FCC RADIO TEST REPORT

FCC ID	:	**IHDT56ZB2**
Equipment	:	**Mobile Cellular Phone**
Brand Name	:	**Motorola**
Model Name	:	**XT2071-4**
Applicant	:	**Motorola Mobility, LLC** **222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States**
Manufacturer	:	**Motorola Mobility, LLC** **222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 07, 2020 and testing was started from May 07, 2020 and completed on Jul. 08, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR051232E	01	Initial issue of report	Jul. 29, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.02 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 17.61 dB at 0.542 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

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

Reviewed by: Wii Chang

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
Equipment	Mobile Cellular Phone	
Brand Name	Motorola	
Model Name	XT2071-4	
FCC ID	IHDT56ZB2	
IMEI Code	**Conducted :**	IMEI 1: 351648110011179 IMEI 2: 351648110011187
	Conduction :	IMEI 1: 351648110009132 IMEI 2: 351648110009140
	Radiation :	IMEI 1: 351648110009058 IMEI 2: 351648110009066
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE	
HW Version	DVT2	
EUT Stage	Identical Prototype	

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

Accessory List	
AC Adapter 1 (US)	Brand Name : Motorola
	Model Name : SC-51
	Manufacturer : Chenyang
AC Adapter 1 (EU)	Brand Name : Motorola
	Model Name : SC-52
	Manufacturer : Chenyang
AC Adapter 1 (UK)	Brand Name : Motorola
	Model Name : SC-53UK
	Manufacturer : Chenyang
AC Adapter 1 (AR)	Brand Name : Motorola
	Model Name : SC-56
	Manufacturer : Chenyang
AC Adapter 1 (AU)	Brand Name : Motorola
	Model Name : SC-55AU
	Manufacturer : Chenyang
AC Adapter 2 (US)	Brand Name : Motorola
	Model Name : SC-51
	Manufacturer : Acbel
AC Adapter 2 (EU)	Brand Name : Motorola
	Model Name : SC-52
	Manufacturer : Acbel
AC Adapter 2 (AR)	Brand Name : Motorola
	Model Name : SC-56
	Manufacturer : Acbel
AC Adapter 3 (IN)	Brand Name : Motorola
	Model Name : SC-54
	Manufacturer : Salom
Battery 1	Brand Name : Motorola
	Model Name : LS30
	Manufacturer : ATL
Battery 2	Brand Name : Motorola
	Model Name : LS40
	Manufacturer : ATL
Standard 3.5mm Headset 1	Brand Name : Motorola
	Model Name : SH38C37773
	Manufacturer : Lianyun
Standard 3.5mm Headset 2	Brand Name : Motorola
	Model Name : SH38C44959
	Manufacturer : Lianyun
USB-C to 3.5mm headset adaptor 1	Brand Name : Motorola
	Model Name : SC18C27844
USB-C to 3.5mm headset adaptor 2	Brand Name : Motorola
	Model Name : SC18C27845
USB Cable 1	Brand Name : Motorola
	Model Name : SC18C24367
	Manufacturer : Saibao
USB Cable 2	Brand Name : Motorola
	Model Name : SC18C24368
	Manufacturer : Luxshare

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna <CDD Mode>	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 4 + 3>** 802.11a : 19.86 dBm / 0.0968 W 802.11n HT20 : 20.16 dBm / 0.1038 W 802.11n HT40 : 22.56 dBm / 0.1803 W 802.11ac VHT20: 20.11 dBm / 0.1026 W 802.11ac VHT40: 22.41 dBm / 0.1742 W 802.11ac VHT80: 15.26 dBm / 0.0336 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 4 + 3>** 802.11a : 19.81 dBm / 0.0957 W 802.11n HT20 : 20.11 dBm / 0.1026 W 802.11n HT40 : 22.52 dBm / 0.1786 W 802.11ac VHT20: 20.06 dBm / 0.1014 W 802.11ac VHT40: 22.37 dBm / 0.1726 W 802.11ac VHT80: 17.36 dBm / 0.0545 W **<5500 MHz ~ 5700 MHz>** **MIMO <Ant. 4 + 3>** 802.11a : 19.90 dBm / 0.0977 W 802.11n HT20 : 20.06 dBm / 0.1014 W 802.11n HT40 : 22.57 dBm / 0.1807 W 802.11ac VHT20: 20.01 dBm / 0.1002 W 802.11ac VHT40: 22.43 dBm / 0.1750 W 802.11ac VHT80: 21.68 dBm / 0.1472 W
Maximum Output Power to Antenna <TXBF Mode>	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 4 + 3>** 802.11ac VHT20: 18.56 dBm / 0.0718 W 802.11ac VHT40: 17.87 dBm / 0.0612 W 802.11ac VHT80: 12.98 dBm / 0.0199 W
99% Occupied Bandwidth <CDD Mode>	**MIMO <Ant. 4>** 802.11a : 16.88 MHz 802.11ac HT20 : 17.98 MHz 802.11ac HT40 : 36.66 MHz 802.11ac VHT80 : 76.96 MHz **MIMO <Ant. 3>** 802.11a : 16.98 MHz 802.11ac HT20 : 18.18 MHz 802.11ac HT40 : 37.56 MHz 802.11ac VHT80 : 77.20 MHz

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>99% Occupied Bandwidth
<TXBF Mode></td><td>MIMO <Ant. 4>
802.11ac VHT20 : 17.93 MHz
802.11ac VHT40 : 36.96 MHz
802.11ac VHT80 : 75.52 MHz
MIMO <Ant. 3>
802.11ac VHT20 : 17.88 MHz
802.11ac VHT40 : 37.16 MHz
802.11ac VHT80 : 76.12 MHz</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Type / Gain</td><td><5180 MHz ~ 5240 MHz>
Ant. 4 : slot Antenna with gain 0.10 dBi
Ant. 3 : ILA Antenna with gain 0.30 dBi
<5260 MHz ~ 5320 MHz>
Ant. 4 : slot Antenna with gain -1.15 dBi
Ant. 3 : ILA Antenna with gain 0.40 dBi
<5500 MHz ~ 5700 MHz >
Ant. 4 : slot Antenna with gain 0.05 dBi
Ant. 3 : ILA Antenna with gain 0.80 dBi</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><td></td><td>Ant. 4</td><td>Ant. 3</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr><tr><td>802.11 ac TXBF</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

Note: MIMO Ant. 4+3 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 3.

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH15-HY

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

FCC designation No.: TW1190 and TW0007

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.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory (Adapter or Earphone). The worst cases (Open Mode: Z plane with Adapter for CDD Mode and Z plane with Notebook for TXBF Mode) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

Note:

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

2.2 Test Mode

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

CDD Mode

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

TXBF Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : GSM 1900 Idle + WLAN (5GHz) Link + Bluetooth Link + USB Cable 1 (Charging from Adapter 1) + SIM 2
Remark: For Radiated Test Cases, the tests were performed with AC Adapter 1 (US) and USB Cable 1.	

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

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

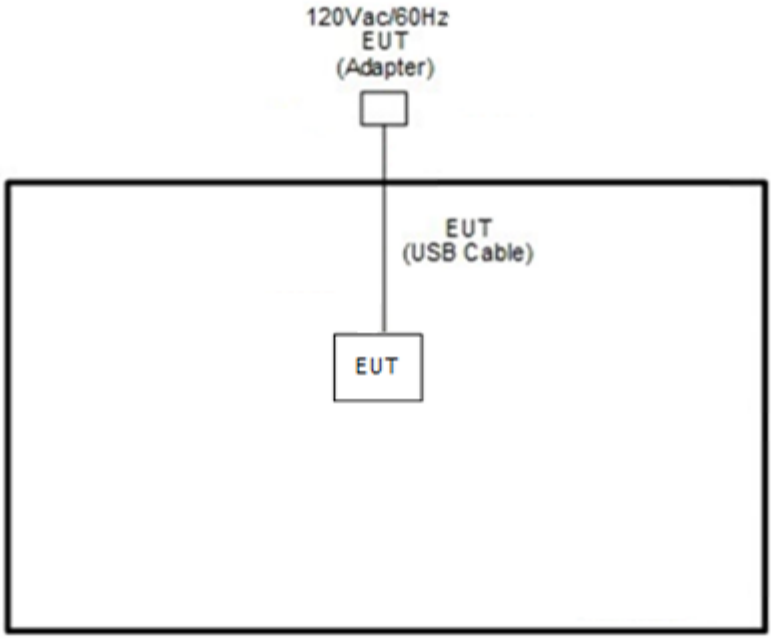
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

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

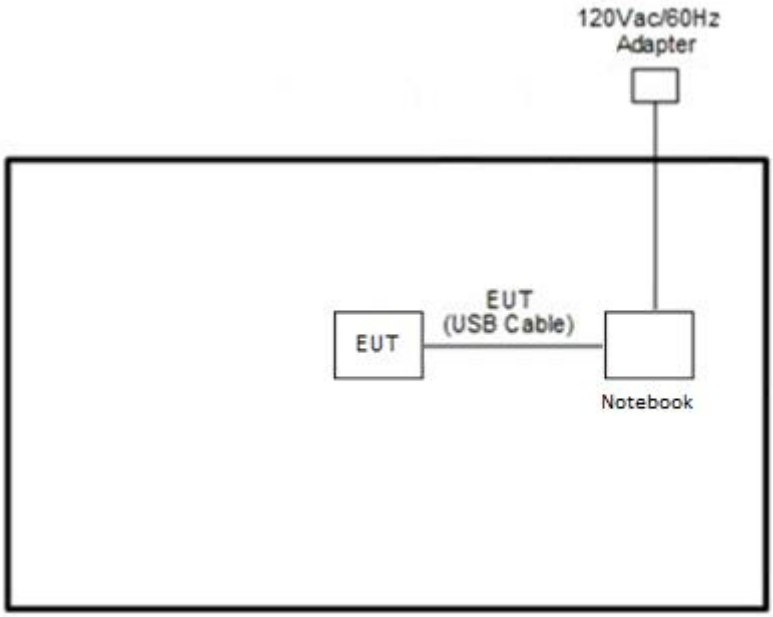
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

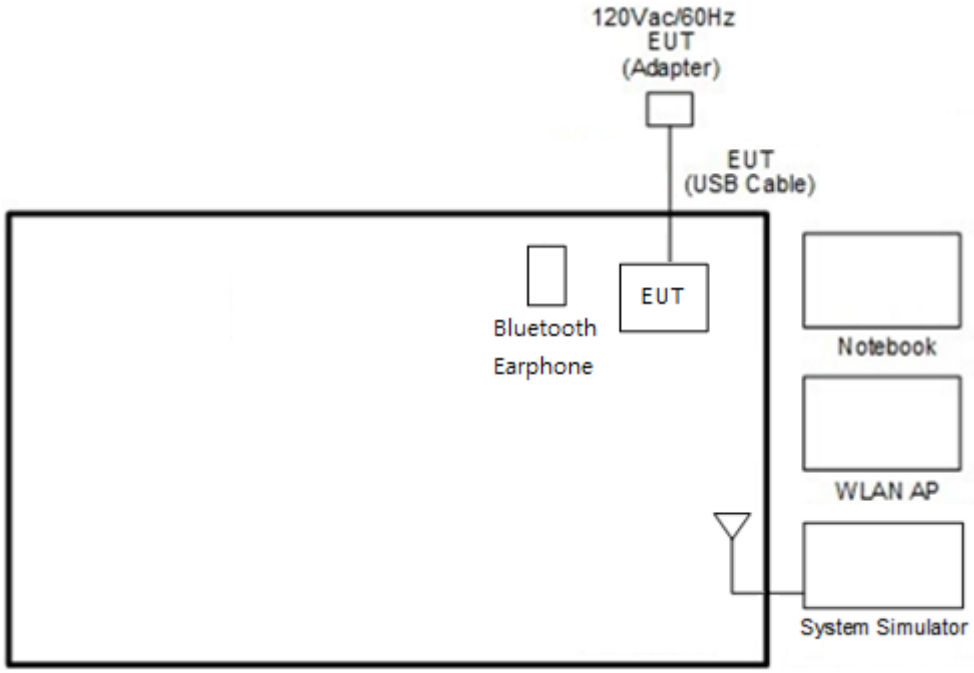
<CDD Mode>



<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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P： Unshielded, 1.2m DC O/P： Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT V4.0.00156.0” 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 another EUT by power under the normal operation. The “QRCT V4.0.00142.0” 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.

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

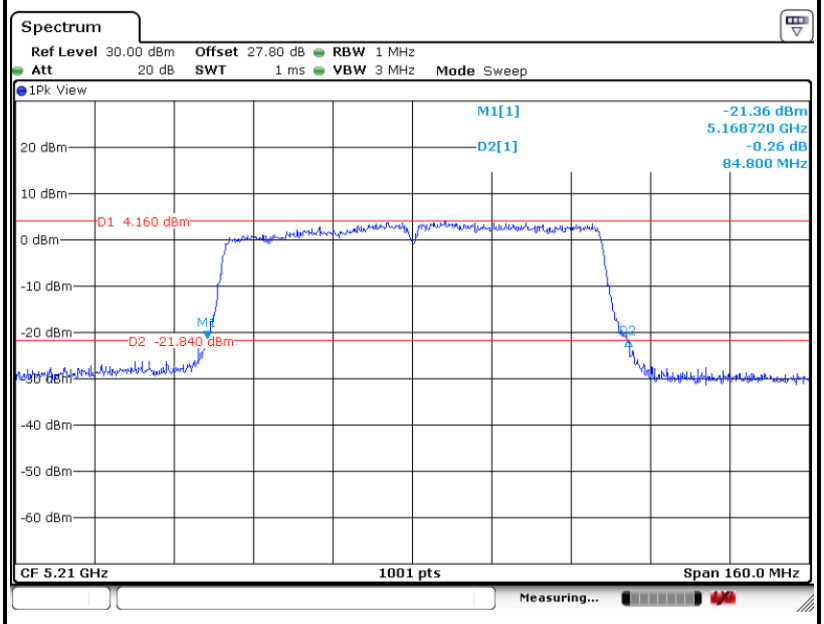
3.1.4 Test Setup

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

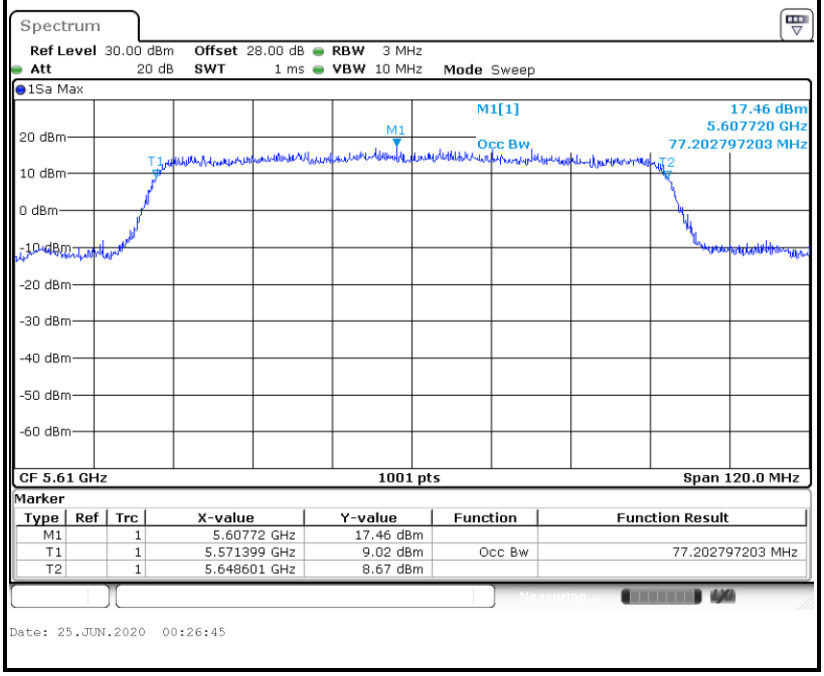
Please refer to Appendix A.

<CDD Mode>

Maximum 26dB Bandwidth



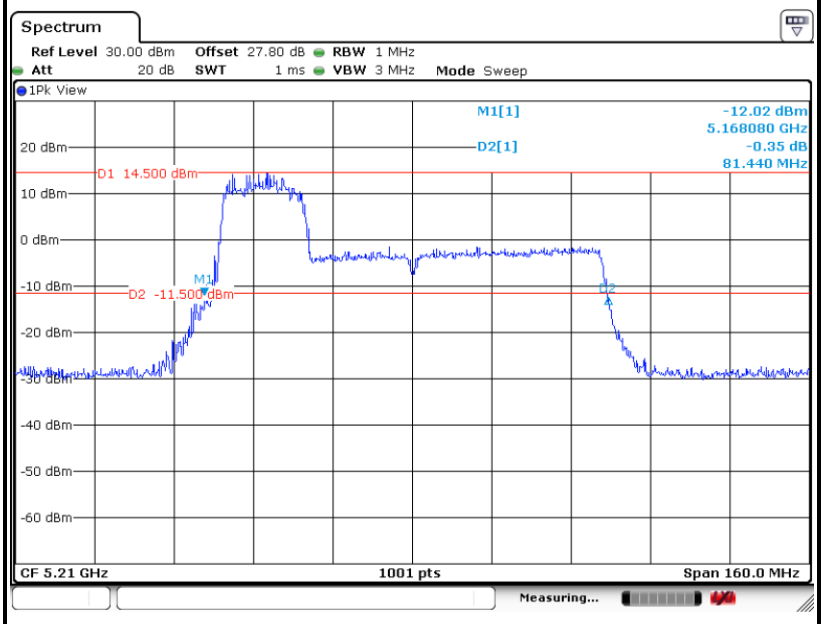
Maximum 99% Occupied Bandwidth



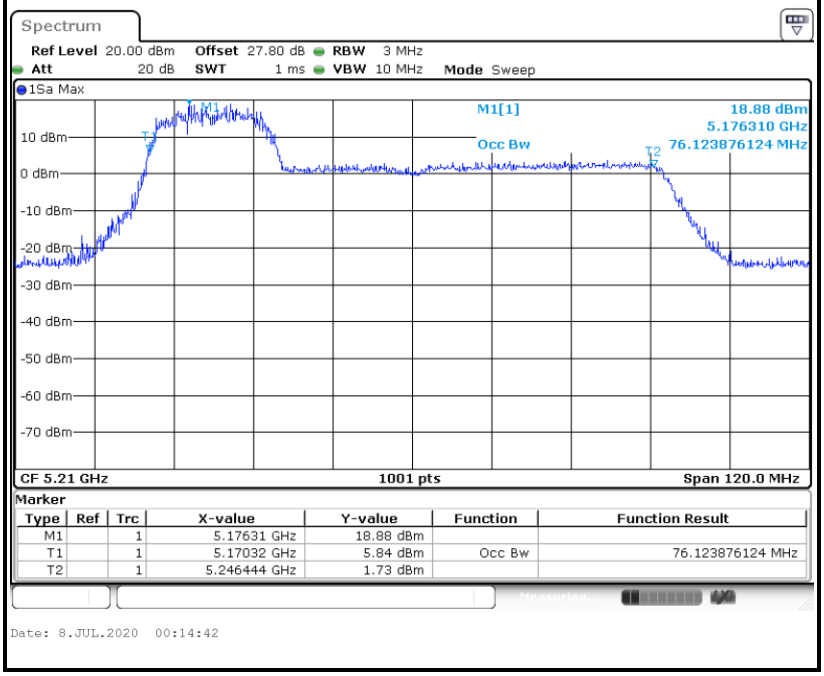
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Mode>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<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>

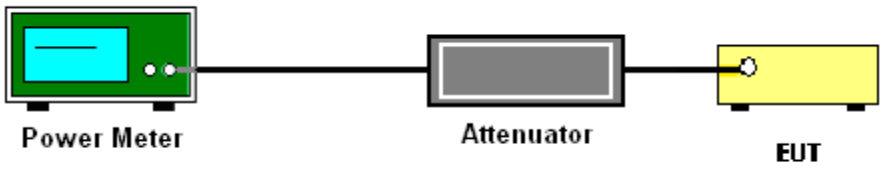
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

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.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

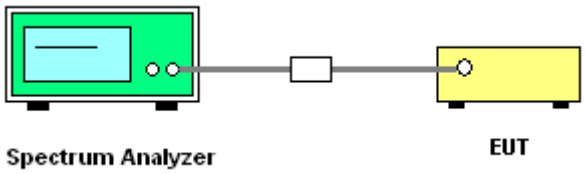
 # Method SA-3 #

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

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

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (a): Measure and sum the spectra across the outputs.
   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

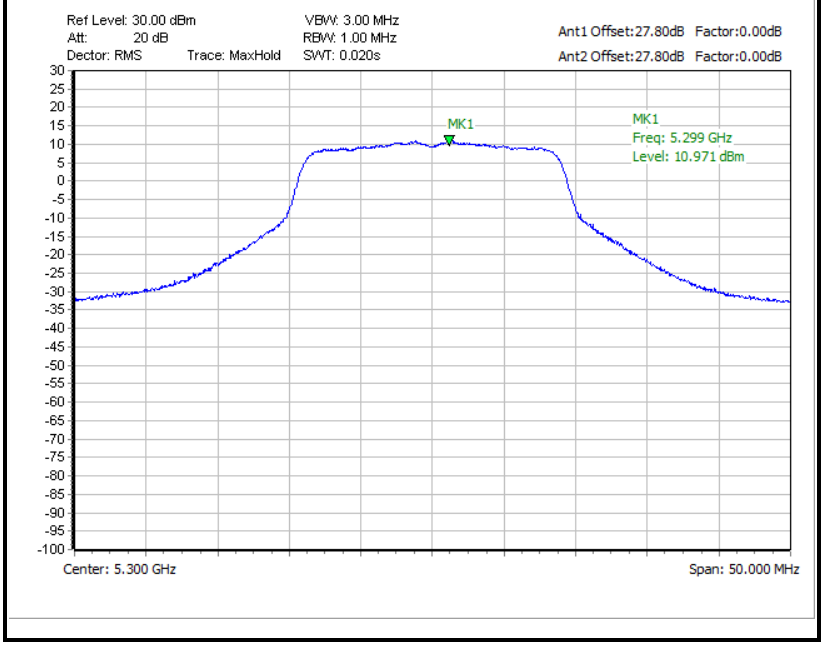


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Mode>

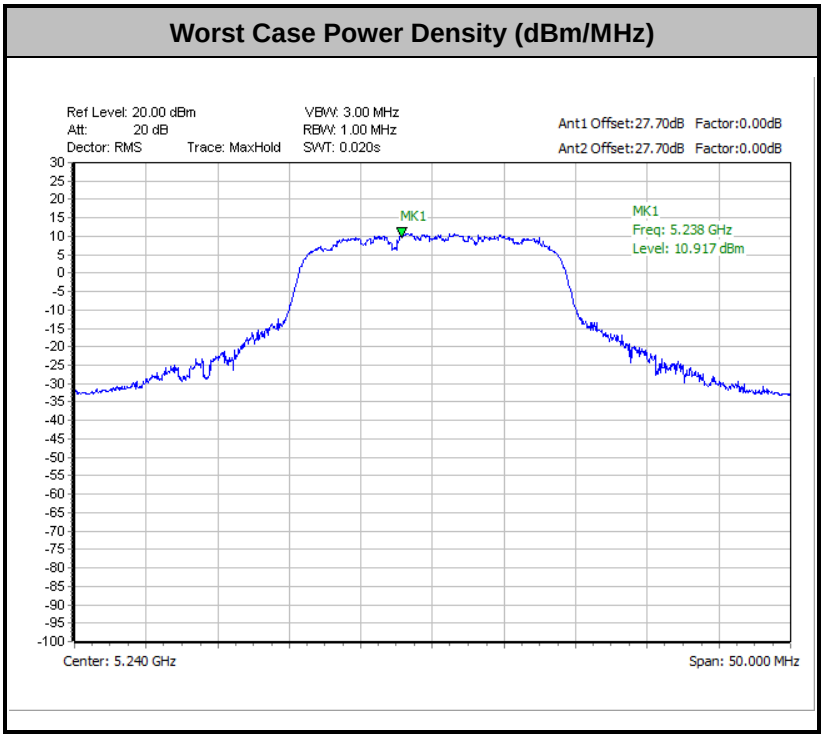
Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

<TXBF Mode>

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

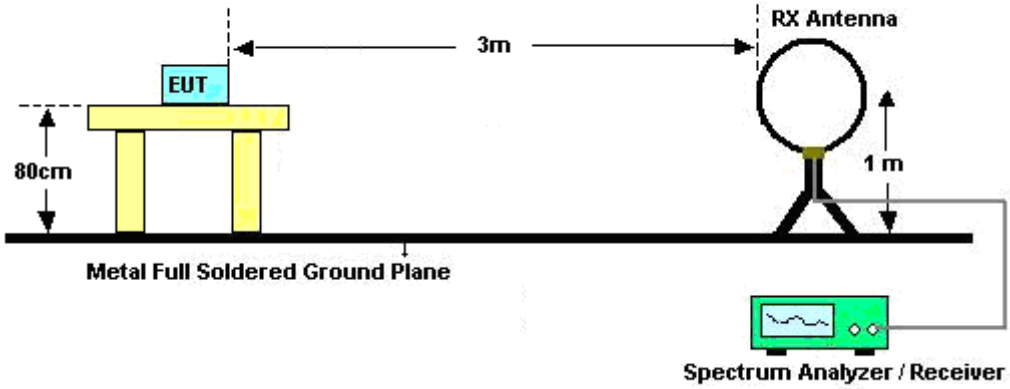
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

