



FCC RADIO TEST REPORT

FCC ID : A4R-H2D
Equipment : Interactive internet streaming device
Model Name : H2D
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jun. 05, 2019 and testing was started from Jun. 18, 2019 and completed on Aug. 12, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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
FR960558E	01	Initial issue of report	Aug. 15, 2019
FR960558E	02	Revise the accessory mobile FCC ID	Aug. 20, 2019
FR960558E	03	Remove description of out-of-band emission for KDB789033 D02 v02r01 G)2)c)	Sep. 02, 2019
FR960558E	04	- Revise the description of EUT supported radio to 802.15.4. - Revised Connection Diagram of Test System config.	Sep. 20, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.58 dB at 5143.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 4.04 dB at 0.618 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: Ann Lee



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Interactive internet streaming device
Model Name	H2D
FCC ID	A4R-H2D
EUT supports Radios application	WLAN 11b/g/n HT20/HT40 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE 802.15.4
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
No.	S/N
#1	96040EXANZZ144
#2	96010EXANZZ0YK
#3	96050EXANZZ2T3

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz
Maximum Output Power to Antenna <CDD Mode>	MIMO <Ant. 1+2+3+4> 802.11a : 25.00 dBm / 0.3162 W 802.11n HT20 : 25.23 dBm / 0.3334 W 802.11n HT40 : 26.15 dBm / 0.4121 W 802.11ac VHT20: 25.13 dBm / 0.3258 W 802.11ac VHT40: 25.97 dBm / 0.3954 W 802.11ac VHT80: 18.90 dBm / 0.0776 W
Maximum Output Power to Antenna <TXBF Mode>	MIMO <Ant. 1+2+3+4> 802.11ac VHT20: 24.98 dBm / 0.3148 W 802.11ac VHT40: 25.83 dBm / 0.3828 W 802.11ac VHT80: 17.91 dBm / 0.0618 W
99% Occupied Bandwidth <CDD Mode>	MIMO <Ant. 1> 802.11a : 16.50 MHz 802.11n HT20 : 17.70 MHz 802.11n HT40 : 36.20 MHz 802.11n HT80 : 76.80 MHz MIMO <Ant. 2> 802.11a : 16.50 MHz 802.11n HT20 : 17.70 MHz 802.11n HT40 : 36.30 MHz 802.11n HT80 : 77.04 MHz MIMO <Ant. 3> 802.11a : 16.55 MHz 802.11n HT20 : 17.70 MHz 802.11n HT40 : 36.30 MHz 802.11n HT80 : 76.92 MHz MIMO <Ant. 4> 802.11a : 16.55 MHz 802.11n HT20 : 17.65 MHz 802.11n HT40 : 36.40 MHz 802.11n HT80 : 76.80 MHz
99% Occupied Bandwidth <TXBF Mode>	MIMO <Ant. 1> 802.11ac VHT20 : 17.90 MHz 802.11ac VHT40 : 37.20 MHz 802.11ac VHT80 : 77.52 MHz MIMO <Ant. 2> 802.11ac VHT20 : 18.05 MHz 802.11ac VHT40 : 37.50 MHz 802.11ac VHT80 : 78.36 MHz MIMO <Ant. 3> 802.11ac VHT20 : 18.00 MHz 802.11ac VHT40 : 37.20 MHz 802.11ac VHT80 : 78.24 MHz MIMO <Ant. 4> 802.11ac VHT20 : 17.95 MHz 802.11ac VHT40 : 36.90 MHz 802.11ac VHT80 : 77.28 MHz

Standards-related Product Specification					
Antenna Type / Gain	Ant. 1 : PIFA Antenna with gain 3.49 dBi Ant. 2 : PIFA Antenna with gain 4.82 dBi Ant. 3 : PIFA Antenna with gain 4.46 dBi Ant. 4 : PIFA Antenna with gain 4.08 dBi				
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Antenna Function Description		Ant. 1	Ant. 2	Ant. 3	Ant. 4
	802.11 a/n/ac	V	V	V	V
	802.11 a/n/ac MIMO	V	V	V	V
	802.11 ac TXBF	V	V	V	V

Note:

1. MIMO Ant. 1+2+3+4 is a calculated result from sum of the power MIMO Ant. 1, MIMO Ant. 2, MIMO Ant. 3 and MIMO Ant. 4.
2. Ant. 1 & 2 and Ant. 3 & 4 are cross-polarization antenna.

1.3 Modification of EUT

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

1.4 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	DFS02-HY	

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

FCC designation No.: TW1190



1.5 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.
- ♦ FCC KDB 662911 D02 MIMO with Cross- Polarized Antennas 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. 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).
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Note:

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

CDD Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

TXBF Mode

Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + WLAN (5GHz) Link + Bluetooth Link + 802.15.4 Link + Wan Link + Lan Link + AC Adapter 1

<CCD Mode>

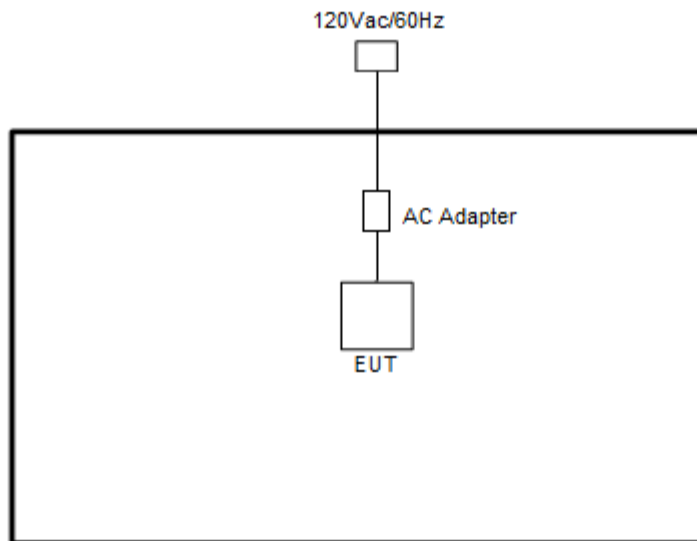
Ch. #		Band I : 5150-5250 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	36	36	38	-
M	Middle	40	40	-	42
H	High	48	48	46	-

<TXBF Mode>

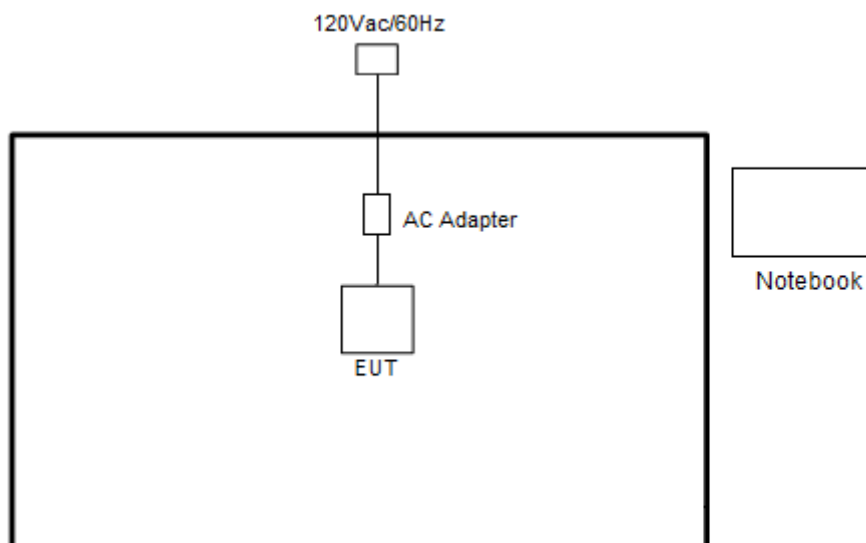
Ch. #		Band I : 5150-5250 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	36	38	-
M	Middle	40	-	42
H	High	48	46	-

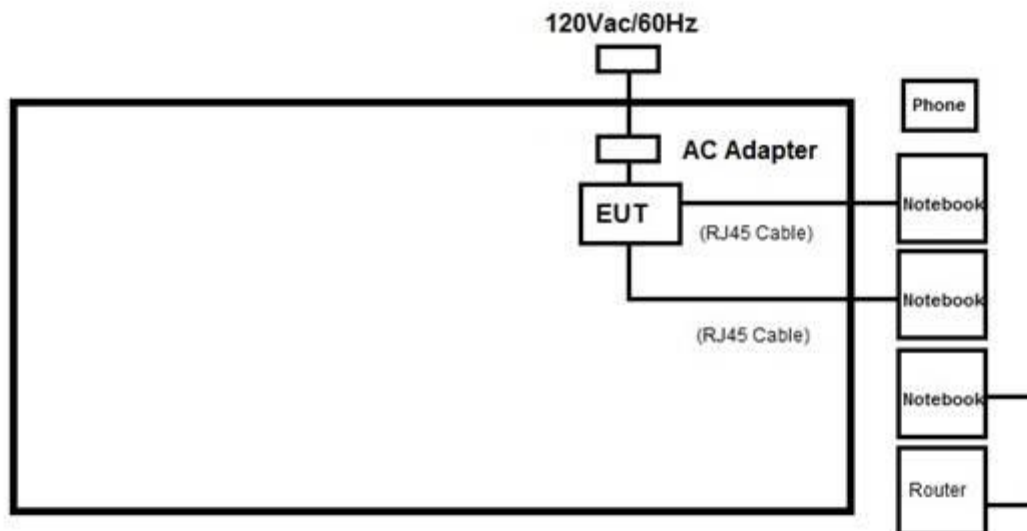
2.3 Connection Diagram of Test System

<CDD Mode>



<TXBF Mode>



<AC Conducted Emission Mode>

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Mobile Phone	Apple	A1687	BCG-E2944A	N/A	N/A
5.	Router	N/A	N/A	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “QRCT version: 4.0-00113” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to notebook by power under the normal operation. The “Putty” software tool was used to enable the EUT to transmit signals continuously.

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.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

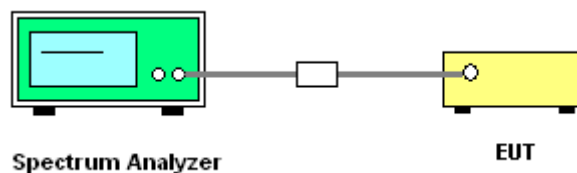
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

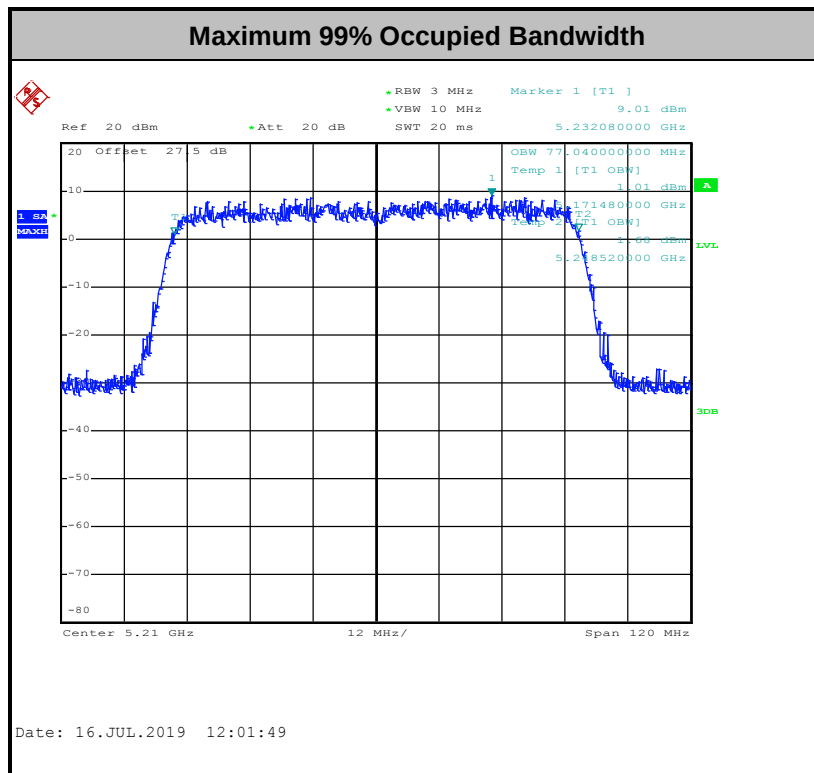
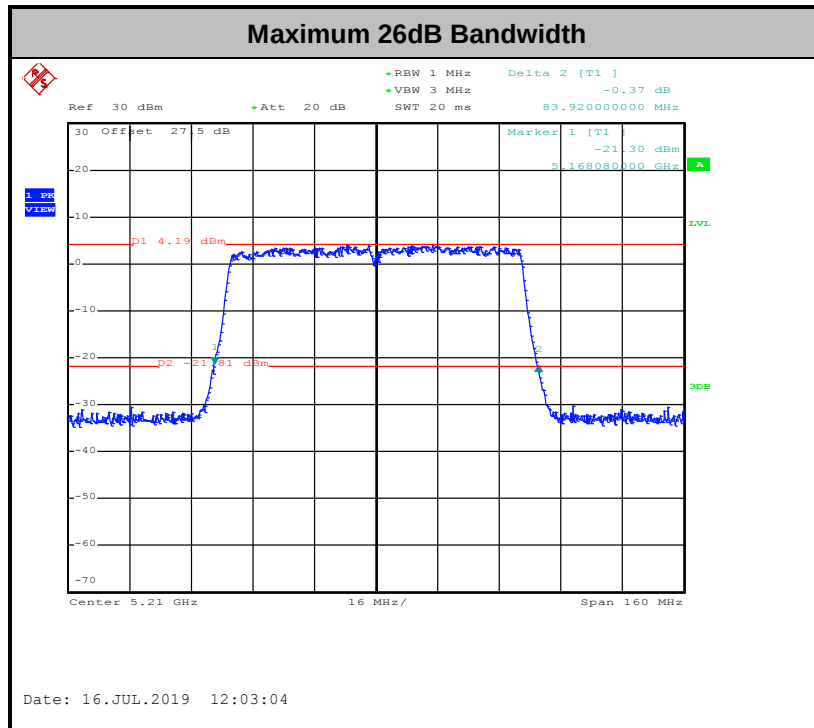
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup

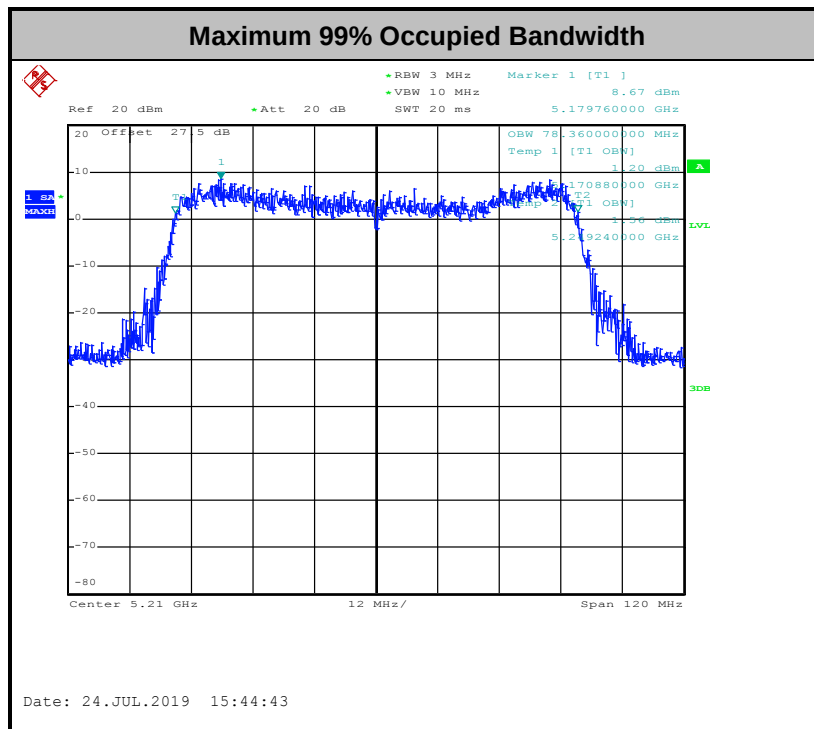
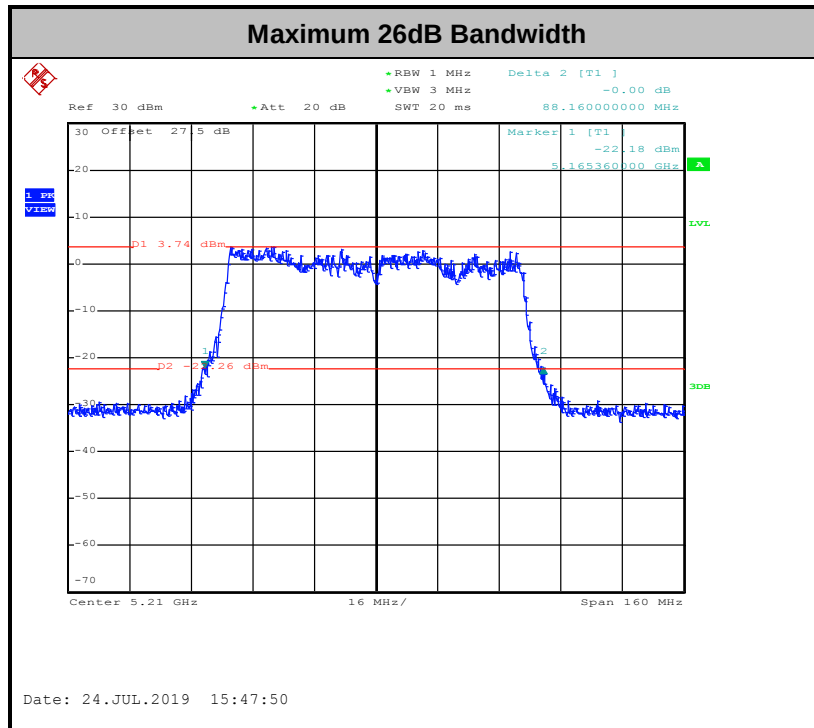


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

<CDD Mode>


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

<TXBF Modes>


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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

<CDD Modes>

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.

