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
FR190621001E	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)	6dB & 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 0.35 dB at 11650.000 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 (X 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

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.

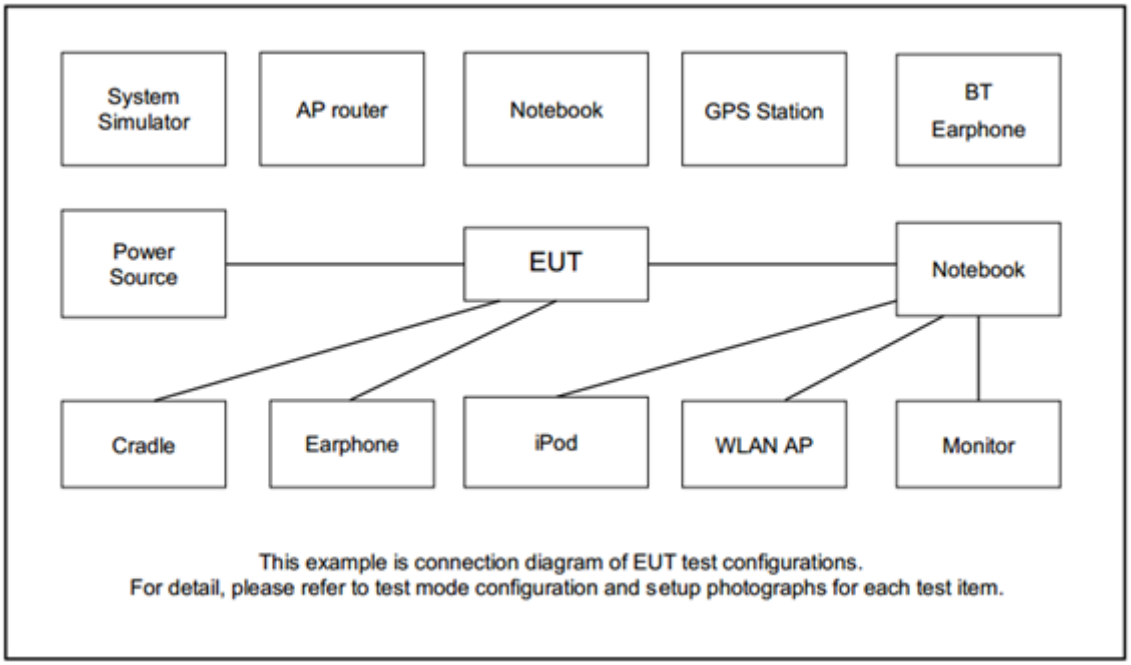
MIMO Mode

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 IV：5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

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 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

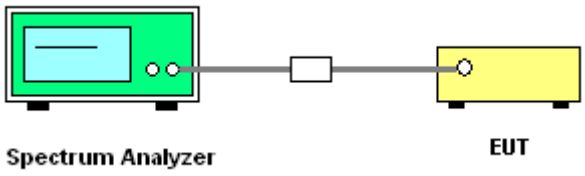
3.1.2 Measuring Instruments

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 for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

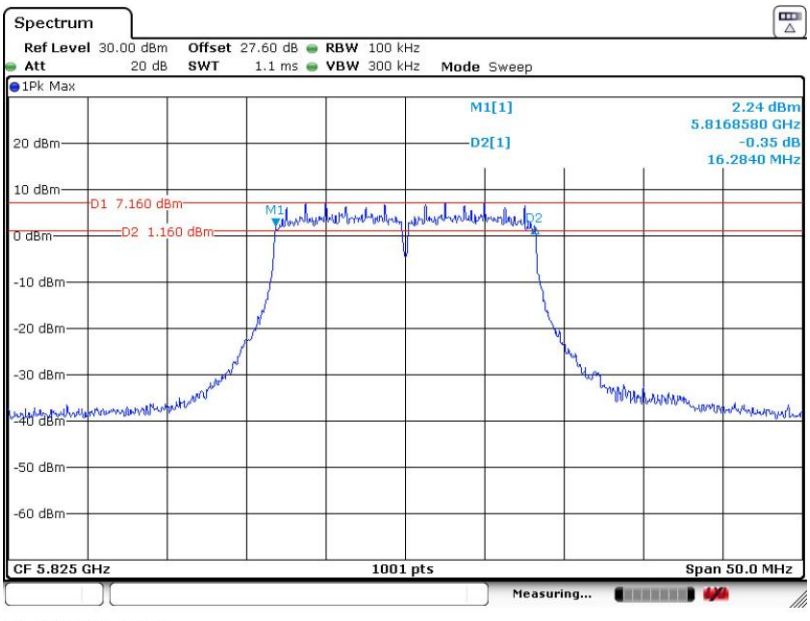
3.1.4 Test Setup



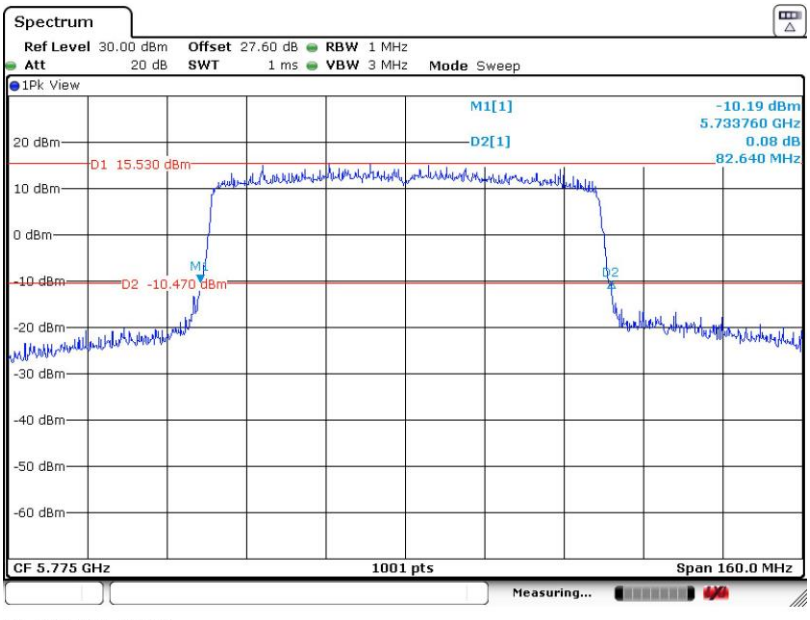
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

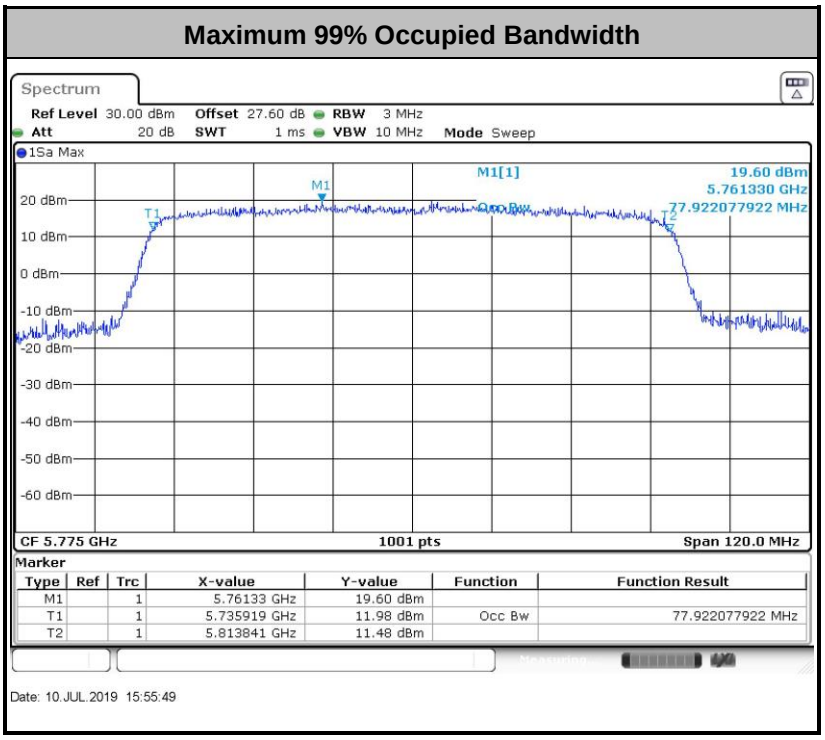
Minimum 6dB Bandwidth



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

For the band 5.725–5.85 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.

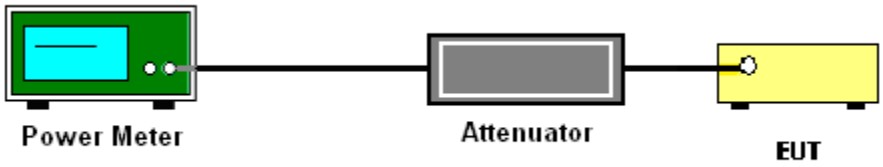
3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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):

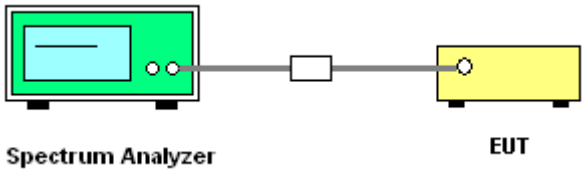
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which 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 (c): Measure and add 10 log(N_{ANT}) dB.

   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

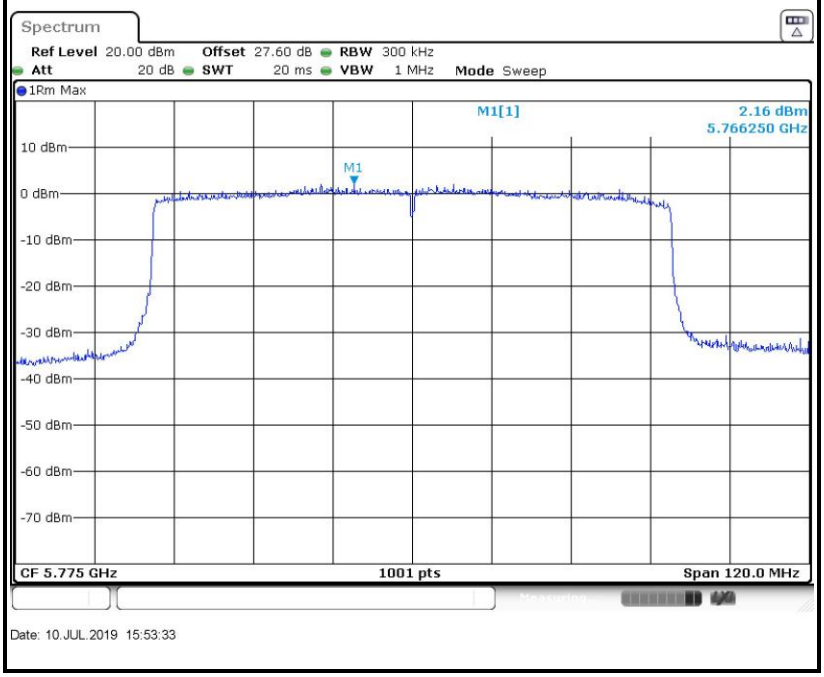
3.3.4 Test Setup



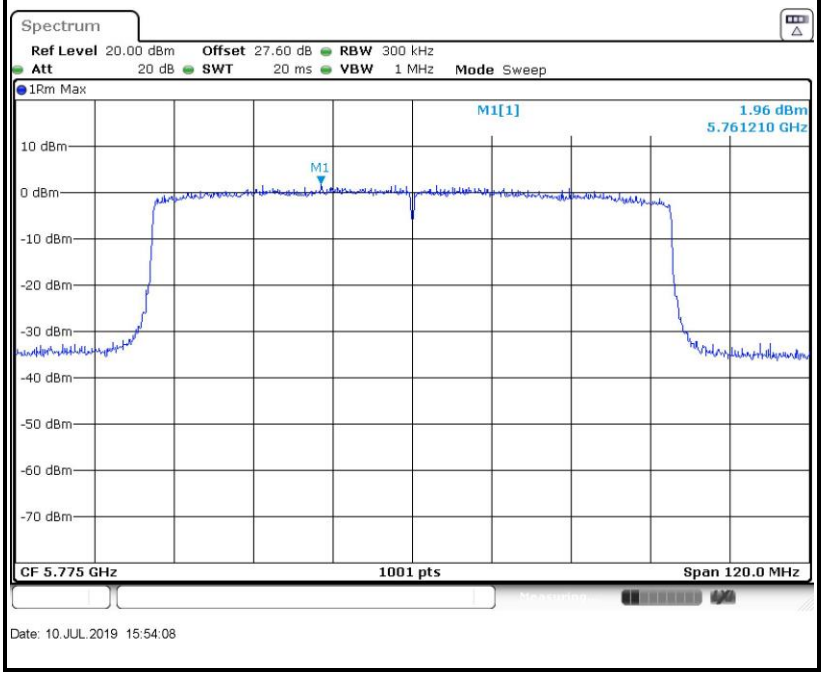
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

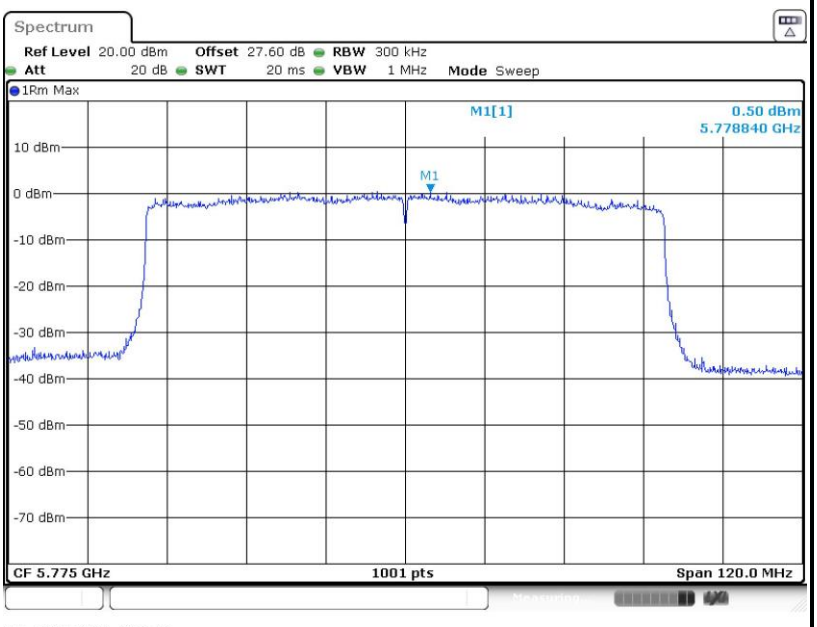
Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



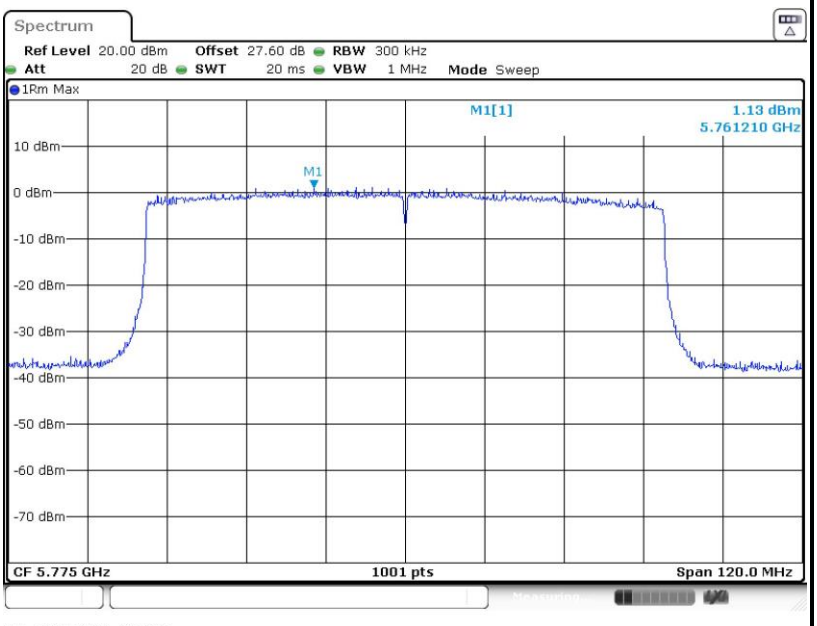
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



Worst Case Power Density (dBm/MHz) for MIMO Ant. 3



Worst Case Power Density (dBm/MHz) for MIMO Ant. 4



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(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

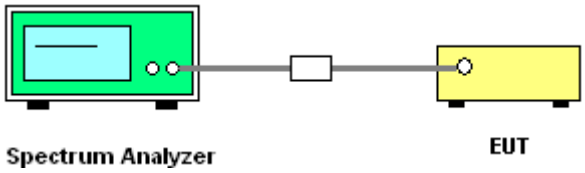
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - 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.

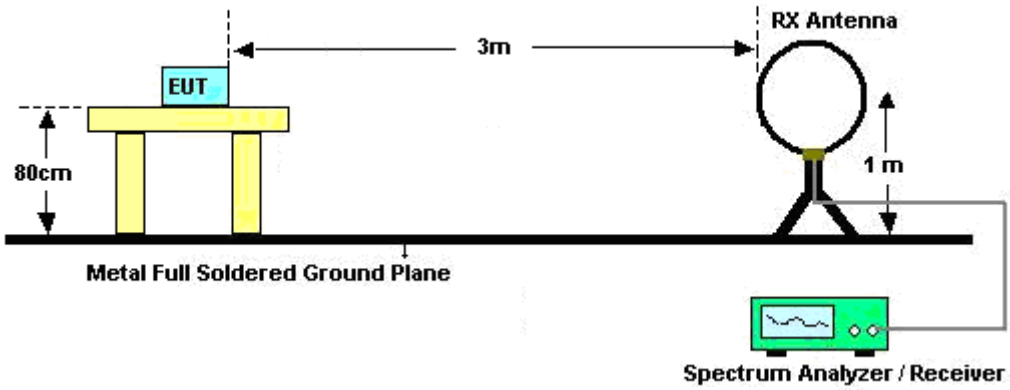
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

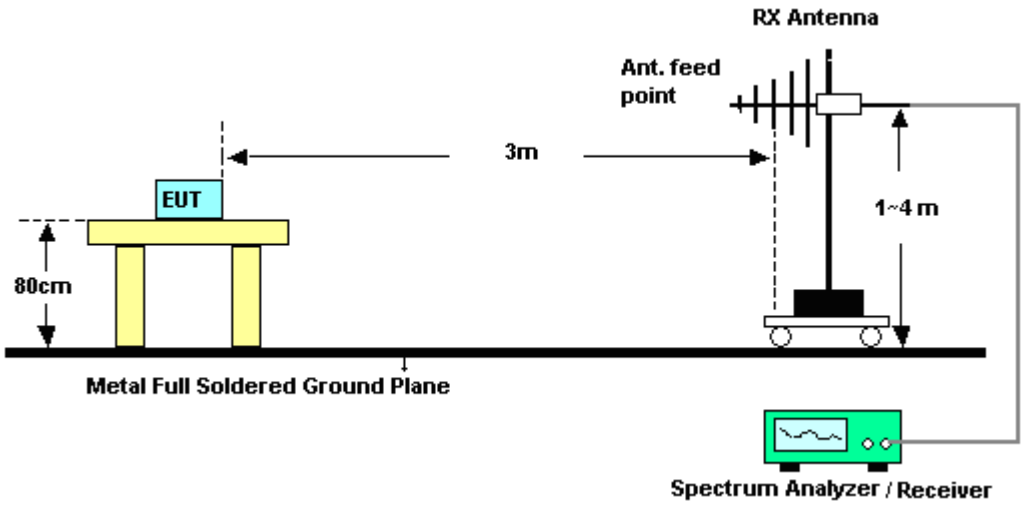
For Conducted Measurement Setup:



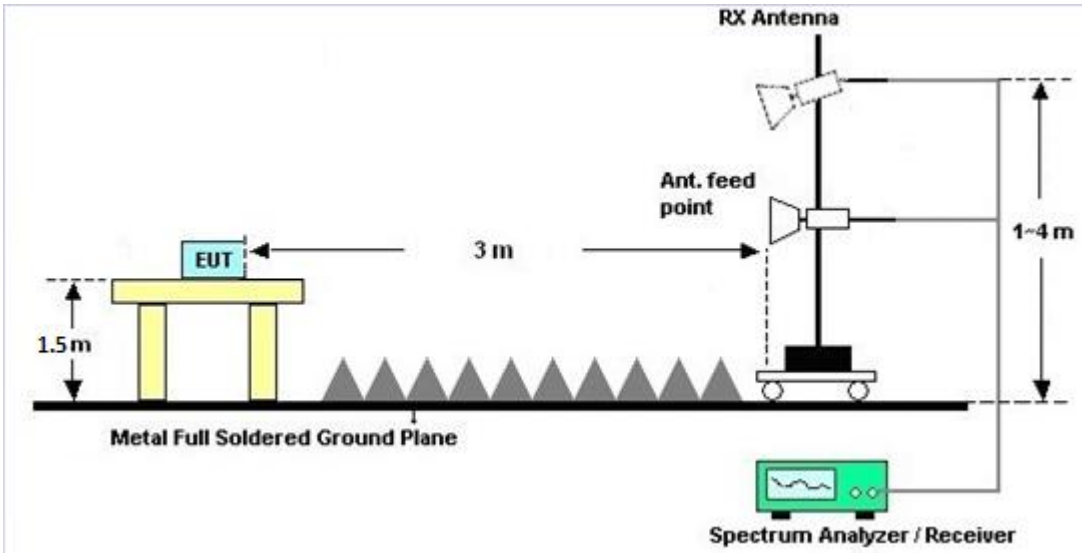
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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.

