FCC RADIO TEST REPORT

FCC ID	:	**2AEUPBHAFL031**
Equipment	:	**Floodlight Cam Wired Pro**
Brand Name	:	**Ring**
Model Name	:	**5B28S4**
Applicant	:	**Ring LLC** **1523 26th St Santa Monica, CA 90404 USA**
Manufacturer	:	**Ring LLC** **1523 26th St Santa Monica, CA 90404 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 09, 2021 and testing was started from Feb. 25, 2021 and completed on Mar. 16, 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
FR120337C	01	Initial issue of report	Mar. 30, 2021
FR120337C	02	Revise EUT information	May 11, 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 3.14 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 9.11 dB at 0.825 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: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, LoRa and 24G Radar.

Product Specification subjective to this standard	
Antenna Type	WLAN: <Ant. 1>: FPC Antenna <Ant. 2>: FPC Antenna Bluetooth-LE: FPC Antenna LoRa: PCB Antenna 24GHz Radar: Patch Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 5.42 Ant. 2: 4.69
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 5.60 Ant. 2: 5.00
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 5.04 Ant. 2: 4.91

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, DFS02-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.**
	03CH13-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC designation No.: TW1190 and TW3786

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 three orthogonal panels, X, Y, Z. The worst cases (Y plane) 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		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

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

MIMO Mode

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

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

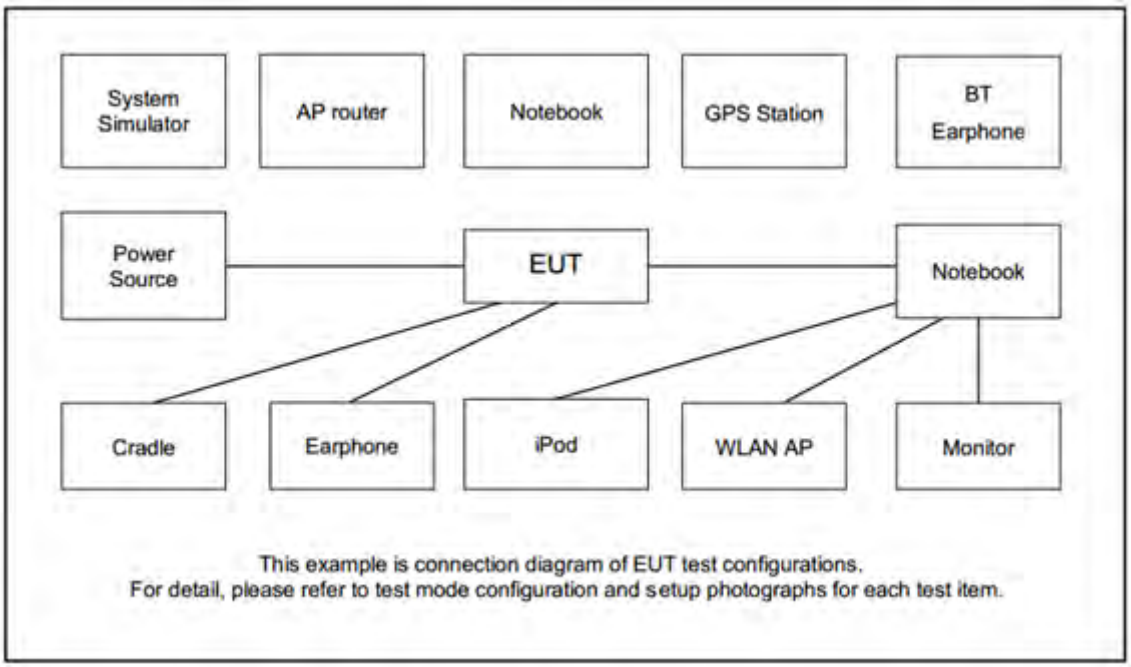
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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 EUT Operation Test Setup

The RF test items, utility "ComplianceTool V1.0.0.87" 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.

2.5 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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

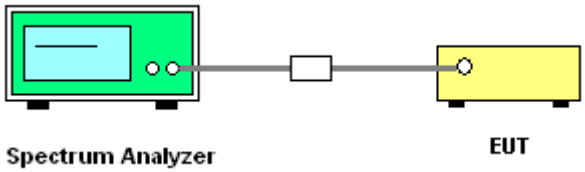
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

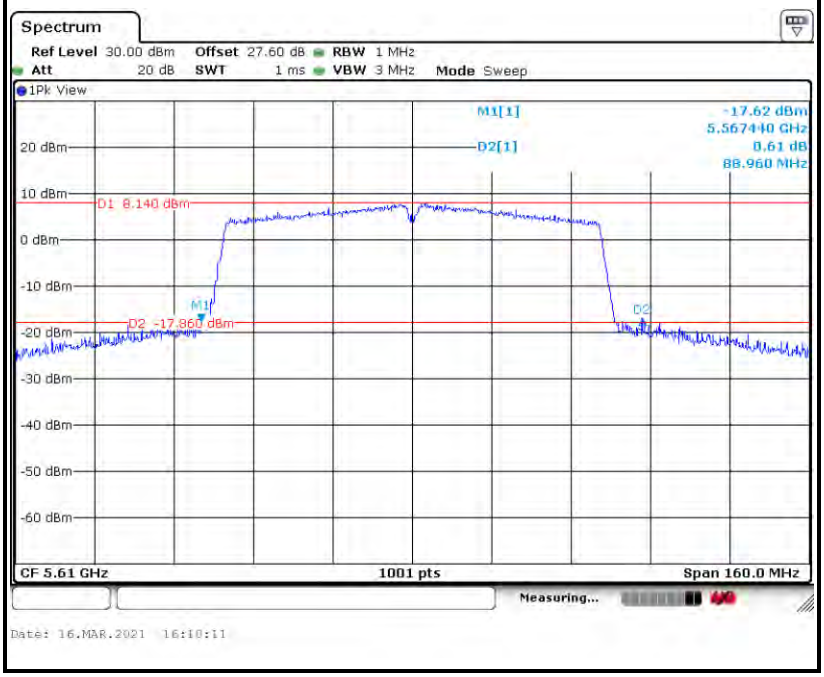
3.1.4 Test Setup



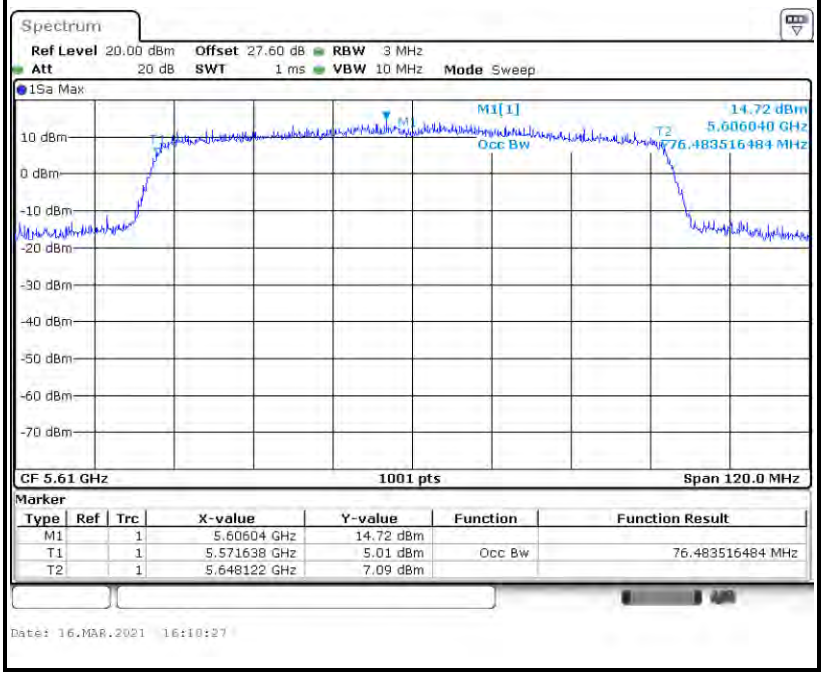
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

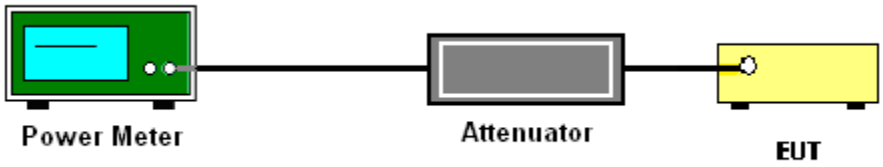
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

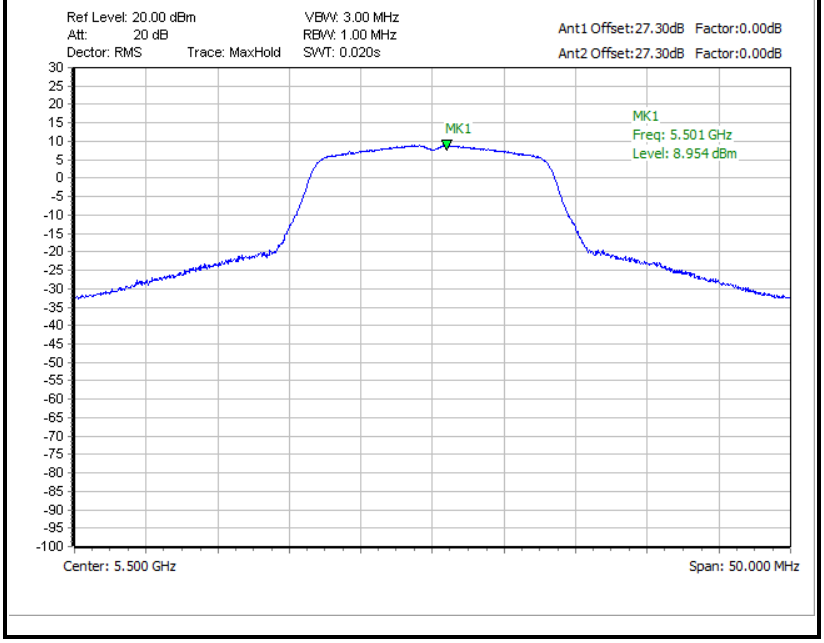
   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

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.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/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

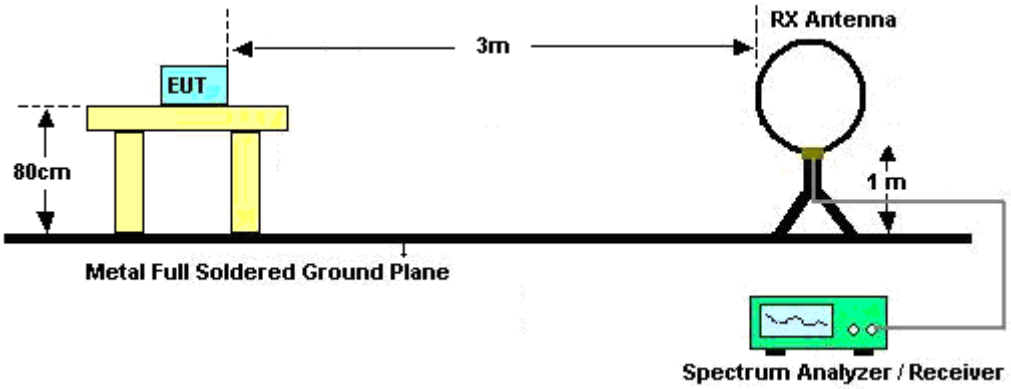
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

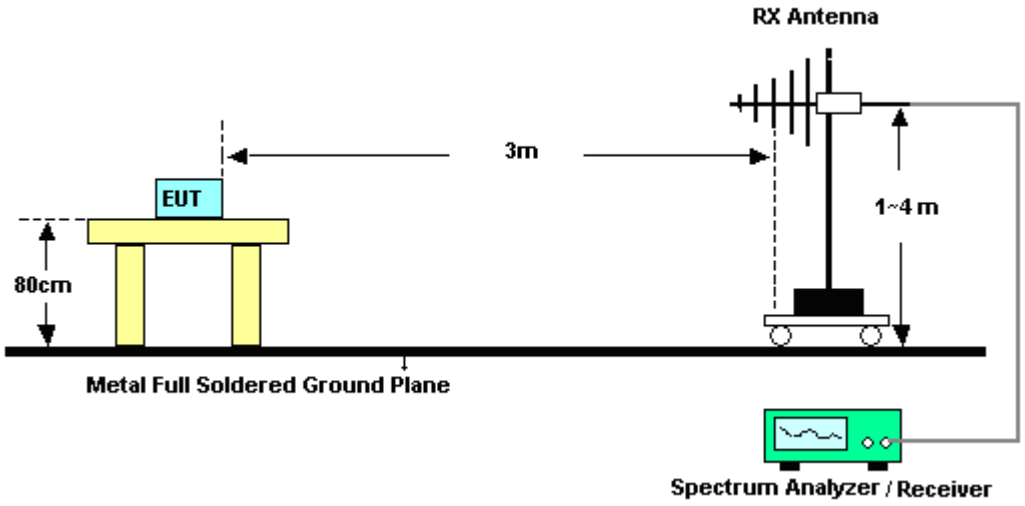
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

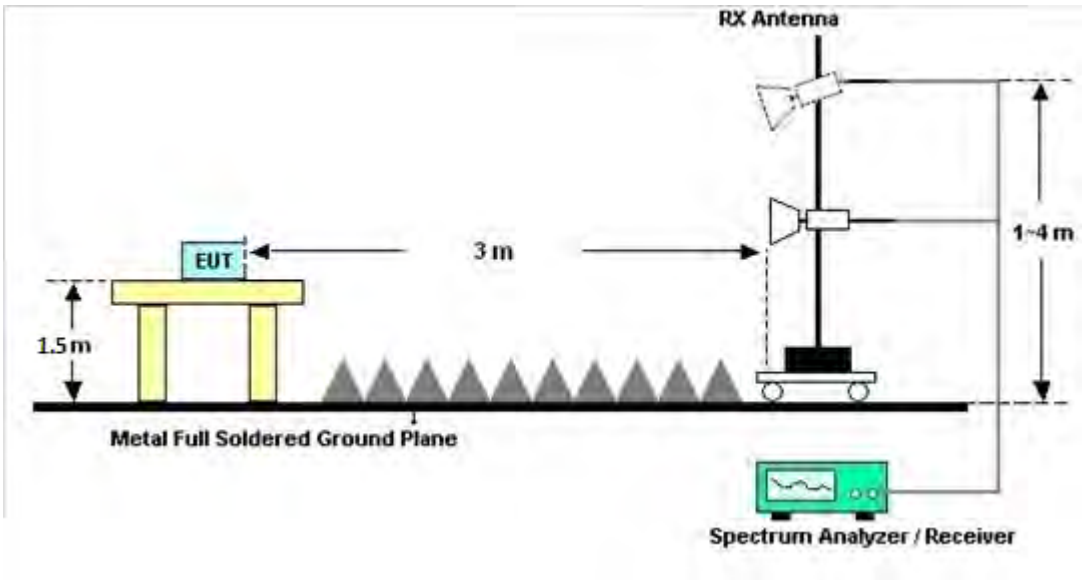
For radiated emissions below 30MHz



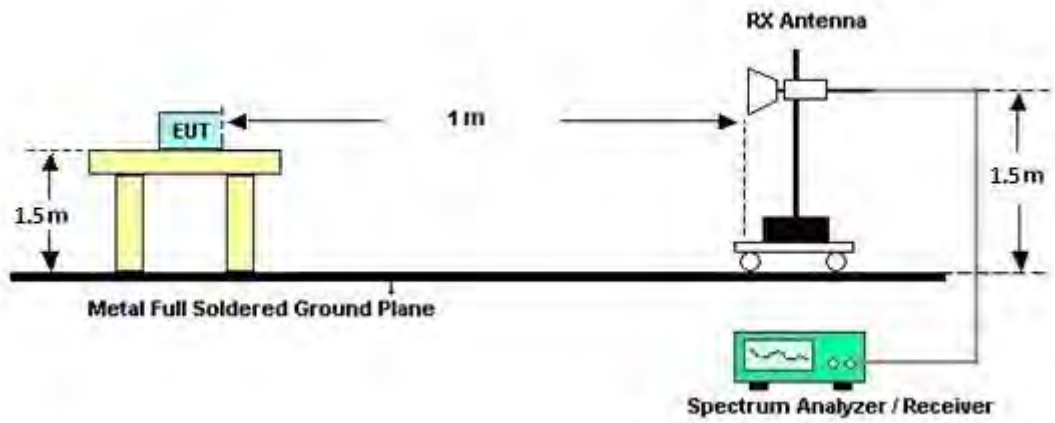
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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.

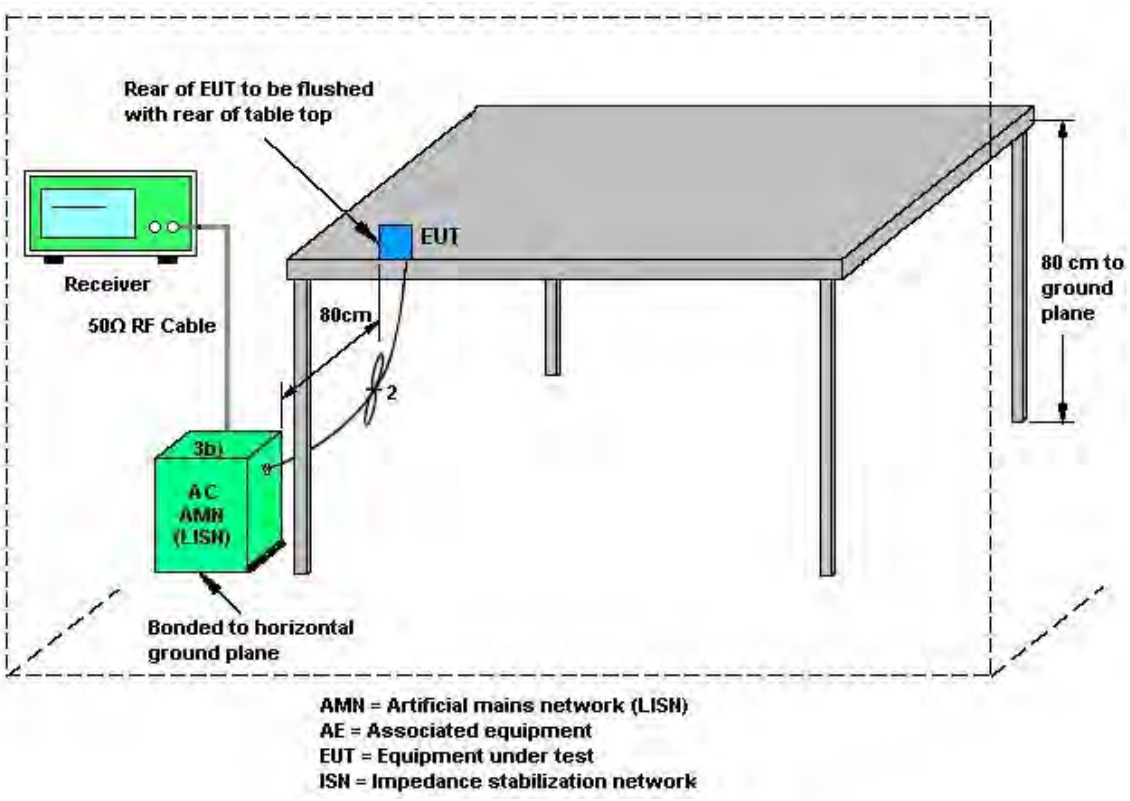
3.5.2 Measuring Instruments

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

EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

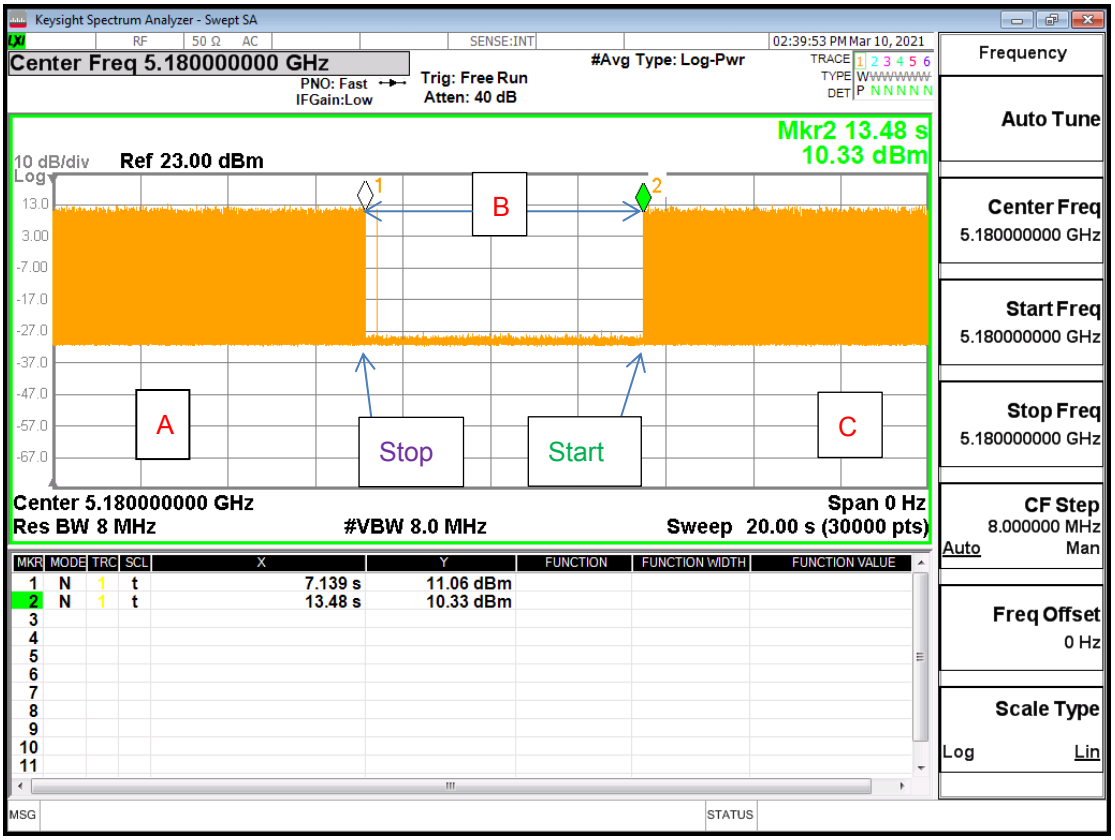
B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz



Note : The control / signalling information during the period B is precluded.

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. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	5.42	4.69	5.42	8.07	0.00	2.07
Band II	5.60	5.00	5.60	8.32	0.00	2.32
Band III	5.04	4.91	5.04	7.99	0.00	1.99

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

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

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 16, 2020	Feb. 25, 2021~ Mar. 08, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Feb. 25, 2021~ Mar. 08, 2021	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	May 20, 2020	Feb. 25, 2021~ Mar. 08, 2021	May 19, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Feb. 25, 2021~ Mar. 08, 2021	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 28, 2020	Feb. 25, 2021~ Mar. 08, 2021	Oct. 27, 2021	Radiation (03CH13-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Feb. 25, 2021~ Mar. 08, 2021	Jan. 30, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 20, 2020	Feb. 25, 2021~ Mar. 08, 2021	Mar. 19, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 25, 2021~ Mar. 08, 2021	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 25, 2021~ Mar. 08, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 25, 2021~ Mar. 08, 2021	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-000992	N/A	N/A	Feb. 25, 2021~ Mar. 08, 2021	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 11, 2020	Feb. 25, 2021~ Mar. 08, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 10, 2021	Feb. 25, 2021~ Mar. 08, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 10, 2021	Feb. 25, 2021~ Mar. 08, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 22, 2021	Feb. 25, 2021~ Mar. 08, 2021	Feb. 21, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Feb. 25, 2021~ Mar. 08, 2021	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 10, 2021	Feb. 25, 2021~ Mar. 08, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Feb. 25, 2021~ Mar. 08, 2021	Mar. 11, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 11, 2020	Feb. 25, 2021~ Mar. 08, 2021	Dec. 10, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60SS	SN3	1.2GHz High Pass Filter	Jul. 02, 2020	Feb. 25, 2021~ Mar. 08, 2021	Jul. 01, 2021	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP190075	N/A	Apr. 23, 2020	Feb. 25, 2021~ Mar. 08, 2021	Apr. 22, 2021	Radiation (03CH13-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	Mar. 10, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Mar. 10, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Mar. 10, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Mar. 10, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 10, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Mar. 10, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	N/A	Mar. 10, 2021	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Mar. 04, 2021~ Mar. 16, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 16, 2020	Mar. 04, 2021~ Mar. 16, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2021	Mar. 04, 2021~ Mar. 16, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW191204	N/A	Jan. 12, 2021	Mar. 04, 2021~ Mar. 16, 2021	Jan. 11, 2022	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 27, 2020	Mar. 10, 2021	Aug. 26, 2021	Conducted (DFS02-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))	4.8

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Eason huang	Temperature:	21~25	℃
Test Date:	2021/3/4~2021/3/16	Relative Humidity:	51~54	%

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 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	16.93	16.68	22.85	21.15	-		22.22			
11a	6Mbps	2	44	5220	16.88	16.78	22.55	21.25	-		22.25			
11a	6Mbps	2	48	5240	16.83	16.68	23.40	21.05	-		22.22			
HT20	MCS0	2	36	5180	17.78	17.68	21.55	21.25	-		22.48			
HT20	MCS0	2	44	5220	17.83	17.68	25.20	21.35	-		22.48			
HT20	MCS0	2	48	5240	17.88	17.73	27.80	21.45	-		22.49			
HT40	MCS0	2	38	5190	36.46	36.46	41.67	41.49	-		23.01			
HT40	MCS0	2	46	5230	36.66	36.56	42.03	41.49	-		23.01			
VHT80	MCS0	2	42	5210	76.24	76.12	81.44	80.64	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	15.80	16.50	19.17	24.00		5.42		Pass
11a	6Mbps	2	44	5220	15.80	16.10	18.96	24.00		5.42		Pass
11a	6Mbps	2	48	5240	15.60	16.00	18.81	24.00		5.42		Pass
HT20	MCS0	2	36	5180	15.90	16.40	19.17	24.00		5.42		Pass
HT20	MCS0	2	44	5220	15.90	16.90	19.44	24.00		5.42		Pass
HT20	MCS0	2	48	5240	16.20	16.40	19.31	24.00		5.42		Pass
HT40	MCS0	2	38	5190	14.30	15.00	17.67	24.00		5.42		Pass
HT40	MCS0	2	46	5230	16.10	16.30	19.21	24.00		5.42		Pass
VHT20	MCS0	2	36	5180	15.80	16.30	19.07	24.00		5.42		Pass
VHT20	MCS0	2	44	5220	15.80	16.80	19.34	24.00		5.42		Pass
VHT20	MCS0	2	48	5240	16.10	16.30	19.21	24.00		5.42		Pass
VHT40	MCS0	2	38	5190	14.20	14.90	17.57	24.00		5.42		Pass
VHT40	MCS0	2	46	5230	16.00	16.20	19.11	24.00		5.42		Pass
VHT80	MCS0	2	42	5210	10.10	10.50	13.31	24.00		5.42		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180			8.56	8.93		8.07			Pass
11a	6Mbps	2	44	5220			8.58	8.93		8.07			Pass
11a	6Mbps	2	48	5240			8.47	8.93		8.07			Pass
HT20	MCS0	2	36	5180			8.61	8.93		8.07			Pass
HT20	MCS0	2	44	5220			8.92	8.93		8.07			Pass
HT20	MCS0	2	48	5240			8.64	8.93		8.07			Pass
HT40	MCS0	2	38	5190			4.23	8.93		8.07			Pass
HT40	MCS0	2	46	5230			5.86	8.93		8.07			Pass
VHT80	MCS0	2	42	5210			-2.91	8.93		8.07			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II 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)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.83	16.78	23.50	21.10	23.25		29.25		23.98		
11a	6Mbps	2	60	5300	16.98	16.73	24.30	21.20	23.24		29.24		23.98		
11a	6Mbps	2	64	5320	16.93	16.73	27.95	22.95	23.24		29.24		23.98		
HT20	MCS0	2	52	5260	17.78	17.68	26.25	21.40	23.48		29.48		23.98		
HT20	MCS0	2	60	5300	17.73	17.68	25.50	21.20	23.48		29.48		23.98		
HT20	MCS0	2	64	5320	17.83	17.68	27.35	21.30	23.48		29.48		23.98		
HT40	MCS0	2	54	5270	36.56	36.46	42.21	41.67	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.46	36.36	42.03	41.22	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.12	76.12	81.76	80.80	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	15.10	16.10	18.64	23.98		5.60		26.99	Pass
11a	6Mbps	2	60	5300	15.80	16.20	19.01	23.98		5.60		26.99	Pass
11a	6Mbps	2	64	5320	15.80	16.30	19.07	23.98		5.60		26.99	Pass
HT20	MCS0	2	52	5260	15.60	16.40	19.03	23.98		5.60		26.99	Pass
HT20	MCS0	2	60	5300	15.70	16.10	18.91	23.98		5.60		26.99	Pass
HT20	MCS0	2	64	5320	15.80	16.00	18.91	23.98		5.60		26.99	Pass
HT40	MCS0	2	54	5270	15.50	16.40	18.98	23.98		5.60		26.99	Pass
HT40	MCS0	2	62	5310	15.10	15.50	18.31	23.98		5.60		26.99	Pass
VHT20	MCS0	2	52	5260	15.50	16.30	18.93	23.98		5.60		26.99	Pass
VHT20	MCS0	2	60	5300	15.60	16.00	18.81	23.98		5.60		26.99	Pass
VHT20	MCS0	2	64	5320	15.70	15.90	18.81	23.98		5.60		26.99	Pass
VHT40	MCS0	2	54	5270	15.40	16.30	18.88	23.98		5.60		26.99	Pass
VHT40	MCS0	2	62	5310	15.00	15.40	18.21	23.98		5.60		26.99	Pass
VHT80	MCS0	2	58	5290	11.40	11.90	14.67	23.98		5.60		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260			8.44	8.68		8.32			Pass
11a	6Mbps	2	60	5300			8.56	8.68		8.32			Pass
11a	6Mbps	2	64	5320			8.66	8.68		8.32			Pass
HT20	MCS0	2	52	5260			8.45	8.68		8.32			Pass
HT20	MCS0	2	60	5300			8.46	8.68		8.32			Pass
HT20	MCS0	2	64	5320			8.33	8.68		8.32			Pass
HT40	MCS0	2	54	5270			5.50	8.68		8.32			Pass
HT40	MCS0	2	62	5310			4.86	8.68		8.32			Pass
VHT80	MCS0	2	58	5290			-1.66	8.68		8.32			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	17.08	16.78	28.85	21.30	23.25		29.25		23.98		----	----
11a	6Mbps	2	116	5580	17.13	16.78	29.80	23.85	23.25		29.25		23.98		----	----
11a	6Mbps	2	140	5700	16.78	16.73	21.45	21.10	23.24		29.24		23.98		----	----
HT20	MCS0	2	100	5500	17.98	17.68	28.85	21.50	23.48		29.48		23.98		----	----
HT20	MCS0	2	116	5580	17.93	17.68	30.25	21.30	23.48		29.48		23.98		----	----
HT20	MCS0	2	140	5700	17.73	17.68	21.45	21.20	23.48		29.48		23.98		----	----
HT40	MCS0	2	102	5510	36.36	36.36	41.22	41.22	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.86	36.56	59.04	41.67	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.76	36.66	59.85	41.94	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.24	76.24	81.28	80.80	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.48	76.24	88.96	81.12	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	13.54	13.39	18.20	15.55	22.27		28.27		22.92		3.15	3.15
HT20	MCS0	2	144	5720	13.99	13.89	17.55	15.60	22.43		28.43		22.93		3.75	3.75
HT40	MCS0	2	142	5710	33.48	33.28	42.36	35.79	23.98		30.00		23.98		3.09	3.09
VHT80	MCS0	2	138	5690	73.24	73.24	80.60	75.32	23.98		30.00		23.98		3.082	3.082

