



FCC RF Test Report

APPLICANT : TP-LINK TECHNOLOGIES CO., LTD.
EQUIPMENT : AC1200 Wi-Fi Range Extender
BRAND NAME : TP-LINK
MODEL NAME : RE350
FCC ID : TE7RE350
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Sep. 24, 2016 and testing was completed on Dec. 28, 2016. 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



SPORTON INTERNATIONAL INC.

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



TABLE OF CONTENTS

REVISION HISTORY 3

SUMMARY OF TEST RESULT 4

1 GENERAL DESCRIPTION 5

 1.1 Applicant 5

 1.2 Manufacturer 5

 1.3 Feature of Equipment Under Test 5

 1.4 Modification of EUT 5

 1.5 Testing Location 6

 1.6 Applicable Standards 6

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 7

 2.1 Carrier Frequency and Channel 7

 2.2 Test Mode 8

 2.3 Connection Diagram of Test System 10

 2.4 Support Unit used in test configuration and system 11

 2.5 EUT Operation Test Setup 11

 2.6 Measurement Results Explanation Example 11

3 TEST RESULT 12

 3.1 26dB & 99% Occupied Bandwidth Measurement 12

 3.2 Maximum Conducted Output Power Measurement 14

 3.3 Power Spectral Density Measurement 16

 3.4 Unwanted Emissions Measurement 19

 3.5 AC Conducted Emission Measurement 24

 3.6 Frequency Stability Measurement 30

 3.7 Automatically Discontinue Transmission 31

 3.8 Antenna Requirements 32

4 LIST OF MEASURING EQUIPMENT 33

5 UNCERTAINTY OF EVALUATION 34

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. RADIATED SPURIOUS EMISSION

APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS

APPENDIX D. DUTY CYCLE PLOTS

APPENDIX E. SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR641813-01	Rev. 01	Initial issue of report	Feb. 23, 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 ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 0.24 dB at 5466.880 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.40 dB at 0.774 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

TP-LINK TECHNOLOGIES CO., LTD.

Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

1.2 Manufacturer

TP-LINK TECHNOLOGIES CO., LTD.

Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

1.3 Feature of Equipment Under Test

DTS/UNII a/b/g/n/ac

Product Specification subjective to this standard	
Antenna Type	WLAN: Dipole 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. TW1022 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 1 st 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.	
	03CH11-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 v01r03
- ♦ 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: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

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: conducted emission (150 kHz to 30 MHz) and radiated 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.

2.1 Carrier Frequency and Channel

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

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

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.

MIMO Antenna

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

Note: For 802.11n HT20 / 802.11ac VHT20 and 802.11n HT40 / 802.11ac VHT40 mode, the whole testing have assessed only 802.11ac VHT20 / 802.11ac VHT40 by referring to their maximum conducted power.

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



Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140

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

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

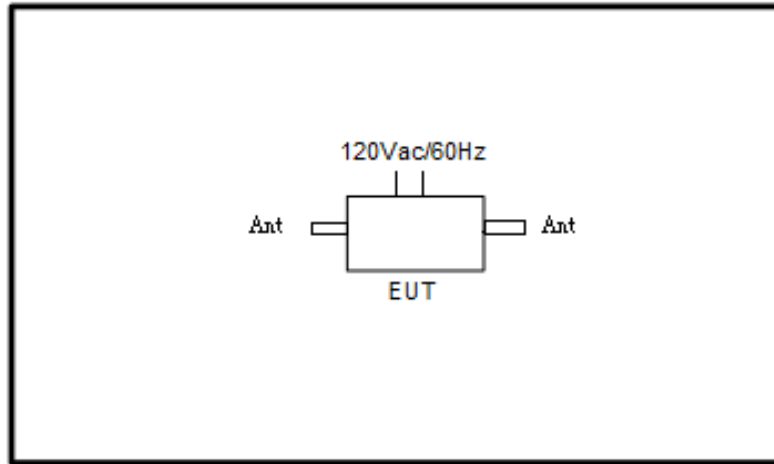
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20
L	Low	52	100
M	Middle	60	116
H	High	64	140

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT40	802.11ac VHT40
L	Low	54	102
M	Middle	-	110
H	High	62	134

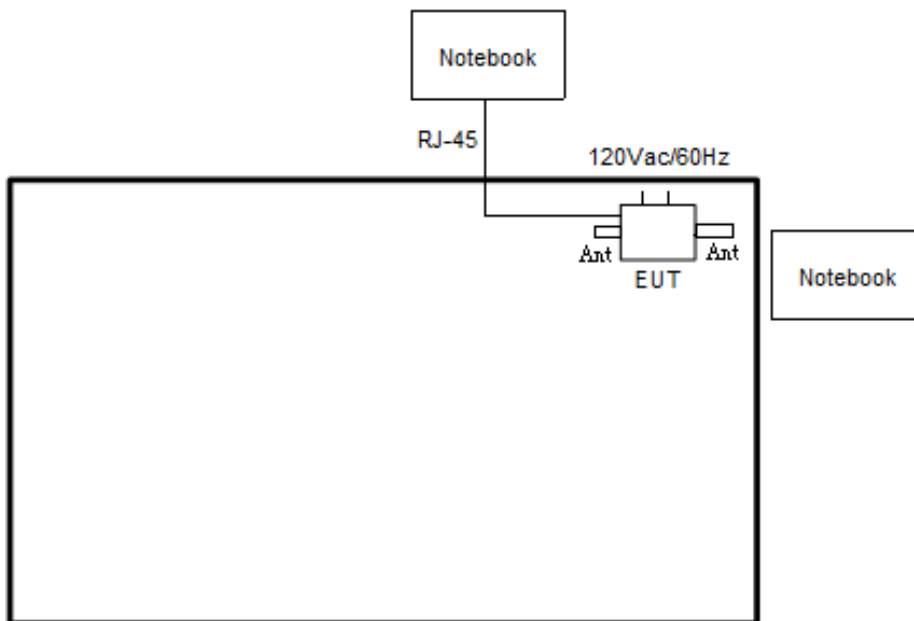
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80
L	Low	-	-
M	Middle	58	106
H	High	-	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	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	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "MT76xxE_AP.exe" 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.

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

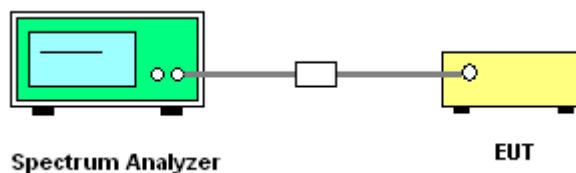
3.1.2 Measuring Instruments

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 v01r03.
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) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

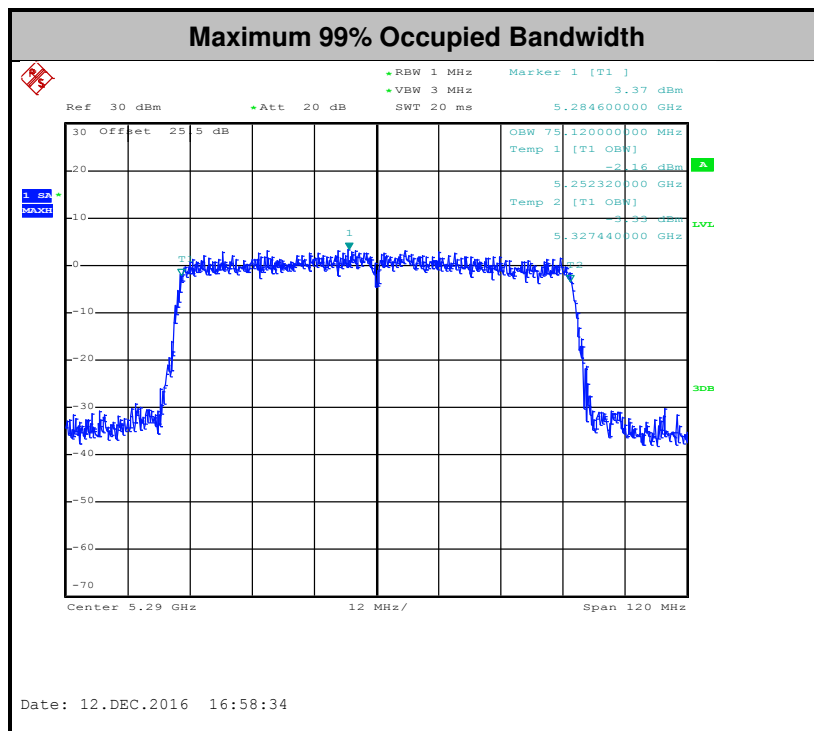
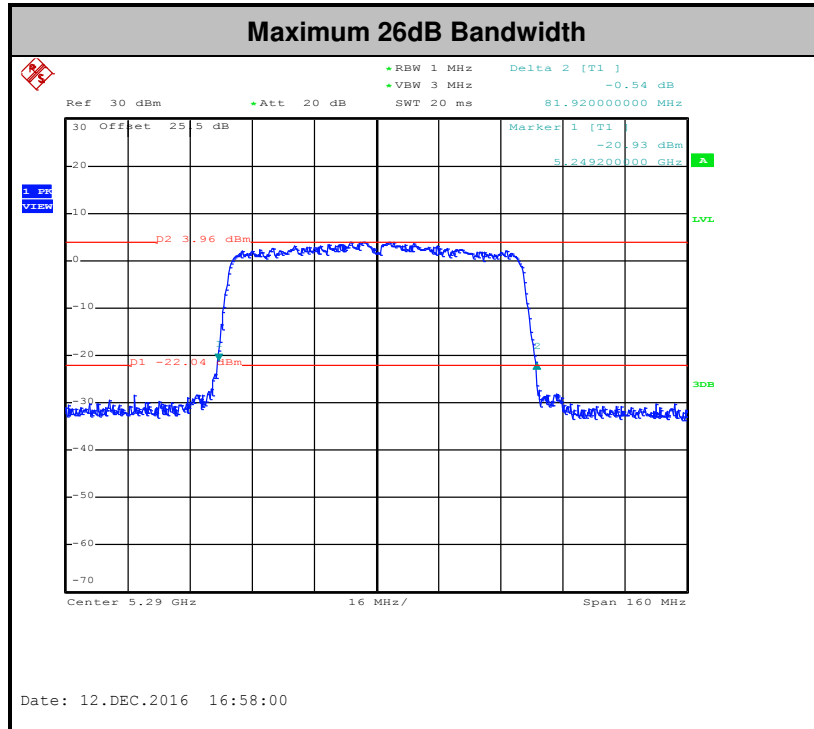
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

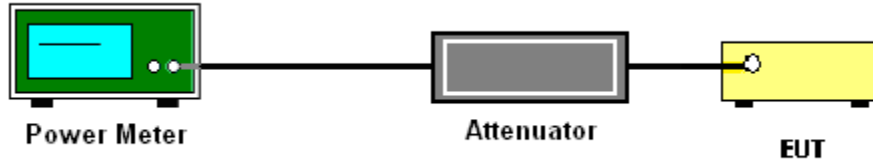
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03 for CDD modes.

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

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 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 v01r03.
Section F) Maximum power spectral density.

Method SA-2

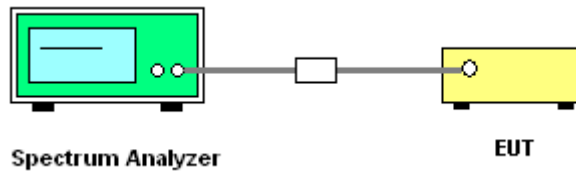
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = 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.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

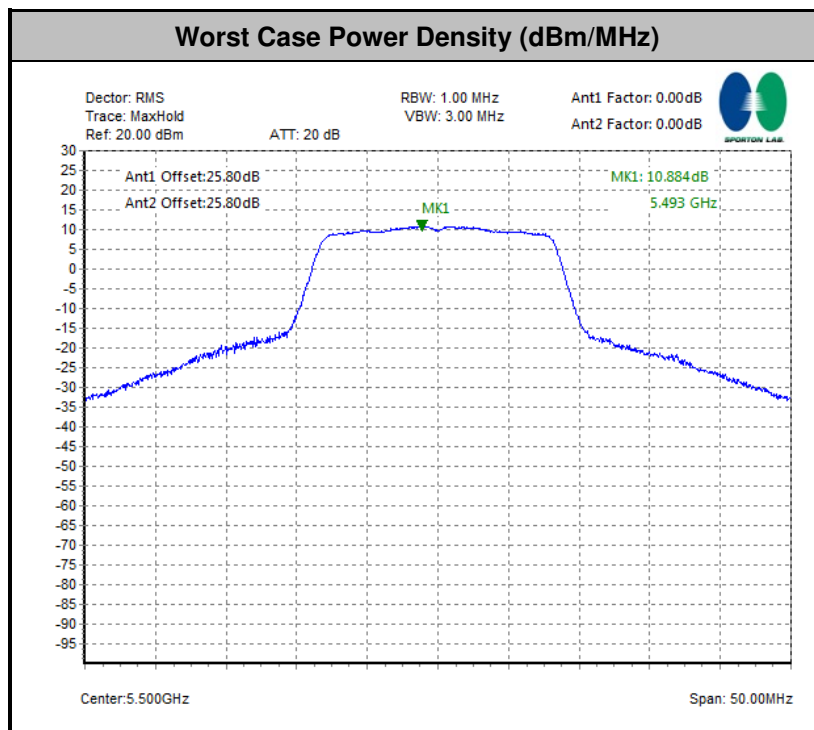
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

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

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

- (2) Unwanted spurious emissions fallen in restricted bands 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.

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



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

(3) KDB789033 D02 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission 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 v01r03. 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

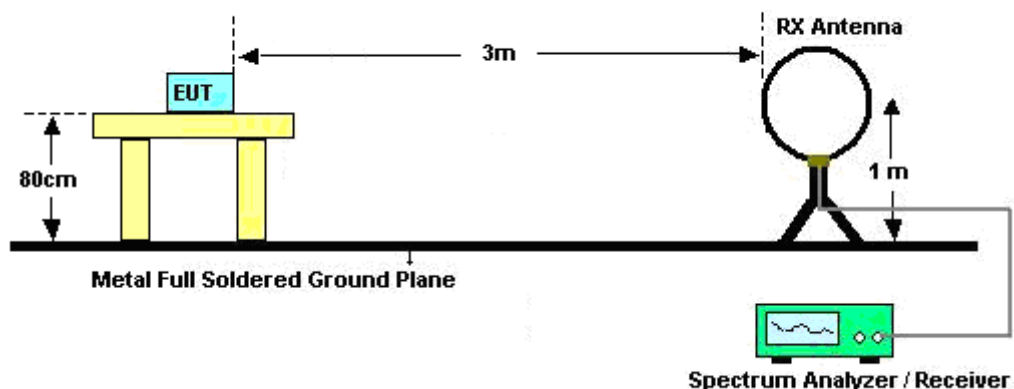
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- 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.

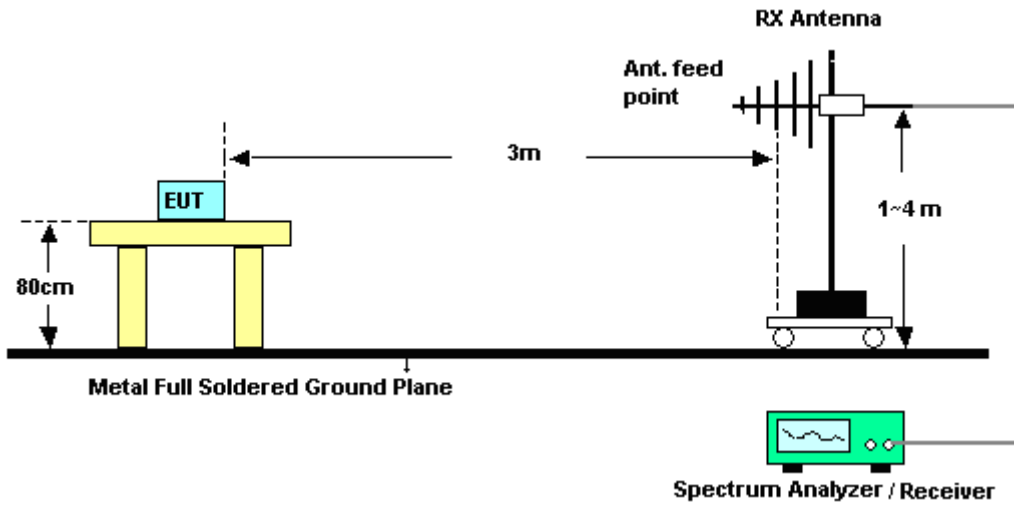
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

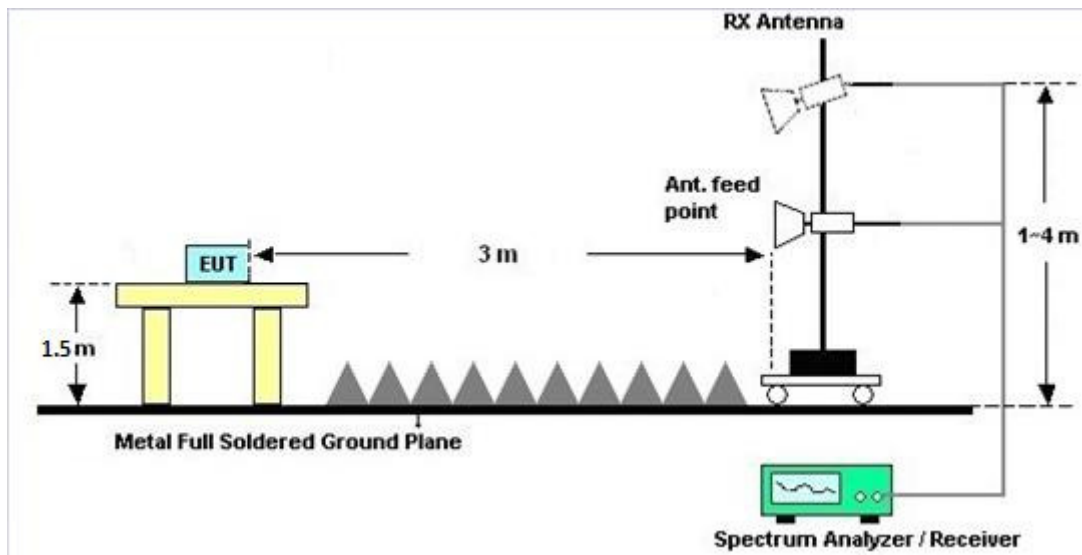
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