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

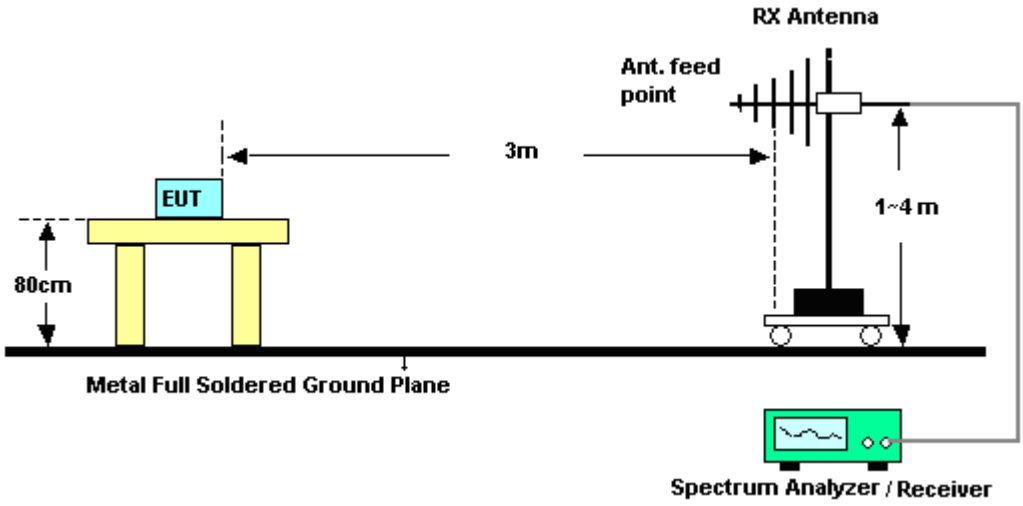
3.4.4 Test Setup

For radiated emissions below 30MHz

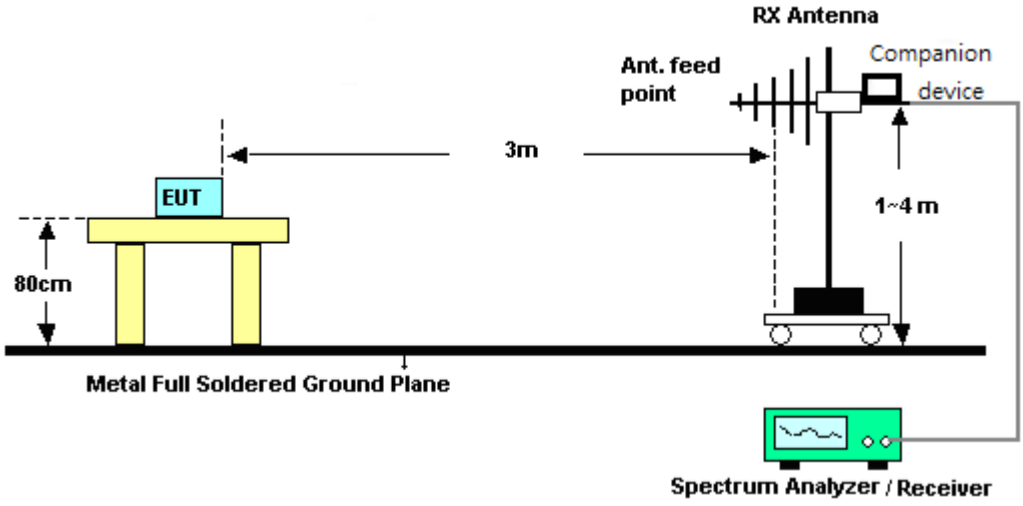


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

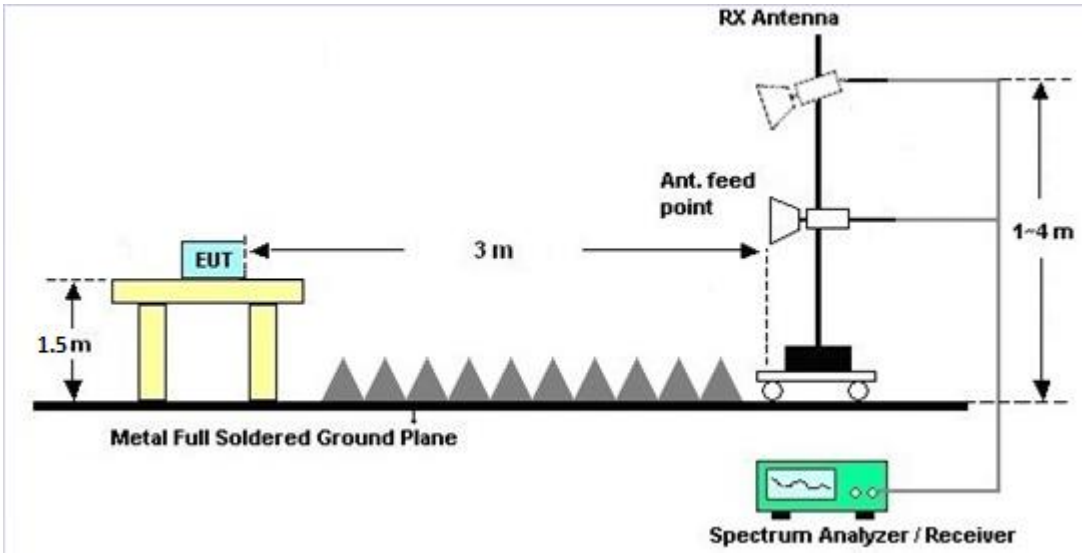


<TXBF Modes>

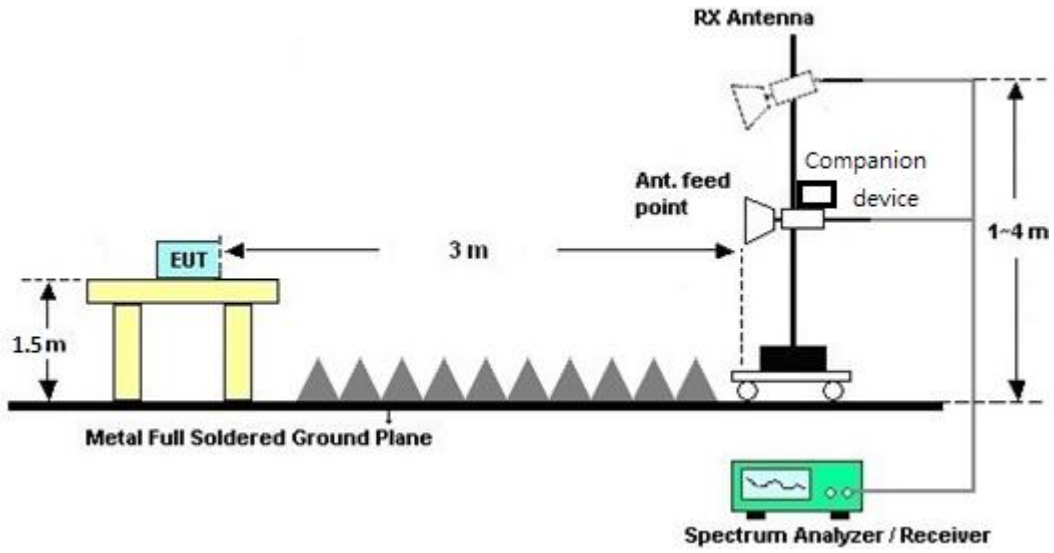


For radiated emissions above 1GHz

<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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

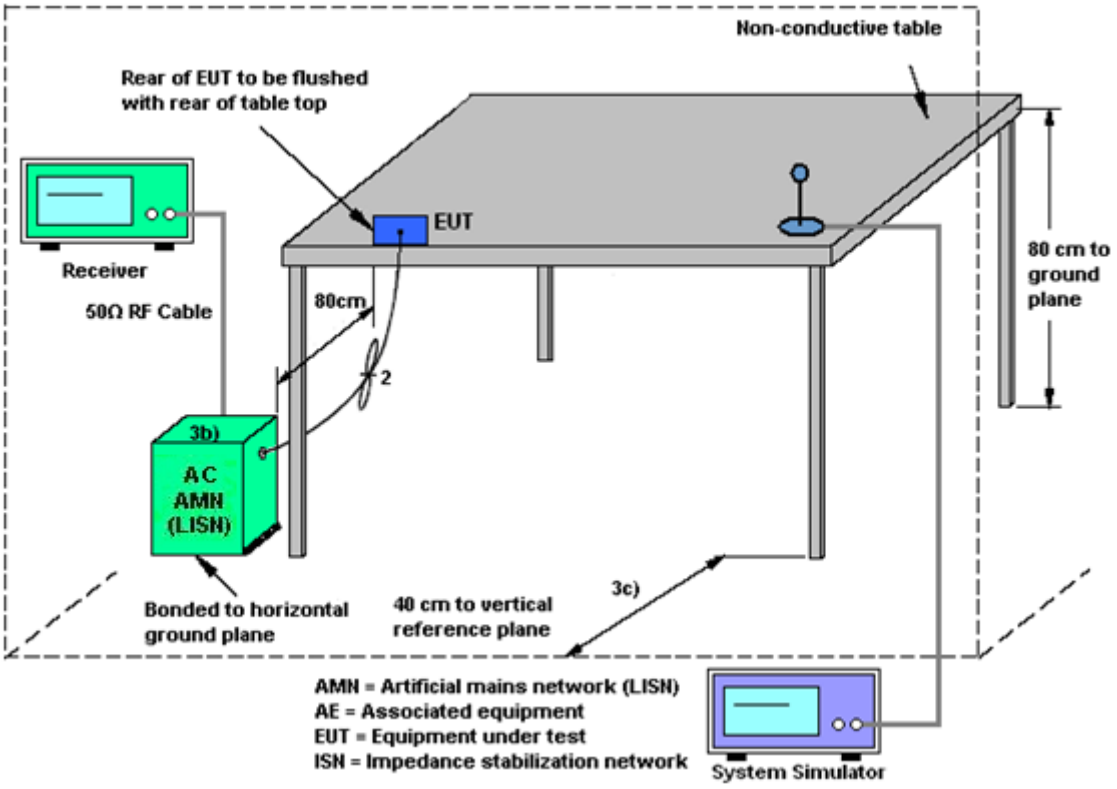
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

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

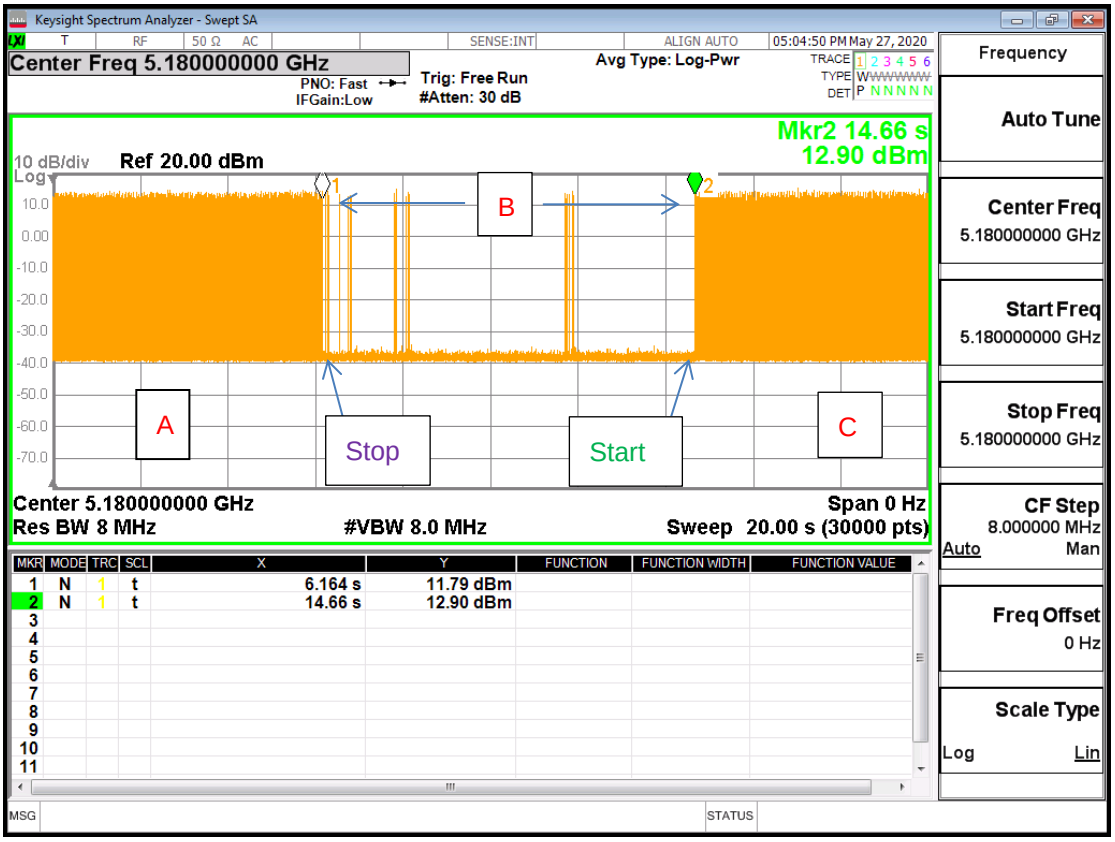
B. Information stop: stop supplying information to the access point.

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

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

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

5180MHz



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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Mode>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

	Ant. 4 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	0.10	0.30	0.30	3.21	0.00	0.00
Band II	-1.15	0.40	0.40	2.67	0.00	0.00
Band III	0.05	0.80	0.80	3.44	0.00	0.00

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

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

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

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

	Ant. 4 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	0.10	0.30	3.21	3.21	0.00	0.00
Band II	-1.15	0.40	2.67	2.67	0.00	0.00
Band III	0.05	0.80	3.44	3.44	0.00	0.00

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
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 23, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	May 23, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	May 23, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	May 23, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 23, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	May 23, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	May 23, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 23, 2019	May 07, 2020~ Jul. 08, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Aug. 22,2019	May 07, 2020~ Jul. 08, 2020	Aug. 21,2020	Conducted (TH05-HY)
Hygrometer	Testo	HTC-1	2	N/A	Mar. 02, 2020	May 07, 2020~ Jul. 08, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Jul. 15, 2019	May 07, 2020~ Jul. 08, 2020	Jul. 14, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	May 15, 2020~ Jul. 07, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Power Supply	GW Instek	SPS-606	GES842931	NA	Aug. 19, 2019	May 07, 2020~ Jul. 08, 2020	Aug. 18, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 27, 2019	May 27, 2020	Aug. 26, 2020	Conducted (TH05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	May 30, 2020~ Jul. 01, 2020	Jan. 08, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 09, 2020	May 30, 2020~ Jul. 01, 2020	Feb. 08, 2021	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2019	May 30, 2020~ Jul. 01, 2020	Dec. 26, 2020	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1620	1-18GHz	Oct. 28, 2019	May 30, 2020~ Jul. 01, 2020	Oct. 27, 2020	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	May 30, 2020~ Jul. 01, 2020	Dec. 09, 2020	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 07, 2020	May 30, 2020~ Jul. 01, 2020	May 06, 2021	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 23, 2019	May 30, 2020~ Jul. 01, 2020	Aug. 22, 2020	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	May 30, 2020~ Jul. 01, 2020	Dec. 12, 2020	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	May 30, 2020~ Jul. 01, 2020	Oct. 31, 2020	Radiation (03CH15-HY
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 04, 2020	May 30, 2020~ Jul. 01, 2020	May 03, 2021	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 30, 2020~ Jul. 01, 2020	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 30, 2020~ Jul. 01, 2020	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	May 30, 2020~ Jul. 01, 2020	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M-18G	Apr. 14, 2020	May 30, 2020~ Jul. 01, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9838/4PE	30M-18G	Apr. 14, 2020	May 30, 2020~ Jul. 01, 2020	Apr. 13, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY37710/4	30M-18G	Apr. 17, 2020	May 30, 2020~ Jul. 01, 2020	Apr. 16, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 25, 2020	May 30, 2020~ Jul. 01, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 25, 2020	May 30, 2020~ Jul. 01, 2020	Feb. 24, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN4	1.53G Low Pass	Jul. 04, 2019	May 30, 2020~ Jul. 01, 2020	Jul. 03, 2020	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	6.75GHz High Pass Filter	Jul. 04, 2019	May 30, 2020~ Jul. 01, 2020	Jul. 03, 2020	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4**

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

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

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

Test Engineer:	Kai Liao/Derek Hsu	Temperature:	21.2~24.1	°C
Test Date:	2020/5/15~2020/07/7	Relative Humidity:	47.2~57.8	%

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180	16.78	16.73	24.55	24.50	-		22.24			
11a	6Mbps	2	44	5220	16.78	16.78	24.65	24.55	-		22.25			
11a	6Mbps	2	48	5240	16.78	16.73	24.10	24.70	-		22.24			
HT20	MCS0	2	36	5180	17.88	17.88	26.50	25.45	-		22.52			
HT20	MCS0	2	44	5220	17.88	17.93	25.75	26.20	-		22.52			
HT20	MCS0	2	48	5240	17.93	17.93	25.60	26.10	-		22.54			
HT40	MCS0	2	38	5190	36.56	36.56	42.57	42.39	-		23.01			
HT40	MCS0	2	46	5230	36.66	37.16	42.12	68.94	-		23.01			
VHT80	MCS0	2	42	5210	76.84	76.84	83.84	84.80	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	36	5180	17.00	16.70	19.86	24.00		0.30		Pass
11a	6Mbps	2	44	5220	16.70	16.50	19.61	24.00		0.30		Pass
11a	6Mbps	2	48	5240	16.30	16.50	19.41	24.00		0.30		Pass
HT20	MCS0	2	36	5180	16.90	16.40	19.67	24.00		0.30		Pass
HT20	MCS0	2	44	5220	17.30	17.00	20.16	24.00		0.30		Pass
HT20	MCS0	2	48	5240	16.90	17.10	20.01	24.00		0.30		Pass
HT40	MCS0	2	38	5190	13.60	13.50	16.56	24.00		0.30		Pass
HT40	MCS0	2	46	5230	19.60	19.50	22.56	24.00		0.30		Pass
VHT20	MCS0	2	36	5180	16.80	16.40	19.61	24.00		0.30		Pass
VHT20	MCS0	2	44	5220	17.20	17.00	20.11	24.00		0.30		Pass
VHT20	MCS0	2	48	5240	16.90	17.00	19.96	24.00		0.30		Pass
VHT40	MCS0	2	38	5190	13.60	13.40	16.51	24.00		0.30		Pass
VHT40	MCS0	2	46	5230	19.50	19.30	22.41	24.00		0.30		Pass
VHT80	MCS0	2	42	5210	12.20	12.30	15.26	24.00		0.30		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180			10.63	11.00		3.21			Pass
11a	6Mbps	2	44	5220			10.60	11.00		3.21			Pass
11a	6Mbps	2	48	5240			10.69	11.00		3.21			Pass
HT20	MCS0	2	36	5180			10.60	11.00		3.21			Pass
HT20	MCS0	2	44	5220			10.89	11.00		3.21			Pass
HT20	MCS0	2	48	5240			10.80	11.00		3.21			Pass
HT40	MCS0	2	38	5190			3.78	11.00		3.21			Pass
HT40	MCS0	2	46	5230			10.45	11.00		3.21			Pass
VHT80	MCS0	2	42	5210			-0.09	11.00		3.21			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	52	5260	16.73	16.78	24.60	25.20	23.24		29.24		23.98		
11a	6Mbps	2	60	5300	16.78	16.83	24.75	25.45	23.25		29.25		23.98		
11a	6Mbps	2	64	5320	16.78	16.78	24.70	25.30	23.25		29.25		23.98		
HT20	MCS0	2	52	5260	17.83	17.98	25.85	26.25	23.51		29.51		23.98		
HT20	MCS0	2	60	5300	17.88	18.03	25.60	26.65	23.52		29.52		23.98		
HT20	MCS0	2	64	5320	17.93	17.93	25.55	26.65	23.54		29.54		23.98		
HT40	MCS0	2	54	5270	36.56	37.46	42.39	69.48	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.66	36.56	42.39	42.48	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.72	76.84	83.52	84.00	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	52	5260	16.60	17.00	19.81	23.98		0.40		30	Pass
11a	6Mbps	2	60	5300	16.40	16.90	19.67	23.98		0.40		30	Pass
11a	6Mbps	2	64	5320	16.20	16.60	19.41	23.98		0.40		30	Pass
HT20	MCS0	2	52	5260	16.60	16.90	19.76	23.98		0.40		30	Pass
HT20	MCS0	2	60	5300	16.90	17.30	20.11	23.98		0.40		30	Pass
HT20	MCS0	2	64	5320	16.60	17.00	19.81	23.98		0.40		30	Pass
HT40	MCS0	2	54	5270	19.20	19.80	22.52	23.98		0.40		30	Pass
HT40	MCS0	2	62	5310	14.90	14.90	17.91	23.98		0.40		30	Pass
VHT20	MCS0	2	52	5260	16.60	16.80	19.71	23.98		0.40		30	Pass
VHT20	MCS0	2	60	5300	16.90	17.20	20.06	23.98		0.40		30	Pass
VHT20	MCS0	2	64	5320	16.60	16.90	19.76	23.98		0.40		30	Pass
VHT40	MCS0	2	54	5270	19.00	19.70	22.37	23.98		0.40		30	Pass
VHT40	MCS0	2	62	5310	14.80	14.90	17.86	23.98		0.40		30	Pass
VHT80	MCS0	2	58	5290	14.20	14.50	17.36	23.98		0.40		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	52	5260			10.86	11.00		2.67			Pass
11a	6Mbps	2	60	5300			10.64	11.00		2.67			Pass
11a	6Mbps	2	64	5320			10.50	11.00		2.67			Pass
HT20	MCS0	2	52	5260			10.55	11.00		2.67			Pass
HT20	MCS0	2	60	5300			10.97	11.00		2.67			Pass
HT20	MCS0	2	64	5320			10.77	11.00		2.67			Pass
HT40	MCS0	2	54	5270			10.26	11.00		2.67			Pass
HT40	MCS0	2	62	5310			5.39	11.00		2.67			Pass
VHT80	MCS0	2	58	5290			2.90	11.00		2.67			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	100	5500	16.88	16.83	24.90	25.55	23.26		29.26		23.98		----	----
11a	6Mbps	2	116	5580	16.83	16.83	25.00	25.85	23.26		29.26		23.98		----	----
11a	6Mbps	2	140	5700	16.83	16.98	25.10	27.10	23.26		29.26		23.98		----	----
HT20	MCS0	2	100	5500	17.88	18.03	25.50	26.30	23.52		29.52		23.98		----	----
HT20	MCS0	2	116	5580	17.98	18.03	26.10	26.80	23.55		29.55		23.98		----	----
HT20	MCS0	2	140	5700	17.98	18.18	26.45	27.25	23.55		29.55		23.98		----	----
HT40	MCS0	2	102	5510	36.56	36.56	41.94	42.39	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.66	37.56	42.03	71.73	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.56	37.46	42.39	70.11	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	76.96	76.84	84.48	84.32	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.84	77.20	83.84	83.52	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	144	5720	13.44	13.44	17.75	17.45	22.28		28.28		23.42		2.9	3.15
HT20	MCS0	2	144	5720	14.04	14.04	18.45	18.25	22.47		28.47		23.61		2.55	3.75
HT40	MCS0	2	142	5710	33.28	33.78	36.06	53.16	23.98		30.00		23.98		2.82	2.91
VHT80	MCS0	2	138	5690	73.36	73.48	76.44	90.04	23.98		30.00		23.98		2.6	2.6

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	100	5500	16.50	16.70	19.61	23.98		0.80		30	Pass
11a	6Mbps	2	116	5580	16.10	16.90	19.53	23.98		0.80		30	Pass
11a	6Mbps	2	140	5700	16.30	17.40	19.90	23.98		0.80		30	Pass
HT20	MCS0	2	100	5500	16.90	17.20	20.06	23.98		0.80		30	Pass
HT20	MCS0	2	116	5580	16.30	17.40	19.90	23.98		0.80		30	Pass
HT20	MCS0	2	140	5700	16.30	17.40	19.90	23.98		0.80		30	Pass
HT40	MCS0	2	102	5510	17.20	17.10	20.16	23.98		0.80		30	Pass
HT40	MCS0	2	110	5550	19.30	19.80	22.57	23.98		0.80		30	Pass
HT40	MCS0	2	134	5670	19.20	19.90	22.57	23.98		0.80		30	Pass
VHT20	MCS0	2	100	5500	16.80	17.20	20.01	23.98		0.80		30	Pass
VHT20	MCS0	2	116	5580	16.30	17.30	19.84	23.98		0.80		30	Pass
VHT20	MCS0	2	140	5700	16.20	17.30	19.80	23.98		0.80		30	Pass
VHT40	MCS0	2	102	5510	17.10	17.20	20.16	23.98		0.80		30	Pass
VHT40	MCS0	2	110	5550	19.10	19.30	22.21	23.98		0.80		30	Pass
VHT40	MCS0	2	134	5670	19.00	19.80	22.43	23.98		0.80		30	Pass
VHT80	MCS0	2	106	5530	16.30	16.30	19.31	23.98		0.80		30	Pass
VHT80	MCS0	2	122	5610	18.10	19.00	21.58	23.98		0.80		30	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	144	5720	16.30	17.30	19.84	23.42		0.80		30	Pass
HT20	MCS0	2	144	5720	16.30	17.40	19.90	23.61		0.80		30	Pass
HT40	MCS0	2	142	5710	19.10	19.90	22.53	23.98		0.80		30	Pass
VHT20	MCS0	2	144	5720	16.30	17.30	19.84	23.61		0.80		30	Pass
VHT40	MCS0	2	142	5710	19.00	19.70	22.37	23.98		0.80		30	Pass
VHT80	MCS0	2	138	5690	18.20	19.10	21.68	23.98		0.80		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	100	5500			10.50	11.00		3.44			Pass
11a	6Mbps	2	116	5580			10.57	11.00		3.44			Pass
11a	6Mbps	2	140	5700			10.87	11.00		3.44			Pass
HT20	MCS0	2	100	5500			10.69	11.00		3.44			Pass
HT20	MCS0	2	116	5580			10.79	11.00		3.44			Pass
HT20	MCS0	2	140	5700			10.65	11.00		3.44			Pass
HT40	MCS0	2	102	5510			7.74	11.00		3.44			Pass
HT40	MCS0	2	110	5550			10.20	11.00		3.44			Pass
HT40	MCS0	2	134	5670			9.86	11.00		3.44			Pass
VHT80	MCS0	2	106	5530			4.60	11.00		3.44			Pass
VHT80	MCS0	2	122	5610			7.19	11.00		3.44			Pass

Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	144	5720			10.77	11.00		3.44			Pass
HT20	MCS0	2	144	5720			10.74	11.00		3.44			Pass
HT40	MCS0	2	142	5710			10.24	11.00		3.44			Pass
VHT80	MCS0	2	138	5690			7.03	11.00		3.44			Pass

<TXBF Mode>

Test Engineer:	Ryan	Temperature:	21.2~24.1	°C
Test Date:	2020/5/7~2020/07/08	Relative Humidity:	47.2~57.8	%

Report Number : FR051232E

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
VHT20	MCS0	2	36	5180	17.88	17.88	24.15	24.20	-		22.52			
VHT20	MCS0	2	44	5220	17.93	17.78	23.55	23.80	-		22.50			
VHT20	MCS0	2	48	5240	17.88	17.88	24.50	24.25	-		22.52			
VHT40	MCS0	2	38	5190	36.96	36.26	40.41	42.57	-		23.01			
VHT40	MCS0	2	46	5230	36.86	37.16	42.48	44.28	-		23.01			
VHT80	MCS0	2	42	5210	75.52	76.12	81.12	81.44	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
VHT20	MCS0	2	36	5180	15.50	14.90	18.22	24.00		3.21			Pass
VHT20	MCS0	2	44	5220	15.20	15.30	18.26	24.00		3.21			Pass
VHT20	MCS0	2	48	5240	15.70	15.40	18.56	24.00		3.21			Pass
VHT40	MCS0	2	38	5190	10.20	9.50	12.87	24.00		3.21			Pass
VHT40	MCS0	2	46	5230	15.20	14.50	17.87	24.00		3.21			Pass
VHT80	MCS0	2	42	5210	10.40	9.50	12.98	24.00		3.21			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
VHT20	MCS0	2	36	5180			10.74	11.00		3.21		Pass
VHT20	MCS0	2	44	5220			10.73	11.00		3.21		Pass
VHT20	MCS0	2	48	5240			10.92	11.00		3.21		Pass
VHT40	MCS0	2	38	5190			1.94	11.00		3.21		Pass
VHT40	MCS0	2	46	5230			10.76	11.00		3.21		Pass
VHT80	MCS0	2	42	5210			1.60	11.00		3.21		Pass