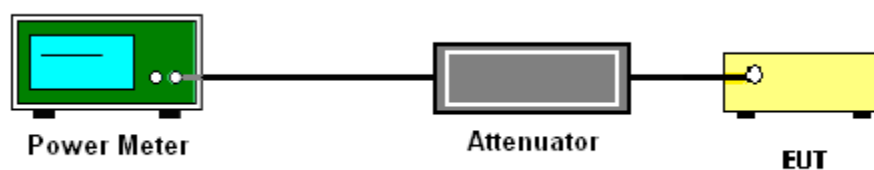
<TXBF Modes>

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-3

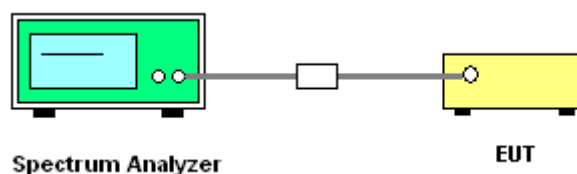
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 - Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

The total final Power Spectral Density is from a device with 4 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2, output 3 and output 4 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

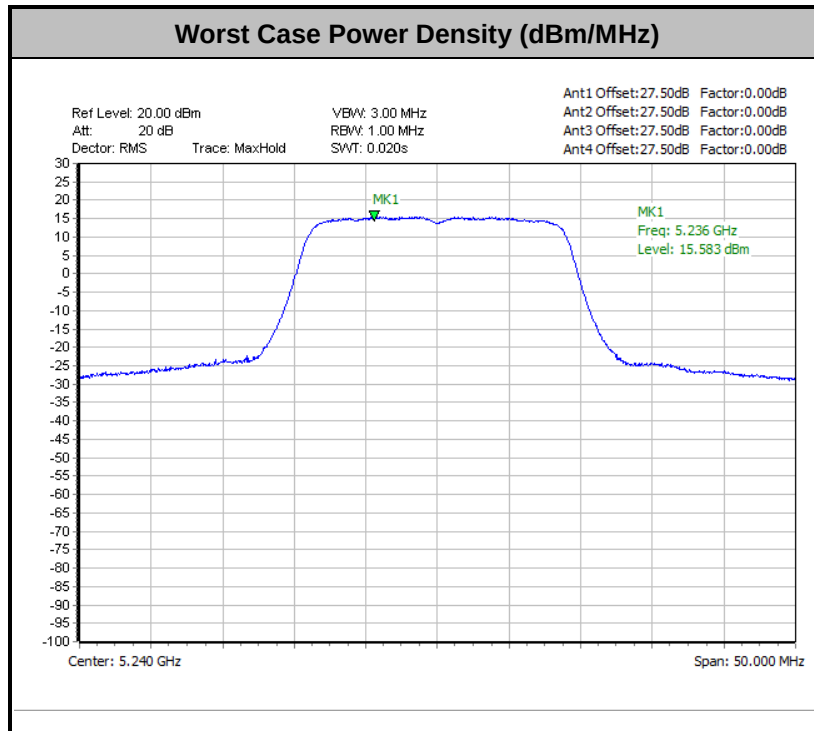


3.3.5 Test Result of Power Spectral Density

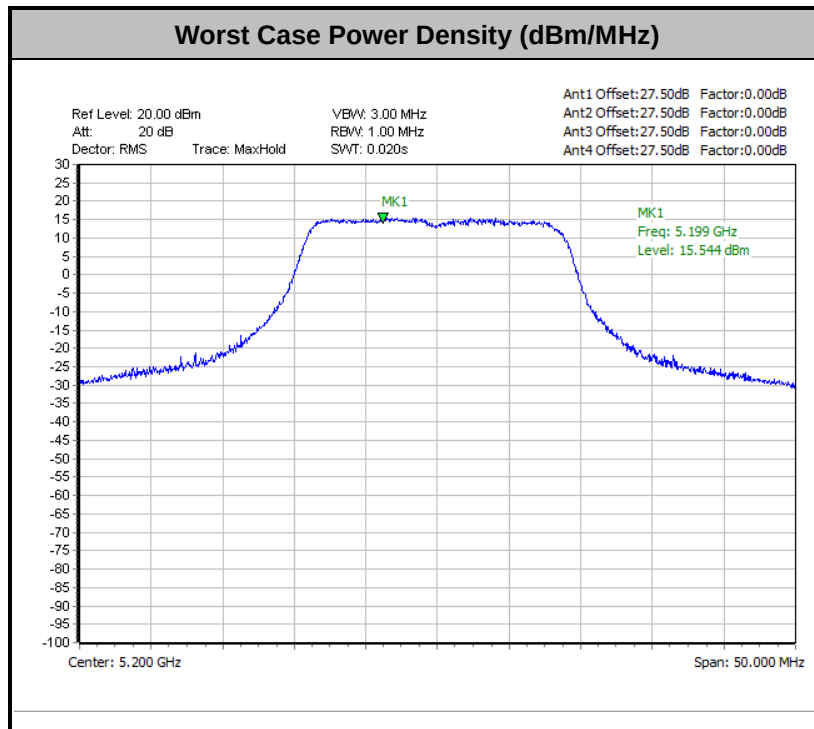
Please refer to Appendix A.



<CDD Modes>



<TXBF Modes>



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.

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



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

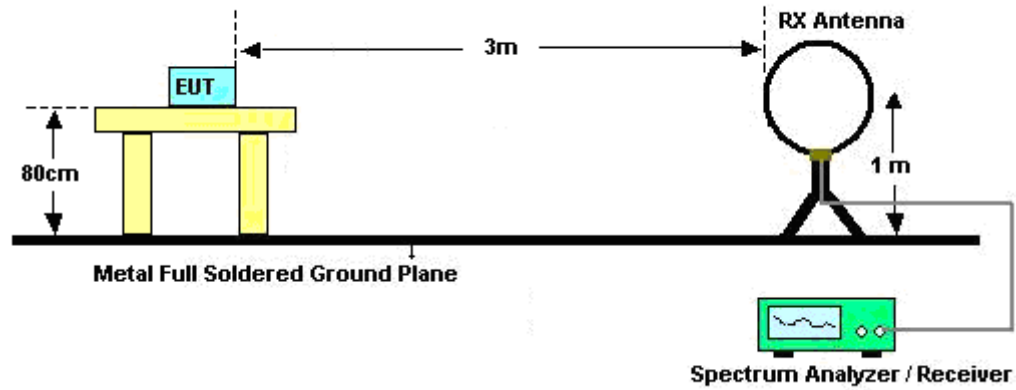
- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

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

- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, 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.

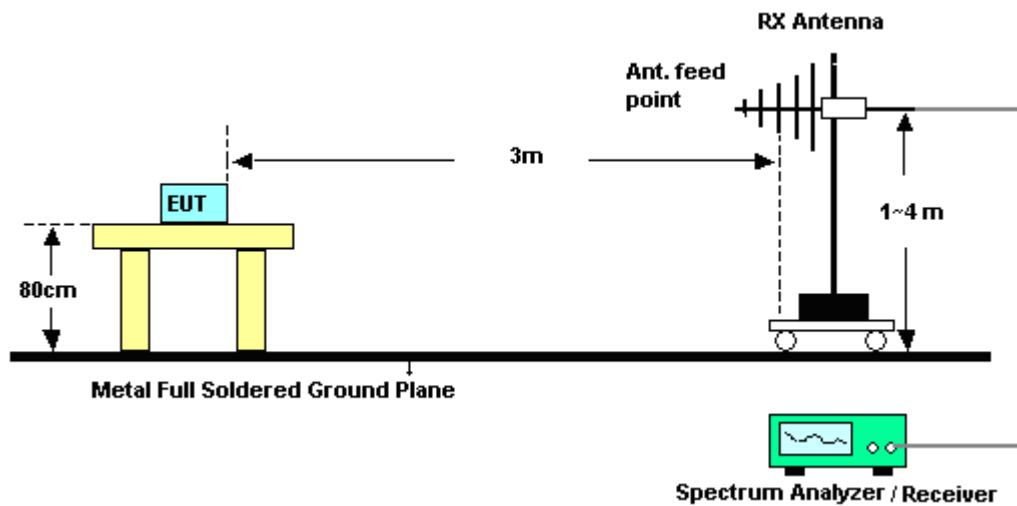
3.4.4 Test Setup

For radiated emissions below 30MHz

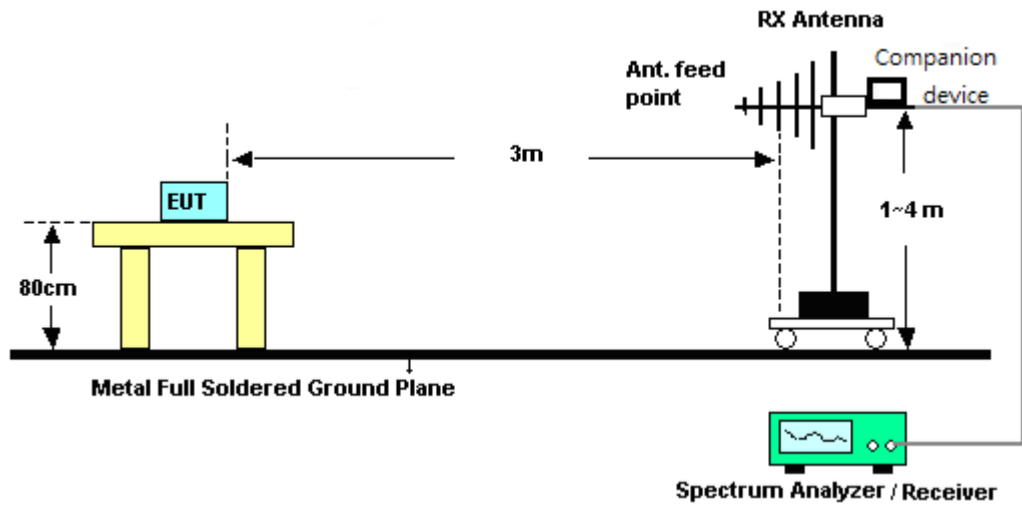


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

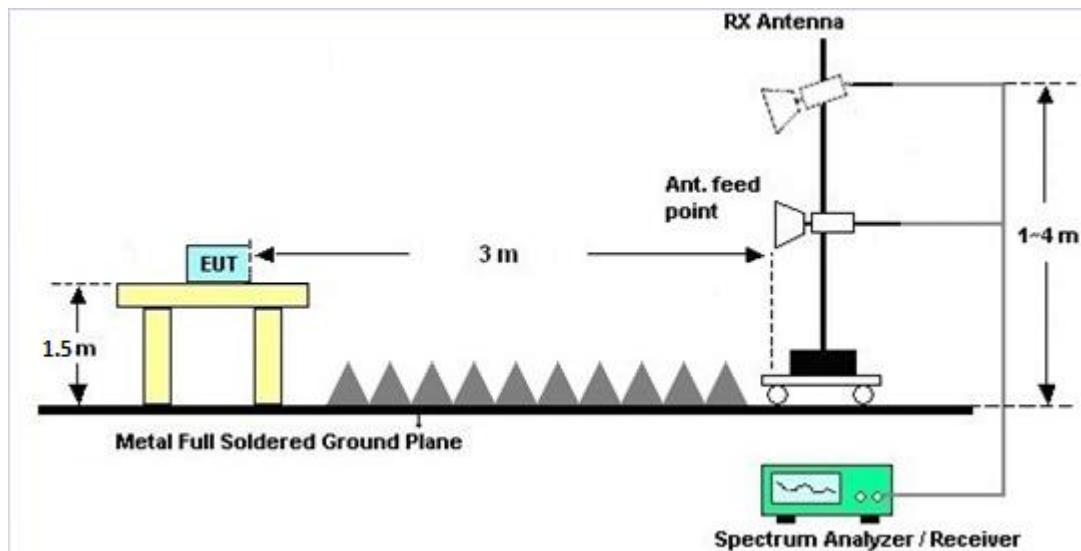


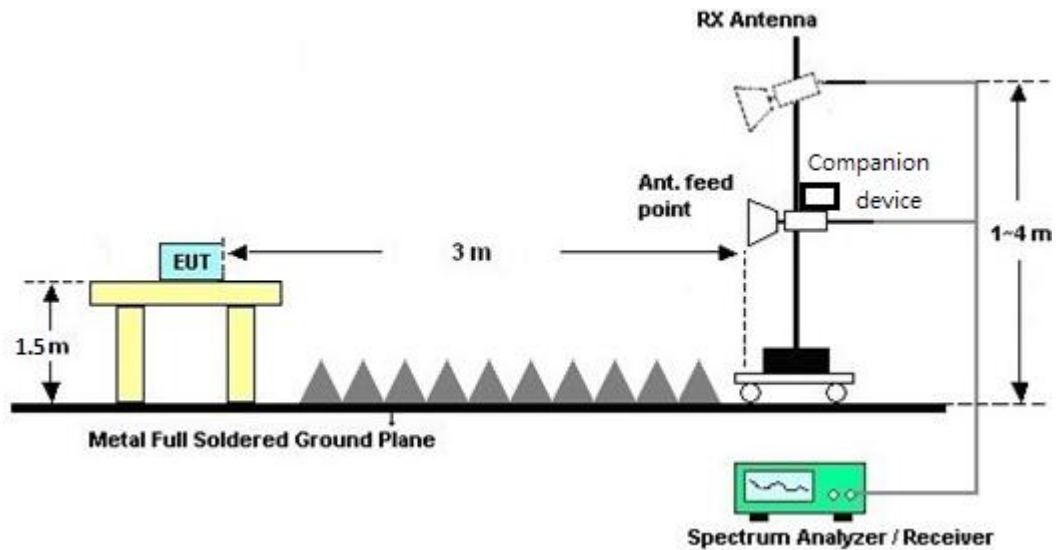
<TXBF Modes>



For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>

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 (dB μ V)	
	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.

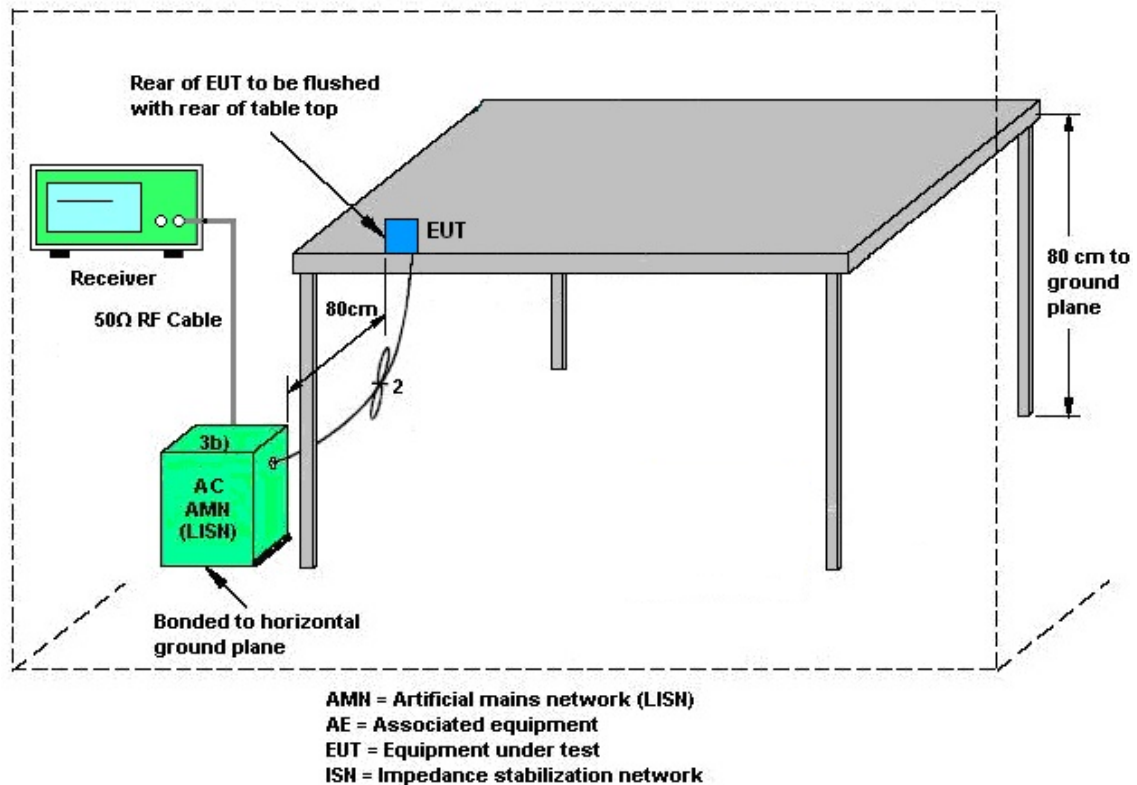
3.5.2 Measuring Instruments

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



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

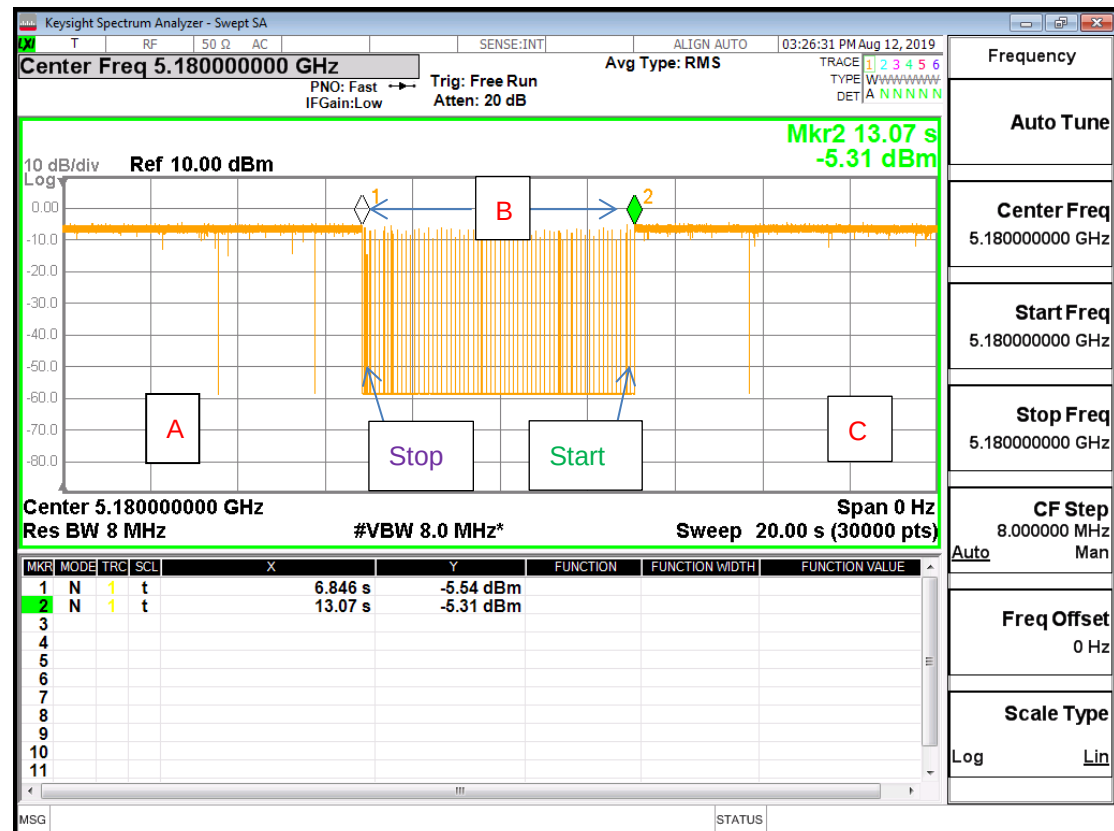
While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

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

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



5180MHz



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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 662911 D02 MIMO with Cross-Polarized Antennas 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 = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $\text{NANT} \leq 4$.

