FCC RADIO TEST REPORT

FCC ID	:	**2ASD2-7483**
Equipment	:	**Digital Media Receiver**
Model Name	:	**36EBT3**
Applicant	:	**Process Run LLC** **2815 Forbs Avenue, Suite 107** **Hoffman Estates, IL 60192** **United States**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 12, 2019 and testing was started from Jun. 05, 2019 and completed on Jul. 01, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Jones Tsai

Approved by: Jones Tsai

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
FR921234-01D	01	Initial issue of report	Jul. 15, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
3.5	15.207	AC Conducted Emission	Pass
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: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	36EBT3
FCC ID	2ASD2-7483
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

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	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.90 dBm / 0.0617 W 802.11n HT20 : 17.80 dBm / 0.0603 W 802.11n HT40 : 18.00 dBm / 0.0631 W 802.11ac VHT20 : 17.70 dBm / 0.0589 W 802.11ac VHT40 : 17.90 dBm / 0.0617 W 802.11ac VHT80 : 14.60 dBm / 0.0288 W **<5260 MHz ~ 5320 MHz>** 802.11a : 18.00 dBm / 0.0631 W 802.11n HT20 : 18.00 dBm / 0.0631 W 802.11n HT40 : 18.20 dBm / 0.0661 W 802.11ac VHT20 : 17.90 dBm / 0.0617 W 802.11ac VHT40 : 18.10 dBm / 0.0646 W 802.11ac VHT80 : 15.60 dBm / 0.0363 W **<5500 MHz ~ 5720 MHz >** 802.11a : 18.40 dBm / 0.0692 W 802.11n HT20 : 18.30 dBm / 0.0676 W 802.11n HT40 : 18.60 dBm / 0.0724 W 802.11ac VHT20 : 18.20 dBm / 0.0661 W 802.11ac VHT40 : 18.50 dBm / 0.0708 W 802.11ac VHT80 : 17.80 dBm / 0.0603 W

Standards-related Product Specification	
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.18 MHz 802.11 n HT20 : 18.03 MHz 802.11 n HT40 : 36.96 MHz 802.11 ac VHT80 : 76.72 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.03 MHz 802.11 n HT20 : 17.93 MHz 802.11 n HT40 : 37.06 MHz 802.11 ac VHT80 : 76.72 MHz **<5500 MHz ~ 5720 MHz >** 802.11a : 16.98 MHz 802.11 n HT20 : 18.03 MHz 802.11 n HT40 : 37.56 MHz 802.11 ac VHT80 : 77.20 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** Printed Inverted-F Antenna with gain 3.5 dBi **<5260 MHz ~ 5320 MHz>** Printed Inverted-F Antenna with gain 3.5 dBi **<5500 MHz ~ 5720 MHz >** Printed Inverted-F Antenna with gain 3.5 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)

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	DFS02-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.**
	03CH16-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.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in two setup, without accessories and with accessories. The worst cases (with accessories) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

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

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

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

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

Note:

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

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Play News + LED on + Speaker + Charging from Adapter

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

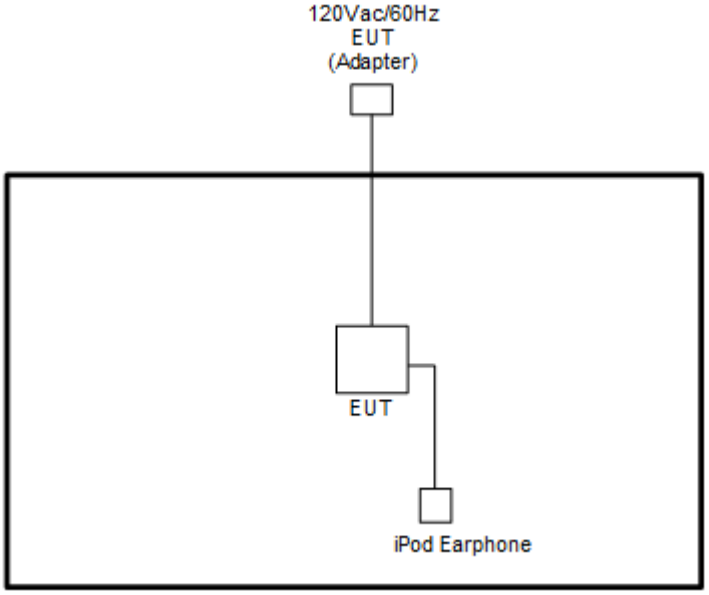
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

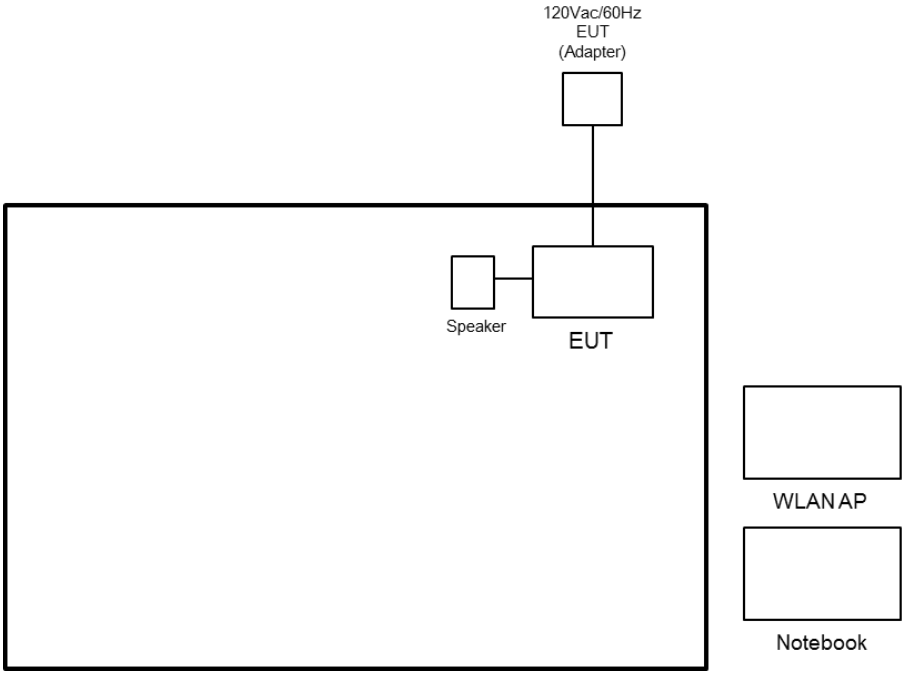
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-
Straddle		-	-	138

2.3 Connection Diagram of Test System

<WLAN Tx 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	Speaker	JAMBOX	Min JAMBOX	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Compliance tool 1.0.0.50” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

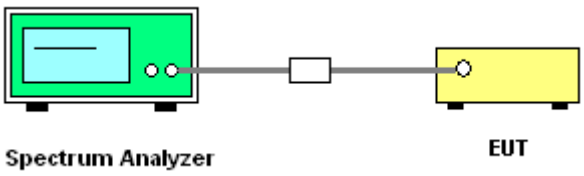
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

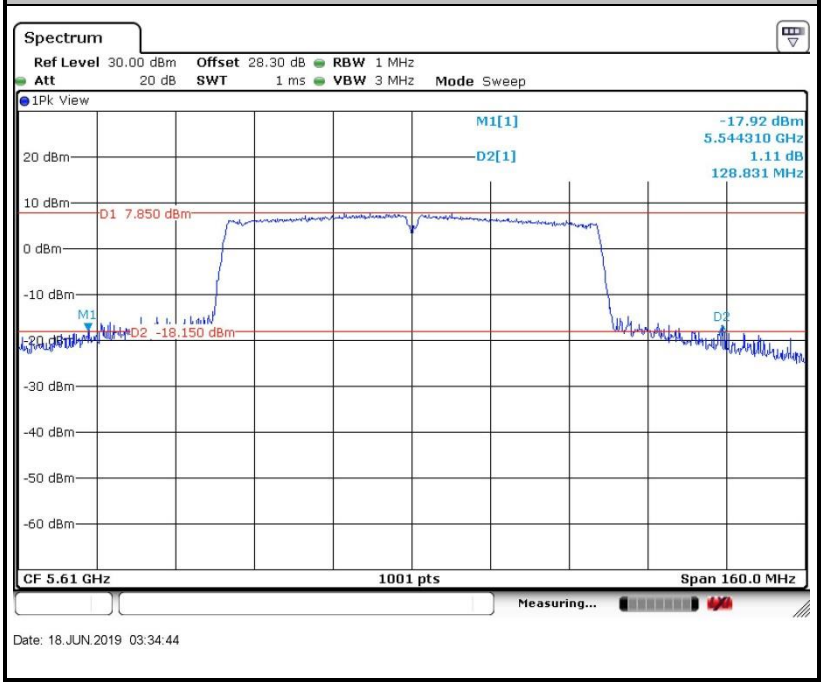
3.1.4 Test Setup



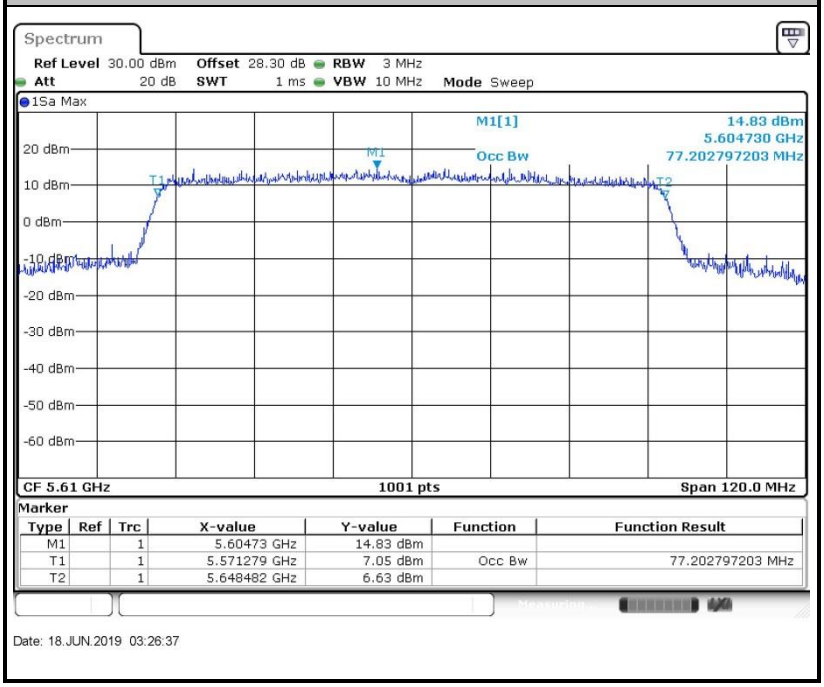
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

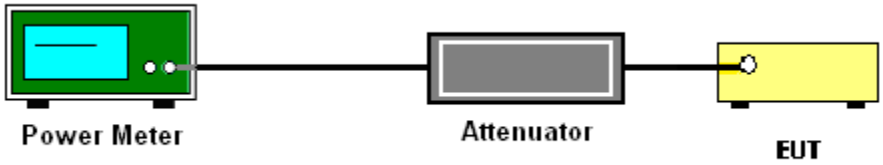
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

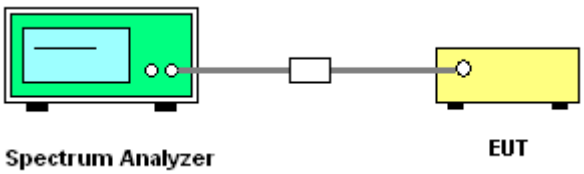
 # Method SA-3 #

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

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

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

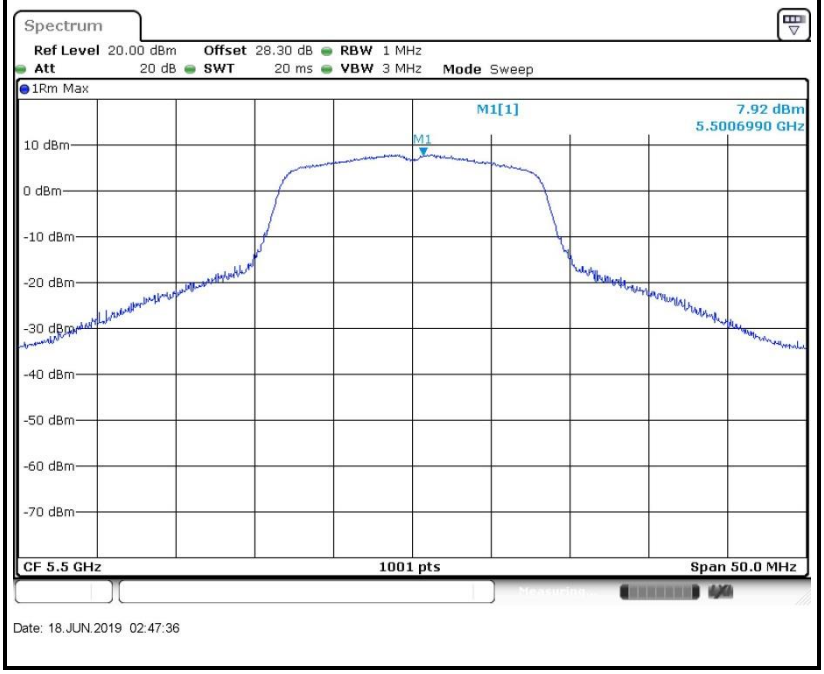
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits 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.3

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

   Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

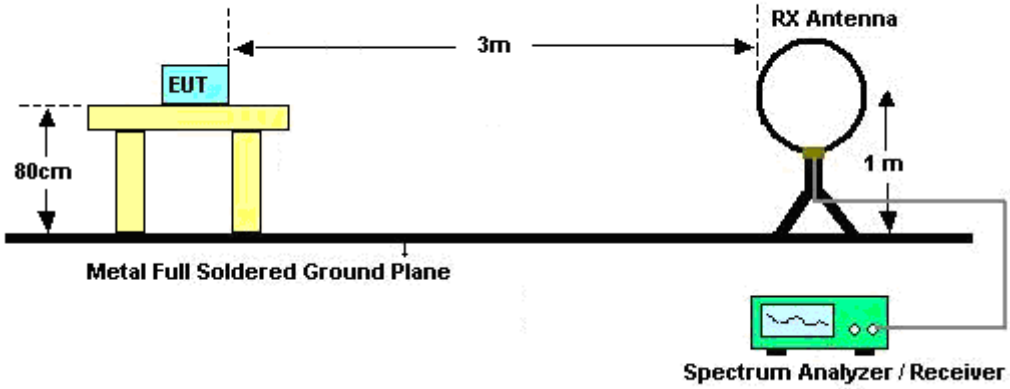
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

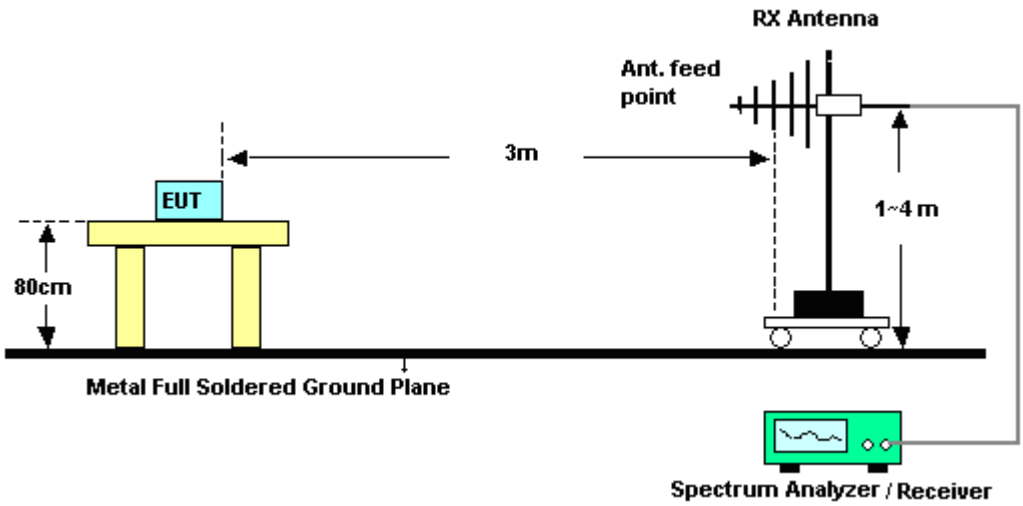
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

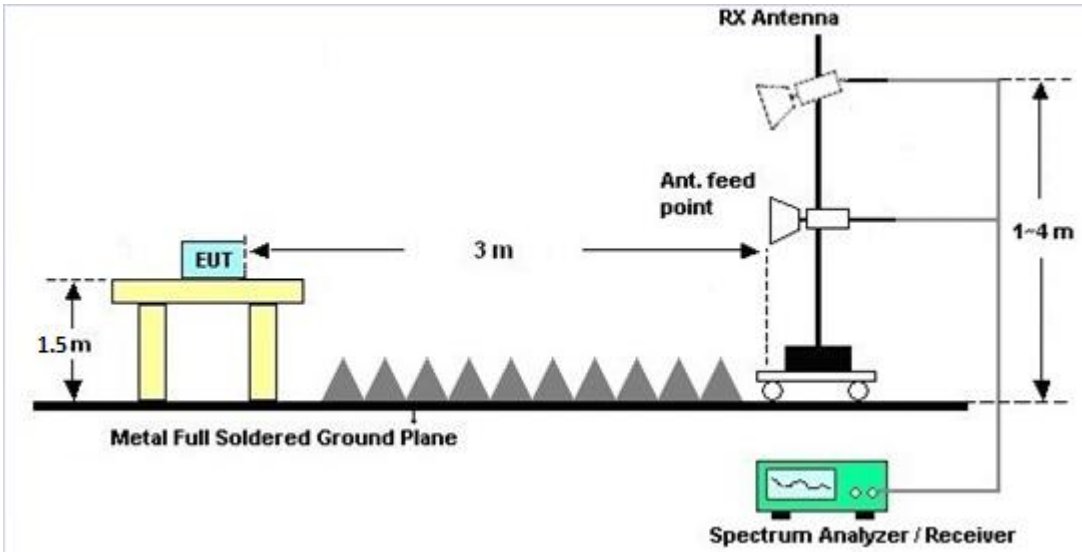
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

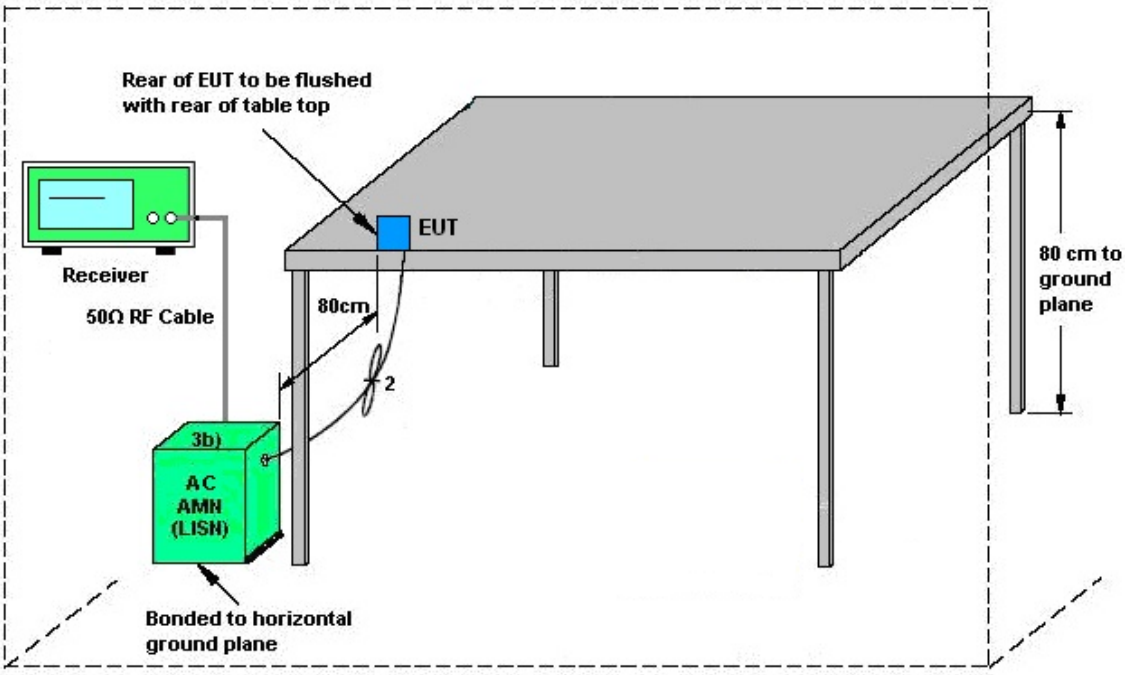
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 16, 2018	Jun. 08, 2019	Aug. 15, 2019	DFS (DFS02-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Jun. 11, 2019~ Jun. 18, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jun. 11, 2019~ Jun. 18, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jun. 11, 2019~ Jun. 18, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jun. 24, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 24, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jun. 24, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 24, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 24, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Jun. 05, 2019~ Jul. 01, 2019	Jan. 10, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 13, 2018	Jun. 05, 2019~ Jul. 01, 2019	Oct. 12, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 07, 2018	Jun. 05, 2019~ Jul. 01, 2019	Sep. 06, 2019	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz ~ 40GHz	Nov. 20, 2018	Jun. 05, 2019~ Jul. 01, 2019	Nov. 19, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02, 2018	Jun. 05, 2019~ Jul. 01, 2019	Oct. 01, 2019	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Apr. 01, 2019	Jun. 05, 2019~ Jul. 01, 2019	Mar. 31, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 12, 2018	Jun. 05, 2019~ Jul. 01, 2019	Dec. 11, 2019	Radiation (03CH16-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jun. 05, 2019~ Jul. 01, 2019	Jul. 15, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 29, 2018	Jun. 05, 2019~ Jul. 01, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY54200486	10Hz~44GHz	Oct. 19, 2018	Jun. 05, 2019~ Jul. 01, 2019	Oct. 18, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/26EA	30M-18G	Oct. 15, 2018	Jun. 05, 2019~ Jul. 01, 2019	Oct. 14, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Feb. 26, 2019	Jun. 05, 2019~ Jul. 01, 2019	Feb. 25, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M~18GHz	Apr. 15, 2019	Jun. 05, 2019~ Jul. 01, 2019	Apr. 14, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jun. 05, 2019~ Jul. 01, 2019	N/A	Radiation (03CH16-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.8

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2019/6/11 ~ 2019/6/18	Relative Humidity:	51~54	%
TX Tool	ComplianceTool	TX Tool Version	1.0.0.50	

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-	17.03	-	30.97	-		-	22.31		
11a	6Mbps	1	44	5220	-	17.18	-	34.37	-		-	22.35		
11a	6Mbps	1	48	5240	-	17.18	-	33.67	-		-	22.35		
HT20	MCS0	1	36	5180	-	17.88	-	30.32	-		-	22.52		
HT20	MCS0	1	44	5220	-	17.93	-	35.16	-		-	22.54		
HT20	MCS0	1	48	5240	-	18.03	-	34.12	-		-	22.56		
HT40	MCS0	1	38	5190	-	36.76	-	41.27	-		-	23.01		
HT40	MCS0	1	46	5230	-	36.96	-	65.01	-		-	23.01		
VHT80	MCS0	1	42	5210	-	76.72	-	81.52	-		-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-	17.70		-	24.00	-	3.50		Pass
11a	6Mbps	1	44	5220	-	17.90		-	24.00	-	3.50		Pass
11a	6Mbps	1	48	5240	-	17.90		-	24.00	-	3.50		Pass
HT20	MCS0	1	36	5180	-	17.60		-	24.00	-	3.50		Pass
HT20	MCS0	1	44	5220	-	17.80		-	24.00	-	3.50		Pass
HT20	MCS0	1	48	5240	-	17.80		-	24.00	-	3.50		Pass
HT40	MCS0	1	38	5190	-	14.90		-	24.00	-	3.50		Pass
HT40	MCS0	1	46	5230	-	18.00		-	24.00	-	3.50		Pass
VHT20	MCS0	1	36	5180	-	17.50		-	24.00	-	3.50		Pass
VHT20	MCS0	1	44	5220	-	17.70		-	24.00	-	3.50		Pass
VHT20	MCS0	1	48	5240	-	17.70		-	24.00	-	3.50		Pass
VHT40	MCS0	1	38	5190	-	14.80		-	24.00	-	3.50		Pass
VHT40	MCS0	1	46	5230	-	17.90		-	24.00	-	3.50		Pass
VHT80	MCS0	1	42	5210	-	14.60		-	24.00	-	3.50		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	-	-	-	7.26		-	11.00	-	3.50		Pass
11a	6Mbps	1	44	5220	-	-	-	7.60		-	11.00	-	3.50		Pass
11a	6Mbps	1	48	5240	-	-	-	7.68		-	11.00	-	3.50		Pass
HT20	MCS0	1	36	5180	-	-	-	7.38		-	11.00	-	3.50		Pass
HT20	MCS0	1	44	5220	-	-	-	7.38		-	11.00	-	3.50		Pass
HT20	MCS0	1	48	5240	-	-	-	7.17		-	11.00	-	3.50		Pass
HT40	MCS0	1	38	5190	-	-	-	1.16		-	11.00	-	3.50		Pass
HT40	MCS0	1	46	5230	-	-	-	3.95		-	11.00	-	3.50		Pass
VHT80	MCS0	1	42	5210	-	-	-	-2.66		-	11.00	-	3.50		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	-	17.03	-	34.77	-	23.31	-	29.31	-	23.98	
11a	6Mbps	1	60	5300	-	16.93	-	32.47	-	23.29	-	29.29	-	23.98	
11a	6Mbps	1	64	5320	-	16.93	-	32.52	-	23.29	-	29.29	-	23.98	
HT20	MCS0	1	52	5260	-	17.93	-	34.97	-	23.54	-	29.54	-	23.98	
HT20	MCS0	1	60	5300	-	17.93	-	31.47	-	23.54	-	29.54	-	23.98	
HT20	MCS0	1	64	5320	-	17.93	-	33.37	-	23.54	-	29.54	-	23.98	
HT40	MCS0	1	54	5270	-	37.06	-	60.96	-	23.98	-	30.00	-	23.98	
HT40	MCS0	1	62	5310	-	36.66	-	45.22	-	23.98	-	30.00	-	23.98	
VHT80	MCS0	1	58	5290	-	76.72	-	86.15	-	23.98	-	30.00	-	23.98	

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TEST RESULTS DATA
Average Power Table

