FCC RADIO TEST REPORT

FCC ID	:	TVE-3417T0695A
Equipment	:	Network Security Gateway
Brand Name	:	FORTINET
Model Name	:	FWF-80F-2Rxxxxxx, FortiWiFi 80F-2Rxxxxxx, FORTIWIFI-80F-2Rxxxxxx FWF-81F-2Rxxxxxx, FortiWiFi 81F-2Rxxxxxx, FORTIWIFI-81F-2Rxxxxxx FWF-80F-2R-3G4G-DSLxxxxxx, FortiWiFi 80F-2R-3G4G-DSLxxxxxx, FORTIWIFI-80F-2R-3G4G-DSLxxxxxx FWF-81F-2R-3G4G-DSLxxxxxx, FortiWiFi 81F-2R-3G4G-DSLxxxxxx, FORTIWIFI-81F-2R-3G4G-DSLxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
Marketing Name	:	FortiWiFi 80F-2R, FortiWiFi 81F-2R, FortiWiFi 80F-2R-3G4G-DSL, FortiWiFi 81F-2R-3G4G-DSL
Applicant	:	Fortinet Inc. 899 KIFER RD SUNNYVALE CA 94086 UNITED STATES
Manufacturer	:	Fortinet Inc. 899 KIFER RD SUNNYVALE CA 94086 UNITED STATES
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Jan. 19, 2021 and testing was started from Jan. 25, 2021 and completed on Feb. 28, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR111826C	01	Initial issue of report	Feb. 28, 2021
FR111826C	02	Revise power table	Mar. 17, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 0.25 dB at 5360.040 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 11.19 dB at 0.415 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

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

Reviewed by: Wii Chang

Report Producer: Celery Wei

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and GNSS

Product Specification subjective to this standard	
Antenna Type	**WWAN:** Dipole Antenna **WLAN:** <Ant. 1> Dipole Antenna <Ant. 2> Dipole Antenna <Ant. 3> Dipole Antenna **Bluetooth - LE:** <Ant. 4> PIFA Antenna **GPS / Glonass / BDS / Galileo:** Dipole Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 3.27 Ant. 2: 3.27 Ant. 3: 3.27

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

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan & Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH05-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in two degrees (Ant. Horizontal and Ant. Vertical). The worst cases (Ant. Horizontal) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 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.

Single Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE 40)	MCS0
802.11ac VHT20 (Covered by HE 20)	MCS0
802.11ac VHT40 (Covered by HE 40)	MCS0
802.11ac VHT80 (Covered by HE 40)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Remark: The device have support beamforming function in 802.11 ac/ax mode, the manufacturer defines worst case were Non Beamforming, other test items only test worst case and documented.

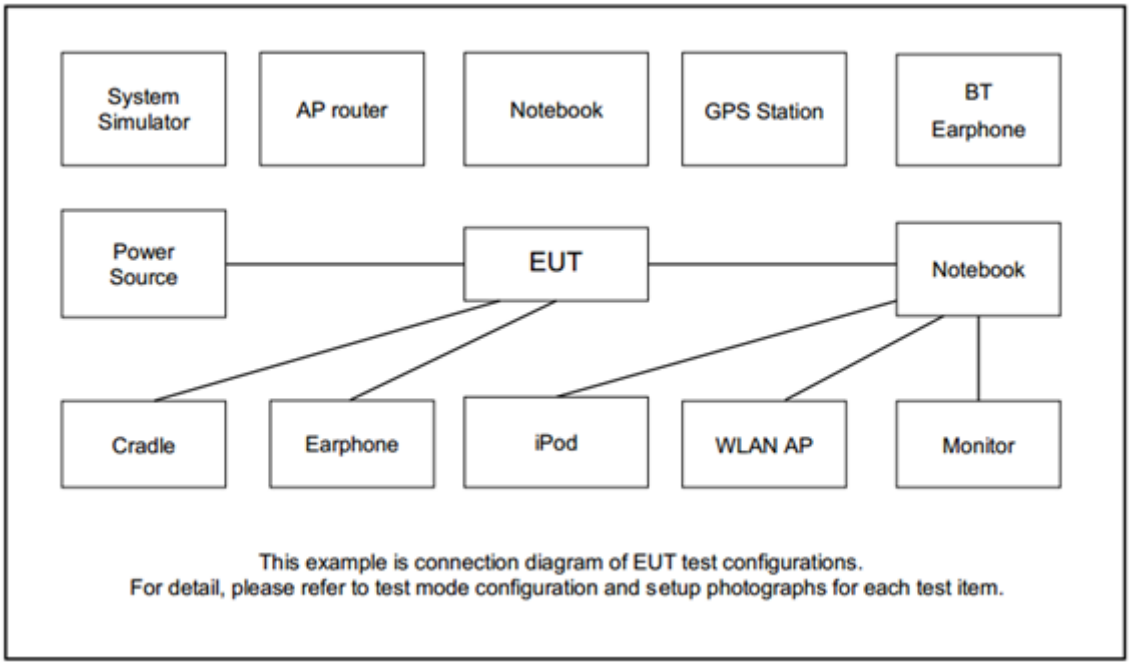
Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 41 Link + WLAN (5GHz) Link + Bluetooth Link + Adapter*2 Mode 2 : LTE Band 41 Idle + WLAN (5GHz) Idle + Bluetooth Idle + Adapter*2
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

Ch. #		Band I：5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
		40	40	-	-
M	Middle	44	44	-	42
H	High	48	48	46	-

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

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P： Unshielded, 1.2m DC O/P： Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00196” 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 10 dB attenuator.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

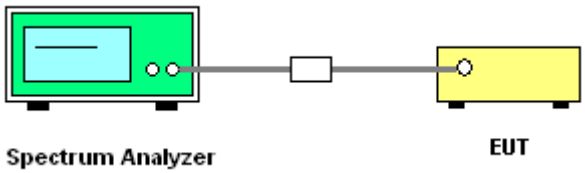
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

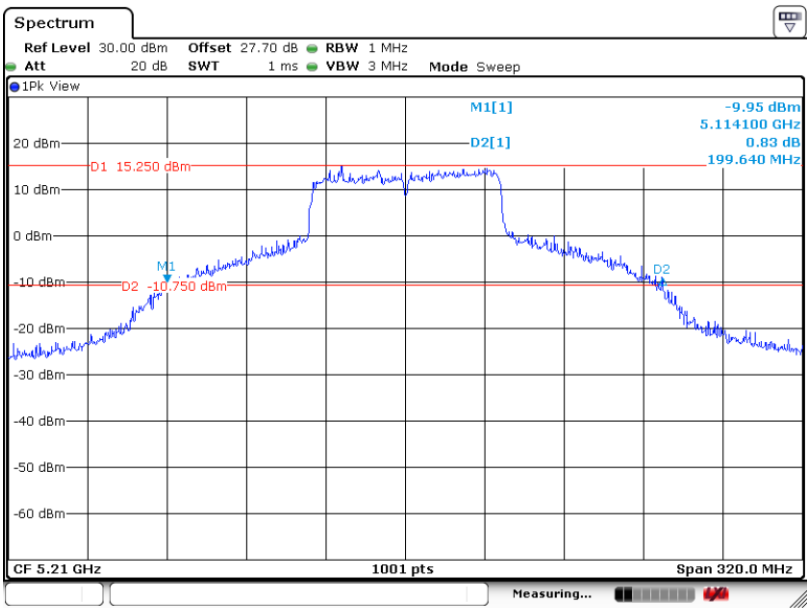


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

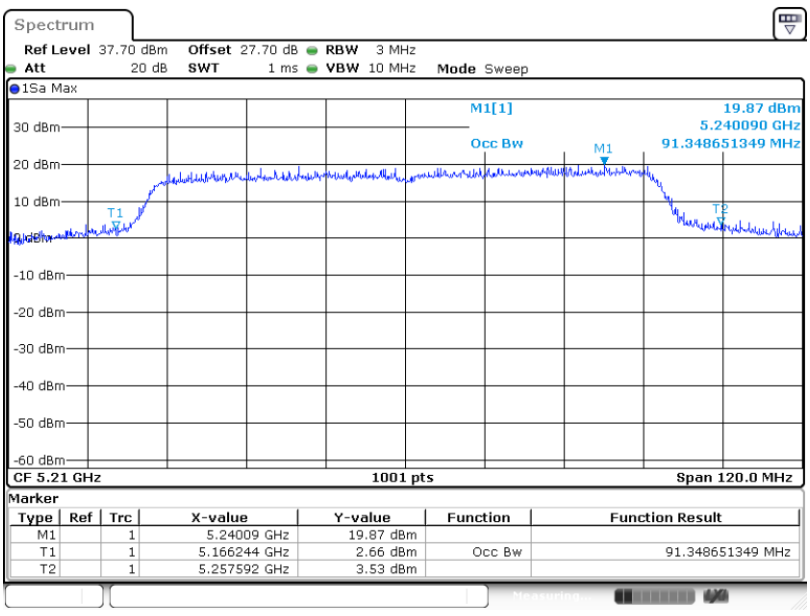
Please refer to Appendix A.

<Ant. 2>

Maximum 26dB Bandwidth

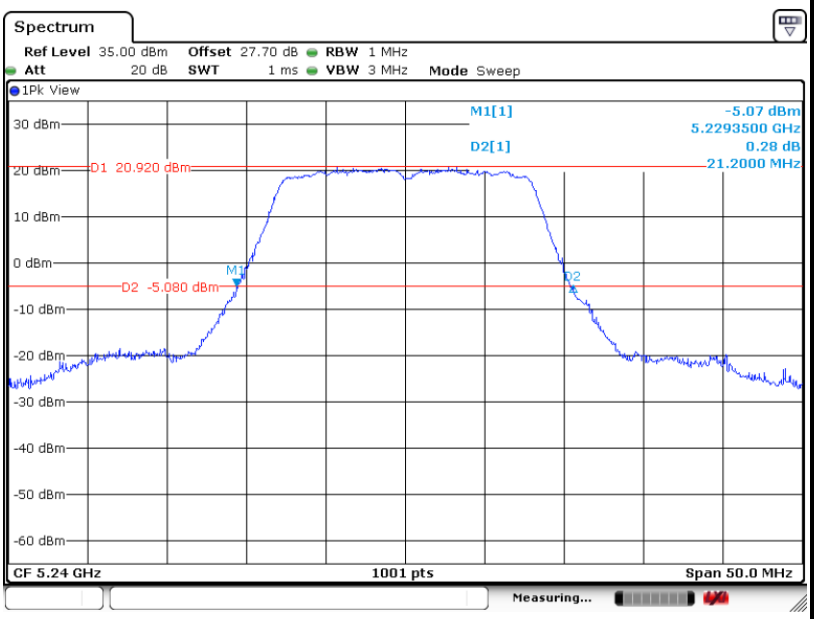


Maximum 99% Occupied Bandwidth

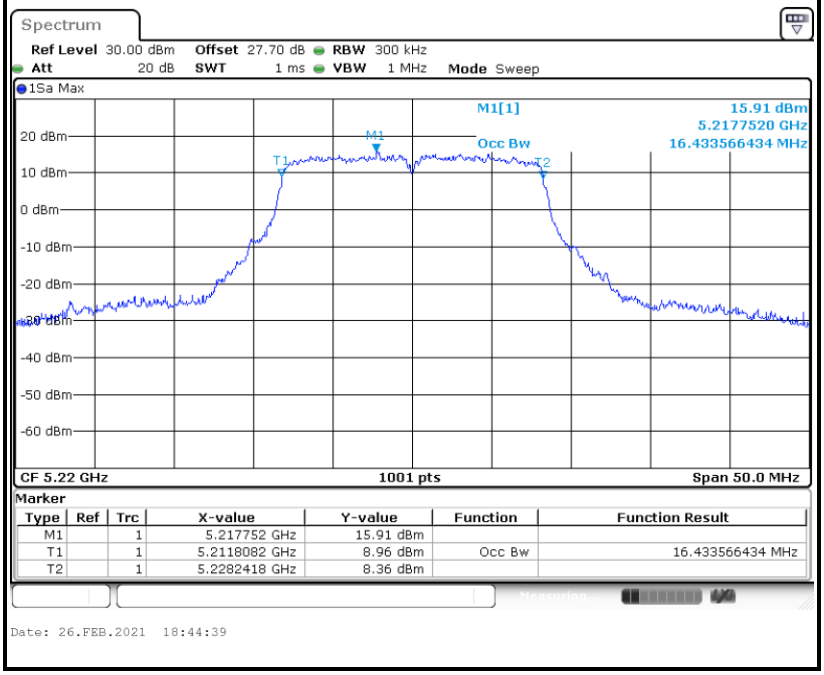


MOMO <Ant. 1+3>

Maximum 26dB Bandwidth

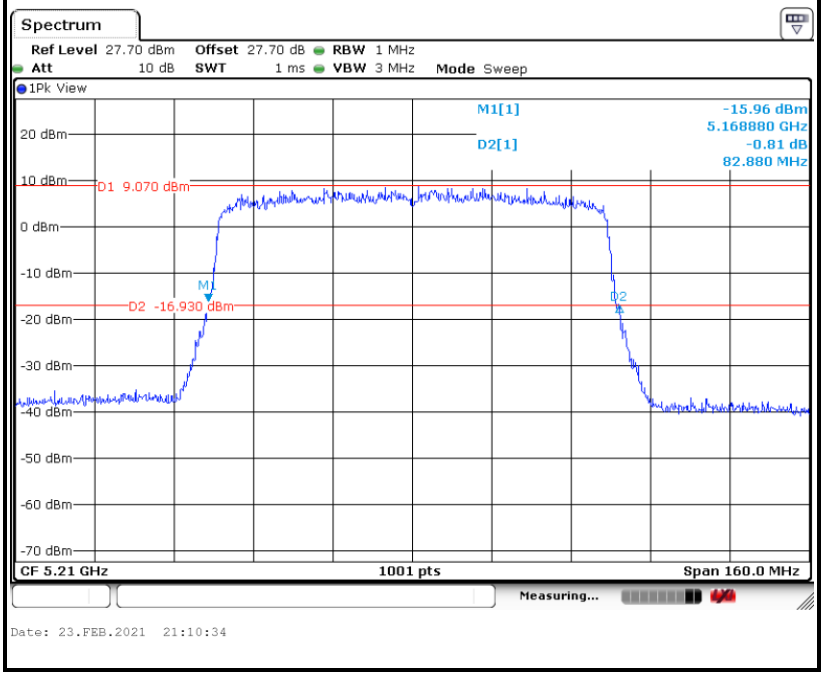


Maximum 99% Occupied Bandwidth

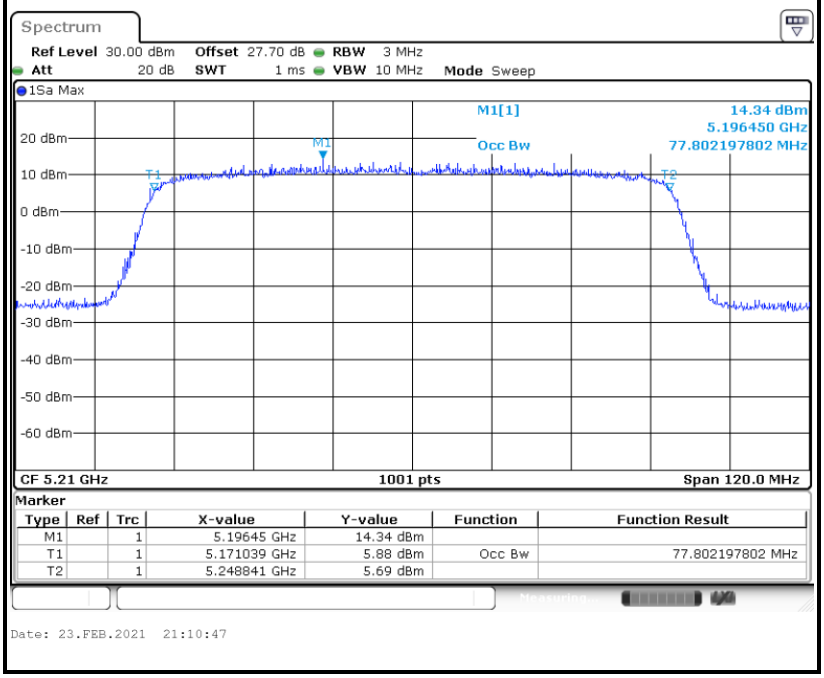


<802.11ax Mode>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

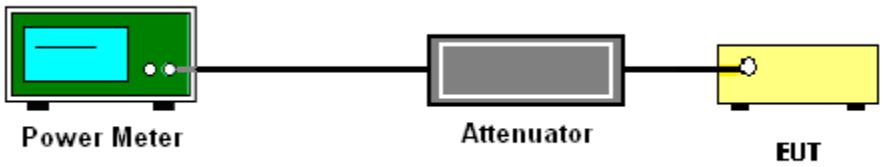
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-3 #

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

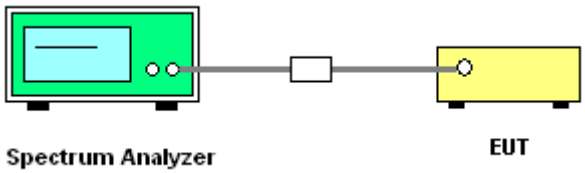
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which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

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

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

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

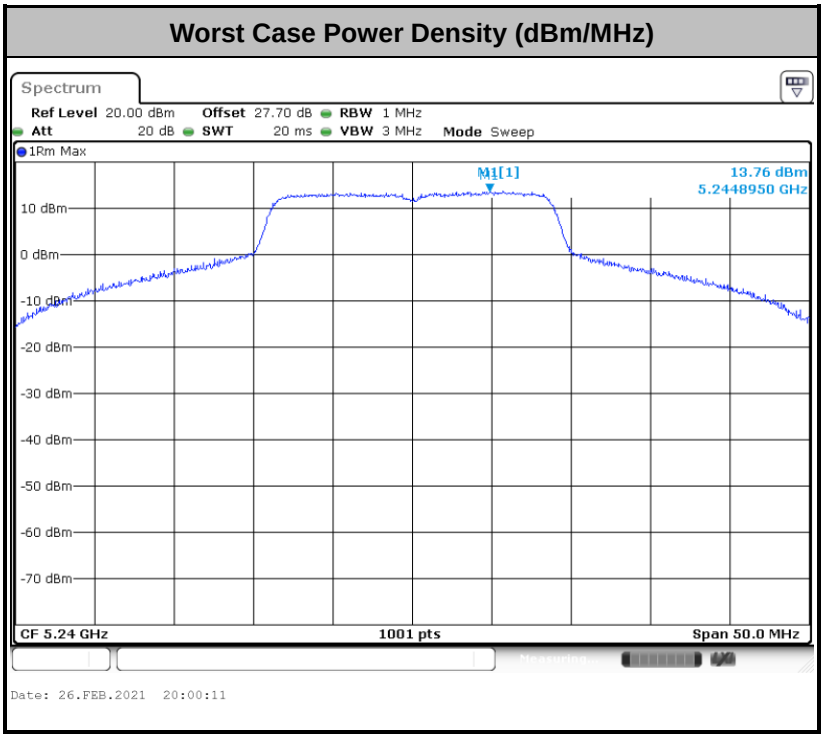
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

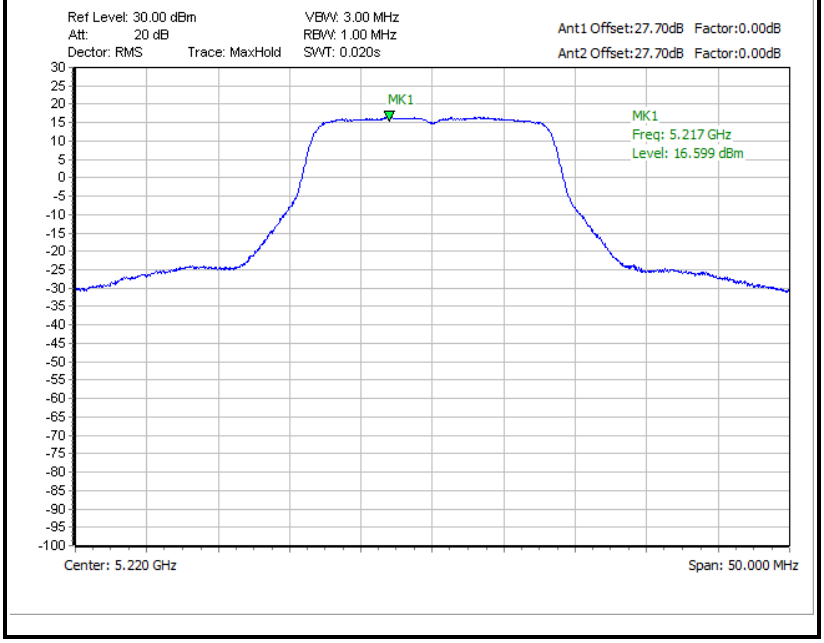
Please refer to Appendix A.