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	16.20	16.30	19.26	23.98		5.04		26.99	Pass
11a	6Mbps	2	116	5580	16.00	16.20	19.11	23.98		5.04		26.99	Pass
11a	6Mbps	2	140	5700	14.20	14.70	17.47	23.98		5.04		26.99	Pass
HT20	MCS0	2	100	5500	16.30	16.30	19.31	23.98		5.04		26.99	Pass
HT20	MCS0	2	116	5580	16.10	16.40	19.26	23.98		5.04		26.99	Pass
HT20	MCS0	2	140	5700	13.50	14.10	16.82	23.98		5.04		26.99	Pass
HT40	MCS0	2	102	5510	14.20	15.00	17.63	23.98		5.04		26.99	Pass
HT40	MCS0	2	110	5550	15.80	16.50	19.17	23.98		5.04		26.99	Pass
HT40	MCS0	2	134	5670	16.40	16.20	19.31	23.98		5.04		26.99	Pass
VHT20	MCS0	2	100	5500	16.20	16.20	19.21	23.98		5.04		26.99	Pass
VHT20	MCS0	2	116	5580	16.00	16.30	19.16	23.98		5.04		26.99	Pass
VHT20	MCS0	2	140	5700	13.40	14.00	16.72	23.98		5.04		26.99	Pass
VHT40	MCS0	2	102	5510	14.10	14.90	17.53	23.98		5.04		26.99	Pass
VHT40	MCS0	2	110	5550	15.70	16.40	19.07	23.98		5.04		26.99	Pass
VHT40	MCS0	2	134	5670	16.30	16.10	19.21	23.98		5.04		26.99	Pass
VHT80	MCS0	2	106	5530	11.70	12.00	14.86	23.98		5.04		26.99	Pass
VHT80	MCS0	2	122	5610	15.50	15.80	18.66	23.98		5.04		26.99	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	15.90	16.00	18.96	22.92		5.04		26.99	Pass
HT20	MCS0	2	144	5720	15.80	15.80	18.81	22.93		5.04		26.99	Pass
HT40	MCS0	2	142	5710	16.00	16.20	19.11	23.98		5.04		26.99	Pass
VHT20	MCS0	2	144	5720	15.70	15.70	18.71	23.98		5.04		26.99	Pass
VHT40	MCS0	2	142	5710	15.90	16.10	19.01	23.98		5.04		26.99	Pass
VHT80	MCS0	2	138	5690	16.00	15.80	18.91	23.98		5.04		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500			8.95	9.01		7.99			Pass
11a	6Mbps	2	116	5580			8.88	9.01		7.99			Pass
11a	6Mbps	2	140	5700			6.95	9.01		7.99			Pass
HT20	MCS0	2	100	5500			8.92	9.01		7.99			Pass
HT20	MCS0	2	116	5580			8.65	9.01		7.99			Pass
HT20	MCS0	2	140	5700			6.40	9.01		7.99			Pass
HT40	MCS0	2	102	5510			4.17	9.01		7.99			Pass
HT40	MCS0	2	110	5550			5.56	9.01		7.99			Pass
HT40	MCS0	2	134	5670			5.93	9.01		7.99			Pass
VHT80	MCS0	2	106	5530			-1.51	9.01		7.99			Pass
VHT80	MCS0	2	122	5610			2.08	9.01		7.99			Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720			8.61	9.01		7.99			Pass
HT20	MCS0	2	144	5720			8.35	9.01		7.99			Pass
HT40	MCS0	2	142	5710			5.51	9.01		7.99			Pass
VHT80	MCS0	2	138	5690			2.22	9.01		7.99			Pass

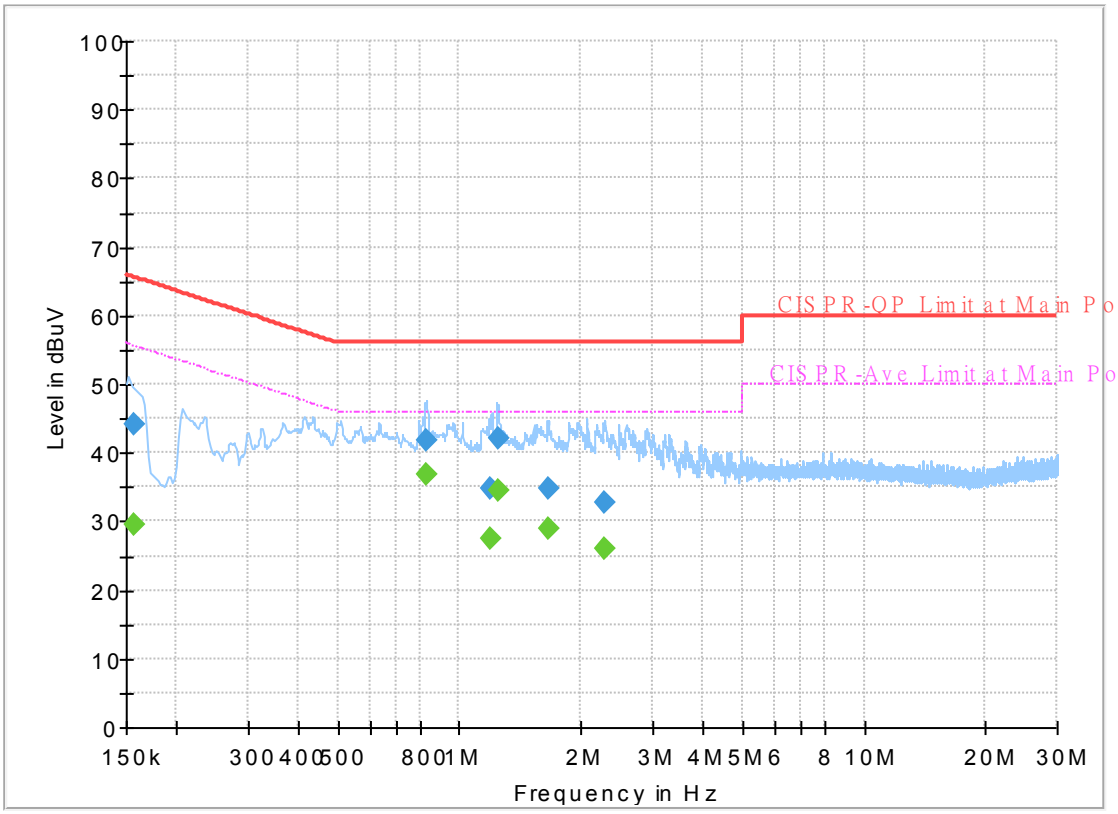
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	120337
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



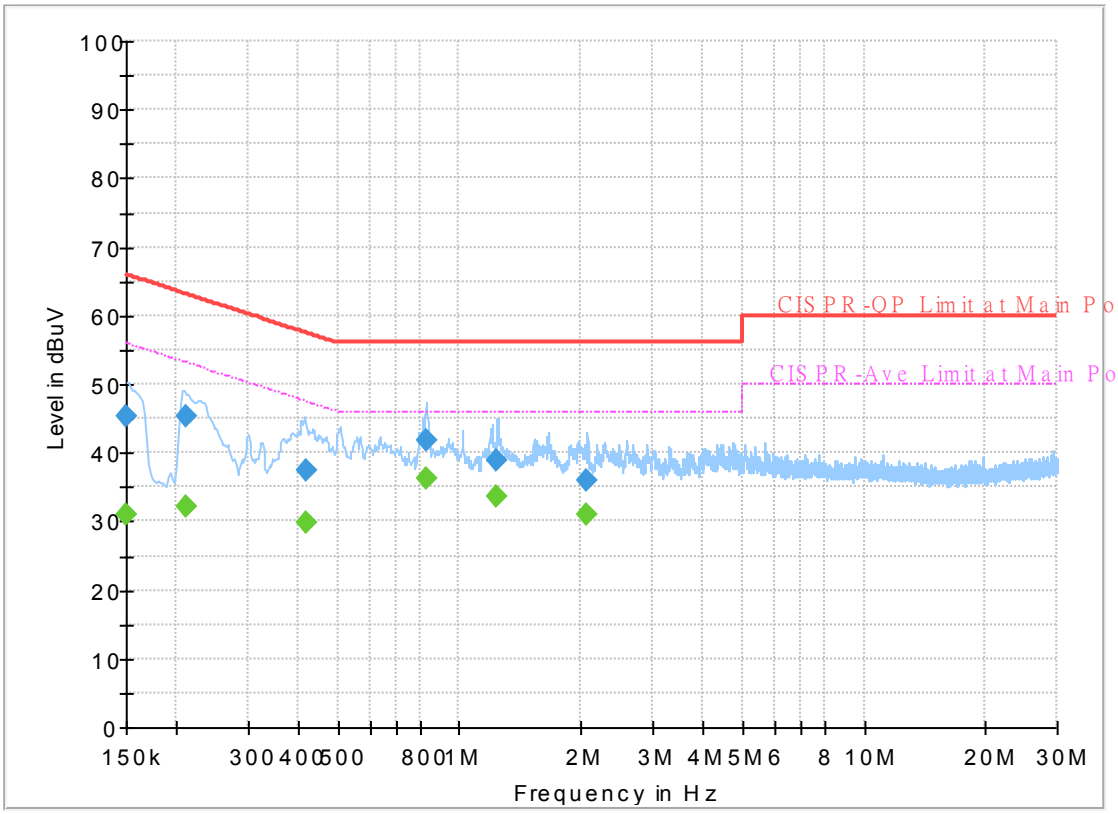
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	29.65	55.63	25.98	L1	OFF	19.7
0.156750	44.01	---	65.63	21.62	L1	OFF	19.7
0.825000	---	36.89	46.00	9.11	L1	OFF	20.2
0.825000	41.74	---	56.00	14.26	L1	OFF	20.2
1.196250	---	27.50	46.00	18.50	L1	OFF	20.3
1.196250	34.78	---	56.00	21.22	L1	OFF	20.3
1.241880	---	34.59	46.00	11.41	L1	OFF	20.3
1.241880	42.02	---	56.00	13.98	L1	OFF	20.3
1.653000	---	28.92	46.00	17.08	L1	OFF	20.2
1.653000	34.71	---	56.00	21.29	L1	OFF	20.2
2.274000	---	26.12	46.00	19.88	L1	OFF	20.2
2.274000	32.83	---	56.00	23.17	L1	OFF	20.2

EUT Information

Report NO :	120337
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)
0.150000	---	30.93	56.00	25.07	N	OFF	19.7
0.150000	45.22	---	66.00	20.78	N	OFF	19.7
0.210750	---	32.04	53.18	21.14	N	OFF	19.7
0.210750	45.36	---	63.18	17.82	N	OFF	19.7
0.420000	---	29.75	47.45	17.70	N	OFF	19.8
0.420000	37.29	---	57.45	20.16	N	OFF	19.8
0.829950	---	36.20	46.00	9.80	N	OFF	20.2
0.829950	41.87	---	56.00	14.13	N	OFF	20.2
1.241250	---	33.56	46.00	12.44	N	OFF	20.3
1.241250	38.99	---	56.00	17.01	N	OFF	20.3
2.068170	---	31.02	46.00	14.98	N	OFF	20.2
2.068170	36.07	---	56.00	19.93	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25℃
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+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	55.53	-18.47	74	44.75	31.91	6.28	27.41	262	228	P	H
		5146.38	45.9	-8.1	54	35.12	31.91	6.28	27.41	262	228	A	H
	*	5180	114.07	-	-	103.41	31.78	6.28	27.4	262	228	P	H
	*	5180	106.74	-	-	96.08	31.78	6.28	27.4	262	228	A	H
													H
		5148.46	62.7	-11.3	74	51.93	31.9	6.28	27.41	304	145	P	V
		5149.5	48.97	-5.03	54	38.2	31.9	6.28	27.41	304	145	A	V
	*	5180	116.25	-	-	105.59	31.78	6.28	27.4	304	145	P	V
	*	5180	108.72	-	-	98.06	31.78	6.28	27.4	304	145	A	V
													V
802.11a CH 44 5220MHz		5094.9	53.02	-20.98	74	42.22	31.97	6.26	27.43	226	235	P	H
		5141.44	43.47	-10.53	54	32.68	31.92	6.28	27.41	226	235	A	H
	*	5220	114.83	-	-	104.38	31.54	6.3	27.39	226	235	P	H
	*	5220	107.24	-	-	96.79	31.54	6.3	27.39	226	235	A	H
		5407.08	50.56	-23.44	74	39.98	31.53	6.39	27.34	226	235	P	H
		5382.16	41.78	-12.22	54	31.32	31.43	6.38	27.35	226	235	A	H
		5139.62	53.93	-20.07	74	43.15	31.92	6.27	27.41	315	145	P	V
		5139.36	45.18	-8.82	54	34.4	31.92	6.27	27.41	315	145	A	V
	*	5220	117.97	-	-	107.52	31.54	6.3	27.39	315	145	P	V
	*	5220	110.65	-	-	100.2	31.54	6.3	27.39	315	145	A	V
		5350	51.3	-22.7	74	41	31.3	6.36	27.36	315	145	P	V
		5379.08	42.04	-11.96	54	31.59	31.42	6.38	27.35	315	145	A	V

802.11a CH 48 5240MHz		5111.02	52.36	-21.64	74	41.53	31.98	6.27	27.42	226	232	P	H
		5081.12	42.75	-11.25	54	32.03	31.89	6.26	27.43	226	232	A	H
	*	5240	115.4	-	-	105.1	31.38	6.31	27.39	226	232	P	H
	*	5240	107.55	-	-	97.25	31.38	6.31	27.39	226	232	A	H
		5383.56	51.58	-22.42	74	41.12	31.43	6.38	27.35	226	232	P	H
		5402.32	41.8	-12.2	54	31.25	31.51	6.39	27.35	226	232	A	H
		5085.28	52.99	-21.01	74	42.25	31.91	6.26	27.43	310	148	P	V
		5145.08	43.77	-10.23	54	32.99	31.91	6.28	27.41	310	148	A	V
	*	5240	117.36	-	-	107.06	31.38	6.31	27.39	310	148	P	V
	*	5240	110.33	-	-	100.03	31.38	6.31	27.39	310	148	A	V
		5356.68	50.6	-23.4	74	40.26	31.33	6.37	27.36	310	148	P	V
		5399.52	41.86	-12.14	54	31.32	31.5	6.39	27.35	310	148	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	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	48.27	-19.93	68.2	54.87	39.84	10.07	56.51	100	0	P	H
		15540	56.72	-17.28	74	61.64	38.6	12.32	55.84	200	203	P	H
		15540	44.38	-9.62	54	49.3	38.6	12.32	55.84	200	203	A	H
		17989	56.34	-17.66	74	52.07	47.79	12.96	56.48	200	322	P	H
		17989	46.3	-7.7	54	42.03	47.79	12.96	56.48	200	322	A	H
		10360	48.06	-20.14	68.2	54.66	39.84	10.07	56.51	100	0	P	V
		15540	48.98	-25.02	74	53.9	38.6	12.32	55.84	100	0	P	V
		17989	56.58	-17.42	74	52.31	47.79	12.96	56.48	200	135	P	V
		17989	46.08	-7.92	54	41.81	47.79	12.96	56.48	200	135	A	V
		10360	48.06	-20.14	68.2	54.66	39.84	10.07	56.51	100	0	P	V
802.11a CH 44 5220MHz		10440	48.14	-20.06	68.2	54.53	39.96	10.11	56.46	100	0	P	H
		15657	58.42	-15.58	74	63.57	38.3	12.33	55.78	169	178	P	H
		15657	46.8	-7.2	54	51.95	38.3	12.33	55.78	169	178	A	H
		18000	56.23	-17.77	74	51.63	48.1	12.97	56.47	200	147	P	H
		18000	46.33	-7.67	54	41.73	48.1	12.97	56.47	200	147	A	H
		10440	47.08	-21.12	68.2	53.47	39.96	10.11	56.46	100	0	P	V
		15657	50.87	-23.13	74	56.02	38.3	12.33	55.78	100	0	P	V
		17978	56.74	-17.26	74	52.79	47.48	12.96	56.49	200	355	P	V
		17978	46.56	-7.44	54	42.61	47.48	12.96	56.49	200	355	A	V

802.11a CH 48 5240MHz		10480	47.85	-20.35	68.2	54.23	39.92	10.13	56.43	100	0	P	H
		15720	56.01	-17.99	74	61.21	38.22	12.33	55.75	166	173	P	H
		15720	45.95	-8.05	54	51.15	38.22	12.33	55.75	166	173	A	H
		18000	56.55	-17.45	74	51.95	48.1	12.97	56.47	200	122	P	H
		18000	46.46	-7.54	54	41.86	48.1	12.97	56.47	200	122	A	H
		10480	47.48	-20.72	68.2	53.86	39.92	10.13	56.43	100	0	P	V
		15720	49.93	-24.07	74	55.13	38.22	12.33	55.75	100	0	P	V
		18000	57.1	-16.9	74	52.5	48.1	12.97	56.47	200	233	P	V
		18000	46.88	-7.12	54	42.28	48.1	12.97	56.47	200	233	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 (Band Edge @ 3m)

WIFI Ant. 1+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)
		5149.5	60.27	-13.73	74	49.5	31.9	6.28	27.41	262	227	P	H
		5149.5	49.71	-4.29	54	38.94	31.9	6.28	27.41	262	227	A	H
	*	5180	112.66	-	-	102	31.78	6.28	27.4	262	227	P	H
	*	5180	105.52	-	-	94.86	31.78	6.28	27.4	262	227	A	H
802.11n													H
HT20													H
CH 36		5147.16	62.39	-11.61	74	51.61	31.91	6.28	27.41	222	143	P	V
5180MHz		5147.16	50.72	-3.28	54	39.94	31.91	6.28	27.41	222	143	A	V
	*	5180	115.66	-	-	105	31.78	6.28	27.4	222	143	P	V
	*	5180	108.12	-	-	97.46	31.78	6.28	27.4	222	143	A	V
													V
													V
		5145.86	54.63	-19.37	74	43.85	31.91	6.28	27.41	227	235	P	H
		5140.92	43.42	-10.58	54	32.63	31.92	6.28	27.41	227	235	A	H
	*	5220	113.82	-	-	103.37	31.54	6.3	27.39	227	235	P	H
	*	5220	106.07	-	-	95.62	31.54	6.3	27.39	227	235	A	H
802.11n		5363.4	50.61	-23.39	74	40.25	31.35	6.37	27.36	227	235	P	H
HT20		5381.88	41.76	-12.24	54	31.3	31.43	6.38	27.35	227	235	A	H
CH 44		5145.86	54.13	-19.87	74	43.35	31.91	6.28	27.41	316	149	P	V
5220MHz		5139.36	45.08	-8.92	54	34.3	31.92	6.27	27.41	316	149	A	V
	*	5220	116.36	-	-	105.91	31.54	6.3	27.39	316	149	P	V
	*	5220	109.31	-	-	98.86	31.54	6.3	27.39	316	149	A	V
		5355.56	51.45	-22.55	74	41.12	31.32	6.37	27.36	316	149	P	V
		5379.36	41.93	-12.07	54	31.48	31.42	6.38	27.35	316	149	A	V

		5050.7	52.01	-21.99	74	41.5	31.7	6.25	27.44	229	232	P	H
		5148.98	42.83	-11.17	54	32.06	31.9	6.28	27.41	229	232	A	H
	*	5240	112.97	-	-	102.67	31.38	6.31	27.39	229	232	P	H
	*	5240	105.73	-	-	95.43	31.38	6.31	27.39	229	232	A	H
802.11n		5391.12	51.78	-22.22	74	41.28	31.46	6.39	27.35	229	232	P	H
HT20		5351.64	41.91	-12.09	54	31.59	31.31	6.37	27.36	229	232	A	H
CH 48		5081.38	53.99	-20.01	74	43.27	31.89	6.26	27.43	310	147	P	V
5240MHz		5148.72	43.93	-10.07	54	33.16	31.9	6.28	27.41	310	147	A	V
	*	5240	116.09	-	-	105.79	31.38	6.31	27.39	310	147	P	V
	*	5240	108.66	-	-	98.36	31.38	6.31	27.39	310	147	A	V
		5360.04	50.65	-23.35	74	40.3	31.34	6.37	27.36	310	147	P	V
		5351.36	41.96	-12.04	54	31.64	31.31	6.37	27.36	310	147	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. 1+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	47.65	-20.55	68.2	54.25	39.84	10.07	56.51	100	0	P	H
		15540	56.41	-17.59	74	61.33	38.6	12.32	55.84	162	177	P	H
		15540	45.12	-8.88	54	50.04	38.6	12.32	55.84	162	177	A	H
		17989	56.23	-17.77	74	51.96	47.79	12.96	56.48	200	55	P	H
802.11n		17989	46.31	-7.69	54	42.04	47.79	12.96	56.48	200	55	A	H
HT20													
CH 36		10360	46.97	-21.23	68.2	53.57	39.84	10.07	56.51	100	0	P	V
5180MHz		15540	47.58	-26.42	74	52.5	38.6	12.32	55.84	100	0	P	V
		17967	56.02	-17.98	74	52.39	47.18	12.95	56.5	200	312	P	V
		17967	46.1	-7.9	54	42.47	47.18	12.95	56.5	200	312	A	V
		10440	46.93	-21.27	68.2	53.32	39.96	10.11	56.46	400	0	P	H
		15660	49.57	-24.43	74	54.72	38.3	12.33	55.78	400	0	P	H
		17967	56.13	-17.87	74	52.5	47.18	12.95	56.5	200	57	P	H
		17967	46.3	-7.7	54	42.67	47.18	12.95	56.5	200	57	A	H
802.11n													
HT20													
CH 44		10440	46.61	-21.59	68.2	53	39.96	10.11	56.46	100	0	P	V
5220MHz		15660	49.47	-24.53	74	54.62	38.3	12.33	55.78	100	0	P	V
		17989	56.62	-17.38	74	52.35	47.79	12.96	56.48	200	285	P	V
		17989	46.53	-7.47	54	42.26	47.79	12.96	56.48	200	285	A	V

		10480	49.19	-19.01	68.2	55.57	39.92	10.13	56.43	100	0	P	H
		15720	56.52	-17.48	74	61.72	38.22	12.33	55.75	166	177	P	H
		15720	45.66	-8.34	54	50.86	38.22	12.33	55.75	166	177	A	H
		17989	57.1	-16.9	74	52.83	47.79	12.96	56.48	200	49	P	H
802.11n		17989	46.89	-7.11	54	42.62	47.79	12.96	56.48	200	49	A	H
HT20													
CH 48		10480	49.67	-18.53	68.2	56.05	39.92	10.13	56.43	100	0	P	V
5240MHz		15720	49.2	-24.8	74	54.4	38.22	12.33	55.75	100	0	P	V
		17989	56.92	-17.08	74	52.65	47.79	12.96	56.48	200	322	P	V
		17989	46.85	-7.15	54	42.58	47.79	12.96	56.48	200	322	A	V

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

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+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		5148.2	57.21	-16.79	74	46.44	31.9	6.28	27.41	259	229	P	H
		5149.5	49.31	-4.69	54	38.54	31.9	6.28	27.41	259	229	A	H
	*	5190	108.94	-	-	98.31	31.74	6.29	27.4	259	229	P	H
	*	5190	101.15	-	-	90.52	31.74	6.29	27.4	259	229	A	H
		5432.28	50.87	-23.13	74	40.18	31.63	6.4	27.34	259	229	P	H
		5354.16	40.95	-13.05	54	30.62	31.32	6.37	27.36	259	229	A	H
		5147.16	58.63	-15.37	74	47.85	31.91	6.28	27.41	299	145	P	V
		5147.16	50.07	-3.93	54	39.29	31.91	6.28	27.41	299	145	A	V
	*	5190	111.6	-	-	100.97	31.74	6.29	27.4	299	145	P	V
	*	5190	103.97	-	-	93.34	31.74	6.29	27.4	299	145	A	V
		5396.16	50.55	-23.45	74	40.03	31.48	6.39	27.35	299	145	P	V
		5351.08	41.1	-12.9	54	30.79	31.3	6.37	27.36	299	145	A	V
802.11n HT40 CH 46 5230MHz		5142.22	52.72	-21.28	74	41.93	31.92	6.28	27.41	227	234	P	H
		5148.98	45.06	-8.94	54	34.29	31.9	6.28	27.41	227	234	A	H
	*	5230	110.45	-	-	100.08	31.46	6.3	27.39	227	234	P	H
	*	5230	103.1	-	-	92.73	31.46	6.3	27.39	227	234	A	H
		5397.84	53.04	-20.96	74	42.51	31.49	6.39	27.35	227	234	P	H
		5350	41.74	-12.26	54	31.44	31.3	6.36	27.36	227	234	A	H
		5141.44	54.57	-19.43	74	43.78	31.92	6.28	27.41	316	150	P	V
		5147.42	46.88	-7.12	54	36.1	31.91	6.28	27.41	316	150	A	V
	*	5230	113.68	-	-	103.31	31.46	6.3	27.39	316	150	P	V
	*	5230	106.18	-	-	95.81	31.46	6.3	27.39	316	150	A	V
		5398.68	51.01	-22.99	74	40.48	31.49	6.39	27.35	316	150	P	V
		5350	41.71	-12.29	54	31.41	31.3	6.36	27.36	316	150	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. 1+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	47.71	-20.49	68.2	54.2	39.92	10.08	56.49	100	0	P	H
		15570	46.08	-27.92	74	51.15	38.45	12.31	55.83	100	0	P	H
		17978	56.46	-17.54	74	52.51	47.48	12.96	56.49	200	236	P	H
		17978	46.32	-7.68	54	42.37	47.48	12.96	56.49	200	236	A	H
802.11n													
HT40													
CH 38		10380	46.74	-21.46	68.2	53.23	39.92	10.08	56.49	100	0	P	V
5190MHz		15570	46.15	-27.85	74	51.22	38.45	12.31	55.83	100	0	P	V
		17967	56.26	-17.74	74	52.63	47.18	12.95	56.5	200	322	P	V
		17967	46.53	-7.47	54	42.9	47.18	12.95	56.5	200	322	A	V
		10460	47.78	-20.42	68.2	54.16	39.94	10.12	56.44	100	0	P	H
		15690	47.24	-26.76	74	52.38	38.3	12.32	55.76	100	0	P	H
		18000	56.64	-17.36	74	52.04	48.1	12.97	56.47	200	134	P	H
		18000	46.46	-7.54	54	41.86	48.1	12.97	56.47	200	134	A	H
802.11n													
HT40													
CH 46		10460	47.05	-21.15	68.2	53.43	39.94	10.12	56.44	100	0	P	V
5230MHz		15690	46.76	-27.24	74	51.9	38.3	12.32	55.76	100	0	P	V
		18000	56.23	-17.77	74	51.63	48.1	12.97	56.47	200	286	P	V
		18000	46.32	-7.68	54	41.72	48.1	12.97	56.47	200	286	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 (Band Edge @ 3m)

WIFI Ant. 1+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		5147.16	56.6	-17.4	74	45.82	31.91	6.28	27.41	258	229	P	H
		5146.38	47.58	-6.42	54	36.8	31.91	6.28	27.41	258	229	A	H
	*	5210	102.19	-	-	91.67	31.62	6.3	27.4	258	229	P	H
	*	5210	94.4	-	-	83.88	31.62	6.3	27.4	258	229	A	H
		5362.56	50.22	-23.78	74	39.86	31.35	6.37	27.36	258	229	P	H
		5456.92	40.69	-13.31	54	29.9	31.71	6.41	27.33	258	229	A	H
		5150	58.2	-15.8	74	47.43	31.9	6.28	27.41	298	145	P	V
		5149.5	50.78	-3.22	54	40.01	31.9	6.28	27.41	298	145	A	V
	*	5210	103.72	-	-	93.2	31.62	6.3	27.4	298	145	P	V
	*	5210	96.07	-	-	85.55	31.62	6.3	27.4	298	145	A	V
		5453.28	50.63	-23.37	74	39.84	31.71	6.41	27.33	298	145	P	V
		5460	40.68	-13.32	54	29.88	31.72	6.41	27.33	298	145	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. 1+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	46.27	-21.93	68.2	52.66	39.98	10.1	56.47	100	0	P	H
		15630	45.23	-28.77	74	50.41	38.3	12.32	55.8	100	0	P	H
		17967	56.63	-17.37	74	53	47.18	12.95	56.5	200	78	P	H
		17967	46.36	-7.64	54	42.73	47.18	12.95	56.5	200	78	A	H
802.11ac													
VHT80													
CH 42		10420	46.39	-21.81	68.2	52.78	39.98	10.1	56.47	100	0	P	V
5210MHz		15630	45.06	-28.94	74	50.24	38.3	12.32	55.8	100	0	P	V
		17978	56.23	-17.77	74	52.28	47.48	12.96	56.49	200	316	P	V
		17978	46.55	-7.45	54	42.6	47.48	12.96	56.49	200	316	A	V

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+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 52 5260MHz		5104.38	52.88	-21.12	74	42.04	31.99	6.27	27.42	227	234	P	H
		5098.94	42.71	-11.29	54	31.88	31.99	6.26	27.42	227	234	A	H
	*	5260	115.47	-	-	105.23	31.3	6.32	27.38	227	234	P	H
	*	5260	107.5	-	-	97.26	31.3	6.32	27.38	227	234	A	H
		5356.56	52.64	-21.36	74	42.3	31.33	6.37	27.36	227	234	P	H
		5351.76	42.4	-11.6	54	32.08	31.31	6.37	27.36	227	234	A	H
		5127.84	54.21	-19.79	74	43.42	31.94	6.27	27.42	322	149	P	V
		5102.68	43.55	-10.45	54	32.71	31.99	6.27	27.42	322	149	A	V
	*	5254	117.16	-	-	106.92	31.3	6.32	27.38	322	149	P	V
	*	5254	109.49	-	-	99.25	31.3	6.32	27.38	322	149	A	V
		5422.56	51.28	-22.72	74	40.63	31.59	6.4	27.34	322	149	P	V
		5350.08	42.45	-11.55	54	32.14	31.3	6.37	27.36	322	149	A	V
802.11a CH 60 5300MHz		5062.22	52.73	-21.27	74	42.13	31.77	6.26	27.43	223	233	P	H
		5141.44	42.51	-11.49	54	31.72	31.92	6.28	27.41	223	233	A	H
	*	5300	114.72	-	-	104.45	31.3	6.34	27.37	223	233	P	H
	*	5300	107.42	-	-	97.15	31.3	6.34	27.37	223	233	A	H
		5351.52	53.12	-20.88	74	42.8	31.31	6.37	27.36	223	233	P	H
		5350.08	44.67	-9.33	54	34.36	31.3	6.37	27.36	223	233	A	H
		5083.98	52.34	-21.66	74	41.61	31.9	6.26	27.43	318	146	P	V
		5139.06	43.44	-10.56	54	32.66	31.92	6.27	27.41	318	146	A	V
	*	5300	116.81	-	-	106.54	31.3	6.34	27.37	318	146	P	V
	*	5300	109.69	-	-	99.42	31.3	6.34	27.37	318	146	A	V
		5354.16	52.87	-21.13	74	42.54	31.32	6.37	27.36	318	146	P	V
		5351.76	44.32	-9.68	54	34	31.31	6.37	27.36	318	146	A	V