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) & F)2)c)ii)

For PSD, the directional gain calculation is following F)2)f)ii) & F)2)c)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>				
Antenna polarization	Vertical		Horizontal	
5.2 Band	Ant 1	Ant 2	Ant 3	Ant 4
	(dBi)	(dBi)	(dBi)	(dBi)
	3.49	4.82	4.46	4.08
Note:Ant 1 & 2 and Ant 3 & 4 are cross-polarization antenna.				
5.2G Band Antenna	DG	DG	Power	PSD
	for	for	Limit	Limit
	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dB)	(dB)
1+2+3+4	4.82	7.28	0.00	1.28

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 662911 D02 MIMO with Cross-Polarized Antennas v02r01

Directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) & F)2)c)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.

Antenna polarization	Vertical		Horizontal	
5.2G Band	Ant 1	Ant 2	Ant 3	Ant 4
	(dBi)	(dBi)	(dBi)	(dBi)
	3.49	4.82	4.46	4.08
Note:Ant 1 & 2 and Ant 3 & 4 are cross-polarization antenna.				
5.2G Band Antenna	DG	DG	Power	PSD
	for	for	Limit	Limit
	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dB)	(dB)
1+2+3+4	7.28	7.28	1.28	1.28

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Jan. 23, 2019	Jun.10, 2019~ Jul. 26, 2019	Jan. 22, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 18, 2019	Jun.10, 2019~ Jul. 26, 2019	Apr. 17, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Jun.10, 2019~ Jul. 26, 2019	Jan. 10, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Jun.10, 2019~ Jul. 26, 2019	Apr. 29, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2018	Jun.10, 2019~ Jul. 26, 2019	Dec. 02, 2019	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 20, 2018	Jun.10, 2019~ Jul. 26, 2019	Nov. 19, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Jun.10, 2019~ Jul. 26, 2019	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 24, 2019	Jun.10, 2019~ Jul. 26, 2019	Apr. 23, 2020	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 02, 2018	Jun.10, 2019~ Jul. 26, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Preamplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	N/A	Jun.10, 2019~ Jul. 26, 2019	N/A	Radiation (03CH07-HY)
Filter	Microwave	H1G013G1	SN477215	1GHz High Pass Filter	Nov. 02, 2018	Jun.10, 2019~ Jul. 26, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Wainwright	WLKS1200-8S S	SN3	1.2GHz Low Pass Filter	Nov. 02, 2018	Jun.10, 2019~ Jul. 26, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
Filter	Microwave	H3G018G1	SN477220	3GHz High Pass Filter	Nov. 02, 2018	Jun.10, 2019~ Jul. 26, 2019	Nov. 01, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 26, 2019	Jun.10, 2019~ Jul. 26, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	Jun.10, 2019~ Jul. 26, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 26, 2019	Jun.10, 2019~ Jul. 26, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 26, 2019	Jun.10, 2019~ Jul. 26, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jun.10, 2019~ Jul. 26, 2019	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jun.10, 2019~ Jul. 26, 2019	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656 H	N/A	N/A	Jun.10, 2019~ Jul. 26, 2019	N/A	Radiation (03CH07-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 18, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jun. 18, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 18, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jun. 18, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 18, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 18, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 18, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Spectrum Analyzer	Keysight	N9010A	MY560704 12	10Hz~7GHz	Aug. 16, 2018	Aug. 12, 2019	Aug. 15, 2019	DFS (DFS02-HY)
<CCD Mode>								
Power Sensor	DARE	RPR3006W	13I00030S NO32	9kHz~6GHz	Dec. 03, 2018	Jul. 10, 2019~ Jul. 16, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Jul. 10, 2019~ Jul. 16, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Jul. 10, 2019~ Jul. 16, 2019	Mar. 26, 2020	Conducted (TH05-HY)
<TXBF Mode>								
Power Sensor	DARE	RPR3006W	13I00030S NO32	9kHz~6GHz	Dec. 03, 2018	Jul. 23, 2019~ Jul. 26, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Jul. 23, 2019~ Jul. 26, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Jul. 23, 2019~ Jul. 26, 2019	Mar. 26, 2020	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Band I																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
11a	6Mbps	4	36	5180	20.90	21.05	21.00	20.90	16.45	16.50	16.55	16.50	22.16	22.17	22.19	22.17
11a	6Mbps	4	40	5200	21.00	21.00	21.30	21.00	16.50	16.50	16.55	16.55	22.17	22.17	22.19	22.19
11a	6Mbps	4	48	5240	21.05	21.15	21.15	21.05	16.50	16.50	16.50	16.55	22.17	22.17	22.17	22.19
HT20	MCS0	4	36	5180	21.80	21.65	22.00	22.00	17.70	17.65	17.70	17.65	22.48	22.47	22.48	22.47
HT20	MCS0	4	40	5200	21.80	21.60	21.96	21.80	17.65	17.70	17.65	17.65	22.47	22.48	22.47	22.47
HT20	MCS0	4	48	5240	21.90	21.75	22.10	22.05	17.70	17.65	17.70	17.65	22.48	22.47	22.48	22.47
HT40	MCS0	4	38	5190	40.54	40.50	40.86	40.86	36.20	36.30	36.30	36.30	23.01	23.01	23.01	23.01
HT40	MCS0	4	46	5230	40.68	40.68	41.04	40.93	36.20	36.20	36.30	36.40	23.01	23.01	23.01	23.01
VHT80	MCS0	4	42	5210	83.92	83.52	83.64	83.52	76.80	77.04	76.92	76.80	23.01	23.01	23.01	23.01

Appendix A. Test Result of Conducted Test Items

FCC Band I															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
11a	6Mbps	4	36	5180	1+2+3+4	18.00	18.00	17.70	18.20	24.00	30.00	4.82	28.82	-	Pass
11a	6Mbps	4	40	5200	1+2+3+4	18.60	18.80	18.70	19.20	24.85	30.00	4.82	29.67	-	Pass
11a	6Mbps	4	48	5240	1+2+3+4	18.80	19.20	18.90	19.00	25.00	30.00	4.82	29.82	-	Pass
HT20	MCS0	4	36	5180	1+2+3+4	18.60	18.80	18.50	18.60	24.65	30.00	4.82	29.47	-	Pass
HT20	MCS0	4	40	5200	1+2+3+4	18.40	18.50	18.70	18.70	24.60	30.00	4.82	29.42	-	Pass
HT20	MCS0	4	48	5240	1+2+3+4	19.00	19.60	19.00	19.20	25.23	30.00	4.82	30.05	-	Pass
HT40	MCS0	4	38	5190	1+2+3+4	14.00	14.30	14.10	14.10	20.15	30.00	4.82	24.97	-	Pass
HT40	MCS0	4	46	5230	1+2+3+4	19.80	20.10	20.30	20.30	26.15	30.00	4.82	30.97	-	Pass
VHT20	MCS0	4	36	5180	1+2+3+4	18.50	18.70	18.30	18.40	24.50	30.00	4.82	29.32	-	Pass
VHT20	MCS0	4	40	5200	1+2+3+4	18.40	18.40	18.60	18.60	24.52	30.00	4.82	29.34	-	Pass
VHT20	MCS0	4	48	5240	1+2+3+4	18.90	19.50	18.90	19.10	25.13	30.00	4.82	29.95	-	Pass
VHT40	MCS0	4	38	5190	1+2+3+4	13.90	14.30	14.00	13.90	20.05	30.00	4.82	24.87	-	Pass
VHT40	MCS0	4	46	5230	1+2+3+4	19.70	20.00	20.10	20.00	25.97	30.00	4.82	30.79	-	Pass
VHT80	MCS0	4	42	5210	1+2+3+4	13.20	12.70	12.70	12.90	18.90	30.00	4.82	23.72	-	Pass

Appendix A. Test Result of Conducted Test Items

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	4	36	5180	1+2+3+4	14.14	15.72	7.28		Pass
11a	6Mbps	4	40	5200	1+2+3+4	15.38	15.72	7.28		Pass
11a	6Mbps	4	48	5240	1+2+3+4	15.38	15.72	7.28		Pass
HT20	MCS0	4	36	5180	1+2+3+4	15.01	15.72	7.28		Pass
HT20	MCS0	4	40	5200	1+2+3+4	15.23	15.72	7.28		Pass
HT20	MCS0	4	48	5240	1+2+3+4	15.58	15.72	7.28		Pass
HT40	MCS0	4	38	5190	1+2+3+4	7.10	15.72	7.28		Pass
HT40	MCS0	4	46	5230	1+2+3+4	13.63	15.72	7.28		Pass
VHT80	MCS0	4	42	5210	1+2+3+4	2.35	15.72	7.28		Pass

Appendix A. Test Result of Conducted Test Items

<TXBF Mode>

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2019/7/23~2019/7/26	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	26 dB Bandwidth (MHz)				99% Bandwidth (MHz)				IC 99% Bandwidth EIRP Limit (dBm)			
					Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4	Ant 1	Ant 2	Ant 3	Ant 4
VHT20	MCS0	4	36	5180	28.25	24.95	24.70	24.45	17.90	18.00	18.00	17.90	22.53	22.55	22.55	22.53
VHT20	MCS0	4	40	5200	24.70	26.90	24.80	23.40	17.50	18.05	17.75	17.95	22.43	22.56	22.49	22.54
VHT20	MCS0	4	48	5240	24.45	25.35	23.95	25.25	17.80	17.90	17.85	17.95	22.50	22.53	22.52	22.54
VHT40	MCS0	4	38	5190	45.26	43.38	44.40	45.54	36.90	36.20	37.20	36.70	23.01	23.01	23.01	23.01
VHT40	MCS0	4	46	5230	60.00	59.42	63.06	60.87	37.20	37.50	36.90	36.90	23.01	23.01	23.01	23.01
VHT80	MCS0	4	42	5210	86.08	87.58	88.16	86.14	77.52	78.36	78.24	77.28	23.01	23.01	23.01	23.01

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average Conducted Power with duty factor (dBm)					FCC Power Limit (dBm)	DG (dBi)	FCC EIRP Power (dBm)	FCC EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 3	Ant 4	SUM					
VHT20	MCS0	4	36	5180	1+2+3+4	17.90	18.00	18.10	18.30	24.10	28.72	7.28	31.38	-	Pass
VHT20	MCS0	4	40	5200	1+2+3+4	18.60	19.10	19.00	19.10	24.98	28.72	7.28	32.26	-	Pass
VHT20	MCS0	4	48	5240	1+2+3+4	18.60	18.60	18.60	18.90	24.70	28.72	7.28	31.98	-	Pass
VHT40	MCS0	4	38	5190	1+2+3+4	14.20	13.90	14.10	14.40	20.17	28.72	7.28	27.46	-	Pass
VHT40	MCS0	4	46	5230	1+2+3+4	19.70	19.50	19.90	20.10	25.83	28.72	7.28	33.11	-	Pass
VHT80	MCS0	4	42	5210	1+2+3+4	11.30	12.30	11.90	12.00	17.91	28.72	7.28	25.19	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Ant	Average PSD with Duty Factor (dBm/MHz)	PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
VHT20	MCS0	4	36	5180	1+2+3+4	14.76	15.72	7.28		Pass
VHT20	MCS0	4	40	5200	1+2+3+4	15.54	15.72	7.28		Pass
VHT20	MCS0	4	48	5240	1+2+3+4	14.76	15.72	7.28		Pass
VHT40	MCS0	4	38	5190	1+2+3+4	9.33	15.72	7.28		Pass
VHT40	MCS0	4	46	5230	1+2+3+4	15.00	15.72	7.28		Pass
VHT80	MCS0	4	42	5210	1+2+3+4	2.11	15.72	7.28		Pass



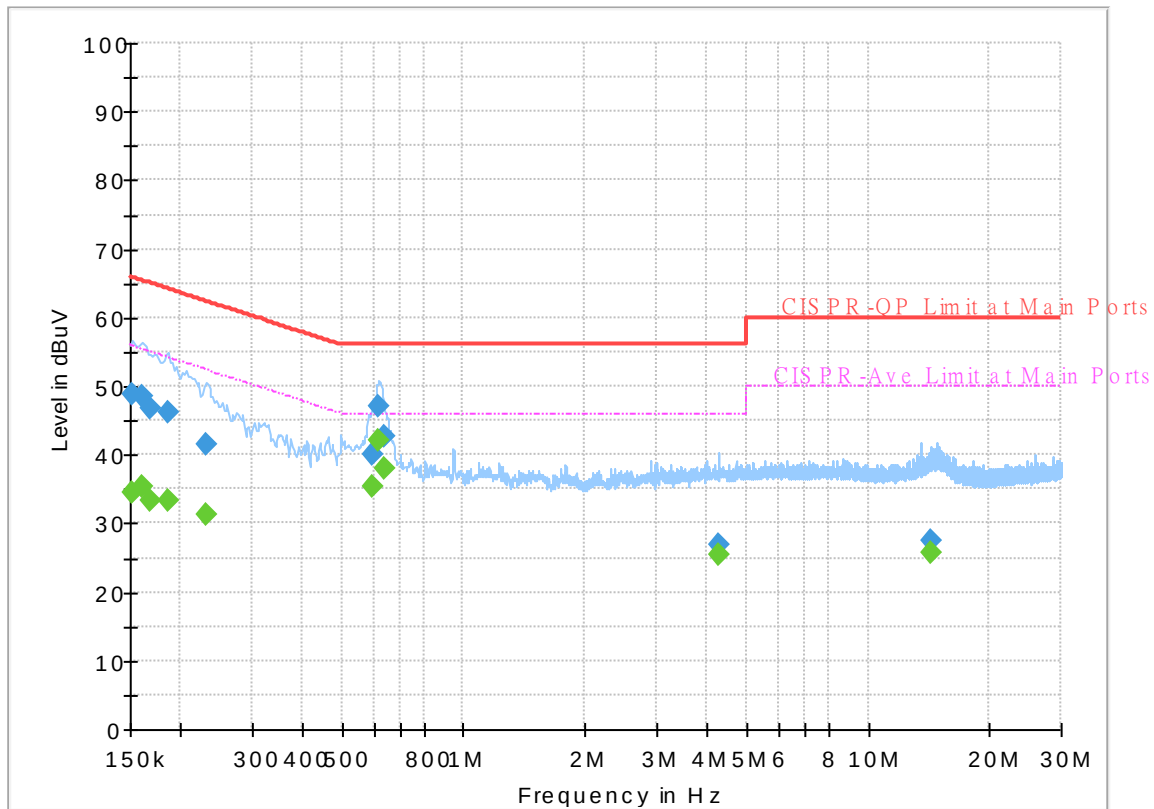
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	23~25℃
		Relative Humidity :	54~56%

EUT Information

Report NO : 960558-03
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



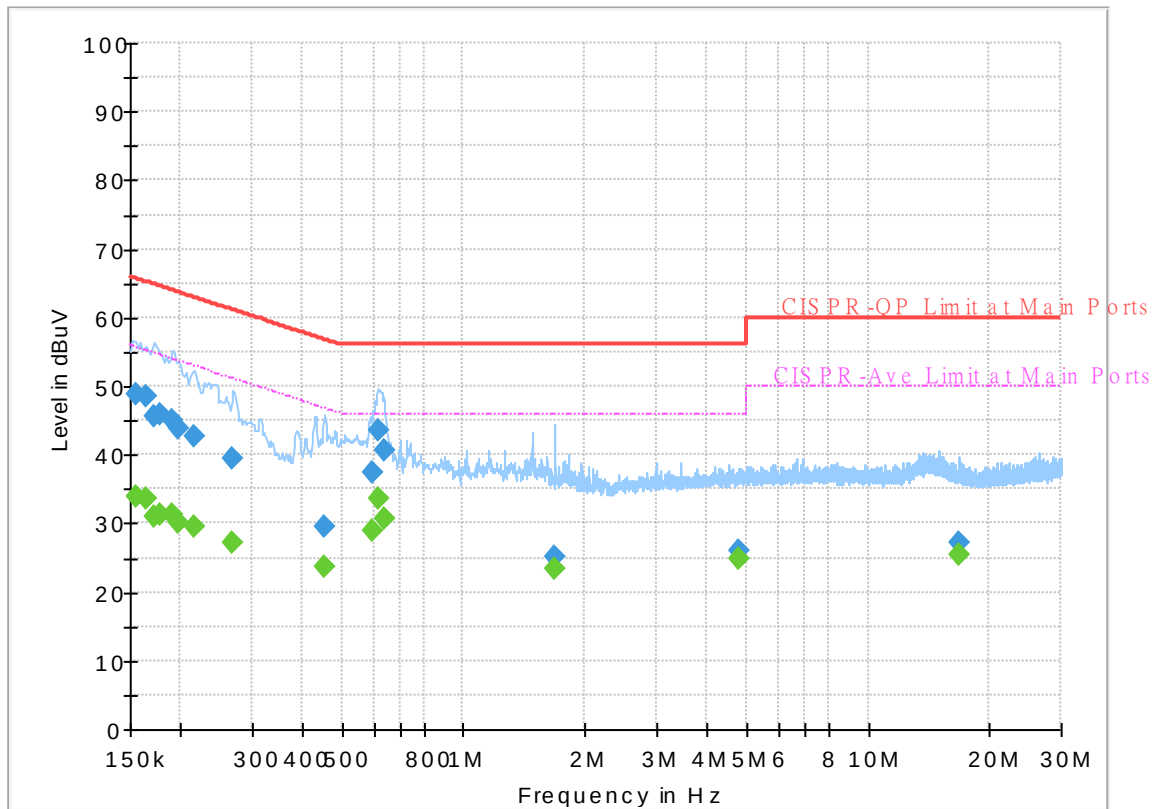
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	34.37	55.88	21.51	L1	OFF	19.5
0.152250	48.84	---	65.88	17.04	L1	OFF	19.5
0.161250	---	35.46	55.40	19.94	L1	OFF	19.5
0.161250	48.52	---	65.40	16.88	L1	OFF	19.5
0.168000	---	33.46	55.06	21.60	L1	OFF	19.5
0.168000	46.73	---	65.06	18.33	L1	OFF	19.5
0.186000	---	33.30	54.21	20.91	L1	OFF	19.5
0.186000	46.16	---	64.21	18.05	L1	OFF	19.5
0.231000	---	31.29	52.41	21.12	L1	OFF	19.5
0.231000	41.38	---	62.41	21.03	L1	OFF	19.5
0.595500	---	35.31	46.00	10.69	L1	OFF	19.5
0.595500	40.07	---	56.00	15.93	L1	OFF	19.5
0.618000	---	41.96	46.00	4.04	L1	OFF	19.6
0.618000	47.14	---	56.00	8.86	L1	OFF	19.6
0.636000	---	37.88	46.00	8.12	L1	OFF	19.6
0.636000	42.58	---	56.00	13.42	L1	OFF	19.6
4.290000	---	25.32	46.00	20.68	L1	OFF	19.7
4.290000	27.04	---	56.00	28.96	L1	OFF	19.7
14.383500	---	25.62	50.00	24.38	L1	OFF	20.1
14.383500	27.36	---	60.00	32.64	L1	OFF	20.1