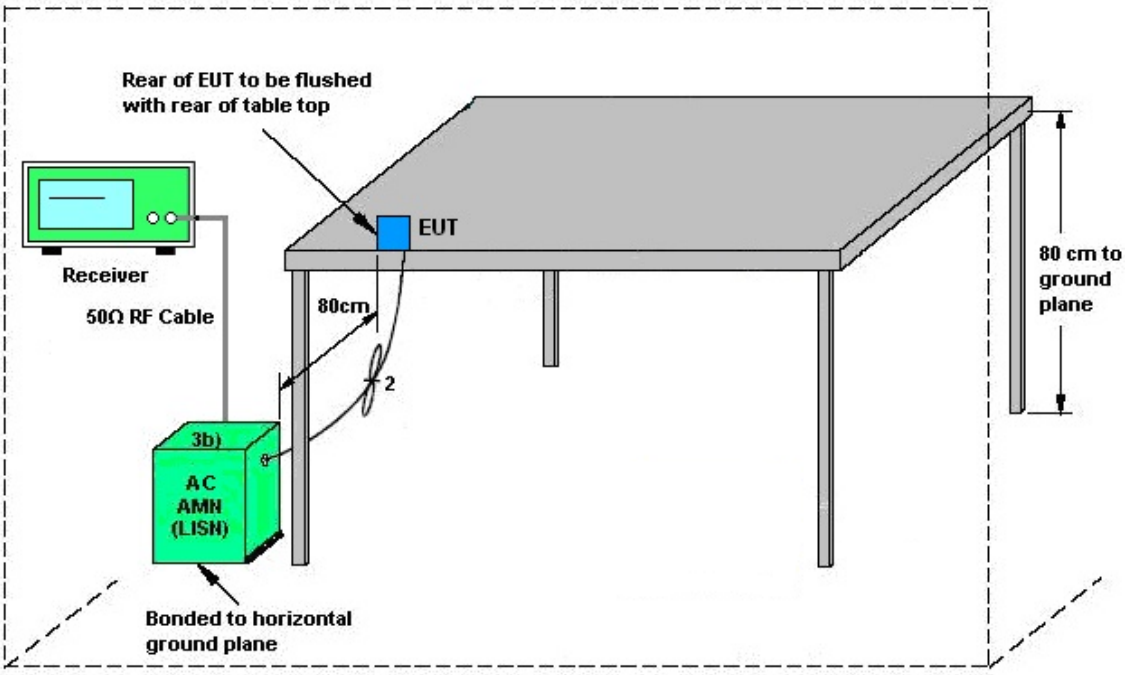
3.5.2 Measuring Instruments

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 G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

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

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

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

Band IV 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+4	3.40	6.41	0.00	0.41

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1804004	N/A	Aug. 09, 2018	Jul. 03, 2019~ Jul. 12, 2019	Aug. 08, 2019	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. 09, 2018	Jul. 03, 2019~ Jul. 12, 2019	Aug. 08, 2019	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	Jul. 03, 2019~ Jul. 12, 2019	Aug. 22, 2019	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	Jul. 03, 2019~ Jul. 12, 2019	Apr. 06, 2020	Conducted (TH01-CA)
Switch Box & RF Cable	EM	EMSW18	SW1070902	N/A	Apr. 07, 2019	Aug. 19, 2019	Apr. 06, 2020	Conducted (TH01-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)
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	17100018000 55004	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)
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. Conducted Test Results

Test Engineer:	Andrew Van	Temperature:	21~25	°C
Test Date:	2019/7/3~2019/8/19	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% OBW

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4		
11a	6Mbps	4	149	5745	21.43	21.13	21.13	21.08	16.33	16.33	16.33	16.33	0.5	Pass
11a	6Mbps	4	157	5785	21.18	21.13	21.13	20.78	16.33	16.28	16.33	16.33	0.5	Pass
11a	6Mbps	4	165	5825	21.33	21.23	20.88	20.88	16.28	16.28	16.28	16.28	0.5	Pass

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)									Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4		
11a	6Mbps	4	149	5745	16.43	16.48	16.434	16.43						Pass
11a	6Mbps	4	157	5785	16.43	16.48	16.434	16.38						Pass
11a	6Mbps	4	165	5825	16.43	16.43	16.38	16.38						Pass

TEST RESULTS DATA
Average Power Table

Band IV															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)				Pass/ Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
11a	6Mbps	4	149	5745	19.18	19.55	18.04	18.52	24.88	30.00	3.40				Pass
11a	6Mbps	4	157	5785	19.47	19.62	18.37	18.84	25.12	30.00	3.40				Pass
11a	6Mbps	4	165	5825	19.53	19.71	18.85	19.19	25.35	30.00	3.40				Pass
HT20	MCS0	4	149	5745	19.65	19.85	18.77	19.15	25.40	30.00	3.40				Pass
HT20	MCS0	4	157	5785	19.95	20.06	18.79	19.37	25.59	30.00	3.40				Pass
HT20	MCS0	4	165	5825	20.47	20.08	19.14	19.60	25.87	30.00	3.40				Pass
HT40	MCS0	4	151	5755	21.70	21.55	20.02	20.73	27.07	30.00	3.40				Pass
HT40	MCS0	4	159	5795	21.23	21.09	20.2	20.57	26.81	30.00	3.40				Pass
VHT20	MCS0	4	149	5745	19.54	19.76	18.74	19.06	25.31	30.00	3.40				Pass
VHT20	MCS0	4	157	5785	19.78	20.03	18.78	19.28	25.51	30.00	3.40				Pass
VHT20	MCS0	4	165	5825	19.96	19.93	19.36	19.54	25.73	30.00	3.40				Pass
VHT40	MCS0	4	151	5755	21.54	21.65	20.17	20.80	27.10	30.00	3.40				Pass
VHT40	MCS0	4	159	5795	21.33	21.18	20.15	20.66	26.88	30.00	3.40				Pass
VHT80	MCS0	4	155	5775	22.05	21.99	20.66	21.26	27.55	30.00	3.40				Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with RBW and duty factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)				Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
11a	6Mbps	4	149	5745	7.43	7.46	5.95	6.33	13.48	29.59	6.41				Pass
11a	6Mbps	4	157	5785	7.18	7.19	6.06	6.58	13.21	29.59	6.41				Pass
11a	6Mbps	4	165	5825	7.29	7.79	6.91	7.73	13.81	29.59	6.41				Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

TEST RESULTS DATA
6dB and 99% OBW

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	26dB Bandwidth (MHz)				6 dB Bandwidth (MHz)				6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4		
HE20	MCS0	4	149	5745	22.63	22.48	22.68	22.63	18.98	18.88	18.93	18.93	0.5	Pass
HE20	MCS0	4	157	5785	22.78	22.53	22.38	22.93	18.93	18.88	18.78	18.93	0.5	Pass
HE20	MCS0	4	165	5825	22.53	22.68	22.428	22.68	18.93	18.93	18.93	18.93	0.5	Pass
HE40	MCS0	4	151	5755	42.17	41.90	41.988	41.90	38.03	37.96	38.03	37.85	0.5	Pass
HE40	MCS0	4	159	5795	41.81	41.54	41.808	42.08	37.94	37.942	37.94	37.94	0.5	Pass
HE80	MCS0	4	155	5775	82.64	82.48	82.32	82.16	77.68	77.84	77.68	77.68	0.5	Pass

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)									Pass/Fail
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4		
HE20	MCS0	4	149	5745	18.93	18.88	18.93	18.93						Pass
HE20	MCS0	4	157	5785	18.98	18.88	18.88	18.93						Pass
HE20	MCS0	4	165	5825	18.93	18.98	18.931	18.93						Pass
HE40	MCS0	4	151	5755	37.96	37.96	38.06	37.96						Pass
HE40	MCS0	4	159	5795	37.86	37.96	38.06	37.96						Pass
HE80	MCS0	4	155	5775	77.92	77.92	78.04	77.92						Pass

TEST RESULTS DATA
Average Power Table

Band IV															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)				Pass/ Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	20.11	20.10	18.77	19.29	25.62	30.00	3.40				Pass
HE20	MCS0	4	157	5785	20.46	20.30	18.99	19.57	25.89	30.00	3.40				Pass
HE20	MCS0	4	165	5825	20.58	20.51	19.58	20.11	26.23	30.00	3.40				Pass
HE40	MCS0	4	151	5755	21.80	21.73	20.34	20.94	27.26	30.00	3.40				Pass
HE40	MCS0	4	159	5795	21.51	21.40	20.35	20.86	27.07	30.00	3.40				Pass
HE80	MCS0	4	155	5775	22.43	22.34	21.02	21.68	27.92	30.00	3.40				Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band IV															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with RBW and duty factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)				Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	7.69	7.54	6.40	6.81	13.71	29.59	6.41				Pass
HE20	MCS0	4	157	5785	7.57	7.83	6.14	6.73	13.85	29.59	6.41				Pass
HE20	MCS0	4	165	5825	8.50	8.16	6.99	7.06	14.52	29.59	6.41				Pass
HE40	MCS0	4	151	5755	5.63	6.74	5.21	5.60	12.76	29.59	6.41				Pass
HE40	MCS0	4	159	5795	6.03	5.73	4.97	5.27	12.05	29.59	6.41				Pass
HE80	MCS0	4	155	5775	4.38	4.18	2.72	3.35	10.40	29.59	6.41				Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

<Band-edge Unmodulated>

TEST RESULTS DATA
Average Power Table

Band IV															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)				Pass/ Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	16.01	15.84	14.71	14.91	21.42	30.00	3.40				Pass
HE20	MCS0	4	157	5785	16.15	15.97	15.04	14.88	21.57	30.00	3.40				Pass
HE20	MCS0	4	165	5825	16.58	16.64	16.25	15.68	22.32	30.00	3.40				Pass
HE40	MCS0	4	151	5755	17.26	17.12	16.39	16.10	22.77	30.00	3.40				Pass
HE40	MCS0	4	159	5795	18.03	17.89	17.33	16.64	23.53	30.00	3.40				Pass
HE80	MCS0	4	155	5775	17.76	17.72	16.79	16.61	23.27	30.00	3.40				Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with RBW and duty factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)				Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	7.19	7.11	5.71	5.78	13.21	29.59	6.41				Pass
HE20	MCS0	4	157	5785	7.56	7.08	5.87	5.78	13.58	29.59	6.41				Pass
HE20	MCS0	4	165	5825	7.41	7.57	6.96	6.26	13.59	29.59	6.41				Pass
HE40	MCS0	4	151	5755	5.58	5.33	4.38	4.27	11.60	29.59	6.41				Pass
HE40	MCS0	4	159	5795	5.74	5.57	4.89	4.75	11.76	29.59	6.41				Pass
HE80	MCS0	4	155	5775	1.18	1.17	-0.10	0.11	7.20	29.59	6.41				Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

<Middle Unmodulated>

TEST RESULTS DATA
Average Power Table

Band IV															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)					FCC Conducted Power Limit (dBm)	DG (dBi)				Pass/ Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	17.41	17.62	16.5	16.54	23.07	30.00	3.40				Pass
HE20	MCS0	4	157	5785	17.79	18.10	16.52	16.39	23.29	30.00	3.40				Pass
HE20	MCS0	4	165	5825	17.61	17.80	17.31	17.44	23.56	30.00	3.40				Pass
HE40	MCS0	4	151	5755	18.40	18.25	16.85	16.56	23.61	30.00	3.40				Pass
HE40	MCS0	4	159	5795	18.26	18.31	17.42	17.13	23.83	30.00	3.40				Pass
HE80	MCS0	4	155	5775	17.02	17.19	16.23	16.37	22.74	30.00	3.40				Pass

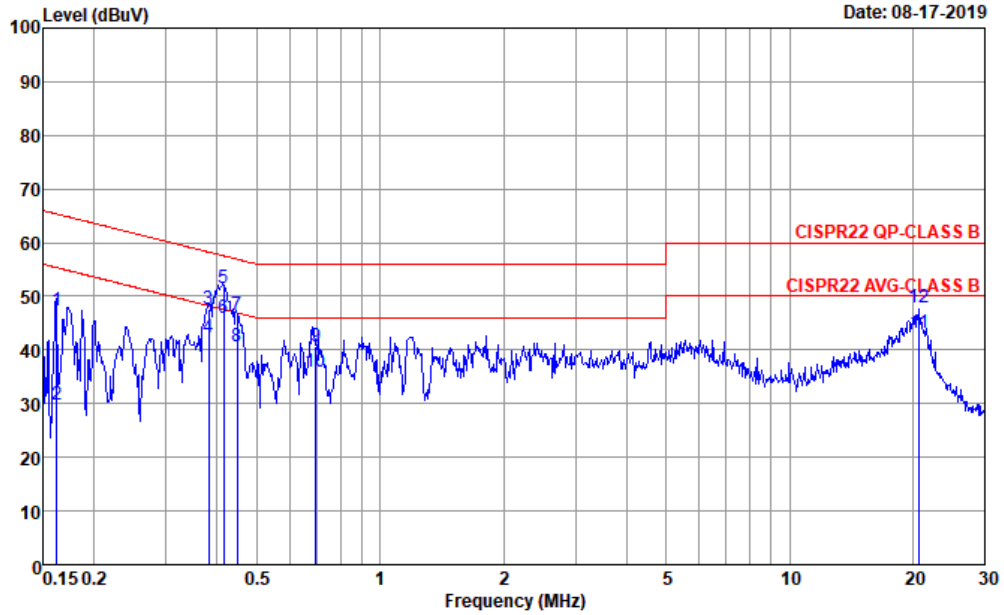
TEST RESULTS DATA
Power Spectral Density

FCC Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with RBW and duty factor (dBm/500kHz)					Average PSD Limit (dBm/500kHz)	DG (dBi)				Pass /Fail
					Ant 1	Ant 2	Ant 3	Ant 4	SUM		Ant 1	Ant 2	Ant 3	Ant 4	
HE20	MCS0	4	149	5745	7.30	7.50	6.32	6.73	13.52	29.59	6.41				Pass
HE20	MCS0	4	157	5785	7.29	7.48	6.10	6.46	13.50	29.59	6.41				Pass
HE20	MCS0	4	165	5825	7.46	7.48	6.77	6.82	13.50	29.59	6.41				Pass
HE40	MCS0	4	151	5755	5.60	5.96	4.20	4.49	11.98	29.59	6.41				Pass
HE40	MCS0	4	159	5795	5.68	5.51	4.85	4.43	11.70	29.59	6.41				Pass
HE80	MCS0	4	155	5775	1.03	1.60	0.55	0.35	7.62	29.59	6.41				Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

Appendix B. AC Conducted Emission Test Results

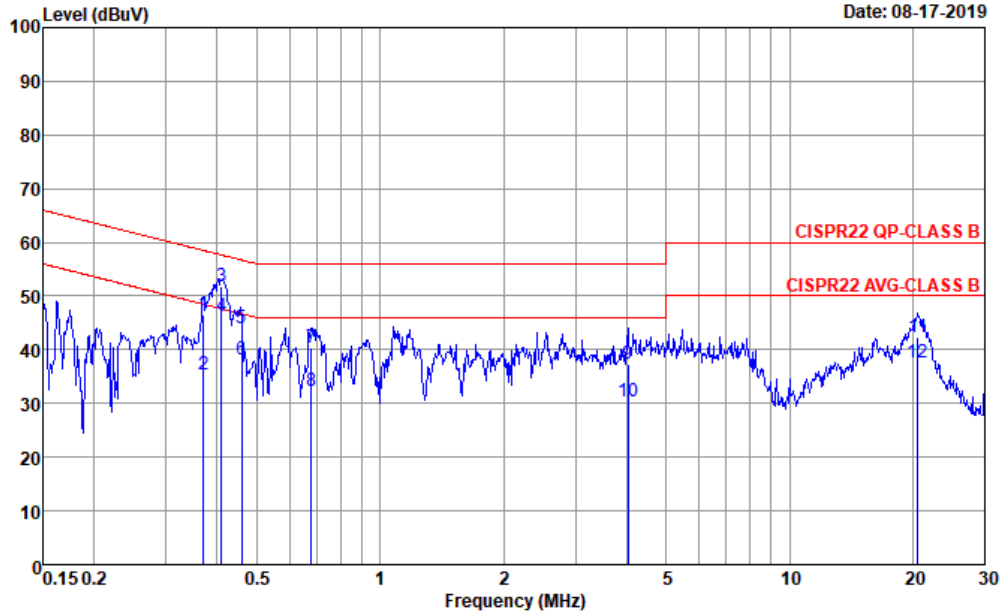
Test Engineer :	Eric Jeng	**Temperature :**	22~25℃
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line



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 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	MIMO Factor (dB)	Grounding Factor (dB)	Peak Avg. (P/A)
802.11ax HE20 CH 149 5745MHz		5625.6	-35.51	-8.51	-27	-56.64	9.42	11.71	0	0	P
		5696.4	-36.66	-44.01	7.35	-57.81	9.42	11.73	0	0	P
		5718.8	-31.54	-46.8	15.26	-52.7	9.42	11.74	0	0	P
		5724.8	-28.91	-55.45	26.54	-50.07	9.42	11.74	0	0	P
	*	5745	22.63	-	-	1.47	9.42	11.74	0	0	P
	*	5745	12.21	-	-	-8.95	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	23.14	-	-	1.93	9.42	11.79	0	0	P
	*	5825	13.26	-	-	-7.95	9.42	11.79	0	0	A
		5850.4	-30.6	-56.69	26.09	-51.84	9.42	11.82	0	0	P
		5856.6	-33.82	-48.97	15.15	-55.07	9.42	11.83	0	0	P
		5920	-33.89	-10.58	-23.31	-55.21	9.42	11.90	0	0	P
		5929.2	-34.66	-7.66	-27	-55.98	9.42	11.90	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5634	-32.53	-5.53	-27	-53.66	9.42	11.71	0	0	P
		5699	-27.41	-36.67	9.26	-48.56	9.42	11.73	0	0	P
		5714.8	-22.35	-36.5	14.15	-43.5	9.42	11.73	0	0	P
		5724.8	-20.29	-46.83	26.54	-41.45	9.42	11.74	0	0	P
	*	5755	21.54	-	-	0.36	9.42	11.76	0	0	P
	*	5755	11.26	-	-	-9.92	9.42	11.76	0	0	A
		5852.2	-35.34	-57.32	21.98	-56.58	9.42	11.82	0	0	P
		5857	-35.11	-50.15	15.04	-56.36	9.42	11.83	0	0	P
		5875.8	-35.6	-45.01	9.41	-56.86	9.42	11.84	0	0	P
		5933.4	-37.96	-10.96	-27	-59.29	9.42	11.91	0	0	P
802.11ax HE40 CH 159 5795MHz		5604.6	-36.28	-9.28	-27	-57.4	9.42	11.7	0	0	P
		5674.8	-30.79	-22.18	-8.61	-51.94	9.42	11.73	0	0	P
		5701.6	-34.28	-44.73	10.45	-55.44	9.42	11.74	0	0	P
		5721	-32.65	-50.53	17.88	-53.81	9.42	11.74	0	0	P
	*	5795	23.65	-	-	2.46	9.42	11.77	0	0	P
	*	5795	11.89	-	-	-9.3	9.42	11.77	0	0	A
		5850	-22.5	-49.5	27	-43.74	9.42	11.82	0	0	P
		5855.4	-25.01	-40.5	15.49	-46.25	9.42	11.82	0	0	P
		5892	-31.69	-29.08	-2.61	-52.97	9.42	11.86	0	0	P
		5927.8	-37.24	-10.24	-27	-58.57	9.42	11.91	0	0	P

