FCC RADIO TEST REPORT

FCC ID	:	**B94-C09CWLM**
Equipment	:	**Wireless Module**
Brand Name	:	**HP**
Model Name	:	**LBEE58D1VF**
Applicant	:	**HP Inc.** **1501 Page Mill Road, Palo Alto CA 94304 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Aug. 21, 2020 and testing was started from Sep. 20, 2020 and completed on Oct. 09, 2020. 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, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR0O1919D	01	Initial issue of report	Oct. 20, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 0.67 dB at 5459.920 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 6.63 dB at 0.152 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: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Installed into host	Brand Name: HP Model Name: HSN-C09C
Antenna Type	WLAN <Ant. 1>: Couple Antenna <Ant. 2>: Couple Antenna Bluetooth: Couple Antenna

Antenna Information						
NB Mode	Ant. Type	Couple		Ant. Type	Couple	
	Part No.	260-24315 (DC33002FX20)	TX1 Antenna	Part No.	260-24315 (DC33002FX20)	TX2 Antenna
	Peak Gain (dBi)	WLAN(5G B1): -4.28 WLAN(5G B2): -4.28 WLAN(5G B3): -3.23		WLAN(5G B1): -1.51 WLAN(5G B2): -3.22 WLAN(5G B3): -5.06		
TB Mode	Ant. Type	Couple		Ant. Type	Couple	
	Part No.	260-24315 (DC33002FX20)	TX1 Antenna	Part No.	260-24315 (DC33002FX20)	TX2 Antenna
	Peak Gain (dBi)	WLAN(5G B1): -3.44 WLAN(5G B2): -4.09 WLAN(5G B3): -1.80		WLAN(5G B1): -6.93 WLAN(5G B2): -8.37 WLAN(5G B3): -5.64		

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, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	**Sporton Site No.**		
	TH05-HY	CO05-HY	03CH07-HY

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

FCC designation No.: TW1190

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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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 and Notebook type. The worst cases (X 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.

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Earphone + Data Link with HD + Adapter
Remark: Data Link with HD means data application transferred mode between EUT and HD.	

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

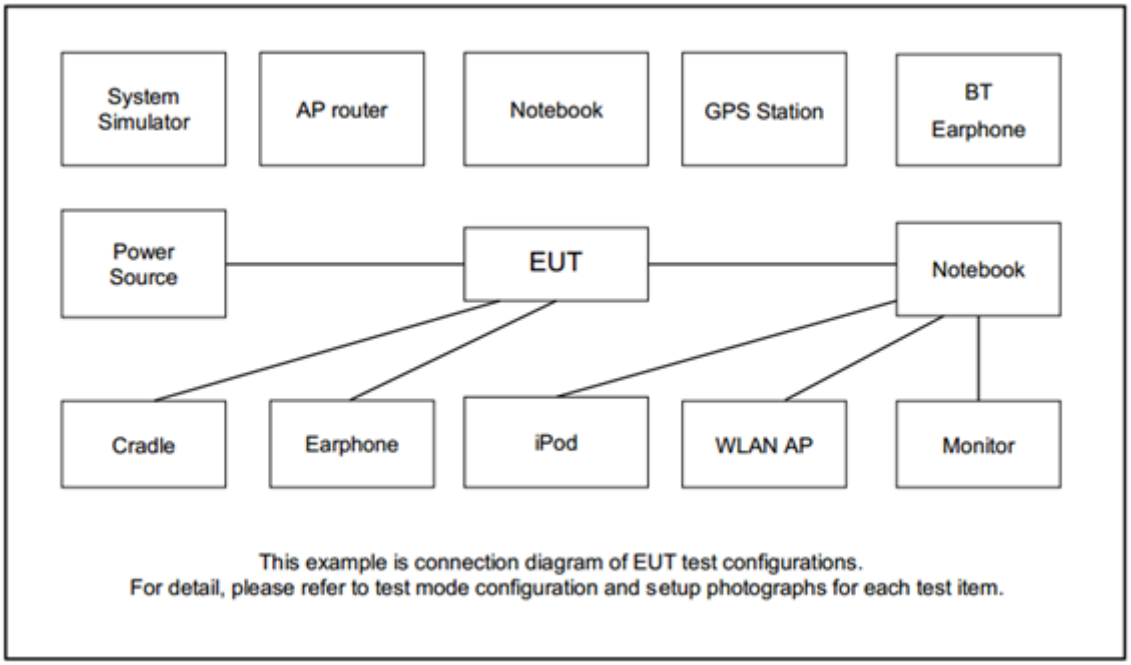
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	-	100
M	Middle	-	-	-
H	High	-	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	-	102
M	Middle	-	-	-
H	High	-	62	134
Straddle		-	-	142

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-
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 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	HD	Lenovo	F310S	FCC DoC	Shielded, 1.0m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT4.0.00156.0” was installed in EUT which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

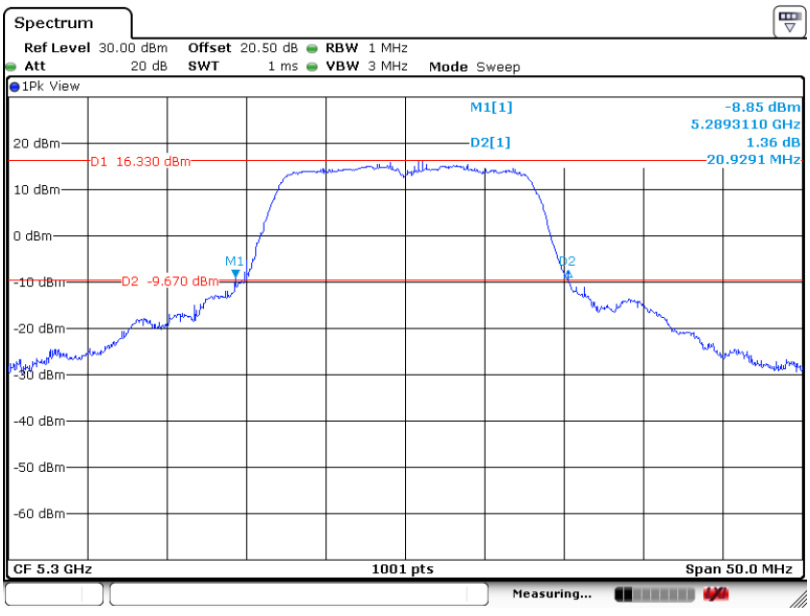
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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

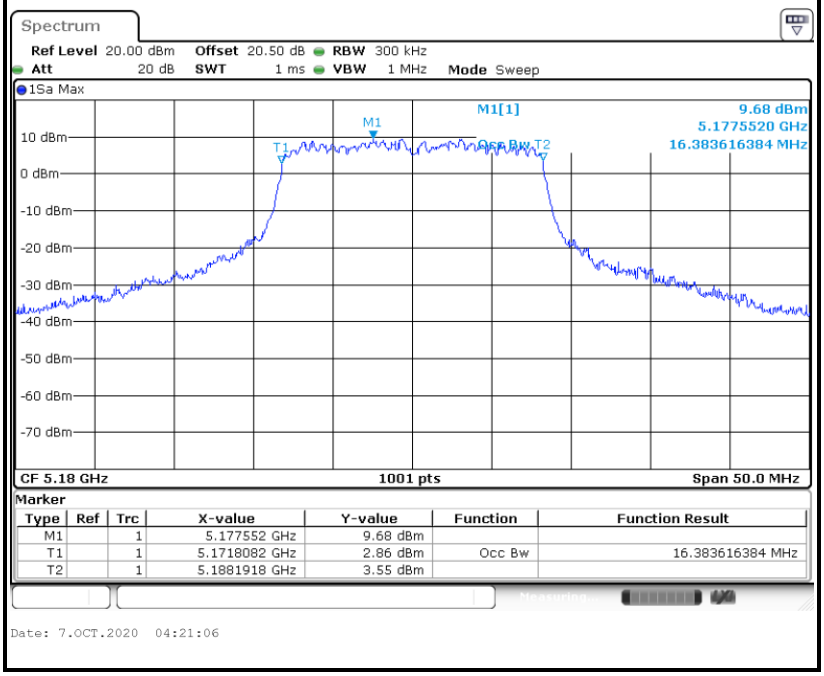
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



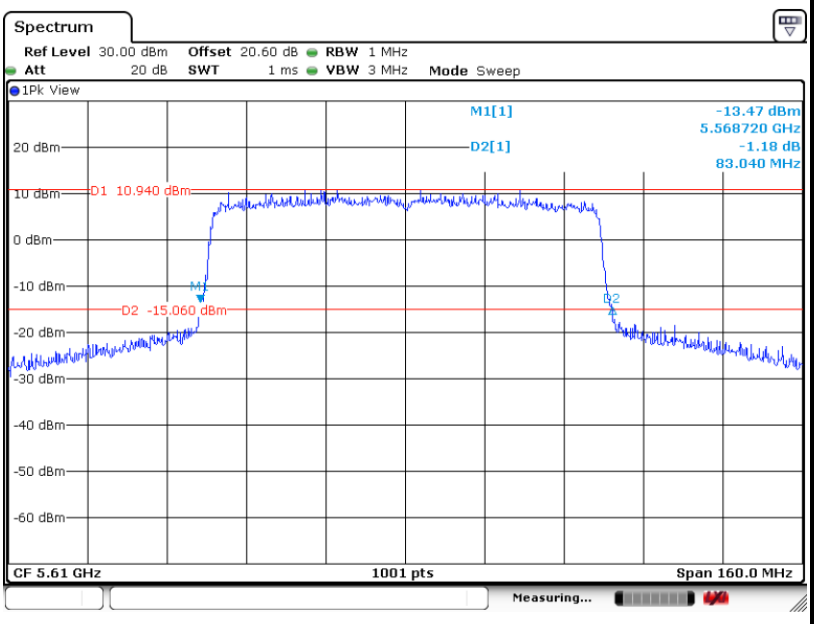
Maximum 99% Occupied Bandwidth



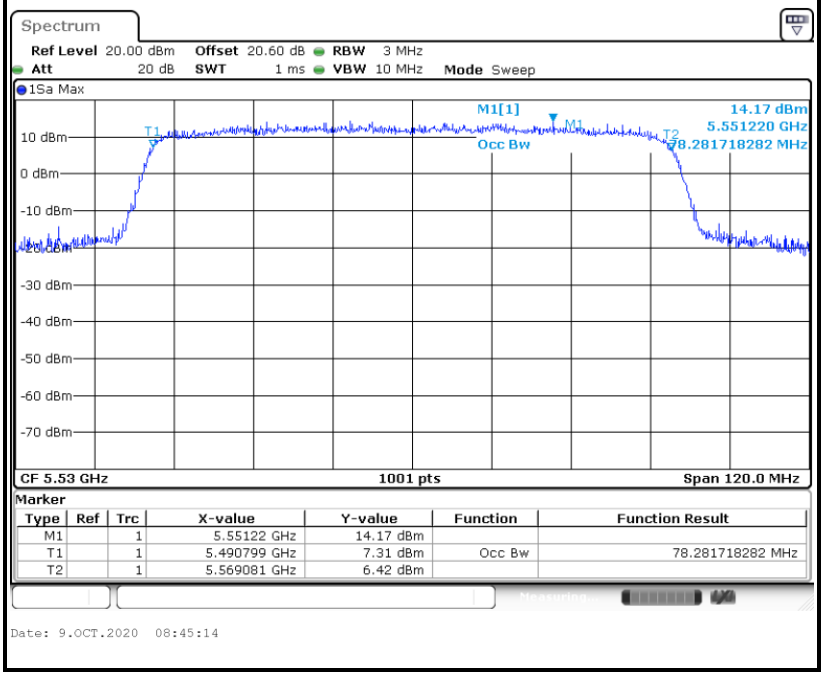
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<For 802.11ax Mode>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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

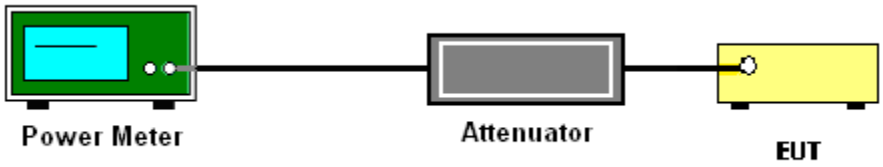
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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.

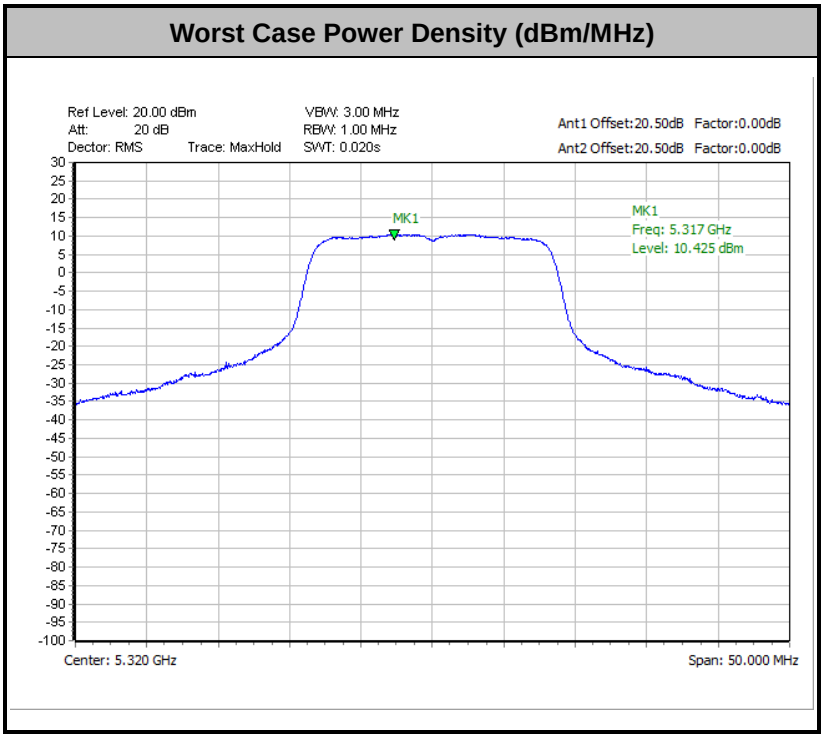
   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

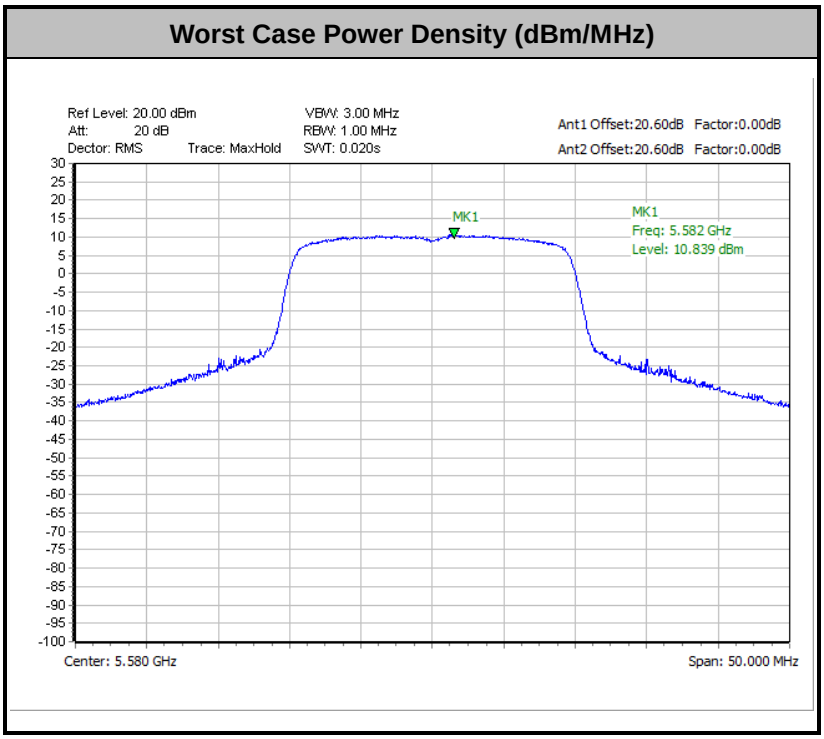
Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



<For 802.11ax Mode>

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 1000MHz

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

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

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

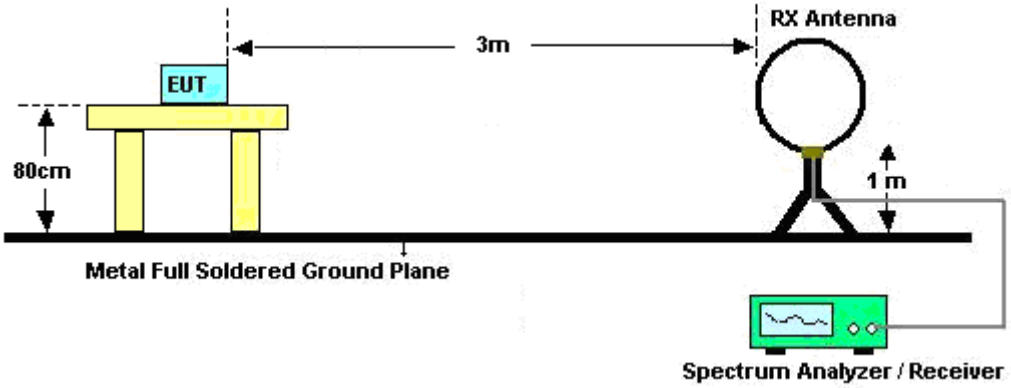
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

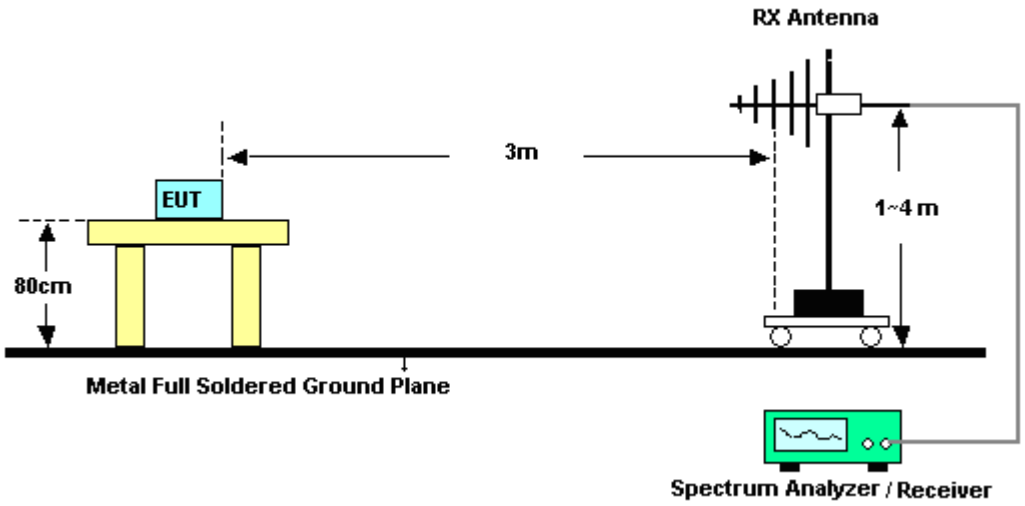
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

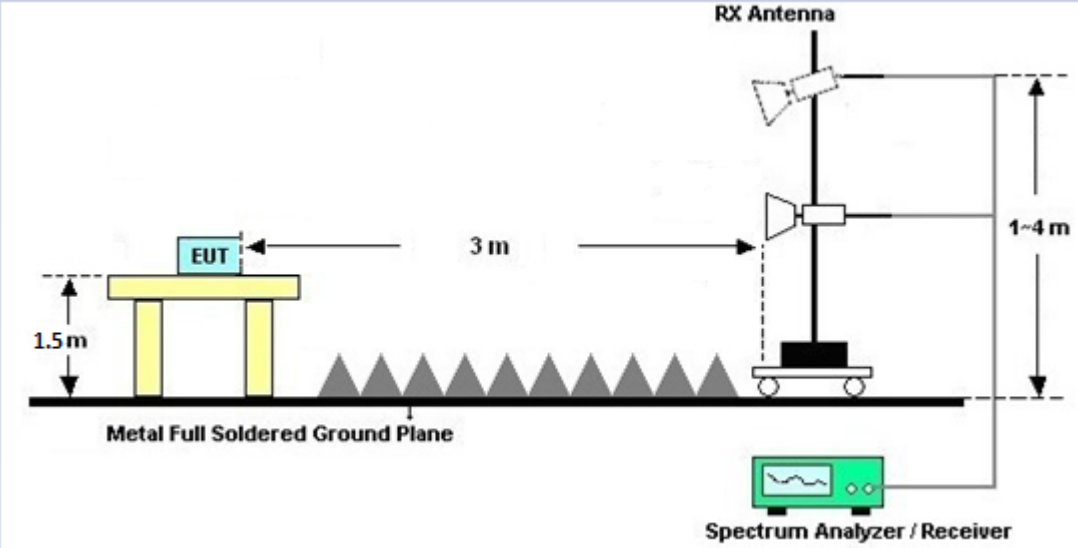
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of 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.