802.11a CH 64 5320MHz	*	5320	114.23	-	-	103.95	31.3	6.35	27.37	253	233	P	H
	*	5320	107.01	-	-	96.73	31.3	6.35	27.37	253	233	A	H
		5352.8	59.53	-14.47	74	49.21	31.31	6.37	27.36	253	233	P	H
		5352.16	47.05	-6.95	54	36.73	31.31	6.37	27.36	253	233	A	H
													H
													H
	*	5320	114.63	-	-	104.35	31.3	6.35	27.37	302	161	P	V
	*	5320	107.26	-	-	96.98	31.3	6.35	27.37	302	161	A	V
		5351.52	59.32	-14.68	74	49	31.31	6.37	27.36	302	161	P	V
		5350.08	47.93	-6.07	54	37.62	31.3	6.37	27.36	302	161	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+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 52 5260MHz		10520	46.93	-21.27	68.2	53.24	39.96	10.14	56.41	100	0	P	H
		15780	56.61	-17.39	74	62.01	37.98	12.34	55.72	170	177	P	H
		15780	45.43	-8.57	54	50.83	37.98	12.34	55.72	170	177	A	H
		17978	56.39	-17.61	74	52.44	47.48	12.96	56.49	200	69	P	H
		17978	46.38	-7.62	54	42.43	47.48	12.96	56.49	200	69	A	H
		10520	47.14	-21.06	68.2	53.45	39.96	10.14	56.41	100	0	P	V
		15780	48.24	-25.76	74	53.64	37.98	12.34	55.72	100	0	P	V
		17978	56.62	-17.38	74	52.67	47.48	12.96	56.49	200	286	P	V
		17978	46.68	-7.32	54	42.73	47.48	12.96	56.49	200	286	A	V
802.11a CH 60 5300MHz		10600	47.57	-26.43	74	53.55	40.2	10.18	56.36	100	0	P	H
		15900	49.4	-24.6	74	54.91	37.8	12.35	55.66	100	0	P	H
		17989	56.61	-17.39	74	52.34	47.79	12.96	56.48	200	141	P	H
		17989	46.33	-7.67	54	42.06	47.79	12.96	56.48	200	141	A	H
		10600	47.34	-26.66	74	53.32	40.2	10.18	56.36	100	0	P	V
		15900	49.19	-24.81	74	54.7	37.8	12.35	55.66	100	0	P	V
		17989	56.28	-17.72	74	52.01	47.79	12.96	56.48	200	342	P	V
		17989	46.53	-7.47	54	42.26	47.79	12.96	56.48	200	342	A	V

802.11a CH 64 5320MHz		10640	47.6	-26.4	74	53.55	40.2	10.19	56.34	400	0	P	H
		15960	46.18	-27.82	74	51.66	37.8	12.35	55.63	400	0	P	H
		17978	56.42	-17.58	74	52.47	47.48	12.96	56.49	200	120	P	H
		17978	46.32	-7.68	54	42.37	47.48	12.96	56.49	200	120	A	H
		10640	47.55	-26.45	74	53.5	40.2	10.19	56.34	100	0	P	V
		15960	45.13	-28.87	74	50.61	37.8	12.35	55.63	100	0	P	V
		18000	56.78	-17.22	74	52.18	48.1	12.97	56.47	200	310	P	V
		18000	46.33	-7.67	54	41.73	48.1	12.97	56.47	200	310	A	V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+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)
		5102	52.25	-21.75	74	41.4	32	6.27	27.42	226	234	P	H
		5099.28	42.64	-11.36	54	31.8	32	6.26	27.42	226	234	A	H
	*	5260	113.49	-	-	103.25	31.3	6.32	27.38	226	234	P	H
	*	5260	106.81	-	-	96.57	31.3	6.32	27.38	226	234	A	H
802.11n		5358.24	53.05	-20.95	74	42.71	31.33	6.37	27.36	226	234	P	H
HT20		5350.08	42.42	-11.58	54	32.11	31.3	6.37	27.36	226	234	A	H
CH 52		5094.86	53.82	-20.18	74	43.02	31.97	6.26	27.43	325	148	P	V
5260MHz		5147.56	43.64	-10.36	54	32.87	31.9	6.28	27.41	325	148	A	V
	*	5260	116.38	-	-	106.14	31.3	6.32	27.38	325	148	P	V
	*	5260	108.86	-	-	98.62	31.3	6.32	27.38	325	148	A	V
		5417.52	51.45	-22.55	74	40.82	31.57	6.4	27.34	325	148	P	V
		5351.76	42.5	-11.5	54	32.18	31.31	6.37	27.36	325	148	A	V
		5145.18	52.58	-21.42	74	41.8	31.91	6.28	27.41	223	234	P	H
		5141.44	42.4	-11.6	54	31.61	31.92	6.28	27.41	223	234	A	H
	*	5300	114.05	-	-	103.78	31.3	6.34	27.37	223	234	P	H
	*	5300	106.5	-	-	96.23	31.3	6.34	27.37	223	234	A	H
802.11n		5376.96	53.77	-20.23	74	43.33	31.41	6.38	27.35	223	234	P	H
HT20		5351.28	44.24	-9.76	54	33.92	31.31	6.37	27.36	223	234	A	H
CH 60		5135.32	52.36	-21.64	74	41.57	31.93	6.27	27.41	324	147	P	V
5300MHz		5139.4	43.46	-10.54	54	32.68	31.92	6.27	27.41	324	147	A	V
	*	5300	115.87	-	-	105.6	31.3	6.34	27.37	324	147	P	V
	*	5300	108.37	-	-	98.1	31.3	6.34	27.37	324	147	A	V
		5353.44	53.16	-20.84	74	42.84	31.31	6.37	27.36	324	147	P	V
		5350.08	44.11	-9.89	54	33.8	31.3	6.37	27.36	324	147	A	V

	*	5320	113.52	-	-	103.24	31.3	6.35	27.37	245	233	P	H
	*	5320	106.48	-	-	96.2	31.3	6.35	27.37	245	233	A	H
		5350.08	61.43	-12.57	74	51.12	31.3	6.37	27.36	245	233	P	H
		5350.08	48.34	-5.66	54	38.03	31.3	6.37	27.36	245	233	A	H
802.11n													H
HT20													H
CH 64	*	5320	115.24	-	-	104.96	31.3	6.35	27.37	215	157	P	V
5320MHz	*	5320	107.77	-	-	97.49	31.3	6.35	27.37	215	157	A	V
		5351.68	57.67	-16.33	74	47.35	31.31	6.37	27.36	215	157	P	V
		5351.52	48.64	-5.36	54	38.32	31.31	6.37	27.36	215	157	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+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)
		10520	47.76	-20.44	68.2	54.07	39.96	10.14	56.41	100	0	P	H
		15780	48.28	-25.72	74	53.68	37.98	12.34	55.72	100	0	P	H
		17978	55.81	-18.19	74	51.86	47.48	12.96	56.49	175	213	P	H
		17978	45.95	-8.05	54	42	47.48	12.96	56.49	175	213	A	H
802.11n													
HT20													
CH 52		10520	48.13	-20.07	68.2	54.44	39.96	10.14	56.41	100	0	P	V
5260MHz		15780	45	-29	74	50.4	37.98	12.34	55.72	100	0	P	V
		17956	55.76	-18.24	74	52.45	46.87	12.94	56.5	111	155	P	V
		17956	45.87	-8.13	54	42.56	46.87	12.94	56.5	111	155	A	V
		10600	47.91	-26.09	74	53.89	40.2	10.18	56.36	100	0	P	H
		15900	47.73	-26.27	74	53.24	37.8	12.35	55.66	100	0	P	H
		17978	55.62	-18.38	74	51.67	47.48	12.96	56.49	175	213	P	H
		17978	45.55	-8.45	54	41.6	47.48	12.96	56.49	175	213	A	H
802.11n													
HT20													
CH 60		10600	48.45	-25.55	74	54.43	40.2	10.18	56.36	100	0	P	V
5300MHz		15900	46.46	-27.54	74	51.97	37.8	12.35	55.66	100	0	P	V
		18000	55.34	-18.66	74	50.74	48.1	12.97	56.47	115	162	P	V
		18000	45.52	-8.48	54	40.92	48.1	12.97	56.47	115	162	A	V

		10640	47.09	-26.91	74	53.04	40.2	10.19	56.34	100	0	P	H
		15960	45.01	-28.99	74	50.49	37.8	12.35	55.63	100	0	P	H
		17967	55.88	-18.12	74	52.25	47.18	12.95	56.5	186	209	P	H
		17967	45.98	-8.02	54	42.35	47.18	12.95	56.5	186	209	A	H
802.11n													
HT20													
CH 64		10640	48.29	-25.71	74	54.24	40.2	10.19	56.34	100	0	P	V
5320MHz		15960	43.86	-30.14	74	49.34	37.8	12.35	55.63	100	0	P	V
		17989	54.73	-19.27	74	50.46	47.79	12.96	56.48	117	162	P	V
		17989	45.23	-8.77	54	40.96	47.79	12.96	56.48	117	162	A	V

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+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 54 5270MHz		5108.12	53.17	-20.83	74	42.34	31.98	6.27	27.42	228	234	P	H
		5113.9	42.47	-11.53	54	31.65	31.97	6.27	27.42	228	234	A	H
	*	5270	110.75	-	-	100.51	31.3	6.32	27.38	228	234	P	H
	*	5270	103.48	-	-	93.24	31.3	6.32	27.38	228	234	A	H
		5352.48	53.71	-20.29	74	43.39	31.31	6.37	27.36	228	234	P	H
		5350.08	45.77	-8.23	54	35.46	31.3	6.37	27.36	228	234	A	H
		5101.32	52.79	-21.21	74	41.94	32	6.27	27.42	321	149	P	V
		5146.88	43.42	-10.58	54	32.64	31.91	6.28	27.41	321	149	A	V
	*	5270	113.55	-	-	103.31	31.3	6.32	27.38	321	149	P	V
	*	5270	106.06	-	-	95.82	31.3	6.32	27.38	321	149	A	V
		5357.28	54.6	-19.4	74	44.26	31.33	6.37	27.36	321	149	P	V
		5351.76	45.75	-8.25	54	35.43	31.31	6.37	27.36	321	149	A	V
802.11n HT40 CH 62 5310MHz		5132.94	52.78	-21.22	74	42	31.93	6.27	27.42	235	232	P	H
		5147.22	42.07	-11.93	54	31.29	31.91	6.28	27.41	235	232	A	H
	*	5310	110.28	-	-	100.01	31.3	6.34	27.37	235	232	P	H
	*	5310	103.05	-	-	92.78	31.3	6.34	27.37	235	232	A	H
		5352.96	64.59	-9.41	74	54.27	31.31	6.37	27.36	235	232	P	H
		5351.28	50.51	-3.49	54	40.19	31.31	6.37	27.36	235	232	P	H
		5144.16	52.68	-21.32	74	41.9	31.91	6.28	27.41	324	141	P	V
		5144.16	42.43	-11.57	54	31.65	31.91	6.28	27.41	324	141	A	V
	*	5310	110.25	-	-	99.98	31.3	6.34	27.37	324	141	P	V
	*	5310	102.87	-	-	92.6	31.3	6.34	27.37	324	141	A	V
		5353.92	61.37	-12.63	74	51.04	31.32	6.37	27.36	324	141	P	V
		5350.08	50.61	-3.39	54	40.3	31.3	6.37	27.36	324	141	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+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)
		10540	46.47	-21.73	68.2	52.7	40.02	10.15	56.4	100	0	P	H
		15810	45.02	-28.98	74	50.49	37.89	12.35	55.71	100	0	P	H
		18000	55.82	-18.18	74	51.22	48.1	12.97	56.47	200	263	P	H
		18000	46.1	-7.9	54	41.5	48.1	12.97	56.47	200	263	A	H
802.11n													
HT40													
CH 54		10540	47.31	-20.89	68.2	53.54	40.02	10.15	56.4	100	0	P	V
5270MHz		15810	44.45	-29.55	74	49.92	37.89	12.35	55.71	100	0	P	V
		17978	56.1	-17.9	74	52.15	47.48	12.96	56.49	200	244	P	V
		17978	45.8	-8.2	54	41.85	47.48	12.96	56.49	200	244	A	V
		10620	46.92	-27.08	74	52.89	40.2	10.18	56.35	400	0	P	H
		15930	45.22	-28.78	74	50.71	37.8	12.36	55.65	400	0	P	H
		18000	56.2	-17.8	74	51.6	48.1	12.97	56.47	200	137	P	H
		18000	46.13	-7.87	54	41.53	48.1	12.97	56.47	200	137	A	H
802.11n													
HT40													
CH 62		10620	47.54	-26.46	74	53.51	40.2	10.18	56.35	100	0	P	V
5310MHz		15930	44.09	-29.91	74	49.58	37.8	12.36	55.65	100	0	P	V
		18000	55.96	-18.04	74	51.36	48.1	12.97	56.47	200	320	P	V
		18000	45.89	-8.11	54	41.29	48.1	12.97	56.47	200	320	A	V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+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 58 5290MHz		5115.6	52.74	-21.26	74	41.92	31.97	6.27	27.42	238	230	P	H
		5146.54	42.15	-11.85	54	31.37	31.91	6.28	27.41	238	230	A	H
	*	5290	104.23	-	-	93.96	31.3	6.34	27.37	238	230	P	H
	*	5290	96.95	-	-	86.68	31.3	6.34	27.37	238	230	A	H
		5350.32	57.06	-16.94	74	46.75	31.3	6.37	27.36	238	230	P	H
		5351.04	48.88	-5.12	54	38.57	31.3	6.37	27.36	238	230	A	H
		5145.52	53.03	-20.97	74	42.25	31.91	6.28	27.41	301	158	P	V
		5149.94	42.54	-11.46	54	31.77	31.9	6.28	27.41	301	158	A	V
	*	5290	104.86	-	-	94.59	31.3	6.34	27.37	301	158	P	V
	*	5290	97.37	-	-	87.1	31.3	6.34	27.37	301	158	A	V
		5350.08	57.51	-16.49	74	47.2	31.3	6.37	27.36	301	158	P	V
		5350.08	50.86	-3.14	54	40.55	31.3	6.37	27.36	301	158	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+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)
		10580	46.22	-21.98	68.2	52.28	40.14	10.17	56.37	400	0	P	H
		15870	44.29	-29.71	74	49.78	37.83	12.35	55.67	400	0	P	H
		17967	55.53	-18.47	74	51.9	47.18	12.95	56.5	300	263	P	H
		17967	45.93	-8.07	54	42.3	47.18	12.95	56.5	300	263	A	H
802.11ac													
VHT80													
CH 58		10580	47.09	-21.11	68.2	53.15	40.14	10.17	56.37	100	0	P	V
5290MHz		15870	44	-30	74	49.49	37.83	12.35	55.67	100	0	P	V
		18000	55.4	-18.6	74	50.8	48.1	12.97	56.47	133	215	P	V
		18000	45.56	-8.44	54	40.96	48.1	12.97	56.47	133	215	A	V

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

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+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 100 5500MHz		5448.56	53.69	-20.31	74	42.93	31.69	6.4	27.33	212	211	P	H
		5468.56	59.56	-8.64	68.2	48.74	31.74	6.41	27.33	212	211	P	H
		5460	45.23	-8.77	54	34.43	31.72	6.41	27.33	212	211	A	H
	*	5500	114.06	-	-	103.16	31.8	6.42	27.32	212	211	P	H
	*	5500	106.41	-	-	95.51	31.8	6.42	27.32	212	211	A	H
													H
		5452.88	56.27	-17.73	74	45.48	31.71	6.41	27.33	207	154	P	V
		5465.68	62.19	-6.01	68.2	51.38	31.73	6.41	27.33	207	154	P	V
		5459.92	47.09	-6.91	54	36.29	31.72	6.41	27.33	207	154	A	V
	*	5500	115.56	-	-	104.66	31.8	6.42	27.32	207	154	P	V
	*	5500	108.21	-	-	97.31	31.8	6.42	27.32	207	154	A	V
													V
802.11a CH 116 5580MHz		5446.96	52.6	-21.4	74	41.84	31.69	6.4	27.33	223	209	P	H
		5467.84	52.75	-15.45	68.2	41.93	31.74	6.41	27.33	223	209	P	H
		5459.92	42.65	-11.35	54	31.85	31.72	6.41	27.33	223	209	A	H
	*	5580	116.59	-	-	105.71	31.82	6.44	27.38	223	209	P	H
	*	5580	109.21	-	-	98.33	31.82	6.44	27.38	223	209	A	H
		5741.06	51.88	-16.32	68.2	40.88	32.08	6.41	27.49	223	209	P	H
		5416.72	53.46	-20.54	74	42.83	31.57	6.4	27.34	201	136	P	V
		5462.56	53.92	-14.28	68.2	43.11	31.73	6.41	27.33	201	136	P	V
		5459.92	43.64	-10.36	54	32.84	31.72	6.41	27.33	201	136	A	V
	*	5580	117.03	-	-	106.15	31.82	6.44	27.38	201	136	P	V
	*	5580	109.67	-	-	98.79	31.82	6.44	27.38	201	136	A	V
		5730.98	52.08	-16.12	68.2	41.1	32.06	6.41	27.49	201	136	P	V

802.11a CH 140 5700MHz	*	5700	113.91	-	-	102.95	32	6.42	27.46	209	211	P	H
	*	5700	106.36	-	-	95.4	32	6.42	27.46	209	211	A	H
		5728.36	62.07	-6.13	68.2	51.08	32.06	6.41	27.48	209	211	P	H
													H
													H
													H
	*	5700	114.15	-	-	103.19	32	6.42	27.46	205	149	P	V
	*	5700	106.91	-	-	95.95	32	6.42	27.46	205	149	A	V
		5725.88	63.98	-4.22	68.2	53	32.05	6.41	27.48	205	149	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+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 100 5500MHz		11000	46.93	-27.07	74	52.3	40.4	10.36	56.13	400	0	P	H
		16500	46.34	-21.86	68.2	49.93	39.4	12.42	55.41	400	0	P	H
		17989	55.52	-18.48	74	51.25	47.79	12.96	56.48	400	69	P	H
		17989	45.75	-8.25	54	41.48	47.79	12.96	56.48	400	69	A	H
		11000	47.62	-26.38	74	52.99	40.4	10.36	56.13	100	0	P	V
		16500	45.58	-22.62	68.2	49.17	39.4	12.42	55.41	100	0	P	V
		18000	55.76	-18.24	74	51.16	48.1	12.97	56.47	133	238	P	V
		18000	45.67	-8.33	54	41.07	48.1	12.97	56.47	133	238	A	V
802.11a CH 116 5580MHz		11160	46.82	-27.18	74	52.53	39.88	10.43	56.02	400	0	P	H
		16740	47	-21.2	68.2	50.09	40.08	12.44	55.61	400	0	P	H
		17989	55.19	-18.81	74	50.92	47.79	12.96	56.48	400	32	P	H
		17989	45.4	-8.6	54	41.13	47.79	12.96	56.48	400	32	A	H
		11160	46.38	-27.62	74	52.09	39.88	10.43	56.02	100	0	P	V
		16740	46.54	-21.66	68.2	49.63	40.08	12.44	55.61	100	0	P	V
		17978	55.19	-18.81	74	51.24	47.48	12.96	56.49	129	311	P	V
		17978	45.37	-8.63	54	41.42	47.48	12.96	56.49	129	311	A	V

802.11a CH 140 5700MHz		11400	46.2	-27.8	74	51.73	39.8	10.53	55.86	400	0	P	H
		17100	46.36	-21.84	68.2	50.07	39.8	12.52	56.03	400	0	P	H
		18000	55.34	-18.66	74	50.74	48.1	12.97	56.47	400	351	P	H
		18000	45.43	-8.57	54	40.83	48.1	12.97	56.47	400	351	A	H
		11400	45.76	-28.24	74	51.29	39.8	10.53	55.86	100	0	P	V
		17100	46.19	-22.01	68.2	49.9	39.8	12.52	56.03	100	0	P	V
		18000	55.56	-18.44	74	50.96	48.1	12.97	56.47	143	58	P	V
		18000	45.76	-8.24	54	41.16	48.1	12.97	56.47	143	58	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+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)
		5458.8	57.3	-16.7	74	46.5	31.72	6.41	27.33	221	211	P	H
		5468.72	63.88	-4.32	68.2	53.06	31.74	6.41	27.33	221	211	P	H
		5459.76	45.75	-8.25	54	34.95	31.72	6.41	27.33	221	211	A	H
	*	5500	114.02	-	-	103.12	31.8	6.42	27.32	221	211	P	H
802.11n	*	5500	106.59	-	-	95.69	31.8	6.42	27.32	221	211	A	H
HT20													H
CH 100		5455.6	59.48	-14.52	74	48.69	31.71	6.41	27.33	209	156	P	V
5500MHz		5467.44	64.71	-3.49	68.2	53.9	31.73	6.41	27.33	209	156	P	V
		5457.2	46.18	-7.82	54	35.39	31.71	6.41	27.33	209	156	A	V
	*	5500	115.3	-	-	104.4	31.8	6.42	27.32	209	156	P	V
	*	5500	107.71	-	-	96.81	31.8	6.42	27.32	209	156	A	V
													V
		5451.76	51.27	-22.73	74	40.49	31.7	6.41	27.33	209	209	P	H
		5461.12	51.88	-16.32	68.2	41.08	31.72	6.41	27.33	209	209	P	H
		5459.92	42.56	-11.44	54	31.76	31.72	6.41	27.33	209	209	A	H
	*	5580	115.3	-	-	104.42	31.82	6.44	27.38	209	209	P	H
802.11n	*	5580	107.92	-	-	97.04	31.82	6.44	27.38	209	209	A	H
HT20		5727.83	52	-16.2	68.2	41.01	32.06	6.41	27.48	209	209	P	H
CH 116		5451.52	52.19	-21.81	74	41.41	31.7	6.41	27.33	215	136	P	V
5580MHz		5468.32	52.83	-15.37	68.2	42.01	31.74	6.41	27.33	215	136	P	V
		5459.92	43.52	-10.48	54	32.72	31.72	6.41	27.33	215	136	A	V
	*	5580	116.11	-	-	105.23	31.82	6.44	27.38	215	136	P	V
	*	5580	108.63	-	-	97.75	31.82	6.44	27.38	215	136	A	V
		5731.61	51.56	-16.64	68.2	40.58	32.06	6.41	27.49	215	136	P	V

	*	5700	113.87	-	-	102.91	32	6.42	27.46	225	213	P	H
	*	5700	106.07	-	-	95.11	32	6.42	27.46	225	213	A	H
		5725.08	63.47	-4.73	68.2	52.49	32.05	6.41	27.48	225	213	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	114.43	-	-	103.47	32	6.42	27.46	227	150	P	V
5700MHz	*	5700	106.26	-	-	95.3	32	6.42	27.46	227	150	A	V
		5726.28	63.92	-4.28	68.2	52.94	32.05	6.41	27.48	227	150	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11000	46.85	-27.15	74	52.22	40.4	10.36	56.13	400	0	P	H
		16500	45.89	-22.31	68.2	49.48	39.4	12.42	55.41	400	0	P	H
		18000	55.12	-18.88	74	50.52	48.1	12.97	56.47	376	244	P	H
		18000	45.79	-8.21	54	41.19	48.1	12.97	56.47	376	244	A	H
802.11n													
HT20													
CH 100		11000	46.83	-27.17	74	52.2	40.4	10.36	56.13	100	0	P	V
5500MHz		16500	45.76	-22.44	68.2	49.35	39.4	12.42	55.41	100	0	P	V
		17989	56.21	-17.79	74	51.94	47.79	12.96	56.48	133	295	P	V
		17989	46.56	-7.44	54	42.29	47.79	12.96	56.48	133	295	A	V
		11160	46.27	-27.73	74	51.98	39.88	10.43	56.02	100	0	P	H
		16740	47.45	-20.75	68.2	50.54	40.08	12.44	55.61	100	0	P	H
		17978	55.64	-18.36	74	51.69	47.48	12.96	56.49	334	123	P	H
		17978	45.8	-8.2	54	41.85	47.48	12.96	56.49	334	123	A	H
802.11n													
HT20													
CH 116		11160	46.67	-27.33	74	52.38	39.88	10.43	56.02	100	0	P	V
5580MHz		16740	47.1	-21.1	68.2	50.19	40.08	12.44	55.61	100	0	P	V
		18000	55.94	-18.06	74	51.34	48.1	12.97	56.47	231	299	P	V
		18000	46.2	-7.8	54	41.6	48.1	12.97	56.47	231	299	A	V

		11400	46.8	-27.2	74	52.33	39.8	10.53	55.86	400	0	P	H
		17100	46.85	-21.35	68.2	50.56	39.8	12.52	56.03	400	0	P	H
		17989	55.98	-18.02	74	51.71	47.79	12.96	56.48	389	39	P	H
		17989	46.23	-7.77	54	41.96	47.79	12.96	56.48	389	39	A	H
802.11n													
HT20													
CH 140		11400	47.52	-26.48	74	53.05	39.8	10.53	55.86	100	0	P	V
5700MHz		17100	47.12	-21.08	68.2	50.83	39.8	12.52	56.03	100	0	P	V
		17978	56.21	-17.79	74	52.26	47.48	12.96	56.49	143	283	P	V
		17978	46.42	-7.58	54	42.47	47.48	12.96	56.49	143	283	A	V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+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)
		5458.96	55.56	-18.44	74	44.76	31.72	6.41	27.33	213	208	P	H
		5469.52	61.28	-6.92	68.2	50.46	31.74	6.41	27.33	213	208	P	H
		5458.72	45.59	-8.41	54	34.79	31.72	6.41	27.33	213	208	A	H
	*	5510	110.21	-	-	99.34	31.78	6.42	27.33	213	208	P	H
802.11n	*	5510	102.51	-	-	91.64	31.78	6.42	27.33	213	208	A	H
HT40		5727.515	50.6	-17.6	68.2	39.61	32.06	6.41	27.48	213	208	P	H
CH 102		5457.04	59.96	-14.04	74	49.17	31.71	6.41	27.33	197	154	P	V
5510MHz		5467.36	61.89	-6.31	68.2	51.08	31.73	6.41	27.33	197	154	P	V
		5457.28	46.38	-7.62	54	35.59	31.71	6.41	27.33	197	154	A	V
	*	5510	111.46	-	-	100.59	31.78	6.42	27.33	197	154	P	V
	*	5510	103.66	-	-	92.79	31.78	6.42	27.33	197	154	A	V
		5734.445	50.81	-17.39	68.2	39.82	32.07	6.41	27.49	197	154	P	V
		5458.48	53.18	-20.82	74	42.38	31.72	6.41	27.33	223	211	P	H
		5466.88	52.98	-15.22	68.2	42.17	31.73	6.41	27.33	223	211	P	H
		5456.8	43.93	-10.07	54	33.14	31.71	6.41	27.33	223	211	A	H
	*	5550	112.4	-	-	101.63	31.7	6.43	27.36	223	211	P	H
802.11n	*	5550	104.84	-	-	94.07	31.7	6.43	27.36	223	211	A	H
HT40		5730.665	50.89	-17.31	68.2	39.91	32.06	6.41	27.49	223	211	P	H
CH 110		5459.92	54.36	-19.64	74	43.56	31.72	6.41	27.33	215	137	P	V
5550MHz		5469.04	56.74	-11.46	68.2	45.92	31.74	6.41	27.33	215	137	P	V
		5459.2	45.34	-8.66	54	34.54	31.72	6.41	27.33	215	137	A	V
	*	5550	113.35	-	-	102.58	31.7	6.43	27.36	215	137	P	V
	*	5550	105.53	-	-	94.76	31.7	6.43	27.36	215	137	A	V
		5742.635	51.64	-16.56	68.2	40.63	32.09	6.41	27.49	215	137	P	V

		5416.15	50.88	-23.12	74	40.27	31.56	6.39	27.34	213	204	P	H
		5461.3	49.4	-18.8	68.2	38.6	31.72	6.41	27.33	213	204	P	H
		5459.9	41.09	-12.91	54	30.29	31.72	6.41	27.33	213	204	A	H
	*	5670	113.34	-	-	102.47	31.88	6.43	27.44	213	204	P	H
802.11n	*	5670	105.22	-	-	94.35	31.88	6.43	27.44	213	204	A	H
HT40		5733.815	63.13	-5.07	68.2	52.14	32.07	6.41	27.49	213	204	P	H
CH 134		5443.8	51.51	-22.49	74	40.76	31.68	6.4	27.33	231	155	P	V
5670MHz		5468.65	51.03	-17.17	68.2	40.21	31.74	6.41	27.33	231	155	P	V
		5459.2	41.34	-12.66	54	30.54	31.72	6.41	27.33	231	155	A	V
	*	5670	113.3	-	-	102.43	31.88	6.43	27.44	231	155	P	V
	*	5670	105.41	-	-	94.54	31.88	6.43	27.44	231	155	A	V
		5726.885	64.25	-3.95	68.2	53.27	32.05	6.41	27.48	231	155	P	V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11020	46.87	-27.13	74	52.3	40.32	10.37	56.12	400	0	P	H
		16530	46.07	-22.13	68.2	49.69	39.4	12.42	55.44	400	0	P	H
		18000	55.86	-18.14	74	51.26	48.1	12.97	56.47	400	46	P	H
		18000	45.97	-8.03	54	41.37	48.1	12.97	56.47	400	46	A	H
802.11n													
HT40													
CH 102		11020	47.24	-26.76	74	52.67	40.32	10.37	56.12	100	0	P	V
5510MHz		16530	45.96	-22.24	68.2	49.58	39.4	12.42	55.44	100	0	P	V
		17989	55.62	-18.38	74	51.35	47.79	12.96	56.48	113	341	P	V
		17989	45.77	-8.23	54	41.5	47.79	12.96	56.48	113	341	A	V
		11100	47.11	-26.89	74	52.77	40	10.4	56.06	400	0	P	H
		16650	46.59	-21.61	68.2	50	39.7	12.43	55.54	400	0	P	H
		17978	56.09	-17.91	74	52.14	47.48	12.96	56.49	386	113	P	H
		17978	46.3	-7.7	54	42.35	47.48	12.96	56.49	386	113	A	H
802.11n													
HT40													
CH 110		11100	46.97	-27.03	74	52.63	40	10.4	56.06	100	0	P	V
5550MHz		16650	47.7	-20.5	68.2	51.11	39.7	12.43	55.54	100	0	P	V
		18000	55.52	-18.48	74	50.92	48.1	12.97	56.47	110	248	P	V
		18000	45.7	-8.3	54	41.1	48.1	12.97	56.47	110	248	A	V

		11340	46.14	-27.86	74	51.8	39.74	10.5	55.9	400	0	P	H
		17010	47.31	-20.89	68.2	50.53	40.16	12.47	55.85	400	0	P	H
		17978	55.48	-18.52	74	51.53	47.48	12.96	56.49	400	77	P	H
		17978	45.53	-8.47	54	41.58	47.48	12.96	56.49	400	77	A	H
802.11n													
HT40													
CH 134		11340	45.95	-28.05	74	51.61	39.74	10.5	55.9	100	0	P	V
5670MHz		17010	47.31	-20.89	68.2	50.53	40.16	12.47	55.85	100	0	P	V
		17978	56.36	-17.64	74	52.41	47.48	12.96	56.49	100	112	P	V
		17978	46.47	-7.53	54	42.52	47.48	12.96	56.49	100	112	A	V