<Ant. 2>



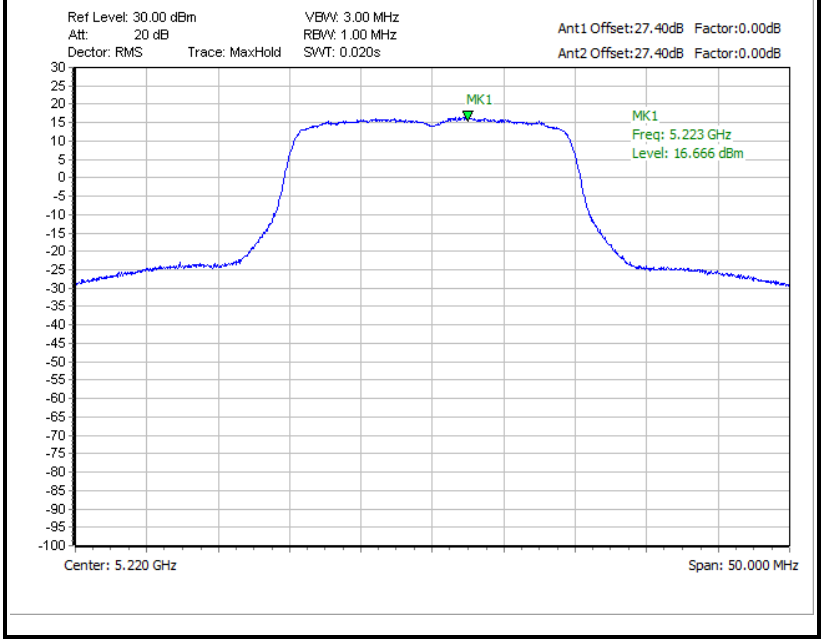
MIMO <Ant. 1+3>

Worst Case Power Density (dBm/MHz)



<802.11ax Modes>

Worst Case Power Density (dBm/MHz))



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

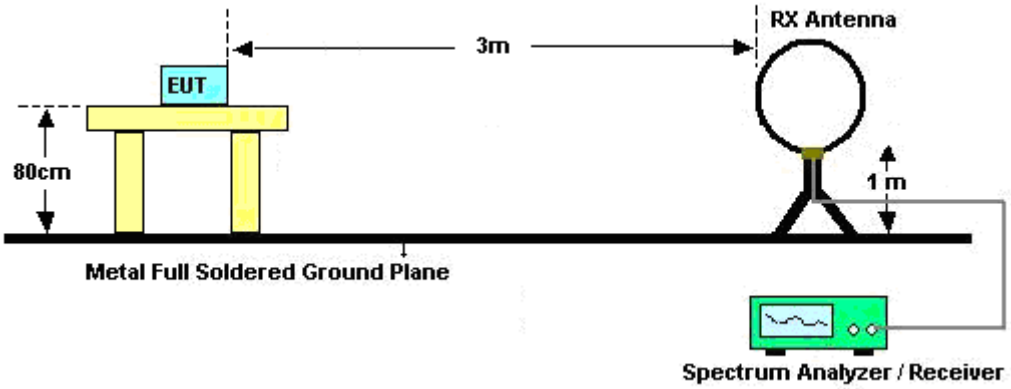
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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.

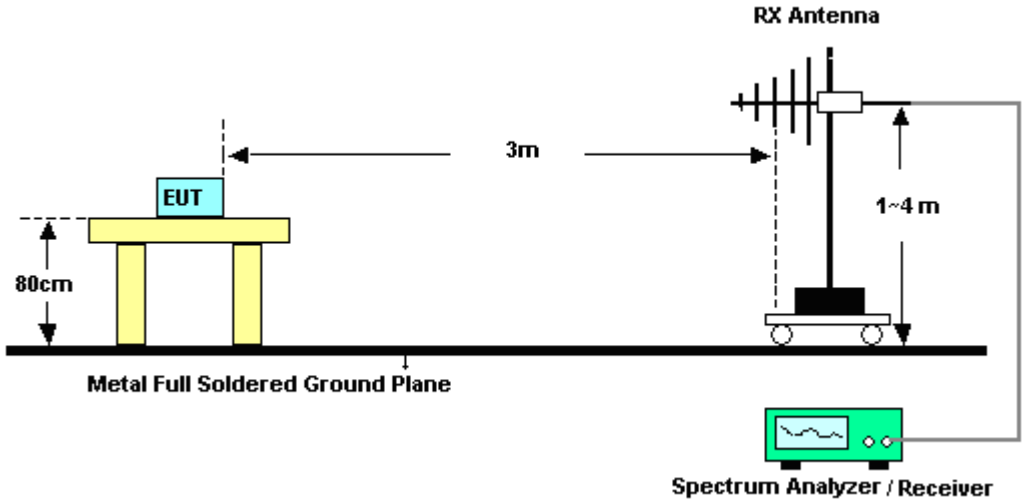
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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 1 GHz, 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 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

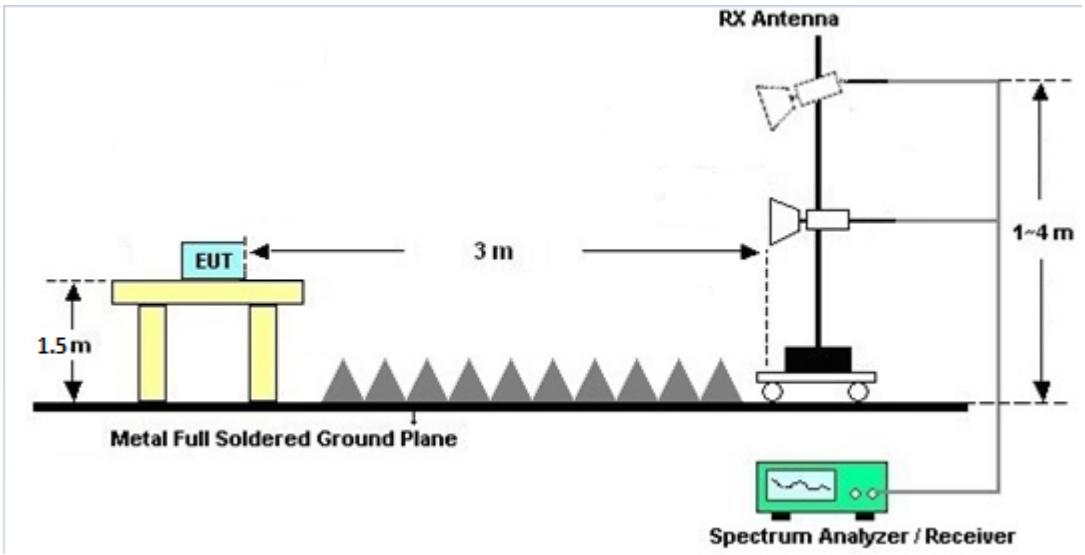
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

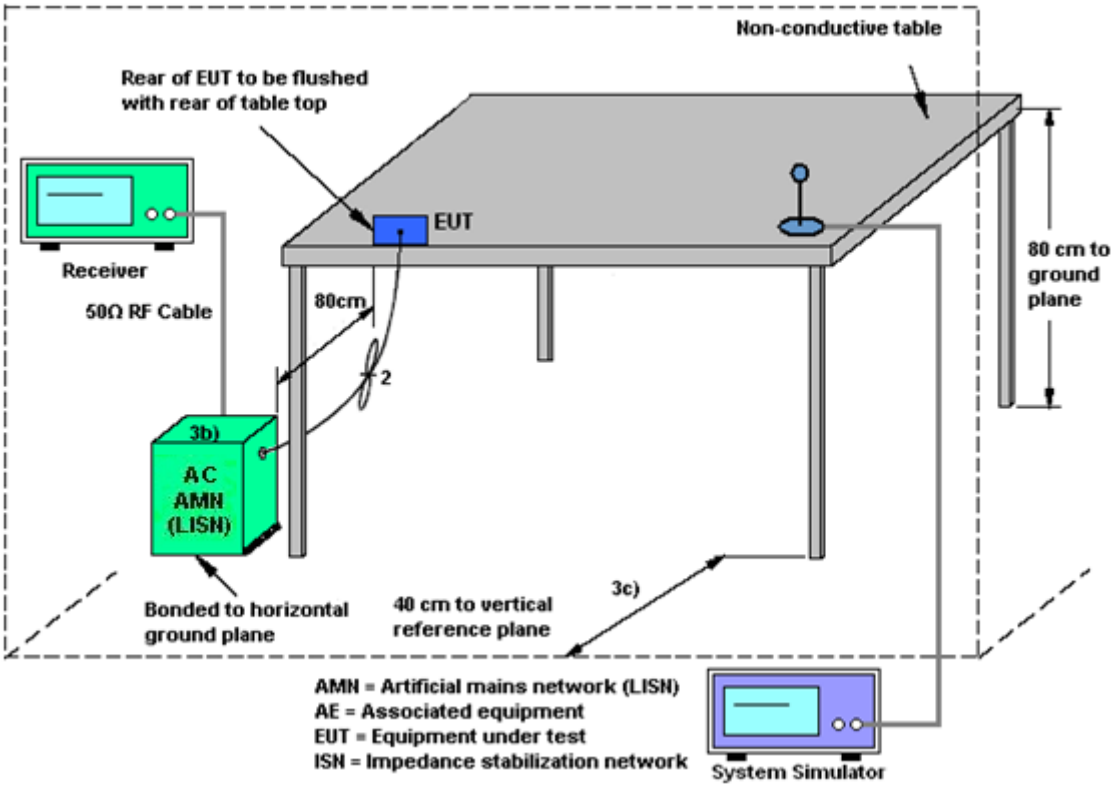
3.5.2 Measuring Instruments

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 shall be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

	Ant. 1 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.27	3.27	3.27	6.28	0.00	0.28

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 3	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.27	3.27	6.28	6.28	0.28	0.28

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

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Feb. 04, 2021~ Feb. 27, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Feb. 04, 2021~ Feb. 27, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Feb. 04, 2021~ Feb. 27, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	Feb. 04, 2021~ Feb. 27, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	Feb. 04, 2021~ Feb. 27, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~40GHz	May 22, 2020	Feb. 04, 2021~ Feb. 27, 2021	May 21, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 10, 2020	Feb. 04, 2021~ Feb. 27, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY590530 12	3Hz~26.5GHz	Nov. 18, 2020	Feb. 04, 2021~ Feb. 27, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 29, 2020	Feb. 04, 2021~ Feb. 27, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 29, 2020	Feb. 04, 2021~ Feb. 27, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 29, 2020	Feb. 04, 2021~ Feb. 27, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Feb. 04, 2021~ Feb. 27, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Feb. 04, 2021~ Feb. 27, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 04, 2021~ Feb. 27, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 04, 2021~ Feb. 27, 2021	N/A	Radiation (03CH16-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 08, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Feb. 08, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Feb. 08, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Feb. 08, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 08, 2021	N/A	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Feb. 08, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	ESHVTSD 9561-F N3-Z2	109561-FN003730851	9kHz-200MHz	Nov. 02, 2020	Feb. 08, 2021	Nov. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913904	N/A	Jul. 27, 2020	Jan. 25, 2021~ Feb. 28, 2021	Jul. 26, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 09, 2020	Jan. 25, 2021~ Feb. 28, 2021	Dec. 08, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jan. 25, 2021~ Feb. 28, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Jan. 25, 2021~ Feb. 28, 2021	Mar. 16, 2021	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.5**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2021/1/25~2021/2/28	Relative Humidity:	51~54	%

Report Number : FR111826C

TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	36	5180	17.08	-	26.05	-	22.33	-		
11a	6Mbps	1	44	5220	21.18	-	39.15	-	23.01	-		
11a	6Mbps	1	48	5240	31.87	-	47.55	-	23.01	-		
HT20	MCS0	1	36	5180	18.18	-	27.05	-	22.60	-		
HT20	MCS0	1	44	5220	21.23	-	39.55	-	23.01	-		
HT20	MCS0	1	48	5240	33.17	-	50.15	-	23.01	-		
HT40	MCS0	1	38	5190	37.46	-	50.40	-	23.01	-		
HT40	MCS0	1	46	5230	37.46	-	52.47	-	23.01	-		
VHT80	MCS0	1	42	5210	91.35	-	199.64	-	23.01	-		

Report Number : FR111826C

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 1	SUM	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	36	5180	16.40	-		30.00	-	3.27	-		Pass
11a	6Mbps	1	40	5200	19.50	-		30.00	-	3.27	-		Pass
11a	6Mbps	1	44	5220	22.40	-		30.00	-	3.27	-		Pass
11a	6Mbps	1	48	5240	23.60	-		30.00	-	3.27	-		Pass
HT20	MCS0	1	36	5180	15.80	-		30.00	-	3.27	-		Pass
HT20	MCS0	1	40	5200	19.10	-		30.00	-	3.27	-		Pass
HT20	MCS0	1	44	5220	22.10	-		30.00	-	3.27	-		Pass
HT20	MCS0	1	48	5240	23.60	-		30.00	-	3.27	-		Pass
HT40	MCS0	1	38	5190	15.30	-		30.00	-	3.27	-		Pass
HT40	MCS0	1	46	5230	19.60	-		30.00	-	3.27	-		Pass
VHT20	MCS0	1	36	5180	15.70	-		30.00	-	3.27	-		Pass
VHT20	MCS0	1	40	5200	19.00	-		30.00	-	3.27	-		Pass
VHT20	MCS0	1	44	5220	22.00	-		30.00	-	3.27	-		Pass
VHT20	MCS0	1	48	5240	23.50	-		30.00	-	3.27	-		Pass
VHT40	MCS0	1	38	5190	15.20	-		30.00	-	3.27	-		Pass
VHT40	MCS0	1	46	5230	19.50	-		30.00	-	3.27	-		Pass
VHT80	MCS0	1	42	5210	10.50	-		30.00	-	3.27	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 2	Ant 1	SUM	Ant 2	Ant 1	Ant 2	Ant 1		
11a	6Mbps	1	36	5180	5.41	-		17.00	-	3.27	-		Pass
11a	6Mbps	1	44	5220	12.52	-		17.00	-	3.27	-		Pass
11a	6Mbps	1	48	5240	13.66	-		17.00	-	3.27	-		Pass
HT20	MCS0	1	36	5180	4.57	-		17.00	-	3.27	-		Pass
HT20	MCS0	1	44	5220	10.99	-		17.00	-	3.27	-		Pass
HT20	MCS0	1	48	5240	13.76	-		17.00	-	3.27	-		Pass
HT40	MCS0	1	38	5190	1.02	-		17.00	-	3.27	-		Pass
HT40	MCS0	1	46	5230	5.40	-		17.00	-	3.27	-		Pass
VHT80	MCS0	1	42	5210	6.94	-		17.00	-	3.27	-		Pass

<CDD Mode>

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	36	5180	16.43	16.43	21.05	20.85	-		22.16			
11a	6Mbps	2	44	5220	16.43	16.43	20.95	20.65	-		22.16			
11a	6Mbps	2	48	5240	16.43	16.43	21.15	20.80	-		22.16			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	36	5180	23.10	21.60	25.42	30.00		3.27			Pass
11a	6Mbps	2	44	5220	23.70	23.30	26.51	30.00		3.27			Pass
11a	6Mbps	2	48	5240	23.10	22.80	25.96	30.00		3.27			Pass
HT20	MCS0	2	36	5180	22.50	21.10	24.87	30.00		3.27			Pass
HT20	MCS0	2	44	5220	23.20	22.70	25.97	30.00		3.27			Pass
HT20	MCS0	2	48	5240	23.10	22.80	25.96	30.00		3.27			Pass
HT40	MCS0	2	38	5190	17.90	16.70	20.35	30.00		3.27			Pass
HT40	MCS0	2	46	5230	20.60	20.30	23.46	30.00		3.27			Pass
VHT20	MCS0	2	36	5180	22.40	21.00	24.77	30.00		3.27			Pass
VHT20	MCS0	2	44	5220	23.10	22.60	25.87	30.00		3.27			Pass
VHT20	MCS0	2	48	5240	23.00	22.70	25.86	30.00		3.27			Pass
VHT40	MCS0	2	38	5190	17.80	16.60	20.25	30.00		3.27			Pass
VHT40	MCS0	2	46	5230	20.50	20.20	23.36	30.00		3.27			Pass
VHT80	MCS0	2	42	5210	16.30	15.80	19.07	30.00		3.27			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
11a	6Mbps	2	36	5180	-	-	15.59	16.72		6.28			Pass
11a	6Mbps	2	44	5220	-	-	16.60	16.72		6.28			Pass
11a	6Mbps	2	48	5240	-	-	16.16	16.72		6.28			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	36	5180	Full	18.93	18.93	22.60	22.50	-		22.77			
HE20	MCS0	2	44	5220	Full	18.93	18.88	22.50	22.55	-		22.76			
HE20	MCS0	2	48	5240	Full	18.93	18.88	22.45	22.75	-		22.76			
HE40	MCS0	2	38	5190	Full	37.86	37.96	42.03	41.94	-		23.01			
HE40	MCS0	2	46	5230	Full	37.96	37.96	41.94	41.76	-		23.01			
HE80	MCS0	2	42	5210	Full	77.68	77.80	82.40	82.88	-		23.01			

Report Number : FR111826C

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	36	5180	Full	22.60	21.20	24.97	30.00		3.27			Pass
HE20	MCS0	2	44	5220	Full	23.30	22.80	26.07	30.00		3.27			Pass
HE20	MCS0	2	48	5240	Full	23.20	22.90	26.06	30.00		3.27			Pass
HE40	MCS0	2	38	5190	Full	18.00	16.80	20.45	30.00		3.27			Pass
HE40	MCS0	2	46	5230	Full	20.70	20.40	23.56	30.00		3.27			Pass
HE80	MCS0	2	42	5210	Full	16.40	15.90	19.17	30.00		3.27			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	36	5180	Full	-	-	15.59	16.72		6.28			Pass
HE20	MCS0	2	44	5220	Full	-	-	16.67	16.72		6.28			Pass
HE20	MCS0	2	48	5240	Full	-	-	16.52	16.72		6.28			Pass
HE40	MCS0	2	38	5190	Full	-	-	7.05	16.72		6.28			Pass
HE40	MCS0	2	46	5230	Full	-	-	13.95	16.72		6.28			Pass
HE80	MCS0	2	42	5210	Full	-	-	2.99	16.72		6.28			Pass

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
VHT20	MCS0	2	36	5180	22.30	20.90	24.67	29.72		6.28			Pass
VHT20	MCS0	2	44	5220	23.00	22.50	25.77	29.72		6.28			Pass
VHT20	MCS0	2	48	5240	22.90	22.60	25.76	29.72		6.28			Pass
VHT40	MCS0	2	38	5190	17.70	16.50	20.15	29.72		6.28			Pass
VHT40	MCS0	2	46	5230	20.40	20.10	23.26	29.72		6.28			Pass
VHT80	MCS0	2	42	5210	16.20	15.70	18.97	29.72		6.28			Pass

Report Number : FR111826C

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 1	Ant 3	SUM	Ant 1	Ant 3	Ant 1	Ant 3		
HE20	MCS0	2	36	5180	Full	22.50	21.10	24.87	29.72		6.28			Pass
HE20	MCS0	2	44	5220	Full	23.20	22.70	25.97	29.72		6.28			Pass
HE20	MCS0	2	48	5240	Full	23.10	22.80	25.96	29.72		6.28			Pass
HE40	MCS0	2	38	5190	Full	17.90	16.70	20.35	29.72		6.28			Pass
HE40	MCS0	2	46	5230	Full	20.60	20.30	23.46	29.72		6.28			Pass
HE80	MCS0	2	42	5210	Full	16.30	15.80	19.07	29.72		6.28			Pass

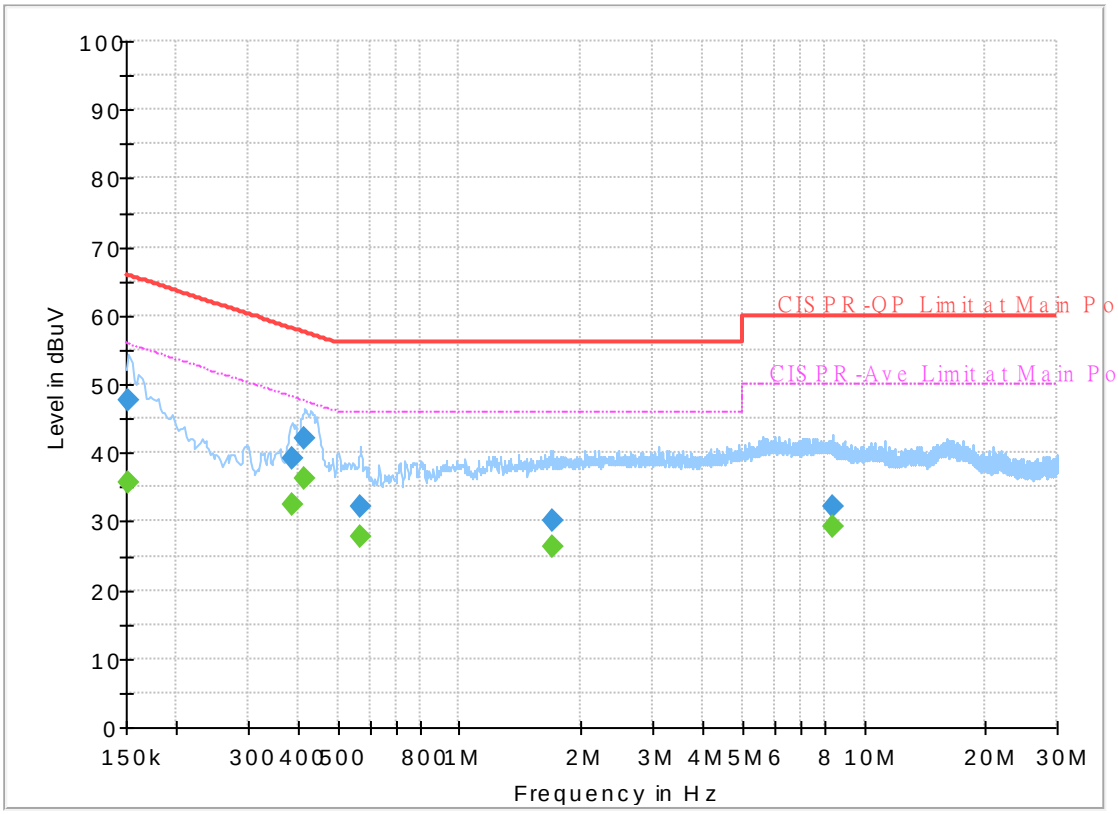
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO :	111826
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