EUT Information

Report NO : 960558-03
 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)
0.154500	---	33.84	55.75	21.91	N	OFF	19.5
0.154500	48.78	---	65.75	16.97	N	OFF	19.5
0.163500	---	33.51	55.28	21.77	N	OFF	19.5
0.163500	48.50	---	65.28	16.78	N	OFF	19.5
0.172500	---	31.08	54.84	23.76	N	OFF	19.5
0.172500	45.73	---	64.84	19.11	N	OFF	19.5
0.177000	---	31.38	54.63	23.25	N	OFF	19.5
0.177000	45.94	---	64.63	18.69	N	OFF	19.5
0.190500	---	31.28	54.02	22.74	N	OFF	19.5
0.190500	45.05	---	64.02	18.97	N	OFF	19.5
0.197250	---	30.09	53.73	23.64	N	OFF	19.5
0.197250	43.90	---	63.73	19.83	N	OFF	19.5
0.215250	---	29.40	53.00	23.60	N	OFF	19.5
0.215250	42.82	---	63.00	20.18	N	OFF	19.5
0.269250	---	27.32	51.14	23.82	N	OFF	19.5
0.269250	39.61	---	61.14	21.53	N	OFF	19.5
0.451500	---	23.74	46.85	23.11	N	OFF	19.5
0.451500	29.52	---	56.85	27.33	N	OFF	19.5
0.597750	---	28.86	46.00	17.14	N	OFF	19.5
0.597750	37.34	---	56.00	18.66	N	OFF	19.5
0.613500	---	33.60	46.00	12.40	N	OFF	19.6

0.613500	43.61	---	56.00	12.39	N	OFF	19.6
0.636000	---	30.83	46.00	15.17	N	OFF	19.6
0.636000	40.50	---	56.00	15.50	N	OFF	19.6
1.684500	---	23.46	46.00	22.54	N	OFF	19.6
1.684500	25.24	---	56.00	30.76	N	OFF	19.6
4.780500	---	24.80	46.00	21.20	N	OFF	19.7
4.780500	26.08	---	56.00	29.92	N	OFF	19.7
16.743750	---	25.47	50.00	24.53	N	OFF	20.2
16.743750	27.13	---	60.00	32.87	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and KenWu	Temperature :	21~28°C
		Relative Humidity :	51~68%

<CCD Mode>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5143.26	57.45	-16.55	74	46.91	34.3	11.29	35.05	366	177	P	H
		5143	49.09	-4.91	54	38.55	34.3	11.29	35.05	366	177	A	H
	*	5180	119.64	-	-	109.1	34.3	11.29	35.05	366	177	P	H
	*	5180	111.63	-	-	101.09	34.3	11.29	35.05	366	177	A	H
													H
													H
		5146.9	61.01	-12.99	74	50.47	34.3	11.29	35.05	233	268	P	V
		5146.9	51.8	-2.2	54	41.26	34.3	11.29	35.05	233	268	A	V
	*	5180	119.74	-	-	109.2	34.3	11.29	35.05	233	268	P	V
	*	5180	111.84	-	-	101.3	34.3	11.29	35.05	233	268	A	V
													V
													V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 40 5200MHz		5141.18	56.23	-17.77	74	45.69	34.3	11.29	35.05	362	176	P	H
		5144.82	47.13	-6.87	54	36.59	34.3	11.29	35.05	362	176	A	H
	*	5200	123.41	-	-	112.82	34.3	11.34	35.05	362	176	P	H
	*	5200	114.99	-	-	104.4	34.3	11.34	35.05	362	176	A	H
		5353.88	50.89	-23.11	74	40.05	34.4	11.49	35.05	362	176	P	H
		5353.6	42.18	-11.82	54	31.34	34.4	11.49	35.05	362	176	A	H
		5148.98	63.39	-10.61	74	52.85	34.3	11.29	35.05	290	270	P	V
		5148.98	52.4	-1.6	54	41.86	34.3	11.29	35.05	290	270	P	V
	*	5200	123.79	-	-	113.2	34.3	11.34	35.05	290	270	P	V
	*	5200	115.92	-	-	105.33	34.3	11.34	35.05	290	270	A	V
		5354.44	50.69	-23.31	74	39.85	34.4	11.49	35.05	290	270	P	V
		5351.36	42.05	-11.95	54	31.21	34.4	11.49	35.05	290	270	A	V
802.11a CH 48 5240MHz		5145.6	52.58	-21.42	74	42.04	34.3	11.29	35.05	360	176	P	H
		5000	43.23	-10.77	54	33.19	34	11.08	35.04	360	176	A	H
	*	5240	123.5	-	-	112.8	34.37	11.38	35.05	360	176	P	H
	*	5240	115	-	-	104.3	34.37	11.38	35.05	360	176	A	H
		5363.4	51.39	-22.61	74	40.48	34.47	11.49	35.05	360	176	P	H
		5354.72	42.96	-11.04	54	32.12	34.4	11.49	35.05	360	176	A	H
		5141.18	51.38	-22.62	74	40.84	34.3	11.29	35.05	258	270	P	V
		5149.24	43.11	-10.89	54	32.57	34.3	11.29	35.05	258	270	A	V
	*	5240	123.47	-	-	112.77	34.37	11.38	35.05	258	270	P	V
	*	5240	115.6	-	-	104.9	34.37	11.38	35.05	258	270	A	V
		5372.64	52.19	-21.81	74	41.28	34.47	11.49	35.05	258	270	P	V
		5370.96	42.25	-11.75	54	31.34	34.47	11.49	35.05	258	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	46.59	-21.61	68.2	51.42	37.33	17.42	59.58	100	0	P	H
		15540	50.66	-23.34	74	46.59	40.27	20.32	56.52	100	0	P	H
													H
													H
		10360	47.01	-21.19	68.2	51.84	37.33	17.42	59.58	100	0	P	V
		15540	50.51	-23.49	74	46.44	40.27	20.32	56.52	100	0	P	V
													V
													V
802.11a CH 40 5200MHz		10400	47.19	-21.01	68.2	51.92	37.4	17.43	59.56	100	0	P	H
		15600	49.81	-24.19	74	45.87	40.2	20.37	56.63	100	0	P	H
													H
													H
		10400	47.6	-20.6	68.2	52.33	37.4	17.43	59.56	100	0	P	V
		15600	57.72	-16.28	74	53.78	40.2	20.37	56.63	100	276	P	V
		15600	46.17	-7.83	54	42.23	40.2	20.37	56.63	100	276	A	V
													V
802.11a CH 48 5240MHz		10480	47.23	-20.97	68.2	51.87	37.4	17.46	59.5	100	0	P	H
		15720	55.31	-18.69	74	51.27	40.43	20.42	56.81	100	307	P	H
		15720	45.75	-8.25	54	41.71	40.43	20.42	56.81	100	307	A	H
													H
		10480	47.32	-20.88	68.2	51.96	37.4	17.46	59.5	100	0	P	V
		15720	59.22	-14.78	74	55.18	40.43	20.42	56.81	100	220	P	V
		15720	49.92	-4.08	54	45.88	40.43	20.42	56.81	100	220	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5145.08	59.83	-14.17	74	49.29	34.3	11.29	35.05	366	177	P	H
		5142.48	50.34	-3.66	54	39.8	34.3	11.29	35.05	366	177	A	H
	*	5180	121.34	-	-	110.8	34.3	11.29	35.05	366	177	P	H
	*	5180	111.94	-	-	101.4	34.3	11.29	35.05	366	177	A	H
													H
													H
		5150	60.45	-13.55	74	49.91	34.3	11.29	35.05	233	268	P	V
		5143	52.42	-1.58	54	41.88	34.3	11.29	35.05	233	268	A	V
	*	5180	120.79	-	-	110.25	34.3	11.29	35.05	233	268	P	V
	*	5180	112.29	-	-	101.75	34.3	11.29	35.05	233	268	A	V
													V
													V
802.11n HT20 CH 40 5200MHz		5149.76	57.51	-16.49	74	46.97	34.3	11.29	35.05	362	176	P	H
		5149.76	49.11	-4.89	54	38.57	34.3	11.29	35.05	362	176	A	H
	*	5200	123.69	-	-	113.1	34.3	11.34	35.05	362	176	P	H
	*	5200	114.79	-	-	104.2	34.3	11.34	35.05	362	176	A	H
		5366.76	51.51	-22.49	74	40.6	34.47	11.49	35.05	362	176	P	H
		5350.24	42.28	-11.72	54	31.44	34.4	11.49	35.05	362	176	A	H
		5150	68.17	-5.83	74	57.63	34.3	11.29	35.05	290	270	P	V
		5150	52.22	-1.78	54	41.68	34.3	11.29	35.05	290	270	A	V
	*	5200	122.99	-	-	112.4	34.3	11.34	35.05	290	270	P	V
	*	5200	114.45	-	-	103.86	34.3	11.34	35.05	290	270	A	V
		5363.68	51.06	-22.94	74	40.15	34.47	11.49	35.05	290	270	P	V
		5382.44	41.83	-12.17	54	30.83	34.53	11.53	35.06	290	270	A	V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 48 5240MHz		5085.8	52.1	-21.9	74	41.93	34.03	11.18	35.04	360	176	P	H
		5136.24	43.27	-10.73	54	32.88	34.2	11.24	35.05	360	176	A	H
	*	5240	123.5	-	-	112.8	34.37	11.38	35.05	360	176	P	H
	*	5240	114.6	-	-	103.9	34.37	11.38	35.05	360	176	A	H
		5358.08	51.79	-22.21	74	40.95	34.4	11.49	35.05	360	176	P	H
		5355	42.58	-11.42	54	31.74	34.4	11.49	35.05	360	176	A	H
		5135.72	52.7	-21.3	74	42.31	34.2	11.24	35.05	258	270	P	V
		5149.5	43.03	-10.97	54	32.49	34.3	11.29	35.05	258	270	A	V
	*	5240	122.19	-	-	111.49	34.37	11.38	35.05	258	270	P	V
	*	5240	113.8	-	-	103.1	34.37	11.38	35.05	258	270	A	V
		5409.6	52.89	-21.11	74	41.82	34.6	11.53	35.06	258	270	P	V
		5369.28	42.19	-11.81	54	31.28	34.47	11.49	35.05	258	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	47.34	-20.86	68.2	52.17	37.33	17.42	59.58	100	0	P	H
		15540	50.48	-23.52	74	46.41	40.27	20.32	56.52	100	0	P	H
													H
													H
		10360	47.04	-21.16	68.2	51.87	37.33	17.42	59.58	100	0	P	V
		15540	50.58	-23.42	74	46.51	40.27	20.32	56.52	100	0	P	V
													V
													V
802.11n HT20 CH 40 5200MHz		10400	46.67	-21.53	68.2	51.4	37.4	17.43	59.56	100	0	P	H
		15600	50.05	-23.95	74	46.11	40.2	20.37	56.63	100	0	P	H
													H
													H
		10400	47.57	-20.63	68.2	52.3	37.4	17.43	59.56	100	0	P	V
		15600	56.8	-17.2	74	52.86	40.2	20.37	56.63	100	277	P	V
		15600	46.64	-7.36	54	42.7	40.2	20.37	56.63	100	277	A	V
													V
802.11n HT20 CH 48 5240MHz		10480	47.13	-21.07	68.2	51.77	37.4	17.46	59.5	100	0	P	H
		15720	56.86	-17.14	74	52.82	40.43	20.42	56.81	100	307	P	H
		15720	46.6	-7.4	54	42.56	40.43	20.42	56.81	100	307	A	H
													H
		10480	44.99	-23.21	68.2	49.63	37.4	17.46	59.5	100	0	P	V
		15720	59.63	-14.37	74	55.59	40.43	20.42	56.81	100	215	P	V
		15720	49.89	-4.11	54	45.85	40.43	20.42	56.81	100	215	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5150	59.31	-14.69	74	48.77	34.3	11.29	35.05	386	172	P	H
		5149.76	50.58	-3.42	54	40.04	34.3	11.29	35.05	386	172	A	H
	*	5190	112.79	-	-	102.2	34.3	11.34	35.05	386	172	P	H
	*	5190	104.84	-	-	94.25	34.3	11.34	35.05	386	172	A	H
		5458.6	50.16	-23.84	74	38.96	34.7	11.56	35.06	386	172	P	H
		5442.64	41.06	-12.94	54	29.89	34.67	11.56	35.06	386	172	A	H
		5145.34	57.59	-16.41	74	47.05	34.3	11.29	35.05	247	241	P	V
		5145.34	48.83	-5.17	54	38.29	34.3	11.29	35.05	247	241	A	V
	*	5190	113.16	-	-	102.57	34.3	11.34	35.05	247	241	P	V
	*	5190	105.61	-	-	95.02	34.3	11.34	35.05	247	241	A	V
		5391.12	50.51	-23.49	74	39.51	34.53	11.53	35.06	247	241	P	V
		5413.8	41.45	-12.55	54	30.35	34.63	11.53	35.06	247	241	A	V
802.11n HT40 CH 46 5230MHz		5149.24	56.8	-17.2	74	46.26	34.3	11.29	35.05	378	161	P	H
		5150	49.8	-4.2	54	39.26	34.3	11.29	35.05	378	161	A	H
	*	5230	118.99	-	-	108.29	34.37	11.38	35.05	378	161	P	H
	*	5230	111.06	-	-	100.36	34.37	11.38	35.05	378	161	A	H
		5363.96	52.22	-21.78	74	41.31	34.47	11.49	35.05	378	161	P	H
		5350.52	43.44	-10.56	54	32.6	34.4	11.49	35.05	378	161	A	H
		5145.08	58.27	-15.73	74	47.73	34.3	11.29	35.05	244	241	P	V
		5144.82	50.49	-3.51	54	39.95	34.3	11.29	35.05	244	241	A	V
	*	5230	119.31	-	-	108.61	34.37	11.38	35.05	244	241	P	V
	*	5230	111.72	-	-	101.02	34.37	11.38	35.05	244	241	A	V
		5369	52.22	-21.78	74	41.31	34.47	11.49	35.05	244	241	P	V
		5353.04	43.01	-10.99	54	32.17	34.4	11.49	35.05	244	241	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	46.82	-21.38	68.2	51.6	37.37	17.42	59.57	100	0	P	H
		15570	50.72	-23.28	74	46.71	40.23	20.35	56.57	100	0	P	H
													H
													H
		10380	47.12	-21.08	68.2	51.9	37.37	17.42	59.57	100	0	P	V
		15570	50.17	-23.83	74	46.16	40.23	20.35	56.57	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	47.84	-20.36	68.2	52.51	37.4	17.45	59.52	100	0	P	H
		15690	50.73	-23.27	74	46.71	40.37	20.4	56.75	100	0	P	H
													H
													H
		10460	47.39	-20.81	68.2	52.06	37.4	17.45	59.52	100	0	P	V
		15690	50.36	-23.64	74	46.34	40.37	20.4	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5129.74	57.2	-16.8	74	46.81	34.2	11.24	35.05	381	170	P	H
		5150	49.75	-4.25	54	39.21	34.3	11.29	35.05	381	170	A	H
	*	5210	107.11	-	-	96.49	34.33	11.34	35.05	381	170	P	H
	*	5210	99.69	-	-	89.07	34.33	11.34	35.05	381	170	A	H
		5355.84	50.86	-23.14	74	40.02	34.4	11.49	35.05	381	170	P	H
		5350.24	41.94	-12.06	54	31.1	34.4	11.49	35.05	381	170	A	H
		5144.82	60.48	-13.52	74	49.94	34.3	11.29	35.05	232	242	P	V
		5145.08	51.76	-2.24	54	41.22	34.3	11.29	35.05	232	242	A	V
	*	5210	108.07	-	-	97.45	34.33	11.34	35.05	232	242	P	V
	*	5210	100.43	-	-	89.81	34.33	11.34	35.05	232	242	A	V
		5362.84	50.58	-23.42	74	39.67	34.47	11.49	35.05	232	242	P	V
		5353.04	41.76	-12.24	54	30.92	34.4	11.49	35.05	232	242	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	47.07	-21.13	68.2	51.79	37.4	17.43	59.55	100	0	P	H
		15630	50.35	-23.65	74	46.37	40.27	20.39	56.68	100	0	P	H
													H
													H
		10420	48.59	-19.61	68.2	53.31	37.4	17.43	59.55	100	0	P	V
		15630	50.11	-23.89	74	46.13	40.27	20.39	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30.54	23.82	-16.18	40	28.39	24.09	1.32	29.98	-	-	P	H
		123.42	31.3	-12.2	43.5	41.66	17.59	2.01	29.96	-	-	P	H
		169.05	28.35	-15.15	43.5	40.31	15.67	2.26	29.89	-	-	P	H
		378.4	33.73	-12.27	46	39.53	20.91	3.07	29.78	-	-	P	H
		505.1	34.05	-11.95	46	36.23	23.88	3.74	29.8	100	0	P	H
		944	33.98	-12.02	46	27.48	30.03	5.08	28.61	-	-	P	H
													H
													H
													H
													H
													H
													H
		40.53	28.82	-11.18	40	38.67	18.81	1.33	29.99	-	-	P	V
		49.17	31.9	-8.1	40	45.9	14.66	1.33	29.99	100	0	P	V
		123.15	33.82	-9.68	43.5	44.18	17.59	2.01	29.96	-	-	P	V
		412.7	30.1	-15.9	46	34.32	22.27	3.3	29.79	-	-	P	V
		492.5	34.65	-11.35	46	37.08	23.73	3.64	29.8	-	-	P	V
		953.8	34.39	-11.61	46	27.31	30.54	5.08	28.54	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<TXBF Mode>

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		5147.68	55.93	-18.07	74	45.39	34.3	11.29	35.05	365	172	P	H
		5148.2	50.31	-3.69	54	39.77	34.3	11.29	35.05	365	172	A	H
	*	5180	119.65	-	-	109.11	34.3	11.29	35.05	365	172	P	H
	*	5180	111.99	-	-	101.45	34.3	11.29	35.05	365	172	A	H
													H
													H
		5149.24	58.16	-15.84	74	47.62	34.3	11.29	35.05	234	269	P	V
		5142.22	52.08	-1.92	54	41.54	34.3	11.29	35.05	234	269	A	V
	*	5180	119.68	-	-	109.14	34.3	11.29	35.05	234	269	P	V
	*	5180	112	-	-	101.46	34.3	11.29	35.05	234	269	A	V
													V
													V
802.11ac VHT20 CH 40 5200MHz		5147.94	54.47	-19.53	74	43.93	34.3	11.29	35.05	385	172	P	H
		5149.24	46.57	-7.43	54	36.03	34.3	11.29	35.05	385	172	A	H
	*	5200	120.71	-	-	110.12	34.3	11.34	35.05	385	172	P	H
	*	5200	112.94	-	-	102.35	34.3	11.34	35.05	385	172	A	H
		5359.48	51.68	-22.32	74	40.84	34.4	11.49	35.05	385	172	P	H
		5350	42.99	-11.01	54	32.15	34.4	11.49	35.05	385	172	A	H
		5144.56	55.4	-18.6	74	44.86	34.3	11.29	35.05	238	265	P	V
		5149.5	46.52	-7.48	54	35.98	34.3	11.29	35.05	238	265	A	V
	*	5200	121.17	-	-	110.58	34.3	11.34	35.05	238	265	P	V
	*	5200	113.76	-	-	103.17	34.3	11.34	35.05	238	265	A	V
		5366.76	51.92	-22.08	74	41.01	34.47	11.49	35.05	238	265	P	V
		5424.16	42.9	-11.1	54	31.77	34.63	11.56	35.06	238	265	A	V



WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 48 5240MHz		5141.96	53.3	-20.7	74	42.76	34.3	11.29	35.05	355	174	P	H
		5135.98	44.97	-9.03	54	34.58	34.2	11.24	35.05	355	174	A	H
	*	5240	119.65	-	-	108.95	34.37	11.38	35.05	355	174	P	H
	*	5240	112.15	-	-	101.45	34.37	11.38	35.05	355	174	A	H
		5410.44	52.18	-21.82	74	41.11	34.6	11.53	35.06	355	174	P	H
		5423.88	42.94	-11.06	54	31.81	34.63	11.56	35.06	355	174	A	H
		5139.36	52.62	-21.38	74	42.23	34.2	11.24	35.05	230	232	P	V
		5150	44.31	-9.69	54	33.77	34.3	11.29	35.05	230	232	A	V
	*	5240	121.2	-	-	110.5	34.37	11.38	35.05	230	232	P	V
	*	5240	113.38	-	-	102.68	34.37	11.38	35.05	230	232	A	V
		5448.52	53.38	-20.62	74	42.18	34.7	11.56	35.06	230	232	P	V
		5376	43.17	-10.83	54	32.27	34.47	11.49	35.06	230	232	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		10360	46.64	-21.56	68.2	51.47	37.33	17.42	59.58	100	0	P	H
		15540	50.89	-23.11	74	46.82	40.27	20.32	56.52	100	0	P	H
													H
													H
		10360	46.95	-21.25	68.2	51.78	37.33	17.42	59.58	100	0	P	V
		15540	50.87	-23.13	74	46.8	40.27	20.32	56.52	100	0	P	V
													V
													V
802.11ac VHT20 CH 40 5200MHz		10400	47.42	-20.78	68.2	52.15	37.4	17.43	59.56	100	0	P	H
		15600	49.49	-24.51	74	45.55	40.2	20.37	56.63	100	0	P	H
													H
													H
		10400	47.6	-20.6	68.2	52.33	37.4	17.43	59.56	100	0	P	V
		15600	49.47	-24.53	74	45.53	40.2	20.37	56.63	100	0	P	V
													V
													V
802.11ac VHT20 CH 48 5240MHz		10480	47.57	-20.63	68.2	52.21	37.4	17.46	59.5	100	0	P	H
		15720	50.8	-23.2	74	46.76	40.43	20.42	56.81	100	0	P	H
													H
													H
		10480	47.84	-20.36	68.2	52.48	37.4	17.46	59.5	100	0	P	V
		15720	50.38	-23.62	74	46.34	40.43	20.42	56.81	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5139.36	59.95	-14.05	74	49.56	34.2	11.24	35.05	364	176	P	H
		5149.5	48.81	-5.19	54	38.27	34.3	11.29	35.05	364	176	A	H
	*	5190	113.42	-	-	102.83	34.3	11.34	35.05	364	176	P	H
	*	5190	108.36	-	-	97.77	34.3	11.34	35.05	364	176	A	H
		5435.92	50.32	-23.68	74	39.15	34.67	11.56	35.06	364	176	P	H
		5360.88	41.69	-12.31	54	30.78	34.47	11.49	35.05	364	176	A	H
		5139.62	59.63	-14.37	74	49.14	34.3	11.24	35.05	225	274	P	V
		5150	50.32	-3.68	54	39.78	34.3	11.29	35.05	225	274	A	V
	*	5190	113.15	-	-	102.56	34.3	11.34	35.05	225	274	P	V
	*	5190	107.44	-	-	96.85	34.3	11.34	35.05	225	274	A	V
		5400.36	50.97	-23.03	74	39.9	34.6	11.53	35.06	225	274	P	V
		5412.96	41.97	-12.03	54	30.87	34.63	11.53	35.06	225	274	A	V
802.11ac VHT40 CH 46 5230MHz		5145.34	59.15	-14.85	74	48.61	34.3	11.29	35.05	378	179	P	H
		5145.08	49.94	-4.06	54	39.4	34.3	11.29	35.05	378	179	A	H
	*	5230	121.36	-	-	110.66	34.37	11.38	35.05	378	179	P	H
	*	5230	113.55	-	-	102.85	34.37	11.38	35.05	378	179	A	H
		5365.64	53.04	-20.96	74	42.13	34.47	11.49	35.05	378	179	P	H
		5355.28	43.27	-10.73	54	32.43	34.4	11.49	35.05	378	179	A	H
		5147.42	62.05	-11.95	74	51.51	34.3	11.29	35.05	248	236	P	V
		5133.64	51.91	-2.09	54	41.52	34.2	11.24	35.05	248	236	A	V
	*	5230	121.27	-	-	110.57	34.37	11.38	35.05	248	236	P	V
	*	5230	113.95	-	-	103.25	34.37	11.38	35.05	248	236	A	V
		5355.84	53.34	-20.66	74	42.5	34.4	11.49	35.05	248	236	P	V
		5355.84	43.91	-10.09	54	33.07	34.4	11.49	35.05	248	236	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		10380	47.57	-20.63	68.2	52.35	37.37	17.42	59.57	100	0	P	H
		15570	50.3	-23.7	74	46.29	40.23	20.35	56.57	100	0	P	H
													H
													H
		10380	47.62	-20.58	68.2	52.4	37.37	17.42	59.57	100	0	P	V
		15570	50.82	-23.18	74	46.81	40.23	20.35	56.57	100	0	P	V
													V
													V
802.11ac VHT40 CH 46 5230MHz		10460	47.32	-20.88	68.2	51.99	37.4	17.45	59.52	100	0	P	H
		15690	50.52	-23.48	74	46.5	40.37	20.4	56.75	100	0	P	H
													H
													H
		10460	47.73	-20.47	68.2	52.4	37.4	17.45	59.52	100	0	P	V
		15690	50.95	-23.05	74	46.93	40.37	20.4	56.75	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5121.68	54.52	-19.48	74	44.23	34.1	11.24	35.05	272	172	P	H
		5122.46	46.36	-7.64	54	36.07	34.1	11.24	35.05	272	172	A	H
	*	5210	108.24	-	-	97.62	34.33	11.34	35.05	272	172	P	H
	*	5210	102.29	-	-	91.67	34.33	11.34	35.05	272	172	A	H
		5353.88	51.51	-22.49	74	40.67	34.4	11.49	35.05	272	172	P	H
		5350	42.63	-11.37	54	31.79	34.4	11.49	35.05	272	172	A	H
		5139.62	59.96	-14.04	74	49.47	34.3	11.24	35.05	235	234	P	V
		5133.9	51.81	-2.19	54	41.42	34.2	11.24	35.05	235	234	A	V
	*	5210	111.76	-	-	101.14	34.33	11.34	35.05	235	234	P	V
	*	5210	104.17	-	-	93.55	34.33	11.34	35.05	235	234	A	V
		5351.08	52.42	-21.58	74	41.58	34.4	11.49	35.05	235	234	P	V
		5351.92	43.4	-10.6	54	32.56	34.4	11.49	35.05	235	234	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2+3+4	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	47.67	-20.53	68.2	52.39	37.4	17.43	59.55	100	0	P	H
		15630	50.24	-23.76	74	46.26	40.27	20.39	56.68	100	0	P	H
													H
													H
		10420	47.88	-20.32	68.2	52.6	37.4	17.43	59.55	100	0	P	V
		15630	50.22	-23.78	74	46.24	40.27	20.39	56.68	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 802.11ac VHT20 (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+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 LF		130.71	29.53	-13.97	43.5	40.05	17.42	2.01	29.95	-	-	P	H
		172.02	28.14	-15.36	43.5	40.32	15.45	2.26	29.89	-	-	P	H
		273.27	30.55	-15.45	46	38.46	19.01	2.86	29.78	-	-	P	H
		381.9	34.16	-11.84	46	39.65	21.01	3.28	29.78	-	-	P	H
		455.4	36.11	-9.89	46	39.33	23.08	3.5	29.8	100	0	P	H
		956.6	34.44	-11.56	46	27.19	30.69	5.08	28.52	-	-	P	H
													H
													H
													H
													H
													H
													H
		40.8	31.61	-8.39	40	41.46	18.81	1.33	29.99	100	0	P	V
		48.36	31.02	-8.98	40	44.61	15.07	1.33	29.99	-	-	P	V
		273.27	26.26	-19.74	46	34.17	19.01	2.86	29.78	-	-	P	V
		454.7	33.78	-12.22	46	37.02	23.06	3.5	29.8	-	-	P	V
		499.5	33.94	-12.06	46	36.26	23.84	3.64	29.8	-	-	P	V
		959.4	34.88	-11.12	46	27.45	30.85	5.08	28.5	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2+3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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 :	21~28°C
		Relative Humidity :	51~68%

Note symbol

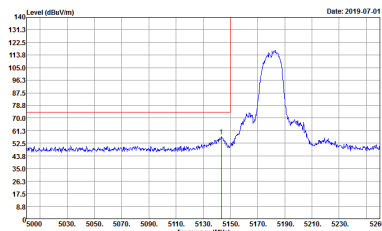
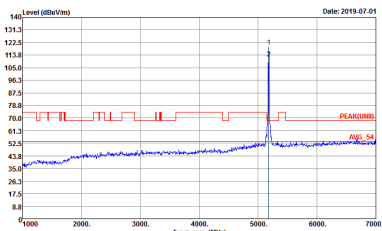
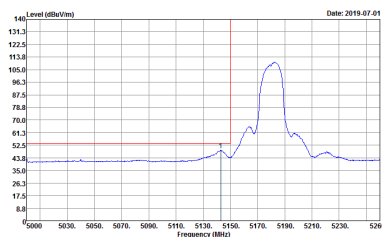
-L	Low channel location
-R	High channel location

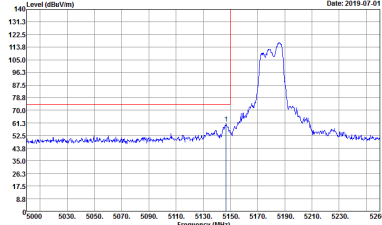
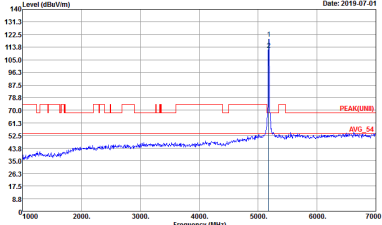
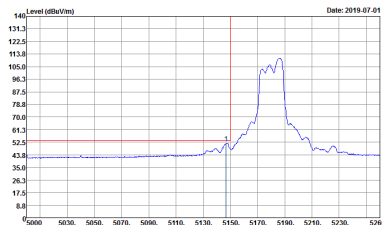


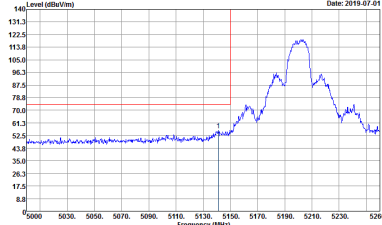
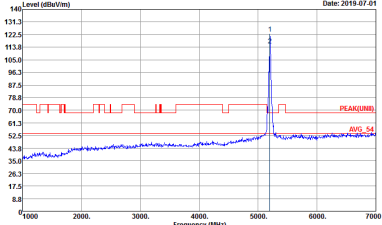
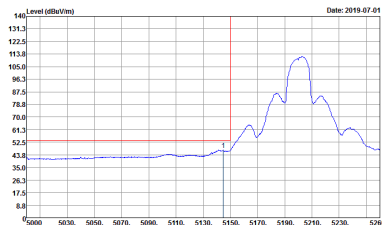
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Band 1 - 5150~5250MHz

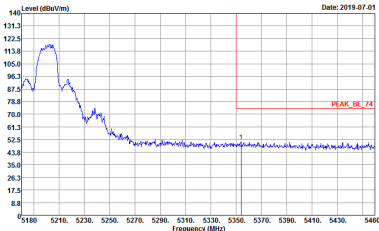
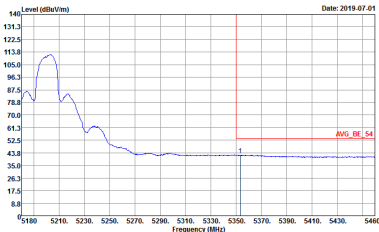
WIFI 802.11a (Band Edge @ 3m)

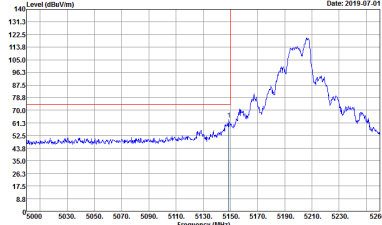
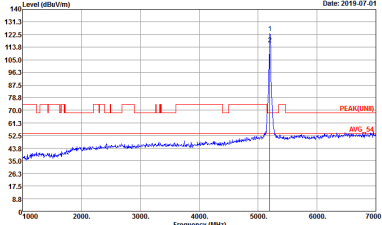
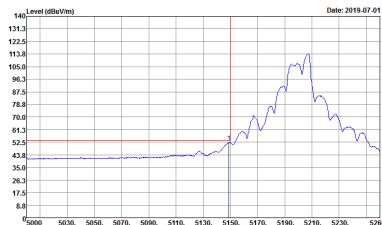
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 1 Setting : 18	 Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 1 Setting : 18
Avg.	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 1 Setting : 18	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Date: 2019-07-01 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 1 Setting : 18	 Date: 2019-07-01 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 1 Setting : 18
Avg.	 Date: 2019-07-01 Site : 03CH07-HY Condition : AVG_BE_SA 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto : Peak Project : 960558 Mode : 1 Setting : 18	Left blank

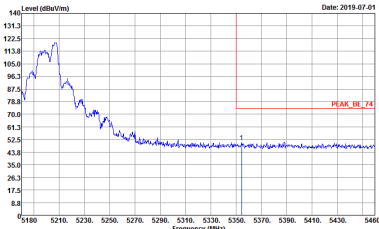
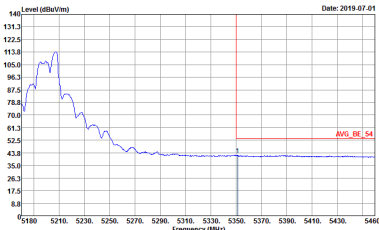
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank

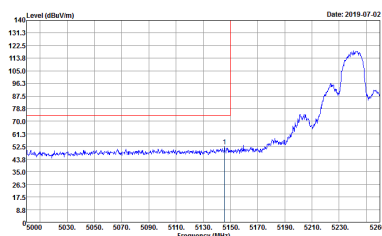
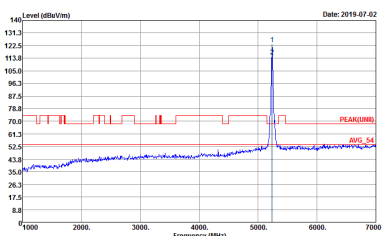
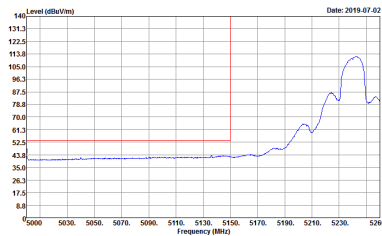


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank

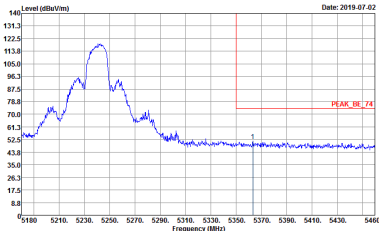
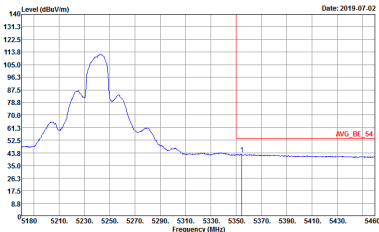
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Date: 2019-07-01 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 2 Setting : 22.5	 Date: 2019-07-01 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 2 Setting : 22.5
Avg.	 Date: 2019-07-01 Site : 03CH07-HY Condition : AVG_BE_SA 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank

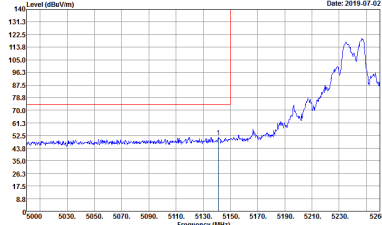
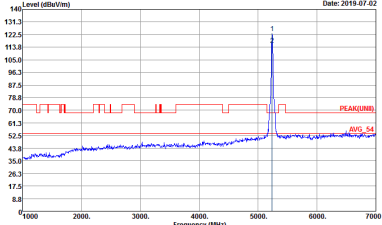
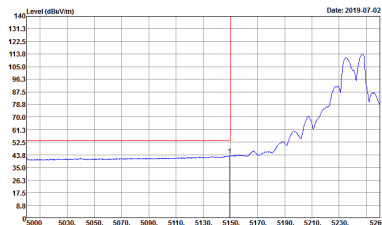


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Left blank

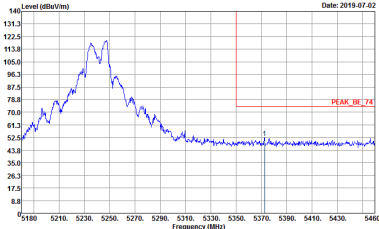
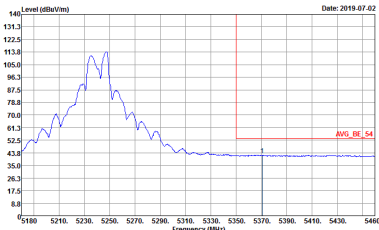
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	Left blank

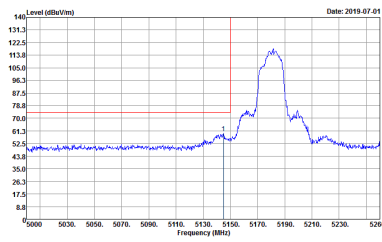
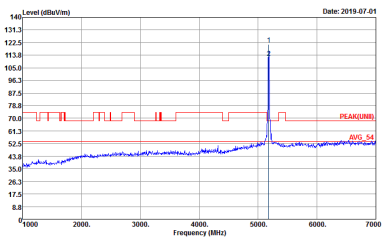
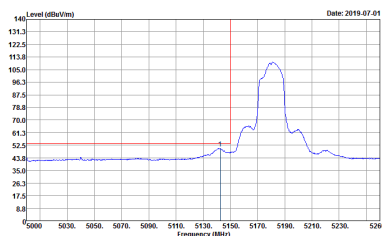
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 3 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 3 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_0007596Z VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak : Project : 960558 Mode : 3 Setting : 22.5	Left blank

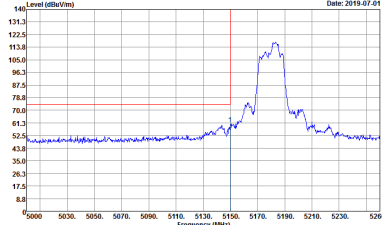
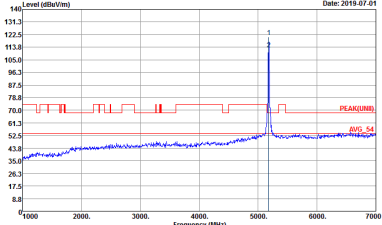
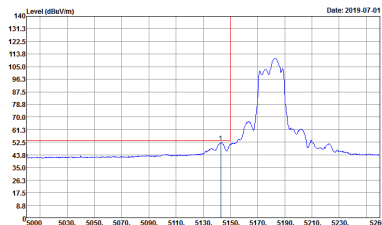