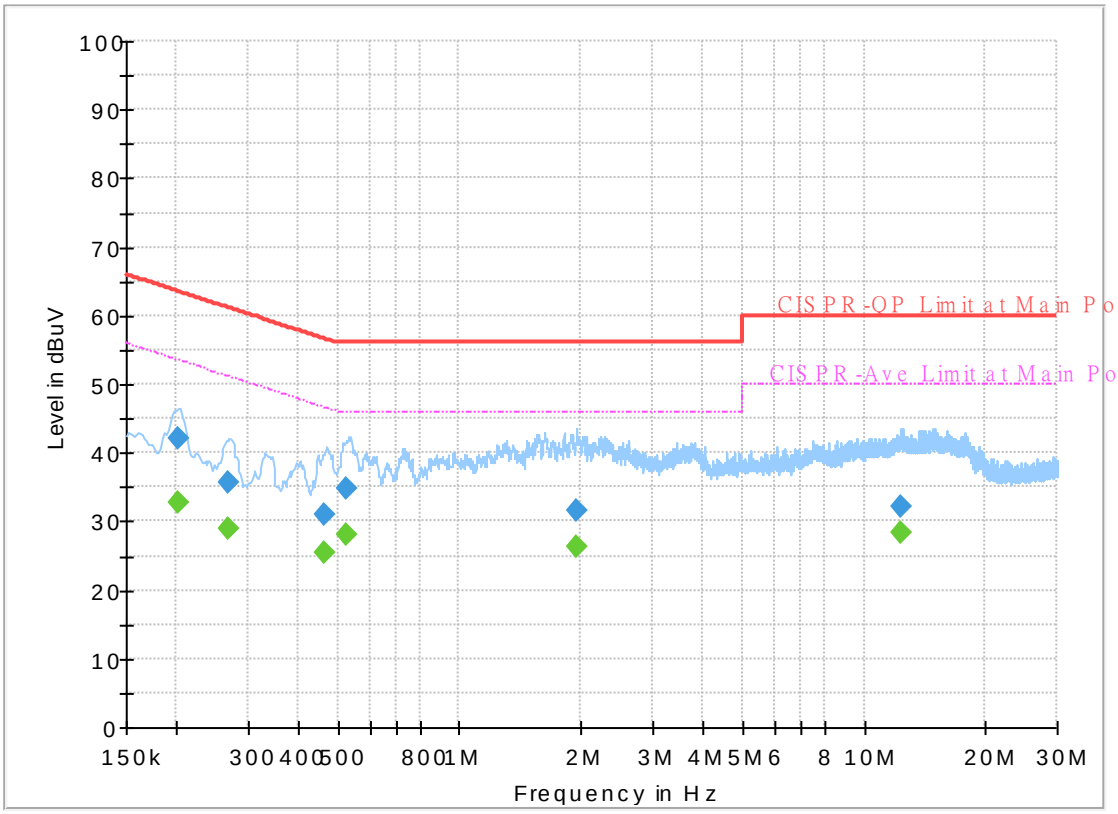
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	21~24℃
		Relative Humidity :	42~50%

EUT Information

Report NO :	051232
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



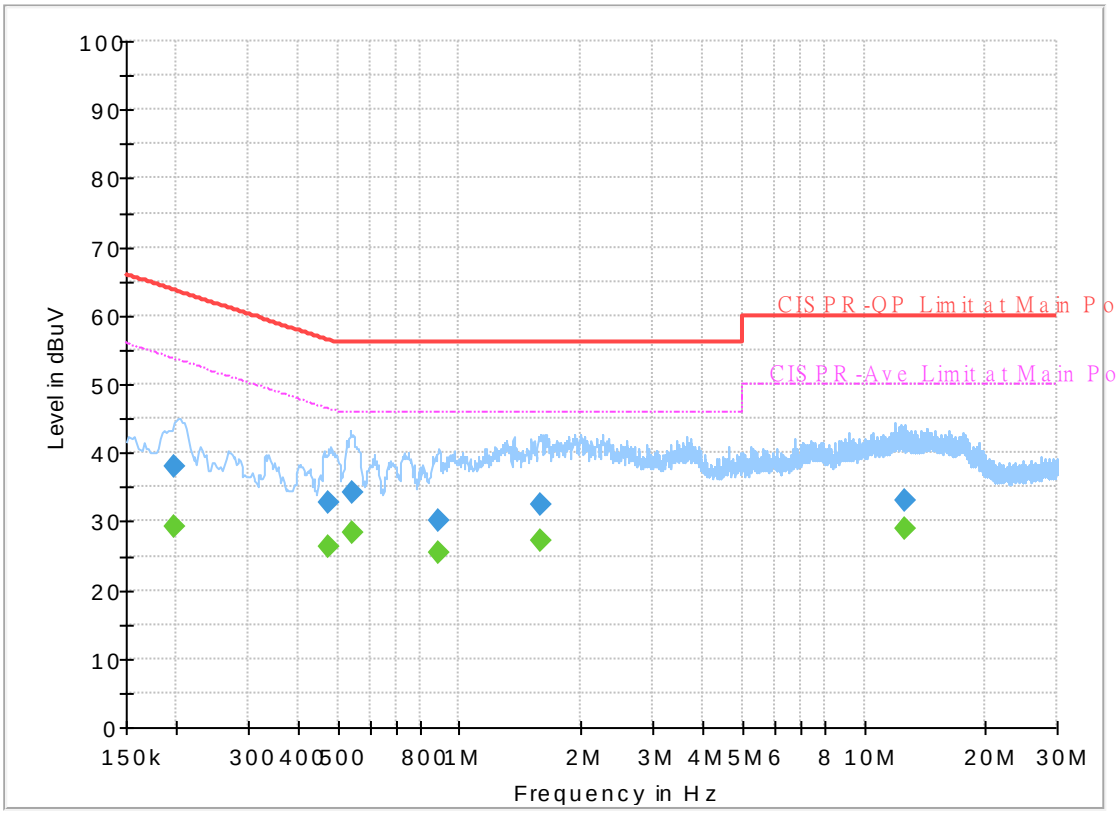
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.201750	---	32.77	53.54	20.77	L1	OFF	19.6
0.201750	42.09	---	63.54	21.45	L1	OFF	19.6
0.267450	---	29.00	51.20	22.20	L1	OFF	19.6
0.267450	35.55	---	61.20	25.65	L1	OFF	19.6
0.465000	---	25.48	46.60	21.12	L1	OFF	19.6
0.465000	31.06	---	56.60	25.54	L1	OFF	19.6
0.528000	---	28.14	46.00	17.86	L1	OFF	19.6
0.528000	34.81	---	56.00	21.19	L1	OFF	19.6
1.947660	---	26.39	46.00	19.61	L1	OFF	19.6
1.947660	31.64	---	56.00	24.36	L1	OFF	19.6
12.340410	---	28.45	50.00	21.55	L1	OFF	20.2
12.340410	32.30	---	60.00	27.70	L1	OFF	20.2

EUT Information

Report NO :	051232
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)
0.196800	---	29.34	53.75	24.41	N	OFF	19.6
0.196800	38.12	---	63.75	25.63	N	OFF	19.6
0.476250	---	26.36	46.40	20.04	N	OFF	19.6
0.476250	32.87	---	56.40	23.53	N	OFF	19.6
0.541500	---	28.39	46.00	17.61	N	OFF	19.6
0.541500	34.12	---	56.00	21.88	N	OFF	19.6
0.886380	---	25.50	46.00	20.50	N	OFF	19.6
0.886380	30.10	---	56.00	25.90	N	OFF	19.6
1.593600	---	27.22	46.00	18.78	N	OFF	19.6
1.593600	32.56	---	56.00	23.44	N	OFF	19.6
12.657660	---	29.01	50.00	20.99	N	OFF	20.2
12.657660	32.98	---	60.00	27.02	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	21.4~22.9°C
		Relative Humidity :	52~61%

<CDD Mode>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.98	57.82	-16.18	74	45.66	32.1	10.49	30.43	241	74	P	H
		5149.24	46.05	-7.95	54	33.89	32.1	10.49	30.43	241	74	A	H
	*	5180	109.8	-	-	97.77	31.92	10.54	30.43	241	74	P	H
	*	5180	101.79	-	-	89.76	31.92	10.54	30.43	241	74	A	H
		5150.02	61.06	-88.94	150	48.9	32.1	10.49	30.43	248	337	P	V
		5150	50.21	-3.79	54	38.05	32.1	10.49	30.43	248	337	A	V
	*	5180	112	-	-	99.97	31.92	10.54	30.43	248	337	P	V
	*	5180	104.09	-	-	92.06	31.92	10.54	30.43	248	337	A	V
802.11a CH 44 5220MHz		5085.54	52.09	-21.91	74	40.15	31.97	10.4	30.43	251	67	P	H
		5148.2	41.42	-12.58	54	29.26	32.1	10.49	30.43	251	67	A	H
	*	5220	111.23	-	-	99.4	31.68	10.58	30.43	251	67	P	H
	*	5220	103.42	-	-	91.59	31.68	10.58	30.43	251	67	A	H
		5440.68	52.52	-21.48	74	40.54	31.7	10.71	30.43	251	67	P	H
		5422.48	41.39	-12.61	54	29.43	31.7	10.69	30.43	251	67	A	H
		5100.88	51.89	-22.11	74	39.9	32	10.42	30.43	261	336	P	V
		5150	41.63	-12.37	54	29.47	32.1	10.49	30.43	261	336	A	V
	*	5220	112.77	-	-	100.94	31.68	10.58	30.43	261	336	P	V
	*	5220	104.75	-	-	92.92	31.68	10.58	30.43	261	336	A	V
		5450.2	51.82	-22.18	74	39.83	31.7	10.72	30.43	261	336	P	V
		5452.72	41.4	-12.6	54	29.39	31.72	10.72	30.43	261	336	A	V

802.11a CH 48 5240MHz		5092.56	52.17	-21.83	74	40.2	31.99	10.41	30.43	249	68	P	H
		5142.22	41.28	-12.72	54	29.15	32.08	10.48	30.43	249	68	A	H
	*	5240	111.94	-	-	100.22	31.56	10.59	30.43	249	68	P	H
	*	5240	103.73	-	-	92.01	31.56	10.59	30.43	249	68	A	H
		5353.6	52.06	-21.94	74	40.43	31.42	10.64	30.43	249	68	P	H
		5415.48	41.39	-12.61	54	29.44	31.7	10.68	30.43	249	68	A	H
		5143.52	52.32	-21.68	74	40.18	32.09	10.48	30.43	244	337	P	V
		5150	41.42	-12.58	54	29.26	32.1	10.49	30.43	244	337	A	V
	*	5240	112.94	-	-	101.22	31.56	10.59	30.43	244	337	P	V
	*	5240	104.76	-	-	93.04	31.56	10.59	30.43	244	337	A	V
		5377.68	52.08	-21.92	74	40.29	31.57	10.65	30.43	244	337	P	V
		5452.72	41.42	-12.58	54	29.41	31.72	10.72	30.43	244	337	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	48.94	-19.26	68.2	55.68	39.9	14.26	60.9	100	0	P	H
		15540	47.9	-26.1	74	55.32	38	17.29	62.71	100	0	P	H
													H
													H
		10360	48.35	-19.85	68.2	55.09	39.9	14.26	60.9	100	0	P	V
		15540	45.68	-28.32	74	53.1	38	17.29	62.71	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48.53	-19.67	68.2	55.15	40.1	14.3	61.02	100	0	P	H
		15660	48	-26	74	55.16	37.58	17.39	62.13	100	0	P	H
													H
													H
		10440	48.05	-20.15	68.2	54.67	40.1	14.3	61.02	100	0	P	V
		15660	46.33	-27.67	74	53.49	37.58	17.39	62.13	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	47.59	-20.61	68.2	54.25	40.1	14.31	61.07	100	0	P	H
		15720	47.45	-26.55	74	54.41	37.46	17.42	61.84	100	0	P	H
													H
													H
		10480	47.81	-20.39	68.2	54.47	40.1	14.31	61.07	100	0	P	V
		15720	47.21	-26.79	74	54.17	37.46	17.42	61.84	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 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5146.64	53.94	-20.06	74	41.79	32.09	10.49	30.43	219	69	P	H
		5150	45.12	-8.88	54	32.96	32.1	10.49	30.43	219	69	A	H
	*	5180	108.08	-	-	96.05	31.92	10.54	30.43	219	69	P	H
	*	5180	100.1	-	-	88.07	31.92	10.54	30.43	219	69	A	H
802.11n													H
HT20													H
CH 36		5149.5	58.49	-15.51	74	46.33	32.1	10.49	30.43	221	337	P	V
5180MHz		5150	48.75	-5.25	54	36.59	32.1	10.49	30.43	221	337	A	V
	*	5180	109.59	-	-	97.56	31.92	10.54	30.43	221	337	P	V
	*	5180	100.47	-	-	88.44	31.92	10.54	30.43	221	337	A	V
													V
													V
		5149.24	52.54	-21.46	74	40.38	32.1	10.49	30.43	245	70	P	H
		5144.82	42.4	-11.6	54	30.25	32.09	10.49	30.43	245	70	A	H
	*	5220	109.72	-	-	97.89	31.68	10.58	30.43	245	70	P	H
	*	5220	101.96	-	-	90.13	31.68	10.58	30.43	245	70	A	H
802.11n		5363.68	51.93	-22.07	74	40.24	31.48	10.64	30.43	245	70	P	H
HT20		5433.12	42.31	-11.69	54	30.34	31.7	10.7	30.43	245	70	A	H
CH 44		5137.54	52.21	-21.79	74	40.08	32.08	10.48	30.43	264	342	P	V
5220MHz		5093.86	42.36	-11.64	54	30.39	31.99	10.41	30.43	264	342	A	V
	*	5220	110.64	-	-	98.81	31.68	10.58	30.43	264	342	P	V
	*	5220	102.88	-	-	91.05	31.68	10.58	30.43	264	342	A	V
		5355.28	52.05	-21.95	74	40.41	31.43	10.64	30.43	264	342	P	V
		5371.24	42.34	-11.66	54	30.59	31.53	10.65	30.43	264	342	A	V

		5137.54	52.5	-21.5	74	40.37	32.08	10.48	30.43	243	73	P	H
		5145.86	42.26	-11.74	54	30.11	32.09	10.49	30.43	243	73	A	H
	*	5240	109.82	-	-	98.1	31.56	10.59	30.43	243	73	P	H
	*	5240	102.04	-	-	90.32	31.56	10.59	30.43	243	73	A	H
802.11n		5398.4	52.22	-21.78	74	40.3	31.69	10.66	30.43	243	73	P	H
HT20		5418	42.34	-11.66	54	30.39	31.7	10.68	30.43	243	73	A	H
CH 48		5114.66	52.51	-21.49	74	40.47	32.03	10.44	30.43	261	340	P	V
5240MHz		5139.88	42.23	-11.77	54	30.1	32.08	10.48	30.43	261	340	A	V
	*	5240	110.75	-	-	99.03	31.56	10.59	30.43	261	340	P	V
	*	5240	103.02	-	-	91.3	31.56	10.59	30.43	261	340	A	V
		5444.6	52.09	-21.91	74	40.11	31.7	10.71	30.43	261	340	P	V
		5422.2	42.26	-11.74	54	30.3	31.7	10.69	30.43	261	340	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. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	48.03	-20.17	68.2	54.77	39.9	14.26	60.9	100	0	P	H
		15540	47.56	-26.44	74	54.98	38	17.29	62.71	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	49.83	-18.37	68.2	56.57	39.9	14.26	60.9	100	0	P	V
5180MHz		15540	47.78	-26.22	74	55.2	38	17.29	62.71	100	0	P	V
													V
													V
		10440	47.8	-20.4	68.2	54.42	40.1	14.3	61.02	100	0	P	H
		15660	46.24	-27.76	74	53.4	37.58	17.39	62.13	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	47.28	-20.92	68.2	53.9	40.1	14.3	61.02	100	0	P	V
5220MHz		15660	47.7	-26.3	74	54.86	37.58	17.39	62.13	100	0	P	V
													V
													V
		10480	48.37	-19.83	68.2	55.03	40.1	14.31	61.07	100	0	P	H
		15720	46.73	-27.27	74	53.69	37.46	17.42	61.84	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	47.74	-20.46	68.2	54.4	40.1	14.31	61.07	100	0	P	V
5240MHz		15720	47.12	-26.88	74	54.08	37.46	17.42	61.84	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.76	59.15	-14.85	74	46.99	32.1	10.49	30.43	263	334	P	V
		5150	49.78	-4.22	54	37.62	32.1	10.49	30.43	263	334	A	V
	*	5190	101.21	-	-	89.23	31.86	10.55	30.43	263	334	P	V
	*	5190	93.64	-	-	81.66	31.86	10.55	30.43	263	334	A	V
802.11n		5448.24	52.47	-21.53	74	40.48	31.7	10.72	30.43	263	334	P	V
HT40		5396.16	43.01	-10.99	54	31.1	31.68	10.66	30.43	263	334	A	V
CH 38		5145.08	58.08	-15.92	74	45.93	32.09	10.49	30.43	250	66	P	H
5190MHz		5148.72	49.14	-4.86	54	36.98	32.1	10.49	30.43	250	66	A	H
	*	5190	100.87	-	-	88.89	31.86	10.55	30.43	250	66	P	H
	*	5190	92.76	-	-	80.78	31.86	10.55	30.43	250	66	A	H
		5369	52.77	-21.23	74	41.04	31.51	10.65	30.43	250	66	P	H
		5445.72	43.01	-10.99	54	31.03	31.7	10.71	30.43	250	66	A	H
		5118.04	52.83	-21.17	74	40.77	32.04	10.45	30.43	219	67	P	H
		5149.76	43.94	-10.06	54	31.78	32.1	10.49	30.43	219	67	A	H
	*	5230	107.48	-	-	95.71	31.62	10.58	30.43	219	67	P	H
	*	5230	100.05	-	-	88.28	31.62	10.58	30.43	219	67	A	H
802.11n		5428.36	51.77	-22.23	74	39.81	31.7	10.69	30.43	219	67	P	H
HT40		5350.52	43.54	-10.46	54	31.93	31.4	10.64	30.43	219	67	A	H
CH 46		5149.5	53.48	-20.52	74	41.32	32.1	10.49	30.43	273	334	P	V
5230MHz		5150	44.85	-9.15	54	32.69	32.1	10.49	30.43	273	334	A	V
	*	5230	107.95	-	-	96.18	31.62	10.58	30.43	273	334	P	V
	*	5230	100.24	-	-	88.47	31.62	10.58	30.43	273	334	A	V
		5420.8	51.87	-22.13	74	39.91	31.7	10.69	30.43	273	334	P	V
		5398.4	43.45	-10.55	54	31.53	31.69	10.66	30.43	273	334	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	48.97	-19.23	68.2	55.63	40	14.27	60.93	100	0	P	H
		15570	46.75	-27.25	74	54.14	37.85	17.32	62.56	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	48.18	-20.02	68.2	54.84	40	14.27	60.93	100	0	P	V
5190MHz		15570	47.39	-26.61	74	54.78	37.85	17.32	62.56	100	0	P	V
													V
													V
		10460	48.07	-20.13	68.2	54.71	40.1	14.3	61.04	100	0	P	H
		15690	46.95	-27.05	74	54.01	37.52	17.41	61.99	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	48.7	-19.5	68.2	55.34	40.1	14.3	61.04	100	0	P	V
5230MHz		15690	47.98	-26.02	74	55.04	37.52	17.41	61.99	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. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5146.12	56.83	-17.17	74	44.68	32.09	10.49	30.43	247	62	P	H
		5138.84	46.91	-7.09	54	34.78	32.08	10.48	30.43	247	62	A	H
	*	5210	96.24	-	-	84.36	31.74	10.57	30.43	247	62	P	H
	*	5210	88.68	-	-	76.8	31.74	10.57	30.43	247	62	A	H
		5435.92	52.32	-21.68	74	40.35	31.7	10.7	30.43	247	62	P	H
		5459.72	42.27	-11.73	54	30.21	31.76	10.73	30.43	247	62	A	H
		5147.94	59.09	-14.91	74	46.93	32.1	10.49	30.43	264	342	P	V
		5144.04	50.74	-3.26	54	38.59	32.09	10.49	30.43	264	342	A	V
	*	5210	97.18	-	-	85.3	31.74	10.57	30.43	264	342	P	V
	*	5210	89.23	-	-	77.35	31.74	10.57	30.43	264	342	A	V
		5449.92	51.07	-22.93	74	39.08	31.7	10.72	30.43	264	342	P	V
		5416.32	42.33	-11.67	54	30.38	31.7	10.68	30.43	264	342	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	48.24	-19.96	68.2	54.85	40.1	14.28	60.99	100	0	P	H
		15630	47.56	-26.44	74	54.84	37.64	17.36	62.28	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	48.16	-20.04	68.2	54.77	40.1	14.28	60.99	100	0	P	V
5210MHz		15630	47.78	-26.22	74	55.06	37.64	17.36	62.28	100	0	P	V
													V
													V

Remark

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5076.5	51.07	-22.93	74	39.16	31.95	10.39	30.43	100	69	P	H
		5107.1	40.9	-13.1	54	28.89	32.01	10.43	30.43	100	69	A	H
	*	5260	111.24	-	-	99.59	31.48	10.6	30.43	100	69	P	H
	*	5260	103.28	-	-	91.63	31.48	10.6	30.43	100	69	A	H
		5457.6	52.01	-21.99	74	39.96	31.75	10.73	30.43	100	69	P	H
		5452.8	40.84	-13.16	54	28.83	31.72	10.72	30.43	100	69	A	H
		5059.5	51.88	-22.12	74	40.03	31.92	10.36	30.43	233	342	P	V
		5107.78	40.95	-13.05	54	28.93	32.02	10.43	30.43	233	342	A	V
	*	5260	111.7	-	-	100.05	31.48	10.6	30.43	233	342	P	V
	*	5260	103.28	-	-	91.63	31.48	10.6	30.43	233	342	A	V
		5428.08	51.67	-22.33	74	39.71	31.7	10.69	30.43	233	342	P	V
		5452.8	40.85	-13.15	54	28.84	31.72	10.72	30.43	233	342	A	V
802.11a CH 60 5300MHz		5124.78	52.79	-21.21	74	40.71	32.05	10.46	30.43	243	69	P	H
		5107.44	41.3	-12.7	54	29.29	32.01	10.43	30.43	243	69	A	H
	*	5300	112.25	-	-	100.67	31.4	10.61	30.43	243	69	P	H
	*	5300	104.08	-	-	92.5	31.4	10.61	30.43	243	69	A	H
		5368.56	53.66	-20.34	74	41.93	31.51	10.65	30.43	243	69	P	H
		5357.52	43.21	-10.79	54	31.55	31.45	10.64	30.43	243	69	A	H
		5148.58	52.35	-21.65	74	40.19	32.1	10.49	30.43	253	336	P	V
		5108.8	41.28	-12.72	54	29.26	32.02	10.43	30.43	253	336	A	V
	*	5300	112.04	-	-	100.46	31.4	10.61	30.43	253	336	P	V
	*	5300	103.76	-	-	92.18	31.4	10.61	30.43	253	336	A	V
		5352	54.55	-19.45	74	42.93	31.41	10.64	30.43	253	336	P	V
		5350.32	42.71	-11.29	54	31.1	31.4	10.64	30.43	253	336	A	V

802.11a CH 64 5320MHz	*	5320	112.59	-	-	101	31.4	10.62	30.43	100	67	P	H
	*	5320	104.76	-	-	93.17	31.4	10.62	30.43	100	67	A	H
		5350.24	61.95	-12.05	74	50.34	31.4	10.64	30.43	100	67	P	H
		5351.04	50.11	-3.89	54	38.49	31.41	10.64	30.43	100	67	A	H
													H
													H
	*	5320	112.05	-	-	100.46	31.4	10.62	30.43	240	342	P	V
	*	5320	103.98	-	-	92.39	31.4	10.62	30.43	240	342	A	V
		5350.4	59.85	-14.15	74	48.24	31.4	10.64	30.43	240	342	P	V
		5350.08	49.12	-4.88	54	37.51	31.4	10.64	30.43	240	342	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	47.15	-21.05	68.2	53.83	40.12	14.3	61.1	100	0	P	H
		15780	47.86	-26.14	74	54.63	37.34	17.45	61.56	100	0	P	H
													H
													H
		10520	47.49	-20.71	68.2	54.17	40.12	14.3	61.1	100	0	P	V
		15780	47.79	-26.21	74	54.56	37.34	17.45	61.56	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	48.27	-25.73	74	54.89	40.2	14.28	61.1	100	0	P	H
		15900	46.18	-27.82	74	52.84	36.8	17.52	60.98	100	0	P	H
													H
													H
		10600	47.99	-26.01	74	54.61	40.2	14.28	61.1	100	0	P	V
		15900	46.78	-27.22	74	53.44	36.8	17.52	60.98	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.99	-25.01	74	55.67	40.16	14.26	61.1	100	0	P	H
		15960	46.24	-27.76	74	52.56	36.92	17.45	60.69	100	0	P	H
													H
													H
		10640	49.72	-24.28	74	56.4	40.16	14.26	61.1	100	0	P	V
		15960	46.44	-27.56	74	52.76	36.92	17.45	60.69	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5082.96	53.99	-20.01	74	42.05	31.97	10.4	30.43	100	65	P	H
		5048.62	44.53	-9.47	54	32.72	31.89	10.35	30.43	100	65	A	H
	*	5260	112.33	-	-	100.68	31.48	10.6	30.43	100	65	P	H
	*	5260	104.23	-	-	92.58	31.48	10.6	30.43	100	65	A	H
802.11n		5413.44	52.75	-21.25	74	40.8	31.7	10.68	30.43	100	65	P	H
HT20		5450.4	43.59	-10.41	54	31.6	31.7	10.72	30.43	100	65	A	H
CH 52		5060.52	52.8	-21.2	74	40.95	31.92	10.36	30.43	306	341	P	V
5260MHz		5082.62	44.46	-9.54	54	32.52	31.97	10.4	30.43	306	341	A	V
	*	5260	111.22	-	-	99.57	31.48	10.6	30.43	306	341	P	V
	*	5260	103.61	-	-	91.96	31.48	10.6	30.43	306	341	A	V
		5452.8	50.87	-23.13	74	38.86	31.72	10.72	30.43	306	341	P	V
		5440.08	43.45	-10.55	54	31.47	31.7	10.71	30.43	306	341	A	V
		5053.38	51.83	-22.17	74	40	31.91	10.35	30.43	234	70	P	H
		5108.12	41.27	-12.73	54	29.25	32.02	10.43	30.43	234	70	A	H
	*	5300	111.1	-	-	99.52	31.4	10.61	30.43	234	70	P	H
	*	5300	103.07	-	-	91.49	31.4	10.61	30.43	234	70	A	H
802.11n		5350.08	55.97	-18.03	74	44.36	31.4	10.64	30.43	234	70	P	H
HT20		5350.08	43.45	-10.55	54	31.84	31.4	10.64	30.43	234	70	A	H
CH 60		5088.06	52.15	-21.85	74	40.2	31.98	10.4	30.43	269	338	P	V
5300MHz		5108.46	41.27	-12.73	54	29.25	32.02	10.43	30.43	269	338	A	V
	*	5300	111.07	-	-	99.49	31.4	10.61	30.43	269	338	P	V
	*	5300	103.36	-	-	91.78	31.4	10.61	30.43	269	338	A	V
		5351.76	54.21	-19.79	74	42.59	31.41	10.64	30.43	269	338	P	V
		5357.52	42.39	-11.61	54	30.73	31.45	10.64	30.43	269	338	A	V