FCC Band II													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	-	18.00		-	23.98	-	3.50	26.99	Pass
11a	6Mbps	1	60	5300	-	17.90		-	23.98	-	3.50	26.99	Pass
11a	6Mbps	1	64	5320	-	17.70		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	52	5260	-	18.00		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	60	5300	-	17.70		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	64	5320	-	17.70		-	23.98	-	3.50	26.99	Pass
HT40	MCS0	1	54	5270	-	18.20		-	23.98	-	3.50	26.99	Pass
HT40	MCS0	1	62	5310	-	15.80		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	52	5260	-	17.90		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	60	5300	-	17.60		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	64	5320	-	17.60		-	23.98	-	3.50	26.99	Pass
VHT40	MCS0	1	54	5270	-	18.10		-	23.98	-	3.50	26.99	Pass
VHT40	MCS0	1	62	5310	-	15.70		-	23.98	-	3.50	26.99	Pass
VHT80	MCS0	1	58	5290	-	15.60		-	23.98	-	3.50	26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	-	-	-	7.83		-	11.00	-	3.50		Pass
11a	6Mbps	1	60	5300	-	-	-	7.48		-	11.00	-	3.50		Pass
11a	6Mbps	1	64	5320	-	-	-	7.48		-	11.00	-	3.50		Pass
HT20	MCS0	1	52	5260	-	-	-	7.39		-	11.00	-	3.50		Pass
HT20	MCS0	1	60	5300	-	-	-	7.21		-	11.00	-	3.50		Pass
HT20	MCS0	1	64	5320	-	-	-	7.21		-	11.00	-	3.50		Pass
HT40	MCS0	1	54	5270	-	-	-	4.37		-	11.00	-	3.50		Pass
HT40	MCS0	1	62	5310	-	-	-	1.91		-	11.00	-	3.50		Pass
VHT80	MCS0	1	58	5290	-	-	-	-1.77		-	11.00	-	3.50		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	-	16.98	-	34.82	-	23.30	-	29.30	-	23.98	----	----
11a	6Mbps	1	116	5580	-	16.93	-	30.02	-	23.29	-	29.29	-	23.98	----	----
11a	6Mbps	1	140	5700	-	16.93	-	29.62	-	23.29	-	29.29	-	23.98	----	----
11a	6Mbps	1	144	5720	-	13.39	-	17.59	-	22.27	-	28.27	-	23.45	-	3.142
HT20	MCS0	1	100	5500	-	18.03	-	35.51	-	23.56	-	29.56	-	23.98	----	----
HT20	MCS0	1	116	5580	-	18.03	-	31.77	-	23.56	-	29.56	-	23.98	----	----
HT20	MCS0	1	140	5700	-	17.88	-	31.57	-	23.52	-	29.52	-	23.98	----	----
HT20	MCS0	1	144	5720	-	13.94	-	19.29	-	22.44	-	28.44	-	23.85	-	3.742
HT40	MCS0	1	102	5510	-	36.66	-	52.87	-	23.98	-	30.00	-	23.98	----	----
HT40	MCS0	1	110	5550	-	36.86	-	60.51	-	23.98	-	30.00	-	23.98	----	----
HT40	MCS0	1	134	5670	-	37.56	-	79.39	-	23.98	-	30.00	-	23.98	----	----
HT40	MCS0	1	142	5710	-	33.78	-	48.27	-	23.98	-	30.00	-	23.98	-	3.162
VHT80	MCS0	1	106	5530	-	76.84	-	81.20	-	23.98	-	30.00	-	23.98	----	----
VHT80	MCS0	1	122	5610	-	77.20	-	128.83	-	23.98	-	30.00	-	23.98	----	----
VHT80	MCS0	1	138	5690	-	73.84	-	109.97	-	23.98	-	30.00	-	23.98	-	3.204

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TEST RESULTS DATA
Average Power Table

FCC Band III													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	-	18.40		-	23.98	-	3.50	26.99	Pass
11a	6Mbps	1	116	5580	-	17.00		-	23.98	-	3.50	26.99	Pass
11a	6Mbps	1	140	5700	-	16.90		-	23.98	-	3.50	26.99	Pass
11a	6Mbps	1	144	5720	-	15.60		-	23.45	-	3.50	26.99	Pass
HT20	MCS0	1	100	5500	-	18.30		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	116	5580	-	16.90		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	140	5700	-	16.80		-	23.98	-	3.50	26.99	Pass
HT20	MCS0	1	144	5720	-	15.50		-	23.85	-	3.50	26.99	Pass
HT40	MCS0	1	102	5510	-	16.00		-	23.98	-	3.50	26.99	Pass
HT40	MCS0	1	110	5550	-	17.40		-	23.98	-	3.50	26.99	Pass
HT40	MCS0	1	134	5670	-	18.60		-	23.98	-	3.50	26.99	Pass
HT40	MCS0	1	142	5710	-	17.40		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	100	5500	-	18.20		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	116	5580	-	16.80		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	140	5700	-	16.70		-	23.98	-	3.50	26.99	Pass
VHT20	MCS0	1	144	5720	-	15.40		-	23.85	-	3.50	26.99	Pass
VHT40	MCS0	1	102	5510	-	15.90		-	23.98	-	3.50	26.99	Pass
VHT40	MCS0	1	110	5550	-	17.30		-	23.98	-	3.50	26.99	Pass
VHT40	MCS0	1	134	5670	-	18.50		-	23.98	-	3.50	26.99	Pass
VHT40	MCS0	1	142	5710	-	17.30		-	23.98	-	3.50	26.99	Pass
VHT80	MCS0	1	106	5530	-	14.30		-	23.98	-	3.50	26.99	Pass
VHT80	MCS0	1	122	5610	-	17.50		-	23.98	-	3.50	26.99	Pass
VHT80	MCS0	1	138	5690	-	17.80		-	23.98	-	3.50	26.99	Pass

Report Number : FR921234-01D

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	-	-	-	7.92		-	11.00	-	3.50		Pass
11a	6Mbps	1	116	5580	-	-	-	7.15		-	11.00	-	3.50		Pass
11a	6Mbps	1	140	5700	-	-	-	7.00		-	11.00	-	3.50		Pass
11a	6Mbps	1	144	5720	-	-	-	5.88		-	11.00	-	3.50		Pass
HT20	MCS0	1	100	5500	-	-	-	7.59		-	11.00	-	3.50		Pass
HT20	MCS0	1	116	5580	-	-	-	6.70		-	11.00	-	3.50		Pass
HT20	MCS0	1	140	5700	-	-	-	6.32		-	11.00	-	3.50		Pass
HT20	MCS0	1	144	5720	-	-	-	5.23		-	11.00	-	3.50		Pass
HT40	MCS0	1	102	5510	-	-	-	1.98		-	11.00	-	3.50		Pass
HT40	MCS0	1	110	5550	-	-	-	3.50		-	11.00	-	3.50		Pass
HT40	MCS0	1	134	5670	-	-	-	4.91		-	11.00	-	3.50		Pass
HT40	MCS0	1	142	5710	-	-	-	3.49		-	11.00	-	3.50		Pass
VHT80	MCS0	1	106	5530	-	-	-	-3.16		-	11.00	-	3.50		Pass
VHT80	MCS0	1	122	5610	-	-	-	0.26		-	11.00	-	3.50		Pass
VHT80	MCS0	1	138	5690	-	-	-	0.69		-	11.00	-	3.50		Pass

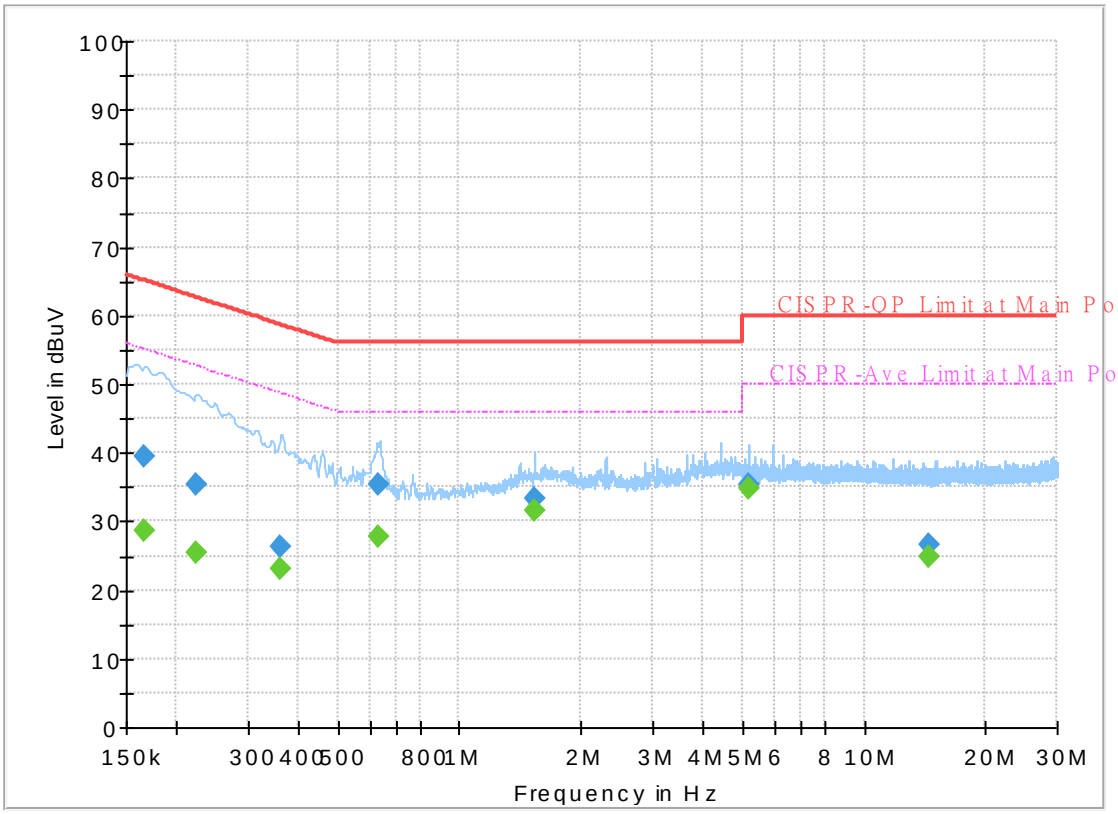
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

EUT Information

Report NO :	921234-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



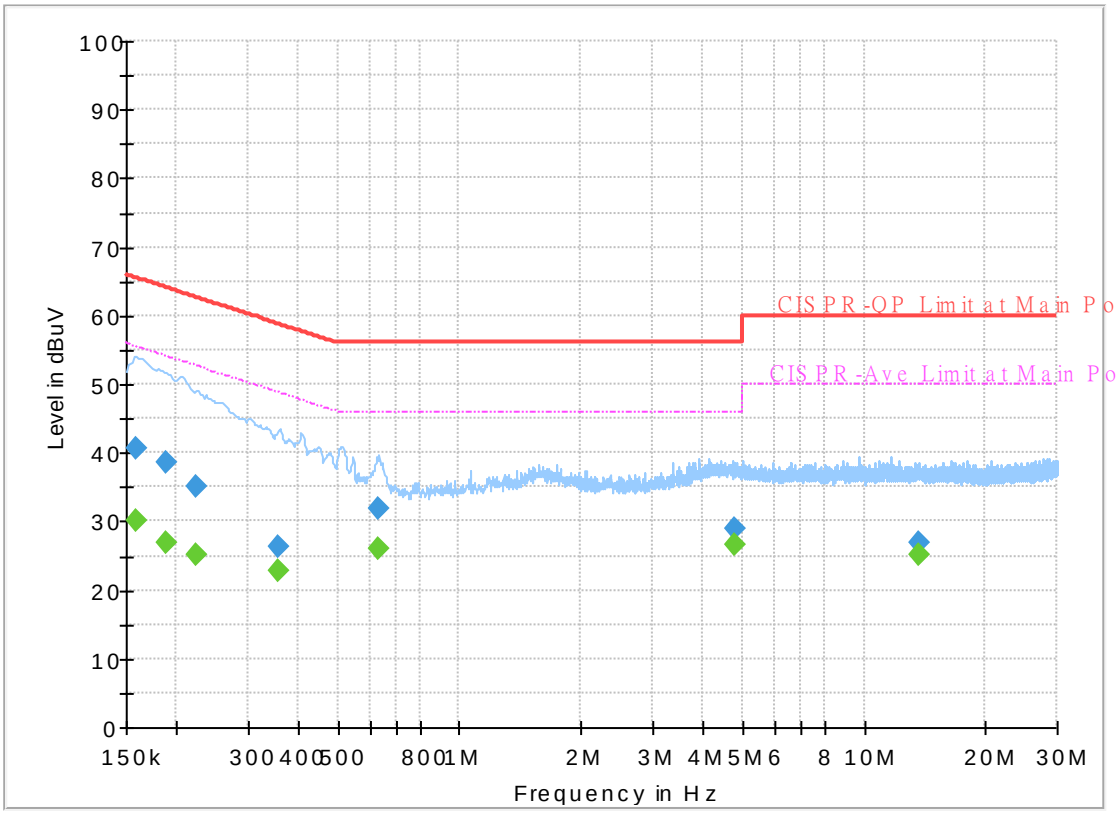
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	28.67	55.17	26.50	L1	OFF	19.4
0.165750	39.58	---	65.17	25.59	L1	OFF	19.4
0.224250	---	25.30	52.66	27.36	L1	OFF	19.4
0.224250	35.40	---	62.66	27.26	L1	OFF	19.4
0.361500	---	22.97	48.69	25.72	L1	OFF	19.4
0.361500	26.25	---	58.69	32.44	L1	OFF	19.4
0.631500	---	27.77	46.00	18.23	L1	OFF	19.4
0.631500	35.39	---	56.00	20.61	L1	OFF	19.4
1.531500	---	31.70	46.00	14.30	L1	OFF	19.5
1.531500	33.40	---	56.00	22.60	L1	OFF	19.5
5.169750	---	34.77	50.00	15.23	L1	OFF	19.6
5.169750	35.52	---	60.00	24.48	L1	OFF	19.6
14.525250	---	25.00	50.00	25.00	L1	OFF	20.0
14.525250	26.62	---	60.00	33.38	L1	OFF	20.0

EUT Information

Report NO :	921234-01
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)
0.159000	---	29.98	55.52	25.54	N	OFF	19.5
0.159000	40.77	---	65.52	24.75	N	OFF	19.5
0.188250	---	26.85	54.11	27.26	N	OFF	19.5
0.188250	38.58	---	64.11	25.53	N	OFF	19.5
0.224250	---	25.02	52.66	27.64	N	OFF	19.5
0.224250	35.17	---	62.66	27.49	N	OFF	19.5
0.357000	---	22.85	48.80	25.95	N	OFF	19.5
0.357000	26.20	---	58.80	32.60	N	OFF	19.5
0.633750	---	25.88	46.00	20.12	N	OFF	19.5
0.633750	31.74	---	56.00	24.26	N	OFF	19.5
4.785000	---	26.64	46.00	19.36	N	OFF	19.7
4.785000	28.86	---	56.00	27.14	N	OFF	19.7
13.670250	---	25.25	50.00	24.75	N	OFF	20.0
13.670250	27.03	---	60.00	32.97	N	OFF	20.0

Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Hung, Austin Li, and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5149.5	62.62	-11.38	74	46.52	32.62	13.2	29.72	296	313	P	H
		5150	50.13	-3.87	54	34.03	32.62	13.2	29.72	296	313	A	H
	*	5180	112.44	-	-	96.45	32.58	13.13	29.72	296	313	P	H
	*	5180	104.21	-	-	88.22	32.58	13.13	29.72	296	313	A	H
		5148.2	65.05	-8.95	74	48.95	32.62	13.2	29.72	293	48	P	V
		5150	52.43	-1.57	54	36.33	32.62	13.2	29.72	293	48	A	V
	*	5180	114.47	-	-	98.48	32.58	13.13	29.72	293	48	P	V
	*	5180	106.43	-	-	90.44	32.58	13.13	29.72	293	48	A	V
802.11a CH 44 5220MHz		5133.12	55.93	-18.07	74	39.77	32.64	13.24	29.72	258	255	P	H
		5149.5	45.29	-8.71	54	29.19	32.62	13.2	29.72	258	255	A	H
	*	5220	112.08	-	-	96.19	32.54	13.07	29.72	258	255	P	H
	*	5220	103.81	-	-	87.92	32.54	13.07	29.72	258	255	A	H
		5410.44	55.06	-18.94	74	39.49	32.31	12.99	29.73	258	255	P	H
		5350	43.29	-10.71	54	27.66	32.38	12.98	29.73	258	255	A	H
		5142.74	56.52	-17.48	74	40.39	32.63	13.22	29.72	277	36	P	V
		5149.5	45.73	-8.27	54	29.63	32.62	13.2	29.72	277	36	A	V
	*	5220	113.43	-	-	97.54	32.54	13.07	29.72	277	36	P	V
	*	5220	104.79	-	-	88.9	32.54	13.07	29.72	277	36	A	V
		5350.52	55.14	-18.86	74	39.51	32.38	12.98	29.73	277	36	P	V
		5350.24	43.71	-10.29	54	28.08	32.38	12.98	29.73	277	36	A	V

802.11a CH 48 5240MHz		5105.82	56.55	-17.45	74	40.29	32.67	13.31	29.72	285	326	P	H
		5148.46	45.24	-8.76	54	29.14	32.62	13.2	29.72	285	326	A	H
	*	5240	112.05	-	-	96.21	32.51	13.05	29.72	285	326	P	H
	*	5240	103.67	-	-	87.83	32.51	13.05	29.72	285	326	A	H
		5394.48	54.33	-19.67	74	38.78	32.33	12.95	29.73	285	326	P	H
		5350.52	43.74	-10.26	54	28.11	32.38	12.98	29.73	285	326	A	H
		5150	56.99	-17.01	74	40.89	32.62	13.2	29.72	307	41	P	V
		5148.2	45.98	-8.02	54	29.88	32.62	13.2	29.72	307	41	A	V
	*	5240	113.62	-	-	97.78	32.51	13.05	29.72	307	41	P	V
	*	5240	105.35	-	-	89.51	32.51	13.05	29.72	307	41	A	V
		5364.24	54.81	-19.19	74	39.21	32.36	12.97	29.73	307	41	P	V
		5352.76	44.51	-9.49	54	28.88	32.38	12.98	29.73	307	41	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	50.35	-17.85	68.2	53.73	39.9	17.48	60.76	100	0	P	H
		15540	45.52	-28.48	74	47.66	37.9	21.51	61.55	100	0	P	H
		10360	52.37	-15.83	68.2	55.75	39.9	17.48	60.76	100	0	P	V
		15540	45.57	-28.43	74	47.71	37.9	21.51	61.55	100	0	P	V
802.11a CH 44 5220MHz		10440	47.49	-20.71	68.2	50.88	40.02	17.55	60.96	100	0	P	H
		15660	44.03	-29.97	74	46.01	37.9	21.53	61.41	100	0	P	H
		10440	47.14	-21.06	68.2	50.53	40.02	17.55	60.96	100	0	P	V
		15660	45.62	-28.38	74	47.6	37.9	21.53	61.41	100	0	P	V
802.11a CH 48 5240MHz		10480	48.77	-19.43	68.2	52.17	40.07	17.58	61.05	100	0	P	H
		15720	45.97	-28.03	74	47.87	37.9	21.54	61.34	100	0	P	H
		10480	48.42	-19.78	68.2	51.82	40.07	17.58	61.05	100	0	P	V
		15720	46.44	-27.56	74	48.34	37.9	21.54	61.34	100	0	P	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		5148.46	62.01	-11.99	74	45.91	32.62	13.2	29.72	295	312	P	H
		5150	50.89	-3.11	54	34.79	32.62	13.2	29.72	295	312	A	H
	*	5180	112.26	-	-	96.27	32.58	13.13	29.72	295	312	P	H
	*	5180	104.05	-	-	88.06	32.58	13.13	29.72	295	312	A	H
		5149.76	64.64	-9.36	74	48.54	32.62	13.2	29.72	294	46	P	V
		5150	53.34	-0.66	54	37.24	32.62	13.2	29.72	294	46	A	V
	*	5180	114.49	-	-	98.5	32.58	13.13	29.72	294	46	P	V
	*	5180	106.37	-	-	90.38	32.58	13.13	29.72	294	46	A	V
802.11n HT20 CH 44 5220MHz		5092.82	55.92	-18.08	74	39.61	32.69	13.34	29.72	280	270	P	H
		5150	45.17	-8.83	54	29.07	32.62	13.2	29.72	280	270	A	H
	*	5220	112.03	-	-	96.14	32.54	13.07	29.72	280	270	P	H
	*	5220	103.98	-	-	88.09	32.54	13.07	29.72	280	270	A	H
		5437.6	54.02	-19.98	74	38.41	32.27	13.08	29.74	280	270	P	H
		5350.24	43.15	-10.85	54	27.52	32.38	12.98	29.73	280	270	A	H
		5141.7	56.19	-17.81	74	40.06	32.63	13.22	29.72	297	41	P	V
		5149.5	45.54	-8.46	54	29.44	32.62	13.2	29.72	297	41	A	V
	*	5220	113.44	-	-	97.55	32.54	13.07	29.72	297	41	P	V
	*	5220	104.79	-	-	88.9	32.54	13.07	29.72	297	41	A	V
		5351.92	54.2	-19.8	74	38.57	32.38	12.98	29.73	297	41	P	V
		5350.24	43.83	-10.17	54	28.2	32.38	12.98	29.73	297	41	A	V

802.11n HT20 CH 48 5240MHz		5135.72	56.48	-17.52	74	40.33	32.64	13.23	29.72	257	255	P	H
		5149.5	45.38	-8.62	54	29.28	32.62	13.2	29.72	257	255	A	H
	*	5240	112.29	-	-	96.45	32.51	13.05	29.72	257	255	P	H
	*	5240	104.02	-	-	88.18	32.51	13.05	29.72	257	255	A	H
		5367.6	55.34	-18.66	74	39.74	32.36	12.97	29.73	257	255	P	H
		5351.36	43.82	-10.18	54	28.19	32.38	12.98	29.73	257	255	A	H
		5136.76	56.79	-17.21	74	40.64	32.64	13.23	29.72	289	40	P	V
		5149.5	45.95	-8.05	54	29.85	32.62	13.2	29.72	289	40	A	V
	*	5240	113.51	-	-	97.67	32.51	13.05	29.72	289	40	P	V
	*	5240	105.17	-	-	89.33	32.51	13.05	29.72	289	40	A	V
		5358.64	54.99	-19.01	74	39.37	32.37	12.98	29.73	289	40	P	V
		5351.36	44.71	-9.29	54	29.08	32.38	12.98	29.73	289	40	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10360	48.82	-19.38	68.2	52.2	39.9	17.48	60.76	100	0	P	H
HT20		15540	44.33	-29.67	74	46.47	37.9	21.51	61.55	100	0	P	H
CH 36		10360	49.86	-18.34	68.2	53.24	39.9	17.48	60.76	100	0	P	V
5180MHz		15540	46.05	-27.95	74	48.19	37.9	21.51	61.55	100	0	P	V
802.11n		10440	48.17	-20.03	68.2	51.56	40.02	17.55	60.96	100	0	P	H
HT20		15660	43.53	-30.47	74	45.51	37.9	21.53	61.41	100	0	P	H
CH 44		10440	47.68	-20.52	68.2	51.07	40.02	17.55	60.96	100	0	P	V
5220MHz		15660	44.6	-29.4	74	46.58	37.9	21.53	61.41	100	0	P	V
802.11n		10480	47.3	-20.9	68.2	50.7	40.07	17.58	61.05	100	0	P	H
HT20		15720	45.43	-28.57	74	47.33	37.9	21.54	61.34	100	0	P	H
CH 48		10480	47.99	-20.21	68.2	51.39	40.07	17.58	61.05	100	0	P	V
5240MHz		15720	45.95	-28.05	74	47.85	37.9	21.54	61.34	100	0	P	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		5149.76	65.37	-8.63	74	49.27	32.62	13.2	29.72	294	314	P	H
		5150	51.78	-2.22	54	35.68	32.62	13.2	29.72	294	314	A	H
	*	5190	106.22	-	-	90.27	32.57	13.1	29.72	294	314	P	H
	*	5190	98.41	-	-	82.46	32.57	13.1	29.72	294	314	A	H
		5369.28	53.75	-20.25	74	38.15	32.36	12.97	29.73	294	314	P	H
		5350.52	42.61	-11.39	54	26.98	32.38	12.98	29.73	294	314	A	H
		5149.76	64.17	-9.83	74	48.07	32.62	13.2	29.72	294	49	P	V
		5149.76	52.62	-1.38	54	36.52	32.62	13.2	29.72	294	49	A	V
	*	5190	108.83	-	-	92.88	32.57	13.1	29.72	294	49	P	V
	*	5190	100.18	-	-	84.23	32.57	13.1	29.72	294	49	A	V
		5441.52	54.64	-19.36	74	39.01	32.27	13.1	29.74	294	49	P	V
		5350	43.53	-10.47	54	27.9	32.38	12.98	29.73	294	49	A	V
802.11n HT40 CH 46 5230MHz		5146.64	57.16	-16.84	74	41.05	32.62	13.21	29.72	256	266	P	H
		5150	46.76	-7.24	54	30.66	32.62	13.2	29.72	256	266	A	H
	*	5230	109.57	-	-	93.71	32.52	13.06	29.72	256	266	P	H
	*	5230	100.75	-	-	84.89	32.52	13.06	29.72	256	266	A	H
		5359.2	55.12	-18.88	74	39.5	32.37	12.98	29.73	256	266	P	H
		5350.24	43.3	-10.7	54	27.67	32.38	12.98	29.73	256	266	A	H
		5141.96	57.88	-16.12	74	41.75	32.63	13.22	29.72	293	40	P	V
		5150	46.95	-7.05	54	30.85	32.62	13.2	29.72	293	40	A	V
	*	5230	110.33	-	-	94.47	32.52	13.06	29.72	293	40	P	V
	*	5230	101.96	-	-	86.1	32.52	13.06	29.72	293	40	A	V
		5350.24	54.1	-19.9	74	38.47	32.38	12.98	29.73	293	40	P	V
		5350.8	44.35	-9.65	54	28.72	32.38	12.98	29.73	293	40	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10380	48.1	-20.1	68.2	51.48	39.93	17.5	60.81	100	0	P	H
HT40		15570	44	-30	74	46.1	37.9	21.52	61.52	100	0	P	H
CH 38		10380	46.16	-22.04	68.2	49.54	39.93	17.5	60.81	100	0	P	V
5190MHz		15570	43.7	-30.3	74	45.8	37.9	21.52	61.52	100	0	P	V
802.11n		10460	47.26	-20.94	68.2	50.66	40.04	17.56	61	100	0	P	H
HT40		15690	44.62	-29.38	74	46.55	37.9	21.54	61.37	100	0	P	H
CH 46		10460	48.59	-19.61	68.2	51.99	40.04	17.56	61	100	0	P	V
5230MHz		15690	45.06	-28.94	74	46.99	37.9	21.54	61.37	100	0	P	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5143.52	65.36	-8.64	74	49.23	32.63	13.22	29.72	254	258	P	H
		5150	51.69	-2.31	54	35.59	32.62	13.2	29.72	254	258	A	H
	*	5210	103.79	-	-	87.89	32.55	13.07	29.72	254	258	P	H
	*	5210	94.34	-	-	78.44	32.55	13.07	29.72	254	258	A	H
		5456.92	53.38	-20.62	74	37.72	32.25	13.15	29.74	254	258	P	H
		5351.08	42.99	-11.01	54	27.36	32.38	12.98	29.73	254	258	A	H
		5148.72	64.49	-9.51	74	48.39	32.62	13.2	29.72	293	47	P	V
		5150	52.91	-1.09	54	36.81	32.62	13.2	29.72	293	47	A	V
	*	5210	104.68	-	-	88.78	32.55	13.07	29.72	293	47	P	V
	*	5210	96.26	-	-	80.36	32.55	13.07	29.72	293	47	A	V
		5354.72	54.77	-19.23	74	39.15	32.37	12.98	29.73	293	47	P	V
		5350	43.83	-10.17	54	28.2	32.38	12.98	29.73	293	47	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac		10420	45.72	-22.48	68.2	49.11	39.99	17.53	60.91	100	0	P	H
VHT80		15630	44.32	-29.68	74	46.33	37.9	21.53	61.44	100	0	P	H
CH 42		10420	45.82	-22.38	68.2	49.21	39.99	17.53	60.91	100	0	P	V
5210MHz		15630	44.11	-29.89	74	46.12	37.9	21.53	61.44	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5132.26	55.72	-18.28	74	39.56	32.64	13.24	29.72	262	253	P	H
		5147.9	44.72	-9.28	54	28.61	32.62	13.21	29.72	262	253	A	H
	*	5260	112.14	-	-	96.34	32.49	13.04	29.73	262	253	P	H
	*	5260	103.68	-	-	87.88	32.49	13.04	29.73	262	253	A	H
		5374.32	54.33	-19.67	74	38.74	32.35	12.97	29.73	262	253	P	H
		5350.08	43.79	-10.21	54	28.16	32.38	12.98	29.73	262	253	A	H
		5128.18	55.21	-18.79	74	39.03	32.65	13.25	29.72	356	56	P	V
		5147.56	44.6	-9.4	54	28.49	32.62	13.21	29.72	356	56	A	V
	*	5260	113.28	-	-	97.48	32.49	13.04	29.73	356	56	P	V
	*	5260	105.04	-	-	89.24	32.49	13.04	29.73	356	56	A	V
		5353.68	56.54	-17.46	74	40.91	32.38	12.98	29.73	356	56	P	V
		5350.08	45.06	-8.94	54	29.43	32.38	12.98	29.73	356	56	A	V
802.11a CH 60 5300MHz		5140.08	54.5	-19.5	74	38.37	32.63	13.22	29.72	261	253	P	H
		5148.58	43.87	-10.13	54	27.77	32.62	13.2	29.72	261	253	A	H
	*	5300	111.45	-	-	95.73	32.44	13.01	29.73	261	253	P	H
	*	5300	103.26	-	-	87.54	32.44	13.01	29.73	261	253	A	H
		5386.32	54.77	-19.23	74	39.2	32.34	12.96	29.73	261	253	P	H
		5350.32	44.25	-9.75	54	28.62	32.38	12.98	29.73	261	253	A	H
		5042.5	55.28	-18.72	74	38.78	32.75	13.46	29.71	347	55	P	V
		5149.6	44.01	-9.99	54	27.91	32.62	13.2	29.72	347	55	A	V
	*	5300	113.36	-	-	97.64	32.44	13.01	29.73	347	55	P	V
	*	5300	105.48	-	-	89.76	32.44	13.01	29.73	347	55	A	V
		5355.6	55.26	-18.74	74	39.64	32.37	12.98	29.73	347	55	P	V
		5350.32	45.43	-8.57	54	29.8	32.38	12.98	29.73	347	55	A	V