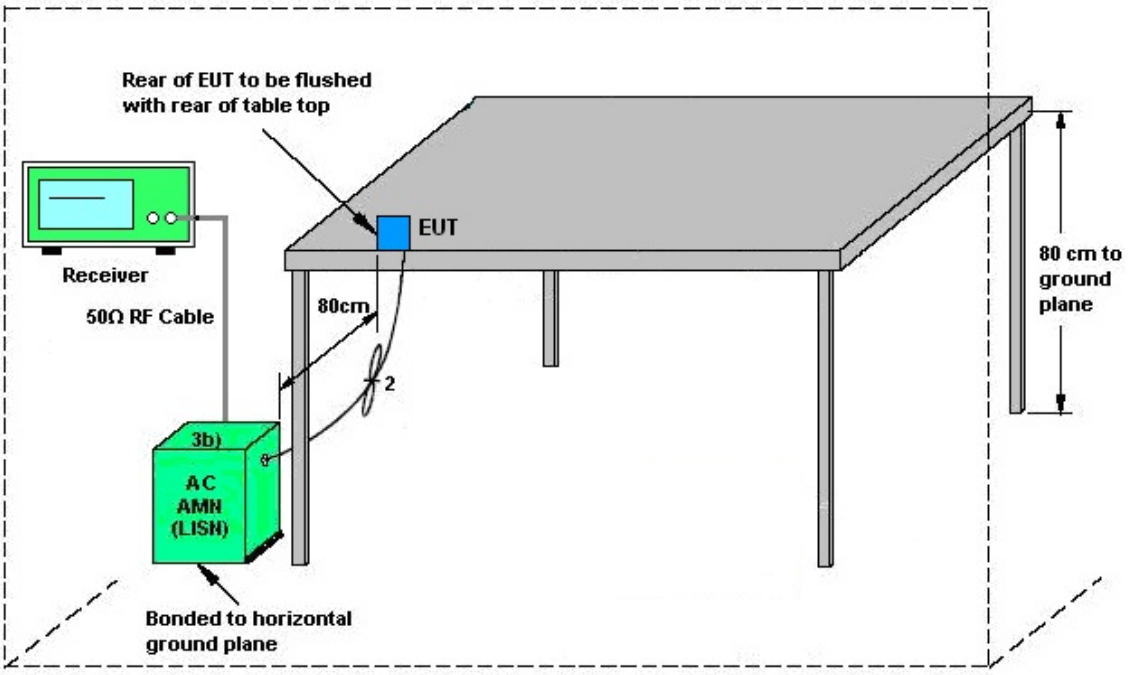
3.5.2 Measuring Instruments

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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	-4.28	-1.51	-1.51	0.23	0.00	0.00
Band II	-4.28	-3.22	-3.22	-0.72	0.00	0.00
Band III	-1.80	-5.64	-1.80	-0.50	0.00	0.00

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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Oct. 02, 2020~ Oct. 07, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Oct. 02, 2020~ Oct. 07, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Oct. 02, 2020~ Oct. 07, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz~40GHz	Dec. 10, 2019	Oct. 02, 2020~ Oct. 07, 2020	Dec. 09, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Oct. 02, 2020~ Oct. 07, 2020	May 20, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Oct. 02, 2020~ Oct. 07, 2020	Jun. 08, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Oct. 02, 2020~ Oct. 07, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590075	1GHz~18GHz	Apr. 23, 2020	Oct. 02, 2020~ Oct. 07, 2020	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Oct. 02, 2020~ Oct. 07, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Oct. 02, 2020~ Oct. 07, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,801606/2	18GHz~40GHz	Feb. 25, 2020	Oct. 02, 2020~ Oct. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Oct. 02, 2020~ Oct. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Oct. 02, 2020~ Oct. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Oct. 02, 2020~ Oct. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Oct. 02, 2020~ Oct. 07, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Oct. 02, 2020~ Oct. 07, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 02, 2020~ Oct. 07, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Oct. 02, 2020~ Oct. 07, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Oct. 02, 2020~ Oct. 07, 2020	N/A	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Sep. 20, 2020~ Oct. 09, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 23, 2019	Sep. 20, 2020~ Oct. 09, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Sep. 20, 2020~ Oct. 09, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Sep. 20, 2020~ Oct. 09, 2020	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 23, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Sep. 23, 2020	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Sep. 23, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 23, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Sep. 23, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Sep. 23, 2020	Jan. 01, 2021	Conduction (CO05-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))	**4.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Howard Lin/Hank Hsu	Temperature:	21~25	°C
Test Date:	2020/09/20~2020/10/09	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	16.33	16.38	20.33	20.73	-		22.13			
11a	6Mbps	2	44	5220	16.33	16.33	20.33	20.28	-		22.13			
11a	6Mbps	2	48	5240	16.33	16.38	20.68	19.93	-		22.13			

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	17.00	17.60		24.00	24.00	-4.28	-1.51		Pass
11a	6Mbps	1	44	5220	17.00	17.70		24.00	24.00	-4.28	-1.51		Pass
11a	6Mbps	1	48	5240	17.20	17.70		24.00	24.00	-4.28	-1.51		Pass
HT20	MCS0	1	36	5180	17.10	17.60		24.00	24.00	-4.28	-1.51		Pass
HT20	MCS0	1	44	5220	16.90	17.60		24.00	24.00	-4.28	-1.51		Pass
HT20	MCS0	1	48	5240	16.90	17.60		24.00	24.00	-4.28	-1.51		Pass
HT40	MCS0	1	38	5190	16.90	17.70		24.00	24.00	-4.28	-1.51		Pass
HT40	MCS0	1	46	5230	16.70	17.90		24.00	24.00	-4.28	-1.51		Pass
VHT20	MCS0	1	36	5180	17.10	17.60		24.00	24.00	-4.28	-1.51		Pass
VHT20	MCS0	1	44	5220	16.90	17.60		24.00	24.00	-4.28	-1.51		Pass
VHT20	MCS0	1	48	5240	16.90	17.60		24.00	24.00	-4.28	-1.51		Pass
VHT40	MCS0	1	38	5190	16.90	17.70		24.00	24.00	-4.28	-1.51		Pass
VHT40	MCS0	1	46	5230	16.70	17.90		24.00	24.00	-4.28	-1.51		Pass
VHT80	MCS0	1	42	5210	16.90	17.70		24.00	24.00	-4.28	-1.51		Pass

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	17.10	18.00	20.58	24.00		-1.51			Pass
11a	6Mbps	2	44	5220	17.10	18.20	20.70	24.00		-1.51			Pass
11a	6Mbps	2	48	5240	17.30	18.20	20.78	24.00		-1.51			Pass
HT20	MCS0	2	36	5180	17.20	18.00	20.63	24.00		-1.51			Pass
HT20	MCS0	2	44	5220	17.00	18.00	20.54	24.00		-1.51			Pass
HT20	MCS0	2	48	5240	17.00	18.00	20.54	24.00		-1.51			Pass
HT40	MCS0	2	38	5190	17.00	18.30	20.71	24.00		-1.51			Pass
HT40	MCS0	2	46	5230	16.80	18.10	20.51	24.00		-1.51			Pass
VHT20	MCS0	2	36	5180	17.20	18.00	20.63	24.00		-1.51			Pass
VHT20	MCS0	2	44	5220	17.00	18.00	20.54	24.00		-1.51			Pass
VHT20	MCS0	2	48	5240	17.00	18.00	20.54	24.00		-1.51			Pass
VHT40	MCS0	2	38	5190	17.00	18.30	20.71	24.00		-1.51			Pass
VHT40	MCS0	2	46	5230	16.80	18.10	20.51	24.00		-1.51			Pass
VHT80	MCS0	2	42	5210	17.00	18.10	20.60	24.00		-1.51			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			10.12	11.00		0.23			Pass
11a	6Mbps	2	44	5220			10.38	11.00		0.23			Pass
11a	6Mbps	2	48	5240			10.32	11.00		0.23			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	16.33	16.38	20.43	20.08	23.13		29.13		23.98		
11a	6Mbps	2	60	5300	16.38	16.38	20.43	20.93	23.14		29.14		23.98		
11a	6Mbps	2	64	5320	16.33	16.38	20.48	20.23	23.13		29.13		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
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	1	52	5260	17.10	17.70		23.98	23.98	-4.28	-3.22	26.99	Pass
11a	6Mbps	1	60	5300	17.20	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
11a	6Mbps	1	64	5320	17.10	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
HT20	MCS0	1	52	5260	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
HT20	MCS0	1	60	5300	16.90	17.70		23.98	23.98	-4.28	-3.22	26.99	Pass
HT20	MCS0	1	64	5320	16.80	17.60		23.98	23.98	-4.28	-3.22	26.99	Pass
HT40	MCS0	1	54	5270	17.10	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HT40	MCS0	1	62	5310	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT20	MCS0	1	52	5260	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT20	MCS0	1	60	5300	16.90	17.70		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT20	MCS0	1	64	5320	16.80	17.60		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT40	MCS0	1	54	5270	17.10	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT40	MCS0	1	62	5310	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
VHT80	MCS0	1	58	5290	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass

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	17.20	18.10	20.68	23.98		-3.22		26.99	Pass
11a	6Mbps	2	60	5300	17.30	18.40	20.90	23.98		-3.22		26.99	Pass
11a	6Mbps	2	64	5320	17.20	18.30	20.80	23.98		-3.22		26.99	Pass
HT20	MCS0	2	52	5260	17.10	17.90	20.53	23.98		-3.22		26.99	Pass
HT20	MCS0	2	60	5300	17.00	18.30	20.71	23.98		-3.22		26.99	Pass
HT20	MCS0	2	64	5320	16.90	18.10	20.55	23.98		-3.22		26.99	Pass
HT40	MCS0	2	54	5270	17.20	18.10	20.68	23.98		-3.22		26.99	Pass
HT40	MCS0	2	62	5310	17.10	18.40	20.81	23.98		-3.22		26.99	Pass
VHT20	MCS0	2	52	5260	17.10	17.90	20.53	23.98		-3.22		26.99	Pass
VHT20	MCS0	2	60	5300	17.00	18.30	20.71	23.98		-3.22		26.99	Pass
VHT20	MCS0	2	64	5320	16.90	18.10	20.55	23.98		-3.22		26.99	Pass
VHT40	MCS0	2	54	5270	17.20	18.10	20.68	23.98		-3.22		26.99	Pass
VHT40	MCS0	2	62	5310	17.10	18.40	20.81	23.98		-3.22		26.99	Pass
VHT80	MCS0	2	58	5290	17.10	17.90	20.53	23.98		-3.22		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			10.07	11.00		-0.72			Pass
11a	6Mbps	2	60	5300			10.33	11.00		-0.72			Pass
11a	6Mbps	2	64	5320			10.43	11.00		-0.72			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	16.33	16.38	20.15	20.90	23.13		29.13		23.98		----	----
11a	6Mbps	2	116	5580	16.33	16.38	19.95	20.80	23.13		29.13		23.98		----	----
11a	6Mbps	2	140	5700	16.38	16.38	20.40	20.25	23.14		29.14		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	13.19	13.19	15.25	15.45	22.20		28.20		22.83		3.142	3.192

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TEST RESULTS DATA
Average Power Table

FCC Band III single antenna													
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	1	100	5500	17.00	17.60		23.98	23.98	-1.80	-5.64	26.99	Pass
11a	6Mbps	1	116	5580	16.90	17.60		23.98	23.98	-1.80	-5.64	26.99	Pass
11a	6Mbps	1	140	5700	17.00	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HT20	MCS0	1	100	5500	17.20	17.50		23.98	23.98	-1.80	-5.64	26.99	Pass
HT20	MCS0	1	116	5580	17.00	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HT20	MCS0	1	140	5700	17.10	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HT40	MCS0	1	102	5510	16.90	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HT40	MCS0	1	110	5550	17.10	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HT40	MCS0	1	134	5670	16.90	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT20	MCS0	1	100	5500	17.20	17.50		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT20	MCS0	1	116	5580	17.00	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT20	MCS0	1	140	5700	17.10	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT40	MCS0	1	102	5510	16.90	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT40	MCS0	1	110	5550	17.10	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT40	MCS0	1	134	5670	16.90	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT80	MCS0	1	106	5530	17.00	17.60		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT80	MCS0	1	122	5610	16.90	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass

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	17.10	18.00	20.58	23.98		-1.80		26.99	Pass
11a	6Mbps	2	116	5580	17.00	18.10	20.60	23.98		-1.80		26.99	Pass
11a	6Mbps	2	140	5700	17.10	18.20	20.70	23.98		-1.80		26.99	Pass
HT20	MCS0	2	100	5500	17.30	18.00	20.67	23.98		-1.80		26.99	Pass
HT20	MCS0	2	116	5580	17.10	18.20	20.70	23.98		-1.80		26.99	Pass
HT20	MCS0	2	140	5700	17.20	18.30	20.80	23.98		-1.80		26.99	Pass
HT40	MCS0	2	102	5510	17.00	18.00	20.54	23.98		-1.80		26.99	Pass
HT40	MCS0	2	110	5550	17.20	18.10	20.68	23.98		-1.80		26.99	Pass
HT40	MCS0	2	134	5670	17.00	18.20	20.65	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	100	5500	17.30	18.00	20.67	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	116	5580	17.10	18.20	20.70	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	140	5700	17.20	18.30	20.80	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	102	5510	17.00	18.00	20.54	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	110	5550	17.20	18.10	20.68	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	134	5670	17.00	18.20	20.65	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	106	5530	17.10	18.10	20.64	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	122	5610	17.00	18.20	20.65	23.98		-1.80		26.99	Pass

FCC Band III straddle channel single antenna														
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	1	144	5720	17.00	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HT20	MCS0	1	144	5720	17.10	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HT40	MCS0	1	142	5710	16.90	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT20	MCS0	1	144	5720	17.10	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT40	MCS0	1	142	5710	16.90	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
VHT80	MCS0	1	138	5690	16.80	17.90		23.98	23.98	-1.80	-5.64	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	17.10	18.30	20.75	22.83		-1.80		26.99	Pass
HT20	MCS0	2	144	5720	17.20	18.20	20.74	23.98		-1.80		26.99	Pass
HT40	MCS0	2	142	5710	17.00	18.00	20.54	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	144	5720	17.20	18.20	20.74	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	142	5710	17.00	18.00	20.54	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	138	5690	16.90	18.00	20.50	23.98		-1.80		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			9.90	11.00		-0.50			Pass
11a	6Mbps	2	116	5580			10.34	11.00		-0.50			Pass
11a	6Mbps	2	140	5700			10.26	11.00		-0.50			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			10.22	11.00		-0.50			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	36	5180	Full	18.88	18.88	22.23	22.08	-		22.76			
HE20	MCS0	2	44	5220	Full	18.88	18.83	22.03	22.43	-		22.75			
HE20	MCS0	2	48	5240	Full	18.88	18.88	22.28	22.18	-		22.76			
HE40	MCS0	2	38	5190	Full	37.96	37.86	41.23	41.54	-		23.01			
HE40	MCS0	2	46	5230	Full	37.76	37.86	41.27	41.45	-		23.01			
HE80	MCS0	2	42	5210	Full	77.92	78.04	82.08	82.40	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	36	5180	Full	17.20	17.70		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	36	5180	26/0	7.90	8.90		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	36	5180	52/37	8.20	9.00		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	36	5180	106/53	8.50	9.10		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	44	5220	Full	17.00	17.70		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	44	5220	26/4	8.50	9.20		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	44	5220	52/39	8.60	9.40		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	44	5220	106/53	8.80	9.50		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	48	5240	Full	17.00	17.70		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	48	5240	26/8	8.30	8.60		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	48	5240	52/40	8.60	8.80		24.00	24.00	-4.28	-1.51		Pass
HE20	MCS0	1	48	5240	106/54	8.80	9.00		24.00	24.00	-4.28	-1.51		Pass
HE40	MCS0	1	38	5190	Full	17.00	17.80		24.00	24.00	-4.28	-1.51		Pass
HE40	MCS0	1	38	5190	242/61	14.70	15.30		24.00	24.00	-4.28	-1.51		Pass
HE40	MCS0	1	46	5230	Full	16.80	17.70		24.00	24.00	-4.28	-1.51		Pass
HE40	MCS0	1	46	5230	242/62	14.10	14.90		24.00	24.00	-4.28	-1.51		Pass
HE80	MCS0	1	42	5210	Full	17.00	17.80		24.00	24.00	-4.28	-1.51		Pass
HE80	MCS0	1	42	5210	484/65	12.50	13.20		24.00	24.00	-4.28	-1.51		Pass

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	17.30	18.10	20.73	24.00		-1.51		Pass
HE20	MCS0	2	36	5180	26/0	8.10	9.20	11.70	24.00		-1.51		Pass
HE20	MCS0	2	36	5180	52/37	8.40	9.40	11.94	24.00		-1.51		Pass
HE20	MCS0	2	36	5180	106/53	8.60	9.70	12.20	24.00		-1.51		Pass
HE20	MCS0	2	44	5220	Full	17.10	18.10	20.64	24.00		-1.51		Pass
HE20	MCS0	2	44	5220	26/4	8.60	9.60	12.14	24.00		-1.51		Pass
HE20	MCS0	2	44	5220	52/39	8.90	9.80	12.38	24.00		-1.51		Pass
HE20	MCS0	2	44	5220	106/53	8.90	9.90	12.44	24.00		-1.51		Pass
HE20	MCS0	2	48	5240	Full	17.10	18.10	20.64	24.00		-1.51		Pass
HE20	MCS0	2	48	5240	26/8	8.40	9.00	11.72	24.00		-1.51		Pass
HE20	MCS0	2	48	5240	52/40	8.70	9.30	12.02	24.00		-1.51		Pass
HE20	MCS0	2	48	5240	106/54	8.90	9.60	12.27	24.00		-1.51		Pass
HE40	MCS0	2	38	5190	Full	17.10	18.40	20.81	24.00		-1.51		Pass
HE40	MCS0	2	38	5190	242/61	14.80	15.70	18.28	24.00		-1.51		Pass
HE40	MCS0	2	46	5230	Full	16.90	18.20	20.61	24.00		-1.51		Pass
HE40	MCS0	2	46	5230	242/62	14.50	15.30	17.93	24.00		-1.51		Pass
HE80	MCS0	2	42	5210	Full	17.10	18.20	20.70	24.00		-1.51		Pass
HE80	MCS0	2	42	5210	484/65	12.60	13.60	16.14	24.00		-1.51		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	36	5180	Full			10.00	11.00		0.23			Pass
HE20	MCS0	2	36	5180	26/0			9.88	11.00		0.23			Pass
HE20	MCS0	2	44	5220	Full			10.06	11.00		0.23			Pass
HE20	MCS0	2	44	5220	26/4			9.57	11.00		0.23			Pass
HE20	MCS0	2	48	5240	Full			10.20	11.00		0.23			Pass
HE20	MCS0	2	48	5240	26/8			10.05	11.00		0.23			Pass
HE40	MCS0	2	38	5190	Full			5.82	11.00		0.23			Pass
HE40	MCS0	2	38	5190	242/61			5.80	11.00		0.23			Pass
HE40	MCS0	2	46	5230	Full			6.26	11.00		0.23			Pass
HE40	MCS0	2	46	5230	242/62			5.92	11.00		0.23			Pass
HE80	MCS0	2	42	5210	Full			3.45	11.00		0.23			Pass
HE80	MCS0	2	42	5210	484/65			3.41	11.00		0.23			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		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	
HE20	MCS0	2	52	5260	Full	18.88	18.83	22.00	21.95	23.75		29.75		23.98		
HE20	MCS0	2	60	5300	Full	18.88	18.88	22.15	22.25	23.76		29.76		23.98		
HE20	MCS0	2	64	5320	Full	18.88	18.88	22.15	22.35	23.76		29.76		23.98		
HE40	MCS0	2	54	5270	Full	37.96	37.96	41.27	40.99	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.76	37.86	41.18	41.27	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	78.04	77.92	82.56	82.72	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	1	52	5260	Full	17.10	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	52	5260	26/0	7.90	8.40		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	52	5260	52/37	8.20	8.70		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	52	5260	106/53	8.40	9.00		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	60	5300	Full	17.00	17.80		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	60	5300	26/4	8.70	9.60		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	60	5300	52/39	9.10	9.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	60	5300	106/54	9.40	10.00		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	64	5320	Full	16.90	17.70		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	64	5320	26/8	8.10	8.20		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	64	5320	52/40	8.30	8.60		23.98	23.98	-4.28	-3.22	26.99	Pass
HE20	MCS0	1	64	5320	106/54	8.60	8.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HE40	MCS0	1	54	5270	Full	17.20	17.70		23.98	23.98	-4.28	-3.22	26.99	Pass
HE40	MCS0	1	54	5270	242/61	14.10	14.60		23.98	23.98	-4.28	-3.22	26.99	Pass
HE40	MCS0	1	62	5310	Full	17.10	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HE40	MCS0	1	62	5310	242/62	14.70	15.10		23.98	23.98	-4.28	-3.22	26.99	Pass
HE80	MCS0	1	58	5290	Full	17.10	17.90		23.98	23.98	-4.28	-3.22	26.99	Pass
HE80	MCS0	1	58	5290	484/66	11.90	12.00		23.98	23.98	-4.28	-3.22	26.99	Pass

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	2	52	5260	Full	17.20	18.00	20.63	23.98		-3.22		26.99	Pass
HE20	MCS0	2	52	5260	26/0	8.10	8.80	11.47	23.98		-3.22		26.99	Pass
HE20	MCS0	2	52	5260	52/37	8.30	9.10	11.73	23.98		-3.22		26.99	Pass
HE20	MCS0	2	52	5260	106/53	8.50	9.30	11.93	23.98		-3.22		26.99	Pass
HE20	MCS0	2	60	5300	Full	17.10	18.40	20.81	23.98		-3.22		26.99	Pass
HE20	MCS0	2	60	5300	26/4	8.90	10.00	12.50	23.98		-3.22		26.99	Pass
HE20	MCS0	2	60	5300	52/39	9.30	10.30	12.84	23.98		-3.22		26.99	Pass
HE20	MCS0	2	60	5300	106/54	9.50	10.50	13.04	23.98		-3.22		26.99	Pass
HE20	MCS0	2	64	5320	Full	17.00	18.20	20.65	23.98		-3.22		26.99	Pass
HE20	MCS0	2	64	5320	26/8	8.20	8.70	11.47	23.98		-3.22		26.99	Pass
HE20	MCS0	2	64	5320	52/40	8.50	9.00	11.77	23.98		-3.22		26.99	Pass
HE20	MCS0	2	64	5320	106/54	8.70	9.30	12.02	23.98		-3.22		26.99	Pass
HE40	MCS0	2	54	5270	Full	17.30	18.20	20.78	23.98		-3.22		26.99	Pass
HE40	MCS0	2	54	5270	242/61	14.60	15.10	17.87	23.98		-3.22		26.99	Pass
HE40	MCS0	2	62	5310	Full	17.20	18.50	20.91	23.98		-3.22		26.99	Pass
HE40	MCS0	2	62	5310	242/62	14.80	15.50	18.17	23.98		-3.22		26.99	Pass
HE80	MCS0	2	58	5290	Full	17.20	18.00	20.63	23.98		-3.22		26.99	Pass
HE80	MCS0	2	58	5290	484/66	12.00	12.30	15.16	23.98		-3.22		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full			9.89	11.00		-0.72			Pass
HE20	MCS0	2	52	5260	26/0			9.55	11.00		-0.72			Pass
HE20	MCS0	2	60	5300	Full			10.31	11.00		-0.72			Pass
HE20	MCS0	2	60	5300	26/4			9.90	11.00		-0.72			Pass
HE20	MCS0	2	64	5320	Full			9.85	11.00		-0.72			Pass
HE20	MCS0	2	64	5320	26/8			9.54	11.00		-0.72			Pass
HE40	MCS0	2	54	5270	Full			5.83	11.00		-0.72			Pass
HE40	MCS0	2	54	5270	242/61			5.41	11.00		-0.72			Pass
HE40	MCS0	2	62	5310	Full			6.31	11.00		-0.72			Pass
HE40	MCS0	2	62	5310	242/62			5.98	11.00		-0.72			Pass
HE80	MCS0	2	58	5290	Full			3.33	11.00		-0.72			Pass
HE80	MCS0	2	58	5290	484/66			3.04	11.00		-0.72			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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
HE20	MCS0	2	100	5500	Full	18.88	18.88	22.05	22.40	23.76		29.76		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.88	18.88	22.05	22.15	23.76		29.76		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.88	18.88	22.15	22.30	23.76		29.76		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	37.96	41.36	41.36	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.86	41.27	41.36	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.86	37.76	41.22	41.13	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	78.28	78.16	82.56	82.24	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	78.16	78.16	82.24	83.04	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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
HE20	MCS0	2	144	5720	Full	14.44	14.44	16.10	16.05	22.60		28.60		23.05		-	-
HE40	MCS0	2	142	5710	Full	33.88	33.88	35.61	35.79	23.98		30.00		23.98		-	-
HE80	MCS0	2	138	5690	Full	74.08	74.08	76.28	76.12	23.98		30.00		23.98		-	-

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	1	100	5500	Full	17.30	17.60		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	100	5500	26/0	9.00	9.30		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	100	5500	52/37	9.20	9.60		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	100	5500	106/53	9.40	9.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	116	5580	Full	17.10	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	116	5580	26/4	9.00	9.60		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	116	5580	52/38	9.30	10.00		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	116	5580	106/53	9.50	10.10		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	140	5700	Full	17.20	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	140	5700	26/8	7.80	8.40		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	140	5700	52/40	8.00	8.60		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	140	5700	106/54	8.10	8.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	102	5510	Full	17.00	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	102	5510	242/61	14.20	14.50		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	110	5550	Full	17.20	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	110	5550	242/61	14.20	14.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	134	5670	Full	17.00	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	134	5670	242/62	14.50	14.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	106	5530	Full	17.10	17.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	106	5530	484/65	11.90	12.10		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	122	5610	Full	17.00	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	122	5610	484/66	12.60	12.70		23.98	23.98	-1.80	-5.64	26.99	Pass

