FCC RF Test Report

APPLICANT	**:**	**Ubiquiti Networks, Inc.**
EQUIPMENT	**:**	**NanoBeam AC**
BRAND NAME	**:**	**UBIQUITI**
MODEL NAME	**:**	**NBE-5AC-Gen2**
FCC ID	**:**	**SWX-NBE5ACG2W**
STANDARD	**:**	**FCC Part 15 Subpart E §15.407**
CLASSIFICATION	**:**	**(NII) Unlicensed National Information Infrastructure**

The product was received on May 30, 2017 and testing was completed on Sep. 05, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR561115-03B	Rev. 01	Initial issue of report	Sep. 05, 2017
FR561115-03B	Rev. 02	Revised the description in section 3.2.1 and 3.3.1.	Sep. 07, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 30 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 17 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 0.34 dB at 5149.760 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.80 dB at 0.150 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York, New York 10017 USA

1.2 Manufacturer

Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York, New York 10017 USA

1.3 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WLAN: Internal Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH02-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.
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.**
	03CH13-HY

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

1.6 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 v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01.
- 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 three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	32	5160	41	5205
	33	5165	42#	5210
	34	5170	43	5215
	35	5175	44	5220
	36	5180	45	5225
	37	5185	46*	5230
	38*	5190	47	5235
	39	5195	48	5240
	40	5200	49	5245

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 mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11ac VHT10	Vt0
802.11ac VHT20	Vt0
802.11ac VHT30	Vt0
802.11ac VHT40	Vf0
802.11ac VHT50	Vf0
802.11ac VHT60	Vf0
802.11ac VHT80	Ve0

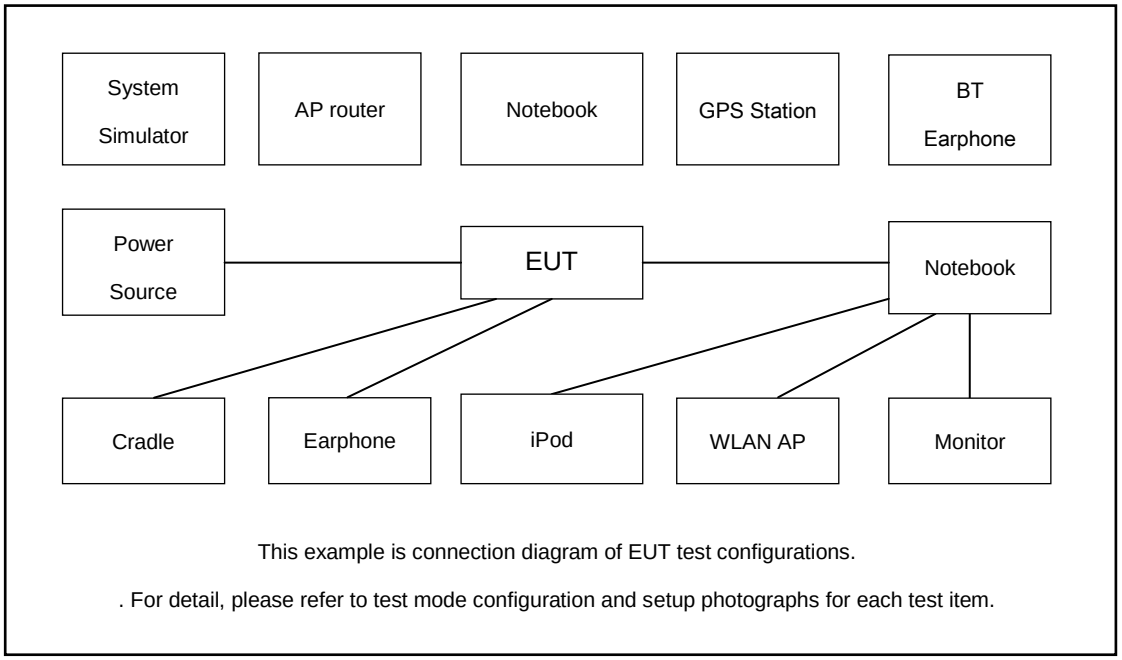
Test Cases	
AC Conducted Emission	Mode 1 ： WLAN (2.4GHz) Idle + WLAN (5GHz) Link + LAN Link + PoE Adapter

Ch. #		Band I：5150-5250 MHz	Band I：5150-5250 MHz	Band I：5150-5250 MHz
		802.11ac VHT10	802.11ac VHT20	802.11ac VHT30
L	Low	32	33	34
M	Middle	40	40	40
H	High	49	48	47

Ch. #		Band I：5150-5250 MHz	Band I：5150-5250 MHz	Band I：5150-5250 MHz
		802.11ac VHT40	802.11ac VHT50	802.11ac VHT60
L	Low	35	36	37
M	Middle	40	40	40
H	High	46	45	44

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

2.3 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	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
2.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Smart Phone	Apple	iPhone 6 Plus	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, “CMD” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving 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.

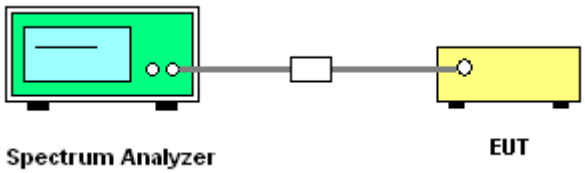
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. 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 1MHz 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 Plots

Please refer to Appendix A.

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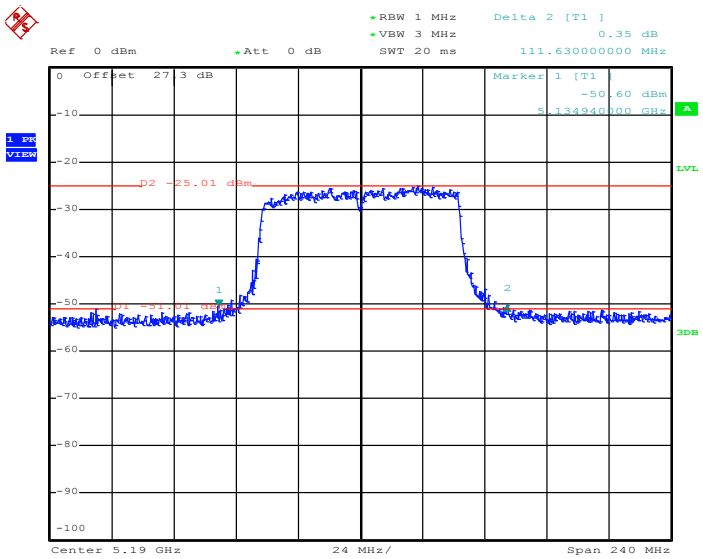
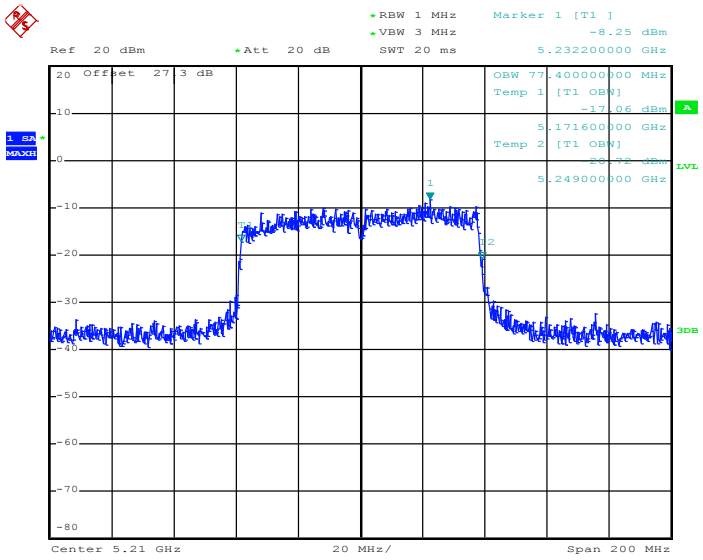
Maximum 26dB Bandwidth



Date: 25.AUG.2017 01:01:01

Maximum 99% Occupied Bandwidth



Date: 25.AUG.2017 00:51:41

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

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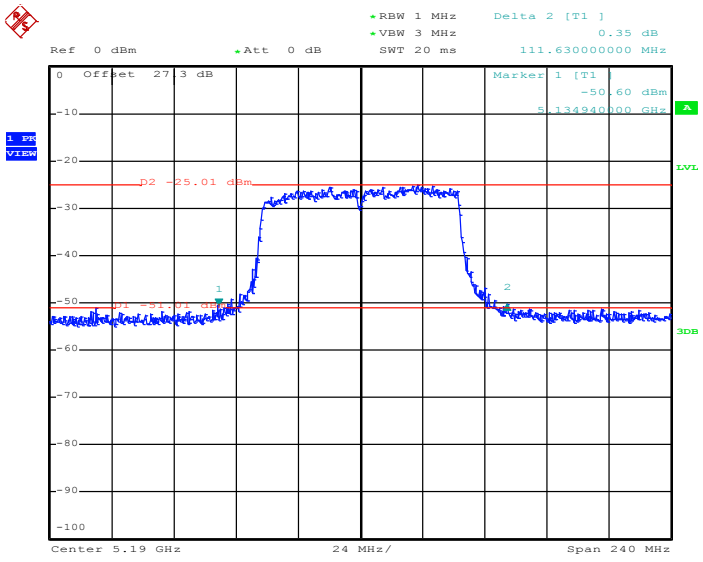
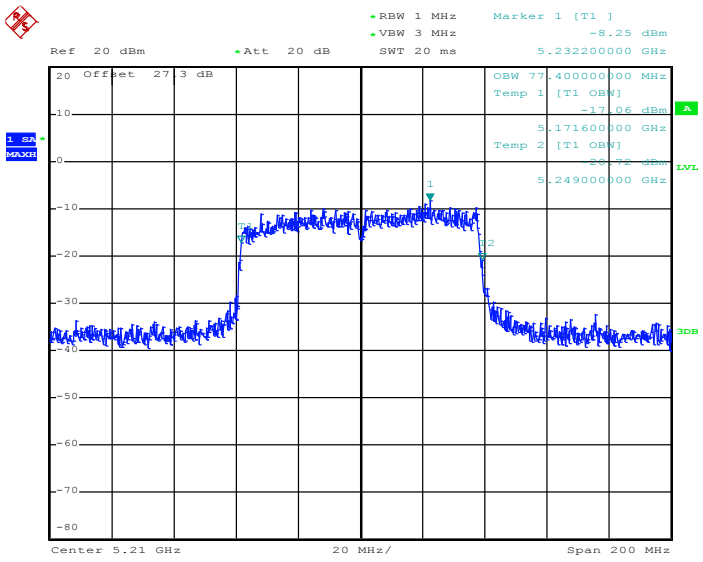
Maximum 26dB Bandwidth



Date: 25.AUG.2017 01:01:01

Maximum 99% Occupied Bandwidth



Date: 25.AUG.2017 00:51:41

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

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For fixed point-to-point access points 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.

Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power.

For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi.

PTMP

For an outdoor 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 provided the maximum antenna gain does not exceed 6 dBi.

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.

The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

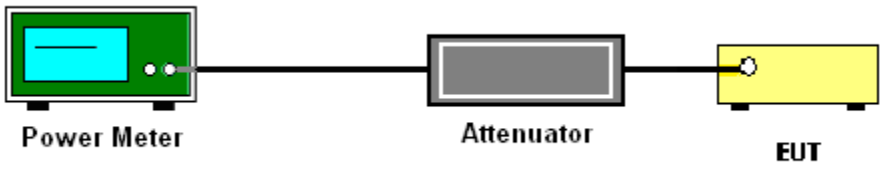
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.

3.2.4 Test Setup

For normal channel:



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

PTP

For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

PTMP

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

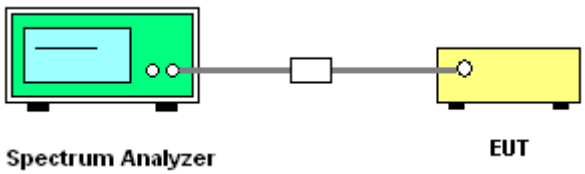
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section F) Maximum power spectral density.

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
   - Measure the duty cycle.
   - 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 = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. 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.

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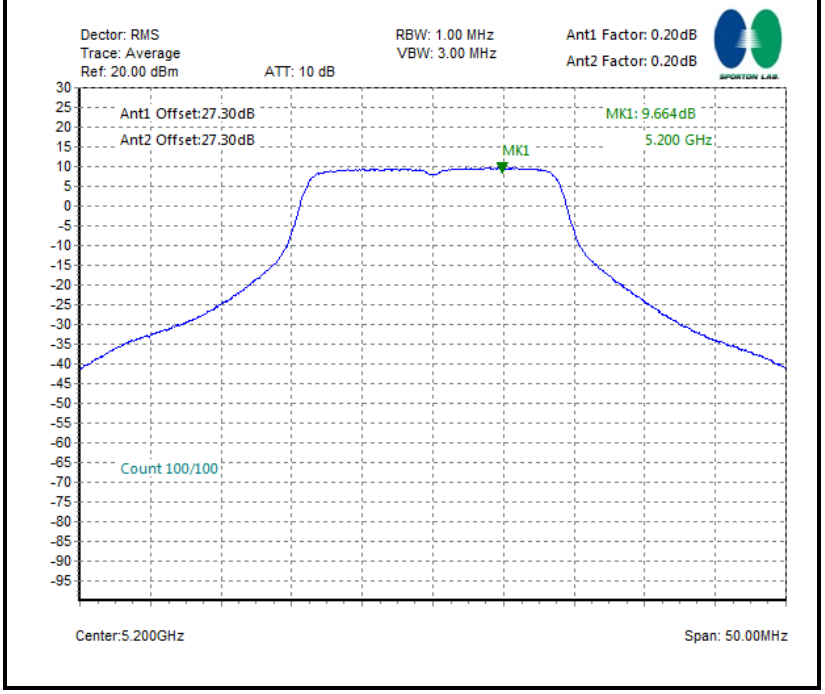
Worst Case Power Spectral Density(dBm/MHz)



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

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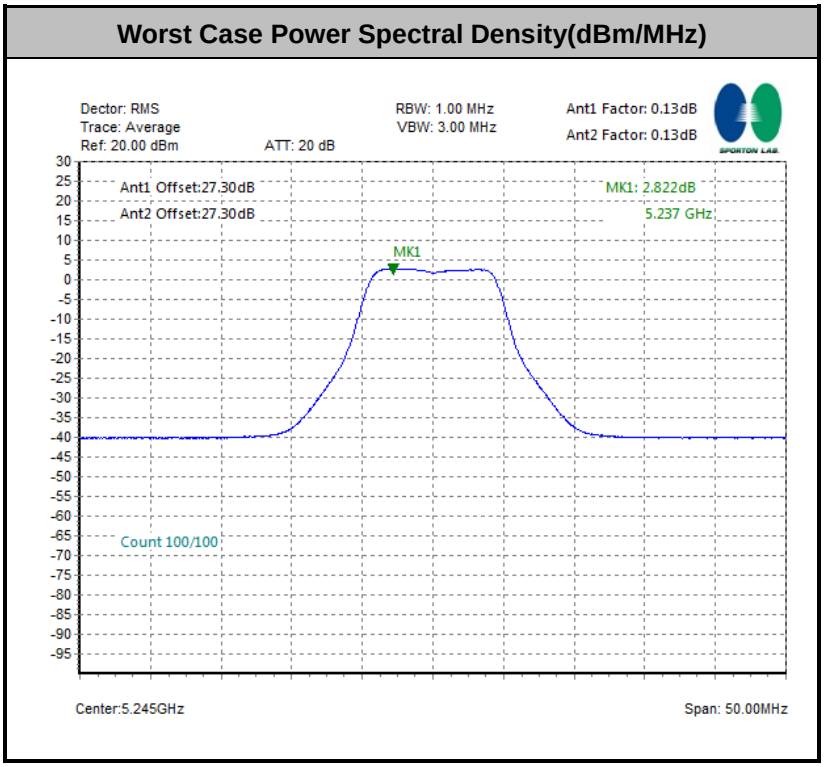
Worst Case Power Spectral Density(dBm/MHz)



3.4 Unwanted Radiated Emission 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.

(2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 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.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

(3) KDB789033 D02 v01r04 G)2)c)

(i) Section 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and 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. However, 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 dBm/MHz peak emission limit.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). 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 alternative limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. 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

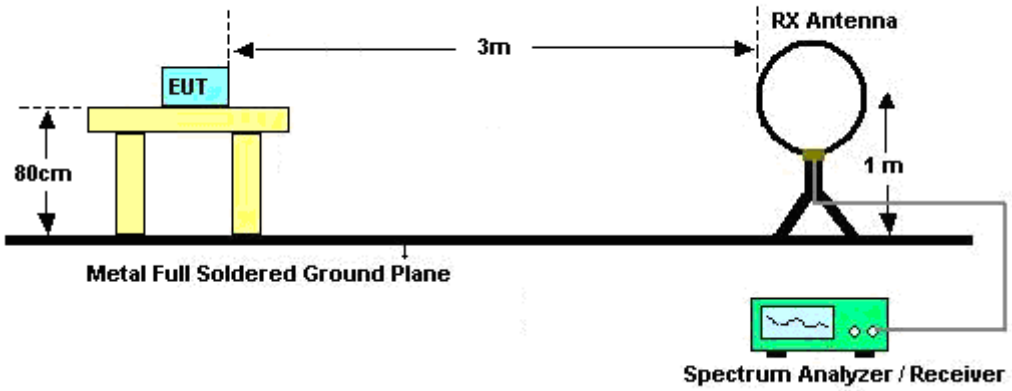
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

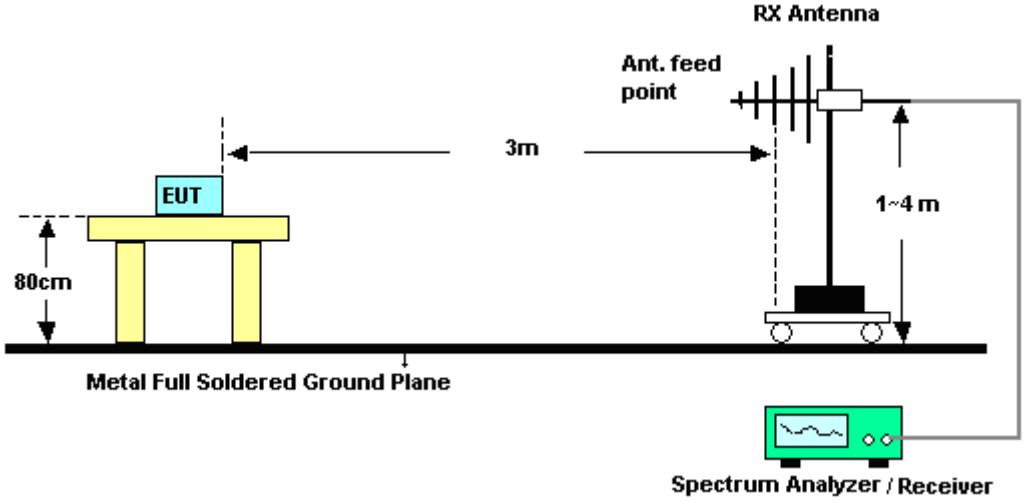
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

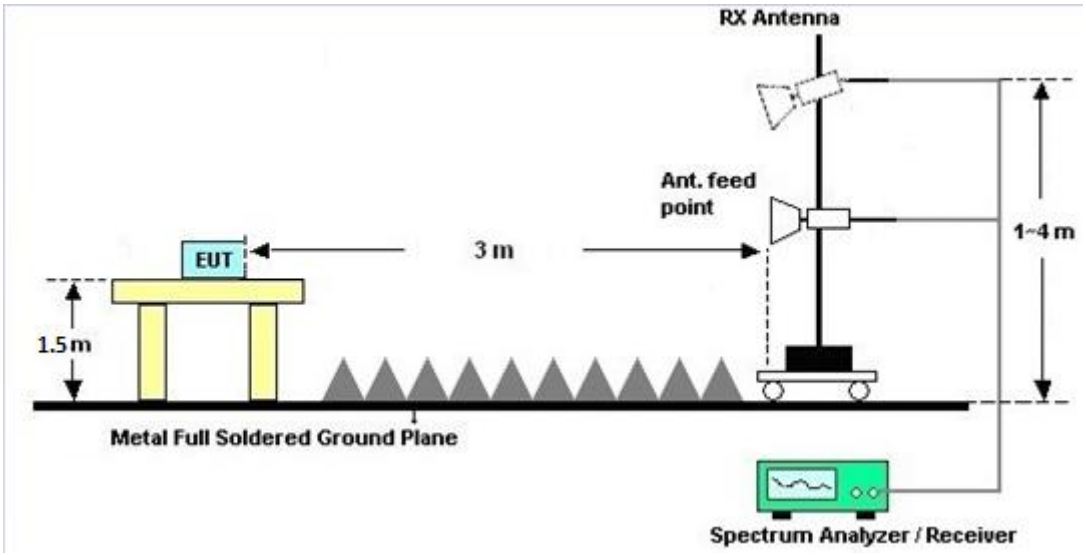
For radiated emissions below 30MHz



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.

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 Emission (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.

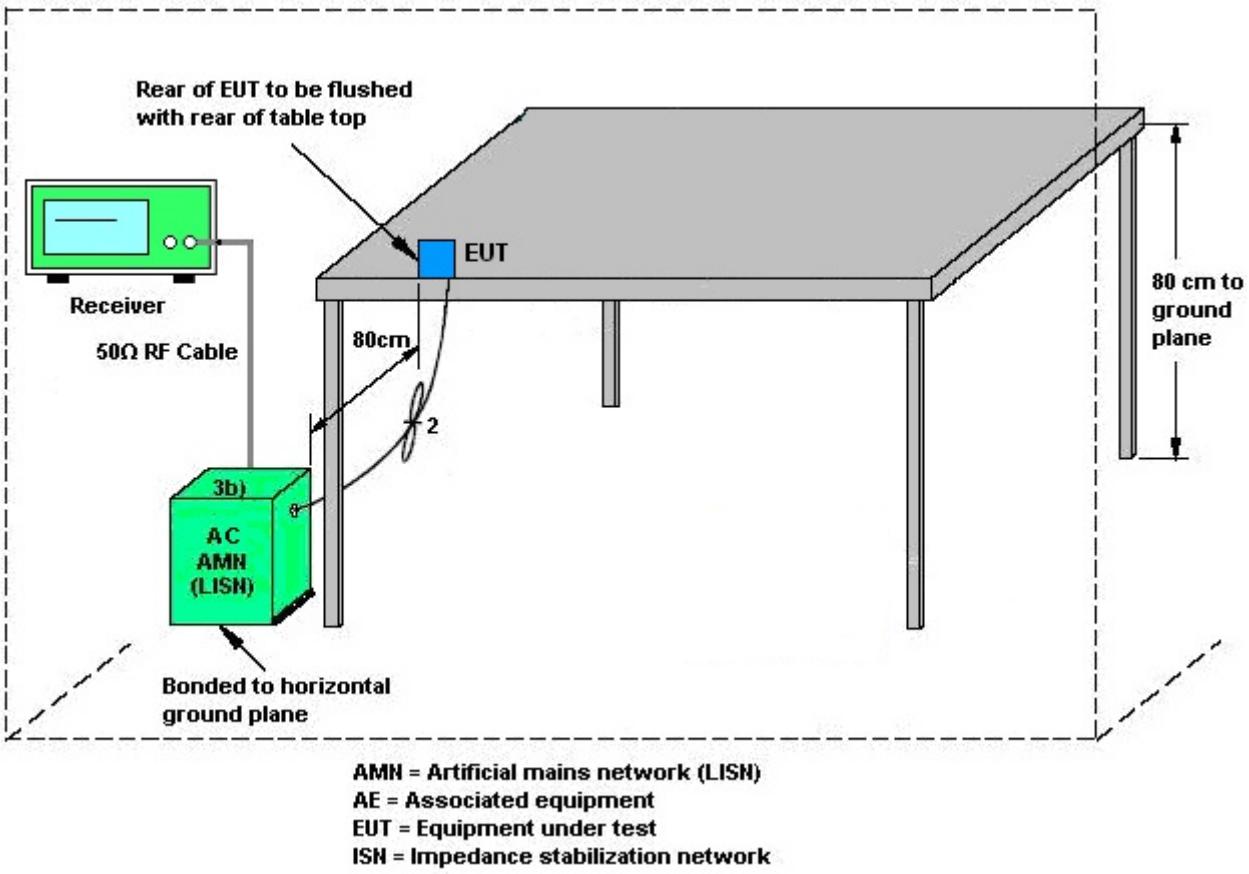
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

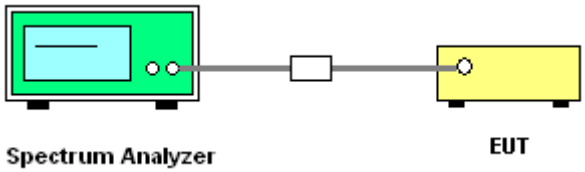
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.7 Automatically Discontinue Transmission

3.7.1 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.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

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

3.8 Antenna Requirements

3.8.1 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.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

CDD modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB.

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<PTP>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	17.00	17.00	17.00	20.01	0.00	0.00

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	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	17.00	17.00	17.00	20.01	11.00	14.01

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Aug. 05, 2017 ~ Sep. 05, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Aug. 05, 2017 ~ Sep. 05, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 25, 2016	Aug. 05, 2017 ~ Sep. 05, 2017	Nov. 24, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Jun. 07, 2017	Aug. 05, 2017 ~ Sep. 05, 2017	Jun. 06, 2018	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 01, 2016	Aug. 05, 2017 ~ Sep. 05, 2017	Nov. 30, 2017	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	May 15, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	May 14, 2019	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Aug. 07, 2017 ~ Aug. 24, 2017	Dec. 20, 2017	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&04	30MHz to 1GHz	Jan. 07, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	Jan. 06, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	May 02, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	May 01, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	May 21, 2018	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 09, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	Jan. 08, 2018	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 15, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	Mar. 14, 2018	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 07, 2017 ~ Aug. 24, 2017	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 07, 2017 ~ Aug. 24, 2017	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Aug. 07, 2017 ~ Aug. 24, 2017	Jan. 11, 2018	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Aug. 07, 2017 ~ Aug. 24, 2017	Nov. 07, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	TTA 1840-35-HG	1887435	18GHz ~ 40GHz	Oct. 13, 2016	Aug. 07, 2017 ~ Aug. 24, 2017	Oct. 12, 2017	Radiation (03CH13-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 11, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Aug. 11, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Aug. 11, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Aug. 11, 2017	Dec. 05, 2017	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.7**

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))	**5.4**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**

Appendix A. Conducted Test Results

<PTP>

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Derek Hsu / Kai Liao	Temperature:	21~25	°C
Test Date:	2017/08/05 ~ 2017/09/05	Relative Humidity:	51~54	%

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		
VHT10	VHT0	2	32	5160	10.45	10.25	15.96	14.73	-		20.11			
VHT10	VHT0	2	40	5200	10.08	10.28	14.95	15.24	-		20.03			
VHT10	VHT0	2	49	5245	10.38	10.43	14.96	14.72	-		20.16			
VHT20	VHT0	2	33	5165	18.75	18.85	25.80	25.33	-		22.73			
VHT20	VHT0	2	40	5200	18.80	18.90	25.46	26.24	-		22.74			
VHT20	VHT0	2	48	5240	18.85	18.90	25.17	25.76	-		22.75			
VHT30	VHT0	2	34	5170	28.05	28.05	38.79	39.67	-		23.01			
VHT30	VHT0	2	40	5200	27.83	28.03	40.14	40.25	-		23.01			
VHT30	VHT0	2	47	5235	28.05	27.83	40.50	39.52	-		23.01			
VHT40	VHT0	2	35	5175	37.00	37.00	49.08	48.00	-		23.01			
VHT40	VHT0	2	40	5200	36.90	37.00	49.20	48.72	-		23.01			
VHT40	VHT0	2	46	5230	37.00	37.00	48.57	49.81	-		23.01			
VHT50	VHT0	2	36	5180	45.13	45.13	58.35	61.61	-		23.01			
VHT50	VHT0	2	40	5200	45.00	45.25	58.37	57.30	-		23.01			
VHT50	VHT0	2	45	5225	45.00	45.13	59.95	59.10	-		23.01			
VHT60	VHT0	2	37	5185	55.05	55.65	72.36	74.01	-		23.01			
VHT60	VHT0	2	40	5200	56.85	55.95	73.98	70.92	-		23.01			
VHT60	VHT0	2	44	5220	55.35	55.65	72.50	71.74	-		23.01			
VHT80	VHT0	2	38	5190	76.40	76.60	111.63	103.44	-		23.01			
VHT80	VHT0	2	40	5200	76.00	76.00	93.60	100.36	-		23.01			
VHT80	VHT0	2	42	5210	77.40	77.00	91.92	96.96	-		23.01			

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TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
VHT10	VHT0	2	32	5160	0.13	0.13	-2.09	-1.61	1.17	30.00		17.00			Pass
VHT10	VHT0	2	40	5220	0.13	0.13	16.87	15.74	19.36	30.00		17.00			Pass
VHT10	VHT0	2	49	5245	0.13	0.13	10.96	11.44	14.22	30.00		17.00			Pass
VHT20	VHT0	2	33	5165	0.20	0.20	-8.14	-7.59	-4.85	30.00		17.00			Pass
VHT20	VHT0	2	40	5200	0.20	0.20	20.65	18.62	22.76	30.00		17.00			Pass
VHT20	VHT0	2	48	5240	0.20	0.20	10.73	11.42	14.10	30.00		17.00			Pass
VHT30	VHT0	2	34	5170	0.30	0.35	-12.78	-12.30	-9.52	30.00		17.00			Pass
VHT30	VHT0	2	40	5200	0.30	0.35	17.86	15.57	19.87	30.00		17.00			Pass
VHT30	VHT0	2	47	5235	0.30	0.35	11.05	11.70	14.40	30.00		17.00			Pass
VHT40	VHT0	2	35	5175	0.39	0.46	-10.97	-10.66	-7.80	30.00		17.00			Pass
VHT40	VHT0	2	40	5200	0.39	0.46	11.32	10.46	13.92	30.00		17.00			Pass
VHT40	VHT0	2	46	5235	0.39	0.46	11.44	11.68	14.57	30.00		17.00			Pass
VHT50	VHT0	2	36	5180	0.45	0.45	-10.71	-10.65	-7.67	30.00		17.00			Pass
VHT50	VHT0	2	40	5200	0.45	0.45	9.26	7.67	11.55	30.00		17.00			Pass
VHT50	VHT0	2	45	5225	0.45	0.45	11.31	11.77	14.55	30.00		17.00			Pass
VHT60	VHT0	2	37	5185	0.51	0.59	-10.69	-10.27	-7.47	30.00		17.00			Pass
VHT60	VHT0	2	40	5200	0.51	0.59	2.79	0.82	4.92	30.00		17.00			Pass
VHT60	VHT0	2	44	5220	0.51	0.59	11.59	12.09	14.85	30.00		17.00			Pass
VHT80	VHT0	2	38	5190	0.45	0.45	-16.12	-16.01	-13.05	30.00		17.00			Pass
VHT80	VHT0	2	40	5200	0.45	0.45	-8.24	-10.39	-6.17	30.00		17.00			Pass
VHT80	VHT0	2	42	5210	0.51	0.59	0.11	0.54	3.34	30.00		17.00			Pass

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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	
VHT10	VHT0	2	32	5160	0.13	0.13			-7.62	17.00		20.01		Pass
VHT10	VHT0	2	40	5220	0.13	0.13			9.03	17.00		20.01		Pass
VHT10	VHT0	2	49	5245	0.13	0.13			5.67	17.00		20.01		Pass
VHT20	VHT0	2	33	5165	0.20	0.20			-16.50	17.00		20.01		Pass
VHT20	VHT0	2	40	5200	0.20	0.20			9.66	17.00		20.01		Pass
VHT20	VHT0	2	48	5240	0.20	0.20			-0.14	17.00		20.01		Pass
VHT30	VHT0	2	34	5170	0.30	0.35			-22.89	17.00		20.01		Pass
VHT30	VHT0	2	40	5200	0.30	0.35			6.01	17.00		20.01		Pass
VHT30	VHT0	2	47	5235	0.30	0.35			-1.39	17.00		20.01		Pass
VHT40	VHT0	2	35	5175	0.39	0.46			-22.51	17.00		20.01		Pass
VHT40	VHT0	2	40	5200	0.39	0.46			-1.56	17.00		20.01		Pass
VHT40	VHT0	2	46	5235	0.39	0.46			-0.08	17.00		20.01		Pass
VHT50	VHT0	2	36	5180	0.45	0.45			-23.45	17.00		20.01		Pass
VHT50	VHT0	2	40	5200	0.45	0.45			-4.56	17.00		20.01		Pass
VHT50	VHT0	2	45	5225	0.45	0.45			-0.55	17.00		20.01		Pass
VHT60	VHT0	2	37	5185	0.51	0.59			-23.99	17.00		20.01		Pass
VHT60	VHT0	2	40	5200	0.51	0.59			-12.03	17.00		20.01		Pass
VHT60	VHT0	2	44	5220	0.51	0.59			-1.03	17.00		20.01		Pass
VHT80	VHT0	2	38	5190	0.76	0.76			-31.75	17.00		20.01		Pass
VHT80	VHT0	2	40	5200	0.76	0.76			-24.69	17.00		20.01		Pass
VHT80	VHT0	2	42	5210	0.76	0.76			-14.14	17.00		20.01		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
VHT10	VHT0	1	32	5160	5160.000	0.000	0.00	80	120	
VHT10	VHT0	1	32	5160	5160.025	0.025	4.84	-40	120	
VHT10	VHT0	1	32	5160	5160.025	0.025	4.84	20	132	
VHT10	VHT0	1	32	5160	5159.988	-0.012	-2.42	20	108	
VHT10	VHT0	1	32	5160	5160.000	0.000	0.00	20	120	

<PTMP>

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Derek Hsu / Kai Liao	Temperature:	21~25	°C
Test Date:	2017/08/05 ~ 2017/09/05	Relative Humidity:	51~54	%

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		
VHT10	VHT0	2	32	5160	10.45	10.25	15.96	14.73	-		20.11			
VHT10	VHT0	2	40	5200	10.45	14.64	10.43	14.64	-		20.19			
VHT10	VHT0	2	49	5245	10.50	10.33	14.58	15.30	-		20.14			
VHT20	VHT0	2	33	5165	18.75	18.85	25.80	25.33	-		22.73			
VHT20	VHT0	2	40	5200	18.95	18.85	26.28	25.84	-		22.75			
VHT20	VHT0	2	48	5240	18.85	18.90	25.17	25.76	-		22.75			
VHT30	VHT0	2	34	5170	28.05	28.05	38.79	39.67	-		23.01			
VHT30	VHT0	2	40	5200	27.68	27.90	37.78	41.58	-		23.01			
VHT30	VHT0	2	47	5235	28.05	27.83	40.50	39.52	-		23.01			
VHT40	VHT0	2	35	5175	37.00	37.00	49.08	48.00	-		23.01			
VHT40	VHT0	2	40	5200	36.90	37.00	49.20	48.72	-		23.01			
VHT40	VHT0	2	46	5235	37.00	37.00	48.57	49.81	-		23.01			
VHT50	VHT0	2	36	5180	45.13	45.13	58.35	61.61	-		23.01			
VHT50	VHT0	2	40	5200	45.00	45.25	58.37	57.30	-		23.01			
VHT50	VHT0	2	45	5225	45.00	45.13	59.95	59.10	-		23.01			
VHT60	VHT0	2	37	5185	55.05	55.65	72.36	74.01	-		23.01			
VHT60	VHT0	2	40	5200	56.85	55.95	73.98	70.92	-		23.01			
VHT60	VHT0	2	44	5220	55.35	55.65	72.50	71.74	-		23.01			
VHT80	VHT0	2	38	5190	76.40	76.60	111.63	103.44	-		23.01			
VHT80	VHT0	2	40	5200	76.00	76.00	93.60	100.36	-		23.01			
VHT80	VHT0	2	42	5210	77.40	77.00	91.92	96.96	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
VHT10	VHT0	2	32	5160	0.13	0.13	-2.09	-1.61	1.17	19.00		17.00			Pass
VHT10	VHT0	2	40	5200	0.13	0.13	7.85	8.08	10.98	19.00		17.00			Pass
VHT10	VHT0	2	49	5245	0.13	0.13	7.77	8.09	10.95	19.00		17.00			Pass
VHT20	VHT0	2	33	5165	0.20	0.20	-8.14	-7.59	-4.85	19.00		17.00			Pass
VHT20	VHT0	2	40	5200	0.20	0.20	7.98	7.96	10.98	19.00		17.00			Pass
VHT20	VHT0	2	48	5240	0.20	0.20	7.04	7.90	10.50	19.00		17.00			Pass
VHT30	VHT0	2	34	5170	0.30	0.35	-12.78	-12.30	-9.52	19.00		17.00			Pass
VHT30	VHT0	2	40	5200	0.30	0.35	7.30	7.69	10.51	19.00		17.00			Pass
VHT30	VHT0	2	47	5235	0.30	0.35	6.90	8.05	10.52	19.00		17.00			Pass
VHT40	VHT0	2	35	5175	0.39	0.46	-10.97	-10.66	-7.80	19.00		17.00			Pass
VHT40	VHT0	2	40	5200	0.39	0.46	7.77	8.11	10.95	19.00		17.00			Pass
VHT40	VHT0	2	46	5230	0.39	0.46	7.59	8.30	10.97	19.00		17.00			Pass
VHT50	VHT0	2	36	5180	0.45	0.45	-10.71	-10.65	-7.67	19.00		17.00			Pass
VHT50	VHT0	2	40	5200	0.45	0.45	7.87	8.08	10.98	19.00		17.00			Pass
VHT50	VHT0	2	45	5225	0.45	0.45	7.70	8.25	10.99	19.00		17.00			Pass
VHT60	VHT0	2	37	5185	0.51	0.59	-10.69	-10.27	-7.47	19.00		17.00			Pass
VHT60	VHT0	2	40	5200	0.51	0.59	2.79	0.82	4.92	19.00		17.00			Pass
VHT60	VHT0	2	44	5220	0.51	0.59	7.52	7.70	10.62	19.00		17.00			Pass
VHT80	VHT0	2	38	5190	0.45	0.45	-16.12	-16.01	-13.05	19.00		17.00			Pass
VHT80	VHT0	2	40	5200	0.45	0.45	-8.24	-10.39	-6.17	19.00		17.00			Pass
VHT80	VHT0	2	42	5210	0.51	0.59	0.11	0.54	3.34	19.00		17.00			Pass

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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		
VHT10	VHT0	2	32	5160	0.13	0.13			-7.62	2.99		20.01			Pass
VHT10	VHT0	2	40	5200	0.13	0.13			1.53	2.99		20.01			Pass
VHT10	VHT0	2	49	5245	0.13	0.13			2.82	2.99		20.01			Pass
VHT20	VHT0	2	33	5165	0.20	0.20			-16.50	2.99		20.01			Pass
VHT20	VHT0	2	40	5200	0.20	0.20			-1.26	2.99		20.01			Pass
VHT20	VHT0	2	48	5240	0.20	0.20			-2.04	2.99		20.01			Pass
VHT30	VHT0	2	34	5170	0.30	0.35			-22.89	2.99		20.01			Pass
VHT30	VHT0	2	40	5200	0.30	0.35			-3.79	2.99		20.01			Pass
VHT30	VHT0	2	47	5235	0.30	0.35			-3.58	2.99		20.01			Pass
VHT40	VHT0	2	35	5175	0.39	0.46			-22.51	2.99		20.01			Pass
VHT40	VHT0	2	40	5200	0.39	0.46			-4.44	2.99		20.01			Pass
VHT40	VHT0	2	46	5230	0.39	0.46			-3.97	2.99		20.01			Pass
VHT50	VHT0	2	36	5180	0.45	0.45			-23.45	2.99		20.01			Pass
VHT50	VHT0	2	40	5200	0.45	0.45			-5.23	2.99		20.01			Pass
VHT50	VHT0	2	45	5225	0.45	0.45			-4.81	2.99		20.01			Pass
VHT60	VHT0	2	37	5185	0.51	0.59			-23.99	2.99		20.01			Pass
VHT60	VHT0	2	40	5200	0.51	0.59			-12.03	2.99		20.01			Pass
VHT60	VHT0	2	44	5220	0.51	0.59			-6.23	2.99		20.01			Pass
VHT80	VHT0	2	38	5190	0.76	0.76			-31.75	2.99		20.01			Pass
VHT80	VHT0	2	40	5200	0.76	0.76			-24.69	2.99		20.01			Pass
VHT80	VHT0	2	42	5210	0.76	0.76			-14.14	2.99		20.01			Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
VHT10	VHT0	1	32	5160	5160.000	0.000	0.00	80	120	
VHT10	VHT0	1	32	5160	5160.025	0.025	4.84	-40	120	
VHT10	VHT0	1	32	5160	5160.025	0.025	4.84	20	132	
VHT10	VHT0	1	32	5160	5159.988	-0.012	-2.42	20	108	
VHT10	VHT0	1	32	5160	5160.000	0.000	0.00	20	120	

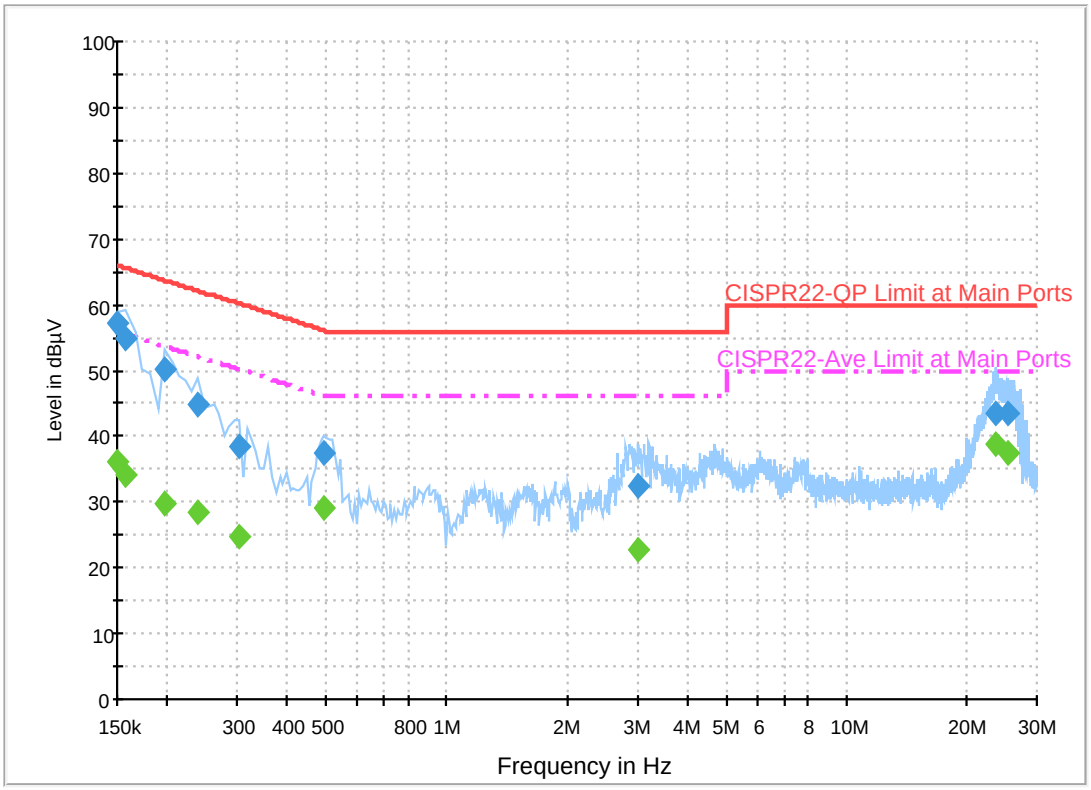
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Eric Jeng	**Temperature :**	26~28℃
		Relative Humidity :	52~55%

EUT Information

Report NO :	561115-03
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	57.2	Off	L1	19.6	8.8	66.0
0.158000	54.7	Off	L1	19.6	10.9	65.6
0.198000	50.1	Off	L1	19.6	13.6	63.7
0.238000	44.8	Off	L1	19.6	17.4	62.2
0.302000	38.4	Off	L1	19.6	21.8	60.2
0.494000	37.3	Off	L1	19.6	18.8	56.1
3.006000	32.6	Off	L1	19.6	23.4	56.0
23.550000	43.5	Off	L1	20.7	16.5	60.0
25.318000	43.6	Off	L1	20.8	16.4	60.0

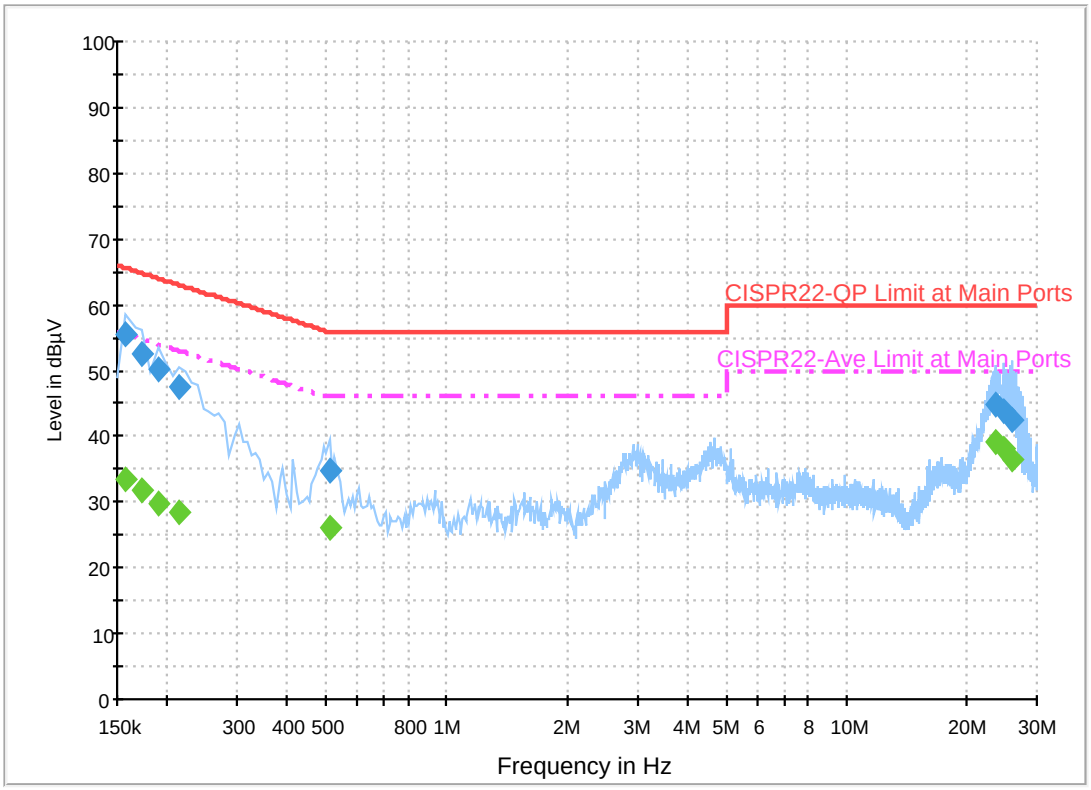
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.0	Off	L1	19.6	20.0	56.0
0.158000	34.1	Off	L1	19.6	21.5	55.6
0.198000	29.7	Off	L1	19.6	24.0	53.7
0.238000	28.3	Off	L1	19.6	23.9	52.2
0.302000	24.6	Off	L1	19.6	25.6	50.2
0.494000	29.0	Off	L1	19.6	17.1	46.1
3.006000	22.7	Off	L1	19.6	23.3	46.0
23.550000	38.8	Off	L1	20.7	11.2	50.0
25.318000	37.6	Off	L1	20.8	12.4	50.0

EUT Information

Report NO :	561115-03
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	55.4	Off	N	19.5	10.2	65.6
0.174000	52.6	Off	N	19.5	12.2	64.8
0.190000	50.2	Off	N	19.5	13.8	64.0
0.214000	47.6	Off	N	19.5	15.4	63.0
0.510000	34.8	Off	N	19.5	21.2	56.0
23.710000	44.9	Off	N	20.9	15.1	60.0
24.926000	43.7	Off	N	21.0	16.3	60.0
26.062000	42.6	Off	N	21.0	17.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	33.6	Off	N	19.5	22.0	55.6
0.174000	31.8	Off	N	19.5	23.0	54.8
0.190000	29.9	Off	N	19.5	24.1	54.0
0.214000	28.6	Off	N	19.5	24.4	53.0
0.510000	26.2	Off	N	19.5	19.8	46.0
23.710000	39.1	Off	N	20.9	10.9	50.0
24.926000	38.3	Off	N	21.0	11.7	50.0
26.062000	36.3	Off	N	21.0	13.7	50.0

Appendix C. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	Temperature :	25~26°C
		Relative Humidity :	50~52%