Remark

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

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5619.2	-29.96	-2.96	-27	-51.08	9.42	11.7	0	0	P
		5700	-18.59	-28.59	10	-39.74	9.42	11.73	0	0	P
		5719.8	-9.48	-25.02	15.54	-30.64	9.42	11.74	0	0	P
		5720.4	-9.32	-25.83	16.51	-30.48	9.42	11.74	0	0	P
	*	5775	18.11	-	-	-3.07	9.42	11.76	0	0	P
	*	5775	8.04	-	-	-13.14	9.42	11.76	0	0	A
		5850.2	-20.77	-47.31	26.54	-42.01	9.42	11.82	0	0	P
		5863.4	-12.62	-25.87	13.25	-33.88	9.42	11.84	0	0	P
		5876	-20.94	-30.2	9.26	-42.2	9.42	11.84	0	0	P
		5926.4	-30.26	-3.26	-27	-51.59	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5644	-35.2	-8.2	-27	-56.33	9.42	11.71	0	0	P
		5652.2	-35.22	-9.86	-25.36	-56.36	9.42	11.72	0	0	P
		5719.8	-27.22	-42.76	15.54	-48.38	9.42	11.74	0	0	P
		5722.6	-26.55	-48.08	21.53	-47.71	9.42	11.74	0	0	P
	*	5745	23.54	-	-	2.38	9.42	11.74	0	0	P
	*	5745	12.67	-	-	-8.49	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	23.6	-	-	2.39	9.42	11.79	0	0	P
	*	5825	13.06	-	-	-8.15	9.42	11.79	0	0	A
		5850.4	-30.58	-56.67	26.09	-51.82	9.42	11.82	0	0	P
		5860.6	-35.79	-49.82	14.03	-57.04	9.42	11.83	0	0	P
		5917	-34.82	-13.72	-21.1	-56.14	9.42	11.9	0	0	P
		5925.4	-36.79	-9.79	-27	-58.12	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5643.4	-35.96	-8.96	-27	-57.09	9.42	11.71	0	0	P
		5700	-24.68	-34.68	10	-45.83	9.42	11.73	0	0	P
		5719	-20.01	-35.33	15.32	-41.17	9.42	11.74	0	0	P
		5724.4	-17.35	-42.98	25.63	-38.51	9.42	11.74	0	0	P
	*	5755	19.04	-	-	-2.14	9.42	11.76	0	0	P
	*	5755	8.95	-	-	-12.23	9.42	11.76	0	0	A
		5850.8	-34.5	-59.68	25.18	-55.74	9.42	11.82	0	0	P
		5859.6	-34.47	-48.78	14.31	-55.72	9.42	11.83	0	0	P
		5885.2	-37.08	-39.51	2.43	-58.36	9.42	11.86	0	0	P
		5944.4	-37.75	-10.75	-27	-59.09	9.42	11.92	0	0	P
802.11ax HE40 CH 159 5795MHz		5641.4	-36.38	-9.38	-27	-57.51	9.42	11.71	0	0	P
		5683.4	-34.15	-31.9	-2.25	-55.3	9.42	11.73	0	0	P
		5718.6	-32.26	-47.47	15.21	-53.42	9.42	11.74	0	0	P
		5722.4	-27.47	-48.54	21.07	-48.63	9.42	11.74	0	0	P
	*	5795	19.85	-	-	-1.34	9.42	11.77	0	0	P
	*	5795	9.42	-	-	-11.77	9.42	11.77	0	0	A
		5850.2	-21.99	-48.53	26.54	-43.23	9.42	11.82	0	0	P
		5855.6	-24.11	-39.54	15.43	-45.36	9.42	11.83	0	0	P
		5891.8	-31.75	-29.28	-2.47	-53.03	9.42	11.86	0	0	P
		5931.6	-37.16	-10.16	-27	-58.49	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5647	-27.69	-0.69	-27	-48.83	9.42	11.72	0	0	P
		5698.8	-18.36	-27.48	9.12	-39.51	9.42	11.73	0	0	P
		5720	-10.26	-25.86	15.6	-31.42	9.42	11.74	0	0	P
		5721.8	-10.2	-29.91	19.71	-31.36	9.42	11.74	0	0	P
	*	5775	19.54	-	-	-1.64	9.42	11.76	0	0	P
	*	5775	8.16	-	-	-13.02	9.42	11.76	0	0	A
		5850.2	-20.55	-47.09	26.54	-41.79	9.42	11.82	0	0	P
		5863.8	-13.38	-26.51	13.13	-34.64	9.42	11.84	0	0	P
		5875.6	-21.15	-30.7	9.55	-42.41	9.42	11.84	0	0	P
		5932.8	-30.16	-3.16	-27	-51.49	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5646.4	-35.36	-8.36	-27	-56.5	9.42	11.72	0	0	P
		5651.8	-36.26	-10.6	-25.66	-57.4	9.42	11.72	0	0	P
		5718.2	-33.92	-49.02	15.1	-55.08	9.42	11.74	0	0	P
		5724.8	-25.86	-52.4	26.54	-47.02	9.42	11.74	0	0	P
	*	5745	22.39	-	-	1.23	9.42	11.74	0	0	P
	*	5745	11.57	-	-	-9.59	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	24.38	-	-	3.17	9.42	11.79	0	0	P
	*	5825	12.32	-	-	-8.89	9.42	11.79	0	0	A
		5850	-30.31	-57.31	27	-51.55	9.42	11.82	0	0	P
		5856	-36.9	-52.22	15.32	-58.15	9.42	11.83	0	0	P
		5922.6	-36.45	-11.22	-25.23	-57.78	9.42	11.91	0	0	P
		5926	-36.18	-9.18	-27	-57.51	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5645.8	-36.62	-9.62	-27	-57.76	9.42	11.72	0	0	P
		5698.2	-24.67	-33.34	8.67	-45.82	9.42	11.73	0	0	P
		5707.2	-20.96	-32.98	12.02	-42.12	9.42	11.74	0	0	P
		5722.8	-18.05	-40.04	21.99	-39.21	9.42	11.74	0	0	P
	*	5755	21.66	-	-	0.48	9.42	11.76	0	0	P
	*	5755	10.96	-	-	-10.22	9.42	11.76	0	0	A
		5854.4	-35.85	-52.82	16.97	-57.09	9.42	11.82	0	0	P
		5868	-35.47	-47.43	11.96	-56.73	9.42	11.84	0	0	P
		5909	-37.6	-22.41	-15.19	-58.91	9.42	11.89	0	0	P
		5945.2	-37.87	-10.87	-27	-59.22	9.42	11.93	0	0	P
802.11ax HE40 CH 159 5795MHz		5634	-36.52	-9.52	-27	-57.65	9.42	11.71	0	0	P
		5698.6	-33.35	-42.32	8.97	-54.5	9.42	11.73	0	0	P
		5706	-33.09	-44.77	11.68	-54.25	9.42	11.74	0	0	P
		5724.2	-32.61	-57.79	25.18	-53.77	9.42	11.74	0	0	P
	*	5795	22.19	-	-	1	9.42	11.77	0	0	P
	*	5795	11.1	-	-	-10.09	9.42	11.77	0	0	A
		5850.6	-22.5	-48.13	25.63	-43.74	9.42	11.82	0	0	P
		5855	-23.57	-39.17	15.6	-44.81	9.42	11.82	0	0	P
		5888.8	-32.94	-32.7	-0.24	-54.22	9.42	11.86	0	0	P
		5938.6	-37.55	-10.55	-27	-58.89	9.42	11.92	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5624.2	-28.85	-1.85	-27	-49.98	9.42	11.71	0	0	P
		5656	-22.9	-0.36	-22.54	-44.05	9.42	11.73	0	0	P
		5699.6	-19.38	-29.09	9.71	-40.53	9.42	11.73	0	0	P
		5720.2	-13.63	-29.69	16.06	-34.79	9.42	11.74	0	0	P
	*	5775	17.95	-	-	-3.23	9.42	11.76	0	0	P
	*	5775	7.1	-	-	-14.08	9.42	11.76	0	0	A
		5850.6	-20.58	-46.21	25.63	-41.82	9.42	11.82	0	0	P
		5863.2	-18.65	-31.95	13.3	-39.91	9.42	11.84	0	0	P
		5883.8	-26.9	-30.37	3.47	-48.17	9.42	11.85	0	0	P
		5929.2	-32.44	-5.44	-27	-53.76	9.42	11.9	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5647.4	-34.68	-7.68	-27	-55.82	9.42	11.72	0	0	P
		5651.6	-35.3	-9.49	-25.81	-56.44	9.42	11.72	0	0	P
		5714.8	-34.48	-48.63	14.15	-55.63	9.42	11.73	0	0	P
		5722.8	-32.39	-54.38	21.99	-53.55	9.42	11.74	0	0	P
	*	5745	21.29	-	-	0.13	9.42	11.74	0	0	P
	*	5745	11.37	-	-	-9.79	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	22.66	-	-	1.45	9.42	11.79	0	0	P
	*	5825	12.57	-	-	-8.64	9.42	11.79	0	0	A
		5850.2	-32.36	-58.9	26.54	-53.6	9.42	11.82	0	0	P
		5855.6	-37.14	-52.57	15.43	-58.39	9.42	11.83	0	0	P
		5916.2	-35.72	-15.21	-20.51	-57.04	9.42	11.9	0	0	P
		5925.2	-36.57	-9.57	-27	-57.9	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5650	-36.06	-9.06	-27	-57.2	9.42	11.72	0	0	P
		5693.6	-29.79	-35.07	5.28	-50.94	9.42	11.73	0	0	P
		5713	-27.18	-40.82	13.64	-48.33	9.42	11.73	0	0	P
		5725	-20.77	-47.77	27	-41.93	9.42	11.74	0	0	P
	*	5755	20.7	-	-	-0.48	9.42	11.76	0	0	P
	*	5755	10.07	-	-	-11.11	9.42	11.76	0	0	A
		5852	-36.67	-59.11	22.44	-57.91	9.42	11.82	0	0	P
		5859.6	-36.74	-51.05	14.31	-57.99	9.42	11.83	0	0	P
		5906.8	-37.6	-24.03	-13.57	-58.9	9.42	11.88	0	0	P
		5926.8	-38.38	-11.38	-27	-59.71	9.42	11.91	0	0	P
802.11ax HE40 CH 159 5795MHz		5601	-36.01	-9.01	-27	-57.13	9.42	11.7	0	0	P
		5695.6	-33.64	-40.4	6.76	-54.79	9.42	11.73	0	0	P
		5719.8	-34.38	-49.92	15.54	-55.54	9.42	11.74	0	0	P
		5724.4	-32.03	-57.66	25.63	-53.19	9.42	11.74	0	0	P
	*	5795	21.86	-	-	0.67	9.42	11.77	0	0	P
	*	5795	10.81	-	-	-10.38	9.42	11.77	0	0	A
		5851	-25.68	-50.4	24.72	-46.92	9.42	11.82	0	0	P
		5856.2	-27.41	-42.67	15.26	-48.66	9.42	11.83	0	0	P
		5875.4	-35.28	-44.98	9.7	-56.54	9.42	11.84	0	0	P
		5945.8	-37.97	-10.97	-27	-59.32	9.42	11.93	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5640.6	-32.45	-5.45	-27	-53.58	9.42	11.71	0	0	P
		5699.8	-21.41	-31.26	9.85	-42.56	9.42	11.73	0	0	P
		5719.2	-15.92	-31.3	15.38	-37.08	9.42	11.74	0	0	P
		5720.8	-15.31	-32.73	17.42	-36.47	9.42	11.74	0	0	P
	*	5775	17.39	-	-	-3.79	9.42	11.76	0	0	P
	*	5775	6.44	-	-	-14.74	9.42	11.76	0	0	A
		5850	-22.25	-49.25	27	-43.49	9.42	11.82	0	0	P
		5861.4	-19.24	-33.05	13.81	-40.49	9.42	11.83	0	0	P
		5876	-27.86	-37.12	9.26	-49.12	9.42	11.84	0	0	P
		5925.4	-32.68	-5.68	-27	-54.01	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