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

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+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 106 5530MHz		5455.36	57.86	-16.14	74	47.07	31.71	6.41	27.33	224	210	P	H
		5461.84	60	-8.2	68.2	49.2	31.72	6.41	27.33	224	210	P	H
		5456.56	48.1	-5.9	54	37.31	31.71	6.41	27.33	224	210	A	H
	*	5530	104.98	-	-	94.15	31.74	6.43	27.34	224	210	P	H
	*	5530	96.83	-	-	86	31.74	6.43	27.34	224	210	A	H
		5739.485	50.99	-17.21	68.2	39.99	32.08	6.41	27.49	224	210	P	H
		5458.96	60.61	-13.39	74	49.81	31.72	6.41	27.33	206	154	P	V
		5469.76	63	-5.2	68.2	52.18	31.74	6.41	27.33	206	154	P	V
		5458.96	50.31	-3.69	54	39.51	31.72	6.41	27.33	206	154	A	V
	*	5530	106.3	-	-	95.47	31.74	6.43	27.34	206	154	P	V
	*	5530	97.95	-	-	87.12	31.74	6.43	27.34	206	154	A	V
		5726.57	50.74	-17.46	68.2	39.76	32.05	6.41	27.48	206	154	P	V
802.11ac VHT80 CH 122 5610MHz		5450.45	55.72	-18.28	74	44.94	31.7	6.41	27.33	212	210	P	H
		5466.2	55.61	-12.59	68.2	44.8	31.73	6.41	27.33	212	210	P	H
		5456.05	44.76	-9.24	54	33.97	31.71	6.41	27.33	212	210	A	H
	*	5610	110.08	-	-	99.15	31.88	6.45	27.4	212	210	P	H
	*	5610	101.76	-	-	90.83	31.88	6.45	27.4	212	210	A	H
		5726.255	59.71	-8.49	68.2	48.73	32.05	6.41	27.48	212	210	P	H
		5459.9	57.03	-16.97	74	46.23	31.72	6.41	27.33	212	156	P	V
		5463.75	57.83	-10.37	68.2	47.02	31.73	6.41	27.33	212	156	P	V
		5459.2	46.7	-7.3	54	35.9	31.72	6.41	27.33	212	156	A	V
	*	5610	110.75	-	-	99.82	31.88	6.45	27.4	212	156	P	V
	*	5610	102.64	-	-	91.71	31.88	6.45	27.4	212	156	A	V
		5725	58.53	-9.67	68.2	47.55	32.05	6.41	27.48	212	156	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11060	47.77	-26.23	74	53.31	40.16	10.39	56.09	100	0	P	H
		16590	45.76	-22.44	68.2	49.43	39.4	12.42	55.49	100	0	P	H
		17956	53.61	-20.39	74	50.3	46.87	12.94	56.5	128	147	P	H
		17956	46.92	-7.08	54	43.61	46.87	12.94	56.5	128	147	A	H
802.11ac													
VHT80													
CH 106		11060	47.91	-26.09	74	53.45	40.16	10.39	56.09	100	0	P	V
5530MHz		16590	46.99	-21.21	68.2	50.66	39.4	12.42	55.49	100	0	P	V
		17956	53.78	-20.22	74	50.47	46.87	12.94	56.5	152	207	P	V
		17956	46.72	-7.28	54	43.41	46.87	12.94	56.5	152	207	A	V
		11220	46.62	-27.38	74	52.37	39.78	10.45	55.98	100	0	P	H
		16830	46.39	-21.81	68.2	49.46	40.17	12.45	55.69	100	0	P	H
		17967	54.96	-19.04	74	51.33	47.18	12.95	56.5	162	203	P	H
		17967	47.22	-6.78	54	43.59	47.18	12.95	56.5	162	203	A	H
802.11ac													
VHT80													
CH 122		11220	46.82	-27.18	74	52.57	39.78	10.45	55.98	100	0	P	V
5610MHz		16830	46.41	-21.79	68.2	49.48	40.17	12.45	55.69	100	0	P	V
		17978	54.46	-19.54	74	50.51	47.48	12.96	56.49	142	277	P	V
		17978	47.33	-6.67	54	43.38	47.48	12.96	56.49	142	277	A	V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+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 144 5720MHz		5433.46	50.3	-23.7	74	39.61	31.63	6.4	27.34	221	210	P	H
		5462.71	49.51	-18.69	68.2	38.7	31.73	6.41	27.33	221	210	P	H
		5459.98	40.97	-13.03	54	30.17	31.72	6.41	27.33	221	210	A	H
	*	5720	116.67	-	-	105.7	32.04	6.41	27.48	221	210	P	H
	*	5720	109.61	-	-	98.64	32.04	6.41	27.48	221	210	A	H
		5862.5	52.97	-15.23	68.2	41.76	32.35	6.44	27.58	221	210	P	H
		5420.59	50.02	-23.98	74	39.38	31.58	6.4	27.34	216	153	P	V
		5464.66	49.75	-18.45	68.2	38.94	31.73	6.41	27.33	216	153	P	V
		5459.98	41	-13	54	30.2	31.72	6.41	27.33	216	153	A	V
	*	5720	116.91	-	-	105.94	32.04	6.41	27.48	216	153	P	V
	*	5720	109.74	-	-	98.77	32.04	6.41	27.48	216	153	A	V
		5893.75	51.47	-16.73	68.2	40.13	32.47	6.47	27.6	216	153	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+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 144 5720MHz		11440	46.92	-27.08	74	52.3	39.92	10.53	55.83	400	0	P	H
		17160	48.29	-19.91	68.2	52.05	39.86	12.54	56.16	400	0	P	H
		17989	55.34	-18.66	74	51.07	47.79	12.96	56.48	387	311	P	H
		17989	45.77	-8.23	54	41.5	47.79	12.96	56.48	387	311	A	H
		11440	45.96	-28.04	74	51.34	39.92	10.53	55.83	100	0	P	V
		17160	47.77	-20.43	68.2	51.53	39.86	12.54	56.16	100	0	P	V
		17989	55.97	-18.03	74	51.7	47.79	12.96	56.48	135	255	P	V
		17989	46.03	-7.97	54	41.76	47.79	12.96	56.48	135	255	A	V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+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 CH 144 5720MHz		5429.95	49.51	-24.49	74	38.83	31.62	6.4	27.34	223	213	P	H
		5460.37	50.91	-17.29	68.2	40.11	31.72	6.41	27.33	223	213	P	H
		5459.59	40.99	-13.01	54	30.19	31.72	6.41	27.33	223	213	A	H
	*	5720	116.1	-	-	105.13	32.04	6.41	27.48	223	213	P	H
	*	5720	108.45	-	-	97.48	32.04	6.41	27.48	223	213	A	H
		5873.25	51.99	-16.21	68.2	40.74	32.39	6.45	27.59	223	213	P	H
		5437.75	50.9	-23.1	74	40.19	31.65	6.4	27.34	219	156	P	V
		5466.22	49.17	-19.03	68.2	38.36	31.73	6.41	27.33	219	156	P	V
		5459.59	41	-13	54	30.2	31.72	6.41	27.33	219	156	A	V
	*	5720	115.16	-	-	104.19	32.04	6.41	27.48	219	156	P	V
	*	5720	108.08	-	-	97.11	32.04	6.41	27.48	219	156	A	V
		5941.25	51.94	-16.26	68.2	40.4	32.67	6.51	27.64	219	156	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11440	46.48	-27.52	74	51.86	39.92	10.53	55.83	400	0	P	H
		17160	47.95	-20.25	68.2	51.71	39.86	12.54	56.16	400	0	P	H
		17956	55.77	-18.23	74	52.46	46.87	12.94	56.5	393	244	P	H
		17956	45.83	-8.17	54	42.52	46.87	12.94	56.5	393	244	A	H
802.11n													
HT20													
CH 144		11440	47.9	-26.1	74	53.28	39.92	10.53	55.83	100	0	P	V
5720MHz		17160	48.39	-19.81	68.2	52.15	39.86	12.54	56.16	100	0	P	V
		17989	55.34	-18.66	74	51.07	47.79	12.96	56.48	131	249	P	V
		17989	45.68	-8.32	54	41.41	47.79	12.96	56.48	131	249	A	V

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

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+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 142 5710MHz		5398.36	50.53	-23.47	74	40	31.49	6.39	27.35	222	211	P	H
		5461.15	49.05	-19.15	68.2	38.25	31.72	6.41	27.33	222	211	P	H
		5459.2	41.08	-12.92	54	30.28	31.72	6.41	27.33	222	211	A	H
	*	5710	113.41	-	-	102.44	32.02	6.42	27.47	222	211	P	H
	*	5710	105.78	-	-	94.81	32.02	6.42	27.47	222	211	A	H
		5856	52.19	-16.01	68.2	41.01	32.32	6.44	27.58	222	211	P	H
		5454.91	50.65	-23.35	74	39.86	31.71	6.41	27.33	215	152	P	V
		5461.15	49.48	-18.72	68.2	38.68	31.72	6.41	27.33	215	152	P	V
		5459.2	41.2	-12.8	54	30.4	31.72	6.41	27.33	215	152	A	V
	*	5710	113.05	-	-	102.08	32.02	6.42	27.47	215	152	P	V
	*	5710	105.25	-	-	94.28	32.02	6.42	27.47	215	152	A	V
		5900.25	51.47	-16.73	68.2	40.1	32.5	6.48	27.61	215	152	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11420	45.89	-28.11	74	51.34	39.86	10.53	55.84	100	0	P	H
		17130	45.83	-22.37	68.2	49.57	39.83	12.53	56.1	100	0	P	H
		17967	53.77	-20.23	74	50.14	47.18	12.95	56.5	152	255	P	H
		17967	46.99	-7.01	54	43.36	47.18	12.95	56.5	152	255	A	H
802.11n													
HT40													
CH 142		11420	47.2	-26.8	74	52.65	39.86	10.53	55.84	100	0	P	V
5710MHz		17130	47.3	-20.9	68.2	51.04	39.83	12.53	56.1	100	0	P	V
		17956	54.41	-19.59	74	51.1	46.87	12.94	56.5	117	203	P	V
		17956	46.59	-7.41	54	43.28	46.87	12.94	56.5	117	203	A	V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+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 138 5690MHz		5409.28	49.54	-24.46	74	38.95	31.54	6.39	27.34	224	212	P	H
		5461.93	50.54	-17.66	68.2	39.74	31.72	6.41	27.33	224	212	P	H
		5456.86	41.3	-12.7	54	30.51	31.71	6.41	27.33	224	212	A	H
	*	5690	109.94	-	-	99.02	31.96	6.42	27.46	224	212	P	H
	*	5690	102.25	-	-	91.33	31.96	6.42	27.46	224	212	A	H
		5851.3	52.34	-15.86	68.2	41.17	32.31	6.43	27.57	224	212	P	H
		5434.63	50.79	-23.21	74	40.09	31.64	6.4	27.34	217	153	P	V
		5460.76	50.52	-17.68	68.2	39.72	31.72	6.41	27.33	217	153	P	V
		5459.59	41.41	-12.59	54	30.61	31.72	6.41	27.33	217	153	A	V
	*	5690	110.54	-	-	99.62	31.96	6.42	27.46	217	153	P	V
	*	5690	102.3	-	-	91.38	31.96	6.42	27.46	217	153	A	V
		5863.3	52.1	-16.1	68.2	40.89	32.35	6.44	27.58	217	153	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+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)
		11380	46.13	-27.87	74	51.7	39.78	10.52	55.87	100	0	P	H
		17070	46.85	-21.35	68.2	50.4	39.92	12.5	55.97	100	0	P	H
		17978	55.41	-18.59	74	51.46	47.48	12.96	56.49	147	225	P	H
		17978	47.43	-6.57	54	43.48	47.48	12.96	56.49	147	225	A	H
802.11ac													
VHT80													
CH 138		11380	47.42	-26.58	74	52.99	39.78	10.52	55.87	100	0	P	V
5690MHz		17070	47.37	-20.83	68.2	50.92	39.92	12.5	55.97	100	0	P	V
		17978	54.95	-19.05	74	51	47.48	12.96	56.49	165	297	P	V
		17978	47.33	-6.67	54	43.38	47.48	12.96	56.49	165	297	A	V

Remark

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

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		35864	44.33	-23.87	68.2	40.64	42.52	17.62	56.45	150	0	P	H
		38020	47.52	-20.68	68.2	41.48	43.14	18.98	56.08	150	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		35226	43.01	-25.19	68.2	39.44	42.41	17.41	56.25	150	0	P	V
SHF		37470	46.69	-21.51	68.2	42.04	42.71	18.66	56.72	150	0	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		117.3	37.06	-6.44	43.5	50.85	17.43	1.02	32.24	100	0	P	H
		163.86	23.4	-20.1	43.5	38.16	16.29	1.21	32.26	-	-	P	H
		419.94	26.26	-19.74	46	33.32	22.76	1.8	31.62	-	-	P	H
		756.53	30.16	-15.84	46	31.29	28.04	2.48	31.65	-	-	P	H
		870.02	31.45	-14.55	46	30.96	28.96	2.66	31.13	-	-	P	H
		947.62	33.12	-12.88	46	30.73	30.39	2.8	30.8	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		44.55	35.49	-4.51	40	49.91	17.21	0.64	32.27	100	159	Q	V
LF		86.26	27.63	-12.37	40	44.73	14.28	0.87	32.25	-	-	P	V
		122.15	31.48	-12.02	43.5	45.09	17.59	1.04	32.24	-	-	P	V
		165.8	26.77	-16.73	43.5	41.72	16.09	1.22	32.26	-	-	P	V
		480.08	29.48	-16.52	46	35.77	23.64	1.94	31.87	-	-	P	V
		951.5	32.6	-13.4	46	30.01	30.57	2.8	30.78	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(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

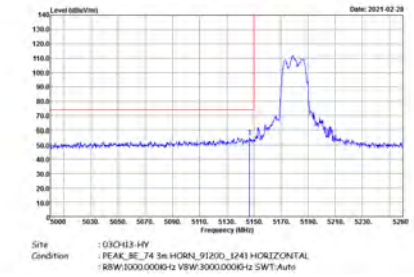
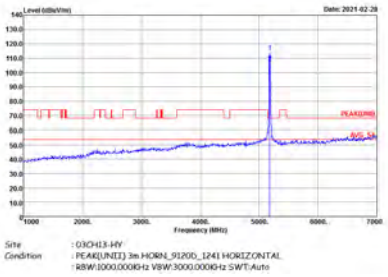
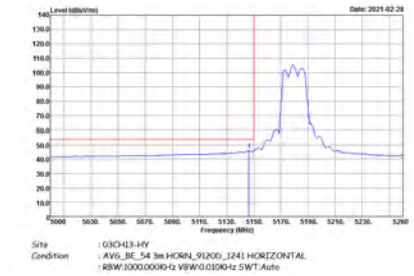
Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

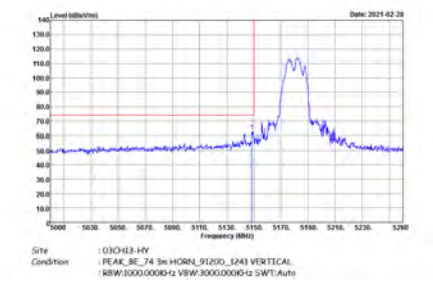
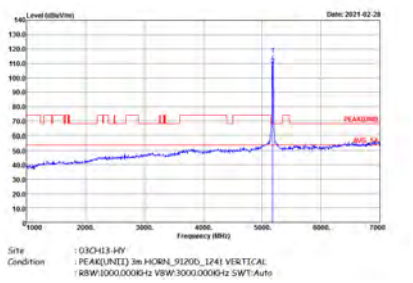
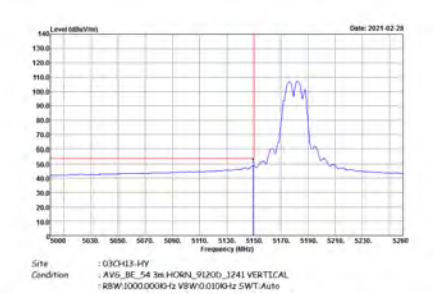
Note symbol

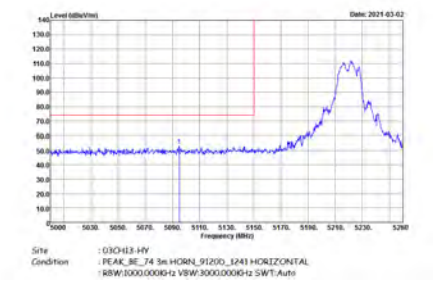
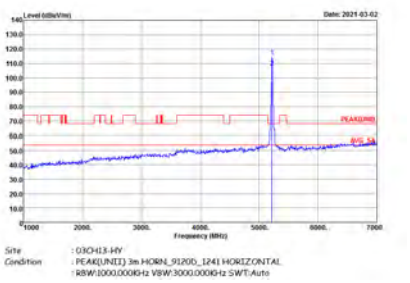
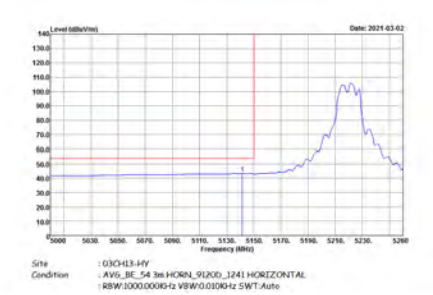
-L	**Low channel location**
-R	**High channel location**

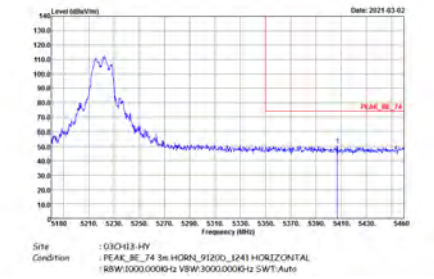
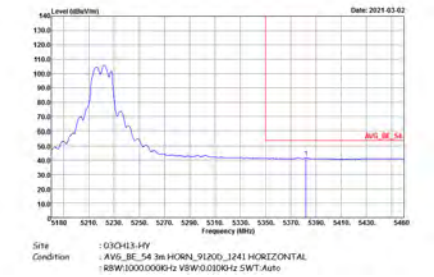
Band 1 - 5150~5250MHz

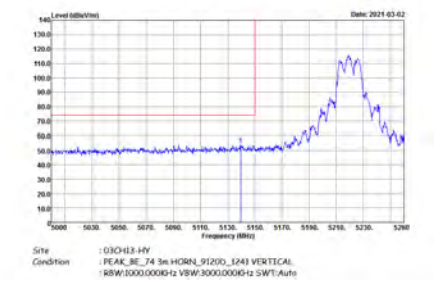
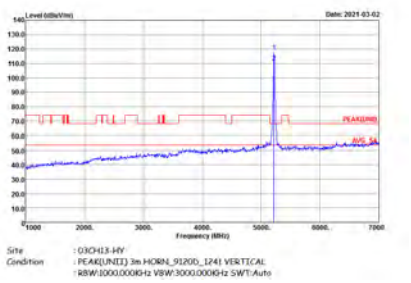
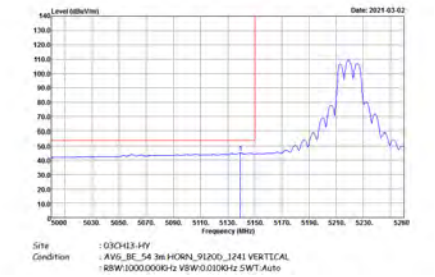
WIFI 802.11a (Band Edge @ 3m)

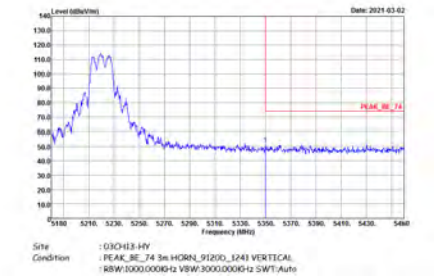
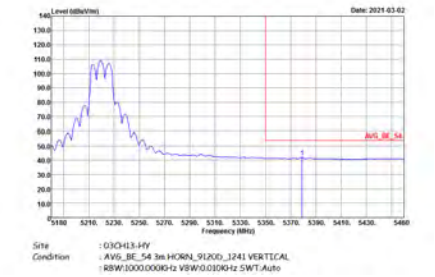
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

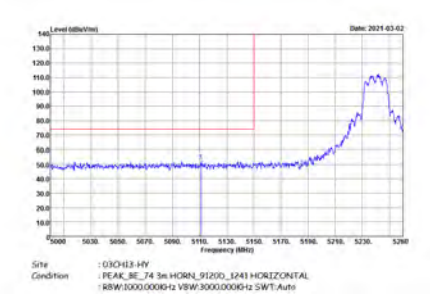
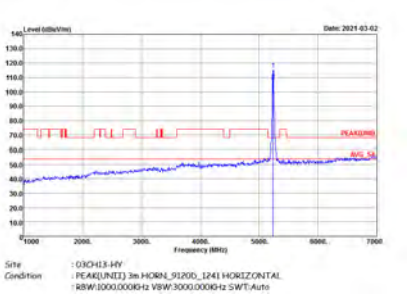
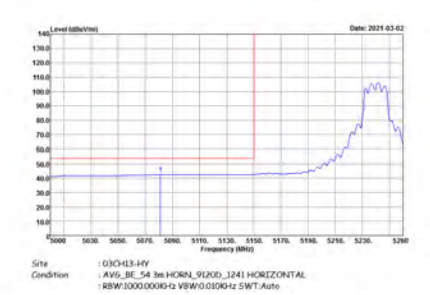
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

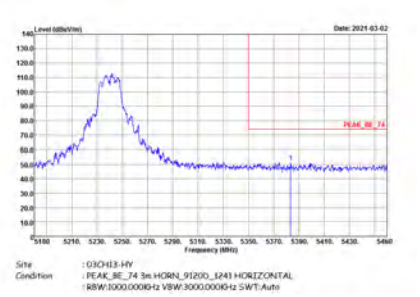
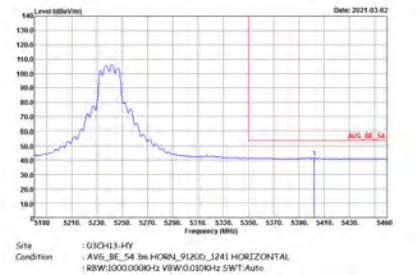
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

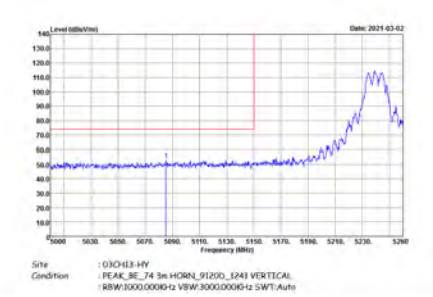
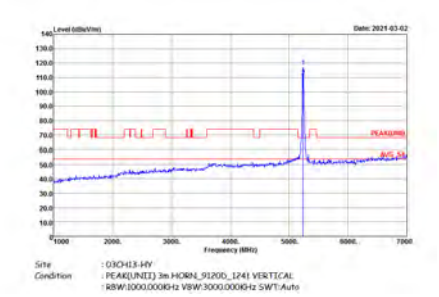
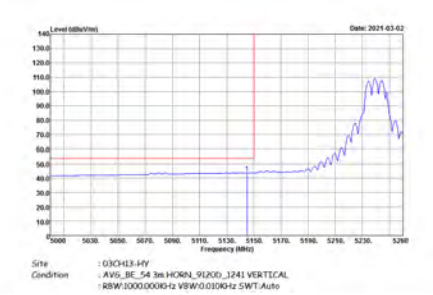
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

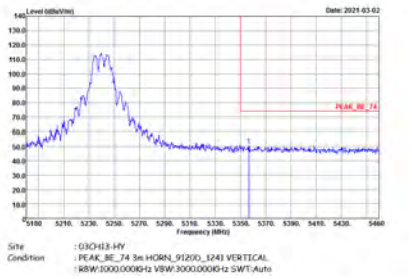
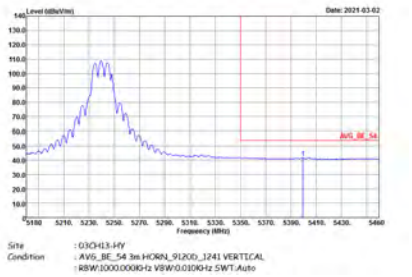
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

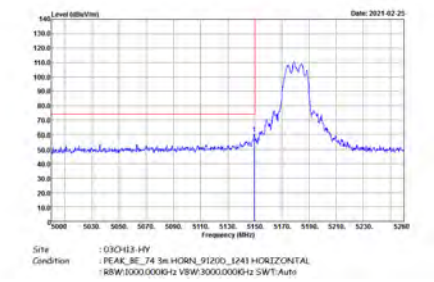
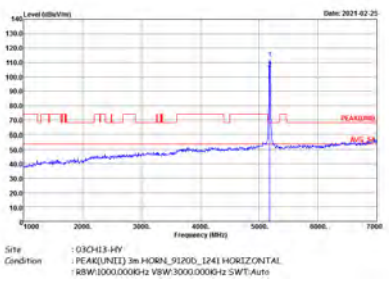
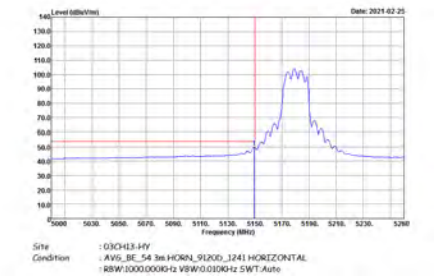
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

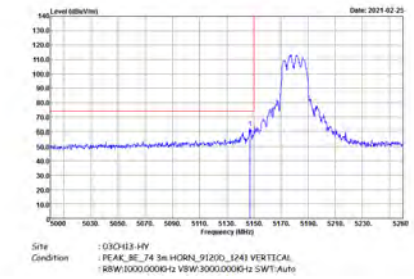
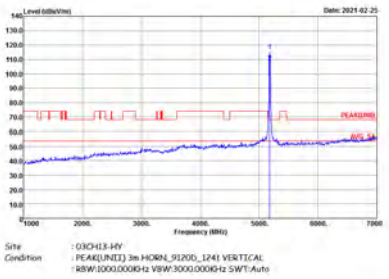
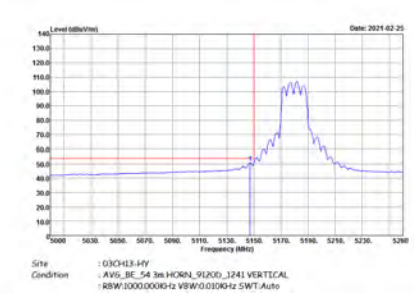
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

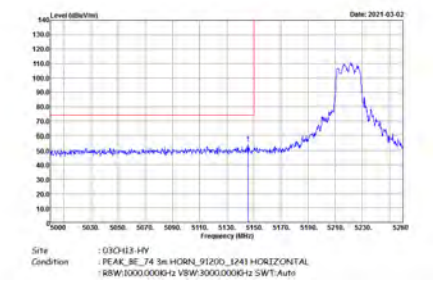
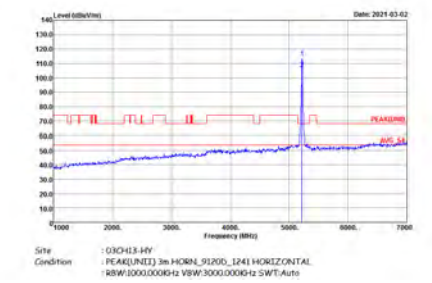
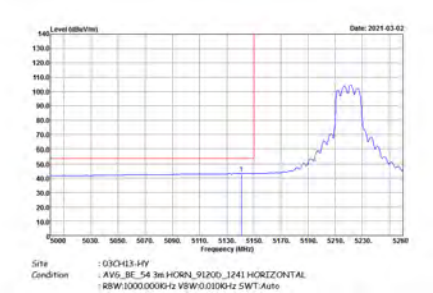
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

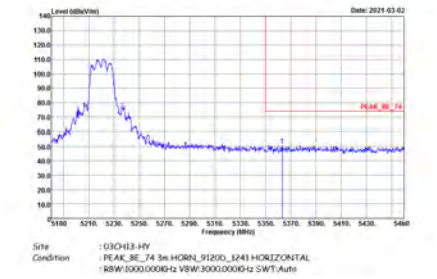
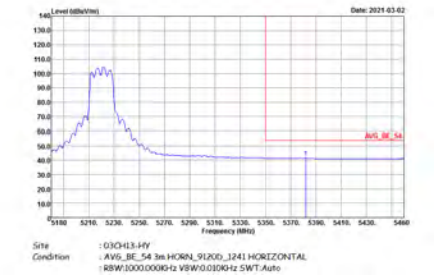
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

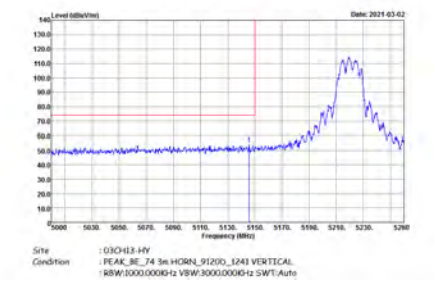
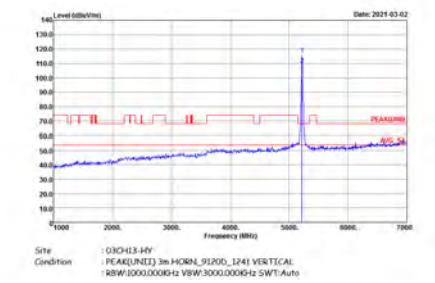
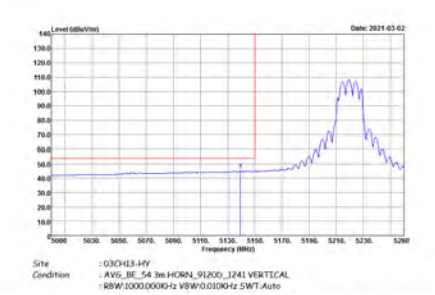
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

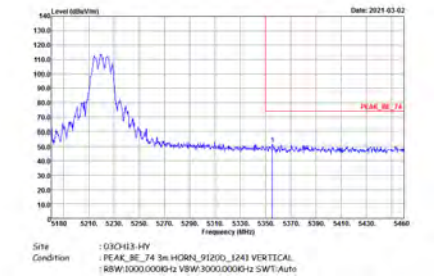
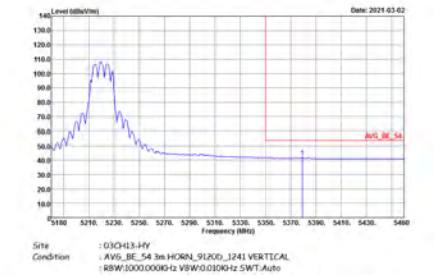
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