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	Left blank

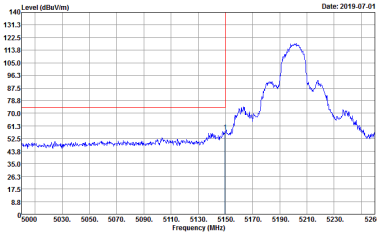
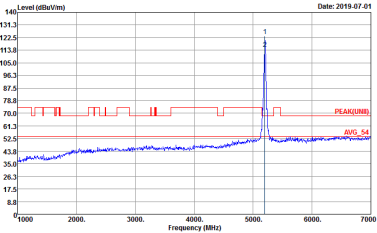
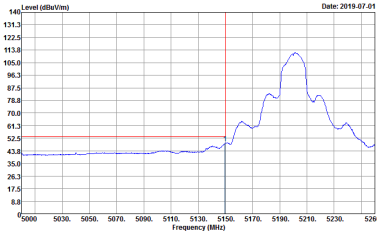


Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

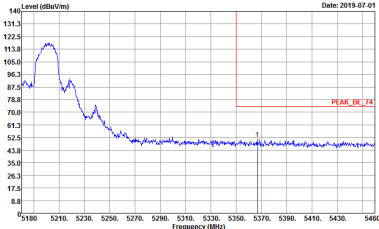
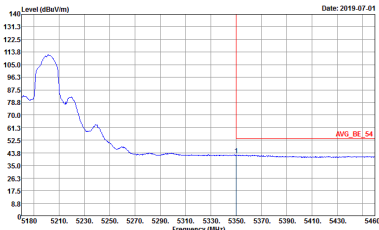
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_78.3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 4 Setting : 19	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 4 Setting : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54.3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 4 Setting : 19	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 4 Setting : 19	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 4 Setting : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak : Project : 960558 Mode : 4 Setting : 19	Left blank

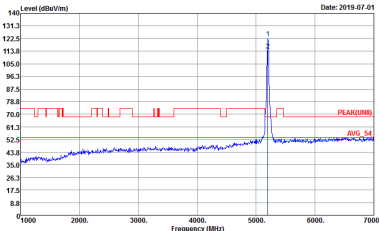
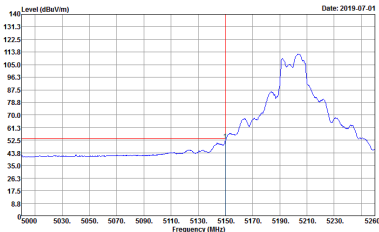


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_SA 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	Left blank

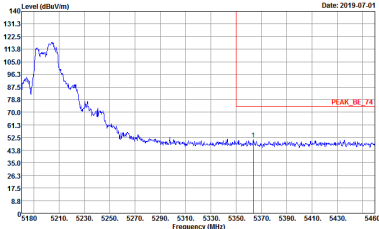
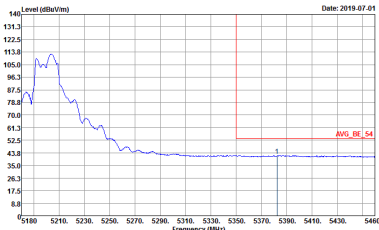


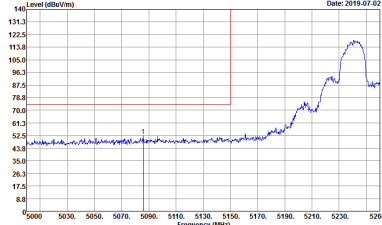
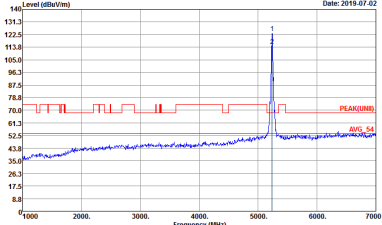
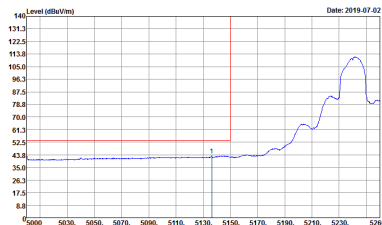
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	Left blank



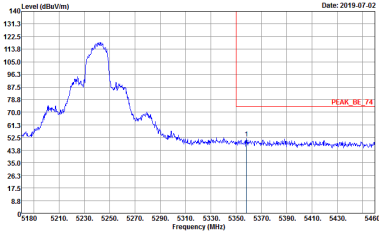
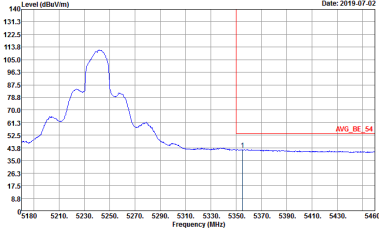
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 5 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 5 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_SA 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak : Project : 960558 Mode : 5 Setting : 22.5	Left blank

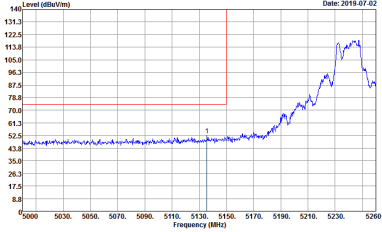
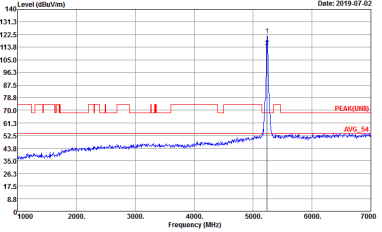
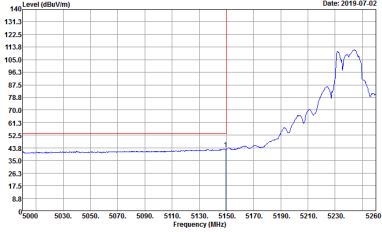


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	Left blank

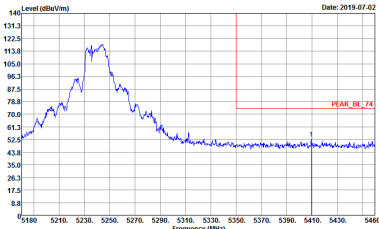
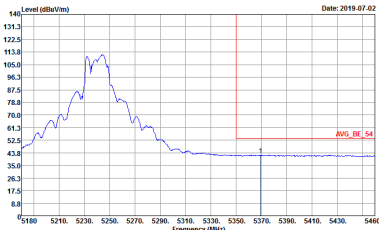
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank

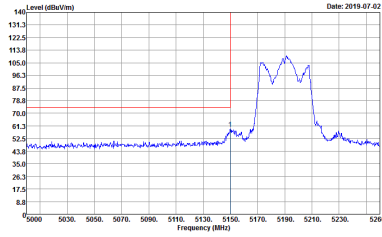
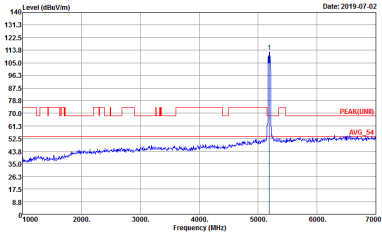
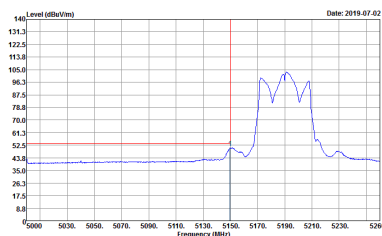
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank



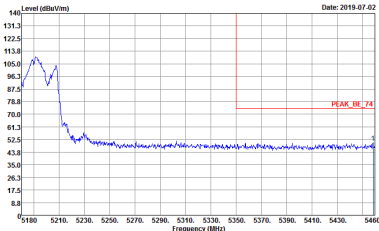
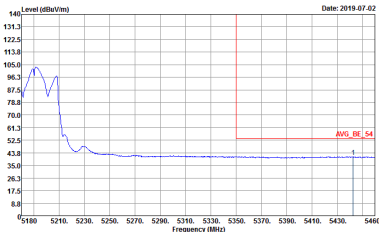
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	Left blank



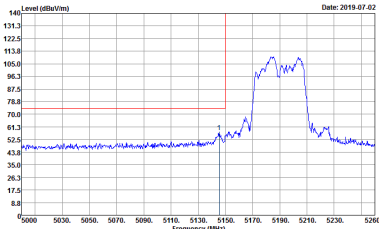
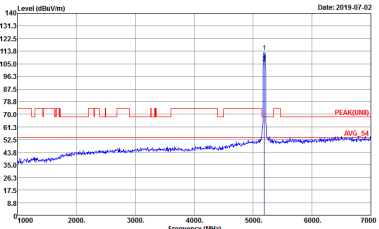
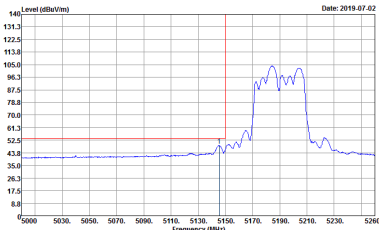
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_78.3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54.3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	Left blank

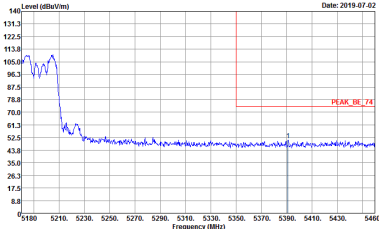
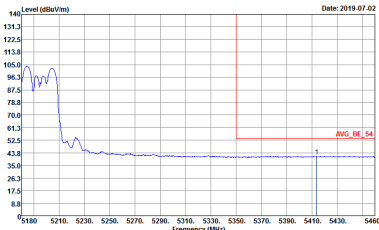


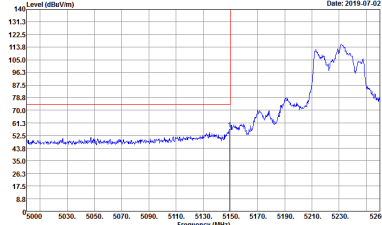
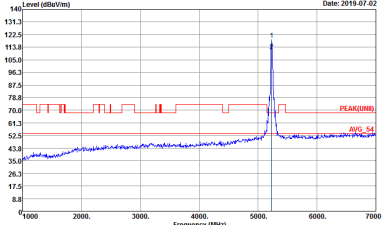
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	Left blank



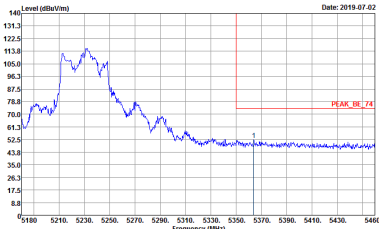
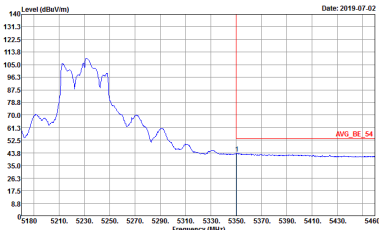
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 7 Setting : 13.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Peak : Project : 960558 Mode : 7 Setting : 13.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Peak : Project : 960558 Mode : 7 Setting : 13.5	Left blank

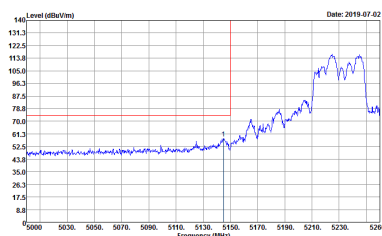
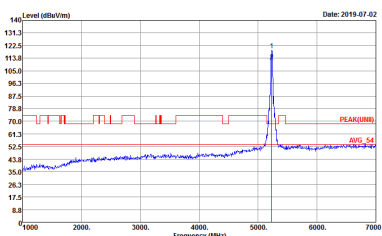
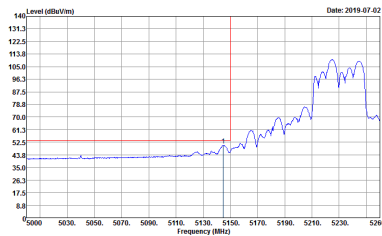


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	Left blank

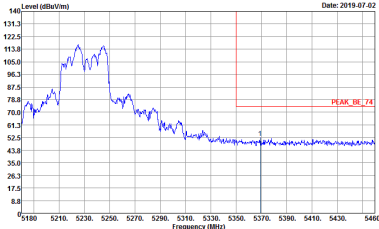
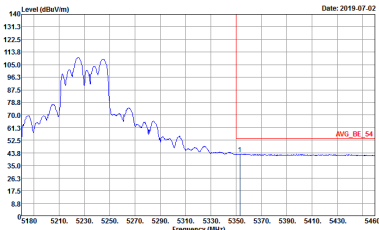
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_SA 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank

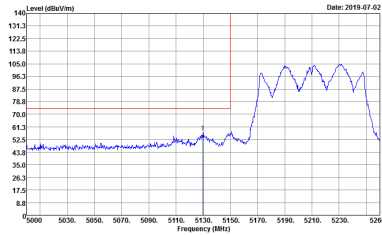
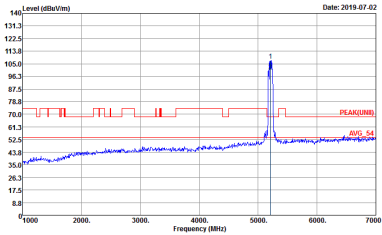
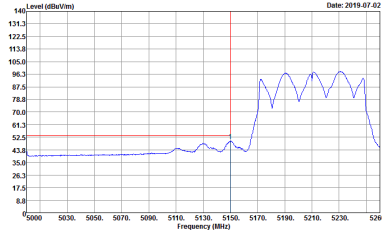
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Date: 2019-07-02 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 8 Setting : 19.5	 Date: 2019-07-02 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto : Peak Project : 960558 Mode : 8 Setting : 19.5
Avg.	 Date: 2019-07-02 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank



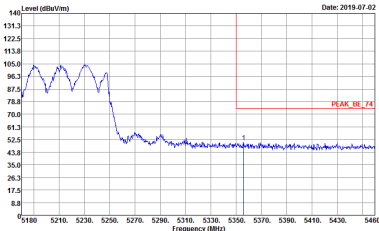
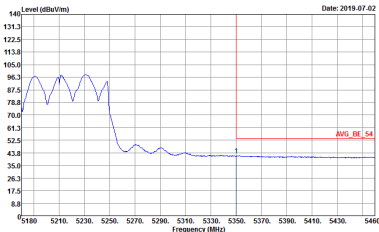
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	Left blank

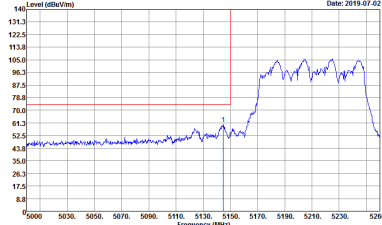
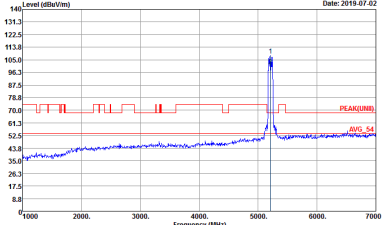


Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

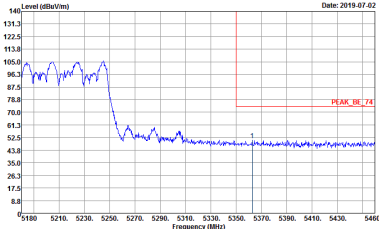
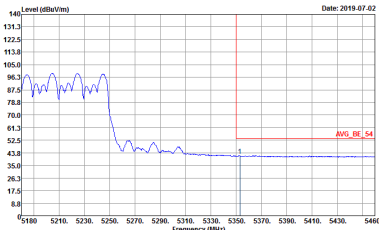
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 960558 Mode : 9 Setting : 12	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 960558 Mode : 9 Setting : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank

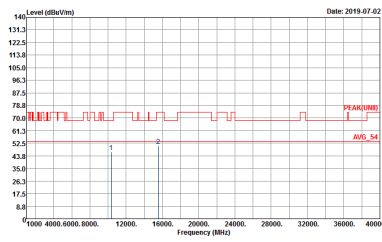
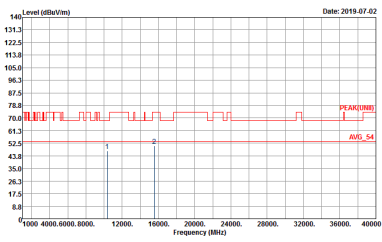
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	Left blank



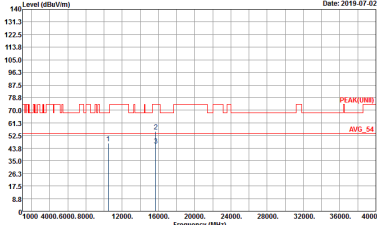
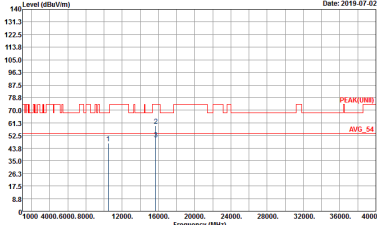
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 1 Setting : 18	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 1 Setting : 18



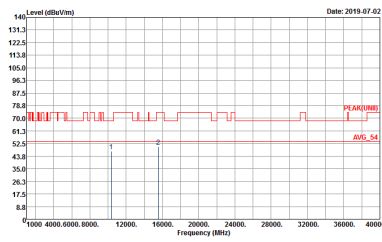
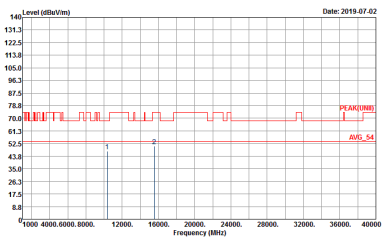
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH40 5200MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5	Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 2 Setting : 22.5



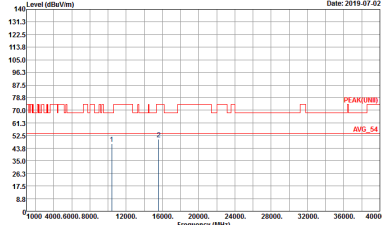
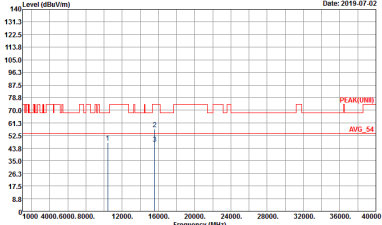
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 3 Setting : 22.5



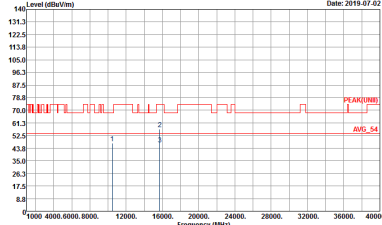
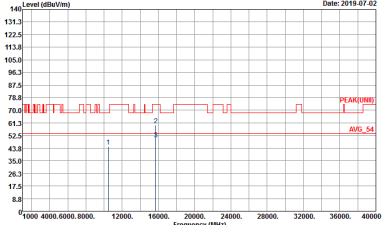
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 4 Setting : 19	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 4 Setting : 19