802.11a CH 64 5320MHz	*	5320	112.45	-	-	96.76	32.42	13	29.73	281	328	P	H
	*	5320	104.38	-	-	88.69	32.42	13	29.73	281	328	A	H
		5351.36	57.89	-16.11	74	42.26	32.38	12.98	29.73	281	328	P	H
		5350.08	48.26	-5.74	54	32.63	32.38	12.98	29.73	281	328	A	H
	*	5320	114.31	-	-	98.62	32.42	13	29.73	281	56	P	V
	*	5320	106.04	-	-	90.35	32.42	13	29.73	281	56	A	V
		5350.08	60.84	-13.16	74	45.21	32.38	12.98	29.73	281	56	P	V
		5350.08	49.95	-4.05	54	34.32	32.38	12.98	29.73	281	56	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		10520	47.81	-20.39	68.2	51.22	40.1	17.61	61.12	100	0	P	H
		15780	43.49	-30.51	74	45.29	37.9	21.56	61.26	100	0	P	H
		10520	48.76	-19.44	68.2	52.17	40.1	17.61	61.12	100	0	P	V
		15780	44.21	-29.79	74	46.01	37.9	21.56	61.26	100	0	P	V
802.11a CH 60 5300MHz		10600	46.89	-27.11	74	50.33	40.1	17.68	61.22	100	0	P	H
		15900	44.01	-29.99	74	45.65	37.9	21.58	61.12	100	0	P	H
		10600	47.12	-26.88	74	50.56	40.1	17.68	61.22	100	0	P	V
		15900	44.28	-29.72	74	45.92	37.9	21.58	61.12	100	0	P	V
802.11a CH 64 5320MHz		10640	46.57	-27.43	74	50.04	40.1	17.7	61.27	100	0	P	H
		15960	44.48	-29.52	74	46.04	37.9	21.59	61.05	100	0	P	H
		10640	46.76	-27.24	74	50.23	40.1	17.7	61.27	100	0	P	V
		15960	44.8	-29.2	74	46.36	37.9	21.59	61.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5130.22	55.15	-18.85	74	38.98	32.64	13.25	29.72	264	250	P	H
		5148.24	44.28	-9.72	54	28.18	32.62	13.2	29.72	264	250	A	H
	*	5260	111.74	-	-	95.94	32.49	13.04	29.73	264	250	P	H
	*	5260	103.65	-	-	87.85	32.49	13.04	29.73	264	250	A	H
		5412.48	55.1	-18.9	74	39.53	32.31	12.99	29.73	264	250	P	H
		5350.56	43.65	-10.35	54	28.02	32.38	12.98	29.73	264	250	A	H
		5149.6	57.11	-16.89	74	41.01	32.62	13.2	29.72	373	52	P	V
		5148.58	45.08	-8.92	54	28.98	32.62	13.2	29.72	373	52	A	V
	*	5260	113.48	-	-	97.68	32.49	13.04	29.73	373	52	P	V
	*	5260	105.58	-	-	89.78	32.49	13.04	29.73	373	52	A	V
		5355.6	55.34	-18.66	74	39.72	32.37	12.98	29.73	373	52	P	V
		5350.8	44.58	-9.42	54	28.95	32.38	12.98	29.73	373	52	A	V
802.11n HT20 CH 60 5300MHz		5082.28	54.84	-19.16	74	38.49	32.7	13.36	29.71	262	253	P	H
		5149.6	43.88	-10.12	54	27.78	32.62	13.2	29.72	262	253	A	H
	*	5300	111.41	-	-	95.69	32.44	13.01	29.73	262	253	P	H
	*	5300	103.33	-	-	87.61	32.44	13.01	29.73	262	253	A	H
		5365.44	55.14	-18.86	74	39.54	32.36	12.97	29.73	262	253	P	H
		5351.28	44.23	-9.77	54	28.6	32.38	12.98	29.73	262	253	A	H
		5119.68	54.85	-19.15	74	38.64	32.66	13.27	29.72	344	55	P	V
		5149.94	43.89	-10.11	54	27.79	32.62	13.2	29.72	344	55	A	V
	*	5300	112.7	-	-	96.98	32.44	13.01	29.73	344	55	P	V
	*	5300	105.12	-	-	89.4	32.44	13.01	29.73	344	55	A	V
		5357.04	55.73	-18.27	74	40.11	32.37	12.98	29.73	344	55	P	V
		5350.8	45.49	-8.51	54	29.86	32.38	12.98	29.73	344	55	A	V

802.11n HT20 CH 64 5320MHz	*	5320	111.39	-	-	95.7	32.42	13	29.73	244	262	P	H
	*	5320	103.27	-	-	87.58	32.42	13	29.73	244	262	A	H
		5350.4	60.39	-13.61	74	44.76	32.38	12.98	29.73	244	262	P	H
		5350.08	48.38	-5.62	54	32.75	32.38	12.98	29.73	244	262	A	H
	*	5320	114.18	-	-	98.49	32.42	13	29.73	293	48	P	V
	*	5320	105.86	-	-	90.17	32.42	13	29.73	293	48	A	V
		5353.92	61.54	-12.46	74	45.91	32.38	12.98	29.73	293	48	P	V
		5350.08	51.15	-2.85	54	35.52	32.38	12.98	29.73	293	48	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10520	47.25	-20.95	68.2	50.66	40.1	17.61	61.12	100	0	P	H
HT20		15780	44.55	-29.45	74	46.35	37.9	21.56	61.26	100	0	P	H
CH 52		10520	48.52	-19.68	68.2	51.93	40.1	17.61	61.12	100	0	P	V
5260MHz		15780	44.68	-29.32	74	46.48	37.9	21.56	61.26	100	0	P	V
802.11n		10600	46.74	-27.26	74	50.18	40.1	17.68	61.22	100	0	P	H
HT20		15900	43.6	-30.4	74	45.24	37.9	21.58	61.12	100	0	P	H
CH 60		10600	47.64	-26.36	74	51.08	40.1	17.68	61.22	100	0	P	V
5300MHz		15900	44.12	-29.88	74	45.76	37.9	21.58	61.12	100	0	P	V
802.11n		10640	47.27	-26.73	74	50.74	40.1	17.7	61.27	100	0	P	H
HT20		15960	44.14	-29.86	74	45.7	37.9	21.59	61.05	100	0	P	H
CH 64		10640	46.67	-27.33	74	50.14	40.1	17.7	61.27	100	0	P	V
5320MHz		15960	44.66	-29.34	74	46.22	37.9	21.59	61.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		5141.44	54.85	-19.15	74	38.72	32.63	13.22	29.72	263	252	P	H
		5149.94	44.54	-9.46	54	28.44	32.62	13.2	29.72	263	252	A	H
	*	5270	109.1	-	-	93.32	32.48	13.03	29.73	263	252	P	H
	*	5270	100.74	-	-	84.96	32.48	13.03	29.73	263	252	A	H
		5393.04	56	-18	74	40.45	32.33	12.95	29.73	263	252	P	H
		5350.08	44.88	-9.12	54	29.25	32.38	12.98	29.73	263	252	A	H
		5142.46	56.53	-17.47	74	40.4	32.63	13.22	29.72	369	50	P	V
		5148.92	45.11	-8.89	54	29.01	32.62	13.2	29.72	369	50	A	V
	*	5270	110.46	-	-	94.68	32.48	13.03	29.73	369	50	P	V
	*	5270	102.54	-	-	86.76	32.48	13.03	29.73	369	50	A	V
		5359.2	56.14	-17.86	74	40.52	32.37	12.98	29.73	369	50	P	V
		5350.08	46.25	-7.75	54	30.62	32.38	12.98	29.73	369	50	A	V
802.11n HT40 CH 62 5310MHz		5058.48	54.89	-19.11	74	38.45	32.73	13.42	29.71	268	319	P	H
		5149.94	43.94	-10.06	54	27.84	32.62	13.2	29.72	268	319	A	H
	*	5310	106.28	-	-	90.57	32.43	13.01	29.73	268	319	P	H
	*	5310	98.43	-	-	82.72	32.43	13.01	29.73	268	319	A	H
		5350.8	62.86	-11.14	74	47.23	32.38	12.98	29.73	268	319	P	H
		5350.08	49.86	-4.14	54	34.23	32.38	12.98	29.73	268	319	A	H
		5113.56	55.51	-18.49	74	39.28	32.66	13.29	29.72	285	48	P	V
		5147.56	44.27	-9.73	54	28.16	32.62	13.21	29.72	285	48	A	V
	*	5310	110.15	-	-	94.44	32.43	13.01	29.73	285	48	P	V
	*	5310	101.54	-	-	85.83	32.43	13.01	29.73	285	48	A	V
		5352.48	65.08	-8.92	74	49.45	32.38	12.98	29.73	285	48	P	V
		5350.08	53.14	-0.86	54	37.51	32.38	12.98	29.73	285	48	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		10540	45.41	-22.79	68.2	48.83	40.1	17.63	61.15	100	0	P	H
HT40		15810	44.39	-29.61	74	46.15	37.9	21.57	61.23	100	0	P	H
CH 54		10540	46.12	-22.08	68.2	49.54	40.1	17.63	61.15	100	0	P	V
5270MHz		15810	45.17	-28.83	74	46.93	37.9	21.57	61.23	100	0	P	V
802.11n		10620	46.43	-27.57	74	49.88	40.1	17.69	61.24	100	0	P	H
HT40		15930	44.89	-29.11	74	46.48	37.9	21.59	61.08	100	0	P	H
CH 62		10620	46.26	-27.74	74	49.71	40.1	17.69	61.24	100	0	P	V
5310MHz		15930	43.96	-30.04	74	45.55	37.9	21.59	61.08	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 58 5290MHz		5146.2	55.66	-18.34	74	39.55	32.62	13.21	29.72	283	327	P	H
		5149.94	44.7	-9.3	54	28.6	32.62	13.2	29.72	283	327	A	H
	*	5290	103.69	-	-	87.95	32.45	13.02	29.73	283	327	P	H
	*	5290	94.76	-	-	79.02	32.45	13.02	29.73	283	327	A	H
		5353.68	60.68	-13.32	74	45.05	32.38	12.98	29.73	283	327	P	H
		5350.08	48.98	-5.02	54	33.35	32.38	12.98	29.73	283	327	A	H
		5012.92	55.31	-18.69	74	38.71	32.78	13.53	29.71	281	46	P	V
		5149.94	45.14	-8.86	54	29.04	32.62	13.2	29.72	281	46	A	V
	*	5290	106.18	-	-	90.44	32.45	13.02	29.73	281	46	P	V
	*	5290	97.47	-	-	81.73	32.45	13.02	29.73	281	46	A	V
		5353.92	69.86	-4.14	74	54.23	32.38	12.98	29.73	281	46	P	V
		5350.08	51.83	-2.17	54	36.2	32.38	12.98	29.73	281	46	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac		10580	46.42	-21.78	68.2	49.86	40.1	17.66	61.2	100	0	P	H
VHT80		15870	44.28	-29.72	74	45.96	37.9	21.58	61.16	100	0	P	H
CH 58		10580	45.23	-22.97	68.2	48.67	40.1	17.66	61.2	100	0	P	V
5290MHz		15870	43.93	-30.07	74	45.61	37.9	21.58	61.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.64	59.31	-14.69	74	43.64	32.25	13.16	29.74	307	308	P	H
		5469.68	63.61	-4.59	68.2	47.91	32.24	13.2	29.74	307	308	P	H
		5460	46.13	-7.87	54	30.46	32.25	13.16	29.74	307	308	A	H
	*	5500	111.89	-	-	96.12	32.2	13.31	29.74	307	308	P	H
	*	5500	104.19	-	-	88.42	32.2	13.31	29.74	307	308	A	H
		5458.96	61.51	-12.49	74	45.84	32.25	13.16	29.74	281	54	P	V
		5468.4	65.82	-2.38	68.2	50.13	32.24	13.19	29.74	281	54	P	V
		5460	47.25	-6.75	54	31.58	32.25	13.16	29.74	281	54	A	V
	*	5500	113.49	-	-	97.72	32.2	13.31	29.74	281	54	P	V
	*	5500	105.67	-	-	89.9	32.2	13.31	29.74	281	54	A	V
802.11a CH 116 5580MHz		5455.6	55.12	-18.88	74	39.46	32.25	13.15	29.74	307	308	P	H
		5463.28	53.15	-15.05	68.2	37.48	32.24	13.17	29.74	307	308	P	H
		5459.92	43.71	-10.29	54	28.04	32.25	13.16	29.74	307	308	A	H
	*	5580	111.63	-	-	95.44	32.38	13.59	29.78	307	308	P	H
	*	5580	103.76	-	-	87.57	32.38	13.59	29.78	307	308	A	H
		5742.005	54.72	-13.48	68.2	37.81	32.73	14.04	29.86	307	308	P	H
		5452.24	56.78	-17.22	74	41.12	32.26	13.14	29.74	285	52	P	V
		5460.88	57.13	-11.07	68.2	41.45	32.25	13.17	29.74	285	52	P	V
		5459.92	44.89	-9.11	54	29.22	32.25	13.16	29.74	285	52	A	V
	*	5580	111.9	-	-	95.71	32.38	13.59	29.78	285	52	P	V
	*	5580	104.2	-	-	88.01	32.38	13.59	29.78	285	52	A	V
		5736.02	55.72	-12.48	68.2	38.82	32.72	14.03	29.85	285	52	P	V

802.11a CH 140 5700MHz	*	5700	114.64	-	-	97.91	32.64	13.93	29.84	268	285	P	H
	*	5700	106.6	-	-	89.87	32.64	13.93	29.84	268	285	A	H
		5726.12	67	-1.2	68.2	50.15	32.7	14	29.85	268	285	P	H
	*	5700	109.46	-	-	92.73	32.64	13.93	29.84	328	21	P	V
	*	5700	101.51	-	-	84.78	32.64	13.93	29.84	328	21	A	V
		5726.52	62.61	-5.59	68.2	45.76	32.7	14	29.85	328	21	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	48.6	-25.4	74	52.21	40.1	17.99	61.7	100	0	P	H
		16500	46.33	-21.87	68.2	43.65	40.1	22.28	59.7	100	0	P	H
		11000	53.83	-20.17	74	57.44	40.1	17.99	61.7	266	261	P	V
		11000	42.24	-11.76	54	45.85	40.1	17.99	61.7	266	261	A	V
		16500	46.92	-21.28	68.2	44.24	40.1	22.28	59.7	100	0	P	V
802.11a CH 116 5580MHz		11160	49.83	-24.17	74	53.6	39.97	18.12	61.86	100	0	P	H
		16740	46.2	-22	68.2	42.29	40.96	22.6	59.65	100	0	P	H
		11160	49.81	-24.19	74	53.58	39.97	18.12	61.86	100	0	P	V
		16740	46.45	-21.75	68.2	42.54	40.96	22.6	59.65	100	0	P	V
802.11a CH 140 5700MHz		11400	59.06	-14.94	74	63.08	39.78	18.3	62.1	197	133	P	H
		11400	47.92	-6.08	54	51.94	39.78	18.3	62.1	197	133	A	H
		17100	48.85	-19.35	68.2	42.72	42.42	23.09	59.38	100	0	P	H
		11400	59.2	-14.8	74	63.22	39.78	18.3	62.1	195	156	P	V
		11400	48.44	-5.56	54	52.46	39.78	18.3	62.1	195	156	A	V
		17100	47.61	-20.59	68.2	41.48	42.42	23.09	59.38	100	0	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 HT20 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5458.24	57.29	-16.71	74	41.62	32.25	13.16	29.74	269	347	P	H
		5469.76	64.07	-4.13	68.2	48.37	32.24	13.2	29.74	269	347	P	H
		5459.92	46.96	-7.04	54	31.29	32.25	13.16	29.74	269	347	A	H
	*	5500	112.81	-	-	97.04	32.2	13.31	29.74	269	347	P	H
	*	5500	104.89	-	-	89.12	32.2	13.31	29.74	269	347	A	H
		5458.16	60.3	-13.7	74	44.63	32.25	13.16	29.74	281	57	P	V
		5468.08	65.91	-2.29	68.2	50.22	32.24	13.19	29.74	281	57	P	V
		5460	48.24	-5.76	54	32.57	32.25	13.16	29.74	281	57	A	V
	*	5500	113.85	-	-	98.08	32.2	13.31	29.74	281	57	P	V
	*	5500	105.94	-	-	90.17	32.2	13.31	29.74	281	57	A	V
802.11n HT20 CH 116 5580MHz		5446.96	54.05	-19.95	74	38.41	32.26	13.12	29.74	307	309	P	H
		5464.96	53.74	-14.46	68.2	38.06	32.24	13.18	29.74	307	309	P	H
		5459.68	43.37	-10.63	54	27.7	32.25	13.16	29.74	307	309	A	H
	*	5580	110.91	-	-	94.72	32.38	13.59	29.78	307	309	P	H
	*	5580	103.26	-	-	87.07	32.38	13.59	29.78	307	309	A	H
		5757.44	54.26	-13.94	68.2	37.26	32.77	14.09	29.86	307	309	P	H
		5394.88	55.59	-18.41	74	40.04	32.33	12.95	29.73	273	54	P	V
		5469.76	54.26	-13.94	68.2	38.56	32.24	13.2	29.74	273	54	P	V
		5459.92	44.72	-9.28	54	29.05	32.25	13.16	29.74	273	54	A	V
	*	5580	111.82	-	-	95.63	32.38	13.59	29.78	273	54	P	V
	*	5580	103.89	-	-	87.7	32.38	13.59	29.78	273	54	A	V
		5760.905	54.85	-13.35	68.2	37.86	32.77	14.09	29.87	273	54	P	V

802.11n HT20 CH 140 5700MHz	*	5700	113.53	-	-	96.8	32.64	13.93	29.84	262	324	P	H
	*	5700	105.21	-	-	88.48	32.64	13.93	29.84	262	324	A	H
		5725.72	65.72	-2.48	68.2	48.87	32.7	14	29.85	262	324	P	H
	*	5700	111.16	-	-	94.43	32.64	13.93	29.84	257	57	P	V
	*	5700	102.97	-	-	86.24	32.64	13.93	29.84	257	57	A	V
		5725.56	64.82	-3.38	68.2	47.97	32.7	14	29.85	257	57	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 HT20 (Harmonic @ 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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		11000	48.88	-25.12	74	52.49	40.1	17.99	61.7	100	0	P	H
		16500	46.49	-21.71	68.2	43.81	40.1	22.28	59.7	100	0	P	H
		11000	49.9	-24.1	74	53.51	40.1	17.99	61.7	100	0	P	V
		16500	47.04	-21.16	68.2	44.36	40.1	22.28	59.7	100	0	P	V
802.11n HT20 CH 116 5580MHz		11160	49.36	-24.64	74	53.13	39.97	18.12	61.86	100	0	P	H
		16740	48.24	-19.96	68.2	44.33	40.96	22.6	59.65	100	0	P	H
		11160	49.87	-24.13	74	53.64	39.97	18.12	61.86	100	0	P	V
		16740	48.21	-19.99	68.2	44.3	40.96	22.6	59.65	100	0	P	V
802.11n HT20 CH 140 5700MHz		11400	49.54	-24.46	74	53.56	39.78	18.3	62.1	100	0	P	H
		17100	49.17	-19.03	68.2	43.04	42.42	23.09	59.38	100	0	P	H
		11400	57.52	-16.48	74	61.54	39.78	18.3	62.1	133	131	P	V
		11400	46.48	-7.52	54	50.5	39.78	18.3	62.1	133	131	A	V
		17100	48.9	-19.3	68.2	42.77	42.42	23.09	59.38	100	0	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 (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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5454.64	58.95	-15.05	74	43.3	32.25	13.14	29.74	268	348	P	H
		5466.88	63.96	-4.24	68.2	48.27	32.24	13.19	29.74	268	348	P	H
		5459.92	48.42	-5.58	54	32.75	32.25	13.16	29.74	268	348	A	H
	*	5510	106.8	-	-	90.98	32.22	13.34	29.74	268	348	P	H
	*	5510	98.79	-	-	82.97	32.22	13.34	29.74	268	348	A	H
		5753.975	55.65	-12.55	68.2	38.67	32.76	14.08	29.86	268	348	P	H
		5457.28	60.5	-13.5	74	44.84	32.25	13.15	29.74	281	57	P	V
		5466.16	64.67	-3.53	68.2	48.99	32.24	13.18	29.74	281	57	P	V
		5459.92	50.25	-3.75	54	34.58	32.25	13.16	29.74	281	57	A	V
	*	5510	107.8	-	-	91.98	32.22	13.34	29.74	281	57	P	V
	*	5510	100.09	-	-	84.27	32.22	13.34	29.74	281	57	A	V
		5742.32	54.72	-13.48	68.2	37.81	32.73	14.04	29.86	281	57	P	V
802.11n HT40 CH 110 5550MHz		5432.08	55.23	-18.77	74	39.63	32.28	13.06	29.74	251	309	P	H
		5467.36	55.02	-13.18	68.2	39.33	32.24	13.19	29.74	251	309	P	H
		5459.92	44.44	-9.56	54	28.77	32.25	13.16	29.74	251	309	A	H
	*	5550	108.58	-	-	92.55	32.31	13.48	29.76	251	309	P	H
	*	5550	100.4	-	-	84.37	32.31	13.48	29.76	251	309	A	H
		5742.95	54.79	-13.41	68.2	37.87	32.73	14.05	29.86	251	309	P	H
		5456.56	56.3	-17.7	74	40.64	32.25	13.15	29.74	269	52	P	V
		5467.36	56.35	-11.85	68.2	40.66	32.24	13.19	29.74	269	52	P	V
		5459.68	45.74	-8.26	54	30.07	32.25	13.16	29.74	269	52	A	V
	*	5550	108.58	-	-	92.55	32.31	13.48	29.76	269	52	P	V
	*	5550	100.62	-	-	84.59	32.31	13.48	29.76	269	52	A	V
		5759.96	54.15	-14.05	68.2	37.15	32.77	14.09	29.86	269	52	P	V