<Middle Unmodulated>

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	MIMO Factor	Grounding Factor	Peak Avg.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5625.2	-35.17	-8.17	-27	-56.3	9.42	11.71	0	0	P
		5699.4	-24.1	-33.66	9.56	-45.25	9.42	11.73	0	0	P
		5719.8	-9.86	-25.4	15.54	-31.02	9.42	11.74	0	0	P
		5724.6	-2.51	-28.6	26.09	-23.67	9.42	11.74	0	0	P
	*	5745	23.33	-	-	2.17	9.42	11.74	0	0	P
	*	5745	13.61	-	-	-7.55	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	24.41	-	-	3.2	9.42	11.79	0	0	P
	*	5825	13.98	-	-	-7.23	9.42	11.79	0	0	A
		5850	-8.18	-35.18	27	-29.42	9.42	11.82	0	0	P
		5857.2	-14.72	-29.7	14.98	-35.97	9.42	11.83	0	0	P
		5876.2	-22.97	-32.08	9.11	-44.23	9.42	11.84	0	0	P
		5927	-36.05	-9.05	-27	-57.38	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5635.8	-32.66	-5.66	-27	-53.79	9.42	11.71	0	0	P
		5683.4	-23.55	-21.3	-2.25	-44.7	9.42	11.73	0	0	P
		5712.4	-12.84	-26.31	13.47	-34	9.42	11.74	0	0	P
		5724.8	-17.7	-44.24	26.54	-38.86	9.42	11.74	0	0	P
	*	5755	22.6	-	-	1.42	9.42	11.76	0	0	P
	*	5755	12.33	-	-	-8.85	9.42	11.76	0	0	A
		5855	-24.02	-39.62	15.6	-45.26	9.42	11.82	0	0	P
		5857.4	-29.16	-44.09	14.93	-50.41	9.42	11.83	0	0	P
		5876.6	-32.54	-41.35	8.81	-53.8	9.42	11.84	0	0	P
		5928.6	-37.84	-10.84	-27	-59.16	9.42	11.9	0	0	P
802.11ax HE40 CH 159 5795MHz		5620.8	-36.61	-9.61	-27	-57.73	9.42	11.7	0	0	P
		5675.6	-31.08	-23.07	-8.01	-52.23	9.42	11.73	0	0	P
		5719.8	-23.63	-39.17	15.54	-44.79	9.42	11.74	0	0	P
		5723.6	-22.95	-46.76	23.81	-44.11	9.42	11.74	0	0	P
	*	5795	22.58	-	-	1.39	9.42	11.77	0	0	P
	*	5795	12.29	-	-	-8.9	9.42	11.77	0	0	A
		5853.8	-24.45	-42.79	18.34	-45.69	9.42	11.82	0	0	P
		5864	-20.18	-33.26	13.08	-41.44	9.42	11.84	0	0	P
		5875.2	-26.55	-36.4	9.85	-47.81	9.42	11.84	0	0	P
		5929.4	-33.32	-6.32	-27	-54.64	9.42	11.9	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5633	-29.39	-2.39	-27	-50.52	9.42	11.71	0	0	P
		5689.8	-22.5	-24.98	2.48	-43.65	9.42	11.73	0	0	P
		5720	-14.73	-30.33	15.6	-35.89	9.42	11.74	0	0	P
		5724.2	-13.72	-38.9	25.18	-34.88	9.42	11.74	0	0	P
	*	5775	19.24	-	-	-1.94	9.42	11.76	0	0	P
	*	5775	9.67	-	-	-11.51	9.42	11.76	0	0	A
		5852.2	-15.57	-37.55	21.98	-36.81	9.42	11.82	0	0	P
		5855.8	-15.6	-30.98	15.38	-36.85	9.42	11.83	0	0	P
		5875.2	-20.83	-30.68	9.85	-42.09	9.42	11.84	0	0	P
		5926	-27.28	-0.28	-27	-48.61	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5648.4	-36.48	-9.48	-27	-57.62	9.42	11.72	0	0	P
		5699.2	-24.69	-34.1	9.41	-45.84	9.42	11.73	0	0	P
		5720	-9.45	-25.05	15.6	-30.61	9.42	11.74	0	0	P
		5723.6	-5.15	-28.96	23.81	-26.31	9.42	11.74	0	0	P
	*	5745	24.08	-	-	2.92	9.42	11.74	0	0	P
	*	5745	13.57	-	-	-7.59	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	24.28	-	-	3.07	9.42	11.79	0	0	P
	*	5825	13.99	-	-	-7.22	9.42	11.79	0	0	A
		5850.2	-10.48	-37.02	26.54	-31.72	9.42	11.82	0	0	P
		5859.6	-12.12	-26.43	14.31	-33.37	9.42	11.83	0	0	P
		5877.2	-22.45	-30.82	8.37	-43.71	9.42	11.84	0	0	P
		5928	-35.23	-8.23	-27	-56.56	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5649.2	-33.87	-6.87	-27	-55.01	9.42	11.72	0	0	P
		5686.4	-20.55	-20.52	-0.03	-41.71	9.42	11.74	0	0	P
		5713.4	-12.01	-25.76	13.75	-33.16	9.42	11.73	0	0	P
		5721.2	-16.4	-34.74	18.34	-37.56	9.42	11.74	0	0	P
	*	5755	23.36	-	-	2.18	9.42	11.76	0	0	P
	*	5755	12.39	-	-	-8.79	9.42	11.76	0	0	A
		5850.8	-30.5	-55.68	25.18	-51.74	9.42	11.82	0	0	P
		5860.4	-31.49	-45.58	14.09	-52.74	9.42	11.83	0	0	P
		5883.4	-32.62	-36.38	3.76	-53.89	9.42	11.85	0	0	P
		5931.8	-36.72	-9.72	-27	-58.05	9.42	11.91	0	0	P
802.11ax HE40 CH 159 5795MHz		5615	-35.61	-8.61	-27	-56.73	9.42	11.7	0	0	P
		5698.8	-31.97	-41.09	9.12	-53.12	9.42	11.73	0	0	P
		5719.2	-23	-38.38	15.38	-44.16	9.42	11.74	0	0	P
		5724.8	-22.29	-48.83	26.54	-43.45	9.42	11.74	0	0	P
	*	5795	22.82	-	-	1.63	9.42	11.77	0	0	P
	*	5795	11.52	-	-	-9.67	9.42	11.77	0	0	A
		5851.6	-23.5	-46.85	23.35	-44.74	9.42	11.82	0	0	P
		5865.8	-20.78	-33.35	12.57	-42.04	9.42	11.84	0	0	P
		5877	-26.85	-35.36	8.51	-48.11	9.42	11.84	0	0	P
		5926	-34.73	-7.73	-27	-56.06	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5632.4	-27.29	-0.29	-27	-48.42	9.42	11.71	0	0	P
		5694	-20.56	-26.14	5.58	-41.71	9.42	11.73	0	0	P
		5720	-14.68	-30.28	15.6	-35.84	9.42	11.74	0	0	P
		5724.8	-13.16	-39.7	26.54	-34.32	9.42	11.74	0	0	P
	*	5775	19.44	-	-	-1.74	9.42	11.76	0	0	P
	*	5775	9.29	-	-	-11.89	9.42	11.76	0	0	A
		5852.6	-14.97	-36.04	21.07	-36.21	9.42	11.82	0	0	P
		5855.4	-15.13	-30.62	15.49	-36.37	9.42	11.82	0	0	P
		5875.2	-20.93	-30.78	9.85	-42.19	9.42	11.84	0	0	P
		5926.2	-27.28	-0.28	-27	-48.61	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5645	-35.11	-8.11	-27	-56.24	9.42	11.71	0	0	P
		5697.4	-29.07	-37.15	8.08	-50.22	9.42	11.73	0	0	P
		5719.6	-16.06	-31.55	15.49	-37.22	9.42	11.74	0	0	P
		5724.2	-6.98	-32.16	25.18	-28.14	9.42	11.74	0	0	P
	*	5745	22.95	-	-	1.79	9.42	11.74	0	0	P
	*	5745	12.68	-	-	-8.48	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	23.38	-	-	2.17	9.42	11.79	0	0	P
	*	5825	12.65	-	-	-8.56	9.42	11.79	0	0	A
		5850.4	-14.49	-40.58	26.09	-35.73	9.42	11.82	0	0	P
		5858.4	-13.63	-28.28	14.65	-34.88	9.42	11.83	0	0	P
		5880.8	-29.52	-35.21	5.69	-50.79	9.42	11.85	0	0	P
		5929.2	-35.77	-8.77	-27	-57.09	9.42	11.9	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5649.4	-32.4	-5.4	-27	-53.54	9.42	11.72	0	0	P
		5683.4	-22.95	-20.7	-2.25	-44.1	9.42	11.73	0	0	P
		5710.2	-15.37	-28.23	12.86	-36.53	9.42	11.74	0	0	P
		5723.6	-19.71	-43.52	23.81	-40.87	9.42	11.74	0	0	P
	*	5755	21.15	-	-	-0.03	9.42	11.76	0	0	P
	*	5755	10.9	-	-	-10.28	9.42	11.76	0	0	A
		5851.6	-32.56	-55.91	23.35	-53.8	9.42	11.82	0	0	P
		5858.6	-33.93	-48.52	14.59	-55.18	9.42	11.83	0	0	P
		5889	-35.76	-35.37	-0.39	-57.04	9.42	11.86	0	0	P
		5930.4	-37.26	-10.26	-27	-58.59	9.42	11.91	0	0	P
802.11ax HE40 CH 159 5795MHz		5601.6	-36.02	-9.02	-27	-57.14	9.42	11.7	0	0	P
		5695.4	-34.89	-41.5	6.61	-56.04	9.42	11.73	0	0	P
		5718	-30.13	-45.17	15.04	-51.29	9.42	11.74	0	0	P
		5721.2	-29.89	-48.23	18.34	-51.05	9.42	11.74	0	0	P
	*	5795	22.94	-	-	1.75	9.42	11.77	0	0	P
	*	5795	10.99	-	-	-10.2	9.42	11.77	0	0	A
		5850.4	-25.72	-51.81	26.09	-46.96	9.42	11.82	0	0	P
		5866.2	-27.62	-40.08	12.46	-48.88	9.42	11.84	0	0	P
		5877.2	-32.89	-41.26	8.37	-54.15	9.42	11.84	0	0	P
		5949.2	-37.61	-10.61	-27	-58.96	9.42	11.93	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5626.2	-28.03	-1.03	-27	-49.16	9.42	11.71	0	0	P
		5687	-19.34	-19.75	0.41	-40.5	9.42	11.74	0	0	P
		5718.2	-17.8	-32.9	15.1	-38.96	9.42	11.74	0	0	P
		5724	-16.36	-41.08	24.72	-37.52	9.42	11.74	0	0	P
	*	5775	19.49	-	-	-1.69	9.42	11.76	0	0	P
	*	5775	8.39	-	-	-12.79	9.42	11.76	0	0	A
		5852.4	-18.1	-39.63	21.53	-39.34	9.42	11.82	0	0	P
		5855	-18.22	-33.82	15.6	-39.46	9.42	11.82	0	0	P
		5875.6	-21	-30.55	9.55	-42.26	9.42	11.84	0	0	P
		5928.4	-30.56	-3.56	-27	-51.89	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE20 CH 149 5745MHz		5641.2	-34.07	-7.07	-27	-55.2	9.42	11.71	0	0	P
		5697.8	-28.51	-36.89	8.38	-49.66	9.42	11.73	0	0	P
		5711.6	-16.46	-29.71	13.25	-37.62	9.42	11.74	0	0	P
		5722.8	-10.35	-32.34	21.99	-31.51	9.42	11.74	0	0	P
	*	5745	23.56	-	-	2.4	9.42	11.74	0	0	P
	*	5745	12.82	-	-	-8.34	9.42	11.74	0	0	A
802.11ax HE20 CH 165 5825MHz	*	5825	23.46	-	-	2.25	9.42	11.79	0	0	P
	*	5825	13.26	-	-	-7.95	9.42	11.79	0	0	A
		5850.2	-14.71	-41.25	26.54	-35.95	9.42	11.82	0	0	P
		5857.6	-15.55	-30.42	14.87	-36.8	9.42	11.83	0	0	P
		5885.2	-28.82	-31.25	2.43	-50.1	9.42	11.86	0	0	P
		5925	-35.7	-8.7	-27	-57.03	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE40 CH 151 5755MHz		5644.2	-34.92	-7.92	-27	-56.05	9.42	11.71	0	0	P
		5696.2	-28.85	-36.05	7.2	-50	9.42	11.73	0	0	P
		5713.8	-22.83	-36.7	13.87	-43.98	9.42	11.73	0	0	P
		5725	-21.25	-48.25	27	-42.41	9.42	11.74	0	0	P
	*	5755	21.35	-	-	0.17	9.42	11.76	0	0	P
	*	5755	10.68	-	-	-10.5	9.42	11.76	0	0	A
		5852.2	-35.34	-57.32	21.98	-56.58	9.42	11.82	0	0	P
		5853.8	-37.56	-55.9	18.34	-58.8	9.42	11.84	0	0	P
		5867.4	-37.14	-49.27	12.13	-58.4	9.42	11.91	0	0	P
		5923.6	-37.59	-11.62	-25.97	-58.92	9.42	11.91	0	0	P
802.11ax HE40 CH 159 5795MHz		5613.6	-37.15	-10.15	-27	-58.27	9.42	11.7	0	0	P
		5684.8	-31.64	-30.43	-1.21	-52.8	9.42	11.74	0	0	P
		5719.2	-23.73	-39.11	15.38	-44.89	9.42	11.74	0	0	P
		5721.8	-21.84	-41.55	19.71	-43	9.42	11.74	0	0	P
	*	5795	22.29	-	-	1.1	9.42	11.77	0	0	P
	*	5795	11.58	-	-	-9.61	9.42	11.77	0	0	A
		5853.2	-24.66	-44.36	19.7	-45.9	9.42	11.82	0	0	P
		5861	-20.91	-34.83	13.92	-42.16	9.42	11.83	0	0	P
		5876	-27.76	-37.02	9.26	-49.02	9.42	11.84	0	0	P
		5928	-36.98	-9.98	-27	-58.31	9.42	11.91	0	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.										

Band 4 - 5725~5850MHz

WIFI 802.11ax HE80 (Band Edge)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	MIMO	Grounding	Peak
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor	Avg.
4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(dB)	(P/A)
802.11ax HE80 CH 155 5775MHz		5633.4	-31.32	-4.32	-27	-52.45	9.42	11.71	0	0	P
		5664	-25.42	-8.81	-16.61	-46.56	9.42	11.72	0	0	P
		5719.6	-18.85	-34.34	15.49	-40.01	9.42	11.74	0	0	P
		5725	-17.9	-44.9	27	-39.06	9.42	11.74	0	0	P
	*	5775	17.72	-	-	-3.46	9.42	11.76	0	0	P
	*	5775	8.1	-	-	-13.08	9.42	11.76	0	0	A
		5854.2	-18.77	-36.19	17.42	-40.01	9.42	11.82	0	0	P
		5855.8	-18.82	-34.2	15.38	-40.07	9.42	11.83	0	0	P
		5875	-22.85	-32.85	10	-44.11	9.42	11.84	0	0	P
		5930	-32.32	-5.32	-27	-53.65	9.42	11.91	0	0	P
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”.

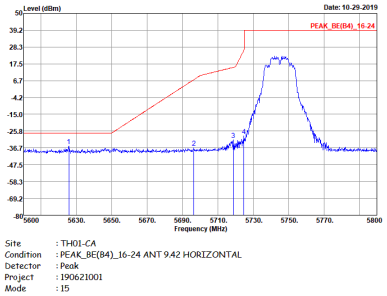
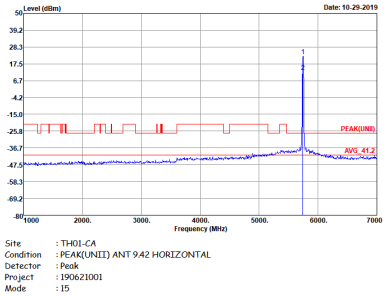
Appendix D. Conducted Spurious Emission Plots

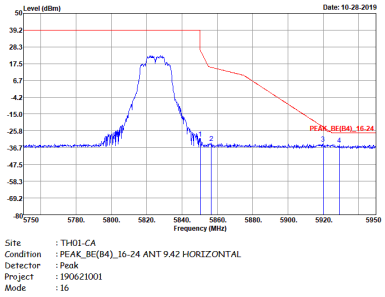
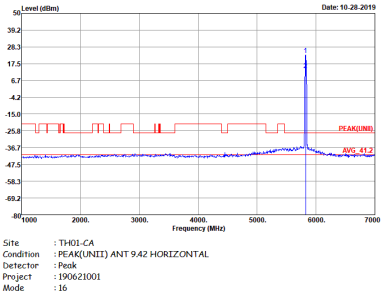
Test Engineer :	Jordan Huang	Temperature :	23~25°C
		Relative Humidity :	52~58%

<Band-edge Unmodulated>

Band 4 - 5725~5850MHz

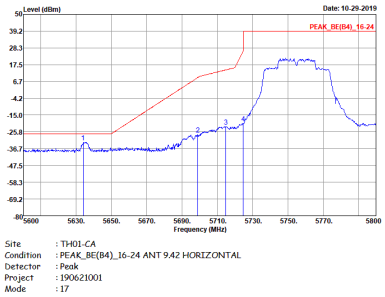
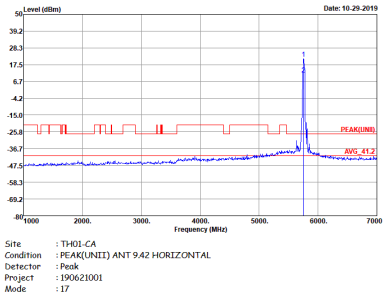
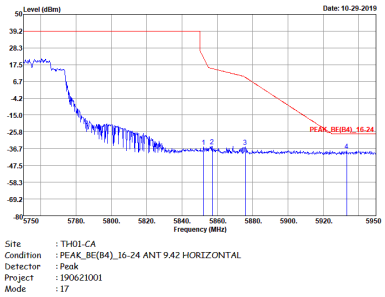
802.11ax HE20 (Band Edge)

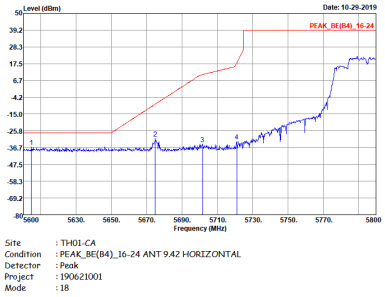
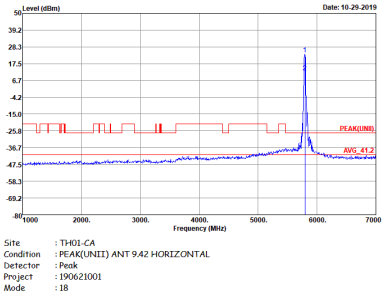
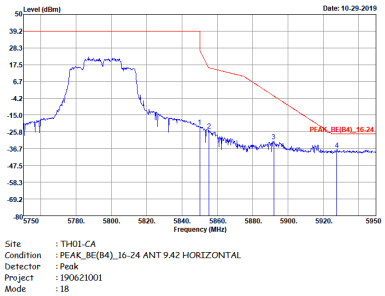
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
1	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16

Band 4 - 5725~5850MHz

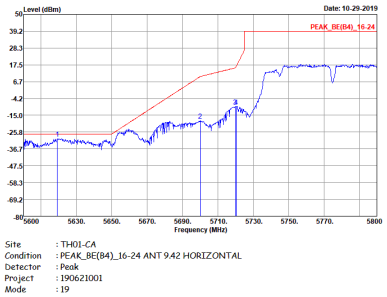
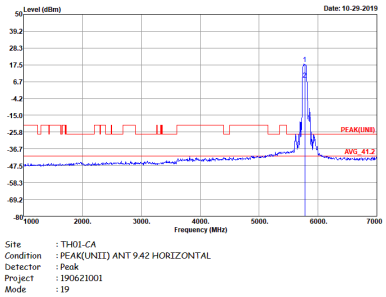
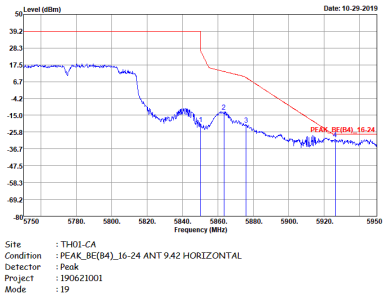
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
1	CSE	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
1	CSE	Fundamental
Peak		
eak		Left blank

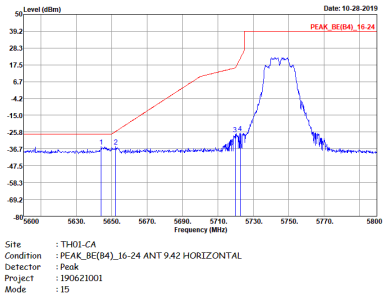
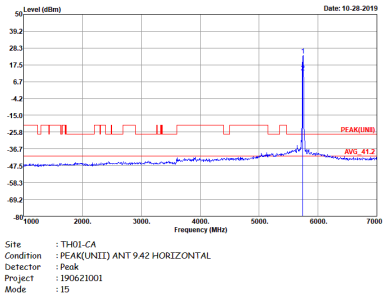
Band 4 - 5725~5850MHz

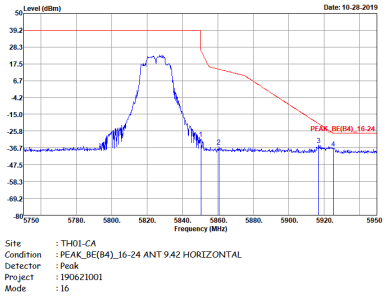
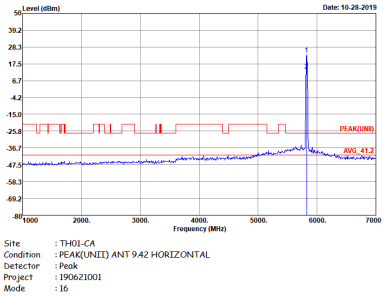
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
1	CSE	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

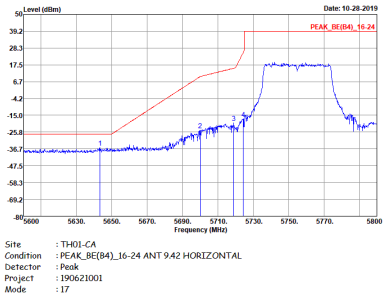
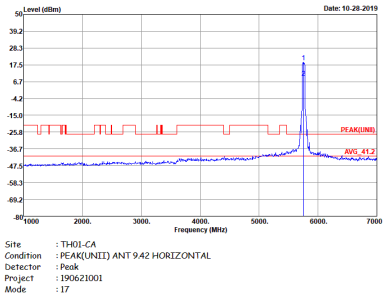
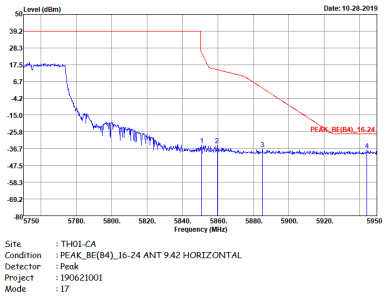
802.11ax HE20 (Band Edge)

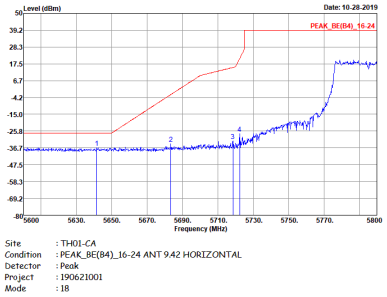
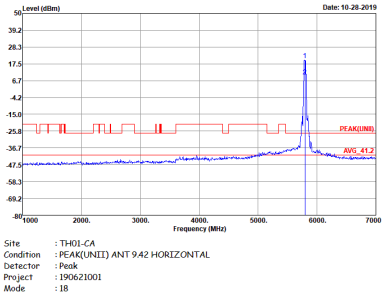
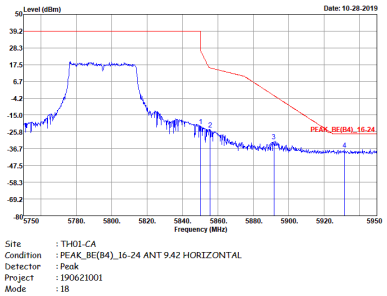
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
2	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
2	CSE	Fundamental
Peak		

Band 4 - 5725~5850MHz

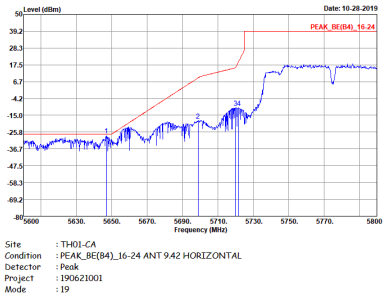
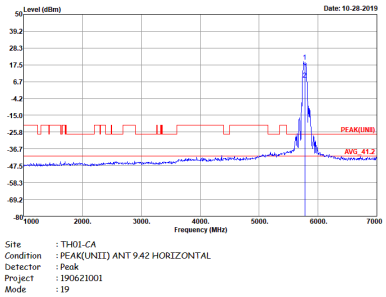
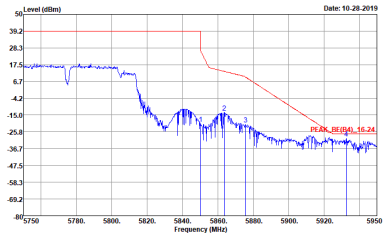
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
2	CSE	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18
eak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	Left blank

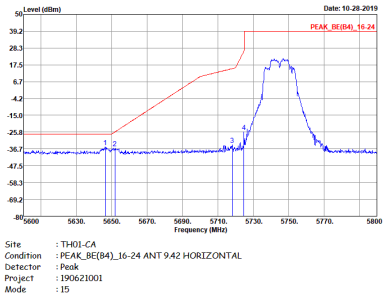
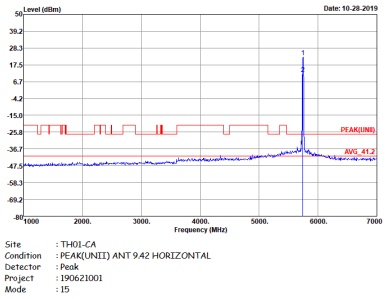
Band 4 - 5725~5850MHz

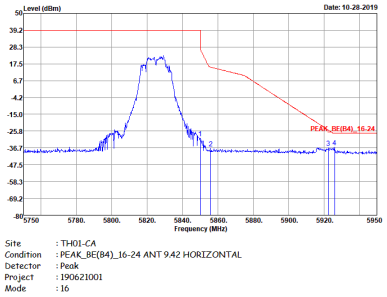
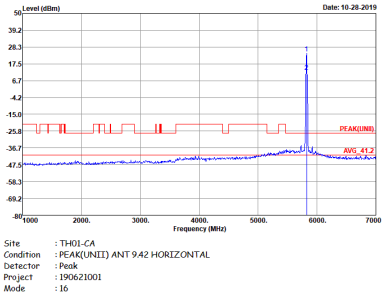
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(84)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19
Peak	 Site : TH01-CA Condition : PEAK_BE(84)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	Left blank