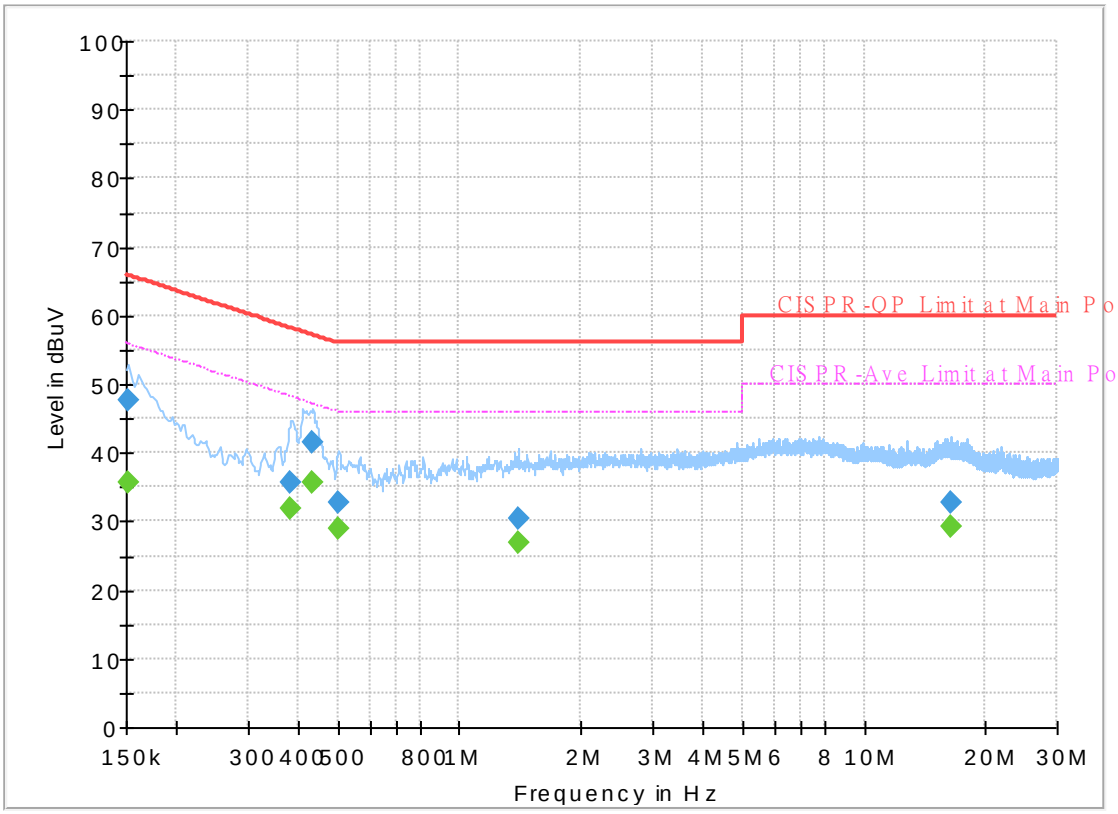
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.59	55.88	20.29	L1	OFF	19.7
0.152250	47.73	---	65.88	18.15	L1	OFF	19.7
0.388230	---	32.44	48.10	15.66	L1	OFF	19.7
0.388230	39.28	---	58.10	18.82	L1	OFF	19.7
0.415410	---	36.35	47.54	11.19	L1	OFF	19.8
0.415410	42.03	---	57.54	15.51	L1	OFF	19.8
0.566970	---	27.83	46.00	18.17	L1	OFF	19.9
0.566970	32.05	---	56.00	23.95	L1	OFF	19.9
1.695660	---	26.33	46.00	19.67	L1	OFF	20.2
1.695660	30.01	---	56.00	25.99	L1	OFF	20.2
8.391750	---	29.17	50.00	20.83	L1	OFF	20.2
8.391750	32.30	---	60.00	27.70	L1	OFF	20.2

EUT Information

Report NO :	111826
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.56	55.88	20.32	N	OFF	19.7
0.152250	47.59	---	65.88	18.29	N	OFF	19.7
0.382650	---	31.82	48.22	16.40	N	OFF	19.8
0.382650	35.72	---	58.22	22.50	N	OFF	19.8
0.433500	---	35.65	47.19	11.54	N	OFF	19.8
0.433500	41.42	---	57.19	15.77	N	OFF	19.8
0.501900	---	29.08	46.00	16.92	N	OFF	19.9
0.501900	32.76	---	56.00	23.24	N	OFF	19.9
1.396770	---	26.82	46.00	19.18	N	OFF	20.3
1.396770	30.51	---	56.00	25.49	N	OFF	20.3
16.362330	---	29.18	50.00	20.82	N	OFF	20.5
16.362330	32.62	---	60.00	27.38	N	OFF	20.5

Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	61.52	-12.48	74	46.34	31.8	13.05	29.67	266	53	P	H
		5150	53.7	-0.3	54	38.52	31.8	13.05	29.67	266	53	A	H
	*	5180	121.5	-	-	106.41	31.68	13.09	29.68	266	53	P	H
	*	5180	114.09	-	-	99	31.68	13.09	29.68	266	53	A	H
													H
													H
		5148.98	58.26	-15.74	74	43.08	31.8	13.05	29.67	100	85	P	V
		5150	49.4	-4.6	54	34.22	31.8	13.05	29.67	100	85	A	V
	*	5180	118.41	-	-	103.32	31.68	13.09	29.68	100	85	P	V
	*	5180	110.57	-	-	95.48	31.68	13.09	29.68	100	85	A	V
													V
													V
802.11a CH 44 5220MHz		5122.72	57.31	-16.69	74	42.17	31.8	13.01	29.67	263	52	P	H
		5128.44	47.92	-6.08	54	32.77	31.8	13.02	29.67	263	52	A	H
	*	5220	123.04	-	-	108.1	31.48	13.15	29.69	263	52	P	H
	*	5220	116.18	-	-	101.24	31.48	13.15	29.69	263	52	A	H
		5433.4	56.33	-17.67	74	41.05	31.5	13.5	29.72	263	52	P	H
		5405.4	46.82	-7.18	54	31.73	31.33	13.47	29.71	263	52	A	H
		5110.24	55.85	-18.15	74	40.72	31.8	13	29.67	100	85	P	V
		5032.24	47.11	-6.89	54	32.31	31.56	12.9	29.66	100	85	A	V
	*	5220	119.66	-	-	104.72	31.48	13.15	29.69	100	85	P	V
	*	5220	112.7	-	-	97.76	31.48	13.15	29.69	100	85	A	V
		5410.44	54.69	-19.31	74	39.57	31.36	13.48	29.72	100	85	P	V
		5414.64	44.39	-9.61	54	29.24	31.39	13.48	29.72	100	85	A	V

802.11a CH 48 5240MHz		5144.04	56.69	-17.31	74	41.52	31.8	13.04	29.67	270	51	P	H
		5051.48	47.92	-6.08	54	33.05	31.61	12.92	29.66	270	51	A	H
	*	5240	122.3	-	-	107.45	31.36	13.18	29.69	270	51	P	H
	*	5240	115.57	-	-	100.72	31.36	13.18	29.69	270	51	A	H
		5426.68	55.74	-18.26	74	40.51	31.46	13.49	29.72	270	51	P	H
		5376	47.34	-6.66	54	32.42	31.2	13.43	29.71	270	51	A	H
		5042.64	56.18	-17.82	74	41.34	31.59	12.91	29.66	102	85	P	V
		5047.06	46.98	-7.02	54	32.13	31.59	12.92	29.66	102	85	A	V
	*	5240	119.11	-	-	104.26	31.36	13.18	29.69	102	85	P	V
	*	5240	112	-	-	97.15	31.36	13.18	29.69	102	85	A	V
		5385.52	54.12	-19.88	74	39.15	31.24	13.44	29.71	102	85	P	V
		5435.36	44.77	-9.23	54	29.48	31.51	13.5	29.72	102	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	48.71	-19.49	68.2	46.11	39.44	19.39	56.23	100	0	P	H
		15540	46.26	-27.74	74	40.47	37.98	23.22	55.41	100	0	P	H
													H
													H
		10360	48.28	-19.92	68.2	45.68	39.44	19.39	56.23	100	0	P	V
		15540	45.91	-28.09	74	40.12	37.98	23.22	55.41	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48.52	-19.68	68.2	45.62	39.68	19.43	56.21	100	0	P	H
		15660	52.77	-21.23	74	47.32	37.56	23.32	55.43	100	329	P	H
		15660	40.76	-13.24	54	35.31	37.56	23.32	55.43	100	329	A	H
													H
		10440	49.46	-18.74	68.2	46.56	39.68	19.43	56.21	100	0	P	V
		15660	51.98	-22.02	74	46.53	37.56	23.32	55.43	100	315	P	V
		15660	39.29	-14.71	54	33.84	37.56	23.32	55.43	100	315	A	V
													V
802.11a CH 48 5240MHz		10480	49.61	-18.59	68.2	46.6	39.76	19.45	56.2	100	0	P	H
		15720	48.39	-25.61	74	43.1	37.38	23.35	55.44	100	0	P	H
													H
													H
		10480	50.91	-17.29	68.2	47.9	39.76	19.45	56.2	100	0	P	V
		15720	52.26	-21.74	74	46.97	37.38	23.35	55.44	300	334	P	V
		15720	41.92	-12.08	54	36.63	37.38	22.83	55.44	300	334	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 1+3	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)
		5147.42	62.48	-11.52	74	47.31	31.8	13.04	29.67	263	52	P	H
		5149.76	52.17	-1.83	54	36.99	31.8	13.05	29.67	263	52	A	H
	*	5180	123.78	-	-	108.69	31.68	13.09	29.68	263	52	P	H
	*	5180	113.73	-	-	98.64	31.68	13.09	29.68	263	52	A	H
802.11ax													H
HE20 Full													H
CH 36		5148.2	59.88	-14.12	74	44.7	31.8	13.05	29.67	100	86	P	V
5180MHz		5147.68	49.25	-4.75	54	34.08	31.8	13.04	29.67	100	86	A	V
	*	5180	120.12	-	-	105.03	31.68	13.09	29.68	100	86	P	V
	*	5180	110	-	-	94.91	31.68	13.09	29.68	100	86	A	V
													V
													V
		5145.34	56.29	-17.71	74	41.12	31.8	13.04	29.67	269	51	P	H
		5126.88	47.23	-6.77	54	32.08	31.8	13.02	29.67	269	51	A	H
	*	5220	124.96	-	-	110.02	31.48	13.15	29.69	269	51	P	H
	*	5220	116.43	-	-	101.49	31.48	13.15	29.69	269	51	A	H
802.11ax		5412.96	55.51	-18.49	74	40.37	31.38	13.48	29.72	269	51	P	H
HE20 Full		5376	47.23	-6.77	54	32.31	31.2	13.43	29.71	269	51	A	H
CH 44		5025.48	55.68	-18.32	74	40.89	31.55	12.89	29.65	100	85	P	V
5220MHz		5030.94	46.47	-7.53	54	31.66	31.56	12.9	29.65	100	85	A	V
	*	5220	121.25	-	-	106.31	31.48	13.15	29.69	100	85	P	V
	*	5220	112.54	-	-	97.6	31.48	13.15	29.69	100	85	A	V
		5442.08	54.38	-19.62	74	39.04	31.55	13.51	29.72	100	85	P	V
		5413.52	44.66	-9.34	54	29.52	31.38	13.48	29.72	100	85	A	V

		5043.94	56.59	-17.41	74	41.75	31.59	12.91	29.66	255	51	P	H
		5142.22	46.66	-7.34	54	31.49	31.8	13.04	29.67	255	51	A	H
	*	5240	124.27	-	-	109.42	31.36	13.18	29.69	255	51	P	H
	*	5240	115.38	-	-	100.53	31.36	13.18	29.69	255	51	A	H
802.11ax		5428.36	54.83	-19.17	74	39.59	31.47	13.49	29.72	255	51	P	H
HE20 Full		5376	46.83	-7.17	54	31.91	31.2	13.43	29.71	255	51	A	H
CH 48		5055.12	56.22	-17.78	74	41.33	31.62	12.93	29.66	100	86	P	V
5240MHz		5045.24	46.65	-7.35	54	31.8	31.59	12.92	29.66	100	86	A	V
	*	5240	120.26	-	-	105.41	31.36	13.18	29.69	100	86	P	V
	*	5240	111.48	-	-	96.63	31.36	13.18	29.69	100	86	A	V
		5435.64	53.11	-20.89	74	37.82	31.51	13.5	29.72	100	86	P	V
		5428.36	44.14	-9.86	54	28.9	31.47	13.49	29.72	100	86	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	48.28	-19.92	68.2	45.68	39.44	19.39	56.23	100	0	P	H
		15540	46.3	-27.7	74	40.51	37.98	23.22	55.41	100	0	P	H
802.11ax													H
HE20 Full													H
CH 36		10360	48.18	-20.02	68.2	45.58	39.44	19.39	56.23	100	0	P	V
5180MHz		15540	46.93	-27.07	74	41.14	37.98	23.22	55.41	100	0	P	V
													V
													V
		10440	48.77	-19.43	68.2	45.87	39.68	19.43	56.21	100	0	P	H
		15660	48.74	-25.26	74	43.29	37.56	23.32	55.43	100	0	P	H
802.11ax													H
HE20 Full													H
CH 44		10440	49.23	-18.97	68.2	46.33	39.68	19.43	56.21	100	0	P	V
5220MHz		15660	53.88	-20.12	74	48.43	37.56	23.32	55.43	221	11	P	V
		15660	42.75	-11.25	54	37.3	37.56	23.32	55.43	221	11	A	V
													V
		10480	49.36	-18.84	68.2	46.35	39.76	19.45	56.2	100	0	P	H
		15720	47.62	-26.38	74	42.33	37.38	23.35	55.44	100	0	P	H
802.11ax													H
HE20 Full													H
CH 48		10480	49.82	-18.38	68.2	46.81	39.76	19.45	56.2	100	0	P	V
5240MHz		15720	49.41	-24.59	74	44.12	37.38	23.35	55.44	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+3	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)
		5149.5	59.91	-14.09	74	44.73	31.8	13.05	29.67	268	53	P	H
		5150	52.03	-1.97	54	36.85	31.8	13.05	29.67	268	53	A	H
	*	5190	117.75	-	-	102.69	31.64	13.1	29.68	268	53	P	H
	*	5190	106.8	-	-	91.74	31.64	13.1	29.68	268	53	A	H
802.11ax		5394.76	54.2	-19.8	74	39.17	31.28	13.46	29.71	268	53	P	H
HE40 Full		5376	45.64	-8.36	54	30.72	31.2	13.43	29.71	268	53	A	H
CH 38		5145.34	58.98	-15.02	74	43.81	31.8	13.04	29.67	100	84	P	V
5190MHz		5144.82	49.17	-4.83	54	34	31.8	13.04	29.67	100	84	A	V
	*	5190	112.2	-	-	97.14	31.64	13.1	29.68	100	84	P	V
	*	5190	102.89	-	-	87.83	31.64	13.1	29.68	100	84	A	V
		5458.04	53.35	-20.65	74	37.93	31.62	13.52	29.72	100	84	P	V
		5376	43.78	-10.22	54	28.86	31.2	13.43	29.71	100	84	A	V
		5148.72	62.14	-11.86	74	46.96	31.8	13.05	29.67	268	51	P	H
		5149.24	53.02	-0.98	54	37.84	31.8	13.05	29.67	268	51	A	H
	*	5230	123.03	-	-	108.14	31.42	13.16	29.69	268	51	P	H
	*	5230	113.5	-	-	98.61	31.42	13.16	29.69	268	51	A	H
802.11ax		5418.56	56.75	-17.25	74	41.57	31.41	13.49	29.72	268	51	P	H
HE40 Full		5376	48.45	-5.55	54	33.53	31.2	13.43	29.71	268	51	A	H
CH 46		5148.46	61.68	-12.32	74	46.5	31.8	13.05	29.67	102	84	P	V
5230MHz		5149.76	50.96	-3.04	54	35.78	31.8	13.05	29.67	102	84	A	V
	*	5230	118.39	-	-	103.5	31.42	13.16	29.69	102	84	P	V
	*	5230	108.92	-	-	94.03	31.42	13.16	29.69	102	84	A	V
		5456.64	54.68	-19.32	74	39.27	31.61	13.52	29.72	102	84	P	V
		5429.48	44.71	-9.29	54	29.45	31.48	13.5	29.72	102	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	48.16	-20.04	68.2	45.46	39.52	19.4	56.22	100	0	P	H
		15570	47.55	-26.45	74	41.82	37.89	23.25	55.41	100	0	P	H
802.11ax													H
HE40 Full													H
CH 38		10380	48.24	-19.96	68.2	45.54	39.52	19.4	56.22	100	0	P	V
5190MHz		15570	47.58	-26.42	74	41.85	37.89	23.25	55.41	100	0	P	V
													V
													V
		10460	48.55	-19.65	68.2	45.6	39.72	19.44	56.21	100	0	P	H
		15690	45.97	-28.03	74	40.63	37.44	23.34	55.44	100	0	P	H
802.11ax													H
HE40 Full													H
CH 46		10460	48.07	-20.13	68.2	45.12	39.72	19.44	56.21	100	0	P	V
5230MHz		15690	47.16	-26.84	74	41.82	37.44	23.34	55.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 42 5210MHz		5148.72	63.11	-10.89	74	47.93	31.8	13.05	29.67	269	51	P	H
		5147.68	53.18	-0.82	54	38.01	31.8	13.04	29.67	269	51	A	H
	*	5210	113.49	-	-	98.5	31.54	13.13	29.68	269	51	P	H
	*	5210	102.76	-	-	87.77	31.54	13.13	29.68	269	51	A	H
		5419.96	54.83	-19.17	74	39.64	31.42	13.49	29.72	269	51	P	H
		5376	45.04	-8.96	54	30.12	31.2	13.43	29.71	269	51	A	H
		5141.7	58.91	-15.09	74	43.74	31.8	13.04	29.67	100	92	P	V
		5142.48	49.91	-4.09	54	34.74	31.8	13.04	29.67	100	92	A	V
	*	5210	107.38	-	-	92.39	31.54	13.13	29.68	100	92	P	V
	*	5210	98.78	-	-	83.79	31.54	13.13	29.68	100	92	A	V
		5376.28	53.08	-20.92	74	38.15	31.21	13.43	29.71	100	92	P	V
		5458.88	42.82	-11.18	54	27.4	31.62	13.52	29.72	100	92	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	48.83	-19.37	68.2	45.99	39.64	19.42	56.22	100	0	P	H
		15630	47.04	-26.96	74	41.5	37.68	23.29	55.43	100	0	P	H
802.11ax													H
HE80 Full													H
CH 42		10420	48.89	-19.31	68.2	46.05	39.64	19.42	56.22	100	0	P	V
5210MHz		15630	47.18	-26.82	74	41.64	37.68	23.29	55.43	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		268.62	38.16	-7.84	46	48.67	19.39	2.76	32.66	-	-	P	H
		281.23	37.48	-8.52	46	48.38	18.9	2.82	32.62	-	-	P	H
		500.45	37.97	-8.03	46	42.69	24.16	3.78	32.66	-	-	P	H
		527.61	37.35	-8.65	46	41.98	24.12	3.91	32.66	-	-	P	H
		722.58	37.94	-8.06	46	38.42	27.38	4.64	32.5	100	37	Q	H
		835.1	38.99	-7.01	46	37.82	28.85	5.03	32.71	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		51.34	32.43	-7.57	40	50.57	13.71	0.99	32.84	-	-	P	V
		95.96	34.74	-8.76	43.5	50.37	15.49	1.5	32.62	-	-	P	V
		499.48	41.2	-4.8	46	45.93	24.15	3.78	32.66	121	261	Q	V
		719.67	38.67	-7.33	46	39.34	27.19	4.63	32.49	-	-	P	V
		739.07	39.72	-6.28	46	39.55	28.07	4.68	32.58	-	-	P	V
		835.1	39.16	-6.84	46	37.99	28.85	5.03	32.71	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5146.9	62.86	-11.14	74	47.69	31.8	13.04	29.67	102	127	P	H
		5150	52.39	-1.61	54	37.21	31.8	13.05	29.67	102	127	A	H
	*	5180	115.08	-	-	99.99	31.68	13.09	29.68	102	127	P	H
	*	5180	106.75	-	-	91.66	31.68	13.09	29.68	102	127	A	H
													H
													H
		5150	60.79	-13.21	74	45.61	31.8	13.05	29.67	101	88	P	V
		5150	50.89	-3.11	54	35.71	31.8	13.05	29.67	101	88	A	V
	*	5180	113.2	-	-	98.11	31.68	13.09	29.68	101	88	P	V
	*	5180	105.06	-	-	89.97	31.68	13.09	29.68	101	88	A	V
													V
													V
802.11a CH 40 5200MHz		5149.76	57.47	-16.53	74	42.29	31.8	13.05	29.67	102	125	P	H
		5120.12	49.39	-4.61	54	34.25	31.8	13.01	29.67	102	125	A	H
	*	5200	117.84	-	-	102.81	31.6	13.11	29.68	102	125	P	H
	*	5200	109.47	-	-	94.44	31.6	13.11	29.68	102	125	A	H
													H
													H
		5026.26	54.87	-19.13	74	40.08	31.55	12.89	29.65	101	86	P	V
		5119.86	46.81	-7.19	54	31.67	31.8	13.01	29.67	101	86	A	V
	*	5200	113.96	-	-	98.93	31.6	13.11	29.68	101	86	P	V
	*	5200	105.87	-	-	90.84	31.6	13.11	29.68	101	86	A	V
													V
													V