802.11n HT40 CH 134 5670MHz		5447.65	53.81	-20.19	74	38.17	32.26	13.12	29.74	250	289	P	H
		5469.35	54.13	-14.07	68.2	38.43	32.24	13.2	29.74	250	289	P	H
		5458.5	43.07	-10.93	54	27.4	32.25	13.16	29.74	250	289	A	H
	*	5670	111.03	-	-	94.43	32.57	13.85	29.82	250	289	P	H
	*	5670	102.99	-	-	86.39	32.57	13.85	29.82	250	289	A	H
		5727.55	66.11	-2.09	68.2	49.26	32.7	14	29.85	250	289	P	H
		5448	54.52	-19.48	74	38.88	32.26	13.12	29.74	279	56	P	V
		5460.25	53.52	-14.68	68.2	37.85	32.25	13.16	29.74	279	56	P	V
		5457.8	43.88	-10.12	54	28.21	32.25	13.16	29.74	279	56	A	V
	*	5670	109.47	-	-	92.87	32.57	13.85	29.82	279	56	P	V
	*	5670	101.26	-	-	84.66	32.57	13.85	29.82	279	56	A	V
		5729.125	63.26	-4.94	68.2	46.4	32.7	14.01	29.85	279	56	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	47.31	-26.69	74	50.95	40.08	18	61.72	100	0	P	H
		16530	47.35	-20.85	68.2	44.51	40.21	22.32	59.69	100	0	P	H
		11020	47.18	-26.82	74	50.82	40.08	18	61.72	100	0	P	V
		16530	48.51	-19.69	68.2	45.67	40.21	22.32	59.69	100	0	P	V
802.11n HT40 CH 110 5550MHz		11100	48.78	-25.22	74	52.49	40.02	18.07	61.8	100	0	P	H
		16650	48.91	-19.29	68.2	45.46	40.64	22.48	59.67	100	0	P	H
		11100	48.65	-25.35	74	52.36	40.02	18.07	61.8	100	0	P	V
		16650	47.37	-20.83	68.2	43.92	40.64	22.48	59.67	100	0	P	V
802.11n HT40 CH 134 5670MHz		11340	59.5	-14.5	74	63.45	39.83	18.26	62.04	308	233	P	H
		11340	47.64	-6.36	54	51.59	39.83	18.26	62.04	308	233	A	H
		17010	49.72	-18.48	68.2	44.39	41.95	22.96	59.58	100	0	P	H
		11340	58.33	-15.67	74	62.28	39.83	18.26	62.04	210	144	P	V
		11340	48.7	-5.3	54	52.65	39.83	18.26	62.04	210	144	A	V
		17010	49.08	-19.12	68.2	43.75	41.95	22.96	59.58	100	0	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 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		5458.24	62.55	-11.45	74	46.88	32.25	13.16	29.74	256	306	P	H
		5465.68	66.97	-1.23	68.2	51.29	32.24	13.18	29.74	256	306	P	H
		5456.08	49.58	-4.42	54	33.92	32.25	13.15	29.74	256	306	A	H
	*	5530	102.42	-	-	86.49	32.27	13.41	29.75	256	306	P	H
	*	5530	94.09	-	-	78.16	32.27	13.41	29.75	256	306	A	H
		5756.18	55.33	-12.87	68.2	38.35	32.76	14.08	29.86	256	306	P	H
		5458.48	65.63	-8.37	74	49.96	32.25	13.16	29.74	260	61	P	V
		5468.32	67.47	-0.73	68.2	51.78	32.24	13.19	29.74	260	61	P	V
		5455.6	49.56	-4.44	54	33.9	32.25	13.15	29.74	260	61	A	V
	*	5530	102.9	-	-	86.97	32.27	13.41	29.75	260	61	P	V
	*	5530	94.19	-	-	78.26	32.27	13.41	29.75	260	61	A	V
		5733.185	55.25	-12.95	68.2	38.37	32.71	14.02	29.85	260	61	P	V
802.11ac VHT80 CH 122 5610MHz		5456.08	56.37	-17.63	74	40.71	32.25	13.15	29.74	250	307	P	H
		5468.32	56.15	-12.05	68.2	40.46	32.24	13.19	29.74	250	307	P	H
		5459.92	45.13	-8.87	54	29.46	32.25	13.16	29.74	250	307	A	H
	*	5610	105.31	-	-	88.97	32.44	13.69	29.79	250	307	P	H
	*	5610	97.23	-	-	80.89	32.44	13.69	29.79	250	307	A	H
		5734.445	58.06	-10.14	68.2	41.17	32.72	14.02	29.85	250	307	P	H
		5457.04	56.78	-17.22	74	41.12	32.25	13.15	29.74	252	60	P	V
		5465.44	58.13	-10.07	68.2	42.45	32.24	13.18	29.74	252	60	P	V
		5459.44	45.93	-8.07	54	30.26	32.25	13.16	29.74	252	60	A	V
	*	5610	106.09	-	-	89.75	32.44	13.69	29.79	252	60	P	V
	*	5610	96.99	-	-	80.65	32.44	13.69	29.79	252	60	A	V
		5732.24	58.21	-9.99	68.2	41.33	32.71	14.02	29.85	252	60	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac		11060	47.19	-26.81	74	50.87	40.05	18.03	61.76	100	0	P	H
VHT80		16590	46.85	-21.35	68.2	43.72	40.42	22.39	59.68	100	0	P	H
CH 106		11060	47.18	-26.82	74	50.86	40.05	18.03	61.76	100	0	P	V
5530MHz		16590	46.51	-21.69	68.2	43.38	40.42	22.39	59.68	100	0	P	V
802.11ac		11220	46.69	-27.31	74	50.53	39.92	18.16	61.92	100	0	P	H
VHT80		16830	47.55	-20.65	68.2	43.17	41.29	22.72	59.63	100	0	P	H
CH 122		11220	48.73	-25.27	74	52.57	39.92	18.16	61.92	100	0	P	V
5610MHz		16830	47.83	-20.37	68.2	43.45	41.29	22.72	59.63	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5458.81	54.46	-19.54	74	38.79	32.25	13.16	29.74	302	278	P	H
		5463.1	53.22	-14.98	68.2	37.55	32.24	13.17	29.74	302	278	P	H
		5457.64	42.21	-11.79	54	26.55	32.25	13.15	29.74	302	278	A	H
	*	5720	113.27	-	-	96.46	32.68	13.98	29.85	302	278	P	H
	*	5720	105.22	-	-	88.41	32.68	13.98	29.85	302	278	A	H
		5859.75	56.24	-11.96	68.2	39.16	32.99	14	29.91	302	278	P	H
		5435.41	54.49	-19.51	74	38.87	32.28	13.08	29.74	273	56	P	V
		5464.66	53.2	-15	68.2	37.52	32.24	13.18	29.74	273	56	P	V
		5454.52	42.88	-11.12	54	27.23	32.25	13.14	29.74	273	56	A	V
	*	5720	109.91	-	-	93.1	32.68	13.98	29.85	273	56	P	V
	*	5720	102.13	-	-	85.32	32.68	13.98	29.85	273	56	A	V
		5869	56.12	-12.08	68.2	39.06	33.01	13.97	29.92	273	56	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	57.7	-16.3	74	61.76	39.75	18.33	62.14	100	277	P	H
		11440	46.93	-7.07	54	50.99	39.75	18.33	62.14	100	277	A	H
		17160	49.29	-18.91	68.2	42.65	42.73	23.16	59.25	100	0	P	H
		11440	60.32	-13.68	74	64.38	39.75	18.33	62.14	196	155	P	V
		11440	48.65	-5.35	54	52.71	39.75	18.33	62.14	196	155	A	V
		17160	49.23	-18.97	68.2	42.59	42.73	23.16	59.25	100	0	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 (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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		5445.94	53.85	-20.15	74	38.22	32.26	13.11	29.74	310	281	P	H
		5463.88	54.39	-13.81	68.2	38.71	32.24	13.18	29.74	310	281	P	H
		5459.59	42.52	-11.48	54	26.85	32.25	13.16	29.74	310	281	A	H
	*	5720	113.55	-	-	96.74	32.68	13.98	29.85	310	281	P	H
	*	5720	105.29	-	-	88.48	32.68	13.98	29.85	310	281	A	H
		5932.25	55.76	-12.44	68.2	38.8	33.15	13.76	29.95	310	281	P	H
		5424.1	54.52	-19.48	74	38.93	32.29	13.04	29.74	273	54	P	V
		5468.95	53.91	-14.29	68.2	38.22	32.24	13.19	29.74	273	54	P	V
		5456.08	43.15	-10.85	54	27.49	32.25	13.15	29.74	273	54	A	V
	*	5720	109.6	-	-	92.79	32.68	13.98	29.85	273	54	P	V
	*	5720	101.62	-	-	84.81	32.68	13.98	29.85	273	54	A	V
		5891.75	56.13	-12.07	68.2	39.11	33.06	13.89	29.93	273	54	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		11440	59.3	-14.7	74	63.36	39.75	18.33	62.14	237	253	P	H
		11440	48.04	-5.96	54	52.1	39.75	18.33	62.14	237	253	A	H
		17160	49.59	-18.61	68.2	42.95	42.73	23.16	59.25	100	0	P	H
		11440	60.56	-13.44	74	64.62	39.75	18.33	62.14	211	133	P	V
		11440	48.76	-5.24	54	52.82	39.75	18.33	62.14	211	133	A	V
		17160	49.38	-18.82	68.2	42.74	42.73	23.16	59.25	100	0	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 (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.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 142 5710MHz		5438.14	54.12	-19.88	74	38.5	32.27	13.09	29.74	304	281	P	H
		5461.93	52.93	-15.27	68.2	37.25	32.25	13.17	29.74	304	281	P	H
		5457.25	42.56	-11.44	54	26.9	32.25	13.15	29.74	304	281	A	H
	*	5710	110.49	-	-	93.71	32.66	13.96	29.84	304	281	P	H
	*	5710	102.09	-	-	85.31	32.66	13.96	29.84	304	281	A	H
		5888	55.93	-12.27	68.2	38.9	33.05	13.91	29.93	304	281	P	H
		5387.05	54.72	-19.28	74	39.15	32.34	12.96	29.73	255	57	P	V
		5463.1	53.39	-14.81	68.2	37.72	32.24	13.17	29.74	255	57	P	V
		5459.98	43.27	-10.73	54	27.6	32.25	13.16	29.74	255	57	A	V
	*	5710	108.09	-	-	91.31	32.66	13.96	29.84	255	57	P	V
	*	5710	98.93	-	-	82.15	32.66	13.96	29.84	255	57	A	V
		5896.25	55.82	-12.38	68.2	38.8	33.07	13.88	29.93	255	57	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		11420	49	-25	74	53.04	39.76	18.32	62.12	100	0	P	H
HT40		17130	49.39	-18.81	68.2	43	42.58	23.12	59.31	100	0	P	H
CH 142		11420	49.83	-24.17	74	53.87	39.76	18.32	62.12	100	0	P	V
5710MHz		17130	49.62	-18.58	68.2	43.23	42.58	23.12	59.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 138 5690MHz		5371.45	53.4	-20.6	74	37.81	32.35	12.97	29.73	257	282	P	H
		5465.44	52.72	-15.48	68.2	37.04	32.24	13.18	29.74	257	282	P	H
		5459.98	42.76	-11.24	54	27.09	32.25	13.16	29.74	257	282	A	H
	*	5690	107.68	-	-	90.99	32.62	13.9	29.83	257	282	P	H
	*	5690	100.06	-	-	83.37	32.62	13.9	29.83	257	282	A	H
		5887.25	56.59	-11.61	68.2	39.56	33.05	13.91	29.93	257	282	P	H
		5433.46	55.09	-18.91	74	39.48	32.28	13.07	29.74	256	60	P	V
		5468.56	53.8	-14.4	68.2	38.11	32.24	13.19	29.74	256	60	P	V
		5459.98	43.68	-10.32	54	28.01	32.25	13.16	29.74	256	60	A	V
	*	5690	104.62	-	-	87.93	32.62	13.9	29.83	256	60	P	V
	*	5690	96.04	-	-	79.35	32.62	13.9	29.83	256	60	A	V
		5853	56.34	-11.86	68.2	39.25	32.98	14.02	29.91	256	60	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 138 5690MHz		11380	48.81	-25.19	74	52.8	39.8	18.29	62.08	100	0	P	H
		17070	49.35	-18.85	68.2	43.49	42.26	23.05	59.45	100	0	P	H
		11380	57.88	-16.12	74	61.87	39.8	18.29	62.08	201	134	P	V
		11380	46.78	-7.22	54	50.77	39.8	18.29	62.08	201	134	A	V
		17070	50.23	-17.97	68.2	44.37	42.26	23.05	59.45	100	0	P	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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		164.83	23.25	-20.25	43.5	38.05	15.99	1.57	32.36	-	-	P	H
		373.38	30.4	-15.6	46	38.89	20.98	3.01	32.48	-	-	P	H
		530.52	27.57	-18.43	46	32.58	24.13	3.47	32.61	-	-	P	H
		737.13	29.11	-16.89	46	29.22	27.94	4.42	32.47	-	-	P	H
		858.38	31.25	-14.75	46	29.5	29.12	4.66	32.03	100	0	P	H
		978.66	34.77	-19.23	54	29.83	30.86	5.18	31.1	-	-	P	H
		82.38	27.2	-12.8	40	45.01	13.65	0.93	32.39	100	0	P	V
		164.83	23.05	-20.45	43.5	37.85	15.99	1.57	32.36	-	-	P	V
		441.28	25.91	-20.09	46	32.28	22.98	3.18	32.53	-	-	P	V
		681.84	29.04	-16.96	46	31.04	26.48	4.08	32.56	-	-	P	V
		908.82	32.38	-13.62	46	30.17	29.28	4.64	31.71	-	-	P	V
		933.07	32.97	-13.03	46	29.67	30.17	4.63	31.5	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission

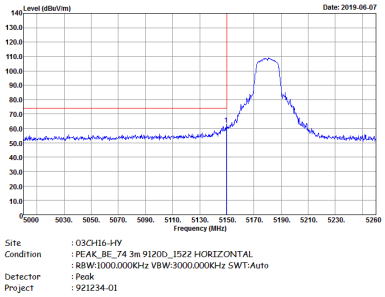
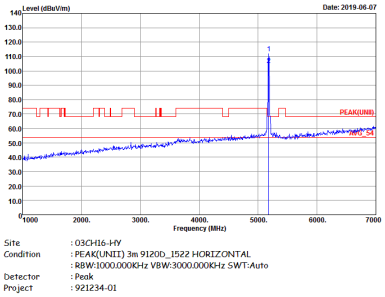
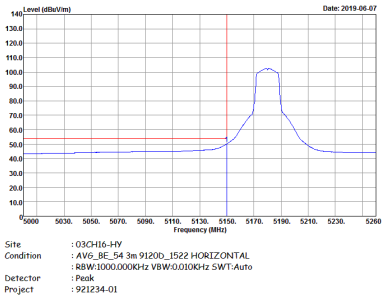
Test Engineer :	Jack Hung, Austin Li, and CR Liao	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

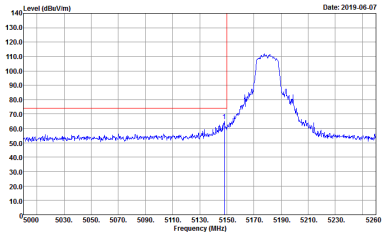
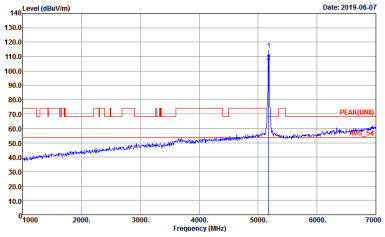
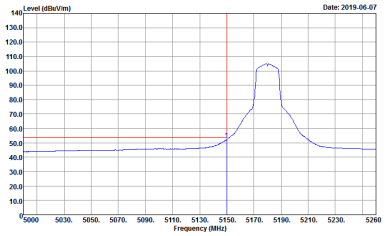
Note symbol

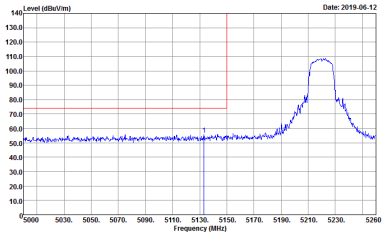
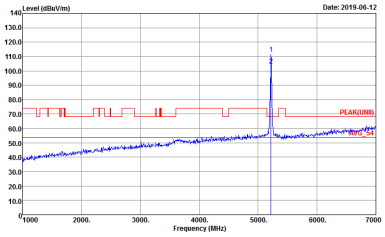
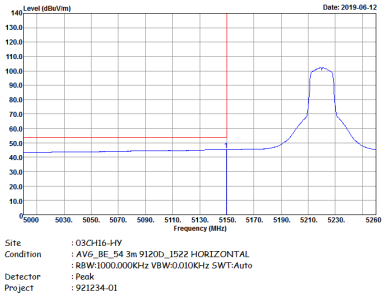
-L	**Low channel location**
-R	**High channel location**

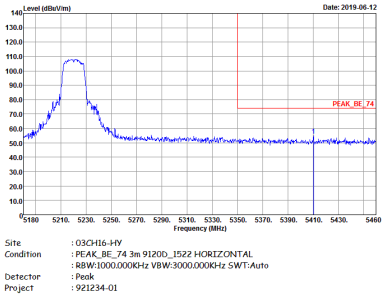
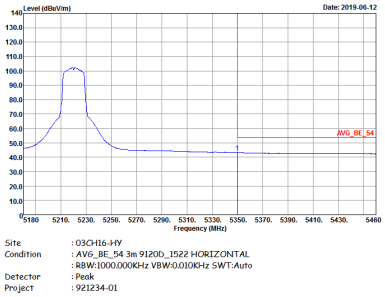
Band 1 - 5150~5250MHz

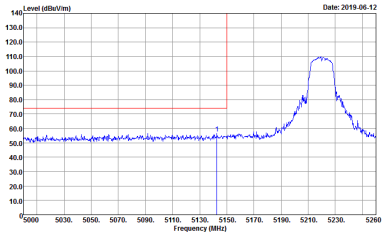
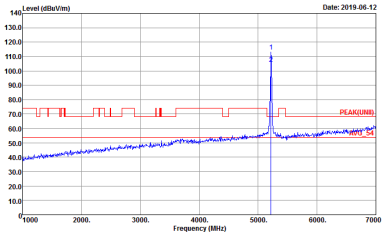
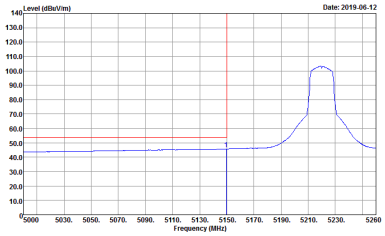
WIFI 802.11a (Band Edge @ 3m)

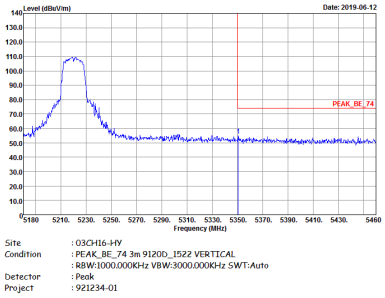
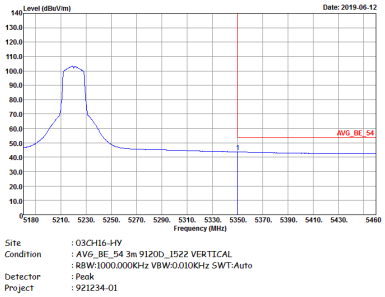
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

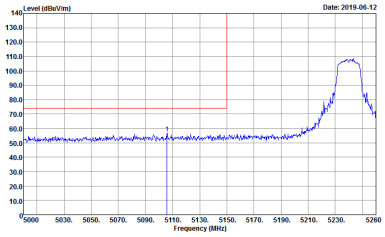
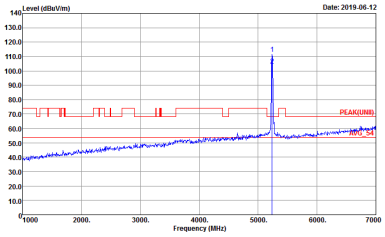
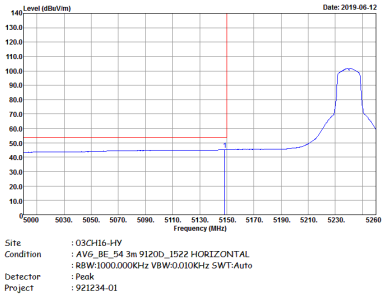
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

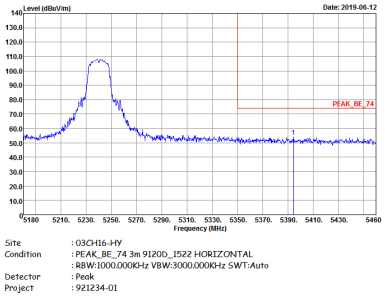
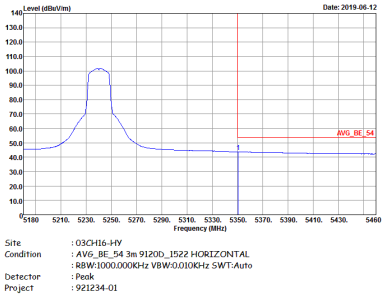
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

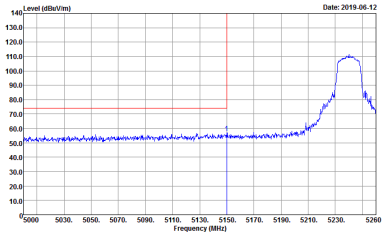
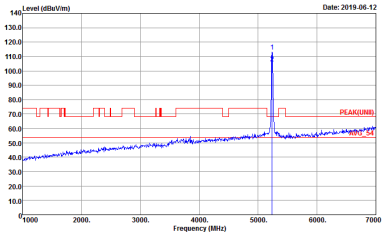
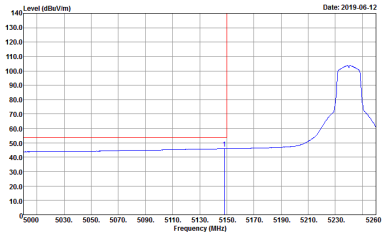
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

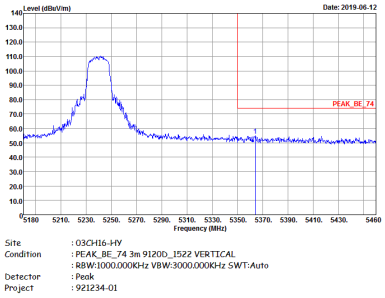
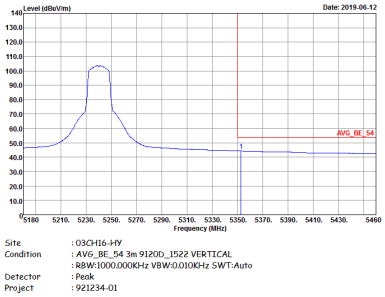
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

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

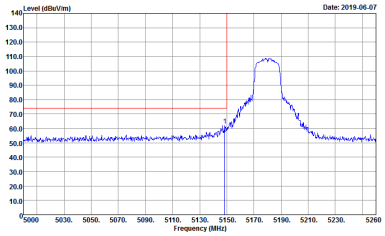
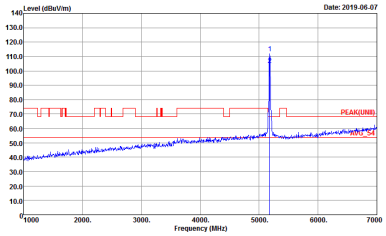
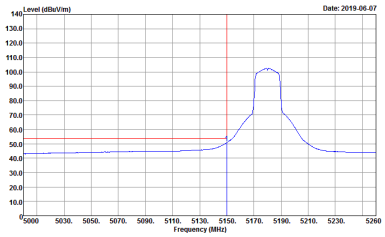
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

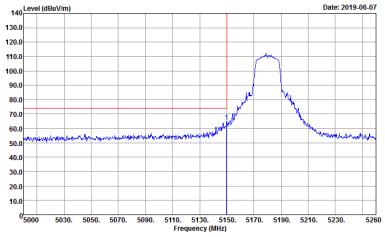
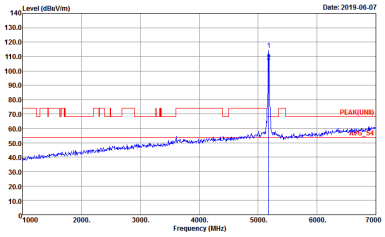
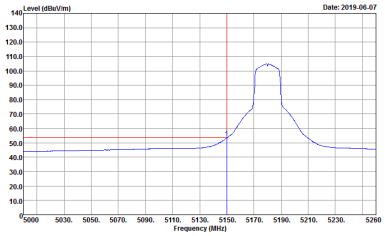
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

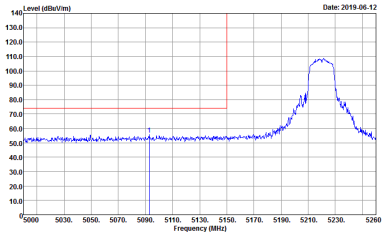
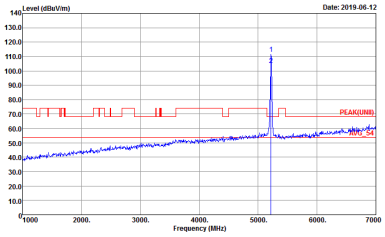
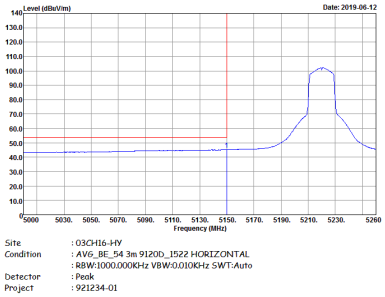
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

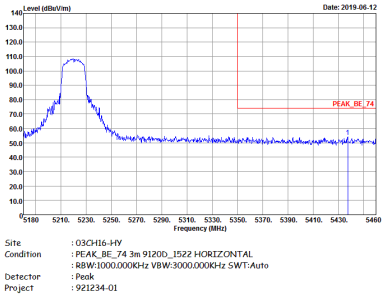
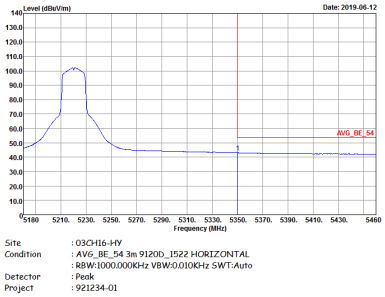
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

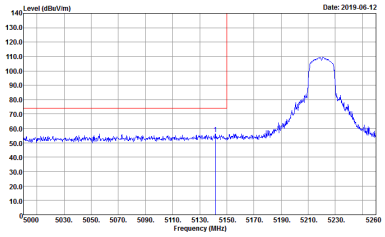
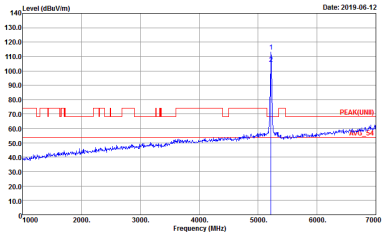
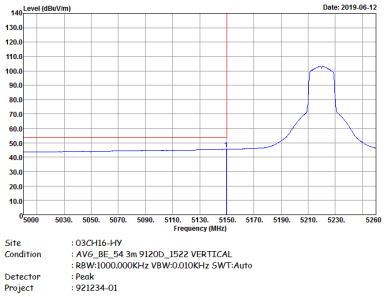
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

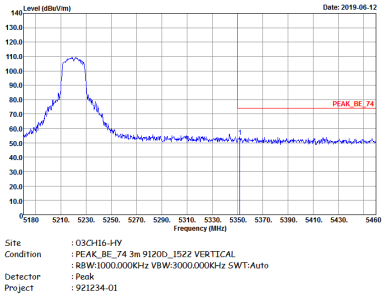
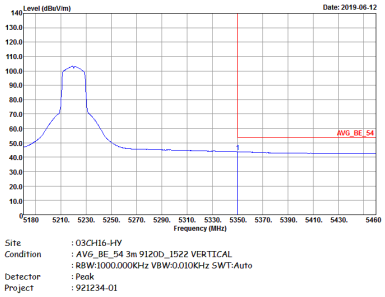
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

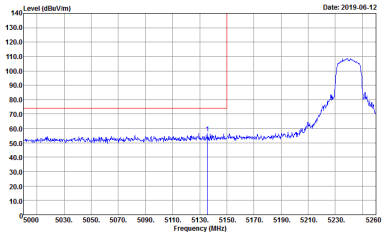
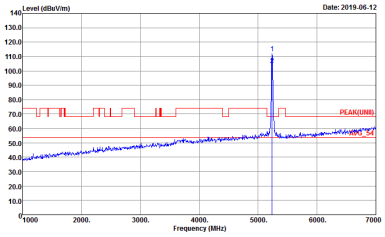
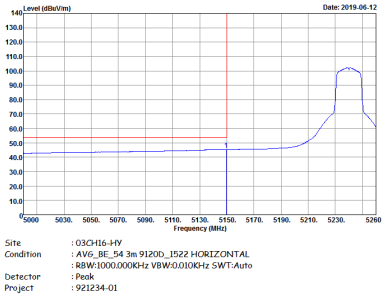
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

