FCC RADIO TEST REPORT

FCC ID	**:**	**S9GT750**
Equipment	**:**	**Access point**
Brand Name	**:**	**RUCKUS**
Model Name	**:**	**T750**
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 Jun. 21, 2019 and testing was started from Jun. 21, 2019 and completed on Nov. 08, 2019. 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 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

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History of this test report

Report No.	Version	Description	Issued Date
FR190621001D	01	Initial issue of report	Nov. 13, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 0.31 dB at 5149.500 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 1.32 dB at 0.410 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

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

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> Omni Antenna <Ant. 2> Omni Antenna <Ant. 3> Omni Antenna <Ant. 4> Omni Antenna Bluetooth: Omni Antenna Zigbee: Omni 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	03CH02-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 (Z plane with POE) 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 "*" were 802.11n HT40, 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

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

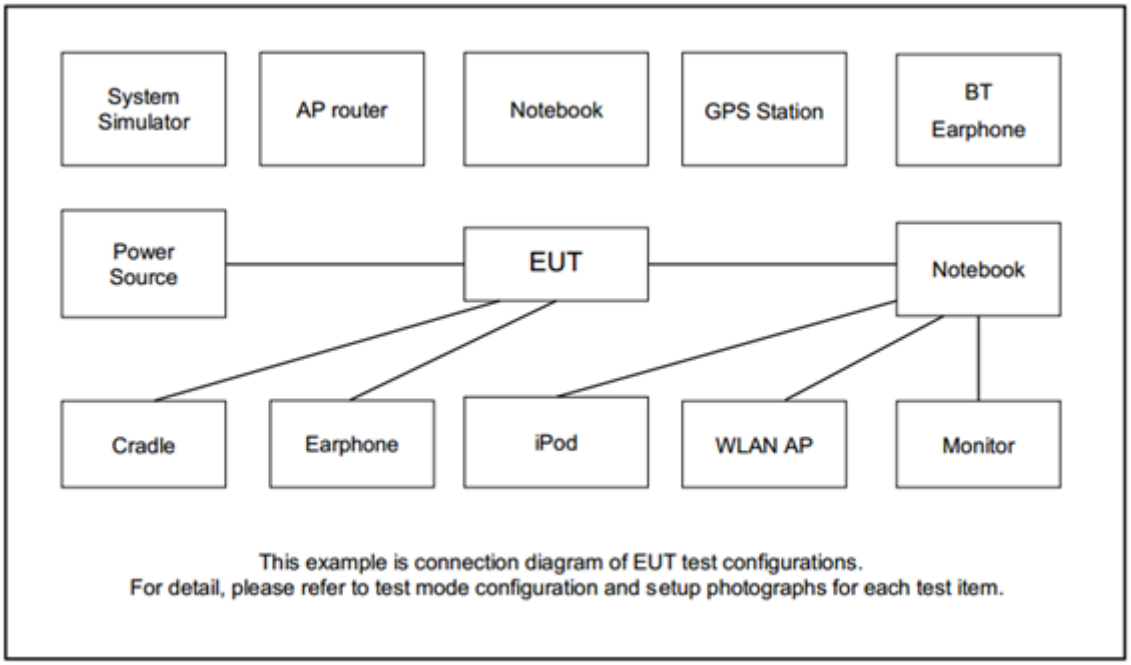
MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link

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

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.	Laptop	HP	15t-cu000	PD97265NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “Putty v0.6” 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.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

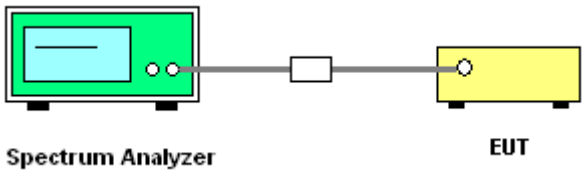
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

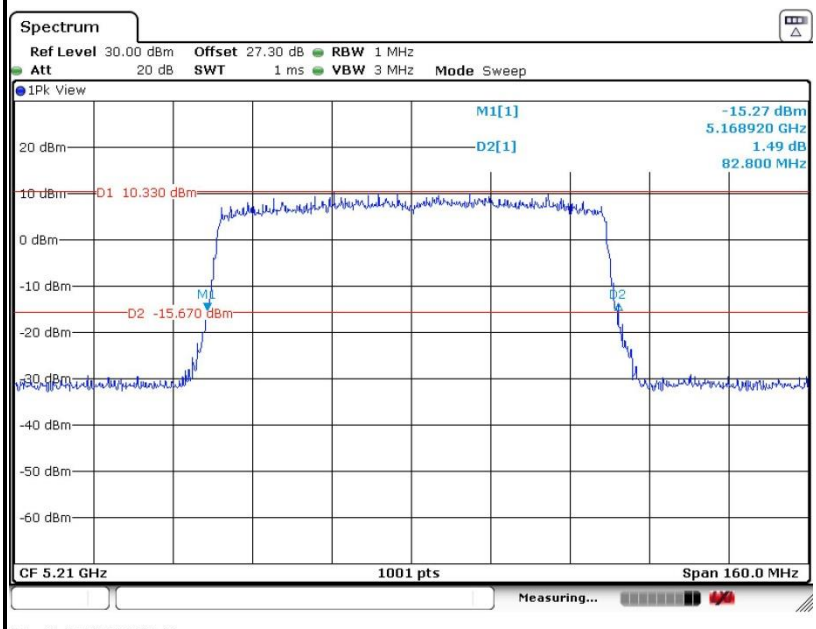
3.1.4 Test Setup



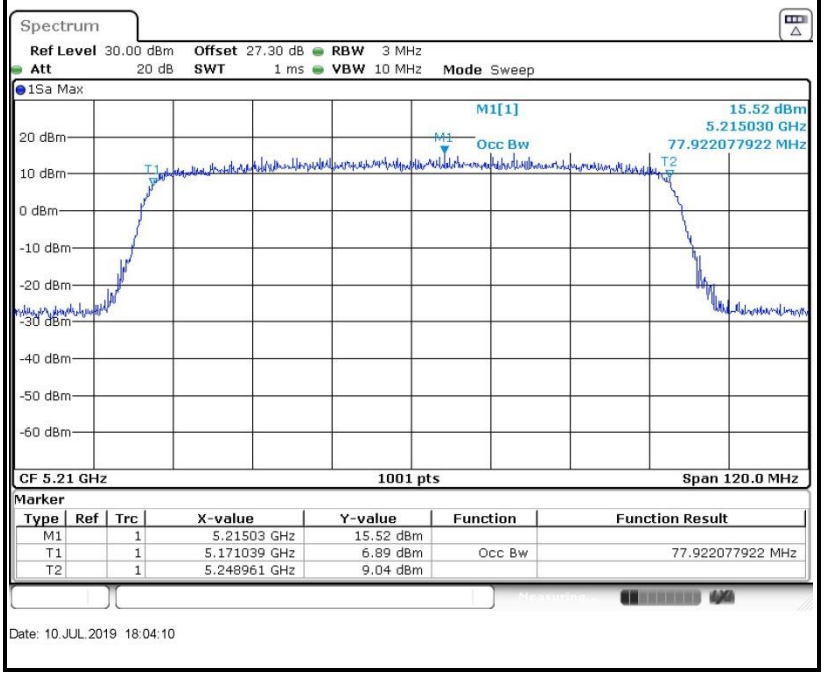
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

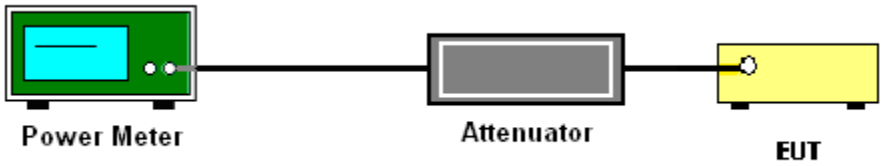
3.2.3 Test Procedures

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

Method PM-G (Measurement using 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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-3 #

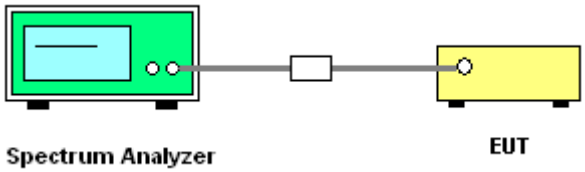
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × 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 4 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

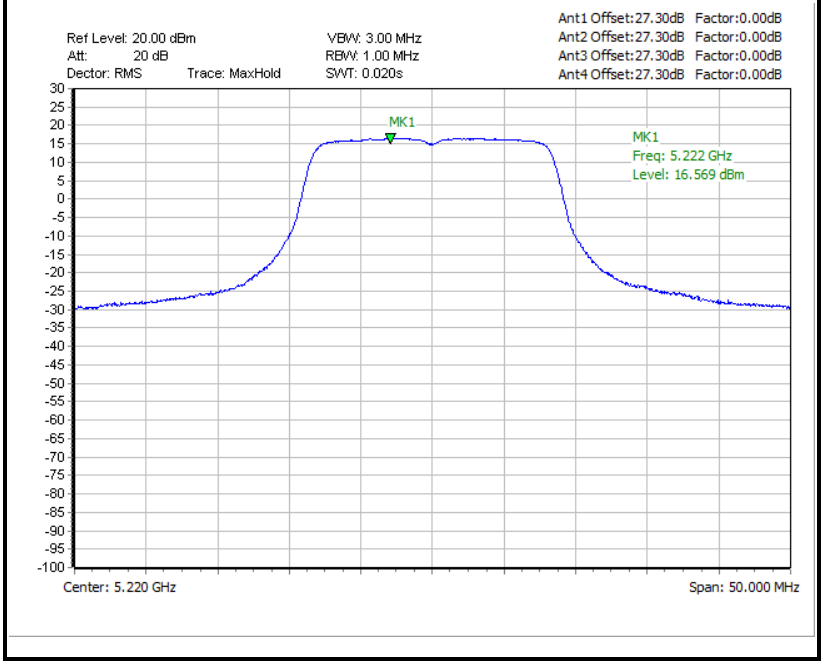
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

(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.

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

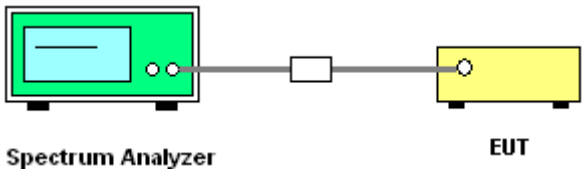
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

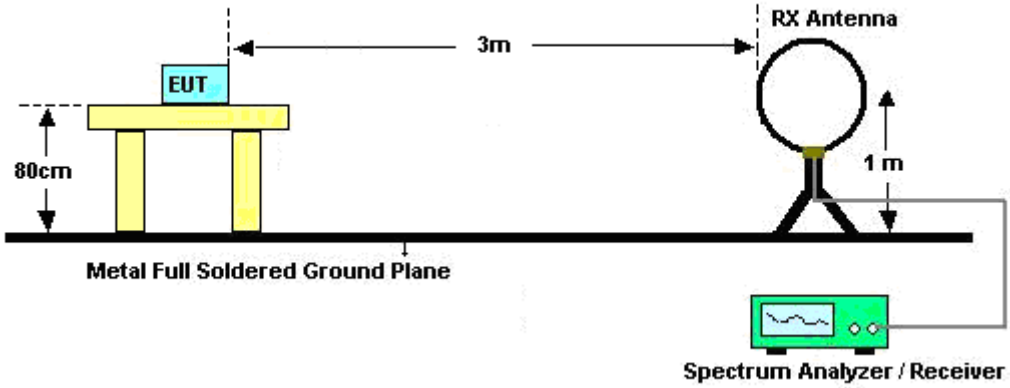
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

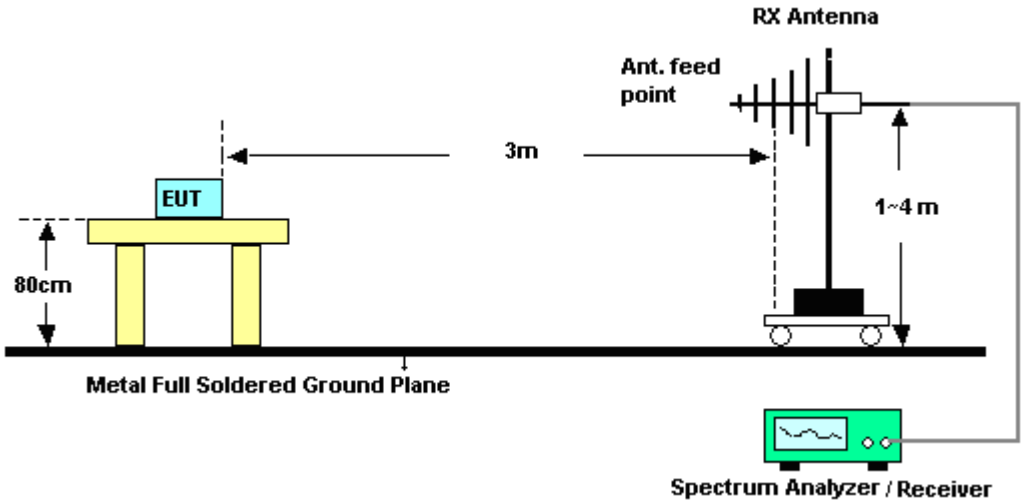
For Conducted Measurement Setup:



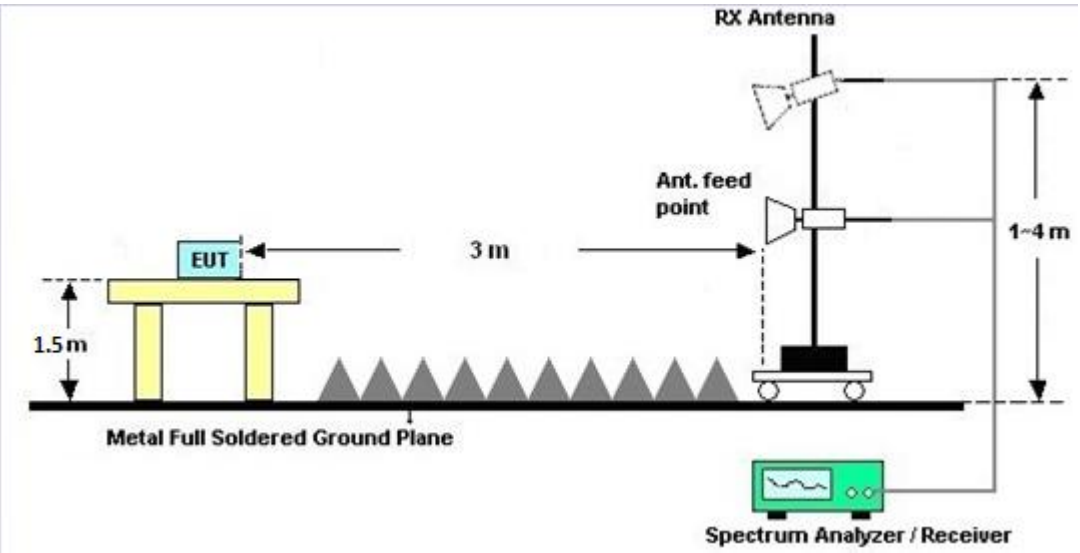
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

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

Please refer to Appendix C and D.

3.4.7 Test Result of Conduced Spurious Emission in the Restricted Band

Please refer to Appendix C and D.

3.4.8 Test Result of Cabinet Radiated Spurious at Band Edges

Please refer to Appendix E and F.

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

Please refer to Appendix E and F.

3.4.10 Duty Cycle

Please refer to Appendix G.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

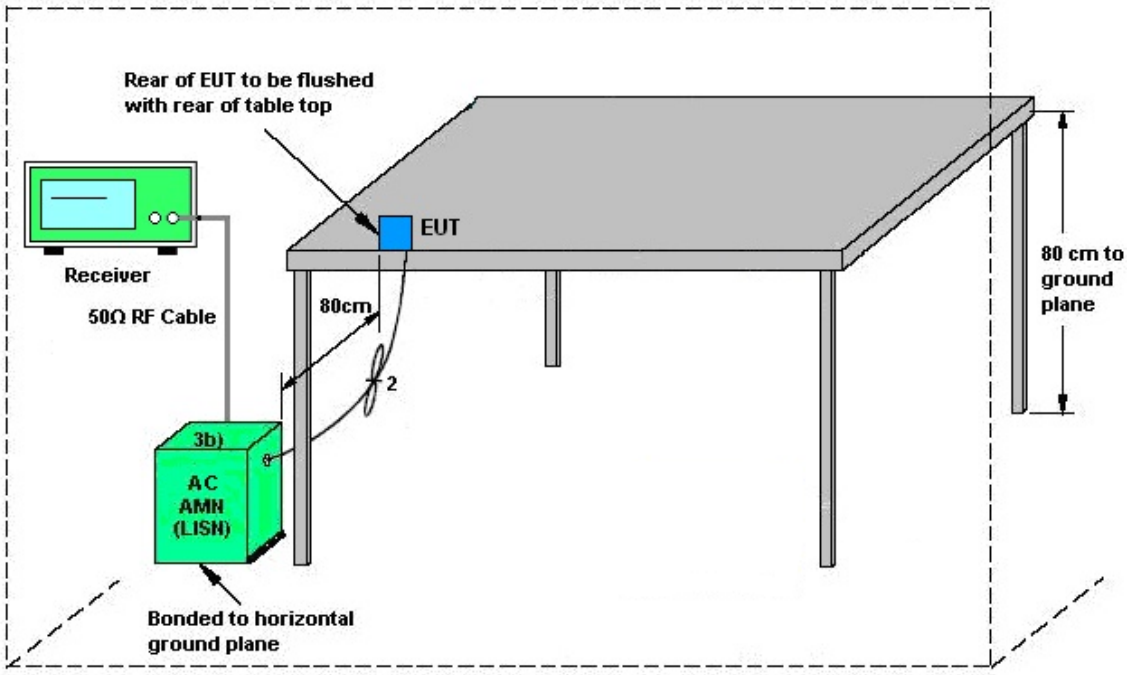
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain “DG” is calculated as following table.