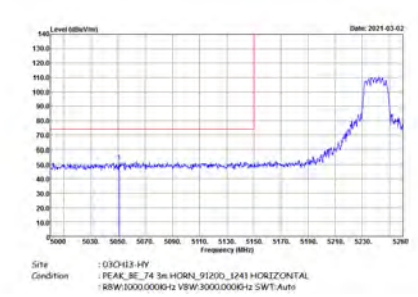
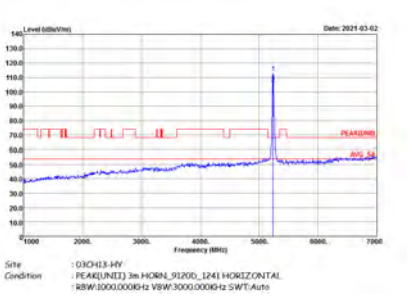
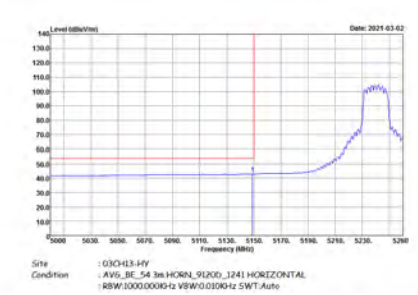
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

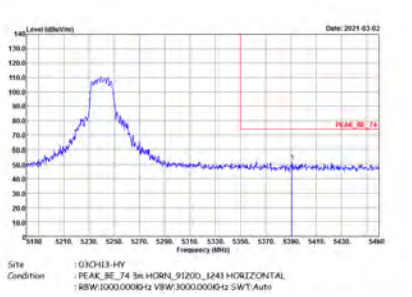
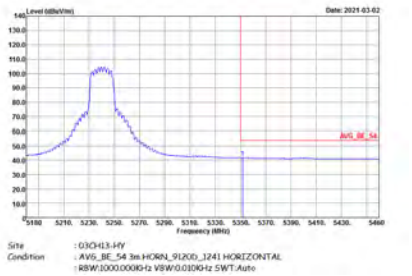
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

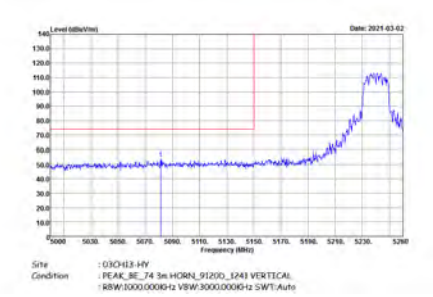
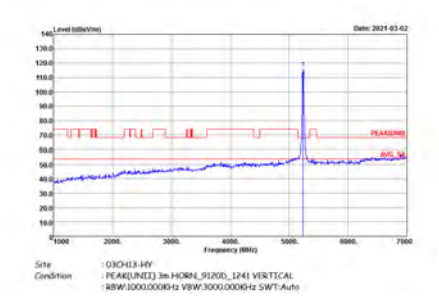
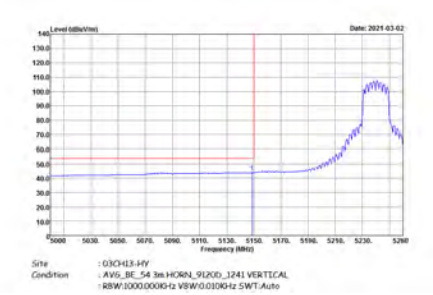
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

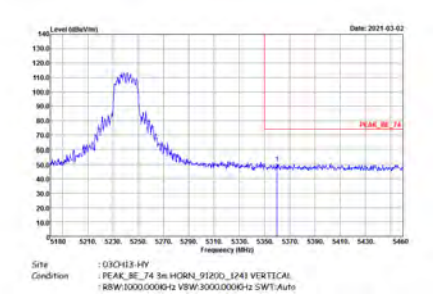
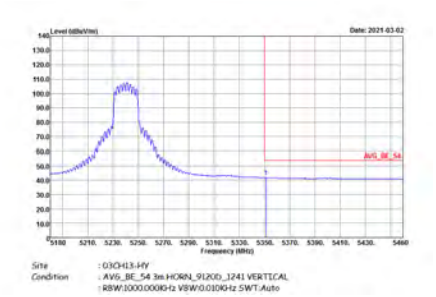
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

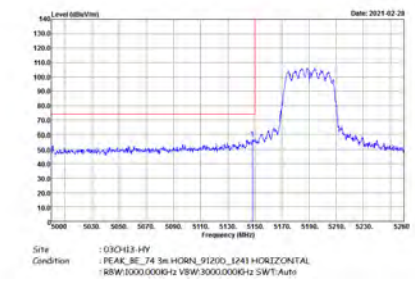
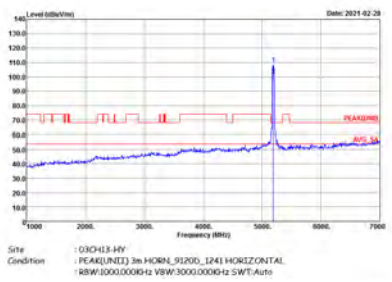
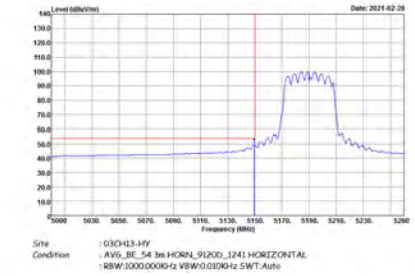
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

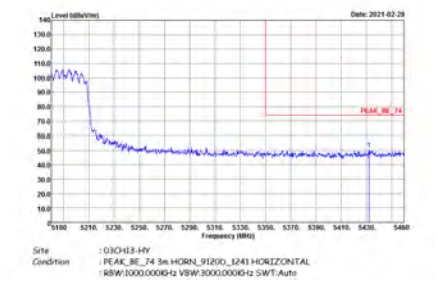
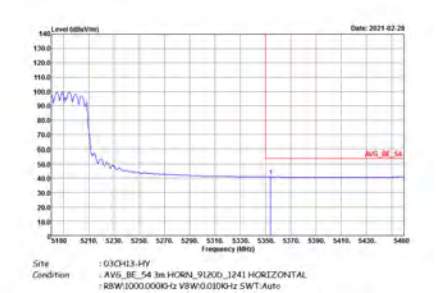
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

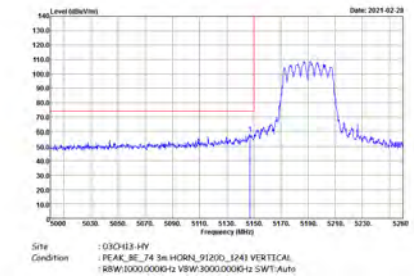
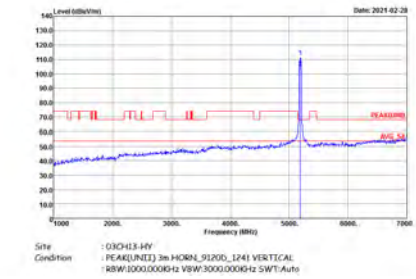
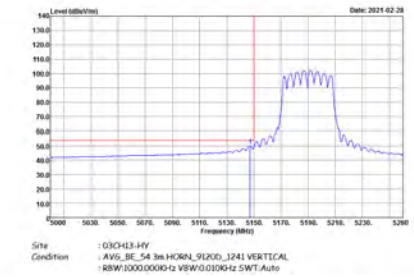
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

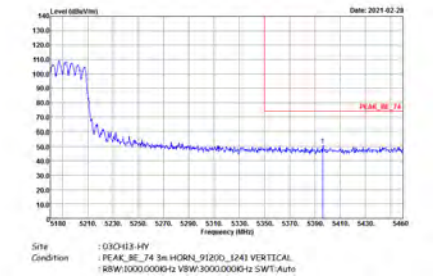
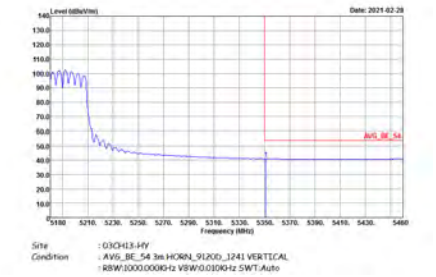
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

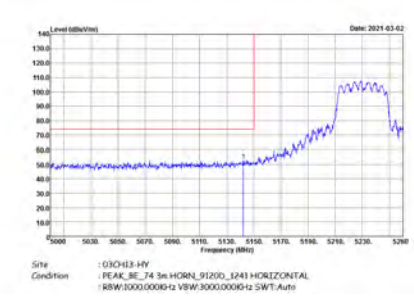
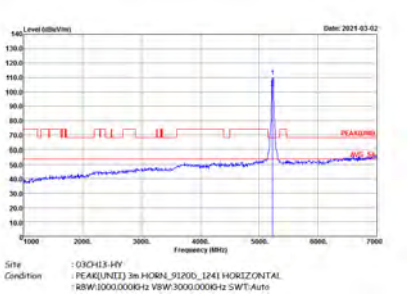
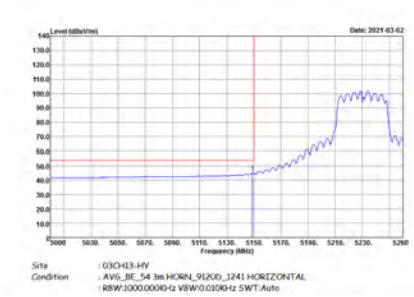
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

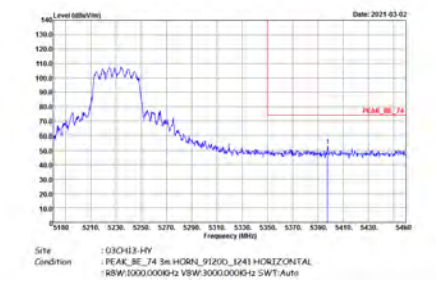
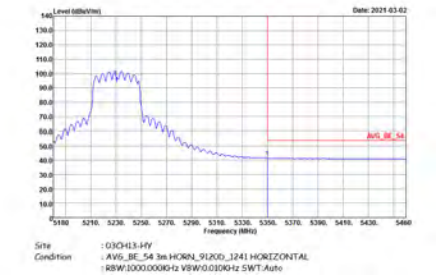
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

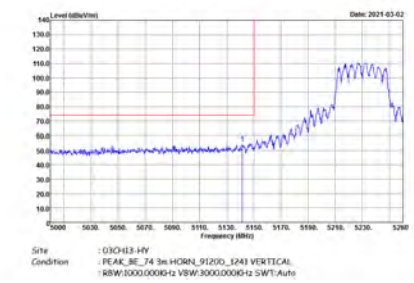
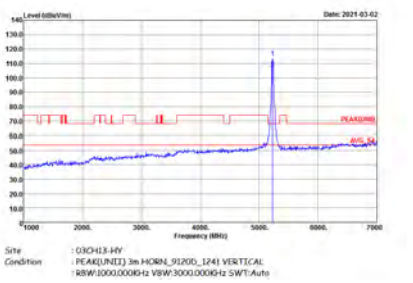
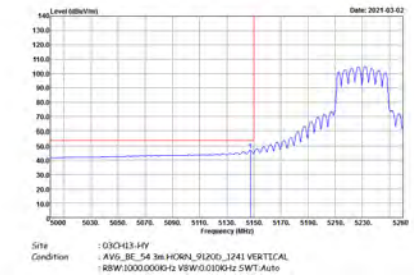
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

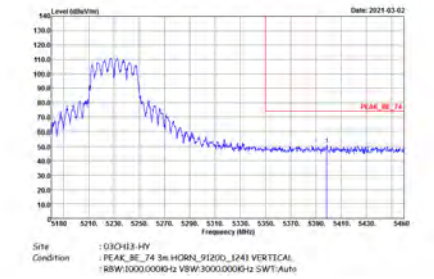
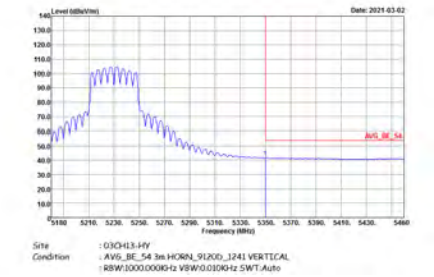
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

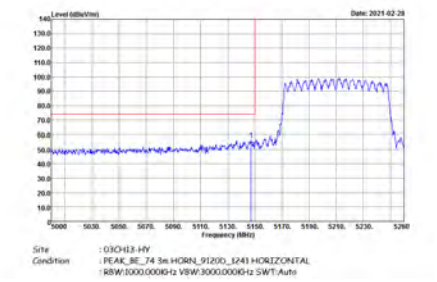
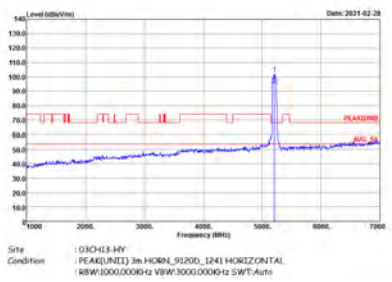
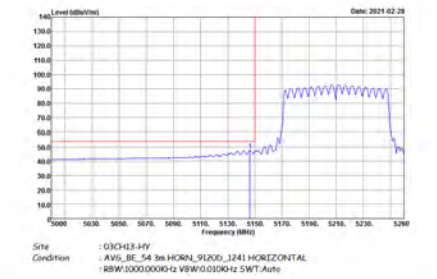
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

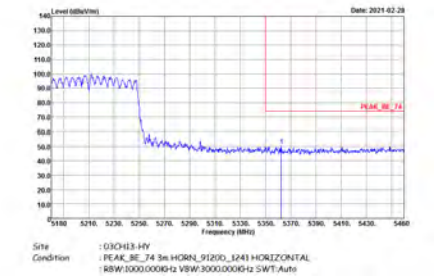
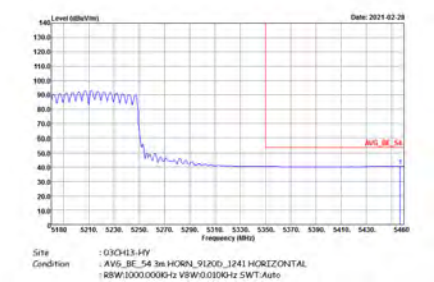
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

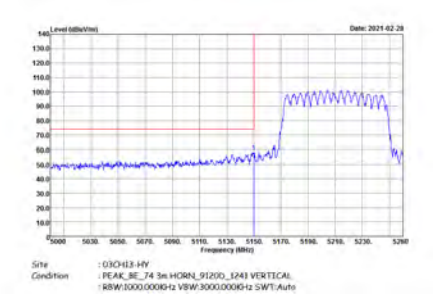
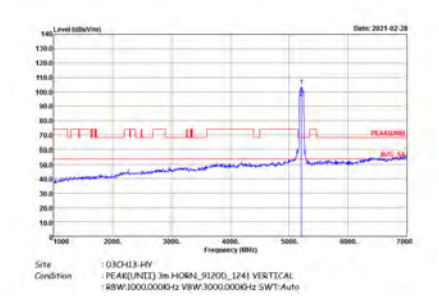
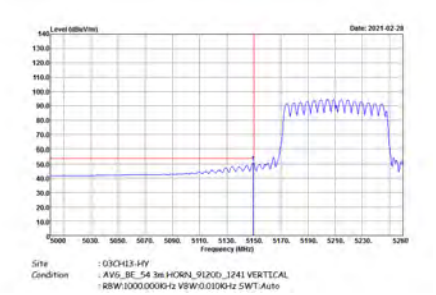
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

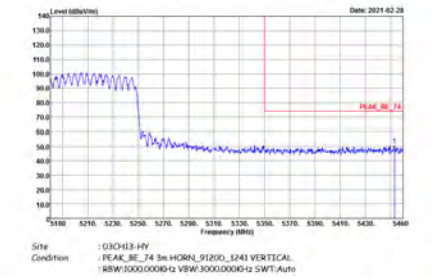
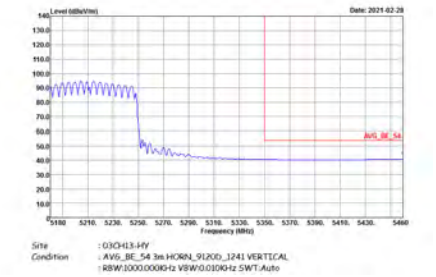
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

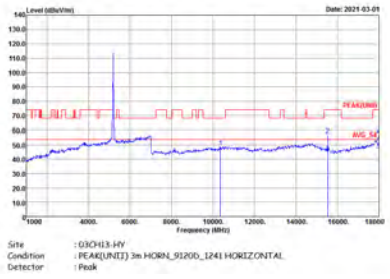
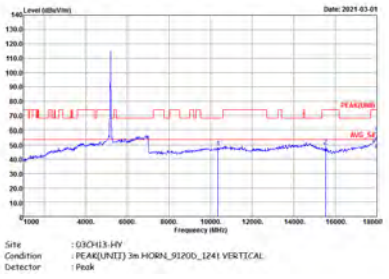
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

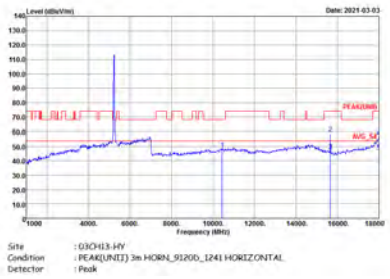
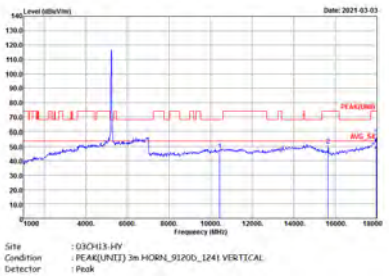
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

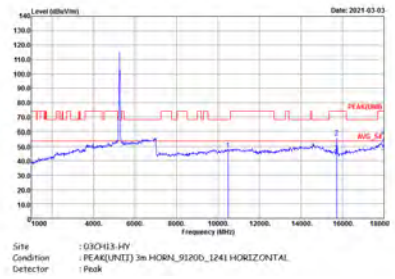
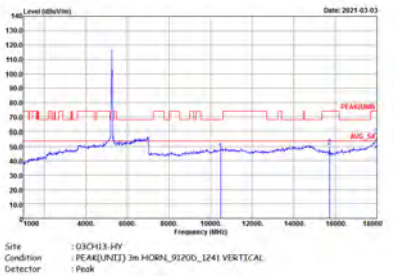
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

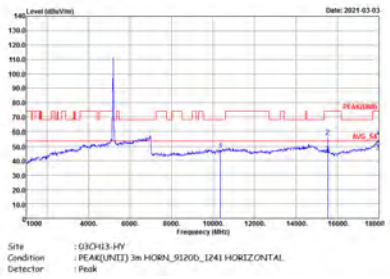
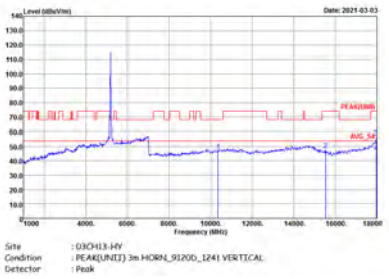
WIFI 802.11a (Harmonic @ 3m)

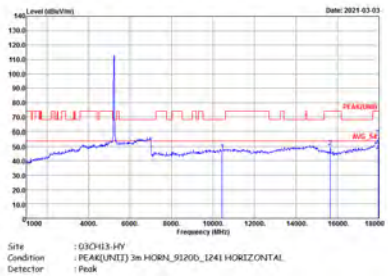
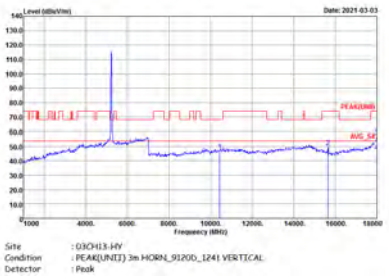
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

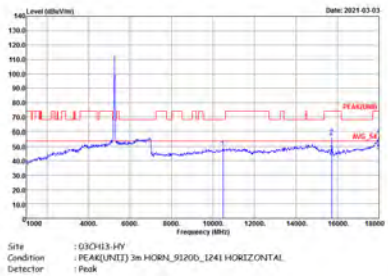
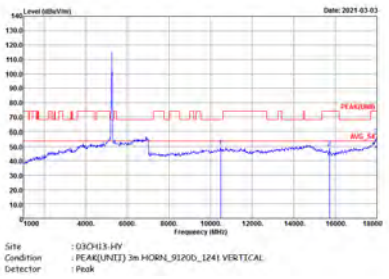
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

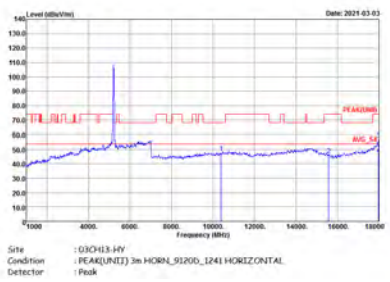
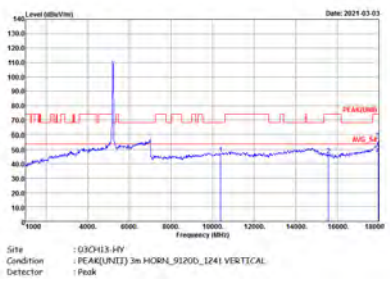
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

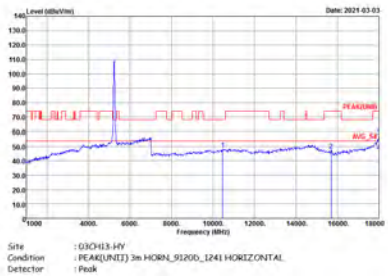
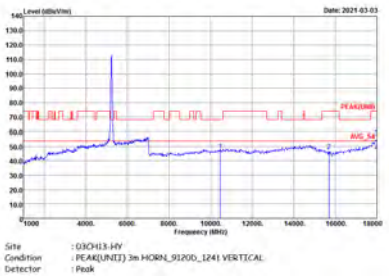
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

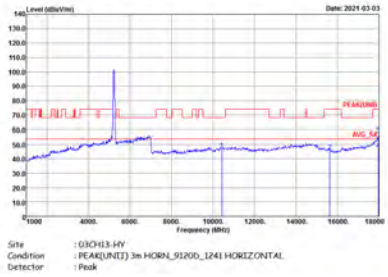
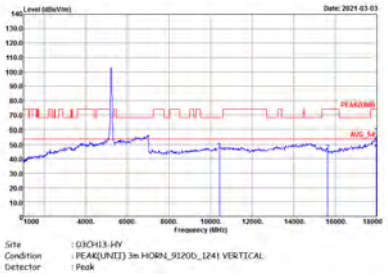
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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

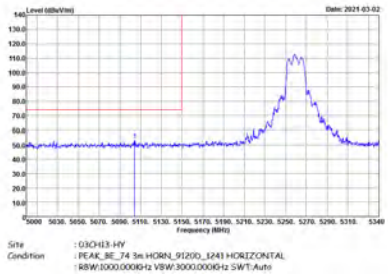
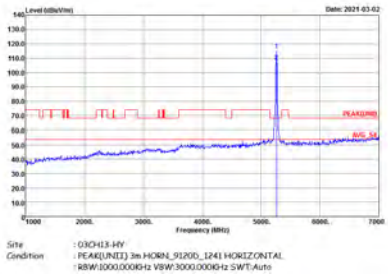
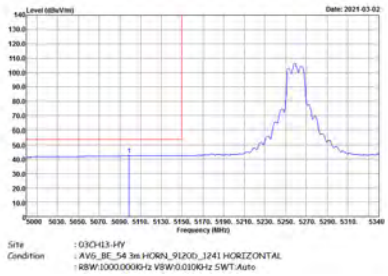
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

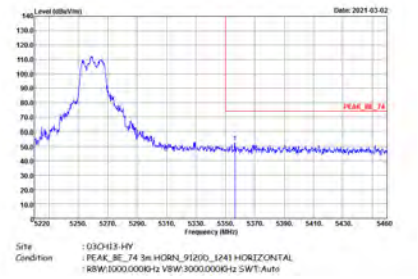
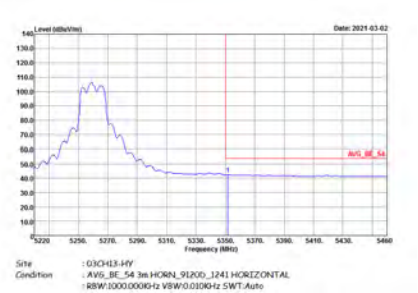
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

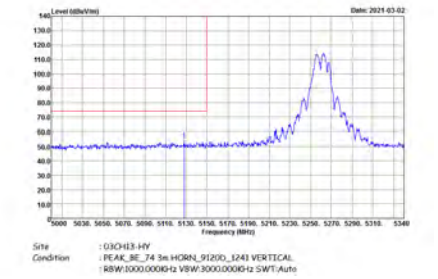
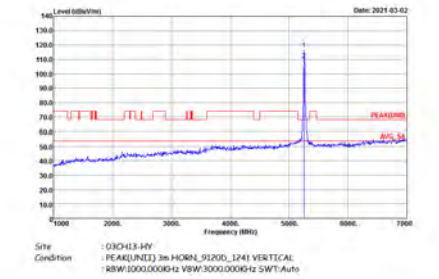
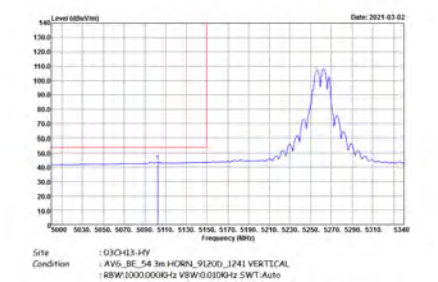
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

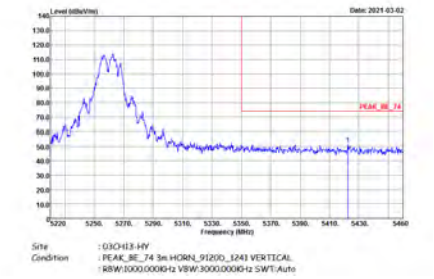
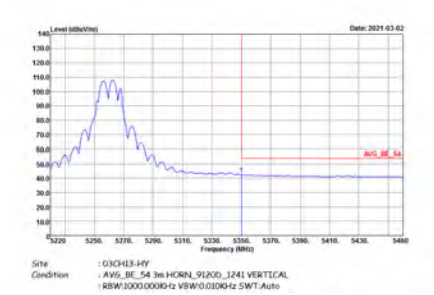
Band 2 - 5250~5350MHz

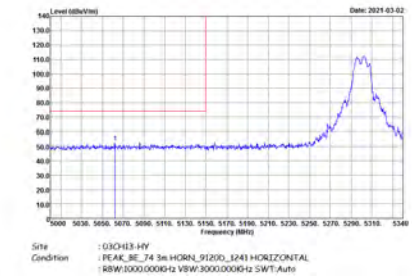
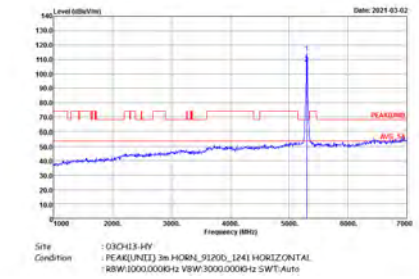
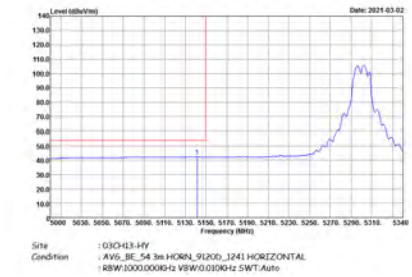
WIFI 802.11a (Band Edge @ 3m)

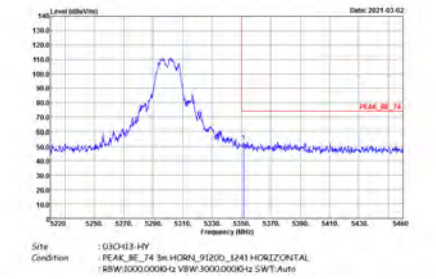
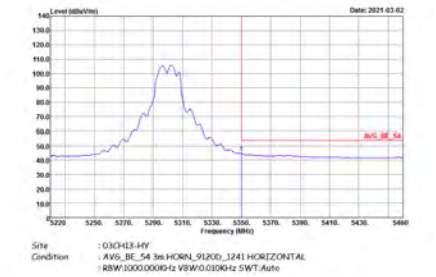
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

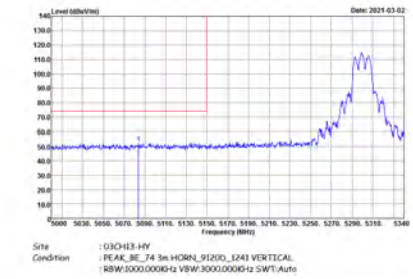
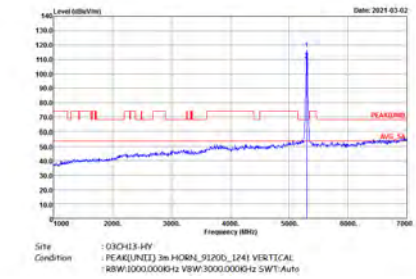
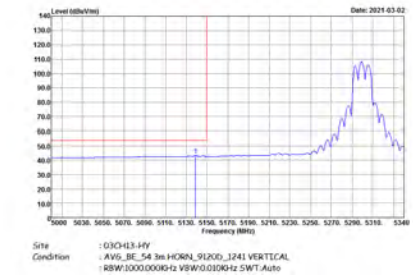
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

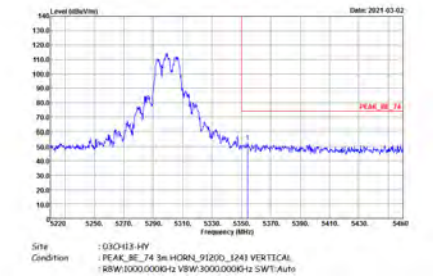
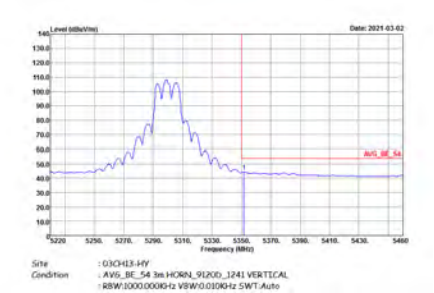
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

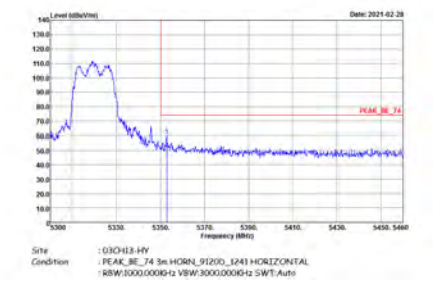
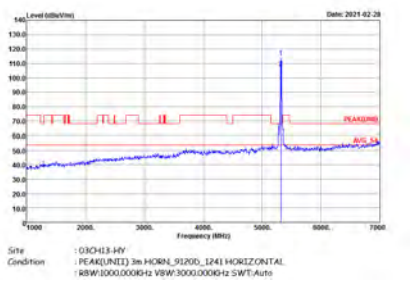
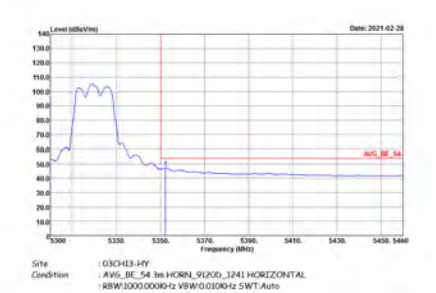
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