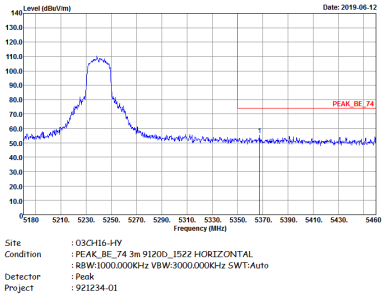
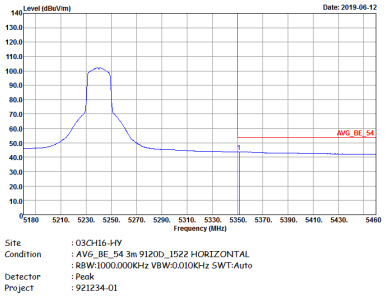
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

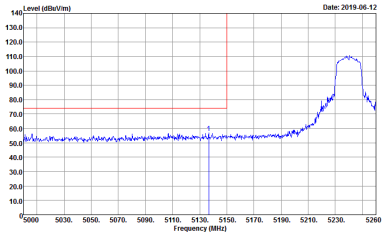
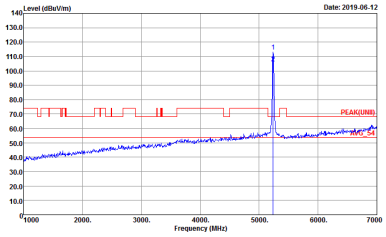
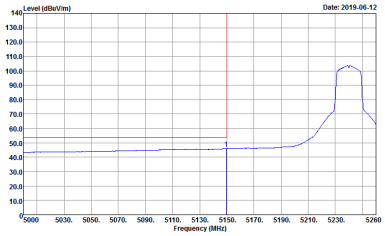
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

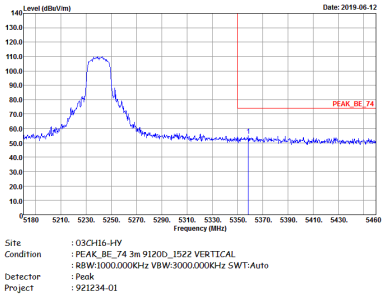
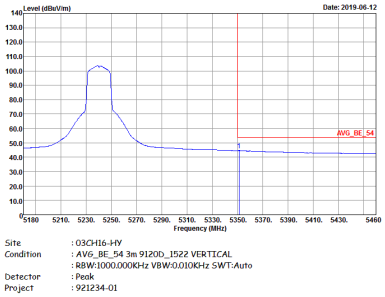
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

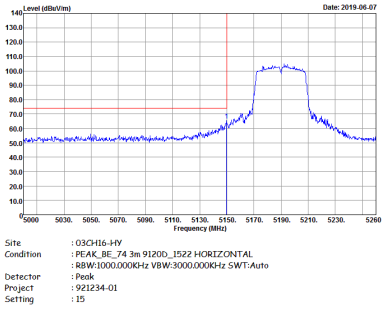
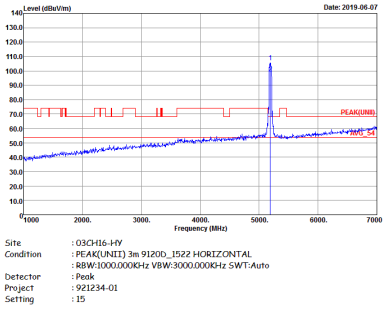
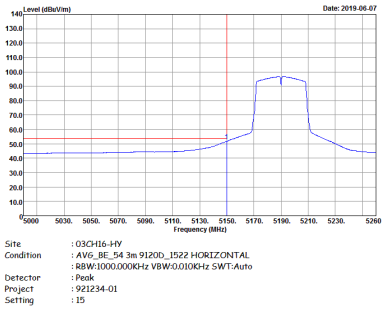
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

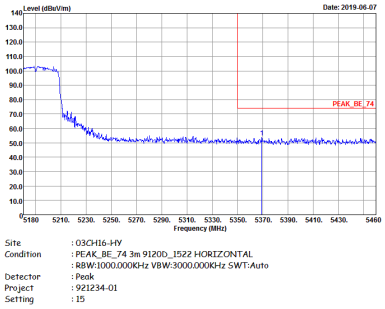
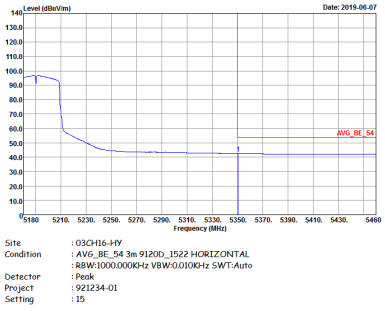
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

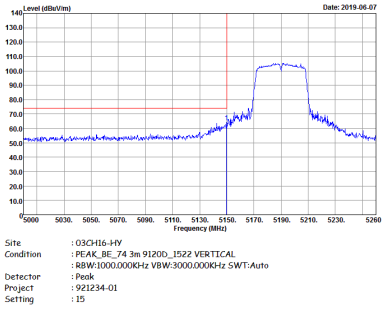
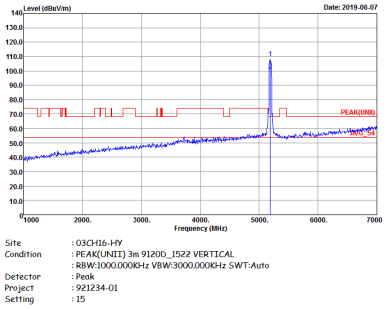
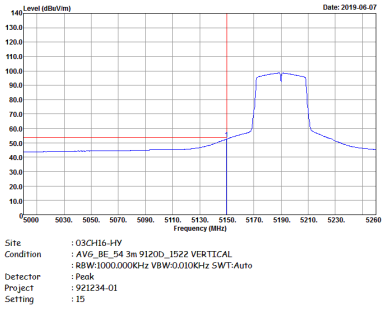
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

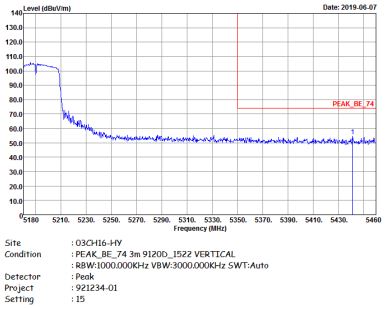
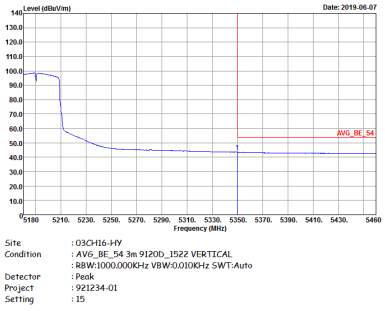
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

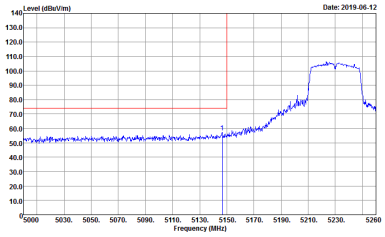
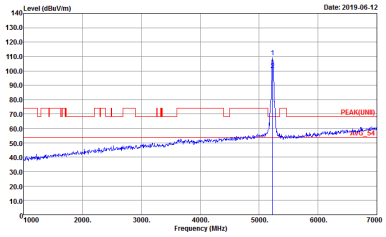
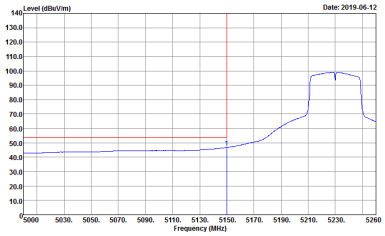
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

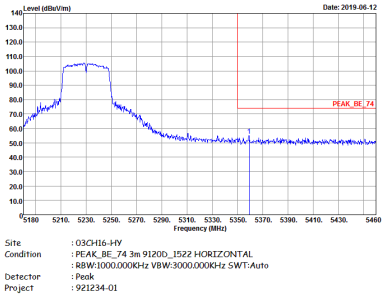
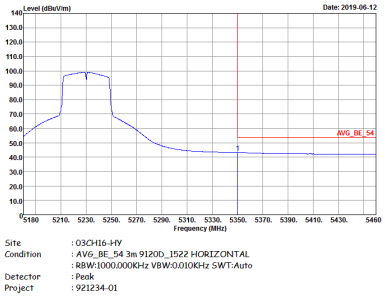
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

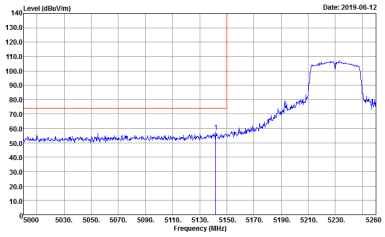
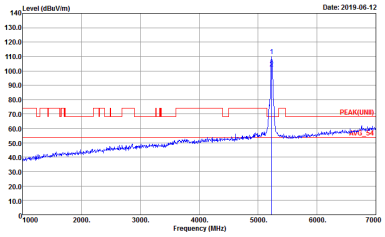
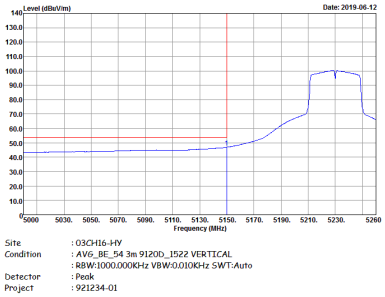
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

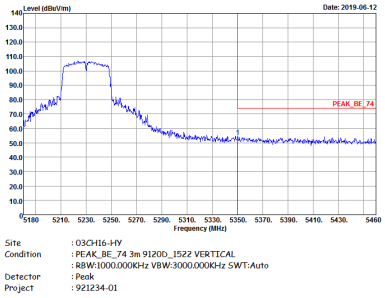
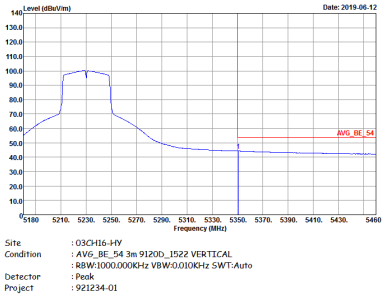
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

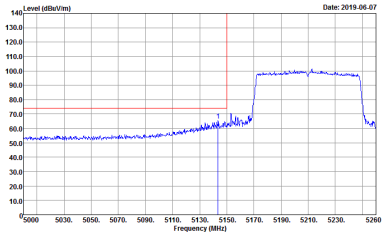
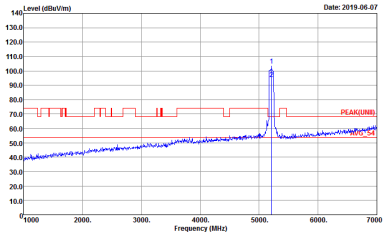
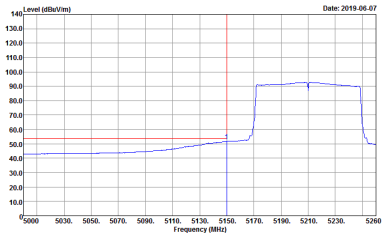
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

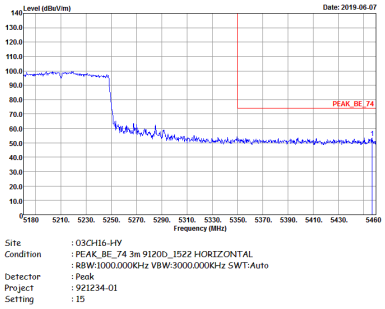
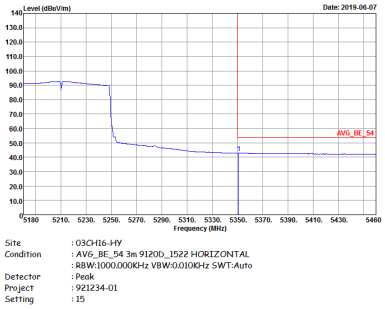
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

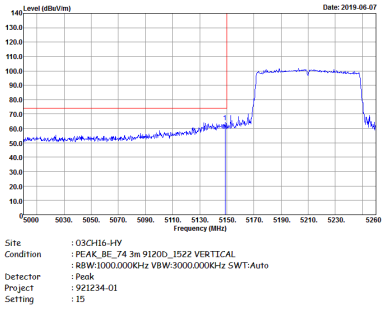
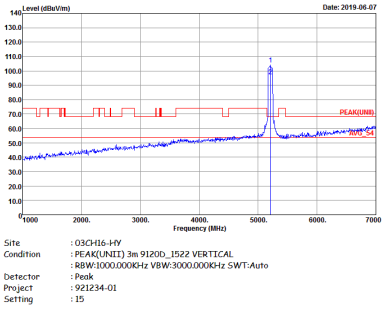
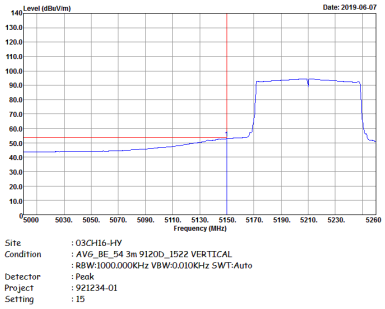
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

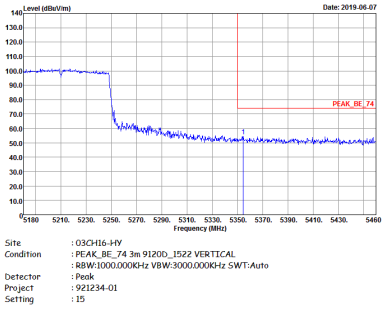
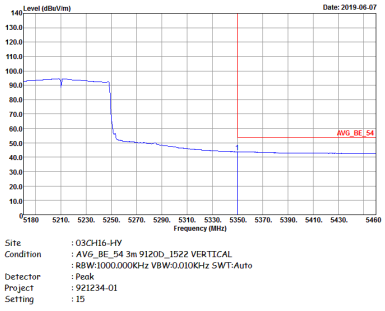
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15	Left blank

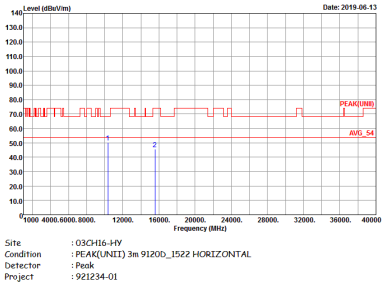
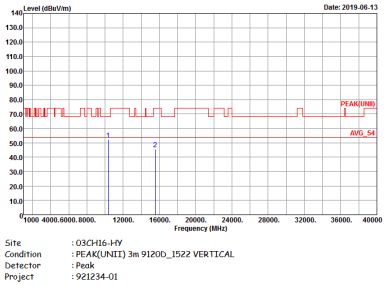
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

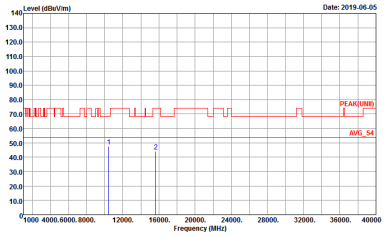
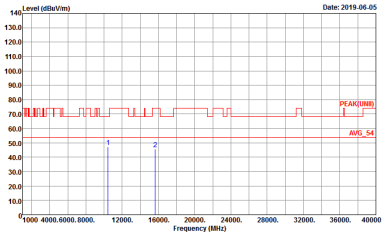
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

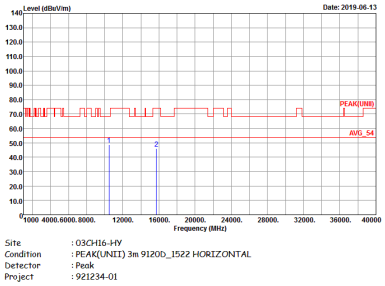
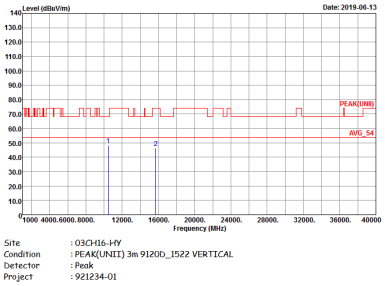
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

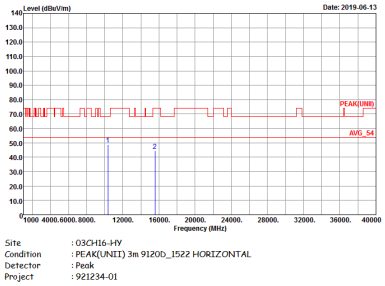
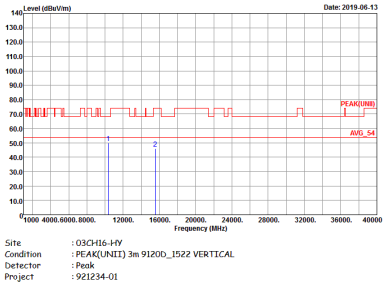
WIFI 802.11a (Harmonic @ 3m)

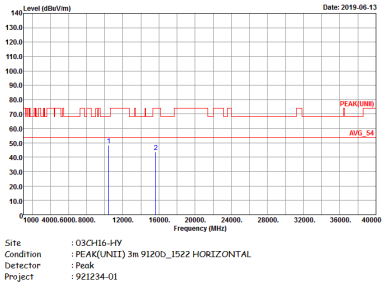
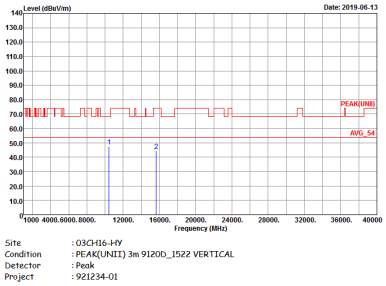
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

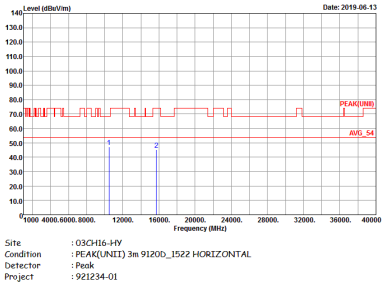
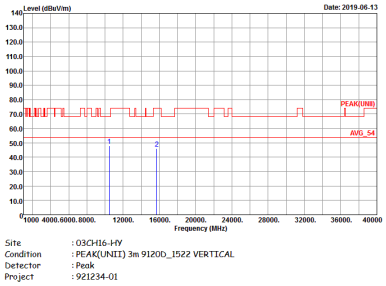
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

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

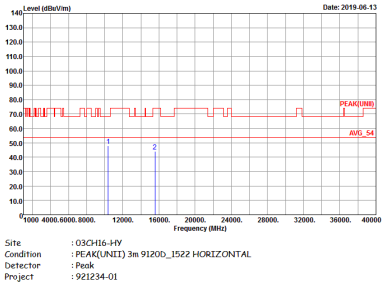
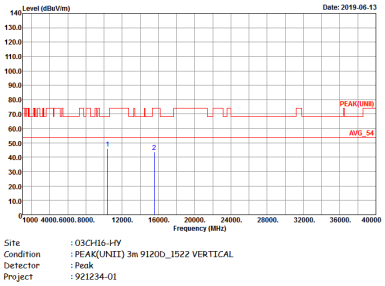
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

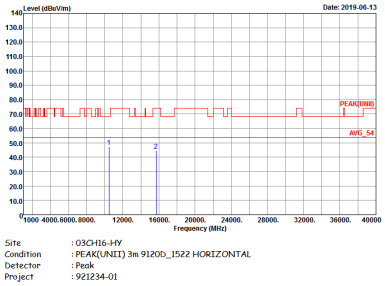
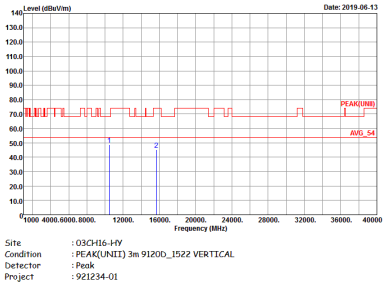
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

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

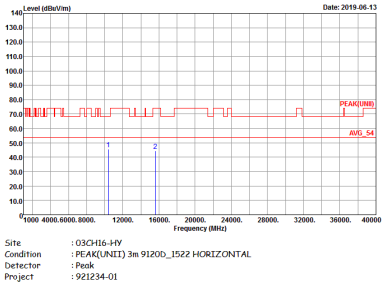
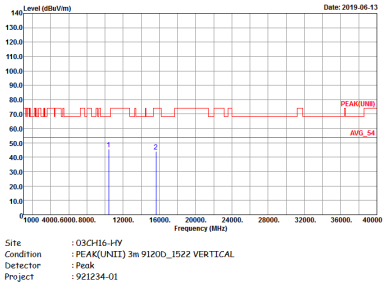
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.		

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

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

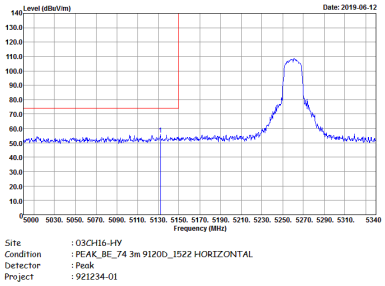
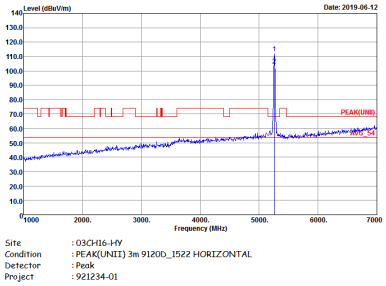
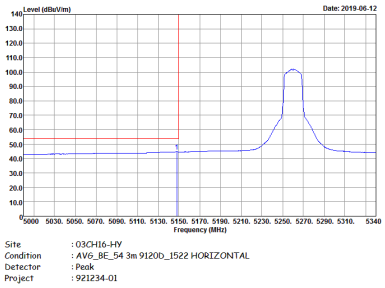
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
2	Horizontal	Vertical
Peak Avg.		

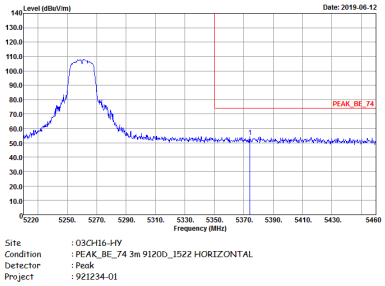
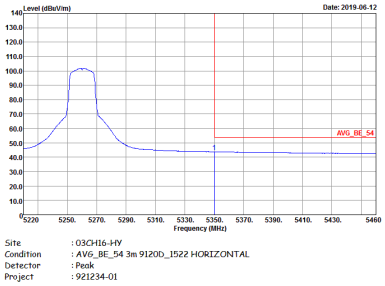
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

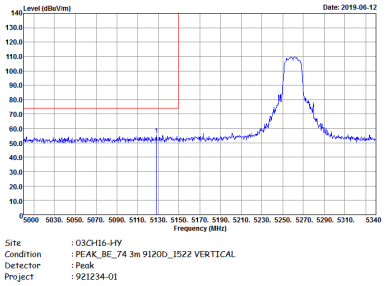
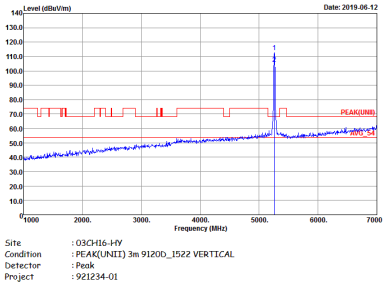
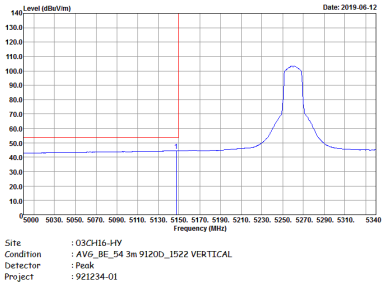
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
2	Horizontal	Vertical
Peak Avg.		