Band 4 - 5725~5850MHz

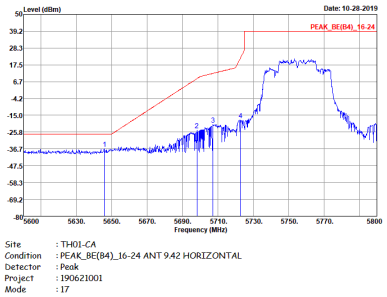
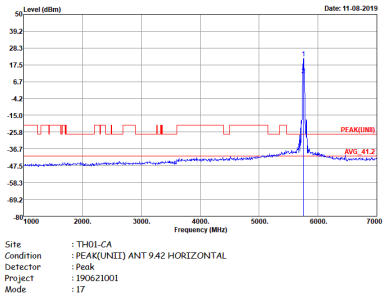
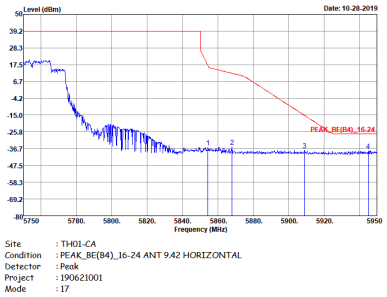
802.11ax HE20 (Band Edge)

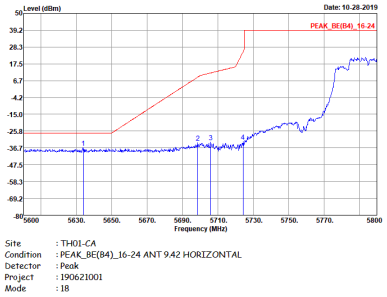
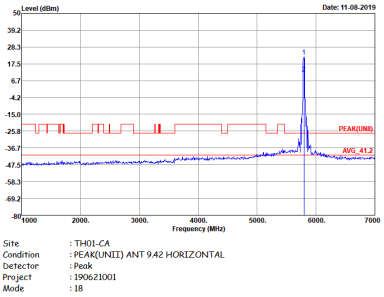
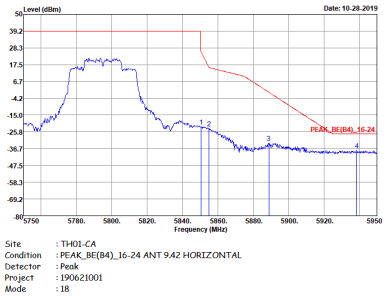
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
3	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16

Band 4 - 5725~5850MHz

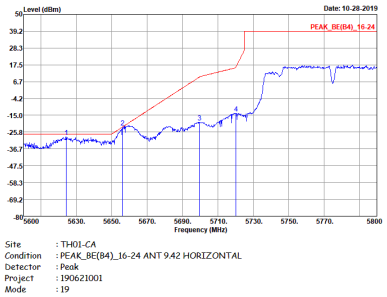
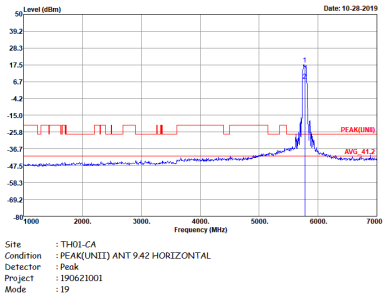
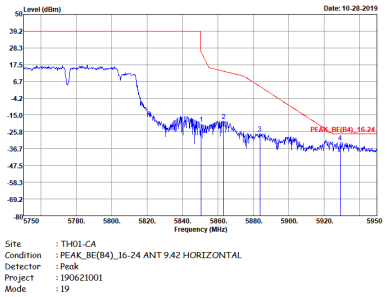
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
3	CSE	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18
eak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	Left blank

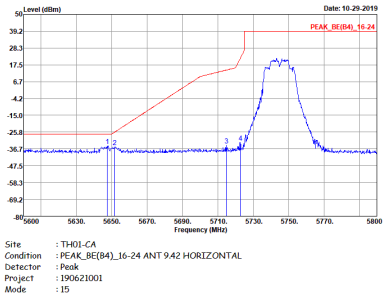
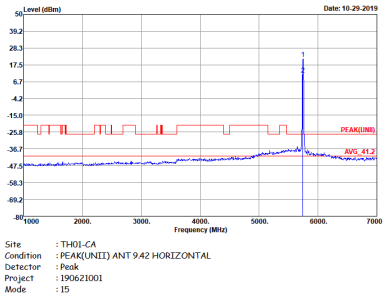
Band 4 - 5725~5850MHz

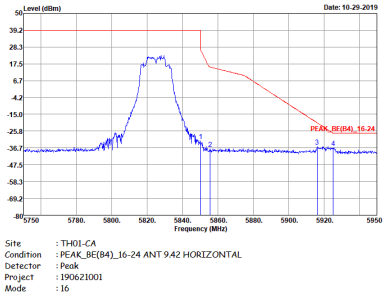
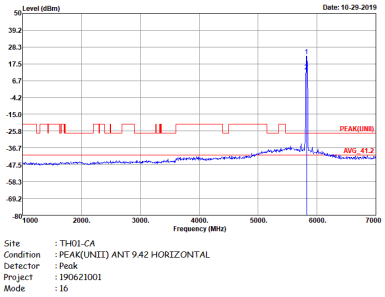
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
3	CSE	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

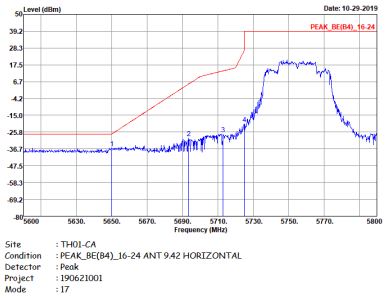
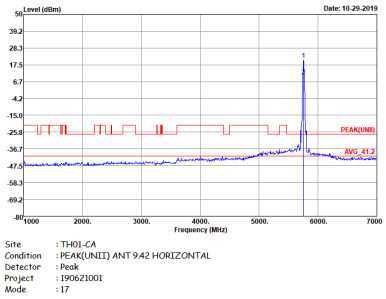
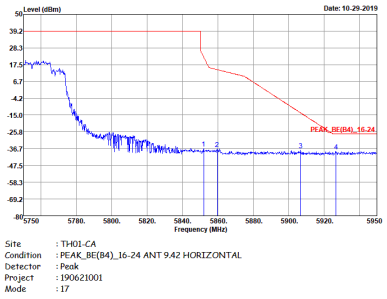
802.11ax HE20 (Band Edge)

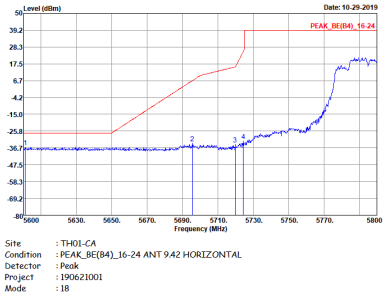
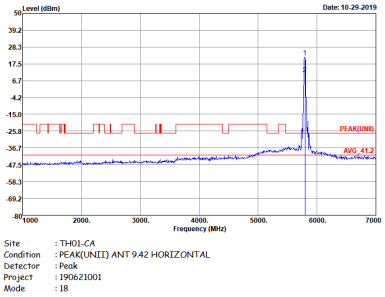
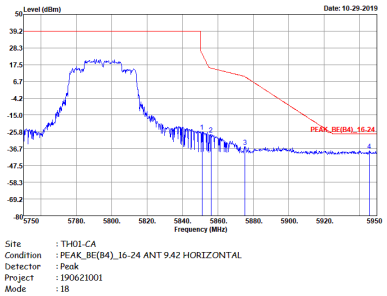
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
4	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16

Band 4 - 5725~5850MHz

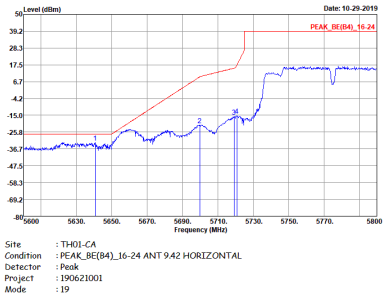
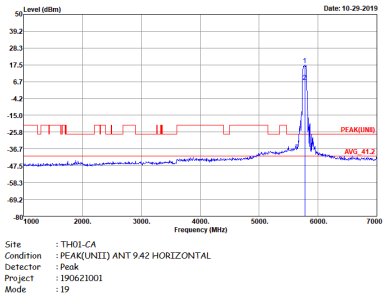
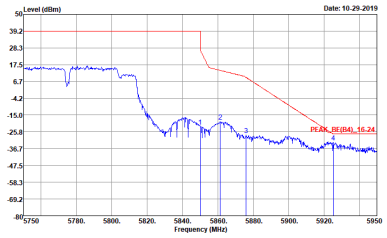
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
4	CSE	Fundamental
Peak		
eak		Left blank

Band 4 - 5725~5850MHz

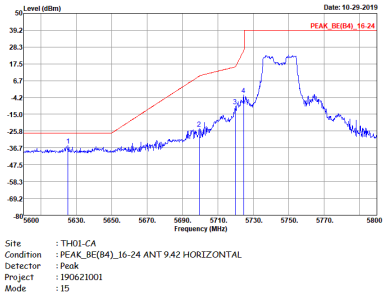
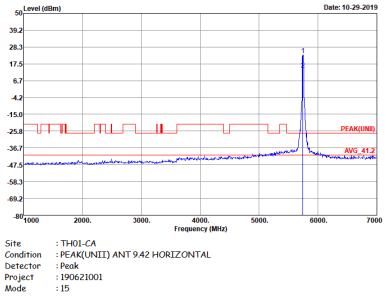
802.11ax HE80 (Band Edge)

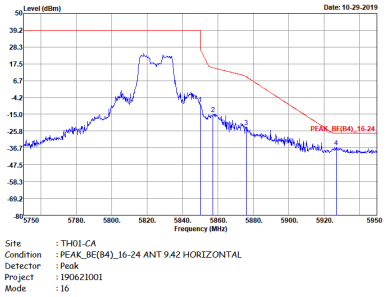
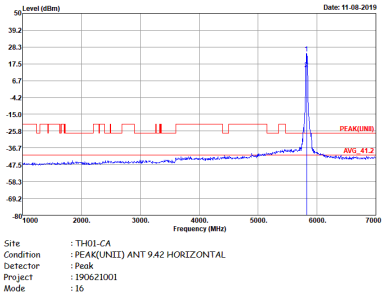
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(84)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19
Peak	 Site : TH01-CA Condition : PEAK_BE(84)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	Left blank

<Middle Unmodulated>

Band 4 - 5725~5850MHz

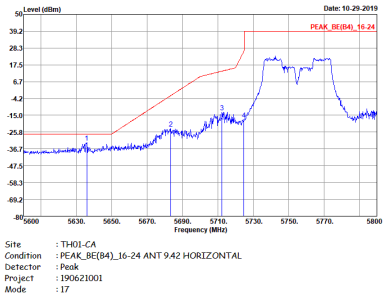
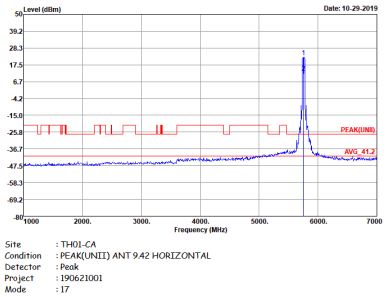
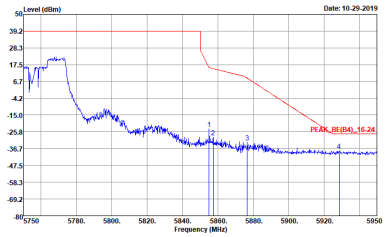
802.11ax HE20 (Band Edge)

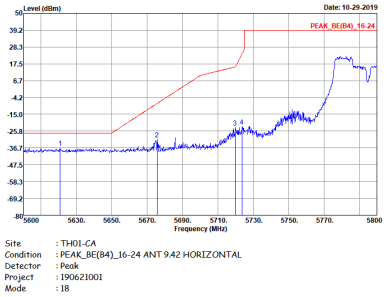
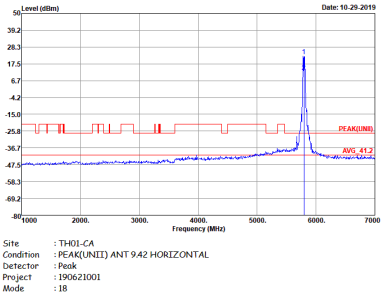
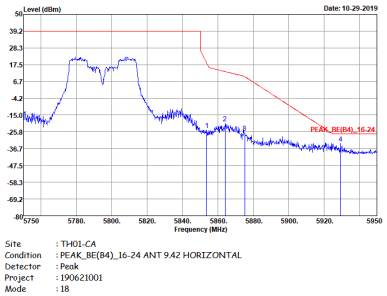
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
1	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16

Band 4 - 5725~5850MHz

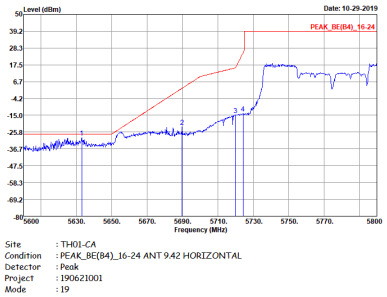
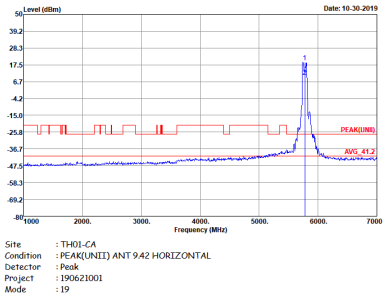
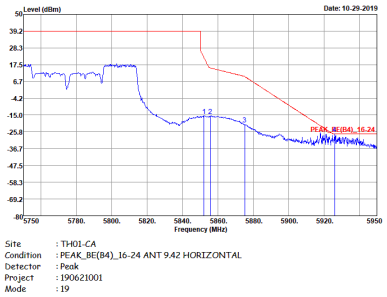
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
1	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18
eak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	Left blank

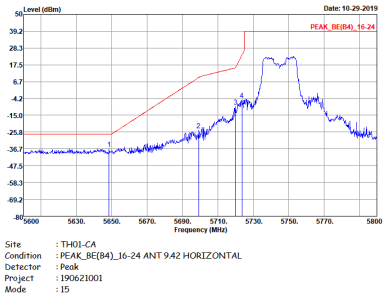
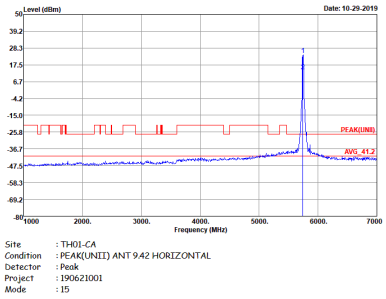
Band 4 - 5725~5850MHz

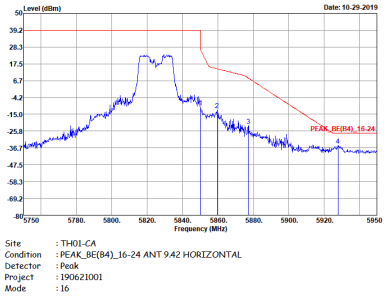
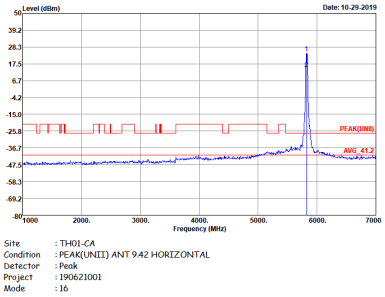
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
1	CSE	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

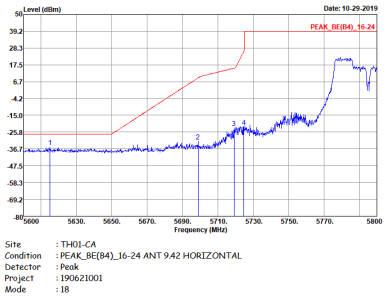
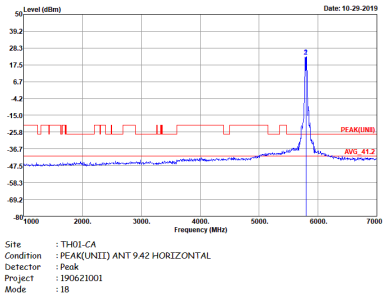
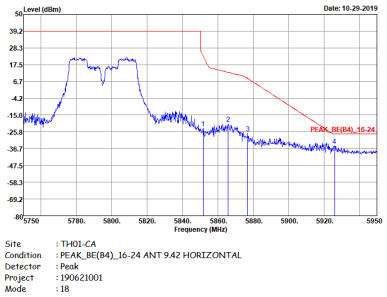
802.11ax HE20 (Band Edge)

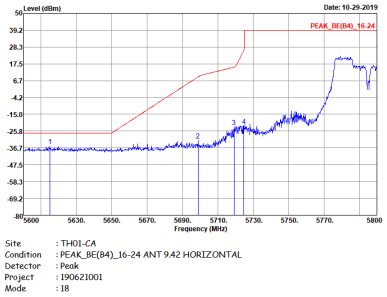
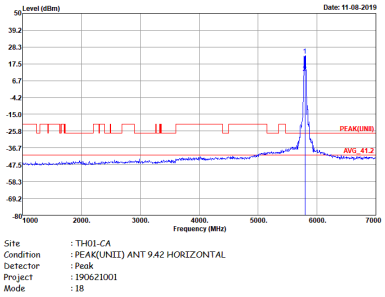
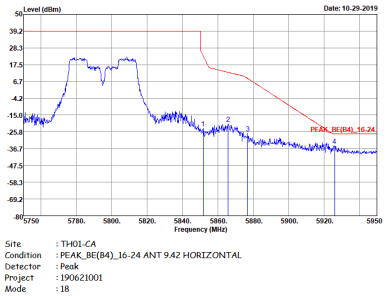
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
2	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
2	CSE	Fundamental
Peak		

Band 4 - 5725~5850MHz

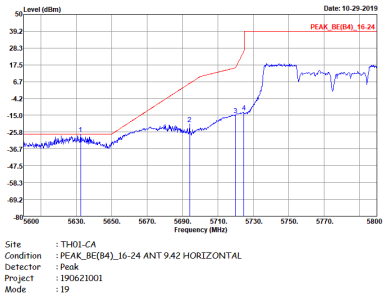
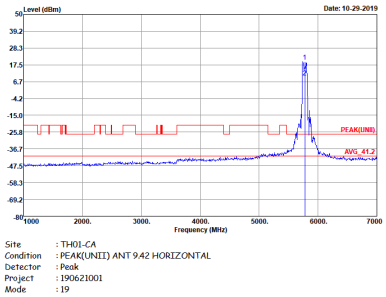
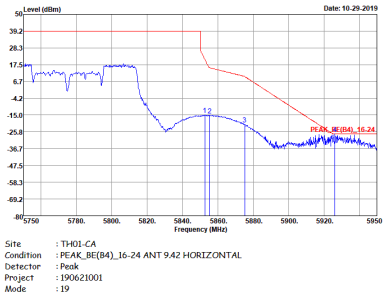
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
2	CSE	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
2	CSE	Fundamental
Peak		
eak		Left blank

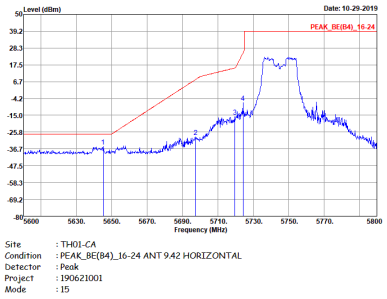
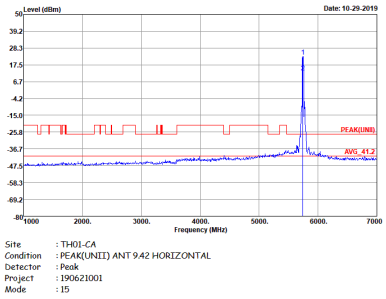
Band 4 - 5725~5850MHz