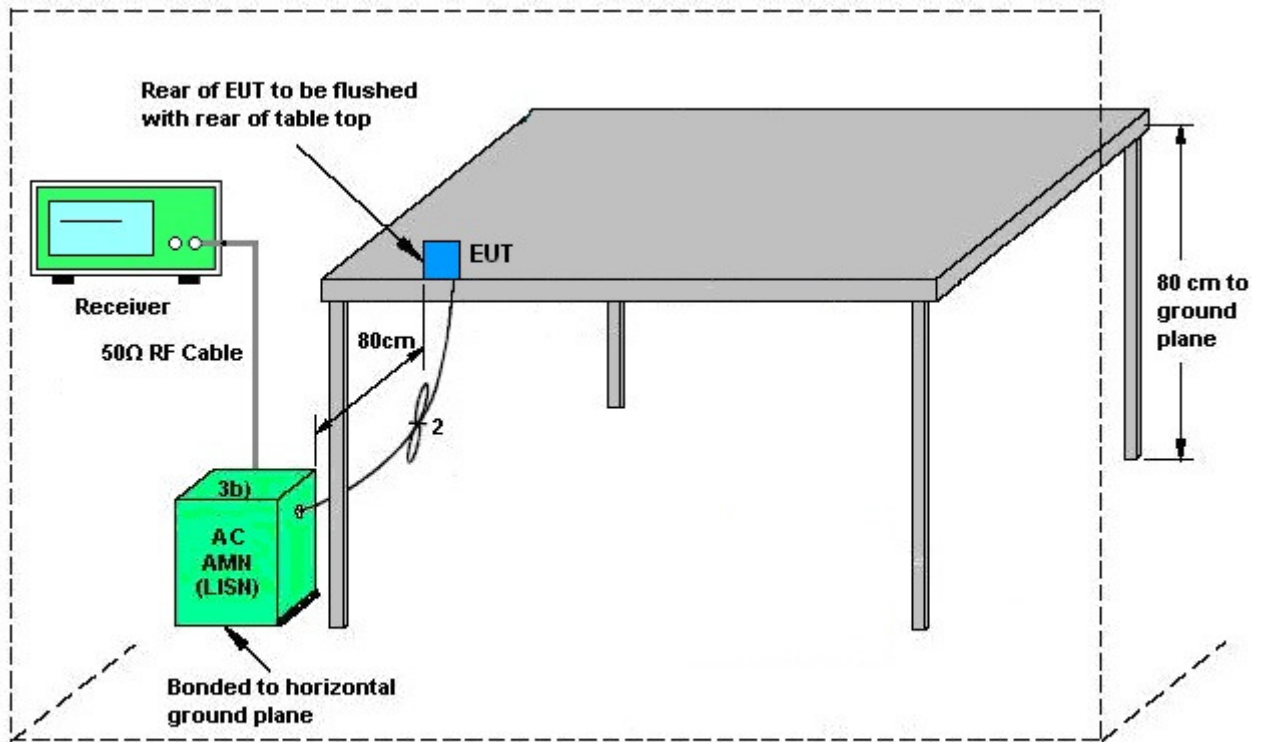
3.5.2 Measuring Instruments

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

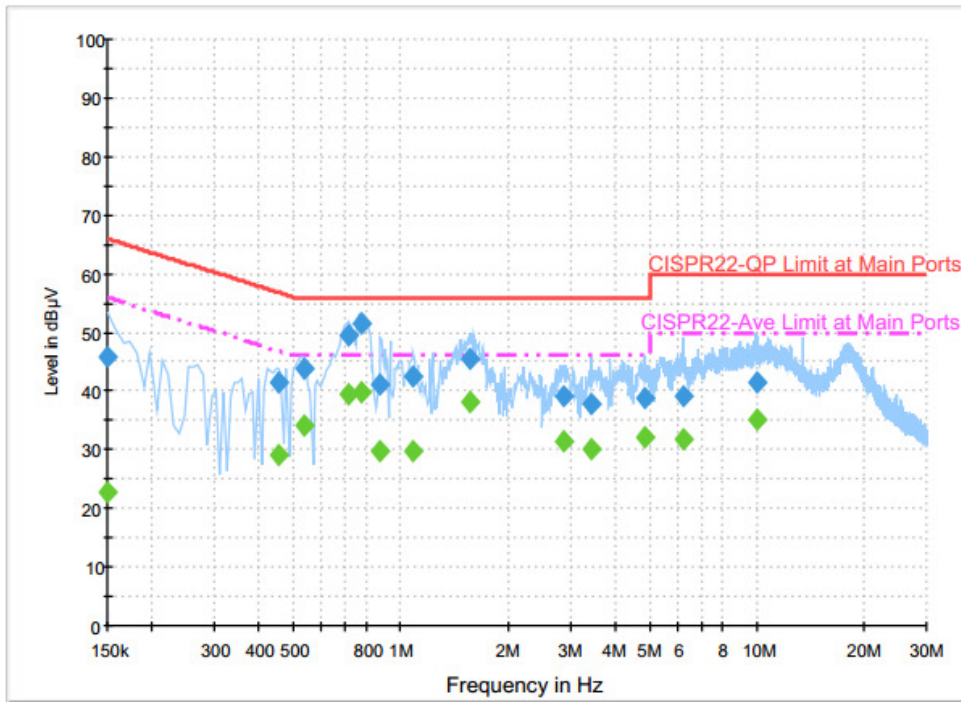


AMN = Artificial mains network (LISH)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + LAN Link		

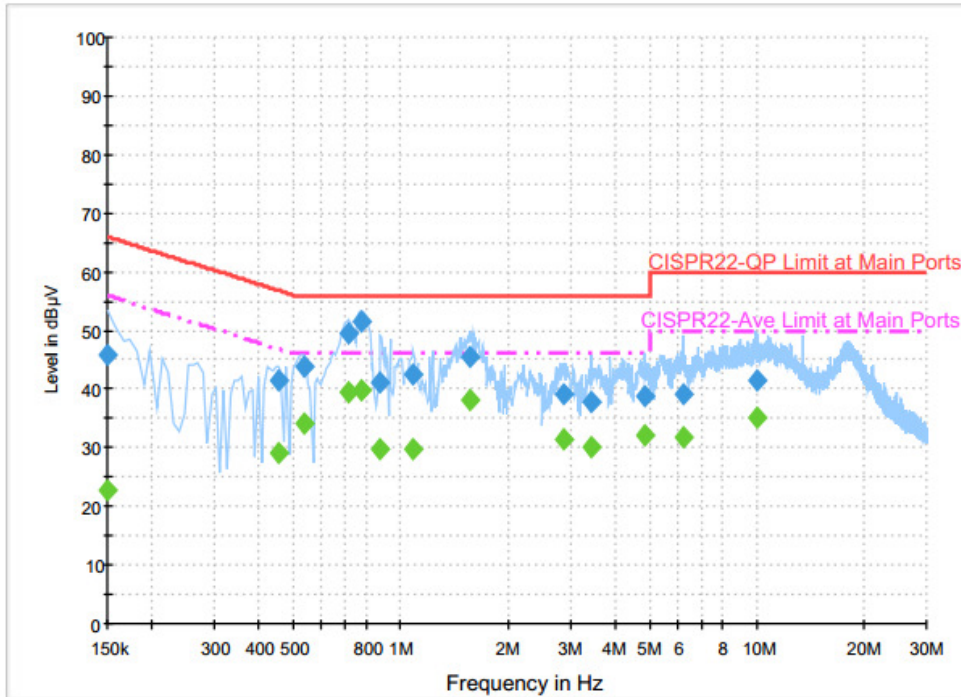


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	45.8	Off	L1	19.6	20.2	66.0
0.454000	41.6	Off	L1	19.6	15.2	56.8
0.534000	43.7	Off	L1	19.6	12.3	56.0
0.710000	49.6	Off	L1	19.6	6.4	56.0
0.774000	51.6	Off	L1	19.6	4.4	56.0
0.878000	41.0	Off	L1	19.7	15.0	56.0
1.086000	42.4	Off	L1	19.7	13.6	56.0
1.558000	45.5	Off	L1	19.7	10.5	56.0
2.862000	39.0	Off	L1	19.5	17.0	56.0
3.438000	37.8	Off	L1	19.7	18.2	56.0
4.862000	38.7	Off	L1	19.9	17.3	56.0
6.222000	39.2	Off	L1	19.9	20.8	60.0
9.990000	41.6	Off	L1	20.1	18.4	60.0



Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + LAN Link		

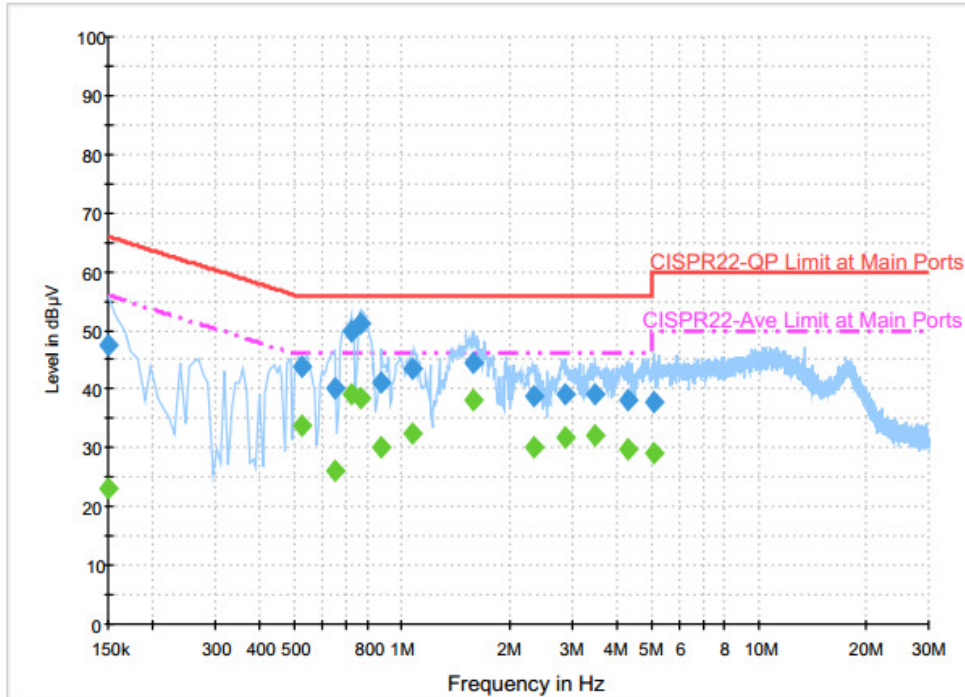


Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	22.8	Off	L1	19.6	33.2	56.0
0.454000	29.0	Off	L1	19.6	17.8	46.8
0.534000	34.2	Off	L1	19.6	11.8	46.0
0.710000	39.4	Off	L1	19.6	6.6	46.0
0.774000	39.9	Off	L1	19.6	6.1	46.0
0.878000	29.8	Off	L1	19.7	16.2	46.0
1.086000	29.9	Off	L1	19.7	16.1	46.0
1.558000	38.1	Off	L1	19.7	7.9	46.0
2.862000	31.6	Off	L1	19.5	14.4	46.0
3.438000	30.2	Off	L1	19.7	15.8	46.0
4.862000	32.0	Off	L1	19.9	14.0	46.0
6.222000	31.7	Off	L1	19.9	18.3	50.0
9.990000	35.3	Off	L1	20.1	14.7	50.0



Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + LAN Link		

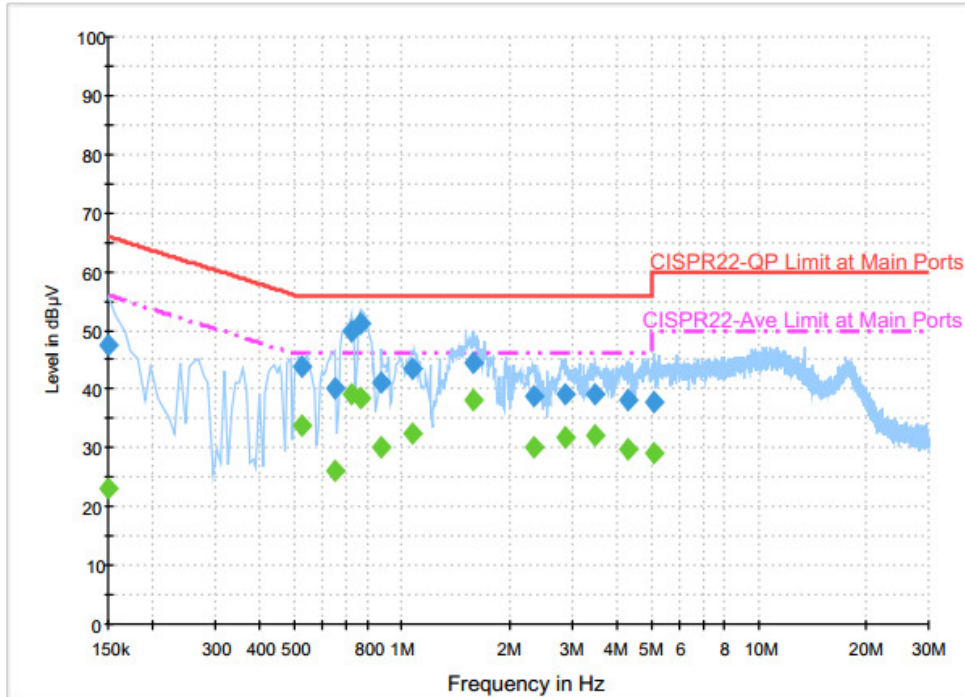


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	47.5	Off	N	19.6	18.5	66.0
0.526000	43.8	Off	N	19.6	12.2	56.0
0.646000	40.2	Off	N	19.6	15.8	56.0
0.718000	50.0	Off	N	19.6	6.0	56.0
0.766000	51.2	Off	N	19.6	4.8	56.0
0.878000	41.1	Off	N	19.6	14.9	56.0
1.070000	43.4	Off	N	19.6	12.6	56.0
1.590000	44.6	Off	N	19.7	11.4	56.0
2.342000	38.8	Off	N	18.8	17.2	56.0
2.870000	39.0	Off	N	19.5	17.0	56.0
3.494000	39.2	Off	N	19.7	16.8	56.0
4.318000	38.0	Off	N	19.8	18.0	56.0
5.094000	37.7	Off	N	19.8	22.3	60.0



Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + LAN Link		



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	23.2	Off	N	19.6	32.8	56.0
0.526000	33.8	Off	N	19.6	12.2	46.0
0.646000	26.0	Off	N	19.6	20.0	46.0
0.718000	39.0	Off	N	19.6	7.0	46.0
0.766000	38.4	Off	N	19.6	7.6	46.0
0.878000	30.2	Off	N	19.6	15.8	46.0
1.070000	32.3	Off	N	19.6	13.7	46.0
1.590000	38.1	Off	N	19.7	7.9	46.0
2.342000	30.1	Off	N	18.8	15.9	46.0
2.870000	31.6	Off	N	19.5	14.4	46.0
3.494000	32.0	Off	N	19.7	14.0	46.0
4.318000	29.9	Off	N	19.8	16.1	46.0
5.094000	29.0	Off	N	19.8	21.0	50.0

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.

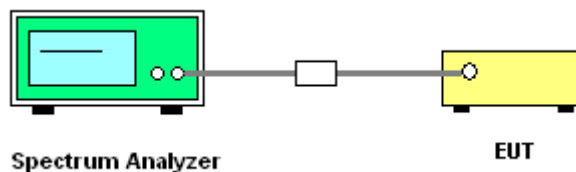
3.6.2 Measuring Instruments

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

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = $G_{ANT} + \text{Array Gain}$, 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.