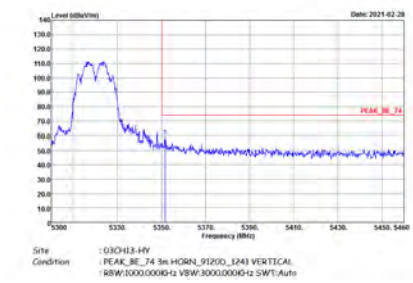
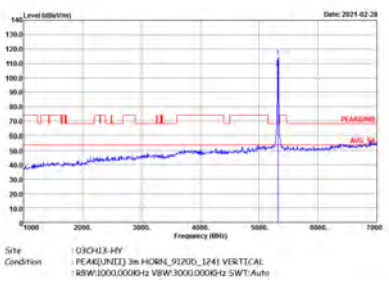
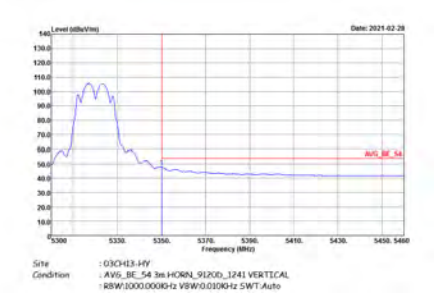
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

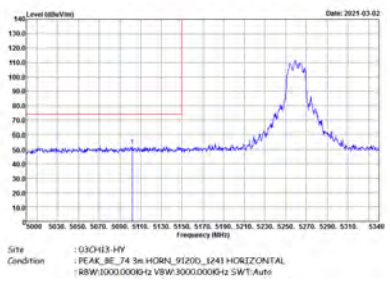
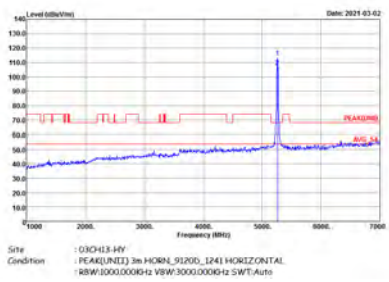
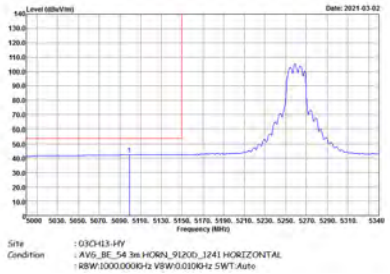
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

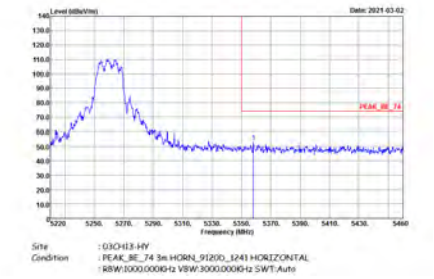
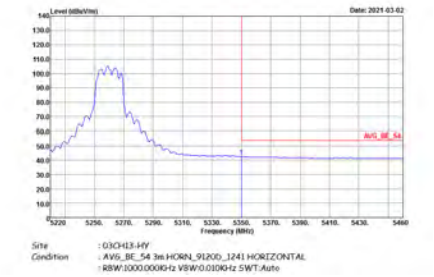
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

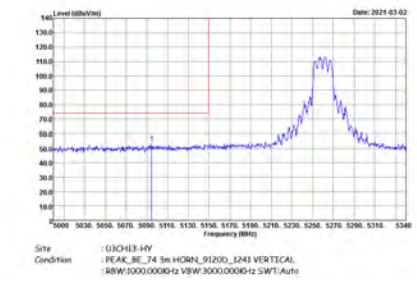
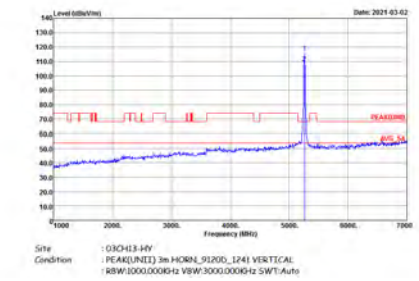
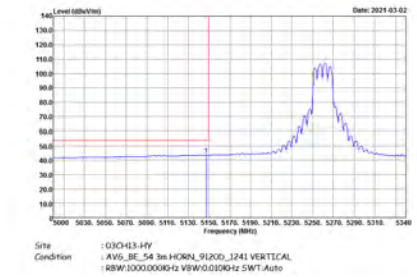
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

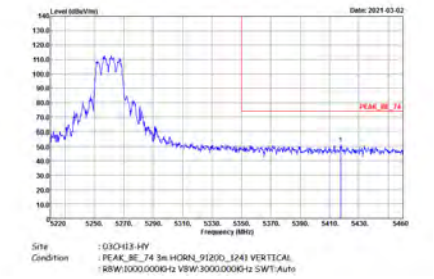
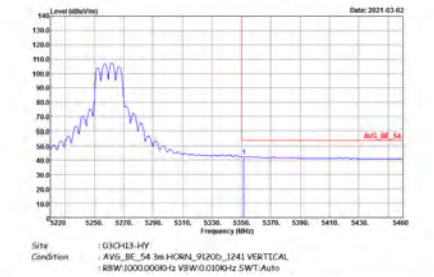
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

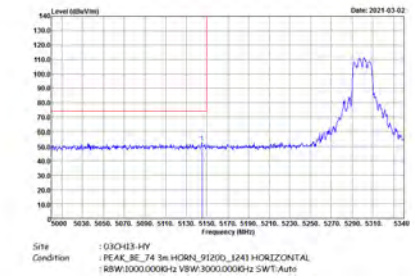
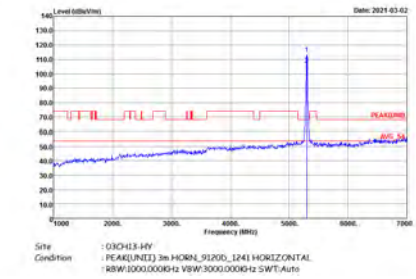
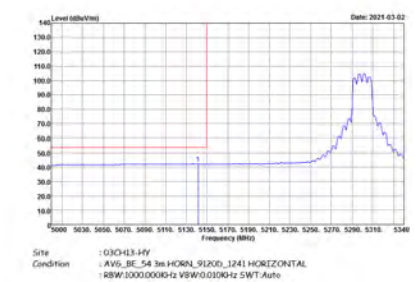
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

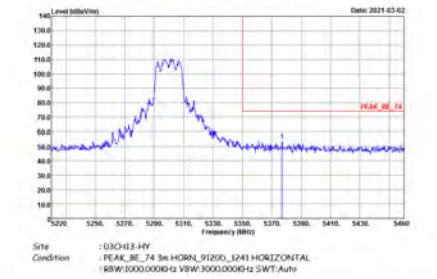
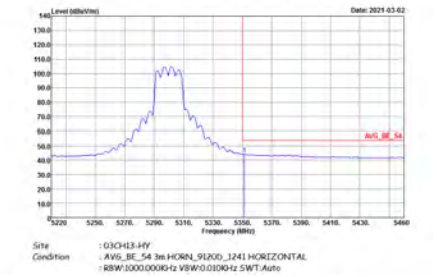
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

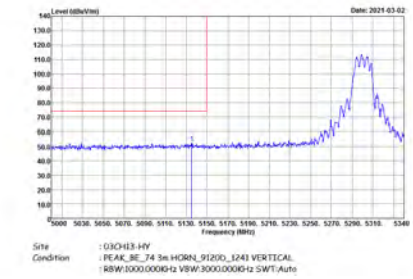
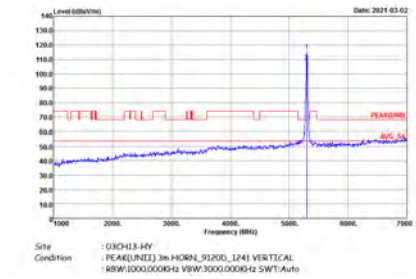
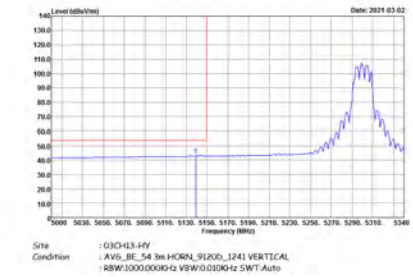
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

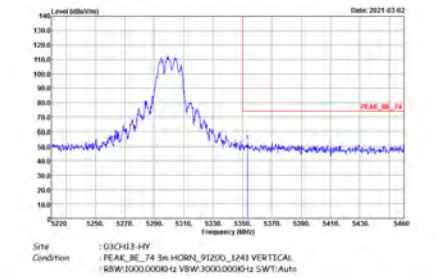
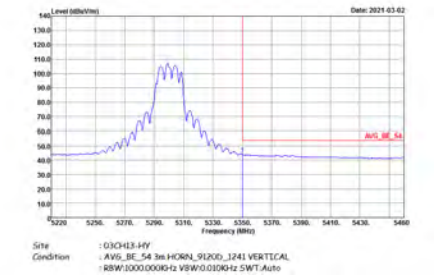
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

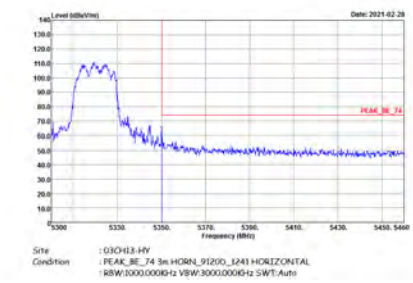
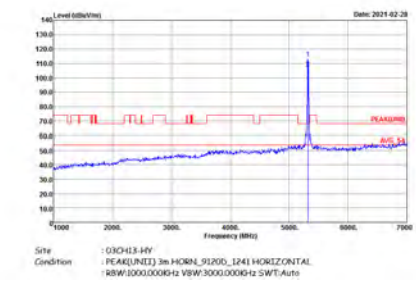
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

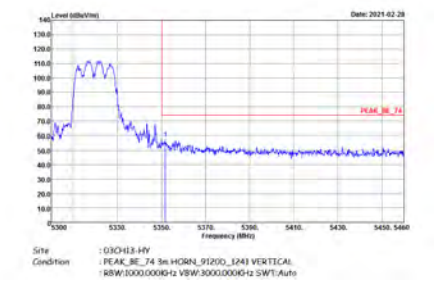
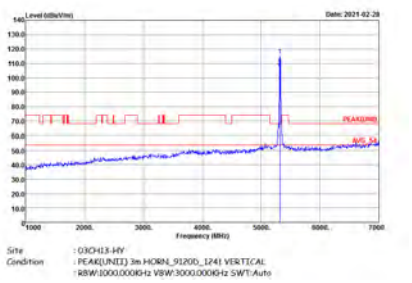
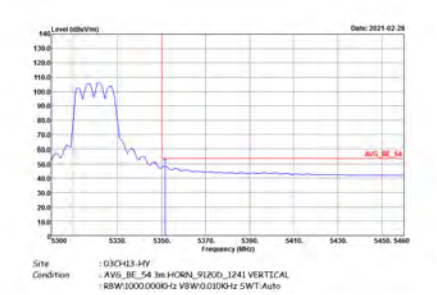
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

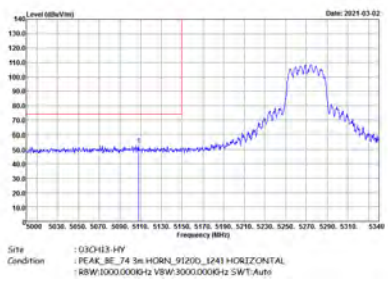
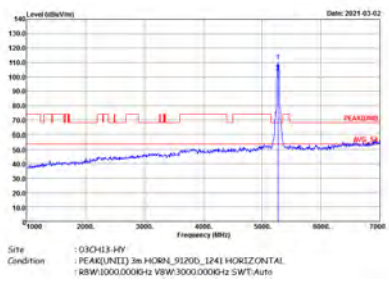
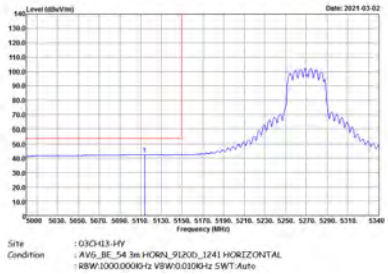
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

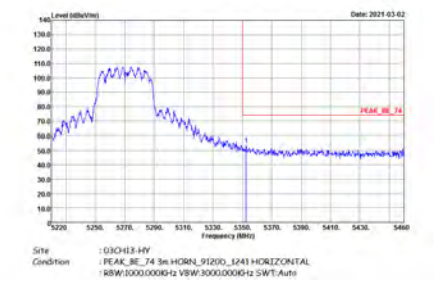
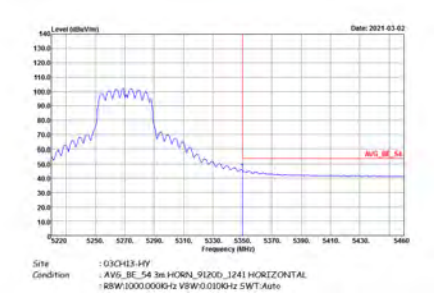
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

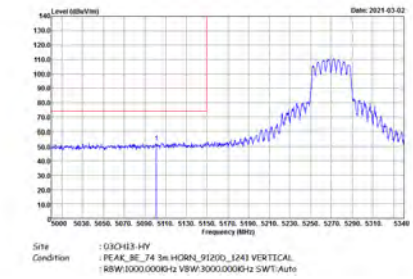
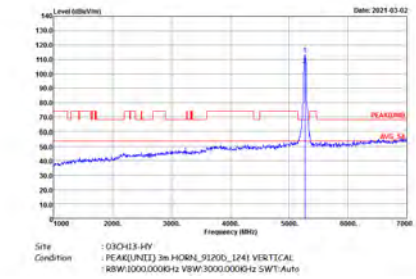
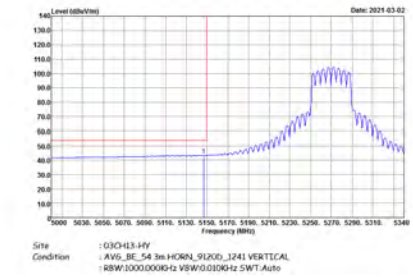
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

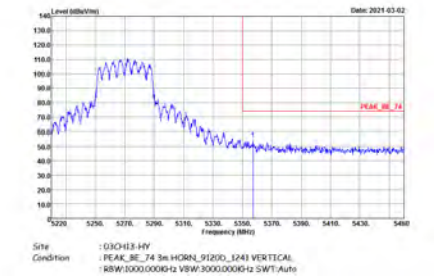
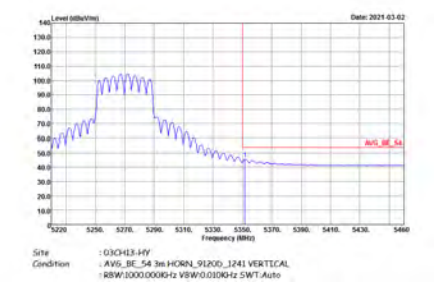
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

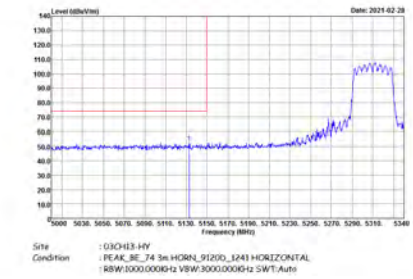
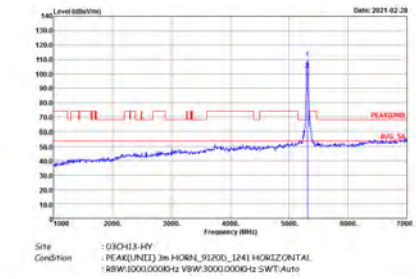
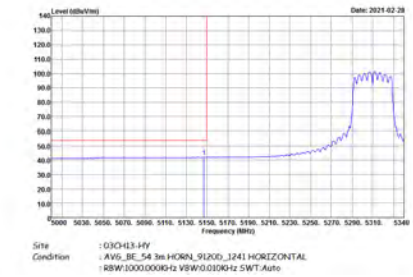
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

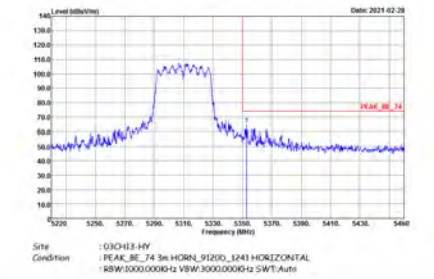
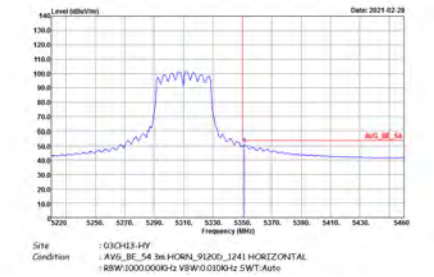
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

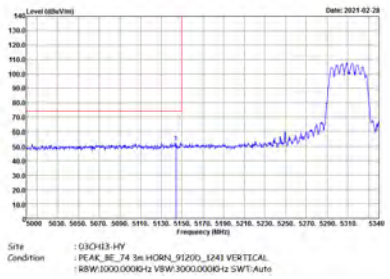
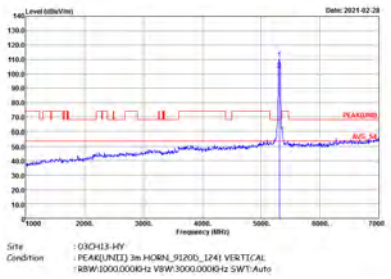
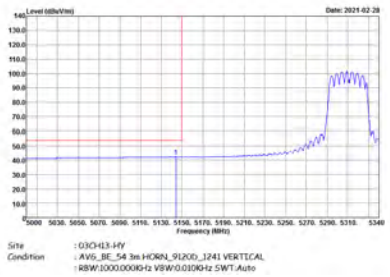
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

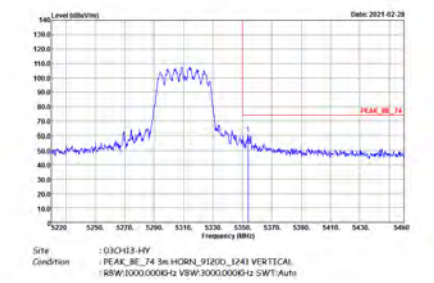
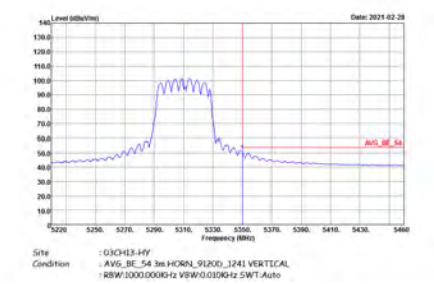
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

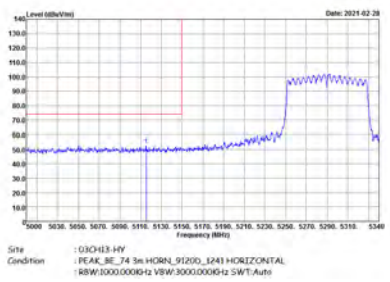
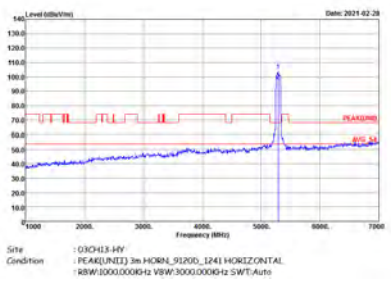
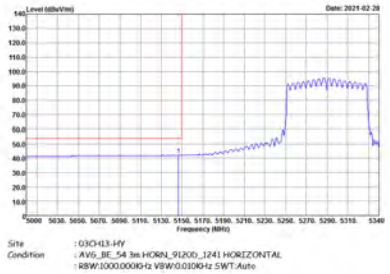
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

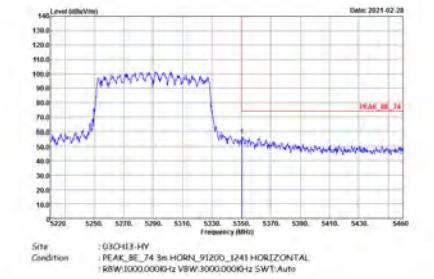
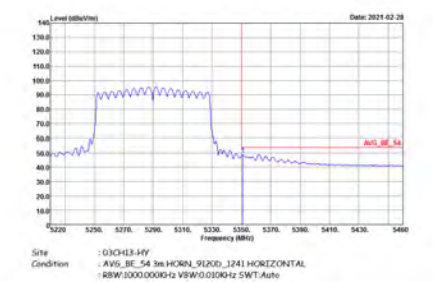
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

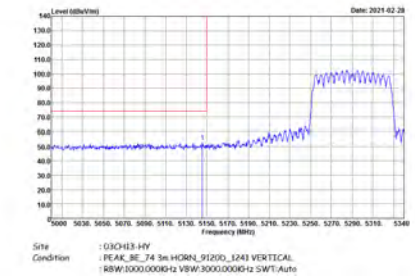
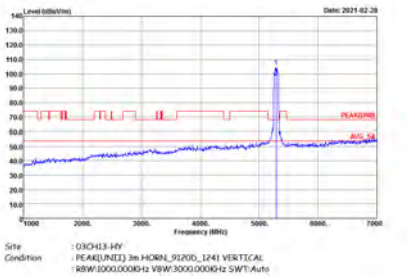
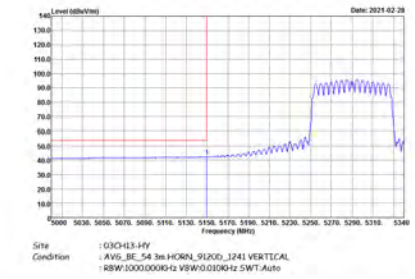
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

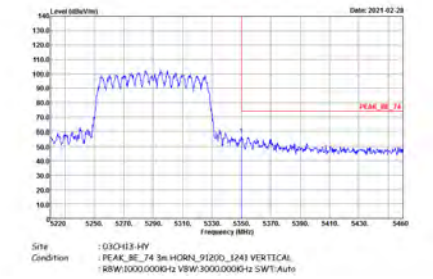
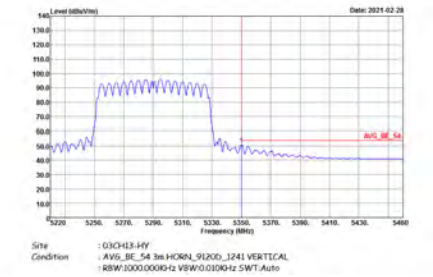
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

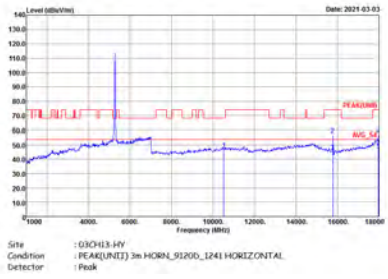
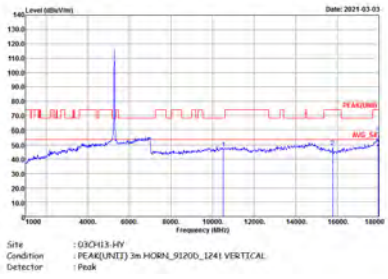
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

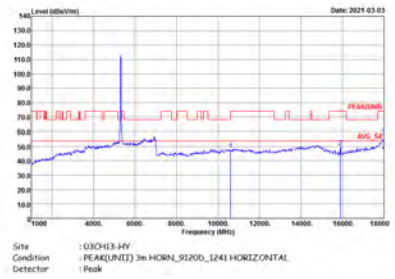
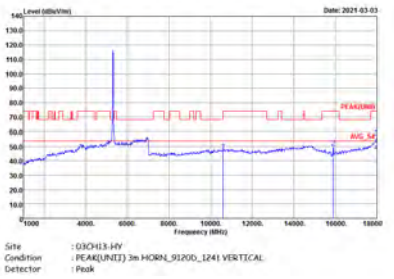
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

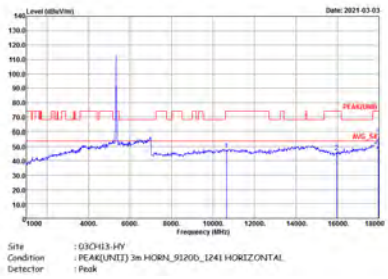
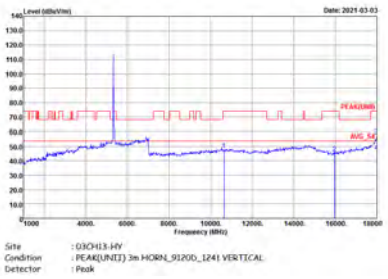
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

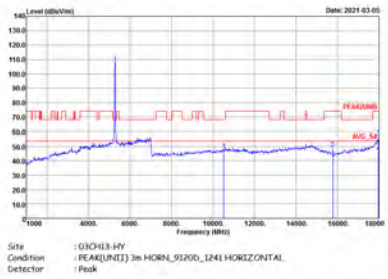
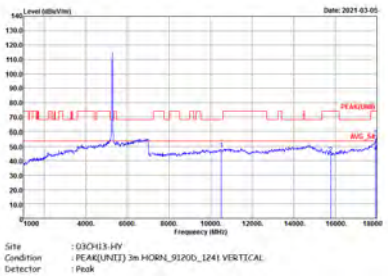
WIFI 802.11a (Harmonic @ 3m)

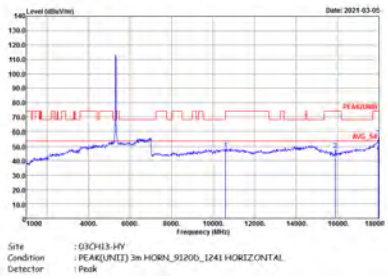
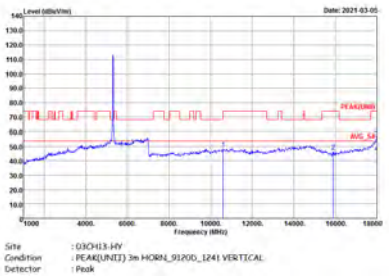
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

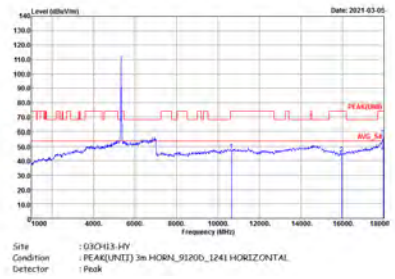
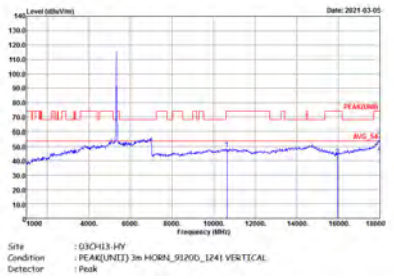
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

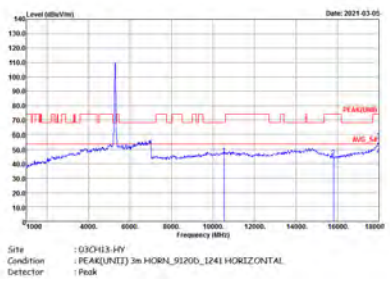
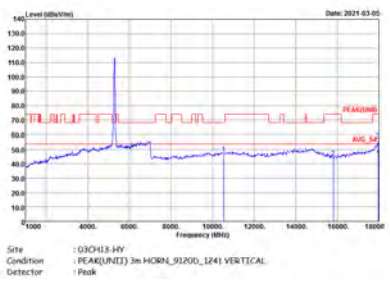
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

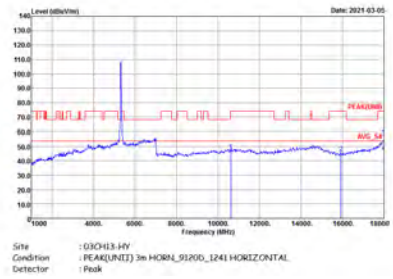
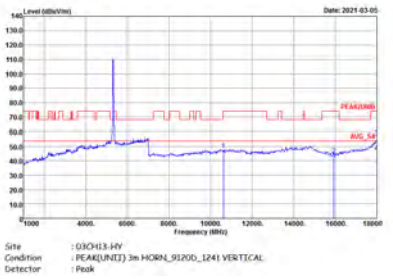
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

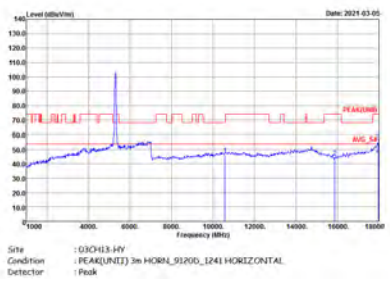
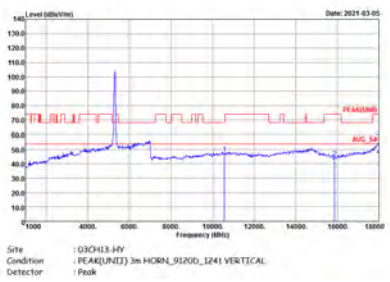
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.		

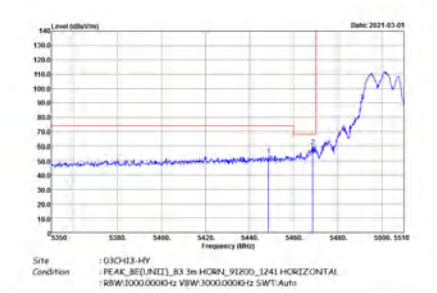
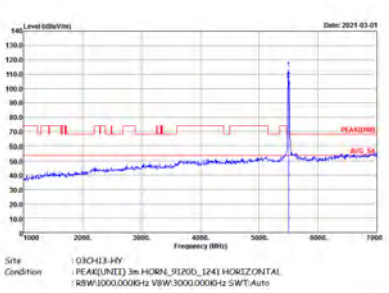
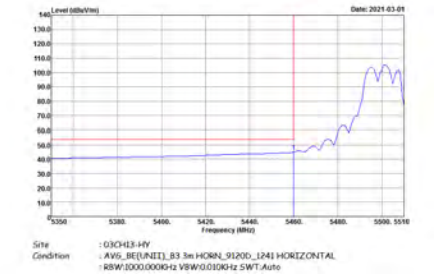
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.		