802.11a CH 44 5220MHz		5150	65.94	-8.06	74	50.76	31.8	13.05	29.67	101	127	P	H
		5150	52.57	-1.43	54	37.39	31.8	13.05	29.67	101	127	A	H
	*	5220	119.86	-	-	104.92	31.48	13.15	29.69	101	127	P	H
	*	5220	110.71	-	-	95.77	31.48	13.15	29.69	101	127	A	H
		5419.96	61.09	-12.91	74	45.9	31.42	13.49	29.72	101	127	P	H
		5359.76	51.83	-2.17	54	37	31.14	13.4	29.71	101	127	A	H
		5148.2	62.79	-11.21	74	47.61	31.8	13.05	29.67	100	88	P	V
		5150	50.84	-3.16	54	35.66	31.8	13.05	29.67	100	88	A	V
	*	5220	117.91	-	-	102.97	31.48	13.15	29.69	100	88	P	V
	*	5220	108.5	-	-	93.56	31.48	13.15	29.69	100	88	A	V
		5372.64	59.99	-14.01	74	45.09	31.19	13.42	29.71	100	88	P	V
		5439.84	50.62	-3.38	54	35.3	31.54	13.5	29.72	100	88	A	V
802.11a CH 48 5240MHz		5148.72	60.19	-13.81	74	45.01	31.8	13.05	29.67	100	126	P	H
		5150	49.24	-4.76	54	34.06	31.8	13.05	29.67	100	126	A	H
	*	5240	119.65	-	-	104.8	31.36	13.18	29.69	100	126	P	H
	*	5240	110.37	-	-	95.52	31.36	13.18	29.69	100	126	A	H
		5394.76	59.71	-14.29	74	44.68	31.28	13.46	29.71	100	126	P	H
		5439.84	50.72	-3.28	54	35.4	31.54	13.5	29.72	100	126	A	H
		5150	58.19	-15.81	74	43.01	31.8	13.05	29.67	100	94	P	V
		5119.86	47.91	-6.09	54	32.77	31.8	13.01	29.67	100	94	A	V
	*	5240	117	-	-	102.15	31.36	13.18	29.69	100	94	P	V
	*	5240	107.83	-	-	92.98	31.36	13.18	29.69	100	94	A	V
		5406.24	59.39	-14.61	74	44.28	31.34	13.48	29.71	100	94	P	V
		5440.12	51.26	-2.74	54	35.94	31.54	13.5	29.72	100	94	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	48.89	-19.31	68.2	46.29	39.44	19.39	56.23	100	0	P	H
		15540	47.58	-26.42	74	41.79	37.98	23.22	55.41	100	0	P	H
													H
													H
		10360	48.6	-19.6	68.2	46	39.44	19.39	56.23	100	0	P	V
		15540	47.36	-26.64	74	41.57	37.98	23.22	55.41	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	47.92	-20.28	68.2	45.02	39.68	19.43	56.21	100	0	P	H
		15660	54.74	-19.26	74	49.29	37.56	23.32	55.43	238	43	P	H
		15660	45.2	-8.8	54	39.75	37.56	23.32	55.43	238	43	A	H
													H
		10440	48.2	-20	68.2	45.3	39.68	19.43	56.21	100	0	P	V
		15660	55.22	-18.78	74	49.77	37.56	23.32	55.43	286	324	P	V
		15660	44.56	-9.44	54	39.11	37.56	23.32	55.43	286	324	A	V
													V
802.11a CH 48 5240MHz		10480	48.2	-20	68.2	45.19	39.76	19.45	56.2	100	0	P	H
		15720	52.5	-21.5	74	47.21	37.38	23.35	55.44	100	329	P	H
		15720	40.74	-13.26	54	35.45	37.38	23.35	55.44	100	329	A	H
													H
		10480	48.33	-19.87	68.2	45.32	39.76	19.45	56.2	100	0	P	V
		15720	54.44	-19.56	74	49.15	37.38	23.35	55.44	278	350	P	V
		15720	43.89	-10.11	54	38.6	37.38	23.35	55.44	278	350	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.46	59.78	-14.22	74	44.6	31.8	13.05	29.67	101	127	P	H
		5150	51.28	-2.72	54	36.1	31.8	13.05	29.67	101	127	A	H
	*	5180	114.01	-	-	98.92	31.68	13.09	29.68	101	127	P	H
	*	5180	106.41	-	-	91.32	31.68	13.09	29.68	101	127	A	H
802.11n													H
HT20													H
CH 36		5149.24	58.38	-15.62	74	43.2	31.8	13.05	29.67	100	88	P	V
5180MHz		5148.98	49.38	-4.62	54	34.2	31.8	13.05	29.67	100	88	A	V
	*	5180	112.45	-	-	97.36	31.68	13.09	29.68	100	88	P	V
	*	5180	104.52	-	-	89.43	31.68	13.09	29.68	100	88	A	V
													V
													V
		5149.24	62.47	-11.53	74	47.29	31.8	13.05	29.67	100	125	P	H
		5150	49.64	-4.36	54	34.46	31.8	13.05	29.67	100	125	A	H
	*	5200	117.64	-	-	102.61	31.6	13.11	29.68	100	125	P	H
	*	5200	108.57	-	-	93.54	31.6	13.11	29.68	100	125	A	H
802.11n													H
HT20													H
CH 40		5147.16	55.72	-18.28	74	40.55	31.8	13.04	29.67	100	85	P	V
5200MHz		5149.76	47.13	-6.87	54	31.95	31.8	13.05	29.67	100	85	A	V
	*	5200	114.36	-	-	99.33	31.6	13.11	29.68	100	85	P	V
	*	5200	105.31	-	-	90.28	31.6	13.11	29.68	100	85	A	V
													V
													V

		5150	62.07	-11.93	74	46.89	31.8	13.05	29.67	100	127	P	H
		5150	53.48	-0.52	54	38.3	31.8	13.05	29.67	100	127	A	H
	*	5220	119.1	-	-	104.16	31.48	13.15	29.69	100	127	P	H
	*	5220	110.75	-	-	95.81	31.48	13.15	29.69	100	127	A	H
802.11n		5376.56	62.62	-11.38	74	47.69	31.21	13.43	29.71	100	127	P	H
HT20		5360.04	53.75	-0.25	54	38.92	31.14	13.4	29.71	100	127	A	H
CH 44		5149.24	61.89	-12.11	74	46.71	31.8	13.05	29.67	100	88	P	V
5220MHz		5148.98	51.25	-2.75	54	36.07	31.8	13.05	29.67	100	88	A	V
	*	5220	117.01	-	-	102.07	31.48	13.15	29.69	100	88	P	V
	*	5220	108.51	-	-	93.57	31.48	13.15	29.69	100	88	A	V
		5381.6	60.73	-13.27	74	45.77	31.23	13.44	29.71	100	88	P	V
		5440.12	51.65	-2.35	54	36.33	31.54	13.5	29.72	100	88	A	V
		5148.98	60.07	-13.93	74	44.89	31.8	13.05	29.67	100	127	P	H
		5149.76	50.38	-3.62	54	35.2	31.8	13.05	29.67	100	127	A	H
	*	5240	119.06	-	-	104.21	31.36	13.18	29.69	100	127	P	H
	*	5240	110.67	-	-	95.82	31.36	13.18	29.69	100	127	A	H
802.11n		5393.08	60.87	-13.13	74	45.85	31.27	13.46	29.71	100	127	P	H
HT20		5360.04	52.02	-1.98	54	37.19	31.14	13.4	29.71	100	127	A	H
CH 48		5148.72	58.07	-15.93	74	42.89	31.8	13.05	29.67	100	93	P	V
5240MHz		5119.86	48.77	-5.23	54	33.63	31.8	13.01	29.67	100	93	A	V
	*	5240	116.56	-	-	101.71	31.36	13.18	29.69	100	93	P	V
	*	5240	108.22	-	-	93.37	31.36	13.18	29.69	100	93	A	V
		5399.52	59.74	-14.26	74	44.68	31.3	13.47	29.71	100	93	P	V
		5439.84	51.76	-2.24	54	36.44	31.54	13.5	29.72	100	93	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	48.91	-19.29	68.2	46.31	39.44	19.39	56.23	100	0	P	H
		15540	46.59	-27.41	74	40.8	37.98	23.22	55.41	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	48.7	-19.5	68.2	46.1	39.44	19.39	56.23	100	0	P	V
5180MHz		15540	47.76	-26.24	74	41.97	37.98	23.22	55.41	100	0	P	V
													V
													V
		10440	49.17	-19.03	68.2	46.27	39.68	19.43	56.21	100	0	P	H
		15660	49.63	-24.37	74	44.18	37.56	23.32	55.43	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	48.78	-19.42	68.2	45.88	39.68	19.43	56.21	100	0	P	V
5220MHz		15660	51.24	-22.76	74	45.79	37.56	23.32	55.43	100	64	P	V
		15660	42.1	-11.9	54	36.65	37.56	23.32	55.43	100	64	A	V
													V
		10480	49.35	-18.85	68.2	46.34	39.76	19.45	56.2	100	0	P	H
		15720	57.14	-16.86	74	51.85	37.38	23.35	55.44	299	287	P	H
802.11n		15720	47.1	-6.9	54	41.81	37.38	23.35	55.44	299	287	A	H
HT20													H
CH 48		10480	48.65	-19.55	68.2	45.64	39.76	19.45	56.2	100	0	P	V
5240MHz		15720	55.14	-18.86	74	49.85	37.38	23.35	55.44	299	349	P	V
		15720	45.55	-8.45	54	40.26	37.38	23.35	55.44	299	349	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	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)
802.11n HT40 CH 38 5190MHz		5150	60.51	-13.49	74	45.33	31.8	13.05	29.67	101	127	P	H
		5150	52.97	-1.03	54	37.79	31.8	13.05	29.67	101	127	A	H
	*	5190	110.95	-	-	95.89	31.64	13.1	29.68	101	127	P	H
	*	5190	103.18	-	-	88.12	31.64	13.1	29.68	101	127	A	H
		5363.68	59.3	-14.7	74	44.46	31.15	13.4	29.71	101	127	P	H
		5359.76	53.13	-0.87	54	38.3	31.14	13.4	29.71	101	127	A	H
		5140.66	59.35	-14.65	74	44.18	31.8	13.04	29.67	101	88	P	V
		5149.76	51.04	-2.96	54	35.86	31.8	13.05	29.67	101	88	A	V
	*	5190	108.83	-	-	93.77	31.64	13.1	29.68	101	88	P	V
	*	5190	101.15	-	-	86.09	31.64	13.1	29.68	101	88	A	V
		5386.36	57.8	-16.2	74	42.81	31.25	13.45	29.71	101	88	P	V
		5360.04	50.6	-3.4	54	35.77	31.14	13.4	29.71	101	88	A	V
802.11n HT40 CH 46 5230MHz		5147.68	61.34	-12.66	74	46.17	31.8	13.04	29.67	100	126	P	H
		5149.76	52.19	-1.81	54	37.01	31.8	13.05	29.67	100	126	A	H
	*	5230	113.58	-	-	98.69	31.42	13.16	29.69	100	126	P	H
	*	5230	105.9	-	-	91.01	31.42	13.16	29.69	100	126	A	H
		5359.48	58.79	-15.21	74	43.96	31.14	13.4	29.71	100	126	P	H
		5360.04	52.19	-1.81	54	37.36	31.14	13.4	29.71	100	126	A	H
		5149.76	59.41	-14.59	74	44.23	31.8	13.05	29.67	101	87	P	V
		5149.76	51.4	-2.6	54	36.22	31.8	13.05	29.67	101	87	A	V
	*	5230	110.67	-	-	95.78	31.42	13.16	29.69	101	87	P	V
	*	5230	103	-	-	88.11	31.42	13.16	29.69	101	87	A	V
		5377.4	57.4	-16.6	74	42.47	31.21	13.43	29.71	101	87	P	V
		5360.04	50.41	-3.59	54	35.58	31.14	13.4	29.71	101	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	49.61	-18.59	68.2	46.91	39.52	19.4	56.22	100	0	P	H
		15570	47.3	-26.7	74	41.57	37.89	23.25	55.41	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	48.25	-19.95	68.2	45.55	39.52	19.4	56.22	100	0	P	V
5190MHz		15570	47.82	-26.18	74	42.09	37.89	23.25	55.41	100	0	P	V
													V
													V
		10460	48.47	-19.73	68.2	45.52	39.72	19.44	56.21	100	0	P	H
		15690	46.71	-27.29	74	41.37	37.44	23.34	55.44	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	48.2	-20	68.2	45.25	39.72	19.44	56.21	100	0	P	V
5230MHz		15690	47.16	-26.84	74	41.82	37.44	23.34	55.44	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	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)
802.11ac VHT80 CH 42 5210MHz		5147.94	63.1	-10.9	74	47.93	31.8	13.04	29.67	100	128	P	H
		5150	53.12	-0.88	54	37.94	31.8	13.05	29.67	100	128	A	H
	*	5210	101.55	-	-	86.56	31.54	13.13	29.68	100	128	P	H
	*	5210	93.6	-	-	78.61	31.54	13.13	29.68	100	128	A	H
		5374.88	55.38	-18.62	74	40.47	31.2	13.42	29.71	100	128	P	H
		5360.04	49.07	-4.93	54	34.24	31.14	13.4	29.71	100	128	A	H
		5150	60.09	-13.91	74	44.91	31.8	13.05	29.67	100	92	P	V
		5149.76	51.06	-2.94	54	35.88	31.8	13.05	29.67	100	92	A	V
	*	5210	99.12	-	-	84.13	31.54	13.13	29.68	100	92	P	V
	*	5210	90.91	-	-	75.92	31.54	13.13	29.68	100	92	A	V
		5390.84	55	-19	74	40	31.26	13.45	29.71	100	92	P	V
		5360.04	47.71	-6.29	54	32.88	31.14	13.4	29.71	100	92	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	48.64	-19.56	68.2	45.8	39.64	19.42	56.22	100	0	P	H
		15630	46.56	-27.44	74	41.02	37.68	23.29	55.43	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	48.28	-19.92	68.2	45.44	39.64	19.42	56.22	100	0	P	V
5210MHz		15630	46.93	-27.07	74	41.39	37.68	23.29	55.43	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant. 2	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)
802.11n HT20 LF		250.19	38.11	-7.89	46	49.65	18.52	2.67	32.73	-	-	P	H
		499.48	40.93	-5.07	46	45.66	24.15	3.78	32.66	161	87	Q	H
		531.49	36.9	-9.1	46	41.45	24.19	3.92	32.66	-	-	P	H
		600.36	36.22	-9.78	46	39.02	25.65	4.22	32.67	-	-	P	H
		719.67	38.01	-7.99	46	38.68	27.19	4.63	32.49	-	-	P	H
		803.09	36.98	-9.02	46	36.82	28.06	4.95	32.85	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.31	31.39	-8.61	40	49.94	13.29	1	32.84	-	-	P	V
		94.99	34.59	-8.91	43.5	50.44	15.29	1.49	32.63	-	-	P	V
		500.45	42.58	-3.42	46	47.3	24.16	3.78	32.66	132	228	Q	V
		600.36	36.51	-9.49	46	39.31	25.65	4.22	32.67	-	-	P	V
		729.37	37.08	-8.92	46	37.23	27.74	4.65	32.54	-	-	P	V
		955.38	34.38	-11.62	46	29.53	30.95	5.46	31.56	-	-	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.	
2		(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. Radiated Spurious Emission

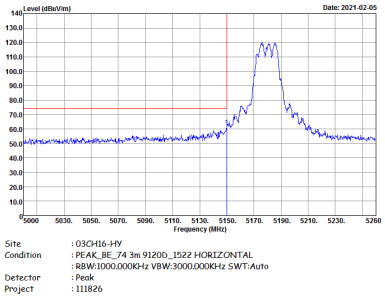
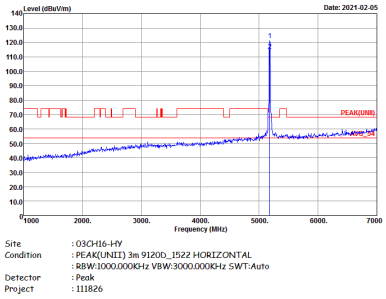
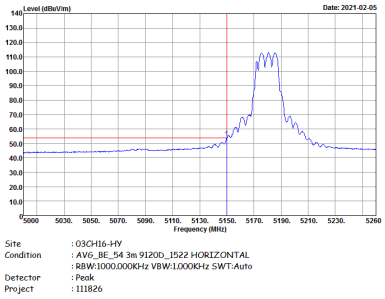
Test Engineer :	Karl Hou, Caster Liao and Andy Yang	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

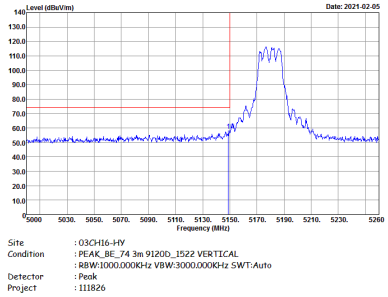
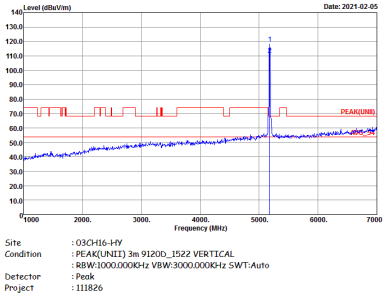
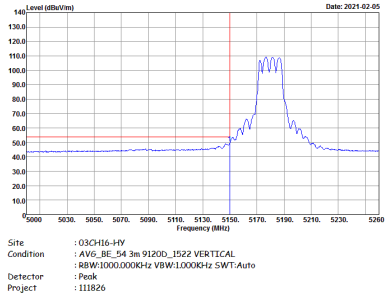
Note symbol

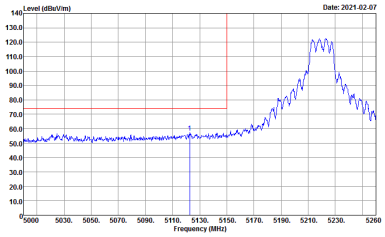
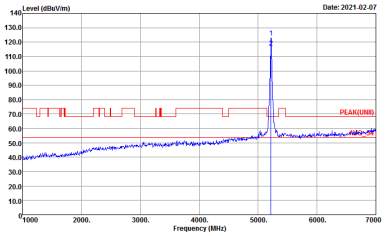
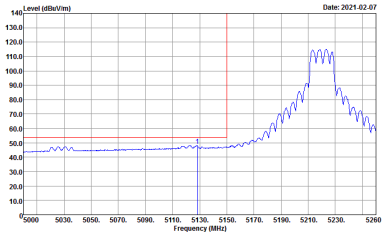
-L	**Low channel location**
-R	**High channel location**

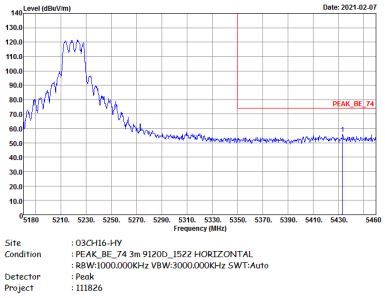
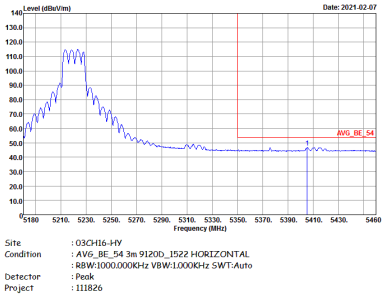
Band 1 - 5150~5250MHz

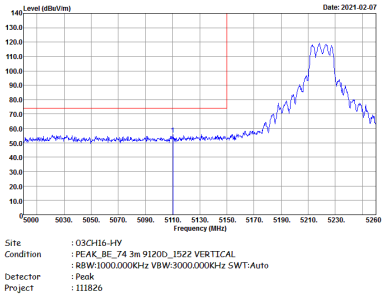
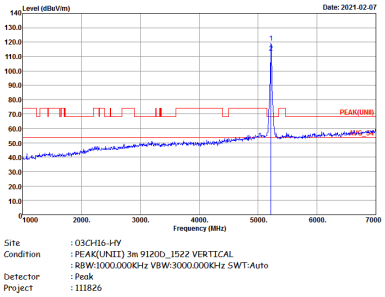
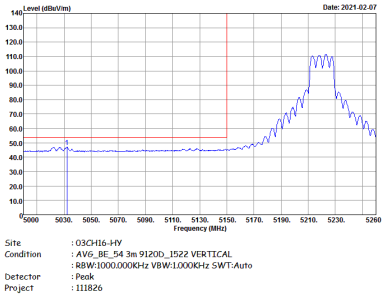
WIFI 802.11a (Band Edge @ 3m)

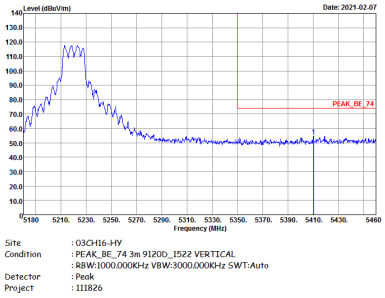
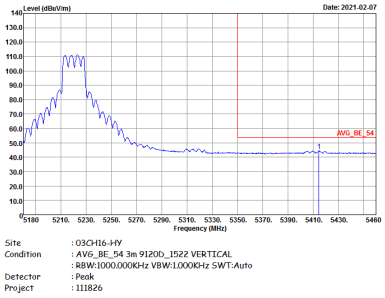
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

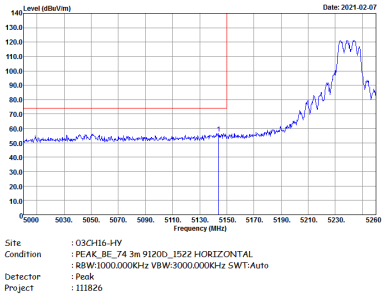
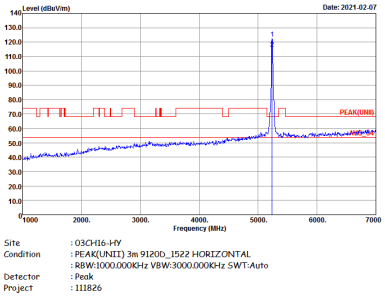
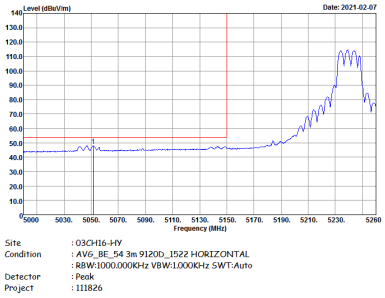
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