	Ant 1	Ant 2	DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band II	2.95	2.95	2.95	5.96	0.00	0.00
Band III	3.07	3.07	3.07	6.08	0.00	0.08

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	13100030SNO3 1	9kHz~6GHz	Sep. 21, 2016	Nov. 28, 2016 ~ Dec. 22, 2016	Sep. 20, 2017	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 17, 2016	Nov. 28, 2016 ~ Dec. 22, 2016	Jun. 16, 2017	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 11, 2016	Nov. 28, 2016 ~ Dec. 22, 2016	Jul. 10, 2017	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 22, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Oct. 22, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Oct. 22, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Nov. 09, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N06 02	30MHz~1GHz	Oct. 15, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 07, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Oct. 06, 2017	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Oct. 19, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Nov. 09, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 12, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Oct. 11, 2017	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 01, 2016 ~ Dec. 28, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Dec. 01, 2016 ~ Dec. 28, 2016	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Feb. 14, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Nov. 07, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 20, 2016	Dec. 01, 2016 ~ Dec. 28, 2016	Jan. 19, 2017	Radiation (03CH11-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

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

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2016/11/28~2016/12/22	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	17.80	17.65	32.95	30.80	23.47		29.47		23.98		
11a	6Mbps	2	60	5300	17.65	17.70	33.45	32.45	23.47		29.47		23.98		
11a	6Mbps	2	64	5320	17.80	17.70	33.60	31.65	23.48		29.48		23.98		
VHT20	MCS0	2	52	5260	18.60	18.50	39.00	37.75	23.67		29.67		23.98		
VHT20	MCS0	2	60	5300	18.75	18.50	39.45	37.15	23.67		29.67		23.98		
VHT20	MCS0	2	64	5320	18.60	18.40	37.20	37.65	23.65		29.65		23.98		
VHT40	MCS0	2	54	5270	37.00	36.80	70.92	72.09	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.30	36.40	41.22	41.58	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	74.88	75.12	81.92	81.60	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	18.40	18.20	21.31	23.98	2.95		Pass	
11a	6Mbps	2	60	5300	18.70	18.50	21.61	23.98	2.95		Pass	
11a	6Mbps	2	64	5320	18.50	17.40	21.00	23.98	2.95		Pass	
VHT20	MCS0	2	52	5260	18.70	18.60	21.66	23.98	2.95		Pass	
VHT20	MCS0	2	60	5300	18.70	18.10	21.42	23.98	2.95		Pass	
VHT20	MCS0	2	64	5320	17.90	17.50	20.71	23.98	2.95		Pass	
VHT40	MCS0	2	54	5270	20.90	20.90	23.91	23.98	2.95		Pass	
VHT40	MCS0	2	62	5310	17.70	17.60	20.66	23.98	2.95		Pass	
VHT80	MCS0	2	58	5290	16.00	15.20	18.63	23.98	2.95		Pass	

TEST RESULTS DATA
Power Spectral Density

Band II												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260			10.46	11.00	5.96		Pass	
11a	6Mbps	2	60	5300			10.51	11.00	5.96		Pass	
11a	6Mbps	2	64	5320			10.23	11.00	5.96		Pass	
VHT20	MCS0	2	52	5260			10.58	11.00	5.96		Pass	
VHT20	MCS0	2	60	5300			10.26	11.00	5.96		Pass	
VHT20	MCS0	2	64	5320			8.73	11.00	5.96		Pass	
VHT40	MCS0	2	54	5270			7.16	11.00	5.96		Pass	
VHT40	MCS0	2	62	5310			4.35	11.00	5.96		Pass	
VHT80	MCS0	2	58	5290			0.75	11.00	5.96		Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	17.80	17.90	33.35	33.05	23.50		29.50		23.98		
11a	6Mbps	2	116	5580	17.65	17.40	33.00	30.50	23.41		29.41		23.98		
11a	6Mbps	2	140	5700	18.10	17.45	34.80	26.20	23.42		29.42		23.98		
VHT20	MCS0	2	100	5500	19.05	18.65	39.60	39.60	23.71		29.71		23.98		
VHT20	MCS0	2	116	5580	18.60	18.50	39.05	37.10	23.67		29.67		23.98		
VHT20	MCS0	2	140	5700	19.80	18.25	42.70	21.70	23.61		29.61		23.98		
VHT40	MCS0	2	102	5510	36.40	36.40	52.74	53.10	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.70	36.30	70.02	41.85	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	37.30	37.40	75.96	77.13	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.12	75.00	80.96	81.60	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	18.50	18.50	21.51	23.98		3.07	Pass	
11a	6Mbps	2	116	5580	18.30	17.40	20.88	23.98		3.07	Pass	
11a	6Mbps	2	140	5700	19.00	18.90	21.96	23.98		3.07	Pass	
VHT20	MCS0	2	100	5500	18.50	18.60	21.56	23.98		3.07	Pass	
VHT20	MCS0	2	116	5580	18.40	17.90	21.17	23.98		3.07	Pass	
VHT20	MCS0	2	140	5700	19.80	19.10	22.47	23.98		3.07	Pass	
VHT40	MCS0	2	102	5510	18.90	18.80	21.86	23.98		3.07	Pass	
VHT40	MCS0	2	110	5550	18.90	19.10	22.01	23.98		3.07	Pass	
VHT40	MCS0	2	134	5670	20.80	20.60	23.71	23.98		3.07	Pass	
VHT80	MCS0	2	106	5530	15.50	15.20	18.36	23.98		3.07	Pass	

TEST RESULTS DATA
Power Spectral Density

Band III												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500			10.88	10.92	6.08		Pass	
11a	6Mbps	2	116	5580			10.55	10.92	6.08		Pass	
11a	6Mbps	2	140	5700			10.35	10.92	6.08		Pass	
VHT20	MCS0	2	100	5500			10.74	10.92	6.08		Pass	
VHT20	MCS0	2	116	5580			10.79	10.92	6.08		Pass	
VHT20	MCS0	2	140	5700			10.76	10.92	6.08		Pass	
VHT40	MCS0	2	102	5510			5.43	10.92	6.08		Pass	
VHT40	MCS0	2	110	5550			8.38	10.92	6.08		Pass	
VHT40	MCS0	2	134	5670			7.70	10.92	6.08		Pass	
VHT80	MCS0	2	106	5530			2.37	10.92	6.08		Pass	

TEST RESULTS DATA
Frequency Stability

Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	100	
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	20	240	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	220	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	-30	220	
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	50	220	

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	100	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	240	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	220	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	-30	220	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	50	220	



Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	Temperature :	20~23°C
		Relative Humidity :	58~63%

Band 2 - 5250~5350MHz

WiFi 802.11a (Band Edge @ 3m)

WiFi Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5032.5	51.65	-22.35	74	41.42	32.05	11.22	33.04	104	183	P	H
		5110.5	42.55	-11.45	54	32.24	32.16	11.19	33.04	104	183	A	H
	*	5260	107.81	-	-	97.28	32.37	11.19	33.03	104	183	P	H
	*	5260	100.6	-	-	90.07	32.37	11.19	33.03	104	183	A	H
		5388.72	50.83	-23.17	74	40	32.54	11.31	33.02	104	183	P	H
		5372.4	42.2	-11.8	54	31.44	32.51	11.28	33.03	104	183	A	H
		5126.88	53.7	-20.3	74	43.35	32.19	11.19	33.03	204	24	P	V
		5132.86	45.59	-8.41	54	35.24	32.19	11.19	33.03	204	24	A	V
	*	5260	117.89	-	-	107.36	32.37	11.19	33.03	204	24	P	V
	*	5260	108.78	-	-	98.25	32.37	11.19	33.03	204	24	A	V
		5394.48	52.99	-21.01	74	42.16	32.54	11.31	33.02	204	24	P	V
		5355.6	44.9	-9.1	54	34.16	32.49	11.28	33.03	204	24	A	V
802.11a CH 60 5300MHz		5131.04	51.99	-22.01	74	41.64	32.19	11.19	33.03	224	247	P	H
		5080.86	42.58	-11.42	54	32.29	32.12	11.21	33.04	224	247	A	H
	*	5300	109.44	-	-	98.83	32.42	11.22	33.03	224	247	P	H
	*	5300	102.36	-	-	91.75	32.42	11.22	33.03	224	247	A	H
		5445.6	52.4	-21.6	74	41.45	32.63	11.34	33.02	224	247	P	H
		5352.24	43.37	-10.63	54	32.63	32.49	11.28	33.03	224	247	A	H
		5121.16	52.68	-21.32	74	42.36	32.16	11.19	33.03	185	22	P	V
		5142.48	45.12	-8.88	54	34.76	32.21	11.18	33.03	185	22	A	V
	*	5300	119.25	-	-	108.64	32.42	11.22	33.03	185	22	P	V
	*	5300	111.25	-	-	100.64	32.42	11.22	33.03	185	22	A	V
		5350.08	55.77	-18.23	74	45.03	32.49	11.28	33.03	185	22	P	V
		5352.24	47.47	-6.53	54	36.73	32.49	11.28	33.03	185	22	A	V



802.11a CH 64 5320MHz	*	5320	110.54	-	-	99.88	32.44	11.25	33.03	212	246	P	H
	*	5320	102.71	-	-	92.05	32.44	11.25	33.03	212	246	A	H
		5350.72	59.17	-14.83	74	48.43	32.49	11.28	33.03	212	246	P	H
		5350.08	49.77	-4.23	54	39.03	32.49	11.28	33.03	212	246	A	H
													H
													H
	*	5320	118.12	-	-	107.46	32.44	11.25	33.03	214	21	P	V
	*	5320	109.71	-	-	99.05	32.44	11.25	33.03	214	21	A	V
		5351.04	64.68	-9.32	74	53.94	32.49	11.28	33.03	214	21	P	V
		5350.08	53.73	-0.27	54	42.99	32.49	11.28	33.03	214	21	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	42.66	-31.34	74	38.78	39.99	15.13	51.24	100	0	P	H
		15780	40.91	-33.09	74	36.15	38.26	18.3	51.8	100	0	P	H
													H
													H
		10520	42.27	-31.73	74	38.39	39.99	15.13	51.24	100	0	P	V
		15780	40.91	-33.09	74	36.15	38.26	18.3	51.8	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	40.98	-33.02	74	37.08	39.92	15.19	51.21	100	0	P	H
		15900	40.72	-33.28	74	35.87	38.28	18.37	51.8	100	0	P	H
													H
													H
		10600	41	-33	74	37.1	39.92	15.19	51.21	100	0	P	V
		15900	40.39	-33.61	74	35.54	38.28	18.37	51.8	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	41.1	-32.9	74	37.18	39.89	15.22	51.19	100	0	P	H
		15960	40.11	-33.89	74	35.2	38.29	18.42	51.8	100	0	P	H
													H
													H
		10640	40.95	-33.05	74	37.03	39.89	15.22	51.19	100	0	P	V
		15960	40.47	-33.53	74	35.56	38.29	18.42	51.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 52 5260MHz		5059.54	50.98	-23.02	74	40.71	32.09	11.22	33.04	103	183	P	H
		5075.14	42.64	-11.36	54	32.35	32.12	11.21	33.04	103	183	A	H
	*	5260	107.92	-	-	97.39	32.37	11.19	33.03	103	183	P	H
	*	5260	99.69	-	-	89.16	32.37	11.19	33.03	103	183	A	H
		5369.04	51.5	-22.5	74	40.74	32.51	11.28	33.03	103	183	P	H
		5369.04	42.05	-11.95	54	31.29	32.51	11.28	33.03	103	183	A	H
		5146.64	54.21	-19.79	74	43.85	32.21	11.18	33.03	220	19	P	V
		5149.5	45.92	-8.08	54	35.56	32.21	11.18	33.03	220	19	A	V
	*	5260	117.9	-	-	107.37	32.37	11.19	33.03	220	19	P	V
	*	5260	110.51	-	-	99.98	32.37	11.19	33.03	220	19	A	V
		5358.48	54.2	-19.8	74	43.46	32.49	11.28	33.03	220	19	P	V
		5350.8	45.41	-8.59	54	34.67	32.49	11.28	33.03	220	19	A	V
802.11ac VHT20 CH 60 5300MHz		5140.66	50.94	-23.06	74	40.58	32.21	11.18	33.03	213	243	P	H
		5094.64	42.57	-11.43	54	32.26	32.14	11.21	33.04	213	243	A	H
	*	5300	110.78	-	-	100.17	32.42	11.22	33.03	213	243	P	H
	*	5300	103.65	-	-	93.04	32.42	11.22	33.03	213	243	A	H
		5380.56	51.45	-22.55	74	40.62	32.54	11.31	33.02	213	243	P	H
		5356.08	43.47	-10.53	54	32.73	32.49	11.28	33.03	213	243	A	H
		5112.32	53.31	-20.69	74	43	32.16	11.19	33.04	212	21	P	V
		5145.34	45.39	-8.61	54	35.03	32.21	11.18	33.03	212	21	A	V
	*	5300	118.15	-	-	107.54	32.42	11.22	33.03	212	21	P	V
	*	5300	110.13	-	-	99.52	32.42	11.22	33.03	212	21	A	V
	5362.08	55.81	-18.19	74	45.05	32.51	11.28	33.03	212	21	P	V	
	5351.04	47.52	-6.48	54	36.78	32.49	11.28	33.03	212	21	A	V	



802.11ac VHT20 CH 64 5320MHz	*	5320	110.46	-	-	99.8	32.44	11.25	33.03	211	245	P	H
	*	5320	101.59	-	-	90.93	32.44	11.25	33.03	211	245	A	H
		5350.4	57.11	-16.89	74	46.37	32.49	11.28	33.03	211	245	P	H
		5350.08	48.16	-5.84	54	37.42	32.49	11.28	33.03	211	245	A	H
													H
													H
	*	5320	118.1	-	-	107.44	32.44	11.25	33.03	213	23	P	V
	*	5320	109.7	-	-	99.04	32.44	11.25	33.03	213	23	A	V
		5350.08	66.67	-7.33	74	55.93	32.49	11.28	33.03	213	23	P	V
		5350.56	53.5	-0.5	54	42.76	32.49	11.28	33.03	213	23	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ac VHT20 CH 52 5260MHz		10520	41.14	-32.86	74	37.26	39.99	15.13	51.24	100	0	P	H	
		15780	40.65	-33.35	74	35.89	38.26	18.3	51.8	100	0	P	H	
													H	
													H	
			10520	41.02	-32.98	74	37.14	39.99	15.13	51.24	100	0	P	V
			15780	40.46	-33.54	74	35.7	38.26	18.3	51.8	100	0	P	V
														V
802.11ac VHT20 CH 60 5300MHz		10600	40.35	-33.65	74	36.45	39.92	15.19	51.21	100	0	P	H	
		15900	40.75	-33.25	74	35.9	38.28	18.37	51.8	100	0	P	H	
													H	
													H	
			10600	40.62	-33.38	74	36.72	39.92	15.19	51.21	100	0	P	V
			15900	39.78	-34.22	74	34.93	38.28	18.37	51.8	100	0	P	V
														V
802.11ac VHT20 CH 64 5320MHz		10640	42.01	-31.99	74	38.09	39.89	15.22	51.19	100	0	P	H	
		15960	40.37	-33.63	74	35.46	38.29	18.42	51.8	100	0	P	H	
													H	
													H	
			10640	41.94	-32.06	74	38.02	39.89	15.22	51.19	100	0	P	V
			15960	40.7	-33.3	74	35.79	38.29	18.42	51.8	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5012.22	50.67	-23.33	74	40.45	32.02	11.24	33.04	100	182	P	H
		5117.26	43.46	-10.54	54	33.15	32.16	11.19	33.04	100	182	A	H
	*	5270	105.03	-	-	94.47	32.37	11.22	33.03	100	182	P	H
	*	5270	97.84	-	-	87.28	32.37	11.22	33.03	100	182	A	H
		5353.2	50.7	-23.3	74	39.96	32.49	11.28	33.03	100	182	P	H
		5364	43.1	-10.9	54	32.34	32.51	11.28	33.03	100	182	A	H
		5150	54.74	-19.26	74	44.38	32.21	11.18	33.03	228	23	P	V
		5144.04	47.08	-6.92	54	36.72	32.21	11.18	33.03	228	23	A	V
	*	5270	114.84	-	-	104.28	32.37	11.22	33.03	228	23	P	V
	*	5270	106.66	-	-	96.1	32.37	11.22	33.03	228	23	A	V
		5351.52	54.37	-19.63	74	43.63	32.49	11.28	33.03	228	23	P	V
		5352.24	47.18	-6.82	54	36.44	32.49	11.28	33.03	228	23	A	V
802.11ac VHT40 CH 62 5310MHz		5143	50.43	-23.57	74	40.07	32.21	11.18	33.03	217	243	P	H
		5088.14	42.26	-11.74	54	31.97	32.12	11.21	33.04	217	243	A	H
	*	5310	102.9	-	-	92.24	32.44	11.25	33.03	217	243	P	H
	*	5310	93.42	-	-	82.76	32.44	11.25	33.03	217	243	A	H
		5351.52	54.04	-19.96	74	43.3	32.49	11.28	33.03	217	243	P	H
		5350.08	45.86	-8.14	54	35.12	32.49	11.28	33.03	217	243	A	H
		5103.74	53.93	-20.07	74	43.64	32.14	11.19	33.04	210	22	P	V
		5131.82	44.16	-9.84	54	33.81	32.19	11.19	33.03	210	22	A	V
	*	5310	112.72	-	-	102.06	32.44	11.25	33.03	210	22	P	V
	*	5310	103.6	-	-	92.94	32.44	11.25	33.03	210	22	A	V
	5351.04	61.63	-12.37	74	50.89	32.49	11.28	33.03	210	22	P	V	
	5350.32	53.38	-0.62	54	42.64	32.49	11.28	33.03	210	22	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		10540	40.78	-33.22	74	36.9	39.97	15.13	51.22	100	0	P	H
		15810	41.01	-32.99	74	36.22	38.26	18.33	51.8	100	0	P	H
													H
													H
		4774	58.25	-15.75	74	49.09	31.6	10.64	33.08	202	53	P	V
		4774	48.44	-5.56	54	39.28	31.6	10.64	33.08	202	53	A	V
		10540	40.8	-33.2	74	36.92	39.97	15.13	51.22	100	0	P	V
		15810	40.36	-33.64	74	35.57	38.26	18.33	51.8	100	0	P	V
802.11ac VHT40 CH 62 5310MHz		10620	40.34	-33.66	74	36.44	39.9	15.19	51.19	100	0	P	H
		15930	39.85	-34.15	74	34.96	38.29	18.4	51.8	100	0	P	H
													H
													H
		4846	56.11	-17.89	74	46.69	31.72	10.77	33.07	210	22	P	V
		4846	47.8	-6.2	54	38.38	31.72	10.77	33.07	210	22	A	V
		10620	40.46	-33.54	74	36.56	39.9	15.19	51.19	100	0	P	V
		15930	40.43	-33.57	74	35.54	38.29	18.4	51.8	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1+2, 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). Rows include test results for 802.11ac VHT80 CH 58 5290MHz and a Remark section.