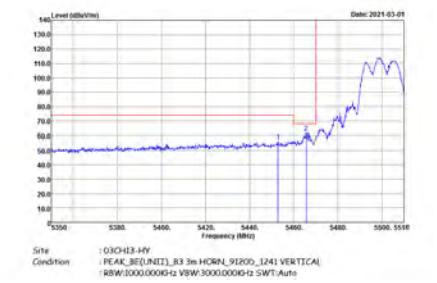
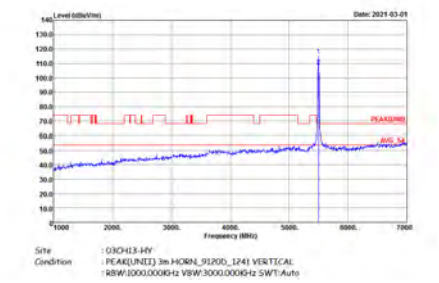
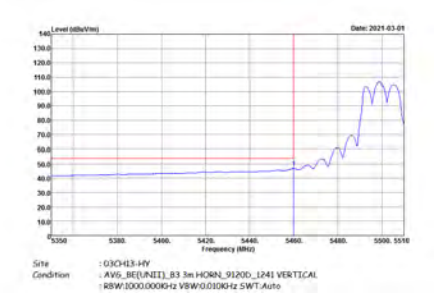
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

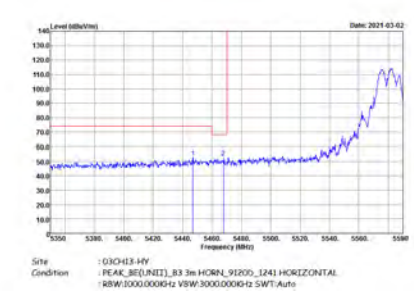
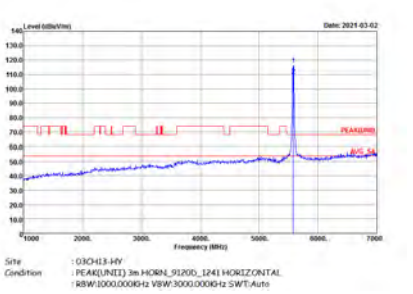
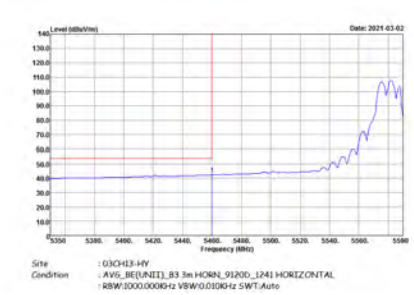
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

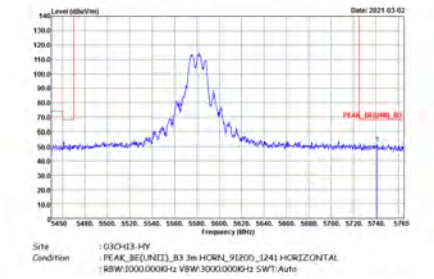
Band 3 - 5470~5725MHz

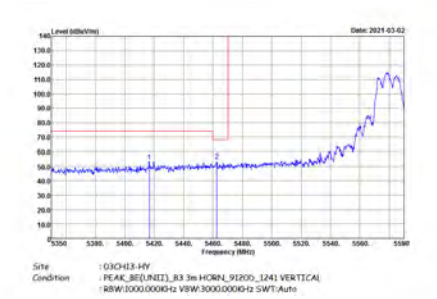
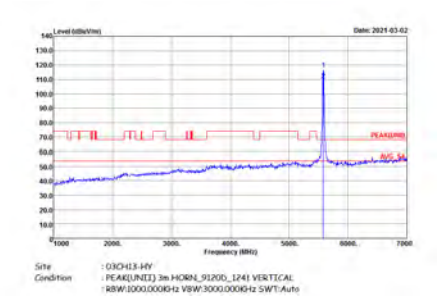
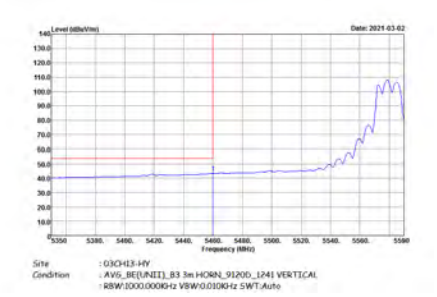
WIFI 802.11a (Band Edge @ 3m)

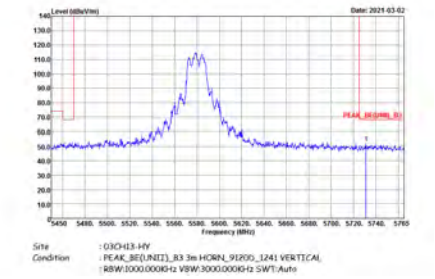
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

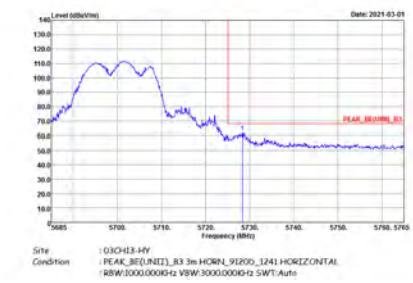
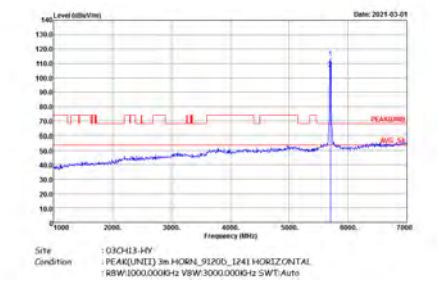
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

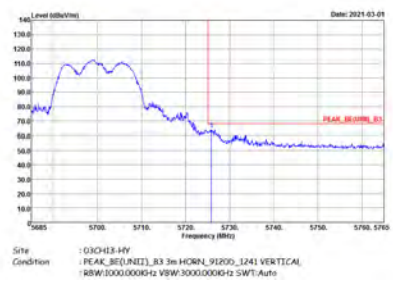
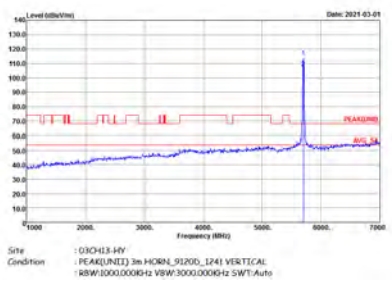
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

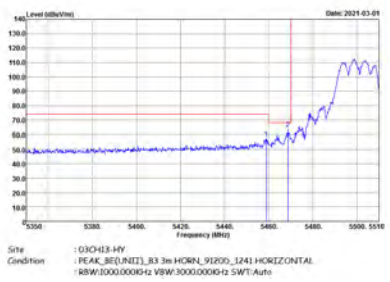
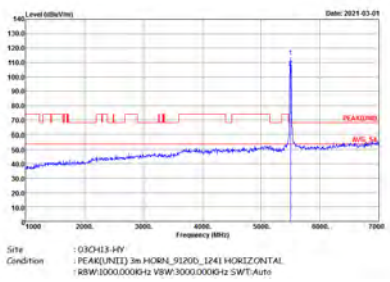
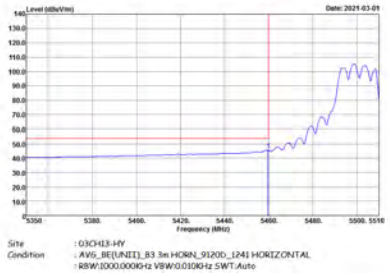
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

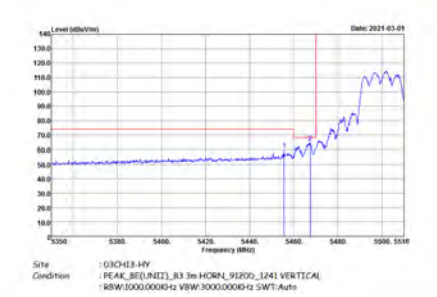
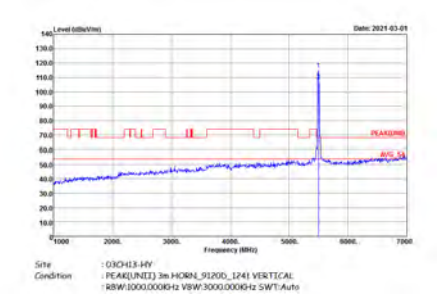
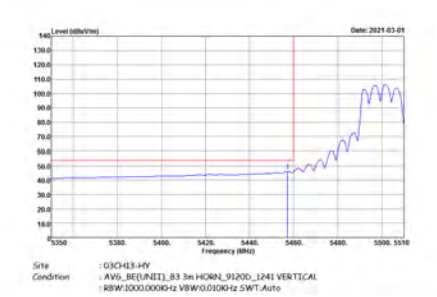
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

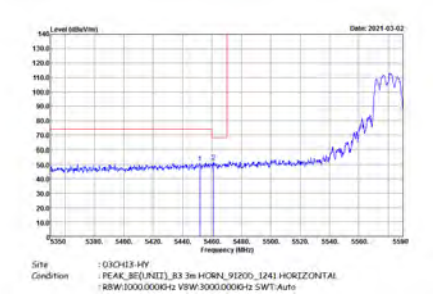
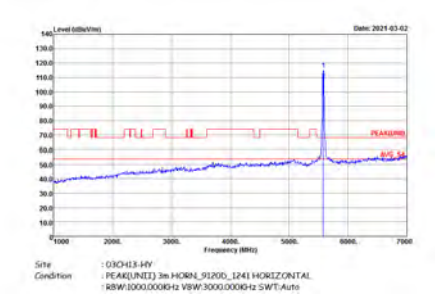
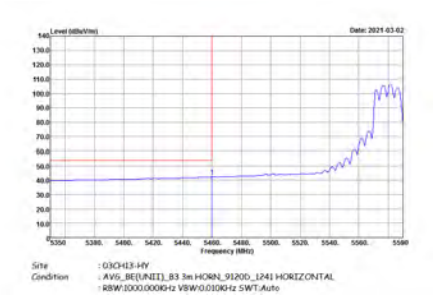
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

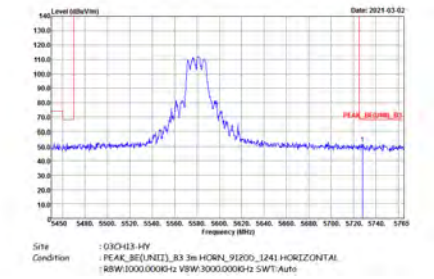
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

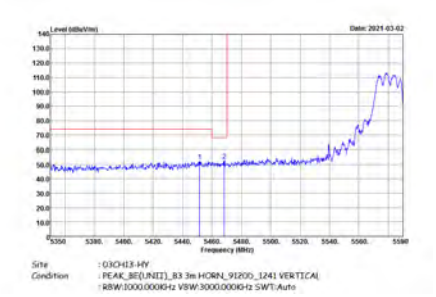
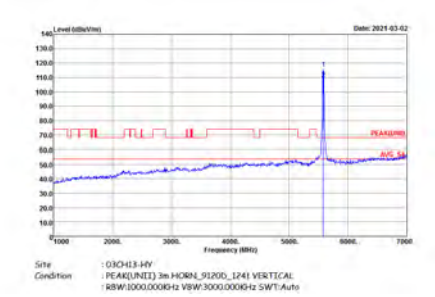
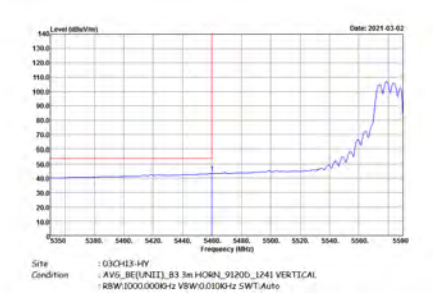
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

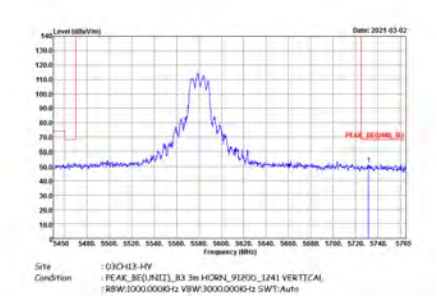
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

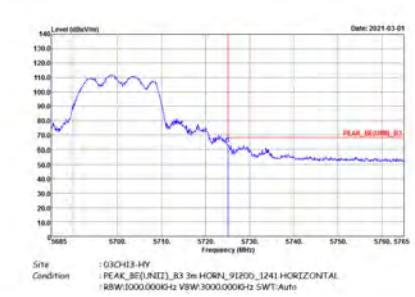
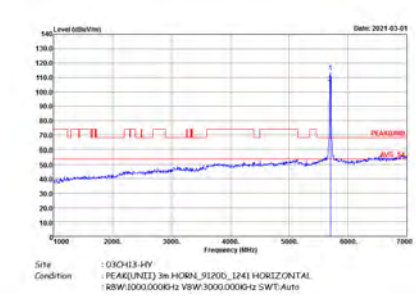
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

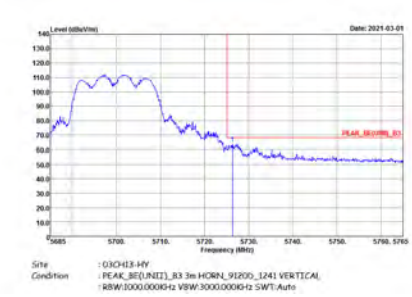
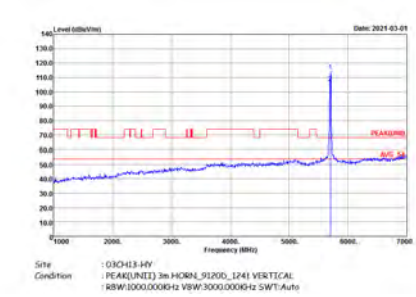
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

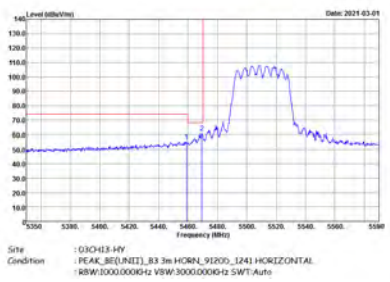
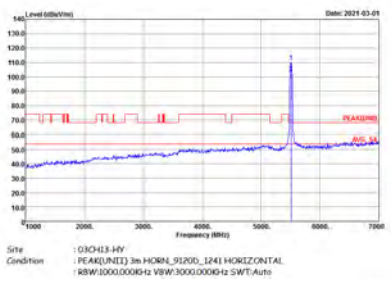
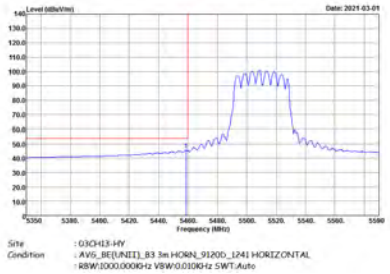
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

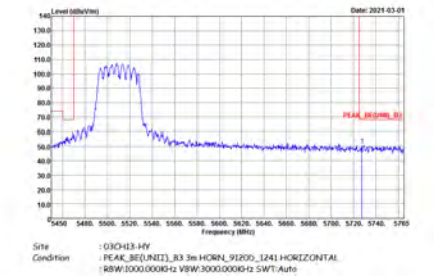
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

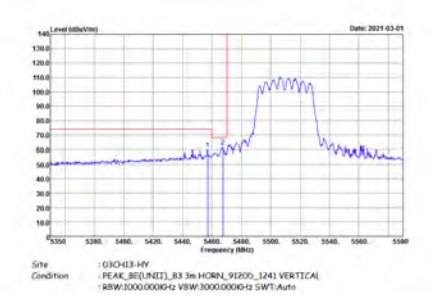
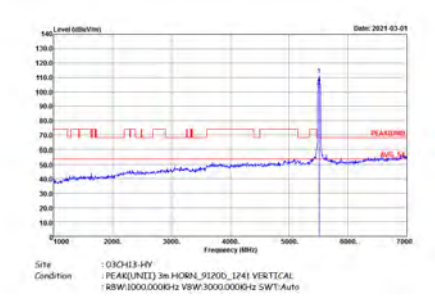
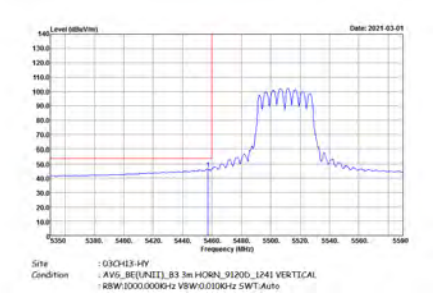
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

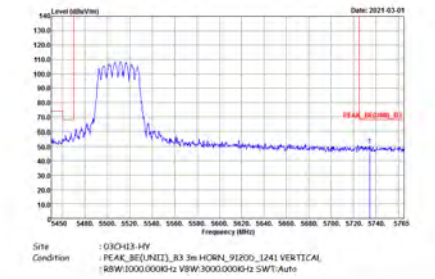
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.		

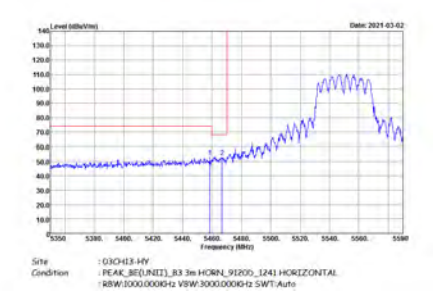
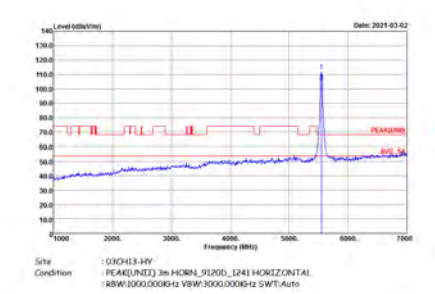
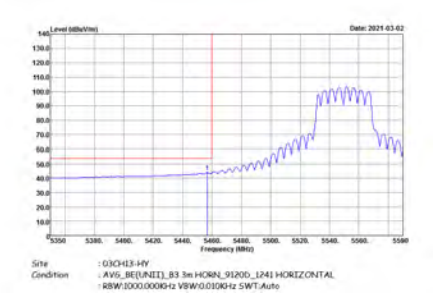
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

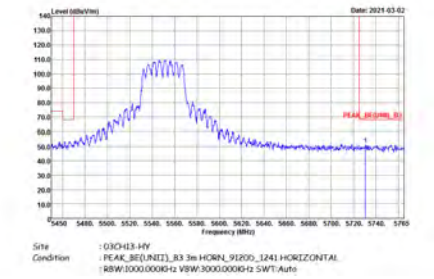
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

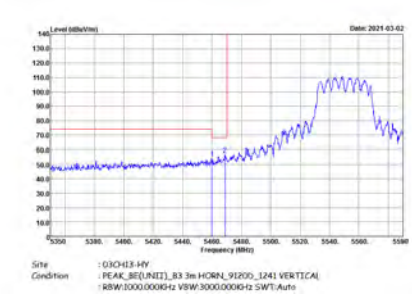
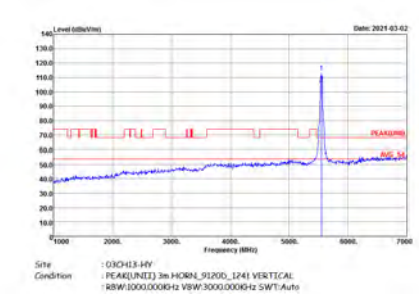
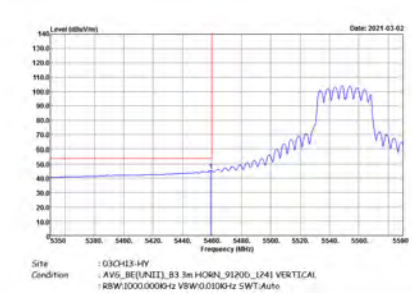
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

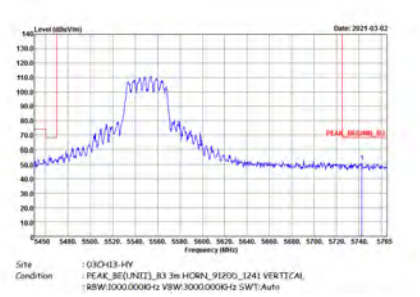
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

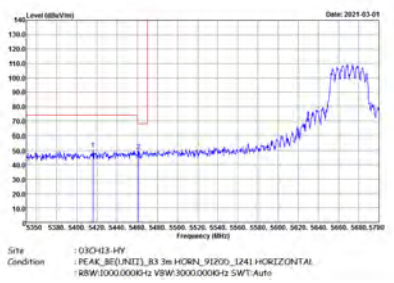
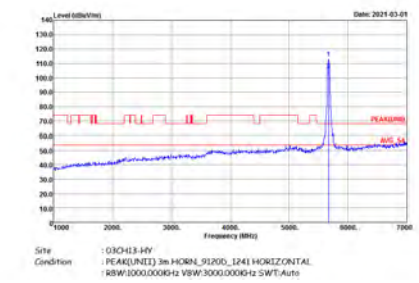
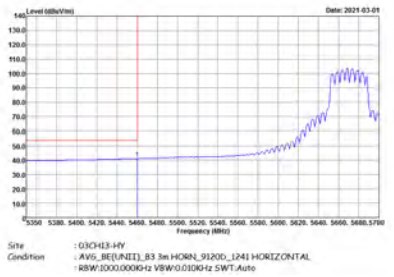
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

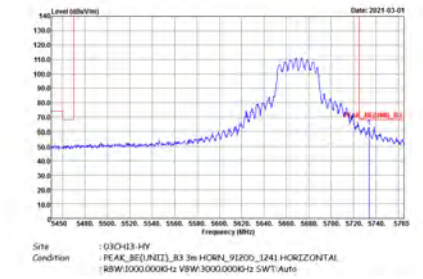
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

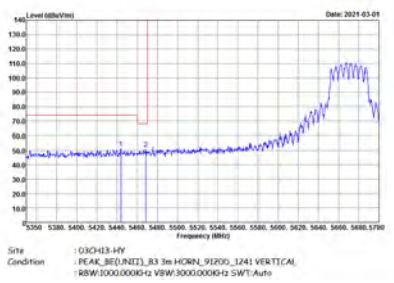
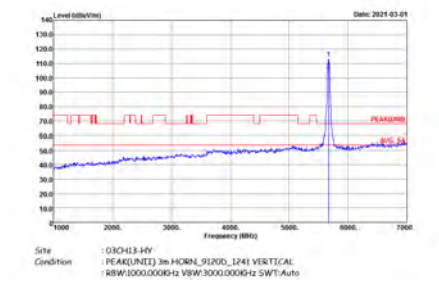
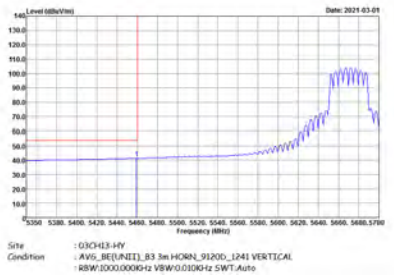
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

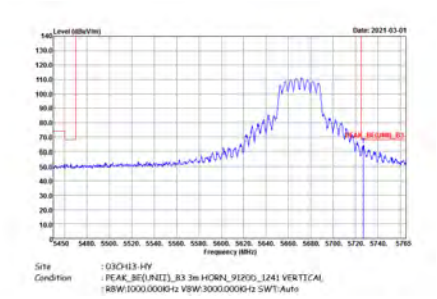
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

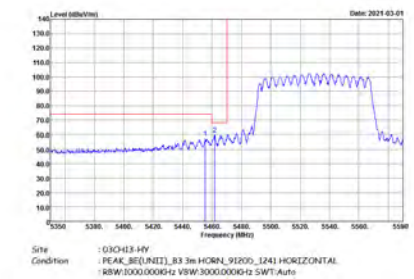
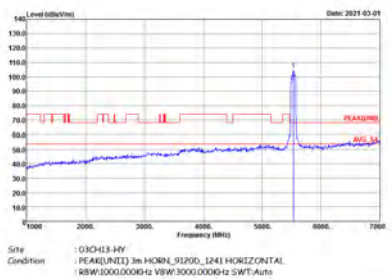
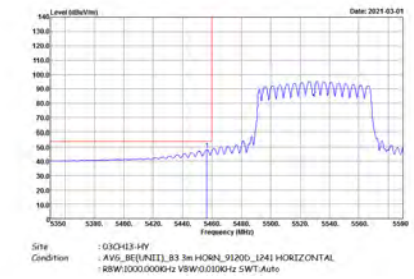
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

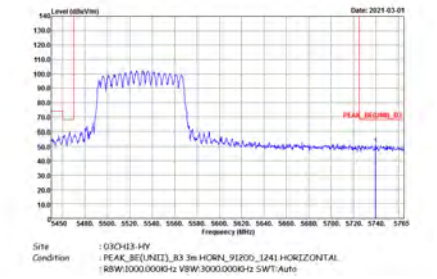
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

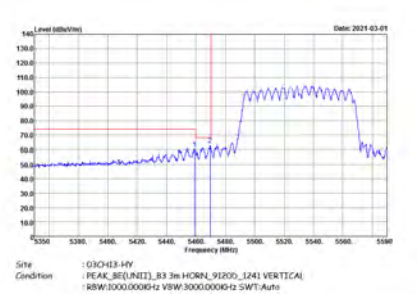
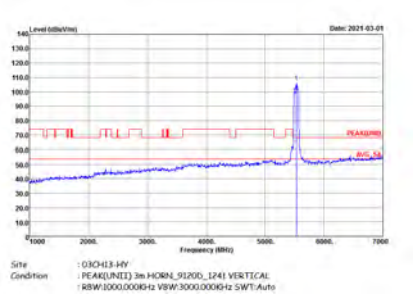
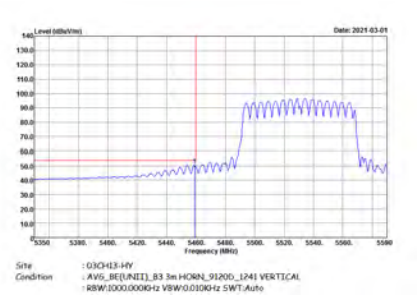
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

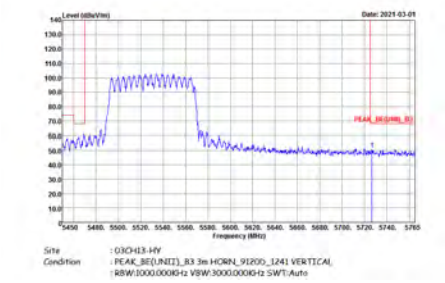
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

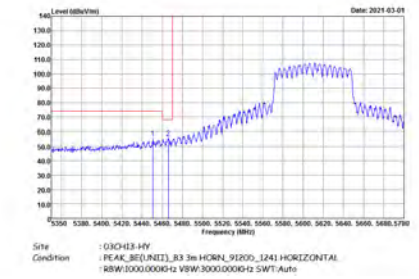
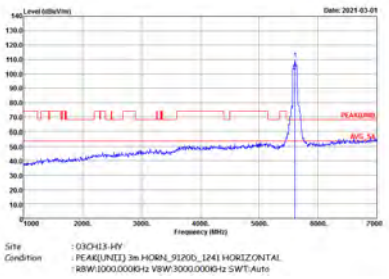
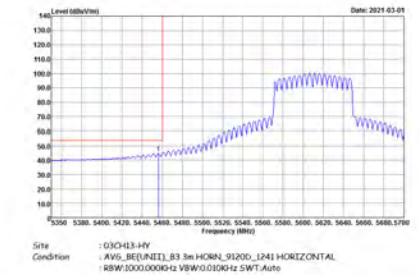
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

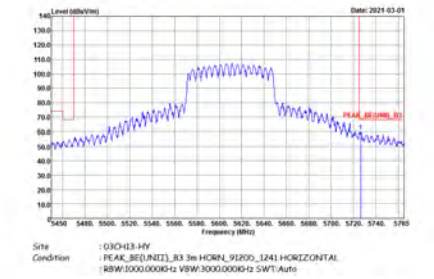
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

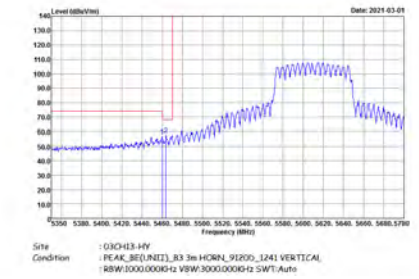
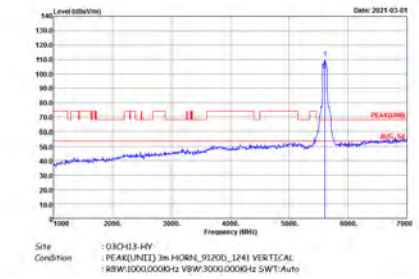
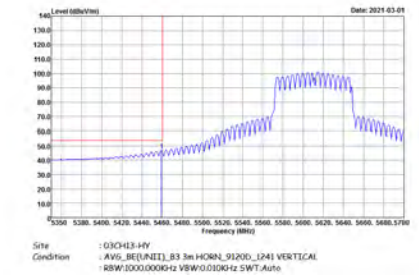
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

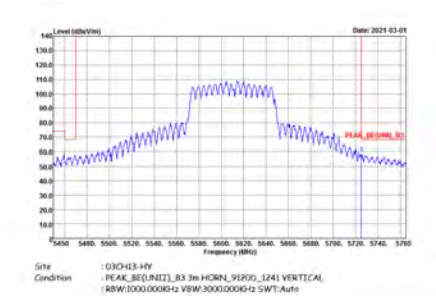
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

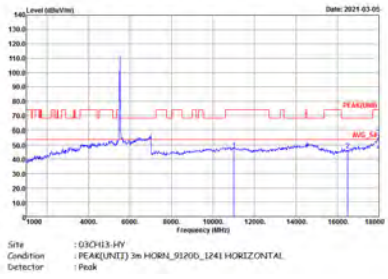
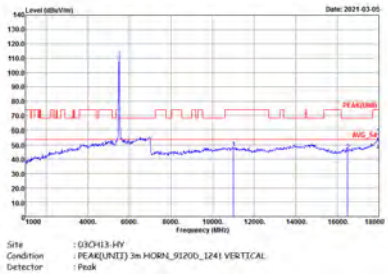
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

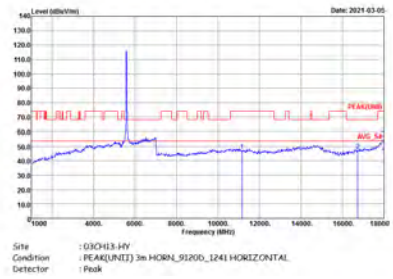
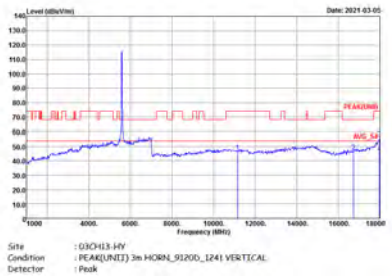
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

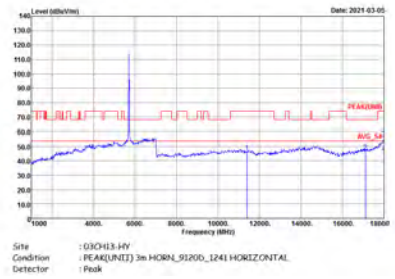
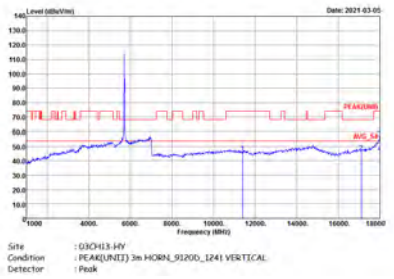
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

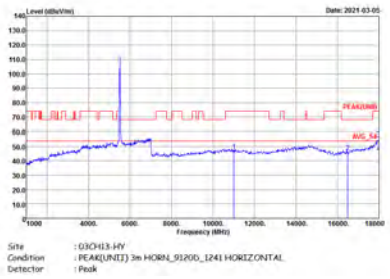
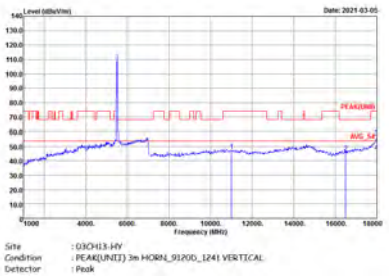
WIFI 802.11a (Harmonic @ 3m)