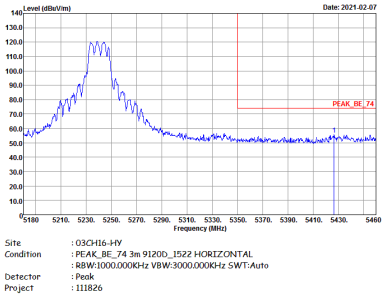
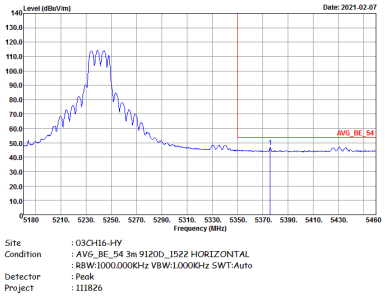
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

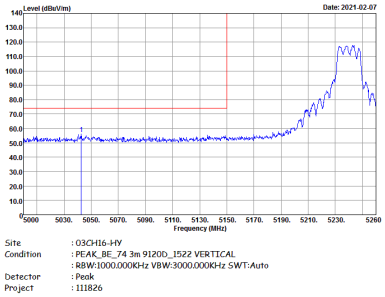
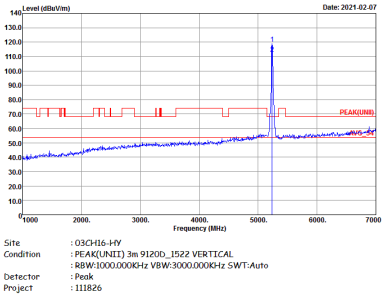
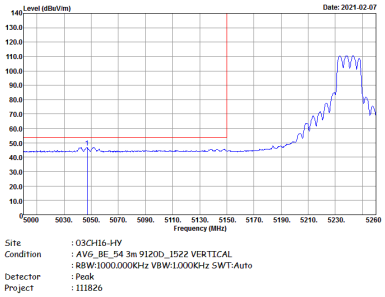
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

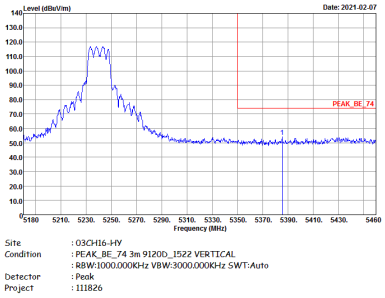
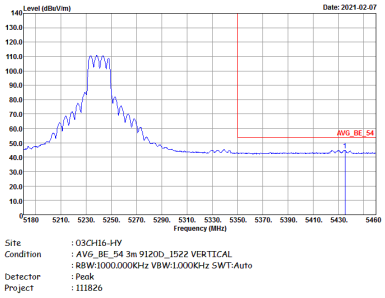
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

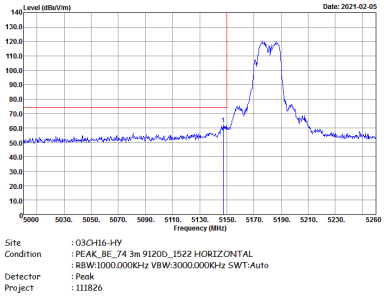
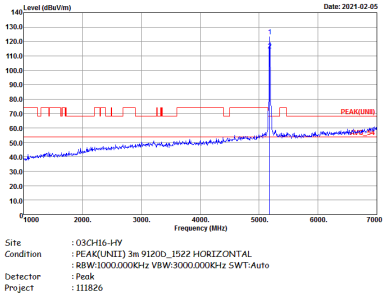
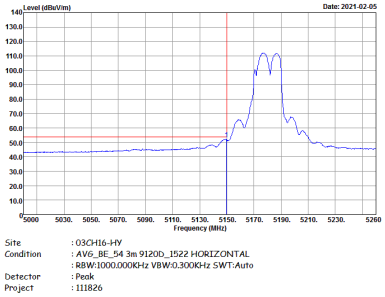
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

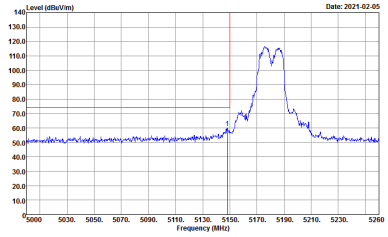
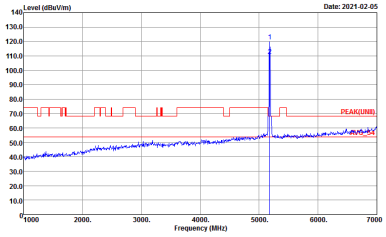
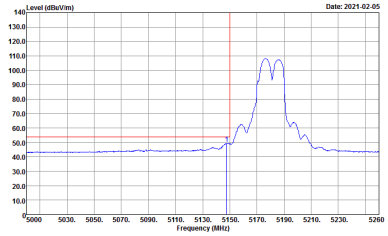
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

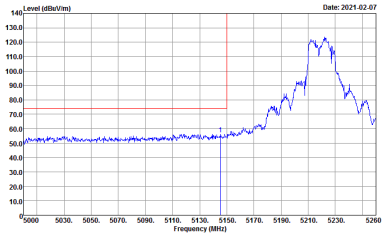
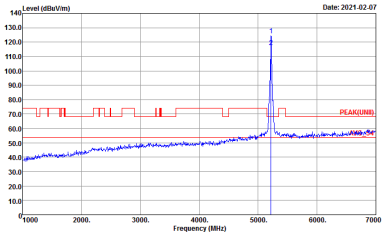
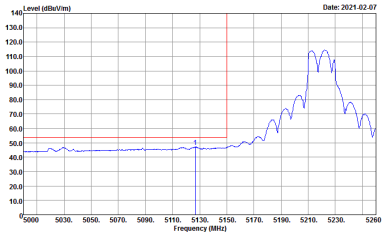
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

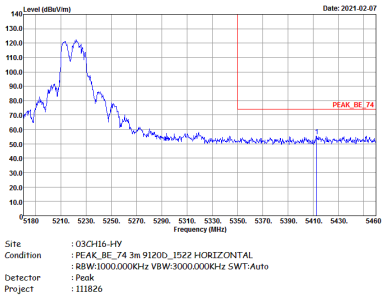
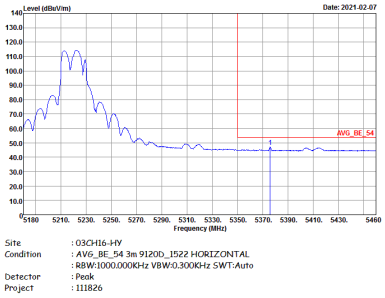
Band 1 5150~5250MHz

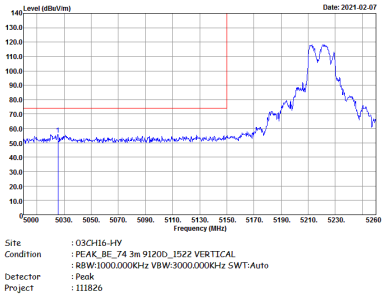
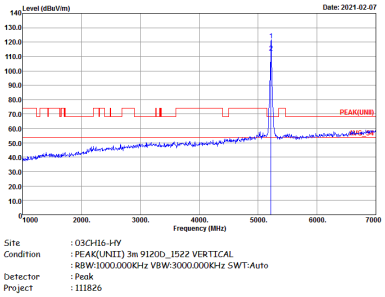
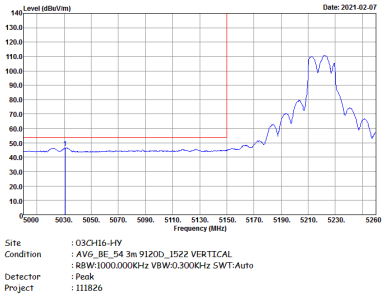
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

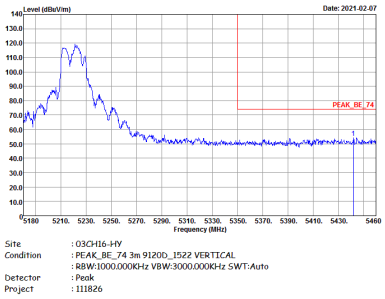
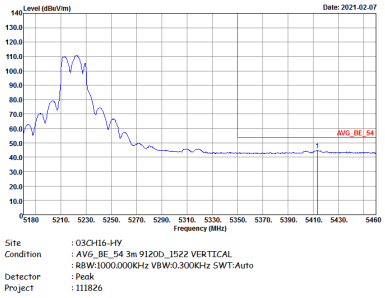
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

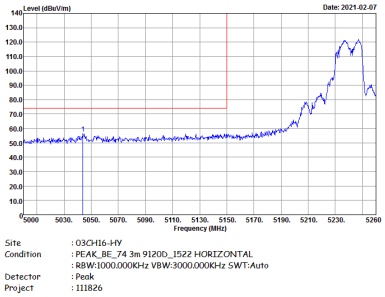
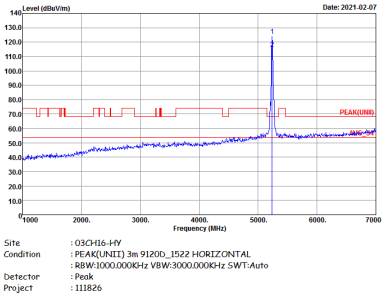
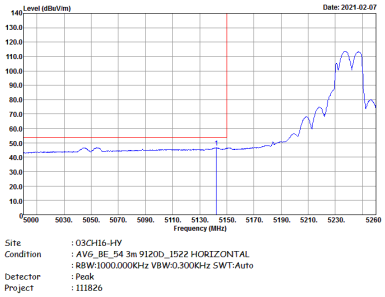
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 111826	Left blank

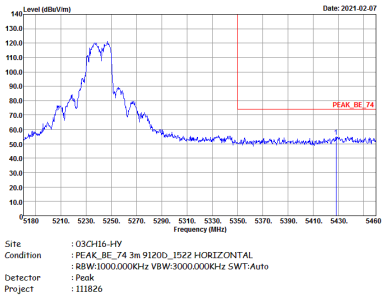
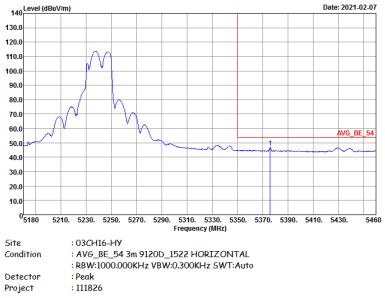
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

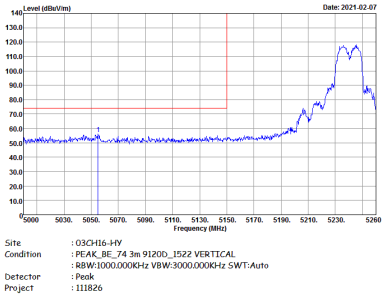
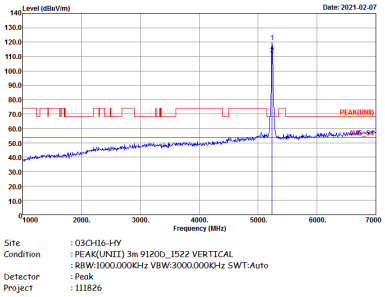
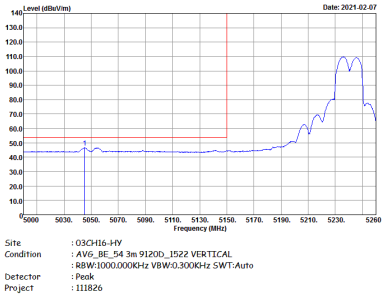
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

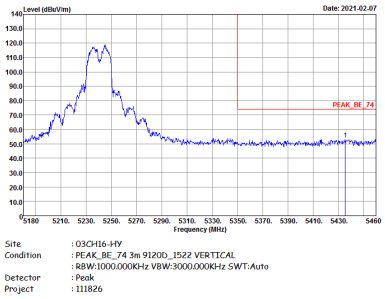
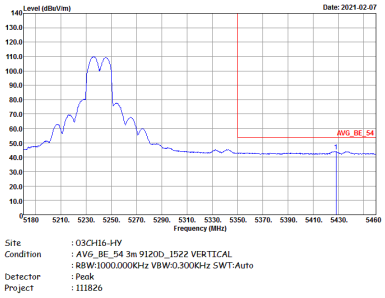
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

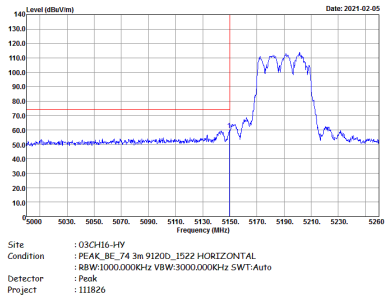
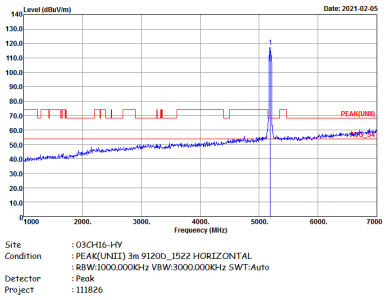
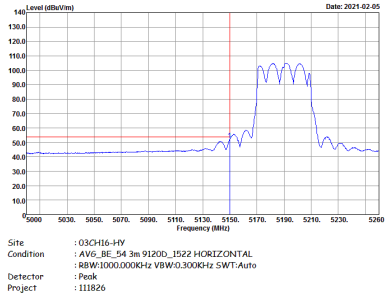
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

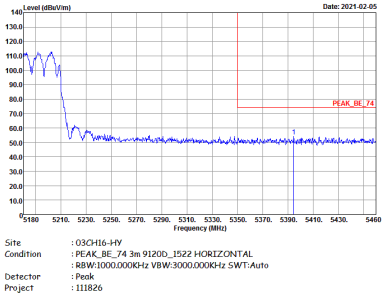
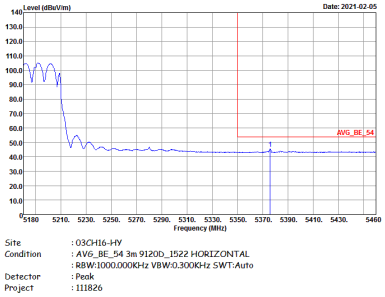
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

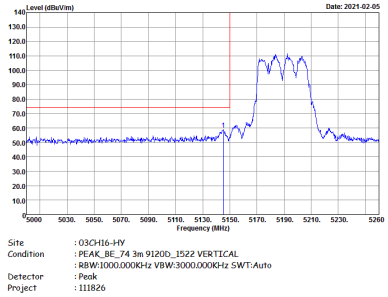
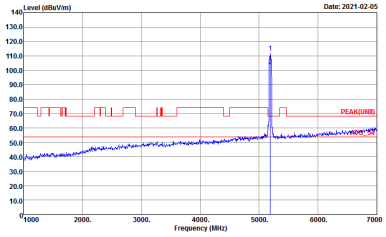
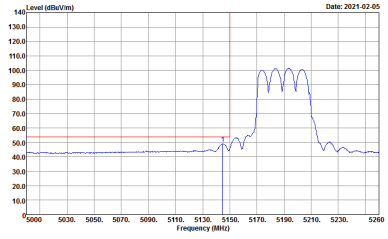
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

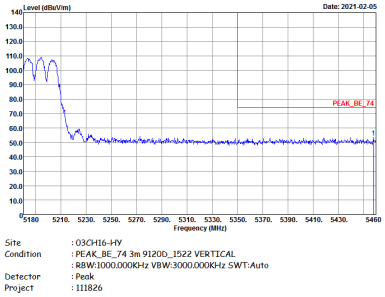
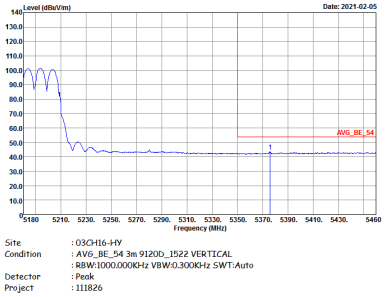
Band 1 5150~5250MHz

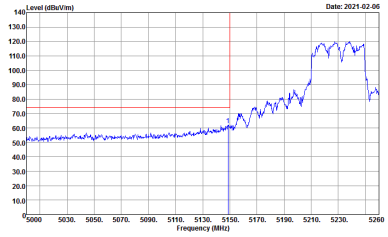
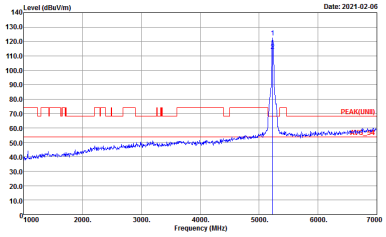
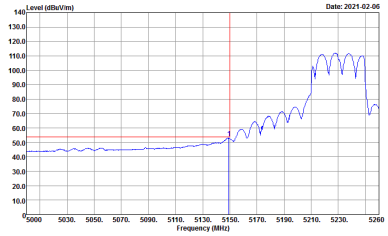
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

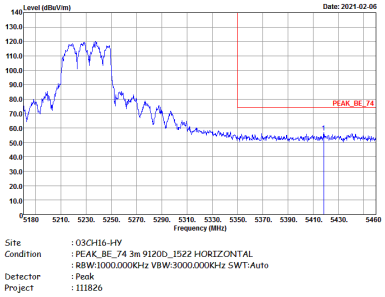
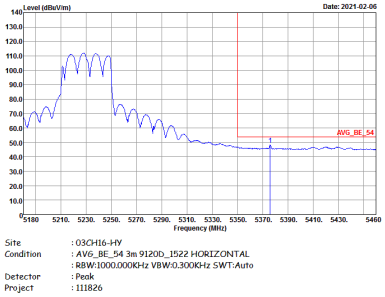
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

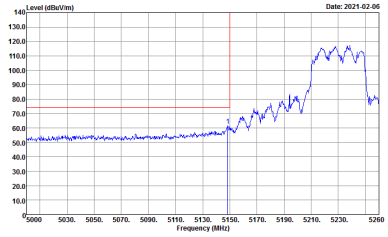
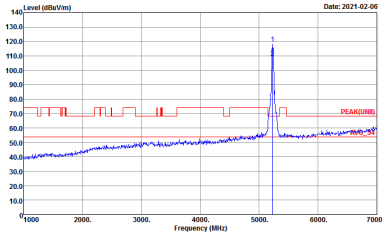
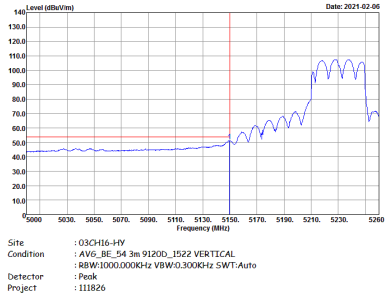
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

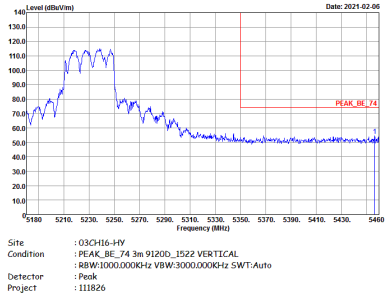
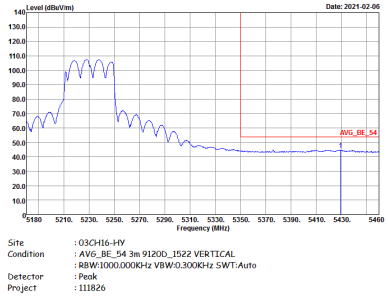
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 111826	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
1+3	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 111826	Left blank

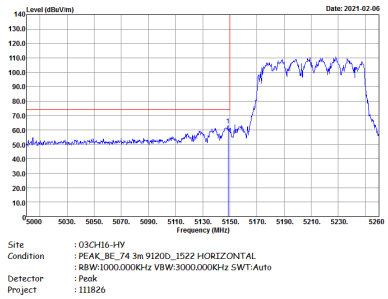
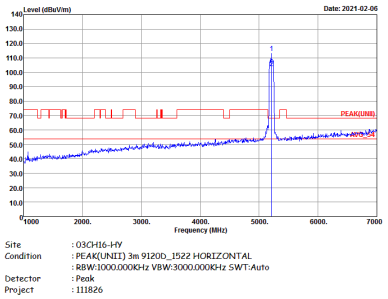
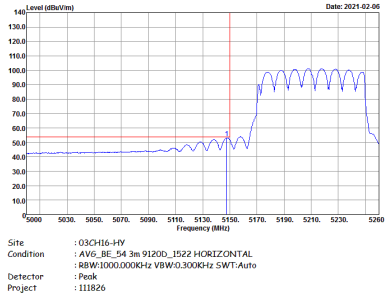
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

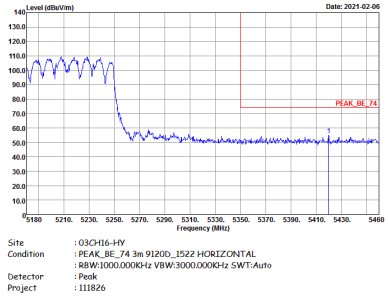
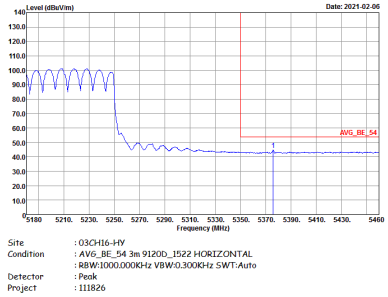
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
1+3	Vertical	Fundamental
Peak		
Avg.		Left blank