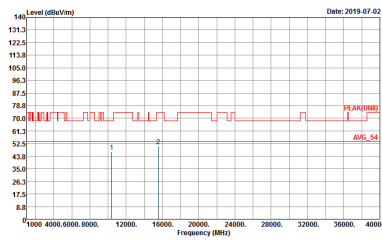
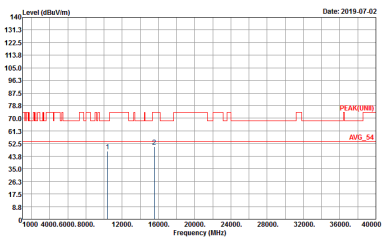
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH40 5200MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 5 Setting : 22.5



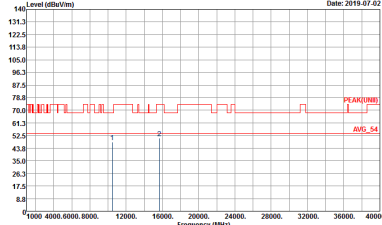
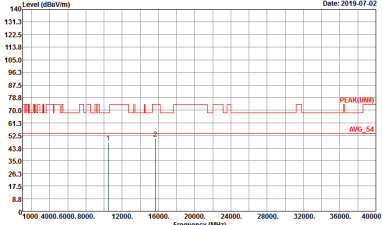
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 6 Setting : 22.5



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

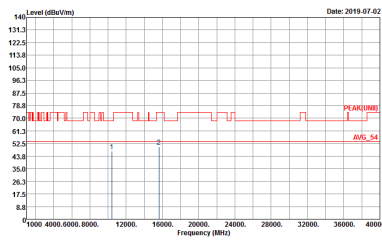
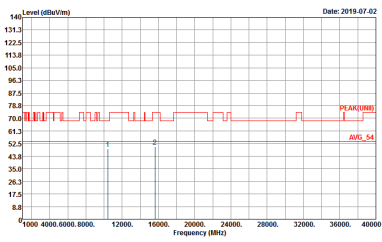
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 7 Setting : 13.5



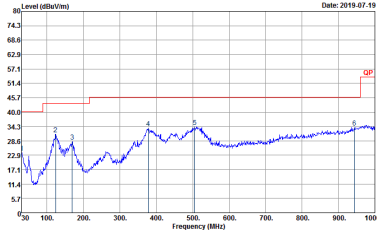
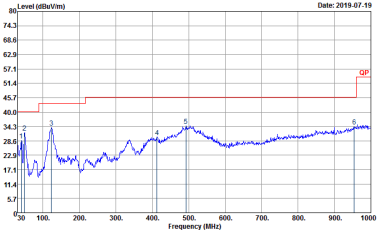
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 8 Setting : 19.5



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 9 Setting : 12	 Site : 03CH07-HY Condition : PEAK(LNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 9 Setting : 12

Emission below 1GHz
5GHz WIFI 802.11a (LF)

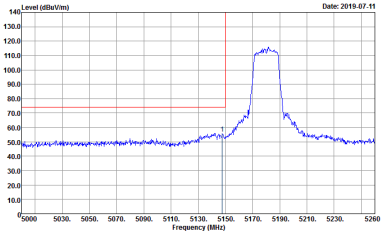
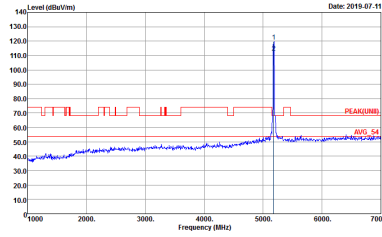
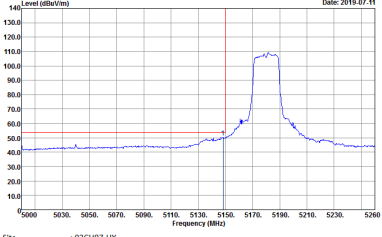
WIFI	5GHz WIFI	
ANT	802.11a LF	
1+2+3+4	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 960558 Mode : 58	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 960558 Mode : 58



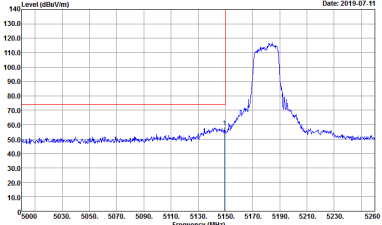
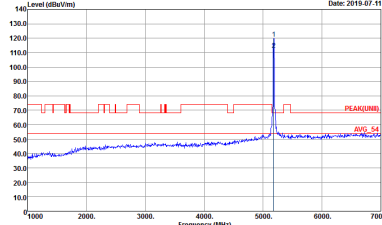
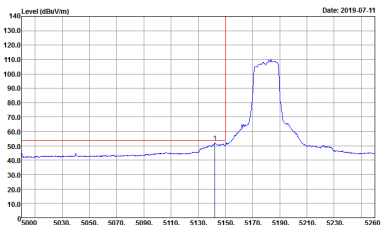
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Band 1 - 5150~5250MHz

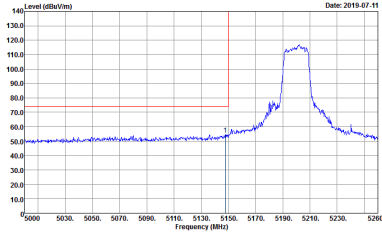
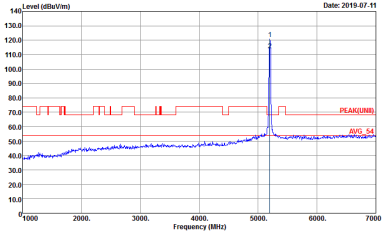
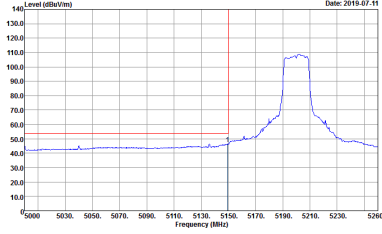
WIFI 802.11ac VHT20 (Band Edge @ 3m)

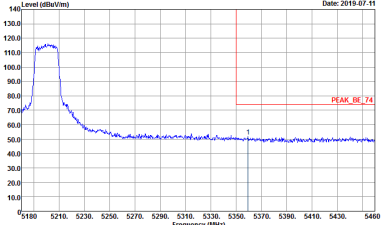
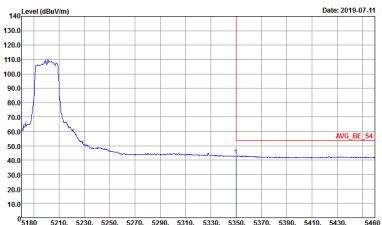
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 10 Setting : 24	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 10 Setting : 24
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 10 Setting : 24	Left blank



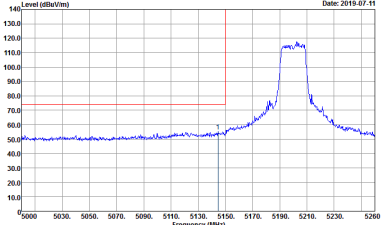
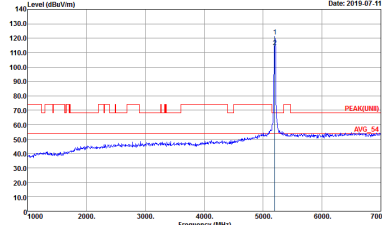
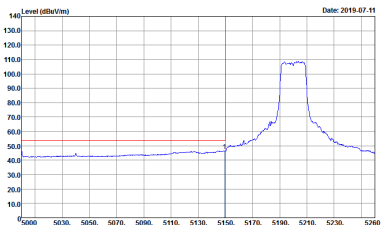
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 10 Setting : 24	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 10 Setting : 24
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 10 Setting : 24	Left blank



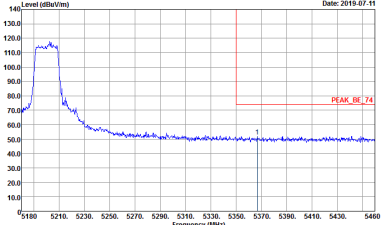
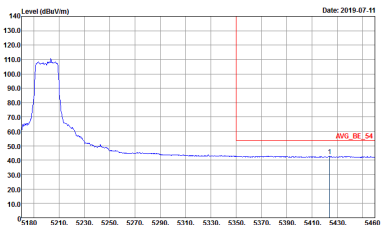
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank

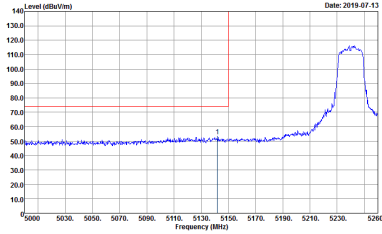
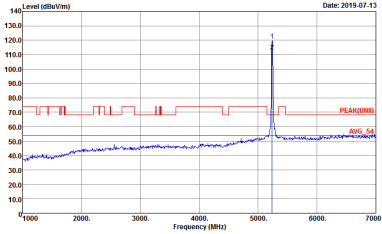
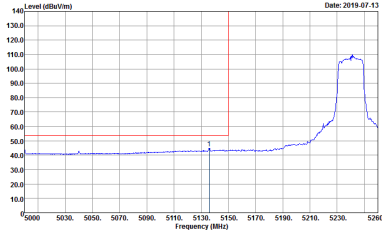


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank

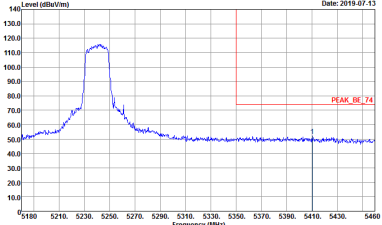
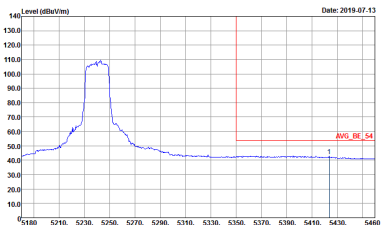


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 960558 Mode : 12 Setting : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 960558 Mode : 12 Setting : 25
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 960558 Mode : 12 Setting : 25	Left blank

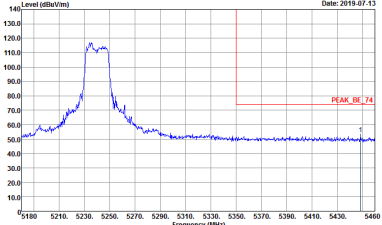
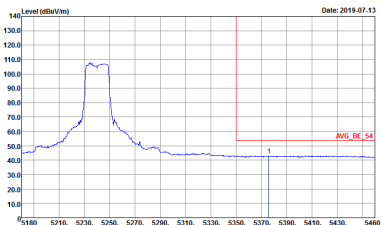


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 12 Setting : 25	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 12 Setting : 25	Left blank

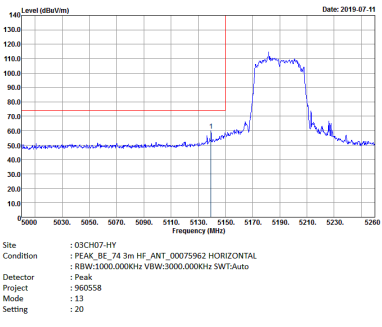
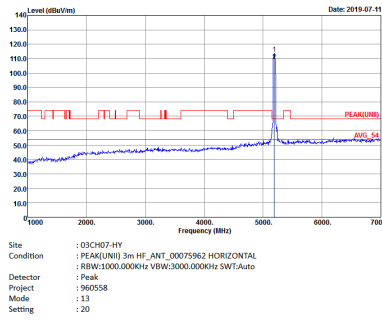
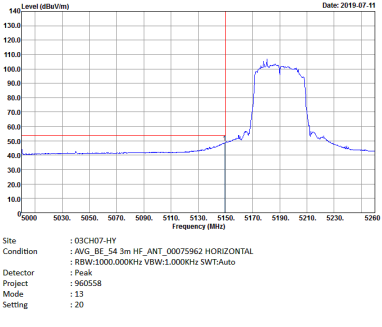


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 25	Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 25
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 25	Left blank

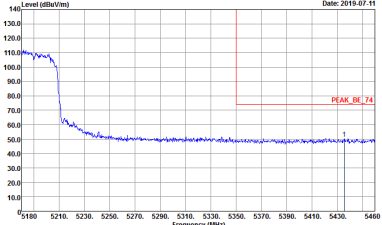
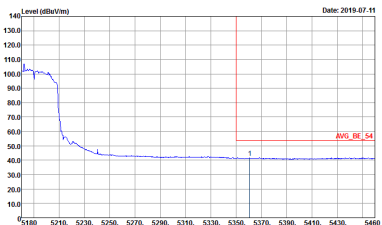


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 12 Setting : 25	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 12 Setting : 25	Left blank

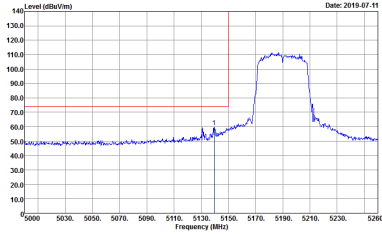
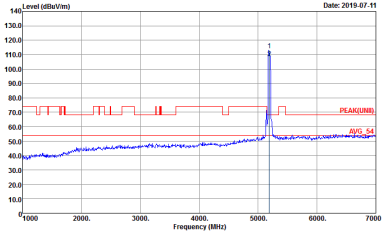
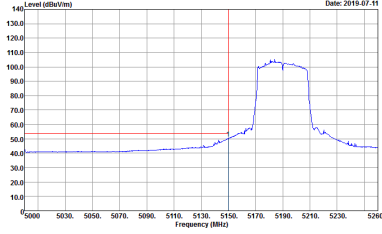
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

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

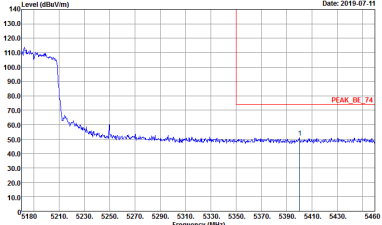
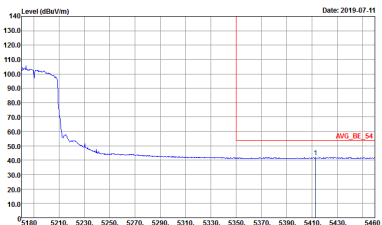


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	Left blank

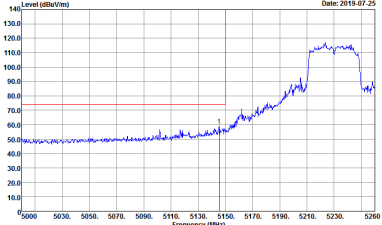
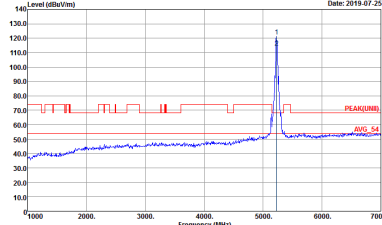
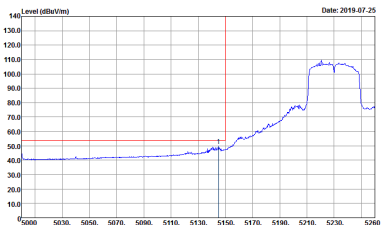


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	Left blank

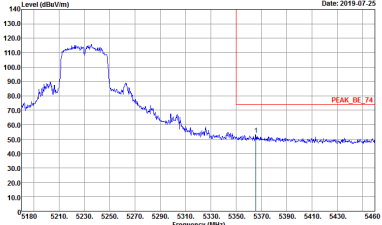
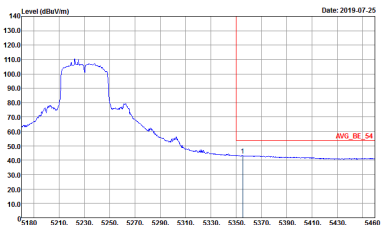


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	Left blank

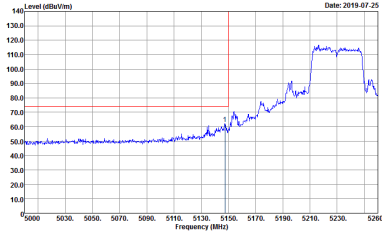
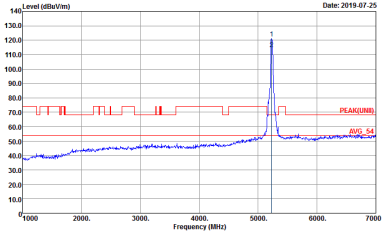
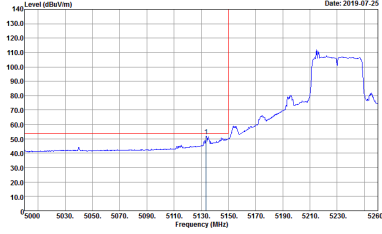


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank

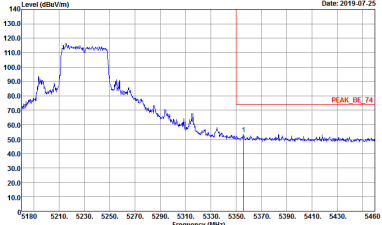


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank

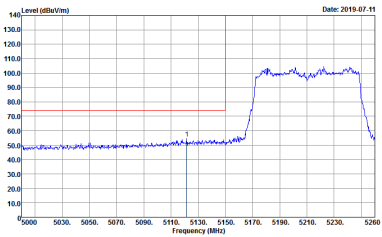
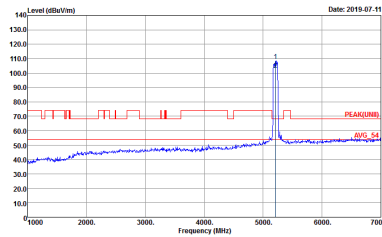
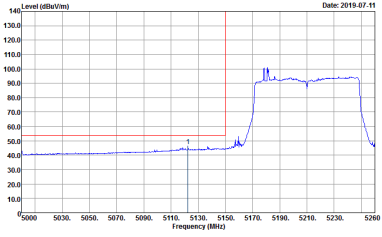


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank

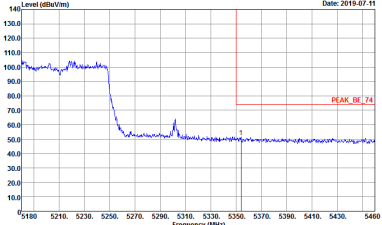
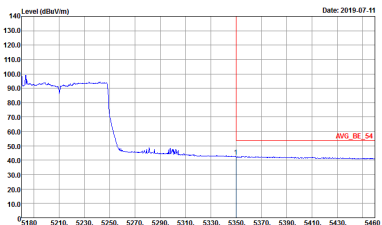