	*	5320	112.03	-	-	100.44	31.4	10.62	30.43	100	66	P	H
	*	5320	103.79	-	-	92.2	31.4	10.62	30.43	100	66	A	H
		5350.56	59.42	-14.58	74	47.81	31.4	10.64	30.43	100	66	P	H
		5350.08	50.98	-3.02	54	39.37	31.4	10.64	30.43	100	66	A	H
802.11n													H
HT20													H
CH 64	*	5320	110.16	-	-	98.57	31.4	10.62	30.43	297	347	P	V
5320MHz	*	5320	102.31	-	-	90.72	31.4	10.62	30.43	297	347	A	V
		5350.88	54.25	-19.75	74	42.63	31.41	10.64	30.43	297	347	P	V
		5350.08	45.61	-8.39	54	34	31.4	10.64	30.43	297	347	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	48.76	-19.44	68.2	55.44	40.12	14.3	61.1	100	0	P	H
		15780	47.34	-26.66	74	54.11	37.34	17.45	61.56	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	48.81	-19.39	68.2	55.49	40.12	14.3	61.1	100	0	P	V
5260MHz		15780	47.57	-26.43	74	54.34	37.34	17.45	61.56	100	0	P	V
													V
													V
		10600	48.2	-25.8	74	54.82	40.2	14.28	61.1	100	0	P	H
		15900	46.06	-27.94	74	52.72	36.8	17.52	60.98	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	48.67	-25.33	74	55.29	40.2	14.28	61.1	100	0	P	V
5300MHz		15900	46.32	-27.68	74	52.98	36.8	17.52	60.98	100	0	P	V
													V
													V
		10640	49.87	-24.13	74	56.55	40.16	14.26	61.1	100	0	P	H
		15960	47.08	-26.92	74	53.4	36.92	17.45	60.69	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	49.83	-24.17	74	56.51	40.16	14.26	61.1	100	0	P	V
5320MHz		15960	46.44	-27.56	74	52.76	36.92	17.45	60.69	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5061.54	52.22	-21.78	74	40.37	31.92	10.36	30.43	100	67	P	H
		5100.98	43.25	-10.75	54	31.26	32	10.42	30.43	100	67	A	H
	*	5270	108.91	-	-	97.28	31.46	10.6	30.43	100	67	P	H
	*	5270	100.65	-	-	89.02	31.46	10.6	30.43	100	67	A	H
		5350.08	54.65	-19.35	74	43.04	31.4	10.64	30.43	100	67	P	H
		5350.08	47.23	-6.77	54	35.62	31.4	10.64	30.43	100	67	A	H
		5074.8	52.45	-21.55	74	40.55	31.95	10.38	30.43	302	348	P	V
		5117.3	42.98	-11.02	54	30.93	32.03	10.45	30.43	302	348	A	V
	*	5270	107.39	-	-	95.76	31.46	10.6	30.43	302	348	P	V
	*	5270	99.41	-	-	87.78	31.46	10.6	30.43	302	348	A	V
		5356.56	53.4	-20.6	74	41.75	31.44	10.64	30.43	302	348	P	V
		5350.08	43.81	-10.19	54	32.2	31.4	10.64	30.43	302	348	A	V
802.11n HT40 CH 62 5310MHz		5145.86	52.33	-21.67	74	40.18	32.09	10.49	30.43	100	64	P	H
		5095.54	42.96	-11.04	54	30.99	31.99	10.41	30.43	100	64	A	H
	*	5310	106.59	-	-	95	31.4	10.62	30.43	100	64	P	H
	*	5310	99	-	-	87.41	31.4	10.62	30.43	100	64	A	H
		5352.48	58.17	-15.83	74	46.55	31.41	10.64	30.43	100	64	P	H
		5351.04	50.14	-3.86	54	38.52	31.41	10.64	30.43	100	64	A	H
		5109.48	52.17	-21.83	74	40.15	32.02	10.43	30.43	282	342	P	V
		5096.56	42.95	-11.05	54	30.97	31.99	10.42	30.43	282	342	A	V
	*	5310	104.57	-	-	92.98	31.4	10.62	30.43	282	342	P	V
	*	5310	96.92	-	-	85.33	31.4	10.62	30.43	282	342	A	V
		5350.08	57.94	-16.06	74	46.33	31.4	10.64	30.43	282	342	P	V
		5350.08	48.67	-5.33	54	37.06	31.4	10.64	30.43	282	342	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	49.48	-18.72	68.2	56.14	40.14	14.3	61.1	100	0	P	H
		15810	48.43	-25.57	74	55.12	37.25	17.47	61.41	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	49.06	-19.14	68.2	55.72	40.14	14.3	61.1	100	0	P	V
5270MHz		15810	47.1	-26.9	74	53.79	37.25	17.47	61.41	100	0	P	V
													V
													V
		10620	49.43	-24.57	74	56.08	40.18	14.27	61.1	100	0	P	H
		15930	46.85	-27.15	74	53.34	36.86	17.49	60.84	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	49.6	-24.4	74	56.25	40.18	14.27	61.1	100	0	P	V
5310MHz		15930	46.84	-27.16	74	53.33	36.86	17.49	60.84	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5133.96	52.1	-21.9	74	39.99	32.07	10.47	30.43	100	58	P	H
		5099.28	42.82	-11.18	54	30.83	32	10.42	30.43	100	58	A	H
	*	5290	101.81	-	-	90.21	31.42	10.61	30.43	100	58	P	H
	*	5290	94.09	-	-	82.49	31.42	10.61	30.43	100	58	A	H
		5353.68	58.89	-15.11	74	47.26	31.42	10.64	30.43	100	58	P	H
		5352	50.43	-3.57	54	38.81	31.41	10.64	30.43	100	58	A	H
		5080.24	52.02	-21.98	74	40.1	31.96	10.39	30.43	240	347	P	V
		5126.48	42.93	-11.07	54	30.85	32.05	10.46	30.43	240	347	A	V
	*	5290	100.35	-	-	88.75	31.42	10.61	30.43	240	347	P	V
	*	5290	92.77	-	-	81.17	31.42	10.61	30.43	240	347	A	V
		5353.92	58.05	-15.95	74	46.42	31.42	10.64	30.43	240	347	P	V
		5353.68	49.07	-4.93	54	37.44	31.42	10.64	30.43	240	347	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	49.53	-18.67	68.2	56.16	40.18	14.29	61.1	100	0	P	H
		15870	48.12	-25.88	74	54.78	36.95	17.51	61.12	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	49.06	-19.14	68.2	55.69	40.18	14.29	61.1	100	0	P	V
5290MHz		15870	47.4	-26.6	74	54.06	36.95	17.51	61.12	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5457.52	56.93	-17.07	74	44.88	31.75	10.73	30.43	100	59	P	H
		5469.68	60.57	-7.63	68.2	48.44	31.82	10.74	30.43	100	59	P	H
		5460	45.17	-8.83	54	33.11	31.76	10.73	30.43	100	59	A	H
	*	5500	116.08	-	-	103.73	32	10.78	30.43	100	59	P	H
	*	5500	108.2	-	-	95.85	32	10.78	30.43	100	59	A	H
													H
		5459.76	55.73	-18.27	74	43.67	31.76	10.73	30.43	100	349	P	V
		5469.04	59.07	-9.13	68.2	46.95	31.81	10.74	30.43	100	349	P	V
		5460	44.39	-9.61	54	32.33	31.76	10.73	30.43	100	349	A	V
	*	5500	114.88	-	-	102.53	32	10.78	30.43	100	349	P	V
	*	5500	106.07	-	-	93.72	32	10.78	30.43	100	349	A	V
													V
802.11a CH 116 5580MHz		5369.92	51.76	-22.24	74	40.02	31.52	10.65	30.43	100	60	P	H
		5464.96	50.92	-17.28	68.2	38.82	31.79	10.74	30.43	100	60	P	H
		5459.68	41.79	-12.21	54	29.73	31.76	10.73	30.43	100	60	A	H
	*	5580	117.19	-	-	104.94	31.86	10.87	30.48	100	60	P	H
	*	5580	108.94	-	-	96.69	31.86	10.87	30.48	100	60	A	H
		5747.36	50.42	-17.78	68.2	38.14	32	10.86	30.58	100	60	P	H
		5413.12	52.23	-21.77	74	40.28	31.7	10.68	30.43	100	332	P	V
		5461.6	52.04	-16.16	68.2	39.97	31.77	10.73	30.43	100	332	P	V
		5459.92	41.44	-12.56	54	29.38	31.76	10.73	30.43	100	332	A	V
	*	5580	113.01	-	-	100.76	31.86	10.87	30.48	100	332	P	V
	*	5580	104.89	-	-	92.64	31.86	10.87	30.48	100	332	A	V
		5752.4	52.16	-16.04	68.2	39.88	32.01	10.86	30.59	100	332	P	V

802.11a CH 140 5700MHz	*	5700	115.98	-	-	103.66	32	10.87	30.55	100	59	P	H
	*	5700	107.8	-	-	95.48	32	10.87	30.55	100	59	A	H
		5725	63.85	-4.35	68.2	51.55	32	10.87	30.57	100	59	P	H
													H
													H
													H
	*	5700	113.94	-	-	101.62	32	10.87	30.55	124	333	P	V
	*	5700	105.69	-	-	93.37	32	10.87	30.55	124	333	A	V
		5725.24	64.97	-3.23	68.2	52.67	32	10.87	30.57	124	333	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	49.91	-24.09	74	56.19	40.6	14.22	61.1	100	0	P	H
		16500	47.7	-20.5	68.2	50.52	38.8	17.78	59.4	100	0	P	H
													H
													H
		11000	51.14	-22.86	74	57.42	40.6	14.22	61.1	200	217	P	V
		11000	39.92	-14.08	54	46.2	40.6	14.22	61.1	200	217	A	V
		16500	47.77	-20.43	68.2	50.59	38.8	17.78	59.4	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	51.61	-22.39	74	57.93	40.22	14.5	61.04	120	21	P	H
		11160	39.7	-14.3	54	46.02	40.22	14.5	61.04	120	21	A	H
		16740	51.11	-17.09	68.2	52.19	39.98	18.2	59.26	100	0	P	H
													H
		11160	49.74	-24.26	74	56.06	40.22	14.5	61.04	100	0	P	V
		16740	50.91	-17.29	68.2	51.99	39.98	18.2	59.26	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	49.94	-24.06	74	55.71	40.3	14.87	60.94	100	0	P	H
		17100	51.26	-16.94	68.2	50.93	40.8	18.51	58.98	100	0	P	H
													H
													H
		11400	51.67	-22.33	74	57.44	40.3	14.87	60.94	125	22	P	V
		11400	40.67	-13.33	54	46.44	40.3	14.87	60.94	125	22	A	V
		17092.8	51.24	-16.96	68.2	50.94	40.79	18.5	58.99	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.28	57.45	-16.55	74	45.39	31.76	10.73	30.43	100	61	P	H
		5468.24	59.93	-8.27	68.2	47.81	31.81	10.74	30.43	100	61	P	H
		5460	45.34	-8.66	54	33.28	31.76	10.73	30.43	100	61	A	H
	*	5500	115.36	-	-	103.01	32	10.78	30.43	100	61	P	H
802.11n	*	5500	106.84	-	-	94.49	32	10.78	30.43	100	61	A	H
HT20													H
CH 100		5458.32	55.52	-18.48	74	43.47	31.75	10.73	30.43	280	360	P	V
5500MHz		5467.92	57.76	-10.44	68.2	45.64	31.81	10.74	30.43	280	360	P	V
		5460	44.28	-9.72	54	32.22	31.76	10.73	30.43	280	360	A	V
	*	5500	115.11	-	-	102.76	32	10.78	30.43	280	360	P	V
	*	5500	106.75	-	-	94.4	32	10.78	30.43	280	360	A	V
													V
		5430.4	52.49	-21.51	74	40.52	31.7	10.7	30.43	100	60	P	H
		5464.48	51.11	-17.09	68.2	39.01	31.79	10.74	30.43	100	60	P	H
		5459.92	41.77	-12.23	54	29.71	31.76	10.73	30.43	100	60	A	H
	*	5580	115.97	-	-	103.72	31.86	10.87	30.48	100	60	P	H
802.11n	*	5580	107.14	-	-	94.89	31.86	10.87	30.48	100	60	A	H
HT20		5743.265	51.41	-16.79	68.2	39.13	32	10.86	30.58	100	60	P	H
CH 116		5391.76	52.29	-21.71	74	40.41	31.65	10.66	30.43	276	360	P	V
5580MHz		5469.52	51.51	-16.69	68.2	39.38	31.82	10.74	30.43	276	360	P	V
		5459.44	41.52	-12.48	54	29.46	31.76	10.73	30.43	276	360	A	V
	*	5580	115.23	-	-	102.98	31.86	10.87	30.48	276	360	P	V
	*	5580	106.87	-	-	94.62	31.86	10.87	30.48	276	360	A	V
		5751.77	50.49	-17.71	68.2	38.21	32.01	10.86	30.59	276	360	P	V

	*	5700	113.69	-	-	101.37	32	10.87	30.55	100	59	P	H
	*	5700	105.83	-	-	93.51	32	10.87	30.55	100	59	A	H
		5725.24	65.03	-3.17	68.2	52.73	32	10.87	30.57	100	59	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	112.19	-	-	99.87	32	10.87	30.55	269	360	P	V
5700MHz	*	5700	104.54	-	-	92.22	32	10.87	30.55	269	360	A	V
		5725.48	60.45	-7.75	68.2	48.15	32	10.87	30.57	269	360	P	V
													V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	49.96	-24.04	74	56.24	40.6	14.22	61.1	100	0	P	H
		16500	48.6	-19.6	68.2	51.42	38.8	17.78	59.4	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	49.86	-24.14	74	56.14	40.6	14.22	61.1	100	0	P	V
5500MHz		16500	48.9	-19.3	68.2	51.72	38.8	17.78	59.4	100	0	P	V
													V
													V
		11170	49.96	-24.04	74	56.27	40.19	14.53	61.03	100	0	P	H
		16740	50.71	-17.49	68.2	51.79	39.98	18.2	59.26	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	49.76	-24.24	74	56.08	40.22	14.5	61.04	100	0	P	V
5580MHz		16740	50.69	-17.51	68.2	51.77	39.98	18.2	59.26	100	0	P	V
													V
													V
		11400	51.59	-22.41	74	57.36	40.3	14.87	60.94	100	101	P	H
		11400	41.22	-12.78	54	46.99	40.3	14.87	60.94	100	101	A	H
802.11n		17100	51.5	-16.7	68.2	51.17	40.8	18.51	58.98	100	0	P	H
HT20													H
CH 140		11400	51.56	-22.44	74	57.33	40.3	14.87	60.94	129	297	P	V
5700MHz		11400	41.21	-12.79	54	46.98	40.3	14.87	60.94	129	297	A	V
		17100	51.02	-17.18	68.2	50.69	40.8	18.51	58.98	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.54	55.33	-18.67	74	43.28	31.75	10.73	30.43	106	61	P	H
		5469.07	62.69	-5.51	68.2	50.57	31.81	10.74	30.43	106	61	P	H
		5458.81	46.29	-7.71	54	34.24	31.75	10.73	30.43	106	61	A	H
	*	5510	111.08	-	-	98.77	31.96	10.79	30.44	106	61	P	H
802.11n	*	5510	103.34	-	-	91.03	31.96	10.79	30.44	106	61	A	H
HT40		5760.905	52.38	-15.82	68.2	40.07	32.04	10.86	30.59	106	61	P	H
CH 102		5458.27	54.58	-19.42	74	42.53	31.75	10.73	30.43	294	358	P	V
5510MHz		5469.07	60.9	-7.3	68.2	48.78	31.81	10.74	30.43	294	358	P	V
		5451.52	44.98	-9.02	54	32.98	31.71	10.72	30.43	294	358	A	V
	*	5510	109.75	-	-	97.44	31.96	10.79	30.44	294	358	P	V
	*	5510	102.2	-	-	89.89	31.96	10.79	30.44	294	358	A	V
		5735.39	50.49	-17.71	68.2	38.2	32	10.87	30.58	294	358	P	V
		5459.89	53.91	-20.09	74	41.85	31.76	10.73	30.43	100	64	P	H
		5463.94	53.93	-14.27	68.2	41.84	31.78	10.74	30.43	100	64	P	H
		5459.89	44.08	-9.92	54	32.02	31.76	10.73	30.43	100	64	A	H
	*	5550	112.25	-	-	100.07	31.8	10.84	30.46	100	64	P	H
802.11n	*	5550	104.38	-	-	92.2	31.8	10.84	30.46	100	64	A	H
HT40		5726.57	51.11	-17.09	68.2	38.81	32	10.87	30.57	100	64	P	H
CH 110		5458.54	52.99	-21.01	74	40.94	31.75	10.73	30.43	169	350	P	V
5550MHz		5469.88	52.75	-15.45	68.2	40.62	31.82	10.74	30.43	169	350	P	V
		5459.35	43.55	-10.45	54	31.49	31.76	10.73	30.43	169	350	A	V
	*	5550	111.83	-	-	99.65	31.8	10.84	30.46	169	350	P	V
	*	5550	104.09	-	-	91.91	31.8	10.84	30.46	169	350	A	V
		5739.17	52.49	-15.71	68.2	40.21	32	10.86	30.58	100	0	P	V

		5458.41	51.72	-22.28	74	39.67	31.75	10.73	30.43	231	63	P	H
		5467.66	50.73	-17.47	68.2	38.61	31.81	10.74	30.43	231	63	P	H
		5426.22	42.84	-11.16	54	30.88	31.7	10.69	30.43	231	63	A	H
	*	5670	111.83	-	-	99.61	31.88	10.88	30.54	231	63	P	H
802.11n	*	5670	103.76	-	-	91.54	31.88	10.88	30.54	231	63	A	H
HT40		5736.3	57.96	-10.24	68.2	45.67	32	10.87	30.58	231	63	P	H
CH 134		5380.71	51.64	-22.36	74	39.84	31.58	10.65	30.43	218	352	P	V
5670MHz		5463.59	51.89	-16.31	68.2	39.8	31.78	10.74	30.43	218	352	P	V
		5390.7	42.73	-11.27	54	30.86	31.64	10.66	30.43	218	352	A	V
	*	5670	110.56	-	-	98.34	31.88	10.88	30.54	218	352	P	V
	*	5670	103.11	-	-	90.89	31.88	10.88	30.54	218	352	A	V
		5728.25	57.05	-11.15	68.2	44.75	32	10.87	30.57	218	352	P	V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	51.22	-22.78	74	57.5	40.56	14.25	61.09	100	108	P	H
		11020	41.56	-12.44	54	47.84	40.56	14.25	61.09	100	108	A	H
802.11n		16530	48.72	-19.48	68.2	51.44	38.83	17.83	59.38	100	0	P	H
HT40													H
CH 102		11020	51.71	-22.29	74	57.99	40.56	14.25	61.09	100	295	P	V
5510MHz		11020	41.11	-12.89	54	47.39	40.56	14.25	61.09	100	295	A	V
		16525.8	48.33	-19.87	68.2	51.05	38.83	17.83	59.38	100	0	P	V
													V
		11100	49.94	-24.06	74	56.27	40.4	14.33	61.06	100	0	P	H
		16650	49.21	-18.99	68.2	51.14	39.3	18.08	59.31	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	49.71	-24.29	74	56.04	40.4	14.33	61.06	100	0	P	V
5550MHz		16650	49.05	-19.15	68.2	50.98	39.3	18.08	59.31	100	0	P	V
													V
													V
		11340	49.95	-24.05	74	55.85	40.18	14.88	60.96	100	0	P	H
		17010	50.49	-17.71	68.2	50.53	40.62	18.43	59.09	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	52.03	-21.97	74	57.93	40.18	14.88	60.96	100	286	P	V
5670MHz		11340	41.13	-12.87	54	47.03	40.18	14.88	60.96	100	286	A	V
		17010	51.38	-16.82	68.2	51.42	40.62	18.43	59.09	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.27	58.77	-15.23	74	46.72	31.75	10.73	30.43	100	66	P	H
		5462.59	61.19	-7.01	68.2	49.11	31.78	10.73	30.43	100	66	P	H
		5458.54	50.37	-3.63	54	38.32	31.75	10.73	30.43	100	66	A	H
	*	5530	106.43	-	-	94.19	31.88	10.81	30.45	100	66	P	H
802.11ac	*	5530	98.87	-	-	86.63	31.88	10.81	30.45	100	66	A	H
VHT80		5752.4	52.53	-15.67	68.2	40.25	32.01	10.86	30.59	100	66	P	H
CH 106		5453.41	57.21	-16.79	74	45.2	31.72	10.72	30.43	241	349	P	V
5530MHz		5466.1	57.55	-10.65	68.2	45.44	31.8	10.74	30.43	241	349	P	V
		5455.84	48.9	-5.1	54	36.86	31.74	10.73	30.43	241	349	A	V
	*	5530	104.54	-	-	92.3	31.88	10.81	30.45	241	349	P	V
	*	5530	97.07	-	-	84.83	31.88	10.81	30.45	241	349	A	V
		5745.47	51.55	-16.65	68.2	39.27	32	10.86	30.58	241	349	P	V
		5454.22	52.51	-21.49	74	40.49	31.73	10.72	30.43	100	65	P	H
		5462.05	54.07	-14.13	68.2	42	31.77	10.73	30.43	100	65	P	H
		5458.27	43.26	-10.74	54	31.21	31.75	10.73	30.43	100	65	A	H
	*	5610	107.02	-	-	94.75	31.88	10.89	30.5	100	65	P	H
802.11ac	*	5610	99.82	-	-	87.55	31.88	10.89	30.5	100	65	P	H
VHT80		5742.32	52.82	-15.38	68.2	40.54	32	10.86	30.58	100	65	P	H
CH 122		5430.73	51.67	-22.33	74	39.7	31.7	10.7	30.43	235	347	P	V
5610MHz		5465.29	52.17	-16.03	68.2	40.07	31.79	10.74	30.43	235	347	P	V
		5459.35	42.74	-11.26	54	30.68	31.76	10.73	30.43	235	347	A	V
	*	5610	106.92	-	-	94.65	31.88	10.89	30.5	235	347	P	V
	*	5610	99.25	-	-	86.98	31.88	10.89	30.5	235	347	A	V
		5736.965	52.52	-15.68	68.2	40.23	32	10.87	30.58	235	347	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	49.85	-24.15	74	56.16	40.48	14.29	61.08	100	0	P	H
		16590	48.85	-19.35	68.2	51.36	38.89	17.95	59.35	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	49.96	-24.04	74	56.27	40.48	14.29	61.08	100	0	P	V
5530MHz		16590	49.31	-18.89	68.2	51.82	38.89	17.95	59.35	100	0	P	V
													V
													V
		11220	48.9	-25.1	74	55.14	40.1	14.67	61.01	100	0	P	H
		16830	52.05	-16.15	68.2	52.65	40.34	18.26	59.2	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	49.95	-24.05	74	56.19	40.1	14.67	61.01	100	0	P	V
5610MHz		16830	51.19	-17.01	68.2	51.79	40.34	18.26	59.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5421.37	51.81	-22.19	74	39.85	31.7	10.69	30.43	212	65	P	H
		5468.95	50.54	-17.66	68.2	38.42	31.81	10.74	30.43	212	65	P	H
		5452.96	41.3	-12.7	54	29.29	31.72	10.72	30.43	212	65	A	H
	*	5720	116.14	-	-	103.84	32	10.87	30.57	212	65	P	H
	*	5720	108.75	-	-	96.45	32	10.87	30.57	212	65	A	H
		5925.5	53.55	-14.65	68.2	40.62	32.45	11.17	30.69	212	65	P	H
		5373.4	50.93	-23.07	74	39.17	31.54	10.65	30.43	247	334	P	V
		5468.95	50.03	-18.17	68.2	37.91	31.81	10.74	30.43	247	334	P	V
		5459.2	41.27	-12.73	54	29.21	31.76	10.73	30.43	247	334	A	V
	*	5720	115.16	-	-	102.86	32	10.87	30.57	247	334	P	V
	*	5720	106.6	-	-	94.3	32	10.87	30.57	247	334	A	V
		5869.75	52.79	-15.41	68.2	40.14	32.28	11.03	30.66	247	334	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	49.32	-24.68	74	55	40.38	14.86	60.92	100	0	P	H
		17160	51.03	-17.17	68.2	50.56	40.8	18.58	58.91	100	0	P	H
													H
													H
		11440	48.53	-25.47	74	54.21	40.38	14.86	60.92	100	0	P	V
		17160	51.82	-16.38	68.2	51.35	40.8	18.58	58.91	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		5398.36	50.97	-23.03	74	39.05	31.69	10.66	30.43	219	34	P	H
		5460.37	51.27	-16.93	68.2	39.21	31.76	10.73	30.43	219	34	P	H
		5459.98	42.24	-11.76	54	30.18	31.76	10.73	30.43	219	34	A	H
	*	5720	116.15	-	-	103.85	32	10.87	30.57	219	34	P	H
	*	5720	107.99	-	-	95.69	32	10.87	30.57	219	34	A	H
		5944	53.1	-15.1	68.2	40.11	32.49	11.21	30.71	219	34	P	H
		5365.6	51.46	-22.54	74	39.75	31.49	10.65	30.43	230	334	P	V
		5465.83	51.12	-17.08	68.2	39.02	31.79	10.74	30.43	230	334	P	V
		5406.16	42.14	-11.86	54	30.2	31.7	10.67	30.43	230	334	A	V
	*	5720	114.36	-	-	102.06	32	10.87	30.57	230	334	P	V
	*	5720	106.21	-	-	93.91	32	10.87	30.57	230	334	A	V
		5915.25	53.2	-15	68.2	40.32	32.43	11.14	30.69	230	334	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	48.46	-25.54	74	54.14	40.38	14.86	60.92	100	0	P	H
		17160	51.39	-16.81	68.2	50.92	40.8	18.58	58.91	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	49.41	-24.59	74	55.09	40.38	14.86	60.92	100	0	P	V
5720MHz		17160	50.78	-17.42	68.2	50.31	40.8	18.58	58.91	100	0	P	V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		5374.96	51.74	-22.26	74	39.97	31.55	10.65	30.43	259	73	P	H
		5464.27	50.98	-17.22	68.2	38.88	31.79	10.74	30.43	259	73	P	H
		5401.48	42.8	-11.2	54	30.87	31.7	10.66	30.43	259	73	A	H
	*	5710	112.27	-	-	99.96	32	10.87	30.56	259	73	P	H
	*	5710	104.51	-	-	92.2	32	10.87	30.56	259	73	A	H
		5922.25	52.77	-15.43	68.2	39.86	32.44	11.16	30.69	259	73	P	H
		5391.73	51.69	-22.31	74	39.81	31.65	10.66	30.43	234	334	P	V
		5467	51.07	-17.13	68.2	38.96	31.8	10.74	30.43	234	334	P	V
		5444.38	42.83	-11.17	54	30.85	31.7	10.71	30.43	234	334	A	V
	*	5710	111.96	-	-	99.65	32	10.87	30.56	234	334	P	V
	*	5710	104.55	-	-	92.24	32	10.87	30.56	234	334	A	V
		5945	53.12	-15.08	68.2	40.13	32.49	11.21	30.71	234	334	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	49.33	-24.67	74	55.05	40.34	14.87	60.93	100	0	P	H
		17130	50.65	-17.55	68.2	50.25	40.8	18.54	58.94	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	49.73	-24.27	74	55.45	40.34	14.87	60.93	100	0	P	V
5710MHz		17130	51.95	-16.25	68.2	51.55	40.8	18.54	58.94	100	0	P	V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5408.5	51.52	-22.48	74	39.58	31.7	10.67	30.43	249	334	P	V
		5461.54	50.75	-17.45	68.2	38.68	31.77	10.73	30.43	249	334	P	V
		5452.96	43.06	-10.94	54	31.05	31.72	10.72	30.43	249	334	A	V
	*	5690	108.42	-	-	96.13	31.96	10.88	30.55	249	334	P	V
802.11ac	*	5690	100.36	-	-	88.07	31.96	10.88	30.55	249	334	A	V
VHT80		5926	54.01	-14.19	68.2	41.08	32.45	11.17	30.69	249	334	P	V
CH 138		5456.86	52.33	-21.67	74	40.29	31.74	10.73	30.43	242	75	P	H
5690MHz		5462.71	50.84	-17.36	68.2	38.76	31.78	10.73	30.43	242	75	P	H
		5452.96	42.92	-11.08	54	30.91	31.72	10.72	30.43	242	75	A	H
	*	5690	108.19	-	-	95.9	31.96	10.88	30.55	242	75	P	H
	*	5690	99.87	-	-	87.58	31.96	10.88	30.55	242	75	A	H
		5888.2	52.63	-15.57	68.2	39.88	32.35	11.07	30.67	242	75	P	H
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	48.81	-25.19	74	54.62	40.26	14.88	60.95	100	0	P	H
		17070	51.38	-16.82	68.2	51.18	40.74	18.48	59.02	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	49.09	-24.91	74	54.9	40.26	14.88	60.95	100	0	P	V
5690MHz		17070	50.46	-17.74	68.2	50.26	40.74	18.48	59.02	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30	20.45	-19.55	40	29.68	22.45	0.65	32.33	-	-	P	H
		72.68	22.05	-17.95	40	40.77	12.74	1.12	32.58	-	-	P	H
		88.2	22.36	-21.14	43.5	38.82	14.68	1.24	32.38	-	-	P	H
		162.89	21.76	-21.74	43.5	35.9	16.49	1.78	32.41	-	-	P	H
		721.61	39.03	-6.97	46	40.77	26.95	3.73	32.42	100	0	P	H
		914.64	38	-8	46	36.54	28.87	4.32	31.73	-	-	P	H
													H
													H
													H
													H
													H
													H
		37.76	22.58	-17.42	40	33.68	20.51	0.73	32.34	-	-	P	V
		72.68	22.75	-17.25	40	41.47	12.74	1.12	32.58	-	-	P	V
		101.78	21.27	-22.23	43.5	35.88	16.37	1.3	32.28	-	-	P	V
		261.83	20.94	-25.06	46	31.51	19.63	2.24	32.44	-	-	P	V
		715.79	39.25	-6.75	46	41.28	26.67	3.72	32.42	100	0	P	V
		914.64	36.9	-9.1	46	35.44	28.87	4.32	31.73	-	-	P	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	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
4+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5150	61.28	-12.72	74	49.12	32.1	10.49	30.43	100	317	P	H
		5150	49.84	-4.16	54	37.68	32.1	10.49	30.43	100	317	A	H
	*	5180	110.49	-	-	98.46	31.92	10.54	30.43	100	317	P	H
	*	5180	102.3	-	-	90.27	31.92	10.54	30.43	100	317	A	H
802.11ac													H
VHT20													H
CH 36		5149.76	56.89	-17.11	74	44.73	32.1	10.49	30.43	100	69	P	V
5180MHz		5147.94	47.96	-6.04	54	35.8	32.1	10.49	30.43	100	69	A	V
	*	5180	105.5	-	-	93.47	31.92	10.54	30.43	100	69	P	V
	*	5180	98.05	-	-	86.02	31.92	10.54	30.43	100	69	A	V
													V
													V
		5036.92	52.3	-21.7	74	40.55	31.85	10.33	30.43	100	316	P	H
		5149.5	43.59	-10.41	54	31.43	32.1	10.49	30.43	100	316	A	H
	*	5220	111.2	-	-	99.37	31.68	10.58	30.43	100	316	P	H
	*	5220	103.86	-	-	92.03	31.68	10.58	30.43	100	316	A	H
802.11ac		5359.76	52.33	-21.67	74	40.66	31.46	10.64	30.43	100	316	P	H
VHT20		5458.88	43.36	-10.64	54	31.31	31.75	10.73	30.43	100	316	A	H
CH 44		5100.1	52.21	-21.79	74	40.22	32	10.42	30.43	100	69	P	V
5220MHz		5110.24	43.22	-10.78	54	31.19	32.02	10.44	30.43	100	69	A	V
	*	5220	106.58	-	-	94.75	31.68	10.58	30.43	100	69	P	V
	*	5220	98.82	-	-	86.99	31.68	10.58	30.43	100	69	A	V
		5366.76	52.53	-21.47	74	40.81	31.5	10.65	30.43	100	69	P	V
		5431.16	43.18	-10.82	54	31.21	31.7	10.7	30.43	100	69	A	V