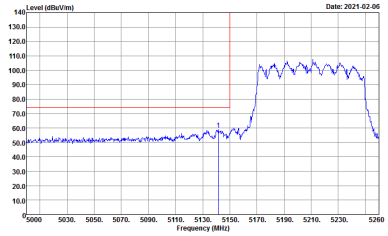
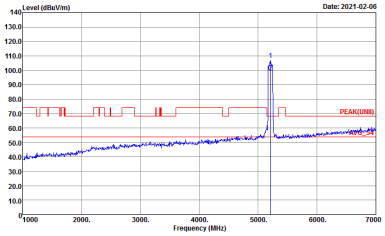
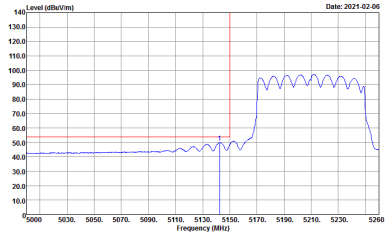
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

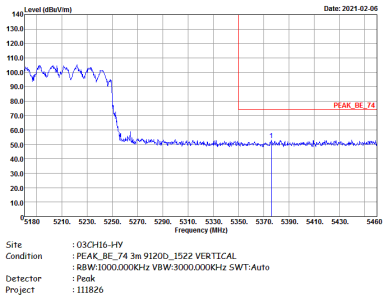
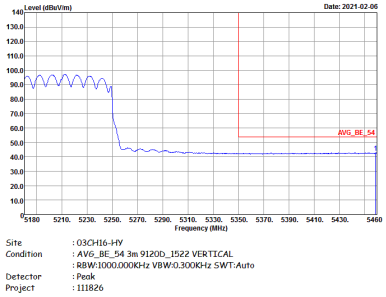
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

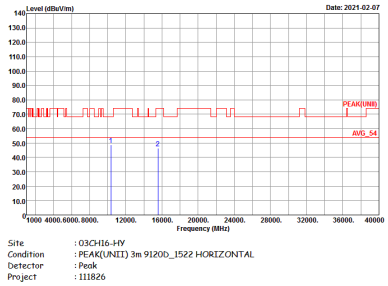
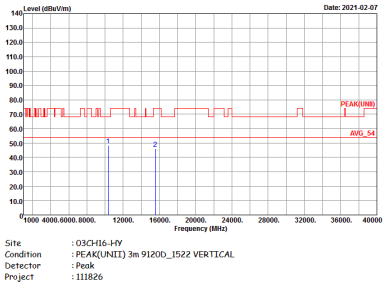
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

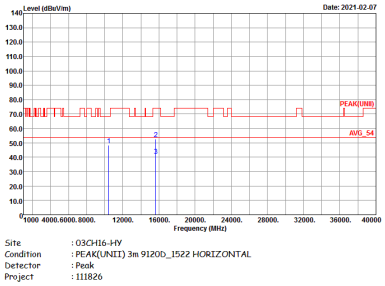
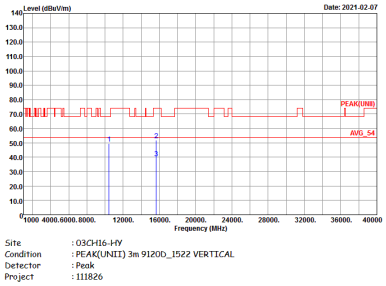
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+3	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 111826	Left blank

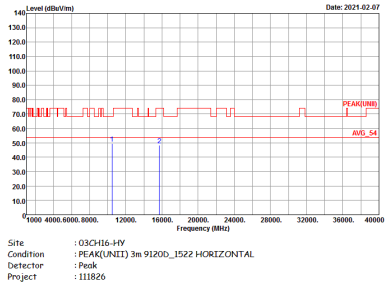
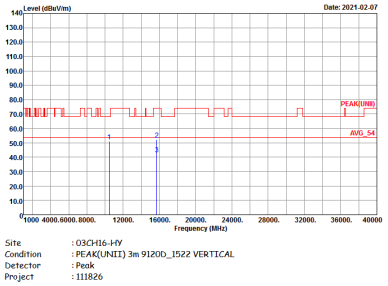
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

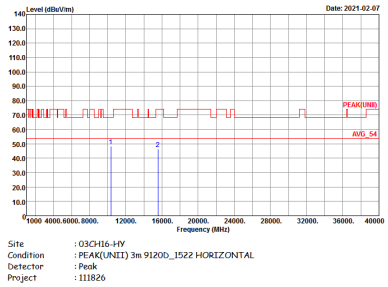
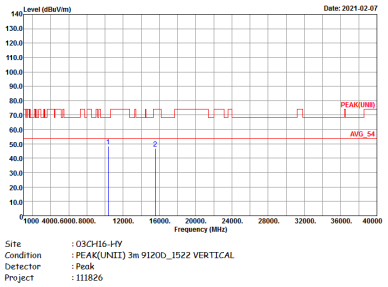
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+3	Horizontal	Vertical
Peak Avg.		

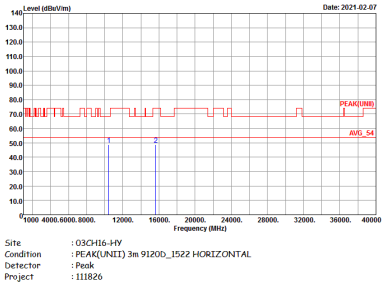
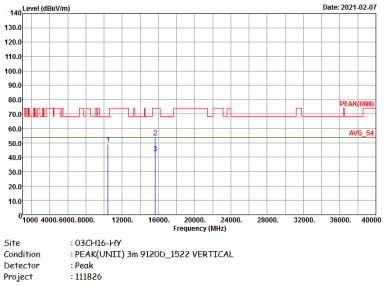
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+3	Horizontal	Vertical
Peak Avg.		

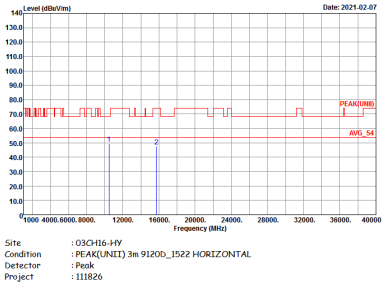
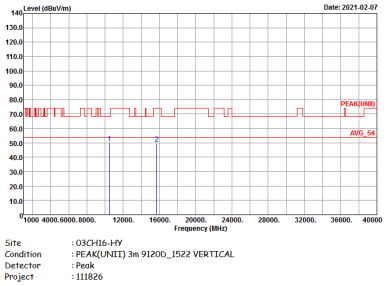
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+3	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

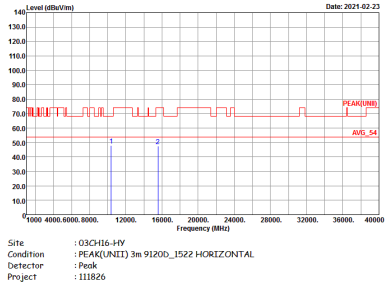
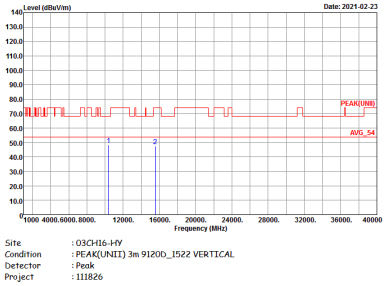
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+3	Horizontal	Vertical
Peak Avg.		

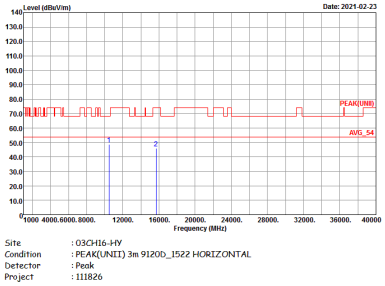
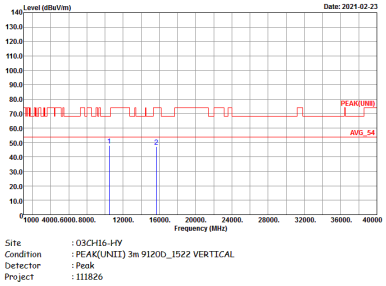
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

Band 1 5150~5250MHz

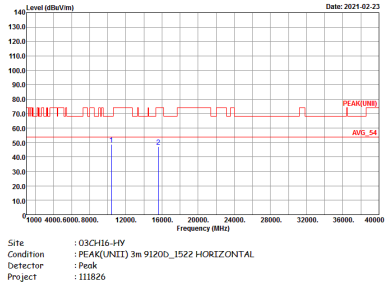
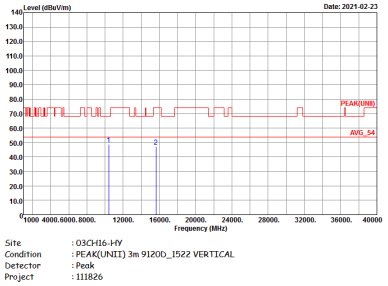
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
1+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
1+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

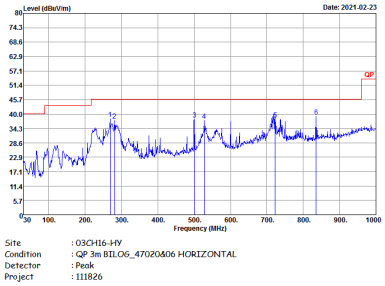
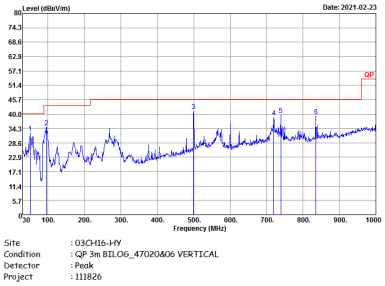
Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
1+3	Horizontal	Vertical
Peak Avg.		

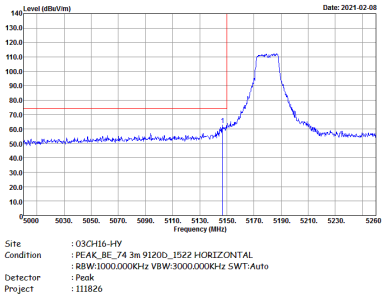
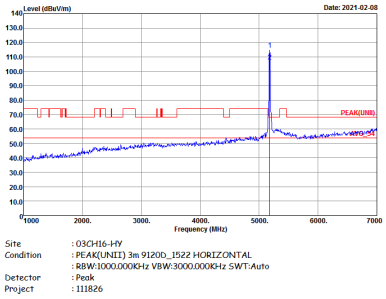
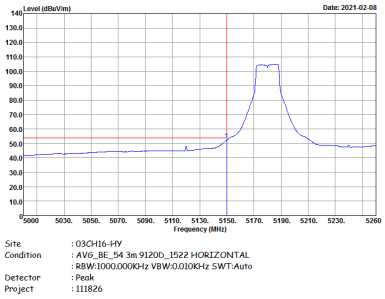
Emission below 1GHz

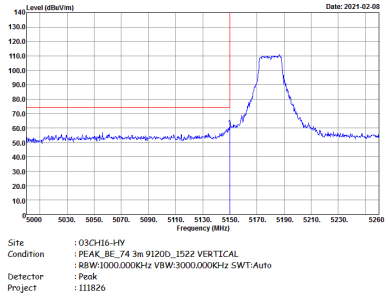
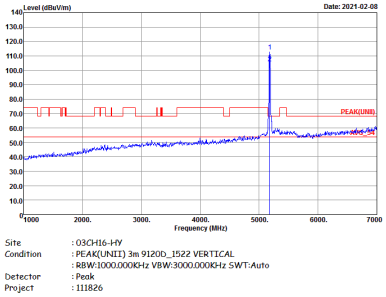
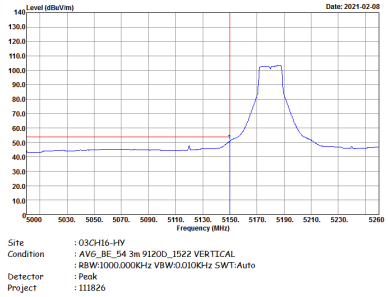
5GHz WIFI 802.11a (LF)

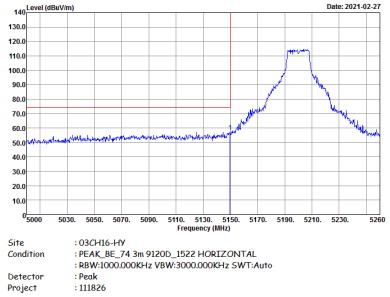
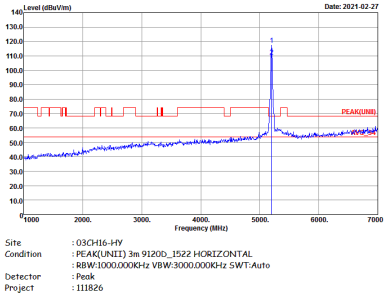
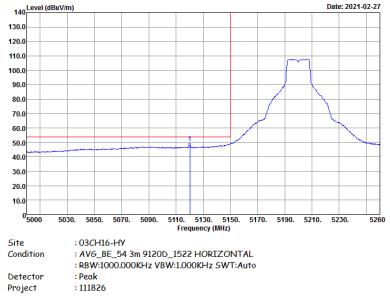
WIFI	5GHz WIFI	
ANT	802.11a LF	
1+3	Horizontal	Vertical
QP / Peak		

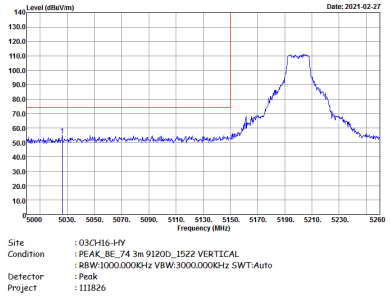
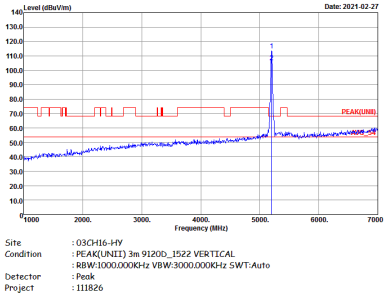
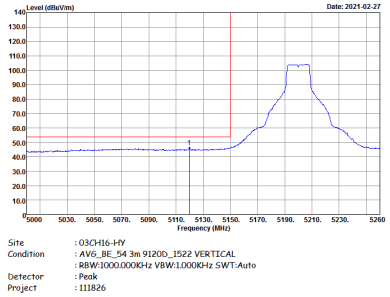
Band 1 - 5150~5250MHz

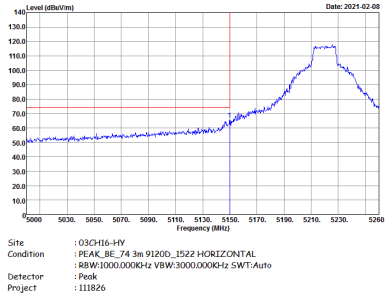
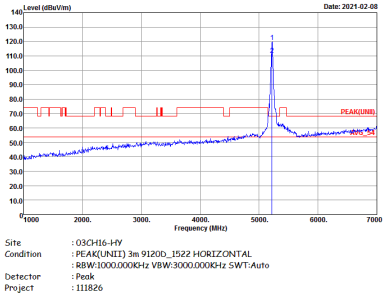
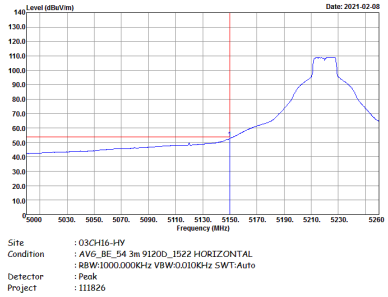
WIFI 802.11a (Band Edge @ 3m)

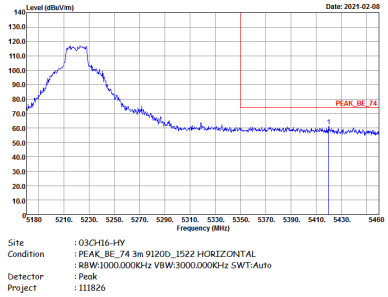
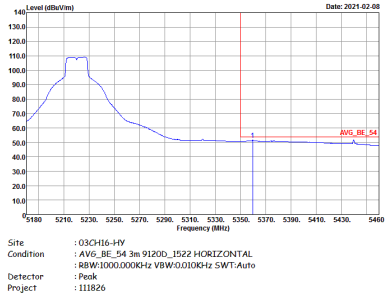
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

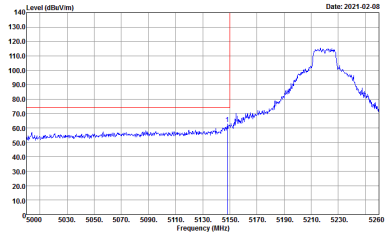
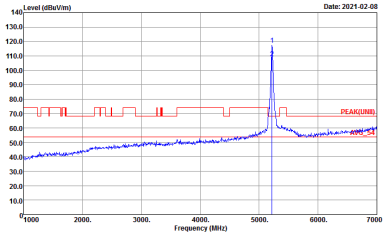
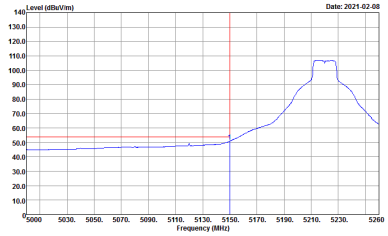
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

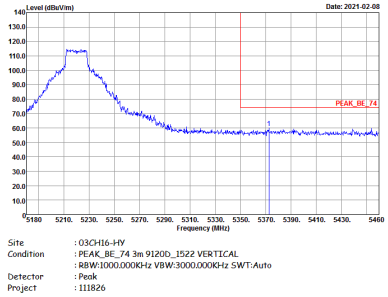
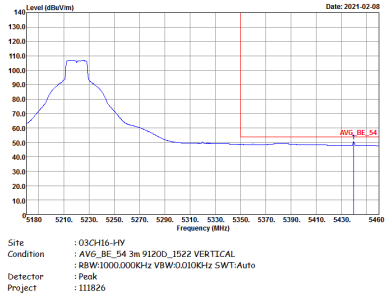
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

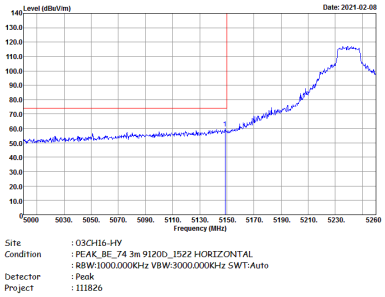
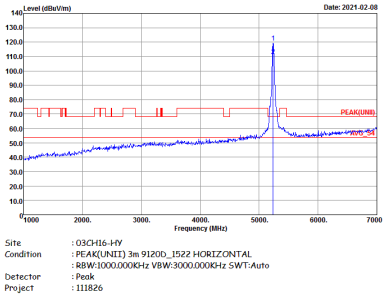
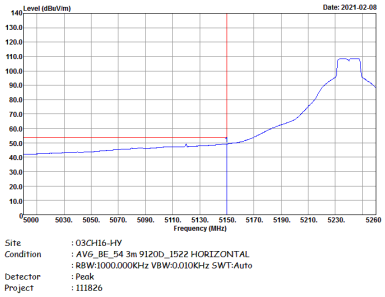
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

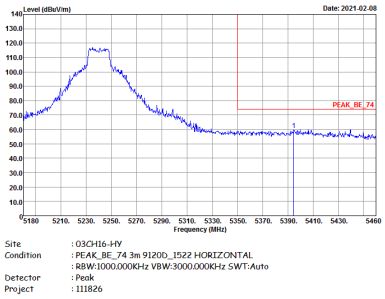
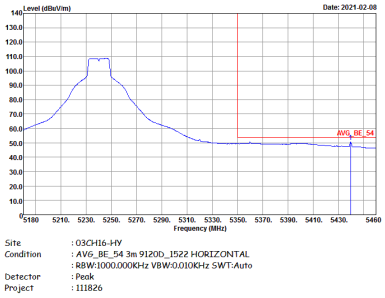
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

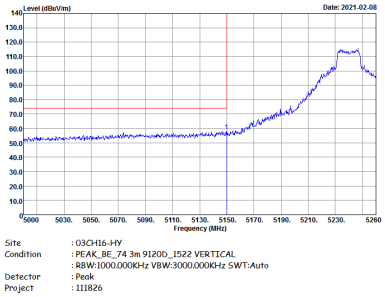
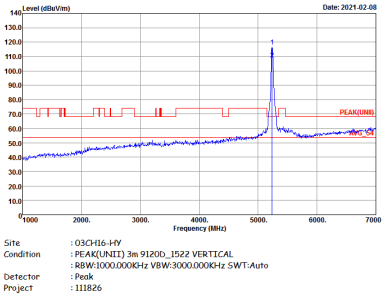
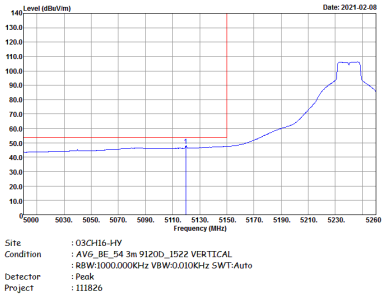
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

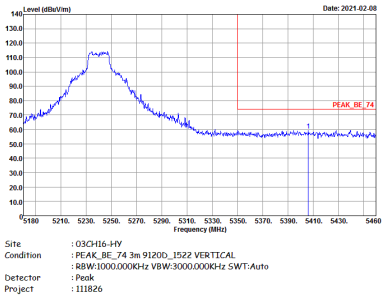
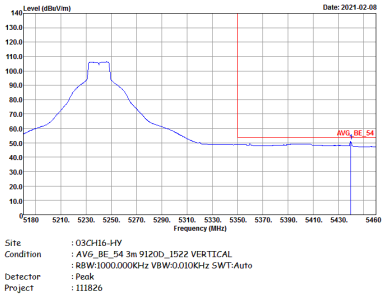
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 111826	Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

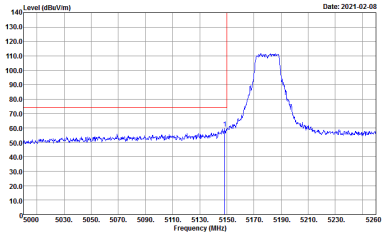
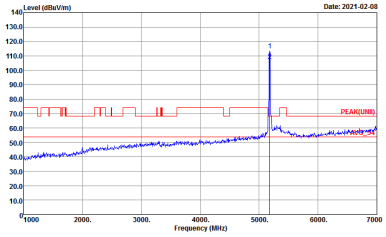
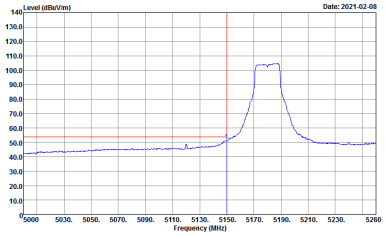
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

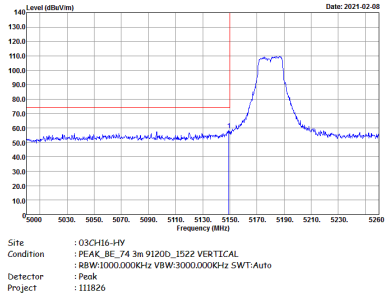
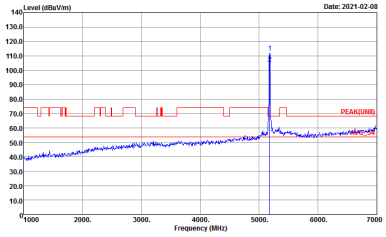
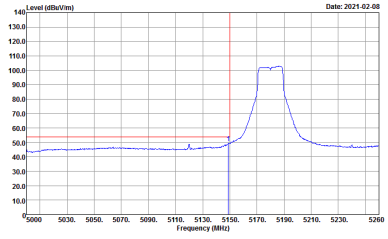
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

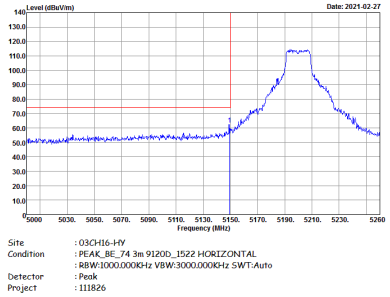
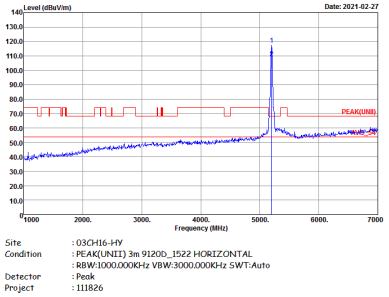
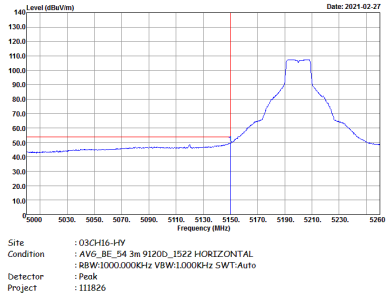
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

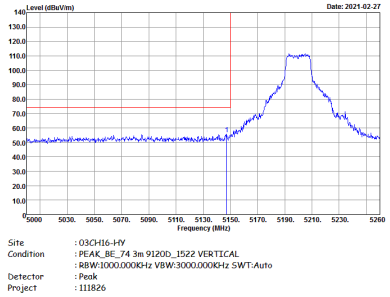
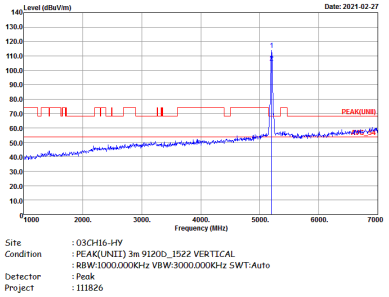
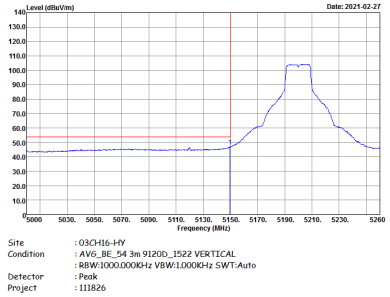
Band 1 5150~5250MHz

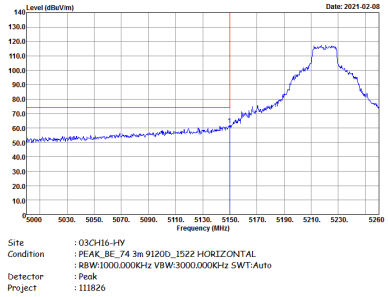
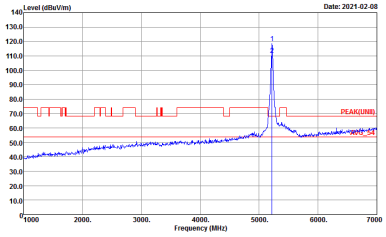
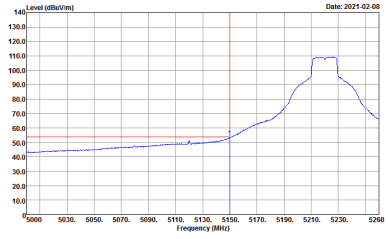
WIFI 802.11n HT20 (Band Edge @ 3m)

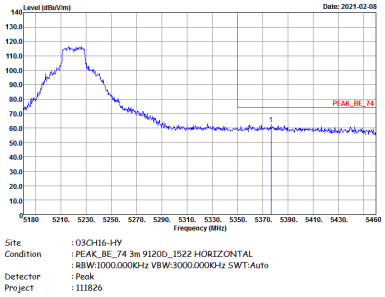
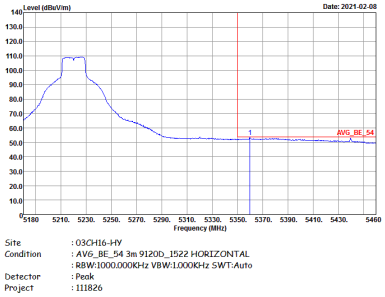
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

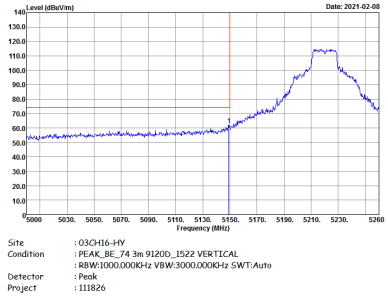
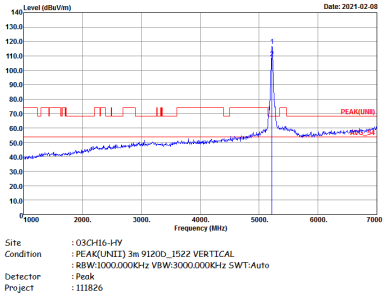
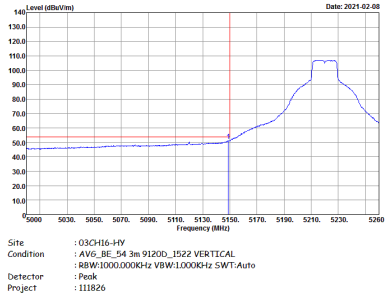
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

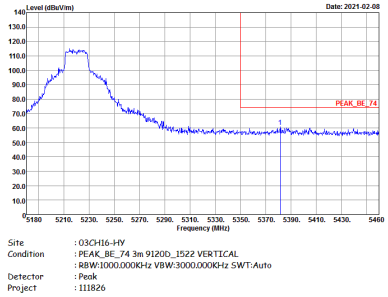
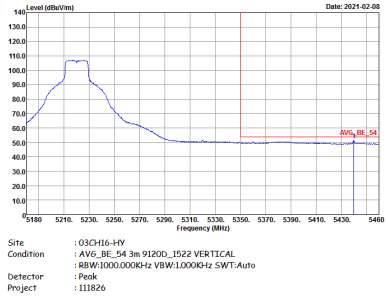
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

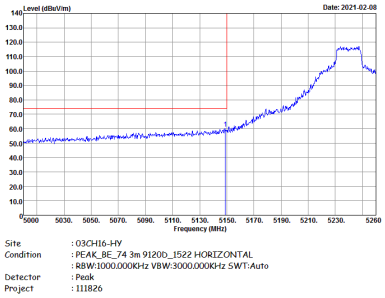
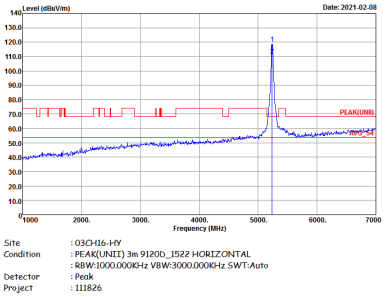
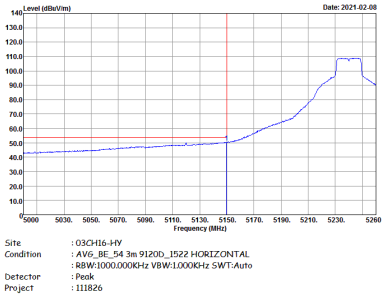
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

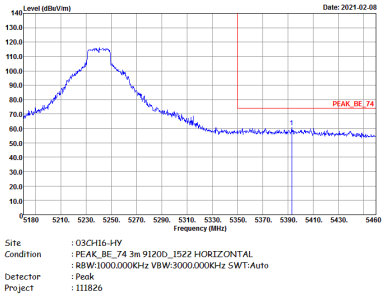
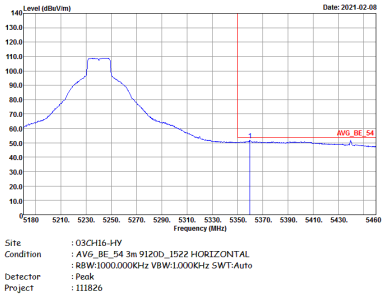
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

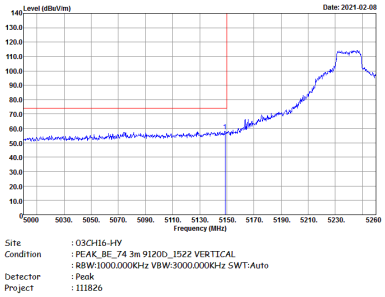
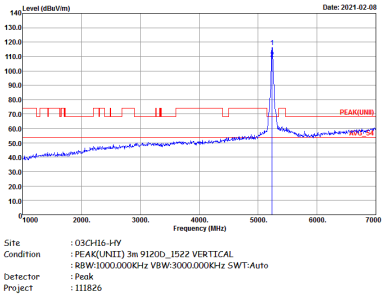
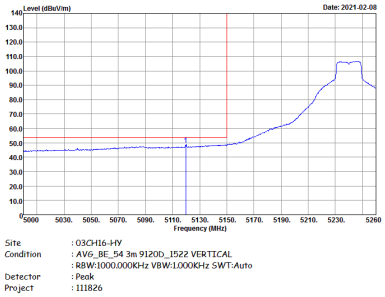
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

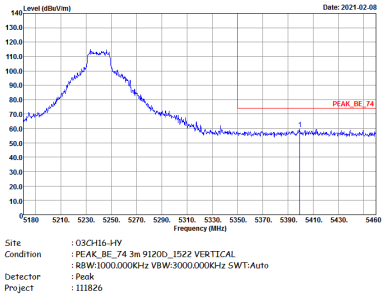
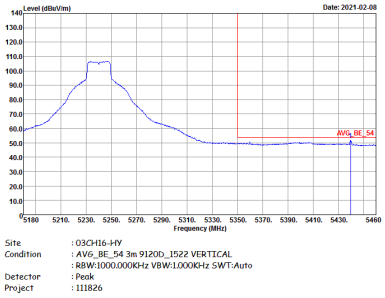
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

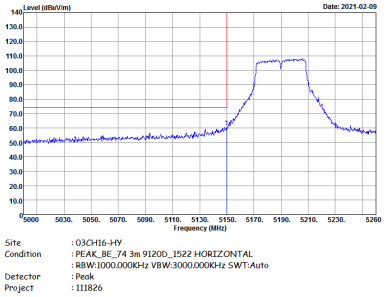
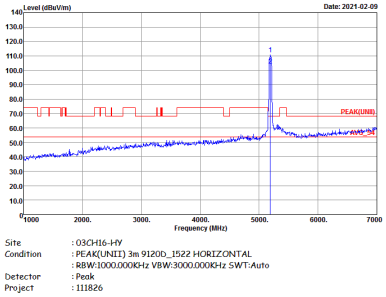
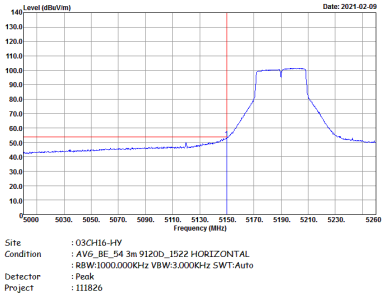
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

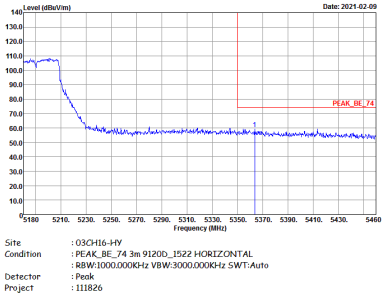
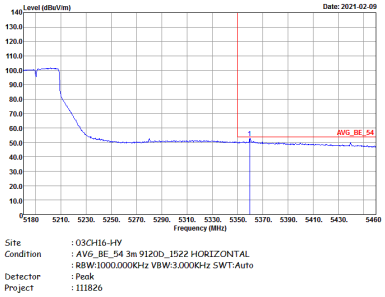
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

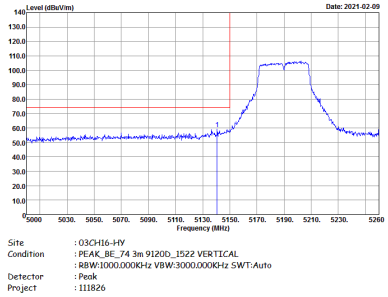
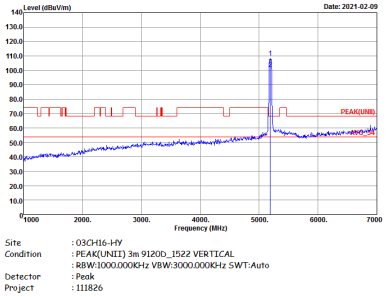
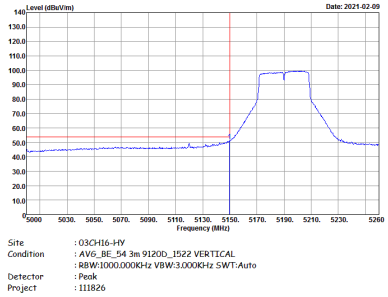
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

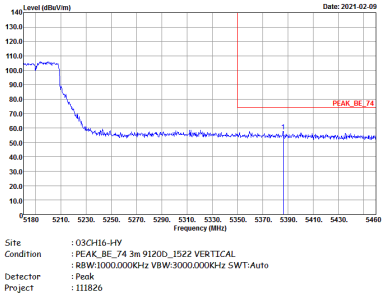
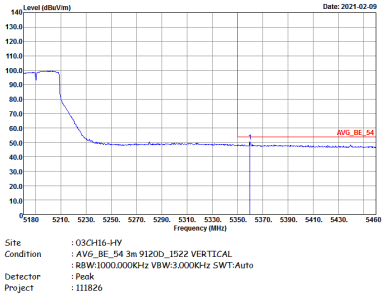
Band 1 5150~5250MHz

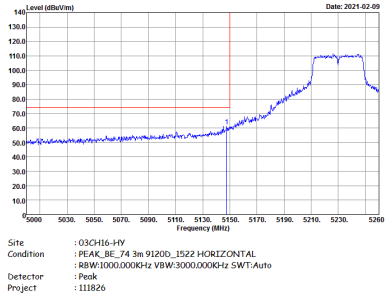
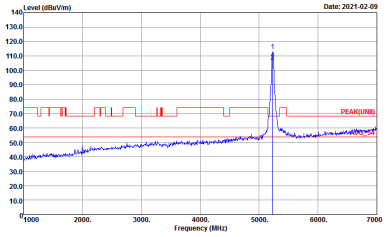
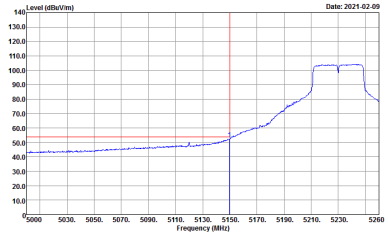
WIFI 802.11n HT40 (Band Edge @ 3m)

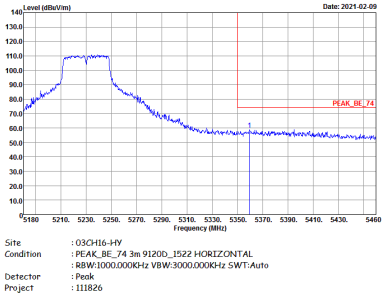
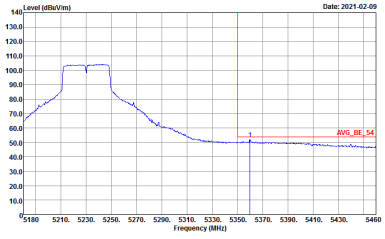
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

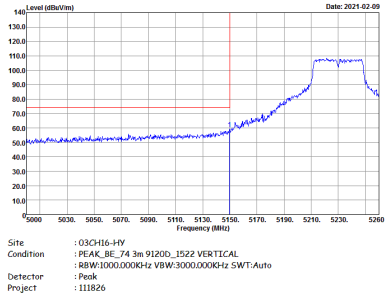
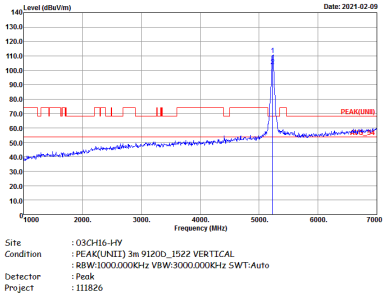
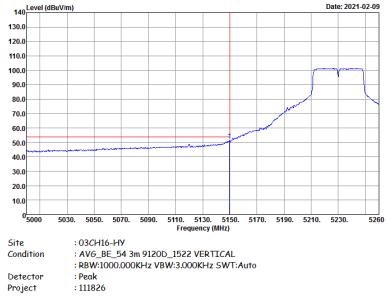
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

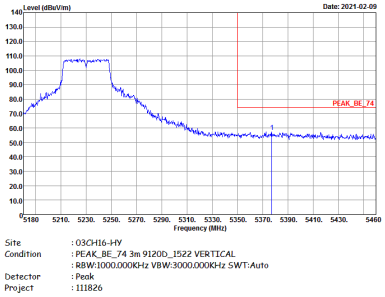
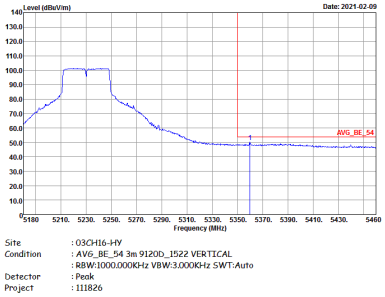
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

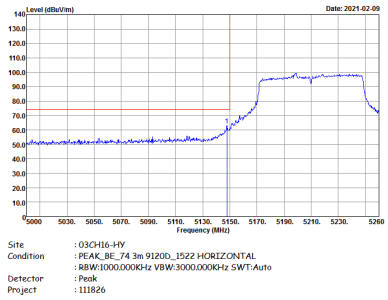
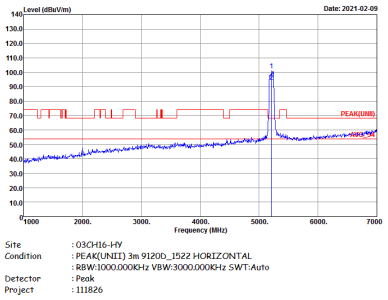
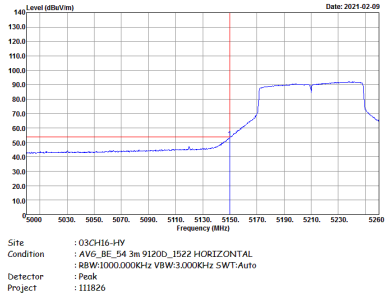
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

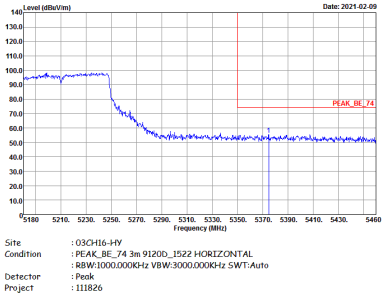
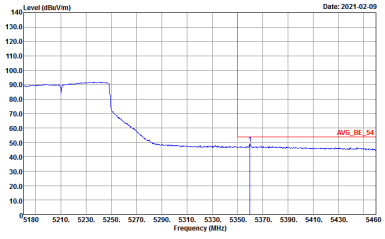
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

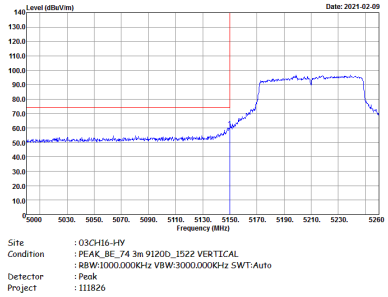
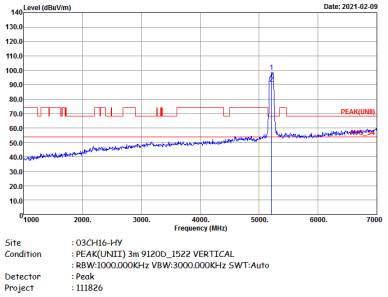
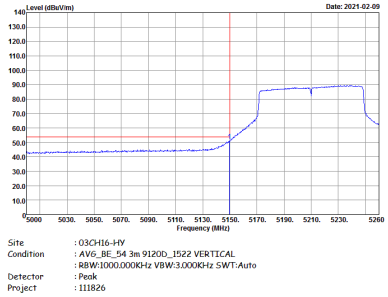
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