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	2	100	5500	Full	17.40	18.10	20.77	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	26/0	9.10	9.80	12.47	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	52/37	9.30	10.00	12.67	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	106/53	9.50	10.30	12.93	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	Full	17.20	18.30	20.80	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	26/4	9.20	10.10	12.68	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	52/38	9.50	10.30	12.93	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	106/53	9.70	10.50	13.13	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	Full	17.30	18.40	20.90	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	26/8	8.10	8.70	11.42	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	52/40	8.30	8.90	11.62	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	106/54	8.50	9.20	11.87	23.98		-1.80		26.99	Pass
HE40	MCS0	2	102	5510	Full	17.10	18.10	20.64	23.98		-1.80		26.99	Pass
HE40	MCS0	2	102	5510	242/61	14.30	14.90	17.62	23.98		-1.80		26.99	Pass
HE40	MCS0	2	110	5550	Full	17.30	18.20	20.78	23.98		-1.80		26.99	Pass
HE40	MCS0	2	110	5550	242/61	14.40	15.10	17.77	23.98		-1.80		26.99	Pass
HE40	MCS0	2	134	5670	Full	17.10	18.30	20.75	23.98		-1.80		26.99	Pass
HE40	MCS0	2	134	5670	242/62	14.70	15.10	17.91	23.98		-1.80		26.99	Pass
HE80	MCS0	2	106	5530	Full	17.20	18.20	20.74	23.98		-1.80		26.99	Pass
HE80	MCS0	2	106	5530	484/65	12.10	12.50	15.31	23.98		-1.80		26.99	Pass
HE80	MCS0	2	122	5610	Full	17.10	18.30	20.75	23.98		-1.80		26.99	Pass
HE80	MCS0	2	122	5610	484/66	12.70	13.10	15.91	23.98		-1.80		26.99	Pass

FCC Band III straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	1	144	5720	Full	17.20	17.80		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	144	5720	26/8	7.70	8.40		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	144	5720	52/40	8.00	8.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE20	MCS0	1	144	5720	106/54	8.30	8.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	142	5710	Full	17.00	17.90		23.98	23.98	-1.80	-5.64	26.99	Pass
HE40	MCS0	1	142	5710	242/62	14.40	14.70		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	138	5690	Full	16.90	18.00		23.98	23.98	-1.80	-5.64	26.99	Pass
HE80	MCS0	1	138	5690	484/66	12.10	12.30		23.98	23.98	-1.80	-5.64	26.99	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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		
HE20	MCS0	2	144	5720	Full	17.30	18.30	20.84	23.05		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	26/8	8.10	8.70	11.42	23.05		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	52/40	8.40	9.00	11.72	23.05		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	106/54	8.70	9.30	12.02	23.05		-1.80		26.99	Pass
HE40	MCS0	2	142	5710	Full	17.10	18.10	20.64	23.98		-1.80		26.99	Pass
HE40	MCS0	2	142	5710	242/62	14.60	15.10	17.87	23.98		-1.80		26.99	Pass
HE80	MCS0	2	138	5690	Full	17.00	18.10	20.60	23.98		-1.80		26.99	Pass
HE80	MCS0	2	138	5690	484/66	12.50	12.70	15.61	23.98		-1.80		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	100	5500	Full			10.70	11.00		-0.50		Pass
HE20	MCS0	2	100	5500	26/0			10.68	11.00		-0.50		Pass
HE20	MCS0	2	116	5580	Full			10.84	11.00		-0.50		Pass
HE20	MCS0	2	116	5580	26/4			10.35	11.00		-0.50		Pass
HE20	MCS0	2	140	5700	Full			9.83	11.00		-0.50		Pass
HE20	MCS0	2	140	5700	26/8			9.46	11.00		-0.50		Pass
HE40	MCS0	2	102	5510	Full			5.72	11.00		-0.50		Pass
HE40	MCS0	2	102	5510	242/61			5.58	11.00		-0.50		Pass
HE40	MCS0	2	110	5550	Full			5.68	11.00		-0.50		Pass
HE40	MCS0	2	110	5550	242/61			5.29	11.00		-0.50		Pass
HE40	MCS0	2	134	5670	Full			6.34	11.00		-0.50		Pass
HE40	MCS0	2	134	5670	242/62			5.95	11.00		-0.50		Pass
HE80	MCS0	2	106	5530	Full			3.48	11.00		-0.50		Pass
HE80	MCS0	2	106	5530	484/65			3.05	11.00		-0.50		Pass
HE80	MCS0	2	122	5610	Full			3.73	11.00		-0.50		Pass
HE80	MCS0	2	122	5610	484/66			3.66	11.00		-0.50		Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	144	5720	Full			10.56	11.00		-0.50		Pass
HE40	MCS0	2	144	5720	26/8			10.05	11.00		-0.50		Pass
HE40	MCS0	2	142	5710	Full			5.84	11.00		-0.50		Pass
HE40	MCS0	2	142	5710	242/62			5.80	11.00		-0.50		Pass
HE80	MCS0	2	138	5690	Full			3.48	11.00		-0.50		Pass
HE80	MCS0	2	138	5690	484/66			3.34	11.00		-0.50		Pass

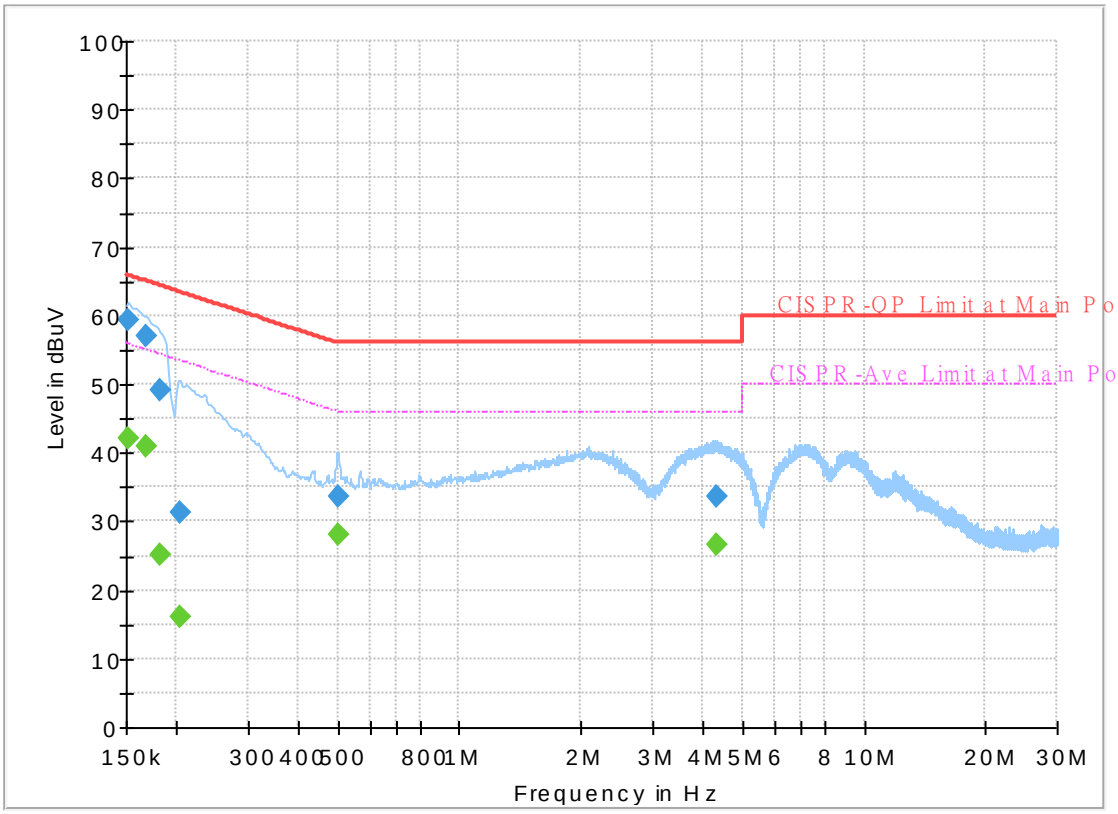
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	24~26℃
		Relative Humidity :	42~50%

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



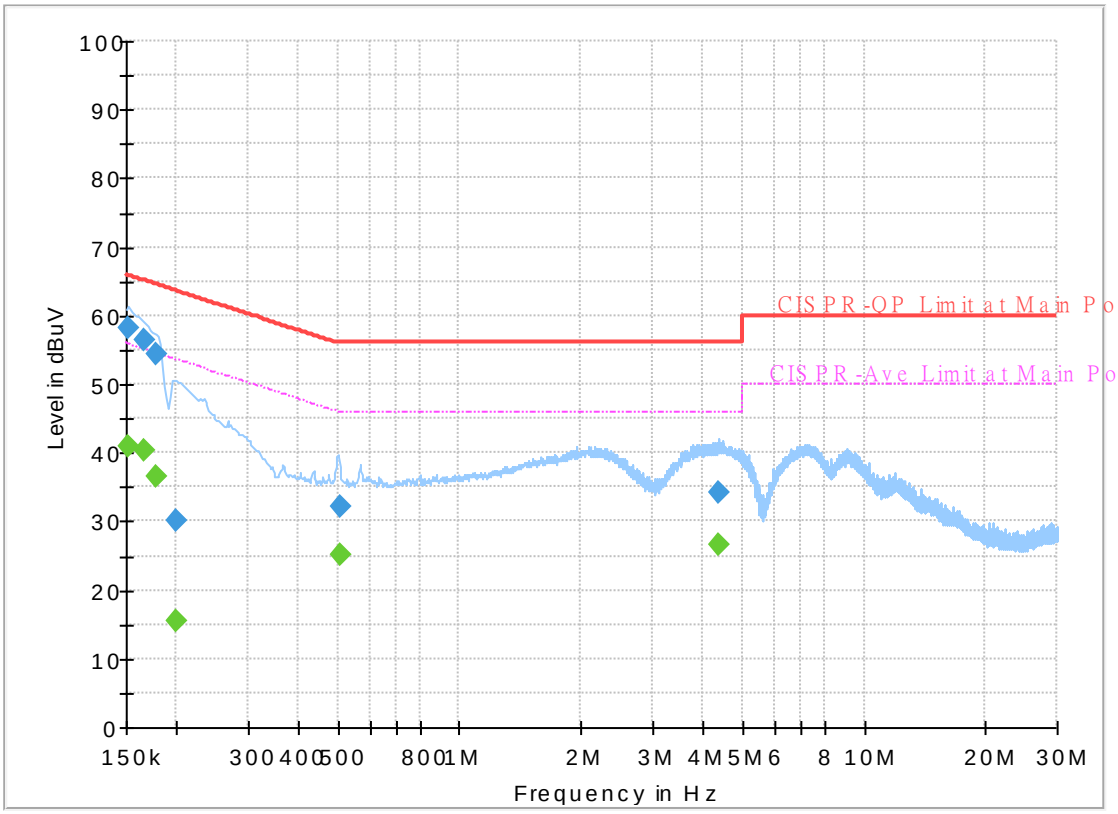
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	42.21	55.88	13.67	L1	OFF	19.5
0.152250	59.25	---	65.88	6.63	L1	OFF	19.5
0.168000	---	40.80	55.06	14.26	L1	OFF	19.5
0.168000	56.96	---	65.06	8.10	L1	OFF	19.5
0.181500	---	25.12	54.42	29.30	L1	OFF	19.5
0.181500	48.98	---	64.42	15.44	L1	OFF	19.5
0.204000	---	16.02	53.45	37.43	L1	OFF	19.5
0.204000	31.24	---	63.45	32.21	L1	OFF	19.5
0.502440	---	28.10	46.00	17.90	L1	OFF	19.5
0.502440	33.77	---	56.00	22.23	L1	OFF	19.5
4.321500	---	26.63	46.00	19.37	L1	OFF	19.6
4.321500	33.64	---	56.00	22.36	L1	OFF	19.6

EUT Information

Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	40.84	55.88	15.04	N	OFF	19.5
0.152250	58.11	---	65.88	7.77	N	OFF	19.5
0.165750	---	40.49	55.17	14.68	N	OFF	19.5
0.165750	56.35	---	65.17	8.82	N	OFF	19.5
0.177000	---	36.41	54.63	18.22	N	OFF	19.5
0.177000	54.30	---	64.63	10.33	N	OFF	19.5
0.199500	---	15.53	53.63	38.10	N	OFF	19.5
0.199500	30.05	---	63.63	33.58	N	OFF	19.5
0.505500	---	25.12	46.00	20.88	N	OFF	19.5
0.505500	32.19	---	56.00	23.81	N	OFF	19.5
4.362000	---	26.72	46.00	19.28	N	OFF	19.6
4.362000	34.19	---	56.00	21.81	N	OFF	19.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	22~23°C
		Relative Humidity :	51~58%

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		5117.52	48.78	-25.22	74	38.35	34.33	11.53	35.43	100	280	P	H
		5148.2	39.35	-14.65	54	28.81	34.4	11.56	35.42	100	280	A	H
	*	5180	105.74	-	-	95.1	34.47	11.58	35.41	100	280	P	H
	*	5180	97.94	-	-	87.3	34.47	11.58	35.41	100	280	A	H
													H
													H
		5149.24	47.71	-26.29	74	37.17	34.4	11.56	35.42	100	328	P	V
		5150.02	39.69	-14.31	54	29.15	34.4	11.56	35.42	100	328	A	V
	*	5180	105.44	-	-	94.8	34.47	11.58	35.41	100	328	P	V
	*	5180	98.14	-	-	87.5	34.47	11.58	35.41	100	328	A	V
													V
													V
802.11a CH 44 5220MHz		5140.4	48.47	-25.53	74	37.94	34.4	11.55	35.42	100	281	P	H
		5108.68	38.63	-15.37	54	28.21	34.33	11.52	35.43	100	281	A	H
	*	5220	105.81	-	-	95.09	34.5	11.62	35.4	100	281	P	H
	*	5220	98.43	-	-	87.71	34.5	11.62	35.4	100	281	A	H
		5391.68	46.59	-27.41	74	35.5	34.63	11.8	35.34	100	281	P	H
		5458.32	37.76	-16.24	54	26.49	34.7	11.88	35.31	100	281	A	H
		5049.92	47.71	-26.29	74	37.59	34.1	11.47	35.45	101	5	P	V
		5096.46	38.57	-15.43	54	28.2	34.3	11.51	35.44	101	5	A	V
	*	5220	104.93	-	-	94.21	34.5	11.62	35.4	101	5	P	V
	*	5220	97.63	-	-	86.91	34.5	11.62	35.4	101	5	A	V
		5367.6	47.48	-26.52	74	36.48	34.57	11.78	35.35	101	5	P	V
		5460	37.83	-16.17	54	26.56	34.7	11.88	35.31	101	5	A	V

802.11a CH 48 5240MHz		5134.94	47.8	-26.2	74	37.31	34.37	11.54	35.42	101	276	P	H
		5113.36	38.66	-15.34	54	28.23	34.33	11.53	35.43	101	276	A	H
	*	5240	105.15	-	-	94.4	34.5	11.64	35.39	101	276	P	H
	*	5240	97.35	-	-	86.6	34.5	11.64	35.39	101	276	A	H
		5459.44	47.04	-26.96	74	35.77	34.7	11.88	35.31	101	276	P	H
		5460	37.83	-16.17	54	26.56	34.7	11.88	35.31	101	276	A	H
		5064.22	47.5	-26.5	74	37.3	34.17	11.48	35.45	112	7	P	V
		5121.94	38.64	-15.36	54	28.21	34.33	11.53	35.43	112	7	A	V
	*	5240	105.18	-	-	94.43	34.5	11.64	35.39	112	7	P	V
	*	5240	97.37	-	-	86.62	34.5	11.64	35.39	112	7	A	V
		5418.56	47.68	-26.32	74	36.48	34.7	11.83	35.33	112	7	P	V
		5460	37.83	-16.17	54	26.56	34.7	11.88	35.31	112	7	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	49.19	-19.01	68.2	53.17	37.47	17.58	59.03	100	0	P	H
		15540	48.75	-25.25	74	43.77	40.1	21.65	56.77	100	0	P	H
													H
													H
		10360	49.23	-18.97	68.2	53.21	37.47	17.58	59.03	100	0	P	V
		15540	53.95	-20.05	74	48.97	40.1	21.65	56.77	102	76	P	V
													V
													V
802.11a CH 44 5220MHz		10440	51.26	-16.94	68.2	55.05	37.53	17.65	58.97	100	0	P	H
		15660	48.14	-25.86	74	42.71	40.45	21.73	56.75	100	0	P	H
													H
													H
		10440	51.09	-17.11	68.2	54.88	37.53	17.65	58.97	100	0	P	V
		15660	54.3	-19.7	74	48.87	40.45	21.73	56.75	112	76	P	V
													V
													V
802.11a CH 48 5240MHz		10480	50.98	-17.22	68.2	54.66	37.58	17.68	58.94	100	0	P	H
		15720	51.3	-22.7	74	45.7	40.58	21.76	56.74	100	169	P	H
		15720	43.43	-10.57	54	37.83	40.58	21.76	56.74	100	169	A	H
													H
		10480	51.45	-16.75	68.2	55.13	37.58	17.68	58.94	100	0	P	V
		15720	56.28	-17.72	74	50.68	40.58	21.76	56.74	101	186	P	V
		15720	48.06	-5.94	54	42.46	40.58	21.76	56.74	101	186	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 1+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)
		5145.6	48.12	-25.88	74	37.59	34.4	11.55	35.42	100	280	P	H
		5146.38	39.52	-14.48	54	28.99	34.4	11.55	35.42	100	280	A	H
	*	5180	106.67	-	-	96.03	34.47	11.58	35.41	100	280	P	H
	*	5180	97.44	-	-	86.8	34.47	11.58	35.41	100	280	A	H
802.11ax													H
HE20 Full													H
CH 36		5148.46	48.66	-25.34	74	38.12	34.4	11.56	35.42	100	328	P	V
5180MHz		5150	40.62	-13.38	54	30.08	34.4	11.56	35.42	100	328	A	V
	*	5180	106.6	-	-	95.96	34.47	11.58	35.41	100	328	P	V
	*	5180	97.35	-	-	86.71	34.47	11.58	35.41	100	328	A	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (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	51.53	-16.67	68.2	55.51	37.47	17.58	59.03	100	0	P	H
		15540	49.96	-24.04	74	44.98	40.1	21.65	56.77	100	0	P	H
802.11ax													H
HE20 Full													H
CH 36		10360	49.36	-18.84	68.2	53.34	37.47	17.58	59.03	100	0	P	V
5180MHz		15540	54.6	-19.4	74	49.62	40.1	21.65	56.77	102	76	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

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

WIFI Ant. 1+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)
		5146.38	57.06	-16.94	74	46.53	34.4	11.55	35.42	117	283	P	H
		5146.9	47.67	-6.33	54	37.14	34.4	11.55	35.42	117	283	A	H
	*	5190	104.35	-	-	93.7	34.47	11.59	35.41	117	283	P	H
	*	5190	95.7	-	-	85.05	34.47	11.59	35.41	117	283	A	H
802.11ax		5393.36	46.61	-27.39	74	35.52	34.63	11.8	35.34	117	283	P	H
HE40 Full		5459.72	37.78	-16.22	54	26.51	34.7	11.88	35.31	117	283	A	H
CH 38		5150	54.89	-19.11	74	44.35	34.4	11.56	35.42	100	328	P	V
5190MHz		5150	48.77	-5.23	54	38.23	34.4	11.56	35.42	100	328	A	V
	*	5190	104.35	-	-	93.7	34.47	11.59	35.41	100	328	P	V
	*	5190	94.85	-	-	84.2	34.47	11.59	35.41	100	328	A	V
		5350.52	46.85	-27.15	74	35.94	34.5	11.76	35.35	100	328	P	V
		5459.72	37.78	-16.22	54	26.51	34.7	11.88	35.31	100	328	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (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)
		5147.68	60.88	-13.12	74	50.34	34.4	11.56	35.42	100	281	P	H
		5147.16	51.53	-2.47	54	40.99	34.4	11.56	35.42	100	281	A	H
	*	5210	99.98	-	-	89.27	34.5	11.61	35.4	100	281	P	H
	*	5210	92.31	-	-	81.6	34.5	11.61	35.4	100	281	A	H
802.11ax		5391.4	46.51	-27.49	74	35.42	34.63	11.8	35.34	100	281	P	H
HE80 Full		5460	37.81	-16.19	54	26.54	34.7	11.88	35.31	100	281	A	H
CH 42		5146.12	57.3	-16.7	74	46.77	34.4	11.55	35.42	100	314	P	V
5210MHz		5143.26	50.82	-3.18	54	40.29	34.4	11.55	35.42	100	314	A	V
	*	5210	100.39	-	-	89.68	34.5	11.61	35.4	100	314	P	V
	*	5210	91.59	-	-	80.88	34.5	11.61	35.4	100	314	A	V
		5376.56	47.25	-26.75	74	36.23	34.57	11.79	35.34	100	314	P	V
		5460	37.81	-16.19	54	26.54	34.7	11.88	35.31	100	314	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		5130.9	47.73	-26.27	74	37.25	34.37	11.54	35.43	106	282	P	H
		5124.25	38.76	-15.24	54	28.28	34.37	11.54	35.43	106	282	A	H
	*	5260	105.25	-	-	94.4	34.57	11.66	35.38	106	282	P	H
	*	5260	97.55	-	-	86.7	34.57	11.66	35.38	106	282	A	H
		5379.12	46.84	-27.16	74	35.76	34.63	11.79	35.34	106	282	P	H
		5458.8	37.89	-16.11	54	26.62	34.7	11.88	35.31	106	282	A	H
		5053.55	47.74	-26.26	74	37.61	34.1	11.48	35.45	103	0	P	V
		5111.65	38.59	-15.41	54	28.17	34.33	11.52	35.43	103	0	A	V
	*	5260	104.49	-	-	93.64	34.57	11.66	35.38	103	0	P	V
	*	5260	97.15	-	-	86.3	34.57	11.66	35.38	103	0	A	V
		5366.88	47.6	-26.4	74	36.6	34.57	11.78	35.35	103	0	P	V
		5460	37.88	-16.12	54	26.61	34.7	11.88	35.31	103	0	A	V
802.11a CH 60 5300MHz		5030.1	48.08	-25.92	74	37.98	34.1	11.46	35.46	104	276	P	H
		5148.75	38.63	-15.37	54	28.09	34.4	11.56	35.42	104	276	A	H
	*	5300	105.21	-	-	94.18	34.7	11.7	35.37	104	276	P	H
	*	5300	97.54	-	-	86.51	34.7	11.7	35.37	104	276	A	H
		5446.08	46.78	-27.22	74	35.54	34.7	11.86	35.32	104	276	P	H
		5459.04	38.02	-15.98	54	26.75	34.7	11.88	35.31	104	276	A	H
		5068.6	47.36	-26.64	74	37.15	34.17	11.49	35.45	100	360	P	V
		5144.55	38.55	-15.45	54	28.02	34.4	11.55	35.42	100	360	A	V
	*	5300	105.24	-	-	94.21	34.7	11.7	35.37	100	360	P	V
	*	5300	97.59	-	-	86.56	34.7	11.7	35.37	100	360	A	V
		5447.76	46.9	-27.1	74	35.66	34.7	11.86	35.32	100	360	P	V
		5459.04	38.03	-15.97	54	26.76	34.7	11.88	35.31	100	360	A	V

802.11a CH 64 5320MHz	*	5320	105.02	-	-	94.02	34.63	11.73	35.36	121	277	P	H
	*	5320	97.53	-	-	86.53	34.63	11.73	35.36	121	277	A	H
		5407.04	47.35	-26.65	74	36.16	34.7	11.82	35.33	121	277	P	H
		5351.2	39.15	-14.85	54	28.24	34.5	11.76	35.35	121	277	A	H
													H
													H
	*	5320	105.12	-	-	94.12	34.63	11.73	35.36	116	7	P	V
	*	5320	97.6	-	-	86.6	34.63	11.73	35.36	116	7	A	V
		5350.88	49.92	-24.08	74	39.01	34.5	11.76	35.35	116	7	P	V
		5350.72	40.15	-13.85	54	29.24	34.5	11.76	35.35	116	7	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	53.3	-14.9	68.2	56.92	37.6	17.7	58.92	100	0	P	H
		15780	51.82	-22.18	74	46.23	40.53	21.8	56.74	100	173	P	H
		15780	43.46	-10.54	54	37.87	40.53	21.8	56.74	100	173	A	H
													H
		10520	51.87	-16.33	68.2	55.49	37.6	17.7	58.92	100	0	P	V
		15780	54.67	-19.33	74	49.08	40.53	21.8	56.74	100	186	P	V
		15780	47.47	-6.53	54	41.88	40.53	21.8	56.74	100	186	A	V
													V
802.11a CH 60 5300MHz		10600	55.18	-18.82	74	58.7	37.6	17.76	58.88	100	23	P	H
		10600	46.83	-7.17	54	50.35	37.6	17.76	58.88	100	23	A	H
		15900	53.5	-20.5	74	47.53	40.8	21.89	56.72	100	174	P	H
		15900	45.87	-8.13	54	39.9	40.8	21.89	56.72	100	174	A	H
		10600	55.18	-18.82	74	58.7	37.6	17.76	58.88	100	19	P	V
		10600	47.43	-6.57	54	50.95	37.6	17.76	58.88	100	19	A	V
		15900	57.63	-16.37	74	51.66	40.8	21.89	56.72	105	70	P	V
		15900	49.71	-4.29	54	43.74	40.8	21.89	56.72	105	70	A	V
802.11a CH 64 5320MHz		10640	54.46	-19.54	74	57.9	37.63	17.79	58.86	100	20	P	H
		10640	47.14	-6.86	54	50.58	37.63	17.79	58.86	100	20	A	H
		15960	48.93	-25.07	74	42.91	40.8	21.93	56.71	100	0	P	H
													H
		10640	55.44	-18.56	74	58.88	37.63	17.79	58.86	100	17	P	V
		10640	47.81	-6.19	54	51.25	37.63	17.79	58.86	100	17	A	V
		15960	55.03	-18.97	74	49.01	40.8	21.93	56.71	100	180	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (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)
	*	5320	105.8	-	-	94.8	34.63	11.73	35.36	121	277	P	H
	*	5320	97.2	-	-	86.2	34.63	11.73	35.36	121	277	A	H
		5350.56	48.47	-25.53	74	37.56	34.5	11.76	35.35	121	277	P	H
		5352	40.15	-13.85	54	29.24	34.5	11.76	35.35	121	277	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	105.66	-	-	94.66	34.63	11.73	35.36	116	7	P	V
5320MHz	*	5320	97.3	-	-	86.3	34.63	11.73	35.36	116	7	A	V
		5351.84	48.04	-25.96	74	37.13	34.5	11.76	35.35	116	7	P	V
		5351.04	41.27	-12.73	54	30.36	34.5	11.76	35.35	116	7	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 802.11ax HE20 Full (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)
802.11ax HE20 Full CH 64 5320MHz		10640	55.46	-18.54	74	58.9	37.63	17.79	58.86	100	20	P	H
		10640	47.11	-6.89	54	50.55	37.63	17.79	58.86	100	20	A	H
		15960	53.59	-20.41	74	47.57	40.8	21.93	56.71	100	168	P	H
		15960	43.79	-10.21	54	37.77	40.8	21.93	56.71	100	168	A	H
		10640	56.82	-17.18	74	60.26	37.63	17.79	58.86	100	17	P	V
		10640	47.89	-6.11	54	51.33	37.63	17.79	58.86	100	17	A	V
		15960	55.26	-18.74	74	49.24	40.8	21.93	56.71	100	180	P	V
		15960	46.84	-7.16	54	40.82	40.8	21.93	56.71	100	180	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (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)
		5136.5	48.16	-25.84	74	37.66	34.37	11.55	35.42	105	275	P	H
		5150	38.56	-15.44	54	28.02	34.4	11.56	35.42	105	275	A	H
	*	5310	102.78	-	-	91.79	34.63	11.72	35.36	105	275	P	H
	*	5310	94.58	-	-	83.59	34.63	11.72	35.36	105	275	A	H
802.11ax		5352.48	57.49	-16.51	74	46.58	34.5	11.76	35.35	105	275	P	H
HE40 Full		5352.96	49.28	-4.72	54	38.37	34.5	11.76	35.35	105	275	A	H
CH 62		5126.7	47.15	-26.85	74	36.67	34.37	11.54	35.43	116	7	P	V
5310MHz		5150	38.61	-15.39	54	28.07	34.4	11.56	35.42	116	7	A	V
	*	5310	102.7	-	-	91.71	34.63	11.72	35.36	116	7	P	V
	*	5310	94.78	-	-	83.79	34.63	11.72	35.36	116	7	A	V
		5352.48	58.91	-15.09	74	48	34.5	11.76	35.35	116	7	P	V
		5351.76	50.36	-3.64	54	39.45	34.5	11.76	35.35	116	7	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (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)
802.11ax HE80 Full CH 58 5290MHz		5144.2	48.4	-25.6	74	37.87	34.4	11.55	35.42	109	275	P	H
		5145.25	39.38	-14.62	54	28.85	34.4	11.55	35.42	109	275	A	H
	*	5290	100.12	-	-	89.17	34.63	11.69	35.37	109	275	P	H
	*	5290	92.73	-	-	81.78	34.63	11.69	35.37	109	275	A	H
		5351.76	58.14	-15.86	74	47.23	34.5	11.76	35.35	109	275	P	H
		5352.96	50.96	-3.04	54	40.05	34.5	11.76	35.35	109	275	A	H
		5147.35	48.07	-25.93	74	37.53	34.4	11.56	35.42	102	0	P	V
		5150	39.38	-14.62	54	28.84	34.4	11.56	35.42	102	0	A	V
	*	5290	99.79	-	-	88.84	34.63	11.69	35.37	102	0	P	V
	*	5290	92.14	-	-	81.19	34.63	11.69	35.37	102	0	A	V
		5351.76	57.96	-16.04	74	47.05	34.5	11.76	35.35	102	0	P	V
		5350.08	50.78	-3.22	54	39.87	34.5	11.76	35.35	102	0	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		5414.8	47.24	-26.76	74	36.04	34.7	11.83	35.33	100	279	P	H
		5467.12	47.88	-20.32	68.2	36.5	34.8	11.89	35.31	100	279	P	H
		5458	38.37	-15.63	54	27.1	34.7	11.88	35.31	100	279	A	H
	*	5500	105.41	-	-	93.78	35	11.93	35.3	100	279	P	H
	*	5500	98.17	-	-	86.54	35	11.93	35.3	100	279	A	H
													H
		5422.16	46.86	-27.14	74	35.65	34.7	11.84	35.33	106	350	P	V
		5469.52	50.46	-17.74	68.2	39.08	34.8	11.89	35.31	106	350	P	V
		5460	38.43	-15.57	54	27.16	34.7	11.88	35.31	106	350	A	V
	*	5500	106.46	-	-	94.83	35	11.93	35.3	106	350	P	V
	*	5500	98.98	-	-	87.35	35	11.93	35.3	106	350	A	V
													V
802.11a CH 116 5580MHz		5356.72	47.15	-26.85	74	36.24	34.5	11.76	35.35	100	277	P	H
		5468.08	45.64	-22.56	68.2	34.26	34.8	11.89	35.31	100	277	P	H
		5459.92	38.08	-15.92	54	26.81	34.7	11.88	35.31	100	277	A	H
	*	5580	104.6	-	-	93.02	34.87	12.02	35.31	100	277	P	H
	*	5580	97.1	-	-	85.52	34.87	12.02	35.31	100	277	A	H
		5745.155	47.69	-20.51	68.2	35.73	35	12.28	35.32	100	277	P	H
		5458.24	46.82	-27.18	74	35.55	34.7	11.88	35.31	100	350	P	V
		5465.68	45.73	-22.47	68.2	34.35	34.8	11.89	35.31	100	350	P	V
		5459.92	38.08	-15.92	54	26.81	34.7	11.88	35.31	100	350	A	V
	*	5580	105.07	-	-	93.49	34.87	12.02	35.31	100	350	P	V
	*	5580	97.61	-	-	86.03	34.87	12.02	35.31	100	350	A	V
		5750.51	47.31	-20.89	68.2	35.35	35	12.29	35.33	100	350	P	V

802.11a CH 140 5700MHz	*	5700	106.49	-	-	94.61	35	12.2	35.32	100	0	P	H
	*	5700	98.58	-	-	86.7	35	12.2	35.32	100	0	A	H
		5727.56	48.68	-19.52	68.2	36.75	35	12.25	35.32	100	0	P	H
													H
													H
													H
	*	5700	105.68	-	-	93.8	35	12.2	35.32	102	334	P	V
	*	5700	97.49	-	-	85.61	35	12.2	35.32	102	334	A	V
		5746.04	49.45	-18.75	68.2	37.49	35	12.28	35.32	102	334	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	44.27	-29.73	74	47.01	37.9	18.05	58.69	100	0	P	H
		16500	50.29	-17.91	68.2	42.73	41.6	22.38	56.42	100	0	P	H
													H
													H
		11000	45.68	-28.32	74	48.42	37.9	18.05	58.69	100	0	P	V
		16500	52.9	-15.3	68.2	45.34	41.6	22.38	56.42	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.79	-28.21	74	48.01	37.9	18.19	58.31	100	0	P	H
		16740	46.54	-21.66	68.2	37.93	42.36	22.58	56.33	100	0	P	H
													H
													H
		11160	48.37	-25.63	74	50.59	37.9	18.19	58.31	100	0	P	V
		16740	49.97	-18.23	68.2	41.36	42.36	22.58	56.33	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	47.46	-26.54	74	48.69	38.1	18.41	57.74	100	0	P	H
		17100	47.8	-20.4	68.2	39.2	42	22.87	56.27	100	0	P	H
													H
													H
		11400	48.98	-25.02	74	50.21	38.1	18.41	57.74	100	0	P	V
		17100	48.29	-19.91	68.2	39.69	42	22.87	56.27	100	0	P	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 802.11ax HE20 Full (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)
		5430	47.36	-26.64	74	36.14	34.7	11.84	35.32	100	279	P	H
		5465.04	47.36	-20.84	68.2	35.99	34.8	11.88	35.31	100	279	P	H
		5456.24	38.15	-15.85	54	26.89	34.7	11.87	35.31	100	279	A	H
	*	5500	106.74	-	-	95.11	35	11.93	35.3	100	279	P	H
802.11ax	*	5500	97.43	-	-	85.8	35	11.93	35.3	100	279	A	H
HE20 Full		5435.44	47.11	-26.89	74	35.88	34.7	11.85	35.32	106	350	P	V
CH 100		5464.56	46.86	-21.34	68.2	35.49	34.8	11.88	35.31	106	350	P	V
5500MHz		5459.76	38.31	-15.69	54	27.04	34.7	11.88	35.31	106	350	A	V
	*	5500	107.03	-	-	95.4	35	11.93	35.3	106	350	P	V
	*	5500	98.28	-	-	86.65	35	11.93	35.3	106	350	A	V
													V
													V
	*	5700	110.71	-	-	98.83	35	12.2	35.32	105	68	P	H
	*	5700	102.14	-	-	90.26	35	12.2	35.32	105	68	A	H
		5725.88	57.01	-11.19	68.2	45.08	35	12.25	35.32	105	68	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	108.26	-	-	96.38	35	12.2	35.32	100	319	P	V
5700MHz	*	5700	100.18	-	-	88.3	35	12.2	35.32	100	319	A	V
		5729.16	53.49	-14.71	68.2	41.56	35	12.25	35.32	100	319	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 802.11ax HE20 (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	44.46	-29.54	74	47.2	37.9	18.05	58.69	100	0	P	H
		16500	54.42	-13.78	68.2	46.86	41.6	22.38	56.42	100	0	P	H
802.11ax													H
HE20 Full													H
CH 100		11000	46.51	-27.49	74	49.25	37.9	18.05	58.69	100	0	P	V
5500MHz		16500	56.32	-11.88	68.2	48.76	41.6	22.38	56.42	100	0	P	V
													V
													V
		11400	46.03	-27.97	74	47.26	38.1	18.41	57.74	100	0	P	H
		17100	47.83	-20.37	68.2	39.23	42	22.87	56.27	100	0	P	H
802.11ax													H
HE20 Full													H
CH 140		11400	50.57	-23.43	74	51.8	38.1	18.41	57.74	100	0	P	V
5700MHz		17100	48.73	-19.47	68.2	40.13	42	22.87	56.27	100	0	P	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 802.11ax HE20 Partial 26 (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)
802.11ax HE20 Partial 26/8 CH 140 5700MHz	*	5700	116.18	-	-	104.3	35	12.2	35.32	100	353	P	H
	*	5700	108.65	-	-	96.77	35	12.2	35.32	100	353	A	H
		5725.48	63.84	-4.36	68.2	51.91	35	12.25	35.32	100	353	P	H
													H
													H
													H
	*	5700	115.83	-	-	103.95	35	12.2	35.32	101	323	P	V
	*	5700	107.94	-	-	96.06	35	12.2	35.32	101	323	A	V
		5725.32	59.11	-9.09	68.2	47.18	35	12.25	35.32	101	323	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 802.11ax HE40 Full (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)
		5459.44	51.75	-22.25	74	40.48	34.7	11.88	35.31	103	67	P	H
		5465.92	59.14	-9.06	68.2	47.76	34.8	11.89	35.31	103	67	P	H
		5459.92	45.48	-8.52	54	34.21	34.7	11.88	35.31	103	67	A	H
	*	5510	105.17	-	-	93.53	35	11.94	35.3	103	67	P	H
802.11ax	*	5510	97.18	-	-	85.54	35	11.94	35.3	103	67	A	H
HE40 Full		5750.51	49.96	-18.24	68.2	38	35	12.29	35.33	103	67	P	H
CH 102		5456.8	54.34	-19.66	74	43.07	34.7	11.88	35.31	106	352	P	V
5510MHz		5468.8	61.6	-6.6	68.2	50.22	34.8	11.89	35.31	106	352	P	V
		5458	46.98	-7.02	54	35.71	34.7	11.88	35.31	106	352	A	V
	*	5510	105.9	-	-	94.26	35	11.94	35.3	106	352	P	V
	*	5510	98.48	-	-	86.84	35	11.94	35.3	106	352	A	V
		5759.645	48.6	-19.6	68.2	36.63	35	12.3	35.33	106	352	P	V
		5430.85	48.22	-25.78	74	36.99	34.7	11.85	35.32	104	70	P	H
		5461.3	48.18	-20.02	68.2	36.91	34.7	11.88	35.31	104	70	P	H
		5459.55	39.04	-14.96	54	27.77	34.7	11.88	35.31	104	70	A	H
	*	5670	105.79	-	-	94.1	34.85	12.16	35.32	104	70	P	H
802.11ax	*	5670	98.09	-	-	86.4	34.85	12.16	35.32	104	70	A	H
HE40 Full		5734.2	51.81	-16.39	68.2	39.87	35	12.26	35.32	104	70	P	H
CH 134		5399.7	48.57	-25.43	74	37.39	34.7	11.81	35.33	101	335	P	V
5670MHz		5470	48.29	-19.91	68.2	36.91	34.8	11.89	35.31	101	335	P	V
		5459.55	38.97	-15.03	54	27.7	34.7	11.88	35.31	101	335	A	V
	*	5670	105.13	-	-	93.44	34.85	12.16	35.32	101	335	P	V
	*	5670	97.94	-	-	86.25	34.85	12.16	35.32	101	335	A	V
		5726.15	50.22	-17.98	68.2	38.29	35	12.25	35.32	101	335	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (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)
		5454.4	59.62	-14.38	74	48.37	34.7	11.87	35.32	100	78	P	H
		5462.56	60.93	-7.27	68.2	49.56	34.8	11.88	35.31	100	78	P	H
		5453.2	50.05	-3.95	54	38.8	34.7	11.87	35.32	100	78	A	H
	*	5530	101.24	-	-	89.65	34.93	11.96	35.3	100	78	P	H
802.11ax	*	5530	94.25	-	-	82.66	34.93	11.96	35.3	100	78	A	H
HE80 Full		5762.795	48.89	-19.31	68.2	36.91	35	12.31	35.33	100	78	P	H
CH 106		5459.68	61.91	-12.09	74	50.64	34.7	11.88	35.31	100	352	P	V
5530MHz		5468.08	63.73	-4.47	68.2	52.35	34.8	11.89	35.31	100	352	P	V
		5459.92	53.33	-0.67	54	42.06	34.7	11.88	35.31	100	352	A	V
	*	5530	102.03	-	-	90.44	34.93	11.96	35.3	100	352	P	V
	*	5530	94.84	-	-	83.25	34.93	11.96	35.3	100	352	A	V
		5745.155	49.48	-18.72	68.2	37.52	35	12.28	35.32	100	352	P	V
		5363.3	50.58	-23.42	74	39.59	34.57	11.77	35.35	100	67	P	H
		5468.65	46.65	-21.55	68.2	35.27	34.8	11.89	35.31	100	67	P	H
		5458.15	39.61	-14.39	54	28.34	34.7	11.88	35.31	100	67	A	H
	*	5610	101.7	-	-	89.95	35	12.06	35.31	100	67	P	H
802.11ax	*	5610	95.45	-	-	83.7	35	12.06	35.31	100	67	A	H
HE80 Full		5760.275	51.14	-17.06	68.2	39.17	35	12.3	35.33	100	67	P	H
CH 122		5408.8	48.03	-25.97	74	36.84	34.7	11.82	35.33	100	335	P	V
5610MHz		5460.95	46.59	-21.61	68.2	35.32	34.7	11.88	35.31	100	335	P	V
		5457.45	39.3	-14.7	54	28.03	34.7	11.88	35.31	100	335	A	V
	*	5610	102.57	-	-	90.82	35	12.06	35.31	100	335	P	V
	*	5610	94.98	-	-	83.23	35	12.06	35.31	100	335	A	V
		5730.175	50.97	-17.23	68.2	39.04	35	12.25	35.32	100	335	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 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5374.57	46.7	-27.3	74	35.69	34.57	11.78	35.34	100	360	P	H
		5468.17	46.69	-21.51	68.2	35.31	34.8	11.89	35.31	100	360	P	H
		5459.59	37.85	-16.15	54	26.58	34.7	11.88	35.31	100	360	A	H
	*	5720	106.87	-	-	94.95	35	12.24	35.32	100	360	P	H
	*	5720	98.94	-	-	87.02	35	12.24	35.32	100	360	A	H
		5898.25	49.56	-18.64	68.2	37.28	35.2	12.42	35.34	100	360	P	H
		5432.68	46.98	-27.02	74	35.75	34.7	11.85	35.32	102	320	P	V
		5464.27	47.85	-20.35	68.2	36.48	34.8	11.88	35.31	102	320	P	V
		5459.98	37.88	-16.12	54	26.61	34.7	11.88	35.31	102	320	A	V
	*	5720	104.94	-	-	93.02	35	12.24	35.32	102	320	P	V
	*	5720	97.8	-	-	85.88	35	12.24	35.32	102	320	A	V
		5907.25	48.82	-19.38	68.2	36.54	35.2	12.42	35.34	102	320	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	46.27	-27.73	74	47.34	38.13	18.44	57.64	100	0	P	H
		17160	48.94	-19.26	68.2	40.59	41.73	22.91	56.29	100	0	P	H
													H
													H
		11440	46.64	-27.36	74	47.71	38.13	18.44	57.64	100	0	P	V
		17160	49.32	-18.88	68.2	40.97	41.73	22.91	56.29	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (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)
802.11ax HE20 Full CH 144 5720MHz		5410.45	48.62	-25.38	74	37.43	34.7	11.82	35.33	100	352	P	H
		5468.56	47.7	-20.5	68.2	36.32	34.8	11.89	35.31	100	352	P	H
		5458.81	38.66	-15.34	54	27.39	34.7	11.88	35.31	100	352	A	H
	*	5720	110	-	-	98.08	35	12.24	35.32	100	352	P	H
	*	5720	101.1	-	-	89.18	35	12.24	35.32	100	352	A	H
		5925.5	50.17	-18.03	68.2	37.88	35.2	12.43	35.34	100	352	P	H
		5396.41	49.18	-24.82	74	38.01	34.7	11.81	35.34	100	23	P	V
		5461.54	46.89	-21.31	68.2	35.62	34.7	11.88	35.31	100	23	P	V
		5459.59	38.75	-15.25	54	27.48	34.7	11.88	35.31	100	23	A	V
	*	5720	108.47	-	-	96.55	35	12.24	35.32	100	23	P	V
	*	5720	100.82	-	-	88.9	35	12.24	35.32	100	23	A	V
		5919.25	50.37	-17.83	68.2	38.08	35.2	12.43	35.34	100	23	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (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	46.25	-27.75	74	47.32	38.13	18.44	57.64	100	0	P	H
		17160	49.42	-18.78	68.2	41.07	41.73	22.91	56.29	100	0	P	H
802.11ax													H
HE20 Full													H
CH 144		11440	49.03	-24.97	74	50.1	38.13	18.44	57.64	100	0	P	V
5720MHz		17160	49.32	-18.88	68.2	40.97	41.73	22.91	56.29	100	0	P	V
													V
													V

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

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (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)
802.11ax HE40 Full CH 142 5710MHz		5436.19	49.06	-24.94	74	37.83	34.7	11.85	35.32	100	352	P	H
		5461.54	46.49	-21.71	68.2	35.22	34.7	11.88	35.31	100	352	P	H
		5458.81	38.66	-15.34	54	27.39	34.7	11.88	35.31	100	352	A	H
	*	5710	106.34	-	-	94.44	35	12.22	35.32	100	352	P	H
	*	5710	97.96	-	-	86.06	35	12.22	35.32	100	352	A	H
		5862	50.25	-17.95	68.2	38.12	35.07	12.4	35.34	100	352	P	H
		5378.86	48.84	-25.16	74	37.76	34.63	11.79	35.34	100	23	P	V
		5462.32	46.54	-21.66	68.2	35.27	34.7	11.88	35.31	100	23	P	V
		5458.81	38.75	-15.25	54	27.48	34.7	11.88	35.31	100	23	A	V
	*	5710	105.75	-	-	93.85	35	12.22	35.32	100	23	P	V
	*	5710	96.91	-	-	85.01	35	12.22	35.32	100	23	A	V
		5870.5	50.56	-17.64	68.2	38.42	35.07	12.41	35.34	100	23	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE40 Full (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	44.5	-29.5	74	45.65	38.12	18.42	57.69	100	0	P	H
		17130	48.45	-19.75	68.2	39.97	41.87	22.89	56.28	100	0	P	H
802.11ax													H
HE40 Full													H
CH 142		11420	47.99	-26.01	74	49.14	38.12	18.42	57.69	100	0	P	V
5710MHz		17130	48.98	-19.22	68.2	40.5	41.87	22.89	56.28	100	0	P	V
													V
													V

Remark

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

Band 3 Straddle Channel

WIFI 802.11ax HE80 Full (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)
		5392.51	47.9	-26.1	74	36.81	34.63	11.8	35.34	100	354	P	H
		5469.34	47.45	-20.75	68.2	36.07	34.8	11.89	35.31	100	354	P	H
		5458.81	38.72	-15.28	54	27.45	34.7	11.88	35.31	100	354	A	H
	*	5690	104.29	-	-	92.42	35	12.19	35.32	100	354	P	H
802.11ax	*	5690	96.53	-	-	84.66	35	12.19	35.32	100	354	A	H
HE80 Full		5942.8	50.9	-17.3	68.2	38.6	35.2	12.44	35.34	100	354	P	H
CH 138		5458.03	48	-26	74	36.73	34.7	11.88	35.31	100	332	P	V
5690MHz		5466.22	46.68	-21.52	68.2	35.3	34.8	11.89	35.31	100	332	P	V
		5458.81	38.68	-15.32	54	27.41	34.7	11.88	35.31	100	332	A	V
	*	5690	103.55	-	-	91.68	35	12.19	35.32	100	332	P	V
	*	5690	94.27	-	-	82.4	35	12.19	35.32	100	332	A	V
		5921.5	50.46	-17.74	68.2	38.17	35.2	12.43	35.34	100	332	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (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	42.77	-31.23	74	44.1	38.08	18.38	57.79	100	0	P	H
		17070	46.77	-21.43	68.2	38.12	42.07	22.84	56.26	100	0	P	H
802.11ax													H
HE80 Full													H
CH 138		11380	44.29	-29.71	74	45.62	38.08	18.38	57.79	100	0	P	V
5690MHz		17070	47.22	-20.98	68.2	38.57	42.07	22.84	56.26	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full LF		147.99	29.53	-13.97	43.5	40.08	17.2	2.2	29.95	-	-	P	H
		176.34	35.24	-8.26	43.5	47.57	15.15	2.46	29.94	100	0	P	H
		246.54	35.2	-10.8	46	44.65	17.73	2.74	29.92	-	-	P	H
		327.3	33.61	-12.39	46	40.69	19.58	3.23	29.89	-	-	P	H
		850.2	31.9	-14.1	46	27.18	28.74	5.2	29.22	-	-	P	H
		948.2	33.78	-12.22	46	26.75	30.12	5.62	28.71	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.49	-6.51	40	38.21	24.32	0.97	30.01	100	0	P	V
		147.99	31.67	-11.83	43.5	42.22	17.2	2.2	29.95	-	-	P	V
		175.8	36.34	-7.16	43.5	48.65	15.18	2.45	29.94	-	-	P	V
		337.1	31.33	-14.67	46	38.01	19.92	3.29	29.89	-	-	P	V
		876.8	32.81	-13.19	46	27.66	28.86	5.38	29.09	-	-	P	V
		954.5	33.83	-12.17	46	26.38	30.48	5.64	28.67	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

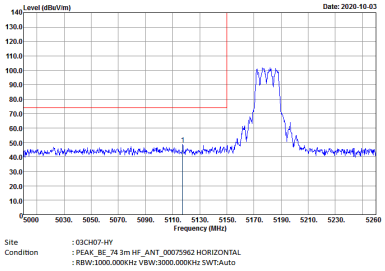
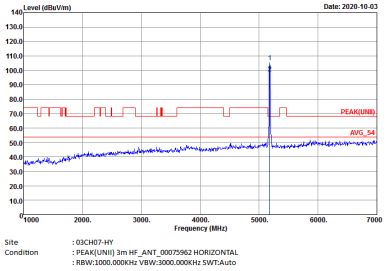
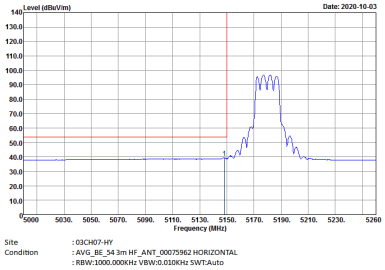
Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	**Temperature :**	22~23°C
		Relative Humidity :	51~58%

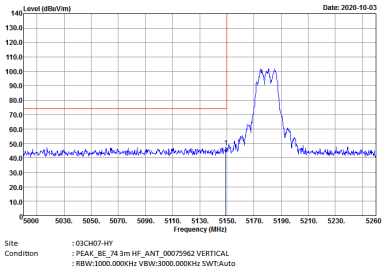
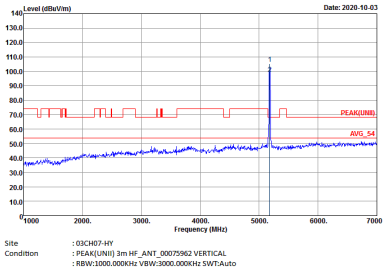
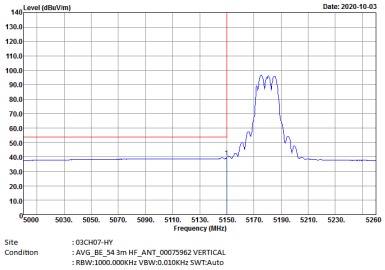
Note symbol

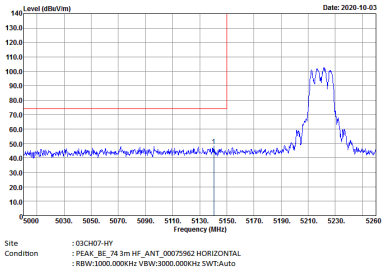
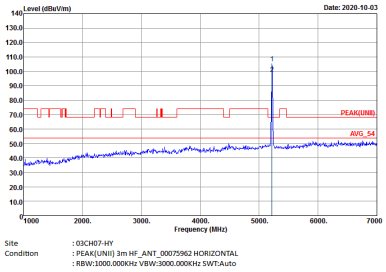
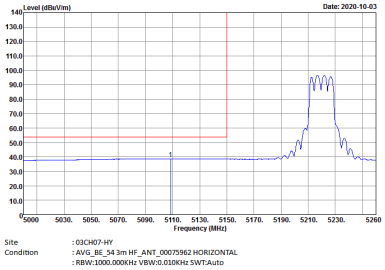
-L	**Low channel location**
-R	**High channel location**

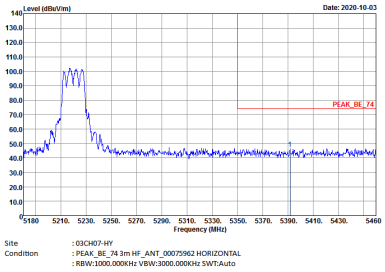
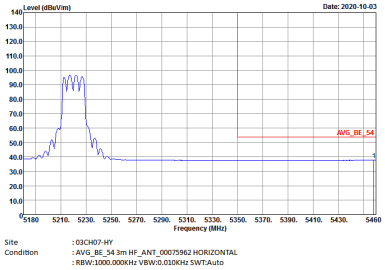
Band 1 - 5150~5250MHz

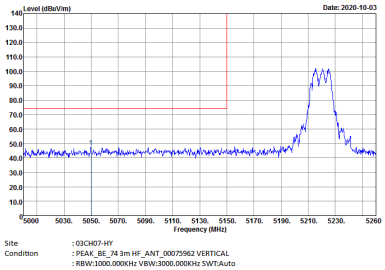
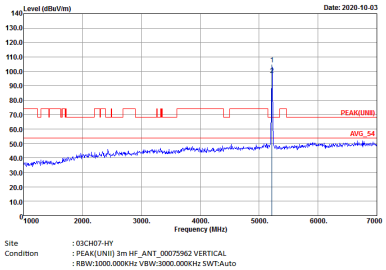
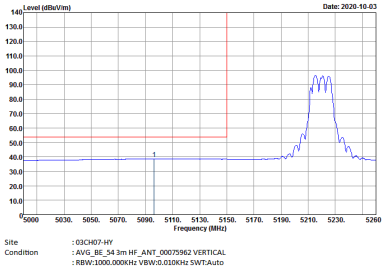
WIFI 802.11a (Band Edge @ 3m)

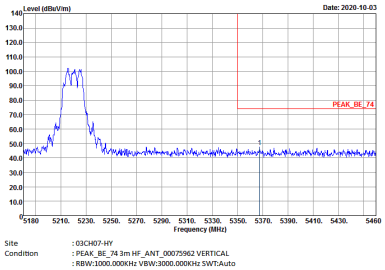
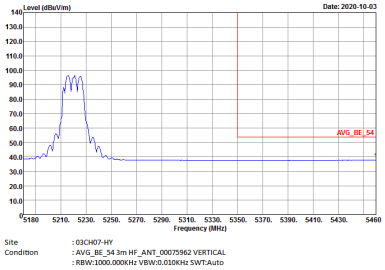
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

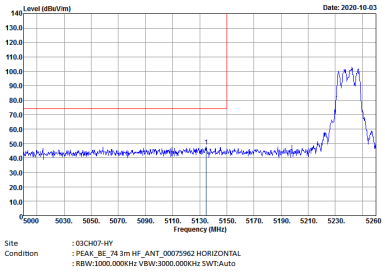
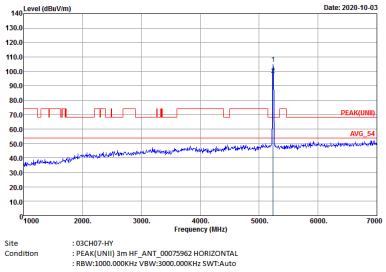
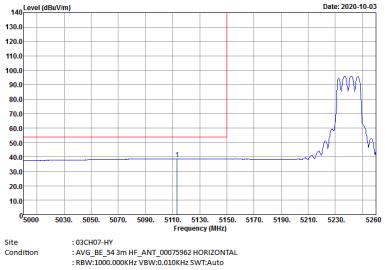
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

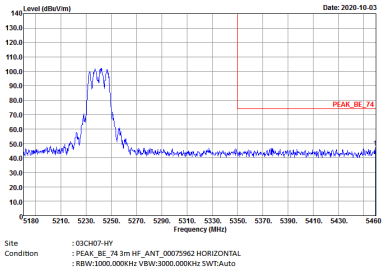
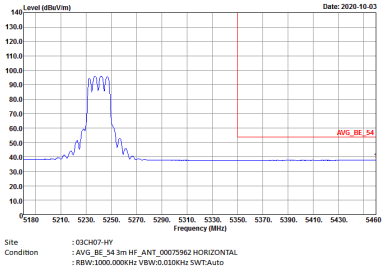
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

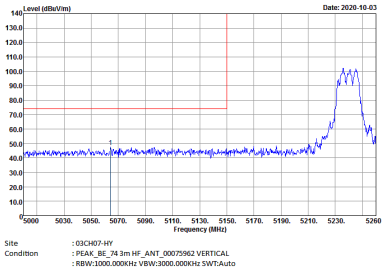
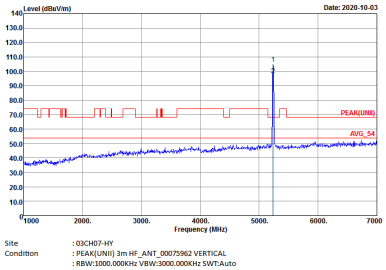
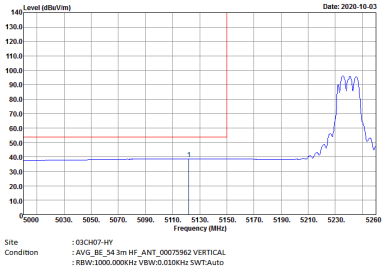
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

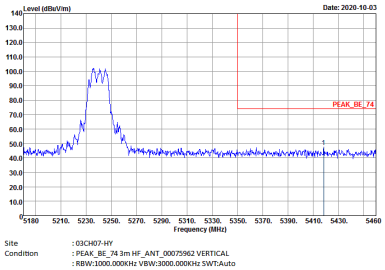
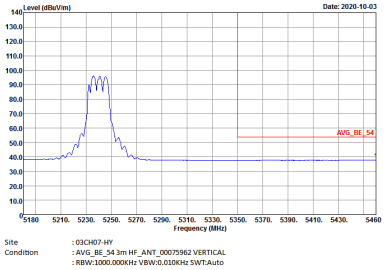
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

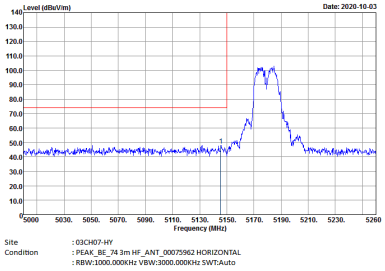
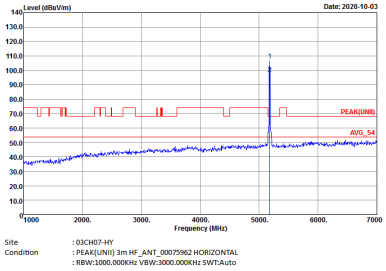
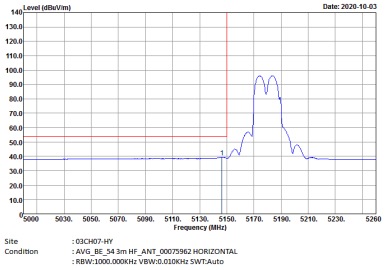
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

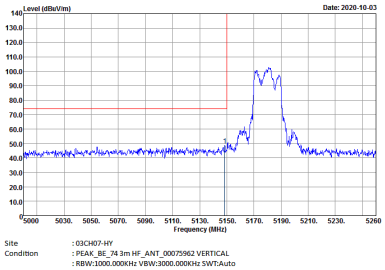
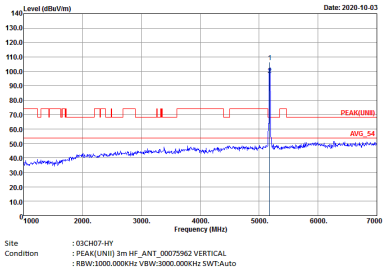
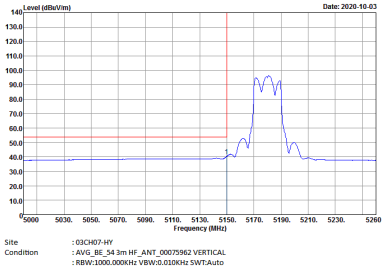
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

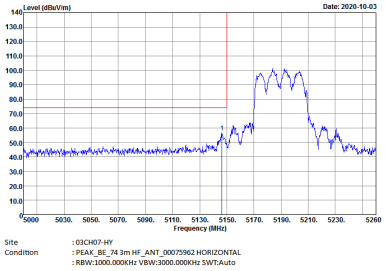
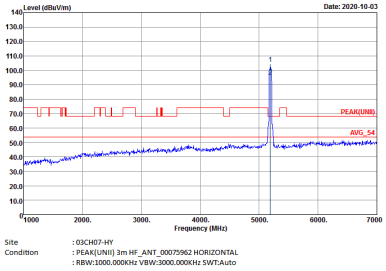
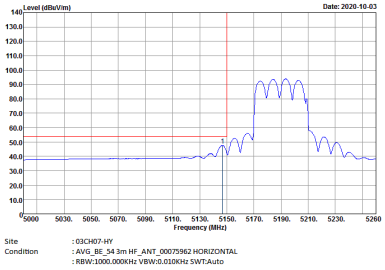
Band 1 5150~5250MHz

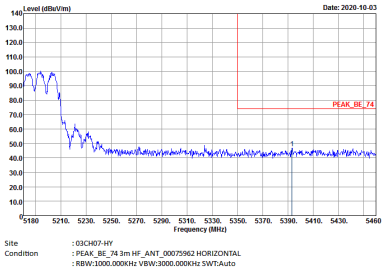
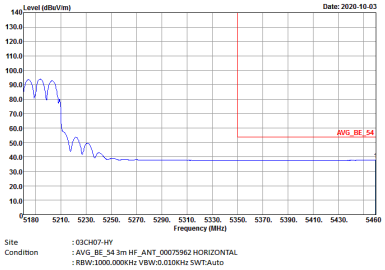
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

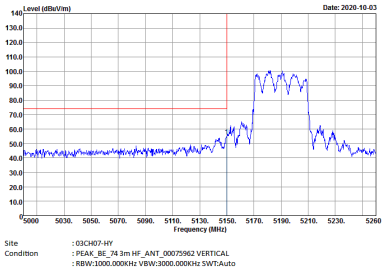
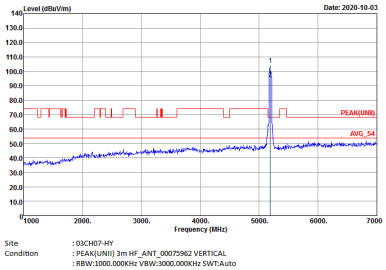
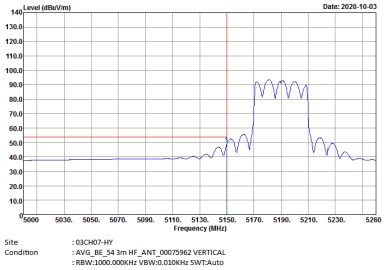
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

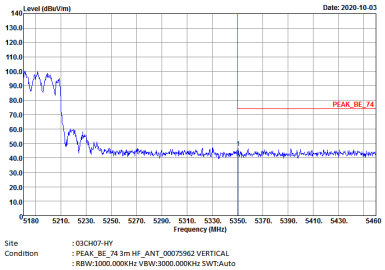
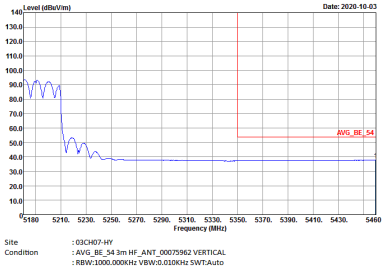
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

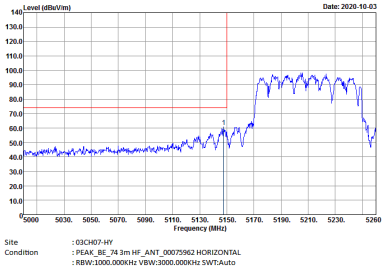
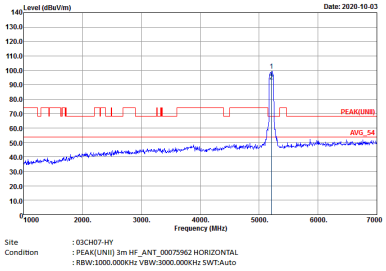
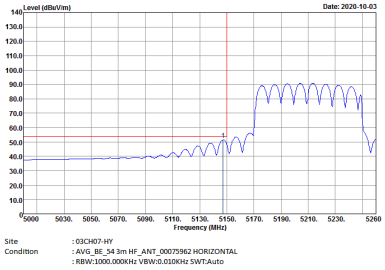
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

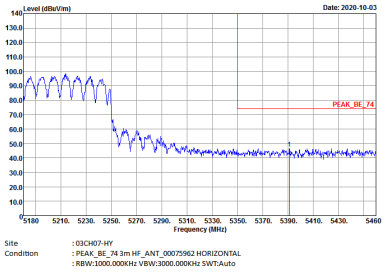
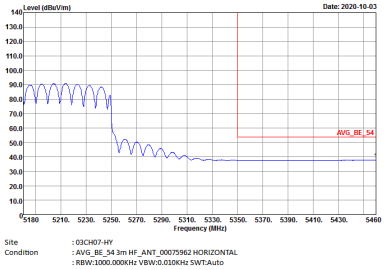
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

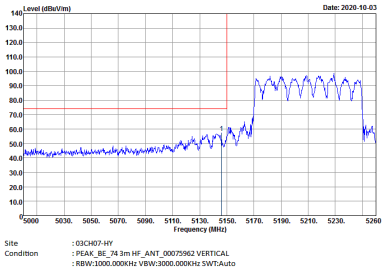
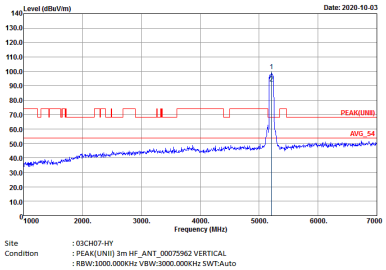
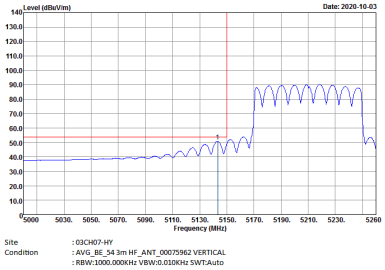
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

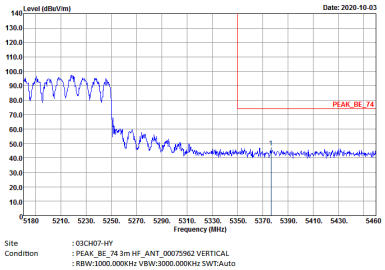
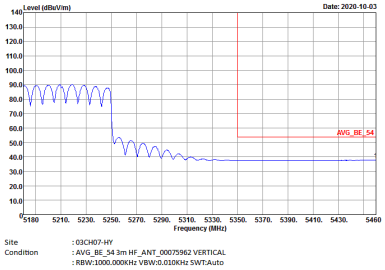
Band 1 5150~5250MHz

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

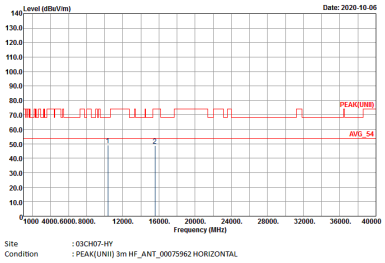
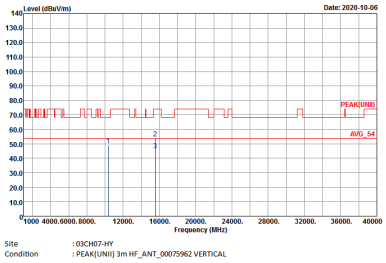
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

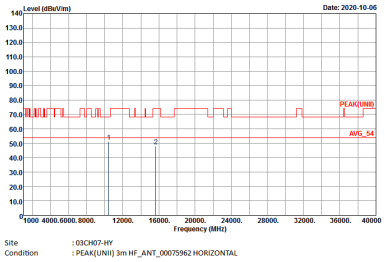
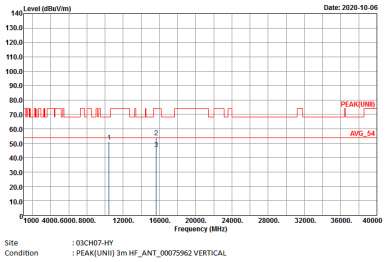
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

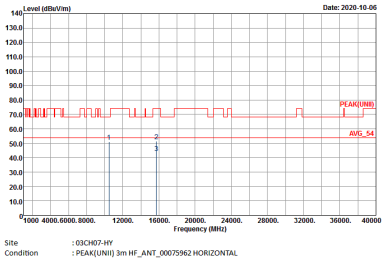
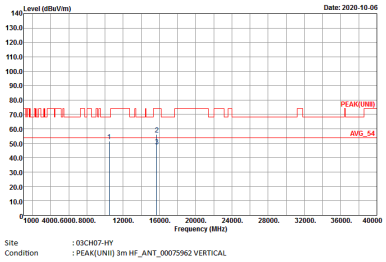
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

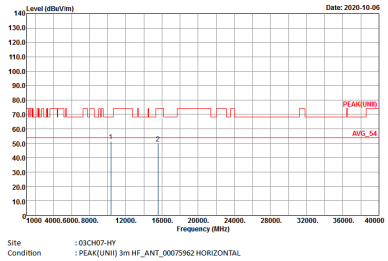
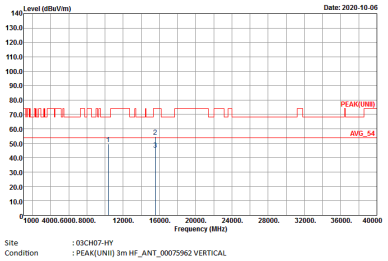
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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.		

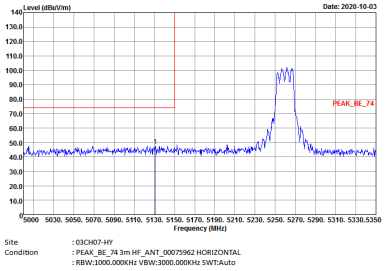
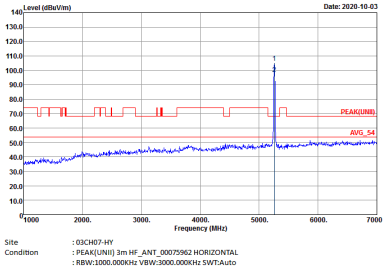
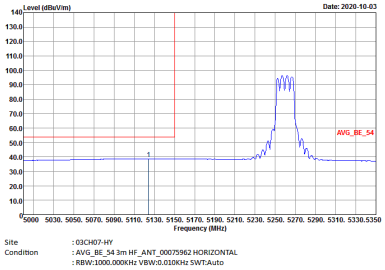
Band 1 5150~5250MHz

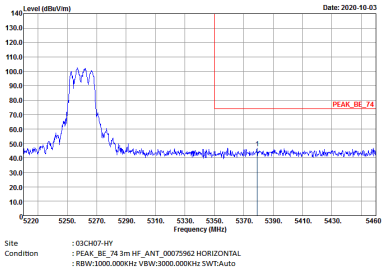
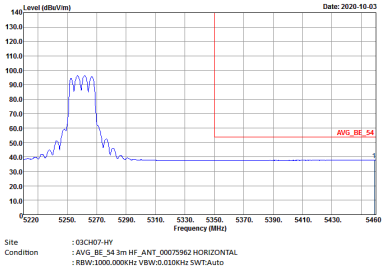
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

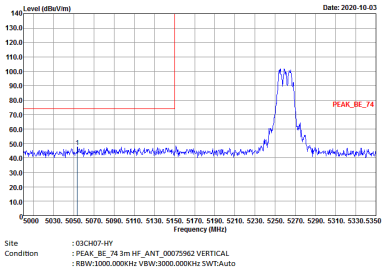
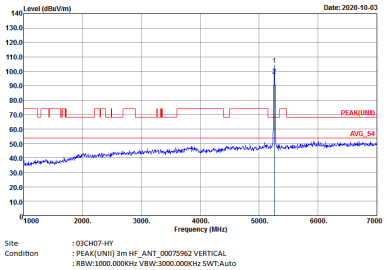
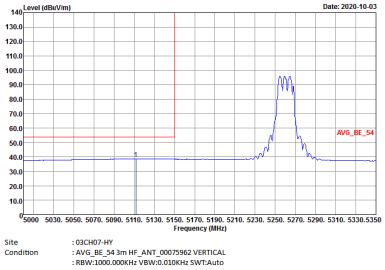
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

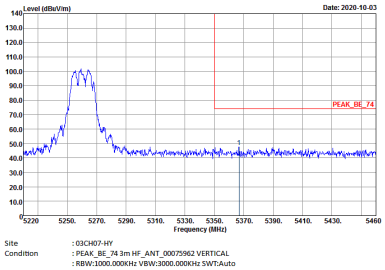
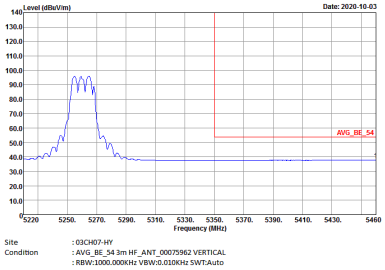
Band 2 - 5250~5350MHz

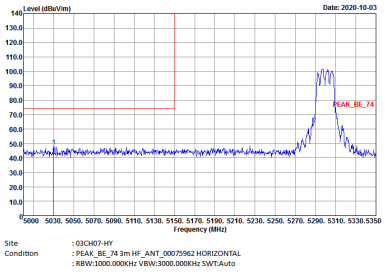
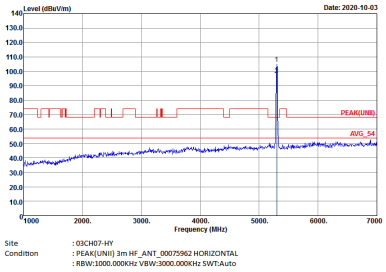
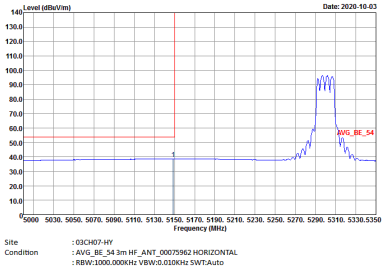
WIFI 802.11a (Band Edge @ 3m)

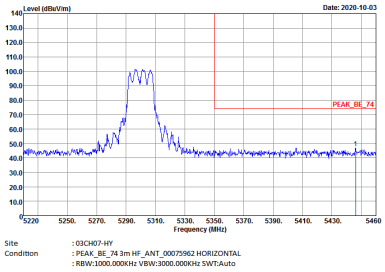
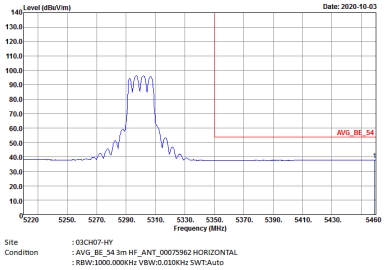
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

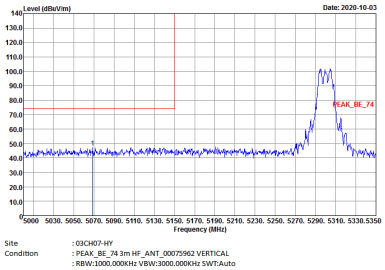
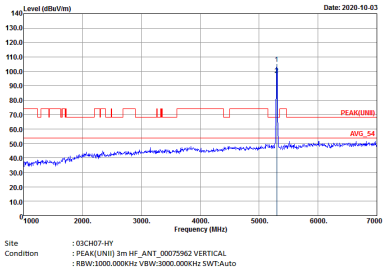
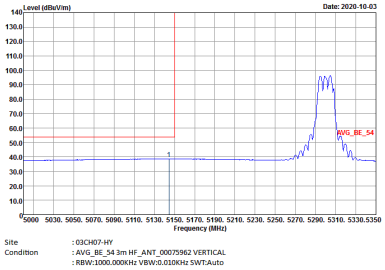
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

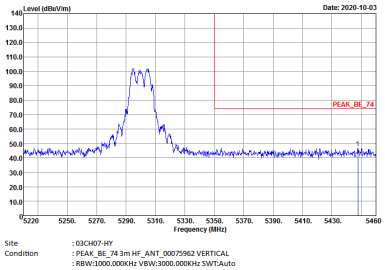
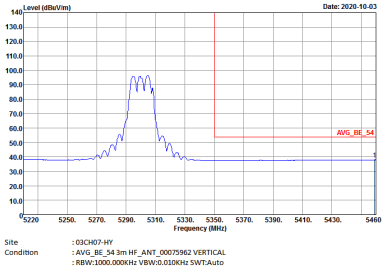
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

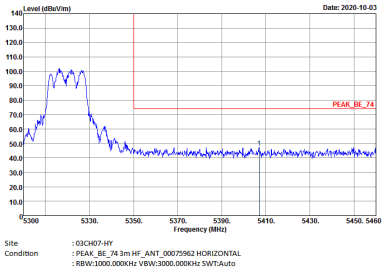
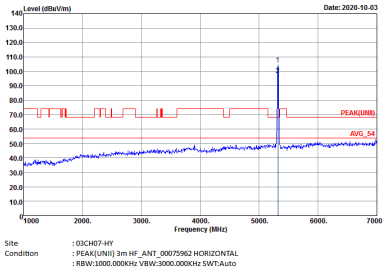
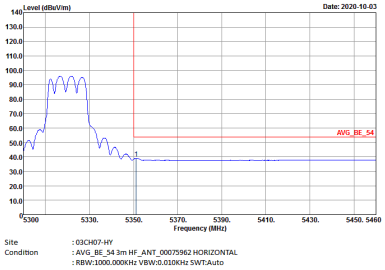
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

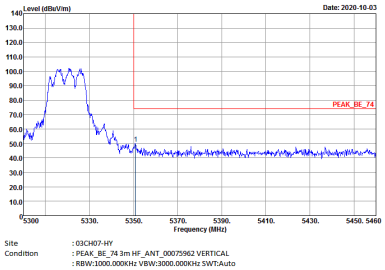
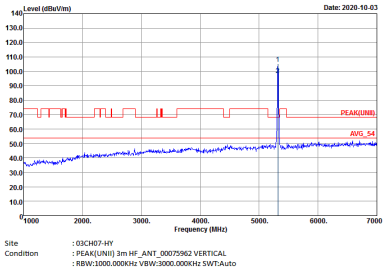
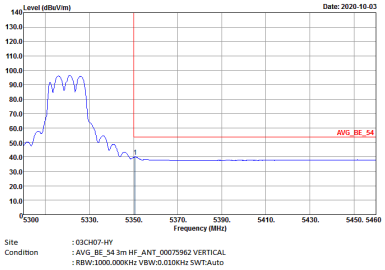
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

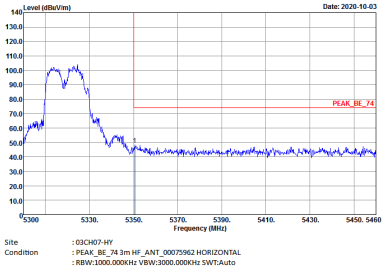
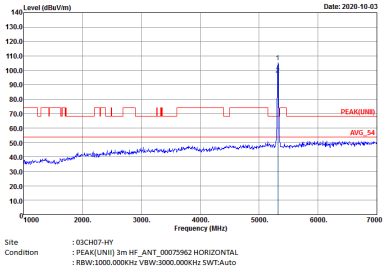
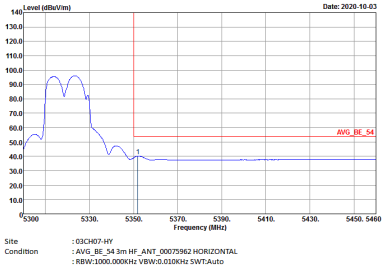
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

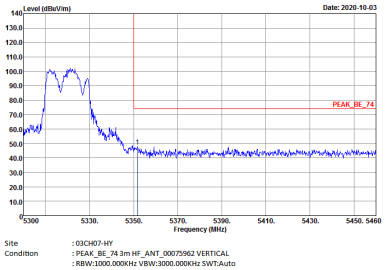
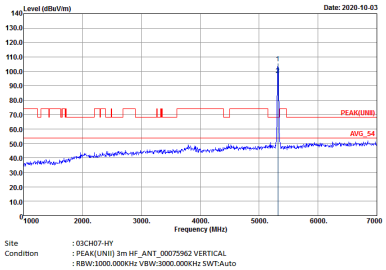
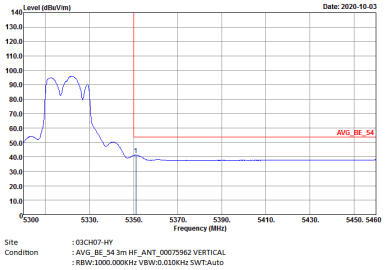
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

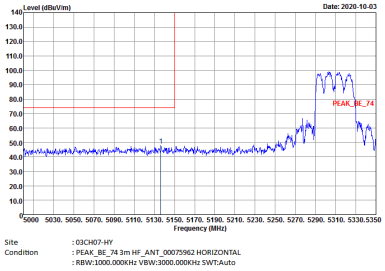
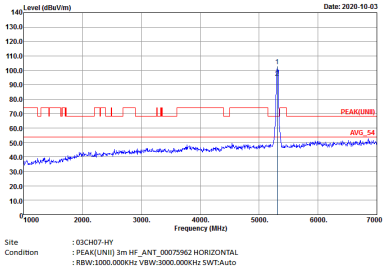
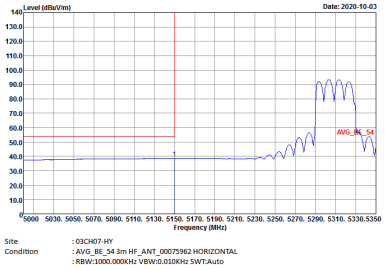
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

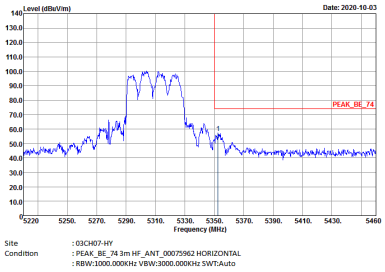
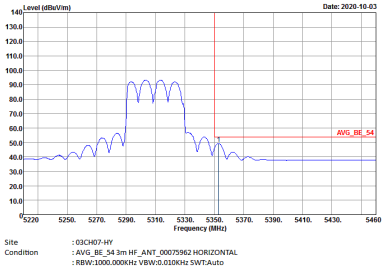
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

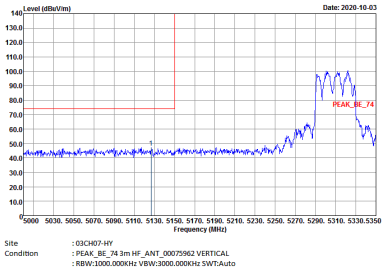
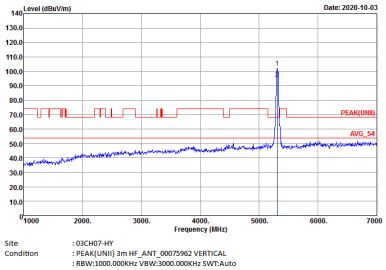
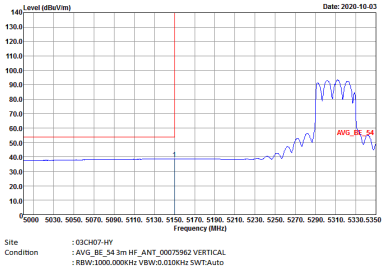
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

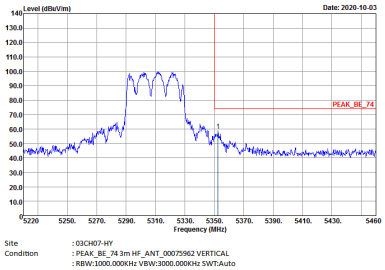
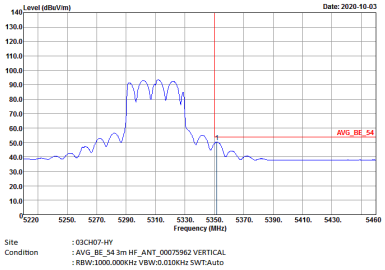
Band 2 - 5250~5350MHz

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

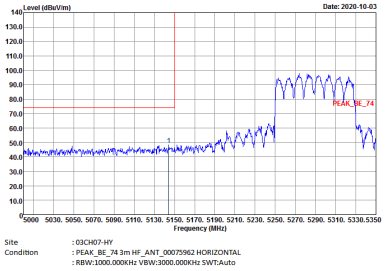
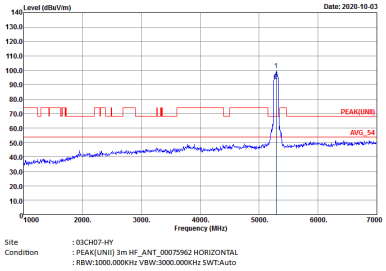
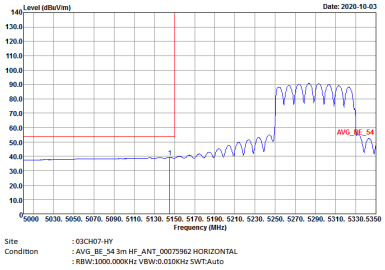
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

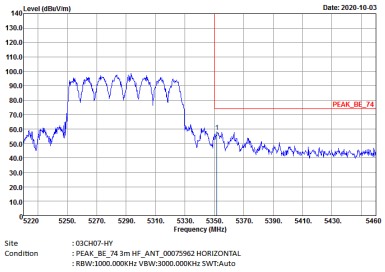
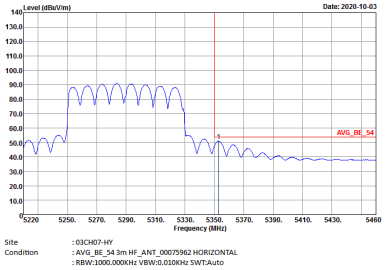
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

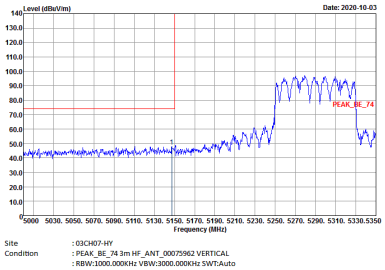
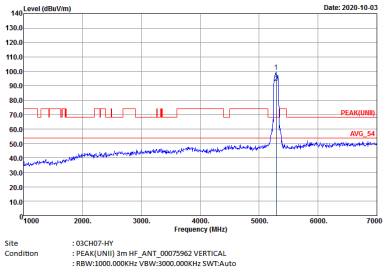
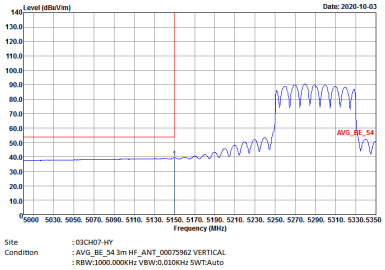
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

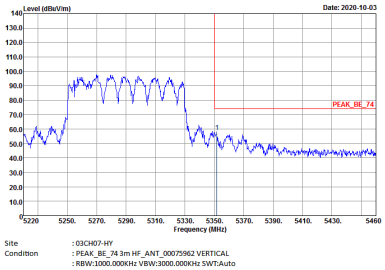
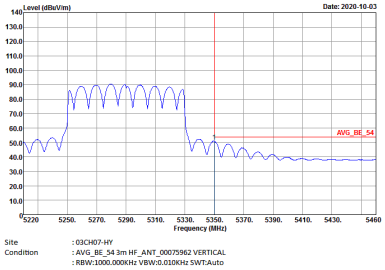
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 5250~5350MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

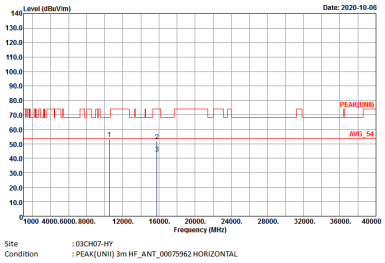
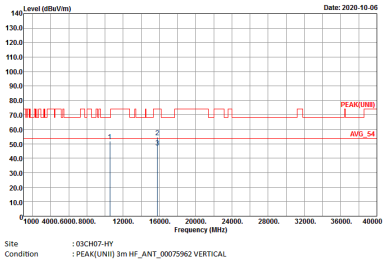
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

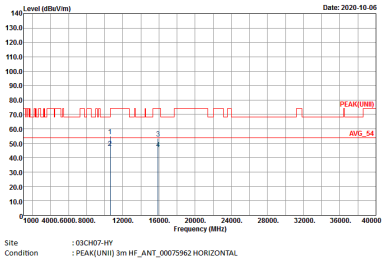
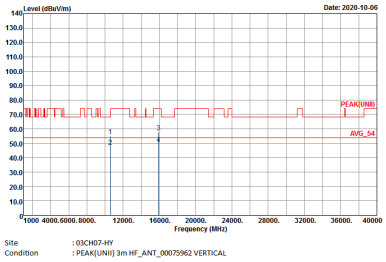
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

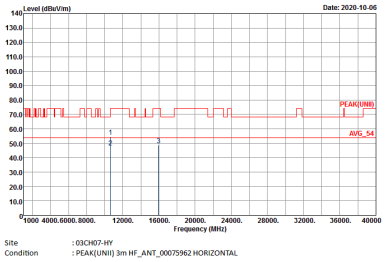
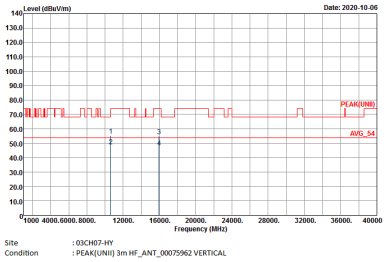
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

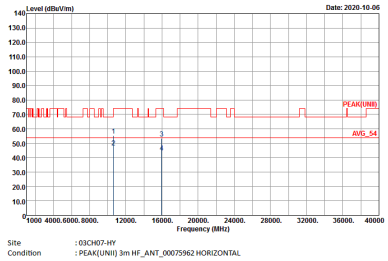
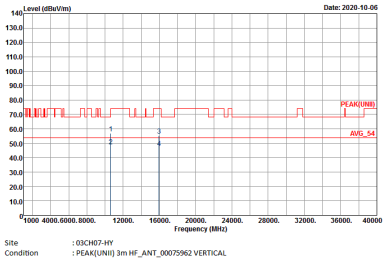
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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.		

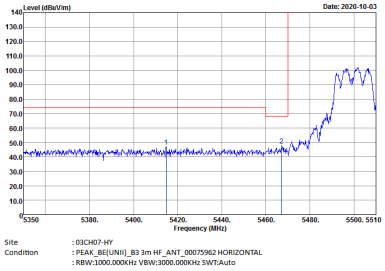
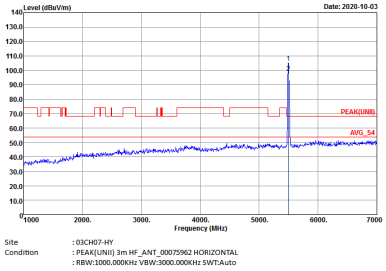
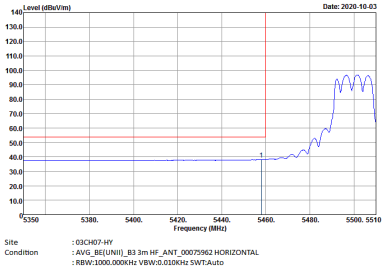
Band 2 5250~5350MHz

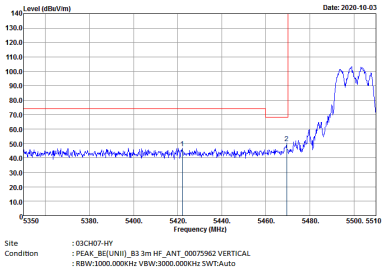
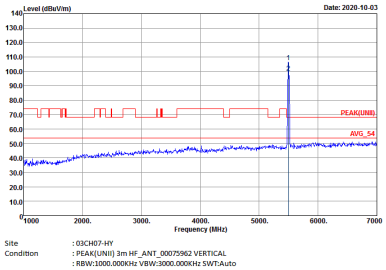
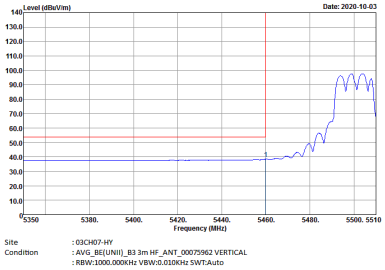
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

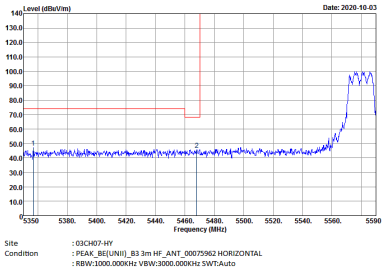
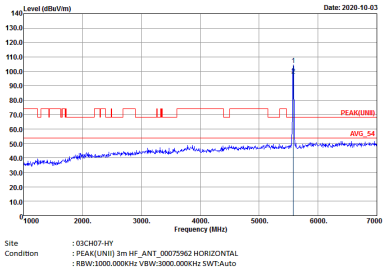
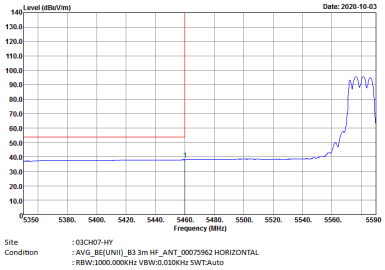
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

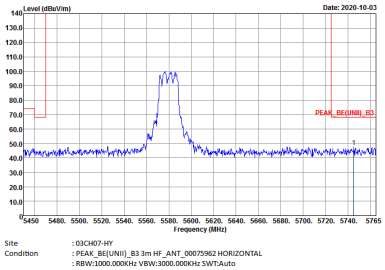
Band 3 - 5470~5725MHz

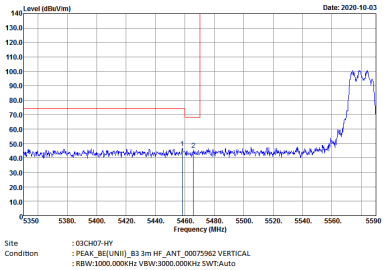
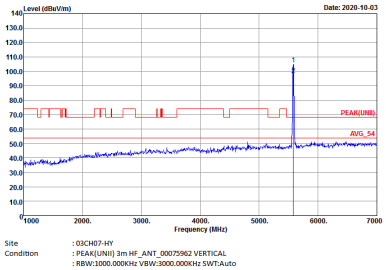
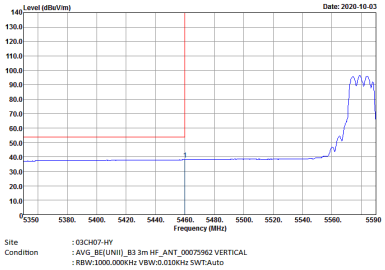
WIFI 802.11a (Band Edge @ 3m)

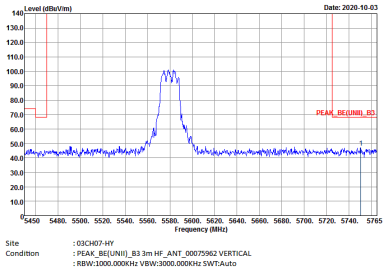
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

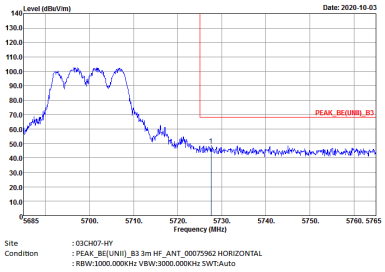
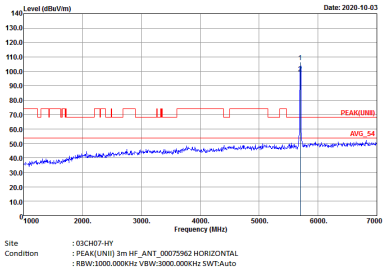
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

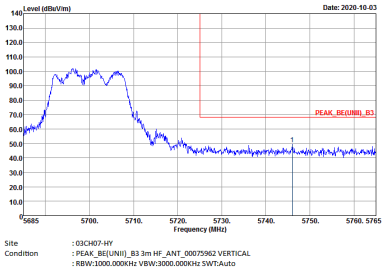
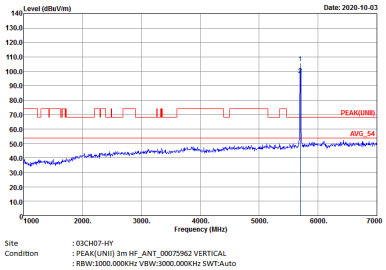
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

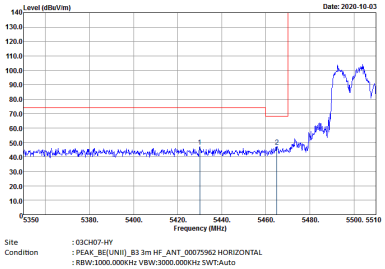
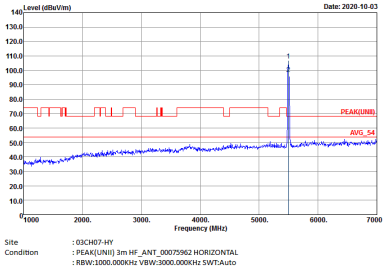
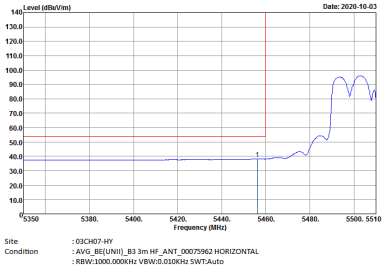
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

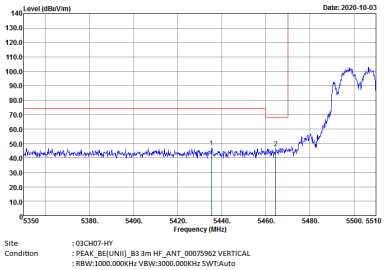
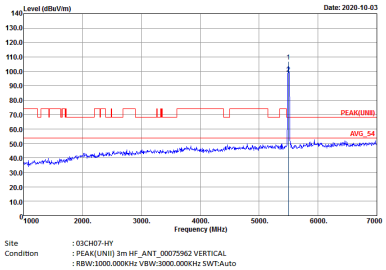
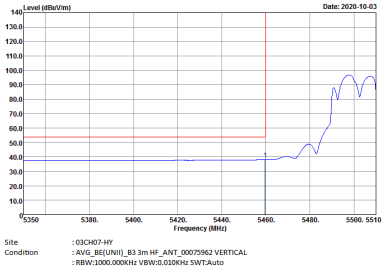
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

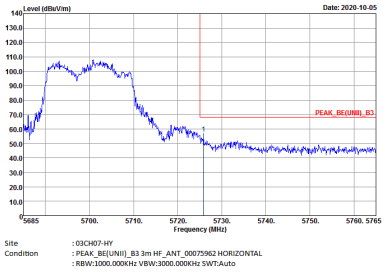
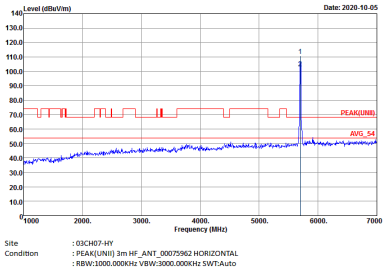
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

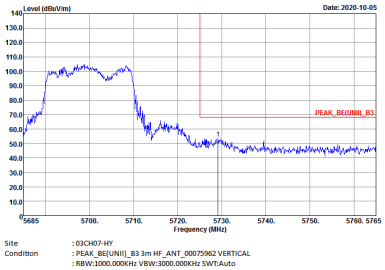
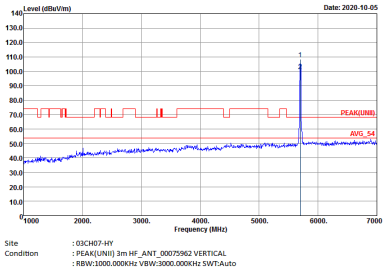
Band 3 5470~5725MHz

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

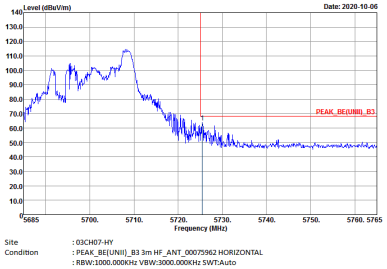
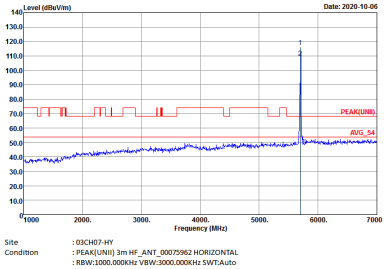
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

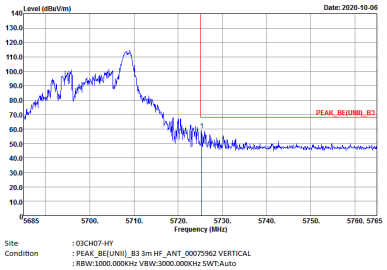
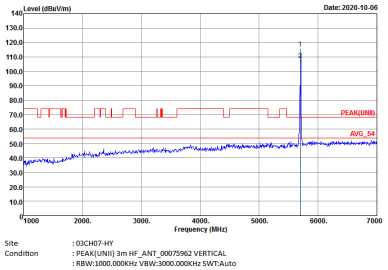
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

Band 3 - 5470~5725MHz

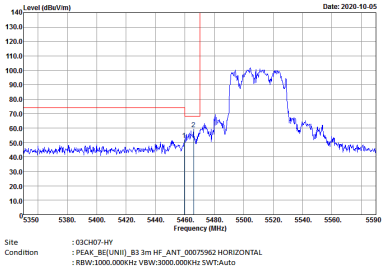
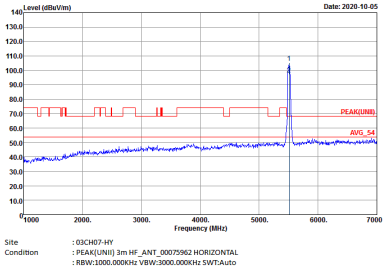
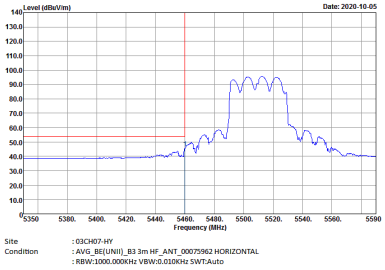
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

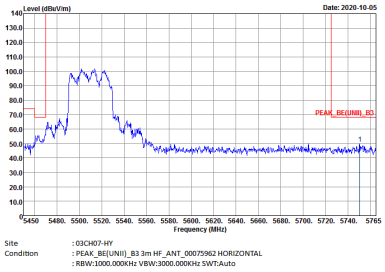
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

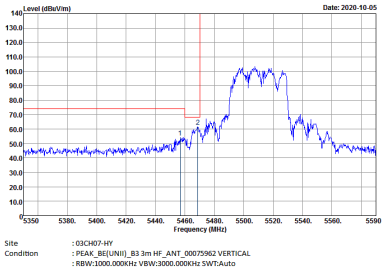
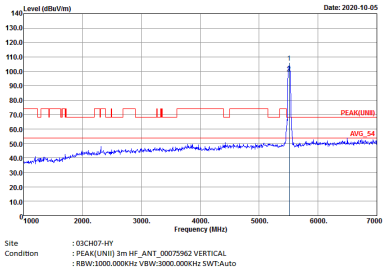
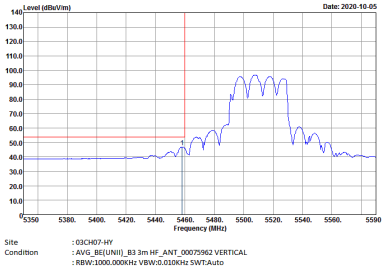
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

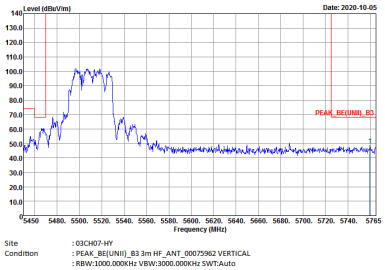
Band 3 5470~5725MHz

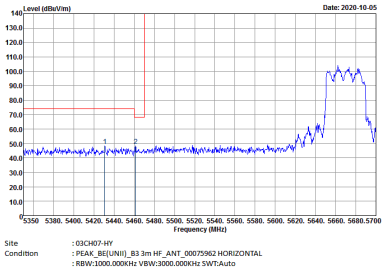
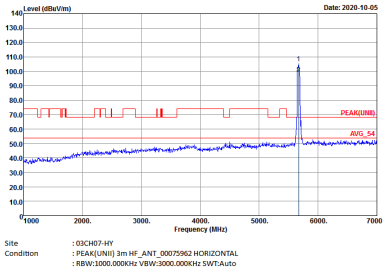
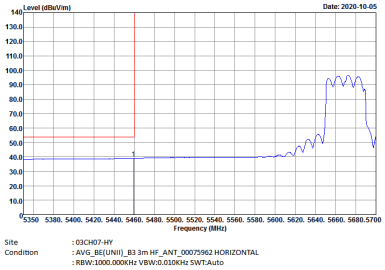
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

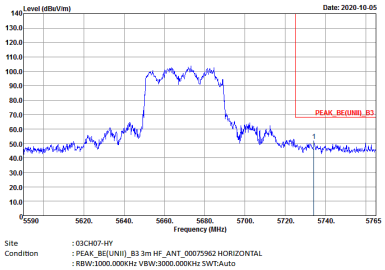
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

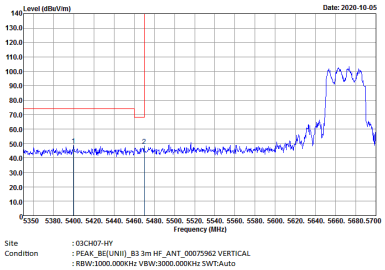
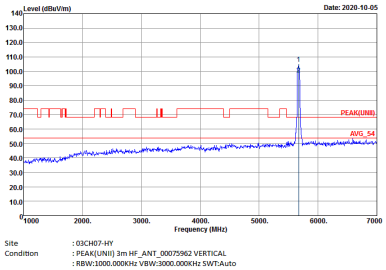
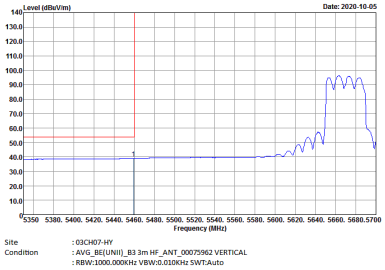
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

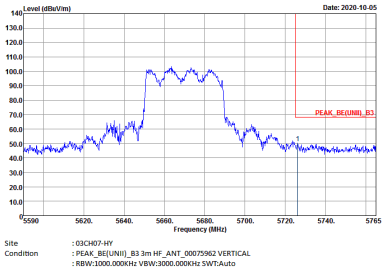
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

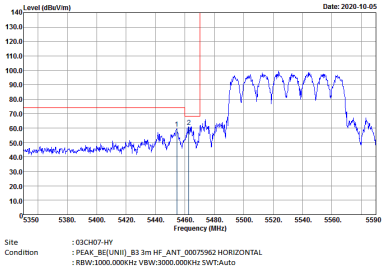
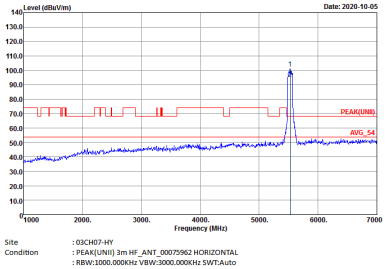
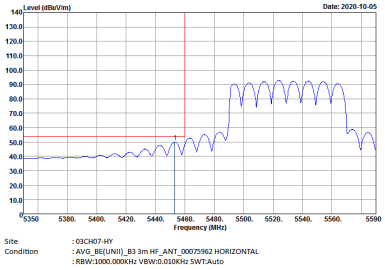
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

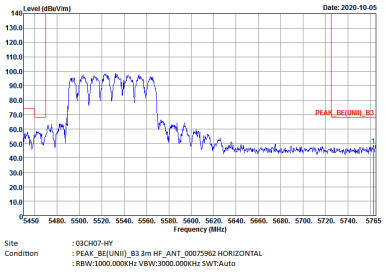
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

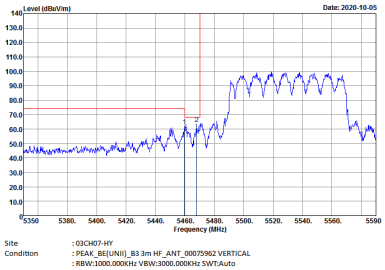
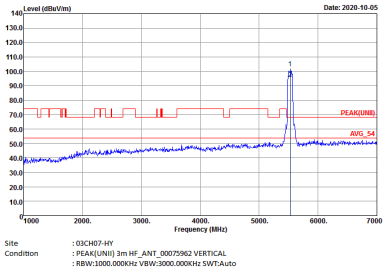
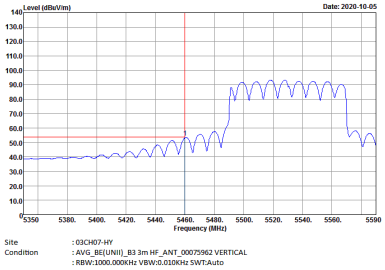
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

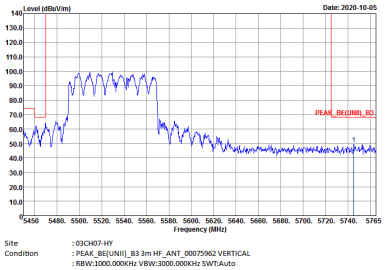
Band 3 5470~5725MHz

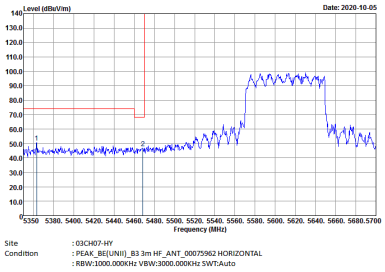
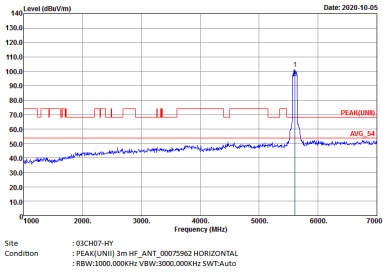
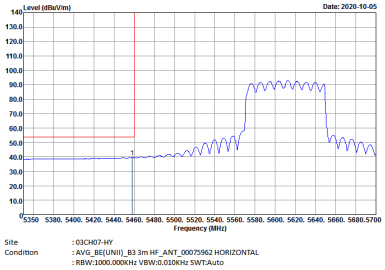
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

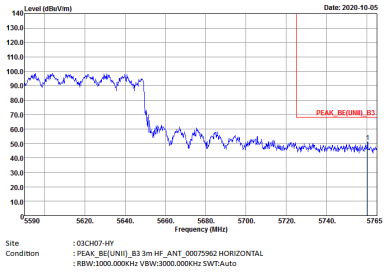
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

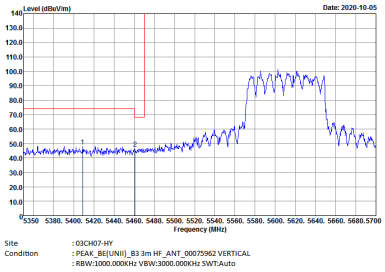
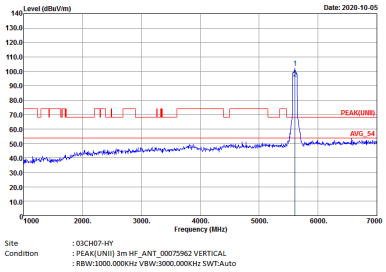
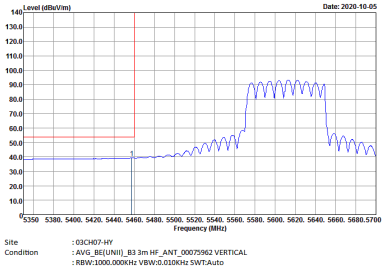
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

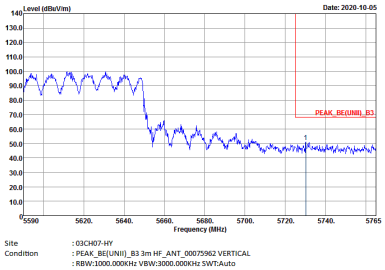
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

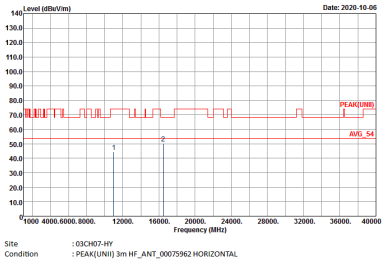
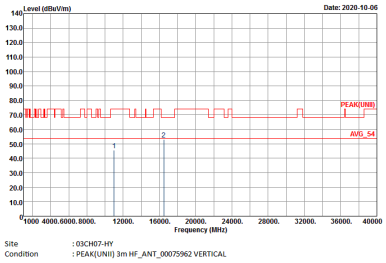
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

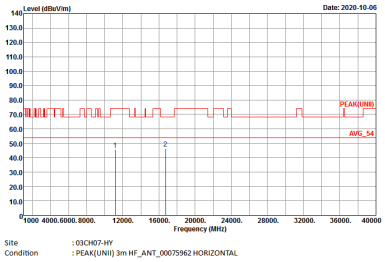
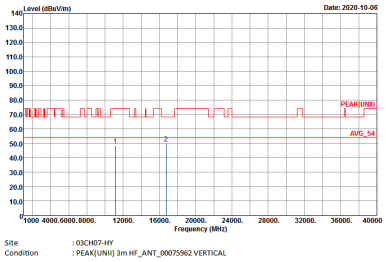
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

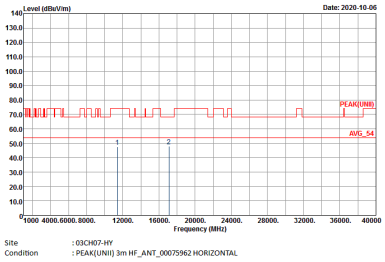
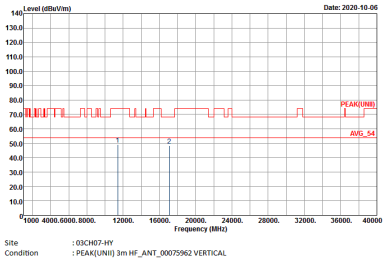
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

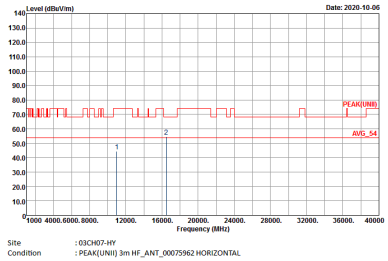
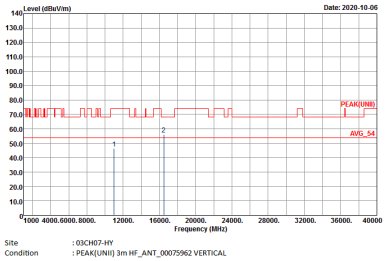
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

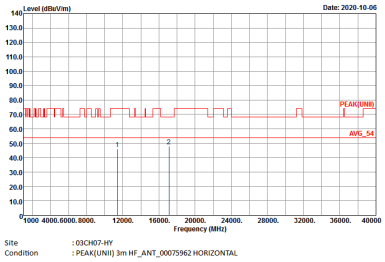
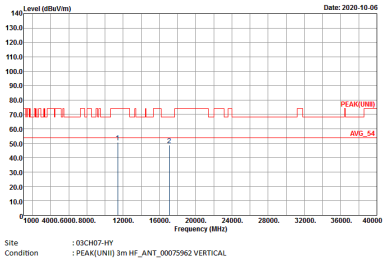
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

Band 3 5470~5725MHz

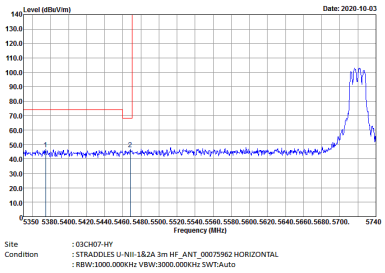
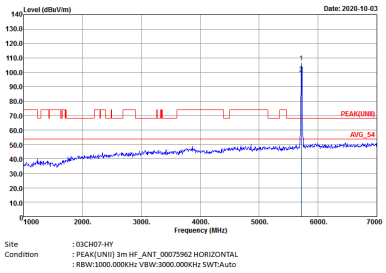
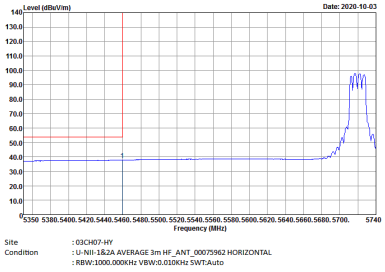
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

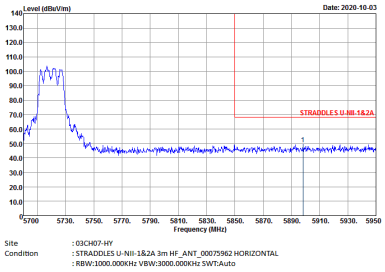
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

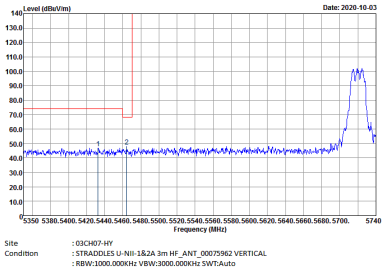
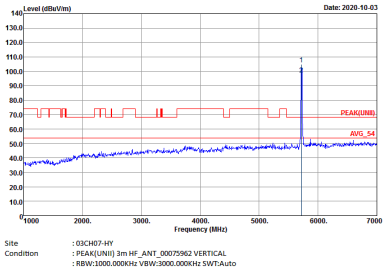
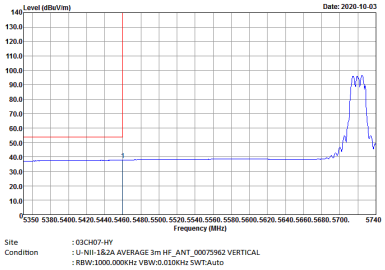
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

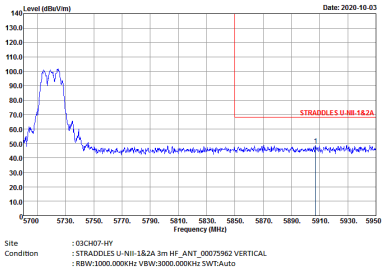
Band 3 - Straddle Channel

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

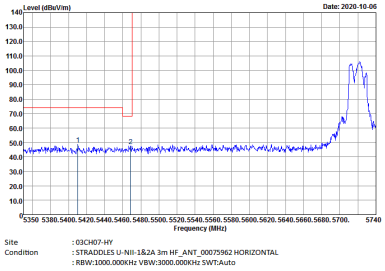
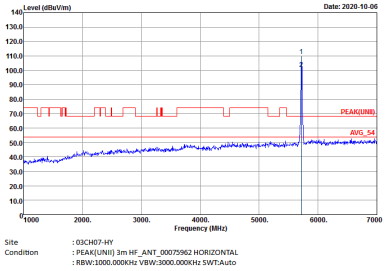
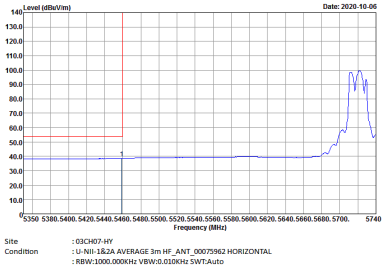
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1+2	Horizontal	Fundamental
Peak		Left blank

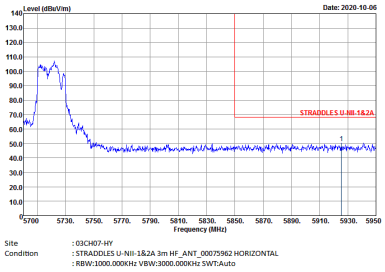
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

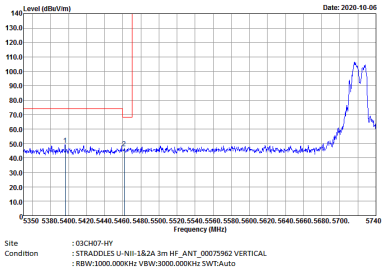
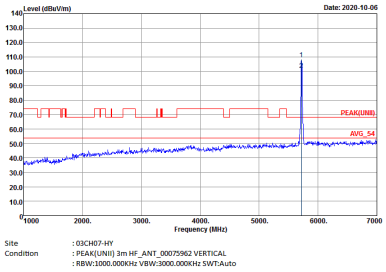
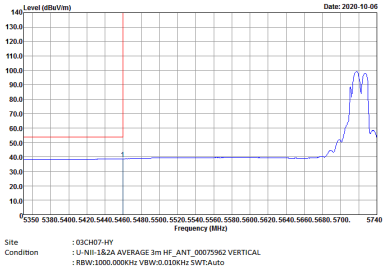
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

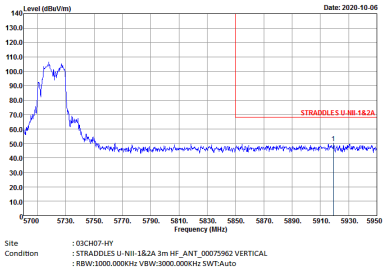
Band 3 – Straddle Channel

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

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

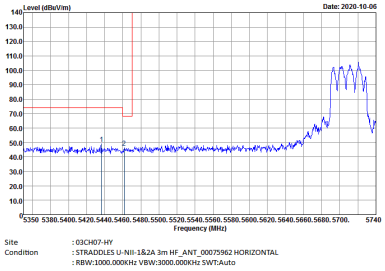
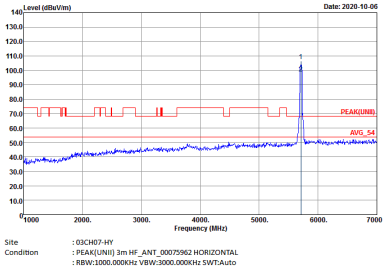
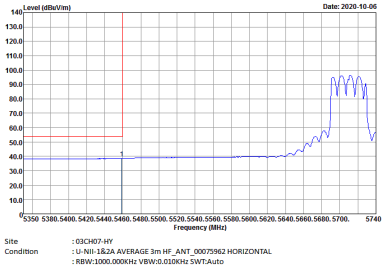
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

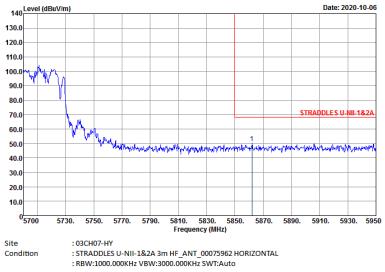
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

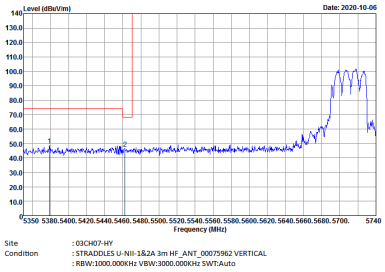
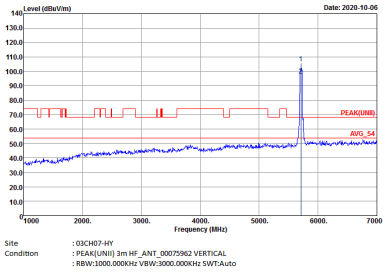
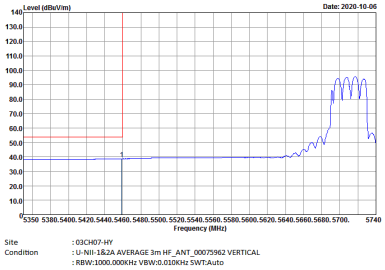
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

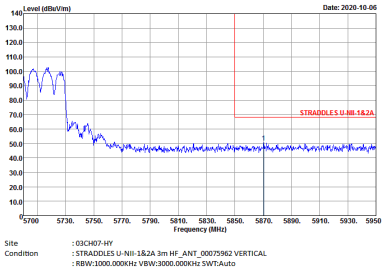
Band 3 - Straddle Channel

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

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

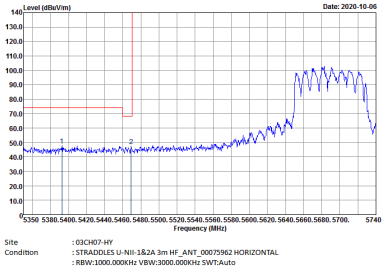
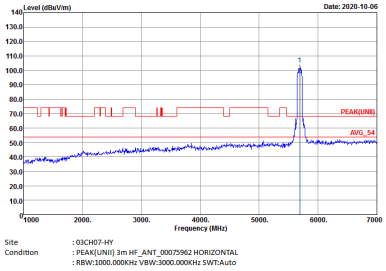
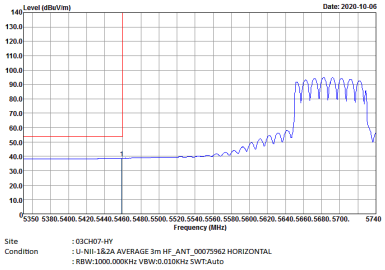
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

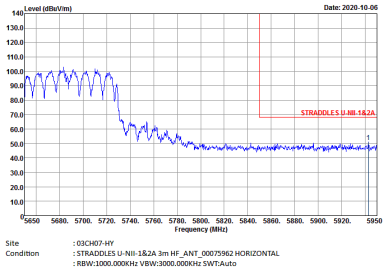
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

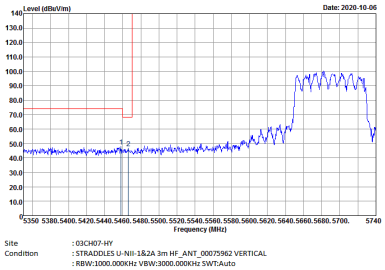
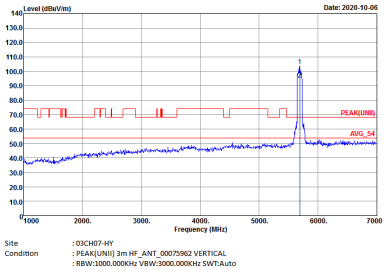
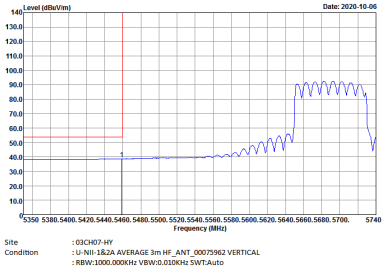
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

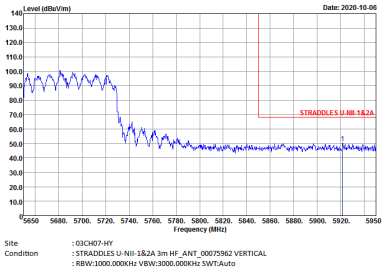
Band 3 – Straddle Channel

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

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

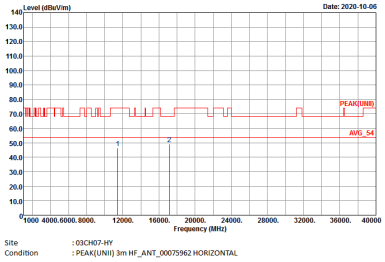
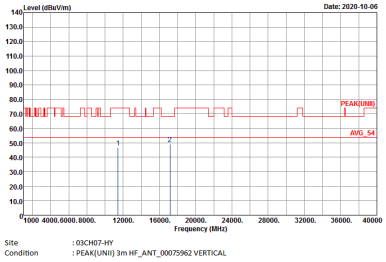
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax CH138 5690MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

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

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

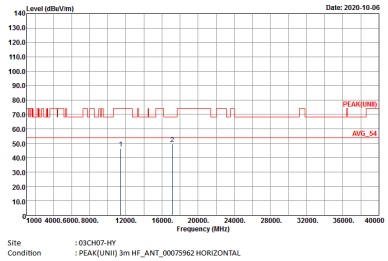
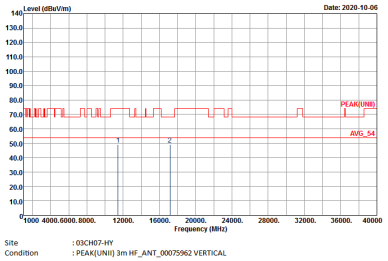
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

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

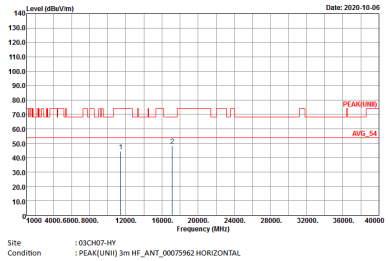
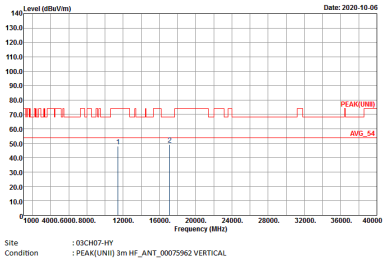
Band 3 – Straddle Channel

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

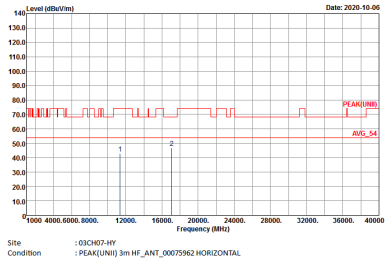
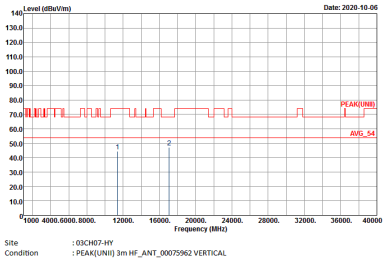
Band 3 – Straddle Channel

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

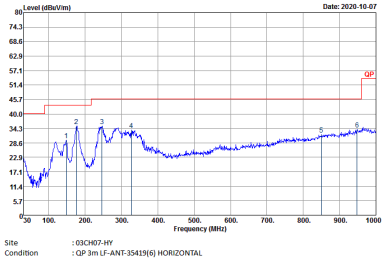
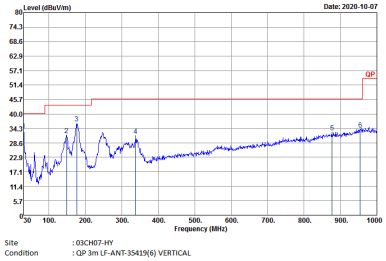
Band 3 – Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE80 Full CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

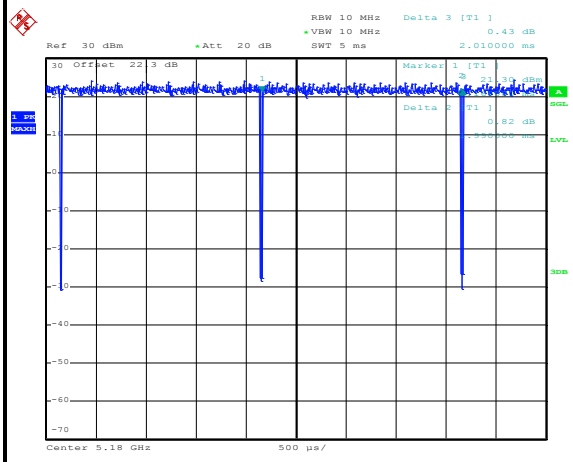
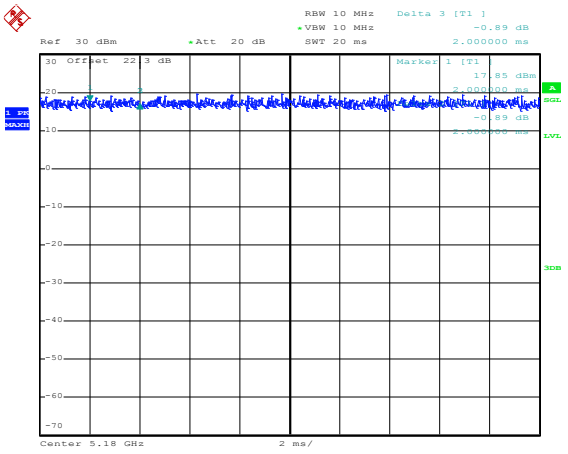
5GHz WIFI 802.11ax HE80 Full (LF)

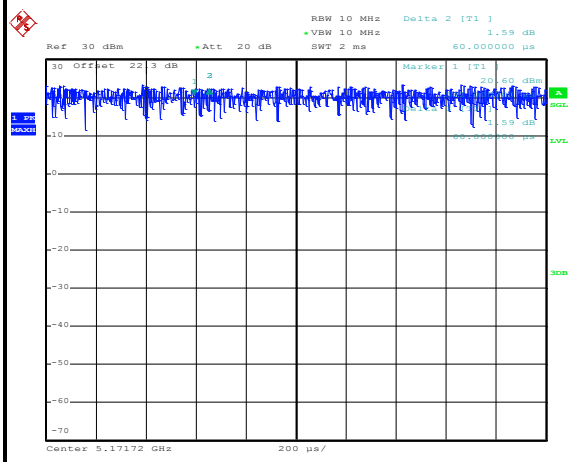
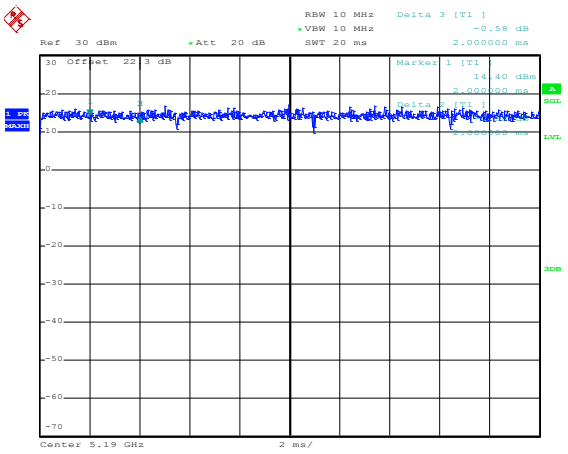
WIFI	5GHz WIFI	
ANT	802.11ax HE80 Full LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

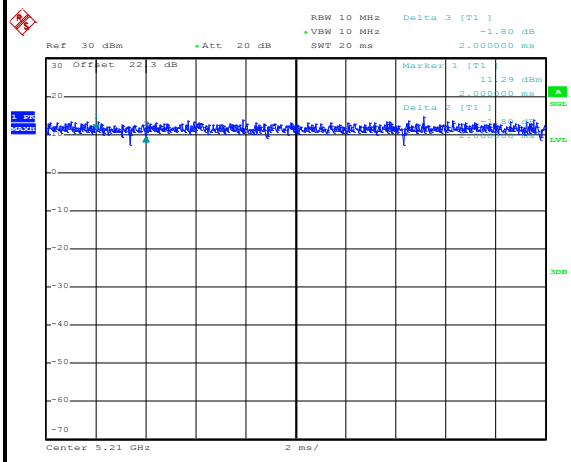
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant 1	99.00	-	-	10Hz	0.04
1+2	802.11a for Ant 2	99.00	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE20 Full RU for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE20 Full RU for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE20 26 RU for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE20 26 RU for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE40 Full RU for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE40 Full RU for Ant 2	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE80 Full RU for Ant 1	100.00	-	-	10Hz	0.00
1+2	5GHz 802.11ax HE80 Full RU for Ant 2	100.00	-	-	10Hz	0.00

MIMO <Ant. 1>

802.11a	802.11ax HE20_Full RU
 Date: 20.SEP.2020 01:41:07	 Date: 20.SEP.2020 02:10:08

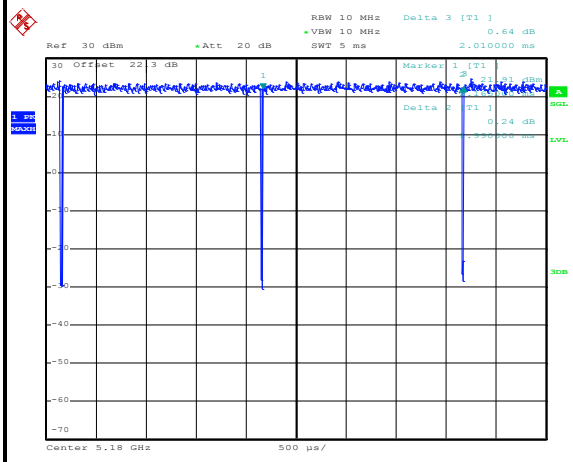
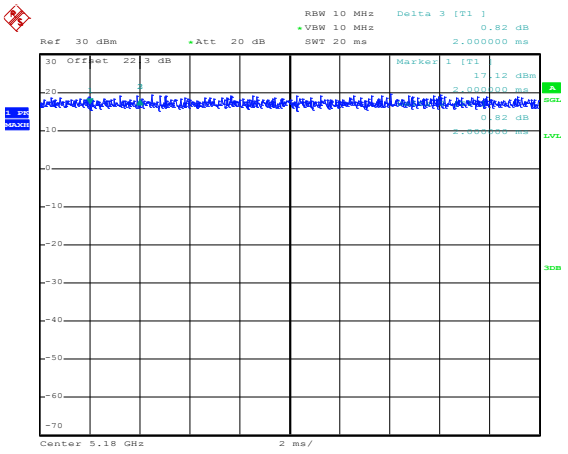
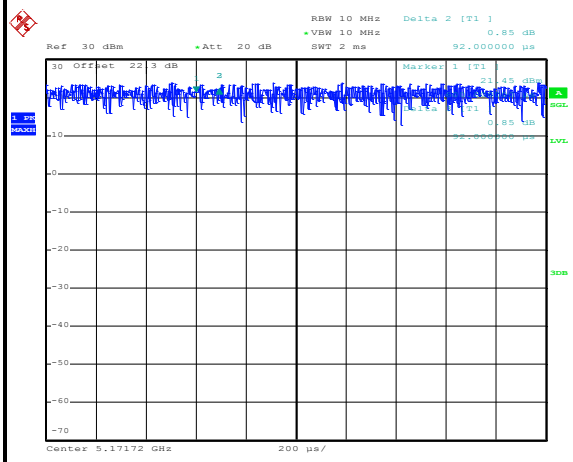
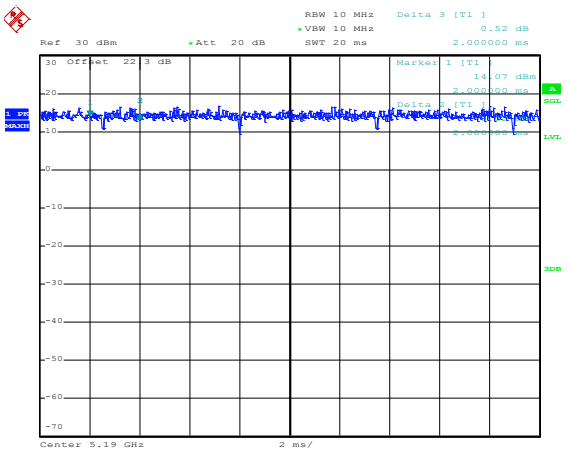
802.11ax HE20_26 RU	802.11ax HE40_Full RU
 Date: 24.SEP.2020 01:05:44	 Date: 20.SEP.2020 02:14:32

802.11ax HE80_Full RU



Date: 20.SEP.2020 02:16:10

MIMO <Ant. 2>

802.11a	802.11ax HE20_Full RU
 Date: 20.SEP.2020 01:41:43	 Date: 20.SEP.2020 02:09:34
802.11ax HE20_26 RU	**802.11ax HE40_Full RU**
 Date: 24.SEP.2020 01:06:40	 Date: 20.SEP.2020 02:14:59

802.11ax HE80_Full RU