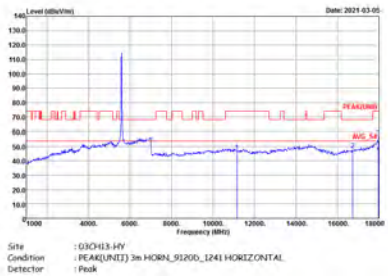
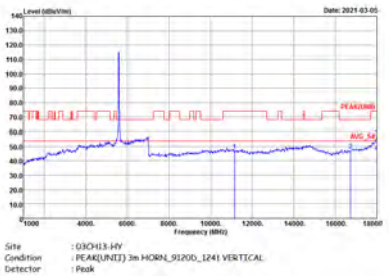
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

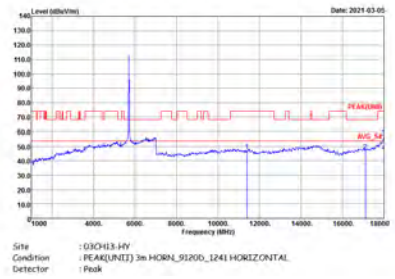
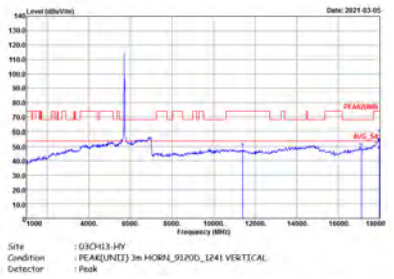
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

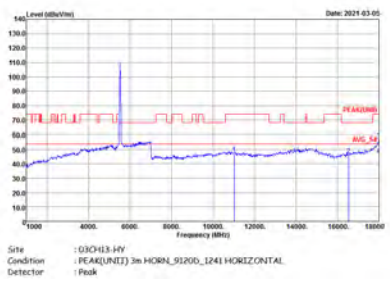
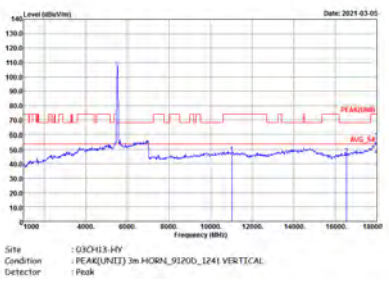
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

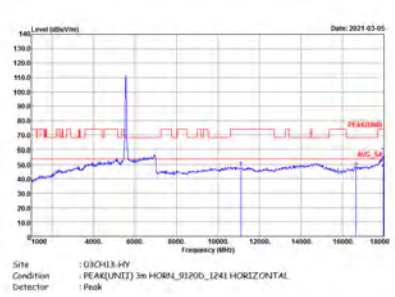
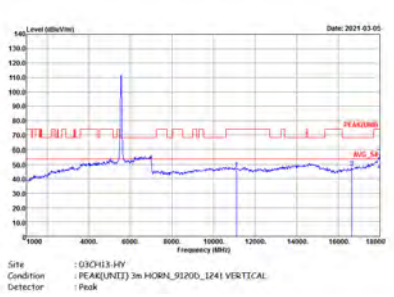
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

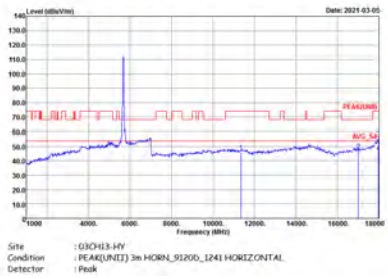
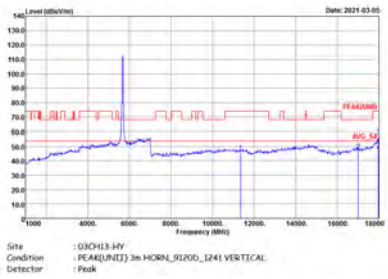
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

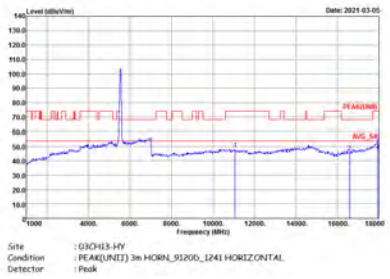
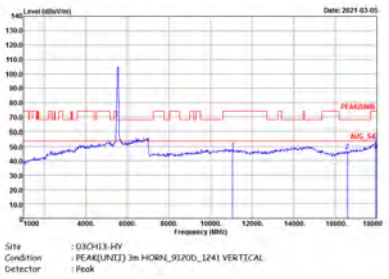
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

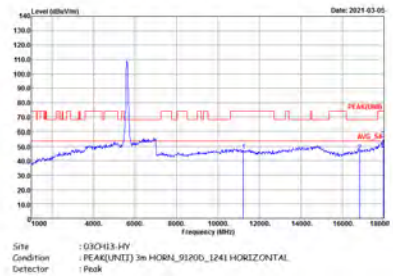
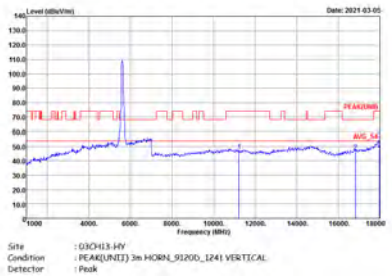
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.		

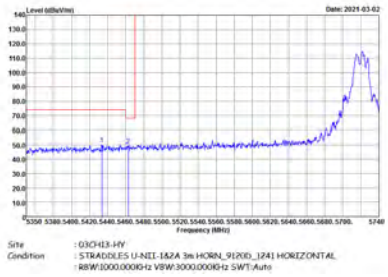
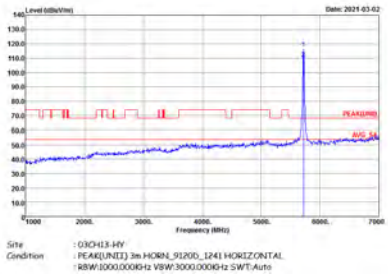
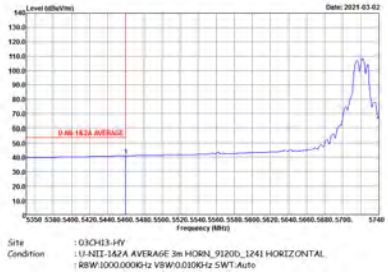
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

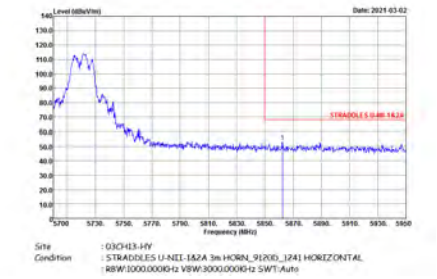
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

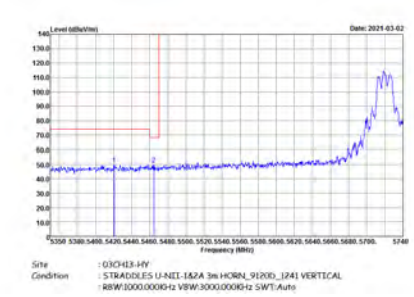
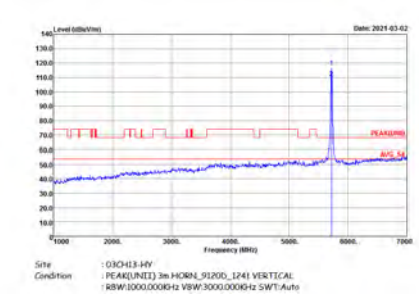
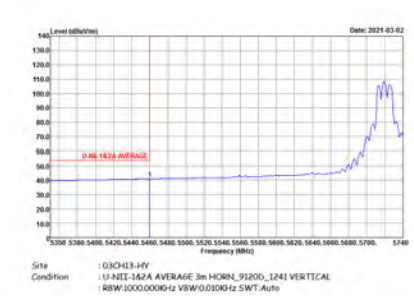
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.		

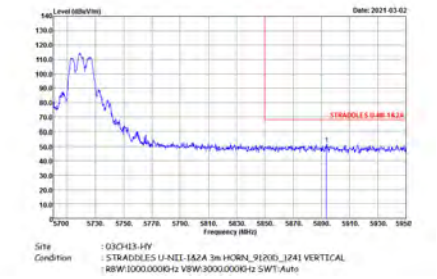
Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

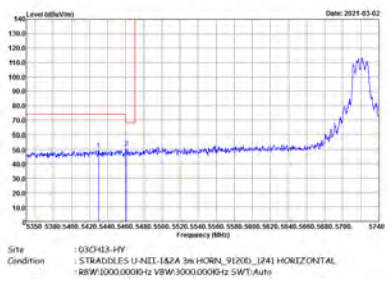
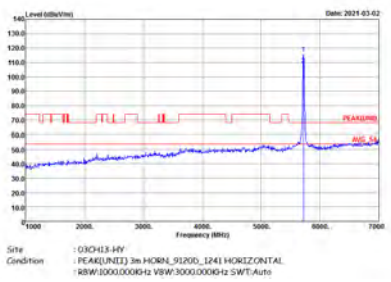
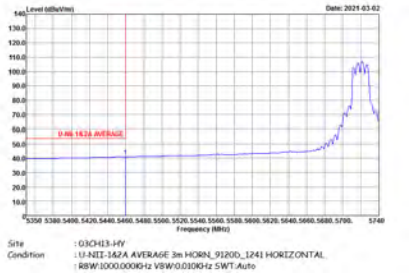
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

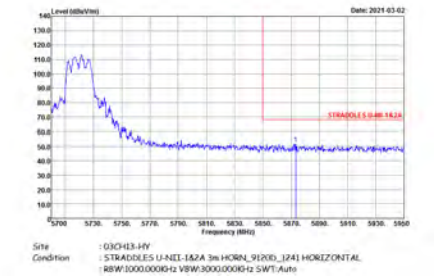
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1+2	Horizontal	Fundamental
Peak		Left blank

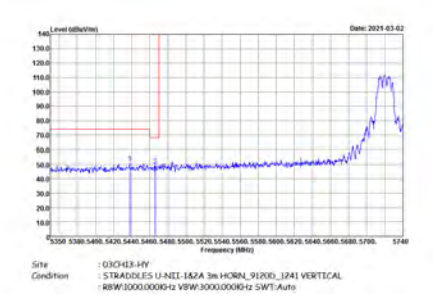
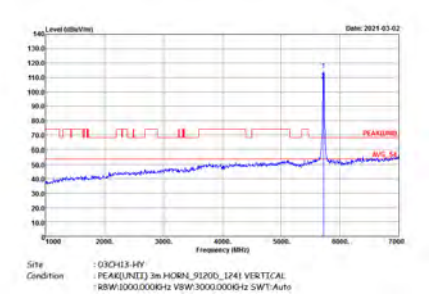
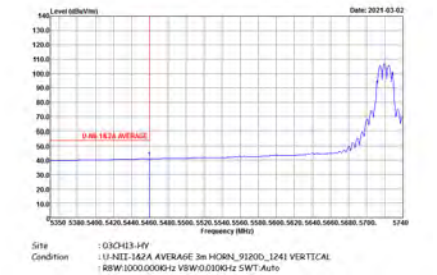
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

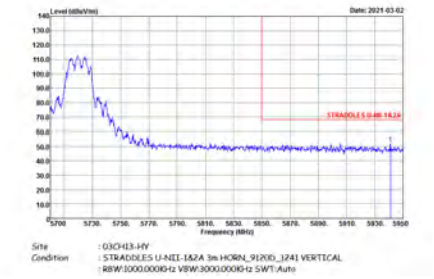
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

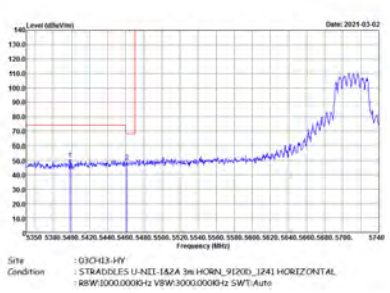
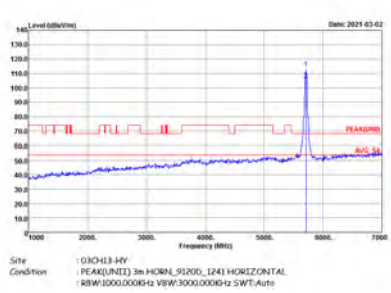
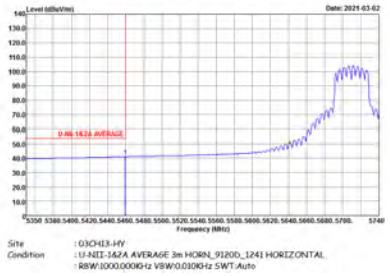
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

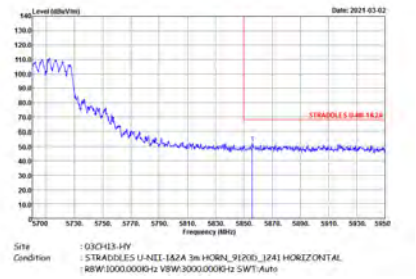
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

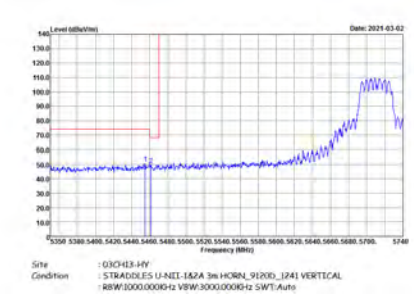
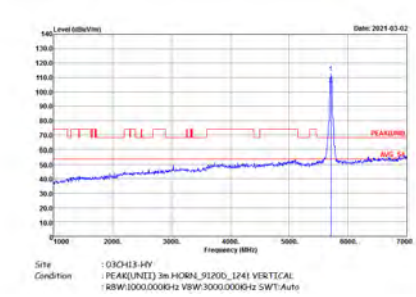
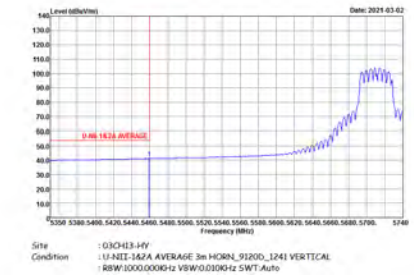
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

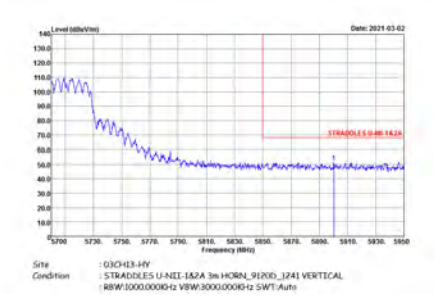
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

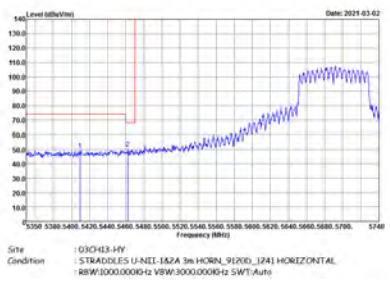
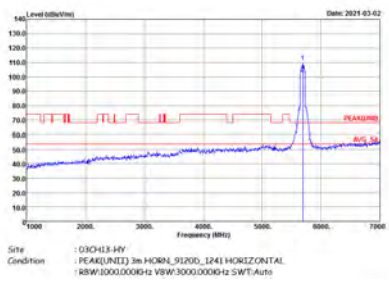
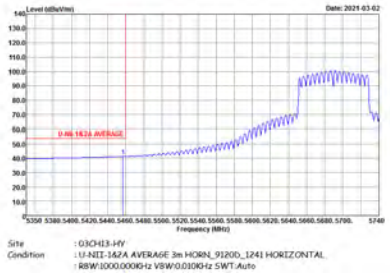
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

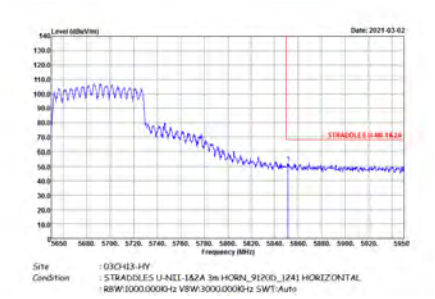
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

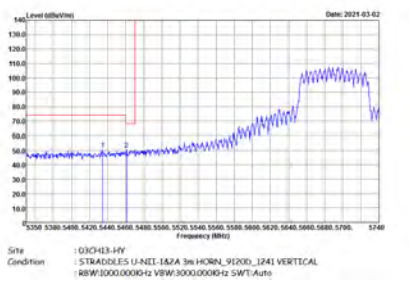
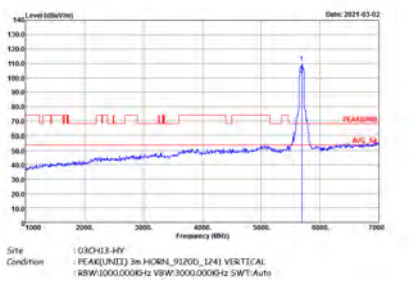
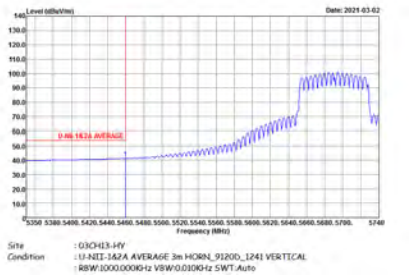
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

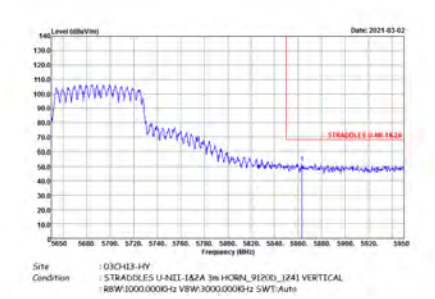
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

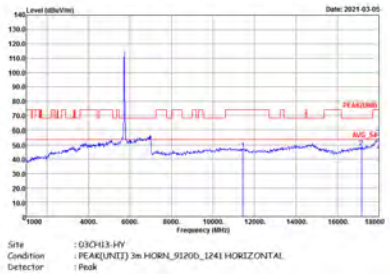
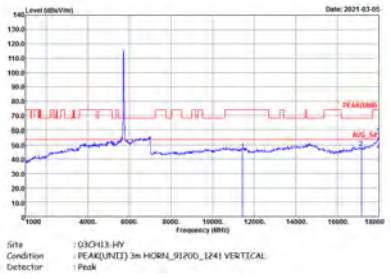
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

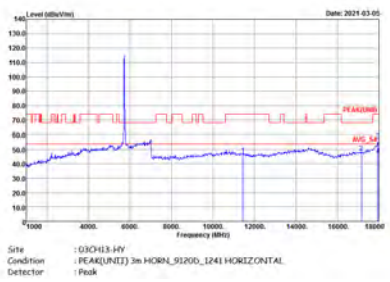
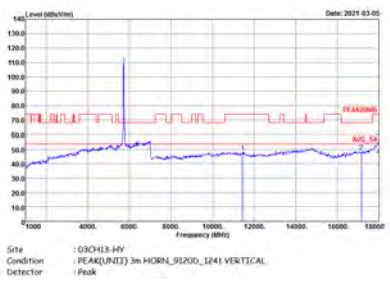
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac CH138 5690MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - Straddle Channel

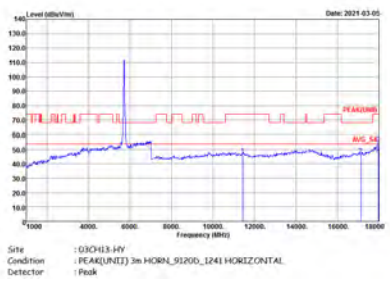
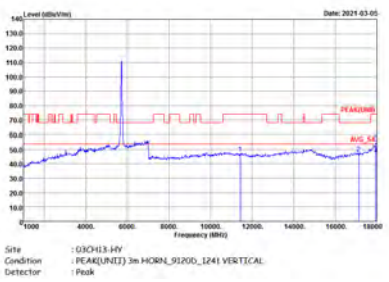
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

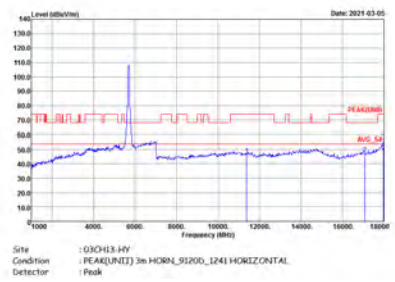
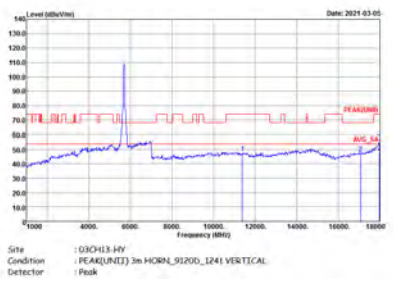
Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

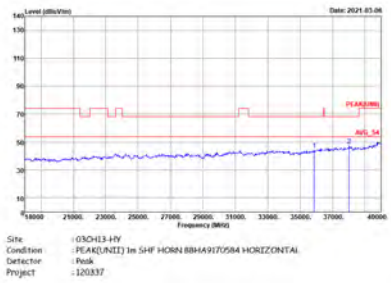
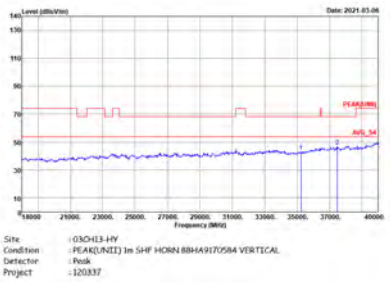
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

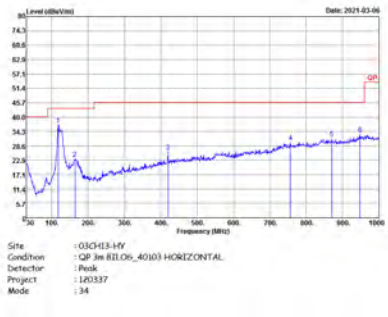
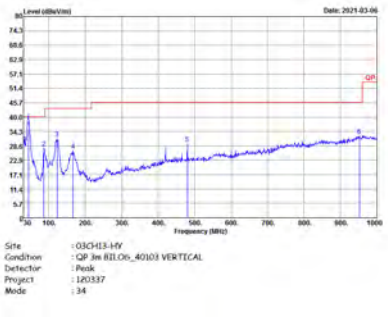
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 SHF	
0+1	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

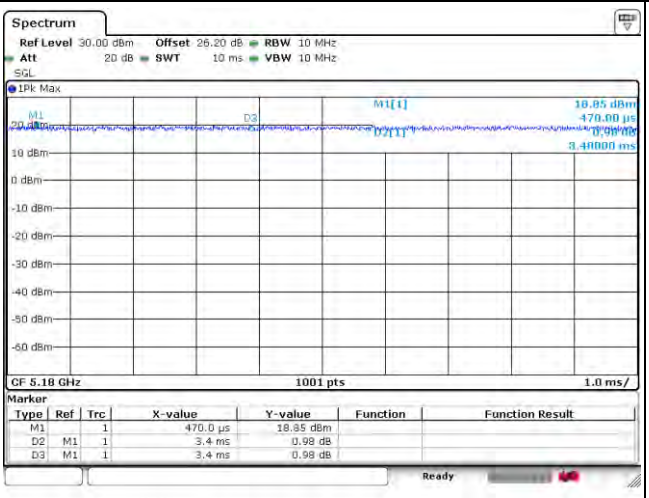
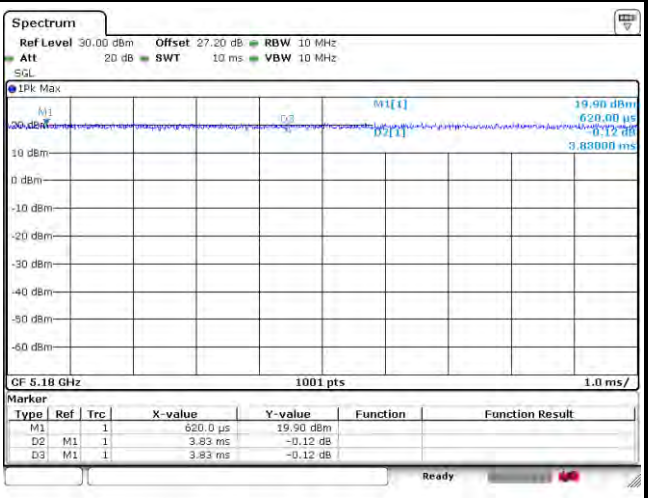
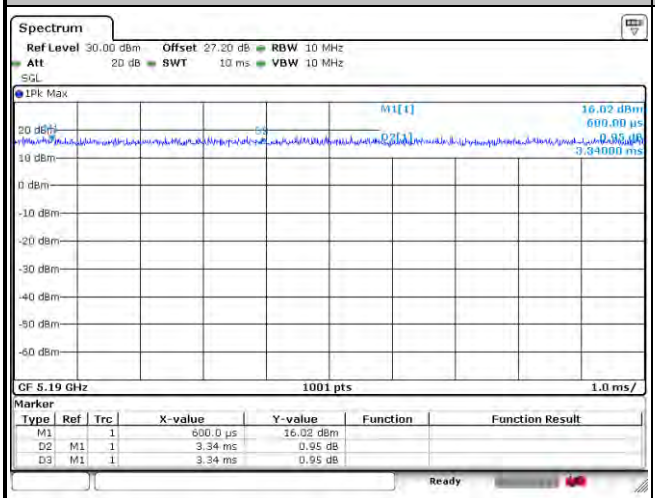
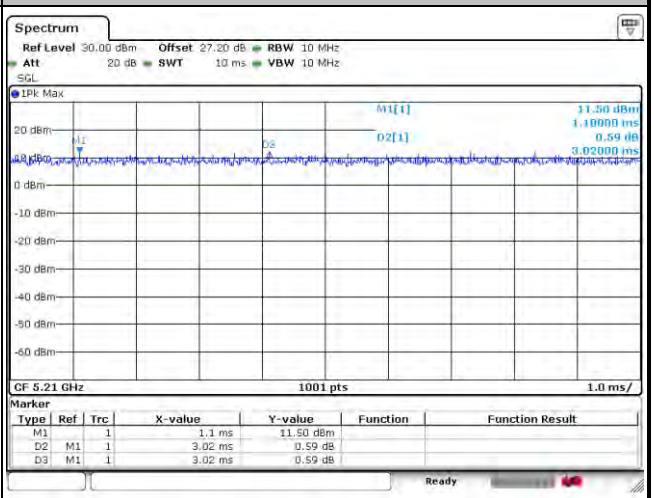
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

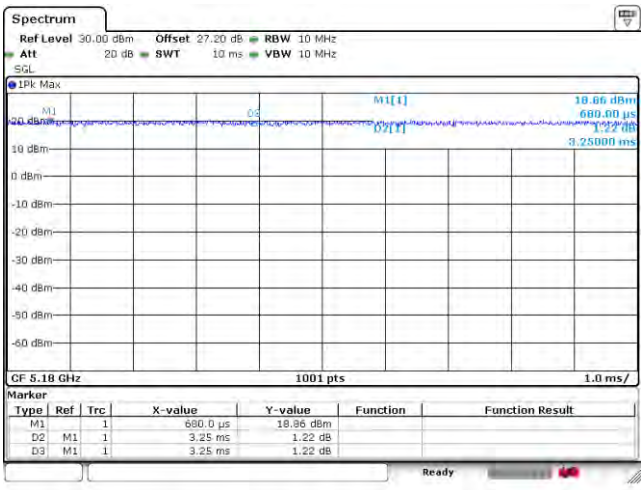
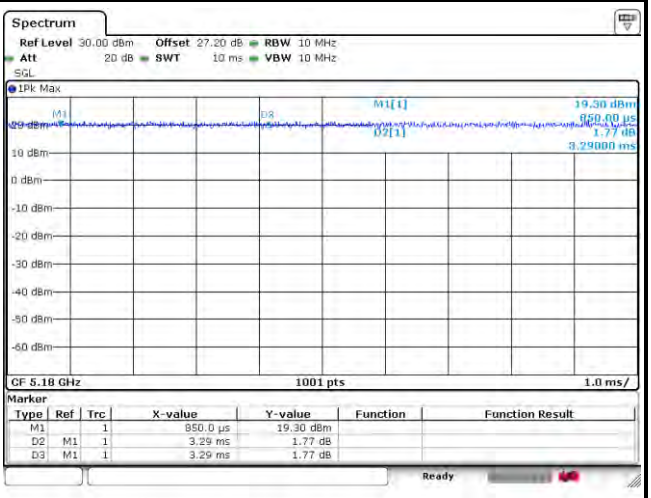
Appendix E. Duty Cycle Plots

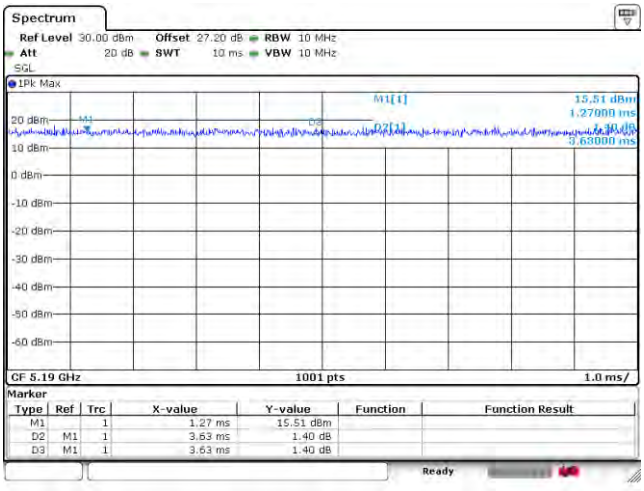
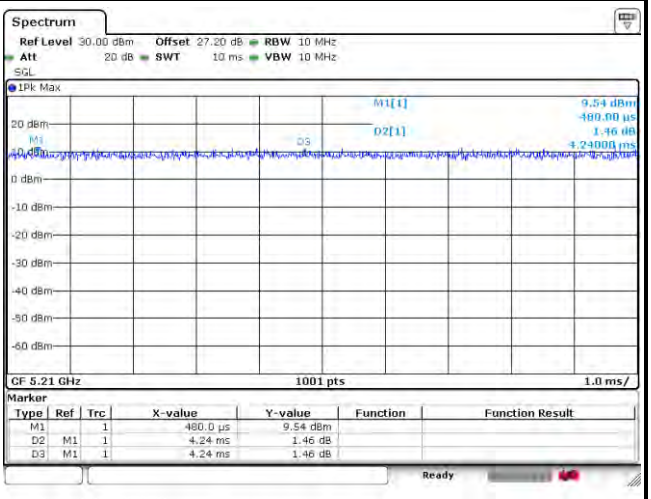
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant 1	100.00	-	-	10Hz	0.00
1+2	802.11a for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11n HT20 for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11n HT20 for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11n HT40 for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11n HT40 for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ac VHT80 for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ac VHT80 for Ant 2	100.00	-	-	10Hz	0.00

MIMO <Ant. 1>

802.11a	802.11n HT20
	
802.11n HT40	**802.11ac VHT80**
	

MIMO <Ant. 2>

802.11a	802.11n HT20
	

802.11n HT40	802.11ac VHT80
	

THE END