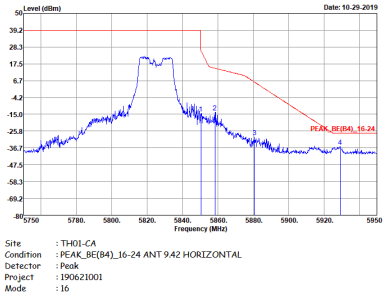
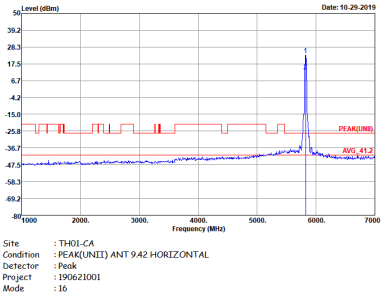
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
2	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	Left blank

Band 4 - 5725~5850MHz

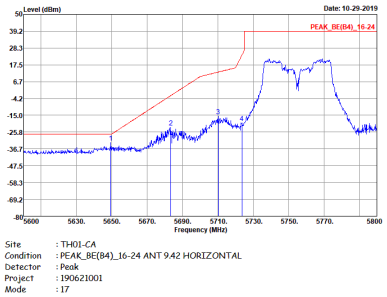
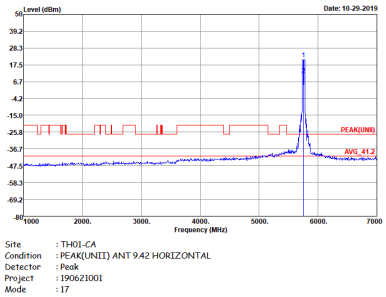
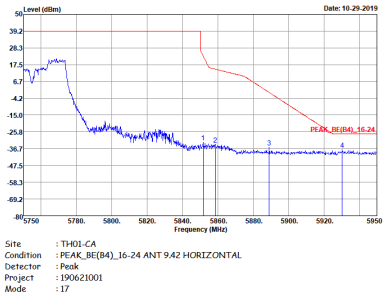
802.11ax HE20 (Band Edge)

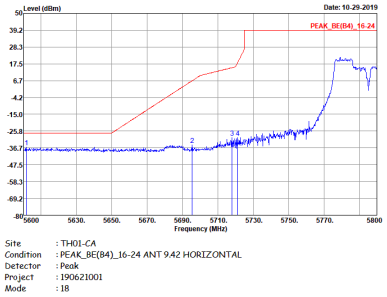
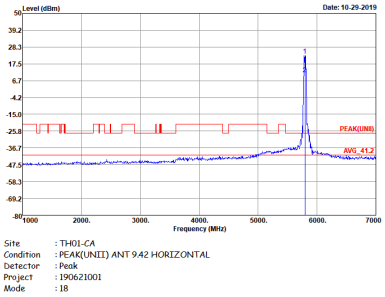
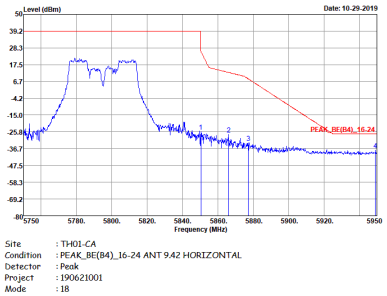
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
3	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 16

Band 4 - 5725~5850MHz

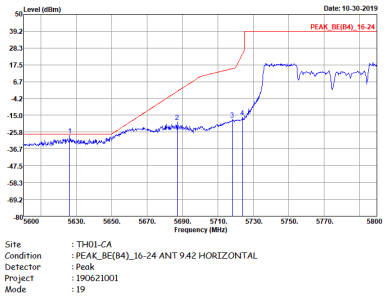
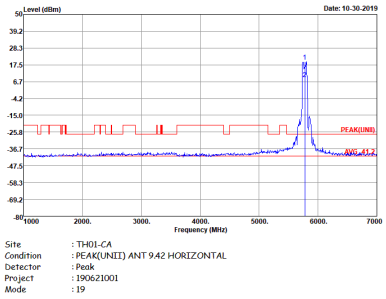
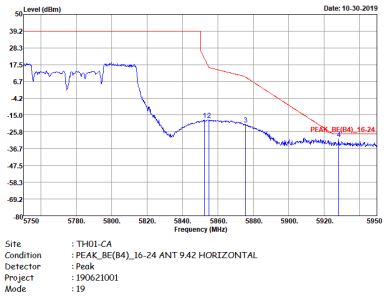
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
3	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
3	CSE	Fundamental
Peak		
eak		Left blank

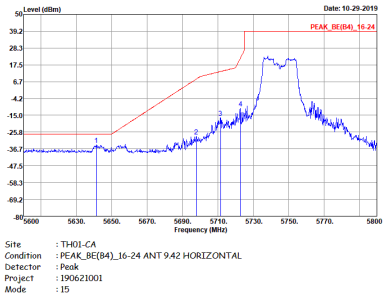
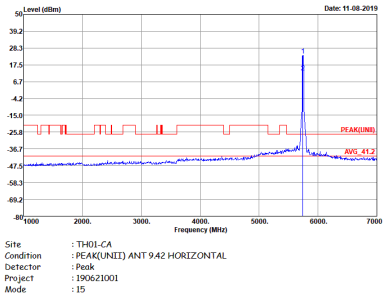
Band 4 - 5725~5850MHz

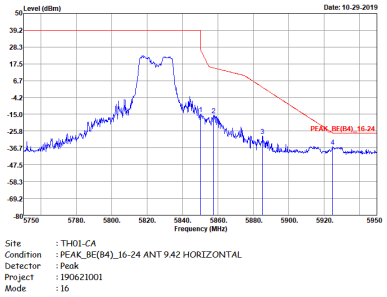
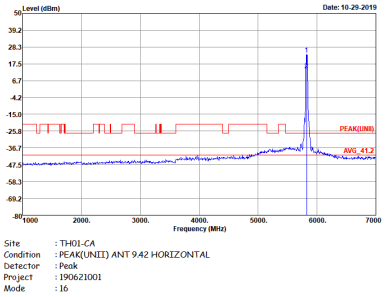
802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
3	CSE	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

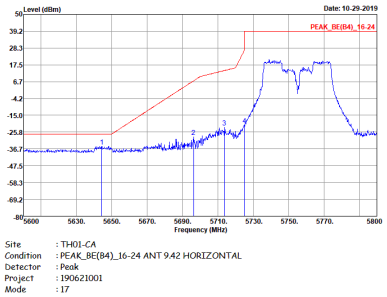
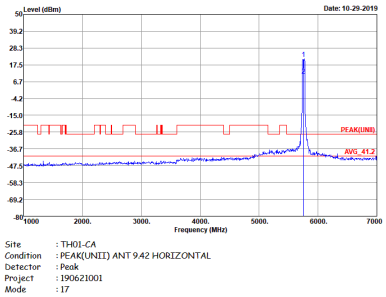
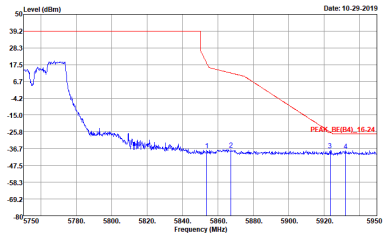
802.11ax HE20 (Band Edge)

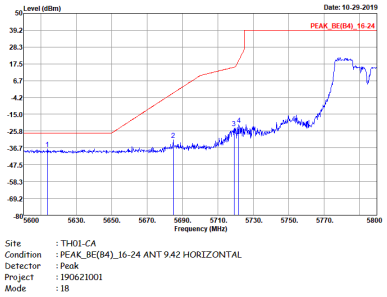
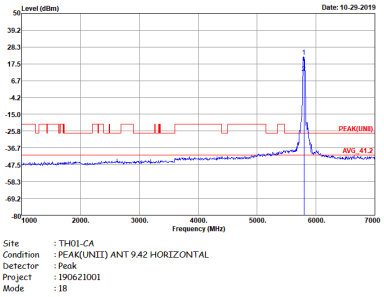
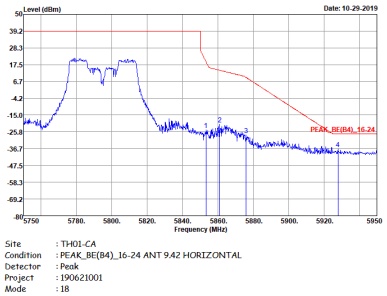
WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH149 5745MHz	
4	CSE	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE20 CH165 5825MHz	
4	CSE	Fundamental
Peak		

Band 4 - 5725~5850MHz

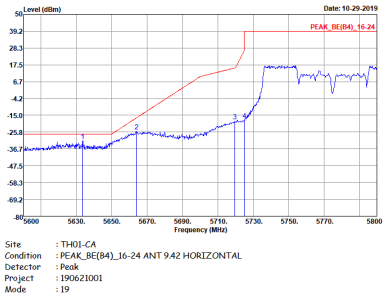
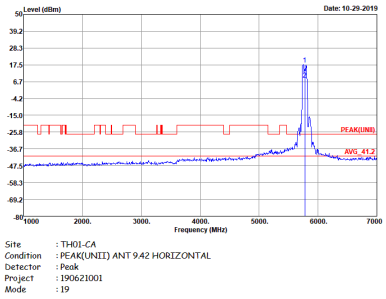
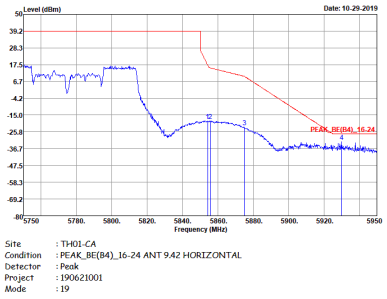
802.11ax HE40 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH151 5755MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 17	Left blank

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE40 CH159 5795MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18
eak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 18	Left blank

Band 4 - 5725~5850MHz

802.11ax HE80 (Band Edge)

WIFI	Band 4 5725~5850MHz Band Edge	
ANT	802.11ax HE80 CH155 5775MHz	
4	CSE	Fundamental
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	 Site : TH01-CA Condition : PEAK(UNII) ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19
Peak	 Site : TH01-CA Condition : PEAK_BE(B4)_16-24 ANT 9.42 HORIZONTAL Detector : Peak Project : 190621001 Mode : 19	Left blank

Appendix E. Radiated Spurious Emission

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

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5648	54.67	-13.53	68.2	41.9	32.11	11.6	30.94	300	320	P	H
		5650.8	53.79	-15	68.79	41.01	32.11	11.61	30.94	300	320	P	H
		5718.4	58.43	-51.92	110.35	45.47	32.21	11.71	30.96	300	320	P	H
		5724	67.08	-52.84	119.92	54.12	32.21	11.72	30.97	300	320	P	H
	*	5745	119	-	-	105.98	32.24	11.75	30.97	300	320	P	H
	*	5745	111.33	-	-	98.31	32.24	11.75	30.97	300	320	A	H
													H
													H
		5643.6	56.79	-11.41	68.2	44.03	32.1	11.6	30.94	300	94	P	V
		5650.4	56.35	-12.15	68.5	43.57	32.11	11.61	30.94	300	94	P	V
		5719.4	59.57	-51.06	110.63	46.6	32.21	11.72	30.96	300	94	P	V
		5721.4	62.46	-51.53	113.99	49.5	32.21	11.72	30.97	300	94	P	V
	*	5745	120.55	-	-	107.53	32.24	11.75	30.97	300	94	P	V
	*	5745	113.27	-	-	100.25	32.24	11.75	30.97	300	94	A	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.4	53.79	-14.41	68.2	41.01	32.11	11.61	30.94	323	47	P	H
		5692.4	55.48	-44.12	99.6	42.6	32.17	11.67	30.96	323	47	P	H
		5712	53.74	-54.82	108.56	40.8	32.2	11.7	30.96	323	47	P	H
		5721.8	52.61	-62.29	114.9	39.65	32.21	11.72	30.97	323	47	P	H
	*	5785	119.07	-	-	105.94	32.3	11.82	30.99	323	47	P	H
	*	5785	111.38	-	-	98.25	32.3	11.82	30.99	323	47	A	H
		5854.4	52.13	-60.04	112.17	38.87	32.4	11.87	31.01	323	47	P	H
		5861.8	53.94	-54.95	108.89	40.67	32.41	11.87	31.01	323	47	P	H
		5883.4	55.59	-43.37	98.96	42.28	32.44	11.89	31.02	323	47	P	H
		5942.4	52.94	-15.26	68.2	39.54	32.52	11.92	31.04	323	47	P	H
													H
802.11a CH 157 5785MHz													H
		5618.6	53.43	-14.77	68.2	40.73	32.07	11.56	30.93	312	93	P	V
		5687.4	57.53	-38.38	95.91	44.65	32.16	11.67	30.95	312	93	P	V
		5702.8	54.55	-51.44	105.99	41.64	32.18	11.69	30.96	312	93	P	V
		5724	52.23	-67.69	119.92	39.27	32.21	11.72	30.97	312	93	P	V
	*	5785	120.24	-	-	107.11	32.3	11.82	30.99	312	93	P	V
	*	5785	112.91	-	-	99.78	32.3	11.82	30.99	312	93	A	V
		5852.8	52.7	-63.12	115.82	39.45	32.39	11.87	31.01	312	93	P	V
		5874.6	54.91	-50.4	105.31	41.63	32.42	11.88	31.02	312	93	P	V
		5887	56.11	-40.18	96.29	42.8	32.44	11.89	31.02	312	93	P	V
		5935.6	55.53	-12.67	68.2	42.15	32.51	11.91	31.04	312	93	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	118.71	-	-	105.51	32.35	11.85	31	320	16	P	H
	*	5825	111.33	-	-	98.13	32.35	11.85	31	320	16	A	H
		5850.6	54.78	-66.05	120.83	41.53	32.39	11.87	31.01	320	16	P	H
		5858	55.87	-54.09	109.96	42.61	32.4	11.87	31.01	320	16	P	H
		5919	54.91	-17.71	72.62	41.54	32.49	11.91	31.03	320	16	P	H
		5935.6	52.29	-15.91	68.2	38.91	32.51	11.91	31.04	320	16	P	H
													H
802.11a													H
CH 165	*	5825	120.26	-	-	107.06	32.35	11.85	31	310	92	P	V
5825MHz	*	5825	113.02	-	-	99.82	32.35	11.85	31	310	92	A	V
		5852	57.6	-60.04	117.64	44.35	32.39	11.87	31.01	310	92	P	V
		5859	56.41	-53.27	109.68	43.15	32.4	11.87	31.01	310	92	P	V
		5917.6	57.78	-15.88	73.66	44.43	32.48	11.9	31.03	310	92	P	V
		5925.8	54.58	-13.62	68.2	41.2	32.5	11.91	31.03	310	92	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

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 149 5745MHz		11490	58.55	-15.45	74	60.69	40.1	17.16	59.4	278	130	P	H
		11490	49.37	-4.63	54	51.51	40.1	17.16	59.4	278	130	A	H
		17235	48.89	-19.31	68.2	44.91	40.95	21.42	58.39	100	0	P	H
													H
		11490	63.78	-10.22	74	65.92	40.1	17.16	59.4	264	146	P	V
		11490	52.99	-1.01	54	55.13	40.1	17.16	59.4	264	146	A	V
		17235	49.2	-19	68.2	45.22	40.95	21.42	58.39	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	59.53	-14.47	74	61.89	39.97	17.21	59.54	280	131	P	H
		11570	49.82	-4.18	54	52.18	39.97	17.21	59.54	280	131	A	H
		17355	49.24	-18.96	68.2	44.38	41.38	21.51	58.03	100	0	P	H
													H
		11570	63.97	-10.03	74	66.33	39.97	17.21	59.54	277	273	P	V
		11570	53.21	-0.79	54	55.57	39.97	17.21	59.54	277	273	A	V
		17355	48.9	-19.3	68.2	44.04	41.38	21.51	58.03	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	58.25	-15.75	74	60.86	39.83	17.26	59.7	280	134	P	H
		11650	48.6	-5.4	54	51.21	39.83	17.26	59.7	280	134	A	H
		17475	49.7	-18.5	68.2	43.97	41.81	21.59	57.67	100	0	P	H
													H
		11650	64.04	-9.96	74	66.65	39.83	17.26	59.7	325	274	P	V
		11650	53.56	-0.44	54	56.17	39.83	17.26	59.7	325	274	A	V
		17475	49.63	-18.57	68.2	43.9	41.81	21.59	57.67	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 (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)
		5648	55.66	-12.54	68.2	42.89	32.11	11.6	30.94	241	267	P	H
		5651.2	54.34	-14.75	69.09	41.56	32.11	11.61	30.94	241	267	P	H
		5720	62.93	-47.87	110.8	49.96	32.21	11.72	30.96	241	267	P	H
		5724.4	67.26	-53.57	120.83	54.3	32.21	11.72	30.97	241	267	P	H
	*	5745	120.93	-	-	107.91	32.24	11.75	30.97	241	267	P	H
	*	5745	111.71	-	-	98.69	32.24	11.75	30.97	241	267	A	H
802.11ax													H
HE20													H
CH 149		5641	57.7	-10.5	68.2	44.95	32.1	11.59	30.94	304	94	P	V
5745MHz		5653.2	56.11	-14.47	70.58	43.33	32.11	11.61	30.94	304	94	P	V
		5718.8	61.69	-48.77	110.46	48.73	32.21	11.71	30.96	304	94	P	V
		5723.2	67.8	-50.3	118.1	54.84	32.21	11.72	30.97	304	94	P	V
	*	5745	122.31	-	-	109.29	32.24	11.75	30.97	304	94	P	V
	*	5745	113.24	-	-	100.22	32.24	11.75	30.97	304	94	A	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5637.8	53.44	-14.76	68.2	40.7	32.09	11.59	30.94	325	334	P	H
		5688.2	55.84	-40.66	96.5	42.96	32.16	11.67	30.95	325	334	P	H
		5715.2	53.85	-55.61	109.46	40.9	32.2	11.71	30.96	325	334	P	H
		5720.4	53.39	-58.32	111.71	40.42	32.21	11.72	30.96	325	334	P	H
	*	5785	120.38	-	-	107.25	32.3	11.82	30.99	325	334	P	H
	*	5785	111.31	-	-	98.18	32.3	11.82	30.99	325	334	A	H
		5852.6	51.8	-64.47	116.27	38.55	32.39	11.87	31.01	325	334	P	H
		5874.6	53.48	-51.83	105.31	40.2	32.42	11.88	31.02	325	334	P	H
		5884	55.22	-43.3	98.52	41.91	32.44	11.89	31.02	325	334	P	H
		5942.4	52.35	-15.85	68.2	38.95	32.52	11.92	31.04	325	334	P	H
802.11ax													H
HE20													H
CH 157		5605.8	54.83	-13.37	68.2	42.17	32.05	11.54	30.93	300	96	P	V
5785MHz		5694	57.55	-43.23	100.78	44.66	32.17	11.68	30.96	300	96	P	V
		5704	54.6	-51.72	106.32	41.68	32.19	11.69	30.96	300	96	P	V
		5721.2	54.05	-59.49	113.54	41.09	32.21	11.72	30.97	300	96	P	V
	*	5785	120.91	-	-	107.78	32.3	11.82	30.99	300	96	P	V
	*	5785	112.42	-	-	99.29	32.3	11.82	30.99	300	96	P	V
		5850	52.28	-69.92	122.2	39.03	32.39	11.87	31.01	300	96	P	V
		5874.4	54.89	-50.48	105.37	41.61	32.42	11.88	31.02	300	96	P	V
		5886.8	55.97	-40.47	96.44	42.66	32.44	11.89	31.02	300	96	P	V
		5934.4	55.81	-12.39	68.2	42.43	32.51	11.91	31.04	300	96	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	122.15	-	-	108.95	32.35	11.85	31	244	238	P	H
	*	5825	112.06	-	-	98.86	32.35	11.85	31	244	238	A	H
		5850	65	-57.2	122.2	51.75	32.39	11.87	31.01	244	238	P	H
		5855	57.17	-53.63	110.8	43.91	32.4	11.87	31.01	244	238	P	H
		5924.2	55.41	-13.38	68.79	42.04	32.49	11.91	31.03	244	238	P	H
		5925.8	56.62	-11.58	68.2	43.24	32.5	11.91	31.03	244	238	P	H
802.11ax													H
HE20													H
CH 165	*	5825	124.13	-	-	110.93	32.35	11.85	31	301	268	P	V
5825MHz	*	5825	112.58	-	-	99.38	32.35	11.85	31	301	268	A	V
		5852.6	63.61	-52.66	116.27	50.36	32.39	11.87	31.01	301	268	P	V
		5857.6	60.52	-49.55	110.07	47.26	32.4	11.87	31.01	301	268	P	V
		5916.2	57.25	-17.44	74.69	43.9	32.48	11.9	31.03	301	268	P	V
		5930.2	54.6	-13.6	68.2	41.23	32.5	11.91	31.04	301	268	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE20 (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)
		11490	61.32	-12.68	74	63.46	40.1	17.16	59.4	263	132	P	H
		11490	49.29	-4.71	54	51.43	40.1	17.16	59.4	263	132	A	H
802.11ax		17235	48.85	-19.35	68.2	44.87	40.95	21.42	58.39	100	0	P	H
HE20													H
CH 149		11490	65.82	-8.18	74	67.96	40.1	17.16	59.4	264	145	P	V
5745MHz		11490	52.93	-1.07	54	55.07	40.1	17.16	59.4	264	145	A	V
		17235	49.52	-18.68	68.2	45.54	40.95	21.42	58.39	100	0	P	V
													V
		11570	59.92	-14.08	74	62.28	39.97	17.21	59.54	268	130	P	H
		11570	49.46	-4.54	54	51.82	39.97	17.21	59.54	268	130	A	H
802.11ax		17355	48.73	-19.47	68.2	43.87	41.38	21.51	58.03	100	0	P	H
HE20													H
CH 157		11570	63.83	-10.17	74	66.19	39.97	17.21	59.54	260	273	P	V
5785MHz		11570	53.05	-0.95	54	55.41	39.97	17.21	59.54	260	273	A	V
		17355	48.43	-19.77	68.2	43.57	41.38	21.51	58.03	100	0	P	V
													V
		11650	60.03	-13.97	74	62.64	39.83	17.26	59.7	243	133	P	H
		11650	49.09	-4.91	54	51.7	39.83	17.26	59.7	243	133	A	H
802.11ax		17475	49.16	-19.04	68.2	43.43	41.81	21.59	57.67	100	0	P	H
HE20													H
CH 165		11650	64.28	-9.72	74	66.89	39.83	17.26	59.7	295	274	P	V
5825MHz		11650	53.65	-0.35	54	56.26	39.83	17.26	59.7	295	274	A	V
		17475	51.17	-17.03	68.2	45.44	41.81	21.59	57.67	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40 (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)
		5607.6	54.75	-13.45	68.2	42.09	32.05	11.54	30.93	247	238	P	H
		5691.8	63.8	-35.35	99.15	50.92	32.17	11.67	30.96	247	238	P	H
		5719.8	72.06	-38.68	110.74	59.09	32.21	11.72	30.96	247	238	P	H
		5723.4	74.54	-44.01	118.55	61.58	32.21	11.72	30.97	247	238	P	H
	*	5755	122.84	-	-	109.79	32.26	11.77	30.98	247	238	P	H
	*	5755	111.43	-	-	98.38	32.26	11.77	30.98	247	238	A	H
		5851.6	57.26	-61.29	118.55	44.01	32.39	11.87	31.01	247	238	P	H
		5863.2	57.1	-51.4	108.5	43.83	32.41	11.87	31.01	247	238	P	H
		5907.2	54.73	-26.61	81.34	41.39	32.47	11.9	31.03	247	238	P	H
		5936.4	54.76	-13.44	68.2	41.37	32.51	11.92	31.04	247	238	P	H
802.11ax													H
HE40													H
CH 151		5645.8	56.49	-11.71	68.2	43.73	32.1	11.6	30.94	308	91	P	V
5755MHz		5697.8	68.18	-35.4	103.58	55.28	32.18	11.68	30.96	308	91	P	V
		5717	75.03	-34.93	109.96	62.08	32.2	11.71	30.96	308	91	P	V
		5723	75.1	-42.54	117.64	62.14	32.21	11.72	30.97	308	91	P	V
	*	5755	122.17	-	-	109.12	32.26	11.77	30.98	308	91	P	V
	*	5755	112.38	-	-	99.33	32.26	11.77	30.98	308	91	A	V
		5854	57.6	-55.48	113.08	44.34	32.4	11.87	31.01	308	91	P	V
		5855.6	57.22	-53.41	110.63	43.96	32.4	11.87	31.01	308	91	P	V
		5909.8	55.83	-23.59	79.42	42.49	32.47	11.9	31.03	308	91	P	V
		5933.6	54.56	-13.64	68.2	41.18	32.51	11.91	31.04	308	91	P	V
													V
													V

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.2	54.13	-14.07	68.2	41.36	32.11	11.6	30.94	235	239	P	H
		5693.8	55.48	-45.15	100.63	42.59	32.17	11.68	30.96	235	239	P	H
		5709.8	57.61	-50.34	107.95	44.68	32.19	11.7	30.96	235	239	P	H
		5723.2	57.34	-60.76	118.1	44.38	32.21	11.72	30.97	235	239	P	H
	*	5795	120.27	-	-	107.12	32.31	11.83	30.99	235	239	P	H
	*	5795	111.29	-	-	98.14	32.31	11.83	30.99	235	239	A	H
		5853.2	65.98	-48.92	114.9	52.73	32.39	11.87	31.01	235	239	P	H
		5859	62.09	-47.59	109.68	48.83	32.4	11.87	31.01	235	239	P	H
		5878.6	57.74	-44.79	102.53	44.45	32.43	11.88	31.02	235	239	P	H
		5938.2	54.34	-13.86	68.2	40.95	32.51	11.92	31.04	235	239	P	H
802.11ax													H
HE40													H
CH 159		5639.6	54.91	-13.29	68.2	42.16	32.1	11.59	30.94	260	213	P	V
5795MHz		5697.2	56.15	-46.99	103.14	43.25	32.18	11.68	30.96	260	213	P	V
		5714.6	56.92	-52.37	109.29	43.97	32.2	11.71	30.96	260	213	P	V
		5721.2	56.69	-56.85	113.54	43.73	32.21	11.72	30.97	260	213	P	V
	*	5795	120.44	-	-	107.29	32.31	11.83	30.99	260	213	P	V
	*	5795	110.89	-	-	97.74	32.31	11.83	30.99	260	213	A	V
		5852	64.11	-53.53	117.64	50.86	32.39	11.87	31.01	260	213	P	V
		5858.6	61.59	-48.2	109.79	48.33	32.4	11.87	31.01	260	213	P	V
		5876.4	57.94	-46.22	104.16	44.65	32.43	11.88	31.02	260	213	P	V
		5941	54.68	-13.52	68.2	41.28	32.52	11.92	31.04	260	213	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40 (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)
		11510	60.76	-13.24	74	62.92	40.08	17.18	59.42	247	130	P	H
		11510	49.12	-4.88	54	51.28	40.08	17.18	59.42	247	130	A	H
802.11ax		17265	48.02	-20.18	68.2	43.84	41.05	21.44	58.31	100	0	P	H
HE40													H
CH 151		11510	64.63	-9.37	74	66.79	40.08	17.18	59.42	247	273	P	V
5755MHz		11510	53.34	-0.66	54	55.5	40.08	17.18	59.42	247	273	A	V
		17265	47.22	-20.98	68.2	43.04	41.05	21.44	58.31	100	0	P	V
													V
		11590	58.74	-15.26	74	61.16	39.94	17.22	59.58	263	131	P	H
		11590	48.96	-5.04	54	51.38	39.94	17.22	59.58	263	131	A	H
802.11ax		17385	49	-19.2	68.2	43.92	41.49	21.53	57.94	100	0	P	H
HE40													H
CH 159		11590	63.65	-10.35	74	66.07	39.94	17.22	59.58	261	272	P	V
5795MHz		11590	52.94	-1.06	54	55.36	39.94	17.22	59.58	261	272	A	V
		17385	48.85	-19.35	68.2	43.77	41.49	21.53	57.94	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80 (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)
		5634.8	62.01	-6.19	68.2	49.28	32.09	11.58	30.94	320	231	P	H
		5695.4	76.22	-25.59	101.81	63.33	32.17	11.68	30.96	320	231	P	H
		5718	77.41	-32.83	110.24	64.45	32.21	11.71	30.96	320	231	P	H
		5725	78.22	-43.98	122.2	65.25	32.22	11.72	30.97	320	231	P	H
	*	5775	118.17	-	-	105.07	32.28	11.8	30.98	320	231	P	H
	*	5775	108.42	-	-	95.32	32.28	11.8	30.98	320	231	A	H
		5854	78.43	-34.65	113.08	65.17	32.4	11.87	31.01	320	231	P	H
		5855.4	78.92	-31.77	110.69	65.66	32.4	11.87	31.01	320	231	P	H
		5880.6	69.1	-31.94	101.04	55.81	32.43	11.88	31.02	320	231	P	H
		5930.2	62.09	-6.11	68.2	48.72	32.5	11.91	31.04	320	231	P	H
802.11ax													H
HE80													H
CH 155		5648.6	65.38	-2.82	68.2	52.6	32.11	11.61	30.94	300	94	P	V
5775MHz		5699.4	76.41	-28.35	104.76	63.51	32.18	11.68	30.96	300	94	P	V
		5719.6	81.24	-29.45	110.69	68.27	32.21	11.72	30.96	300	94	P	V
		5720.2	81.41	-29.85	111.26	68.44	32.21	11.72	30.96	300	94	P	V
	*	5775	118.87	-	-	105.77	32.28	11.8	30.98	300	94	P	V
	*	5775	109.45	-	-	96.35	32.28	11.8	30.98	300	94	A	V
		5854.2	75.05	-37.57	112.62	61.79	32.4	11.87	31.01	300	94	P	V
		5859.4	76.1	-33.47	109.57	62.84	32.4	11.87	31.01	300	94	P	V
		5880.2	72.71	-28.63	101.34	59.42	32.43	11.88	31.02	300	94	P	V
		5933	60.33	-7.87	68.2	46.95	32.51	11.91	31.04	300	94	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80 (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)
		11550	58.43	-15.57	74	60.73	40.01	17.19	59.5	246	136	P	H
		11550	47.8	-6.2	54	50.1	40.01	17.19	59.5	246	136	A	H
802.11ax		17325	50.26	-17.94	68.2	45.62	41.27	21.49	58.12	100	0	P	H
HE80													H
CH 155		11550	65.07	-8.93	74	67.37	40.01	17.19	59.5	279	275	P	V
5775MHz		11550	52.35	-1.65	54	54.65	40.01	17.19	59.5	279	275	A	V
		17325	50.42	-17.78	68.2	45.78	41.27	21.49	58.12	100	0	P	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 HE20 (LF @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 LF		85.29	22.53	-17.47	40	39.22	14.13	1.63	32.45			P	H
		122.15	29.52	-13.98	43.5	42.56	17.6	1.78	32.42			P	H
		216.24	30.47	-15.53	46	45.53	14.92	2.42	32.4			P	H
		347.19	25.6	-20.4	46	34.75	20.39	2.9	32.44			P	H
		754.59	29.98	-16.02	46	29.79	28.11	4.47	32.39			P	H
		959.26	33.8	-12.2	46	28.82	30.99	5.08	31.09	100	0	P	H
													H
													H
													H
													H
													H
													H
		85.29	30.26	-9.74	40	46.95	14.13	1.63	32.45			P	V
		122.15	36.45	-7.05	43.5	49.49	17.6	1.78	32.42	100	0	P	V
		242.43	22.08	-23.92	46	34.16	17.59	2.74	32.41			P	V
		347.19	23.14	-22.86	46	32.29	20.39	2.9	32.44			P	V
		565.44	26.87	-19.13	46	29.64	26.1	3.69	32.56			P	V
		951.5	33.22	-12.78	46	28.53	30.83	5.02	31.16			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)

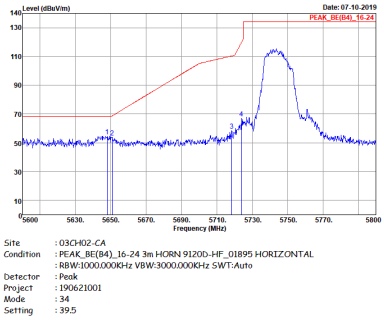
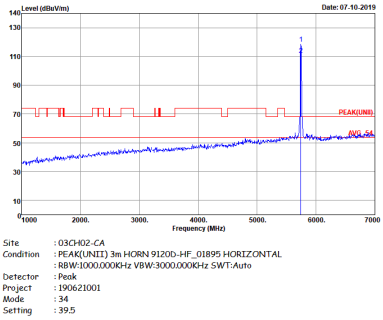
Both peak and average measured complies with the limit line, so test result is “PASS”.

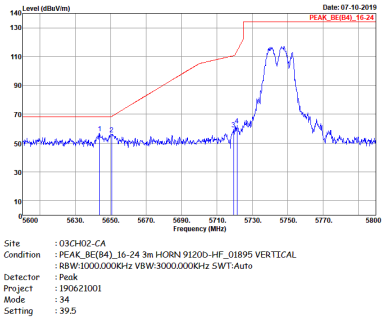
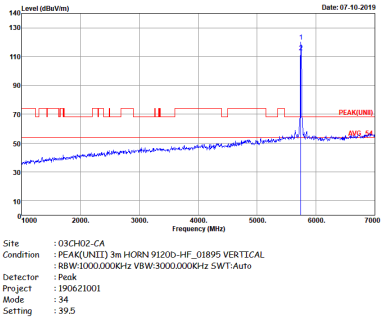
Appendix F. Radiated Spurious Emission Plots

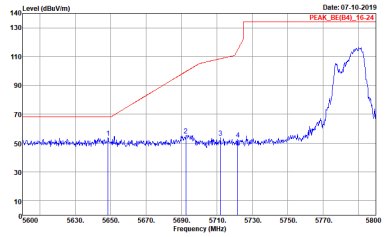
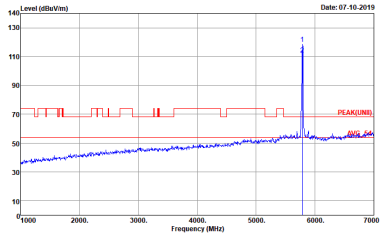
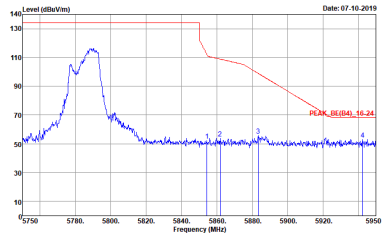
Test Engineer :	Watt Tseng	Temperature :	22~26°C
		Relative Humidity :	41~49%

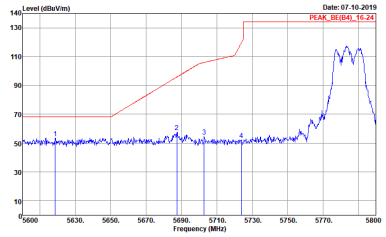
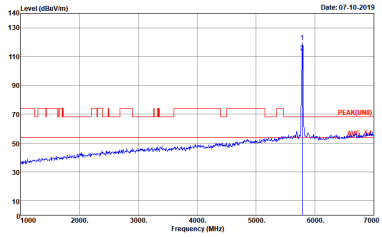
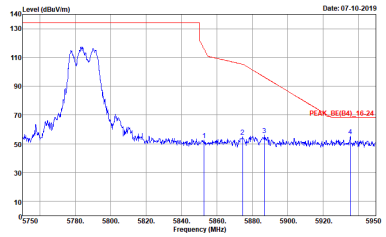
Band 4 - 5725~5850MHz

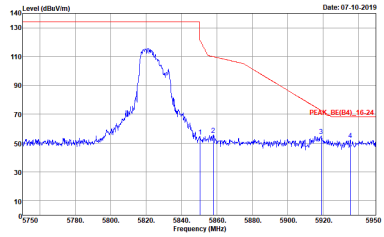
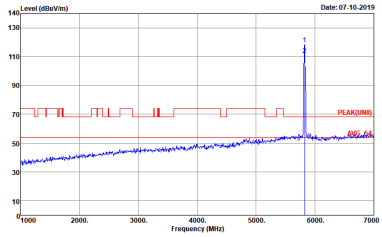
WIFI 802.11a (Band Edge @ 3m)

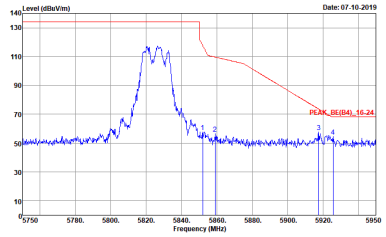
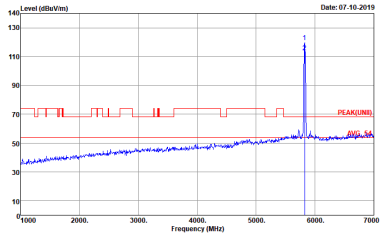
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2+3+4	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 34 Setting : 39.5	 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 : 34 Setting : 39.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5	 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 : 35 Setting : 39.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5	Left blank

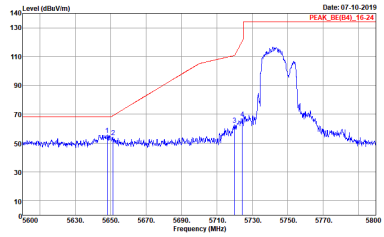
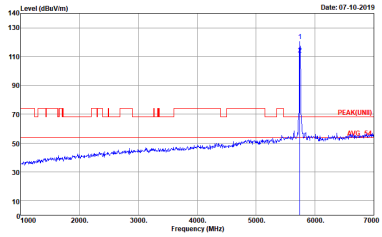
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5	Left blank

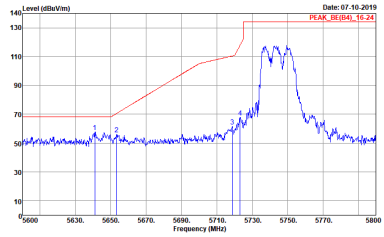
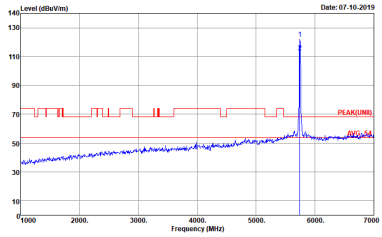
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5

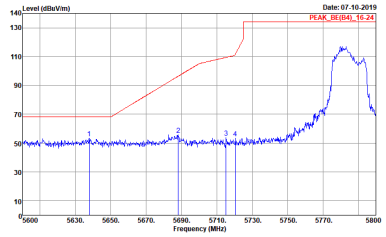
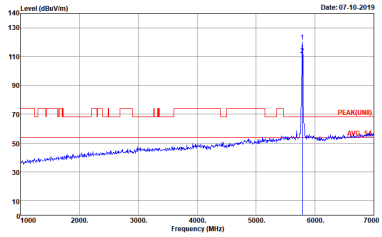
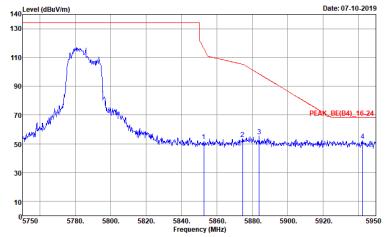
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5

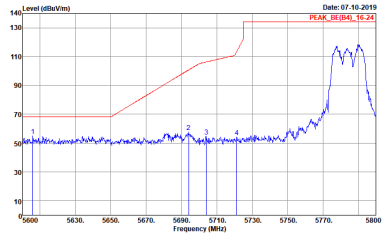
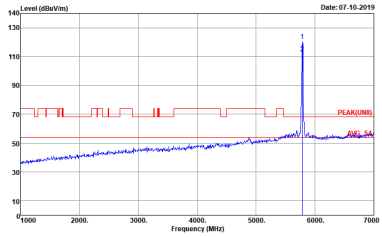
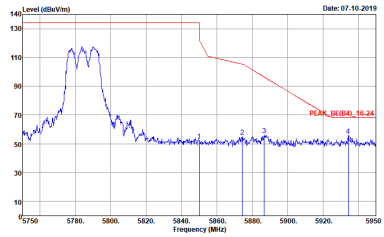
Band 4 5725~5850MHz

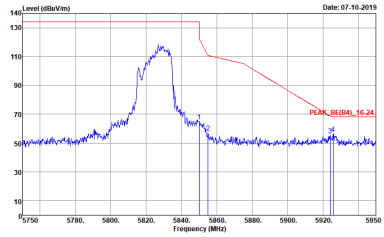
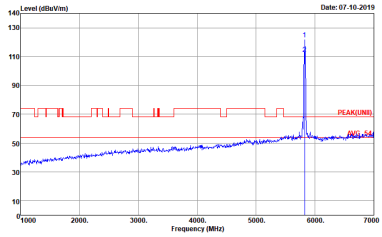
WIFI 802.11ax HE20 (Band Edge @ 3m)

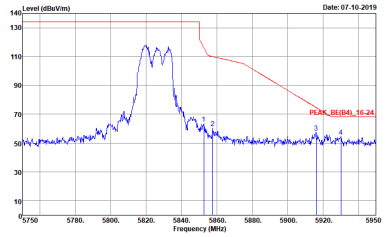
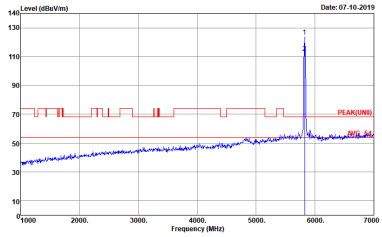
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH149 5745MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 37 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 37 Setting : 40.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH149 5745MHz	
1+2+3+4	Vertical	Fundamental
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 37 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 : 37 Setting : 40.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH157 5785MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5	 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 : 38 Setting : 40.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5	Left blank

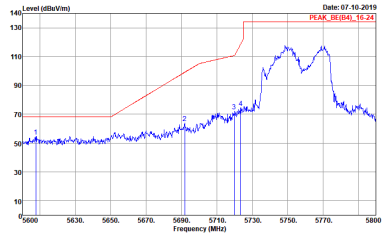
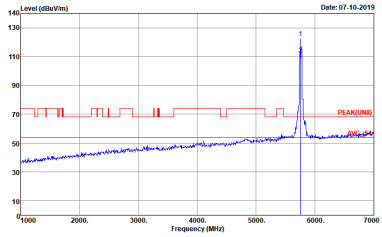
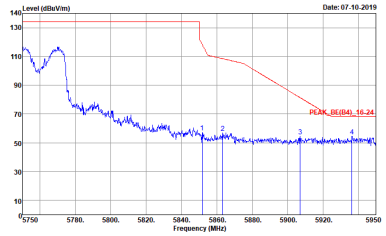
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH157 5785MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5	Left blank

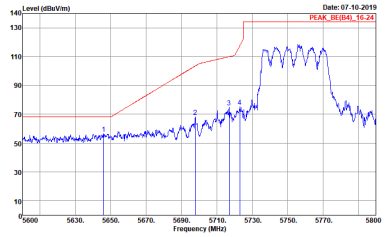
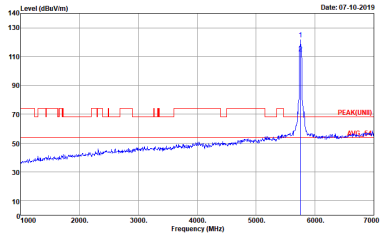
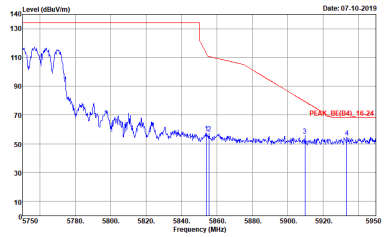
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH165 5825MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 39 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 39 Setting : 40.5

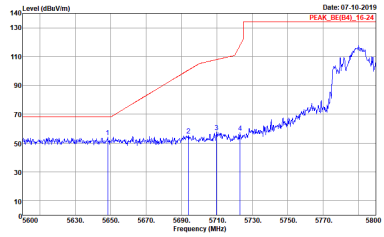
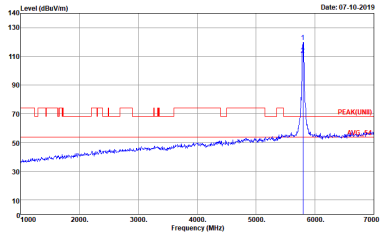
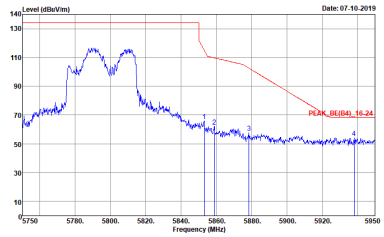
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 CH165 5825MHz	
1+2+3+4	Vertical	Fundamental
Peak Avg.	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 39 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 39 Setting : 40.5

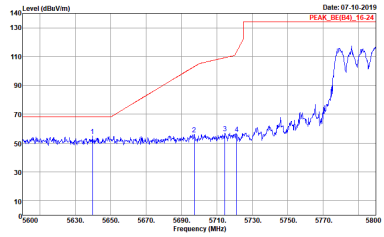
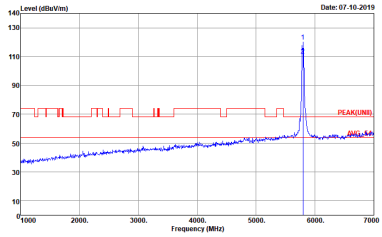
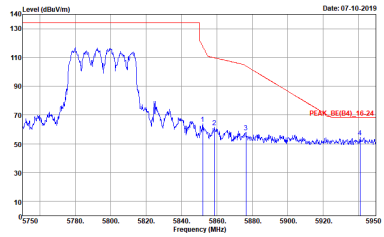
Band 4 5725~5850MHz

WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH151 5755MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5	 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 : 40 Setting : 43.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5	Left blank

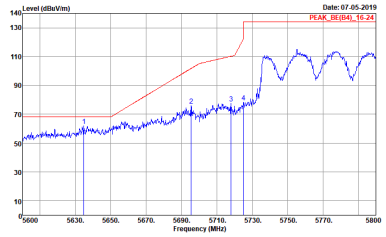
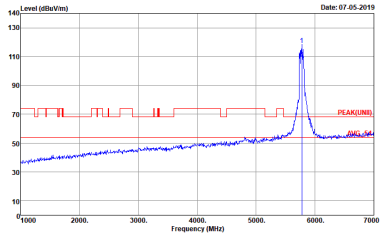
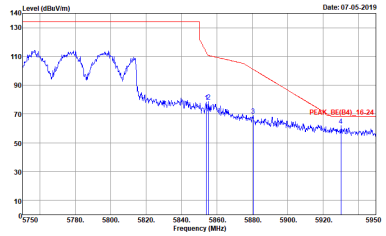
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH151 5755MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5	Left blank

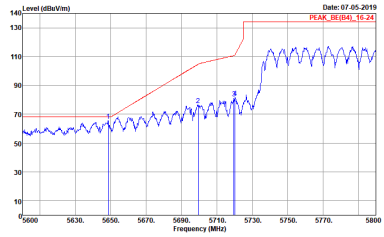
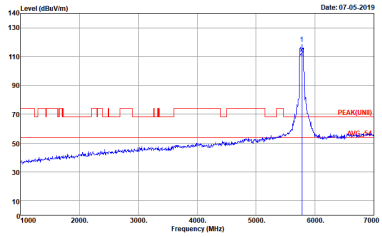
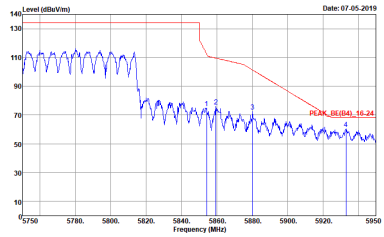
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH159 5795MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 CH159 5795MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5	 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 : 41 Setting : 42.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5	Left blank

Band 4 5725~5850MHz

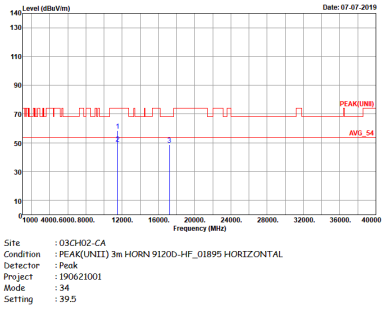
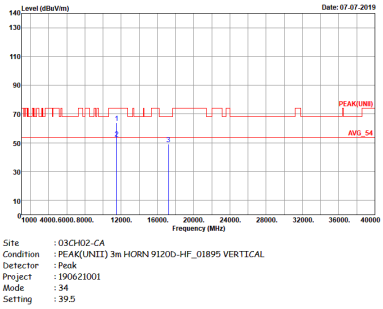
WIFI 802.11ax HE80 (Band Edge @ 3m)

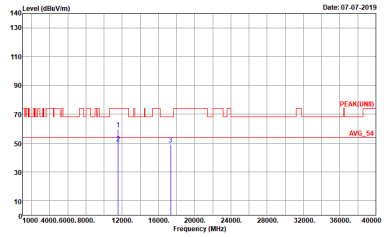
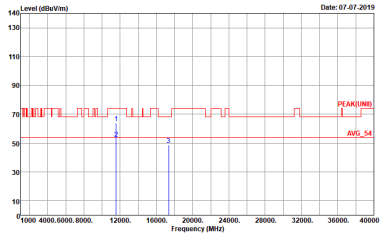
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH155 5775MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5	Left blank

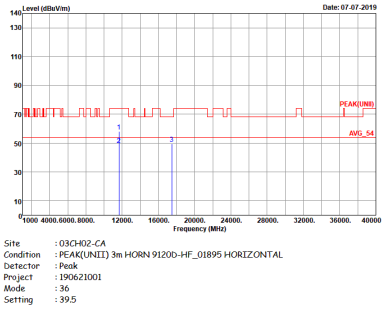
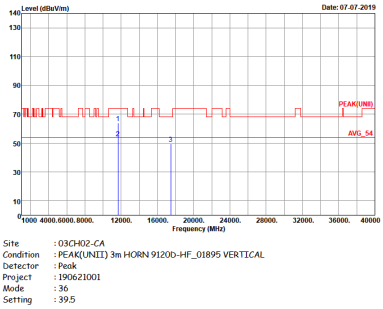
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 CH155 5775MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5
Peak	 Site : 03CH02-CA Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_01895 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

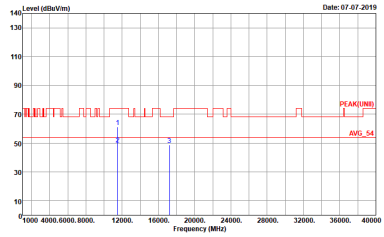
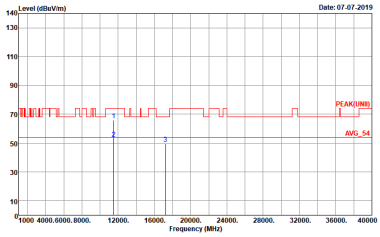
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 34 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 34 Setting : 39.5

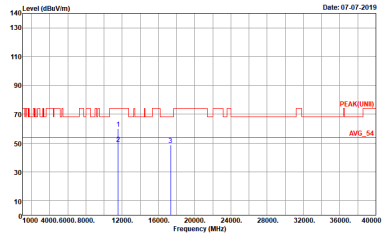
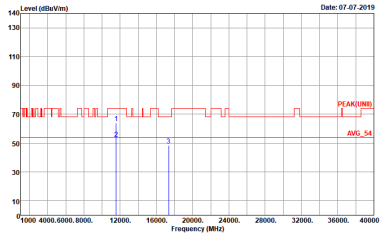
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 35 Setting : 39.5

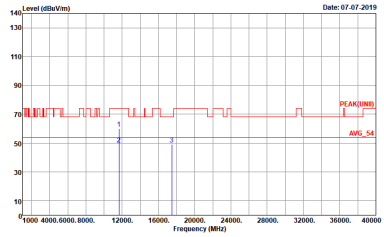
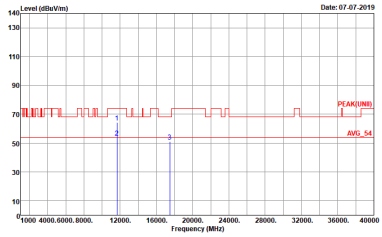
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 36 Setting : 39.5

Band 4 5725~5850MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

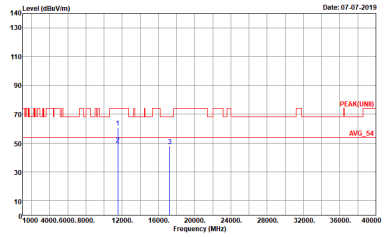
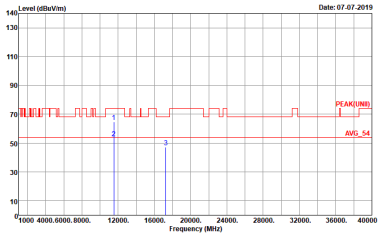
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH149 5745MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 37 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 37 Setting : 40.5

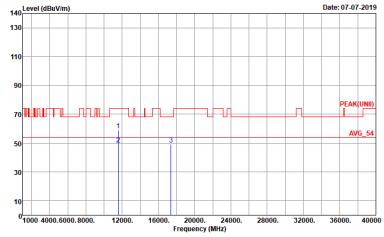
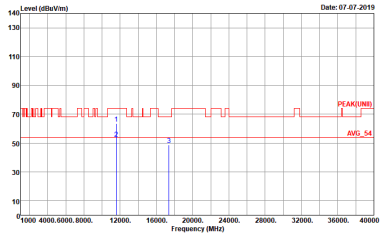
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH157 5785MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 HORIZONTAL Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 38 Setting : 40.5

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 CH165 5825MHz	
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 : 39 Setting : 40.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 39 Setting : 40.5

Band 4 5725~5850MHz

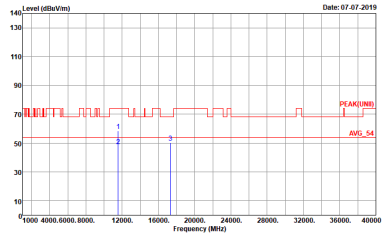
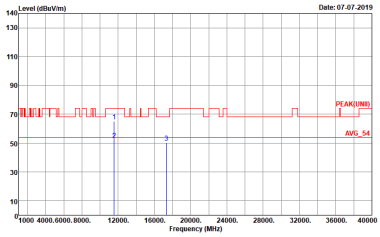
WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH151 5755MHz	
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 : 40 Setting : 43.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 40 Setting : 43.5

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 CH159 5795MHz	
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 : 41 Setting : 42.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 41 Setting : 42.5

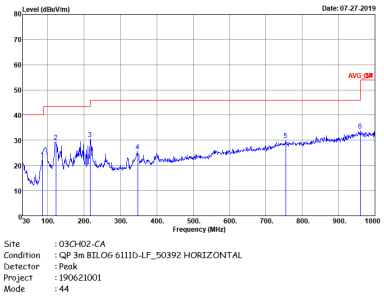
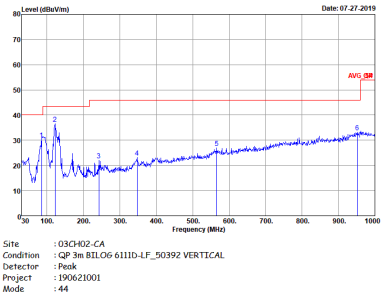
Band 4 5725~5850MHz

WIFI 802.11ax HE80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 CH155 5775MHz	
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 : 42 Setting : 44.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN 9120D-HF_01895 VERTICAL Detector : Peak Project : 190621001 Mode : 42 Setting : 44.5

Emission below 1GHz

5GHz WIFI 802.11ax HE20 (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 LF	
1+2+3+4	Horizontal	Vertical
QP / Peak	 Site : 03CH02-CA Condition : QP 3m BILOG 6111D-LF_50392 HORIZONTAL Detector : Peak Project : 190621001 Mode : 44	 Site : 03CH02-CA Condition : QP 3m BILOG 6111D-LF_50392 VERTICAL Detector : Peak Project : 190621001 Mode : 44

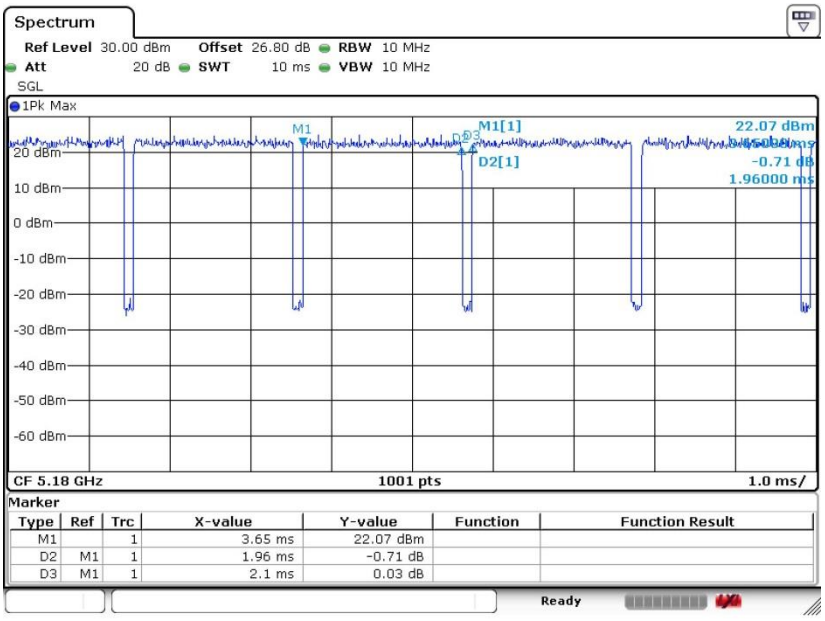
Appendix G. Duty Cycle Plots

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

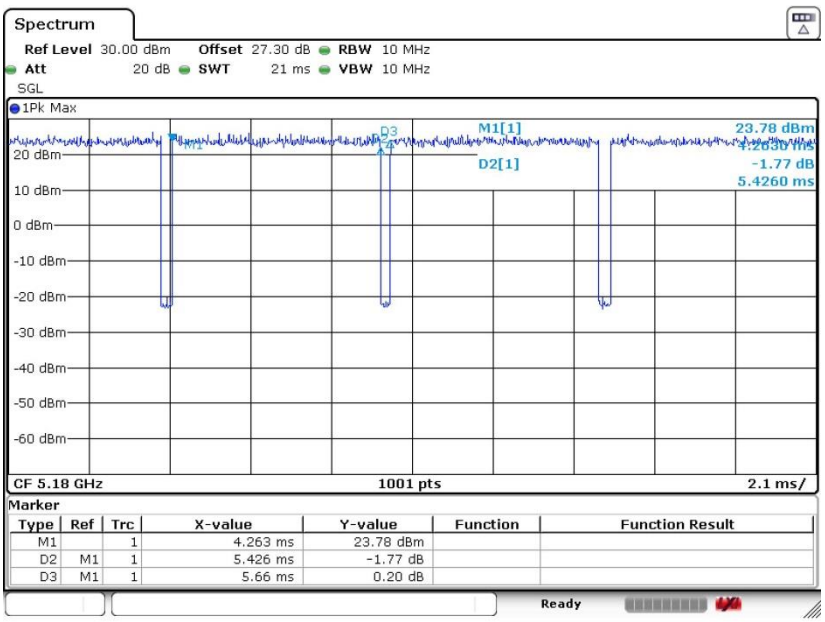
MIMO <Ant. 1>

802.11a



Date: 3.JUL.2019 14:06:07

802.11n HT20



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