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT10 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5143.78	66.54	-7.46	74	57.77	31.98	7.35	30.56	186	360	P	H
		5150	52.44	-1.56	54	43.67	31.98	7.35	30.56	186	360	A	H
	*	5160	107.43			98.64	32	7.35	30.56	186	360	P	H
	*	5160	98.82			90.03	32	7.35	30.56	186	360	A	H
		5375.16	53.22	-20.78	74	44.1	32.24	7.47	30.59	186	360	P	H
		5385.8	43.33	-10.67	54	34.18	32.26	7.48	30.59	186	360	A	H
802.11ac													H
VHT 10													H
CH 32		5148.72	66.21	-7.79	74	57.44	31.98	7.35	30.56	215	0	P	V
5160MHz		5150	52.42	-1.58	54	43.65	31.98	7.35	30.56	215	0	A	V
	*	5160	107.6			98.81	32	7.35	30.56	215	0	P	V
	*	5160	98.85			90.06	32	7.35	30.56	215	0	A	V
		5355	52	-22	74	42.91	32.22	7.46	30.59	215	0	P	V
		5459.16	41.28	-12.72	54	32	32.34	7.54	30.6	215	0	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5141.44	71.45	-2.55	74	62.69	31.98	7.34	30.56	200	0	P	H
		5150	52.1	-1.9	54	43.33	31.98	7.35	30.56	200	0	A	H
	*	5200	125.77			116.92	32.04	7.38	30.57	200	0	P	H
	*	5200	117.61			108.76	32.04	7.38	30.57	200	0	A	H
		5506	62.27	-11.73	74	52.89	32.4	7.59	30.61	200	0	P	H
		5506	47.84	-6.16	54	38.46	32.4	7.59	30.61	200	0	A	H
802.11ac		5350.24	68.81	-5.19	74	59.72	32.22	7.46	30.59	200	0	P	H
VHT 10		5353.6	49.29	-4.71	54	40.2	32.22	7.46	30.59	200	0	A	H
CH 40		5141.18	71.15	-2.85	74	62.39	31.98	7.34	30.56	209	0	P	V
5200MHz		5149.24	51.88	-2.12	54	43.11	31.98	7.35	30.56	209	0	A	V
	*	5200	125.31			116.46	32.04	7.38	30.57	209	0	P	V
	*	5200	116.98			108.13	32.04	7.38	30.57	209	0	A	V
		5500	60.46	-13.54	74	51.09	32.4	7.58	30.61	209	0	P	V
		5500	45.08	-8.92	54	35.71	32.4	7.58	30.61	209	0	A	V
		5362.56	63.47	-10.53	74	54.35	32.24	7.47	30.59	209	0	P	V
		5357.52	45.27	-8.73	54	36.18	32.22	7.46	30.59	209	0	A	V
		5136.24	60.93	-13.07	74	52.19	31.96	7.34	30.56	197	360	P	H
		5149.76	44.11	-9.89	54	35.34	31.98	7.35	30.56	197	360	A	H
	*	5245	121.12			112.2	32.1	7.4	30.58	197	360	P	H
	*	5245	113.04			104.12	32.1	7.4	30.58	197	360	A	H
802.11ac		5353.04	65.04	-8.96	74	55.95	32.22	7.46	30.59	197	360	P	H
VHT 10		5353.32	46.46	-7.54	54	37.37	32.22	7.46	30.59	197	360	A	H
CH 49		5147.94	63.31	-10.69	74	54.54	31.98	7.35	30.56	206	0	P	V
5245MHz		5149.5	45.56	-8.44	54	36.79	31.98	7.35	30.56	206	0	A	V
	*	5245	121.31			112.39	32.1	7.4	30.58	206	0	P	V
	*	5245	113.06			104.14	32.1	7.4	30.58	206	0	A	V
		5350	61.41	-12.59	74	52.32	32.22	7.46	30.59	206	0	P	V
		5368.72	44.03	-9.97	54	34.91	32.24	7.47	30.59	206	0	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 VHT10 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10320	45.85	-22.35	68.2	52.41	39.21	10.73	57.04	100	0	P	H
		15480	44.94	-29.06	74	49.25	38.47	12.96	56.5	100	0	P	H
802.11ac													H
VHT 10													H
CH 32		10320	45.98	-22.22	68.2	52.54	39.21	10.73	57.04	100	0	P	V
5160MHz		15480	44.18	-29.82	74	48.49	38.47	12.96	56.5	100	0	P	V
													V
													V
		10400	49.76	-18.44	68.2	56.12	39.34	10.78	57.02	100	0	P	H
		15600	46.81	-27.19	74	51.34	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT 10		10400	47.87	-20.33	68.2	54.23	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.64	-28.36	74	50.17	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10490	47.59	-20.61	68.2	53.75	39.47	10.83	57	100	0	P	H
		15735	45.25	-28.75	74	49.99	37.77	13.11	56.36	100	0	P	H
													H
802.11ac													H
VHT 10		10490	46.67	-21.53	68.2	52.83	39.47	10.83	57	100	0	P	V
CH 49		15735	46.14	-27.86	74	50.88	37.77	13.11	56.36	100	0	P	V
5200MHz													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.98	62.52	-11.48	74	53.75	31.98	7.35	30.56	203	360	P	H
		5150	53.4	-0.6	54	44.63	31.98	7.35	30.56	203	360	A	H
	*	5165	97.86			89.06	32	7.36	30.56	203	360	P	H
	*	5165	89.83			81.03	32	7.36	30.56	203	360	A	H
802.11ac		5449.08	52.48	-21.52	74	43.2	32.34	7.54	30.6	203	360	P	H
VHT20		5414.64	42.75	-11.25	54	33.54	32.3	7.51	30.6	203	360	A	H
CH 33		5150	60.94	-13.06	74	52.17	31.98	7.35	30.56	210	0	P	V
5165MHz		5150	52.47	-1.53	54	43.7	31.98	7.35	30.56	210	0	A	V
	*	5165	98.17			89.37	32	7.36	30.56	210	0	P	V
	*	5165	90.73			81.93	32	7.36	30.56	210	0	A	V
		5401.2	50.45	-23.55	74	41.28	32.28	7.49	30.6	210	0	P	V
		5439.56	40.92	-13.08	54	31.68	32.32	7.52	30.6	210	0	A	V
		5146.38	68.11	-5.89	74	59.34	31.98	7.35	30.56	217	0	P	H
		5147.68	48.55	-5.45	54	39.78	31.98	7.35	30.56	217	0	A	H
	*	5200	121.29			112.44	32.04	7.38	30.57	217	0	P	H
	*	5200	115.16			106.31	32.04	7.38	30.57	217	0	A	H
		5506	58.9	-15.1	74	49.52	32.4	7.59	30.61	205	0	P	H
		5506	49.38	-4.62	54	40	32.4	7.59	30.61	205	0	A	H
802.11ac		5354.72	62.97	-11.03	74	53.88	32.22	7.46	30.59	217	0	P	H
VHT20		5353.32	47.62	-6.38	54	38.53	32.22	7.46	30.59	217	0	A	H
CH 40		5143.26	67.12	-6.88	74	58.35	31.98	7.35	30.56	226	1	P	V
5200MHz		5149.24	48.91	-5.09	54	40.14	31.98	7.35	30.56	226	1	A	V
	*	5200	122.11			113.26	32.04	7.38	30.57	226	1	P	V
	*	5200	114.25			105.4	32.04	7.38	30.57	226	1	A	V
		5464	57.63	-16.37	74	48.34	32.36	7.54	30.61	211	1	P	V
		5464	47.24	-6.76	54	37.95	32.36	7.54	30.61	211	1	A	V
		5361.44	58.02	-15.98	74	48.9	32.24	7.47	30.59	226	1	P	V
		5355.28	44.5	-9.5	54	35.41	32.22	7.46	30.59	226	1	A	V

		5140.92	58.47	-15.53	74	49.71	31.98	7.34	30.56	207	360	P	H
		5149.24	43.46	-10.54	54	34.69	31.98	7.35	30.56	207	360	A	H
	*	5240	114.81			105.91	32.08	7.4	30.58	207	360	P	H
	*	5240	107.69			98.79	32.08	7.4	30.58	207	360	A	H
802.11ac		5369.28	59.87	-14.13	74	50.75	32.24	7.47	30.59	207	360	P	H
VHT20		5351.36	45.58	-8.42	54	36.49	32.22	7.46	30.59	207	360	A	H
CH 48		5142.22	59.58	-14.42	74	50.82	31.98	7.34	30.56	204	0	P	V
5240MHz		5149.24	44.64	-9.36	54	35.87	31.98	7.35	30.56	204	0	A	V
	*	5240	117.92			109.02	32.08	7.4	30.58	204	0	P	V
	*	5240	110.1			101.2	32.08	7.4	30.58	204	0	A	V
		5350.24	57.86	-16.14	74	48.77	32.22	7.46	30.59	204	0	P	V
		5356.4	43.55	-10.45	54	34.46	32.22	7.46	30.59	204	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10330	45.98	-22.22	68.2	52.51	39.23	10.73	57.03	100	0	P	H
		15495	44.89	-29.11	74	49.25	38.4	12.98	56.5	100	0	P	H
802.11ac													H
VHT20													H
CH 33		10330	46.15	-22.05	68.2	52.68	39.23	10.73	57.03	100	0	P	V
5165MHz		15495	44.75	-29.25	74	49.11	38.4	12.98	56.5	100	0	P	V
													V
													V
		10400	46.98	-21.22	68.2	53.34	39.34	10.78	57.02	100	0	P	H
		15600	46.1	-27.9	74	50.63	38.13	13.03	56.44	100	0	P	H
802.11ac													H
VHT20													H
CH 40		10400	47.23	-20.97	68.2	53.59	39.34	10.78	57.02	100	0	P	V
5200MHz		15600	45.78	-28.22	74	50.31	38.13	13.03	56.44	100	0	P	V
													V
													V
		10480	46.7	-21.5	68.2	52.86	39.47	10.83	57	100	0	P	H
		15720	46	-28	74	50.71	37.82	13.1	56.37	100	0	P	H
802.11ac													H
VHT20													H
CH 48		10480	46.82	-21.38	68.2	52.98	39.47	10.83	57	100	0	P	V
5240MHz		15720	46.74	-27.26	74	51.45	37.82	13.1	56.37	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ac VHT30 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5150	60.64	-13.36	74	51.87	31.98	7.35	30.56	205	360	P	H
		5150	52.78	-1.22	54	44.01	31.98	7.35	30.56	205	360	A	H
	*	5170	90.37			81.57	32	7.36	30.56	205	360	P	H
	*	5170	83.58			74.78	32	7.36	30.56	205	360	A	H
802.11ac		5454.68	52.16	-21.84	74	42.88	32.34	7.54	30.6	205	360	P	H
VHT30		5456.36	43.43	-10.57	54	34.15	32.34	7.54	30.6	205	360	A	H
CH 34		5150	59.52	-14.48	74	50.75	31.98	7.35	30.56	225	0	P	V
5170MHz		5150	52.76	-1.24	54	43.99	31.98	7.35	30.56	225	0	A	V
	*	5170	90.67			81.87	32	7.36	30.56	225	0	P	V
	*	5170	83.94			75.14	32	7.36	30.56	225	0	A	V
		5437.32	50.4	-23.6	74	41.16	32.32	7.52	30.6	225	0	P	V
		5361.72	41.67	-12.33	54	32.55	32.24	7.47	30.59	225	0	A	V
		5143	68.7	-5.3	74	59.93	31.98	7.35	30.56	250	0	P	H
		5149.76	53.27	-0.73	54	44.5	31.98	7.35	30.56	250	0	A	H
	*	5200	120.16			111.31	32.04	7.38	30.57	250	0	P	H
	*	5200	113.11			104.26	32.04	7.38	30.57	250	0	A	H
		5464	61.02	-12.98	74	51.73	32.36	7.54	30.61	156	0	P	H
		5464	49.8	-4.2	54	40.51	32.36	7.54	30.61	156	0	A	H
802.11ac		5356.68	62.82	-11.18	74	53.73	32.22	7.46	30.59	250	0	P	H
VHT30		5350.8	49.51	-4.49	54	40.42	32.22	7.46	30.59	250	0	A	H
CH 40		5147.68	69.96	-4.04	74	61.19	31.98	7.35	30.56	226	0	P	V
5200MHz		5150	53.02	-0.98	54	44.25	31.98	7.35	30.56	226	0	A	V
	*	5200	119.41			110.56	32.04	7.38	30.57	226	0	P	V
	*	5200	112.66			103.81	32.04	7.38	30.57	226	0	A	V
		5470	57.81	-16.19	74	48.5	32.36	7.56	30.61	193	0	P	V
		5470	46.73	-7.27	54	37.42	32.36	7.56	30.61	193	0	A	V
		5367.6	60.06	-13.94	74	50.94	32.24	7.47	30.59	226	0	P	V
		5350.52	45.95	-8.05	54	36.86	32.22	7.46	30.59	226	0	A	V

		5132.34	56.65	-17.35	74	47.91	31.96	7.34	30.56	205	360	P	H
		5149.76	44.59	-9.41	54	35.82	31.98	7.35	30.56	205	360	A	H
	*	5235	114.12			105.21	32.08	7.4	30.57	205	360	P	H
	*	5235	107.18			98.27	32.08	7.4	30.57	205	360	A	H
802.11ac		5397	58.04	-15.96	74	48.87	32.28	7.49	30.6	205	360	P	H
VHT30		5351.08	46.02	-7.98	54	36.93	32.22	7.46	30.59	205	360	A	H
CH 47		5141.7	58.62	-15.38	74	49.86	31.98	7.34	30.56	194	360	P	V
5235MHz		5148.46	45.78	-8.22	54	37.01	31.98	7.35	30.56	194	360	A	V
	*	5235	115.61			106.7	32.08	7.4	30.57	194	360	P	V
	*	5235	108.29			99.38	32.08	7.4	30.57	194	360	A	V
		5351.92	57.01	-16.99	74	47.92	32.22	7.46	30.59	194	360	P	V
		5357.24	44.37	-9.63	54	35.28	32.22	7.46	30.59	194	360	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 VHT30 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10470	47.23	-20.97	68.2	53.43	39.45	10.82	57.01	100	0	P	H
		15705	46.84	-27.16	74	51.53	37.86	13.09	56.38	100	0	P	H
802.11ac													H
VHT30													H
CH 34		10470	47.46	-20.74	68.2	53.66	39.45	10.82	57.01	100	0	P	V
5170MHz		15705	45.35	-28.65	74	50.04	37.86	13.09	56.38	100	0	P	V
													V
													V
		10400	47.8	-20.4	68.2	54.16	39.34	10.78	57.02	100	0	P	H
		15600	45.62	-28.38	74	50.15	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT30		10400	48.06	-20.14	68.2	54.42	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.36	-28.64	74	49.89	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10470	47.23	-20.97	68.2	53.43	39.45	10.82	57.01	100	0	P	H
		15705	46.84	-27.16	74	51.53	37.86	13.09	56.38	100	0	P	H
802.11ac													H
VHT30													H
CH 47		10470	47.46	-20.74	68.2	53.66	39.45	10.82	57.01	100	0	P	V
5235MHz		15705	45.35	-28.65	74	50.04	37.86	13.09	56.38	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.76	61.63	-12.37	74	52.86	31.98	7.35	30.56	190	0	P	H
		5149.76	53.14	-0.86	54	44.37	31.98	7.35	30.56	190	0	A	H
	*	5175	91.93			83.11	32.02	7.36	30.56	190	0	P	H
	*	5175	84.01			75.19	32.02	7.36	30.56	190	0	A	H
802.11ac		5392.8	51.93	-22.07	74	42.79	32.26	7.48	30.6	190	0	P	H
VHT40		5414.08	43.27	-10.73	54	34.06	32.3	7.51	30.6	190	0	A	H
CH 35		5150	63.01	-10.99	74	54.24	31.98	7.35	30.56	213	360	P	V
5175MHz		5150	52.41	-1.59	54	43.64	31.98	7.35	30.56	213	360	A	V
	*	5175	92.09			83.27	32.02	7.36	30.56	213	360	P	V
	*	5175	84.35			75.53	32.02	7.36	30.56	213	360	A	V
		5423.04	51.52	-22.48	74	42.31	32.3	7.51	30.6	213	360	P	V
		5372.64	42.01	-11.99	54	32.89	32.24	7.47	30.59	213	360	A	V
		5146.12	64.86	-9.14	74	56.09	31.98	7.35	30.56	212	0	P	H
		5150	52.21	-1.79	54	43.44	31.98	7.35	30.56	212	0	A	H
	*	5200	113.98			105.13	32.04	7.38	30.57	212	0	P	H
	*	5200	106.12			97.27	32.04	7.38	30.57	212	0	A	H
802.11ac		5354.16	61.05	-12.95	74	51.96	32.22	7.46	30.59	212	0	P	H
VHT40		5365.64	45.68	-8.32	54	36.56	32.24	7.47	30.59	212	0	A	H
CH 40		5148.98	63.47	-10.53	74	54.7	31.98	7.35	30.56	211	0	P	V
5200MHz		5150	48.19	-5.81	54	39.42	31.98	7.35	30.56	211	0	A	V
	*	5200	114.05			105.2	32.04	7.38	30.57	211	0	P	V
	*	5200	106.23			97.38	32.04	7.38	30.57	211	0	A	V
		5370.96	54.23	-19.77	74	45.11	32.24	7.47	30.59	211	0	P	V
		5351.08	46.55	-7.45	54	37.46	32.22	7.46	30.59	211	0	A	V

		5145.08	60.1	-13.9	74	51.33	31.98	7.35	30.56	201	358	P	H
		5147.68	46.14	-7.86	54	37.37	31.98	7.35	30.56	201	358	A	H
	*	5230	115.06			106.16	32.08	7.39	30.57	201	358	P	H
	*	5230	107.29			98.39	32.08	7.39	30.57	201	358	A	H
802.11ac		5350.52	60.84	-13.16	74	51.75	32.22	7.46	30.59	201	358	P	H
VHT40		5351.36	47.51	-6.49	54	38.42	32.22	7.46	30.59	201	358	A	H
CH 46		5146.64	62.97	-11.03	74	54.2	31.98	7.35	30.56	195	360	P	V
5230MHz		5148.98	44.88	-9.12	54	36.11	31.98	7.35	30.56	195	360	A	V
	*	5230	115.61			106.71	32.08	7.39	30.57	195	360	P	V
	*	5230	107.68			98.78	32.08	7.39	30.57	195	360	A	V
		5382.44	51.9	-22.1	74	42.75	32.26	7.48	30.59	195	360	P	V
		5351.92	45.13	-8.87	54	36.04	32.22	7.46	30.59	195	360	A	V

Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10350	46.11	-22.09	68.2	52.6	39.26	10.74	57.03	100	0	P	H
		15525	46.28	-27.72	74	50.66	38.36	12.99	56.49	100	0	P	H
802.11ac													H
VHT40													H
CH 35		10350	46.69	-21.51	68.2	53.18	39.26	10.74	57.03	100	0	P	V
5175MHz		15525	46.07	-27.93	74	50.45	38.36	12.99	56.49	100	0	P	V
													V
													V
		10400	48.02	-20.18	68.2	54.38	39.34	10.78	57.02	100	0	P	H
		15600	45.92	-28.08	74	50.45	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT40		10400	46.63	-21.57	68.2	52.99	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.32	-28.68	74	49.85	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10460	47.13	-21.07	68.2	53.37	39.42	10.81	57.01	100	0	P	H
		15690	45.83	-28.17	74	50.49	37.91	13.08	56.39	100	0	P	H
802.11ac													H
VHT40													H
CH 46		10460	47.31	-20.89	68.2	53.55	39.42	10.81	57.01	100	0	P	V
5230MHz		15690	46.49	-27.51	74	51.15	37.91	13.08	56.39	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT50 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5148.46	58.81	-15.19	74	50.04	31.98	7.35	30.56	200	4	P	H
		5150	51.67	-2.33	54	42.9	31.98	7.35	30.56	200	4	A	H
	*	5180	91.34			82.51	32.02	7.37	30.56	200	4	P	H
	*	5180	84.02			75.19	32.02	7.37	30.56	200	4	A	H
802.11ac		5408.76	51.39	-22.61	74	42.22	32.28	7.49	30.6	200	4	P	H
VHT50		5390.28	42.69	-11.31	54	33.55	32.26	7.48	30.6	200	4	A	H
CH 36		5150	59.88	-14.12	74	51.11	31.98	7.35	30.56	208	360	P	V
5180MHz		5150	53.32	-0.68	54	44.55	31.98	7.35	30.56	208	360	A	V
	*	5180	91.92			83.09	32.02	7.37	30.56	208	360	P	V
	*	5180	84.65			75.82	32.02	7.37	30.56	208	360	A	V
		5381.88	50.87	-23.13	74	41.72	32.26	7.48	30.59	208	360	P	V
		5384.96	42.09	-11.91	54	32.94	32.26	7.48	30.59	208	360	A	V
		5139.88	62.31	-11.69	74	53.55	31.98	7.34	30.56	212	1	P	H
		5150	53.42	-0.58	54	44.65	31.98	7.35	30.56	212	1	A	H
	*	5200	110.07			101.22	32.04	7.38	30.57	212	1	P	H
	*	5200	103.53			94.68	32.04	7.38	30.57	212	1	A	H
802.11ac		5363.68	56.67	-17.33	74	47.55	32.24	7.47	30.59	212	1	P	H
VHT50		5396.72	48.15	-5.85	54	38.98	32.28	7.49	30.6	212	1	A	H
CH 40		5148.2	63.28	-10.72	74	54.51	31.98	7.35	30.56	204	0	P	V
5200MHz		5150	50.69	-3.31	54	41.92	31.98	7.35	30.56	204	0	A	V
	*	5200	109.11			100.26	32.04	7.38	30.57	204	0	P	V
	*	5200	102.31			93.46	32.04	7.38	30.57	204	0	A	V
		5351.92	55	-19	74	45.91	32.22	7.46	30.59	204	0	P	V
		5365.64	46.3	-7.7	54	37.18	32.24	7.47	30.59	204	0	A	V

		5147.68	61.52	-12.48	74	52.75	31.98	7.35	30.56	225	355	P	H
		5149.24	46.55	-7.45	54	37.78	31.98	7.35	30.56	225	355	A	H
	*	5225	114.47			105.57	32.08	7.39	30.57	225	355	P	H
	*	5225	106.75			97.85	32.08	7.39	30.57	225	355	A	H
802.11ac		5355.56	61.41	-12.59	74	52.32	32.22	7.46	30.59	225	355	P	H
VHT50		5351.08	46.77	-7.23	54	37.68	32.22	7.46	30.59	225	355	A	H
CH 45		5148.98	63.12	-10.88	74	54.35	31.98	7.35	30.56	204	360	P	V
5225MHz		5149.24	47.8	-6.2	54	39.03	31.98	7.35	30.56	204	360	A	V
	*	5225	113.5			104.6	32.08	7.39	30.57	204	360	P	V
	*	5225	105.16			96.26	32.08	7.39	30.57	204	360	A	V
		5381.88	58.55	-15.45	74	49.4	32.26	7.48	30.59	204	360	P	V
		5353.32	44.88	-9.12	54	35.79	32.22	7.46	30.59	204	360	A	V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT50 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	45.94	-22.26	68.2	52.39	39.29	10.75	57.03	100	0	P	H
		15540	45.88	-28.12	74	50.29	38.31	13	56.48	100	0	P	H
802.11ac													H
VHT50													H
CH 36		10360	46.19	-22.01	68.2	52.64	39.29	10.75	57.03	100	0	P	V
5180MHz		15540	46.68	-27.32	74	51.09	38.31	13	56.48	100	0	P	V
													V
													V
		10400	47.53	-20.67	68.2	53.89	39.34	10.78	57.02	100	0	P	H
		15600	46.06	-27.94	74	50.59	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT50		10400	47.17	-21.03	68.2	53.53	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.61	-28.39	74	50.14	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10450	47.34	-20.86	68.2	53.58	39.42	10.81	57.01	100	0	P	H
		15675	45.6	-28.4	74	50.22	37.95	13.08	56.4	100	0	P	H
802.11ac													H
VHT50													H
CH 45		10450	47.15	-21.05	68.2	53.39	39.42	10.81	57.01	100	0	P	V
5225MHz		15675	46.46	-27.54	74	51.08	37.95	13.08	56.4	100	0	P	V
													V
													V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT60 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.76	61.11	-12.89	74	52.34	31.98	7.35	30.56	260	354	P	H
		5150	52.8	-1.2	54	44.03	31.98	7.35	30.56	260	354	A	H
	*	5185	88.4			79.57	32.02	7.37	30.56	260	354	P	H
	*	5185	81.75			72.92	32.02	7.37	30.56	260	354	A	H
802.11ac		5404	52.19	-21.81	74	43.02	32.28	7.49	30.6	260	354	P	H
VHT60		5407.08	42.92	-11.08	54	33.75	32.28	7.49	30.6	260	354	A	H
CH 37		5148.98	58.29	-15.71	74	49.52	31.98	7.35	30.56	237	360	P	V
5185MHz		5149.5	52.58	-1.42	54	43.81	31.98	7.35	30.56	237	360	A	V
	*	5185	90.04			81.21	32.02	7.37	30.56	237	360	P	V
	*	5185	83.42			74.59	32.02	7.37	30.56	237	360	A	V
		5410.44	50.67	-23.33	74	41.5	32.28	7.49	30.6	237	360	P	V
		5459.44	41.92	-12.08	54	32.64	32.34	7.54	30.6	237	360	A	V
		5149.76	60.35	-13.65	74	51.58	31.98	7.35	30.56	208	2	P	H
		5150	53.21	-0.79	54	44.44	31.98	7.35	30.56	208	2	A	H
	*	5200	102.68			93.83	32.04	7.38	30.57	208	2	P	H
	*	5200	96			87.15	32.04	7.38	30.57	208	2	A	H
802.11ac		5369	57.18	-16.82	74	48.06	32.24	7.47	30.59	208	2	P	H
VHT60		5372.36	47.88	-6.12	54	38.76	32.24	7.47	30.59	208	2	A	H
CH 40		5148.72	59	-15	74	50.23	31.98	7.35	30.56	209	0	P	V
5200MHz		5150	50.5	-3.5	54	41.73	31.98	7.35	30.56	209	0	A	V
	*	5200	101.45			92.6	32.04	7.38	30.57	209	0	P	V
	*	5200	95.21			86.36	32.04	7.38	30.57	209	0	A	V
		5431.16	50.98	-23.02	74	41.74	32.32	7.52	30.6	209	0	P	V
		5352.48	42.62	-11.38	54	33.53	32.22	7.46	30.59	209	0	A	V

		5149.76	62.06	-11.94	74	53.29	31.98	7.35	30.56	232	357	P	H
		5150	53.32	-0.68	54	44.55	31.98	7.35	30.56	232	357	A	H
	*	5220	112.48			103.6	32.06	7.39	30.57	232	357	P	H
	*	5220	105.91			97.03	32.06	7.39	30.57	232	357	A	H
802.11ac		5388.32	58.57	-15.43	74	49.43	32.26	7.48	30.6	232	357	P	H
VHT60		5350.52	47.07	-6.93	54	37.98	32.22	7.46	30.59	232	357	A	H
CH 44		5145.08	62.14	-11.86	74	53.37	31.98	7.35	30.56	242	360	P	V
5220MHz		5149.76	53.66	-0.34	54	44.89	31.98	7.35	30.56	242	360	A	V
	*	5220	112.47			103.59	32.06	7.39	30.57	242	360	P	V
	*	5220	105.6			96.72	32.06	7.39	30.57	242	360	A	V
		5423.04	55.91	-18.09	74	46.7	32.3	7.51	30.6	242	360	P	V
		5358.36	44.79	-9.21	54	35.69	32.22	7.47	30.59	242	360	A	V
Remark	7. No other spurious found. 8. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT60 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10370	47.44	-20.76	68.2	53.89	39.29	10.75	57.03	100	0	P	H
		15555	47.17	-26.83	74	51.6	38.27	13.01	56.47	100	0	P	H
802.11ac													H
VHT60													H
CH 37		10370	45.77	-22.43	68.2	52.22	39.29	10.75	57.03	100	0	P	V
5185MHz		15555	47.27	-26.73	74	51.7	38.27	13.01	56.47	100	0	P	V
													V
													V
		10400	48.01	-20.19	68.2	54.37	39.34	10.78	57.02	100	0	P	H
		15600	48.43	-25.57	74	52.96	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT60		10400	47.6	-20.6	68.2	53.96	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.37	-28.63	74	49.9	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10440	47.13	-21.07	68.2	53.41	39.39	10.8	57.01	100	0	P	H
		15660	46.86	-27.14	74	51.45	38	13.07	56.41	100	0	P	H
802.11ac													H
VHT60													H
CH 44		10440	47.55	-20.65	68.2	53.83	39.39	10.8	57.01	100	0	P	V
5220MHz		15660	45.68	-28.32	74	50.27	38	13.07	56.41	100	0	P	V
													V
													V

Remark

7. No other spurious found.
8. All results are PASS against Peak and Average limit line.

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5150	59.25	-14.75	74	50.48	31.98	7.35	30.56	250	356	P	H
		5150	53.23	-0.77	54	44.46	31.98	7.35	30.56	250	356	A	H
	*	5190	83.27			74.45	32.02	7.37	30.57	250	356	P	H
	*	5190	76.09			67.27	32.02	7.37	30.57	250	356	A	H
802.11ac		5456.92	51.9	-22.1	74	42.62	32.34	7.54	30.6	250	356	P	H
VHT80		5390	45.3	-8.7	54	36.16	32.26	7.48	30.6	250	356	A	H
CH 38		5149.76	60.63	-13.37	74	51.86	31.98	7.35	30.56	274	360	P	V
5190MHz		5147.94	52.05	-1.95	54	43.28	31.98	7.35	30.56	274	360	A	V
	*	5190	83.74			74.92	32.02	7.37	30.57	274	360	P	V
	*	5190	77.06			68.24	32.02	7.37	30.57	274	360	A	V
		5454.68	50.8	-23.2	74	41.52	32.34	7.54	30.6	274	360	P	V
		5401.48	43.12	-10.88	54	33.95	32.28	7.49	30.6	274	360	A	V
		5149.24	59.2	-14.8	74	50.43	31.98	7.35	30.56	212	0	P	H
		5149.5	53.42	-0.58	54	44.65	31.98	7.35	30.56	212	0	A	H
	*	5200	90.88			82.03	32.04	7.38	30.57	212	0	P	H
	*	5200	84.53			75.68	32.04	7.38	30.57	212	0	A	H
802.11ac		5448.8	52.29	-21.71	74	43.01	32.34	7.54	30.6	212	0	P	H
VHT80		5371.8	44.54	-9.46	54	35.42	32.24	7.47	30.59	212	0	A	H
CH 40		5150	59.39	-14.61	74	50.62	31.98	7.35	30.56	234	0	P	V
5200MHz		5150	52.72	-1.28	54	43.95	31.98	7.35	30.56	234	0	A	V
	*	5200	89.6			80.75	32.04	7.38	30.57	234	0	P	V
	*	5200	83.57			74.72	32.04	7.38	30.57	234	0	A	V
		5427.8	50.46	-23.54	74	41.25	32.3	7.51	30.6	234	0	P	V
		5458.32	43.34	-10.66	54	34.06	32.34	7.54	30.6	234	0	A	V

		5150	57.68	-16.32	74	48.91	31.98	7.35	30.56	259	359	P	H
		5149.76	53.44	-0.56	54	44.67	31.98	7.35	30.56	259	359	A	H
	*	5210	100.04			91.17	32.06	7.38	30.57	259	359	P	H
	*	5210	93.24			84.37	32.06	7.38	30.57	259	359	A	H
802.11ac		5405.68	52.96	-21.04	74	43.79	32.28	7.49	30.6	259	359	P	H
VHT80		5376.28	45.88	-8.12	54	36.75	32.24	7.48	30.59	259	359	A	H
CH 42		5147.68	59.48	-14.52	74	50.71	31.98	7.35	30.56	262	360	P	V
5210MHz		5147.68	53.22	-0.78	54	44.45	31.98	7.35	30.56	262	360	A	V
	*	5210	101.65			92.78	32.06	7.38	30.57	262	360	P	V
	*	5210	94.53			85.66	32.06	7.38	30.57	262	360	A	V
		5410.16	52.44	-21.56	74	43.27	32.28	7.49	30.6	262	360	P	V
		5455.24	43.69	-10.31	54	34.41	32.34	7.54	30.6	262	360	A	V

Remark	9. No other spurious found. 10. All results are PASS against Peak and Average limit line.