		5088.4	52.55	-21.45	74	40.6	31.98	10.4	30.43	100	316	P	H
		5133.38	43.32	-10.68	54	31.21	32.07	10.47	30.43	100	316	A	H
	*	5240	111.71	-	-	99.99	31.56	10.59	30.43	100	316	P	H
	*	5240	103.57	-	-	91.85	31.56	10.59	30.43	100	316	A	H
802.11ac		5356.96	54.33	-19.67	74	42.68	31.44	10.64	30.43	100	316	P	H
VHT20		5382.72	43.37	-10.63	54	31.55	31.6	10.65	30.43	100	316	A	H
CH 48		5051.74	52.09	-21.91	74	40.27	31.9	10.35	30.43	102	57	P	V
5240MHz		5090.74	43.27	-10.73	54	31.31	31.98	10.41	30.43	102	57	A	V
	*	5240	103.27	-	-	91.55	31.56	10.59	30.43	102	57	P	V
	*	5240	95.63	-	-	83.91	31.56	10.59	30.43	102	57	A	V
		5384.12	52.22	-21.78	74	40.4	31.6	10.65	30.43	102	57	P	V
		5412.4	43.39	-10.61	54	31.44	31.7	10.68	30.43	102	57	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	48.79	-19.41	68.2	55.53	39.9	14.26	60.9	100	0	P	H
		15540	47.73	-26.27	74	55.15	38	17.29	62.71	100	0	P	H
802.11ac													H
VHT20													H
CH 36		10360	48.36	-19.84	68.2	55.1	39.9	14.26	60.9	100	0	P	V
5180MHz		15540	48.39	-25.61	74	55.81	38	17.29	62.71	100	0	P	V
													V
													V
		10440	48.76	-19.44	68.2	55.38	40.1	14.3	61.02	100	0	P	H
		15660	48.07	-25.93	74	55.23	37.58	17.39	62.13	100	0	P	H
802.11ac													H
VHT20													H
CH 44		10440	48.36	-19.84	68.2	54.98	40.1	14.3	61.02	100	0	P	V
5220MHz		15660	47.95	-26.05	74	55.11	37.58	17.39	62.13	100	0	P	V
													V
													V
		10480	48.99	-19.21	68.2	55.65	40.1	14.31	61.07	100	0	P	H
		15720	47.54	-26.46	74	54.5	37.46	17.42	61.84	100	0	P	H
802.11ac													H
VHT20													H
CH 48		10480	48.11	-20.09	68.2	54.77	40.1	14.31	61.07	100	0	P	V
5240MHz		15720	48.49	-25.51	74	55.45	37.46	17.42	61.84	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. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.98	54.27	-19.73	74	42.11	32.1	10.49	30.43	262	63	P	H
		5149.76	46.46	-7.54	54	34.3	32.1	10.49	30.43	262	63	A	H
	*	5190	99.49	-	-	87.51	31.86	10.55	30.43	262	63	P	H
	*	5190	92.94	-	-	80.96	31.86	10.55	30.43	262	63	A	H
802.11ac		5411	50.65	-23.35	74	38.71	31.7	10.67	30.43	262	63	P	H
VHT40		5452.72	42.4	-11.6	54	30.39	31.72	10.72	30.43	262	63	A	H
CH 38		5149.76	54.33	-19.67	74	42.17	32.1	10.49	30.43	203	283	P	V
5190MHz		5149.76	45.45	-8.55	54	33.29	32.1	10.49	30.43	203	283	A	V
	*	5190	96.92	-	-	84.94	31.86	10.55	30.43	203	283	P	V
	*	5190	90.04	-	-	78.06	31.86	10.55	30.43	203	283	A	V
		5428.64	50.19	-23.81	74	38.23	31.7	10.69	30.43	203	283	P	V
		5398.96	42.54	-11.46	54	30.62	31.69	10.66	30.43	203	283	A	V
		5129.22	52.82	-21.18	74	40.73	32.06	10.46	30.43	200	64	P	H
		5149.5	44.36	-9.64	54	32.2	32.1	10.49	30.43	200	64	A	H
	*	5230	110.59	-	-	98.82	31.62	10.58	30.43	200	64	P	H
	*	5230	103.99	-	-	92.22	31.62	10.58	30.43	200	64	A	H
802.11ac		5390.28	53.24	-20.76	74	41.37	31.64	10.66	30.43	200	64	P	H
VHT40		5350.24	43.73	-10.27	54	32.12	31.4	10.64	30.43	200	64	A	H
CH 46		5141.96	53.67	-20.33	74	41.54	32.08	10.48	30.43	345	334	P	V
5230MHz		5146.64	43.82	-10.18	54	31.67	32.09	10.49	30.43	345	334	A	V
	*	5230	107.76	-	-	95.99	31.62	10.58	30.43	345	334	P	V
	*	5230	100.57	-	-	88.8	31.62	10.58	30.43	345	334	A	V
		5403.16	51.82	-22.18	74	39.89	31.7	10.66	30.43	345	334	P	V
		5440.12	42.92	-11.08	54	30.94	31.7	10.71	30.43	345	334	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	48.57	-19.63	68.2	55.23	40	14.27	60.93	100	0	P	H
		15570	48.07	-25.93	74	55.46	37.85	17.32	62.56	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	48.74	-19.46	68.2	55.4	40	14.27	60.93	100	0	P	V
5190MHz		15570	47.97	-26.03	74	55.36	37.85	17.32	62.56	100	0	P	V
													V
													V
		10460	48.66	-19.54	68.2	55.3	40.1	14.3	61.04	100	0	P	H
		15690	48.53	-25.47	74	55.59	37.52	17.41	61.99	100	0	P	H
802.11ac													H
VHT40													H
CH 46		10460	47.91	-20.29	68.2	54.55	40.1	14.3	61.04	100	0	P	V
5230MHz		15690	48.17	-25.83	74	55.23	37.52	17.41	61.99	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5104.78	52.57	-21.43	74	40.56	32.01	10.43	30.43	226	67	P	H
		5146.12	46.04	-7.96	54	33.89	32.09	10.49	30.43	226	67	A	H
	*	5210	99.13	-	-	87.25	31.74	10.57	30.43	226	67	P	H
	*	5210	92.55	-	-	80.67	31.74	10.57	30.43	226	67	A	H
		5410.16	50.84	-23.16	74	38.9	31.7	10.67	30.43	226	67	P	H
		5452.72	42.98	-11.02	54	30.97	31.72	10.72	30.43	226	67	A	H
		5134.16	51.31	-22.69	74	39.2	32.07	10.47	30.43	205	284	P	V
		5144.56	45.15	-8.85	54	33	32.09	10.49	30.43	205	284	A	V
	*	5210	95.92	-	-	84.04	31.74	10.57	30.43	205	284	P	V
	*	5210	89.54	-	-	77.66	31.74	10.57	30.43	205	284	A	V
		5411.56	50.62	-23.38	74	38.68	31.7	10.67	30.43	205	284	P	V
		5458.6	42.5	-11.5	54	30.45	31.75	10.73	30.43	205	284	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. 4+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	48.66	-19.54	68.2	55.27	40.1	14.28	60.99	100	0	P	H
		15630	47.35	-26.65	74	54.63	37.64	17.36	62.28	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	48.34	-19.86	68.2	54.95	40.1	14.28	60.99	100	0	P	V
5210MHz		15630	46.9	-27.1	74	54.18	37.64	17.36	62.28	100	0	P	V
													V
													V

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

Emission below 1GHz

WIFI 802.11n 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.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n VHT20 LF		66.86	26.25	-13.75	40	44.91	12.39	1.05	32.1	-	-	P	H
		87.23	29.26	-10.74	40	45.88	14.53	1.24	32.39	100	0	P	H
		110.51	31.63	-11.87	43.5	45.57	17.06	1.35	32.35	-	-	P	H
		167.74	28.95	-14.55	43.5	43.5	16.04	1.81	32.4	-	-	P	H
		237.58	27.1	-18.9	46	40.63	16.72	2.15	32.4	-	-	P	H
		366.59	30.36	-15.64	46	39.56	20.56	2.58	32.34	-	-	P	H
													H
													H
													H
													H
													H
													H
		38.73	33.26	-6.74	40	44.86	20	0.74	32.34	100	0	P	V
		116.33	28.34	-15.16	43.5	41.87	17.49	1.38	32.4	-	-	P	V
		201.69	30.95	-12.55	43.5	46.33	15.03	1.97	32.38	-	-	P	V
		351.07	30.25	-15.75	46	39.99	20.17	2.52	32.43	-	-	P	V
		362.71	30.45	-15.55	46	39.73	20.52	2.56	32.36	-	-	P	V
		898.15	35.5	-10.5	46	34.6	28.57	4.28	31.95	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	**Temperature :**	21.4~22.9°C
		Relative Humidity :	52~61%

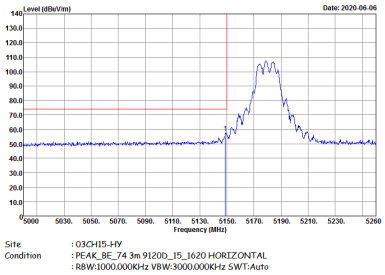
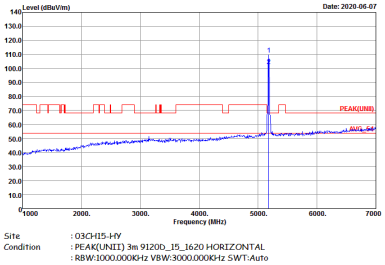
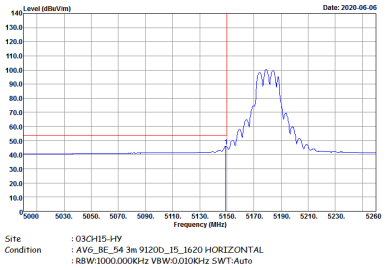
Note symbol

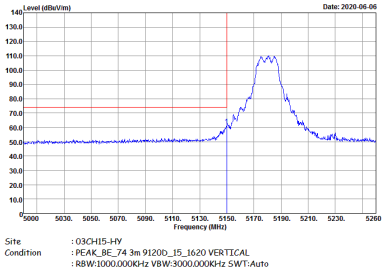
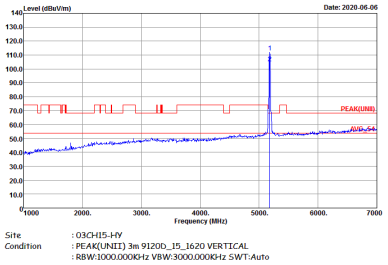
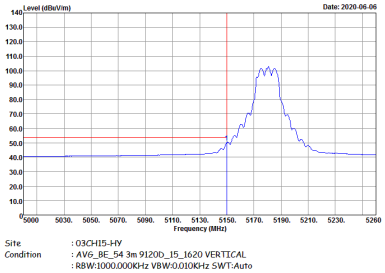
-L	**Low channel location**
-R	**High channel location**

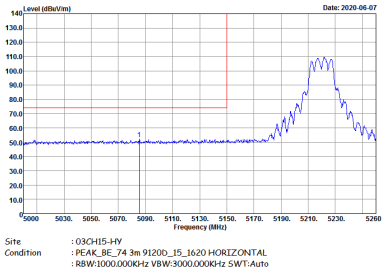
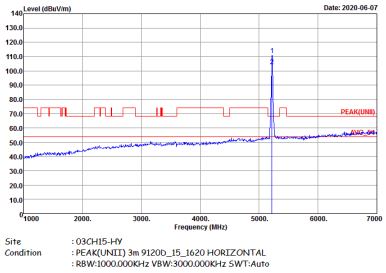
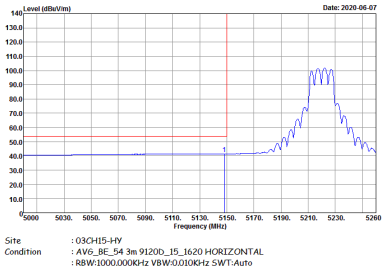
<CDD Mode>

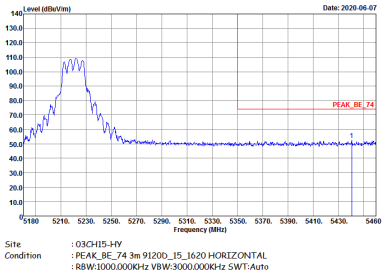
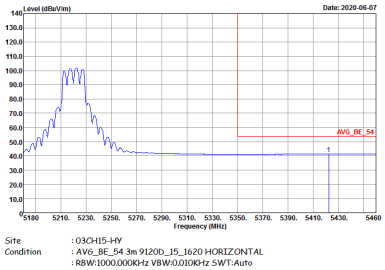
Band 1 - 5150~5250MHz

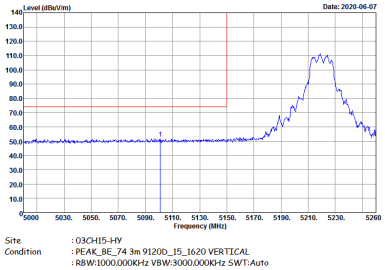
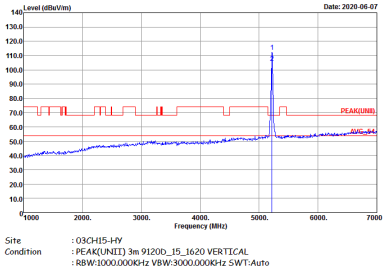
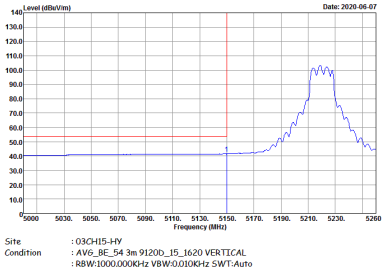
WIFI 802.11a (Band Edge @ 3m)

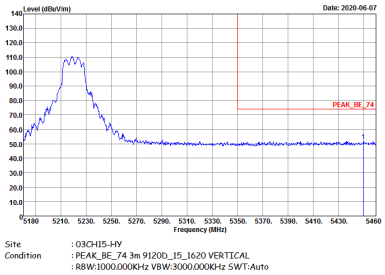
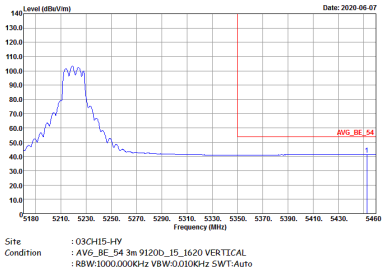
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

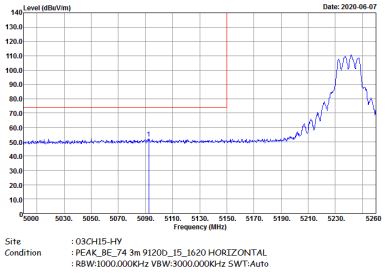
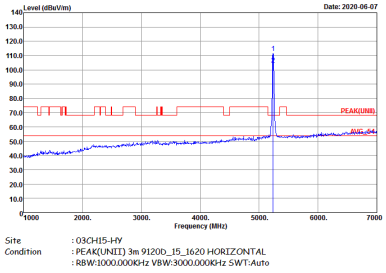
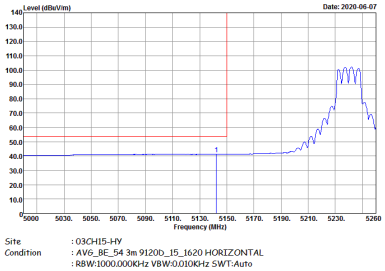
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

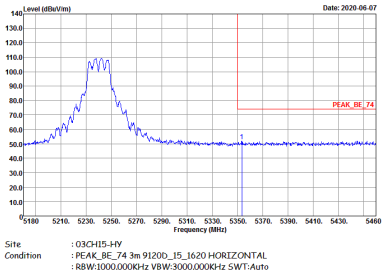
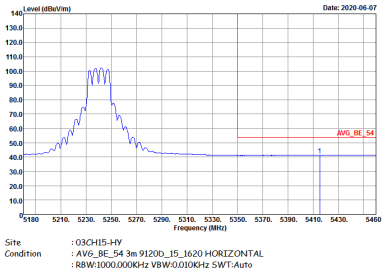
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

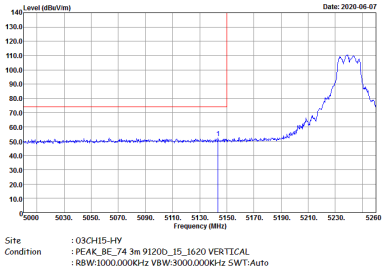
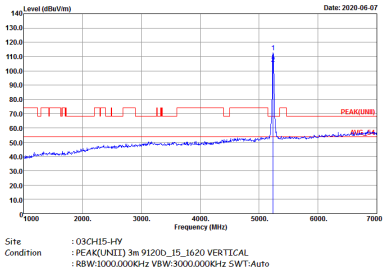
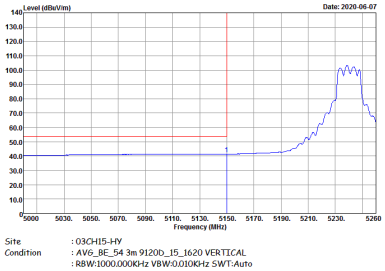
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

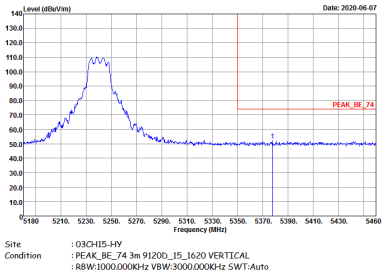
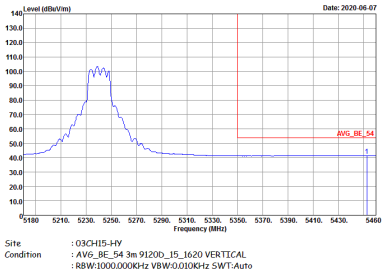
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

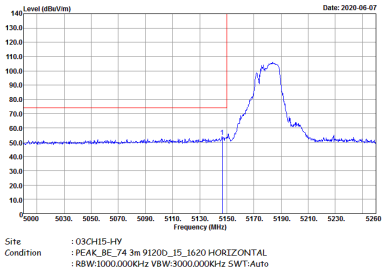
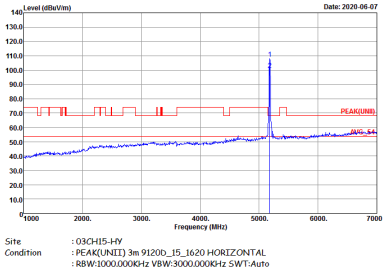
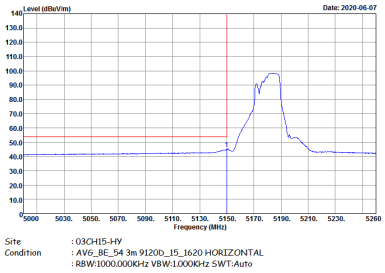
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

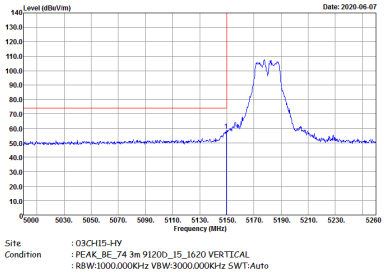
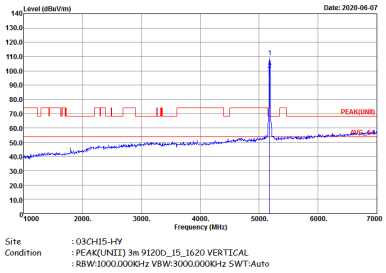
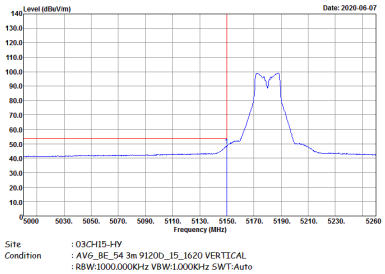
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

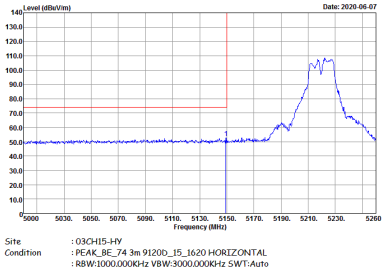
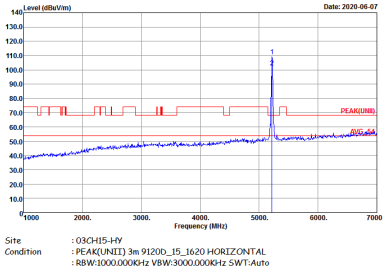
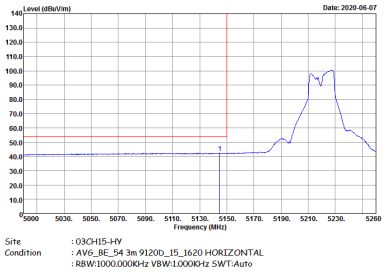
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