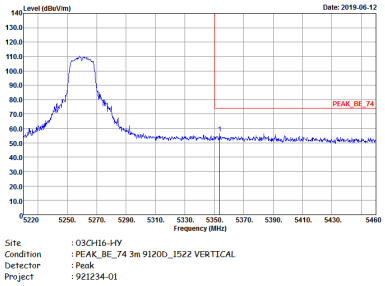
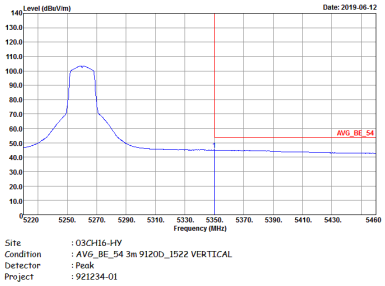
Band 2 - 5250~5350MHz

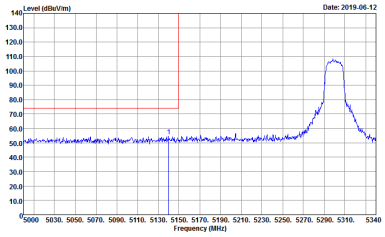
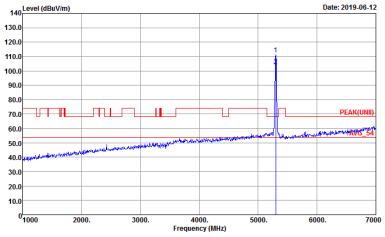
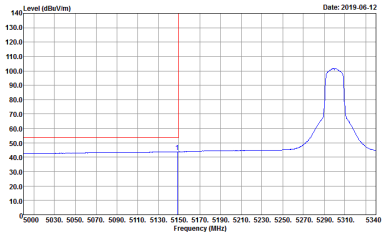
WIFI 802.11a (Band Edge @ 3m)

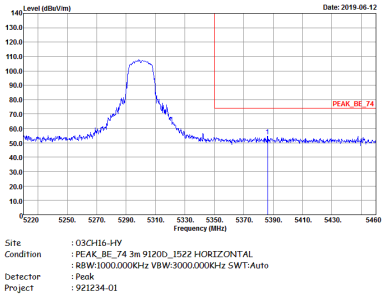
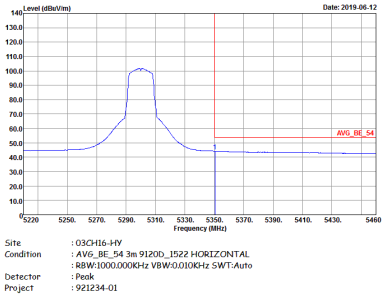
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

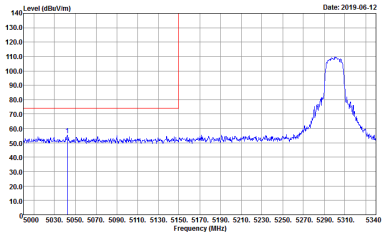
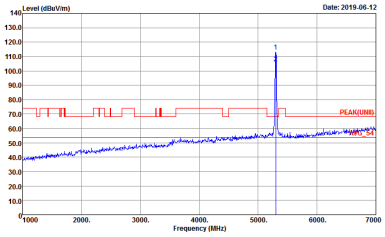
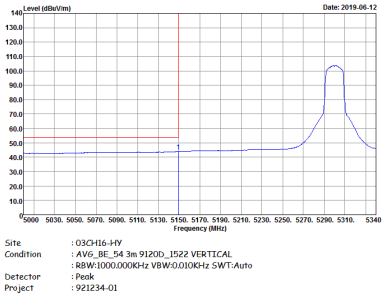
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

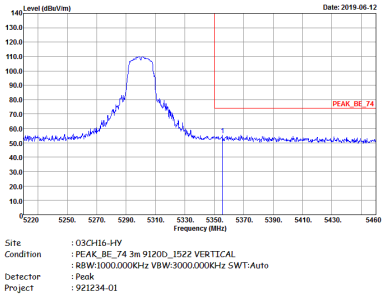
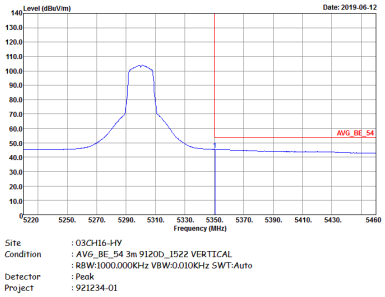
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

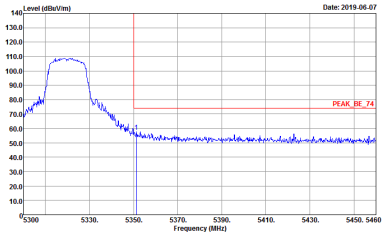
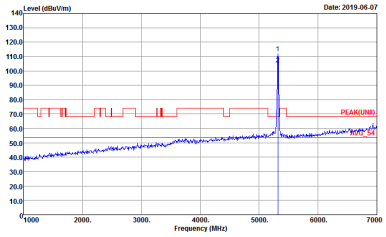
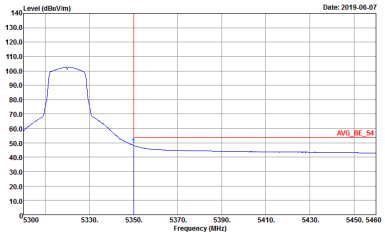
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

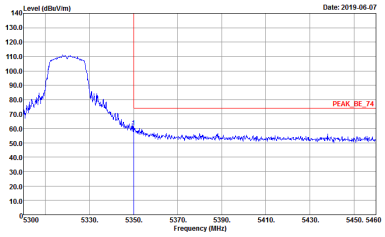
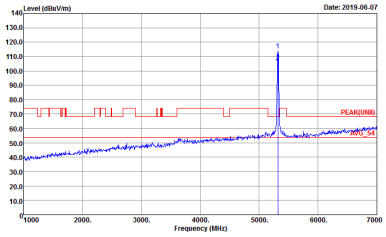
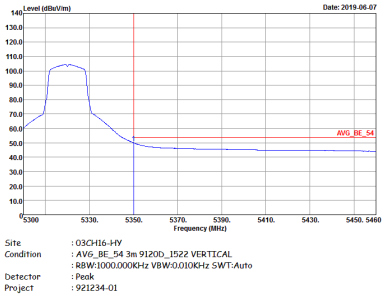
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

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

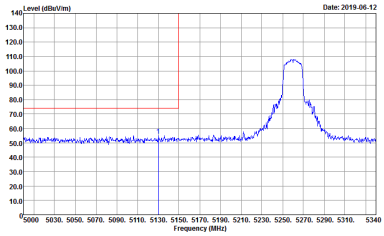
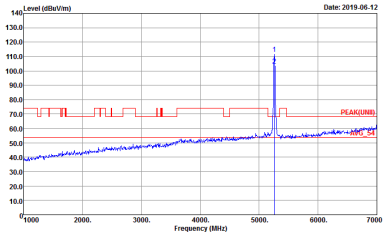
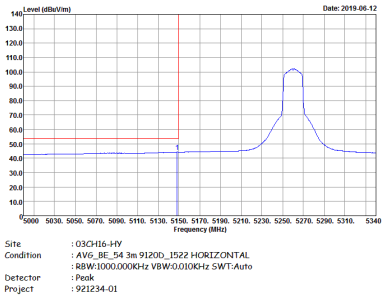
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

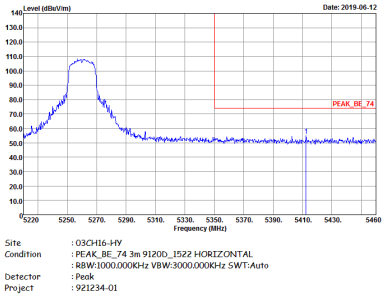
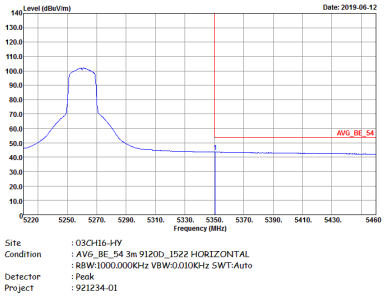
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

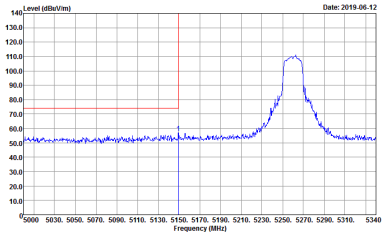
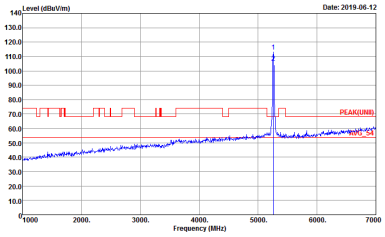
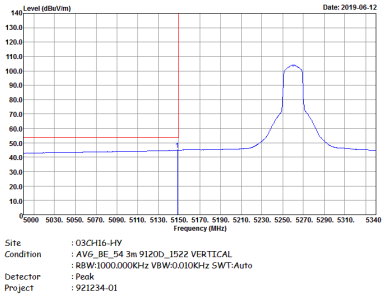
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

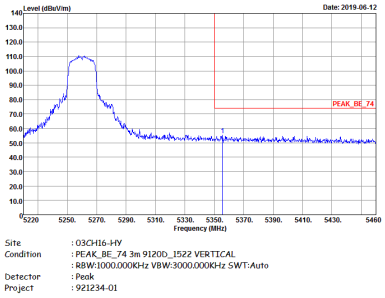
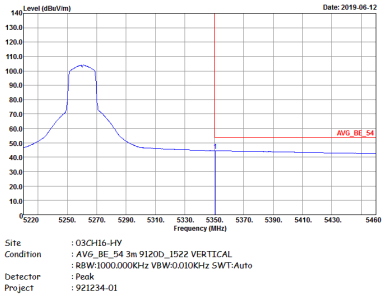
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

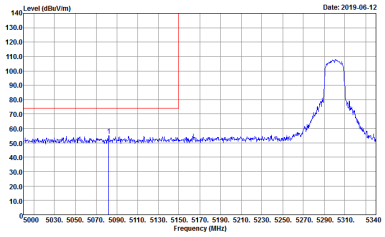
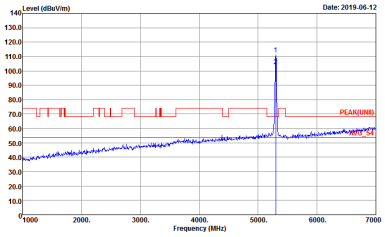
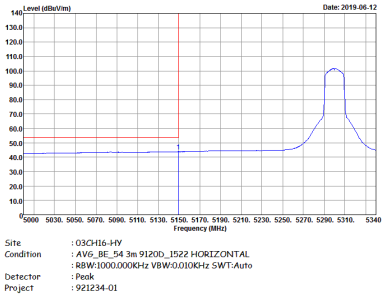
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

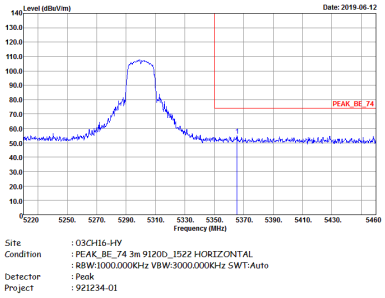
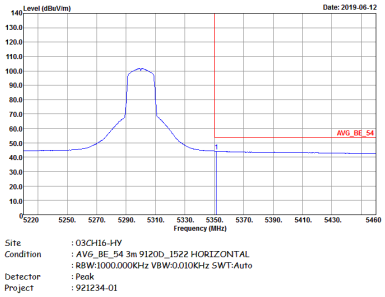
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

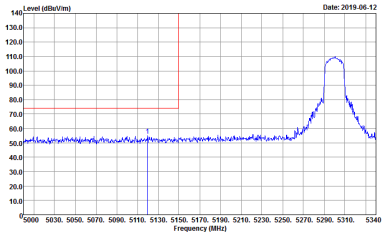
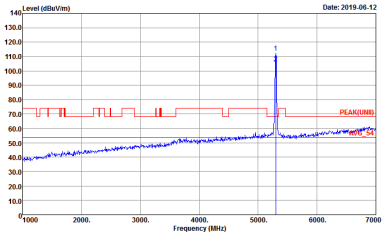
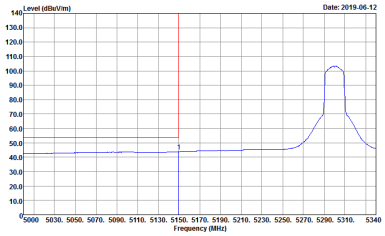
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

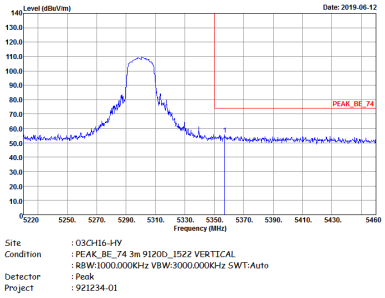
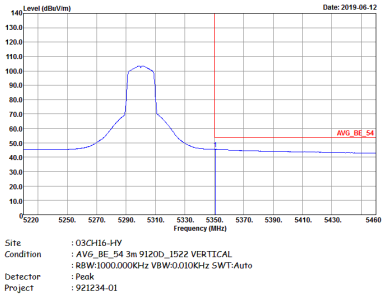
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

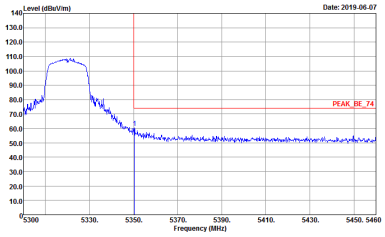
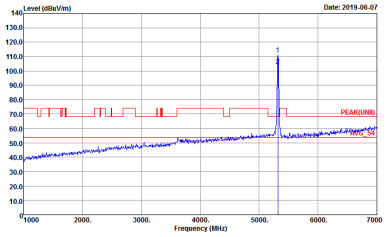
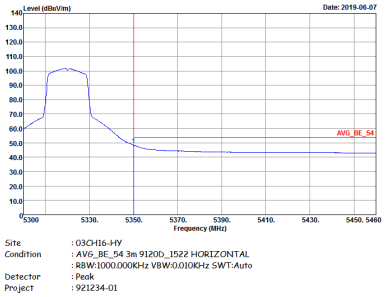
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

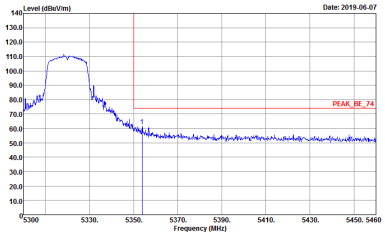
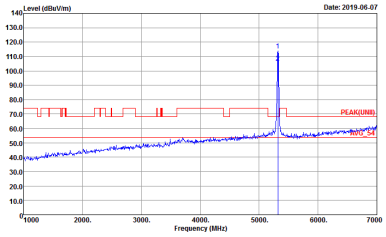
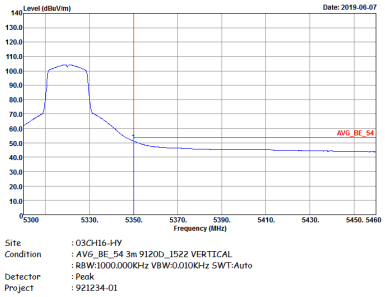
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

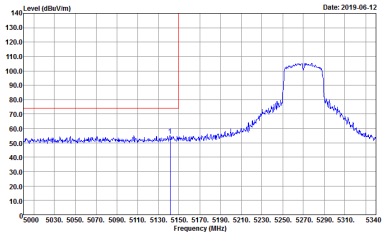
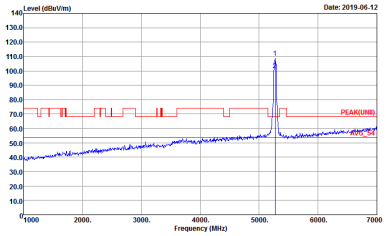
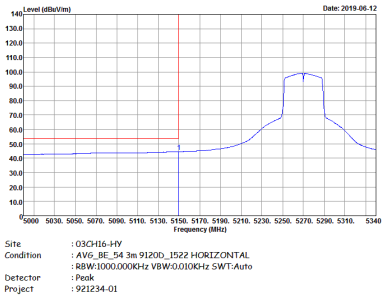
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

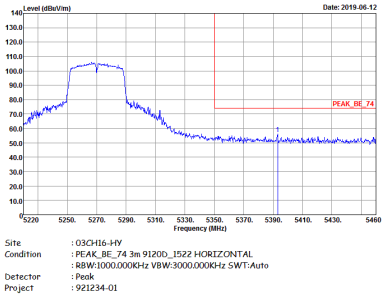
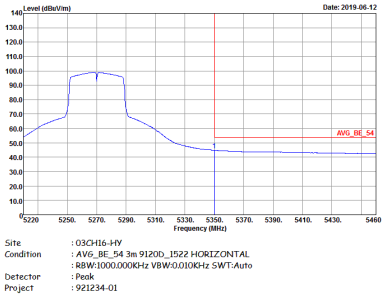
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

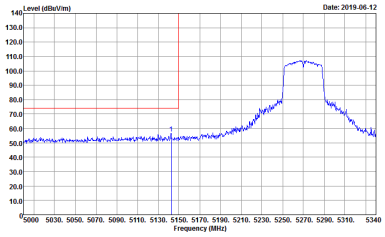
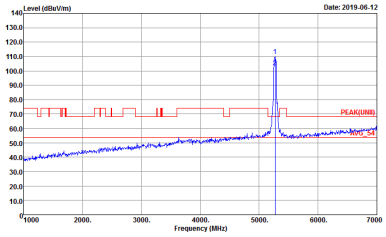
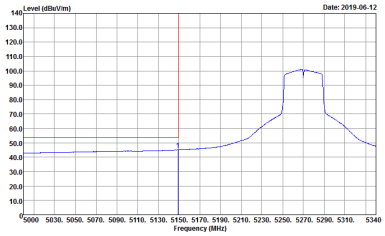
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

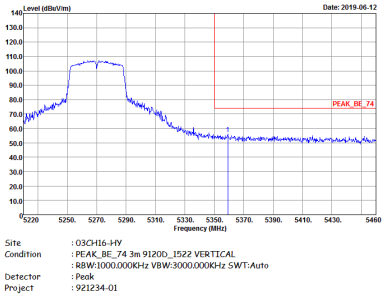
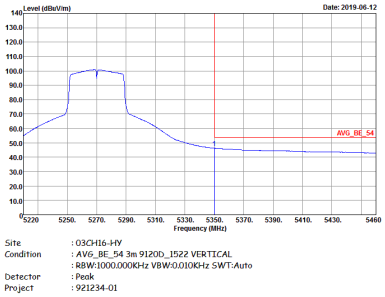
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

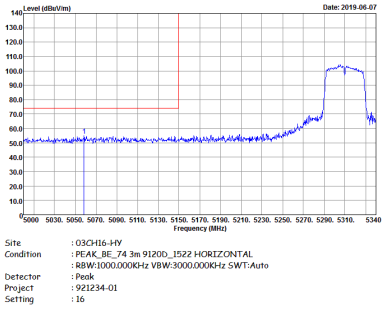
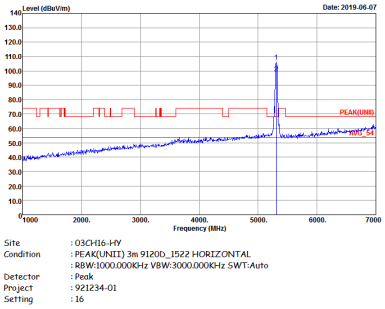
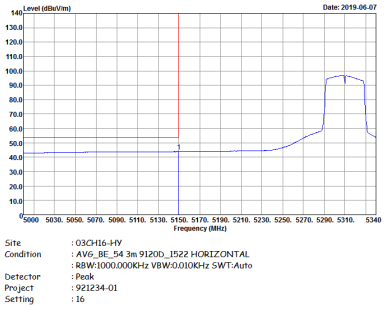
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

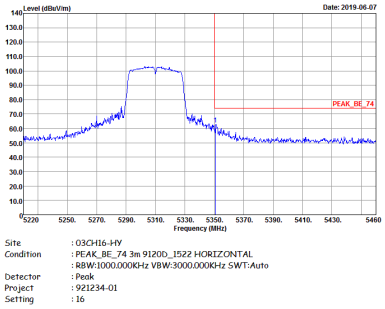
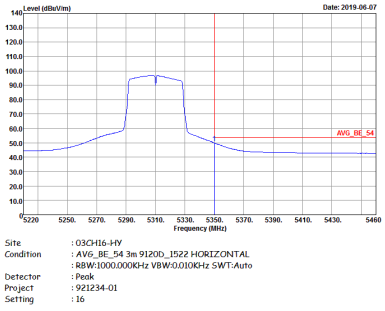
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

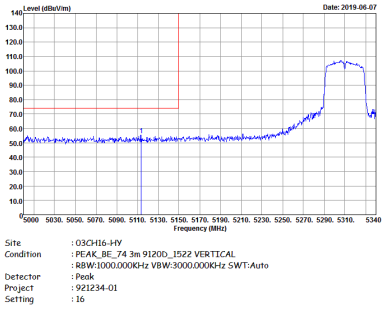
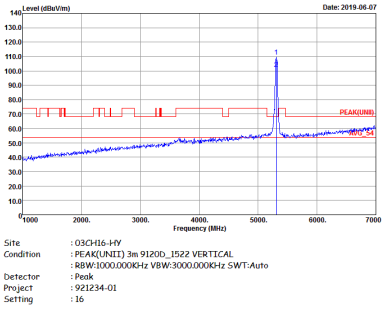
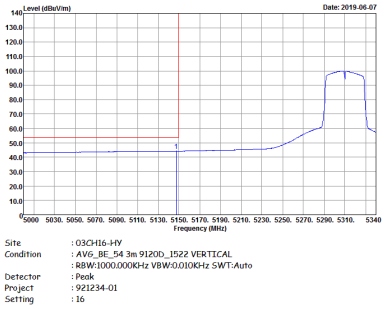
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

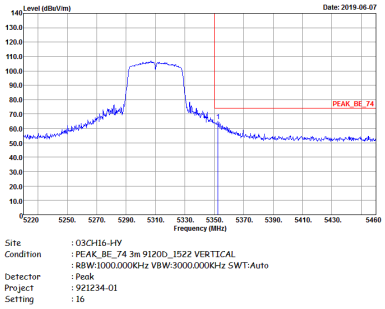
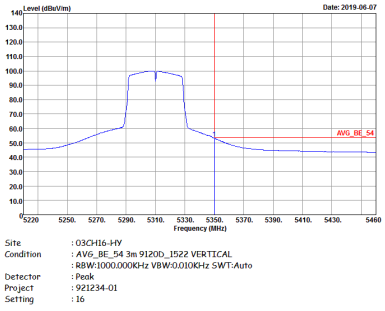
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
2	Vertical	Vertical
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

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

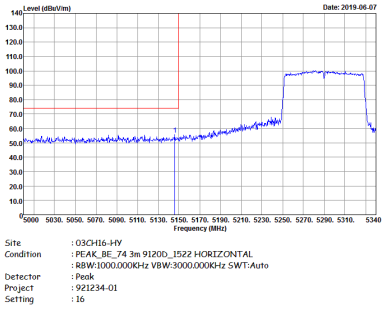
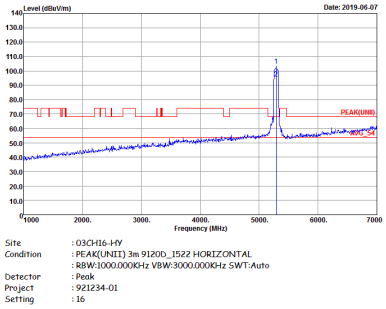
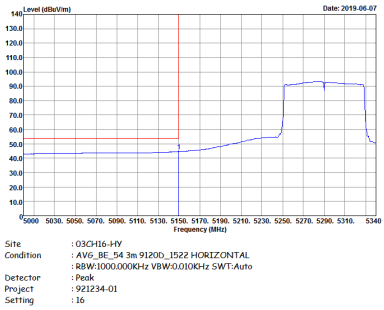
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

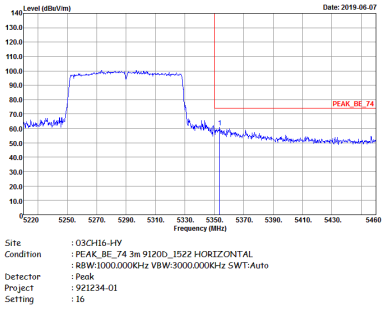
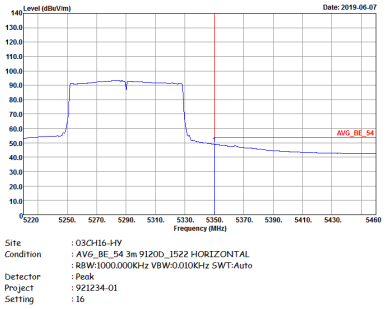
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

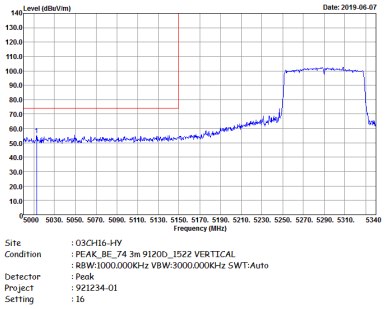
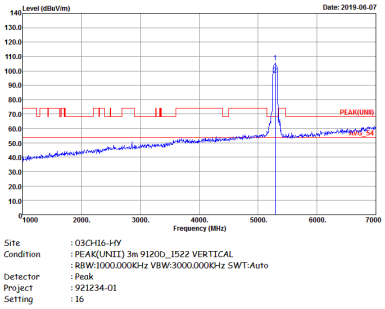
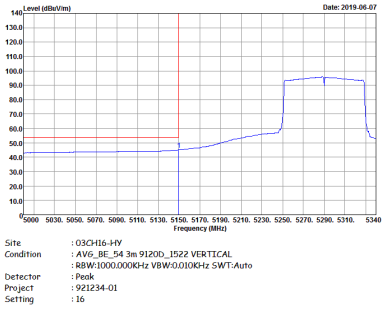
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

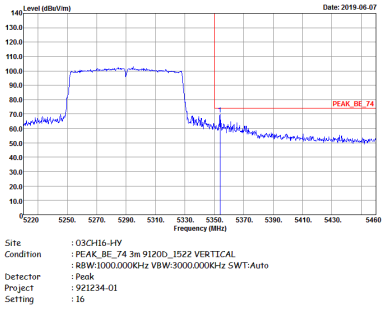
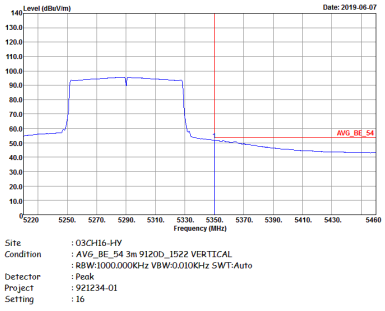
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

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

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

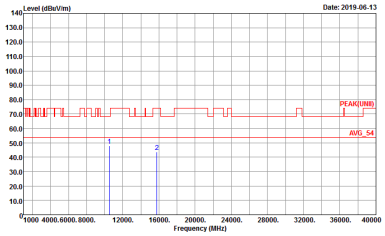
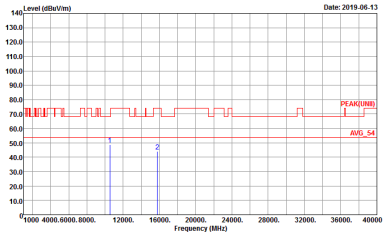
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

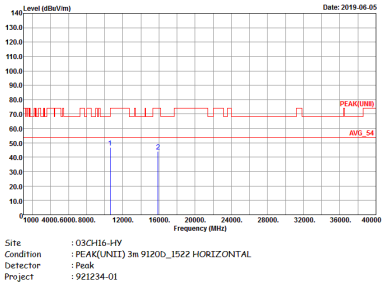
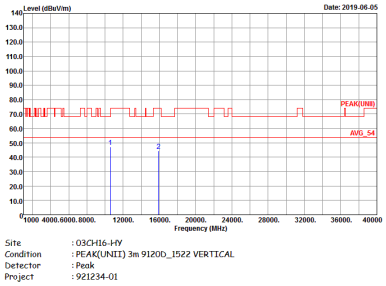
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

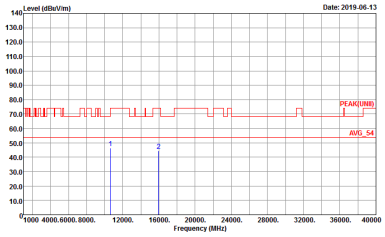
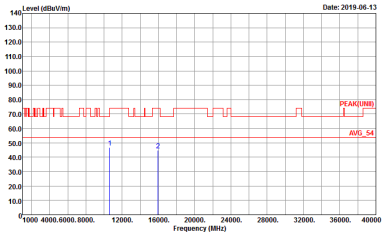
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

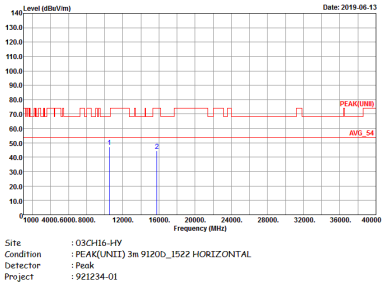
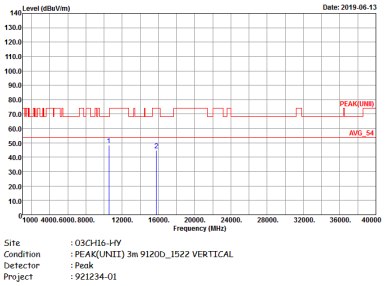
WIFI 802.11a (Harmonic @ 3m)

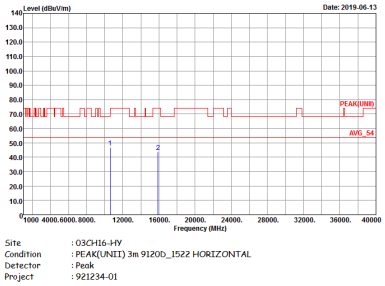
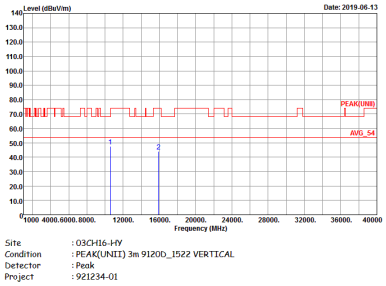
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

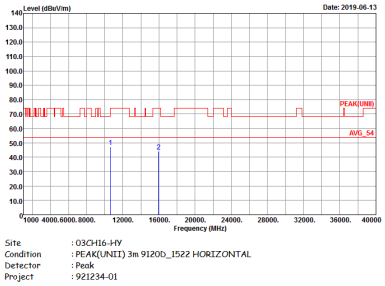
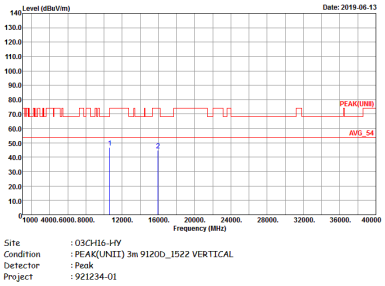
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

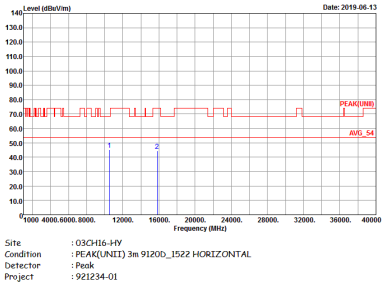
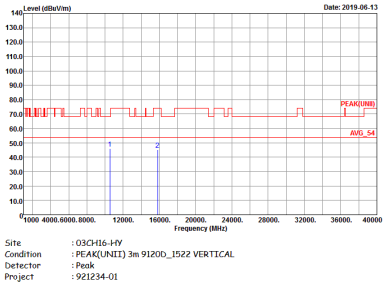
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

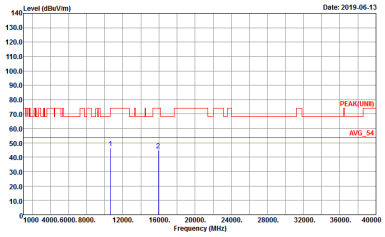
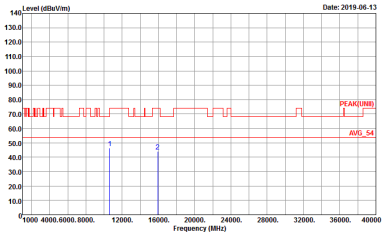
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.		