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	Left blank

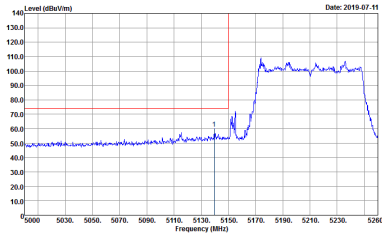
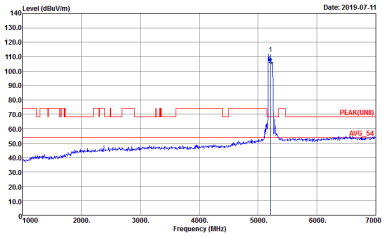
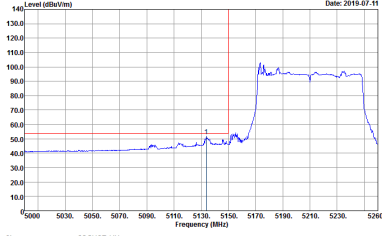
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960558 Mode : 15 Setting : 17	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960558 Mode : 15 Setting : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank

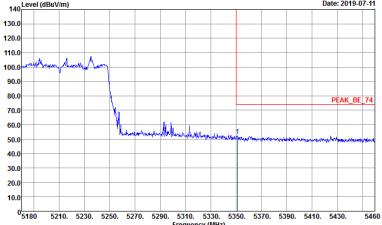
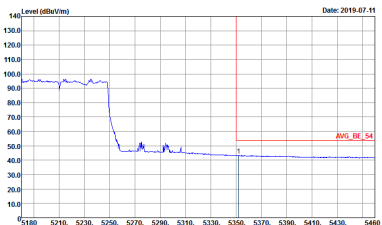


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2+3+4	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank

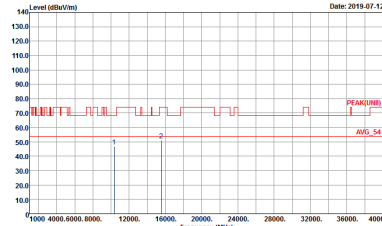
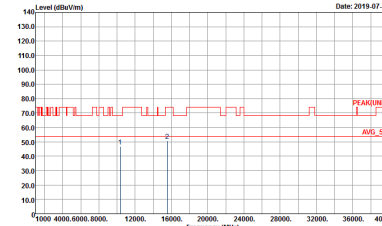


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank

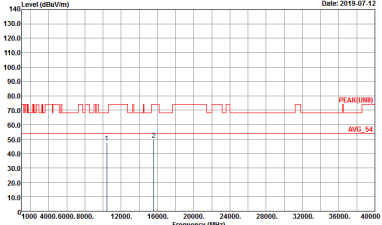
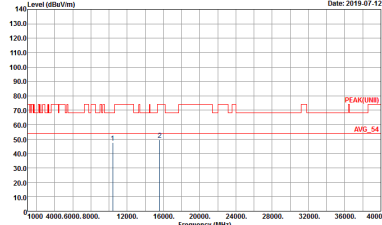


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2+3+4	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	Left blank

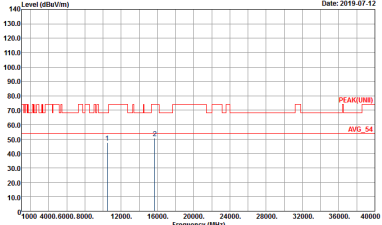
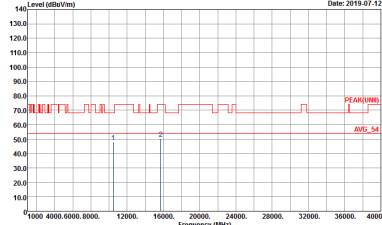
Band 1 - 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 1960558 Mode : 10 Setting : 24	 Site : 03CH07-HY Condition : PEAK(100) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 1960558 Mode : 10 Setting : 24



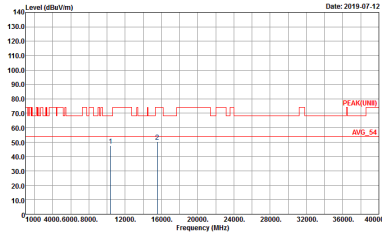
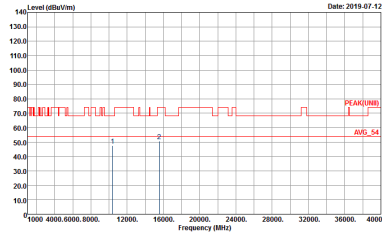
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 11 Setting : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 11 Setting : 25



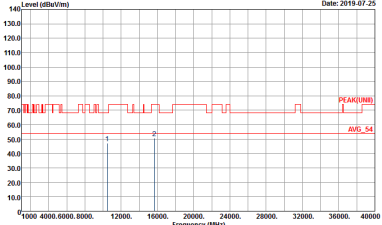
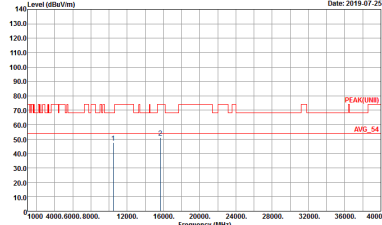
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 12 Setting : 25	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 12 Setting : 25



Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

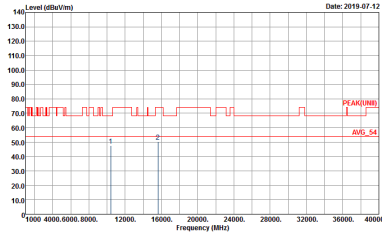
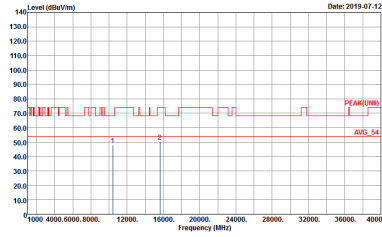
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 13 Setting : 20	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 13 Setting : 20



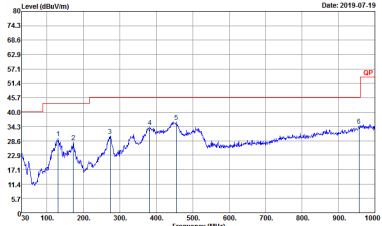
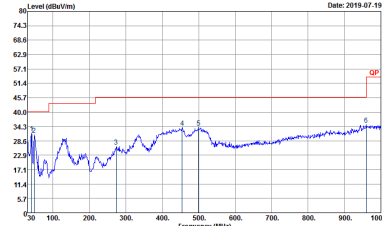
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 14 Setting : 26	 Site : 03CH07-HY Condition : PEAK(UHB) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 14 Setting : 26



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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2+3+4	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 960558 Mode : 15 Setting : 17	 Site : 03CH07-HY Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 960558 Mode : 15 Setting : 17

Emission below 1GHz
5GHz WIFI 802.11ac VHT20 (LF)

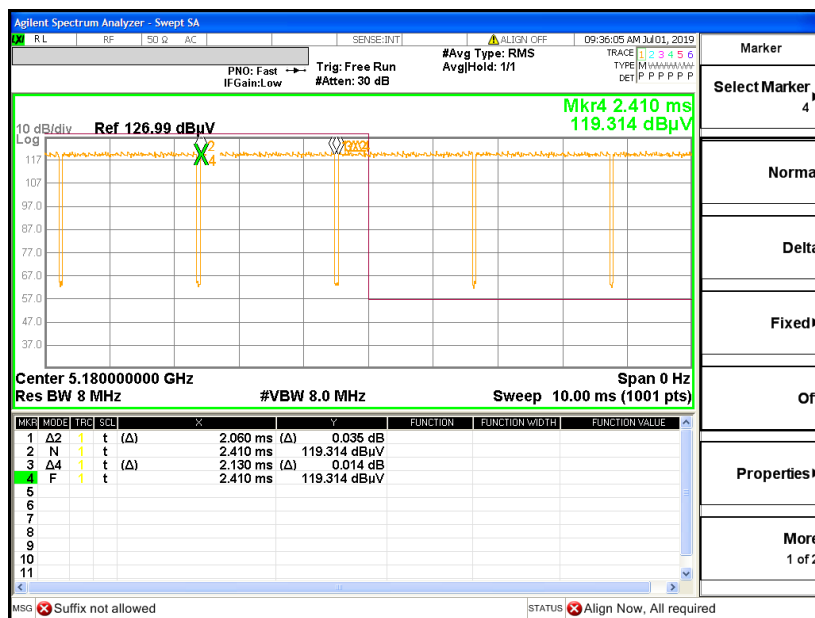
WIFI	5GHz WIFI	
ANT	802.11ac VHT20 LF	
1+2+3+4	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 960558 Mode : 75	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 960558 Mode : 75

Appendix E. Duty Cycle Plots

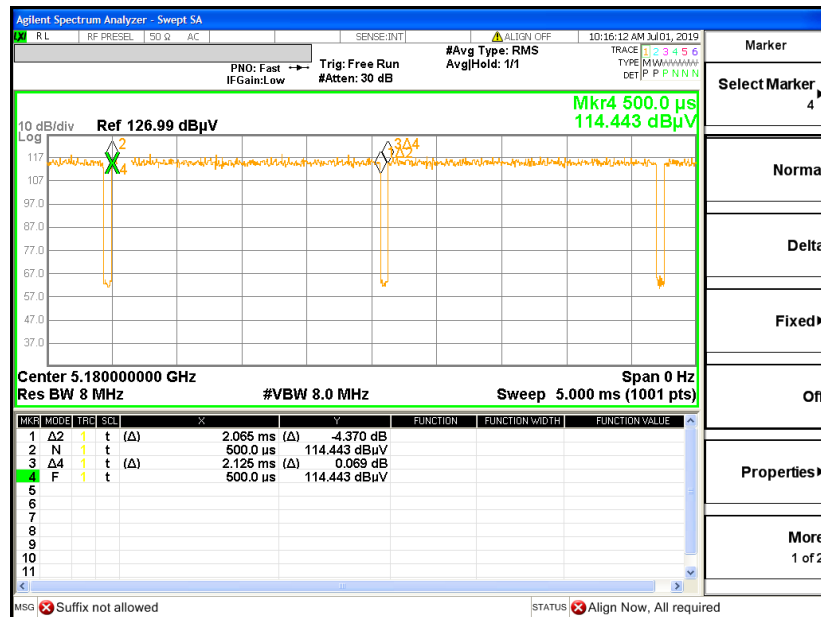
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Antenna	Band	T(us)	1/T(kHz)	VBW Setting
1+2+3+4	802.11a	2060	0.49	1kHz
1+2+3+4	5GHz 802.11n HT20	2065	0.48	1kHz
1+2+3+4	5GHz 802.11n HT40	2430	0.412	1kHz
1+2+3+4	5GHz 802.11ac VHT80	1149	0.87	1kHz

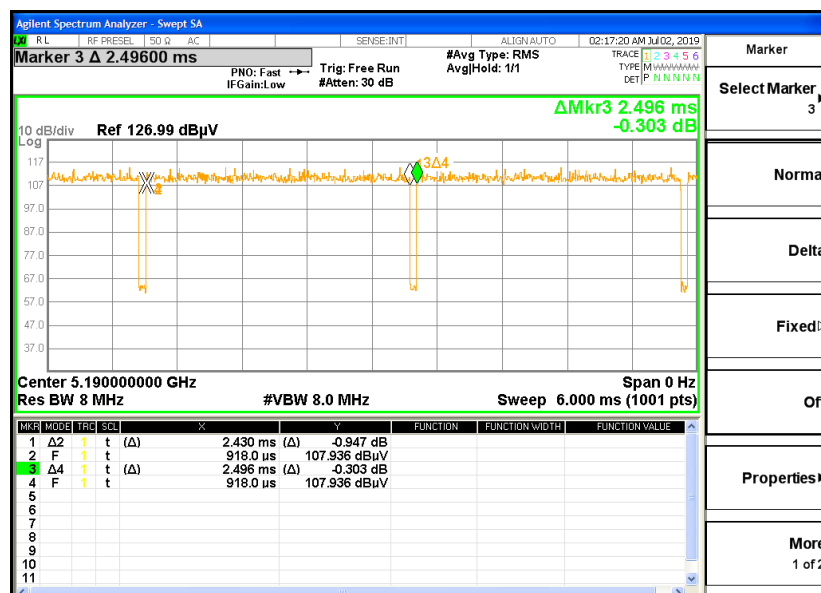
802.11a



802.11n HT20

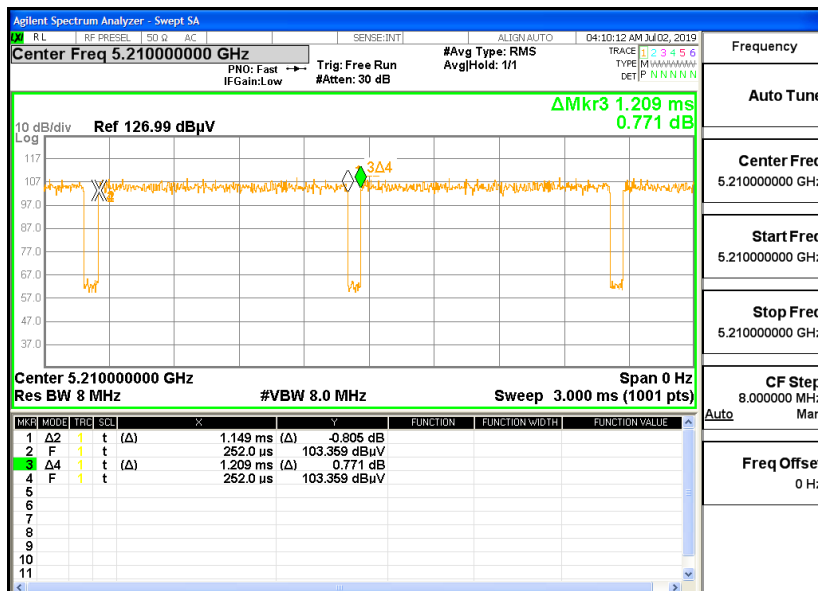


802.11n HT40



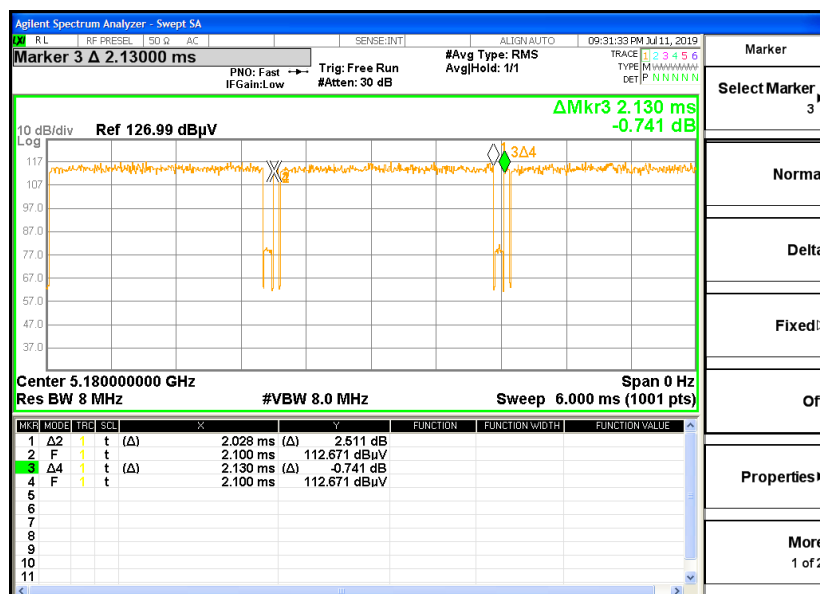


802.11ac VHT80

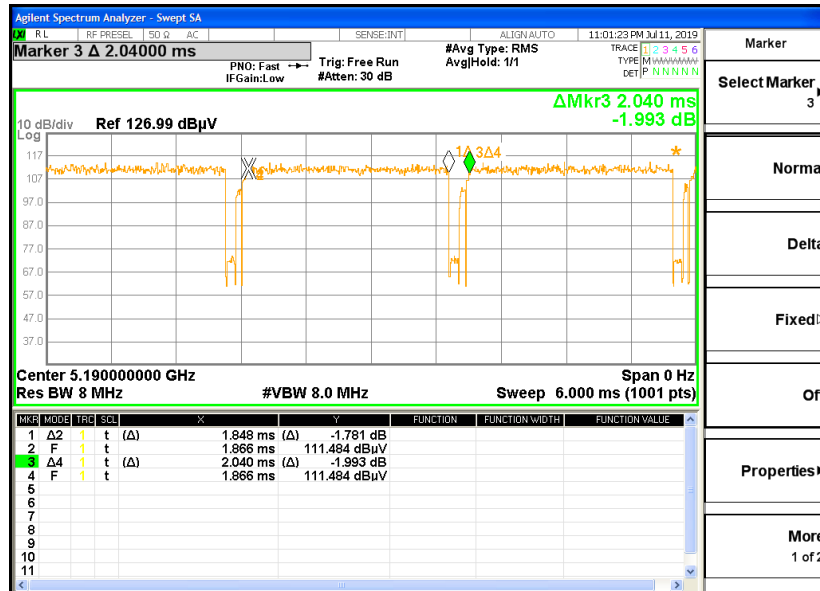


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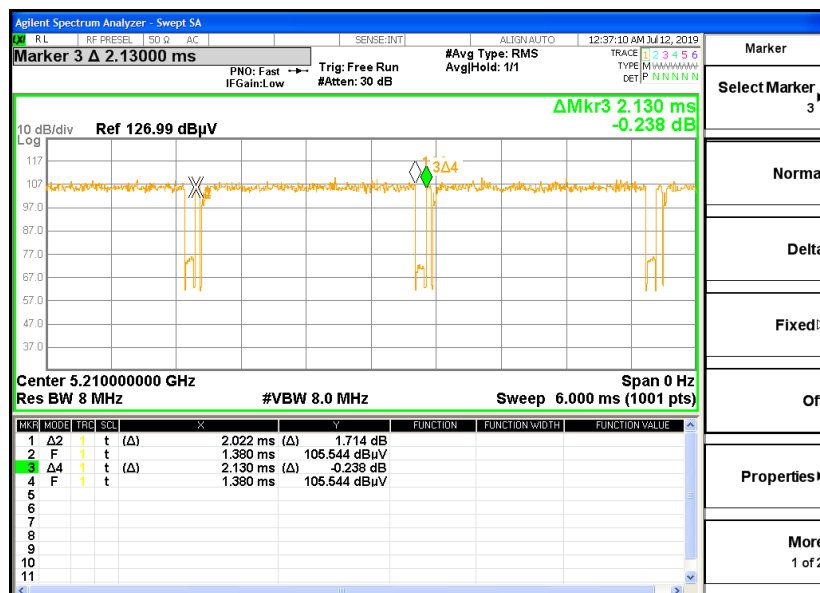
Antenna	Band	T(us)	1/T(kHz)	VBW Setting
1+2+3+4	5GHz 802.11ac VHT20	2028	0.49	1kHz
1+2+3+4	5GHz 802.11ac VHT40	1848	0.54	1kHz
1+2+3+4	5GHz 802.11ac VHT80	2022	0.49	1kHz

802.11ac VHT20


802.11ac VHT40



802.11ac VHT80



—THE END—