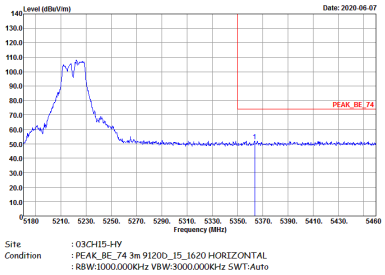
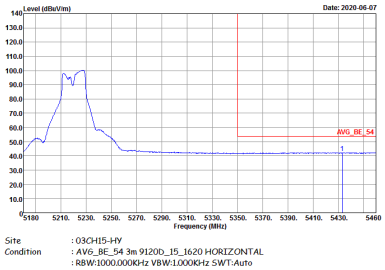
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

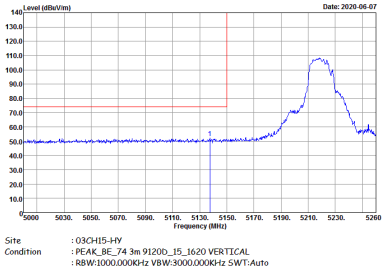
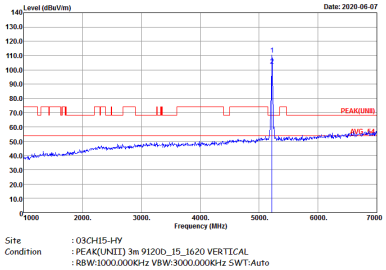
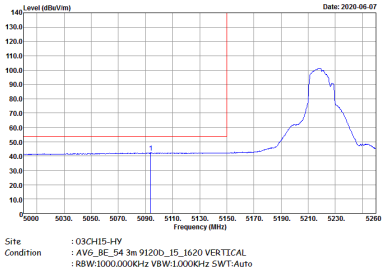
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

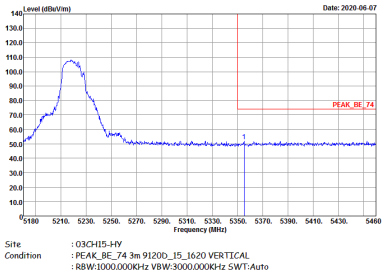
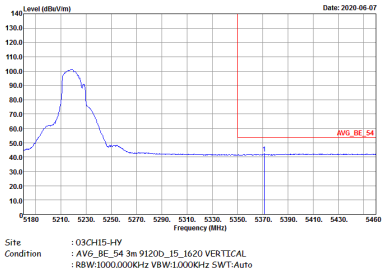
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

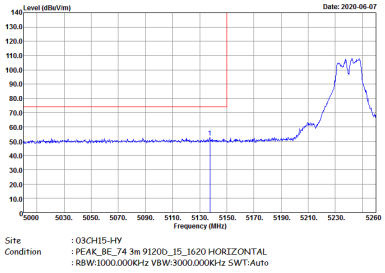
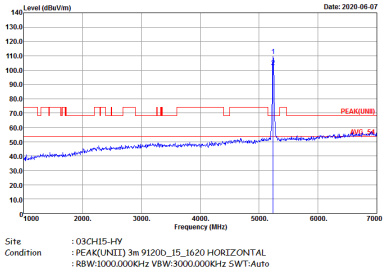
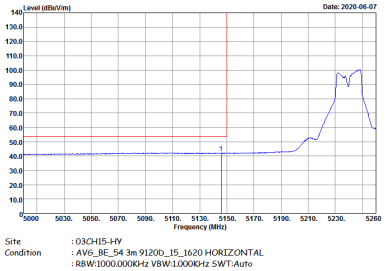
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

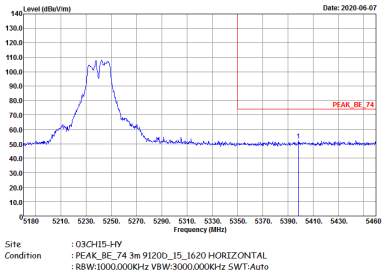
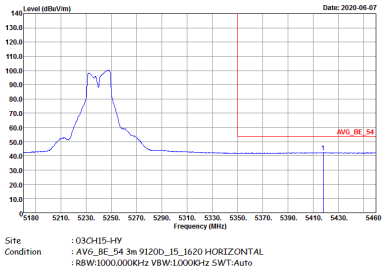
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

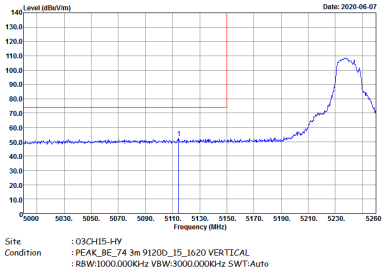
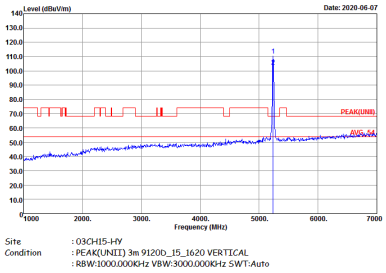
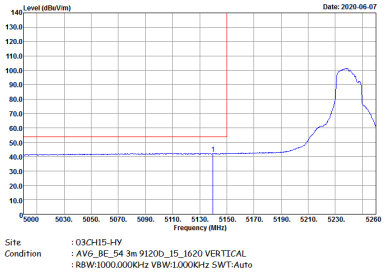
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

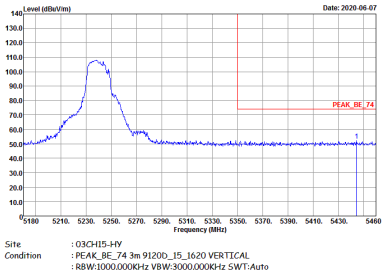
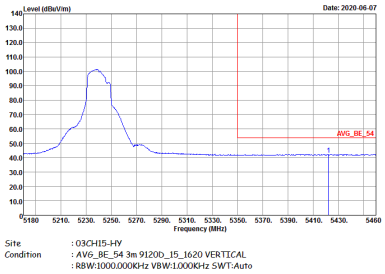
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

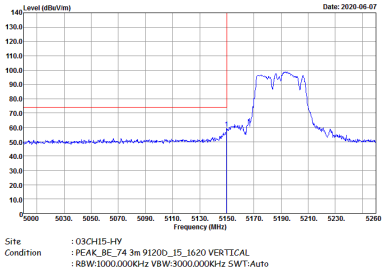
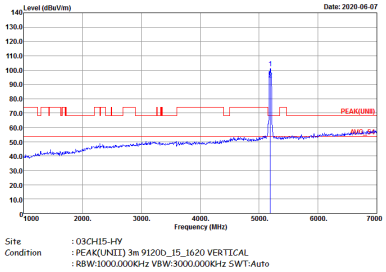
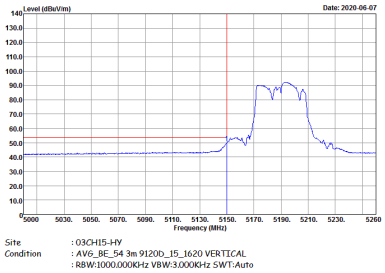
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

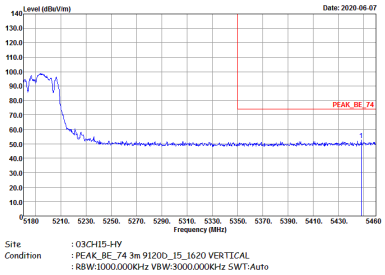
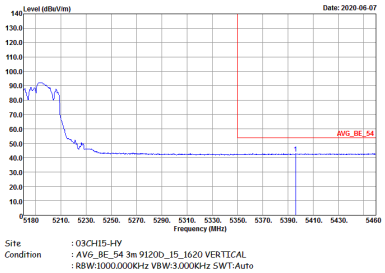
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

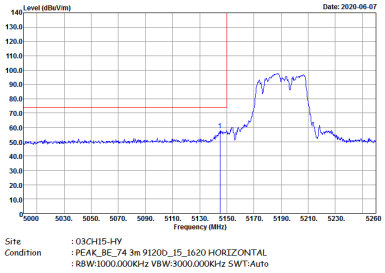
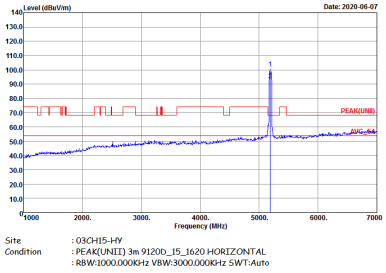
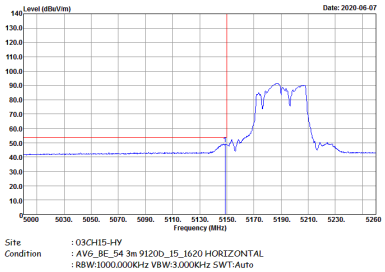
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

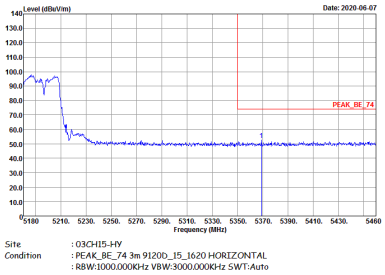
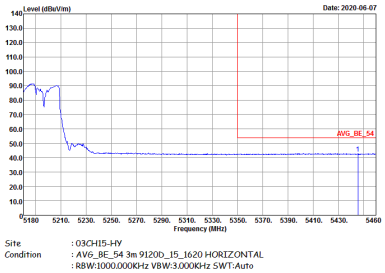
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

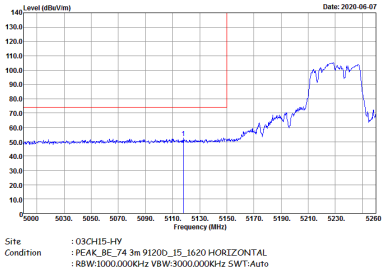
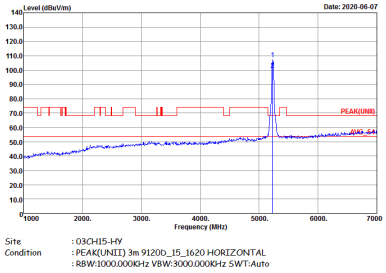
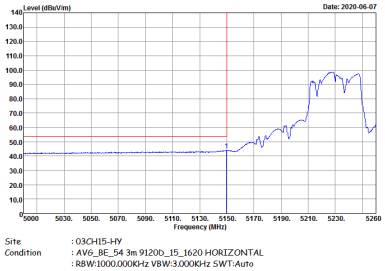
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

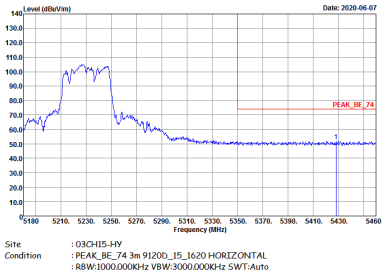
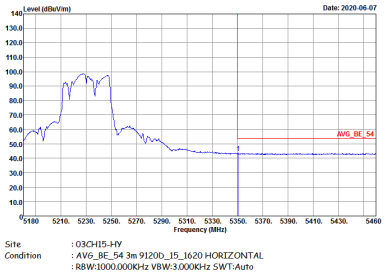
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

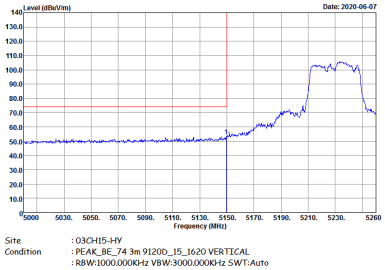
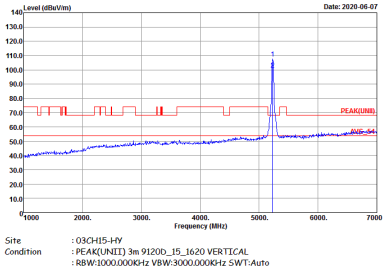
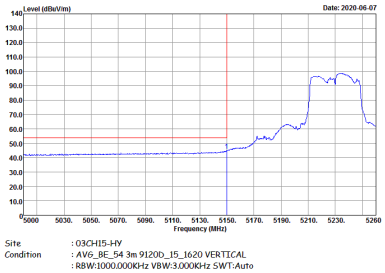
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

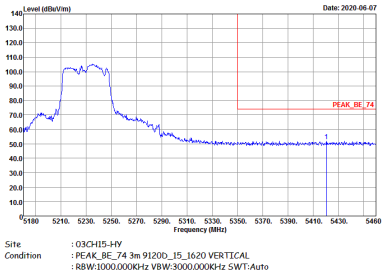
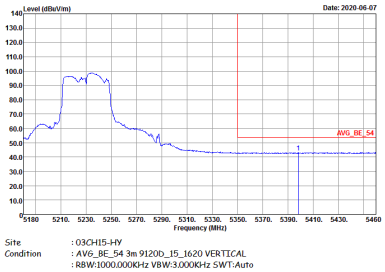
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

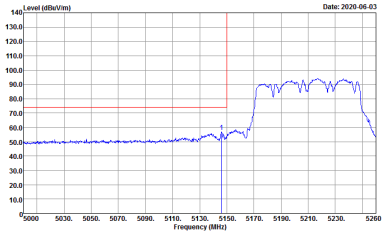
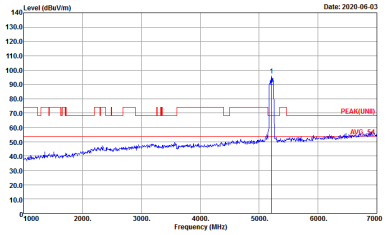
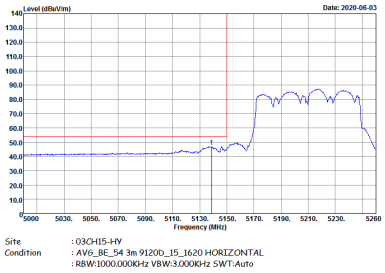
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

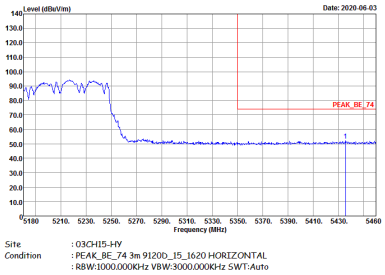
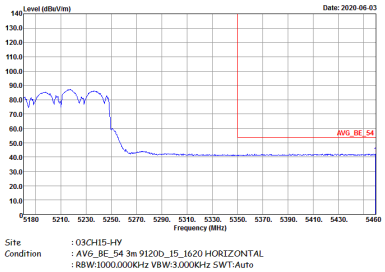
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

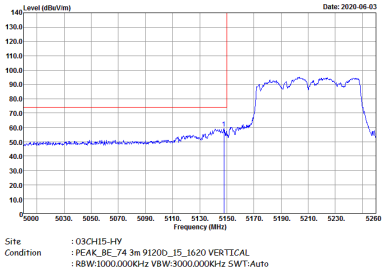
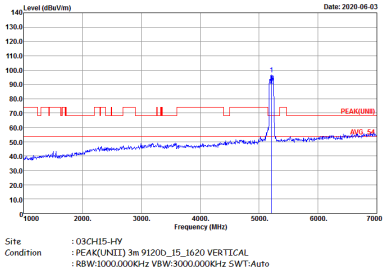
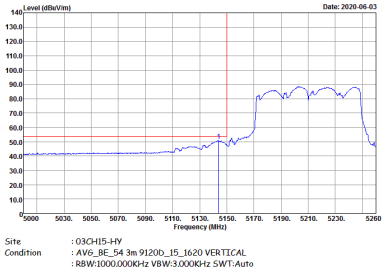
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

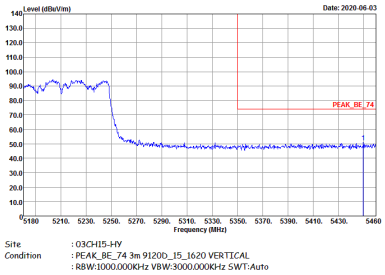
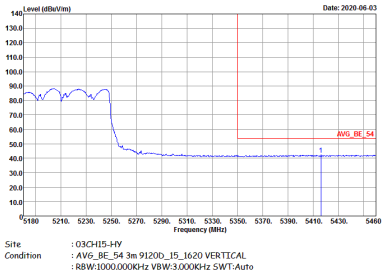
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

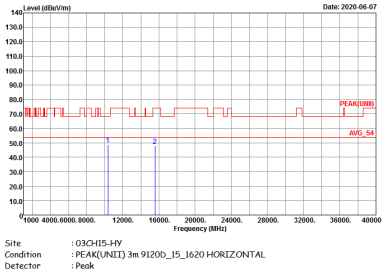
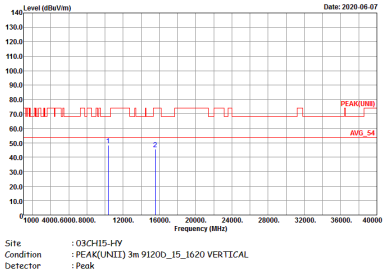
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

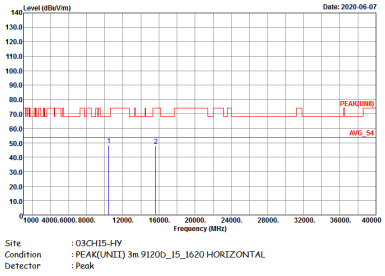
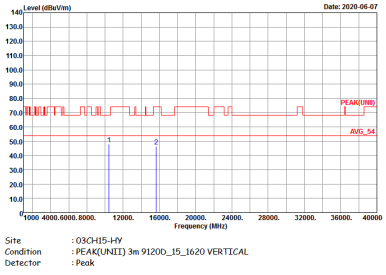
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

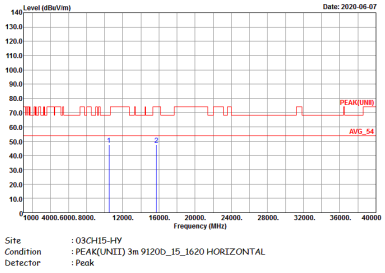
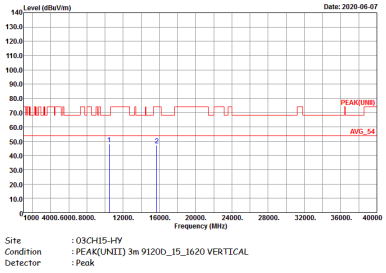
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

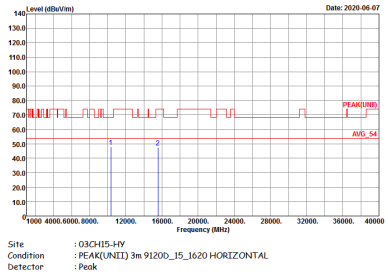
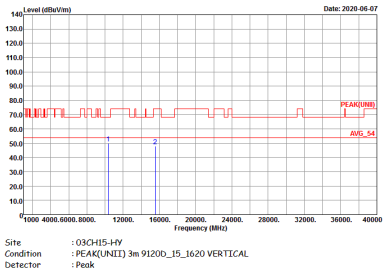
WIFI 802.11a (Harmonic @ 3m)

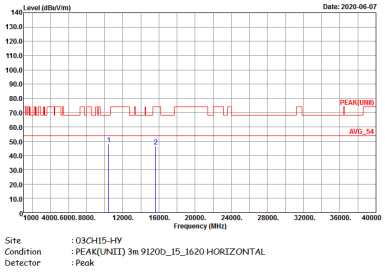
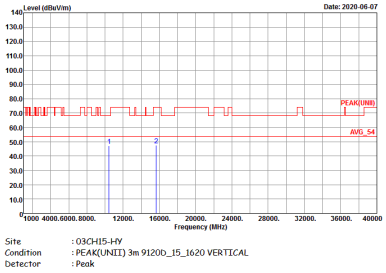
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Horizontal	Vertical
Peak Avg.		

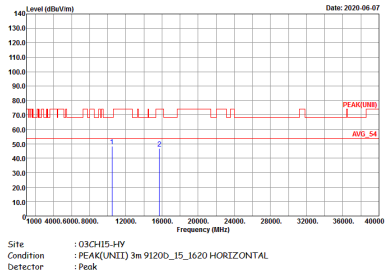
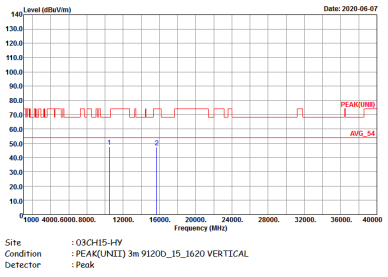
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
4+3	Horizontal	Vertical
Peak Avg.		

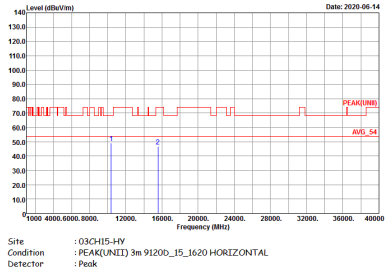
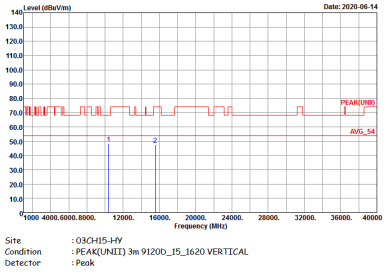
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

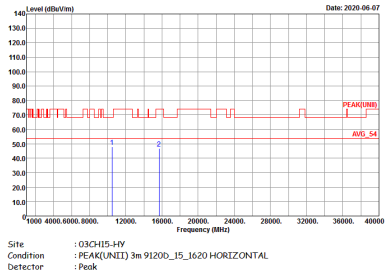
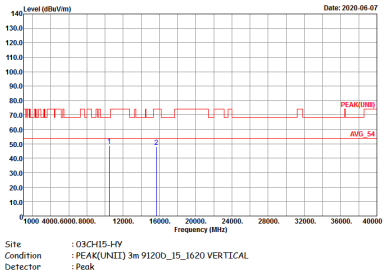
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
4+3	Horizontal	Vertical
Peak Avg.		

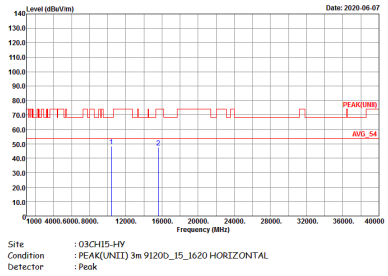
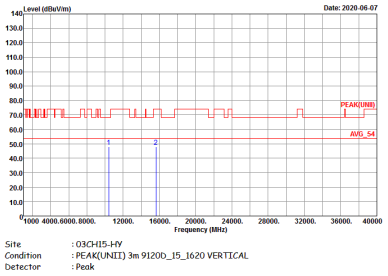
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
4+3	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
4+3	Horizontal	Vertical
Peak Avg.		

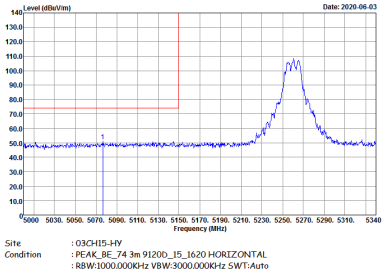
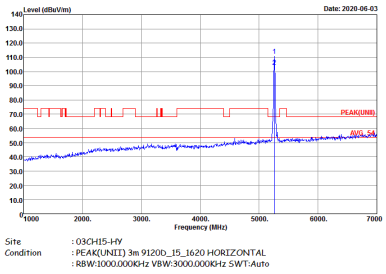
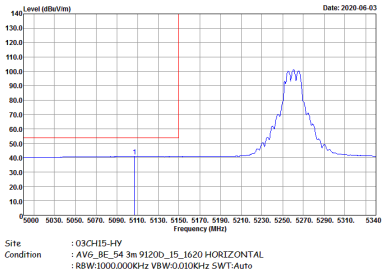
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
4+3	Horizontal	Vertical
Peak Avg.		

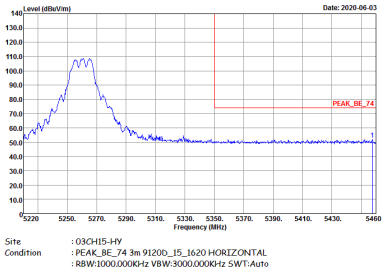
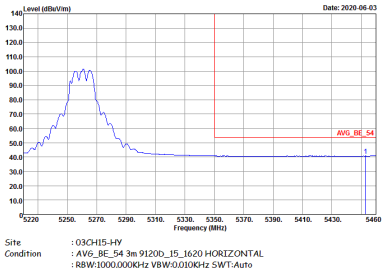
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

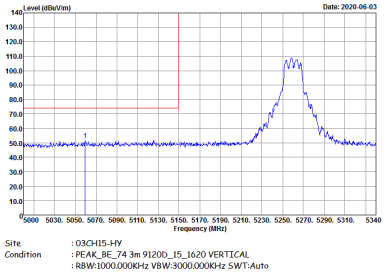
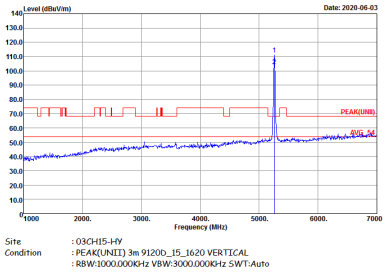
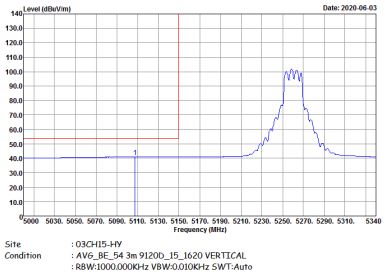
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
4+3	Horizontal	Vertical
Peak Avg.		