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

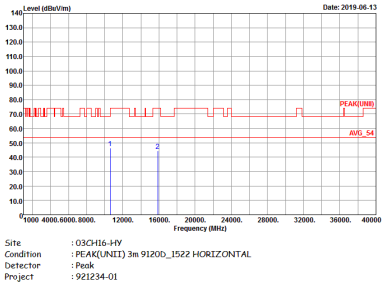
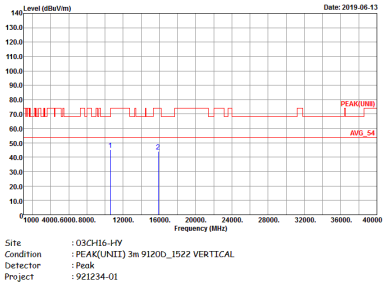
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

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

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

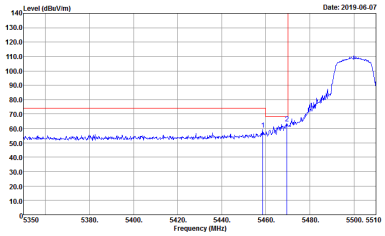
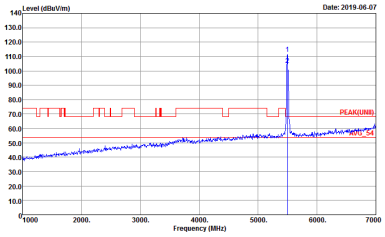
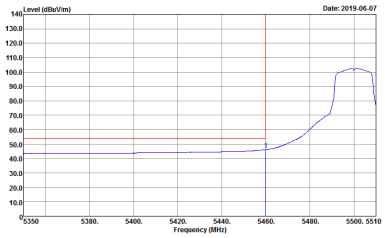
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

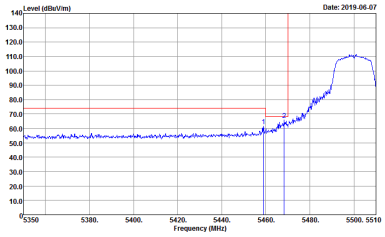
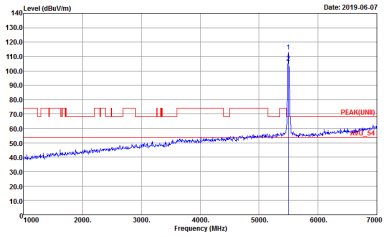
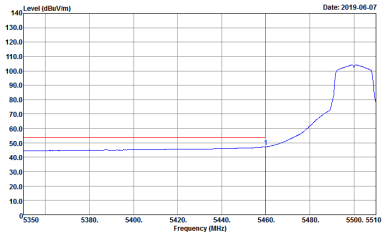
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

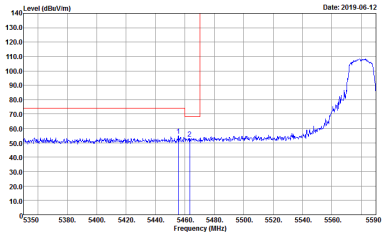
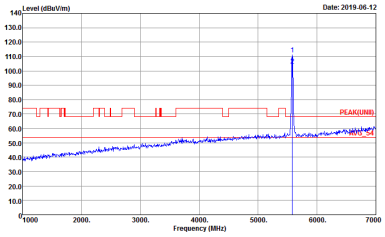
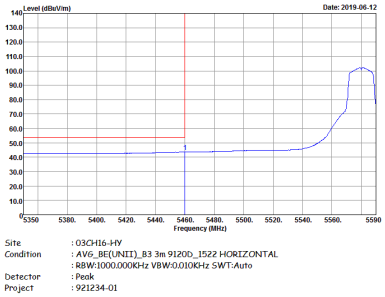
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
2	Horizontal	Vertical
Peak Avg.		

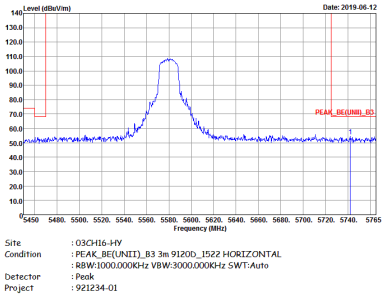
Band 3 - 5470~5725MHz

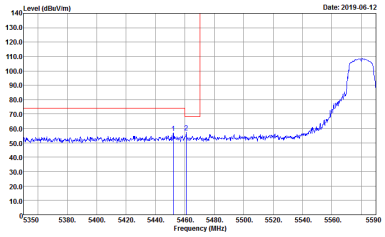
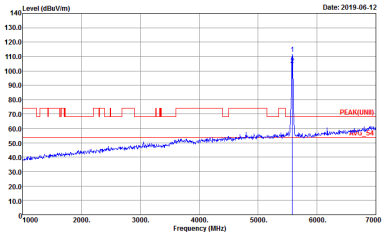
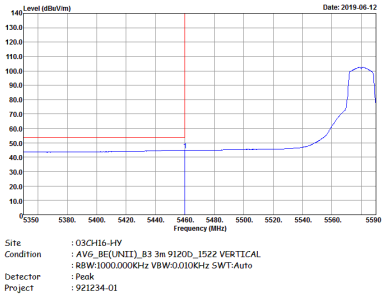
WIFI 802.11a (Band Edge @ 3m)

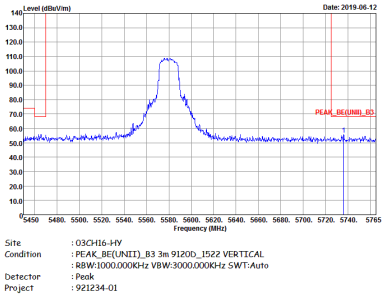
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

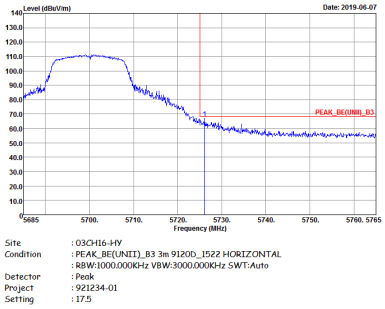
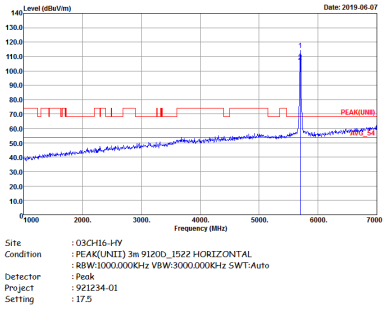
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

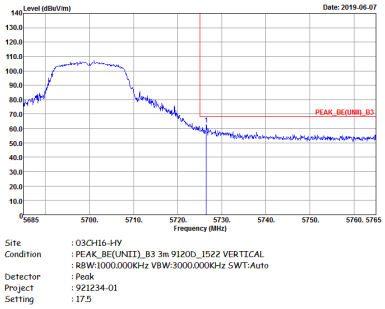
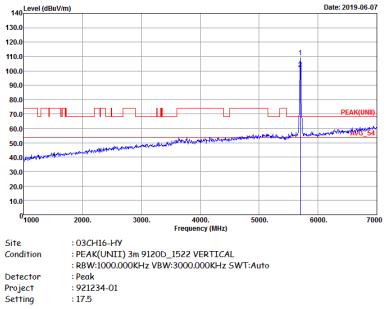
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

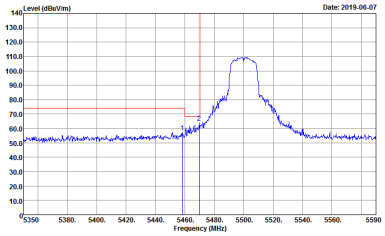
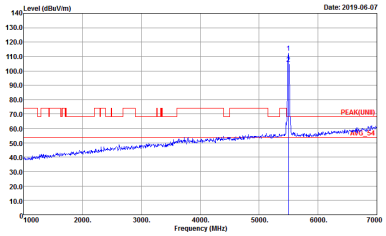
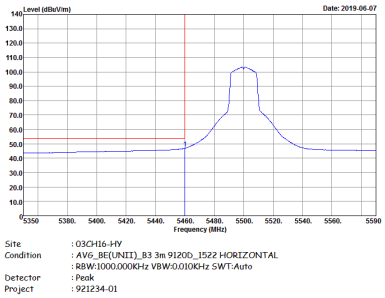
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

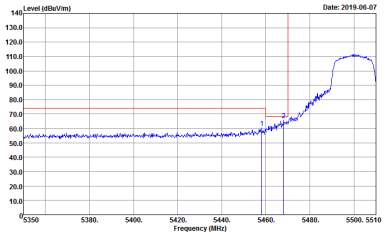
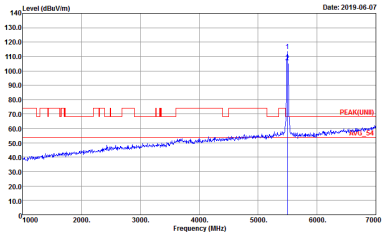
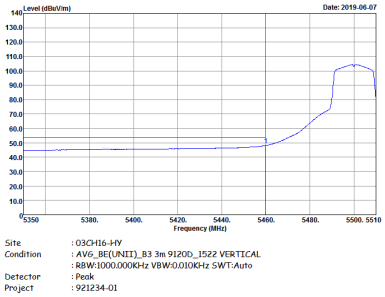
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Vertical	Fundamental
Peak		Left blank

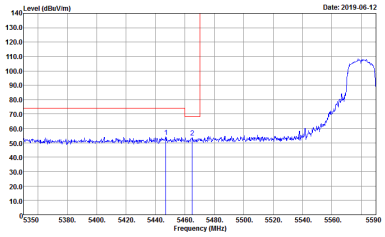
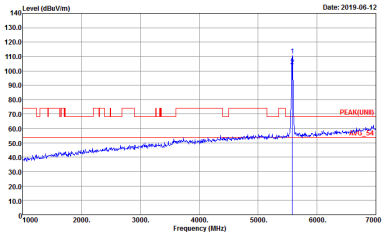
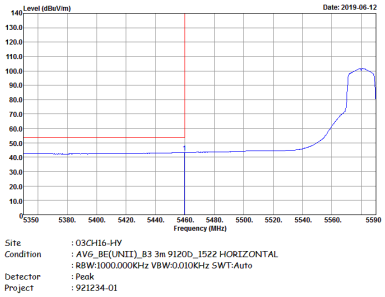
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

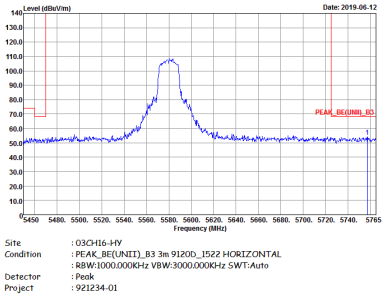
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak		

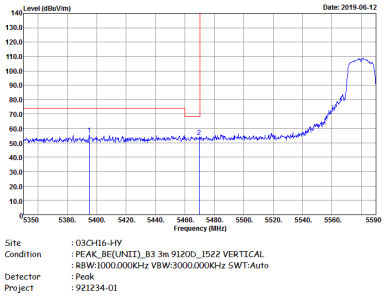
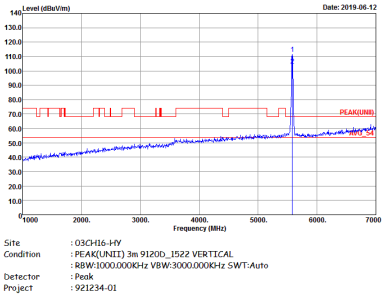
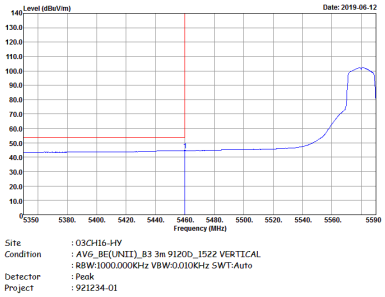
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

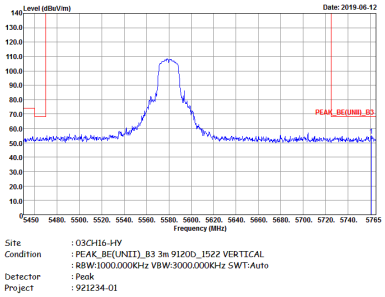
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

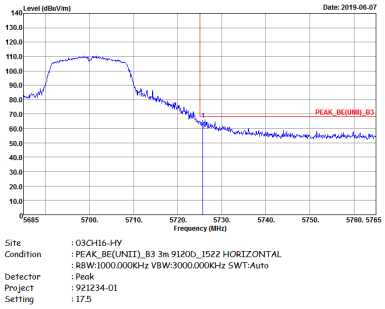
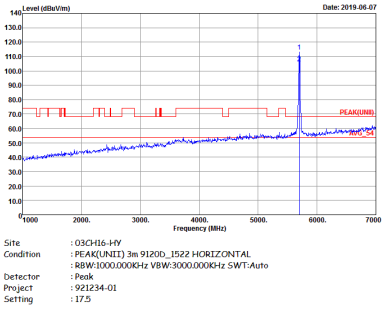
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

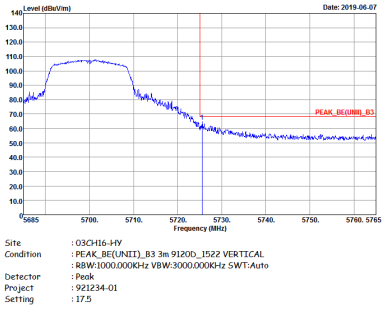
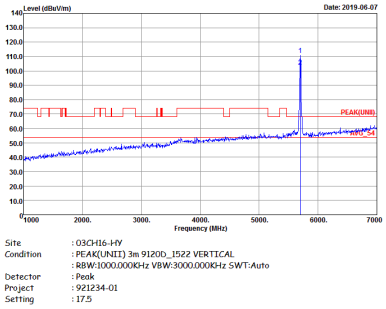
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

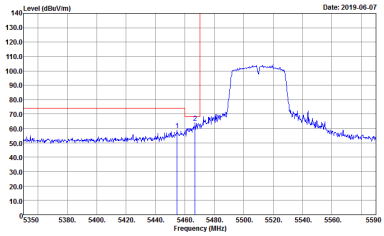
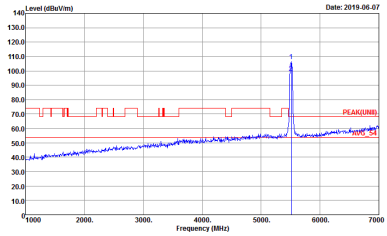
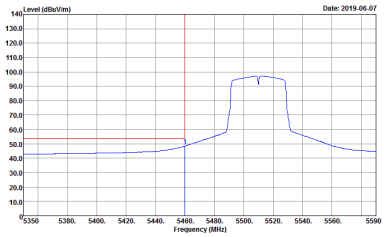
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

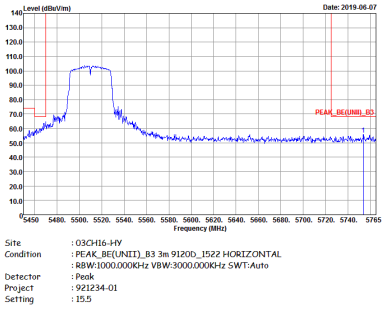
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Vertical	Fundamental
Peak		Left blank

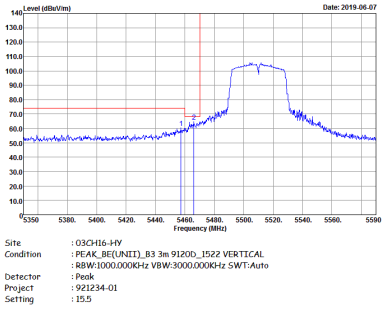
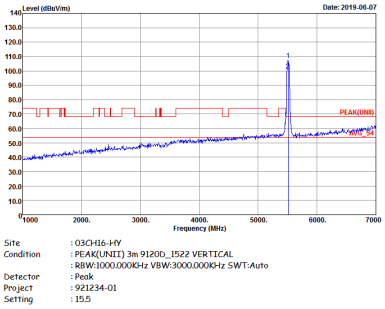
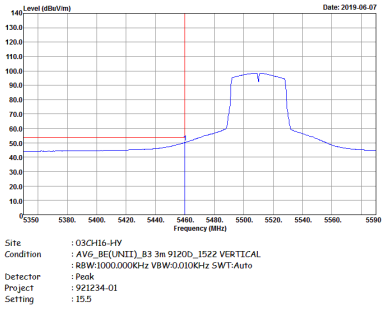
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Fundamental
Peak		

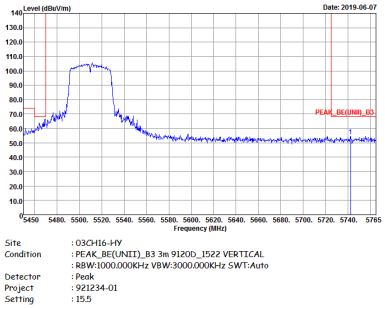
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Vertical	Fundamental
Peak.		

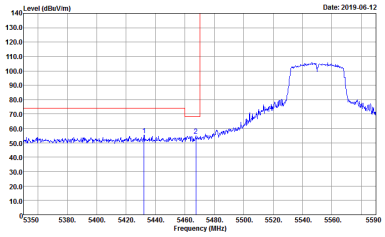
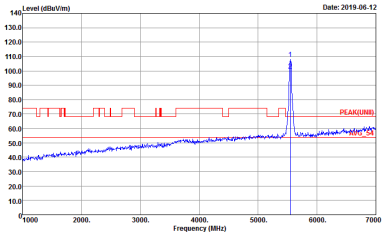
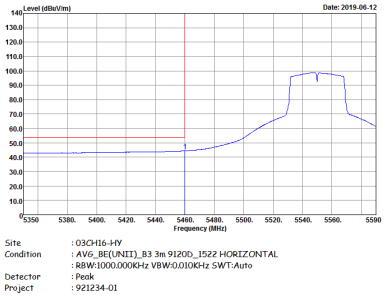
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

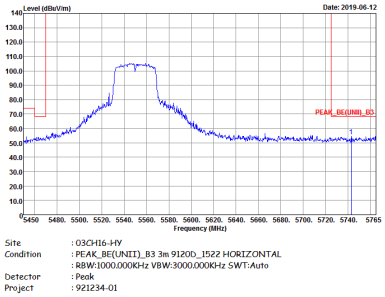
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01 Setting : 15.5	Left blank

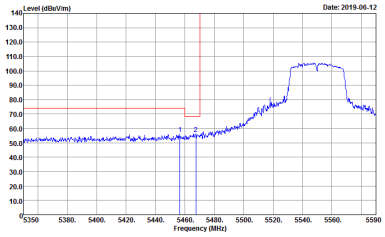
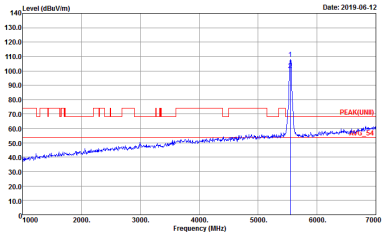
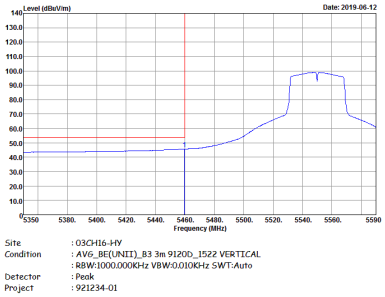
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

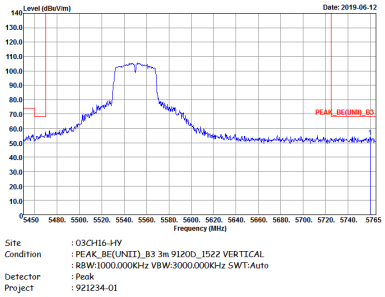
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

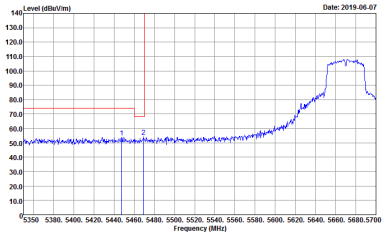
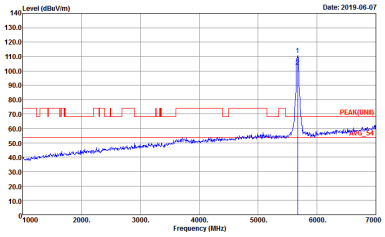
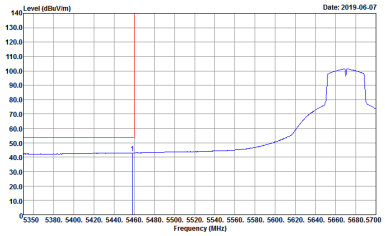
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
2	Vertical	Fundamental
Peak		Left blank

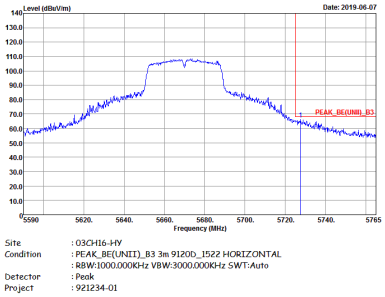
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

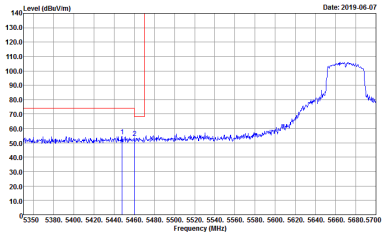
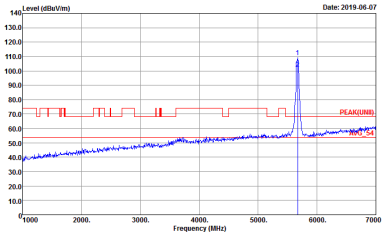
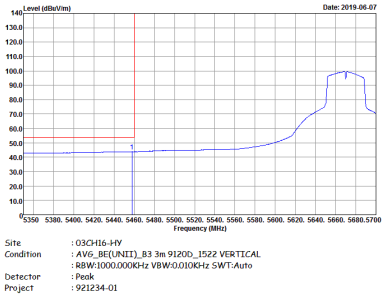
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

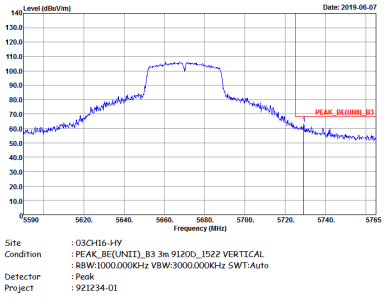
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

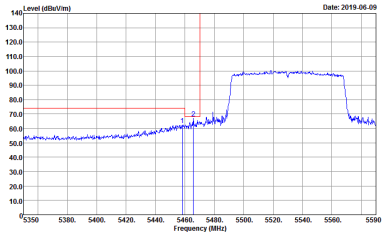
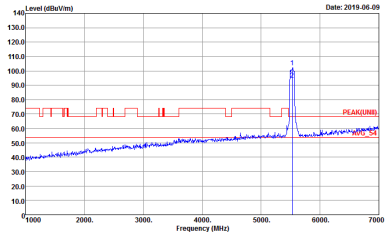
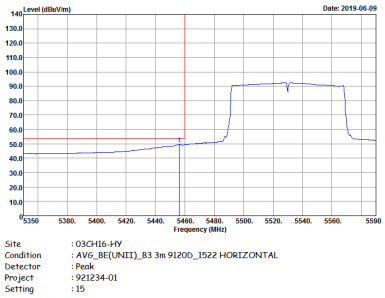
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

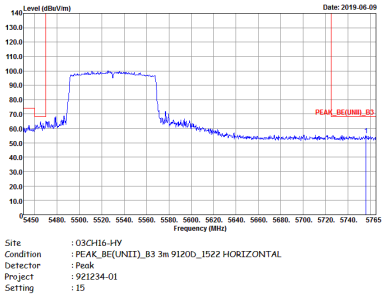
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

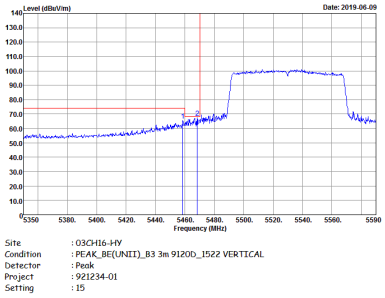
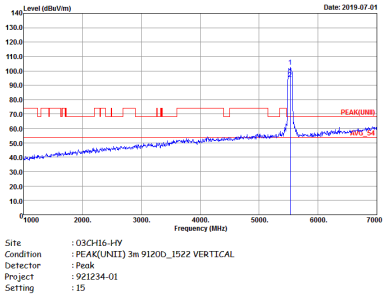
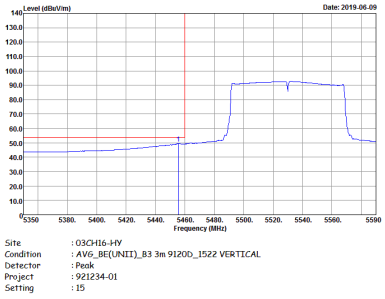
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

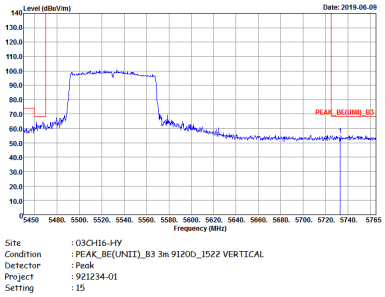
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
2	Vertical	Fundamental
Peak		Left blank