	Ant 1	Ant 2	Ant 3	Ant 4
	(dBi)	(dBi)	(dBi)	(dBi)
Band I	3.40	1.20	1.20	3.40

Band I Antenna	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
1	3.40	3.40	0.00	0.00
2	1.20	1.20	0.00	0.00
3	1.20	1.20	0.00	0.00
4	3.40	3.40	0.00	0.00
1+2	3.40	5.38	0.00	0.00
1+3	3.40	5.38	0.00	0.00
2+3	1.20	4.21	0.00	0.00
1+4	3.40	6.41	0.00	0.41
2+4	3.40	5.38	0.00	0.00
3+4	3.40	5.38	0.00	0.00
1+2+3	3.40	6.77	0.00	0.77
1+2+4	3.40	7.50	0.00	1.50
1+3+4	3.40	7.50	0.00	1.50
2+3+4	3.40	6.77	0.00	0.77
1+2+3+4	3.40	6.41	0.00	0.41

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
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	May 15, 2019	Jun. 21, 2019~ Jul. 27, 2019	May 14, 2020	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	01895	1GHz~18GHz	Jul. 30, 2018	Jun. 21, 2019~ Jul. 27, 2019	Jul. 29, 2019	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	Aug. 02, 2018	Jun. 21, 2019~ Jul. 27, 2019	Aug. 01, 2019	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Sep. 11, 2018	Jun. 21, 2019~ Jul. 27, 2019	Sep. 10, 2019	Radiation (03CH02-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055004	1GHz~18GHz	Jul. 31, 2018	Jun. 21, 2019~ Jul. 27, 2019	Jul. 30, 2019	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Aug. 07, 2018	Jun. 21, 2019~ Jul. 27, 2019	Aug. 06, 2019	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN2	1.2G Low Pass	Aug. 03, 2018	Jun. 21, 2019~ Jul. 27, 2019	Aug. 02, 2019	Radiation (03CH02-CA)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN8	6.75 Highpass	Aug. 03, 2018	Jun. 21, 2019~ Jul. 27, 2019	Aug. 02, 2019	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 21, 2019~ Jul. 27, 2019	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 21, 2019~ Jul. 27, 2019	N/A	Radiation (03CH02-CA)
LISN	TESEQ	NNB51	47407	N/A	Jun. 26, 2019	Aug. 17, 2019	Jun. 25, 2020	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9KHz~7GHz	Jun. 27, 2019	Aug. 17, 2019	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	Aug. 17, 2019	Jun. 10, 2020	Conduction (CO01-CA)
Test Software	Audix E3	6.2009-8-24	RK-002094	N/A	N/A	Aug. 17, 2019	N/A	Conduction (CO01-CA)
Power Meter	Anritsu	ML2495A	1804004	N/A	Aug. 09, 2018	Jul. 03, 2019~ Jul. 12, 2019	Aug. 08, 2019	Conducted (TH01-CA)
Power Sensor	Anritsu	MA2411B	1726149	300MHz~40GHz	Aug. 09, 2018	Jul. 03, 2019~ Jul. 12, 2019	Aug. 08, 2019	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101089	10Hz~40GHz	Aug. 23, 2018	Jul. 03, 2019~ Jul. 12, 2019	Aug. 22, 2019	Conducted (TH01-CA)
Switch Box & RF Cable	EM	EMSW18	SW1070902	N/A	Apr. 07, 2019	Jul. 03, 2019~ Jul. 12, 2019	Apr. 06, 2020	Conducted (TH01-CA)
Power Meter	Anritsu	ML2495A	1804004	N/A	Aug. 14, 2019	Aug. 19, 2019	Aug. 13, 2020	Conducted (TH01-CA)
Power Sensor	Anritsu	MA2411B	1726149	300MHz~40GHz	Aug. 15, 2019	Aug. 19, 2019	Aug. 14, 2020	Conducted (TH01-CA)
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101089	10Hz~40GHz	Aug. 23, 2018	Aug. 19, 2019	Aug. 22, 2019	Conducted (TH01-CA)
Switch Box & RF Cable	EM	EMSW18	SW1070902	N/A	Apr. 07, 2019	Aug. 19, 2019	Apr. 06, 2020	Conducted (TH01-CA)
EMI Test Receiver	Rohde & Schwarz	ESU26	100123	20Hz~26.5GHz	Sep. 04, 2019	Oct. 28, 2019~ Nov. 08, 2019	Sep. 03, 2020	Conducted (TH01-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:	Andrew Van	Temperature:	21~25	°C
Test Date:	2019/7/3~2019/8/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	4	36	5180	21.329	21.03	21.18	21.03	16.43	16.43	16.43	16.43	22.16	22.16	22.16	22.16
11a	6Mbps	4	44	5220	21.029	21.48	20.88	21.03	16.38	16.43	16.48	16.43	22.14	22.16	22.17	22.16
11a	6Mbps	4	48	5240	21.379	21.33	21.18	21.03	16.43	16.43	16.38	16.43	22.16	22.16	22.14	22.16

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	4	36	5180	1+2+3+4	19.67	20.03	19.01	20.23	25.78	30.00	3.40	29.18	-	Pass
11a	6Mbps	4	44	5220	1+2+3+4	21.48	21.86	20.59	22.12	27.57	30.00	3.40	30.97	-	Pass
11a	6Mbps	4	48	5240	1+2+3+4	21.55	21.67	20.39	21.92	27.44	30.00	3.40	30.84	-	Pass
HT20	MCS0	4	36	5180	1+2+3+4	19.60	19.90	18.86	20.32	25.72	30.00	3.40	29.12	-	Pass
HT20	MCS0	4	44	5220	1+2+3+4	21.06	21.36	20.21	21.68	27.13	30.00	3.40	30.53	-	Pass
HT20	MCS0	4	48	5240	1+2+3+4	20.97	21.27	19.87	21.44	26.95	30.00	3.40	30.35	-	Pass
HT40	MCS0	4	38	5190	1+2+3+4	17.36	17.83	16.75	18.26	23.61	30.00	3.40	27.01	-	Pass
HT40	MCS0	4	46	5230	1+2+3+4	22.27	22.54	21.38	22.81	28.30	30.00	3.40	31.70	-	Pass
VHT20	MCS0	4	36	5180	1+2+3+4	19.60	19.81	18.92	20.11	25.65	30.00	3.40	29.05	-	Pass
VHT20	MCS0	4	44	5220	1+2+3+4	20.99	21.21	20.06	21.56	27.01	30.00	3.40	30.41	-	Pass
VHT20	MCS0	4	48	5240	1+2+3+4	21.09	21.14	20.02	21.34	26.95	30.00	3.40	30.35	-	Pass
VHT40	MCS0	4	38	5190	1+2+3+4	17.31	17.73	16.74	18.06	23.51	30.00	3.40	26.91	-	Pass
VHT40	MCS0	4	46	5230	1+2+3+4	22.19	22.43	21.30	22.66	28.19	30.00	3.40	31.59	-	Pass
VHT80	MCS0	4	42	5210	1+2+3+4	17.76	17.89	16.97	18.35	23.79	30.00	3.40	27.19	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
11a	6Mbps	4	36	5180	1+2+3+4	0.30	0.28	0.28	0.30	14.73	16.59	6.41		Pass
11a	6Mbps	4	44	5220	1+2+3+4	0.30	0.28	0.28	0.30	16.57	16.59	6.41		Pass
11a	6Mbps	4	48	5240	1+2+3+4	0.30	0.28	0.28	0.30	16.35	16.59	6.41		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
HE20	MCS0	4	36	5180	22.68	22.53	22.58	22.78	18.93	18.93	18.98	18.93	22.77	22.77	22.78	22.77
HE20	MCS0	4	44	5220	22.83	22.58	22.63	22.53	18.93	18.93	18.98	18.93	22.77	22.77	22.78	22.77
HE20	MCS0	4	48	5240	22.78	22.88	22.68	22.83	18.93	18.93	18.93	18.93	22.77	22.77	22.77	22.77
HE40	MCS0	4	38	5190	41.72	41.72	41.63	41.54	37.96	37.96	37.96	37.96	23.01	23.01	23.01	23.01
HE40	MCS0	4	46	5230	41.72	41.99	42.08	42.17	37.86	37.96	37.96	37.96	23.01	23.01	23.01	23.01
HE80	MCS0	4	42	5210	82.80	82.32	82.16	81.84	77.80	77.92	77.92	77.92	23.01	23.01	23.01	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HE20	MCS0	4	36	5180	1+2+3+4	20.03	20.37	19.26	20.48	26.08	30.00	3.40	29.48	-	Pass
HE20	MCS0	4	44	5220	1+2+3+4	21.24	21.53	20.33	21.81	27.28	30.00	3.40	30.68	-	Pass
HE20	MCS0	4	48	5240	1+2+3+4	21.39	21.43	20.13	21.67	27.22	30.00	3.40	30.62	-	Pass
HE40	MCS0	4	38	5190	1+2+3+4	17.61	17.98	16.95	18.29	23.76	30.00	3.40	27.16	-	Pass
HE40	MCS0	4	46	5230	1+2+3+4	22.43	22.74	21.60	22.93	28.48	30.00	3.40	31.88	-	Pass
HE80	MCS0	4	42	5210	1+2+3+4	18.14	18.32	17.31	18.78	24.19	30.00	3.40	27.59	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
HE20	MCS0	4	36	5180	1+2+3+4	0.22	0.23	0.19	0.22	14.66	16.59	6.41		Pass
HE20	MCS0	4	44	5220	1+2+3+4	0.22	0.23	0.19	0.22	16.28	16.59	6.41		Pass
HE20	MCS0	4	48	5240	1+2+3+4	0.22	0.23	0.19	0.22	16.22	16.59	6.41		Pass
HE40	MCS0	4	38	5190	1+2+3+4	0.23	0.24	0.22	0.25	9.10	16.59	6.41		Pass
HE40	MCS0	4	46	5230	1+2+3+4	0.23	0.24	0.22	0.25	13.85	16.59	6.41		Pass
HE80	MCS0	4	42	5210	1+2+3+4	0.25	0.23	0.22	0.25	6.77	16.59	6.41		Pass

TEST RESULTS DATA
Average Power Table

<Band-edge Unmodulated>

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HE20	MCS0	4	36	5180	1+2+3+4	16.63	17.00	16.17	17.16	22.78	30.00	3.40	26.18	-	Pass
HE20	MCS0	4	44	5220	1+2+3+4	18.58	18.76	17.67	18.83	24.50	30.00	3.40	27.90	-	Pass
HE20	MCS0	4	48	5240	1+2+3+4	18.61	18.78	17.21	18.91	24.45	30.00	3.40	27.85	-	Pass
HE40	MCS0	4	38	5190	1+2+3+4	14.09	14.81	13.36	14.96	20.37	30.00	3.40	23.77	-	Pass
HE40	MCS0	4	46	5230	1+2+3+4	18.67	18.90	17.97	19.50	24.82	30.00	3.40	28.22	-	Pass
HE80	MCS0	4	42	5210	1+2+3+4	14.58	14.91	13.95	15.65	20.84	30.00	3.40	24.24	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
HE20	MCS0	4	36	5180	1+2+3+4	0.19	0.18	0.18	0.17	14.42	16.59	6.41		Pass
HE20	MCS0	4	44	5220	1+2+3+4	0.19	0.18	0.18	0.17	16.22	16.59	6.41		Pass
HE20	MCS0	4	48	5240	1+2+3+4	0.19	0.18	0.18	0.17	16.15	16.59	6.41		Pass
HE40	MCS0	4	38	5190	1+2+3+4	0.23	0.24	0.24	0.26	8.89	16.59	6.41		Pass
HE40	MCS0	4	46	5230	1+2+3+4	0.23	0.24	0.24	0.26	13.29	16.59	6.41		Pass
HE80	MCS0	4	42	5210	1+2+3+4	0.41	0.43	0.46	0.44	5.38	16.59	6.41		Pass

TEST RESULTS DATA
Average Power Table

<Middle Unmodulated>

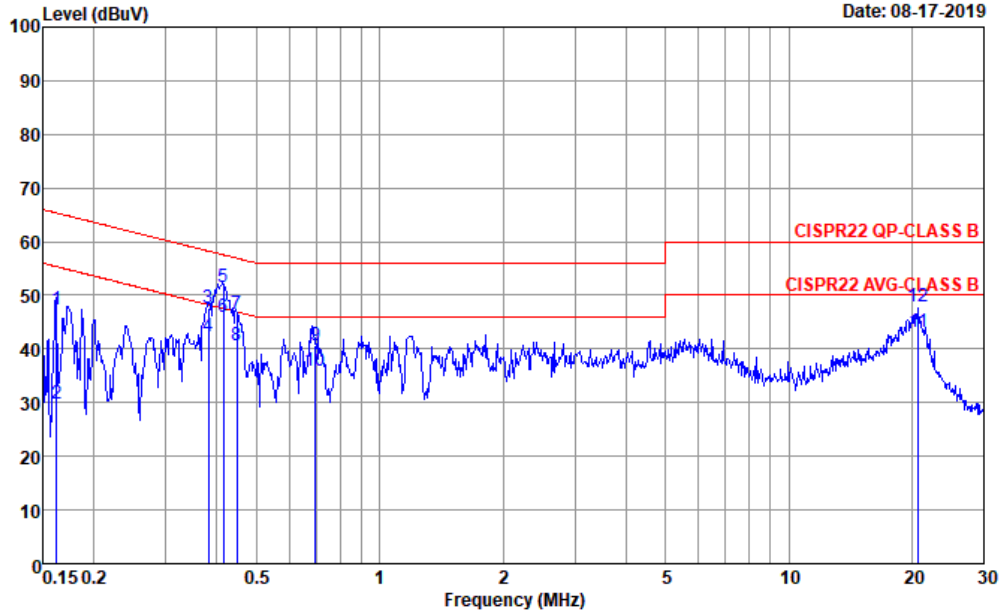
FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
HE20	MCS0	4	36	5180	1+2+3+4	14.14	14.64	13.59	14.91	20.37	30.00	3.40	23.77	-	Pass
HE20	MCS0	4	44	5220	1+2+3+4	19.23	19.59	18.10	19.82	25.25	30.00	3.40	28.65	-	Pass
HE20	MCS0	4	48	5240	1+2+3+4	19.70	19.98	18.47	20.12	25.63	30.00	3.40	29.03	-	Pass
HE40	MCS0	4	38	5190	1+2+3+4	14.26	14.77	13.44	14.92	20.40	30.00	3.40	23.80	-	Pass
HE40	MCS0	4	46	5230	1+2+3+4	18.72	18.96	17.93	19.36	24.79	30.00	3.40	28.19	-	Pass
HE80	MCS0	4	42	5210	1+2+3+4	15.08	15.24	13.99	15.90	21.12	30.00	3.40	24.52	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Duty Factor (dB)				Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/ MHz)	DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 3	Ant 4					
HE20	MCS0	4	36	5180	1+2+3+4	0.46	0.47	0.44	0.46	10.64	16.59	6.41		Pass
HE20	MCS0	4	44	5220	1+2+3+4	0.46	0.47	0.44	0.46	15.83	16.59	6.41		Pass
HE20	MCS0	4	48	5240	1+2+3+4	0.46	0.47	0.44	0.46	16.17	16.59	6.41		Pass
HE40	MCS0	4	38	5190	1+2+3+4	0.28	0.28	0.27	0.27	9.06	16.59	6.41		Pass
HE40	MCS0	4	46	5230	1+2+3+4	0.28	0.28	0.27	0.27	13.43	16.59	6.41		Pass
HE80	MCS0	4	42	5210	1+2+3+4	1.44	1.48	1.48	1.46	6.57	16.59	6.41		Pass

Appendix B. AC Conducted Emission Test Results

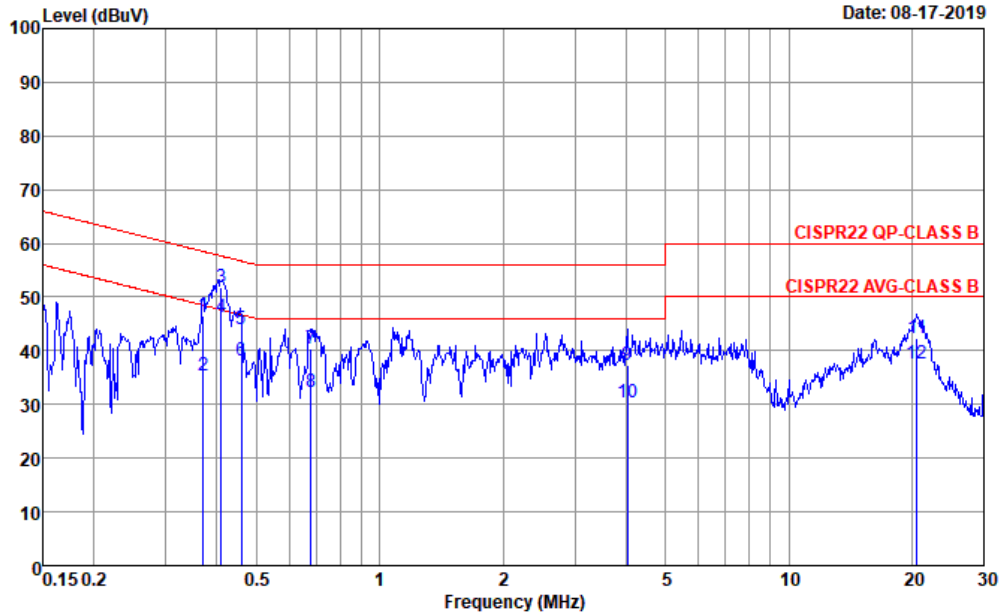
Test Engineer :	Eric Jeng	Temperature :	22~25℃
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Site : CO01-CA
Condition : CISPR22 QP-CLASS B NNB51_L1_USA407 LINE
Project : 190621001
Power : AVR 120Vac/60Hz
Mode : 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Aux Factor	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	dB		
1	0.16	47.36	-18.00	65.36	27.40	9.84	0.06	10.06	QP	LINE
2	0.16	29.84	-25.52	55.36	9.88	9.84	0.06	10.06	Average	LINE
3	0.38	47.77	-10.47	58.24	27.77	9.85	0.07	10.08	QP	LINE
4	0.38	42.32	-5.92	48.24	22.32	9.85	0.07	10.08	Average	LINE
5	0.41	51.62	-5.95	57.57	31.62	9.85	0.07	10.08	QP	LINE
6	0.41	45.85	-1.72	47.57	25.85	9.85	0.07	10.08	Average	LINE
7	0.45	46.63	-10.28	56.91	26.63	9.85	0.07	10.08	QP	LINE
8	0.45	40.79	-6.12	46.91	20.79	9.85	0.07	10.08	Average	LINE
9	0.70	40.65	-15.35	56.00	20.64	9.86	0.07	10.08	QP	LINE
10	0.70	35.81	-10.19	46.00	15.80	9.86	0.07	10.08	Average	LINE
11	20.73	43.24	-16.76	60.00	22.89	10.12	0.14	10.09	QP	LINE
12	20.73	47.78	-2.22	50.00	27.43	10.12	0.14	10.09	Average	LINE

Test Engineer :	Eric Jeng	**Temperature :**	22~25℃
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral



Site : CO01-CA
Condition : CISPR22 QP-CLASS B NNB51_N_USA407 NEUTRAL
Project : 190621001
Power : AVR 120Vac/60Hz
Mode : 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Aux Factor	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	dB		
1	0.37	46.63	-11.87	58.50	26.62	9.86	0.07	10.08	QP	NEUTRAL
2	0.37	35.33	-13.17	48.50	15.32	9.86	0.07	10.08	Average	NEUTRAL
3	0.41	51.70	-5.95	57.65	31.69	9.86	0.07	10.08	QP	NEUTRAL
4	0.41	46.33	-1.32	47.65	26.32	9.86	0.07	10.08	Average	NEUTRAL
5	0.46	44.00	-12.73	56.73	23.98	9.87	0.07	10.08	QP	NEUTRAL
6	0.46	38.23	-8.50	46.73	18.21	9.87	0.07	10.08	Average	NEUTRAL
7	0.68	40.35	-15.65	56.00	20.33	9.87	0.07	10.08	QP	NEUTRAL
8	0.68	32.38	-13.62	46.00	12.36	9.87	0.07	10.08	Average	NEUTRAL
9	4.03	37.31	-18.69	56.00	17.21	9.92	0.10	10.08	QP	NEUTRAL
10	4.03	30.27	-15.73	46.00	10.17	9.92	0.10	10.08	Average	NEUTRAL
11	20.60	42.24	-17.76	60.00	21.89	10.12	0.14	10.09	QP	NEUTRAL
12	20.60	37.67	-12.33	50.00	17.32	10.12	0.14	10.09	Average	NEUTRAL

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)	Grounding Factor (dB)	Peak Avg. (P/A)
802.11ax		5149.24	-33.02	-11.82	-21.2	-54.15	9.42	11.71	0	0	P
HE20		5150	-46.36	-5.16	-41.2	-67.49	9.42	11.71	0	0	A
CH 36	*	5180	25.2	-	-	4.09	9.42	11.69	0	0	P
5180MHz	*	5180	13.78	-	-	-7.33	9.42	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)	Grounding Factor (dB)	Peak Avg. (P/A)
		5145.08	-34.59	-13.39	-21.2	-55.72	9.42	11.71	0	0	P
802.11ax		5148.98	-50.17	-8.97	-41.2	-71.3	9.42	11.71	0	0	A
HE40	*	5190	19.82	-	-	-1.28	9.42	11.68	0	0	P
CH 38	*	5190	8.56	-	-	-12.54	9.42	11.68	0	0	A
5190MHz		5452.16	-38.14	-16.94	-21.2	-59.26	9.42	11.70	0	0	P
		5389.72	-50.06	-8.86	-41.2	-71.19	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5089.44	-26.88	-5.68	-21.2	-48.03	9.42	11.73	0	0	P
802.11ax		5150	-47.65	-6.45	-41.2	-68.78	9.42	11.71	0	0	A
HE80	*	5210	16.87	-	-	-4.23	9.42	11.68	0	0	P
CH 42	*	5210	5.4	-	-	-15.7	9.42	11.68	0	0	A
5210MHz		5350.24	-35.71	-14.51	-21.2	-56.83	9.42	11.70	0	0	P
		5356.68	-47.77	-6.57	-41.2	-67.09	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5145.08	-28.73	-7.53	-21.2	-49.86	9.42	11.71	0	0	P
802.11ax		5105.04	-47.71	-6.51	-41.2	-68.86	9.42	11.73	0	0	A
HE20	*	5180	25.25	-	-	4.14	9.42	11.69	0	0	P
CH 36	*	5180	14.6	-	-	-6.51	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 38 5190MHz		5150	-31.57	-10.37	-21.2	-52.7	9.42	11.71	0	0	P
		5114.92	-49.02	-7.82	-41.2	-70.16	9.42	11.72	0	0	A
	*	5190	18.86	-	-	-2.24	9.42	11.68	0	0	P
	*	5190	9.08	-	-	-12.02	9.42	11.68	0	0	A
		5395.6	-38.22	-17.02	-21.2	-59.35	9.42	11.71	0	0	P
		5387.48	-50.04	-8.84	-41.2	-71.17	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 42 5210MHz		5149.24	-25.26	-4.06	-21.2	-46.39	9.42	11.71	0	0	P
		5134.94	-44.06	-2.86	-41.2	-65.19	9.42	11.71	0	0	A
	*	5210	17.03	-	-	-4.07	9.42	11.68	0	0	P
	*	5210	5.47	-	-	-15.63	9.42	11.68	0	0	A
		5358.36	-34.2	-13	-21.2	-55.33	9.42	11.71	0	0	P
		5370.12	-47.73	-6.53	-41.2	-68.85	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5150	-32.36	-11.16	-21.2	-53.49	9.42	11.71	0	0	P
802.11ax		5149.76	-48.98	-7.78	-41.2	-70.11	9.42	11.71	0	0	A
HE20	*	5180	23.65	-	-	2.54	9.42	11.69	0	0	P
CH 36	*	5180	13.18	-	-	-7.93	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5143.26	-36.63	-15.43	-21.2	-57.76	9.42	11.71	0	0	P
802.11ax		5150	-50.41	-9.21	-41.2	-71.54	9.42	11.71	0	0	A
HE40	*	5190	18.75	-	-	-2.35	9.42	11.68	0	0	P
CH 38	*	5190	7.91	-	-	-13.19	9.42	11.68	0	0	A
5190MHz		5458.88	-38.23	-17.03	-21.2	-59.35	9.42	11.70	0	0	P
		5376.84	-50.26	-9.06	-41.2	-71.38	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5140.92	-32.64	-11.44	-21.2	-53.77	9.42	11.71	0	0	P
802.11ax		5149.24	-47.77	-6.57	-41.2	-68.9	9.42	11.71	0	0	A
HE80	*	5210	15.85	-	-	-5.25	9.42	11.68	0	0	P
CH 42	*	5210	4.66	-	-	-16.44	9.42	11.68	0	0	A
5210MHz		5356.96	-35.85	-14.65	-21.2	-56.97	9.42	11.70	0	0	P
		5351.92	-48.3	-7.1	-41.2	-69.42	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5144.82	-29.84	-8.64	-21.2	-50.97	9.42	11.71	0	0	P
802.11ax		5148.72	-46.38	-5.18	-41.2	-67.51	9.42	11.71	0	0	A
HE20	*	5180	25.75	-	-	4.64	9.42	11.69	0	0	P
CH 36	*	5180	14.69	-	-	-6.42	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 38 5190MHz		5149.76	-32.78	-11.58	-21.2	-53.91	9.42	11.71	0	0	P
		5150	-49.52	-8.32	-41.2	-70.65	9.42	11.71	0	0	A
	*	5190	19.56	-	-	-1.54	9.42	11.68	0	0	P
	*	5190	9.2	-	-	-11.9	9.42	11.68	0	0	A
		5441.8	-37.76	-16.56	-21.2	-58.89	9.42	11.71	0	0	P
		5376	-50.05	-8.85	-41.2	-71.17	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 42 5210MHz		5144.82	-23.12	-1.92	-21.2	-44.25	9.42	11.71	0	0	P
		5150	-43.63	-2.43	-41.2	-64.76	9.42	11.71	0	0	A
	*	5210	18.65	-	-	-2.45	9.42	11.68	0	0	P
	*	5210	7.87	-	-	-13.23	9.42	11.68	0	0	A
		5354.44	-31.26	-10.06	-21.2	-52.38	9.42	11.70	0	0	P
		5376.28	-44.39	-3.19	-41.2	-65.51	9.42	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5145.6	-29.67	-8.47	-21.2	-50.8	9.42	11.71	0	0	P
802.11ax		5148.72	-48.09	-6.89	-41.2	-69.22	9.42	11.71	0	0	A
HE20	*	5180	20.34	-	-	-0.77	9.42	11.69	0	0	P
CH 36	*	5180	10.64	-	-	-10.47	9.42	11.69	0	0	A
5180MHz											
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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Gain	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5148.2	-29.69	-8.49	-21.2	-50.82	9.42	11.71	0	0	P
802.11ax		5148.98	-48.7	-7.5	-41.2	-69.83	9.42	11.71	0	0	A
HE40	*	5190	19.38	-	-	-1.72	9.42	11.68	0	0	P
CH 38	*	5190	8.43	-	-	-12.67	9.42	11.68	0	0	A
5190MHz		5431.44	-37	-15.8	-21.2	-58.13	9.42	11.71	0	0	P
		5395.6	-50.08	-8.88	-41.2	-71.21	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
1		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5089.96	-27.27	-6.07	-21.2	-48.42	9.42	11.73	0	0	P
802.11ax		5117.78	-44.27	-3.07	-41.2	-65.41	9.42	11.72	0	0	A
HE80	*	5210	15.54	-	-	-5.56	9.42	11.68	0	0	P
CH 42	*	5210	6.2	-	-	-14.9	9.42	11.68	0	0	A
5210MHz		5357.24	-34.5	-13.3	-21.2	-55.63	9.42	11.71	0	0	P
		5363.68	-46.27	-5.07	-41.2	-67.4	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5149.76	-21.9	-0.7	-21.2	-43.03	9.42	11.71	0	0	P
802.11ax		5148.98	-47.49	-6.29	-41.2	-68.62	9.42	11.71	0	0	A
HE20	*	5180	21.82	-	-	0.71	9.42	11.69	0	0	P
CH 36	*	5180	11.38	-	-	-9.73	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 38 5190MHz		5147.68	-31.6	-10.4	-21.2	-52.73	9.42	11.71	0	0	P
		5145.08	-46.92	-5.72	-41.2	-68.05	9.42	11.71	0	0	A
	*	5190	20.04	-	-	-1.06	9.42	11.68	0	0	P
	*	5190	8.89	-	-	-12.21	9.42	11.68	0	0	A
		5441.52	-37.9	-16.7	-21.2	-59.03	9.42	11.71	0	0	P
		5393.36	-50.06	-8.86	-41.2	-71.19	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
2		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 42 5210MHz		5150	-23.79	-2.59	-21.2	-44.92	9.42	11.71	0	0	P
		5134.94	-41.57	-0.37	-41.2	-62.7	9.42	11.71	0	0	A
	*	5210	17.21	-	-	-3.89	9.42	11.68	0	0	P
	*	5210	7.1	-	-	-14	9.42	11.68	0	0	A
		5354.16	-33.75	-12.55	-21.2	-54.87	9.42	11.70	0	0	P
		5370.12	-45.85	-4.65	-41.2	-66.97	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5149.76	-33.43	-12.23	-21.2	-54.56	9.42	11.71	0	0	P
802.11ax		5150	-49.04	-7.84	-41.2	-70.17	9.42	11.71	0	0	A
HE20	*	5180	20.46	-	-	-0.65	9.42	11.69	0	0	P
CH 36	*	5180	9.86	-	-	-11.25	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5149.24	-33.74	-12.54	-21.2	-54.87	9.42	11.71	0	0	P
802.11ax		5146.9	-45.32	-4.12	-41.2	-66.45	9.42	11.71	0	0	A
HE40	*	5190	18.58	-	-	-2.52	9.42	11.68	0	0	P
CH 38	*	5190	7.73	-	-	-13.37	9.42	11.68	0	0	A
5190MHz		5455.8	-36.87	-15.67	-21.2	-57.99	9.42	11.70	0	0	P
		5395.32	-50.38	-9.18	-41.2	-71.51	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
3		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5149.76	-24.32	-3.12	-21.2	-45.45	9.42	11.71	0	0	P
802.11ax		5144.3	-43.64	-2.44	-41.2	-64.77	9.42	11.71	0	0	A
HE80	*	5210	15.68	-	-	-5.42	9.42	11.68	0	0	P
CH 42	*	5210	5.65	-	-	-15.45	9.42	11.68	0	0	A
5210MHz		5365.92	-35.32	-14.12	-21.2	-56.45	9.42	11.71	0	0	P
		5365.36	-48.12	-6.92	-41.2	-69.25	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
		5145.86	-22.02	-0.82	-21.2	-41.35	9.42	11.71	0	0	P
802.11ax		5145.6	-47.5	-6.3	-41.2	-66.83	9.42	11.71	0	0	A
HE20	*	5180	21.36	-	-	2.05	9.42	11.69	0	0	P
CH 36	*	5180	11.29	-	-	-8.02	9.42	11.69	0	0	A
5180MHz											
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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 38 5190MHz		5150	-29.95	-8.75	-21.2	-51.08	9.42	11.71	0	0	P
		5146.12	-47.99	-6.79	-41.2	-69.12	9.42	11.71	0	0	A
	*	5190	19.09	-	-	-2.01	9.42	11.68	0	0	P
	*	5190	9.07	-	-	-12.03	9.42	11.68	0	0	A
		5353.32	-38	-16.8	-21.2	-59.12	9.42	11.70	0	0	P
		5391.68	-50.19	-8.99	-41.2	-71.32	9.42	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Gain	Loss	Factor	Factor	Avg.
4		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dBi)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 42 5210MHz		5126.62	-33.5	-12.3	-21.2	-54.64	9.42	11.72	0	0	P
		5113.88	-45.09	-3.89	-41.2	-66.23	9.42	11.72	0	0	A
	*	5210	13	-	-	-8.1	9.42	11.68	0	0	P
	*	5210	3.97	-	-	-17.13	9.42	11.68	0	0	A
		5355.28	-36.99	-15.79	-21.2	-58.11	9.42	11.70	0	0	P
		5362.84	-47.91	-6.71	-41.2	-69.04	9.42	11.71	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b 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%

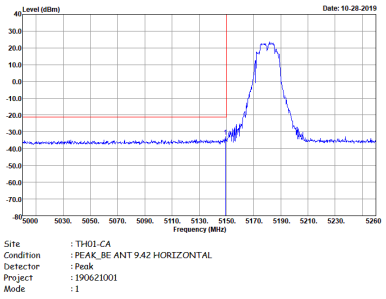
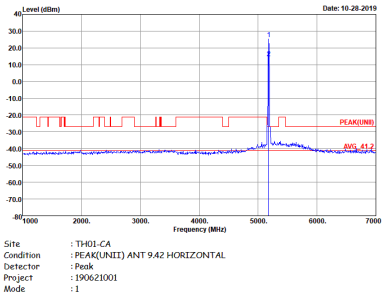
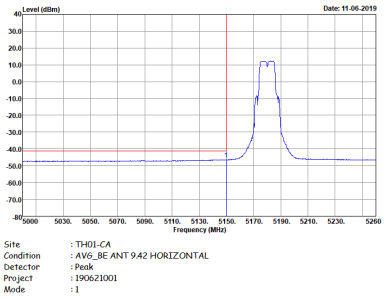
Note symbol

-L	**Low channel location**
-R	**High channel location**

<Band-edge Unmodulated>

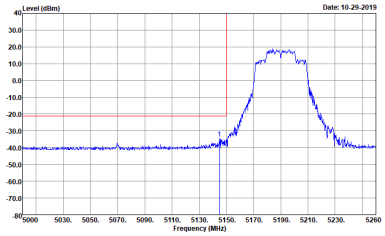
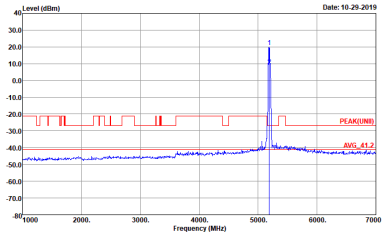
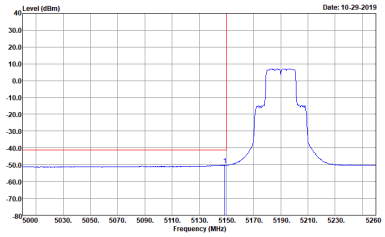
Band 1 - 5150~5250MHz

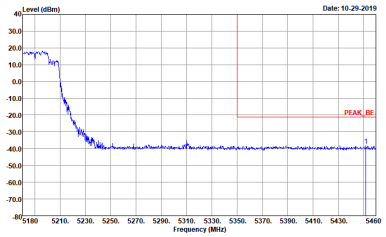
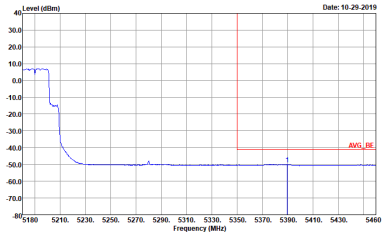
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
1	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

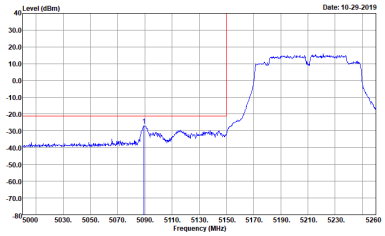
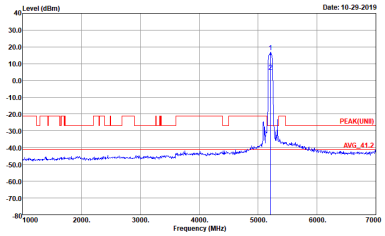
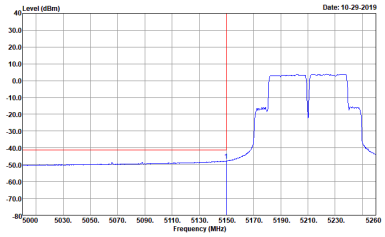
WIFI 802.11ax HE40 (Band Edge)

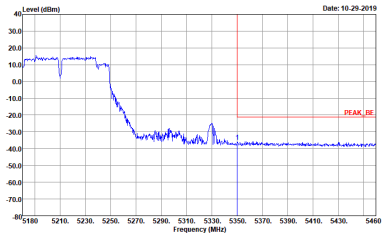
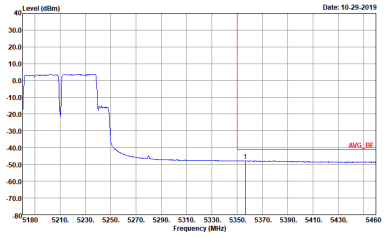
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
1	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

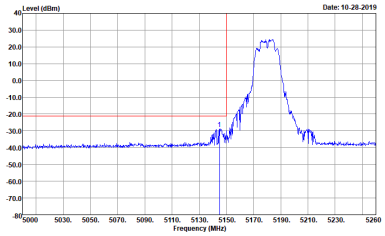
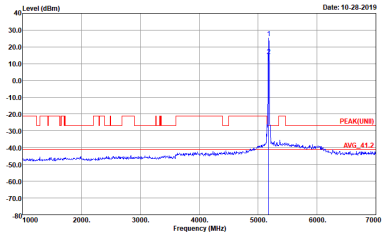
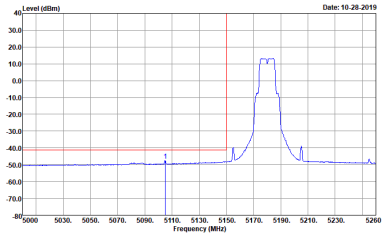
WIFI 802.11ax HE80 (Band Edge)

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

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 7.62 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

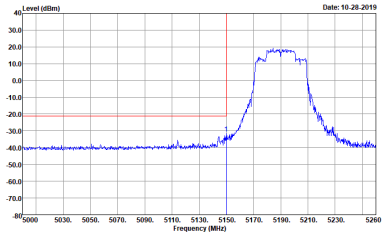
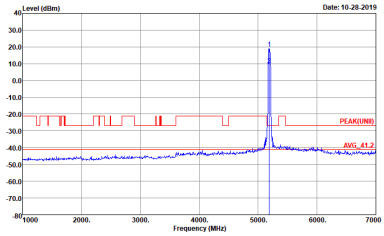
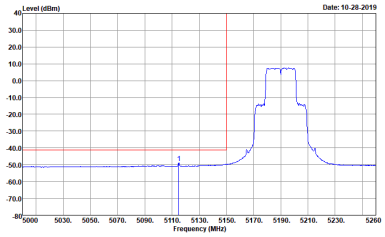
Band 1 - 5150~5250MHz

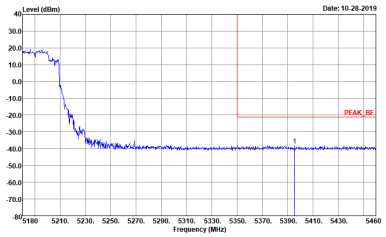
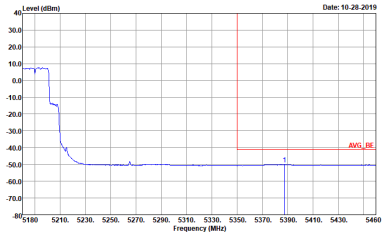
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
2	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

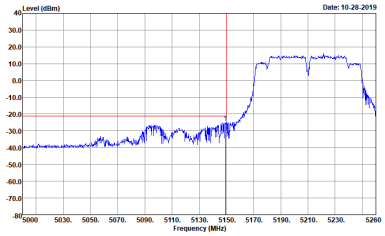
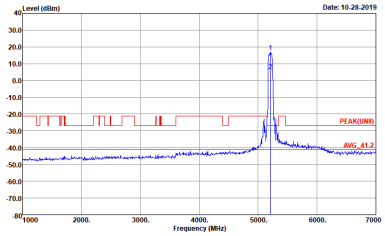
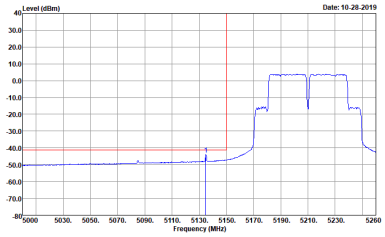
WIFI 802.11ax HE40 (Band Edge)

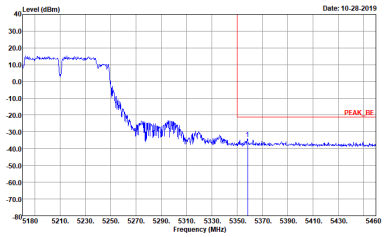
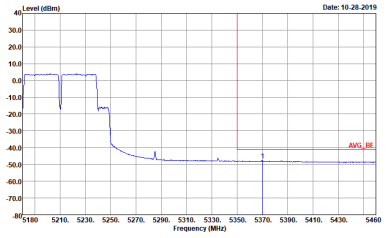
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
2	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

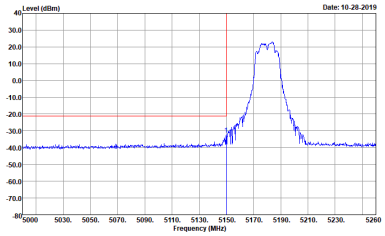
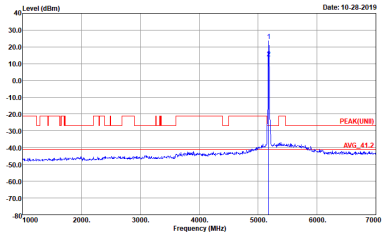
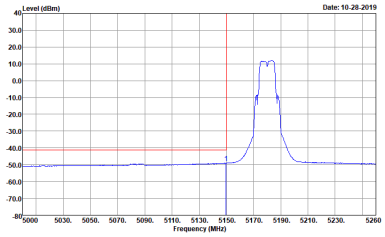
WIFI 802.11ax HE80 (Band Edge)

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

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

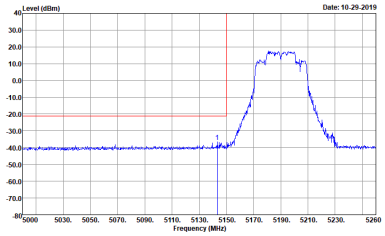
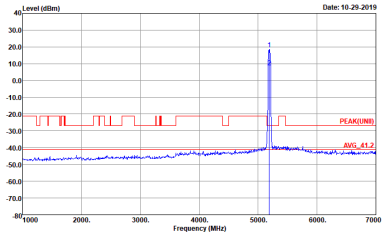
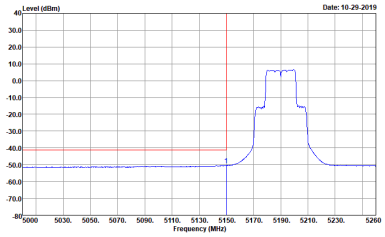
Band 1 - 5150~5250MHz

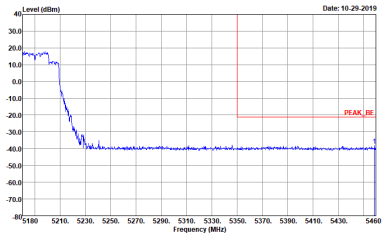
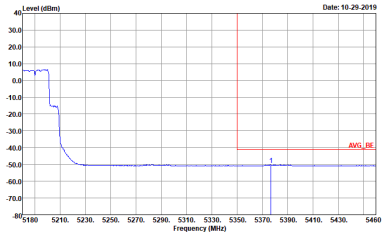
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
3	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

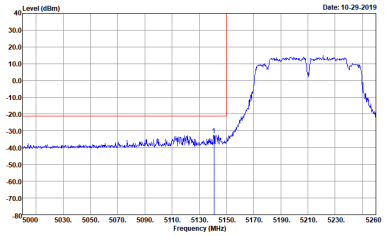
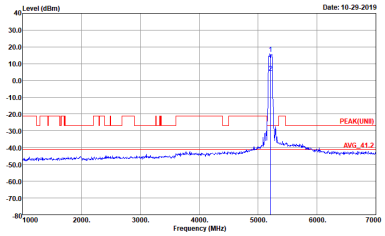
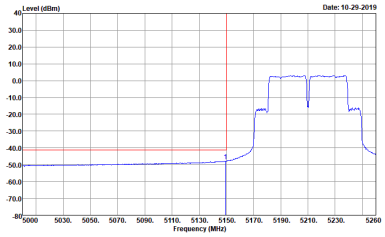
WIFI 802.11ax HE40 (Band Edge)

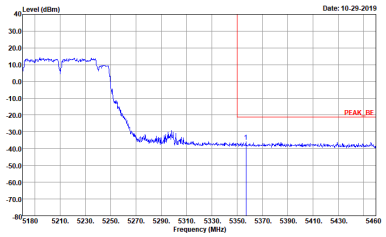
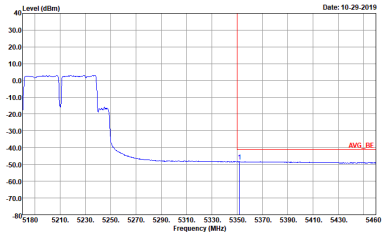
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
3	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

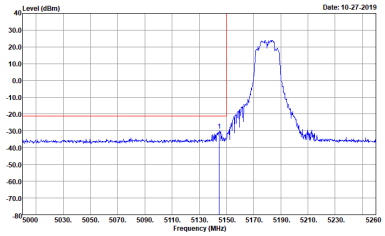
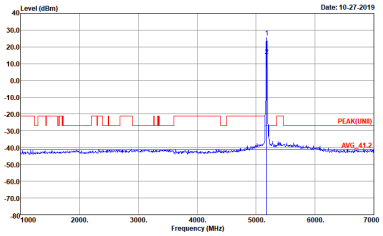
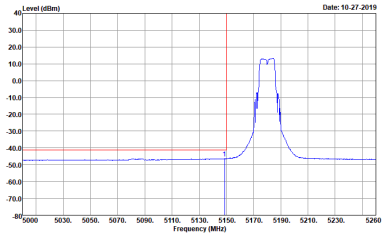
WIFI 802.11ax HE80 (Band Edge)

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

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

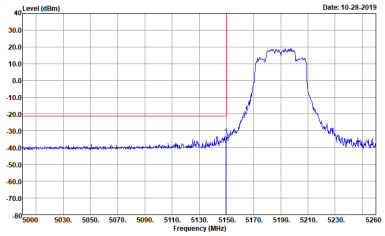
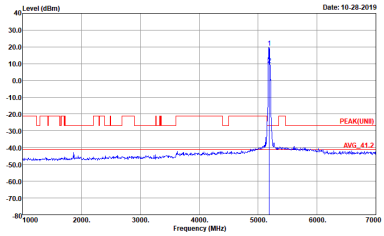
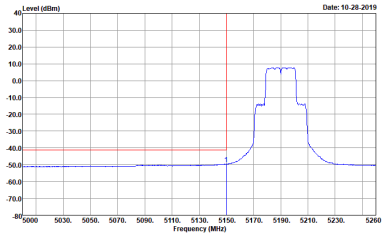
Band 1 - 5150~5250MHz

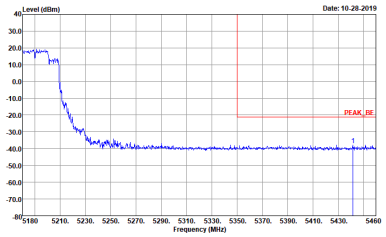
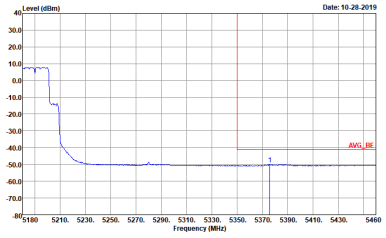
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
4	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

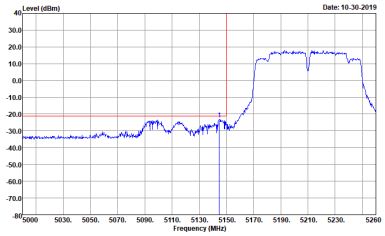
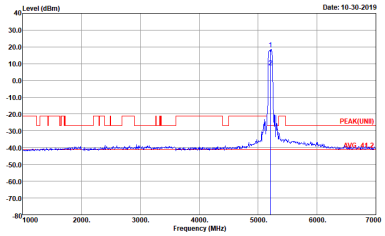
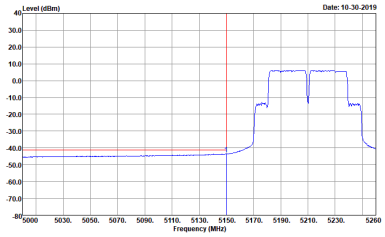
WIFI 802.11ax HE40 (Band Edge)

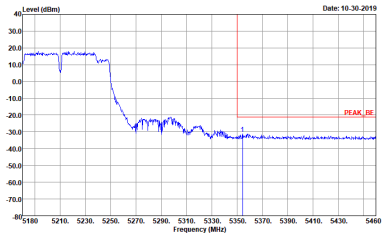
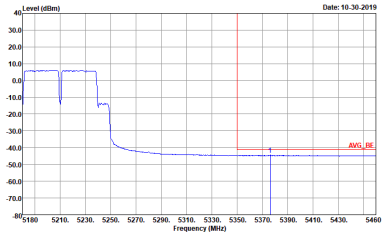
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
4	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

WIFI 802.11ax HE80 (Band Edge)

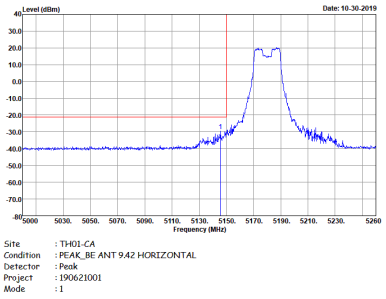
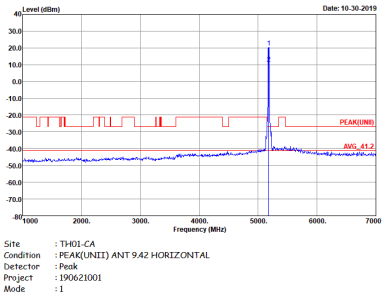
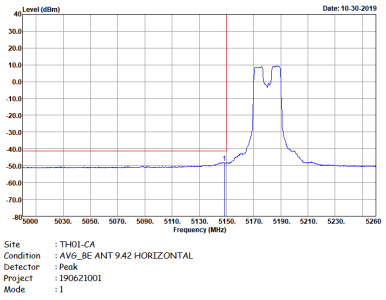
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz	
4	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

<Middle Unmodulated>

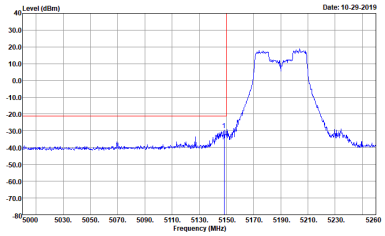
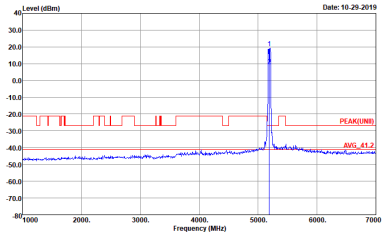
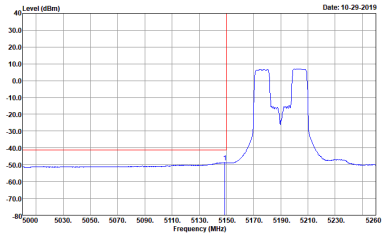
Band 1 - 5150~5250MHz

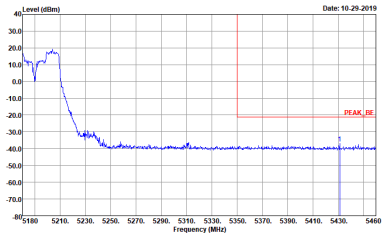
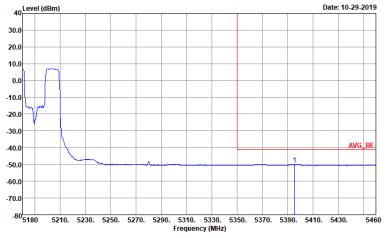
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
1	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

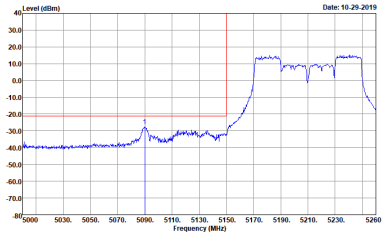
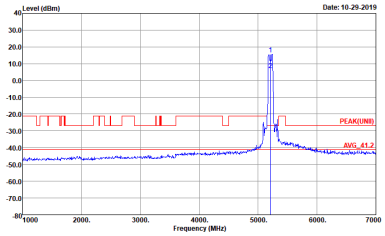
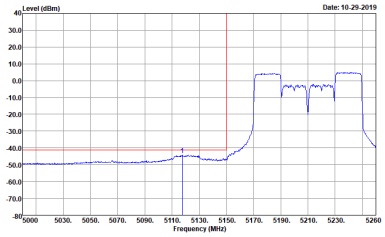
WIFI 802.11ax HE40 (Band Edge)

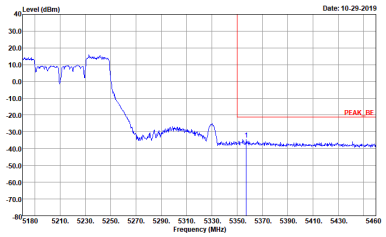
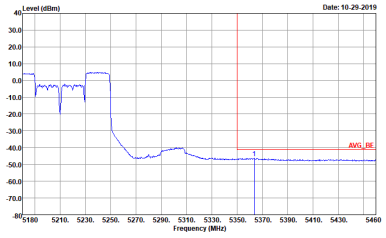
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
1	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

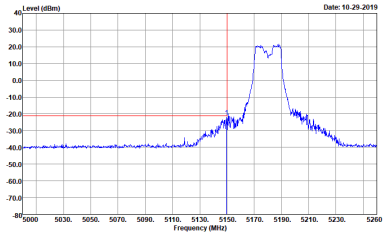
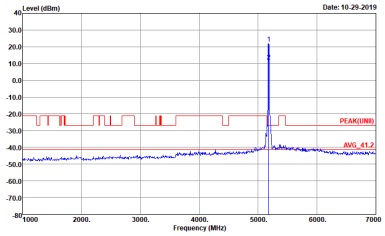
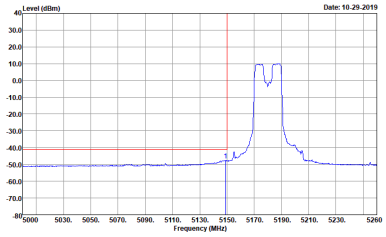
WIFI 802.11ax HE80 (Band Edge)

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

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

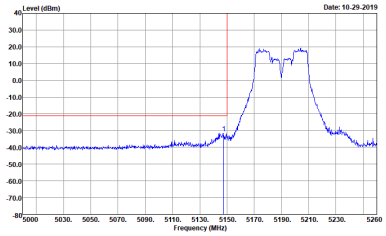
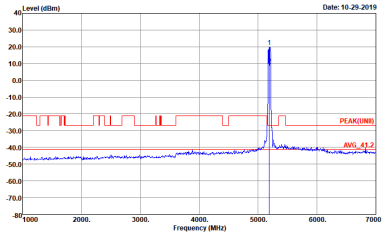
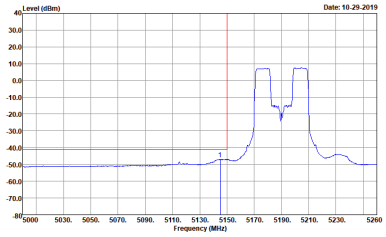
Band 1 - 5150~5250MHz

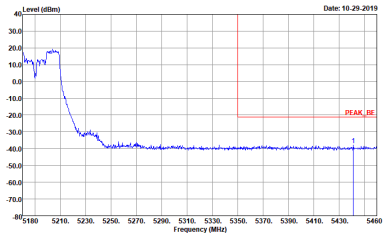
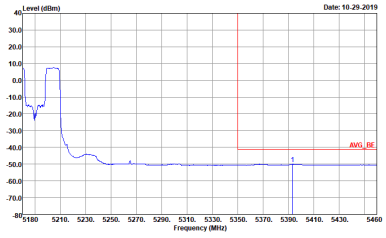
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
2	CSE	Fundamental
Peak		
Avg.		Left blank

Band 1 - 5150~5250MHz

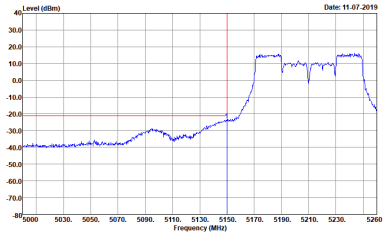
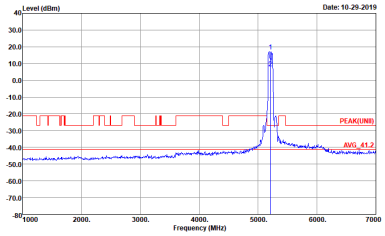
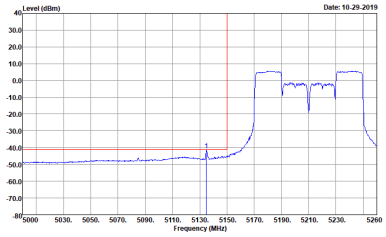
WIFI 802.11ax HE40 (Band Edge)

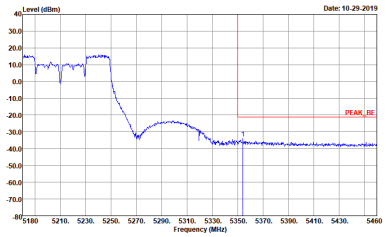
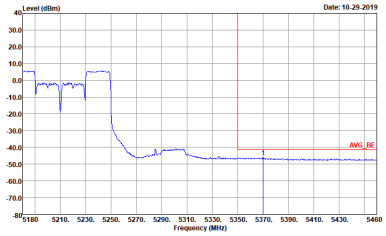
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
2	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

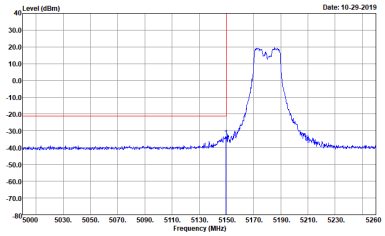
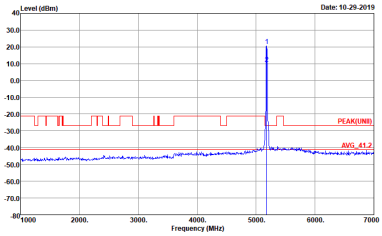
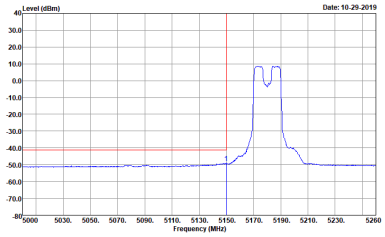
WIFI 802.11ax HE80 (Band Edge)

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

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

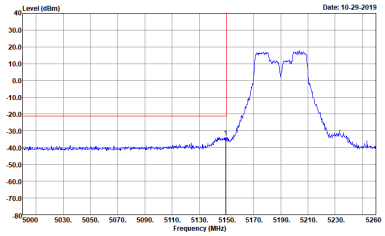
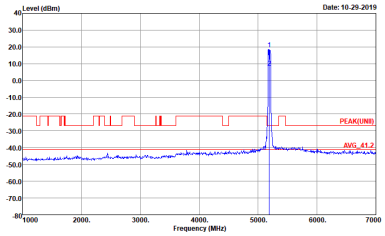
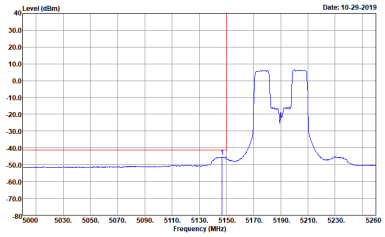
Band 1 - 5150~5250MHz

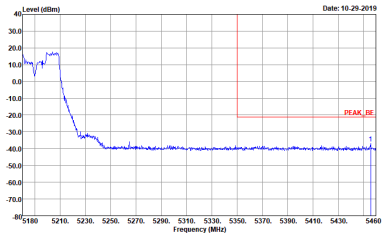
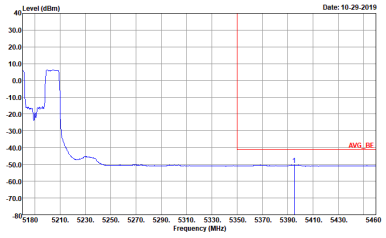
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1	Left blank

Band 1 - 5150~5250MHz

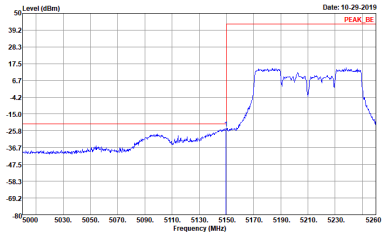
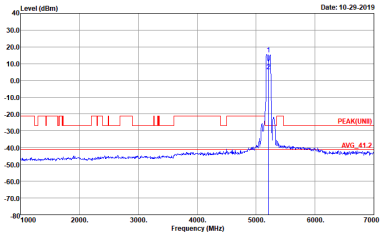
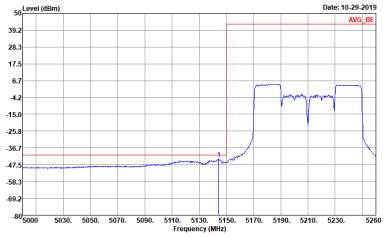
WIFI 802.11ax HE40 (Band Edge)

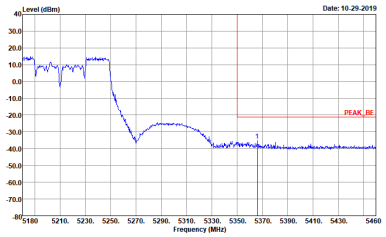
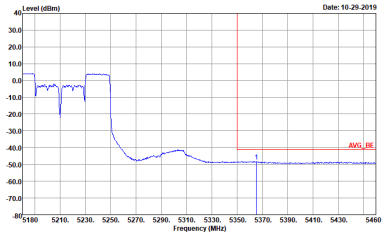
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
3	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank

Band 1 - 5150~5250MHz

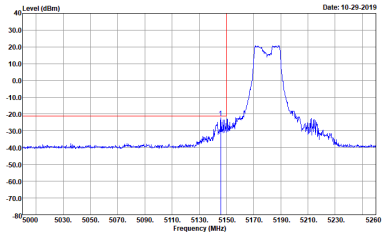
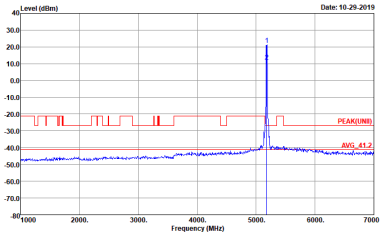
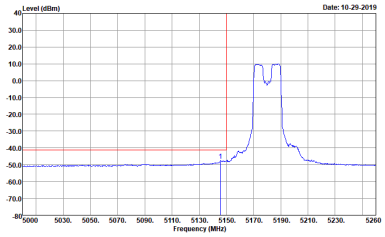
WIFI 802.11ax HE80 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE80 CH42 5210MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

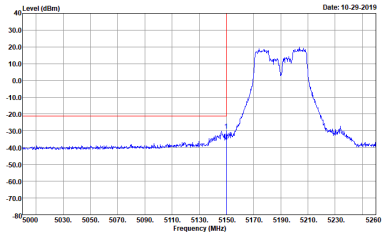
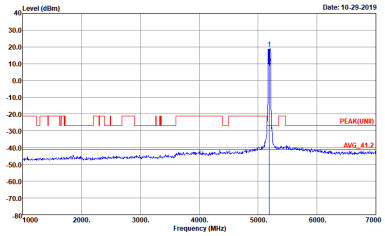
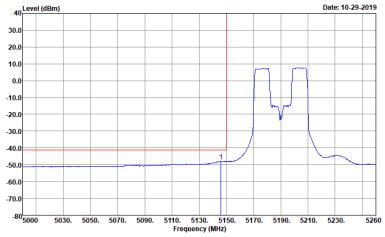
Band 1 - 5150~5250MHz

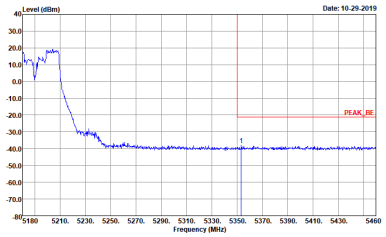
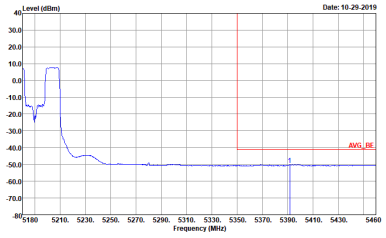
WIFI 802.11ax HE20 (Band Edge)

WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE20 CH36 5180MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE ANT 7.62 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1 Setting : 14.5	 Site : TH01-CA Condition : PEAK(UNII) ANT 7.62 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1 Setting : 14.5
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 7.62 HORIZONTAL Detector : Peak Project : 190621001 Mode : 1 Setting : 14.5	Left blank

Band 1 - 5150~5250MHz

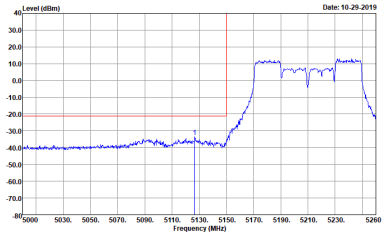
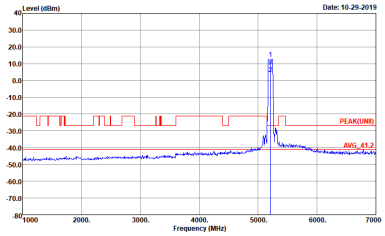
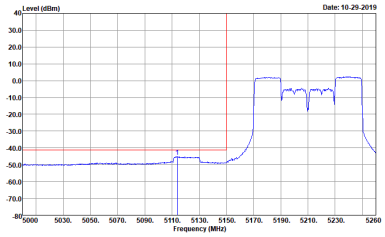
WIFI 802.11ax HE40 (Band Edge)

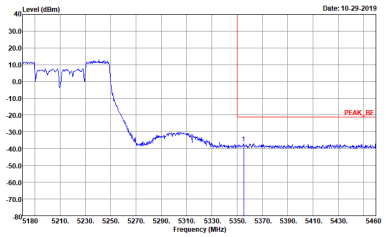
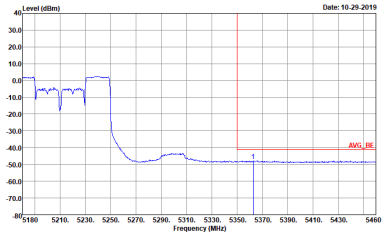
WIFI	Band 1 5150~5250MHz Band Edge	
ANT	802.11ax HE40 CH38 5190MHz	
4	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 5	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	
4	CSE	Fundamental
Peak		
Avg.		Left blank

Peak	 Site : TH01-CA Condition : PEAK_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank
Avg.	 Site : TH01-CA Condition : AVG_BE ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 9	Left blank

Appendix E. Cabinet Radiated Spurious Emission

Test Engineer :	Watt Tseng	Temperature :	22~26°C
		Relative Humidity :	41~49%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	64.62	-9.38	74	52.84	31.69	10.99	30.9	100	233	P	H
		5149.5	53.25	-0.75	54	41.47	31.69	10.99	30.9	100	233	A	H
	*	5180	117.66	-	-	105.77	31.71	11.08	30.9	100	233	P	H
	*	5180	110.21	-	-	98.32	31.71	11.08	30.9	100	233	A	H
													H
													H
		5146.64	60.57	-13.43	74	48.8	31.69	10.98	30.9	300	235	P	V
		5146.64	49.64	-4.36	54	37.87	31.69	10.98	30.9	300	235	A	V
	*	5180	119.43	-	-	107.54	31.71	11.08	30.9	300	235	P	V
	*	5180	112.18	-	-	100.29	31.71	11.08	30.9	300	235	A	V
													V
													V
802.11a CH 44 5220MHz		5147.42	55.74	-18.26	74	43.97	31.69	10.98	30.9	100	244	P	H
		5124.8	47.14	-6.86	54	35.46	31.67	10.92	30.91	100	244	A	H
	*	5220	124.55	-	-	112.56	31.73	11.16	30.9	100	244	P	H
	*	5220	117.16	-	-	105.17	31.73	11.16	30.9	100	244	A	H
		5387.2	56.93	-17.07	74	44.62	31.83	11.37	30.89	100	244	P	H
		5413.24	49.24	-4.76	54	36.88	31.85	11.4	30.89	100	244	A	H
		5141.44	54.23	-19.77	74	42.48	31.68	10.97	30.9	254	245	P	V
		5144.82	46.26	-7.74	54	34.49	31.69	10.98	30.9	254	245	A	V
	*	5220	122.52	-	-	110.53	31.73	11.16	30.9	254	245	P	V
	*	5220	115.1	-	-	103.11	31.73	11.16	30.9	254	245	A	V
		5416.04	56.66	-17.34	74	44.3	31.85	11.4	30.89	254	245	P	V
		5408.48	48.56	-5.44	54	36.2	31.85	11.4	30.89	254	245	A	V

802.11a CH 48 5240MHz		5042.9	55.37	-18.63	74	43.97	31.63	10.68	30.91	100	244	P	H
		5139.1	47.09	-6.91	54	35.35	31.68	10.96	30.9	100	244	A	H
	*	5240	125.46	-	-	113.43	31.74	11.19	30.9	100	244	P	H
	*	5240	118.34	-	-	106.31	31.74	11.19	30.9	100	244	A	H
		5425.28	57.03	-16.97	74	44.65	31.86	11.41	30.89	100	244	P	H
		5426.4	50.04	-3.96	54	37.66	31.86	11.41	30.89	100	244	A	H
		5139.36	55.06	-18.94	74	43.32	31.68	10.96	30.9	250	241	P	V
		5142.48	46.72	-7.28	54	34.96	31.69	10.97	30.9	250	241	A	V
	*	5240	124.51	-	-	112.48	31.74	11.19	30.9	250	241	P	V
	*	5240	117.14	-	-	105.11	31.74	11.19	30.9	250	241	A	V
		5431.44	57.3	-16.7	74	44.92	31.86	11.41	30.89	250	241	P	V
		5429.76	49.1	-4.9	54	36.72	31.86	11.41	30.89	250	241	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	56.27	-11.93	68.2	58.94	39.38	16.45	58.5	100	0	P	H
		15540	46.04	-27.96	74	49.18	37.93	20.17	61.24	100	0	P	H
													H
													H
		10360	55.7	-12.5	68.2	58.37	39.38	16.45	58.5	100	0	P	V
		15540	45.18	-28.82	74	48.32	37.93	20.17	61.24	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	67.57	-0.63	68.2	70.18	39.5	16.51	58.62	184	244	P	H
		15660	47.23	-26.77	74	50.33	37.71	20.27	61.08	100	0	P	H
													H
													H
		10440	65.64	-2.56	68.2	68.25	39.5	16.51	58.62	100	150	P	V
		15660	46.77	-27.23	74	49.87	37.71	20.27	61.08	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	67.51	-0.69	68.2	70.08	39.57	16.53	58.67	392	150	P	H
		15720	47.47	-26.53	74	50.54	37.6	20.32	60.99	100	0	P	H
													H
													H
		10480	67.11	-1.09	68.2	69.68	39.57	16.53	58.67	261	147	P	V
		15720	46.8	-27.2	74	49.87	37.6	20.32	60.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.72	60.26	-13.74	74	48.48	31.69	10.99	30.9	300	234	P	H
		5149.24	53.29	-0.71	54	41.51	31.69	10.99	30.9	300	234	A	H
	*	5180	120.53	-	-	108.64	31.71	11.08	30.9	300	234	P	H
	*	5180	113.41	-	-	101.52	31.71	11.08	30.9	300	234	A	H
802.11ax													H
VHT20													H
CH 36		5142.22	61.66	-12.34	74	49.9	31.69	10.97	30.9	249	239	P	V
5180MHz		5143.52	50.64	-3.36	54	38.88	31.69	10.97	30.9	249	239	A	V
	*	5180	123.83	-	-	111.94	31.71	11.08	30.9	249	239	P	V
	*	5180	112.41	-	-	100.52	31.71	11.08	30.9	249	239	A	V
													V
													V
		5148.46	55.79	-18.21	74	44.01	31.69	10.99	30.9	100	243	P	H
		5149.5	48.81	-5.19	54	37.03	31.69	10.99	30.9	100	243	A	H
	*	5220	127.91	-	-	115.92	31.73	11.16	30.9	100	243	P	H
	*	5220	117.24	-	-	105.25	31.73	11.16	30.9	100	243	A	H
802.11ax		5421.08	59.06	-14.94	74	46.7	31.85	11.4	30.89	100	243	P	H
VHT20		5407.08	50.15	-3.85	54	37.81	31.84	11.39	30.89	100	243	A	H
CH 44		5148.2	54.73	-19.27	74	42.95	31.69	10.99	30.9	100	127	P	V
5220MHz		5147.94	46.34	-7.66	54	34.56	31.69	10.99	30.9	100	127	A	V
	*	5220	125.36	-	-	113.37	31.73	11.16	30.9	100	127	P	V
	*	5220	115.9	-	-	103.91	31.73	11.16	30.9	100	127	A	V
		5409.6	54.81	-19.19	74	42.45	31.85	11.4	30.89	100	127	P	V
		5409.32	47.15	-6.85	54	34.79	31.85	11.4	30.89	100	127	A	V

		5059.02	55.32	-18.68	74	43.87	31.64	10.72	30.91	100	243	P	H
		5150	46.3	-7.7	54	34.52	31.69	10.99	30.9	100	243	A	H
	*	5240	125.52	-	-	113.49	31.74	11.19	30.9	100	243	P	H
	*	5240	114.61	-	-	102.58	31.74	11.19	30.9	100	243	A	H
802.11ax		5433.12	57.15	-16.85	74	44.77	31.86	11.41	30.89	100	243	P	H
VHT20		5426.12	48.67	-5.33	54	36.29	31.86	11.41	30.89	100	243	A	H
CH 48		5097.24	53.6	-20.4	74	42.01	31.66	10.84	30.91	215	230	P	V
5240MHz		5149.5	45	-9	54	33.22	31.69	10.99	30.9	215	230	A	V
	*	5240	121.92	-	-	109.89	31.74	11.19	30.9	215	230	P	V
	*	5240	111.84	-	-	99.81	31.74	11.19	30.9	215	230	A	V
		5409.04	54.01	-19.99	74	41.65	31.85	11.4	30.89	215	230	P	V
		5439.28	46.32	-7.68	54	33.93	31.86	11.42	30.89	215	230	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	55.96	-12.24	68.2	58.63	39.38	16.45	58.5	100	0	P	H
		15540	45.22	-28.78	74	48.36	37.93	20.17	61.24	100	0	P	H
802.11ax													H
VHT20													H
CH 36		10360	54	-14.2	68.2	56.67	39.38	16.45	58.5	100	0	P	V
5180MHz		15540	45.24	-28.76	74	48.38	37.93	20.17	61.24	100	0	P	V
													V
													V
		10440	67.4	-0.8	68.2	70.01	39.5	16.51	58.62	100	222	P	H
		15660	46.29	-27.71	74	49.39	37.71	20.27	61.08	100	0	P	H
802.11ax													H
VHT20													H
CH 44		10440	66.38	-1.82	68.2	68.99	39.5	16.51	58.62	176	219	P	V
5220MHz		15660	45.15	-28.85	74	48.25	37.71	20.27	61.08	100	0	P	V
													V
													V
		10480	63.74	-4.46	68.2	66.31	39.57	16.53	58.67	200	251	P	H
		10480	52.87	-1.13	54	55.44	39.57	16.53	58.67	200	251	A	H
802.11ax		15720	46.08	-27.92	74	49.15	37.6	20.32	60.99	100	0	P	H
VHT20													H
CH 48		10480	65.75	-2.45	68.2	68.32	39.57	16.53	58.67	400	148	P	V
5240MHz		10480	53.21	-0.79	54	55.78	39.57	16.53	58.67	400	148	A	V
		15720	45.4	-28.6	74	48.47	37.6	20.32	60.99	100	0	P	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5142.74	60.47	-13.53	74	48.71	31.69	10.97	30.9	100	242	P	H
		5149.5	52.84	-1.16	54	41.06	31.69	10.99	30.9	100	242	A	H
	*	5190	119.46	-	-	107.54	31.71	11.11	30.9	100	242	P	H
	*	5190	108.06	-	-	96.14	31.71	11.11	30.9	100	242	A	H
802.11ax		5440.96	54.14	-19.86	74	41.75	31.86	11.42	30.89	100	242	P	H
VHT40		5393.36	44.76	-9.24	54	32.43	31.84	11.38	30.89	100	242	A	H
CH 38		5136.5	57.56	-16.44	74	45.83	31.68	10.95	30.9	391	236	P	V
5190MHz		5137.8	47.52	-6.48	54	35.78	31.68	10.96	30.9	391	236	A	V
	*	5190	116.05	-	-	104.16	31.71	11.08	30.9	391	236	P	V
	*	5190	106.11	-	-	94.22	31.71	11.08	30.9	391	236	A	V
		5366.2	52.33	-21.67	74	40.06	31.82	11.35	30.9	391	236	P	V
		5388.04	43.74	-10.26	54	31.42	31.83	11.38	30.89	391	236	A	V
		5142.48	65.3	-8.7	74	53.54	31.69	10.97	30.9	100	245	P	H
		5149.5	53.69	-0.31	54	41.91	31.69	10.99	30.9	100	245	A	H
	*	5230	120.33	-	-	108.31	31.74	11.18	30.9	100	245	P	H
	*	5230	110.54	-	-	98.52	31.74	11.18	30.9	100	245	A	H
802.11ax		5414.08	56.56	-17.44	74	44.2	31.85	11.4	30.89	100	245	P	H
VHT40		5433.12	47.95	-6.05	54	35.57	31.86	11.41	30.89	100	245	A	H
CH 46		5132.86	57.57	-16.43	74	45.85	31.68	10.94	30.9	256	123	P	V
5230MHz		5150	49.6	-4.4	54	37.82	31.69	10.99	30.9	256	123	A	V
	*	5230	120.91	-	-	108.89	31.74	11.18	30.9	256	123	P	V
	*	5230	111.51	-	-	99.49	31.74	11.18	30.9	256	123	A	V
		5407.36	56.96	-17.04	74	44.61	31.84	11.4	30.89	256	123	P	V
		5427.24	47.54	-6.46	54	35.16	31.86	11.41	30.89	256	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	49.72	-18.48	68.2	52.37	39.41	16.47	58.53	100	0	P	H
		15570	43.95	-30.05	74	47.09	37.87	20.19	61.2	100	0	P	H
802.11ax													H
VHT40													H
CH 38		10380	48.36	-19.84	68.2	51.01	39.41	16.47	58.53	100	0	P	V
5190MHz		15570	44.6	-29.4	74	47.74	37.87	20.19	61.2	100	0	P	V
													V
													V
		10460	66	-2.2	68.2	68.59	39.54	16.51	58.64	180	242	P	H
		15960	44.54	-29.46	74	47.52	37.17	20.51	60.66	100	0	P	H
802.11ax													H
VHT40													H
CH 46		10460	64.47	-3.73	68.2	67.06	39.54	16.51	58.64	368	149	P	V
5230MHz		15960	44.73	-29.27	74	47.71	37.17	20.51	60.66	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ax VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax VHT80 CH 42 5210MHz		5146.38	61.25	-12.75	74	49.48	31.69	10.98	30.9	277	235	P	H
		5146.38	53.35	-0.65	54	41.58	31.69	10.98	30.9	277	235	A	H
	*	5210	116.8	-	-	104.82	31.73	11.15	30.9	277	235	P	H
	*	5210	105.73	-	-	93.75	31.73	11.15	30.9	277	235	A	H
		5444.88	53.63	-20.37	74	41.23	31.87	11.42	30.89	277	235	P	H
		5351.64	45.06	-8.94	54	32.82	31.81	11.33	30.9	277	235	A	H
		5140.4	58.29	-15.71	74	46.55	31.68	10.96	30.9	113	133	P	V
		5140.4	51.05	-2.95	54	39.31	31.68	10.96	30.9	113	133	A	V
	*	5210	114.59	-	-	102.61	31.73	11.15	30.9	113	133	P	V
	*	5210	103.38	-	-	91.4	31.73	11.15	30.9	113	133	A	V
		5437.04	52.52	-21.48	74	40.13	31.86	11.42	30.89	113	133	P	V
		5414.08	43.7	-10.3	54	31.34	31.85	11.4	30.89	113	133	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 VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	48.37	-19.83	68.2	50.99	39.47	16.5	58.59	100	0	P	H
		15630	44.66	-29.34	74	47.77	37.77	20.24	61.12	100	0	P	H
802.11ax													H
VHT80													H
CH 42		10420	48.61	-19.59	68.2	51.23	39.47	16.5	58.59	100	0	P	V
5210MHz		15630	45.62	-28.38	74	48.73	37.77	20.24	61.12	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 VHT20 (LF @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax VHT20 LF		86.26	25.47	-14.53	40	42.05	14.23	1.63	32.44	-	-	P	H
		120.21	30.88	-12.62	43.5	44.03	17.52	1.75	32.42	100	0	P	H
		182.29	30.8	-12.7	43.5	46.1	14.9	2.21	32.41	-	-	P	H
		479.11	27.66	-18.34	46	33	23.6	3.6	32.54	-	-	P	H
		742.95	30.08	-15.92	46	29.9	28.12	4.46	32.4	-	-	P	H
		955.38	33.08	-12.92	46	28.24	30.91	5.05	31.12	-	-	P	H
													H
													H
													H
													H
													H
													H
		85.29	31.09	-8.91	40	47.78	14.13	1.63	32.45	-	-	P	V
		122.15	36.02	-7.48	43.5	49.06	17.6	1.78	32.42	100	0	P	V
		183.26	24.17	-19.33	43.5	39.47	14.9	2.21	32.41	-	-	P	V
		346.22	23.36	-22.64	46	32.55	20.35	2.9	32.44	-	-	P	V
		779.81	31.2	-14.8	46	30.82	28.1	4.55	32.27	-	-	P	V
		954.41	32.86	-13.14	46	28.06	30.89	5.04	31.13	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(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 F. Cabinet Radiated Spurious Emission Plots

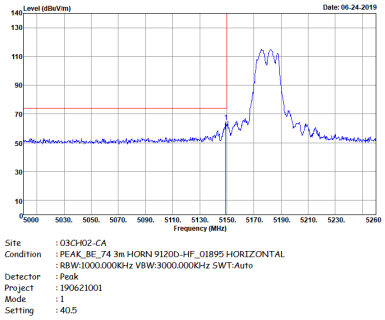
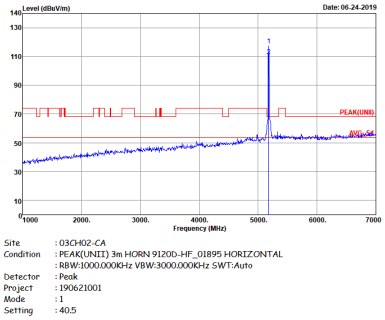
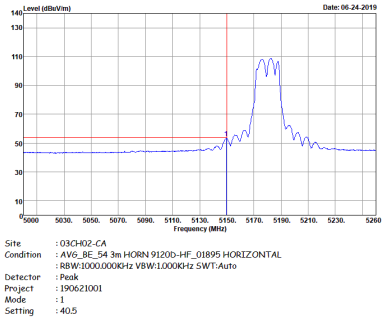
Test Engineer :	Watt Tseng	**Temperature :**	22~26°C
		Relative Humidity :	41~49%

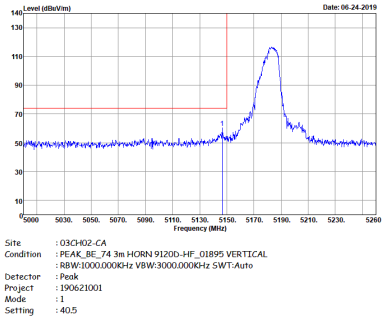
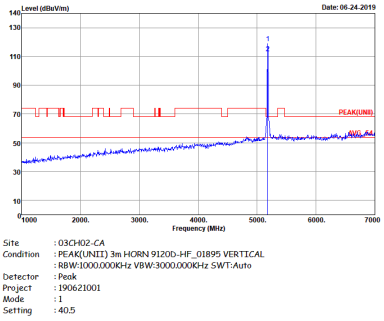
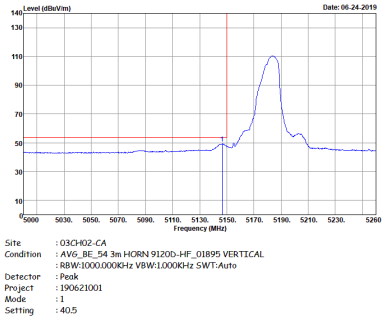
Note symbol

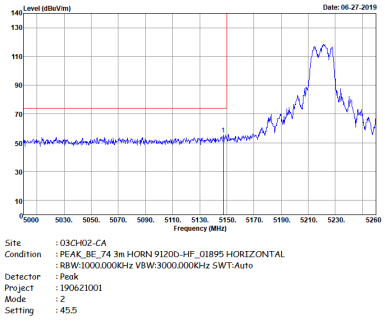
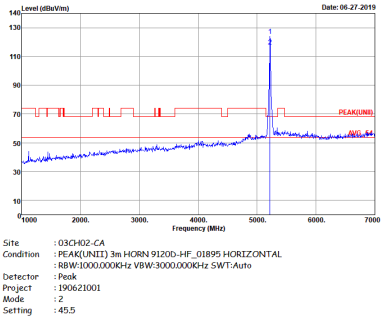
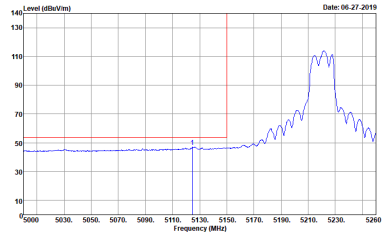
-L	**Low channel location**
-R	**High channel location**

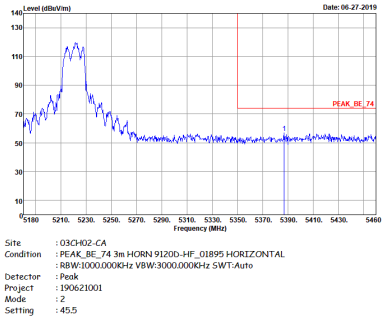
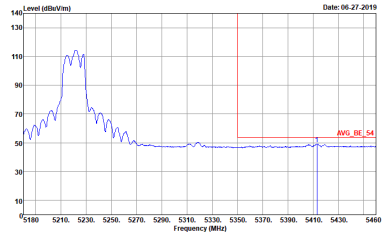
Band 1 - 5150~5250MHz

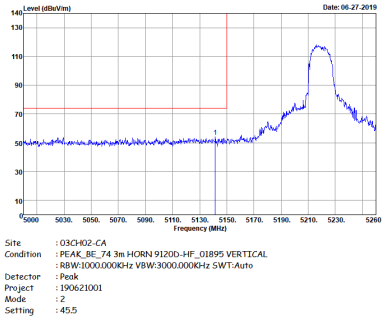
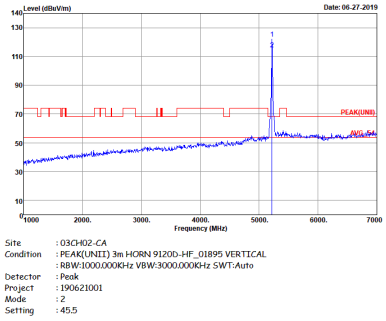
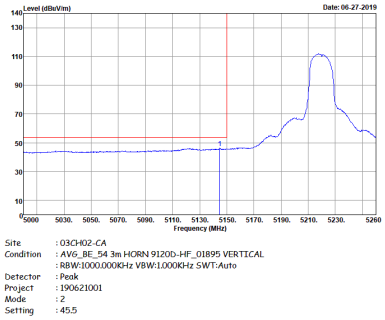
WIFI 802.11a (Band Edge @ 3m)

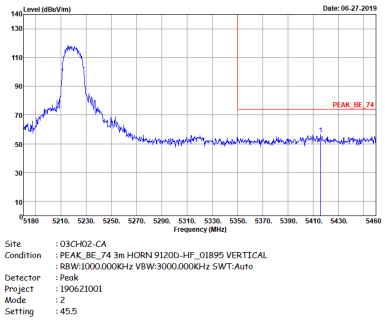
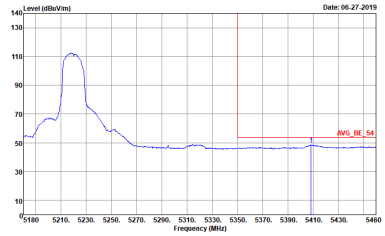
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak		
Avg.		Left blank

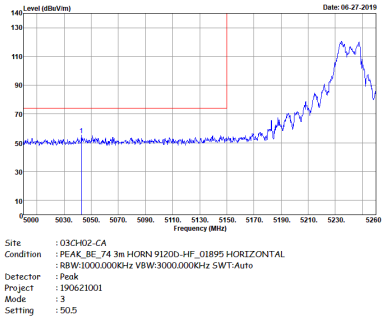
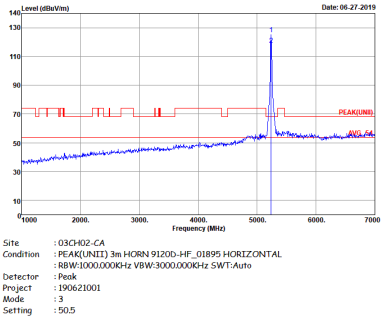
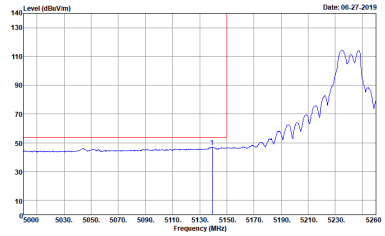
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 1 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 1 Setting : 40.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 1 Setting : 40.5	Left blank

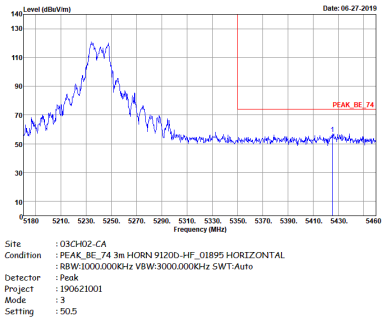
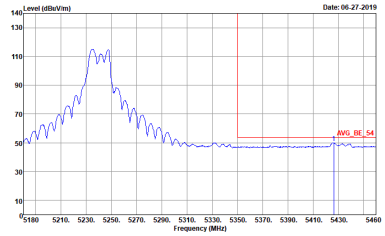
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	Left blank

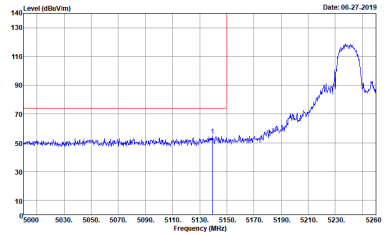
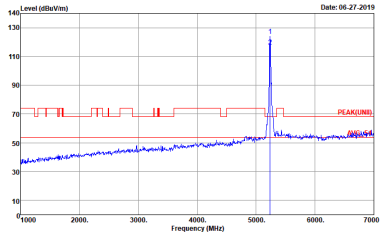
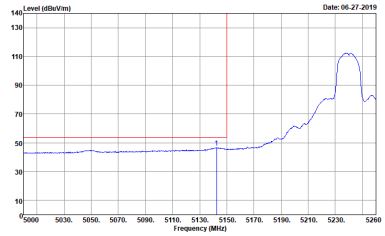
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	Left blank

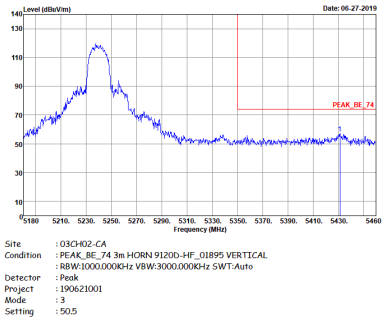
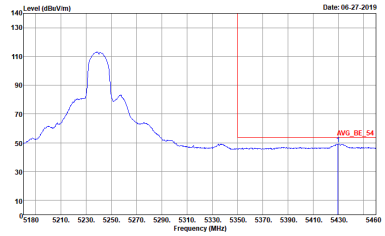
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank

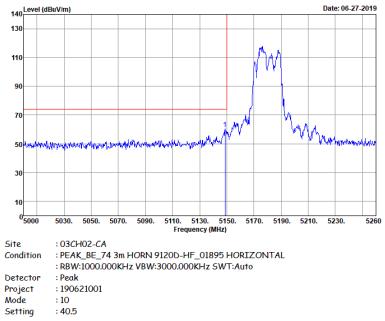
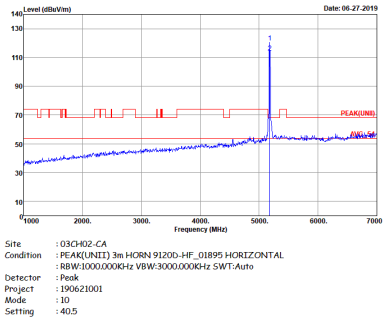
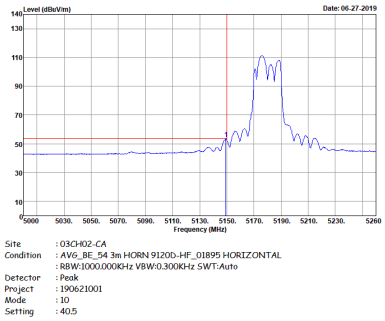
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank

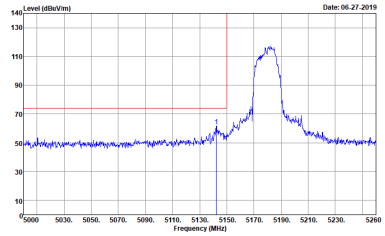
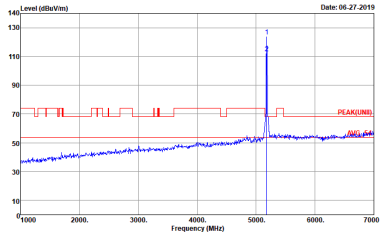
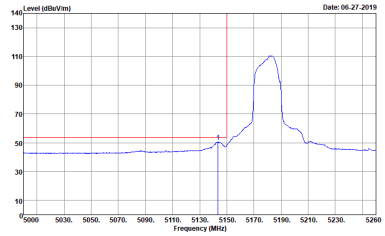
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank

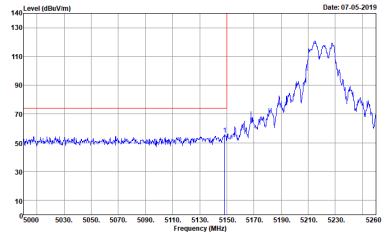
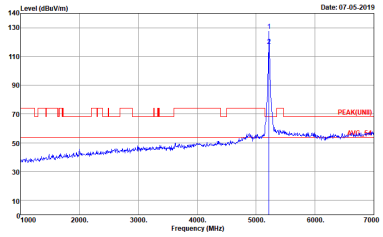
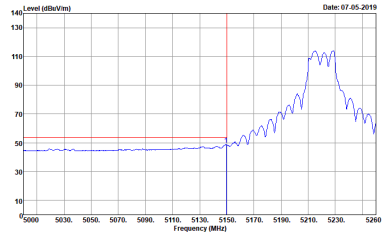
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	Left blank

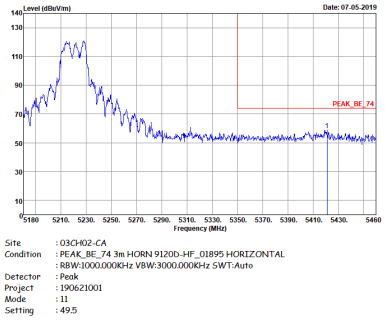
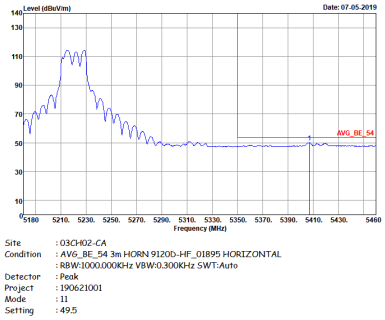
Band 1 5150~5250MHz

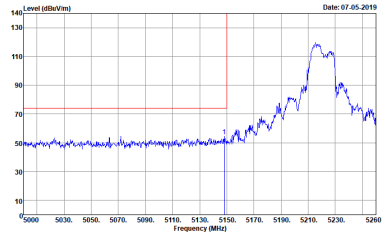
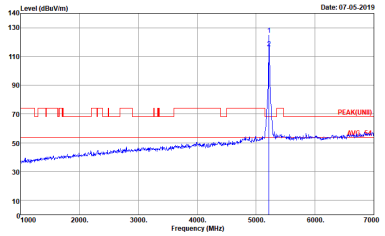
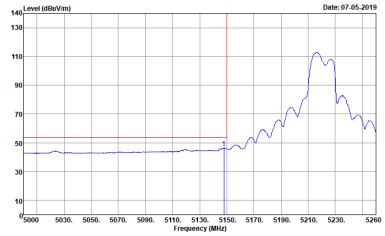
WIFI 802.11ax VHT20 (Band Edge @ 3m)

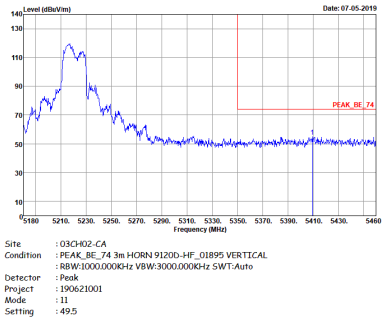
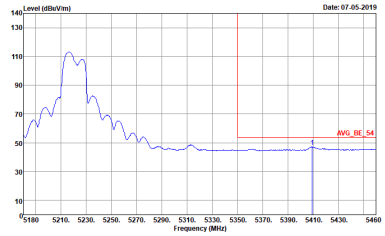
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak		
Avg.		Left blank

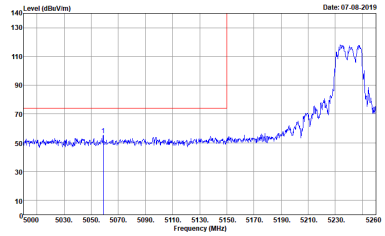
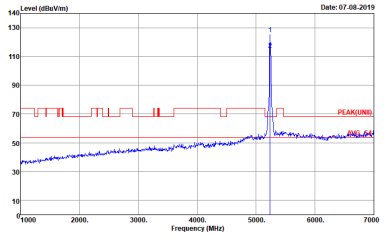
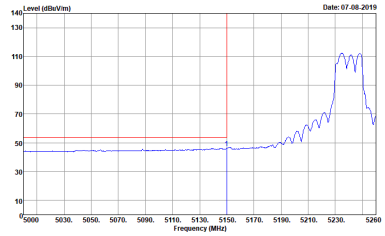
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 10 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 10 Setting : 40.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 10 Setting : 40.5	Left blank

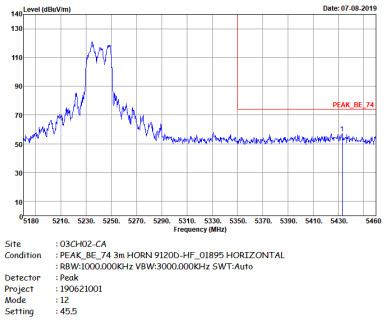
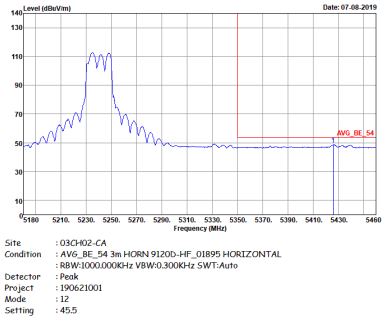
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH44 5220MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	Left blank

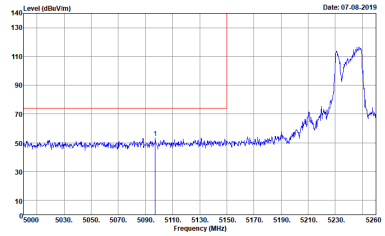
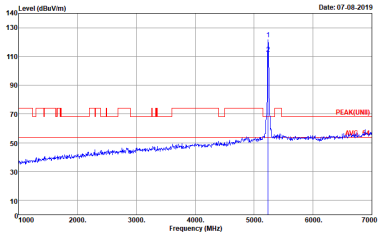
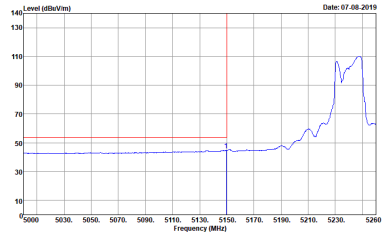
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH44 5220MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

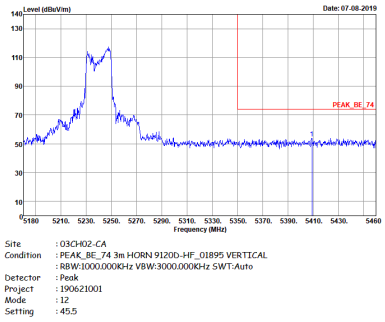
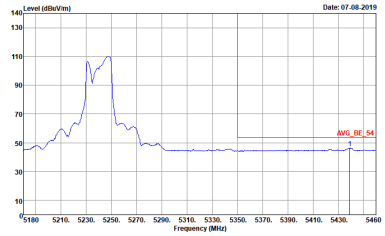
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH44 5220MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH44 5220MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	Left blank

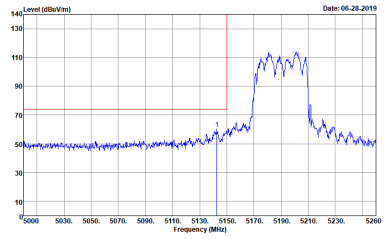
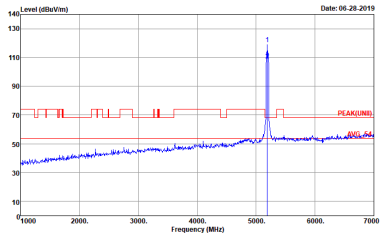
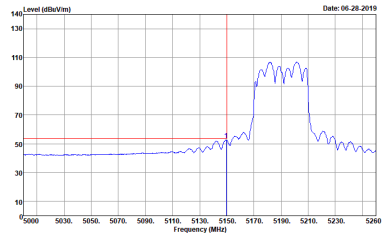
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

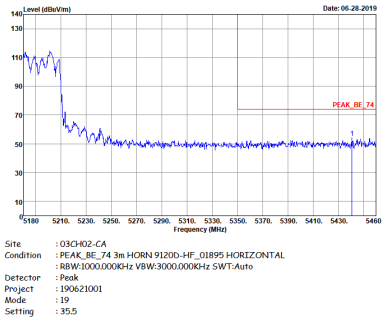
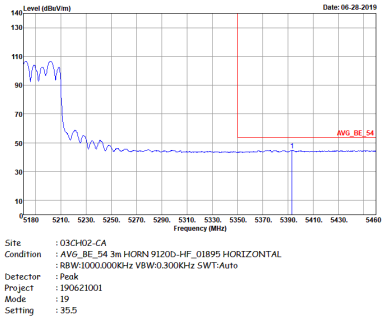
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	Left blank

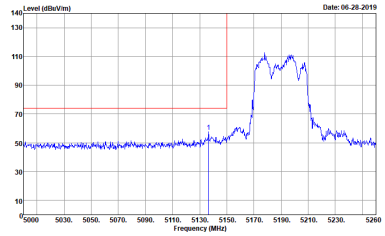
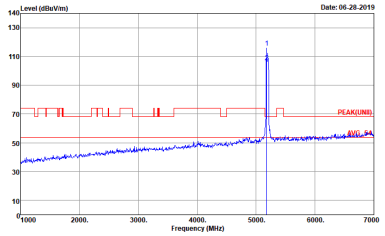
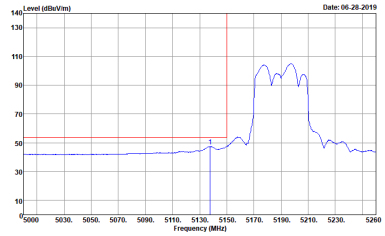
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT20 CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	Left blank

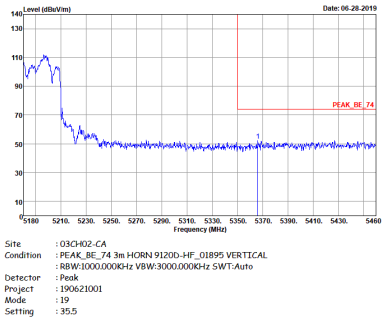
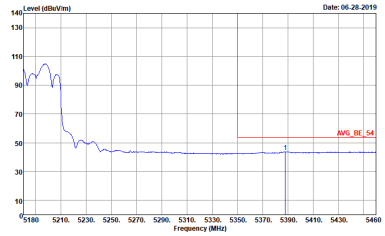
Band 1 5150~5250MHz

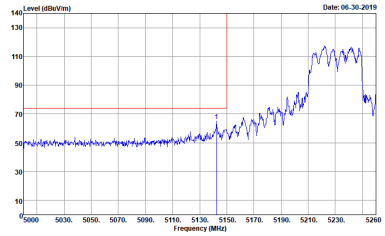
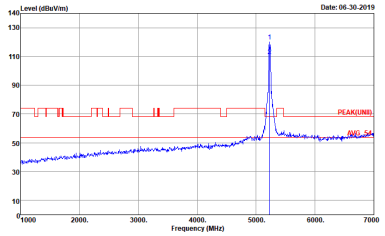
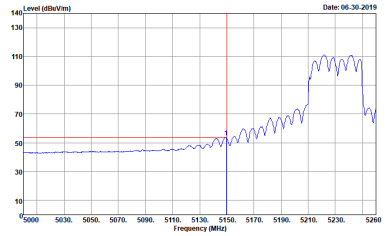
WIFI 802.11ax VHT40 (Band Edge @ 3m)

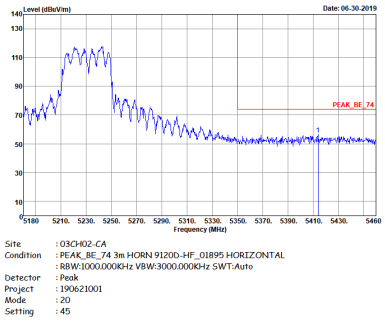
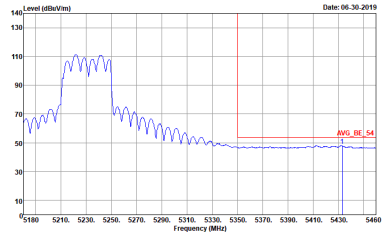
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH38 5190MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	Left blank

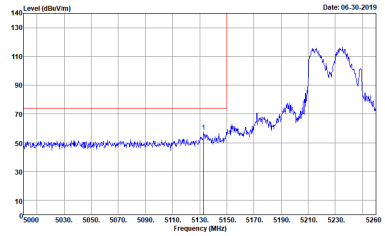
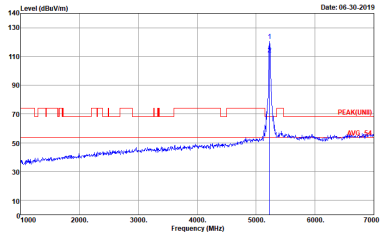
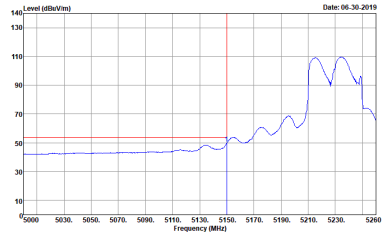
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

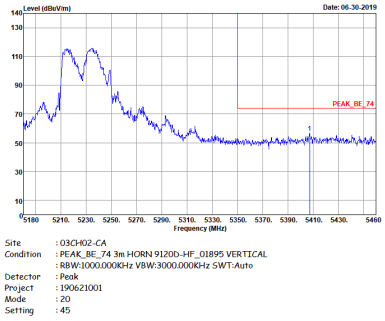
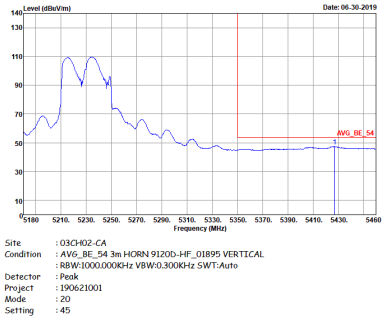
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 19 Setting : 35.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	Left blank

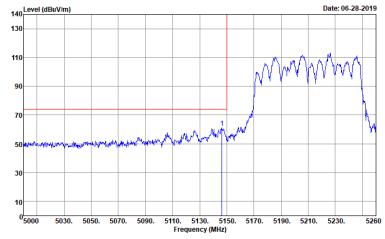
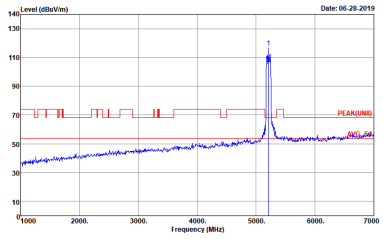
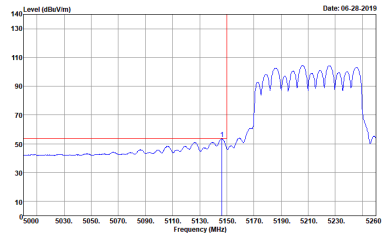
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	Left blank

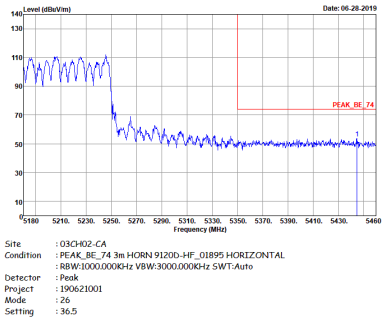
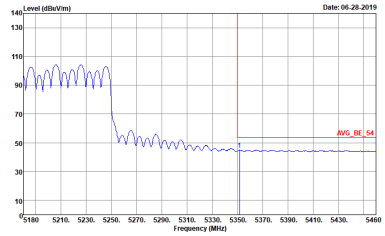
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 20 Setting : 45	Left blank

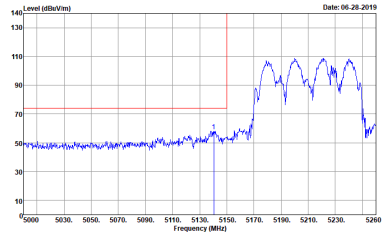
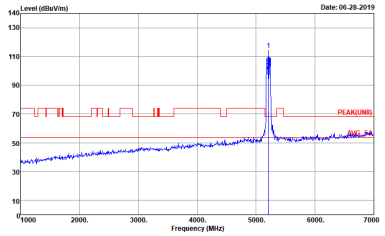
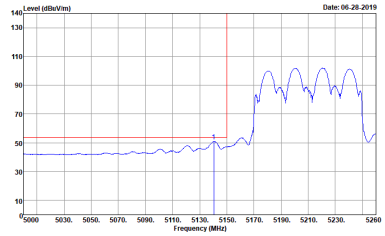
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT40 CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

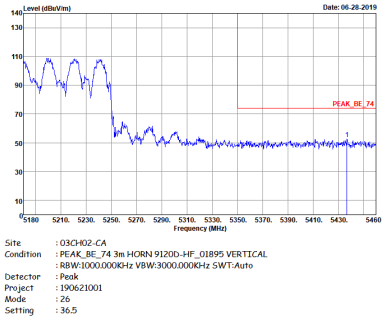
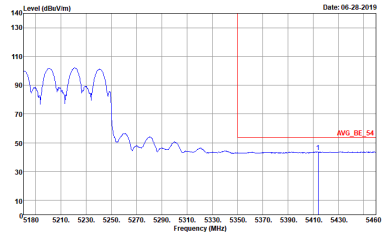
Band 1 5150~5250MHz

WIFI 802.11ax VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT80 CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank

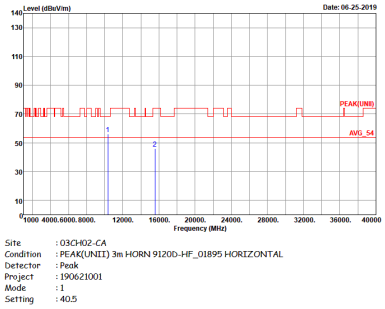
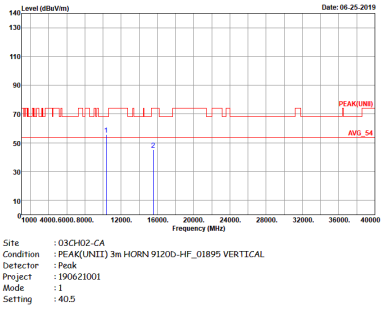
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT80 CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank

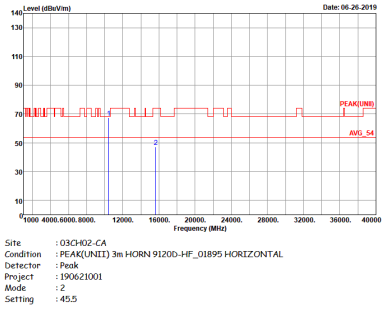
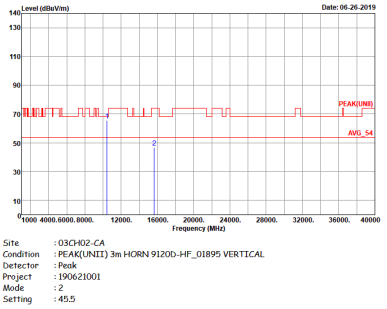
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT80 CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank

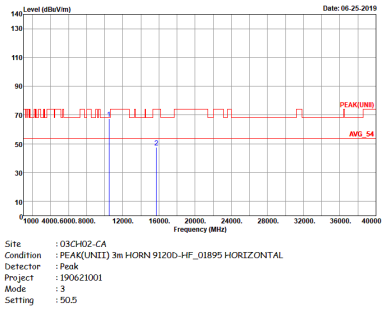
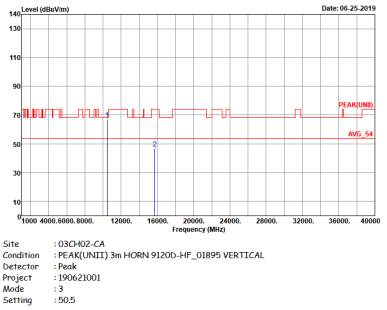
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax VHT80 CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 26 Setting : 36.5	Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

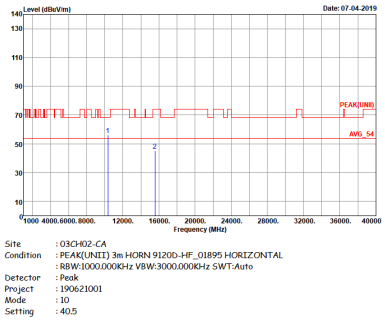
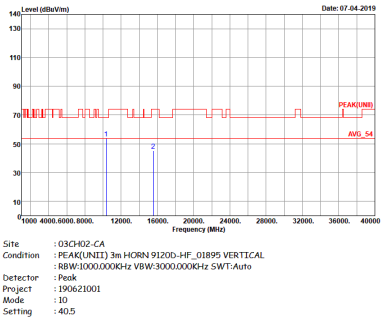
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.		

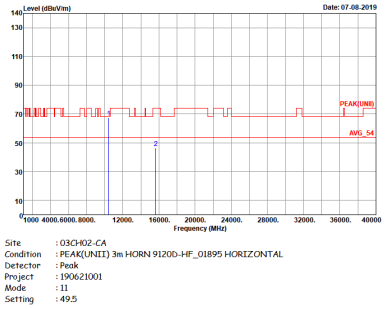
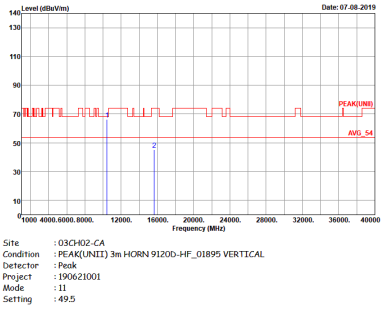
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 2 Setting : 45.5

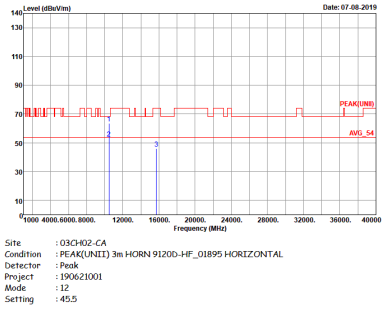
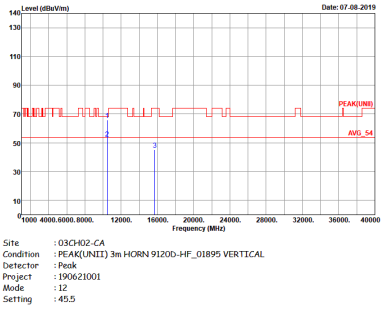
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 3 Setting : 50.5

Band 1 5150~5250MHz

WIFI 802.11ax VHT20 (Harmonic @ 3m)

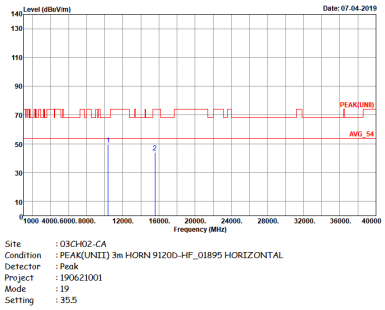
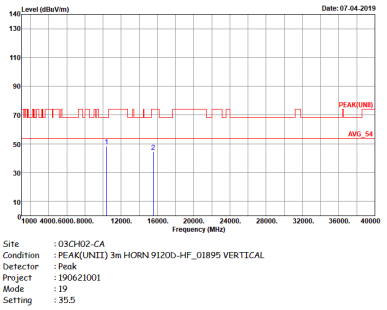
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT20 CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.		