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	46.25	-21.95	68.2	52.66	39.31	10.76	57.02	100	0	P	H
		15570	47.41	-26.59	74	51.88	38.22	13.02	56.46	100	0	P	H
802.11ac													H
VHT80													H
CH 38		10380	46.28	-21.92	68.2	52.69	39.31	10.76	57.02	100	0	P	V
5190MHz		15570	46.48	-27.52	74	50.95	38.22	13.02	56.46	100	0	P	V
													V
													V
		10400	47.46	-20.74	68.2	53.82	39.34	10.78	57.02	100	0	P	H
		15600	45.93	-28.07	74	50.46	38.13	13.03	56.44	100	0	P	H
													H
802.11ac													H
VHT80		10400	47.61	-20.59	68.2	53.97	39.34	10.78	57.02	100	0	P	V
CH 40		15600	45.5	-28.5	74	50.03	38.13	13.03	56.44	100	0	P	V
5200MHz													V
													V
		10420	47.15	-21.05	68.2	53.47	39.37	10.79	57.02	100	0	P	H
		15630	44.48	-29.52	74	49.06	38.04	13.05	56.42	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	47.39	-20.81	68.2	53.71	39.37	10.79	57.02	100	0	P	V
5210MHz		15630	45.06	-28.94	74	49.64	38.04	13.05	56.42	100	0	P	V
													V
													V
Remark	9. No other spurious found. 10. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

Emission below 1GHz

WIFI 802.11ac VHT60 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT60 LF		111.81	32.2	-11.3	43.5	48.94	14.37	1.09	32.29			P	H
		192	30.37	-13.13	43.5	49.63	11.52	1.42	32.27			P	H
		250.05	29.32	-16.68	46	44.69	15.16	1.59	32.2			P	H
		374.9	32.03	-13.97	46	44.62	17.58	1.89	32.15			P	H
		624.8	36.56	-9.44	46	43.22	22.98	2.45	32.2			P	H
		899.9	37.67	-8.33	46	39.66	26.47	2.94	31.51	100	0	P	H
													H
													H
													H
													H
													H
													H
		34.59	36.23	-3.77	40	49.52	18.48	0.59	32.34	100	0	P	V
		113.7	29.54	-13.96	43.5	46.44	14.21	1.09	32.29			P	V
		154.47	28.47	-15.03	43.5	45.93	13.5	1.27	32.28			P	V
		500.2	35	-11	46	44	20.92	2.2	32.2			P	V
		624.8	36.34	-9.66	46	43	22.98	2.45	32.2			P	V
		874.7	33.39	-12.61	46	35.86	26.14	2.9	31.63			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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

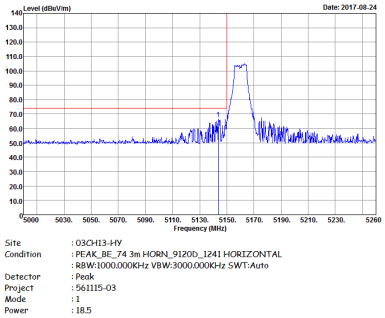
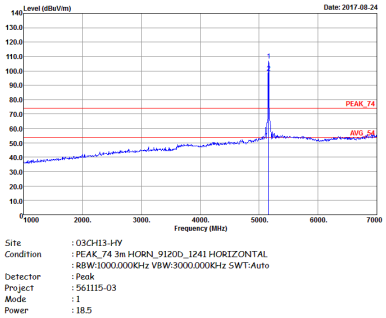
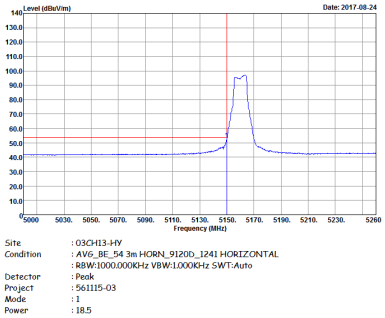
Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	**Temperature :**	25~26°C
		Relative Humidity :	50~52%

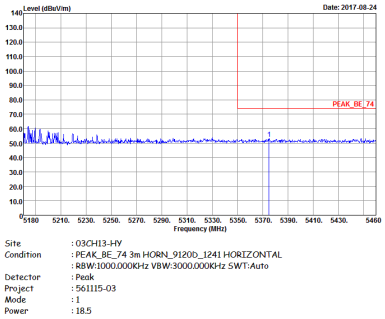
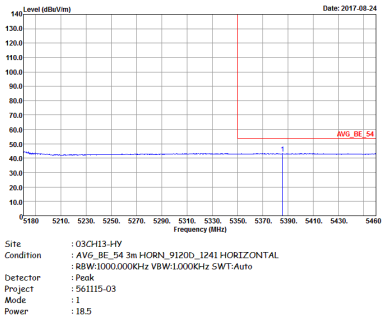
Note symbol

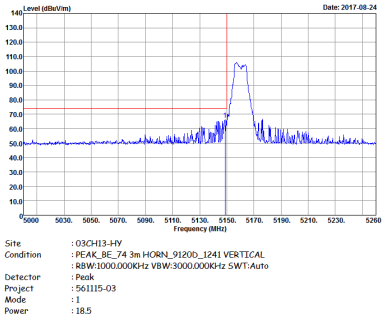
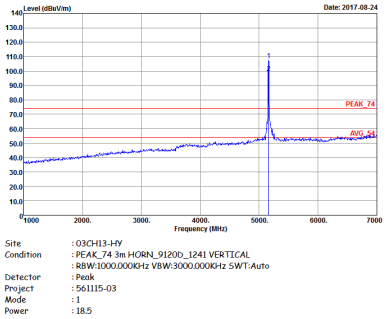
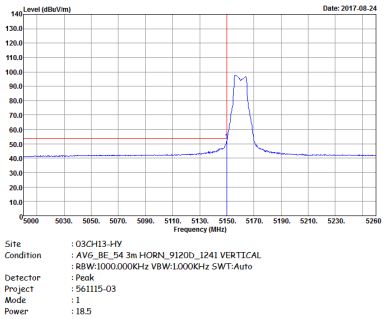
-L	**Low channel location**
-R	**High channel location**

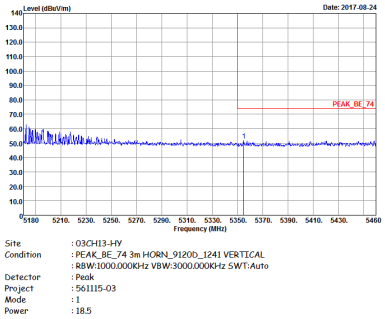
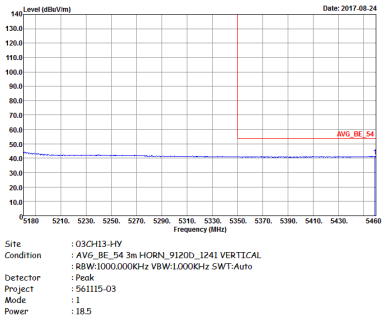
Band 1 - 5150~5250MHz

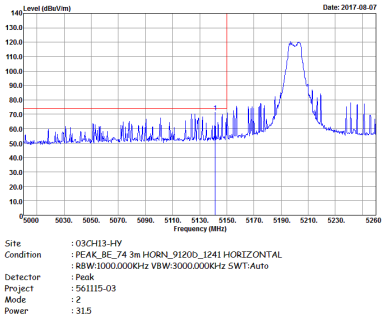
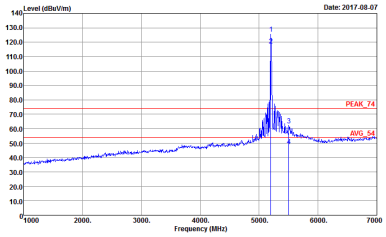
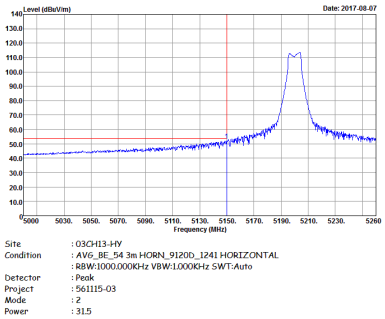
WIFI 802.11ac VHT10 (Band Edge @ 3m)

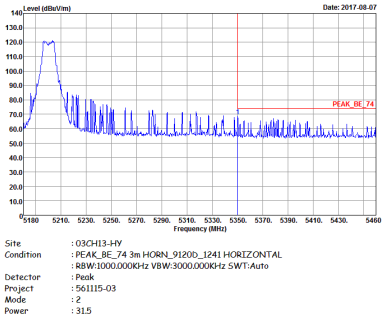
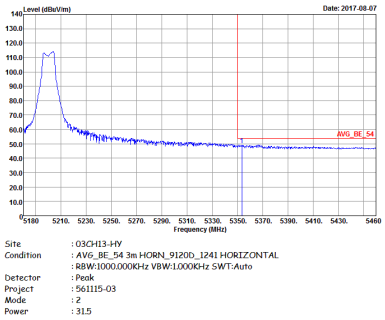
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH32 5160MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

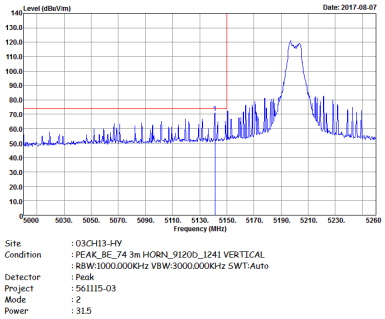
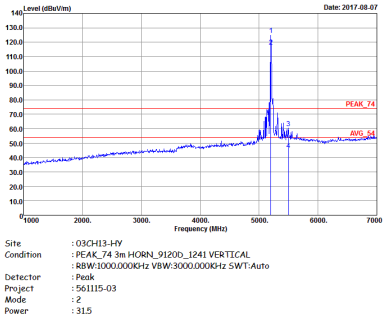
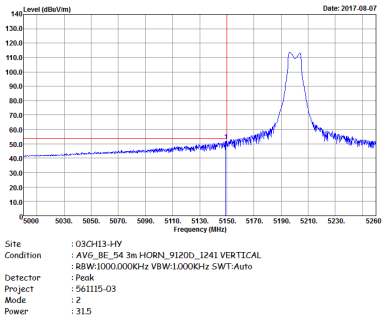
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH32 5160MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	Left blank

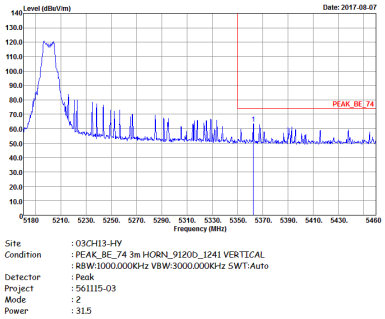
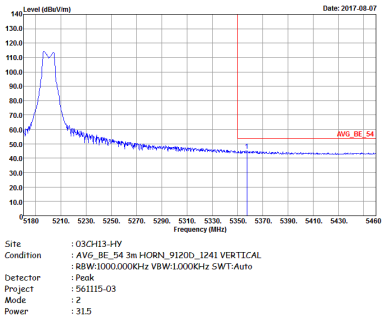
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH32 5160MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	Left blank

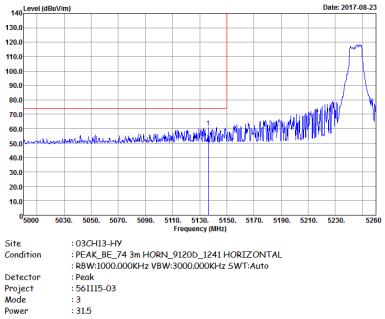
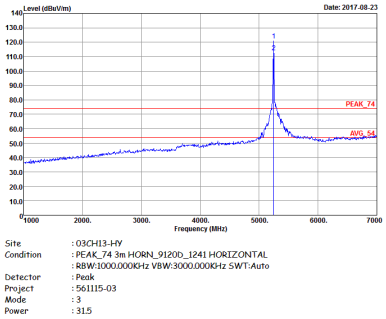
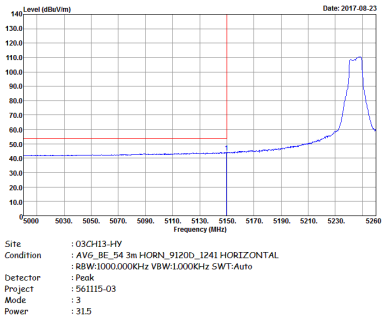
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH32 5160MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 1 Power : 18.5	Left blank

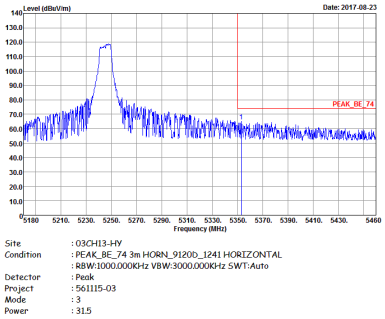
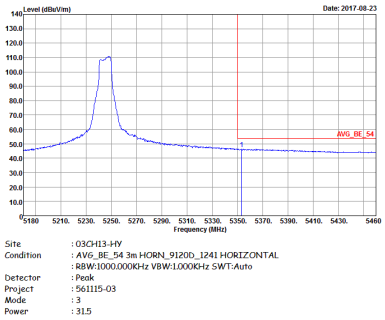
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	Left blank

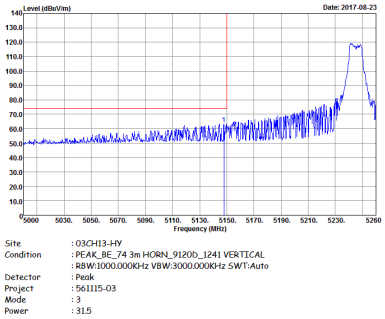
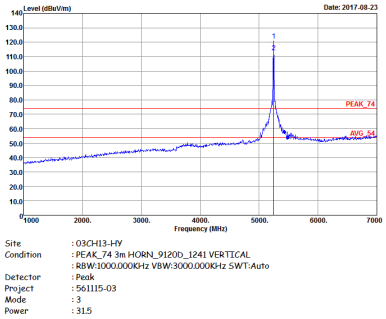
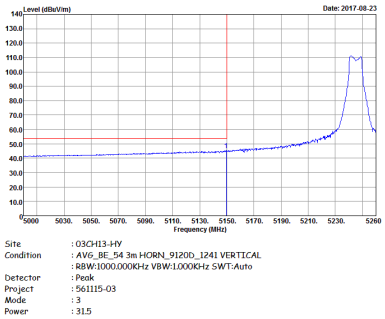
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	Left blank

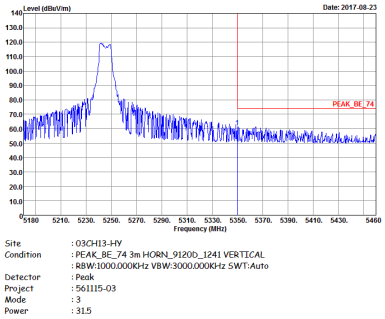
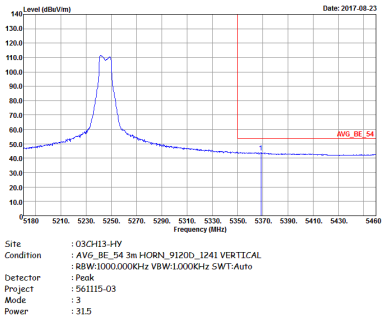
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 2 Power : 31.5	Left blank

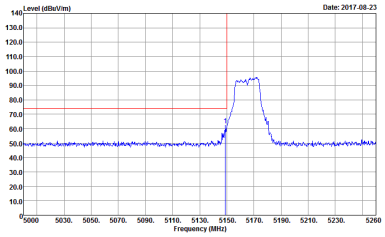
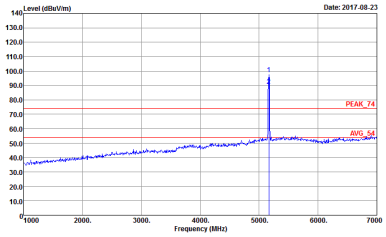
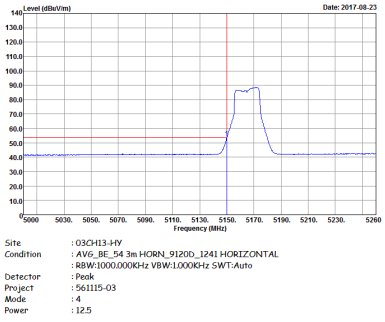
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH49 5245MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

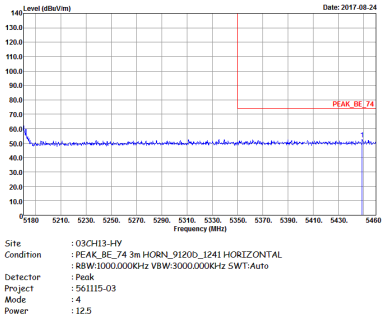
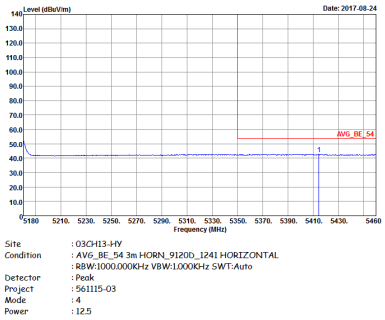
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH49 5245MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5	Left blank

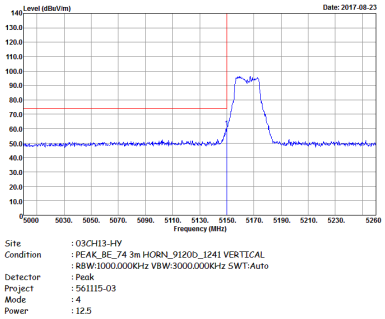
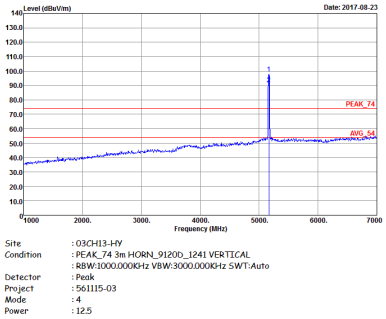
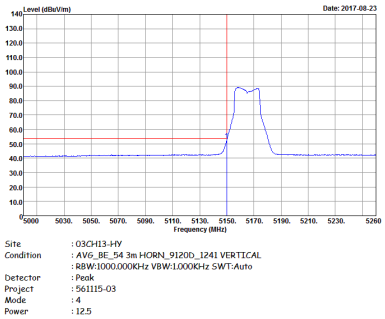
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH49 5245MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

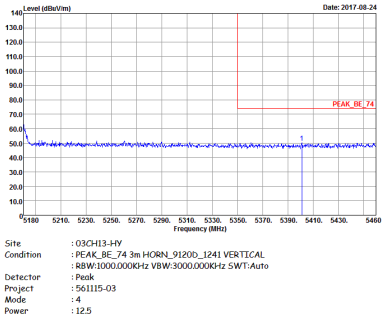
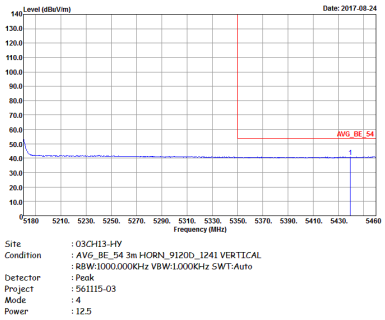
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT10 CH49 5245MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5	Left blank

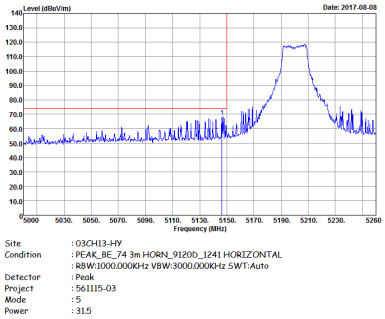
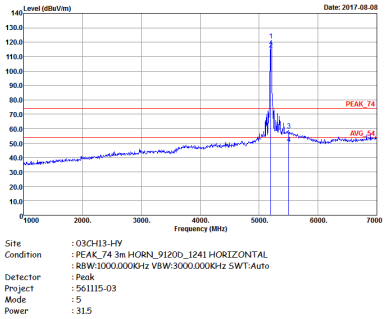
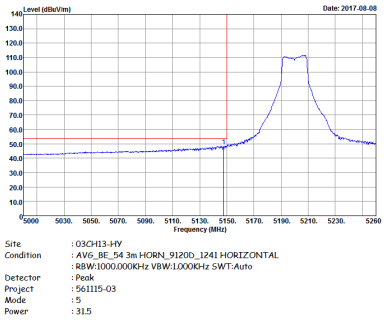
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

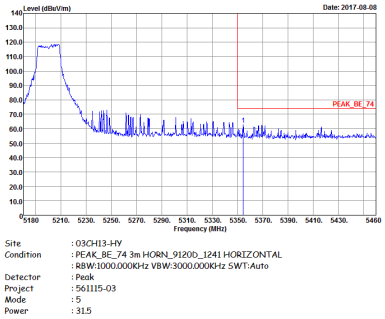
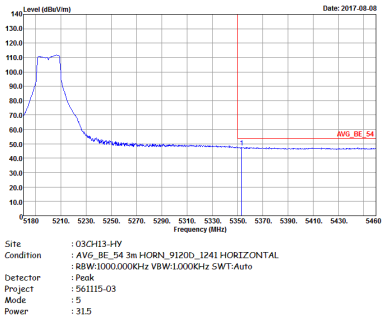
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH33 5165MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

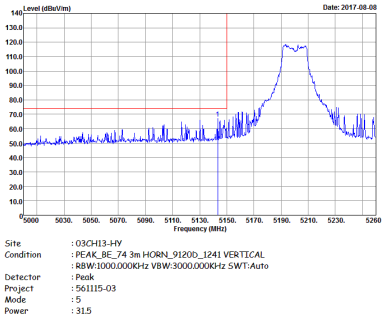
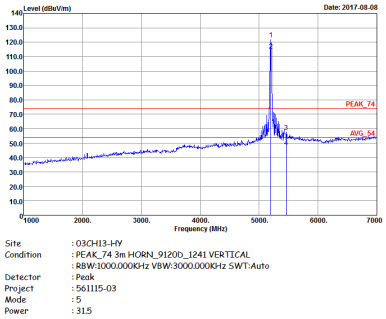
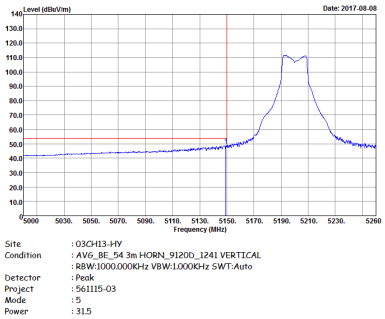
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH33 5165MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 4 Power : 12.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 4 Power : 12.5	Left blank

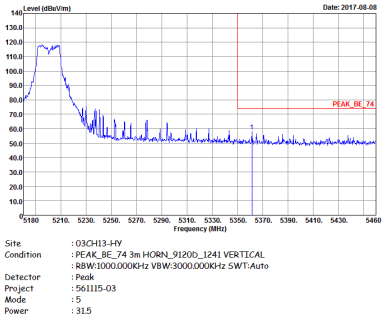
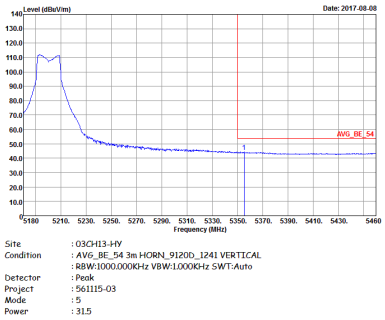
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH33 5165MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

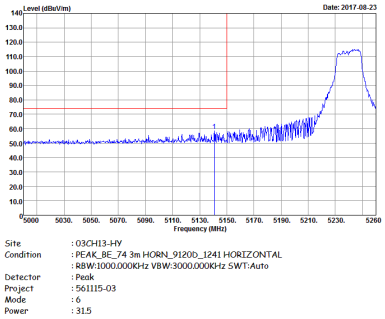
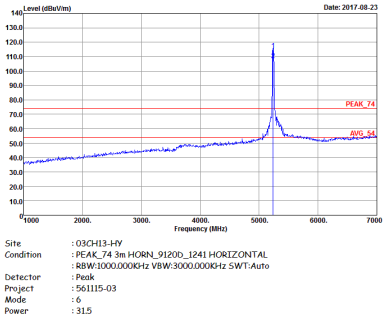
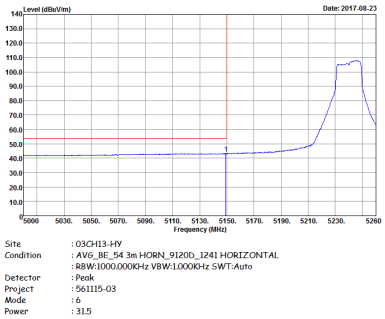
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH33 5165MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 4 Power : 12.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 4 Power : 12.5	Left blank

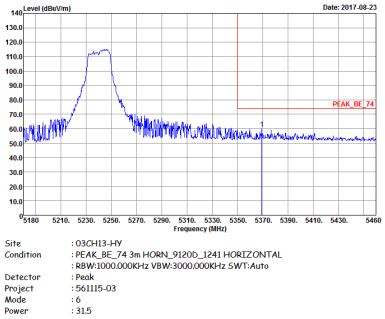
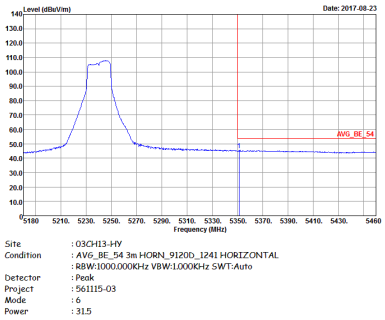
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	Left blank

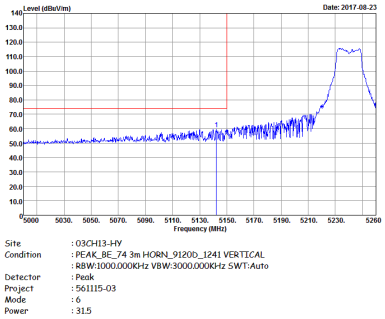
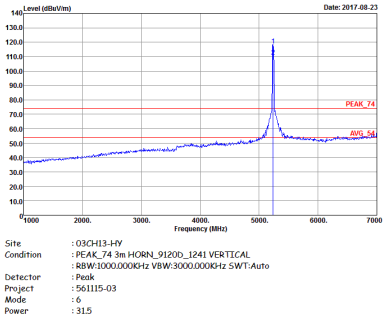
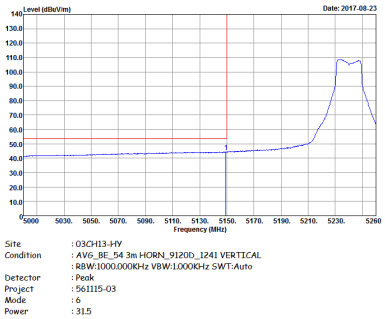
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	Left blank

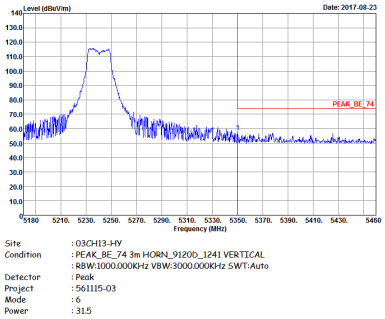
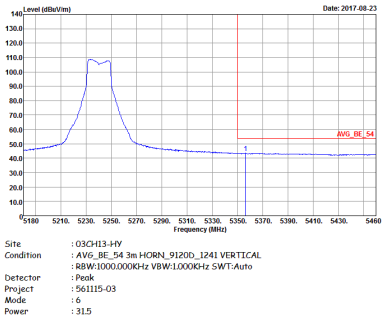
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 5 Power : 31.5	Left blank

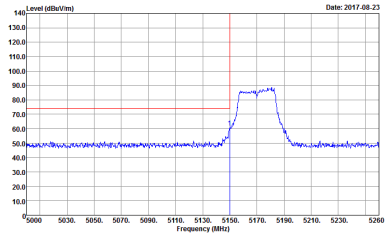
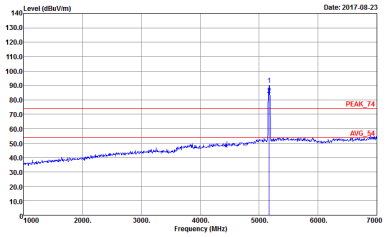
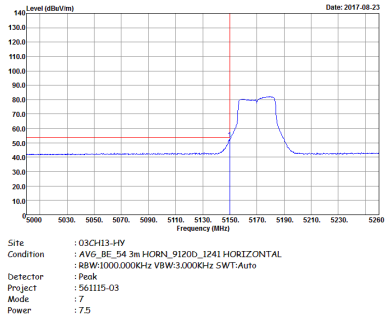
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	Left blank

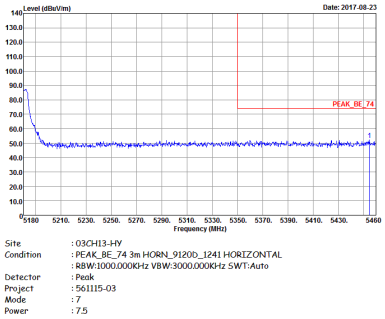
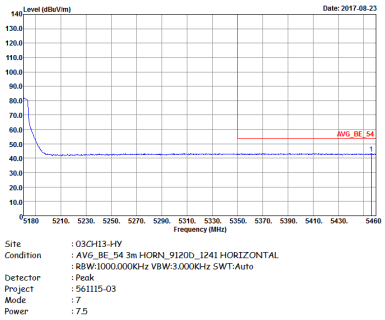
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	Left blank

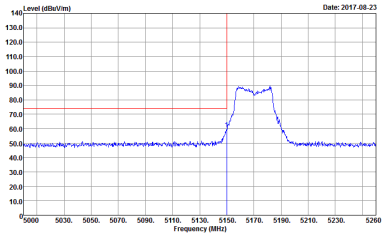
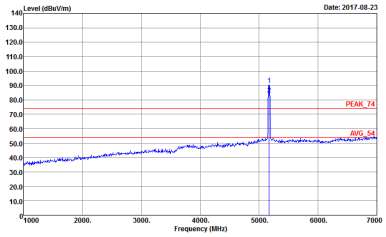
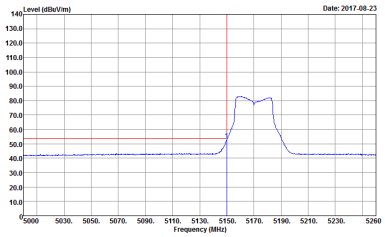
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

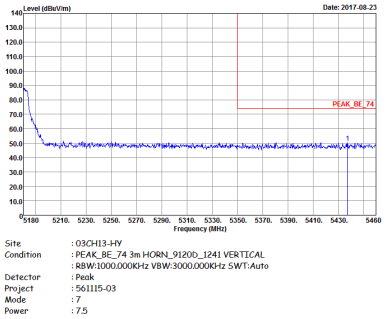
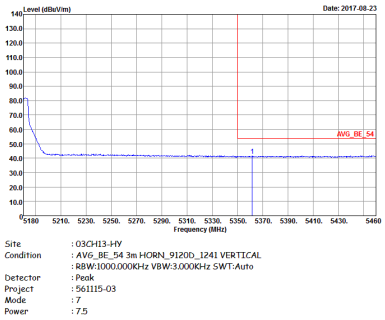
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	Left blank

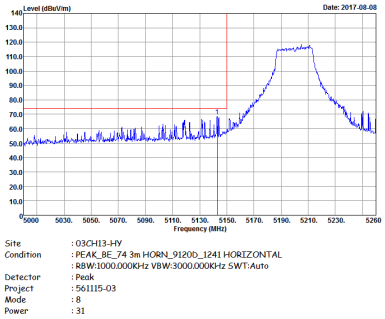
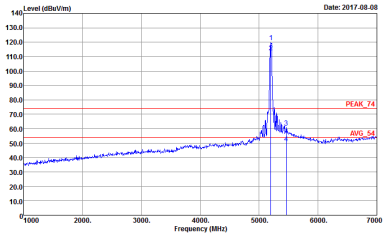
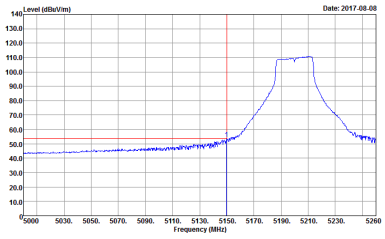
Band 1 5150~5250MHz
WIFI 802.11ac VHT30 (Band Edge @ 3m)

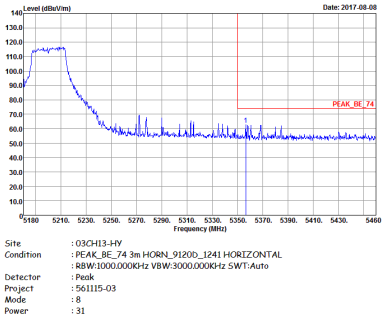
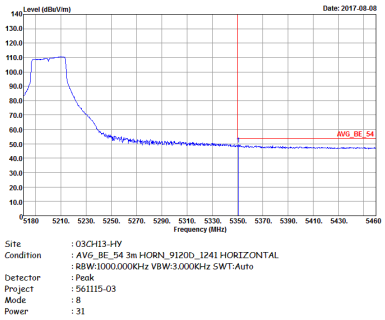
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH34 5170MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

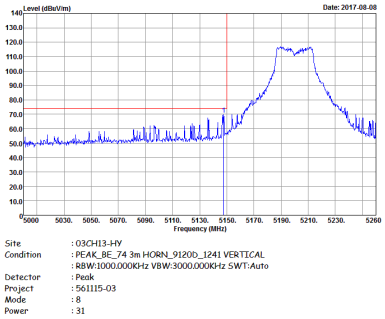
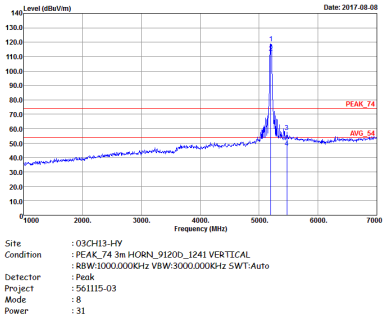
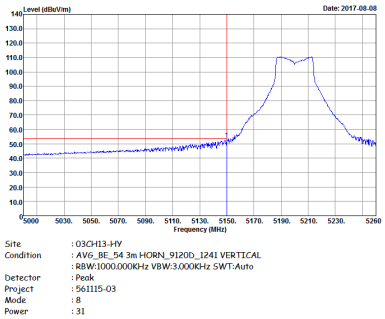
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH34 5170MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	Left blank

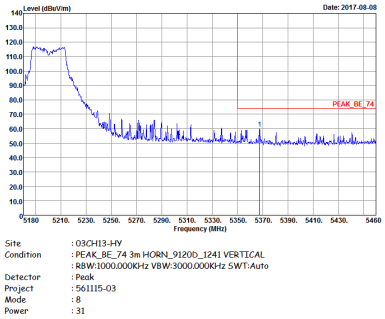
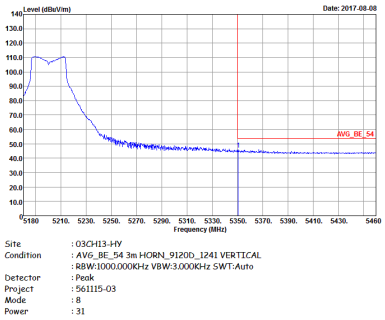
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH34 5170MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	Left blank

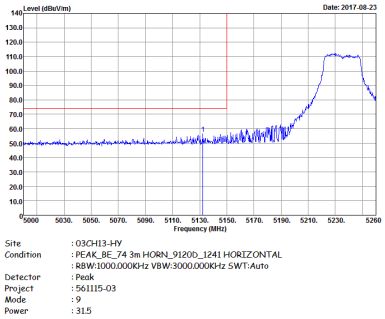
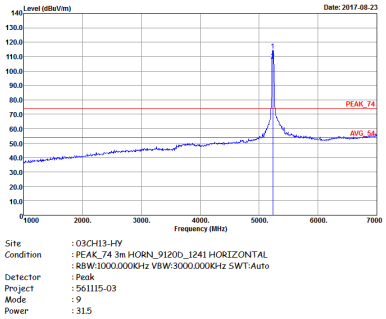
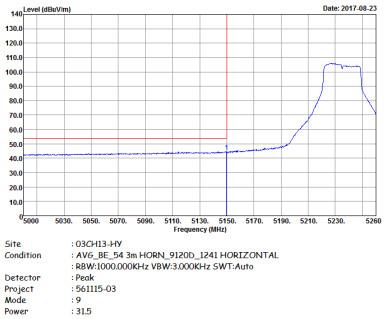
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH34 5170MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 7 Power : 7.5	Left blank

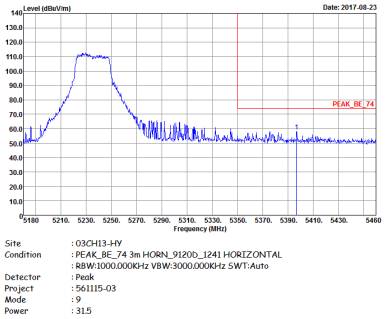
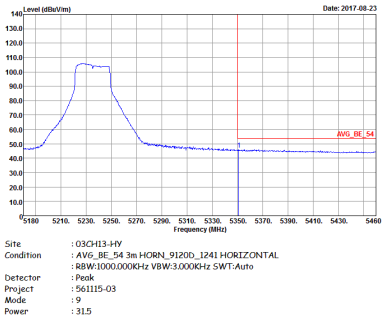
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	Left blank

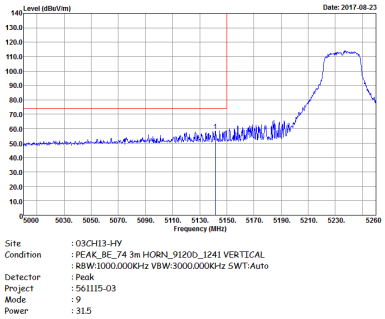
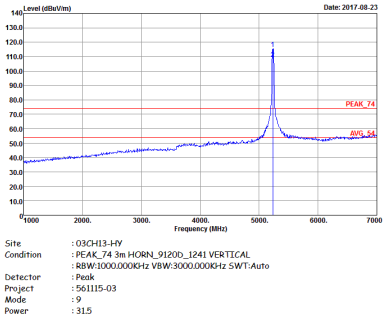
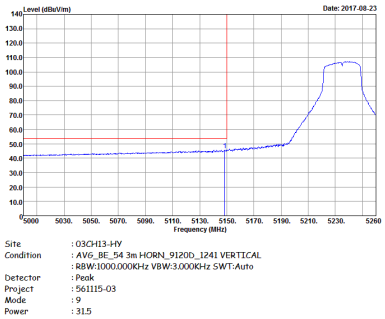
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	Left blank

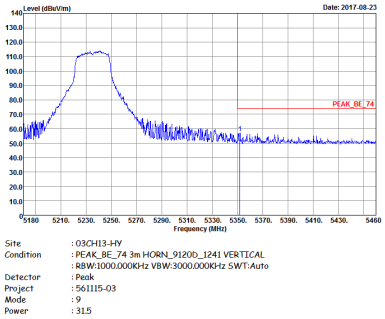
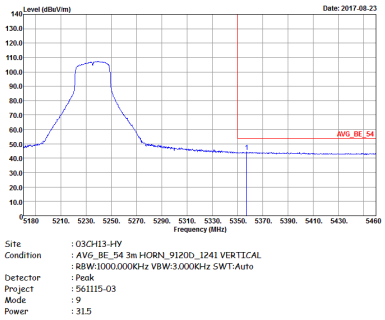
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 8 Power : 31	Left blank

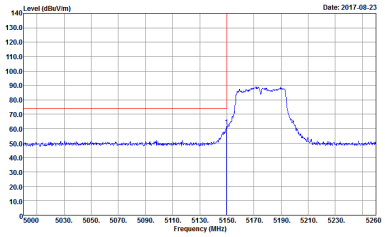
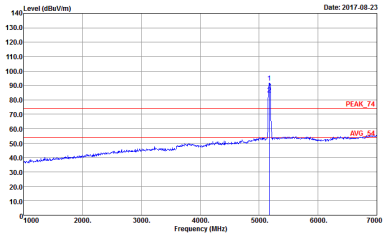
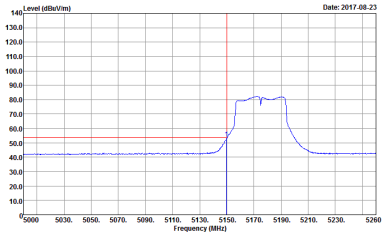
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH47 5235MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	Left blank

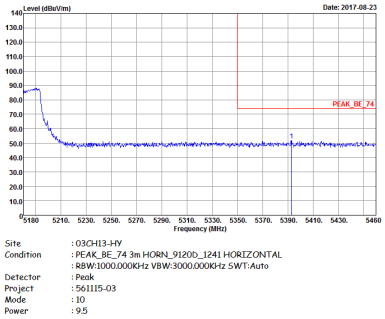
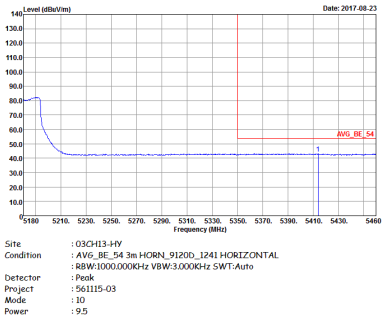
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH47 5235MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	Left blank

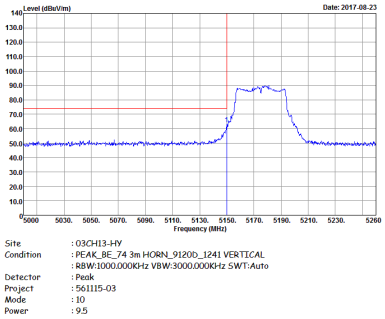
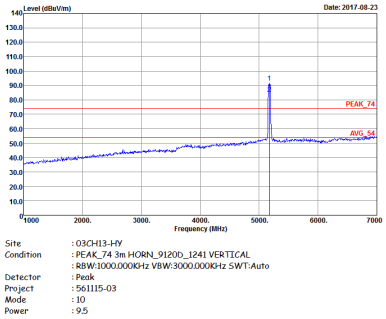
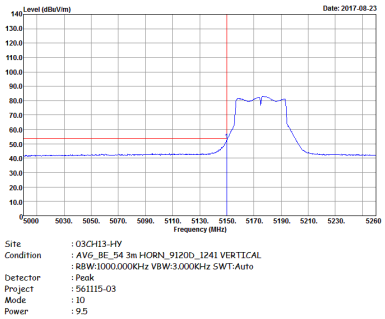
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH47 5235MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

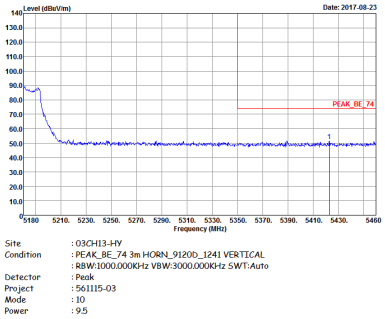
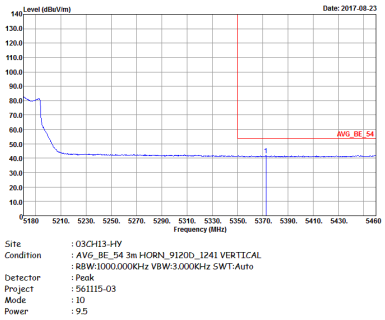
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT30 CH47 5235MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	Left blank

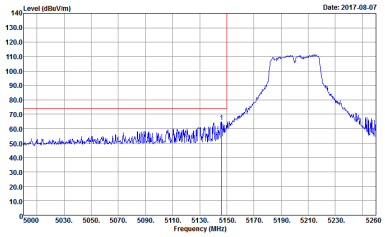
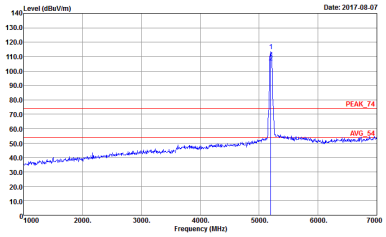
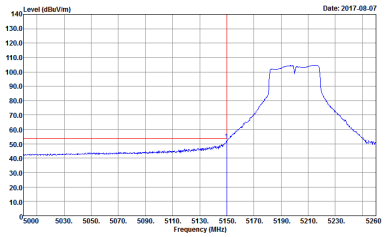
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

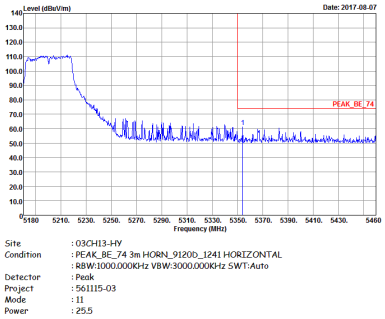
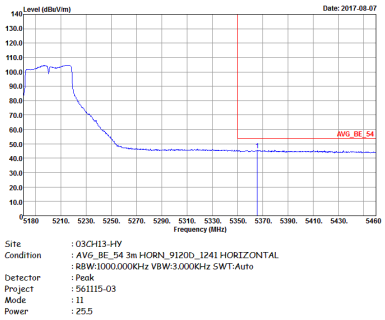
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH35 5175MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	Left blank

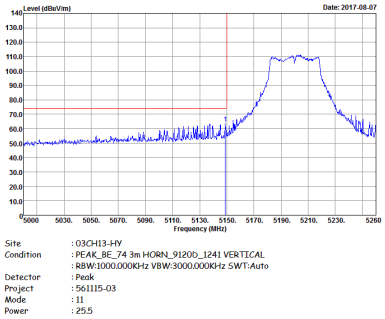
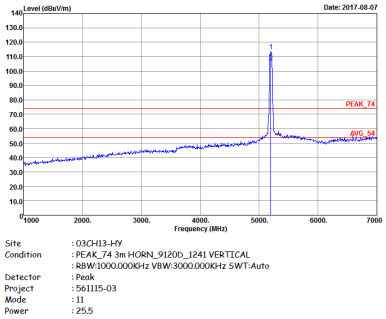
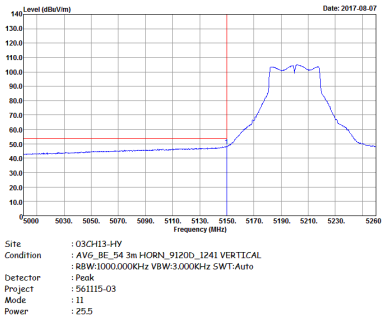
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH35 5175MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	Left blank

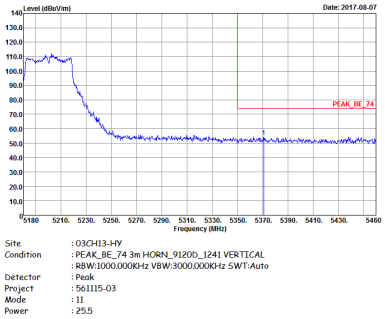
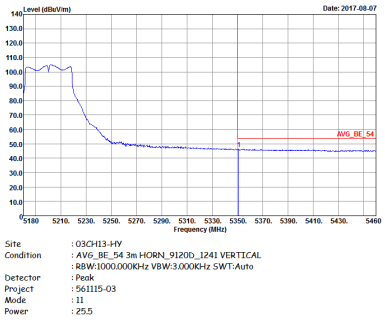
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH35 5175MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

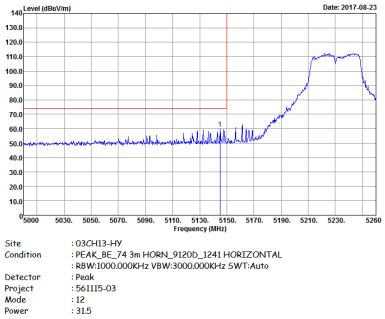
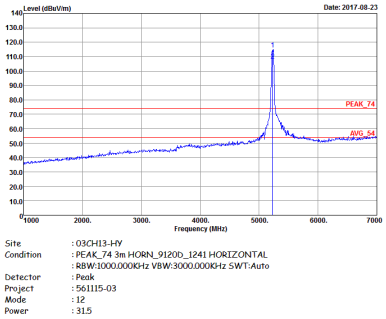
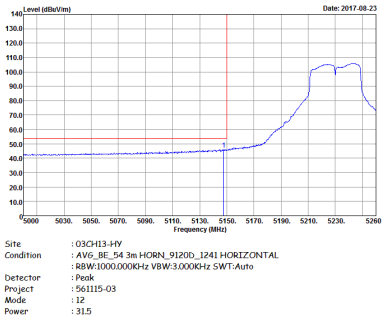
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH35 5175MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 10 Power : 9.5	Left blank

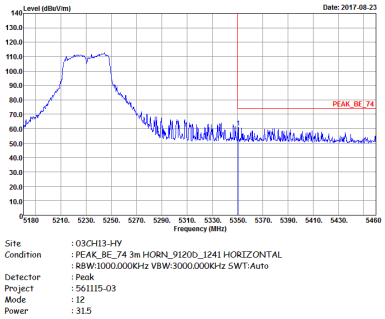
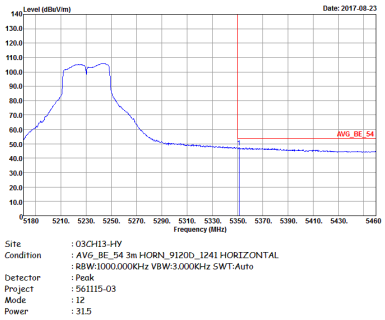
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank

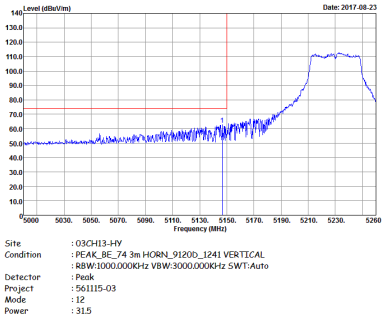
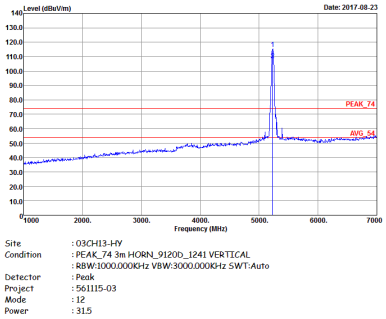
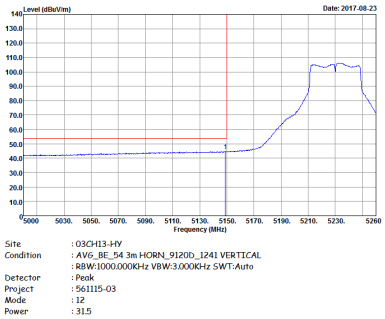
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank

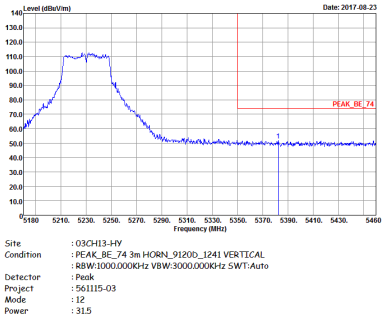
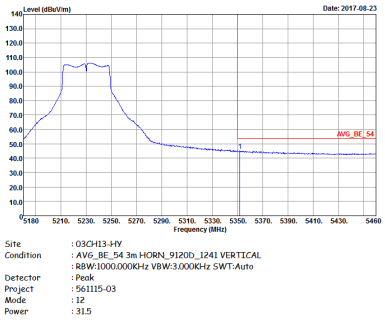
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	Left blank

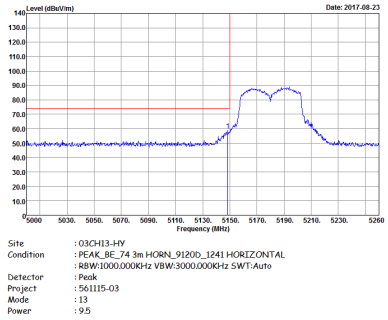
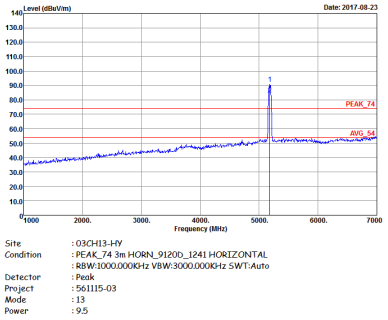
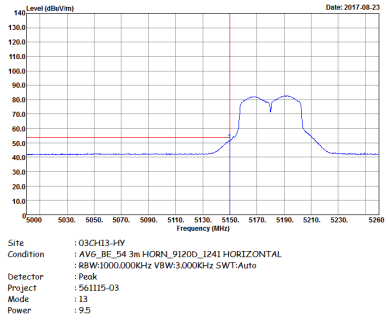
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

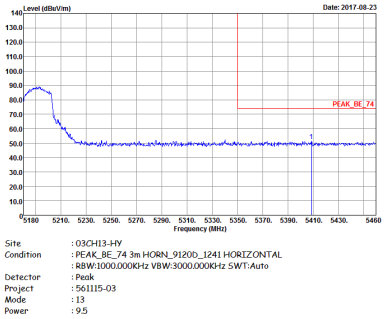
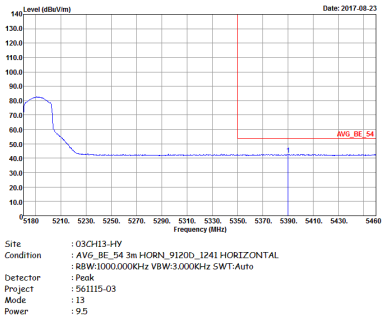
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

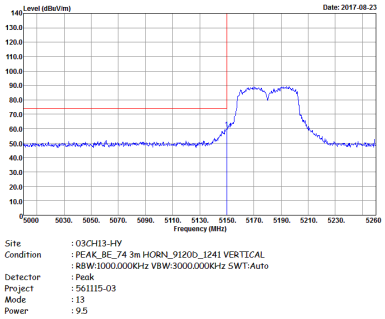
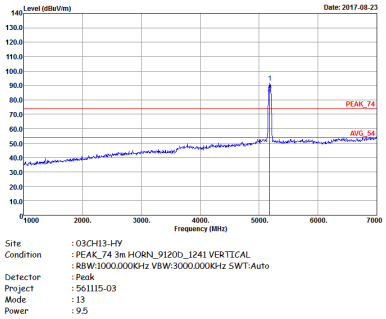
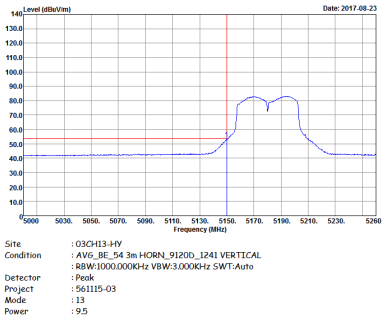
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

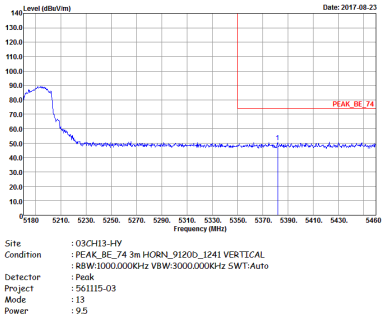
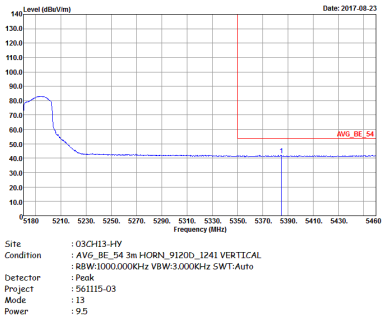
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

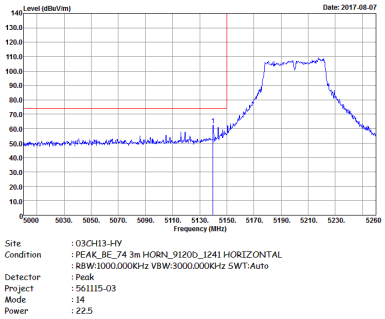
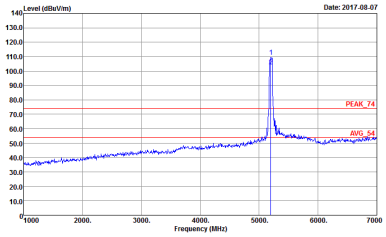
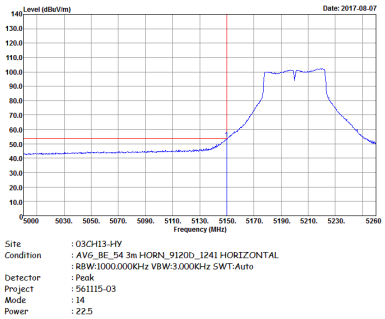
Band 1 5150~5250MHz
WIFI 802.11ac VHT50 (Band Edge @ 3m)

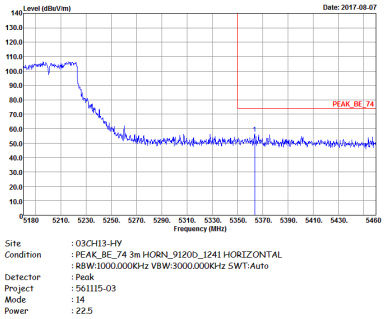
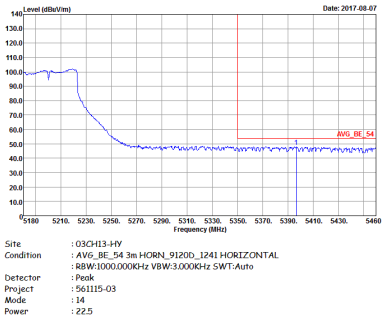
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH36 5180MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

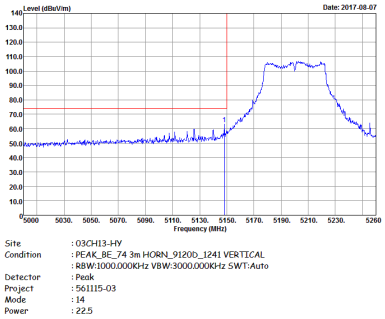
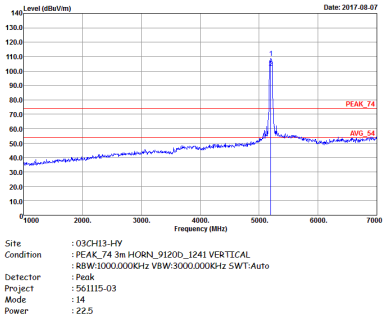
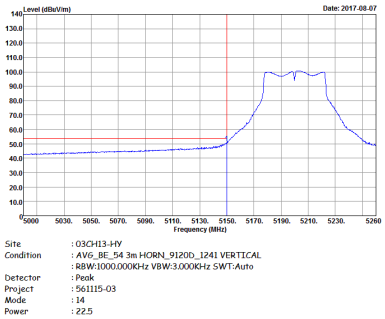
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH36 5180MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 13 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 13 Power : 9.5	Left blank

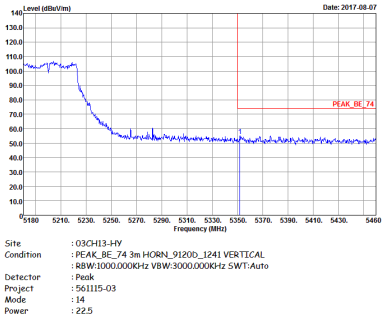
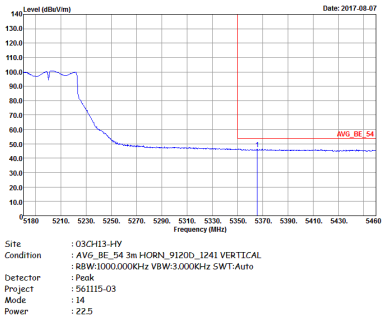
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH36 5180MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

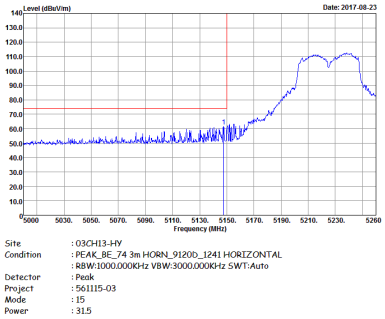
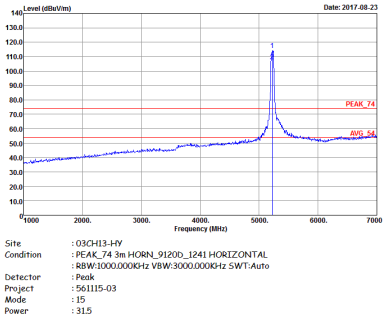
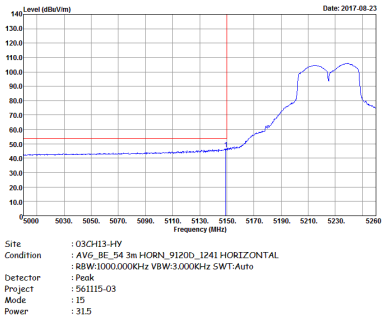
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH36 5180MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 13 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 13 Power : 9.5	Left blank

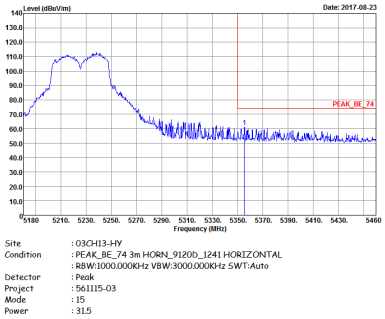
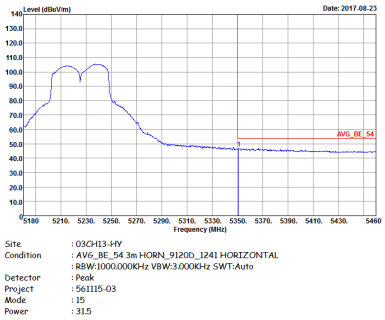
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	Left blank

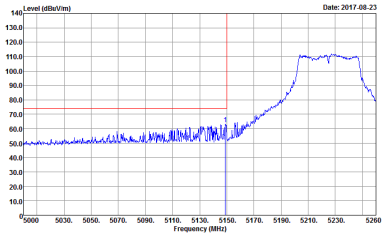
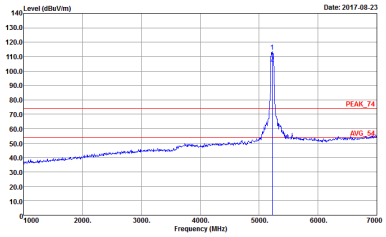
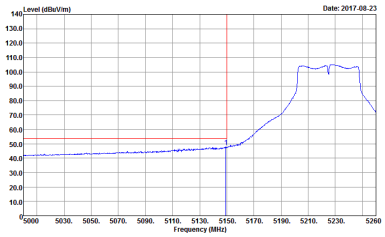
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	Left blank

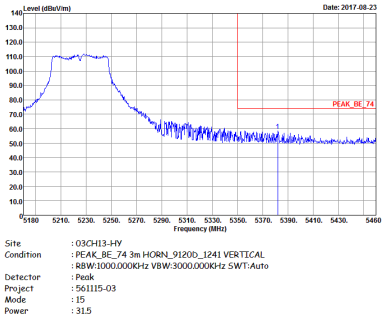
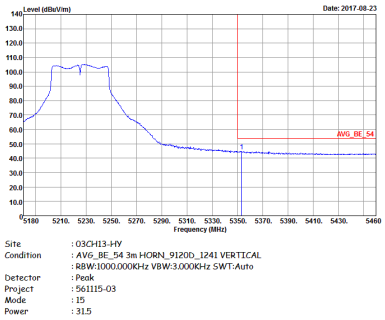
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 14 Power : 22.5	Left blank

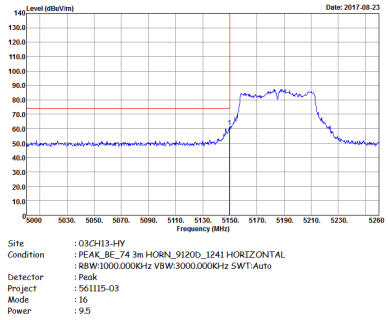
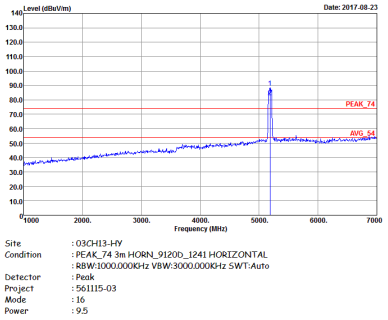
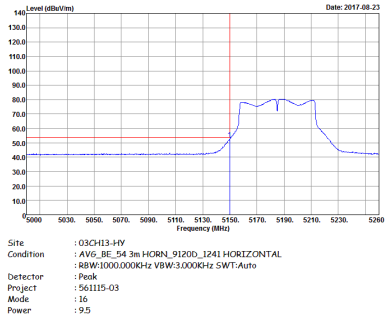
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH45 5225MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank

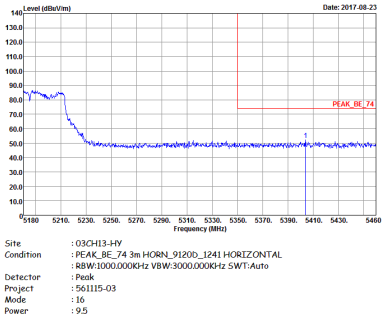
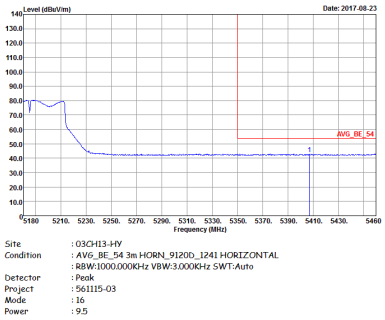
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH45 5225MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank

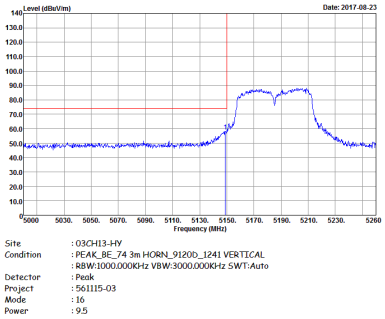
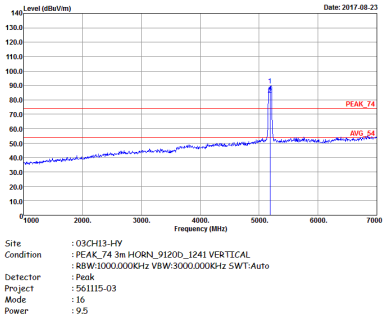
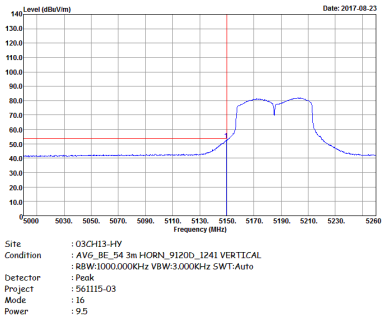
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH45 5225MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank

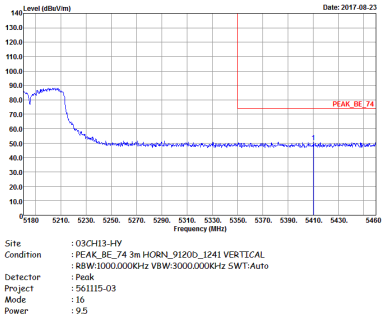
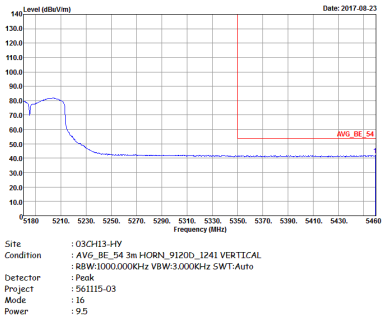
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT50 CH45 5225MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 15 Power : 31.5	Left blank

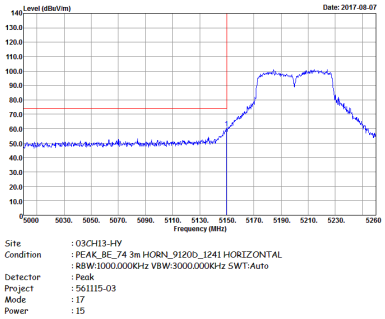
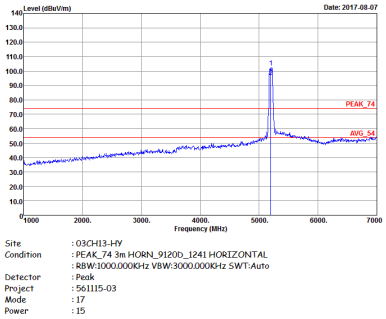
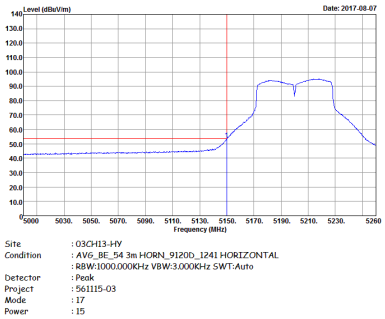
Band 1 5150~5250MHz
WIFI 802.11ac VHT60 (Band Edge @ 3m)

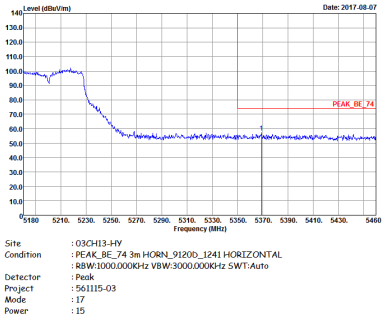
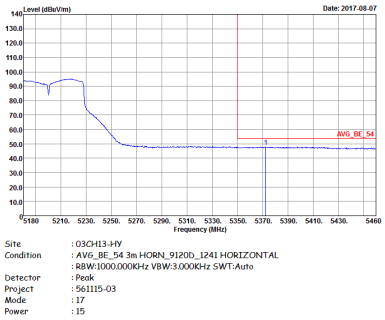
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH37 5185MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

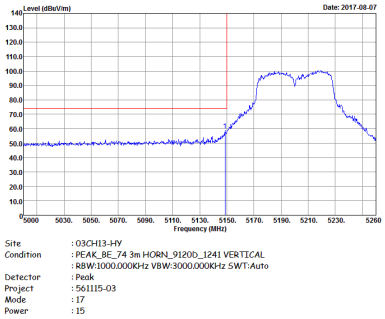
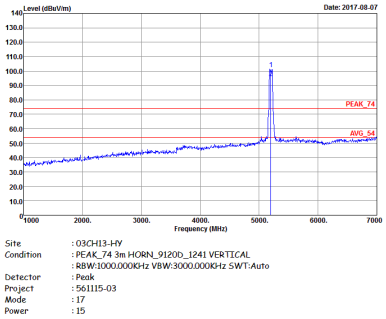
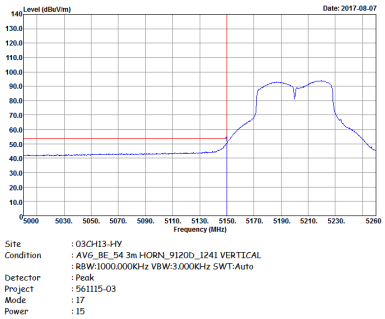
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH37 5185MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 16 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 16 Power : 9.5	Left blank

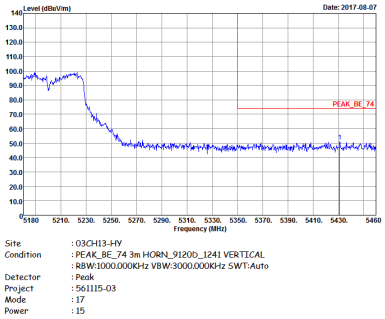
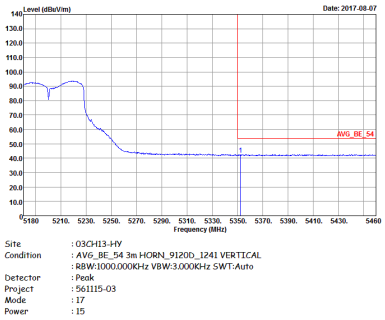
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH37 5185MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

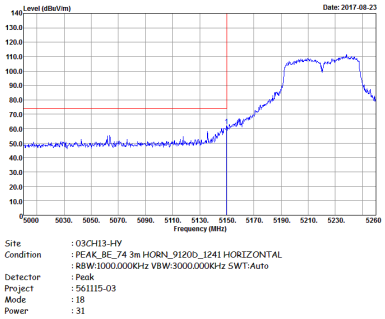
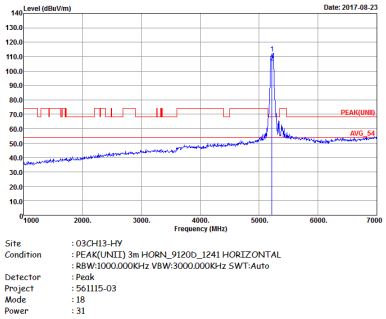
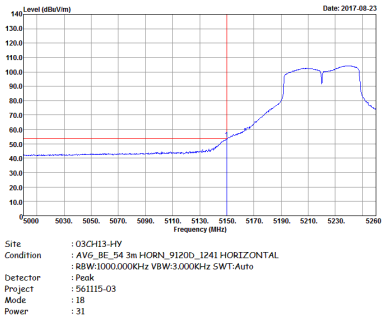
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH37 5185MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 16 Power : 9.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 16 Power : 9.5	Left blank

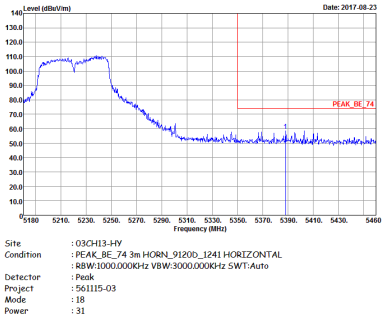
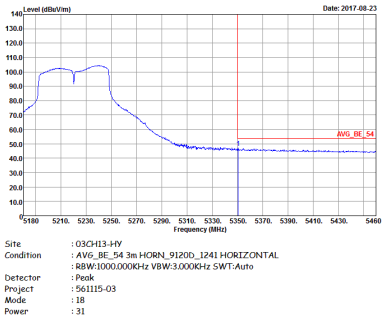
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

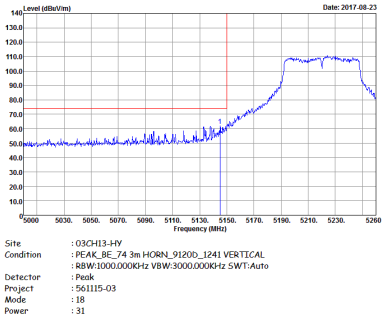
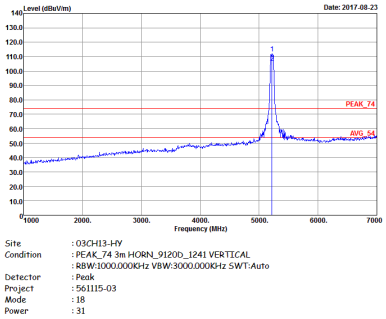
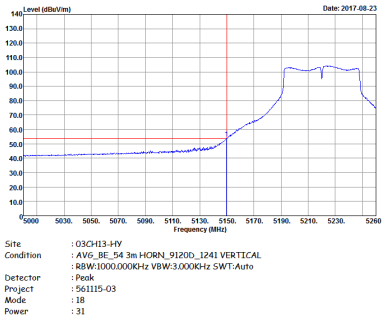
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 17 Power : 15	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 17 Power : 15	Left blank

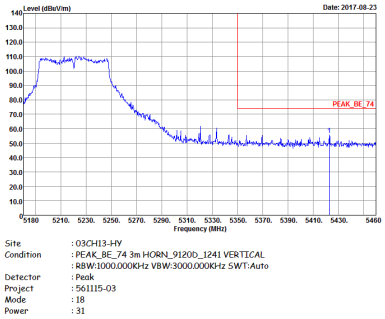
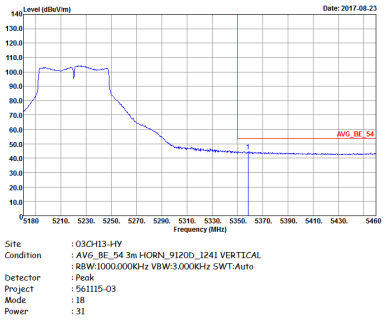
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 17 Power : 15	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 17 Power : 15	Left blank

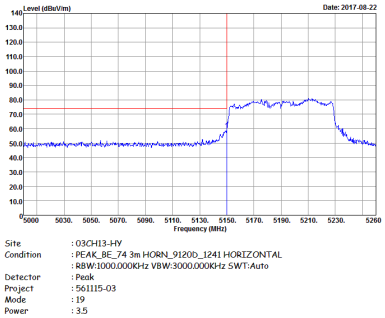
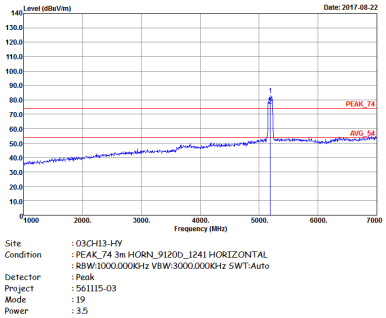
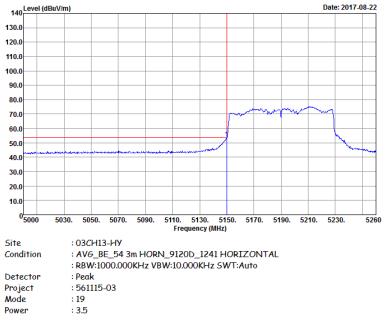
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 18 Power : 31	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 18 Power : 31
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 18 Power : 31	Left blank

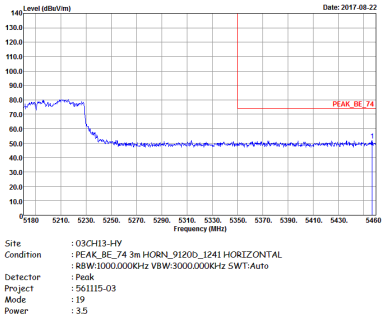
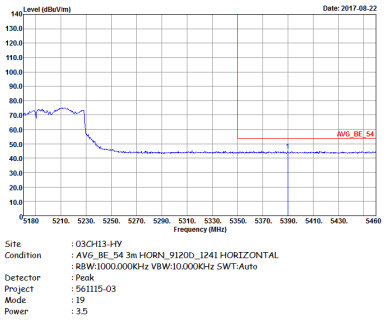
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 18 Power : 31	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 18 Power : 31	Left blank

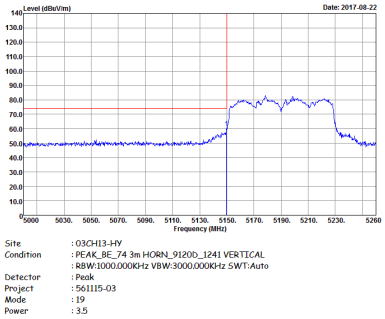
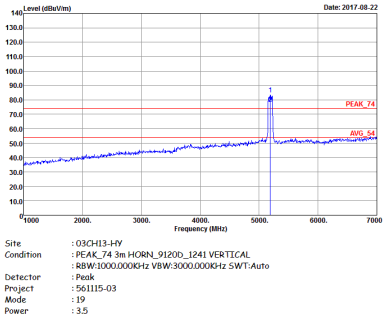
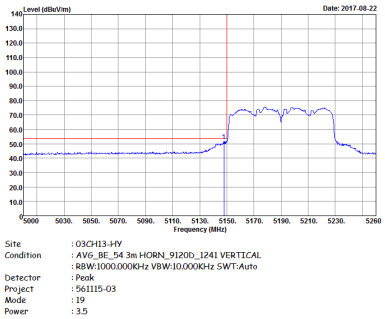
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

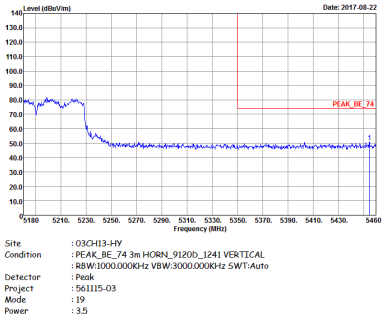
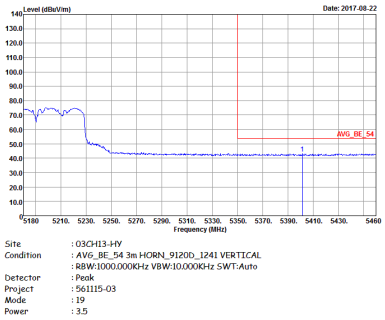
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT60 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

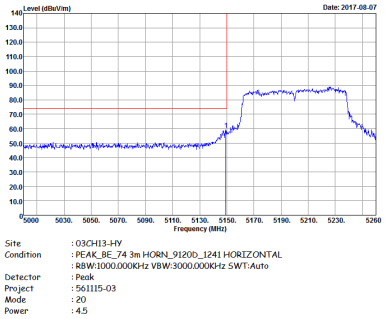
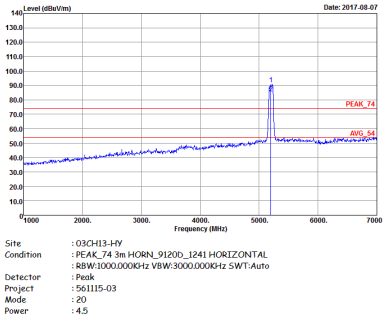
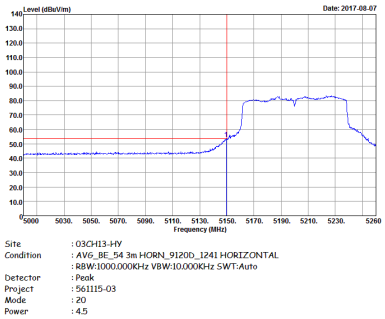
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

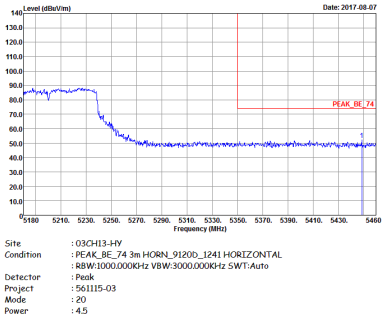
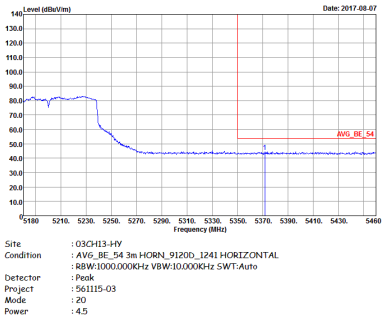
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

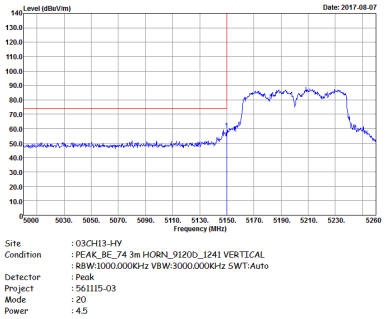
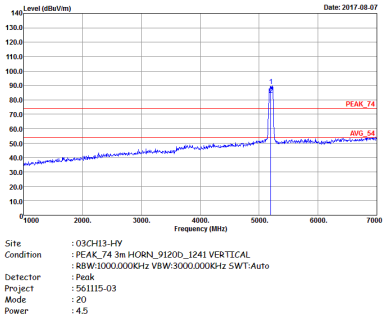
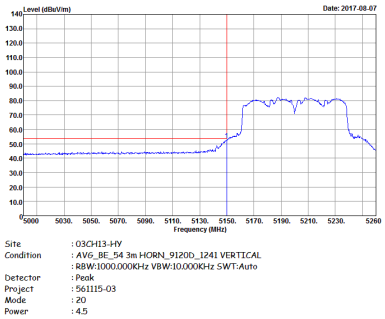
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 19 Power : 3.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 19 Power : 3.5	Left blank

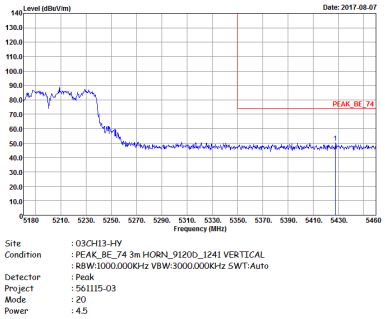
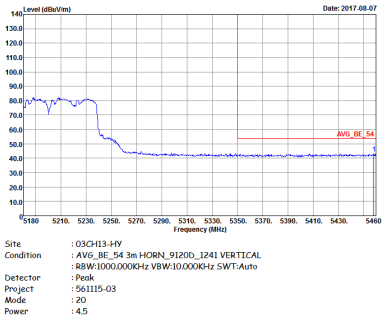
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

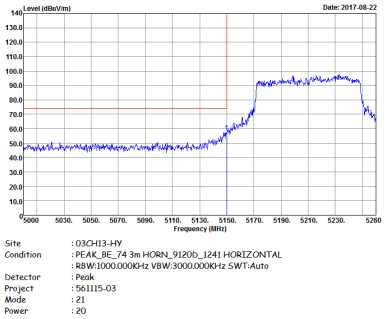
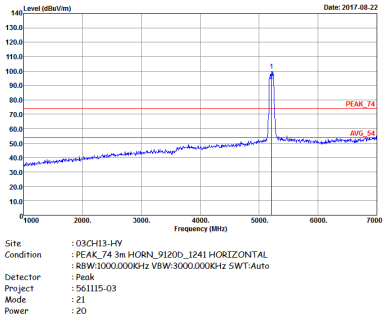
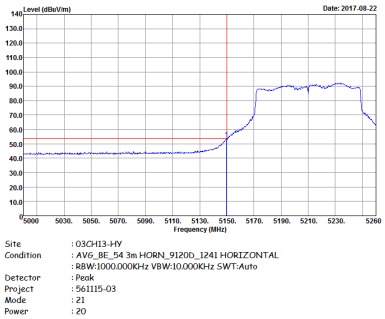
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 19 Power : 3.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 19 Power : 3.5	Left blank

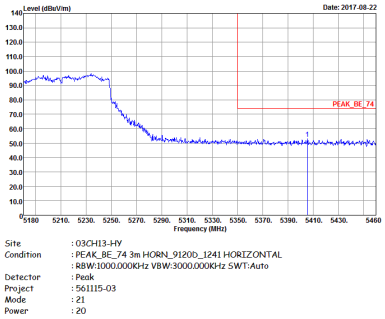
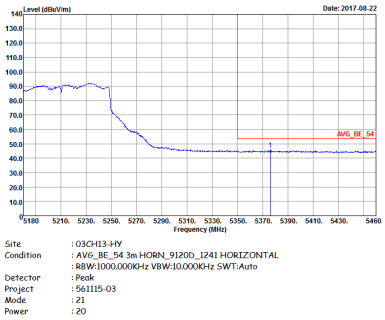
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH40 5200MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5	Left blank

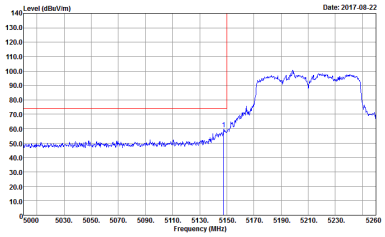
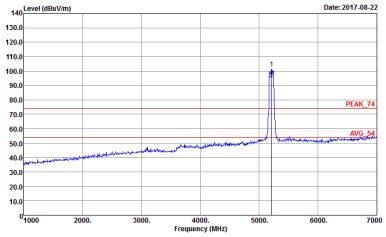
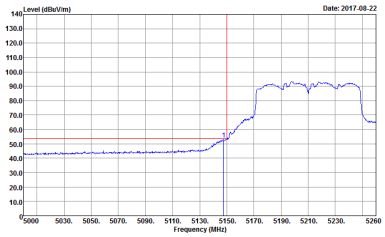
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH40 5200MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5	Left blank

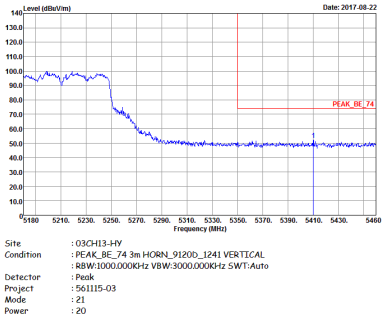
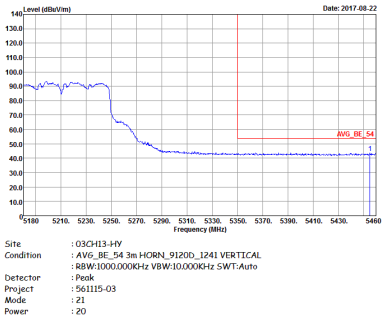
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH40 5200MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH40 5200MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank

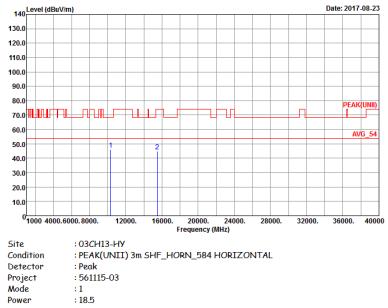
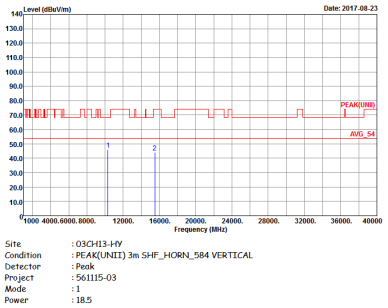
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank

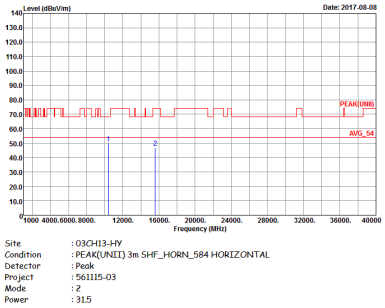
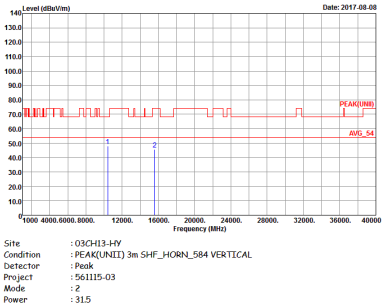
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank

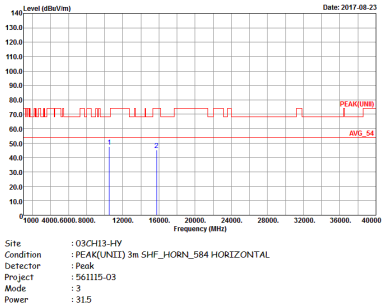
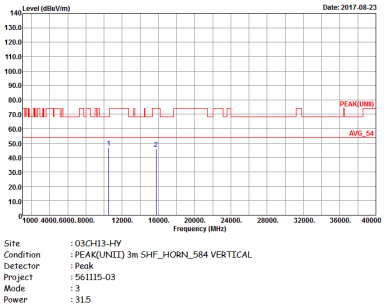
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 561115-03 Mode : 21 Power : 20	Left blank

Band 1 - 5150~5250MHz

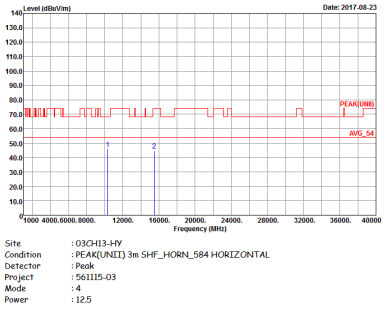
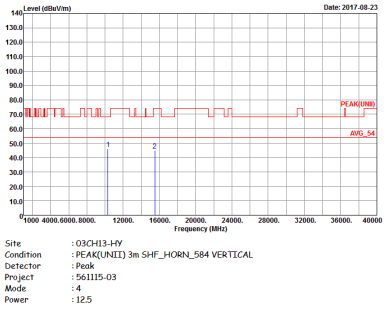
WIFI 802.11ac VHT10 (Harmonic @ 3m)

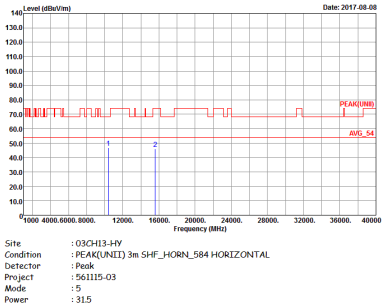
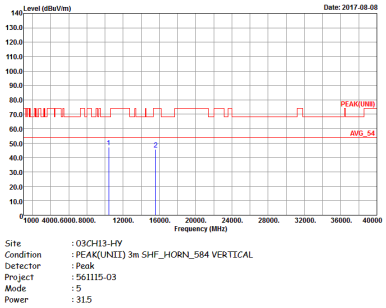
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT10 CH32 5160MHz	
1	Horizontal	Vertical
Peak Avg.		

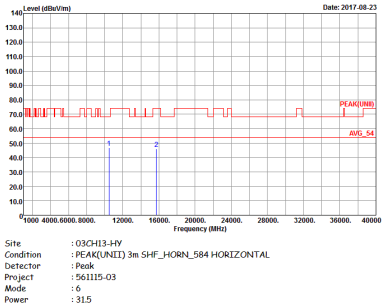
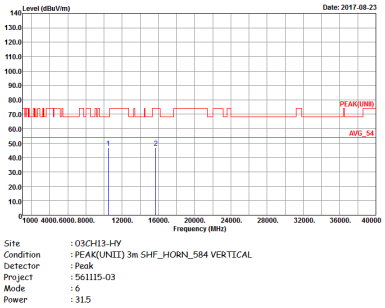
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT10 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT10 CH49 5245MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 3 Power : 31.5

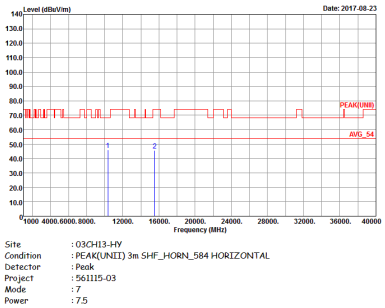
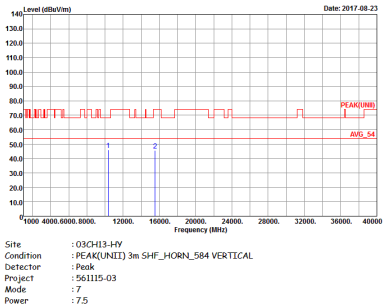
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

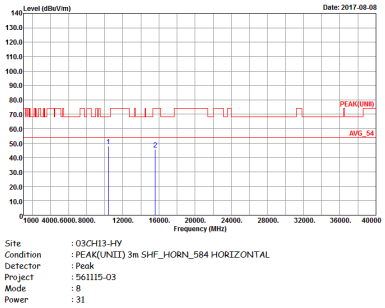
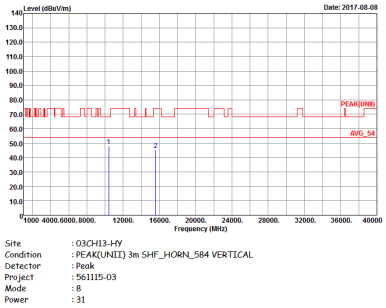
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH33 5165MHz	
1	Horizontal	Vertical
Peak Avg.		

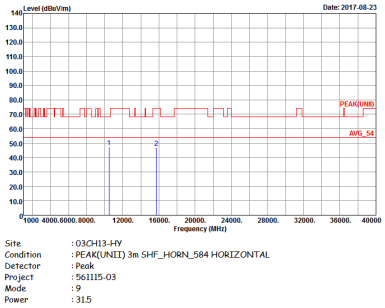
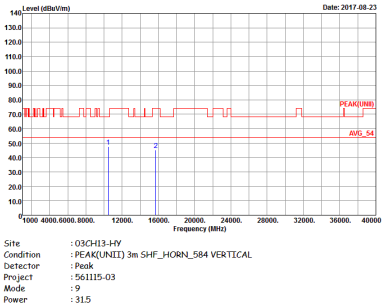
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 6 Power : 31.5

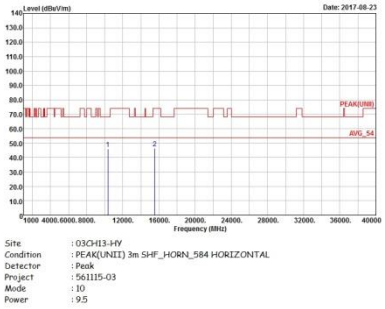
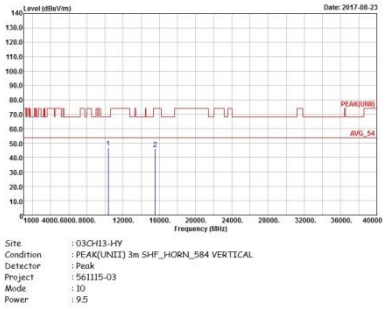
Band 1 5150~5250MHz
WIFI 802.11ac VHT30 (Harmonic @ 3m)

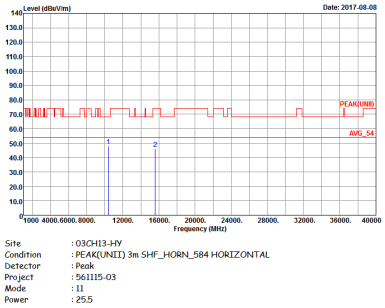
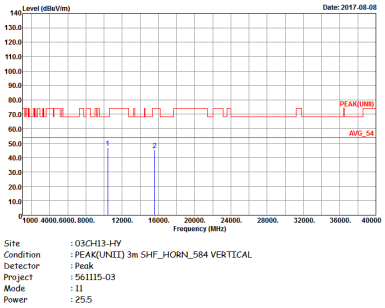
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT30 CH34 5170MHz	
1	Horizontal	Vertical
Peak Avg.		

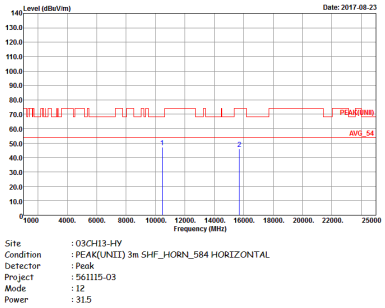
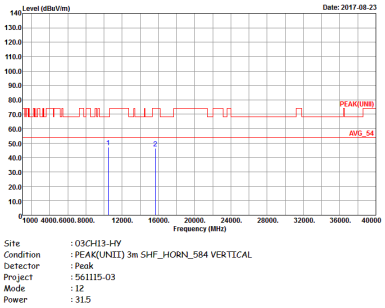
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT30 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 8 Power : 31	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 8 Power : 31

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT30 CH47 5235MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 9 Power : 31.5

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

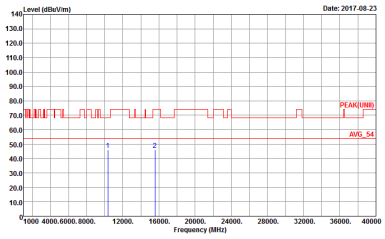
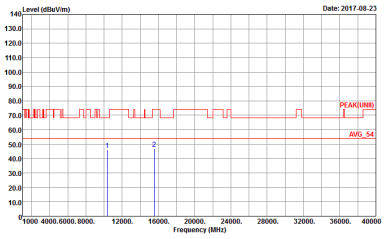
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH35 5175MHz	
1	Horizontal	Vertical
Peak Avg.		

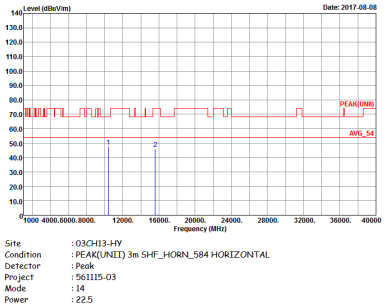
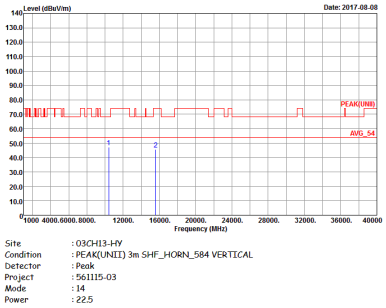
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 11 Power : 25.5

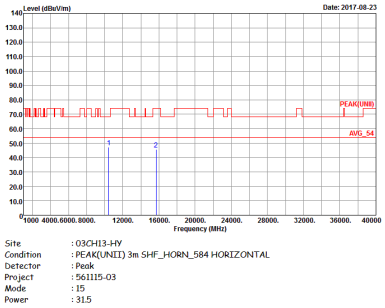
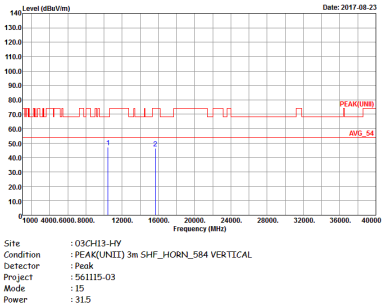
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 12 Power : 31.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 12 Power : 31.5

Band 1 5150~5250MHz

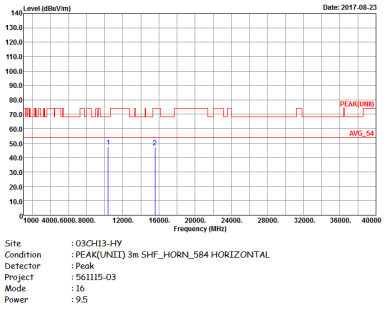
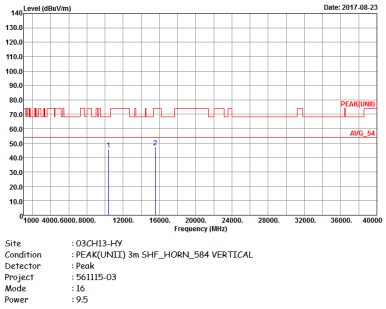
WIFI 802.11ac VHT50 (Harmonic @ 3m)

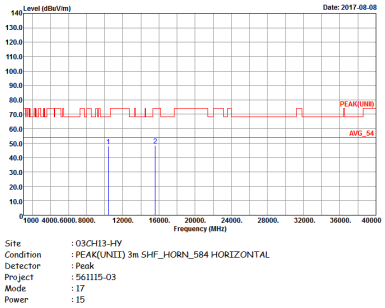
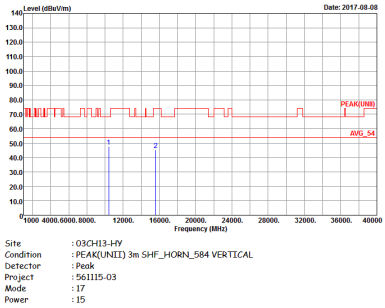
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	c	
1	Horizontal	Vertical
Peak Avg.		

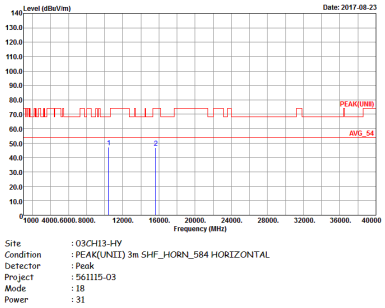
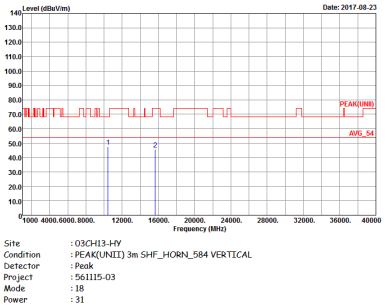
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT50 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT50 CH45 5225MHz	
1	Horizontal	Vertical
Peak Avg.		

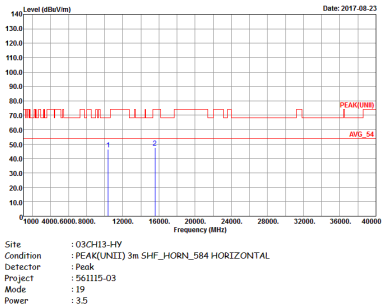
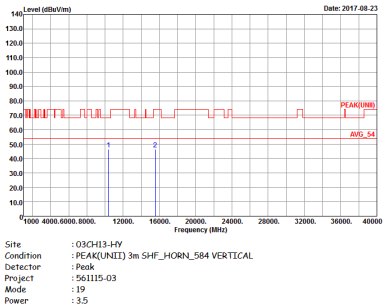
Band 1 5150~5250MHz
WIFI 802.11ac VHT60 (Harmonic @ 3m)

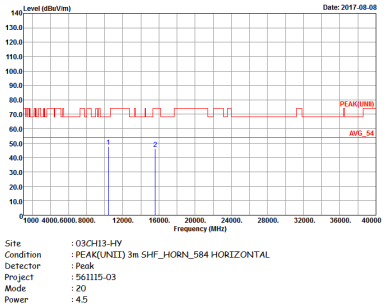
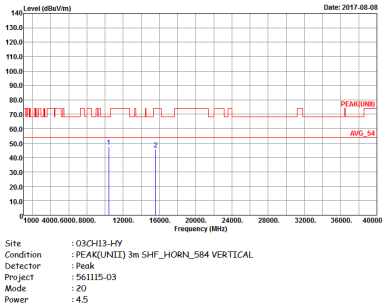
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT60 CH37 5185MHz	
1	Horizontal	Vertical
Peak Avg.		

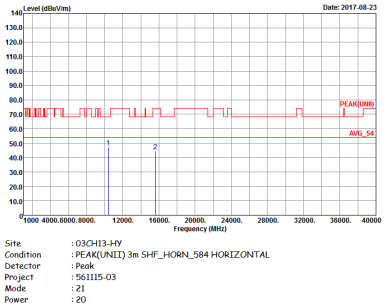
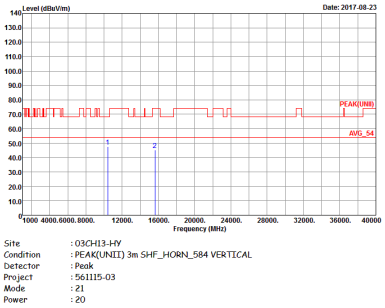
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT60 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 17 Power : 15	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 17 Power : 15

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT60 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

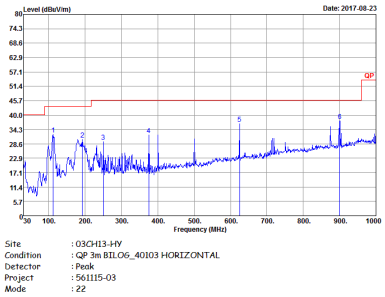
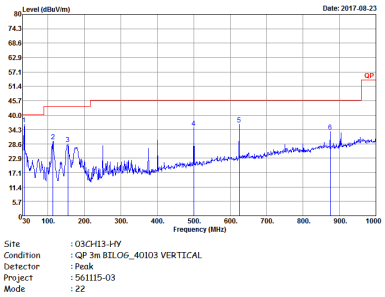
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH40 5200MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 20 Power : 4.5

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 561115-03 Mode : 21 Power : 20	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 561115-03 Mode : 21 Power : 20

Emission below 1GHz

5GHz WIFI 802.11ac VHT60 (LF)

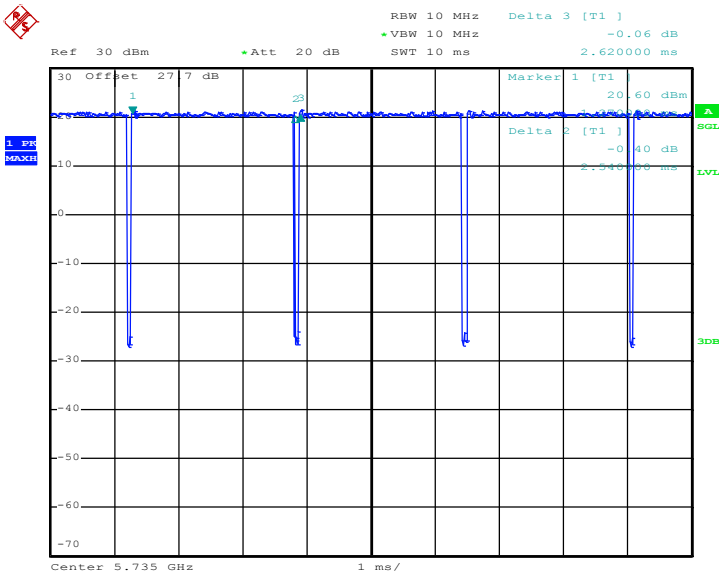
WIFI	5GHz WIFI	
ANT	802.11ac VHT60 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11ac10 for Ant. 1	96.95	2540	0.39	1kHz
1+2	5GHz 802.11ac10 for Ant. 2	96.95	2540	0.39	
1+2	5GHz 802.11ac20 for Ant. 1	95.49	1270	0.79	
1+2	5GHz 802.11ac20 for Ant. 2	95.49	1270	0.79	
1+2	5GHz 802.11ac30 for Ant. 1	93.33	840	1.19	3kHz
1+2	5GHz 802.11ac30 for Ant. 2	92.22	830	1.20	
1+2	5GHz 802.11ac40 for Ant. 1	91.43	640	1.56	
1+2	5GHz 802.11ac40 for Ant. 2	90.00	630	1.59	
1+2	5GHz 802.11ac50 for Ant. 1	90.21	516	1.94	
1+2	5GHz 802.11ac50 for Ant. 2	90.21	516	1.94	
1+2	5GHz 802.11ac60 for Ant. 1	88.98	420	2.38	
1+2	5GHz 802.11ac60 for Ant. 2	87.40	416	2.40	
1+2	5GHz 802.11ac80 for Ant. 1	83.87	312	3.21	10kHz
1+2	5GHz 802.11ac80 for Ant. 2	83.87	312	3.21	

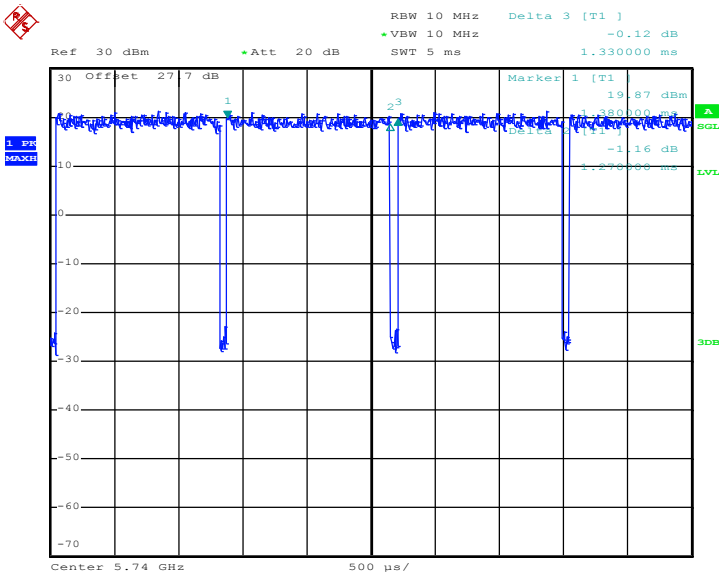
MIMO <Ant. 1+2(1)>

802.11ac VHT10



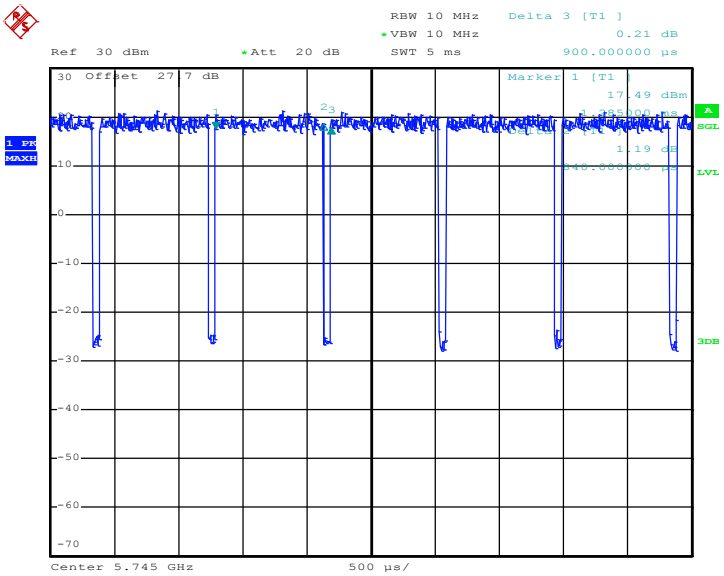
Date: 5.AUG.2017 00:22:59

802.11ac VHT20



Date: 5.AUG.2017 00:28:16

802.11ac VHT30



Date: 5.AUG.2017 00:32:31

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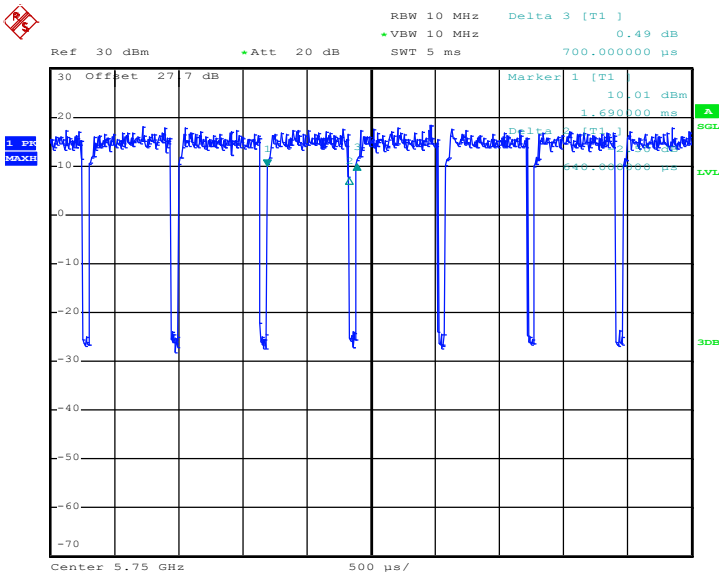

Date: 5.AUG.2017 00:42:53

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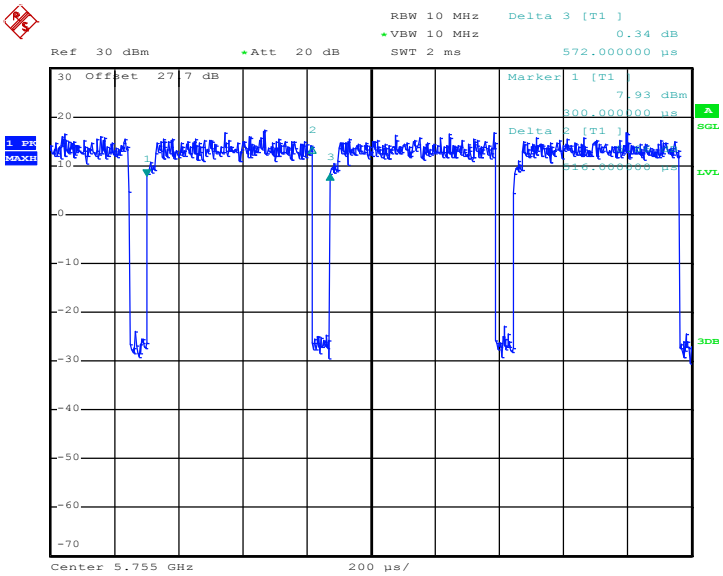

Date: 5.AUG.2017 00:50:22

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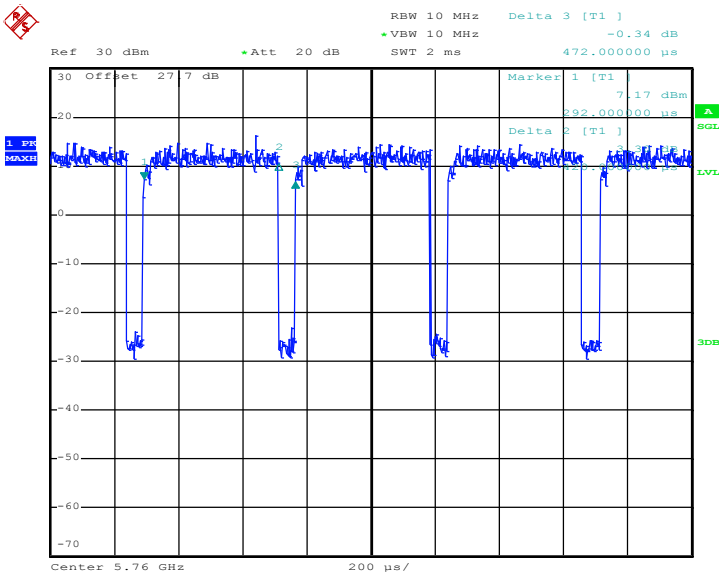

Date: 5.AUG.2017 00:56:06

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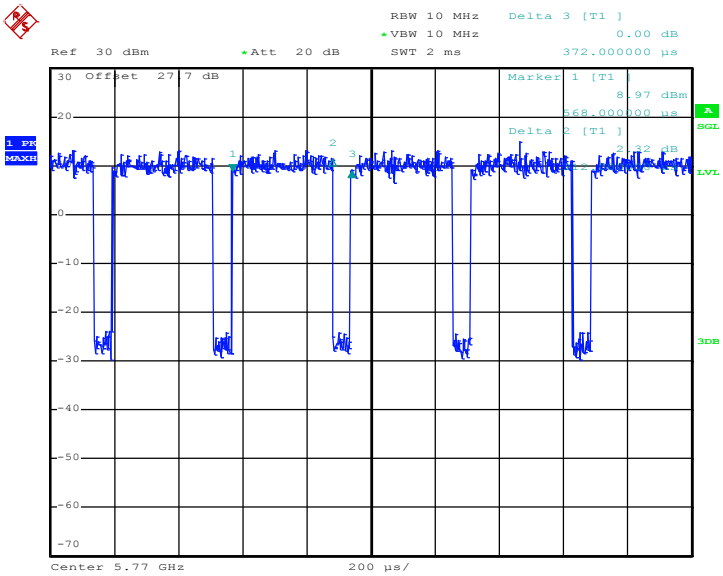

Date: 5.AUG.2017 01:00:54

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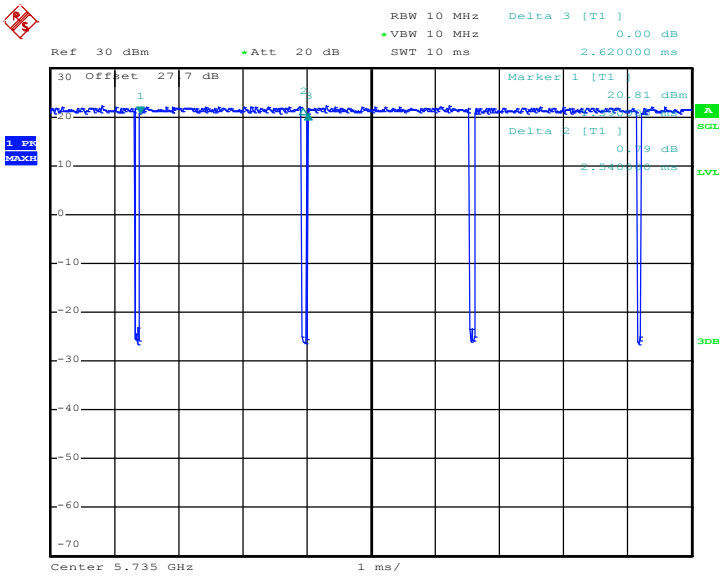

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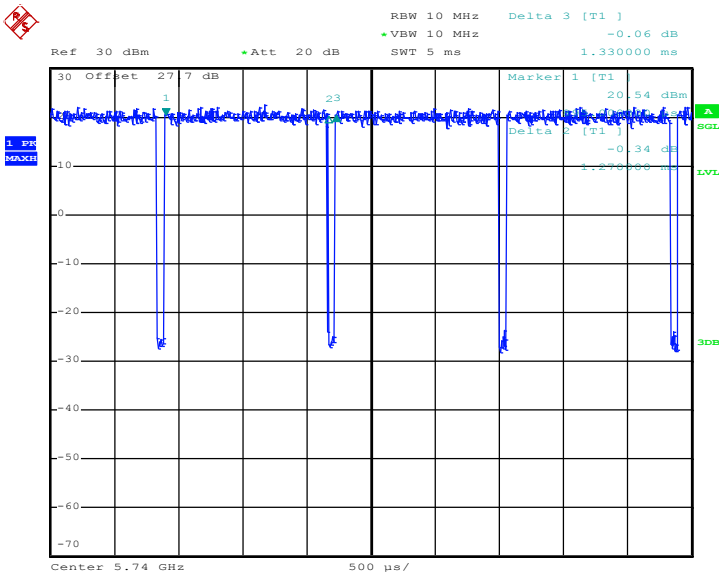

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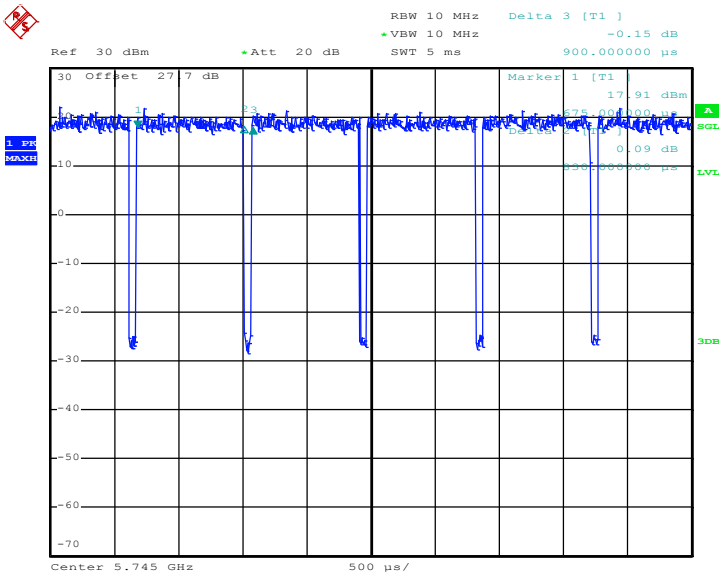

Date: 5.AUG.2017 00:36:53

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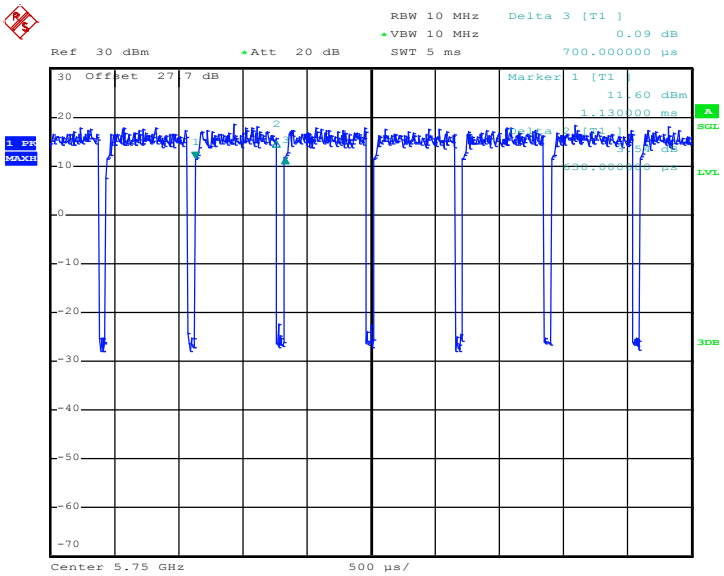

Date: 5.AUG.2017 00:45:38

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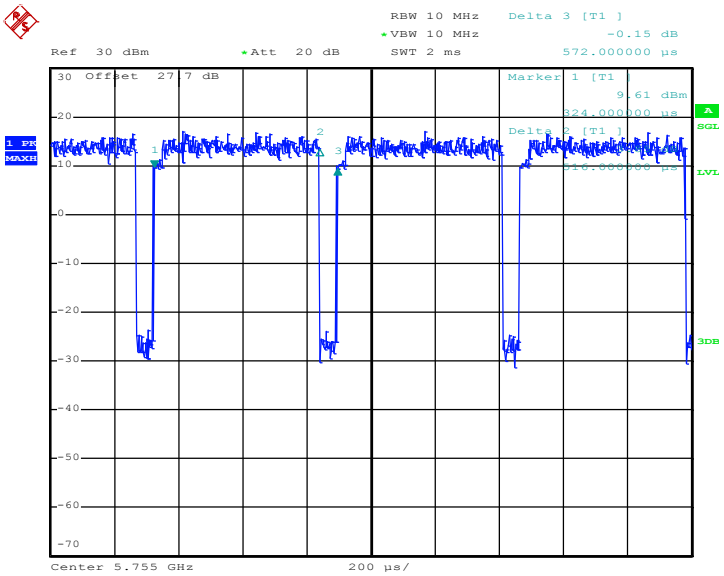

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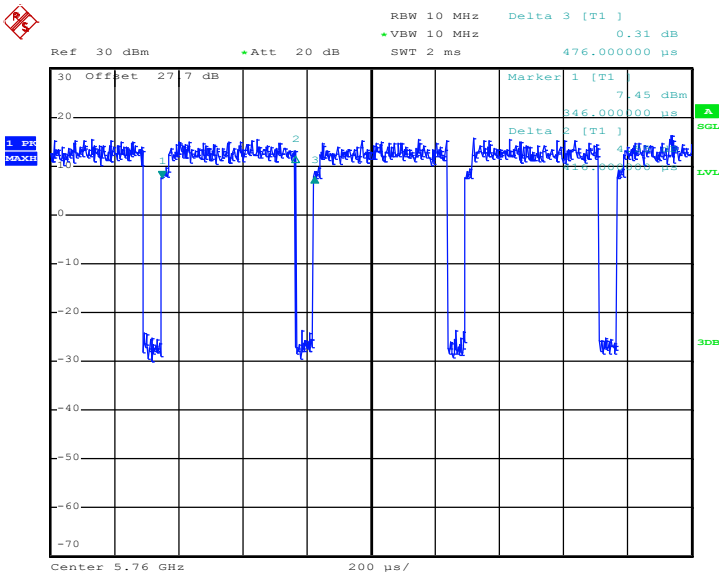

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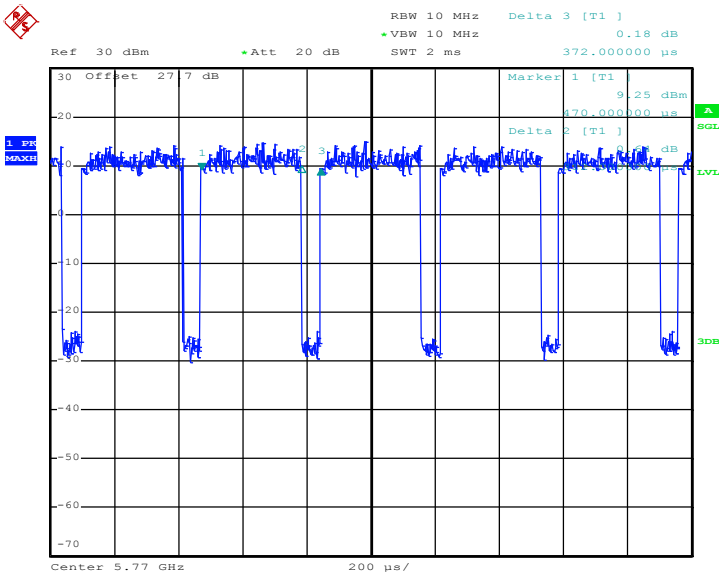

Date: 5.AUG.2017 01:02:08