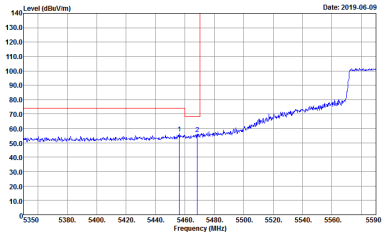
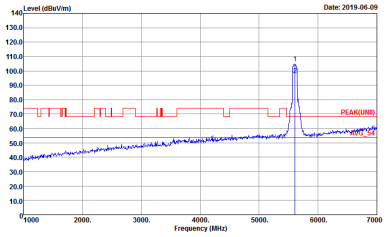
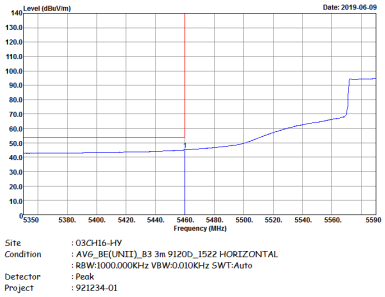
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

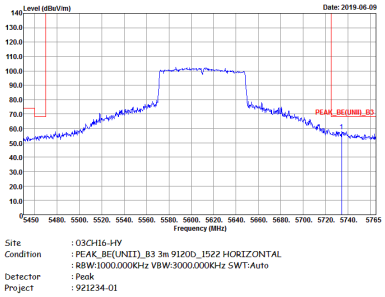
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

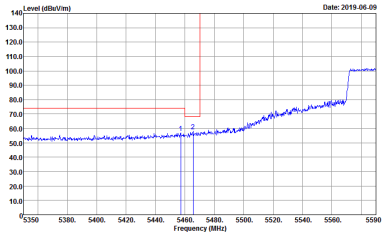
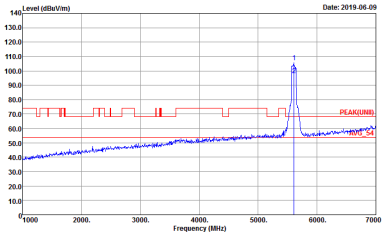
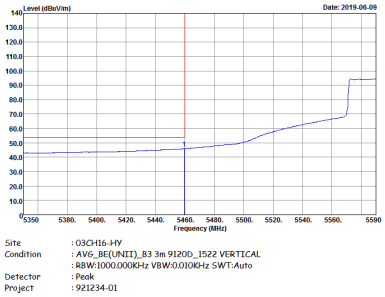
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

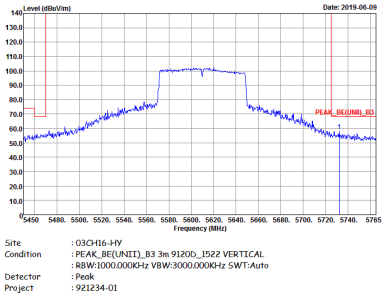
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

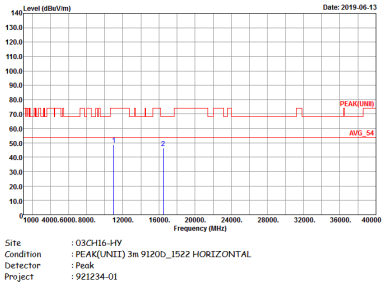
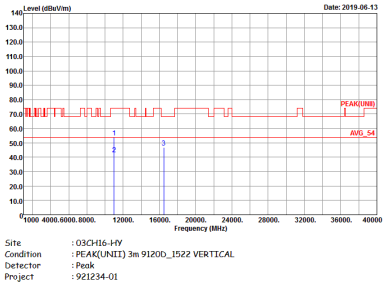
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
2	Horizontal	Fundamental
Peak		Left blank

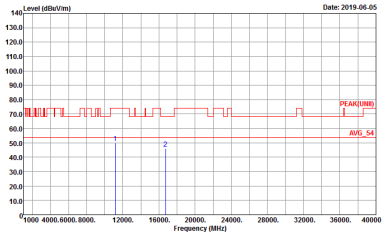
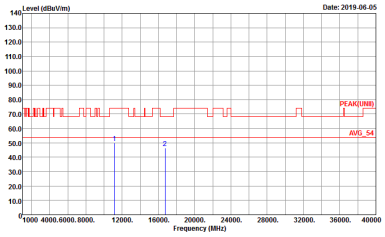
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

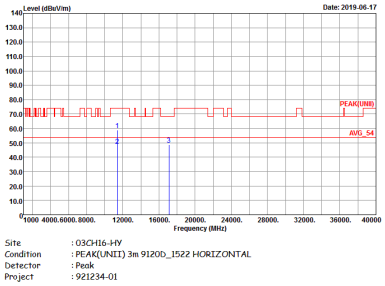
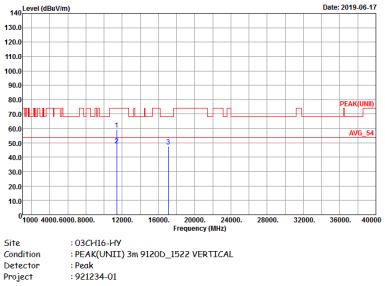
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

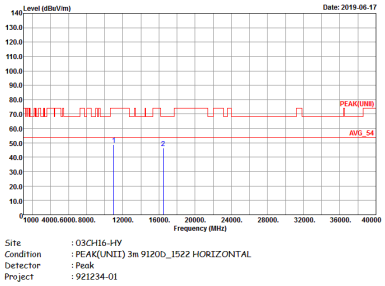
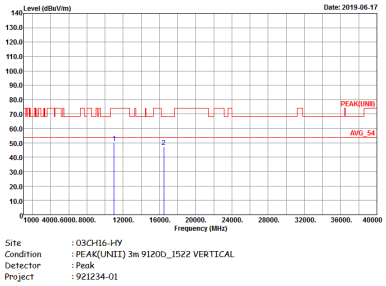
WIFI 802.11a (Harmonic @ 3m)

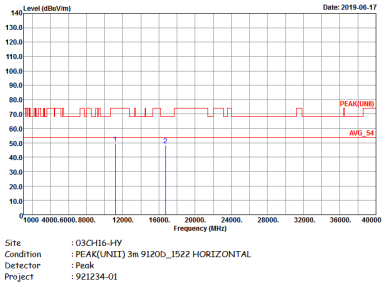
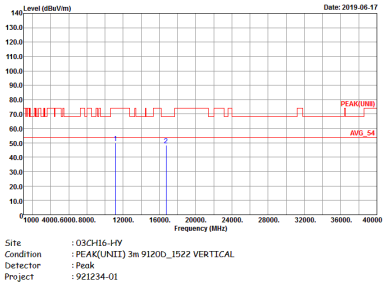
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

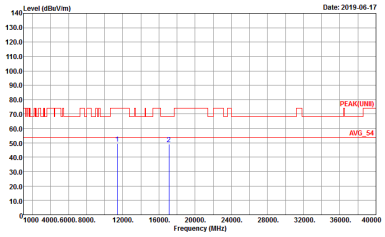
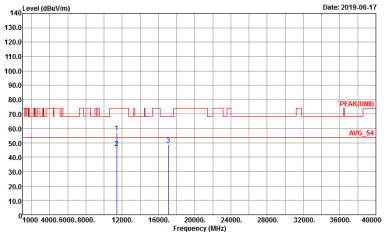
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01

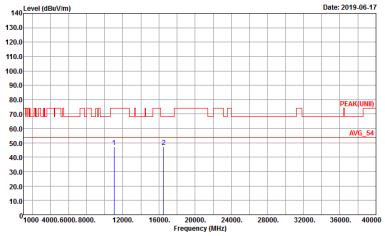
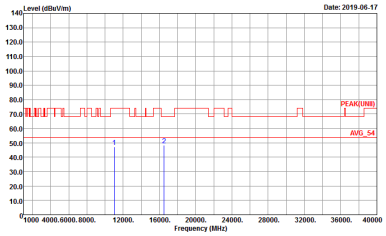
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

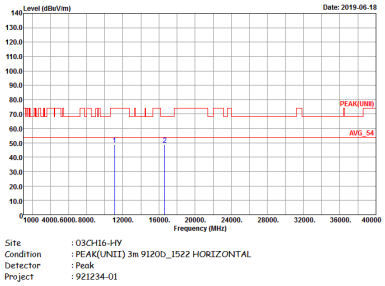
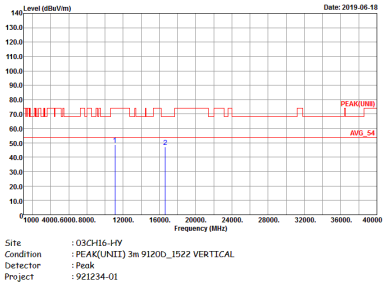
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

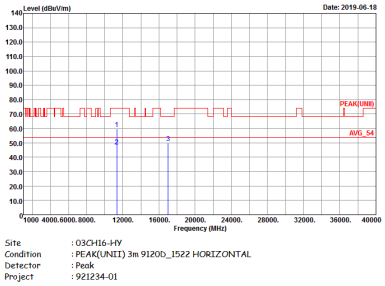
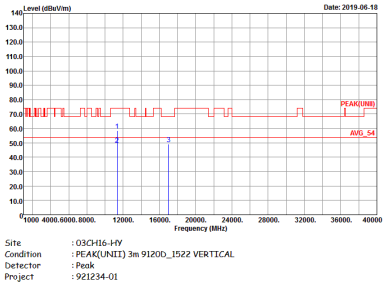
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 921234-01 Setting : 17.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL Detector : Peak Project : 921234-01 Setting : 17.5

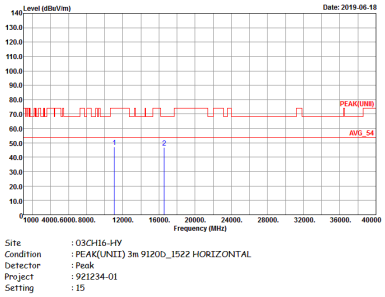
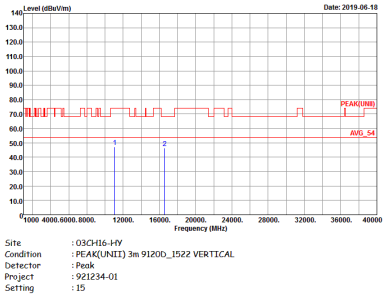
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

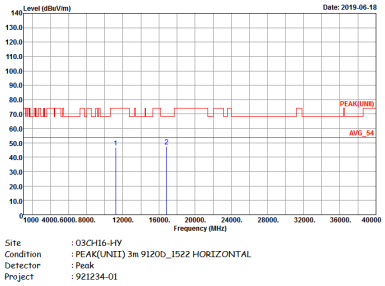
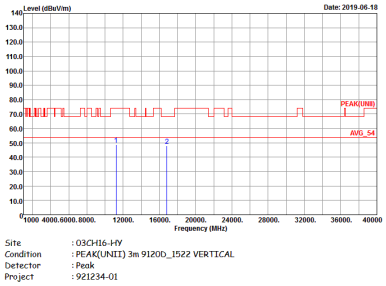
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
2	Horizontal	Vertical
Peak Avg.		

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

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

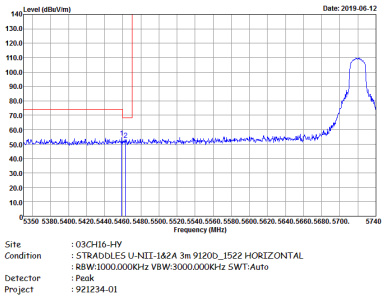
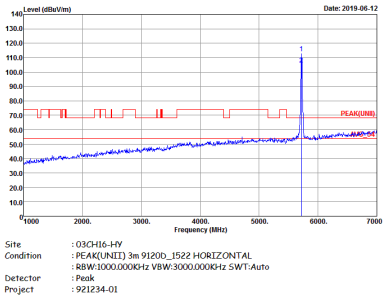
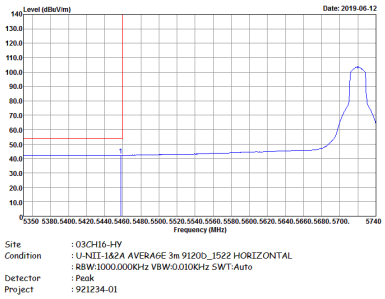
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

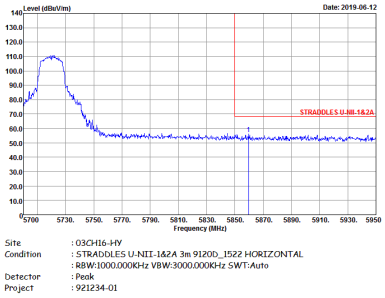
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
2	Horizontal	Vertical
Peak Avg.		

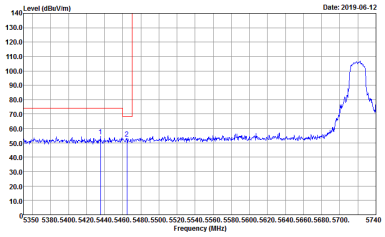
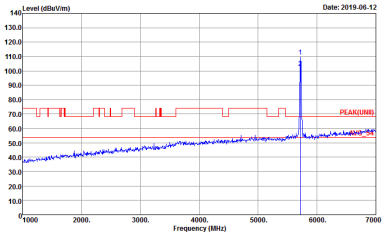
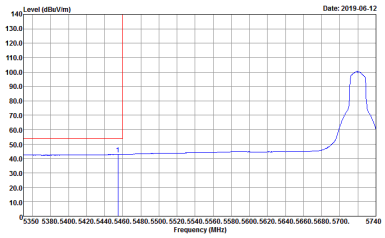
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
2	Horizontal	Vertical
Peak Avg.		

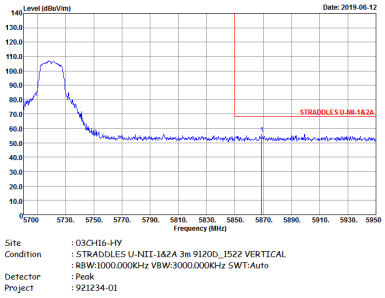
Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

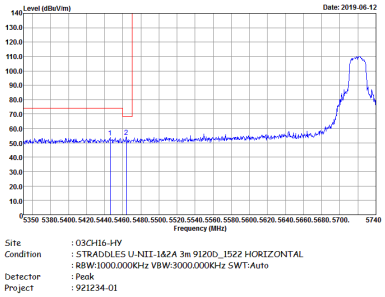
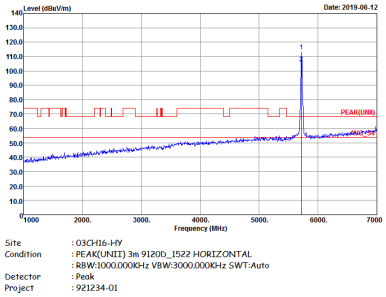
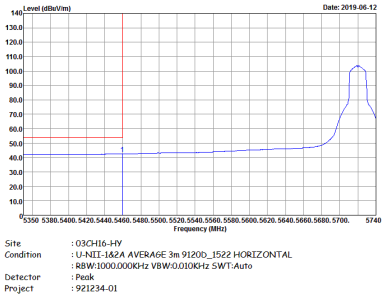
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

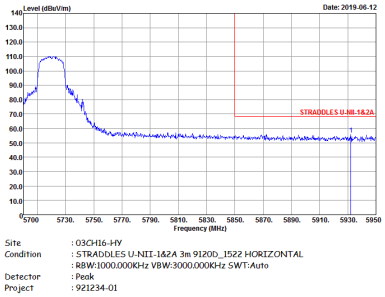
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz	
2	Horizontal	Fundamental
Peak		Left blank

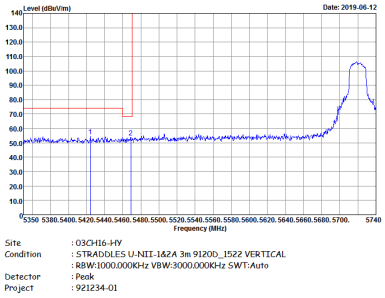
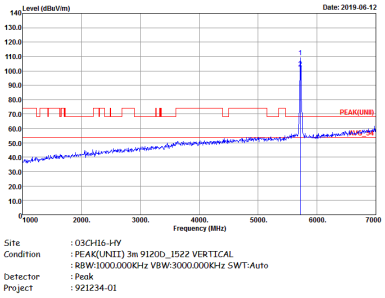
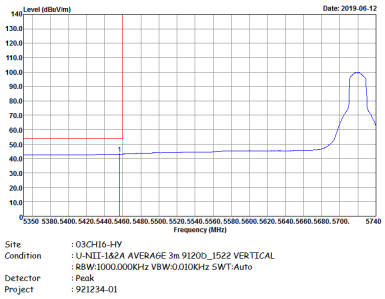
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : STRADDLES U-NII-1&2A 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : U-NII-1&2A AVERAGE 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

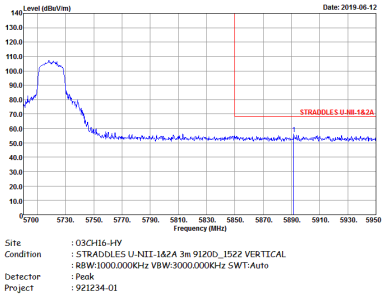
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz	
2	Vertical	Fundamental
Peak		Left blank

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

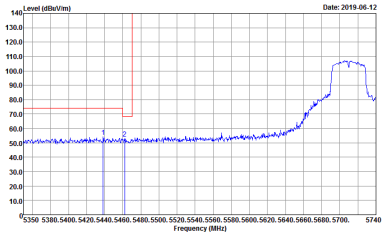
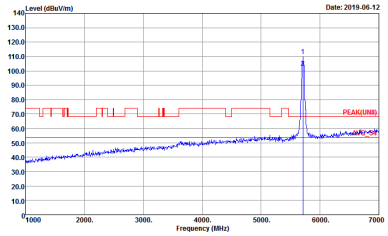
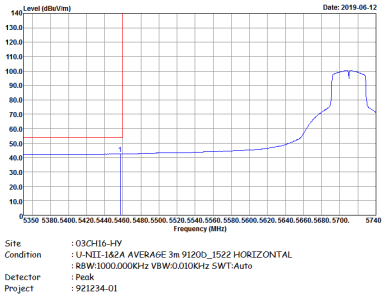
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

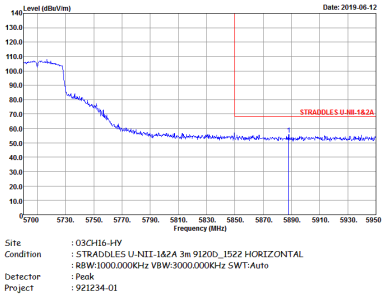
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
2	Horizontal	Fundamental
Peak		Left blank

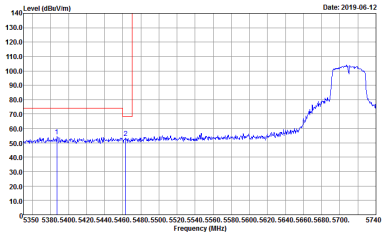
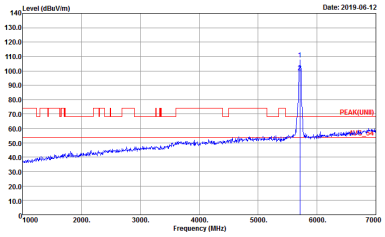
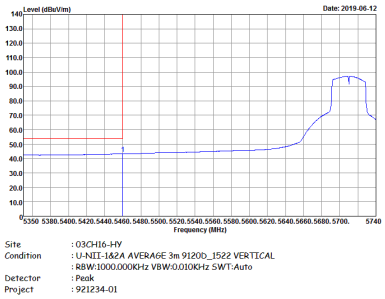
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

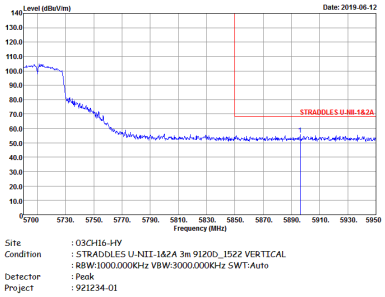
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
2	Vertical	Fundamental
Peak		Left blank

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

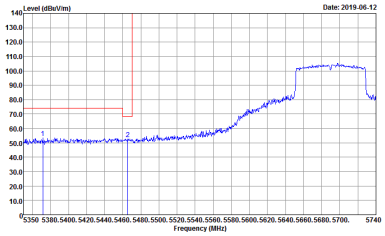
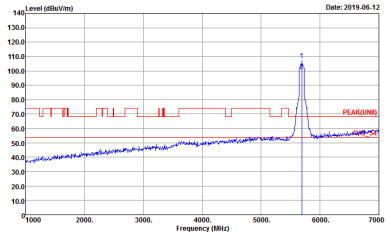
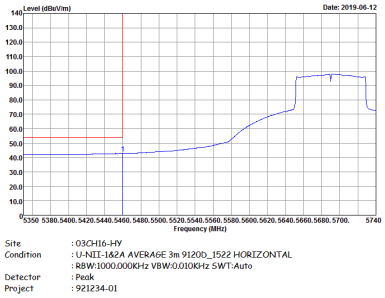
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

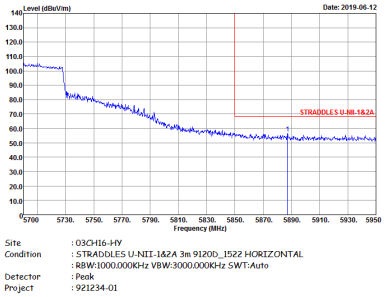
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
2	Horizontal	Fundamental
Peak		Left blank

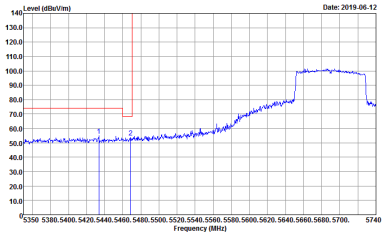
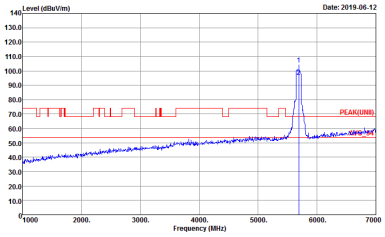
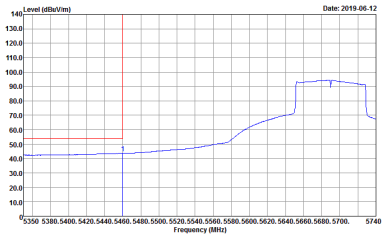
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
2	Vertical	Fundamental
Peak		
Avg.		Left blank

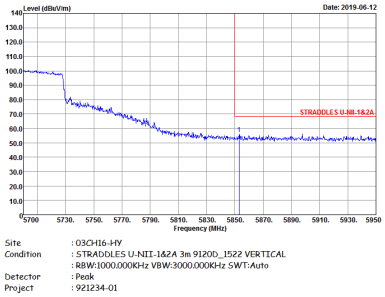
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
2	Vertical	Fundamental
Peak		Left blank

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

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Horizontal	Fundamental
Peak		
Avg.		Left blank

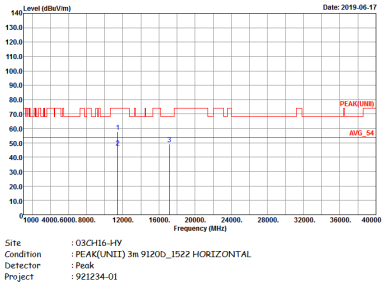
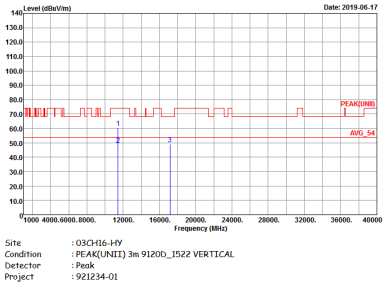
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : STRADDLES U-NII-1&2A 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 921234-01
Avg.	 Site : 03CH16-HY Condition : U-NII-1&2A AVERAGE 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 921234-01	Left blank

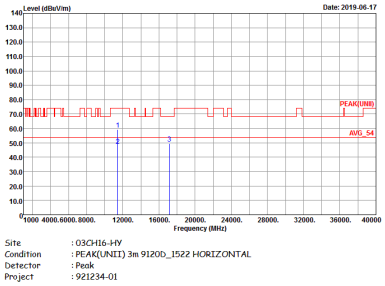
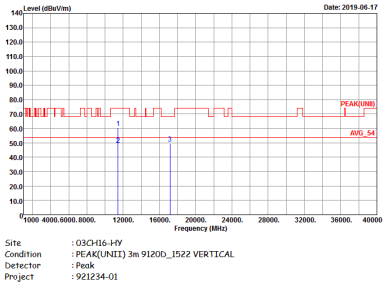
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
2	Vertical	Fundamental
Peak		Left blank

Band 3 - Straddle Channel

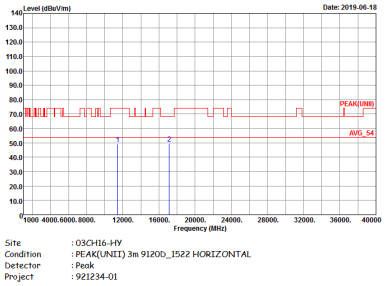
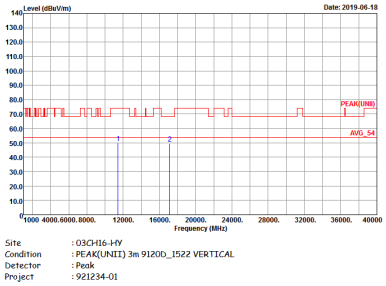
WIFI 802.11a (Harmonic @ 3m)

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

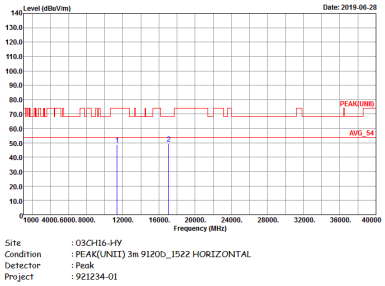
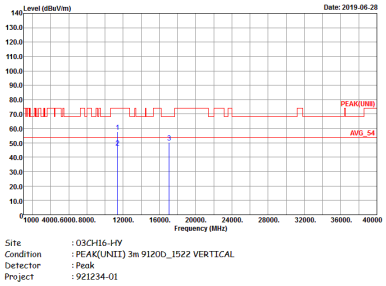
Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

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

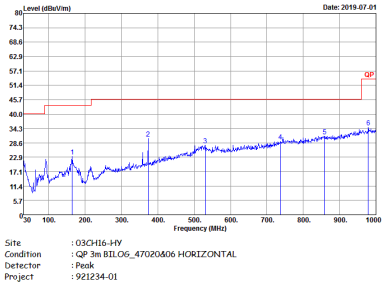
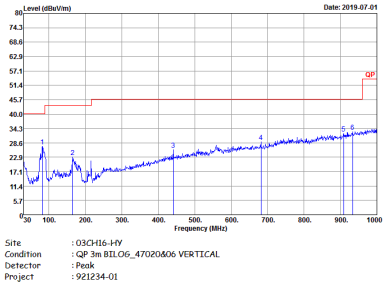
Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

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

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

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

Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF)

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