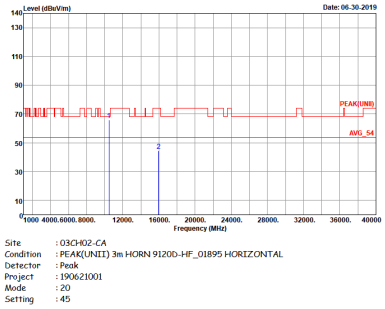
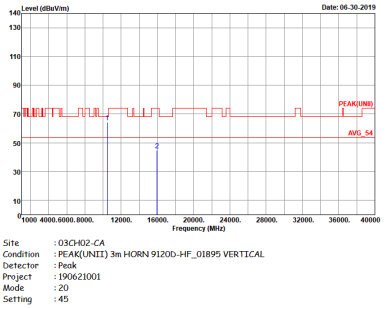
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT20 CH44 5220MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 11 Setting : 49.5

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT20 CH48 5240MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 12 Setting : 45.5

Band 1 5150~5250MHz

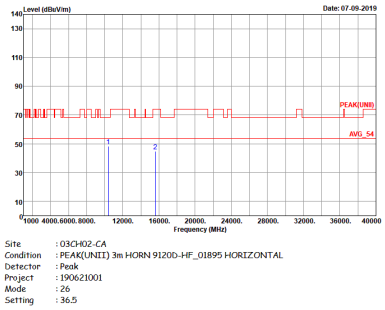
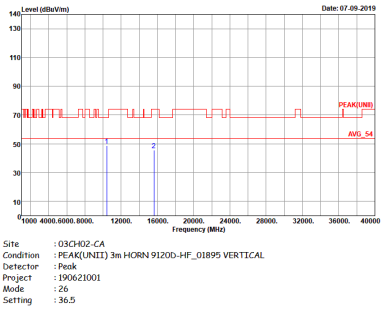
WIFI 802.11ax VHT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT40 CH38 5190MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT40 CH46 5230MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 20 Setting : 45	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 20 Setting : 45

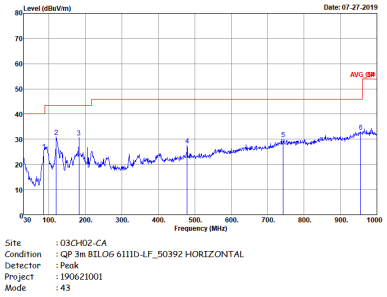
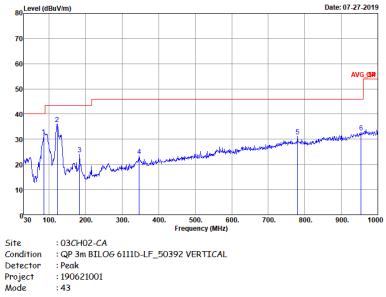
Band 1 5150~5250MHz

WIFI 802.11ax VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax VHT80 CH42 5210MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ax VHT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11ax VHT20 LF	
1+2+3+4	Horizontal	Vertical
QP / Peak		

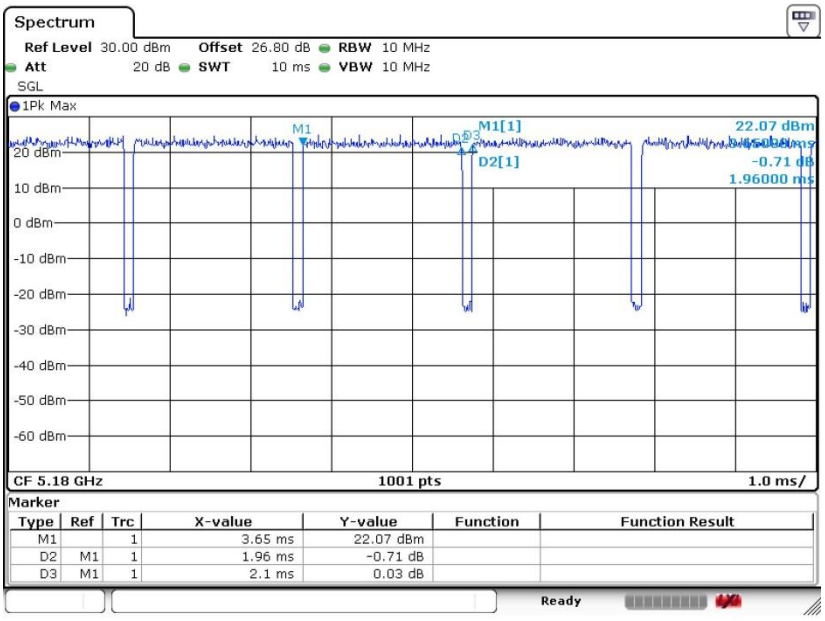
Appendix G. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2+3+4	802.11a for Ant. 1	93.33	1960	0.51	1kHz	0.30
1+2+3+4	802.11a for Ant. 2	93.78	1960	0.51	1kHz	0.28
1+2+3+4	802.11a for Ant. 3	93.78	1960	0.51	1kHz	0.28
1+2+3+4	802.11a for Ant. 4	93.33	1960	0.51	1kHz	0.30
1+2+3+4	5GHz 802.11n HT20 for Ant. 1	95.87	5426	0.18	300Hz	0.18
1+2+3+4	5GHz 802.11n HT20 for Ant. 2	95.20	5395	0.19	300Hz	0.21
1+2+3+4	5GHz 802.11n HT20 for Ant. 3	94.85	5418	0.18	300Hz	0.23
1+2+3+4	5GHz 802.11n HT20 for Ant. 4	94.83	5397	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11n HT40 for Ant. 1	95.19	5384	0.19	300Hz	0.21
1+2+3+4	5GHz 802.11n HT40 for Ant. 2	94.81	5376	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11n HT40 for Ant. 3	94.80	5397	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11n HT40 for Ant. 4	94.49	5397	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT20 for Ant. 1	94.51	5418	0.18	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT20 for Ant. 2	95.19	5397	0.19	300Hz	0.21
1+2+3+4	5GHz 802.11ac VHT20 for Ant. 3	94.51	5418	0.18	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT20 for Ant. 4	94.49	5397	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT40 for Ant. 1	94.12	5376	0.19	300Hz	0.26
1+2+3+4	5GHz 802.11ac VHT40 for Ant. 2	94.49	5397	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT40 for Ant. 3	94.46	5376	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT40 for Ant. 4	94.49	5397	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ac VHT80 for Ant. 1	94.83	5397	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11ac VHT80 for Ant. 2	95.19	5397	0.19	300Hz	0.21
1+2+3+4	5GHz 802.11ac VHT80 for Ant. 3	94.83	5397	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11ac VHT80 for Ant. 4	94.83	5397	0.19	300Hz	0.23

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2+3+4	5GHz 802.11ax HE20 for Ant. 1	95.09	5420	0.18	300Hz	0.22
1+2+3+4	5GHz 802.11ax HE20 for Ant. 2	94.74	5400	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11ax HE20 for Ant. 3	95.77	5430	0.18	300Hz	0.19
1+2+3+4	5GHz 802.11ax HE20 for Ant. 4	95.09	5420	0.18	300Hz	0.22
1+2+3+4	5GHz 802.11ax HE40 for Ant. 1	94.74	5400	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11ax HE40 for Ant. 2	94.57	5400	0.19	300Hz	0.24
1+2+3+4	5GHz 802.11ax HE40 for Ant. 3	95.06	5390	0.19	300Hz	0.22
1+2+3+4	5GHz 802.11ax HE40 for Ant. 4	94.41	5400	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ax HE80 for Ant. 1	94.39	5380	0.19	300Hz	0.25
1+2+3+4	5GHz 802.11ax HE80 for Ant. 2	94.74	5400	0.19	300Hz	0.23
1+2+3+4	5GHz 802.11ax HE80 for Ant. 3	95.07	5400	0.19	300Hz	0.22
1+2+3+4	5GHz 802.11ax HE80 for Ant. 4	94.41	5400	0.19	300Hz	0.25

MIMO <Ant. 1>

802.11a



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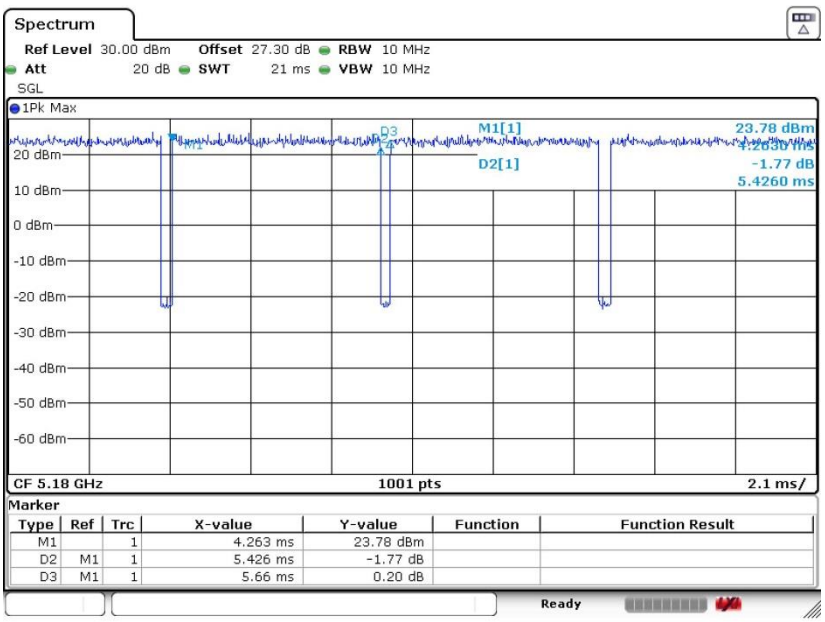
802.11n HT20



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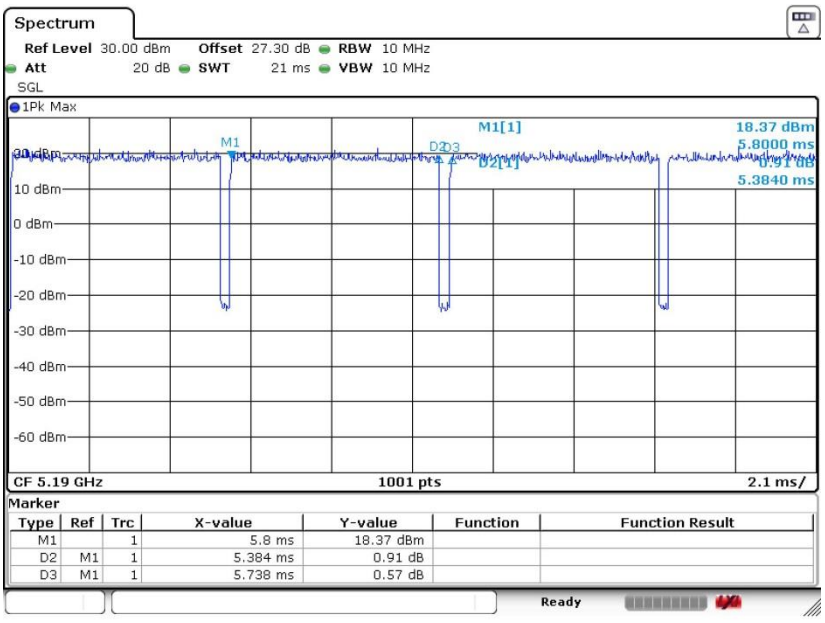
802.11n HT40



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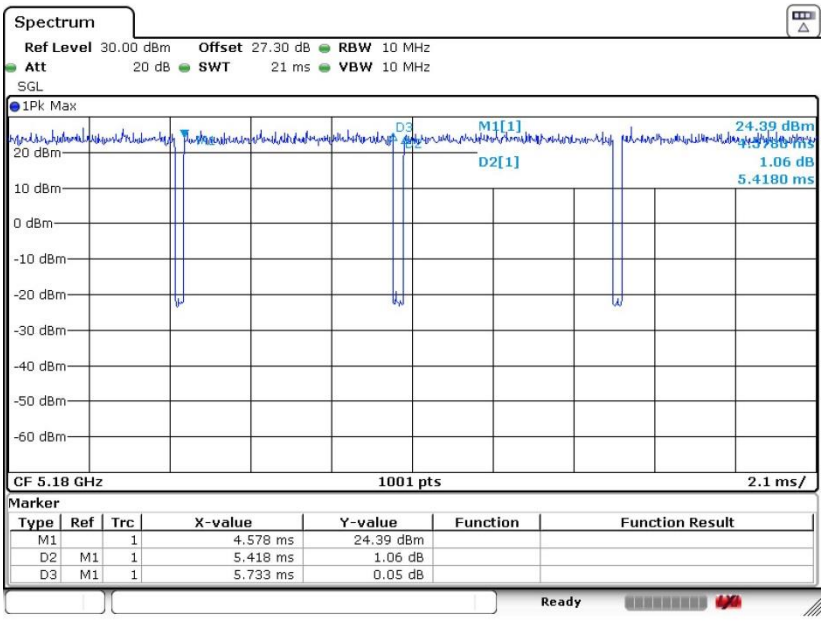
802.11ac VHT20



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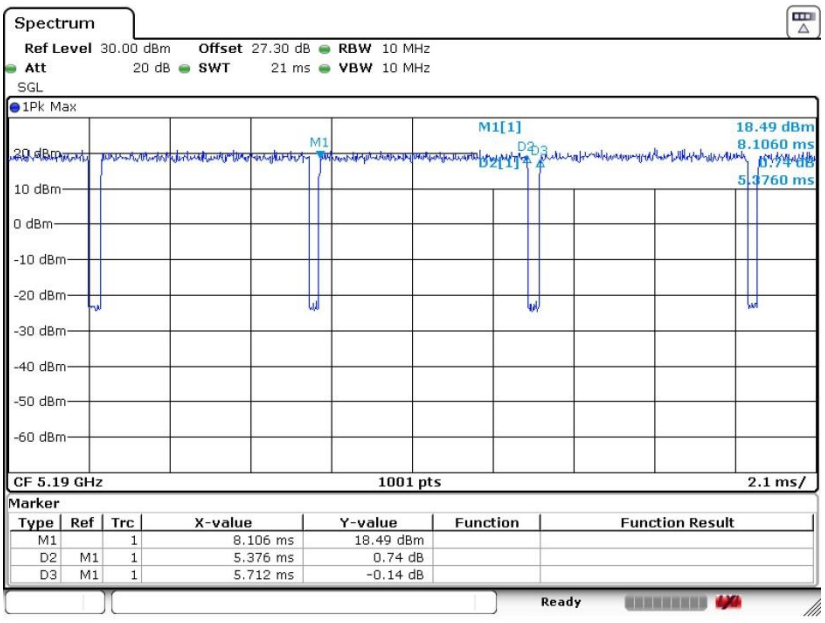
802.11ac VHT40



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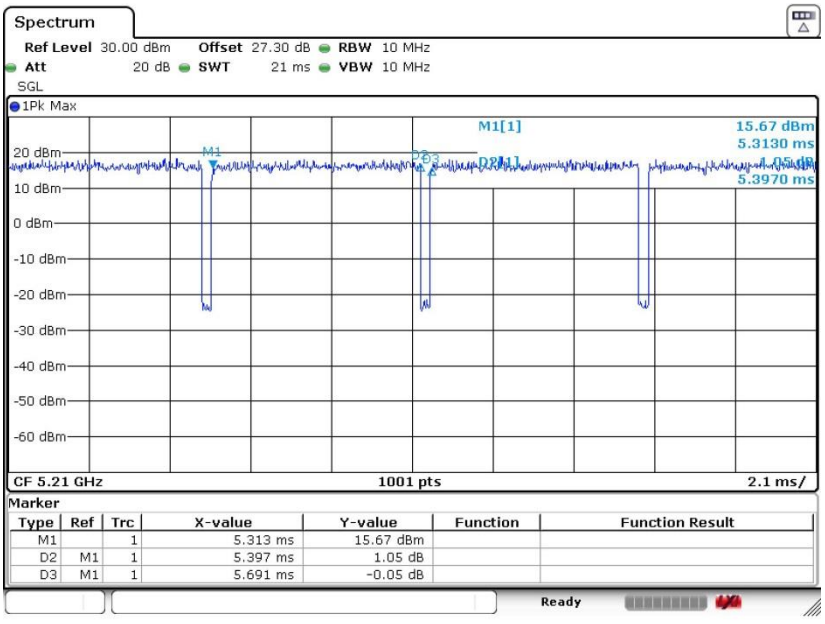
802.11ac VHT80



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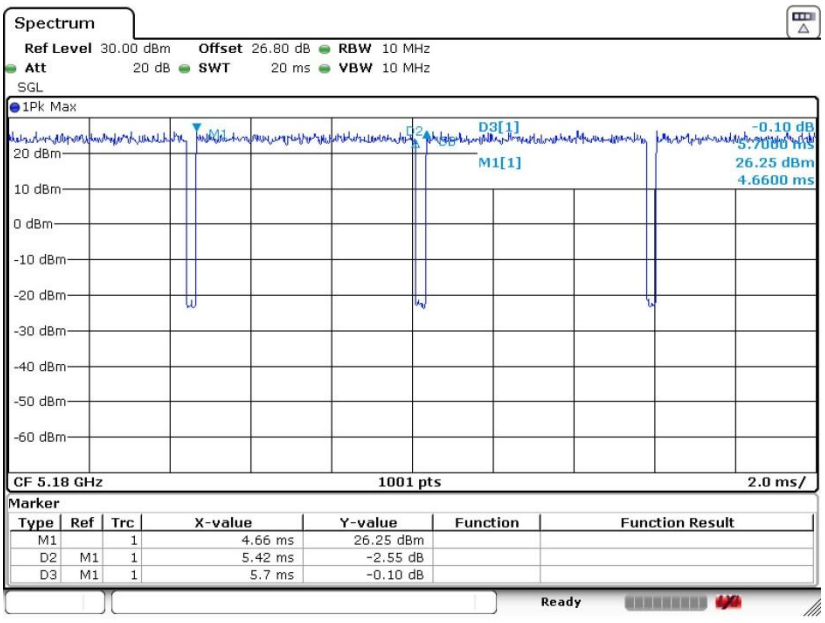
802.11ax HE20



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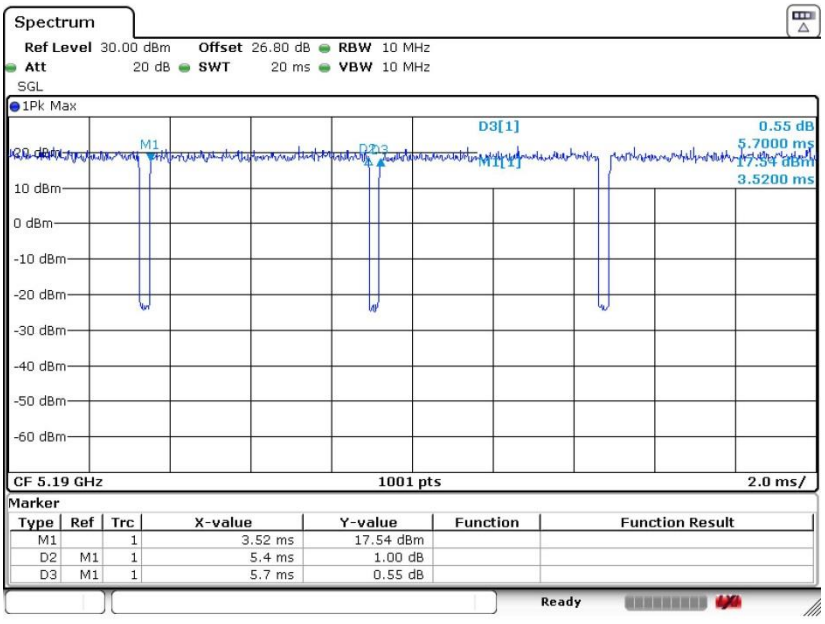
802.11ax HE40



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