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ac VHT80 CH 58 5290MHz		10580	40.25	-33.75	74	36.37	39.93	15.16	51.21	100	0	P	H	
		15870	40.63	-33.37	74	35.78	38.28	18.37	51.8	100	0	P	H	
													H	
													H	
			4846	58.61	-15.39	74	49.19	31.72	10.77	33.07	183	24	P	V
			4846	50.47	-3.53	54	41.05	31.72	10.77	33.07	183	24	A	V
			10580	41.23	-32.77	74	37.35	39.93	15.16	51.21	100	0	P	V
			15870	39.73	-34.27	74	34.88	38.28	18.37	51.8	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 100 5500MHz		5469.52	53.37	-20.63	74	42.36	32.65	11.38	33.02	215	245	P	H	
		5470	44.84	-9.16	54	33.83	32.65	11.38	33.02	215	245	A	H	
	*	5500	107.98	-	-	96.92	32.7	11.38	33.02	215	245	P	H	
	*	5500	100.78	-	-	89.72	32.7	11.38	33.02	215	245	A	H	
													H	
													H	
			5466.48	61.27	-12.73	74	50.26	32.65	11.38	33.02	213	22	P	V
			5470	52.08	-1.92	54	41.07	32.65	11.38	33.02	213	22	A	V
	*		5500	117.65	-	-	106.59	32.7	11.38	33.02	213	22	P	V
	*		5500	109.91	-	-	98.85	32.7	11.38	33.02	213	22	A	V
													V	
													V	
802.11a CH 116 5580MHz		5405.2	51.94	-22.06	74	41.09	32.56	11.31	33.02	202	260	P	H	
		5469.52	41.54	-12.46	54	30.53	32.65	11.38	33.02	202	260	A	H	
	*	5580	108.15	-	-	96.98	32.8	11.44	33.07	202	260	P	H	
	*	5580	99.48	-	-	88.31	32.8	11.44	33.07	202	260	A	H	
			5751.875	51.44	-22.56	74	40.07	33.06	11.46	33.15	202	260	P	H
			5743.475	41.4	-12.6	54	30.05	33.04	11.46	33.15	202	260	A	H
			5463.52	54.56	-19.44	74	43.55	32.65	11.38	33.02	229	43	P	V
			5468.08	44.86	-9.14	54	33.85	32.65	11.38	33.02	229	43	A	V
	*		5580	118.59	-	-	107.42	32.8	11.44	33.07	229	43	P	V
	*		5580	108.48	-	-	97.31	32.8	11.44	33.07	229	43	A	V
			5727.9	51.72	-22.28	74	40.38	33.01	11.46	33.13	229	43	P	V
			5759.925	44.58	-9.42	54	33.22	33.06	11.46	33.16	229	43	A	V



802.11a CH 140 5700MHz	*	5700	105.06	-	-	93.74	32.97	11.47	33.12	208	304	P	H
	*	5700	96.83	-	-	85.51	32.97	11.47	33.12	208	304	A	H
		5725.4	61.81	-6.39	68.2	50.47	33.01	11.46	33.13	208	304	P	H
													H
													H
													H
	*	5700	116.43	-	-	105.11	32.97	11.47	33.12	195	17	P	V
	*	5700	107.75	-	-	96.43	32.97	11.47	33.12	195	17	A	V
		5725.8	67.92	-0.28	68.2	56.58	33.01	11.46	33.13	195	17	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	43.2	-30.8	74	39.14	39.6	15.49	51.03	100	0	P	H
		16500	42.81	-31.19	74	36.21	39.2	19.27	51.87	100	0	P	H
													H
													H
		11000	43.55	-30.45	74	39.49	39.6	15.49	51.03	100	0	P	V
		16500	42.52	-31.48	74	35.92	39.2	19.27	51.87	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	41.76	-32.24	74	37.81	39.43	15.61	51.09	100	0	P	H
		16740	42.27	-31.73	74	33.95	40.55	19.68	51.91	100	0	P	H
													H
													H
		11160	41.53	-32.47	74	37.58	39.43	15.61	51.09	100	0	P	V
		16740	43.17	-30.83	74	34.85	40.55	19.68	51.91	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	41.65	-32.35	74	37.85	39.2	15.79	51.19	100	0	P	H
		17100	46.51	-21.69	68.2	35.82	42.36	20.3	51.97	100	0	P	H
													H
													H
		11400	41.15	-32.85	74	37.35	39.2	15.79	51.19	100	0	P	V
		17100	45.87	-22.33	68.2	35.18	42.36	20.3	51.97	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ac VHT20 CH 100 5500MHz		5454.96	52.44	-21.56	74	41.49	32.63	11.34	33.02	200	243	P	H	
		5469.04	59.07	-9.13	68.2	48.06	32.65	11.38	33.02	200	243	P	H	
		5459.92	42.72	-11.28	54	31.77	32.63	11.34	33.02	200	243	P	H	
	*	5500	108.18	-	-	97.12	32.7	11.38	33.02	200	243	P	H	
	*	5500	100.67	-	-	89.61	32.7	11.38	33.02	200	243	A	H	
														H
			5459.44	57.18	-16.82	74	46.23	32.63	11.34	33.02	193	20	P	V
			5466.64	66.36	-1.84	68.2	55.35	32.65	11.38	33.02	193	20	P	V
			5459.76	47.23	-6.77	54	36.28	32.63	11.34	33.02	193	20	A	V
	*		5500	117.71	-	-	106.65	32.7	11.38	33.02	193	20	P	V
	*		5500	110.12	-	-	99.06	32.7	11.38	33.02	193	20	A	V
													V	
802.11ac VHT20 CH 116 5580MHz		5468.08	51.51	-22.49	74	40.5	32.65	11.38	33.02	199	243	P	H	
		5467.84	41.63	-12.37	54	30.62	32.65	11.38	33.02	199	243	A	H	
	*	5580	109.71	-	-	98.54	32.8	11.44	33.07	199	243	P	H	
	*	5580	99.54	-	-	88.37	32.8	11.44	33.07	199	243	A	H	
			5760.1	50.08	-23.92	74	38.72	33.06	11.46	33.16	199	243	P	H
			5760.45	41.27	-12.73	54	29.91	33.06	11.46	33.16	199	243	A	H
			5446.96	53.97	-20.03	74	43.02	32.63	11.34	33.02	195	19	P	V
			5469.52	44.45	-9.55	54	33.44	32.65	11.38	33.02	195	19	A	V
	*		5580	118.54	-	-	107.37	32.8	11.44	33.07	195	19	P	V
	*		5580	108.67	-	-	97.5	32.8	11.44	33.07	195	19	A	V
			5750.125	51.38	-22.62	74	40.03	33.04	11.46	33.15	195	19	P	V
		5759.925	44.53	-9.47	54	33.17	33.06	11.46	33.16	195	19	A	V	



802.11ac VHT20 CH 140 5700MHz	*	5700	105.04	-	-	93.72	32.97	11.47	33.12	222	302	P	H
	*	5700	95.91	-	-	84.59	32.97	11.47	33.12	222	302	A	H
		5726.36	59.11	-9.09	68.2	47.77	33.01	11.46	33.13	222	302	P	H
													H
													H
													H
	*	5700	115.59	-	-	104.27	32.97	11.47	33.12	186	16	P	V
	*	5700	105.88	-	-	94.56	32.97	11.47	33.12	186	16	A	V
		5725.8	66.3	-1.9	68.2	54.96	33.01	11.46	33.13	186	16	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ac VHT20 CH 100 5500MHz		11000	41.33	-32.67	74	37.27	39.6	15.49	51.03	100	0	P	H	
		16500	42.81	-25.39	68.2	36.21	39.2	19.27	51.87	100	0	P	H	
													H	
													H	
			11000	41.48	-32.52	74	37.42	39.6	15.49	51.03	100	0	P	V
			16500	41.38	-26.82	68.2	34.78	39.2	19.27	51.87	100	0	P	V
														V
802.11ac VHT20 CH 116 5580MHz		11160	41.01	-32.99	74	37.06	39.43	15.61	51.09	100	0	P	H	
		16740	43.51	-30.49	74	35.19	40.55	19.68	51.91	100	0	P	H	
													H	
													H	
			11160	41.65	-32.35	74	37.7	39.43	15.61	51.09	100	0	P	V
			16740	42.45	-31.55	74	34.13	40.55	19.68	51.91	100	0	P	V
														V
802.11ac VHT20 CH 140 5700MHz		11400	41.83	-32.17	74	38.03	39.2	15.79	51.19	100	0	P	H	
		17100	45.68	-22.52	68.2	34.99	42.36	20.3	51.97	100	0	P	H	
													H	
													H	
			11400	41.59	-32.41	74	37.79	39.2	15.79	51.19	100	0	P	V
			17100	45.33	-22.87	68.2	34.64	42.36	20.3	51.97	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		5458.24	55.51	-18.49	74	44.56	32.63	11.34	33.02	200	240	P	H
		5469.76	58.46	-9.74	68.2	47.45	32.65	11.38	33.02	200	240	P	H
		5459.92	46.4	-7.6	54	35.45	32.63	11.34	33.02	200	240	A	H
	*	5510	103.03	-	-	91.95	32.7	11.41	33.03	200	240	P	H
	*	5510	94.91	-	-	83.83	32.7	11.41	33.03	200	240	A	H
		5749.6	50.48	-17.72	68.2	39.13	33.04	11.46	33.15	200	240	P	H
		5459.2	61.23	-12.77	74	50.28	32.63	11.34	33.02	200	20	P	V
		5466.88	67.96	-0.24	68.2	56.95	32.65	11.38	33.02	200	20	P	V
		5458	52.73	-1.27	54	41.78	32.63	11.34	33.02	200	20	A	V
	*	5510	112.53	-	-	101.45	32.7	11.41	33.03	200	20	P	V
	*	5510	104.2	-	-	93.12	32.7	11.41	33.03	200	20	A	V
		5754.85	51.53	-16.67	68.2	40.16	33.06	11.46	33.15	200	20	P	V
802.11ac VHT40 CH 110 5550MHz		5458.96	50.97	-23.03	74	40.02	32.63	11.34	33.02	102	243	P	H
		5454.88	42.97	-11.03	54	32.02	32.63	11.34	33.02	102	243	P	H
		5550	104.85	-	-	93.69	32.77	11.44	33.05	102	243	P	H
	*	5550	95.83	-	-	84.67	32.77	11.44	33.05	102	243	P	H
	*	5747.5	50.35	-23.65	74	39	33.04	11.46	33.15	102	243	A	H
		5741.725	41.86	-12.14	54	30.51	33.04	11.46	33.15	102	243	P	H
		5468.56	54.79	-19.21	74	43.78	32.65	11.38	33.02	227	30	P	V
		5469.52	46.02	-7.98	54	35.01	32.65	11.38	33.02	227	30	P	V
		5550	110.77	36.77	74	99.61	32.77	11.44	33.05	227	30	P	V
	*	5550	101.26	-	-	90.1	32.77	11.44	33.05	227	30	P	V
*	5729.475	53.04	-	-	41.7	33.01	11.46	33.13	227	30	A	V	
	5759.925	44.56	-9.44	54	33.2	33.06	11.46	33.16	227	30	P	V	



802.11ac VHT40 CH 134 5670MHz		5450.56	51.36	-22.64	74	40.41	32.63	11.34	33.02	100	185	P	H
		5470	50.51	-17.69	68.2	39.5	32.65	11.38	33.02	100	185	P	H
		5458.48	42.3	-11.7	54	31.35	32.63	11.34	33.02	100	185	A	H
	*	5670	106.06	-	-	94.76	32.94	11.47	33.11	100	185	P	H
	*	5670	97.2	-	-	85.9	32.94	11.47	33.11	100	185	A	H
		5727.55	56.71	-11.49	68.2	45.37	33.01	11.46	33.13	100	185	P	H
		5430.4	53.96	-20.04	74	43.03	32.61	11.34	33.02	204	63	P	V
		5463.28	52.98	-15.22	68.2	41.97	32.65	11.38	33.02	204	63	P	V
		5455.6	45.06	-8.94	54	34.11	32.63	11.34	33.02	204	63	A	V
	*	5670	117.62	-	-	106.32	32.94	11.47	33.11	204	63	P	V
	*	5670	109.04	-	-	97.74	32.94	11.47	33.11	204	63	A	V
		5725.45	67.68	-0.52	68.2	56.34	33.01	11.46	33.13	204	63	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		11020	41.5	-32.5	74	37.46	39.58	15.49	51.03	100	0	P	H
		16530	41.49	-26.71	68.2	34.63	39.39	19.34	51.87	100	0	P	H
													H
													H
		5038	62.54	-11.46	74	52.29	32.07	11.22	33.04	200	63	P	V
		5038	53.27	-0.73	54	43.02	32.07	11.22	33.04	200	63	A	V
		11020	42.7	-31.3	74	38.66	39.58	15.49	51.03	100	0	P	V
		16530	42.12	-26.08	68.2	35.26	39.39	19.34	51.87	100	0	P	V
802.11ac VHT40 CH 110 5550MHz		11100	41.65	-32.35	74	37.66	39.5	15.55	51.06	100	0	P	H
		16650	42.74	-25.46	68.2	35.03	40.07	19.54	51.9	100	0	P	H
													H
													H
		5086	61.51	-12.49	74	51.22	32.12	11.21	33.04	219	58	P	V
		5086	53.51	-0.49	54	43.22	32.12	11.21	33.04	219	58	A	V
		11100	40.76	-33.24	74	36.77	39.5	15.55	51.06	100	0	P	V
		16650	42.75	-25.45	68.2	35.04	40.07	19.54	51.9	100	0	P	V
802.11ac VHT40 CH 134 5670MHz		11340	40.72	-33.28	74	36.9	39.27	15.73	51.18	100	0	P	H
		17010	44.75	-23.45	68.2	34.49	42.06	20.16	51.96	100	0	P	H
													H
													H
		5086	62.35	-11.65	74	52.06	32.12	11.21	33.04	196	57	P	V
		5086	53.64	-0.36	54	43.35	32.12	11.21	33.04	196	57	A	V
		11340	40.65	-33.35	74	36.83	39.27	15.73	51.18	100	0	P	V
		17010	44.83	-23.37	68.2	34.57	42.06	20.16	51.96	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

Table with 14 columns: WIFI Ant. 1+2, 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). Rows include test data for 802.11ac VHT80 CH 106 5530MHz and a Remark section.



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ac VHT80 CH 106 5530MHz		11060	41.06	-32.94	74	37.06	39.53	15.52	51.05	100	0	P	H	
		16590	42.49	-25.71	68.2	35.21	39.68	19.48	51.88	100	0	P	H	
													H	
													H	
			5086	63.58	-10.42	74	53.29	32.12	11.21	33.04	210	23	P	V
			5086	53.43	-0.57	54	43.14	32.12	11.21	33.04	210	23	A	V
			11060	41.15	-32.85	74	37.15	39.53	15.52	51.05	100	0	P	V
			16590	41.86	-26.34	68.2	34.58	39.68	19.48	51.88	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz
WIFI 802.11ac VHT40 (LF @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ac VHT40 LF		45.39	21.41	-18.59	40	35.54	17.07	1.29	32.49			P	H	
		98.31	24.64	-18.86	43.5	39.75	15.86	1.51	32.48			P	H	
		173.37	20.06	-23.44	43.5	35.19	15.65	2	32.78			P	H	
		384	37.44	-8.56	46	44.88	21.99	2.91	32.34	314	255	P	H	
		828.5	31.16	-14.84	46	30.16	28.64	4.39	32.03			P	H	
		928.6	33.19	-12.81	46	29.95	30	4.63	31.39			P	H	
													H	
													H	
													H	
													H	
													H	
													H	
			32.7	35.86	-4.14	40	42.92	24.14	1.29	32.49	166	253	P	V
			48.36	33.66	-6.34	40	49.09	15.77	1.29	32.49			P	V
			98.31	25.44	-18.06	43.5	40.55	15.86	1.51	32.48			P	V
			384	33.42	-12.58	46	40.86	21.99	2.91	32.34			P	V
			834.1	31.08	-14.92	46	29.98	28.71	4.39	32			P	V
			923	33.3	-12.7	46	30.26	29.86	4.63	31.45			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	Peak or Average
H/V	Horizontal or Vertical



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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- 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)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- 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)
- 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 C. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	Temperature :	20~23°C
		Relative Humidity :	58~63%

Note symbol

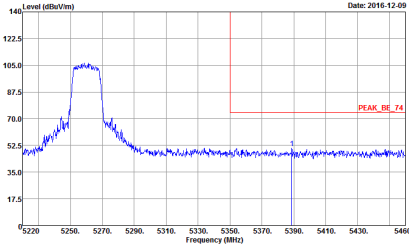
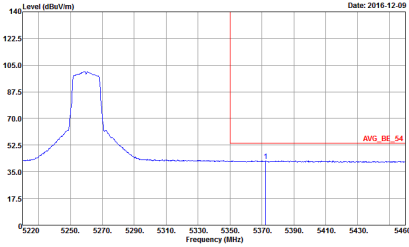
-L	Low channel location
-R	High channel location



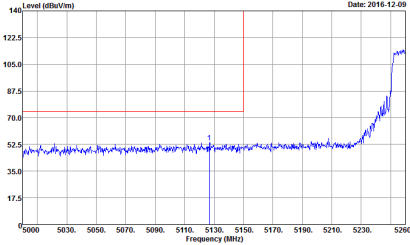
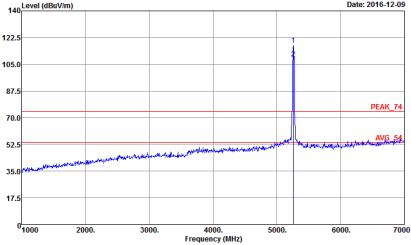
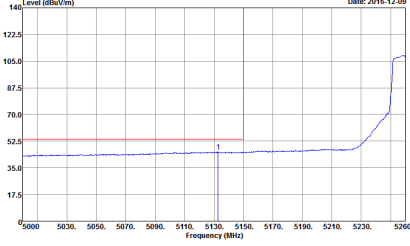
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p> Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank
Avg.	 <p> Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank

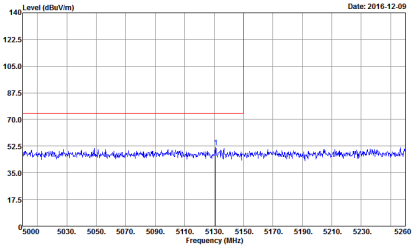
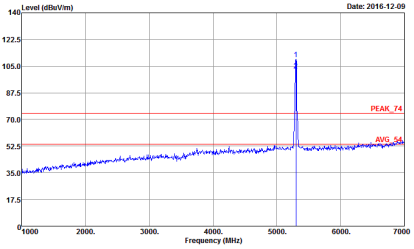
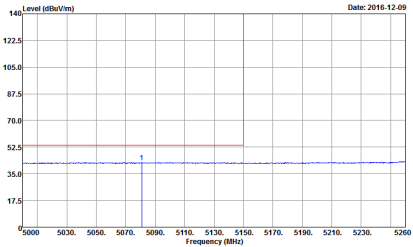


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank

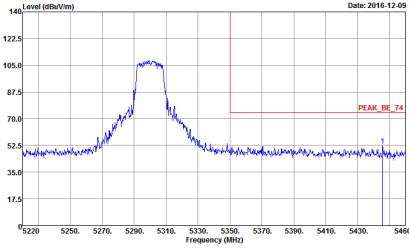
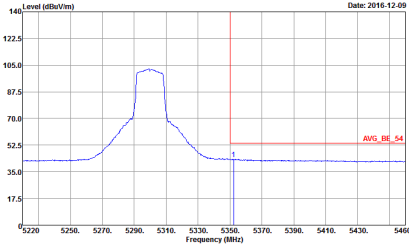


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank

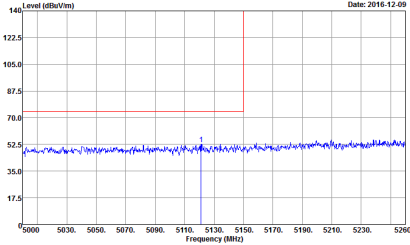
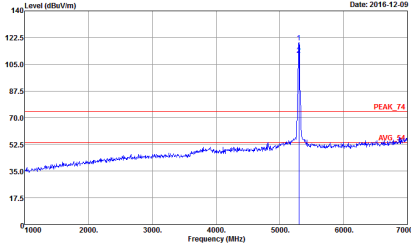
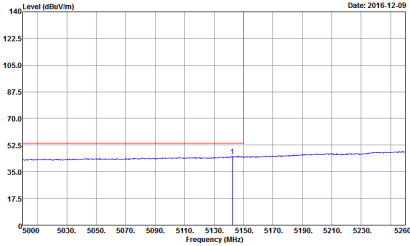


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	Left blank

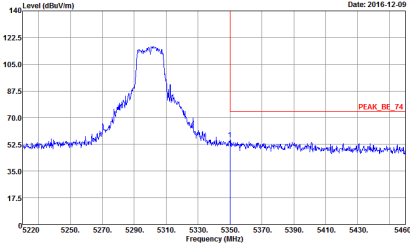
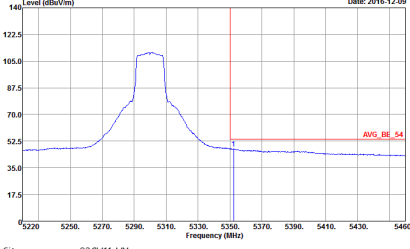


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

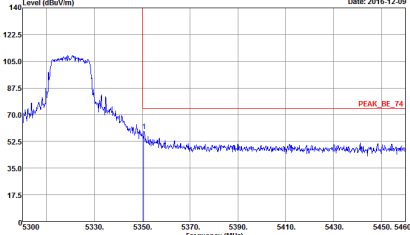
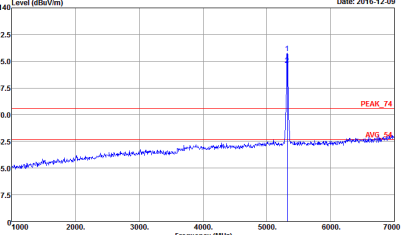
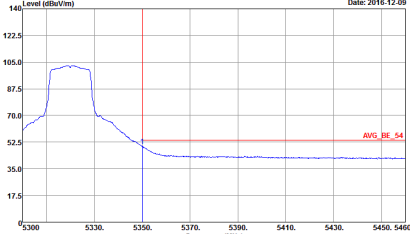


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank

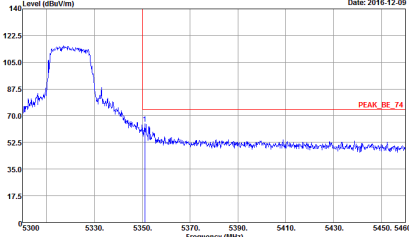
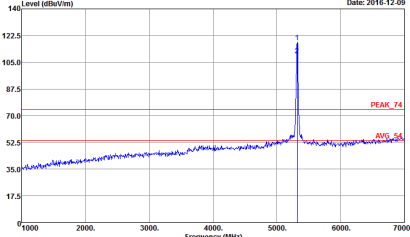
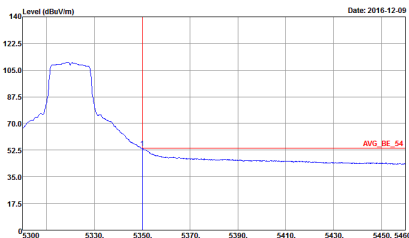


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>



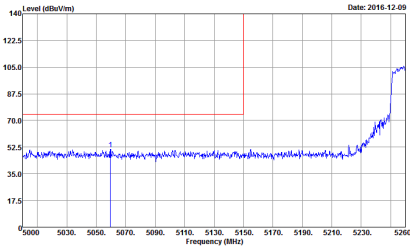
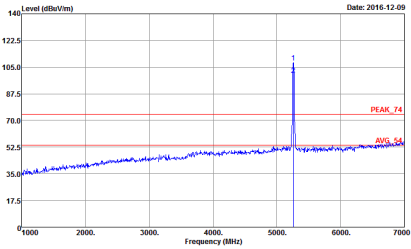
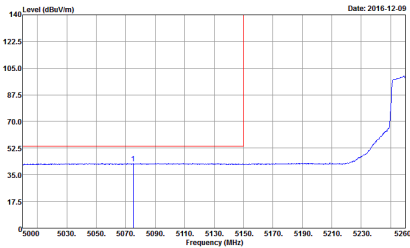
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>	Left blank



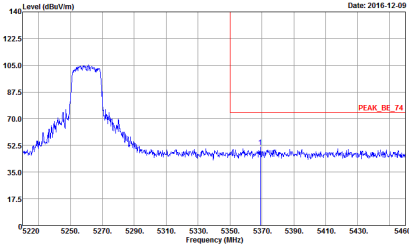
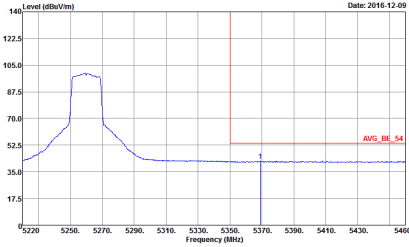
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 1A ANTI Setting : 14</p>	Left blank



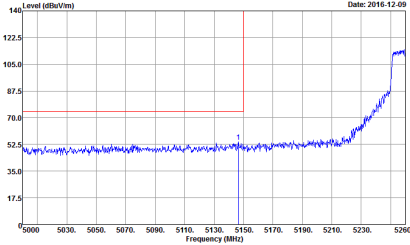
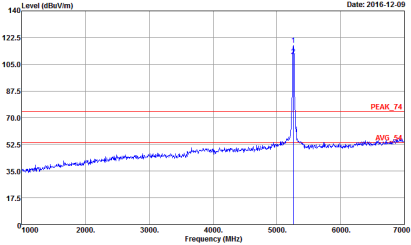
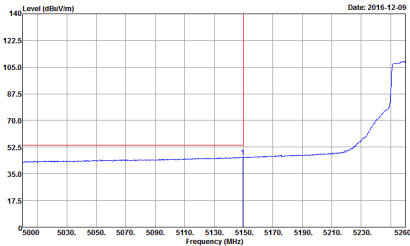
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AV6_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	<p align="center">Left blank</p>

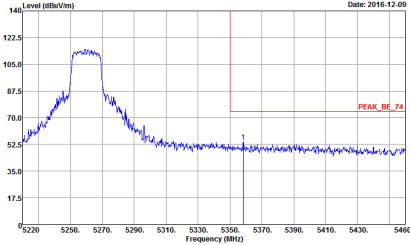
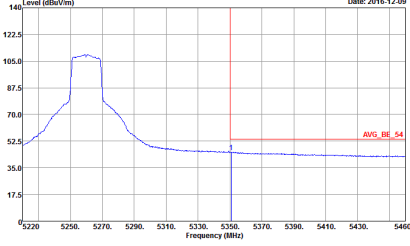


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p> Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank
Avg.	 <p> Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank

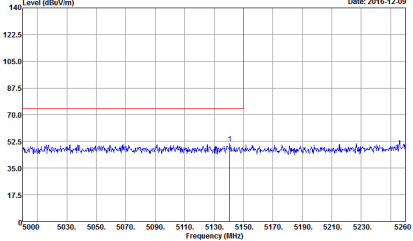
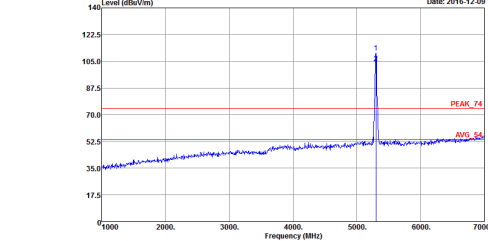
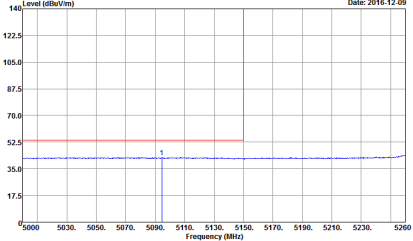


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank

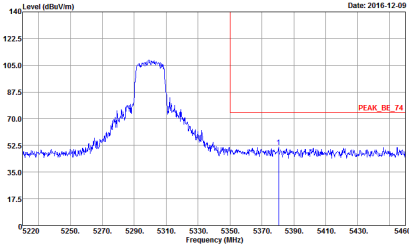
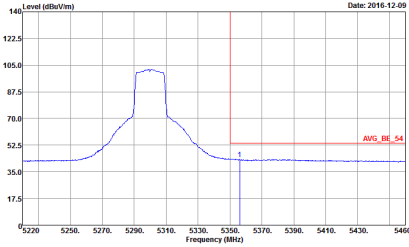


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>

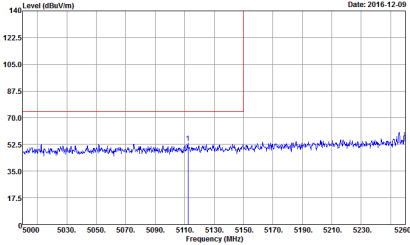
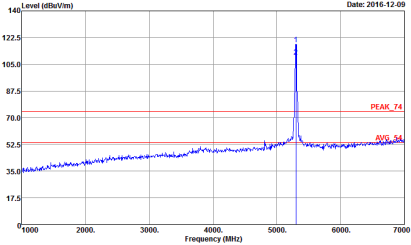
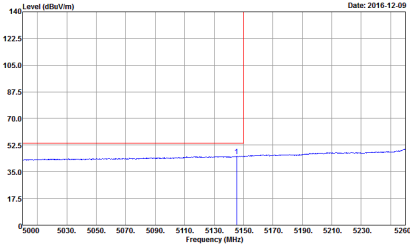


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	Left blank

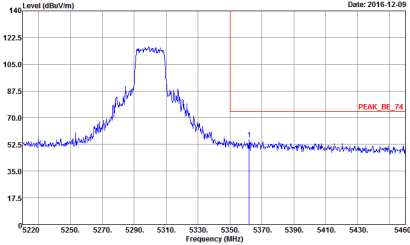
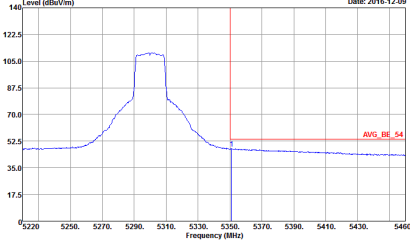


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p data-bbox="347 728 638 795">Date: 2016-12-09 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p data-bbox="347 1406 638 1473">Date: 2016-12-09 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

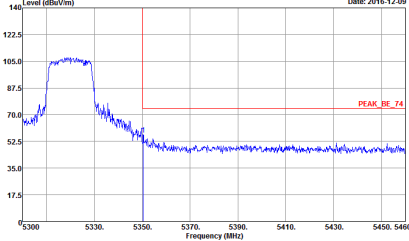
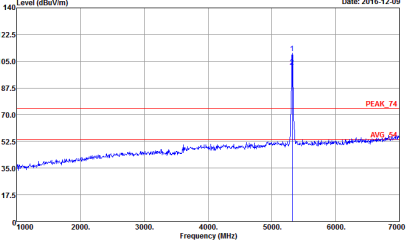
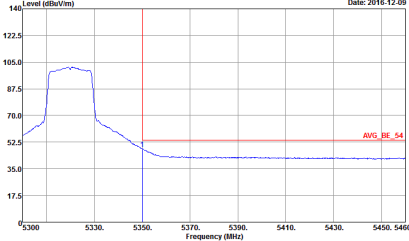


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

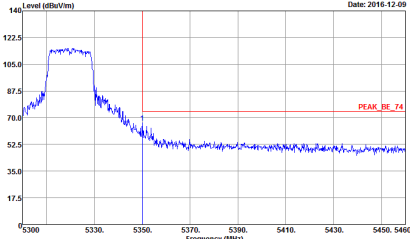
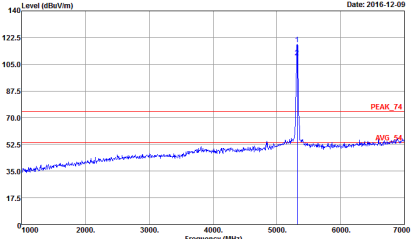
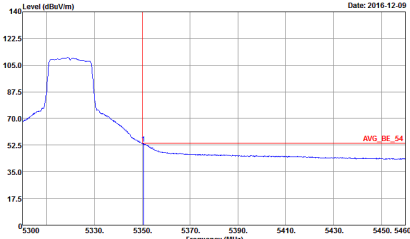


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>	Left blank



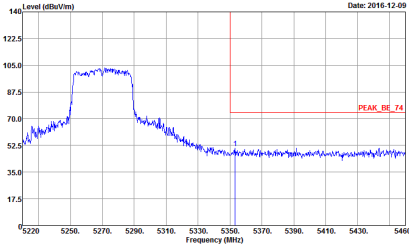
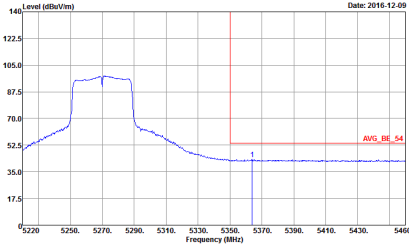
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 17 ANTI Setting : 16</p>	<p>Left blank</p>



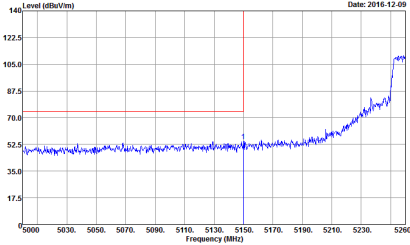
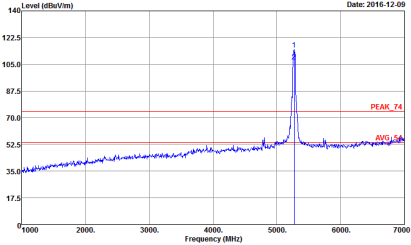
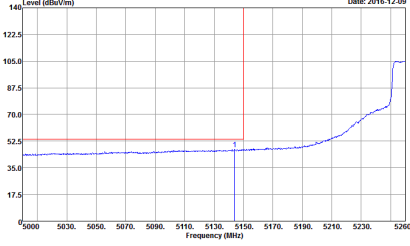
Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

Table with 4 quadrants: (1) Peak Horizontal plot, (2) Peak Fundamental plot, (3) Avg. Horizontal plot, (4) Left blank. Each plot shows Level (dBu/m) vs Frequency (MHz) with associated test parameters.

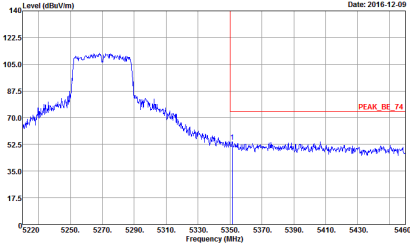
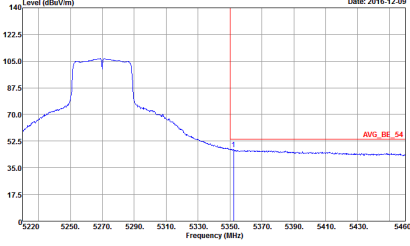


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

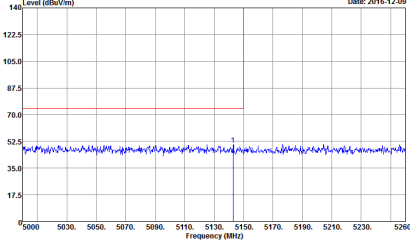
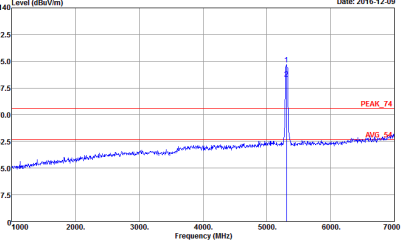
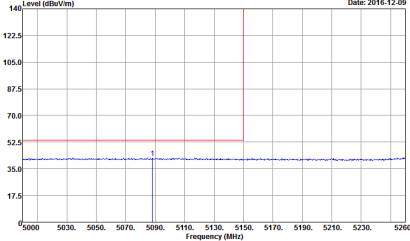


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	Left blank

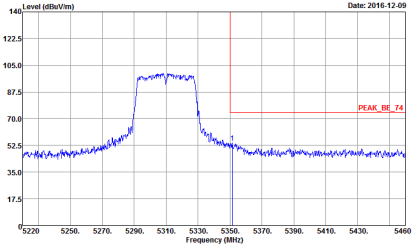
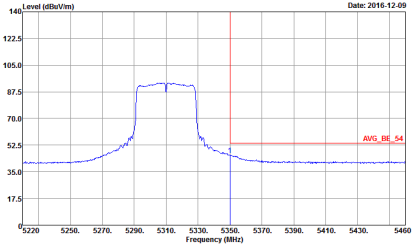


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

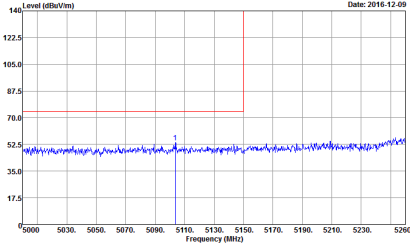
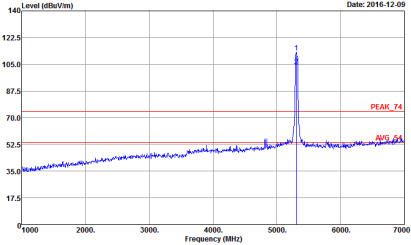
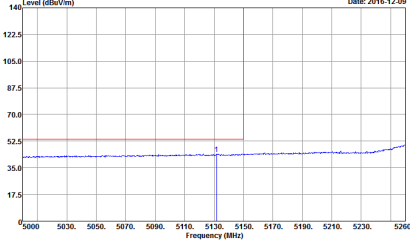


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>	Left blank

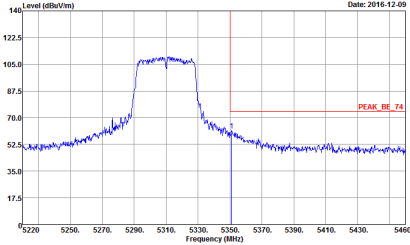
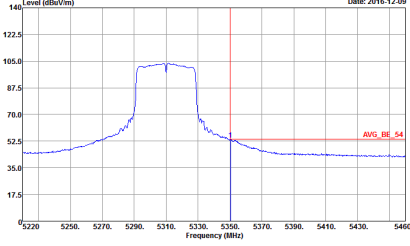


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p> Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10 </p>	<p>Left blank</p>
<p>Avg.</p>	 <p> Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10 </p>	<p>Left blank</p>



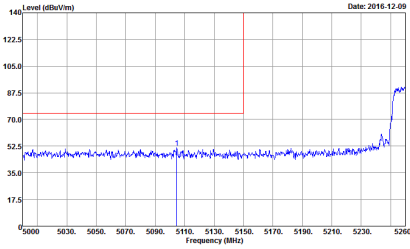
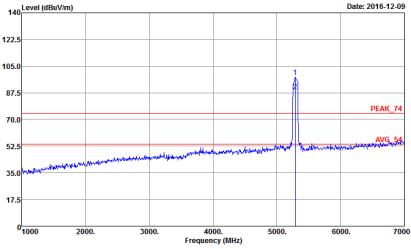
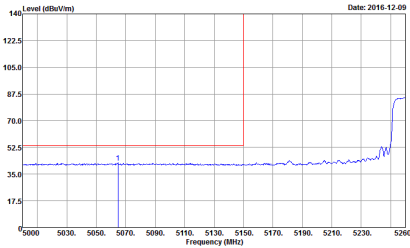
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 10</p>	Left blank



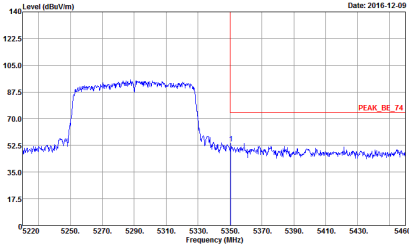
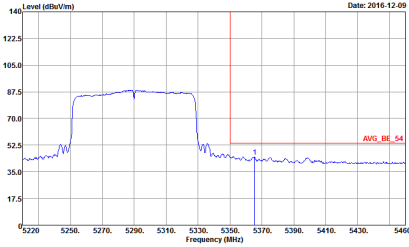
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANT0 Setting : 11 ANT1 Setting : 10</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANT0 Setting : 11 ANT1 Setting : 10</p>	<p>Left blank</p>



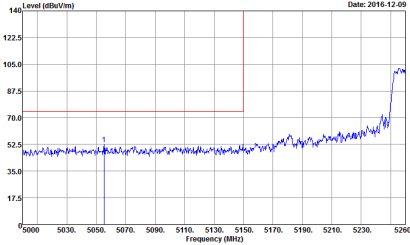
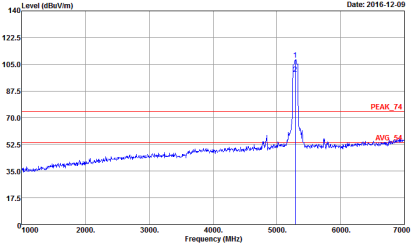
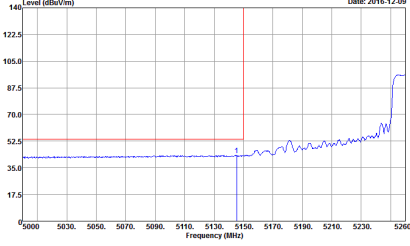
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	<p align="center">Left blank</p>

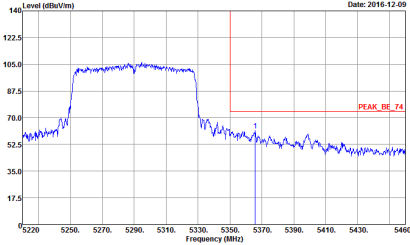
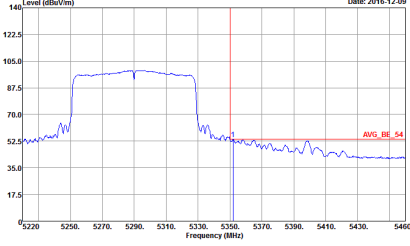


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 ANT0 Setting : 00 ANT1 Setting : 00</p>	Left blank
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 ANT0 Setting : 00 ANT1 Setting : 00</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	Left blank



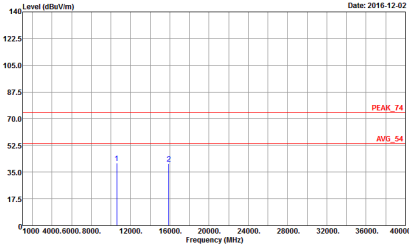
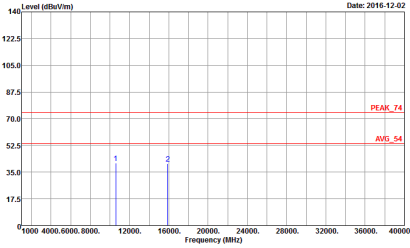
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 00 ANTI Setting : 00</p>	<p>Left blank</p>



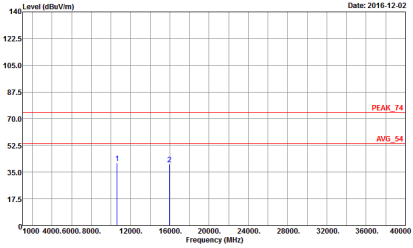
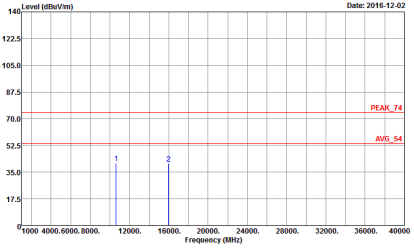
Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 3 columns: WIFI, ANT, and 1+2. The 1+2 column contains two graphs: Horizontal and Vertical. Each graph shows Level (dBuV/m) vs Frequency (MHz) with peaks labeled 1 and 2. Includes metadata like Date: 2016-12-02, Site: 03CH11-FY, and Project: 641813-01.



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



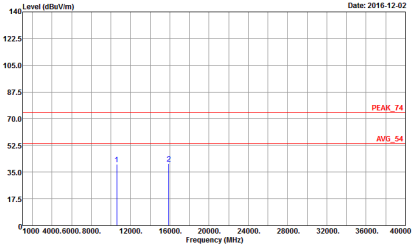
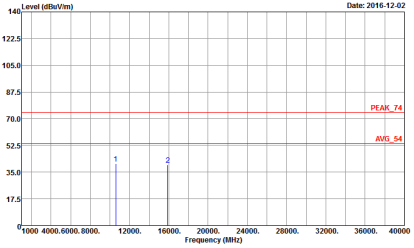
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBm/m) vs Frequency (MHz) with peak and average markers. Includes metadata like Site, Condition, Detector, and Project.



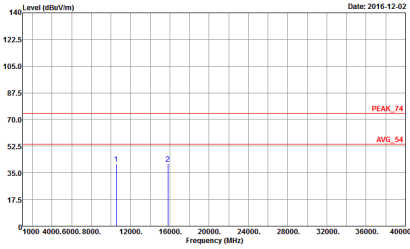
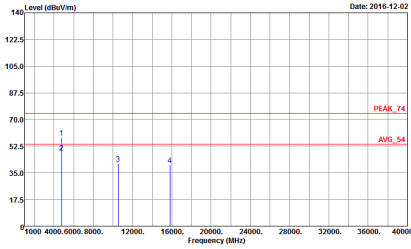
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



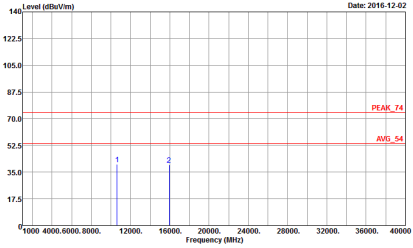
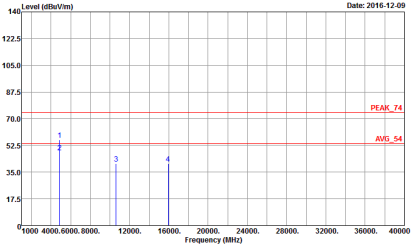
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Horizontal Spectrum Plot (Date: 2016-12-02)</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	<p>Vertical Spectrum Plot (Date: 2016-12-02)</p> <p>Level (dBuV/m) vs Frequency (MHz)</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

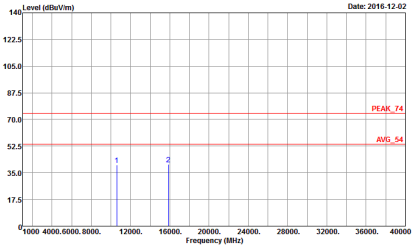
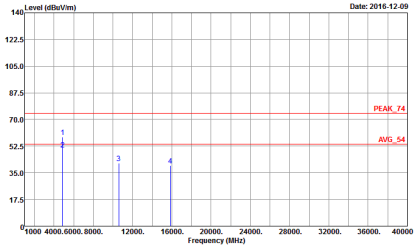
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH54 5270	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : ANTI Setting :</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : ANTI Setting :</p>



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORN_150809 HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : ANT1 Setting :</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : ANT1 Setting :</p>



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

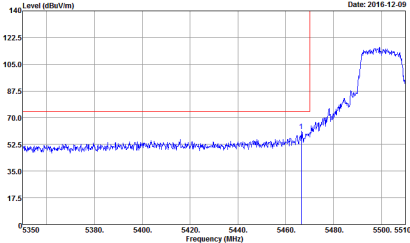
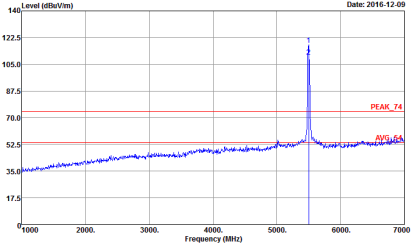
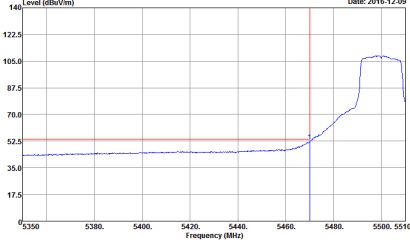
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORN_150809 HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : ANTI Setting :</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : ANTI Setting :</p>



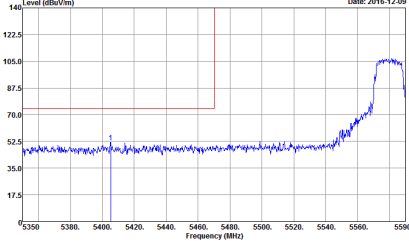
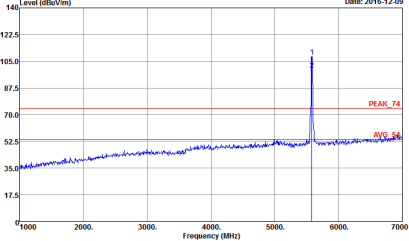
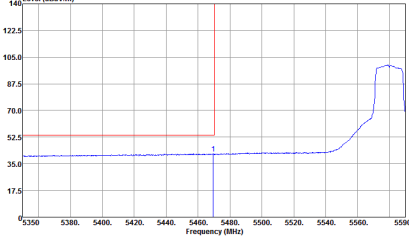
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

Table with 2 columns (Horizontal, Fundamental) and 2 rows (Peak, Avg.). Contains spectral plots and technical details for each measurement.

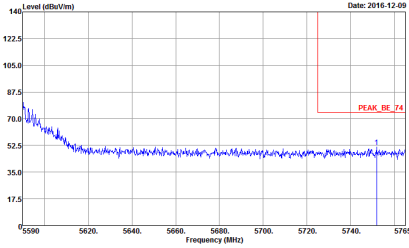
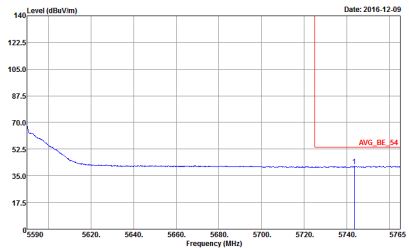


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01</p>	<p>Left blank</p>

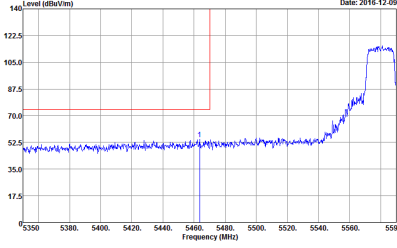
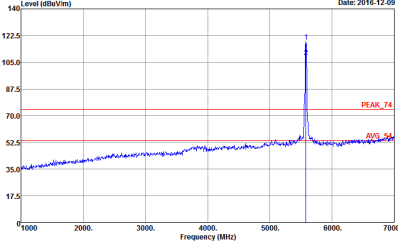
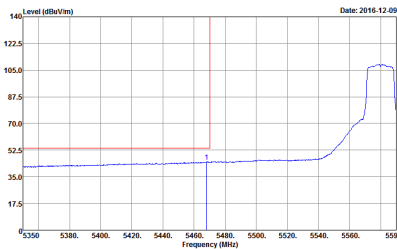


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	Left blank

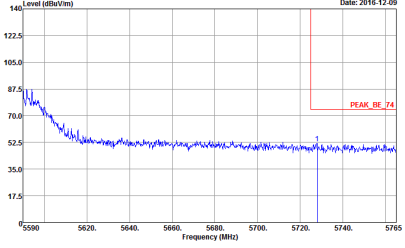
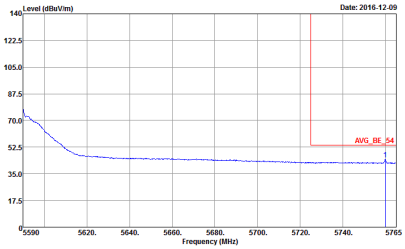


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p> Date: 2016-12-09 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank
Avg.	 <p> Date: 2016-12-09 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank

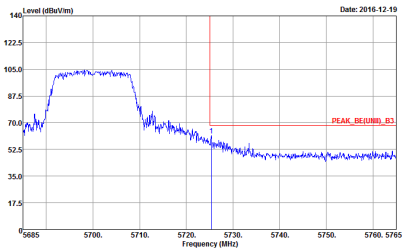
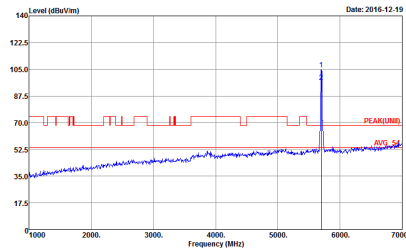


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

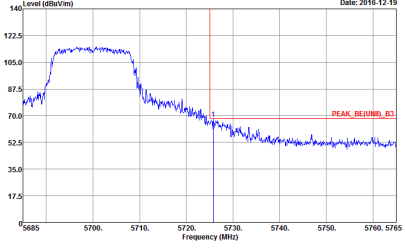
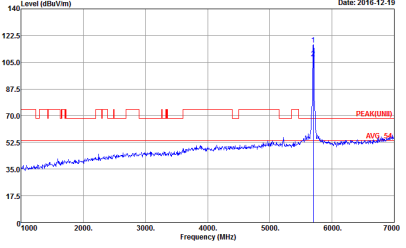


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-09</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	<p>Left blank</p>



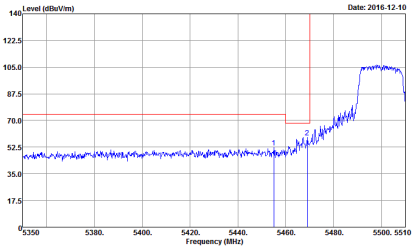
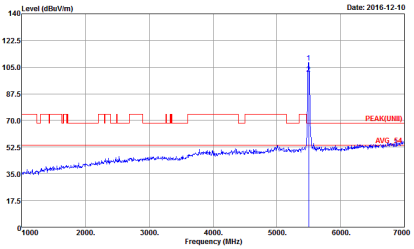
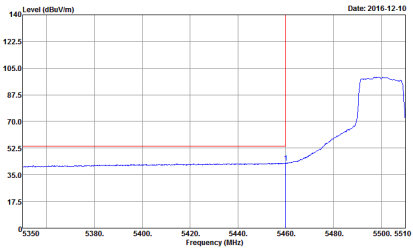
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 <p> Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 14 ANTI Setting : 14 </p>	 <p> Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 14 ANTI Setting : 14 </p>



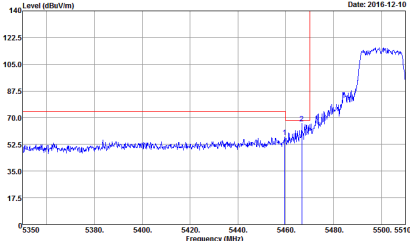
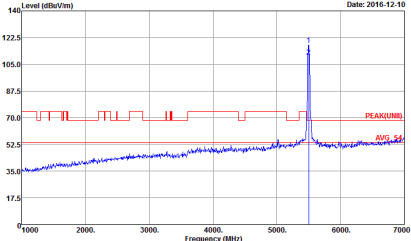
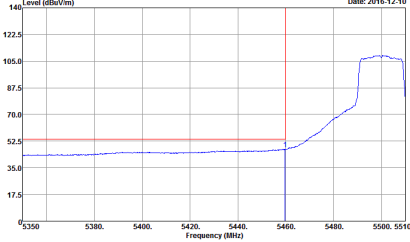
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 14 ANTI Setting : 14</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 14 ANTI Setting : 14</p>



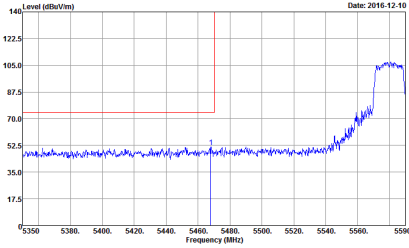
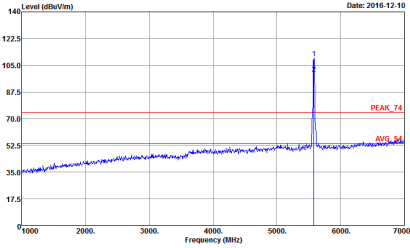
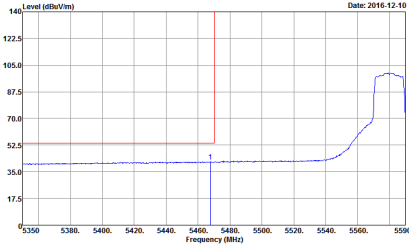
**Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>
<p>Avg.</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>	<p align="center">Left blank</p>

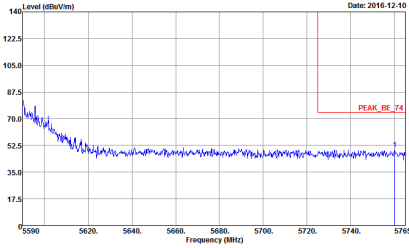
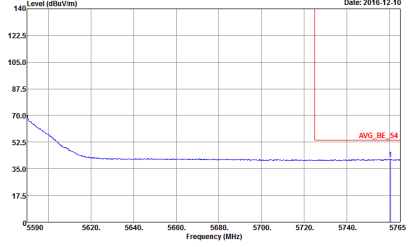


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 15 ANTO Setting : 17 ANTO Setting : 68.2</p>	Left blank

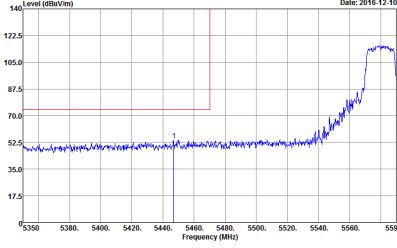
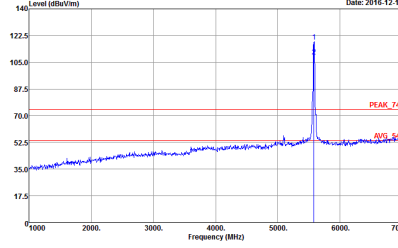
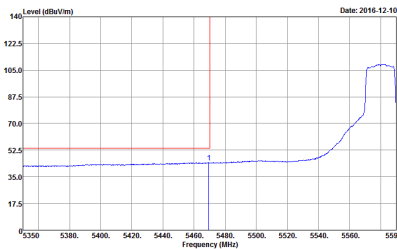


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01</p>	Left blank

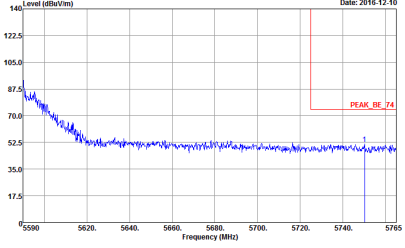
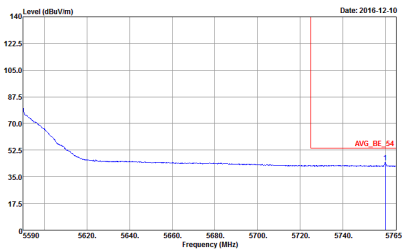


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p> Date: 2016-12-10 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank
Avg.	 <p> Date: 2016-12-10 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 641813-01 </p>	Left blank

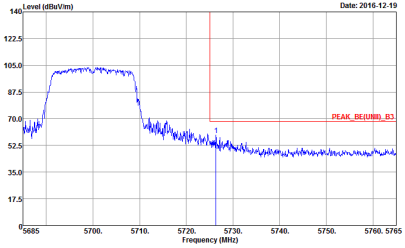
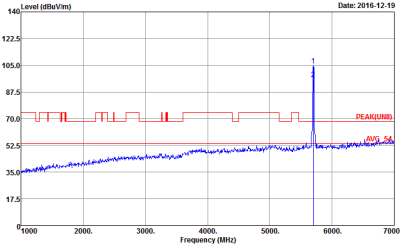


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank

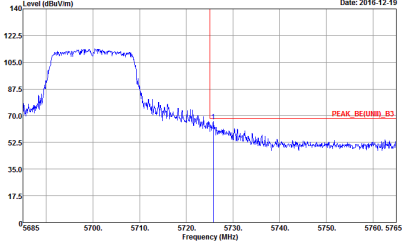
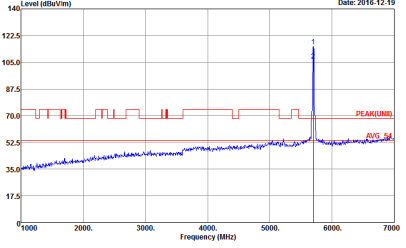


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 641813-01</p>	Left blank



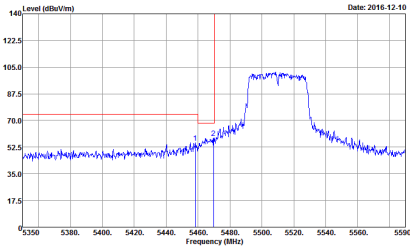
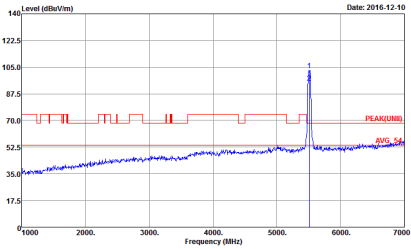
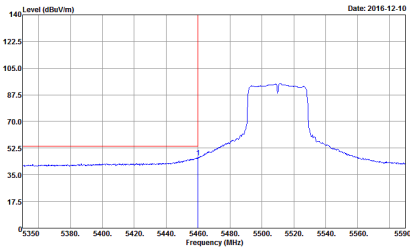
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 <p> Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 12 ANTI Setting : 13 </p>	 <p> Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 12 ANTI Setting : 13 </p>



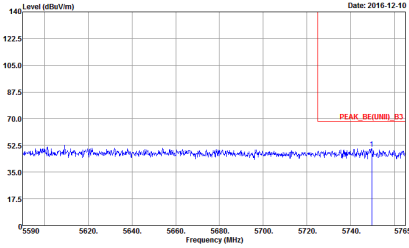
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-19</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 12 ANTI Setting : 13</p>	 <p>Date: 2016-12-19</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 12 ANTI Setting : 13</p>



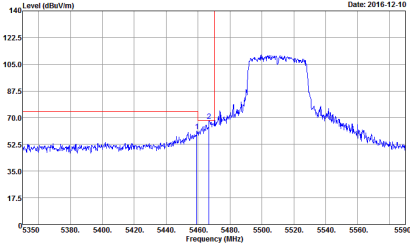
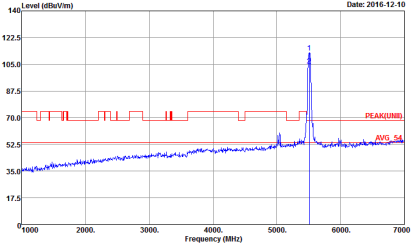
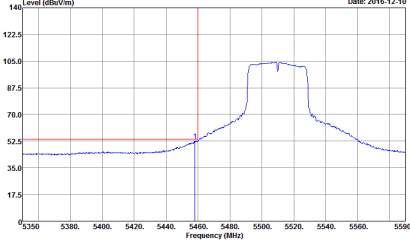
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 68.2 ANTI Setting : 13</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 68.2 ANTI Setting : 13</p>
<p>Avg.</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 68.2 ANTI Setting : 13</p>	<p align="center">Left blank</p>

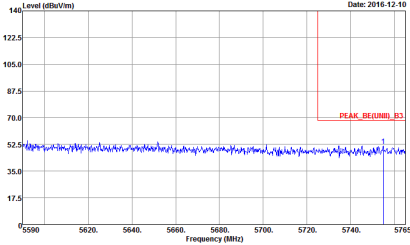


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Detector : Peak Project : 641813-01 ANT0 Setting : 11 ANT1 Setting : 13</p>	Left blank

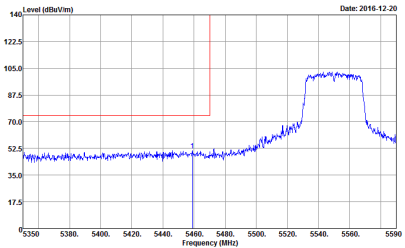
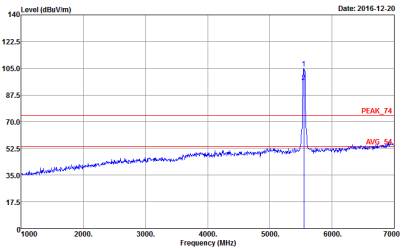
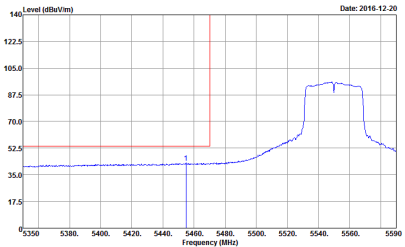


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 13</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 13</p>
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 13</p>	Left blank

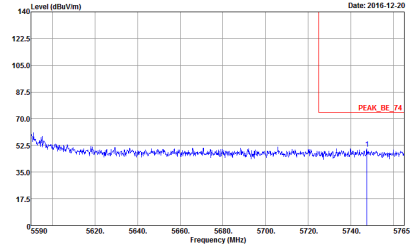
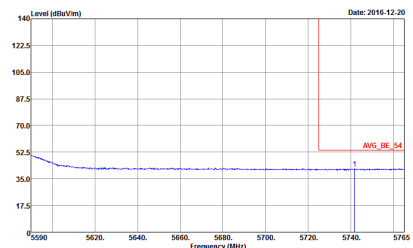


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 ANT0 Setting : 11 ANT1 Setting : 13</p>	Left blank

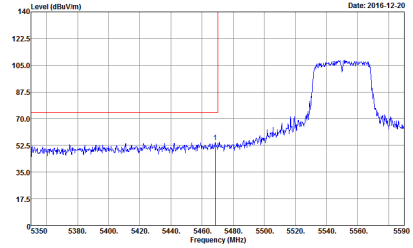
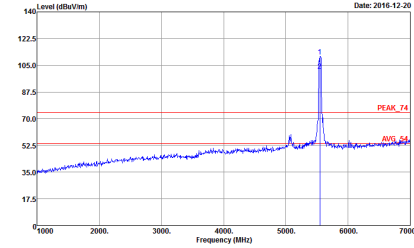
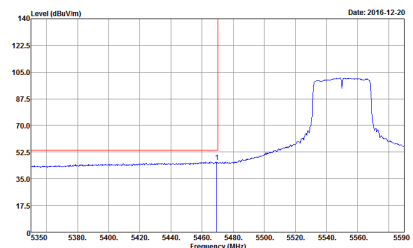


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 14</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 14</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 641813-01 ANTO Setting : 11 ANTI Setting : 14</p>	Left blank

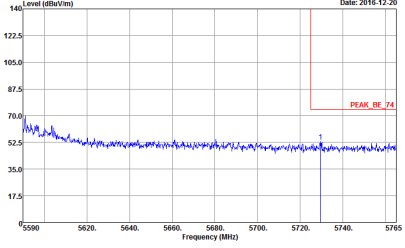
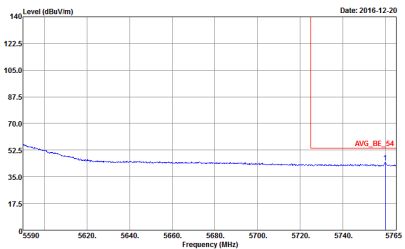


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANT0 Setting : 11 ANT1 Setting : 14</p>	Left blank
Avg.	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANT0 Setting : 11 ANT1 Setting : 14</p>	Left blank

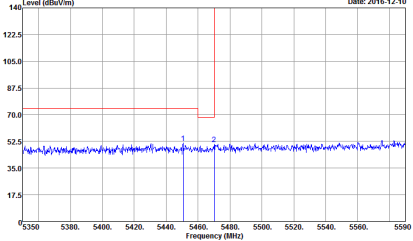
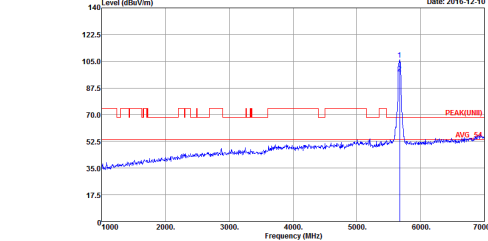
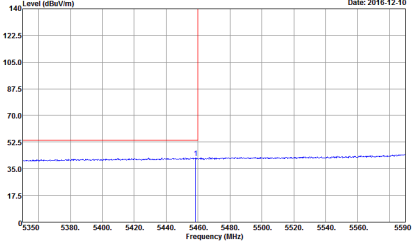


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANTO Setting : 11 ANTI Setting : 14</p>	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANTO Setting : 11 ANTI Setting : 14</p>
Avg.	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANTO Setting : 11 ANTI Setting : 14</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANTO Setting : 11 ANTI Setting : 14</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2016-12-20</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 7454 ANTO Setting : 11 ANTI Setting : 14</p>	<p>Left blank</p>

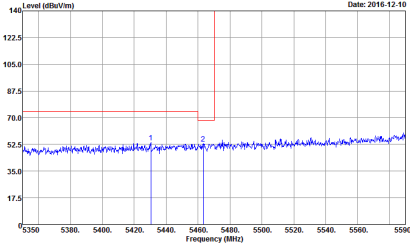
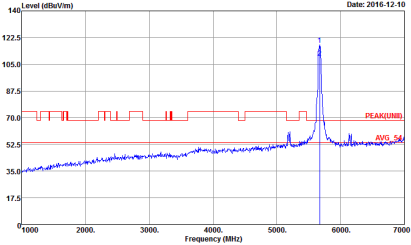
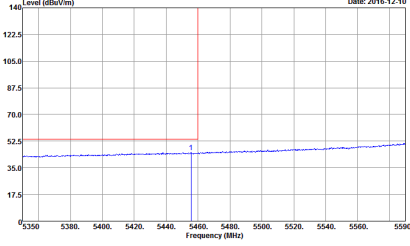


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 Ant 0 Setting : 68.2 Ant 1 Setting : 19</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 Ant 0 Setting : 17 Ant 1 Setting : 19</p>
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 Ant 0 Setting : 68.2 Ant 1 Setting : 19</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HV Condition : PEAK_BE(UNI)_B3 3m HORN 91200-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 68.2 Ant 0 Setting : 17 Ant 1 Setting : 19</p>	Left blank



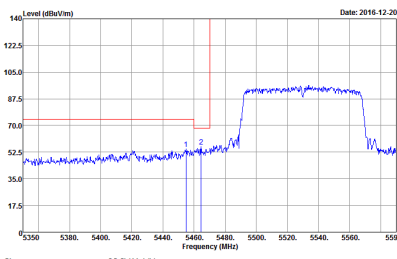
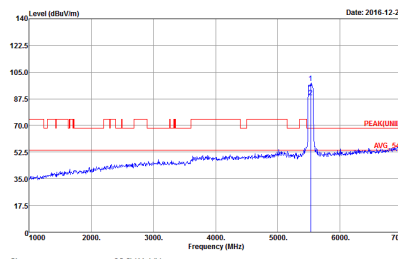
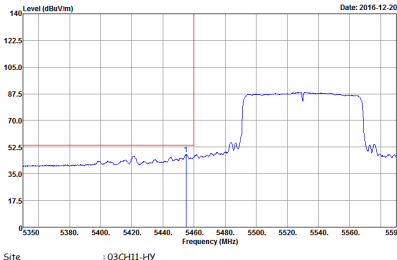
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 Ant 0 Setting : 17 Ant 1 Setting : 19</p>	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 Ant 0 Setting : 17 Ant 1 Setting : 19</p>
Avg.	 <p>Date: 2016-12-10</p> <p>Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 641813-01 Ant 0 Setting : 17 Ant 1 Setting : 19</p>	Left blank



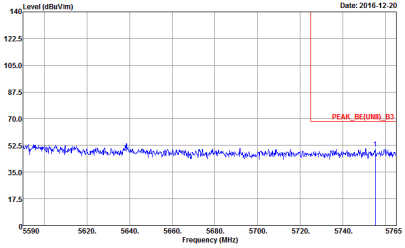
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HV Condition : PEAK_BE(UMD)_B3 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 Ant 0 Setting : 17 Ant 1 Setting : 19</p>	Left blank



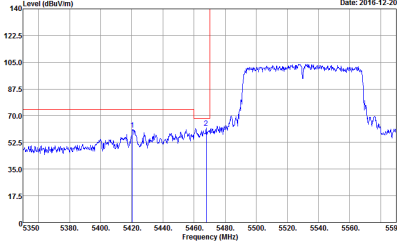
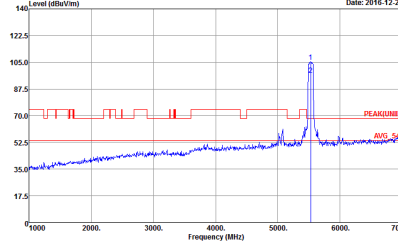
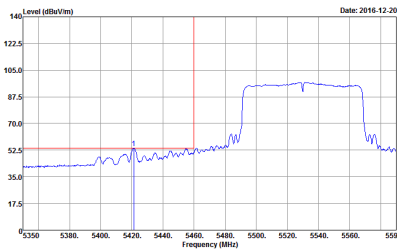
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 641813-01 Ant 0 Setting : 68.2 Ant 1 Setting : 0C</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 641813-01 Ant 0 Setting : 68.2 Ant 1 Setting : 0C</p>
<p>Avg.</p>	 <p>Site : 03CH11-HY Condition : AV6_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 641813-01 Ant 0 Setting : 68.2 Ant 1 Setting : 0C</p>	<p align="center">Left blank</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03GH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 Ant 0 Setting : 0A Ant 1 Setting : 0C</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 68.2 Ant 0 Setting : OA Ant 1 Setting : OC</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 68.2 Ant 0 Setting : OA Ant 1 Setting : OC</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 641813-01 : 68.2 Ant 0 Setting : OA Ant 1 Setting : OC</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Site : 03GH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 Ant 0 Setting : OA Ant 1 Setting : OC</p>	Left blank

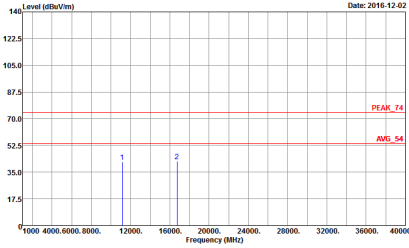
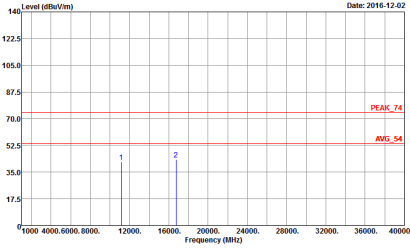


Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBuV/m) vs Frequency (MHz) and associated test parameters like Site, Condition, Detector, and Project.

Peak
Avg.



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHZ	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



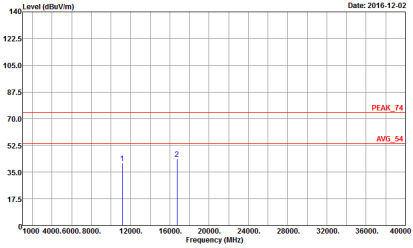
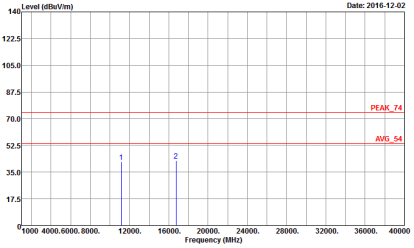
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Horizontal spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks between 10000 and 18000 MHz. Two specific peaks are labeled '1' and '2' at approximately 12000 MHz and 16000 MHz respectively. The average level is marked as 'AVG_54' at approximately 55 dBuV/m. The plot includes a red line for the average level and a blue line for the peak level. The x-axis ranges from 10000 to 40000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	<p>Vertical spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot displays a series of peaks between 10000 and 18000 MHz. Two specific peaks are labeled '1' and '2' at approximately 12000 MHz and 16000 MHz respectively. The average level is marked as 'AVG_54' at approximately 55 dBuV/m. The plot includes a red line for the average level and a blue line for the peak level. The x-axis ranges from 10000 to 40000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



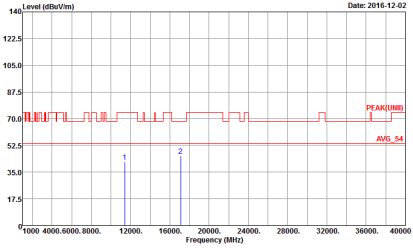
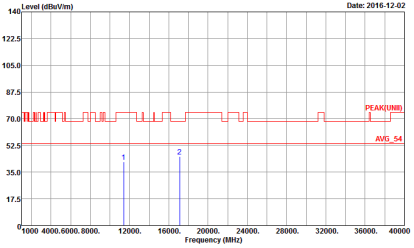
Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot showing Level (dBm/100MHz) vs Frequency (MHz) with peak markers and an average line. Includes site and condition details for both orientations.



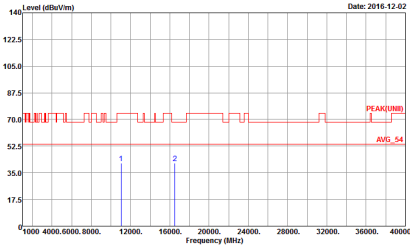
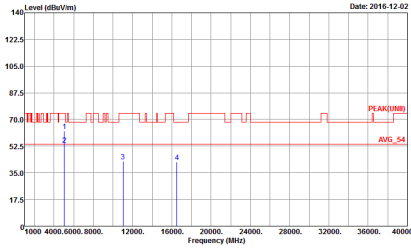
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



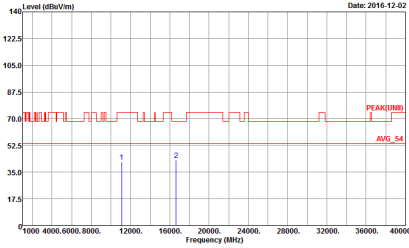
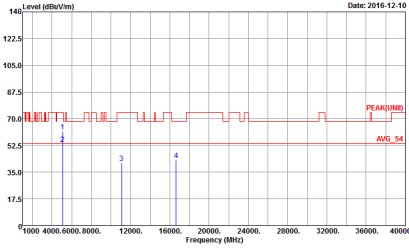
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



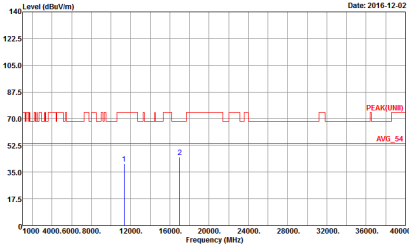
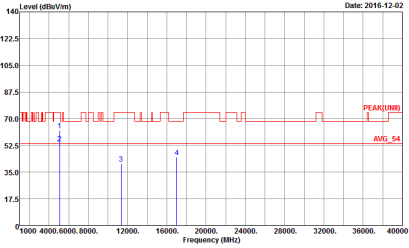
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Date: 2016-12-02</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-02</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz	
1+2	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORN_150809 HORIZONTAL Detector : Peak Project : 641813-01 Ant 0 Setting : 16 Ant 1 Setting : 11</p>	 <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 641813-01 ANT0 Setting : 16 ANT1 Setting : 11</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Date: 2016-12-02</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	 <p>Date: 2016-12-02</p> <p>Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



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

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>	<p>Site : 03CH11-HY Condition : PEAK(UMI) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 641813-01</p>	<p>Site : 03CH11-HY Condition : PEAK(UMI) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 641813-01</p>



Emission below 1GHz
5GHz WIFI 802.11ac VHT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 641813-01</p>	<p>Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 641813-01</p>



Appendix D. Duty Cycle Plots

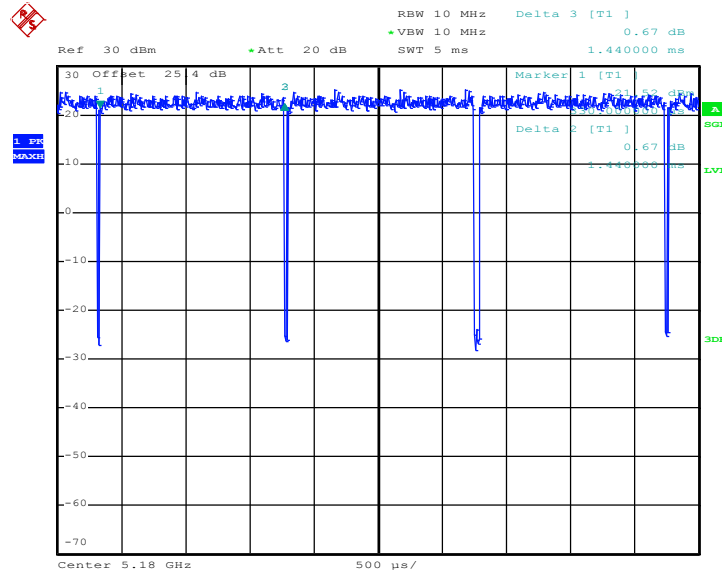
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11a for Ant. 1	96.7*	1440	0.69	1kHz
1+2	5GHz 802.11a for Ant. 2	96.6*	1440	0.69	1kHz
1+2	5GHz 802.11n HT20 for Ant. 1	96.6*	1350	0.74	1kHz
1+2	5GHz 802.11n HT20 for Ant. 2	96.7*	1355	0.74	1kHz
1+2	5GHz 802.11n HT40 for Ant. 1	95.0*	670	1.49	3kHz
1+2	5GHz 802.11n HT40 for Ant. 2	95.0*	668	1.50	3kHz
1+2	5GHz 802.11ac VHT80 for Ant. 1	92.9*	336	2.98	3kHz
1+2	5GHz 802.11ac V HT80 for Ant. 2	92.9*	334	2.99	3kHz

Note *: Duty cycle is not a constant value during the continuous transmission.



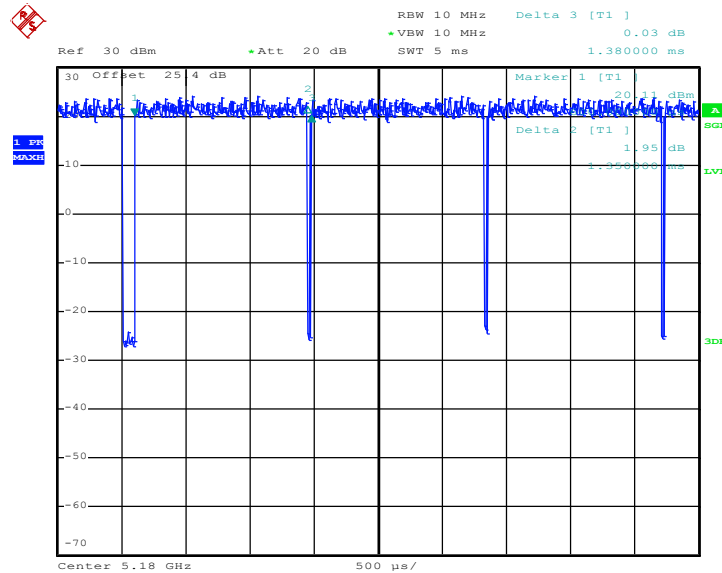
MIMO <Ant. 1+2(1)>

802.11a



Date: 5.MAY.2016 14:59:38

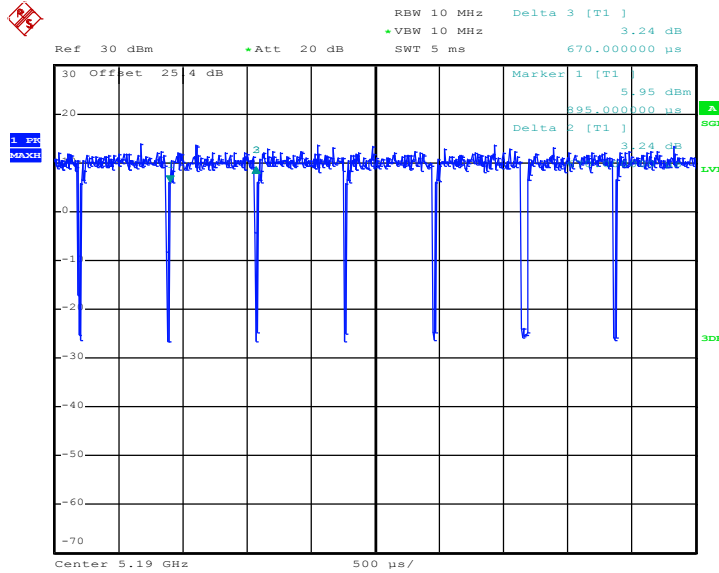
802.11n HT20



Date: 5.MAY.2016 15:45:39

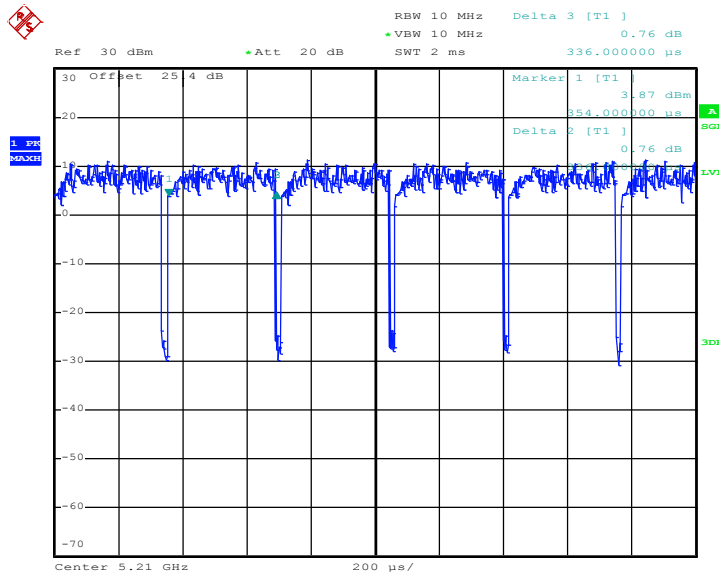


802.11n HT40



Date: 13.MAY.2016 11:25:33

802.11ac VTH80

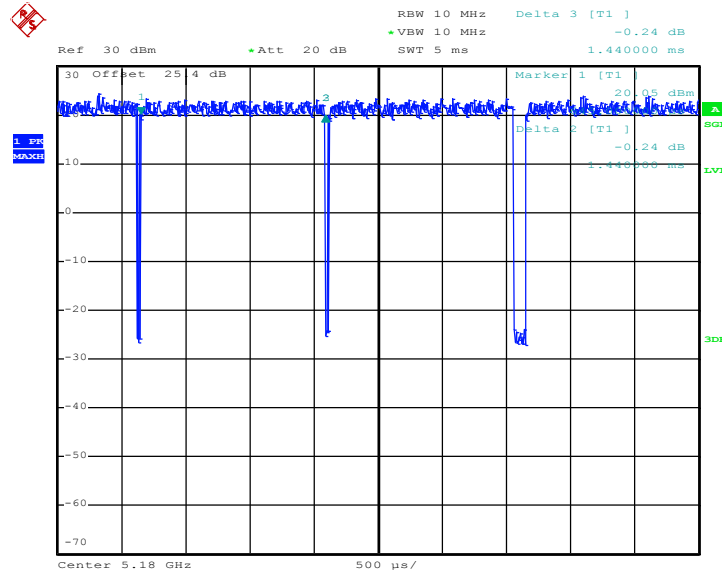


Date: 13.MAY.2016 11:31:16



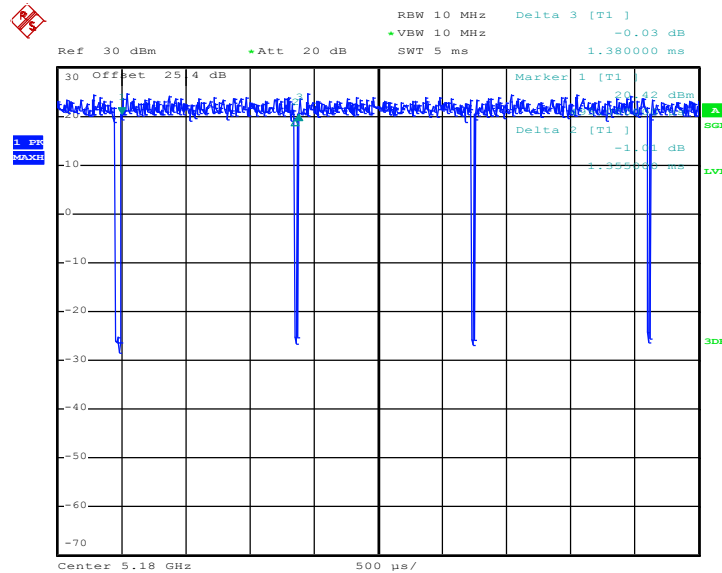
MIMO <Ant. 1+2(2)>

802.11a



Date: 5.MAY.2016 15:00:24

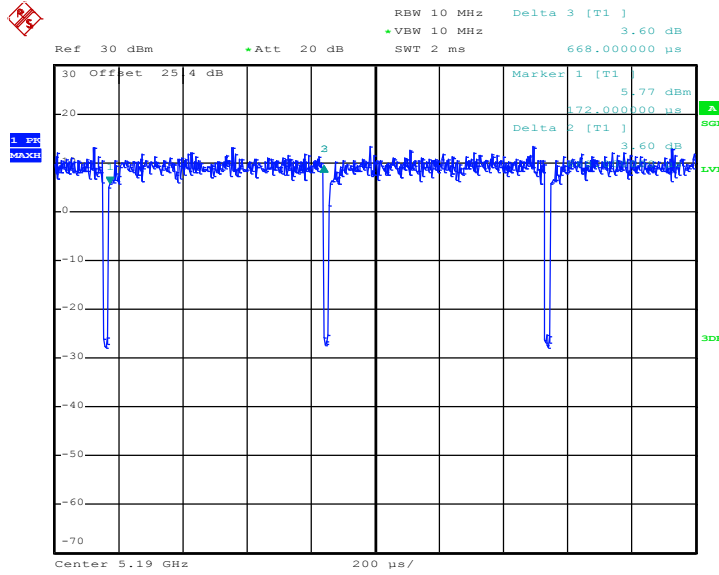
802.11n HT20



Date: 5.MAY.2016 15:46:43

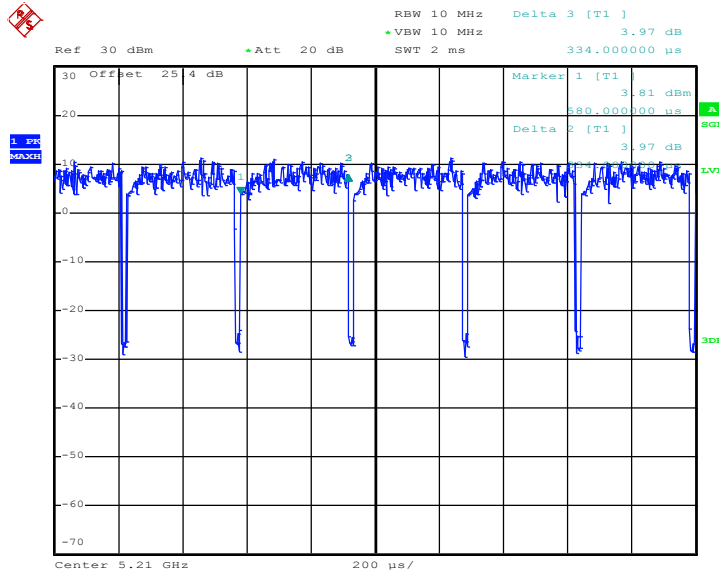


802.11n HT40



Date: 13.MAY.2016 11:26:52

802.11ac VTH80



Date: 13.MAY.2016 11:32:59