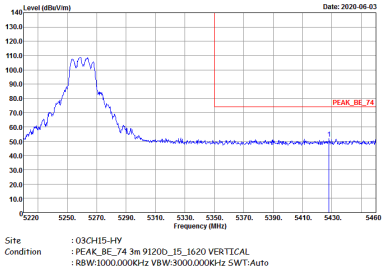
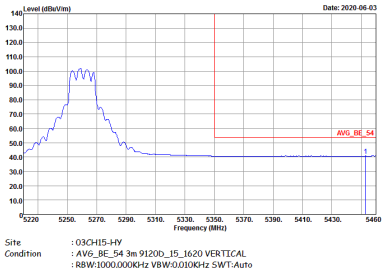
Band 2 - 5250~5350MHz

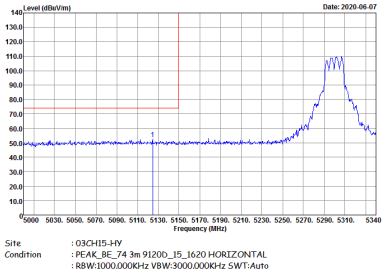
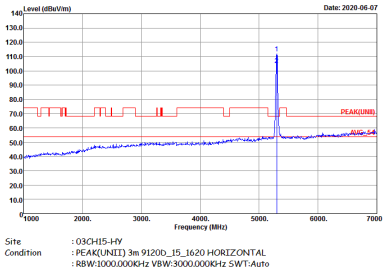
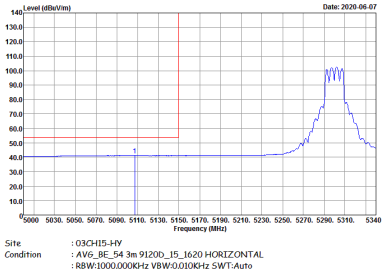
WIFI 802.11a (Band Edge @ 3m)

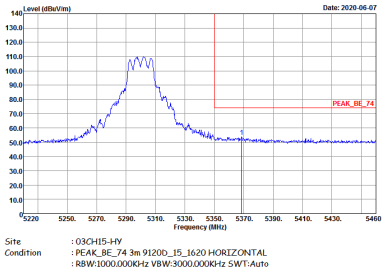
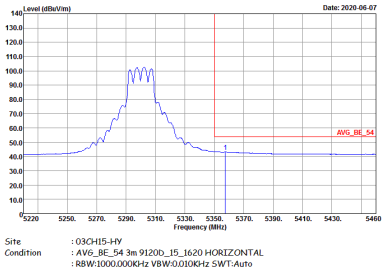
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

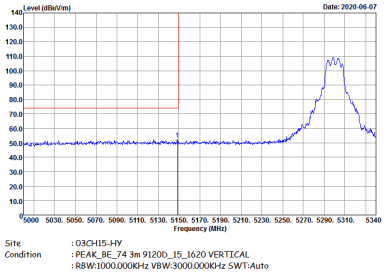
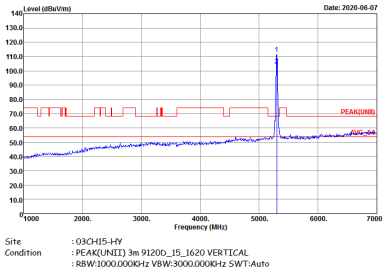
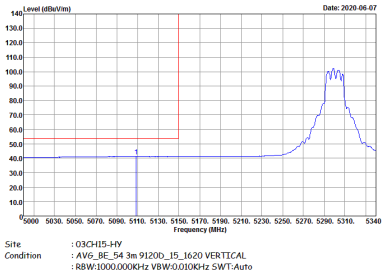
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

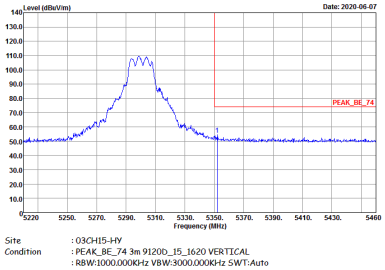
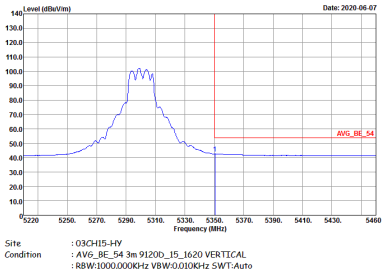
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

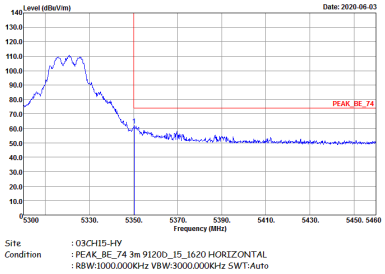
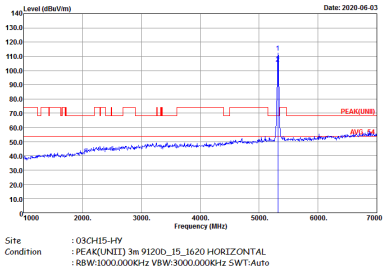
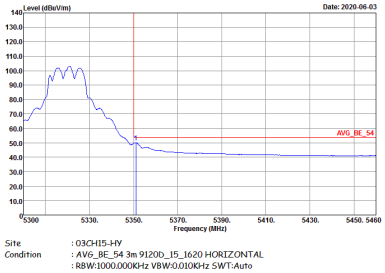
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

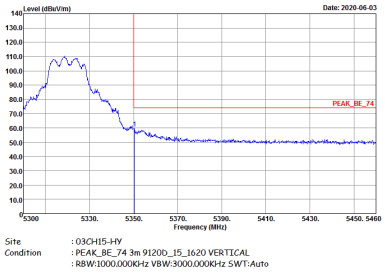
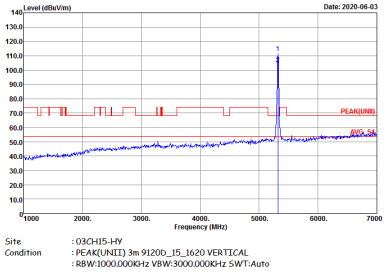
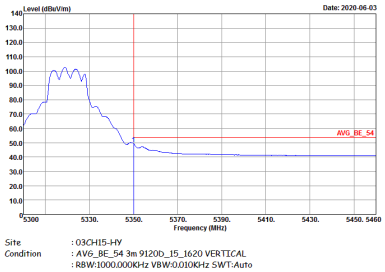
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

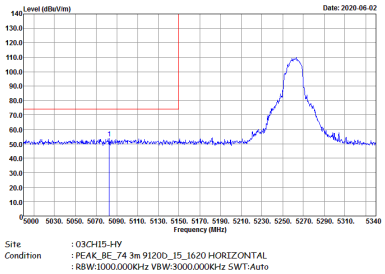
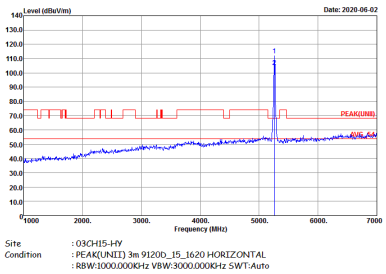
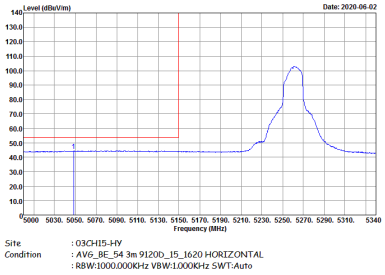
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

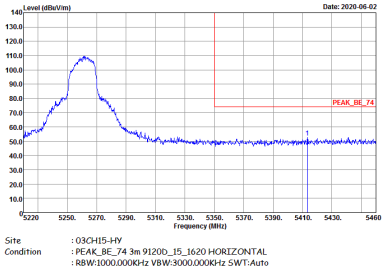
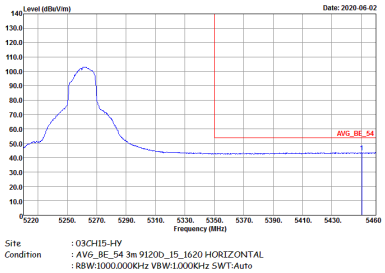
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

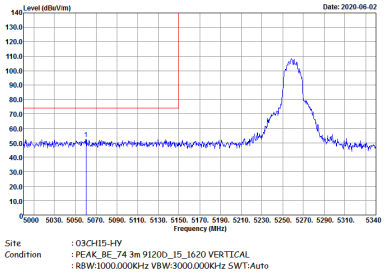
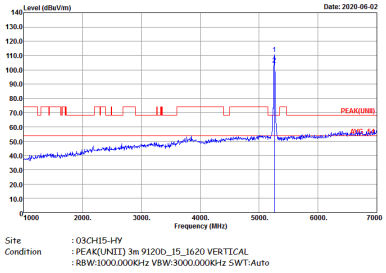
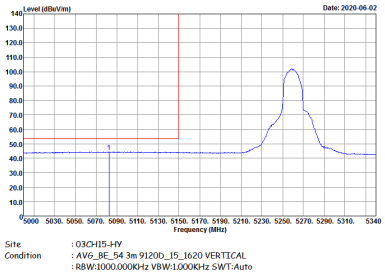
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

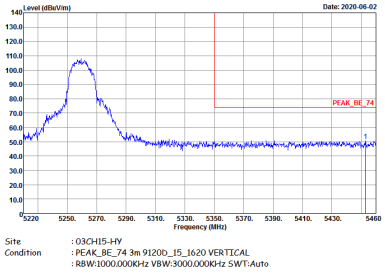
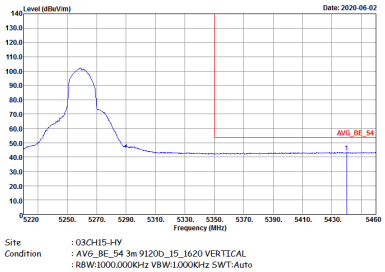
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

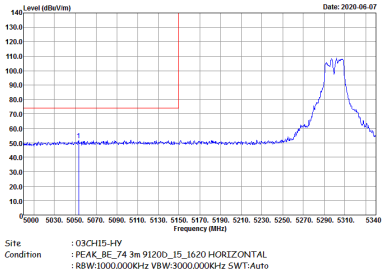
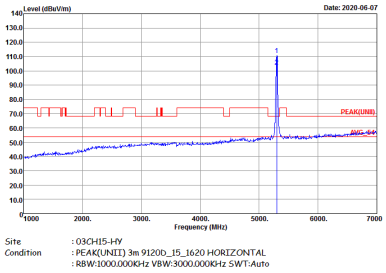
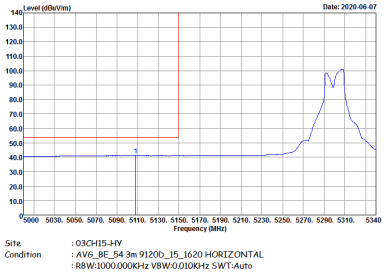
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

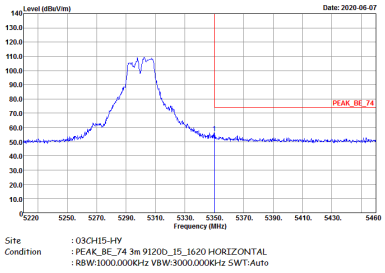
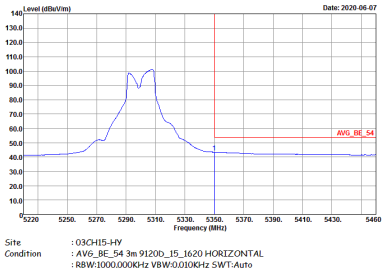
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

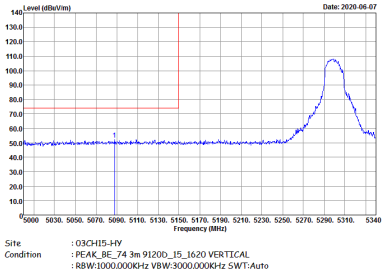
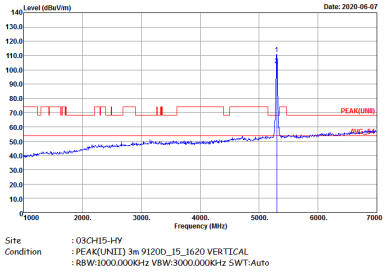
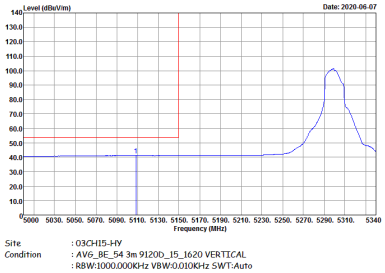
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

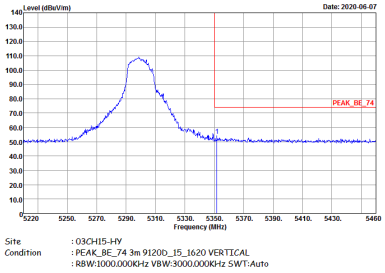
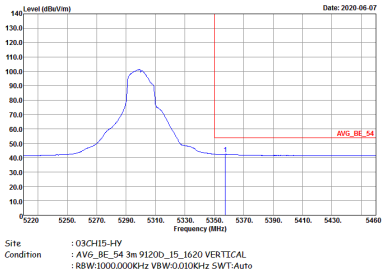
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

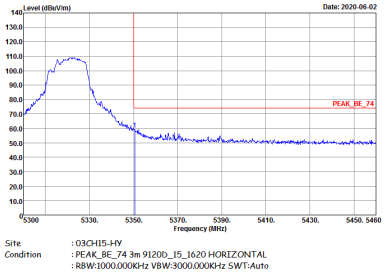
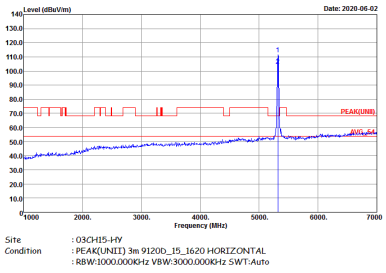
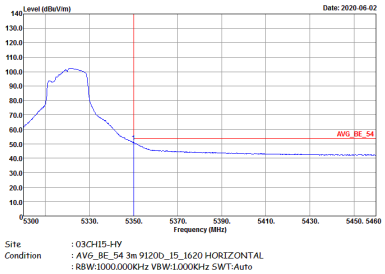
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

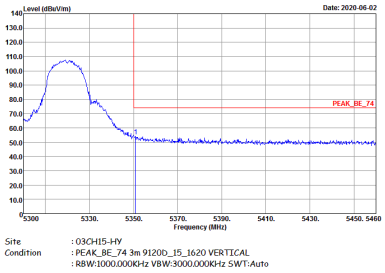
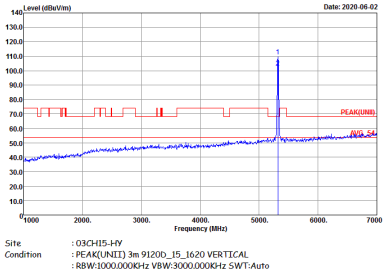
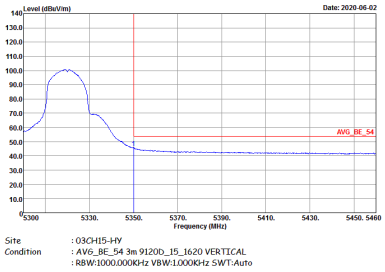
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
4+3	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

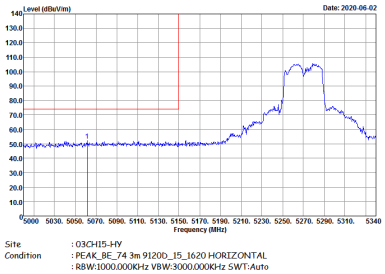
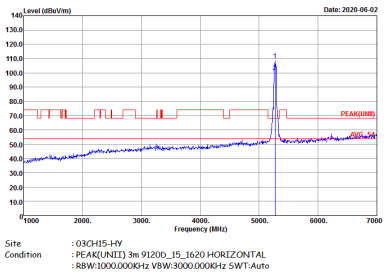
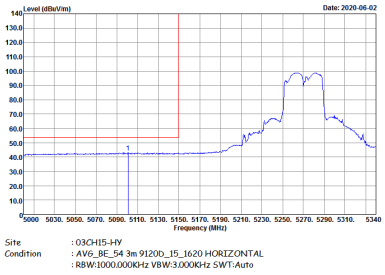
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

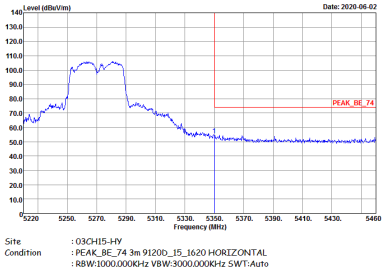
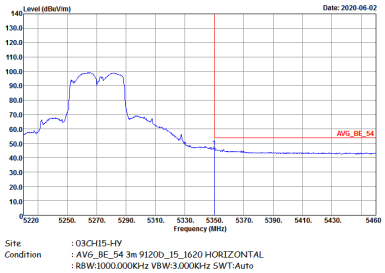
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

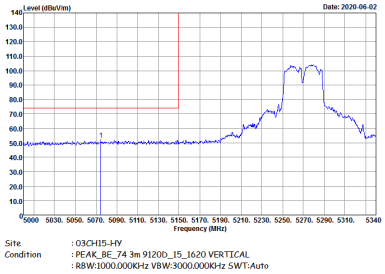
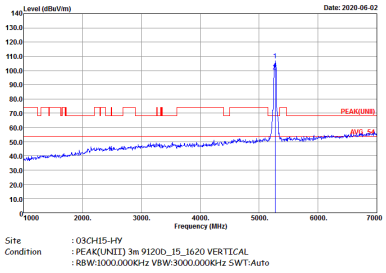
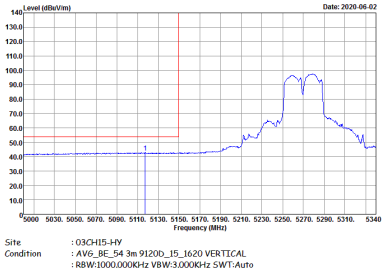
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	Left blank

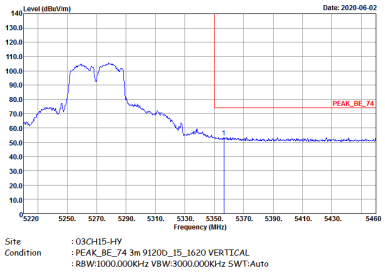
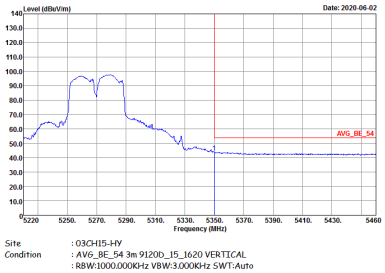
Band 2 5250~5350MHz

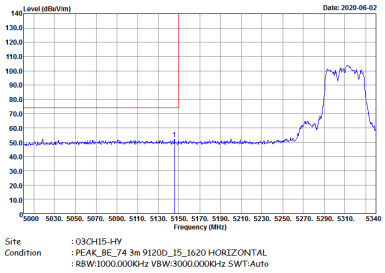
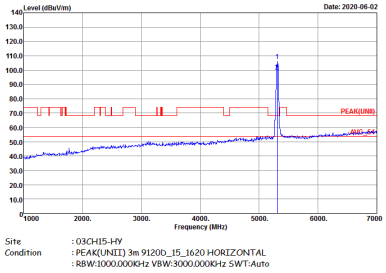
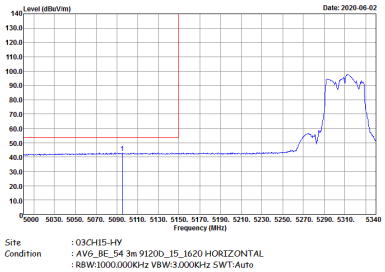
WIFI 802.11n HT40 (Band Edge @ 3m)

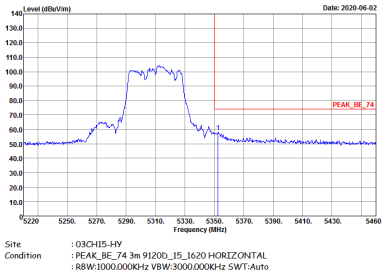
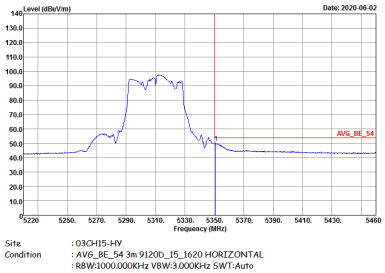
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

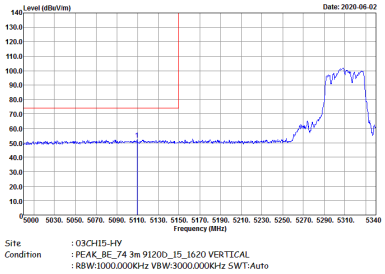
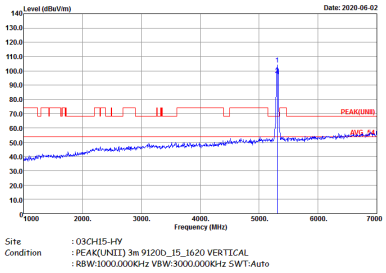
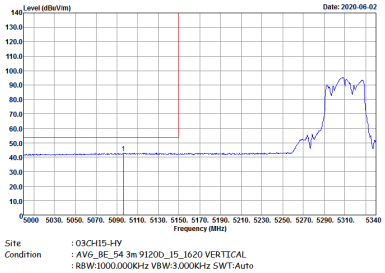
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

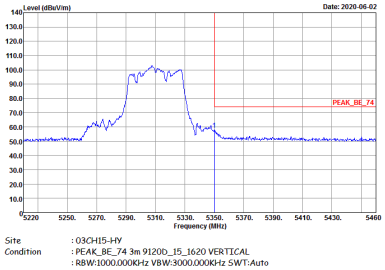
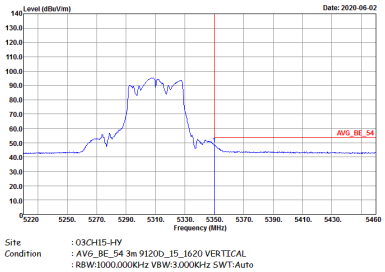
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
4+3	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
4+3	Vertical	Vertical
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

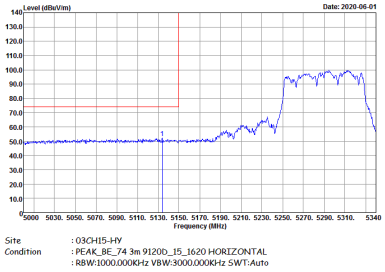
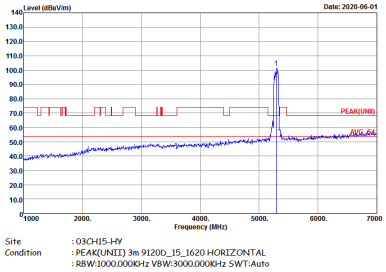
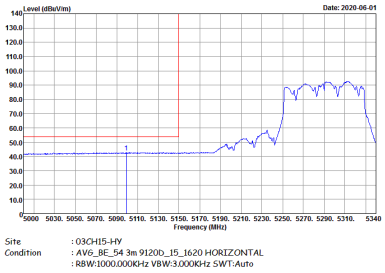
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

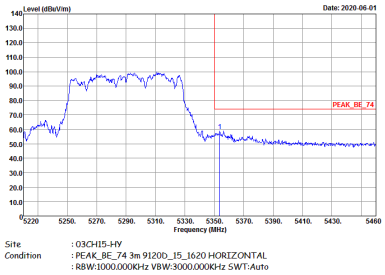
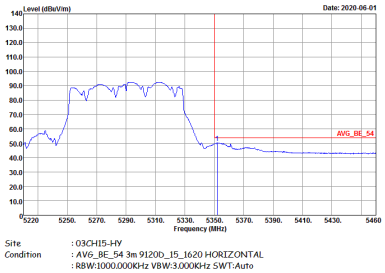
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

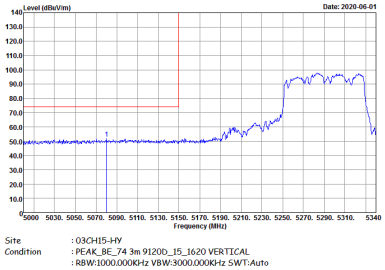
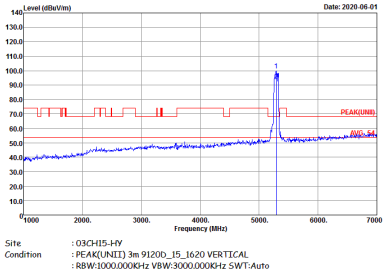
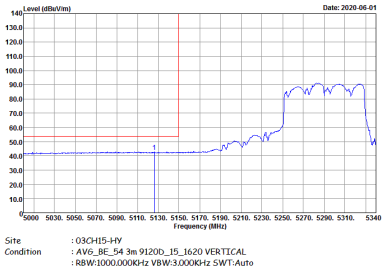
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

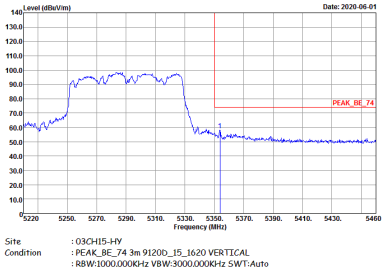
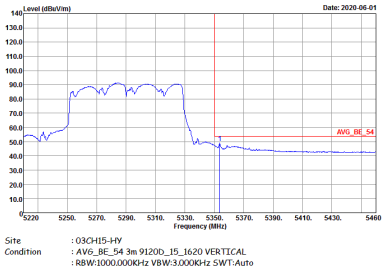
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

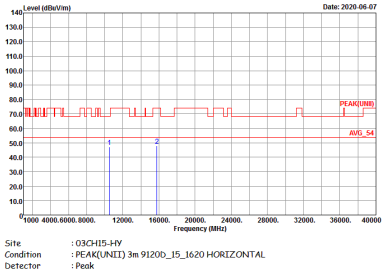
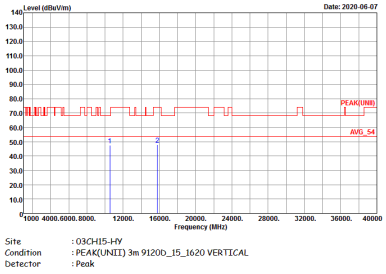
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

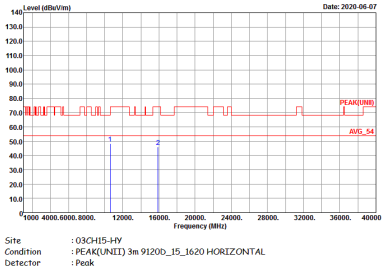
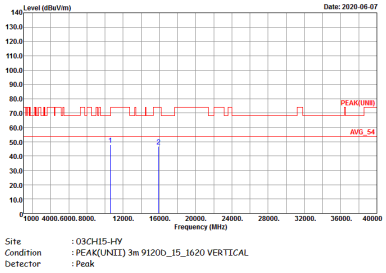
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

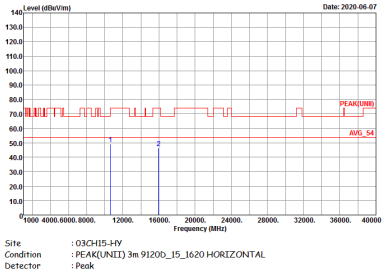
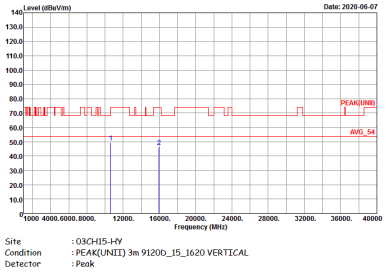
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

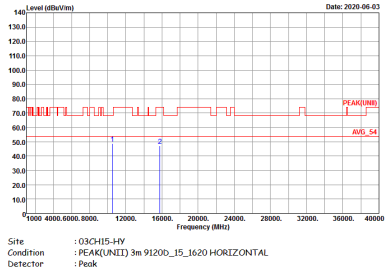
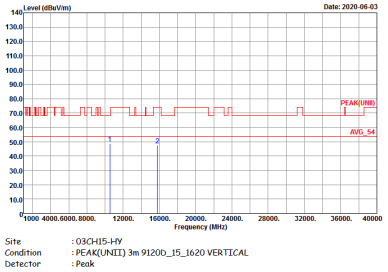
WIFI 802.11a (Harmonic @ 3m)

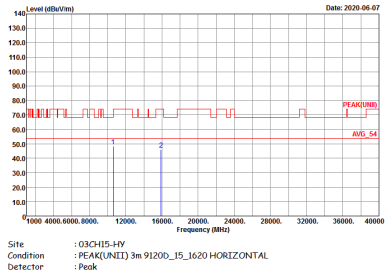
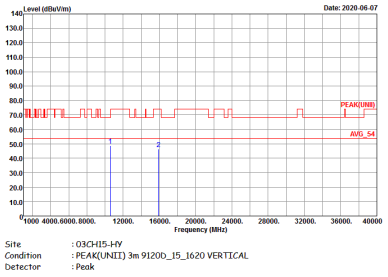
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
4+3	Horizontal	Vertical
Peak Avg.		