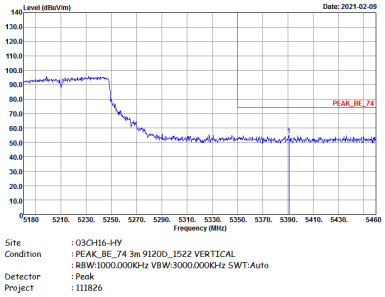
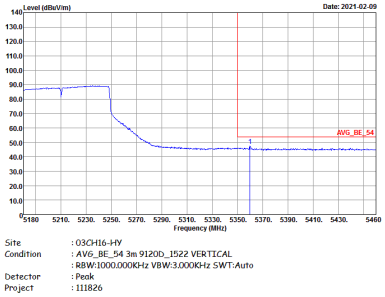
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

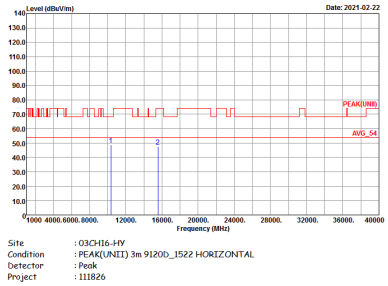
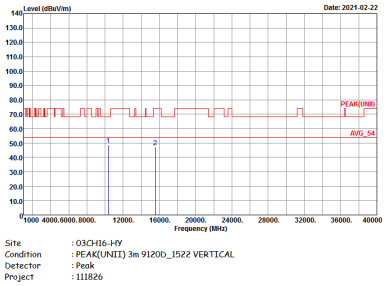
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 111826	Left blank

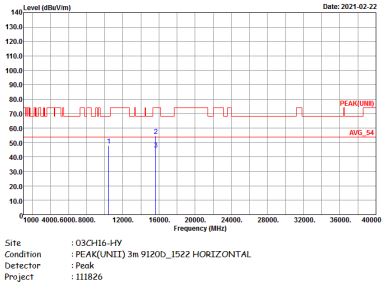
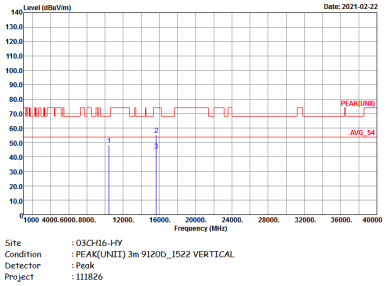
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

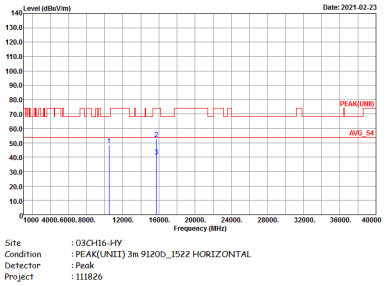
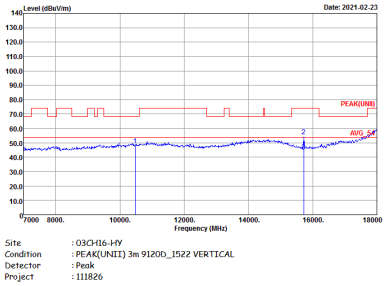
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

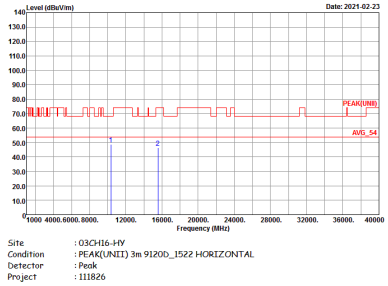
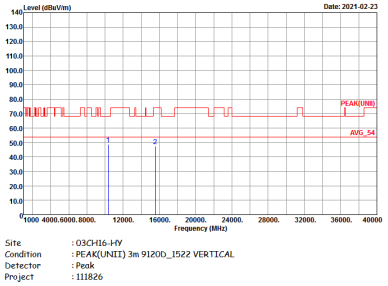
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

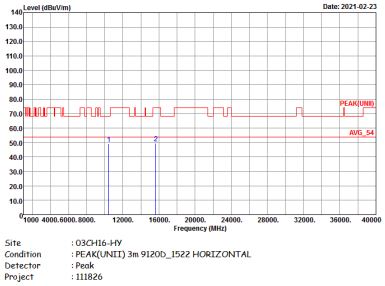
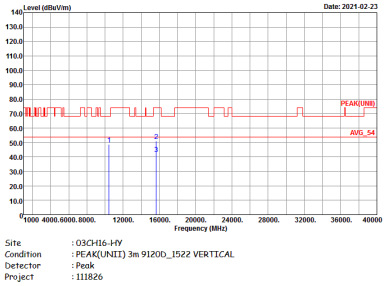
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

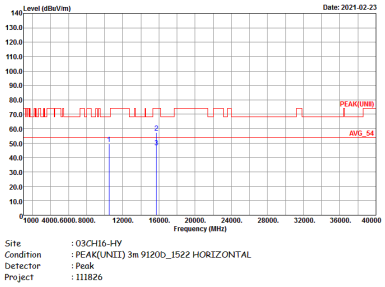
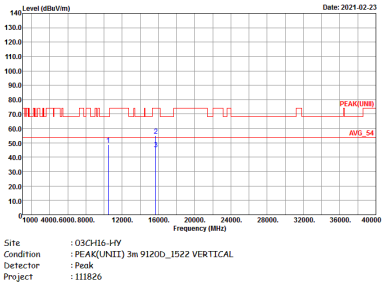
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

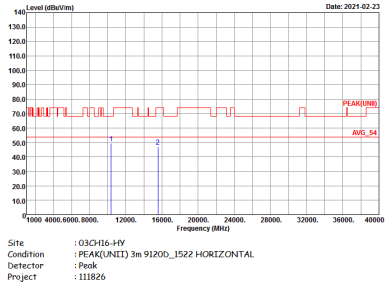
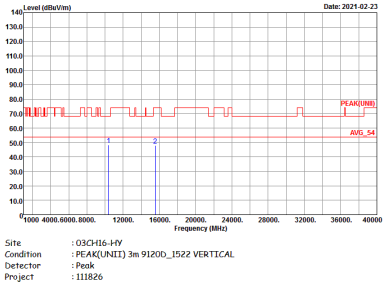
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

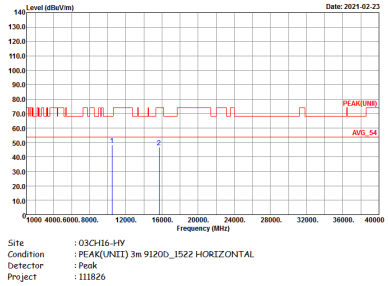
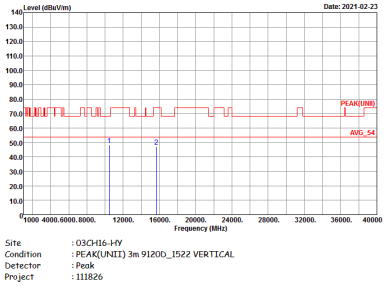
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

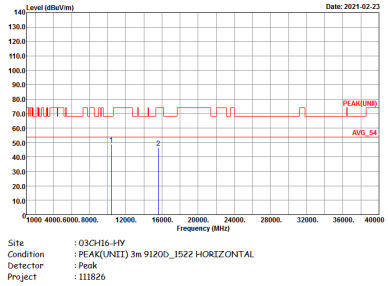
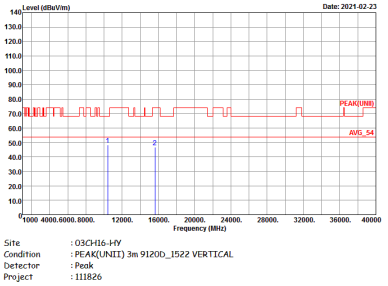
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 111826	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 111826

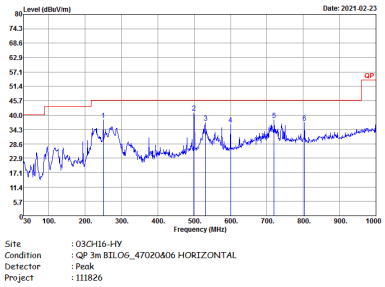
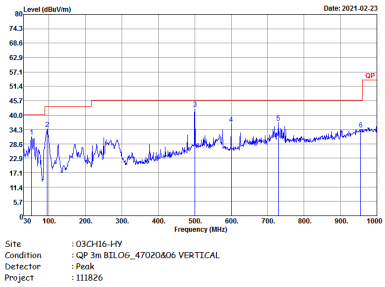
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

Emission below 1GHz

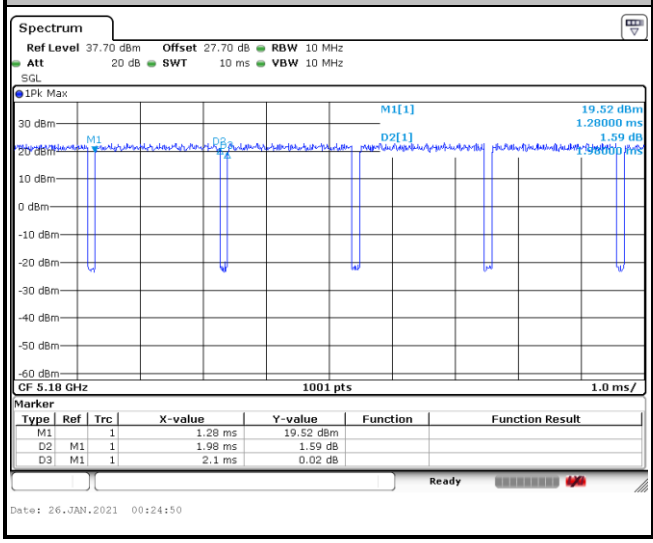
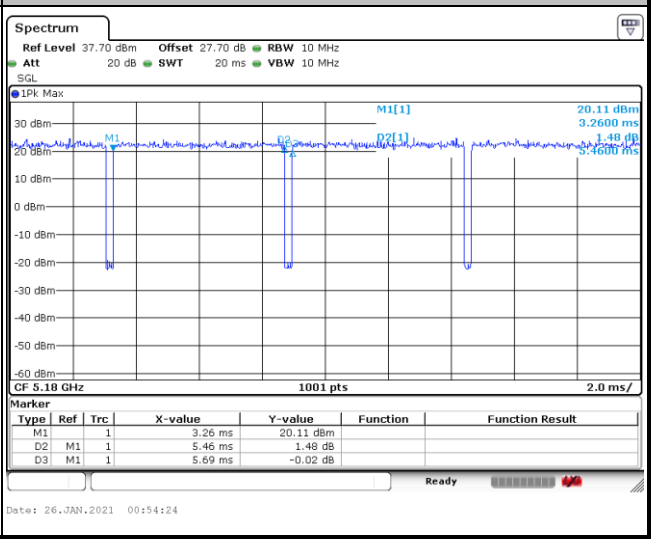
5GHz WIFI 802.11n HT20 (LF)

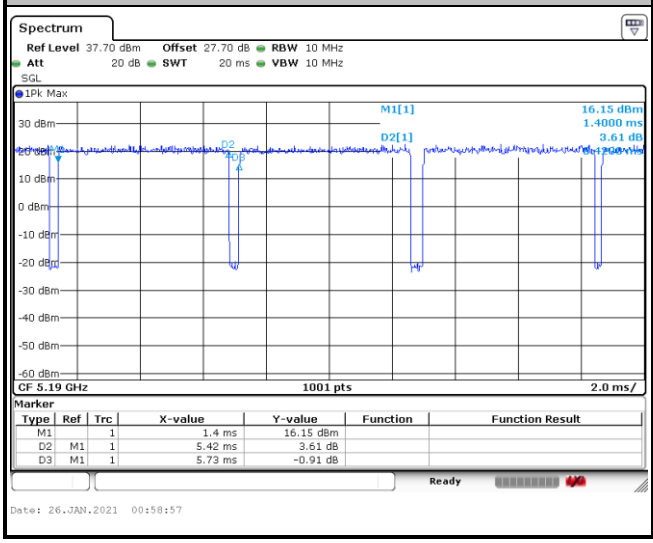
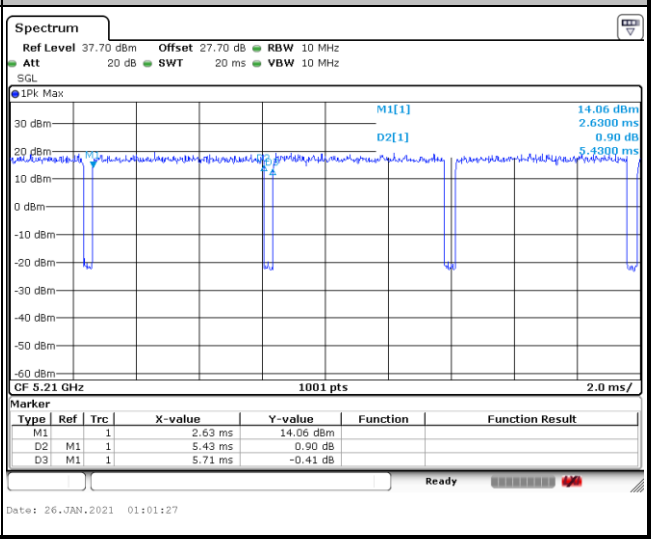
WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

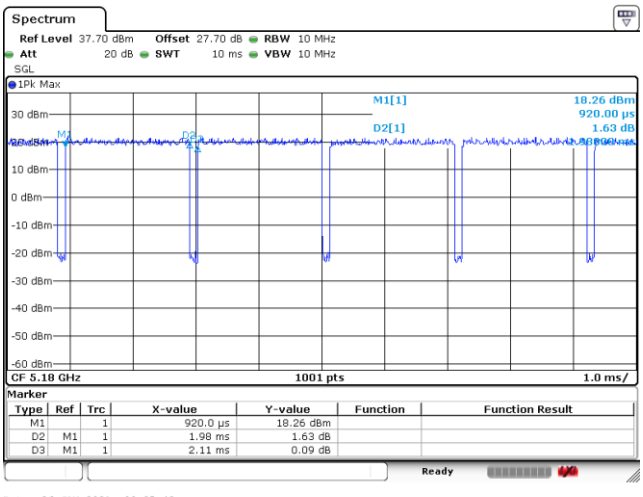
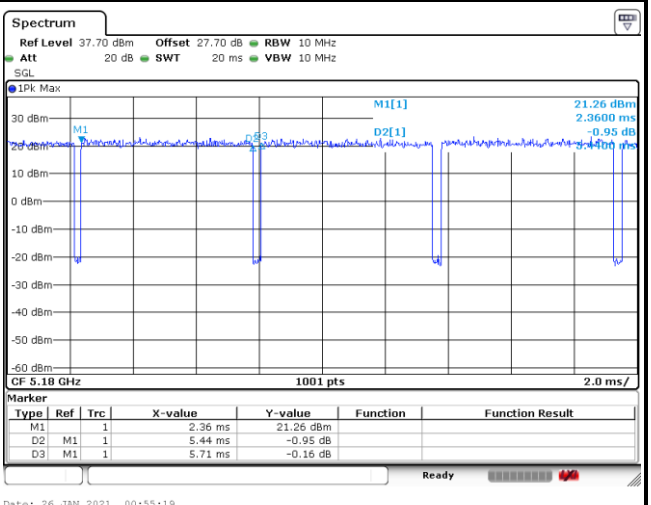
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+3	802.11a for Ant. 1	94.29	1980	0.51	1kHz	0.26
1+3	802.11a for Ant. 3	93.84	1980	0.51	1kHz	0.28
1+3	5GHz 802.11ax HE20 Full RU for Ant. 1	95.96	5460	0.18	300Hz	0.18
1+3	5GHz 802.11ax HE20 Full RU for Ant. 3	95.27	5440	0.18	300Hz	0.21
1+3	5GHz 802.11ax HE40 Full RU for Ant. 1	94.59	5420	0.18	300Hz	0.24
1+3	5GHz 802.11ax HE40 Full RU for Ant. 3	93.49	5460	0.18	300Hz	0.29
1+3	5GHz 802.11ax HE80 Full RU for Ant. 1	95.10	5430	0.18	300Hz	0.22
1+3	5GHz 802.11ax HE80 Full RU for Ant. 3	95.79	5460	0.18	300Hz	0.19
2	802.11a	94.86	2030	0.49	1kHz	0.23
2	5GHz 802.11n HT20	94.97	1890	0.53	1kHz	0.22
2	5GHz 802.11n HT40	95.88	930	1.08	3kHz	0.18
2	5GHz 802.11ac VHT80	91.94	456	2.19	3kHz	0.36

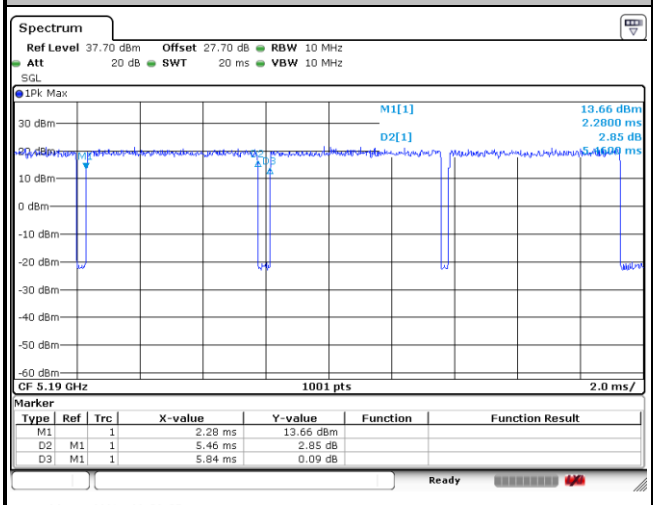
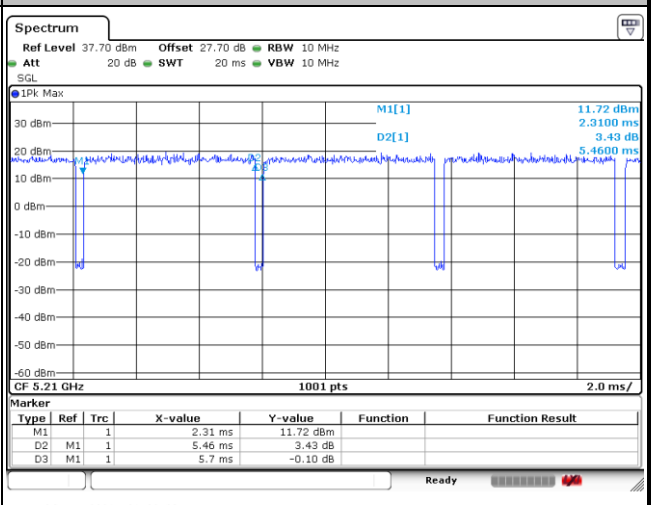
MIMO <Ant. 1>

802.11a	802.11ax HE20 Full RU
	

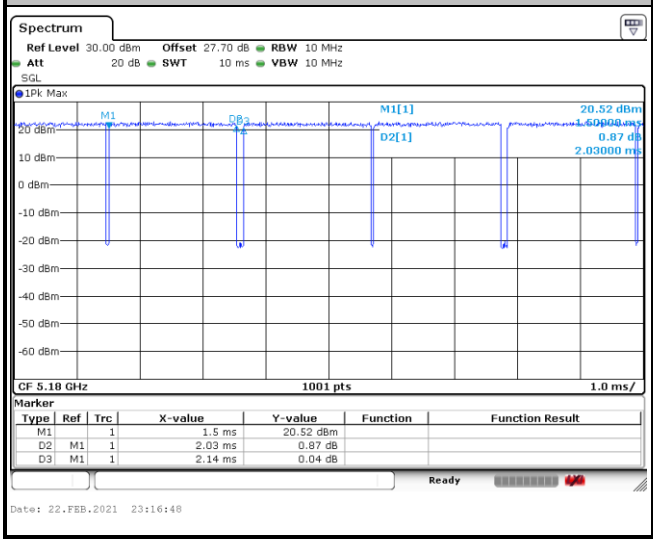
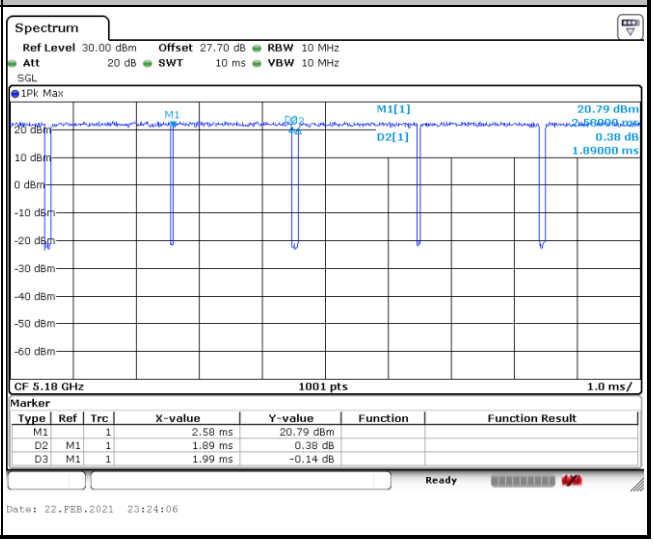
802.11ax HE40 Full RU	802.11ax HE80 Full RU
	

MIMO <Ant. 3>

802.11a	802.11ax HE20 Full RU
	

802.11ax HE40 Full RU	802.11ax HE80 Full RU
	

<Ant. 2>

802.11a	802.11n HT20
	

802.11n HT40	802.11ac VHT80