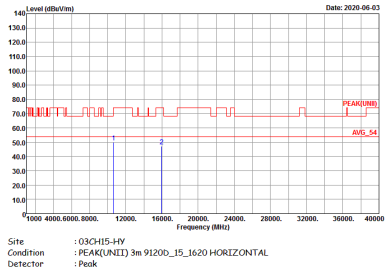
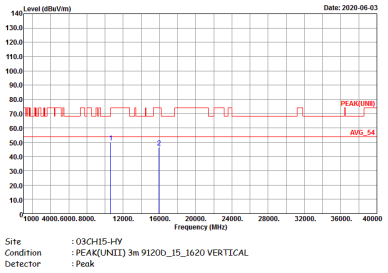
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
4+3	Horizontal	Vertical
Peak Avg.		

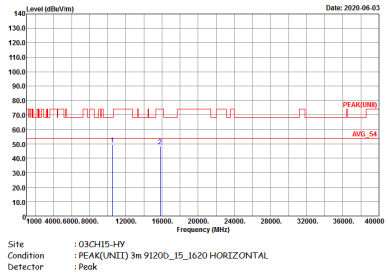
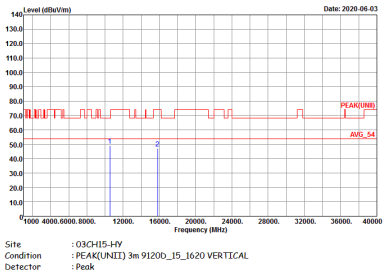
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

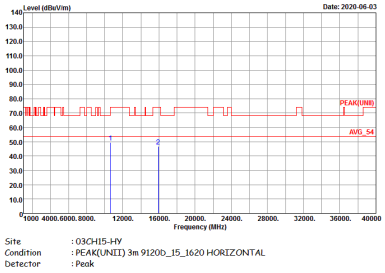
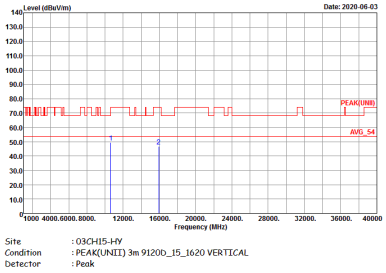
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
4+3	Horizontal	Vertical
Peak Avg.		

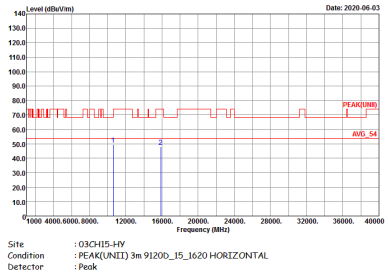
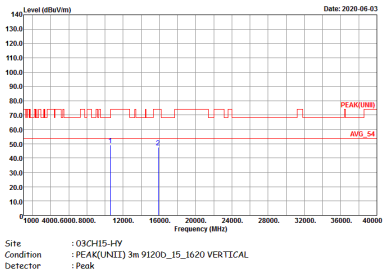
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
4+3	Horizontal	Vertical
Peak Avg.		

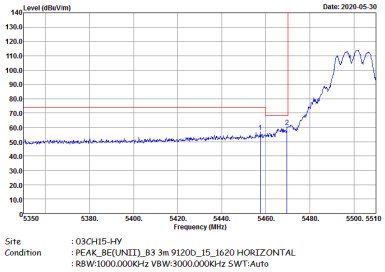
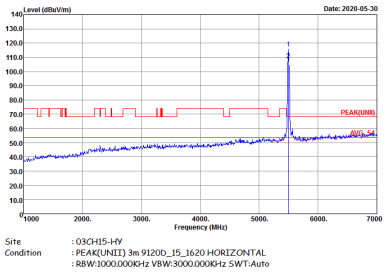
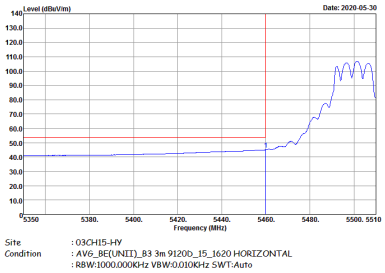
Band 2 5250~5350MHz

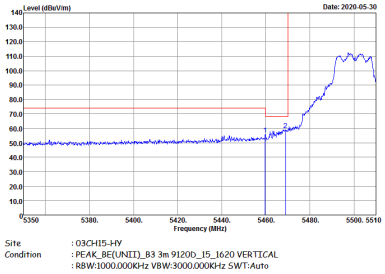
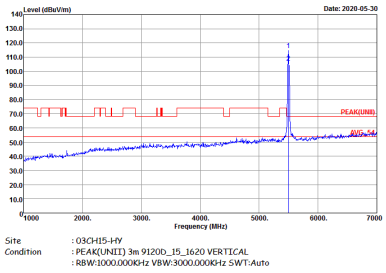
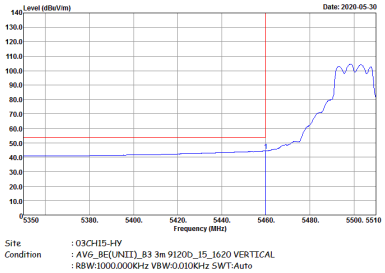
WIFI 802.11ac VHT80 (Harmonic @ 3m)

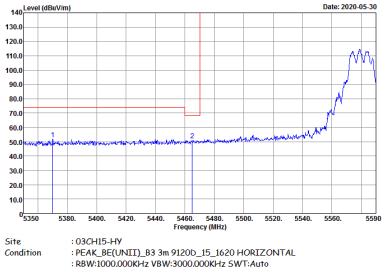
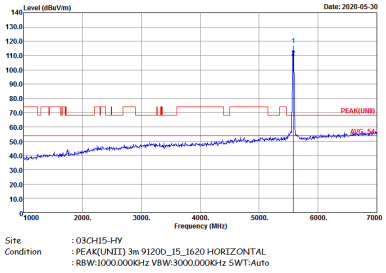
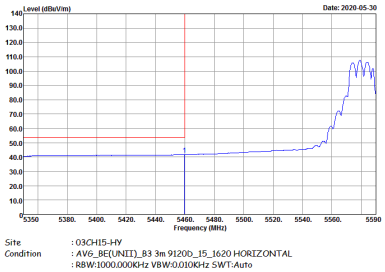
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
4+3	Horizontal	Vertical
Peak Avg.		

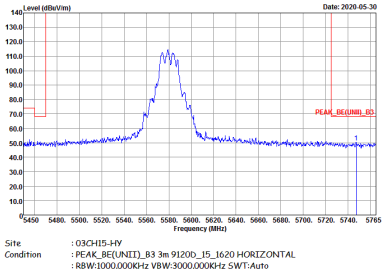
Band 3 - 5470~5725MHz

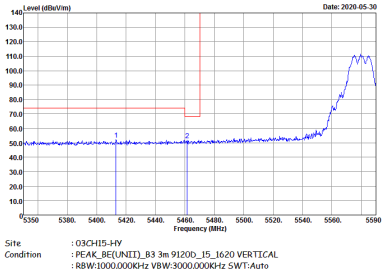
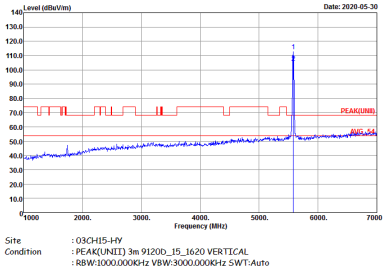
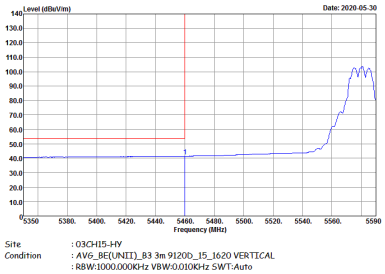
WIFI 802.11a (Band Edge @ 3m)

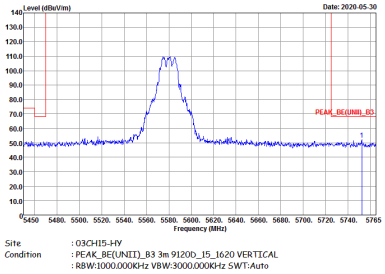
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

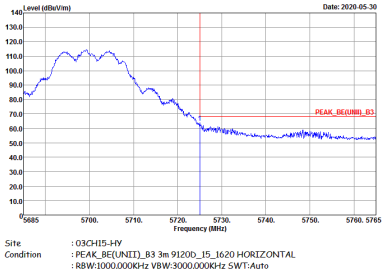
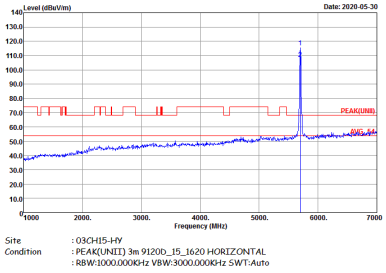
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

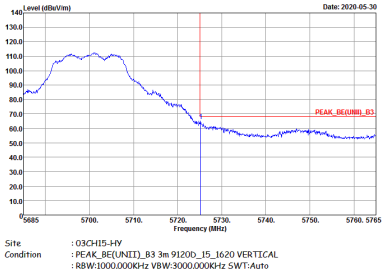
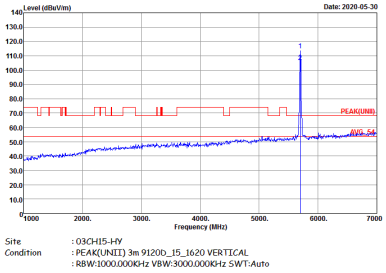
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank

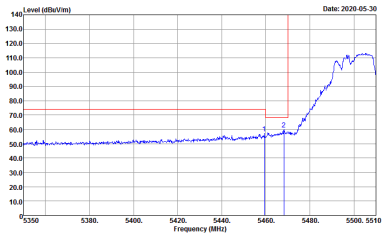
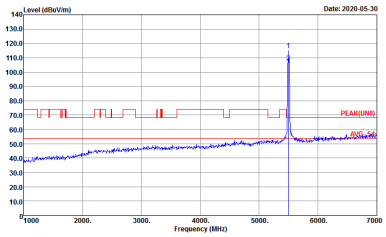
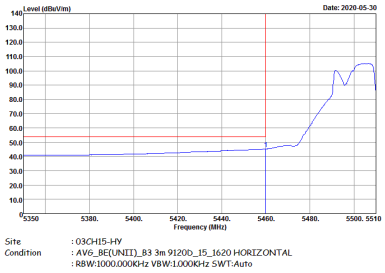
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

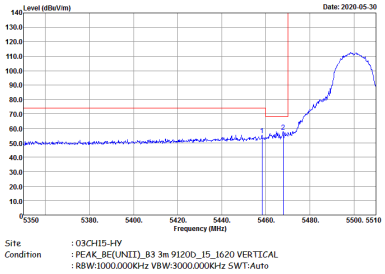
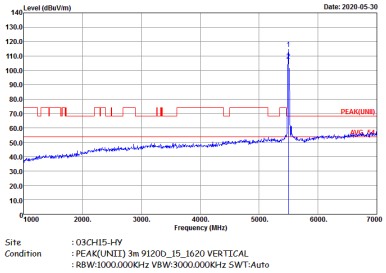
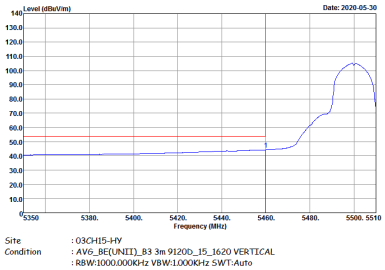
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank

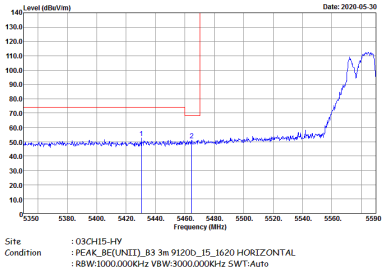
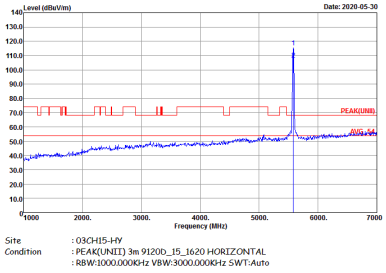
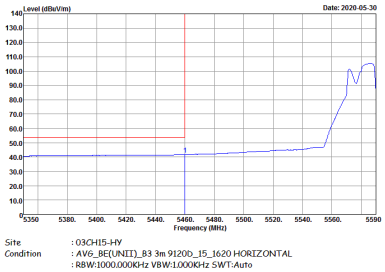
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
4+3	Horizontal	Fundamental
Peak		

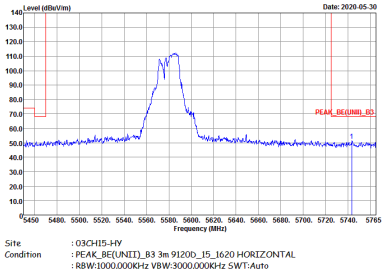
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
4+3	Vertical	Fundamental
Peak		

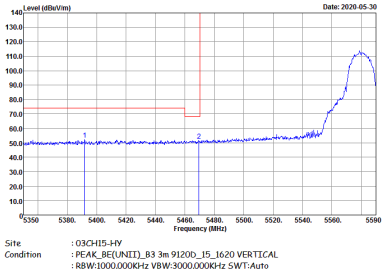
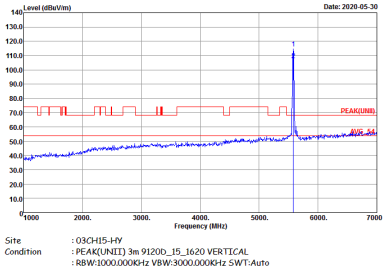
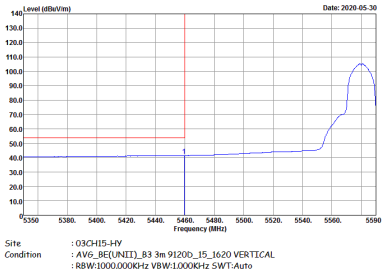
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

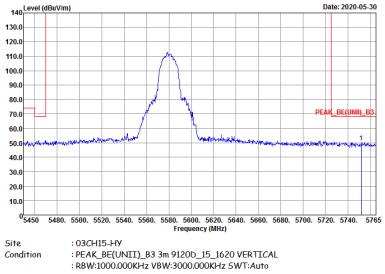
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

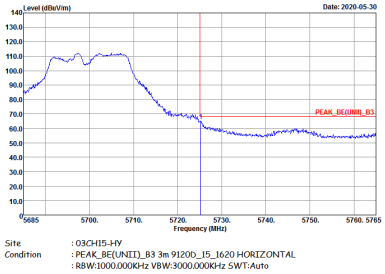
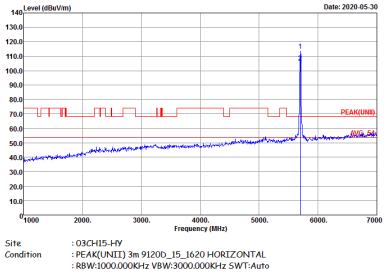
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

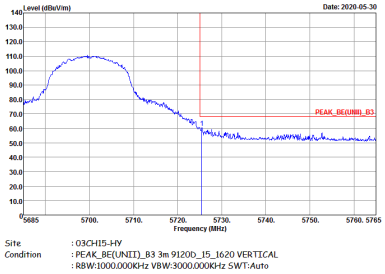
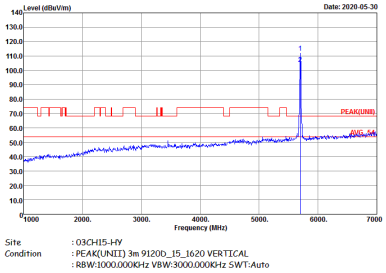
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank

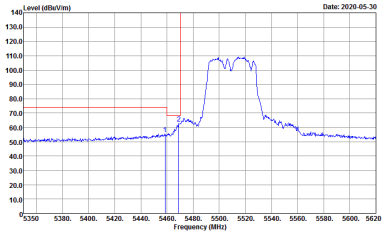
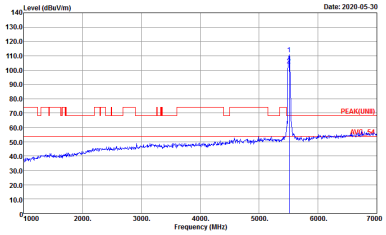
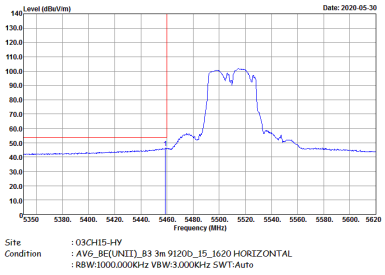
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

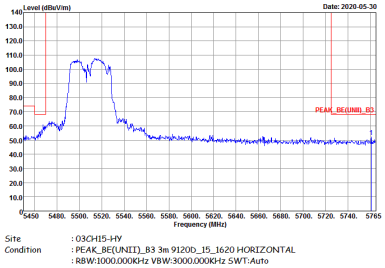
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank

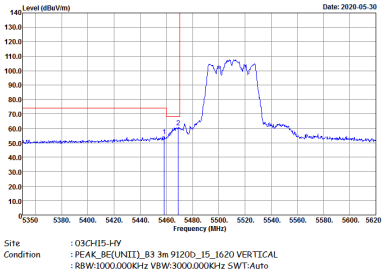
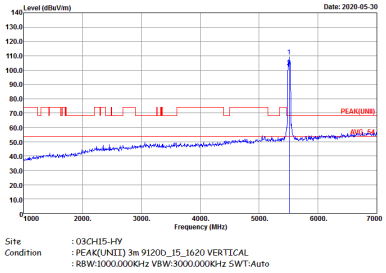
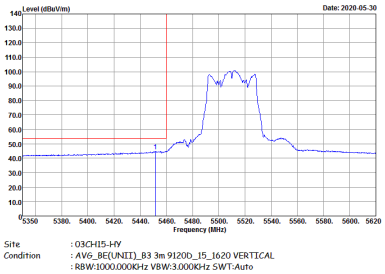
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
4+3	Horizontal	Fundamental
Peak		

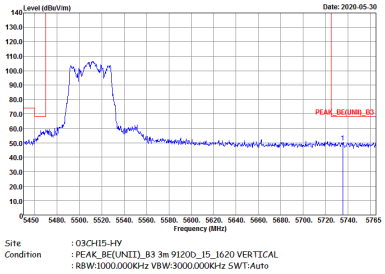
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
4+3	Vertical	Fundamental
Peak.		

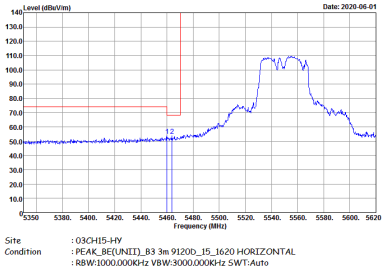
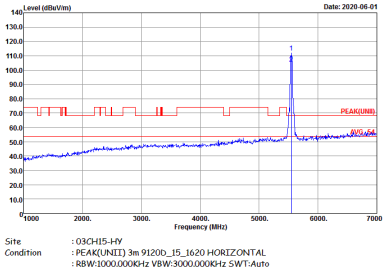
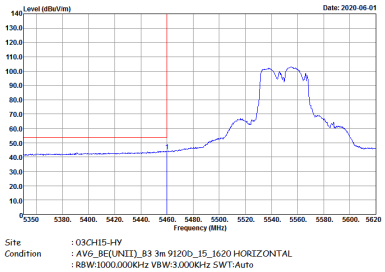
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

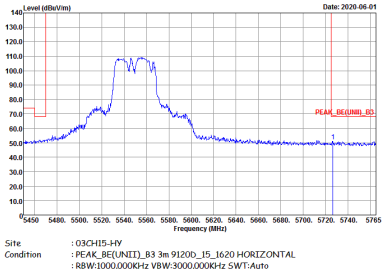
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

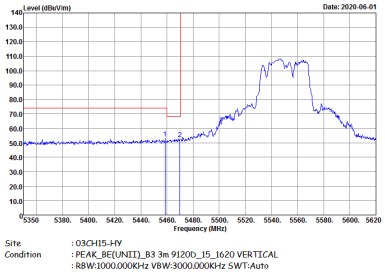
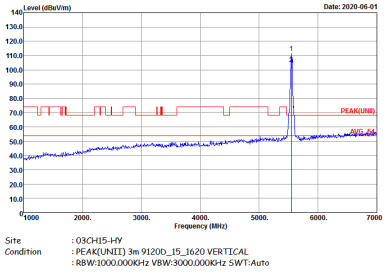
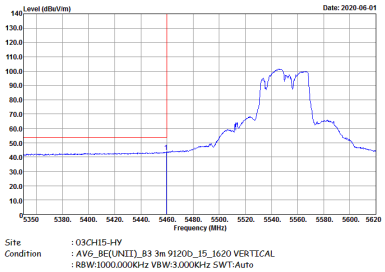
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank

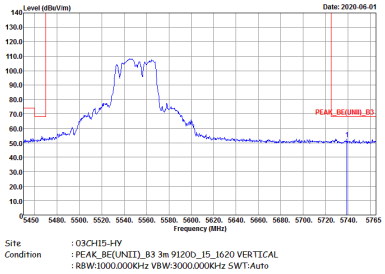
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

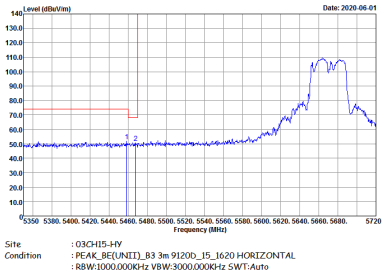
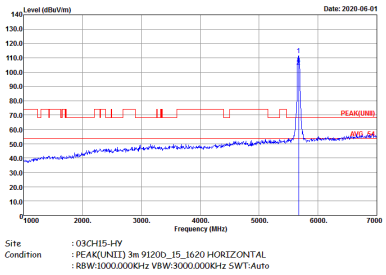
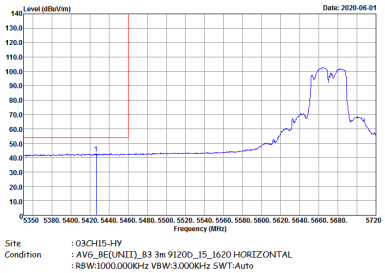
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank

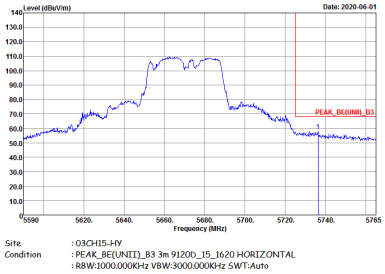
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

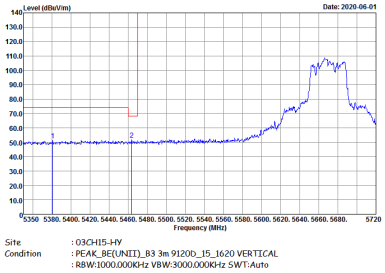
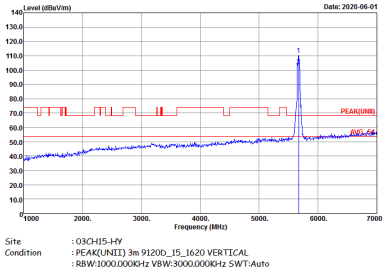
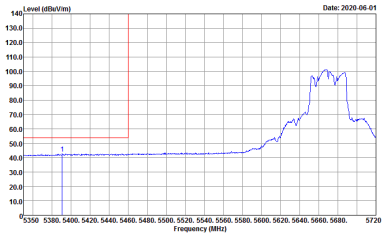
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank

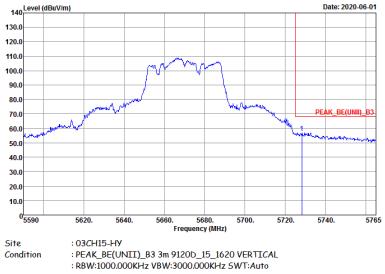
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank

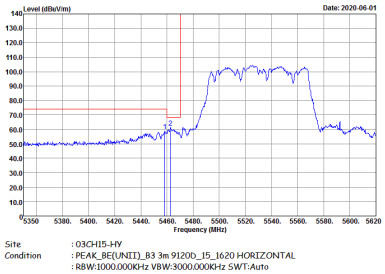
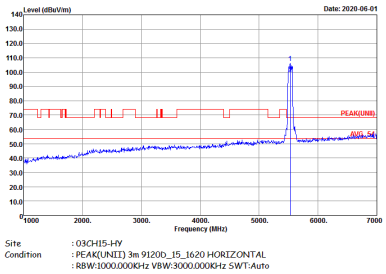
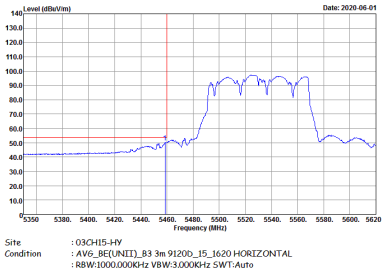
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

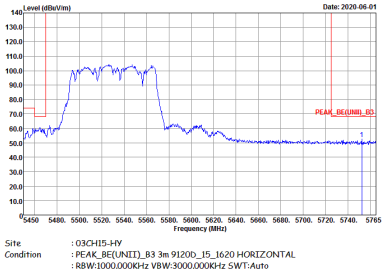
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
4+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_83 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK(UNII) 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_83 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank