



FCC RF Test Report

APPLICANT : Ubiquiti Networks, Inc.
EQUIPMENT : UniFi AC In-Wall Wi-Fi Access Point
BRAND NAME : UBIQUITI
MODEL NAME : UAP-AC-IW
FCC ID : SWX-UAPACIW
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Oct. 07, 2016 and testing was completed on Nov. 12, 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.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR6O0709-02	Rev. 01	Initial issue of report	Dec. 21, 2016

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	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 0.11 dB at 11000.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.00 dB at 0.294 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Ubiquiti Networks, Inc.

2580 Orchard Pkwy., San Jose, CA95131, U.S.A

1.2 Manufacturer

Ubiquiti Networks, Inc.

2580 Orchard Pkwy., San Jose, CA95131, U.S.A

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	UniFi AC In-Wall Wi-Fi Access Point
Brand Name	UBIQUITI
Model Name	UAP-AC-IW
FCC ID	SWX-UAPACIW
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification												
Tx/Rx Frequency Range		5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz										
Maximum Output Power to Antenna		MIMO <Ant. 1+2> <5260 MHz ~ 5320 MHz> 802.11a : 20.10 dBm / 0.1023 W 802.11n HT20 : 17.94 dBm / 0.0622 W 802.11n HT40 : 20.23 dBm / 0.1054 W 802.11ac VHT20 : 17.89 dBm / 0.0615 W 802.11ac VHT40 : 20.20 dBm / 0.1047 W 802.11ac VHT80 : 20.09 dBm / 0.1021 W <5500 MHz ~ 5720 MHz > 802.11a : 20.31 dBm / 0.1074 W 802.11n HT20 : 19.82 dBm / 0.0959 W 802.11n HT40 : 22.09 dBm / 0.1618 W 802.11ac VHT20 : 19.74 dBm / 0.0942 W 802.11ac VHT40 : 22.02 dBm / 0.1592 W 802.11ac VHT80 : 21.91 dBm / 0.1552 W										
Maximum Output Power to Antenna for Straddle Channel		MIMO <Ant. 1+2> 802.11a : 16.49 dBm / 0.0446 W 802.11n HT20 : 16.48 dBm / 0.0445 W 802.11n HT40 : 17.97 dBm / 0.0627 W 802.11ac VHT20 : 16.41 dBm / 0.0438 W 802.11ac VHT40 : 17.78 dBm / 0.0600 W 802.11ac VHT80 : 18.99 dBm / 0.0793 W										
99% Occupied Bandwidth		802.11a : 17.95 MHz 802.11n HT20 : 18.90 MHz 802.11n HT40 : 37.70 MHz 802.11ac VHT80 : 76.32 MHz										
99% Occupied Bandwidth for Straddle Channel		802.11a : 17.55 MHz 802.11n HT20 : 18.85 MHz 802.11n HT40 : 36.90 MHz 802.11ac VHT80 : 76.08 MHz										
Antenna Type / Gain		<5260 MHz ~ 5320 MHz> Ant. 1 : Internal Antenna with gain 2.00 dBi Ant. 2 : Internal Antenna with gain 2.00 dBi <5500 MHz ~ 5700 MHz > Ant. 1 : Internal Antenna with gain 2.00 dBi Ant. 2 : Internal Antenna with gain 2.00 dBi										
Type of Modulation		802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)										
Antenna Function Description		<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table>			Ant. 1	Ant. 2	802.11 a/n/ac	V	V	802.11 a/n/ac MIMO	V	V
	Ant. 1	Ant. 2										
802.11 a/n/ac	V	V										
802.11 a/n/ac MIMO	V	V										

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.5 Modification of EUT

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

1.6 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.	
	03CH13-HY	03CH12-HY

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



1.7 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.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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 (X 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

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

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

Note:

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

2.2 Test Mode

Final test 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 VHT80	MCS0

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



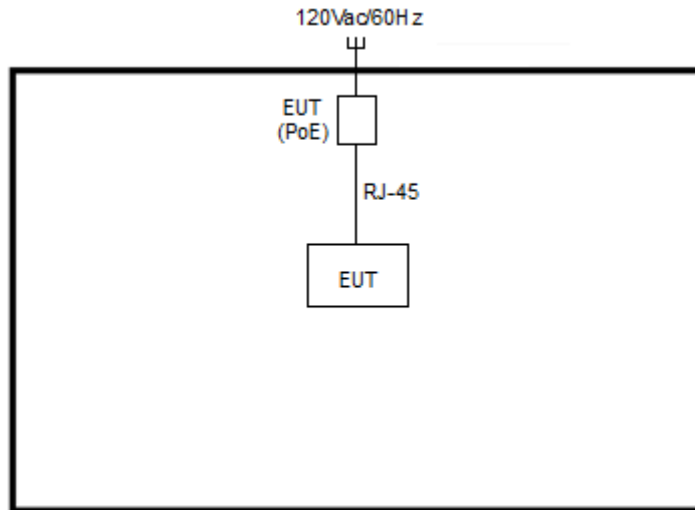
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

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
Straddle		-	144

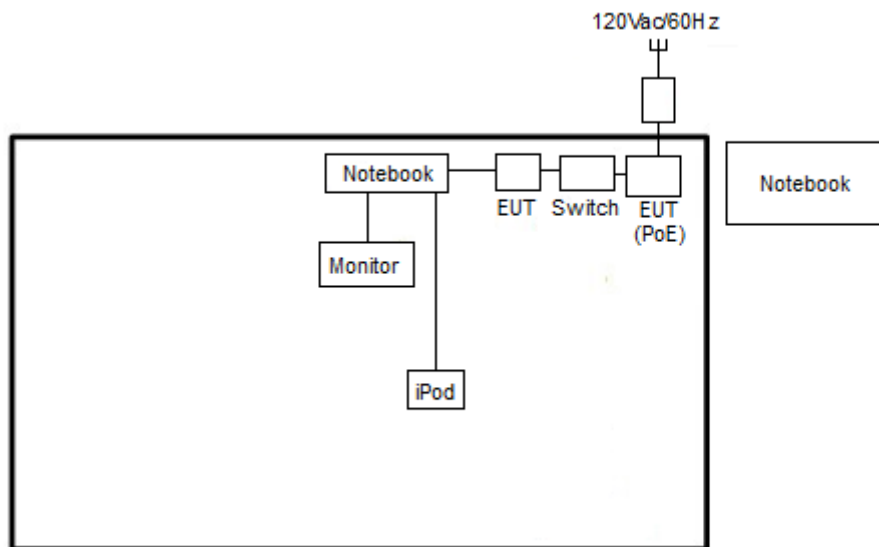
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40
L	Low	54	102
M	Middle	-	110
H	High	62	134
Straddle		-	142

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	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.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	AP	Ubiquiti	UAP-IW	N/A	Shielded, 0.8m	Unshielded, 1.8m
5.	Switch Hub	Ubiquiti	US-8	N/A	Shielded, 0.8m	Unshielded, 1.8m
6.	RJ-45 Cable	INVAX DATA CABLE	IVX011	N/A	N/A	Unshielded, 1.0m
7.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, “putty” 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.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

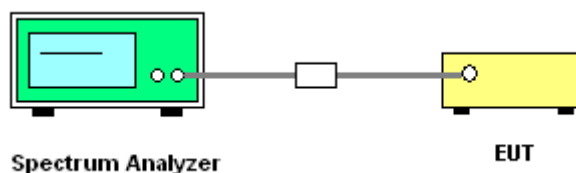
3.1.2 Measuring Instruments

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.

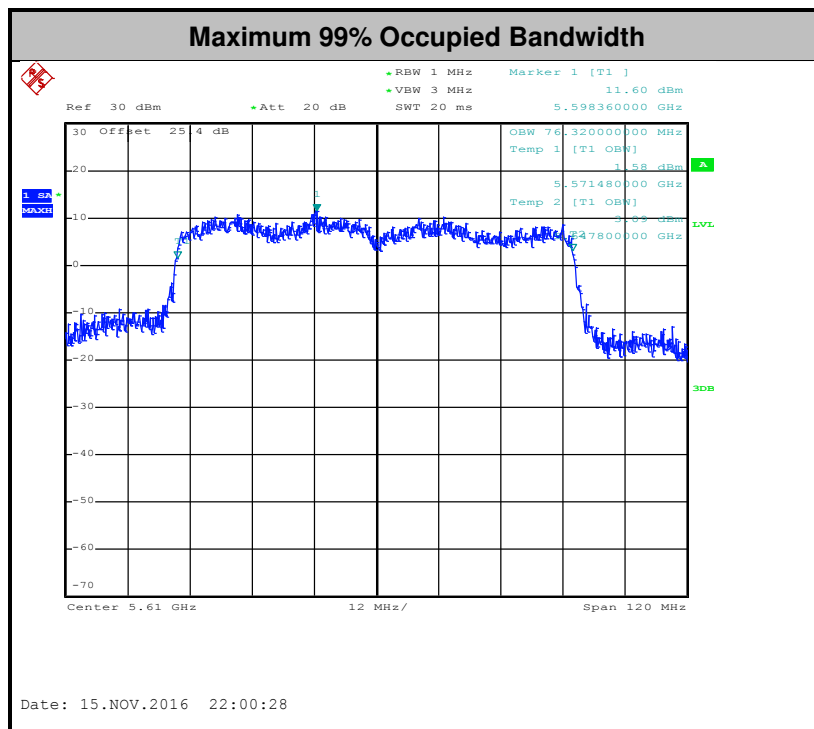
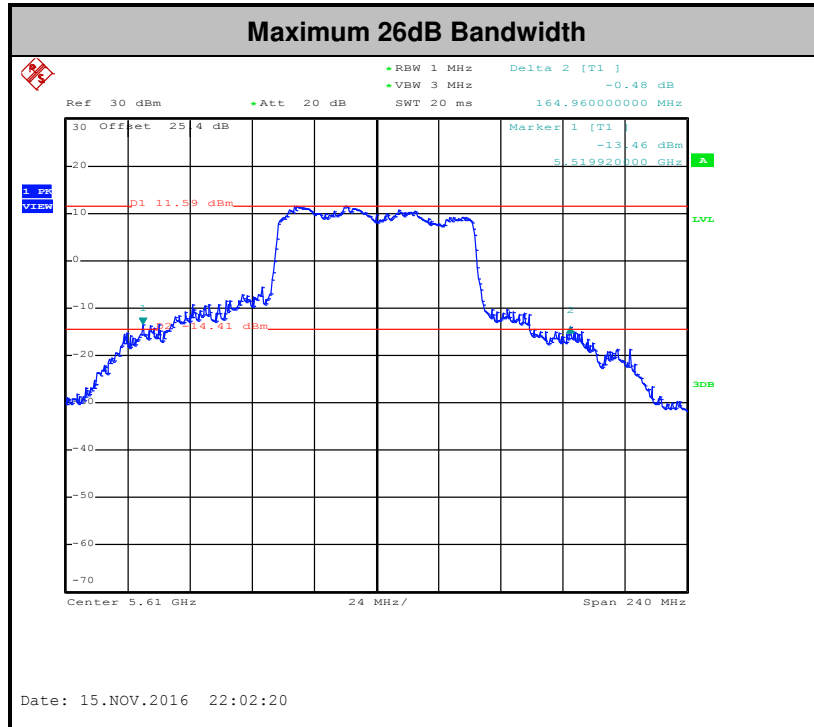
3.1.4 Test Setup





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 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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):

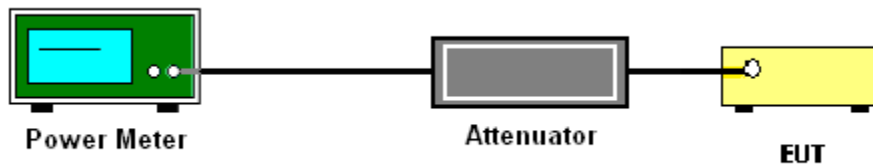
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

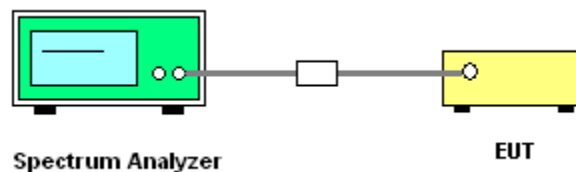
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:

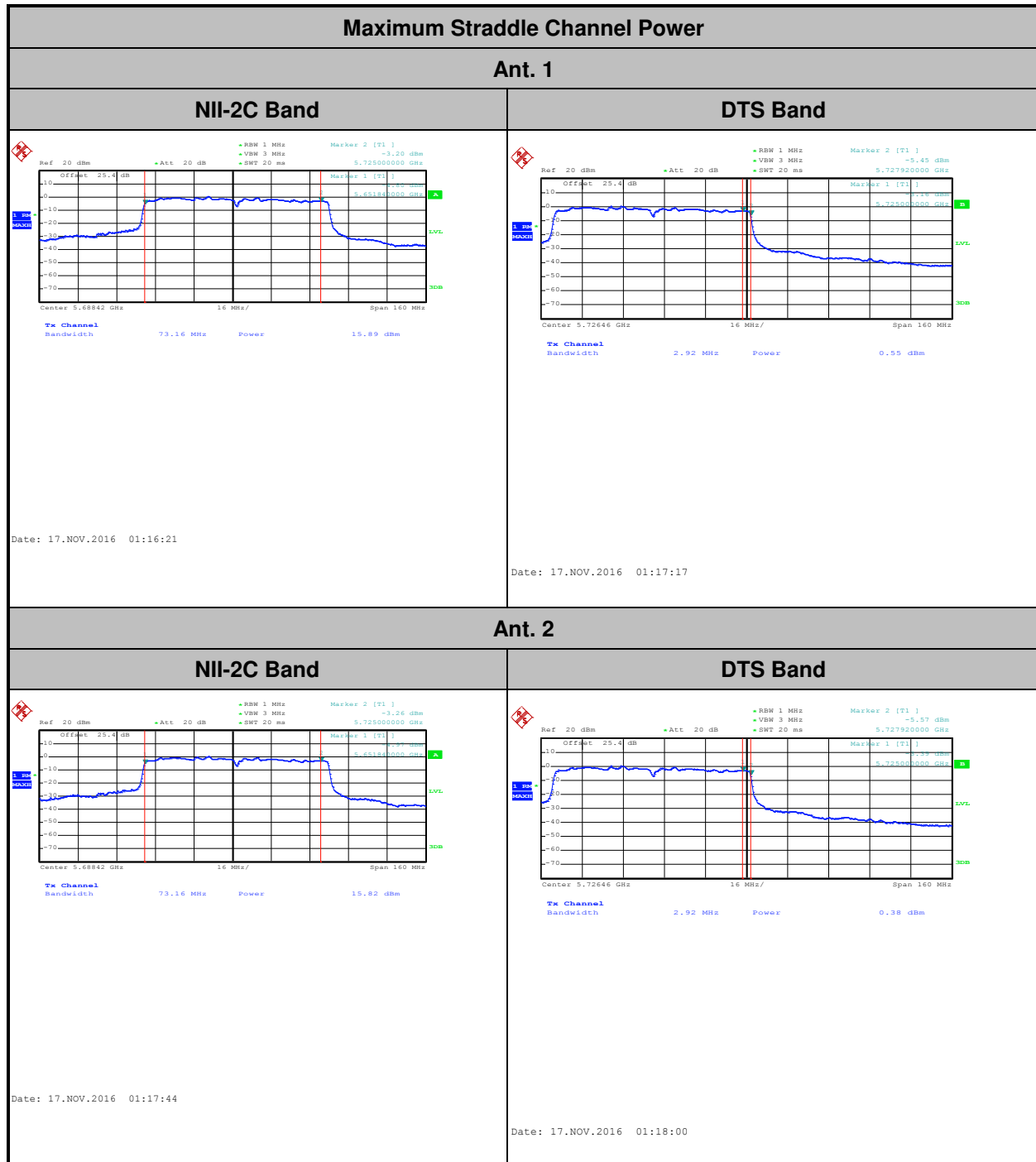


For straddle channel:



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.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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

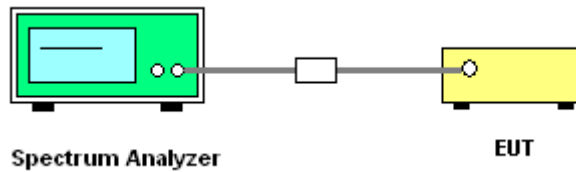
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

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.

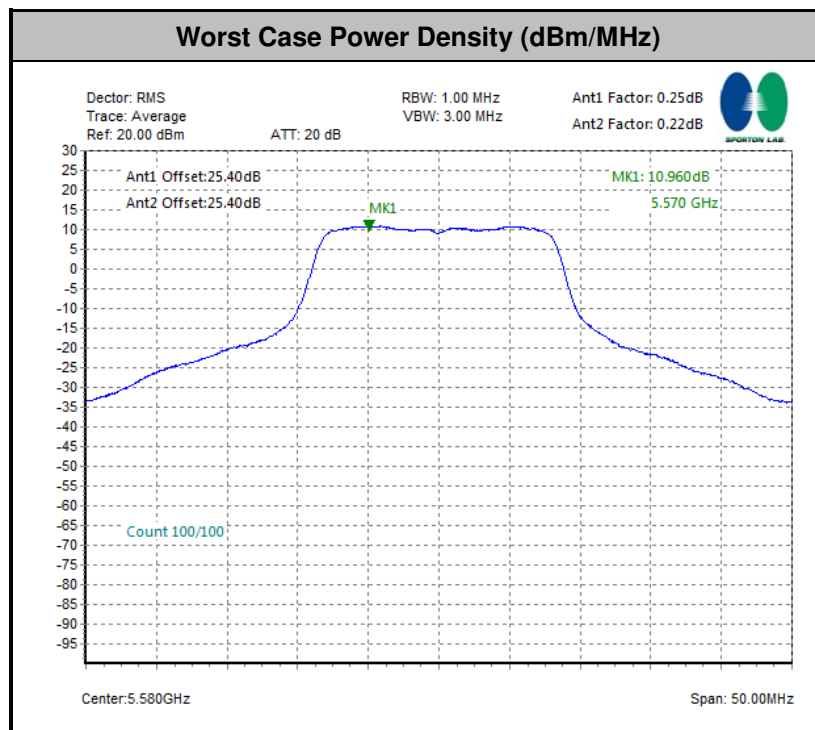
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of 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 Part 15.205.

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 Part 15.205 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.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/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.

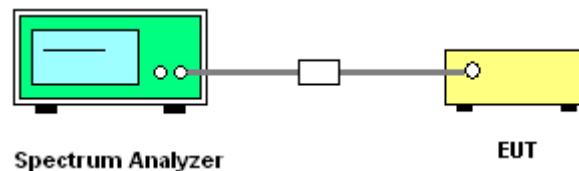
3.4.3 Test Procedures

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 $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

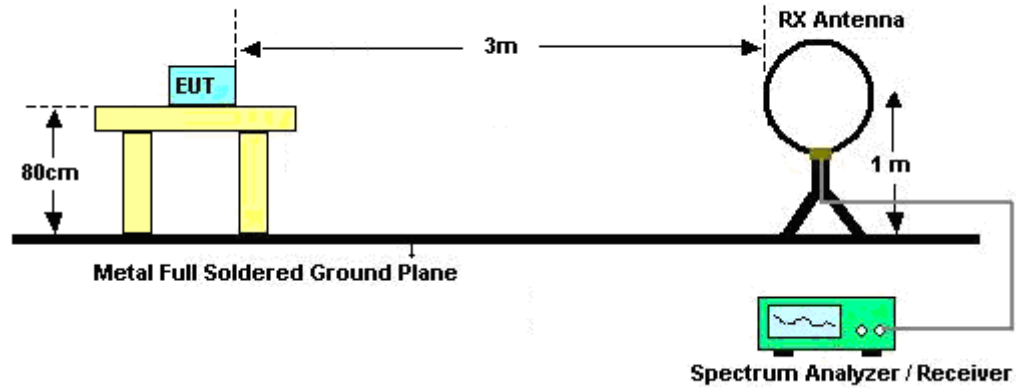
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

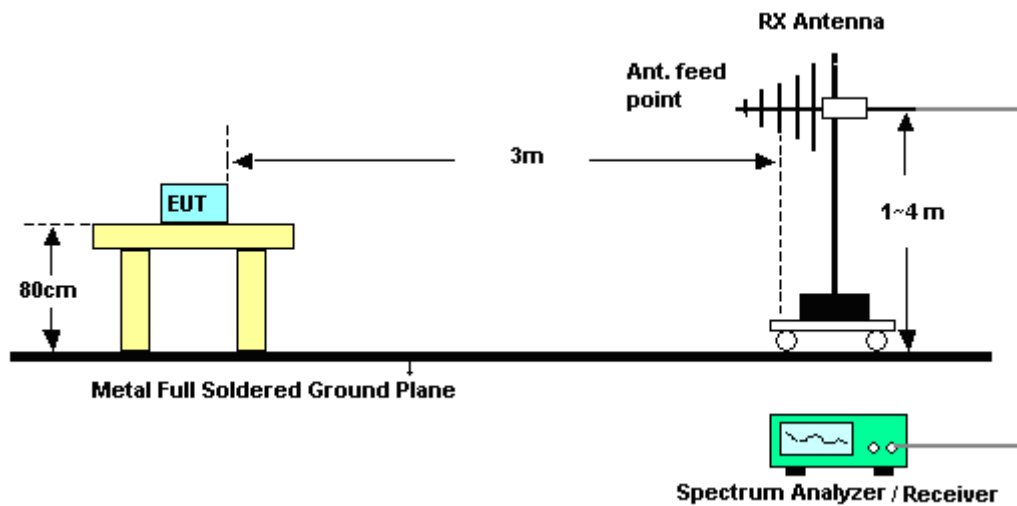
For Conducted Measurement Setup:



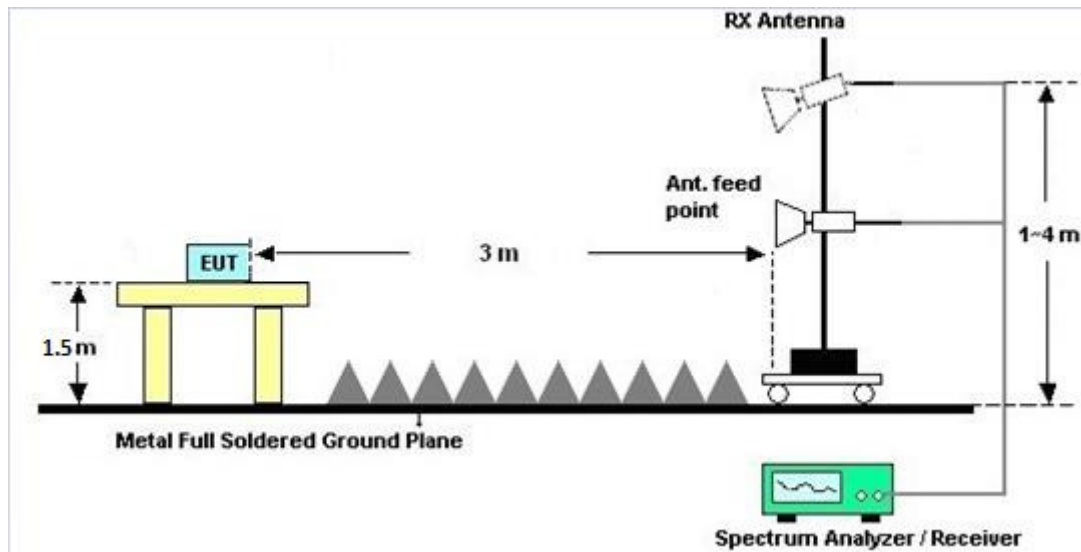
For radiated emissions below 30MHz



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 Conducted Spurious at Band Edges in the Restricted Band

Please refer to Appendix E and F.

3.4.7 Test Result of Conducted Spurious Emission in the Restricted Band

Please refer to Appendix E and F.

3.4.8 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.9 Duty Cycle

Please refer to Appendix D.

3.4.10 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.

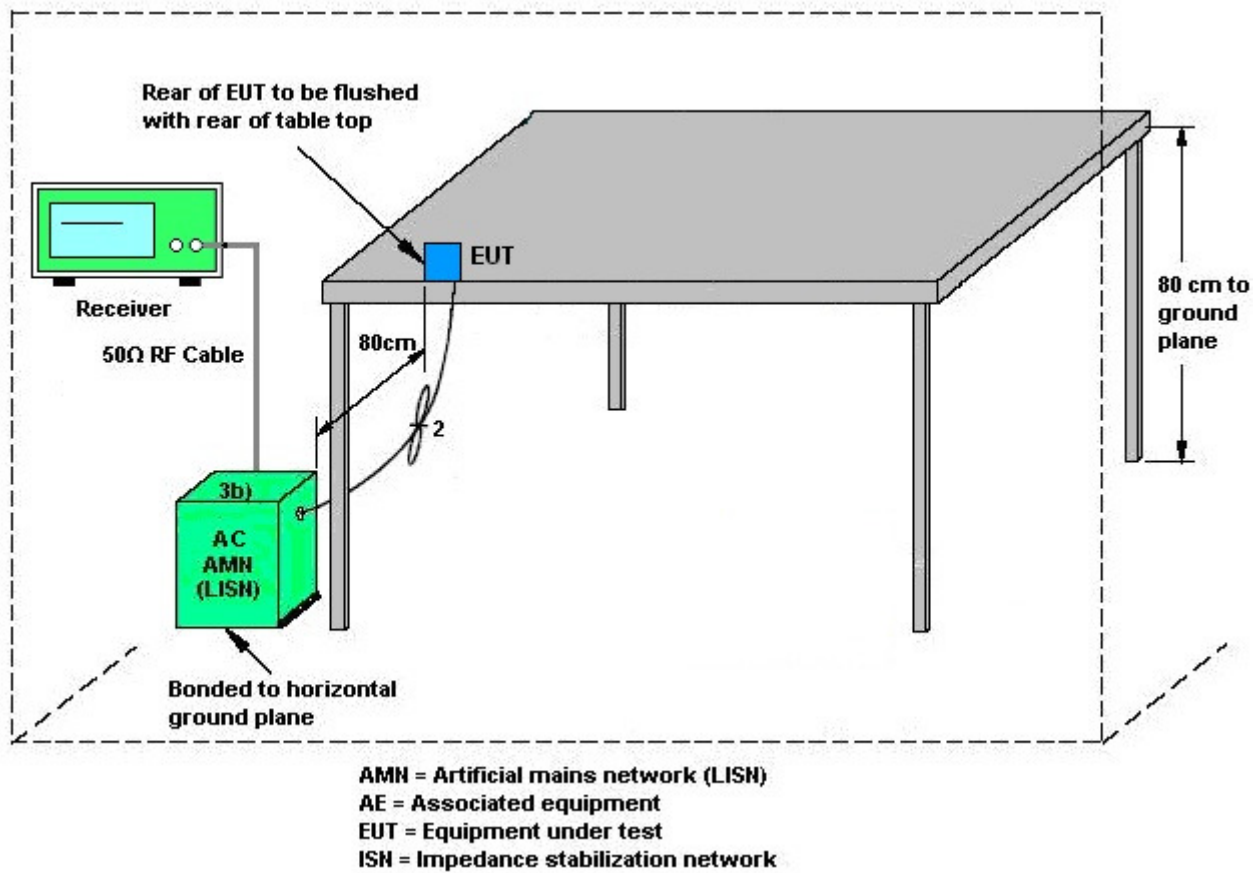
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

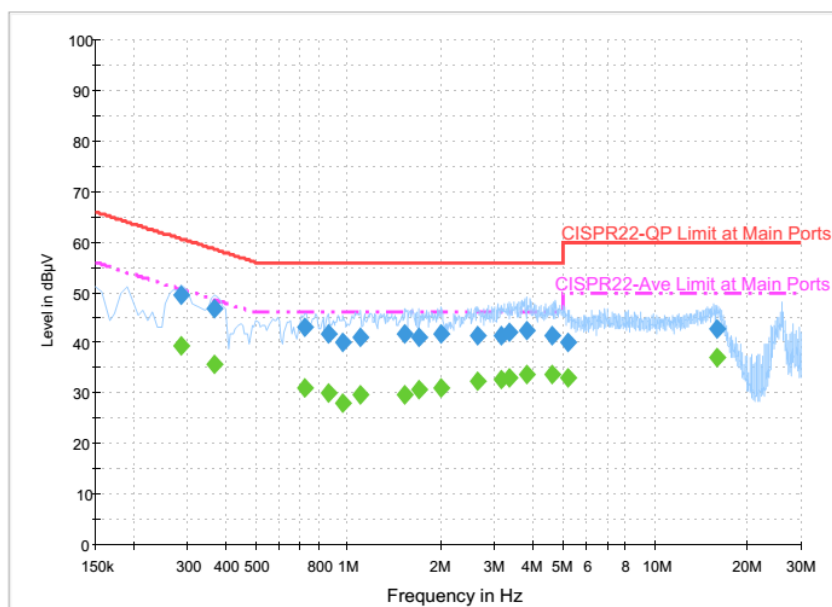
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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



3.5.5 Test Result of AC Conducted Emission

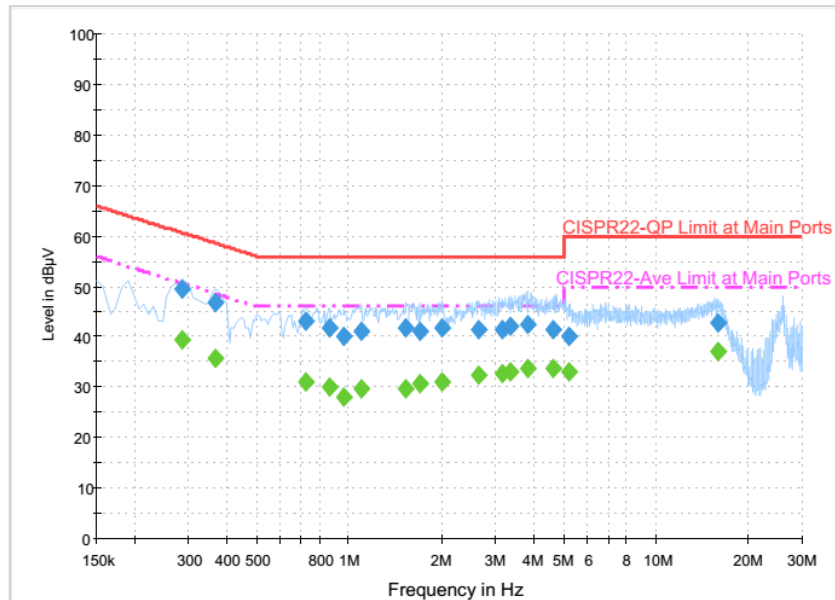
Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + PoE + LAN Link		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.286000	49.4	Off	L1	19.6	11.2	60.6
0.366000	46.7	Off	L1	19.6	11.9	58.6
0.726000	43.2	Off	L1	19.6	12.8	56.0
0.862000	41.8	Off	L1	19.7	14.2	56.0
0.966000	40.0	Off	L1	19.7	16.0	56.0
1.102000	41.1	Off	L1	19.7	14.9	56.0
1.534000	41.8	Off	L1	19.7	14.2	56.0
1.702000	41.1	Off	L1	19.7	14.9	56.0
2.022000	41.7	Off	L1	19.7	14.3	56.0
2.654000	41.5	Off	L1	19.4	14.5	56.0
3.150000	41.5	Off	L1	19.7	14.5	56.0
3.366000	42.1	Off	L1	19.7	13.9	56.0
3.830000	42.3	Off	L1	19.8	13.7	56.0
4.630000	41.5	Off	L1	19.9	14.5	56.0
5.230000	40.1	Off	L1	19.9	19.9	60.0
15.894000	42.7	Off	L1	20.5	17.3	60.0

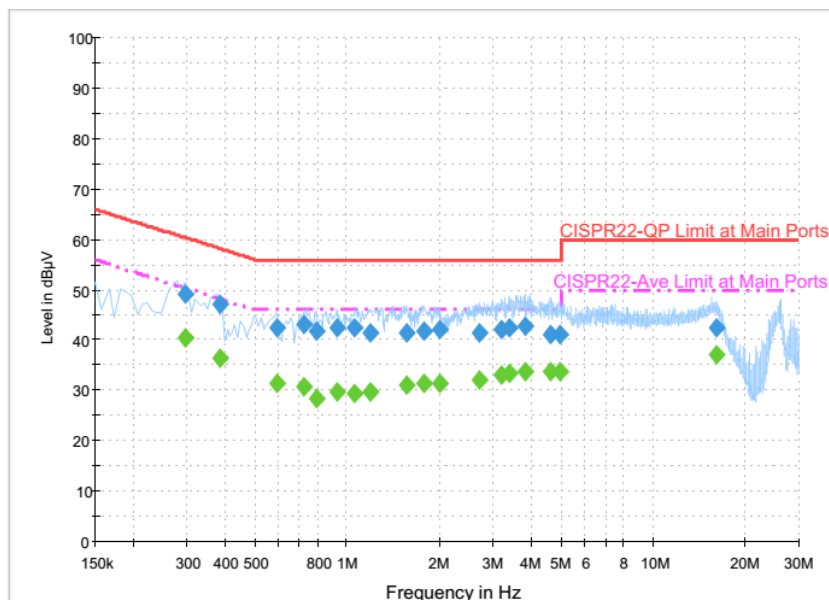
Test Mode :	Mode 1	Temperature :	23~24°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + PoE + LAN Link		


Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.286000	39.4	Off	L1	19.6	11.2	50.6
0.366000	35.8	Off	L1	19.6	12.8	48.6
0.726000	31.2	Off	L1	19.6	14.8	46.0
0.862000	30.0	Off	L1	19.7	16.0	46.0
0.966000	28.0	Off	L1	19.7	18.0	46.0
1.102000	29.6	Off	L1	19.7	16.4	46.0
1.534000	29.9	Off	L1	19.7	16.1	46.0
1.702000	30.6	Off	L1	19.7	15.4	46.0
2.022000	31.1	Off	L1	19.7	14.9	46.0
2.654000	32.4	Off	L1	19.4	13.6	46.0
3.150000	32.8	Off	L1	19.7	13.2	46.0
3.366000	33.3	Off	L1	19.7	12.7	46.0
3.830000	33.8	Off	L1	19.8	12.2	46.0
4.630000	33.6	Off	L1	19.9	12.4	46.0
5.230000	32.9	Off	L1	19.9	17.1	50.0
15.894000	37.3	Off	L1	20.5	12.7	50.0



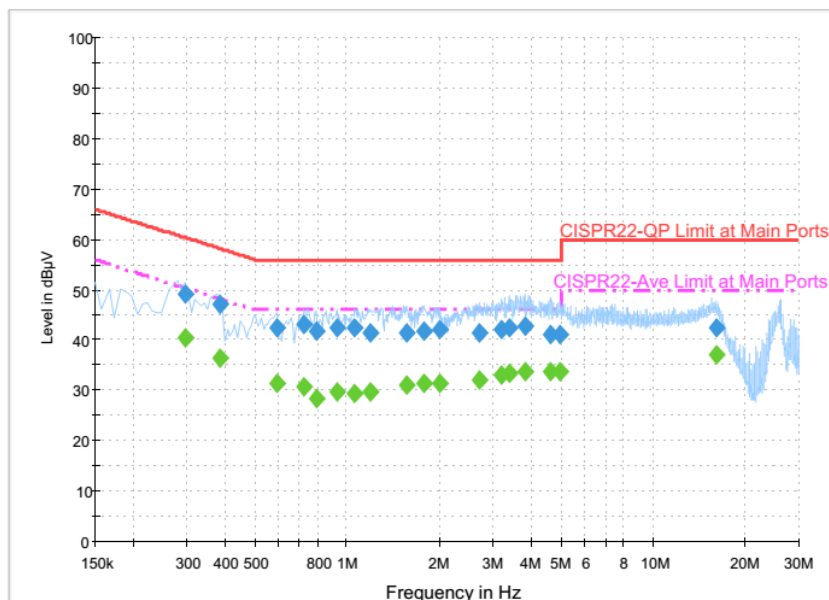
Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + PoE + LAN Link		

**Final Result : QuasiPeak**

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.294000	49.2	Off	N	19.6	11.2	60.4
0.382000	47.0	Off	N	19.6	11.2	58.2
0.590000	42.5	Off	N	19.6	13.5	56.0
0.726000	43.1	Off	N	19.6	12.9	56.0
0.790000	41.8	Off	N	19.6	14.2	56.0
0.926000	42.4	Off	N	19.6	13.6	56.0
1.062000	42.6	Off	N	19.6	13.4	56.0
1.190000	41.5	Off	N	19.6	14.5	56.0
1.558000	41.6	Off	N	19.7	14.4	56.0
1.782000	42.0	Off	N	19.7	14.0	56.0
2.014000	42.0	Off	N	19.7	14.0	56.0
2.694000	41.5	Off	N	19.4	14.5	56.0
3.198000	42.1	Off	N	19.7	13.9	56.0
3.382000	42.4	Off	N	19.7	13.6	56.0
3.830000	42.8	Off	N	19.7	13.2	56.0
4.654000	41.0	Off	N	19.8	15.0	56.0
4.950000	41.3	Off	N	19.8	14.7	56.0
16.158000	42.5	Off	N	20.5	17.5	60.0



Test Mode :	Mode 1	Temperature :	23~24°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + PoE + LAN Link		

**Final Result : QuasiPeak**

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.294000	40.4	Off	N	19.6	10.0	50.4
0.382000	36.3	Off	N	19.6	11.9	48.2
0.590000	31.3	Off	N	19.6	14.7	46.0
0.726000	30.7	Off	N	19.6	15.3	46.0
0.790000	28.5	Off	N	19.6	17.5	46.0
0.926000	29.6	Off	N	19.6	16.4	46.0
1.062000	29.4	Off	N	19.6	16.6	46.0
1.190000	29.7	Off	N	19.6	16.3	46.0
1.558000	31.1	Off	N	19.7	14.9	46.0
1.782000	31.3	Off	N	19.7	14.7	46.0
2.014000	31.5	Off	N	19.7	14.5	46.0
2.694000	32.1	Off	N	19.4	13.9	46.0
3.198000	33.2	Off	N	19.7	12.8	46.0
3.382000	33.5	Off	N	19.7	12.5	46.0
3.830000	33.7	Off	N	19.7	12.3	46.0
4.654000	33.8	Off	N	19.8	12.2	46.0
4.950000	33.8	Off	N	19.8	12.2	46.0
16.158000	37.2	Off	N	20.5	12.8	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.

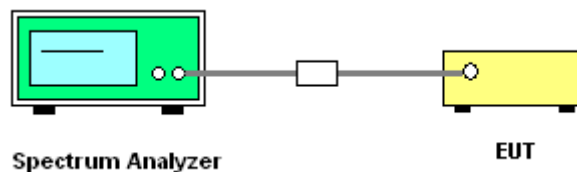
3.6.2 Measuring Instruments

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} + 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.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band II	2.00	2.00	2.00	5.01	0.00	0.00
Band III	2.00	2.00	2.00	5.01	0.00	0.00

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 Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Oct. 04, 2016 ~ Nov. 18, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Oct. 04, 2016 ~ Nov. 18, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Oct. 04, 2016 ~ Nov. 18, 2016	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Oct. 04, 2016 ~ Nov. 18, 2016	Aug. 31, 2017	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 02, 2015	Oct. 04, 2016 ~ Nov. 18, 2016	Dec. 01, 2016	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 21, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Oct. 21, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Oct. 21, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Oct. 21, 2016	Dec. 13, 2016	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Nov. 09, 2016 ~ Nov. 12, 2016	Sep. 01, 2017	Radiation (03CH12-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Nov. 09, 2016 ~ Nov. 12, 2016	Nov. 19, 2016	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 21, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Mar. 20, 2017	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 15, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Oct. 14, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 21, 2015	Nov. 09, 2016 ~ Nov. 12, 2016	Dec. 20, 2016	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 25, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Oct. 24, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 14, 2015	Nov. 09, 2016 ~ Nov. 12, 2016	Dec. 13, 2016	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 30, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Jan. 29, 2017	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 09, 2016 ~ Nov. 12, 2016	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 09, 2016 ~ Nov. 12, 2016	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917057 6	18GHz ~ 40GHz	Apr. 15, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Apr. 14, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Nov. 09, 2016 ~ Nov. 12, 2016	Jun. 13, 2017	Radiation (03CH12-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 24, 2016	Oct. 28, 2016 ~ Nov. 06, 2016	Aug. 23, 2017	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9030A	MY54200485	3Hz ~ 44GHz	Mar. 21, 2016	Oct. 28, 2016 ~ Nov. 06, 2016	Mar. 20, 2017	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Oct. 28, 2016 ~ Nov. 06, 2016	Nov. 19, 2016	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	Oct. 28, 2016 ~ Nov. 06, 2016	Mar. 09, 2017	Radiation (03CH13-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.10
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70
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Appendix A. Conducted Test Results

Test Engineer:	Aking Chang	Temperature:	21~25	°C
Test Date:	2016/10/04~2016/11/18	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	17.95	17.55	24.70	25.10	23.44		29.44		23.98		
11a	6Mbps	2	60	5300	17.55	17.60	23.70	24.10	23.44		29.44		23.98		
11a	6Mbps	2	64	5320	17.55	17.50	23.40	24.40	23.43		29.43		23.98		
HT20	MCS0	2	52	5260	18.80	18.80	24.45	24.90	23.74		29.74		23.98		
HT20	MCS0	2	60	5300	18.85	18.90	25.10	25.80	23.75		29.75		23.98		
HT20	MCS0	2	64	5320	18.85	18.60	24.90	24.60	23.70		29.70		23.98		
HT40	MCS0	2	54	5270	37.10	36.60	46.80	47.16	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.80	36.80	46.26	46.17	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.96	75.84	89.76	88.48	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.25	0.22	17.24	16.94	20.10	23.98		2.00		30	Pass
11a	6Mbps	2	60	5300	0.25	0.22	14.60	14.48	17.55	23.98		2.00		30	Pass
11a	6Mbps	2	64	5320	0.25	0.22	14.65	14.54	17.61	23.98		2.00		30	Pass
HT20	MCS0	2	52	5260	0.27	0.23	14.97	14.88	17.94	23.98		2.00		30	Pass
HT20	MCS0	2	60	5300	0.27	0.23	13.52	13.53	16.54	23.98		2.00		30	Pass
HT20	MCS0	2	64	5320	0.27	0.23	14.52	14.55	17.55	23.98		2.00		30	Pass
HT40	MCS0	2	54	5270	0.53	0.46	17.25	17.20	20.23	23.98		2.00		30	Pass
HT40	MCS0	2	62	5310	0.53	0.46	16.50	16.57	19.54	23.98		2.00		30	Pass
VHT20	MCS0	2	52	5260	0.27	0.23	14.92	14.85	17.89	23.98		2.00		30	Pass
VHT20	MCS0	2	60	5300	0.27	0.23	13.47	13.39	16.44	23.98		2.00		30	Pass
VHT20	MCS0	2	64	5320	0.27	0.23	14.47	15.03	17.77	23.98		2.00		30	Pass
VHT40	MCS0	2	54	5270	0.46	0.49	17.18	17.19	20.20	23.98		2.00		30	Pass
VHT40	MCS0	2	62	5310	0.46	0.49	16.43	16.51	19.48	23.98		2.00		30	Pass
VHT80	MCS0	2	58	5290	0.89	0.90	17.04	17.12	20.09	23.98		2.00		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.25	0.22			8.92	11.00	5.01			Pass	
11a	6Mbps	2	60	5300	0.25	0.22			6.67	11.00	5.01			Pass	
11a	6Mbps	2	64	5320	0.25	0.22			6.82	11.00	5.01			Pass	
HT20	MCS0	2	52	5260	0.27	0.23			6.78	11.00	5.01			Pass	
HT20	MCS0	2	60	5300	0.27	0.23			5.31	11.00	5.01			Pass	
HT20	MCS0	2	64	5320	0.27	0.23			6.54	11.00	5.01			Pass	
HT40	MCS0	2	54	5270	0.53	0.46			6.00	11.00	5.01			Pass	
HT40	MCS0	2	62	5310	0.53	0.46			5.28	11.00	5.01			Pass	
VHT80	MCS0	2	58	5290	0.89	0.90			2.65	11.00	5.01			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	17.50	17.75	24.90	23.50	23.43		29.43		23.98		
11a	6Mbps	2	116	5580	17.65	17.75	28.20	26.30	23.47		29.47		23.98		
11a	6Mbps	2	140	5700	17.65	17.55	23.60	22.80	23.44		29.44		23.98		
HT20	MCS0	2	100	5500	18.60	18.70	25.60	26.00	23.70		29.70		23.98		
HT20	MCS0	2	116	5580	18.45	18.70	24.85	24.40	23.66		29.66		23.98		
HT20	MCS0	2	140	5700	18.65	18.80	23.90	25.00	23.71		29.71		23.98		
HT40	MCS0	2	102	5510	36.80	37.00	59.58	59.67	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	37.40	37.70	72.45	72.90	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	36.90	37.00	54.18	51.84	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	76.20	75.96	90.24	92.32	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	76.32	76.32	164.96	147.36	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.25	0.22	16.47	16.42	19.46	23.98		2.00		30	Pass
11a	6Mbps	2	116	5580	0.25	0.22	17.37	17.23	20.31	23.98		2.00		30	Pass
11a	6Mbps	2	140	5700	0.25	0.22	13.75	13.57	16.67	23.98		2.00		30	Pass
HT20	MCS0	2	100	5500	0.27	0.23	16.78	16.83	19.82	23.98		2.00		30	Pass
HT20	MCS0	2	116	5580	0.27	0.23	15.62	15.89	18.77	23.98		2.00		30	Pass
HT20	MCS0	2	140	5700	0.27	0.23	14.97	15.06	18.03	23.98		2.00		30	Pass
HT40	MCS0	2	102	5510	0.53	0.46	18.23	18.36	21.30	23.98		2.00		30	Pass
HT40	MCS0	2	110	5550	0.53	0.46	18.88	19.27	22.09	23.98		2.00		30	Pass
HT40	MCS0	2	134	5670	0.53	0.46	17.48	17.26	20.38	23.98		2.00		30	Pass
VHT20	MCS0	2	100	5500	0.27	0.23	16.72	16.75	19.74	23.98		2.00		30	Pass
VHT20	MCS0	2	116	5580	0.27	0.23	15.55	15.86	18.72	23.98		2.00		30	Pass
VHT20	MCS0	2	140	5700	0.27	0.23	14.89	15.03	17.97	23.98		2.00		30	Pass
VHT40	MCS0	2	102	5510	0.46	0.49	18.16	18.29	21.24	23.98		2.00		30	Pass
VHT40	MCS0	2	110	5550	0.46	0.49	18.81	19.20	22.02	23.98		2.00		30	Pass
VHT40	MCS0	2	134	5670	0.46	0.49	17.41	17.19	20.31	23.98		2.00		30	Pass
VHT80	MCS0	2	106	5530	0.89	0.90	16.47	16.60	19.55	23.98		2.00		30	Pass
VHT80	MCS0	2	122	5610	0.89	0.90	18.79	19.00	21.91	23.98		2.00		30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.25	0.22			9.10	11.00		5.01		Pass	
11a	6Mbps	2	116	5580	0.25	0.22			10.96	11.00		5.01		Pass	
11a	6Mbps	2	140	5700	0.25	0.22			5.78	11.00		5.01		Pass	
HT20	MCS0	2	100	5500	0.27	0.23			9.40	11.00		5.01		Pass	
HT20	MCS0	2	116	5580	0.27	0.23			8.93	11.00		5.01		Pass	
HT20	MCS0	2	140	5700	0.27	0.23			6.70	11.00		5.01		Pass	
HT40	MCS0	2	102	5510	0.53	0.46			7.89	11.00		5.01		Pass	
HT40	MCS0	2	110	5550	0.53	0.46			8.80	11.00		5.01		Pass	
HT40	MCS0	2	134	5670	0.53	0.46			6.41	11.00		5.01		Pass	
VHT80	MCS0	2	106	5530	0.89	0.90			3.28	11.00		5.01		Pass	
VHT80	MCS0	2	122	5610	0.89	0.90			6.29	11.00		5.01		Pass	

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		6 dB Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	17.55	17.55	23.30	23.20	16.28	16.30	-	-	-	-	-	-
				NII-2C	13.85	13.85	16.80	16.90	13.20	13.18	22.41	22.41	28.41	28.41	23.25	23.25
				NII-3	3.70	3.70	6.50	6.30	3.08	3.12	30.00	30.00	36.02	36.02	-	-
HT20	MCS0	2	144	5720	18.85	18.85	24.30	24.80	17.26	17.52	-	-	-	-	-	-
				NII-2C	14.40	14.40	16.95	17.26	13.54	13.80	22.58	22.58	28.58	28.58	23.29	23.29
				NII-3	4.45	4.45	7.35	7.54	3.72	3.72	30.00	30.00	36.02	36.02	-	-
HT40	MCS0	2	142	5710	36.90	36.90	47.70	60.84	35.52	36.16	-	-	-	-	-	-
				NII-2C	33.50	33.50	38.58	49.83	32.60	33.24	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	3.40	3.40	9.12	11.01	2.92	2.92	30.00	30.00	36.02	36.02	-	-
VHT80	MCS0	2	138	5690	76.08	76.08	99.68	101.44	75.84	75.84	-	-	-	-	-	-
				NII-2C	73.16	73.16	90.36	89.40	73.24	73.24	23.98	23.98	30.00	30.00	23.98	23.98
				NII-3	2.92	2.92	9.32	12.04	2.60	2.60	30.00	30.00	36.02	36.02	-	-

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720	0.25	0.22	13.53	13.43	16.49	-		2.00		-
				NII-2C	0.25	0.22	12.81	12.69	15.76	23.25		2.00		Pass
				NII-3	0.25	0.22	5.40	5.37	8.40	-		2.00		Pass
HT20	MCS0	2	144	5720	0.27	0.23	13.54	13.40	16.48	-		2.00		-
				NII-2C	0.27	0.23	12.80	12.63	15.73	23.29		2.00		Pass
				NII-3	0.27	0.23	5.46	5.50	8.49	-		2.00		Pass
HT40	MCS0	2	142	5710	0.53	0.46	15.13	14.78	17.97	-		2.00		-
				NII-2C	0.53	0.46	14.87	14.50	17.70	23.98		2.00		Pass
				NII-3	0.53	0.46	2.81	2.73	5.78	-		2.00		Pass
VHT20	MCS0	2	144	5720	0.27	0.23	13.41	13.38	16.41	-		2.00		-
				NII-2C	0.27	0.23	12.66	12.61	15.65	23.29		2.00		Pass
				NII-3	0.27	0.23	5.43	5.47	8.46	-		2.00		Pass
VHT40	MCS0	2	142	5710	0.46	0.49	14.78	14.76	17.78	-		2.00		-
				NII-2C	0.46	0.49	14.50	14.48	17.50	23.98		2.00		Pass
				NII-3	0.46	0.49	2.73	2.71	5.73	-		2.00		Pass
VHT80	MCS0	2	138	5690	0.89	0.90	16.02	15.94	18.99	-		2.00		-
				NII-2C	0.89	0.90	15.89	15.82	18.87	23.98		2.00		Pass
				NII-3	0.89	0.90	0.55	0.38	3.48	-		2.00		Pass

TEST RESULTS DATA
Power Spectral Density

Straddle Channel															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	NII-2C	0.25	0.22			5.03	11.00	5.01			Pass	
				NII-3	0.25	0.22			5.03	30.00	5.01			Pass	
HT20	MCS0	2	144	NII-2C	0.27	0.23			6.25	11.00	5.01			Pass	
				NII-3	0.27	0.23			6.25	30.00	5.01			Pass	
HT40	MCS0	2	142	NII-2C	0.53	0.46			4.58	11.00	5.01			Pass	
				NII-3	0.53	0.46			4.58	30.00	5.01			Pass	
VHT80	MCS0	2	138	NII-2C	0.89	0.90			5.67	11.00	5.01			Pass	
				NII-3	0.89	0.90			5.67	30.00	5.01			Pass	

TEST RESULTS DATA
Frequency Stability

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	120	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	120	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	132	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	108	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	120	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	50	120	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	120	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	132	
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	20	108	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	120	



Appendix B. Radiated Spurious Emission

Test Engineer :	Peter Chiu, Karl Hou, and Nick Yu	Temperature :	22~24°C
		Relative Humidity :	54~58%

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5086.58	58.59	-15.41	74	46.69	31.58	11.27	30.95	208	11	P	H
		5032.5	47.5	-6.5	54	35.61	31.53	11.31	30.95	208	11	A	H
	*	5260	97.26	-	-	85.18	31.77	11.26	30.95	208	11	P	H
	*	5260	85.27	-	-	73.19	31.77	11.26	30.95	208	11	A	H
		5425.92	59.73	-14.27	74	47.12	31.92	11.64	30.95	208	11	P	H
		5436.48	48.12	-5.88	54	35.5	31.93	11.64	30.95	208	11	A	H
		5029.38	58.95	-15.05	74	47.06	31.53	11.31	30.95	330	357	P	V
		5117.26	47.6	-6.4	54	35.69	31.62	11.24	30.95	330	357	A	V
	*	5260	97.58	-	-	85.5	31.77	11.26	30.95	330	357	P	V
	*	5260	86.89	-	-	74.81	31.77	11.26	30.95	330	357	A	V
		5391.12	59.86	-14.14	74	47.33	31.88	11.6	30.95	330	357	P	V
		5430	48.12	-5.88	54	35.5	31.93	11.64	30.95	330	357	A	V
802.11a CH 60 5300MHz		5042.9	58.47	-15.53	74	46.56	31.55	11.31	30.95	215	75	P	H
		5104	47.42	-6.58	54	35.53	31.6	11.24	30.95	215	75	A	H
	*	5300	92.11	-	-	79.91	31.8	11.35	30.95	215	75	P	H
	*	5300	81.97	-	-	69.77	31.8	11.35	30.95	215	75	A	H
		5355.12	59.06	-14.94	74	46.64	31.85	11.52	30.95	215	75	P	H
		5393.28	48.06	-5.94	54	35.53	31.88	11.6	30.95	215	75	A	H
		5096.98	58.45	-15.55	74	46.53	31.6	11.27	30.95	373	0	P	V
		5125.58	47.31	-6.69	54	35.39	31.63	11.24	30.95	373	0	A	V
	*	5300	92.55	-	-	80.35	31.8	11.35	30.95	373	0	P	V
	*	5300	83.24	-	-	71.04	31.8	11.35	30.95	373	0	A	V
		5451.6	59.38	-14.62	74	46.74	31.95	11.64	30.95	373	0	P	V
		5454	48.15	-5.85	54	35.51	31.95	11.64	30.95	373	0	A	V



802.11a CH 64 5320MHz	*	5320	91.91	-	-	79.61	31.82	11.43	30.95	218	73	P	H
	*	5320	82.52	-	-	70.22	31.82	11.43	30.95	218	73	A	H
		5458.72	59.64	-14.36	74	47	31.95	11.64	30.95	218	73	P	H
		5449.6	48.06	-5.94	54	35.42	31.95	11.64	30.95	218	73	A	H
													H
													H
	*	5320	93.9	-	-	81.6	31.82	11.43	30.95	360	0	P	V
	*	5320	83.53	-	-	71.23	31.82	11.43	30.95	360	0	A	V
		5401.44	59.66	-14.34	74	47.11	31.9	11.6	30.95	360	0	P	V
		5458.56	48.09	-5.91	54	35.45	31.95	11.64	30.95	360	0	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	59.81	-8.39	68.2	59.88	39.82	17.31	57.2	100	0	P	H
		15780	58.2	-15.8	74	56.49	37.97	21.79	58.05	336	67	P	H
		15780	43.61	-10.39	54	41.9	37.97	21.79	58.05	336	67	A	H
													H
		10520	67.71	-0.49	68.2	67.78	39.82	17.31	57.2	314	342	P	V
		15780	58.5	-15.5	74	56.79	37.97	21.79	58.05	364	44	P	V
		15780	44.72	-9.28	54	43.01	37.97	21.79	58.05	364	44	A	V
													V
802.11a CH 60 5300MHz		10600	60.18	-13.82	74	60.04	39.92	17.4	57.18	251	95	P	H
		10600	46.61	-7.39	54	46.47	39.92	17.4	57.18	251	95	A	H
		15900	50.57	-23.43	74	48.68	37.82	21.88	57.81	100	0	P	H
													H
		10600	67.36	-6.64	74	67.22	39.92	17.4	57.18	279	339	P	V
		10600	53.74	-0.26	54	53.6	39.92	17.4	57.18	279	339	A	V
		15900	50.24	-23.76	74	48.35	37.82	21.88	57.81	100	0	P	V
													V
802.11a CH 64 5320MHz		10640	60.07	-13.93	74	59.82	39.97	17.45	57.17	254	96	P	H
		10640	46.22	-7.78	54	45.97	39.97	17.45	57.17	254	96	A	H
		15960	56.79	-17.21	74	54.78	37.74	21.94	57.67	210	52	P	H
		15960	41.97	-12.03	54	39.96	37.74	21.94	57.67	210	52	A	H
		10645	68.45	-5.55	74	68.2	39.97	17.45	57.17	275	340	P	V
		10645	53.46	-0.54	54	53.21	39.97	17.45	57.17	275	340	A	V
		15960	50.98	-23.02	74	48.97	37.74	21.94	57.67	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 802.11n HT20 (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)
802.11n HT20 CH 52 5260MHz		5123.5	58.59	-15.41	74	46.67	31.63	11.24	30.95	318	85	P	H
		5086.06	47.46	-6.54	54	35.56	31.58	11.27	30.95	318	85	A	H
	*	5260	89.71	-	-	77.63	31.77	11.26	30.95	318	85	P	H
	*	5260	81.09	-	-	69.01	31.77	11.26	30.95	318	85	A	H
		5367.12	58.95	-15.05	74	46.51	31.87	11.52	30.95	318	85	P	H
		5450.16	48.24	-5.76	54	35.6	31.95	11.64	30.95	318	85	A	H
		5057.46	58.52	-15.48	74	46.59	31.57	11.31	30.95	315	6	P	V
		5140.92	47.45	-6.55	54	35.54	31.65	11.21	30.95	315	6	A	V
	*	5260	93.06	-	-	80.98	31.77	11.26	30.95	315	6	P	V
	*	5260	84.36	-	-	72.28	31.77	11.26	30.95	315	6	A	V
		5365.92	59.41	-14.59	74	46.97	31.87	11.52	30.95	315	6	P	V
		5434.32	48.17	-5.83	54	35.55	31.93	11.64	30.95	315	6	A	V
802.11n HT20 CH 60 5300MHz		5051.22	58.7	-15.3	74	46.79	31.55	11.31	30.95	318	87	P	H
		5049.14	47.48	-6.52	54	35.57	31.55	11.31	30.95	318	87	A	H
	*	5300	90.01	-	-	77.81	31.8	11.35	30.95	318	87	P	H
	*	5300	82.15	-	-	69.95	31.8	11.35	30.95	318	87	A	H
		5434.32	61.03	-12.97	74	48.41	31.93	11.64	30.95	318	87	P	H
		5444.16	48.24	-5.76	54	35.62	31.93	11.64	30.95	318	87	A	H
		5111.54	59.02	-14.98	74	47.11	31.62	11.24	30.95	367	0	P	V
		5000	47.49	-6.51	54	35.6	31.5	11.34	30.95	367	0	A	V
	*	5300	92.2	-	-	80	31.8	11.35	30.95	367	0	P	V
	*	5300	82.19	-	-	69.99	31.8	11.35	30.95	367	0	A	V
		5413.44	59.91	-14.09	74	47.34	31.92	11.6	30.95	367	0	P	V
		5408.64	48.22	-5.78	54	35.67	31.9	11.6	30.95	367	0	A	V



802.11n HT20 CH 64 5320MHz	*	5320	90.59	-	-	78.29	31.82	11.43	30.95	336	72	P	H
	*	5320	80.57	-	-	68.27	31.82	11.43	30.95	336	72	A	H
		5374.4	59.61	-14.39	74	47.17	31.87	11.52	30.95	336	72	P	H
		5411.2	48.02	-5.98	54	35.47	31.9	11.6	30.95	336	72	A	H
													H
													H
	*	5320	92.86	-	-	80.56	31.82	11.43	30.95	358	0	P	V
	*	5320	82.68	-	-	70.38	31.82	11.43	30.95	358	0	A	V
		5392.32	59.58	-14.42	74	47.05	31.88	11.6	30.95	358	0	P	V
		5436.32	48.3	-5.7	54	35.68	31.93	11.64	30.95	358	0	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT20 CH 52 5260MHz		10520	57.36	-10.84	68.2	57.43	39.82	17.31	57.2	100	0	P	H
		15780	50.37	-23.63	74	48.66	37.97	21.79	58.05	100	0	P	H
													H
													H
		10520	67.34	-0.86	68.2	67.41	39.82	17.31	57.2	269	339	P	V
		15780	50.82	-23.18	74	49.11	37.97	21.79	58.05	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	59.59	-14.41	74	59.45	39.92	17.4	57.18	187	289	P	H
		10600	45.32	-8.68	54	45.18	39.92	17.4	57.18	187	289	A	H
		15900	48.49	-25.51	74	46.6	37.82	21.88	57.81	100	0	P	H
													H
		10600	66.91	-7.09	74	66.77	39.92	17.4	57.18	379	340	P	V
		10600	53.48	-0.52	54	53.34	39.92	17.4	57.18	379	340	A	V
		15900	47.92	-26.08	74	46.03	37.82	21.88	57.81	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	59.14	-14.86	74	58.89	39.97	17.45	57.17	197	119	P	H
		10640	45.55	-8.45	54	45.3	39.97	17.45	57.17	197	119	A	H
		15960	50.72	-23.28	74	48.71	37.74	21.94	57.67	100	0	P	H
													H
		10640	67.45	-6.55	74	67.2	39.97	17.45	57.17	270	340	P	V
		10640	53.79	-0.21	54	53.54	39.97	17.45	57.17	270	340	A	V
		15960	50.88	-23.12	74	48.87	37.74	21.94	57.67	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 802.11n HT40 (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)
802.11n HT40 CH 54 5270MHz		5114.4	58.86	-15.14	74	46.95	31.62	11.24	30.95	324	74	P	H
		5078.52	48.12	-5.88	54	36.22	31.58	11.27	30.95	324	74	A	H
	*	5270	89.08	-	-	76.91	31.77	11.35	30.95	324	74	P	H
	*	5270	80.97	-	-	68.8	31.77	11.35	30.95	324	74	A	H
		5415.84	60.1	-13.9	74	47.53	31.92	11.6	30.95	324	74	P	H
		5374.08	49.17	-4.83	54	36.73	31.87	11.52	30.95	324	74	A	H
		5099.58	58.76	-15.24	74	46.84	31.6	11.27	30.95	316	8	P	V
		5035.1	48.18	-5.82	54	36.29	31.53	11.31	30.95	316	8	A	V
	*	5270	93.83	-	-	81.66	31.77	11.35	30.95	316	8	P	V
	*	5270	84.08	-	-	71.91	31.77	11.35	30.95	316	8	A	V
		5409.84	59.3	-14.7	74	46.75	31.9	11.6	30.95	316	8	P	V
		5416.32	48.97	-5.03	54	36.4	31.92	11.6	30.95	316	8	A	V
802.11n HT40 CH 62 5310MHz		5140.4	58.62	-15.38	74	46.71	31.65	11.21	30.95	218	74	P	H
		5148.98	48.14	-5.86	54	36.23	31.65	11.21	30.95	218	74	A	H
	*	5310	89.93	-	-	77.63	31.82	11.43	30.95	218	74	P	H
	*	5310	81.06	-	-	68.76	31.82	11.43	30.95	218	74	A	H
		5443.92	59.25	-14.75	74	46.63	31.93	11.64	30.95	218	74	P	H
		5448	48.94	-5.06	54	36.3	31.95	11.64	30.95	218	74	A	H
		5008.84	58.25	-15.75	74	46.34	31.52	11.34	30.95	342	0	P	V
		5122.72	48.15	-5.85	54	36.23	31.63	11.24	30.95	342	0	A	V
	*	5310	91.6	-	-	79.3	31.82	11.43	30.95	342	0	P	V
	*	5310	82.39	-	-	70.09	31.82	11.43	30.95	342	0	A	V
		5366.16	59.51	-14.49	74	47.07	31.87	11.52	30.95	342	0	P	V
		5402.4	48.76	-5.24	54	36.21	31.9	11.6	30.95	342	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT40 CH 54 5270MHz		10540	62.04	-6.16	68.2	62.08	39.84	17.31	57.19	200	353	P	H
		15810	52	-22	74	50.23	37.93	21.82	57.98	100	0	P	H
													H
													H
		10540	67.98	-0.22	68.2	68.02	39.84	17.31	57.19	230	342	P	V
		15810	51.42	-22.58	74	49.65	37.93	21.82	57.98	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	60.5	-13.5	74	60.34	39.94	17.4	57.18	200	350	P	H
		10620	48.4	-5.6	54	48.24	39.94	17.4	57.18	200	350	A	H
		15930	53.2	-20.8	74	51.25	37.78	21.91	57.74	100	0	P	H
													H
		10620	66.08	-7.92	74	65.92	39.94	17.4	57.18	230	342	P	V
		10620	53.86	-0.14	54	53.7	39.94	17.4	57.18	230	342	A	V
		15930	51.02	-22.98	74	49.07	37.78	21.91	57.74	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 VHT80 (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 VHT80 CH 58 5290MHz		5082.68	59.44	-14.56	74	47.54	31.58	11.27	30.95	224	73	P	H
		5032.76	49.95	-4.05	54	38.06	31.53	11.31	30.95	224	73	A	H
	*	5290	89.51	-	-	77.33	31.78	11.35	30.95	224	73	P	H
	*	5290	79.62	-	-	67.44	31.78	11.35	30.95	224	73	A	H
		5442	59.15	-14.85	74	46.53	31.93	11.64	30.95	224	73	P	H
		5406	50	-4	54	37.45	31.9	11.6	30.95	224	73	A	H
		5120.64	59.04	-14.96	74	47.13	31.62	11.24	30.95	227	71	P	V
		5060.58	49.56	-4.44	54	37.67	31.57	11.27	30.95	227	71	A	V
	*	5290	90.45	-	-	78.27	31.78	11.35	30.95	227	71	P	V
	*	5290	81.66	-	-	69.48	31.78	11.35	30.95	227	71	A	V
		5418.96	60.18	-13.82	74	47.61	31.92	11.6	30.95	227	71	P	V
		5426.4	50.06	-3.94	54	37.45	31.92	11.64	30.95	227	71	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 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	58.22	-15.78	74	58.14	39.9	17.36	57.18	182	69	P	H
		10580	46.57	-7.43	54	46.49	39.9	17.36	57.18	182	69	A	H
		15870	44.51	-29.49	74	42.63	37.84	21.88	57.84	100	0	P	H
													H
		10580	63.99	-10.01	74	63.91	39.9	17.36	57.18	360	321	P	V
		10580	52.26	-1.74	54	52.18	39.9	17.36	57.18	360	321	A	V
		15870	43.7	-30.3	74	41.82	37.84	21.88	57.84	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 802.11a (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		5453.84	59.79	-14.21	74	47.15	31.95	11.64	30.95	228	73	P	H
		5405.68	48.08	-5.92	54	35.53	31.9	11.6	30.95	228	73	A	H
	*	5500	91.3	-	-	78.58	32	11.67	30.95	228	73	P	H
	*	5500	81.43	-	-	68.71	32	11.67	30.95	228	73	A	H
													H
													H
		5467.6	59.19	-14.81	74	46.5	31.97	11.67	30.95	305	30	P	V
		5456.24	48.13	-5.87	54	35.49	31.95	11.64	30.95	305	30	A	V
	*	5500	91.76	-	-	79.04	32	11.67	30.95	305	30	P	V
	*	5500	82.65	-	-	69.93	32	11.67	30.95	305	30	A	V
													V
													V
802.11a CH 116 5580MHz		5367.76	59.2	-14.8	74	46.76	31.87	11.52	30.95	314	67	P	H
		5469.28	48.26	-5.74	54	35.57	31.97	11.67	30.95	314	67	A	H
	*	5580	96.08	-	-	83.22	32.1	11.74	30.98	314	67	P	H
	*	5580	85.45	-	-	72.59	32.1	11.74	30.98	314	67	A	H
		5746.275	59.9	-14.1	74	46.73	32.34	11.86	31.03	314	67	P	H
		5755.375	48.61	-5.39	54	35.42	32.36	11.86	31.03	314	67	A	H
		5398.24	58.93	-15.07	74	46.38	31.9	11.6	30.95	308	29	P	V
		5418.88	48.04	-5.96	54	35.47	31.92	11.6	30.95	308	29	A	V
	*	5580	95.86	-	-	83	32.1	11.74	30.98	308	29	P	V
	*	5580	86.11	-	-	73.25	32.1	11.74	30.98	308	29	A	V
		5738.225	59.62	-14.38	74	46.47	32.34	11.84	31.03	308	29	P	V
		5763.95	48.57	-5.43	54	35.39	32.36	11.86	31.04	308	29	A	V



802.11a CH 140 5700MHz	*	5700	92.63	-	-	79.55	32.27	11.82	31.01	296	99	P	H
	*	5700	82.49	-	-	69.41	32.27	11.82	31.01	296	99	A	H
		5754.6	60.33	-7.87	68.2	47.14	32.36	11.86	31.03	296	99	P	H
													H
													H
													H
	*	5700	92.05	-	-	78.97	32.27	11.82	31.01	312	19	P	V
	*	5700	82.64	-	-	69.56	32.27	11.82	31.01	312	19	A	V
		5750.44	60.12	-8.08	68.2	46.95	32.34	11.86	31.03	312	19	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	61.4	-12.6	74	60.24	40.4	17.86	57.1	294	41	P	H
		11000	47.27	-6.73	54	46.11	40.4	17.86	57.1	294	41	A	H
		16500	44.74	-29.26	74	39.02	39.3	22.42	56	100	0	P	H
													H
		11000	67.39	-6.61	74	66.23	40.4	17.86	57.1	262	341	P	V
		11000	53.89	-0.11	54	52.73	40.4	17.86	57.1	262	341	A	V
		16500	45.24	-28.76	74	39.52	39.3	22.42	56	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	65.16	-8.84	74	64.15	40.3	18.04	57.33	301	37	P	H
		11160	51.47	-2.53	54	50.46	40.3	18.04	57.33	301	37	A	H
		16740	47.28	-26.72	74	40.7	40.07	22.65	56.14	100	0	P	H
													H
		11160	67.48	-6.52	74	66.47	40.3	18.04	57.33	319	339	P	V
		11160	53.74	-0.26	54	52.73	40.3	18.04	57.33	319	339	A	V
		16740	46.63	-27.37	74	40.05	40.07	22.65	56.14	100	0	P	V
													V
802.11a CH 140 5700MHz		11400	63.54	-10.46	74	62.73	40.16	18.31	57.66	312	95	P	H
		11400	49.04	-4.96	54	48.23	40.16	18.31	57.66	312	95	A	H
		17100	50.81	-17.39	68.2	43.26	41.22	22.99	56.66	100	0	P	H
													H
		11400	67.67	-6.33	74	66.86	40.16	18.31	57.66	385	360	P	V
		11400	53.56	-0.44	54	52.75	40.16	18.31	57.66	385	360	A	V
		17100	48.62	-19.58	68.2	41.07	41.22	22.99	56.66	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 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)
802.11n HT20 CH 100 5500MHz		5456.08	59.52	-14.48	74	46.88	31.95	11.64	30.95	317	67	P	H
		5456.24	48.24	-5.76	54	35.6	31.95	11.64	30.95	317	67	A	H
	*	5500	89.88	-	-	77.16	32	11.67	30.95	317	67	P	H
	*	5500	81.41	-	-	68.69	32	11.67	30.95	317	67	A	H
													H
													H
		5379.92	59.85	-14.15	74	47.4	31.88	11.52	30.95	308	30	P	V
		5425.52	48.16	-5.84	54	35.55	31.92	11.64	30.95	308	30	A	V
	*	5500	91.2	-	-	78.48	32	11.67	30.95	308	30	P	V
	*	5500	82.14	-	-	69.42	32	11.67	30.95	308	30	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5399.2	59.52	-14.48	74	46.97	31.9	11.6	30.95	325	66	P	H
		5439.28	48.16	-5.84	54	35.54	31.93	11.64	30.95	325	66	A	H
	*	5580	92.43	-	-	79.57	32.1	11.74	30.98	325	66	P	H
	*	5580	82.89	-	-	70.03	32.1	11.74	30.98	325	66	A	H
		5726.85	59.72	-14.28	74	46.59	32.31	11.84	31.02	325	66	P	H
		5751.35	48.61	-5.39	54	35.44	32.34	11.86	31.03	325	66	A	H
		5361.28	59.67	-14.33	74	47.23	31.87	11.52	30.95	331	22	P	V
		5465.68	48.1	-5.9	54	35.41	31.97	11.67	30.95	331	22	A	V
	*	5580	93.23	-	-	80.37	32.1	11.74	30.98	331	22	P	V
	*	5580	84.04	-	-	71.18	32.1	11.74	30.98	331	22	A	V
		5735.6	60.2	-13.8	74	47.05	32.34	11.84	31.03	331	22	P	V
		5725.45	48.65	-5.35	54	35.52	32.31	11.84	31.02	331	22	A	V



802.11n HT20 CH 140 5700MHz	*	5700	92.1	-	-	79.02	32.27	11.82	31.01	305	94	P	H
	*	5700	82.84	-	-	69.76	32.27	11.82	31.01	305	94	A	H
		5751	60.06	-13.94	74	46.89	32.34	11.86	31.03	305	94	P	H
		5741.64	48.63	-5.37	54	35.46	32.34	11.86	31.03	305	94	A	H
													H
													H
	*	5700	92.49	-	-	79.41	32.27	11.82	31.01	309	20	P	V
	*	5700	83.83	-	-	70.75	32.27	11.82	31.01	309	20	A	V
		5755.32	61.54	-12.46	74	48.35	32.36	11.86	31.03	309	20	P	V
		5751.88	48.84	-5.16	54	35.65	32.36	11.86	31.03	309	20	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT20 CH 100 5500MHz		11000	61.7	-12.3	74	60.54	40.4	17.86	57.1	251	96	P	H
		11000	47.27	-6.73	54	46.11	40.4	17.86	57.1	251	96	A	H
		16500	47.28	-26.72	74	41.56	39.3	22.42	56	100	0	P	H
													H
		11000	68.27	-5.73	74	67.11	40.4	17.86	57.1	263	340	P	V
		11000	53.87	-0.13	54	52.71	40.4	17.86	57.1	263	340	A	V
		16500	47.61	-26.39	74	41.89	39.3	22.42	56	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	62.23	-11.77	74	61.22	40.3	18.04	57.33	250	99	P	H
		11160	48.38	-5.62	54	47.37	40.3	18.04	57.33	250	99	A	H
		16740	46.63	-27.37	74	40.05	40.07	22.65	56.14	100	0	P	H
													H
		11160	68.13	-5.87	74	67.12	40.3	18.04	57.33	262	340	P	V
		11160	53.03	-0.97	54	52.02	40.3	18.04	57.33	262	340	A	V
		16740	46.17	-27.83	74	39.59	40.07	22.65	56.14	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	66.05	-7.95	74	65.24	40.16	18.31	57.66	234	80	P	H
		11400	51.31	-2.69	54	50.5	40.16	18.31	57.66	234	80	A	H
		17100	49.91	-24.09	74	42.36	41.22	22.99	56.66	100	0	P	H
													H
		11400	68.92	-5.08	74	68.11	40.16	18.31	57.66	394	257	P	V
		11400	53.38	-0.62	54	52.57	40.16	18.31	57.66	394	257	A	V
		17100	49.57	-24.43	74	42.02	41.22	22.99	56.66	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT40 CH 102 5510MHz		5364.16	59.59	-14.41	74	47.15	31.87	11.52	30.95	222	72	P	H
		5461.12	59.06	-9.14	68.2	46.39	31.95	11.67	30.95	222	72	P	H
		5421.28	49.06	-4.94	54	36.45	31.92	11.64	30.95	222	72	A	H
	*	5510	89.89	-	-	77.15	32	11.7	30.96	222	72	P	H
	*	5510	81.24	-	-	68.5	32	11.7	30.96	222	72	A	H
		5751.7	59.78	-8.42	68.2	46.59	32.36	11.86	31.03	222	72	P	H
		5434.24	59.58	-14.42	74	46.96	31.93	11.64	30.95	307	29	P	V
		5463.04	58.56	-9.64	68.2	45.87	31.97	11.67	30.95	307	29	P	V
		5385.52	48.96	-5.04	54	36.43	31.88	11.6	30.95	307	29	A	V
	*	5510	91.55	-	-	78.81	32	11.7	30.96	307	29	P	V
	*	5510	81.86	-	-	69.12	32	11.7	30.96	307	29	A	V
		5755.375	59.56	-8.64	68.2	46.37	32.36	11.86	31.03	307	29	P	V
802.11n HT40 CH 110 5550MHz		5450.32	60.43	-13.57	74	47.79	31.95	11.64	30.95	225	72	P	H
		5470	58.41	-9.79	68.2	45.72	31.97	11.67	30.95	225	72	P	H
		5428.48	48.91	-5.09	54	36.3	31.92	11.64	30.95	225	72	A	H
	*	5550	92.72	-	-	79.88	32.07	11.74	30.97	225	72	P	H
	*	5550	83.52	-	-	70.68	32.07	11.74	30.97	225	72	A	H
		5741.55	60.39	-7.81	68.2	47.22	32.34	11.86	31.03	225	72	P	H
		5434	60.04	-13.96	74	47.42	31.93	11.64	30.95	315	12	P	V
		5470	58.53	-9.67	68.2	45.84	31.97	11.67	30.95	315	12	P	V
		5397.04	48.81	-5.19	54	36.26	31.9	11.6	30.95	315	12	A	V
	*	5550	94.33	-	-	81.49	32.07	11.74	30.97	315	12	P	V
	*	5550	84.88	-	-	72.04	32.07	11.74	30.97	315	12	A	V
		5740.675	60.32	-7.88	68.2	47.15	32.34	11.86	31.03	315	12	P	V



802.11n HT40 CH 134 5670MHz		5422.96	59.62	-14.38	74	47.01	31.92	11.64	30.95	299	99	P	H
		5462.32	58.53	-9.67	68.2	45.86	31.95	11.67	30.95	299	99	P	H
		5410.48	48.88	-5.12	54	36.33	31.9	11.6	30.95	299	99	A	H
	*	5670	92.74	-	-	79.69	32.24	11.82	31.01	299	99	P	H
	*	5670	84.08	-	-	71.03	32.24	11.82	31.01	299	99	A	H
		5747.15	59.97	-8.23	68.2	46.8	32.34	11.86	31.03	299	99	P	H
		5450.8	60.37	-13.63	74	47.73	31.95	11.64	30.95	316	22	P	V
		5468.08	58.89	-9.31	68.2	46.2	31.97	11.67	30.95	316	22	P	V
		5444.08	49.1	-4.9	54	36.48	31.93	11.64	30.95	316	22	A	V
	*	5670	94.79	-	-	81.74	32.24	11.82	31.01	316	22	P	V
	*	5670	86.18	-	-	73.13	32.24	11.82	31.01	316	22	A	V
		5763.075	59.74	-8.46	68.2	46.56	32.36	11.86	31.04	316	22	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT40 CH 102 5510MHz		11015	58.97	-15.03	74	57.84	40.39	17.86	57.12	200	351	P	H
		11015	46.66	-7.34	54	45.53	40.39	17.86	57.12	200	351	A	H
		16530	45.2	-23	68.2	39.35	39.41	22.46	56.02	100	0	P	H
													H
		11020	65.88	-8.12	74	64.75	40.39	17.86	57.12	272	341	P	V
		11020	53.52	-0.48	54	52.39	40.39	17.86	57.12	272	341	A	V
		16530	45.83	-22.37	68.2	39.98	39.41	22.46	56.02	100	0	P	V
													V
802.11n HT40 CH 110 5550MHz		11100	62.2	-11.8	74	61.15	40.34	17.95	57.24	245	69	P	H
		11100	49.12	-4.88	54	48.07	40.34	17.95	57.24	245	96	A	H
		16650	49.46	-18.74	68.2	43.18	39.8	22.57	56.09	100	0	P	H
													H
		11100	65.89	-8.11	74	64.84	40.34	17.95	57.24	298	343	P	V
		11100	53.4	-0.6	54	52.35	40.34	17.95	57.24	298	343	A	V
		16650	49.61	-18.59	68.2	43.33	39.8	22.57	56.09	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	64.1	-9.9	74	63.25	40.2	18.22	57.57	188	74	P	H
		11340	51.61	-2.39	54	50.76	40.2	18.22	57.57	188	74	A	H
		17010	51.42	-16.78	68.2	43.92	40.95	22.91	56.36	100	0	P	H
													H
		11340	65.87	-8.13	74	65.02	40.2	18.22	57.57	304	338	P	V
		11340	53.55	-0.45	54	52.7	40.2	18.22	57.57	304	338	A	V
		17010	50.3	-17.9	68.2	42.8	40.95	22.91	56.36	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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		5384.8	59.93	-14.07	74	47.4	31.88	11.6	30.95	321	65	P	H
		5469.28	50.15	-3.85	54	37.46	31.97	11.67	30.95	321	65	A	H
	*	5532	88.61	-	-	75.83	32.05	11.7	30.97	321	65	P	H
	*	5532	77.97	-	-	65.19	32.05	11.7	30.97	321	65	A	H
		5737.525	60.18	-13.82	74	47.03	32.34	11.84	31.03	321	65	P	H
		5725.1	50.74	-3.26	54	37.61	32.31	11.84	31.02	321	65	A	H
		5405.92	59.92	-14.08	74	47.37	31.9	11.6	30.95	315	20	P	V
		5397.52	50.28	-3.72	54	37.73	31.9	11.6	30.95	315	20	A	V
	*	5532	89.22	-	-	76.44	32.05	11.7	30.97	315	20	P	V
	*	5532	78.68	-	-	65.9	32.05	11.7	30.97	315	20	A	V
		5764.3	59.54	-14.46	74	46.36	32.36	11.86	31.04	315	20	P	V
		5748.375	50.95	-3.05	54	37.78	32.34	11.86	31.03	315	20	A	V
802.11ac VHT80 CH 122 5610MHz		5386.48	59.16	-14.84	74	46.63	31.88	11.6	30.95	310	67	P	H
		5399.68	50.49	-3.51	54	37.94	31.9	11.6	30.95	310	67	A	H
	*	5608	93.07	-	-	80.15	32.14	11.77	30.99	310	67	P	H
	*	5608	82.7	-	-	69.78	32.14	11.77	30.99	310	67	A	H
		5738.4	59.53	-14.47	74	46.38	32.34	11.84	31.03	310	67	P	H
		5752.225	50.66	-3.34	54	37.47	32.36	11.86	31.03	310	67	A	H
		5401.12	58.95	-15.05	74	46.4	31.9	11.6	30.95	276	28	P	V
		5365.36	50.33	-3.67	54	37.89	31.87	11.52	30.95	276	28	A	V
	*	5608	93.96	-	-	81.04	32.14	11.77	30.99	276	28	P	V
	*	5608	83.38	-	-	70.46	32.14	11.77	30.99	276	28	A	V
		5734.375	59.87	-14.13	74	46.75	32.31	11.84	31.03	276	28	P	V
		5742.075	51.11	-2.89	54	37.94	32.34	11.86	31.03	276	28	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 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	57.98	-16.02	74	56.91	40.36	17.9	57.19	248	104	P	H
		11060	46.03	-7.97	54	44.96	40.36	17.9	57.19	248	104	A	H
		16590	44.85	-29.15	74	38.78	39.58	22.54	56.05	100	0	P	H
													H
		11060	59.21	-14.79	74	58.14	40.36	17.9	57.19	393	353	P	V
		11060	48.52	-5.48	54	47.45	40.36	17.9	57.19	393	353	A	V
		16590	45.36	-28.64	74	39.29	39.58	22.54	56.05	100	0	P	V
													V
802.11ac VHT80 CH 122 5610MHz		11220	62.55	-11.45	74	61.6	40.27	18.08	57.4	250	104	P	H
		11220	51.51	-2.49	54	50.56	40.27	18.08	57.4	250	104	A	H
		16830	50.29	-23.71	74	43.38	40.35	22.76	56.2	100	0	P	H
													H
		11220	64.54	-9.46	74	63.59	40.27	18.08	57.4	390	346	P	V
		11220	53.49	-0.51	54	52.54	40.27	18.08	57.4	390	346	A	V
		16830	48.37	-25.63	74	41.46	40.35	22.76	56.2	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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 144 5720MHz	*	5720	93.32	-	-	80.19	32.31	11.84	31.02	320	96	P	H
	*	5720	81.61	-	-	68.48	32.31	11.84	31.02	320	96	A	H
													H
													H
													H
													H
	*	5720	93.52	-	-	80.39	32.31	11.84	31.02	321	20	P	V
	*	5720	82.54	-	-	69.41	32.31	11.84	31.02	321	20	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (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 144 5720MHz		11440	62.21	-11.79	74	61.42	40.14	18.36	57.71	369	27	P	H
		11440	48.31	-5.69	54	47.52	40.14	18.36	57.71	369	27	A	H
		17160	49.45	-24.55	74	41.86	41.43	23.06	56.9	100	0	P	H
													H
		11440	66.63	-7.37	74	65.84	40.14	18.36	57.71	383	0	P	V
		11440	53.34	-0.66	54	52.55	40.14	18.36	57.71	383	0	A	V
		17160	48.58	-25.42	74	40.99	41.43	23.06	56.9	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT20 CH 144 5720MHz	*	5720	94.95	-	-	81.82	32.31	11.84	31.02	306	100	P	H
	*	5720	83.93	-	-	70.8	32.31	11.84	31.02	306	100	A	H
													H
													H
													H
													H
	*	5720	95.09	-	-	81.96	32.31	11.84	31.02	322	22	P	V
	*	5720	84.06	-	-	70.93	32.31	11.84	31.02	322	22	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT20 (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)
802.11n HT20 CH 144 5720MHz		11440	65.88	-8.12	74	65.09	40.14	18.36	57.71	311	100	P	H
		11440	51.48	-2.52	54	50.69	40.14	18.36	57.71	311	100	A	H
		17160	49.12	-24.88	74	41.53	41.43	23.06	56.9	100	0	P	H
													H
		11445	67.55	-6.45	74	66.76	40.14	18.36	57.71	384	314	P	V
		11445	53.8	-0.2	54	53.01	40.14	18.36	57.71	384	314	A	V
		17160	47.76	-26.24	74	40.17	41.43	23.06	56.9	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)
802.11n HT40 CH 142 5710MHz	*	5710	92.82	-	-	79.71	32.29	11.84	31.02	400	231	P	H
	*	5710	81.95	-	-	68.84	32.29	11.84	31.02	400	231	A	H
													H
													H
													H
													H
	*	5710	93.08	-	-	79.97	32.29	11.84	31.02	302	55	P	V
	*	5710	82.15	-	-	69.04	32.29	11.84	31.02	302	55	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT40 (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)
802.11n HT40 CH 142 5710MHz		11420	63.69	-10.31	74	62.91	40.15	18.31	57.68	308	100	P	H
		11420	51.36	-2.64	54	50.58	40.15	18.31	57.68	308	100	A	H
		17130	48.74	-25.26	74	41.17	41.33	23.02	56.78	100	0	P	H
													H
		11420	66.83	-7.17	74	66.05	40.15	18.31	57.68	377	350	P	V
		11420	53.86	-0.14	54	53.08	40.15	18.31	57.68	377	350	A	V
		17130	46.37	-27.63	74	38.8	41.33	23.02	56.78	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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 138 5690MHz	*	5690	92.51	-	-	79.43	32.27	11.82	31.01	396	230	P	H
	*	5690	82.25	-	-	69.17	32.27	11.82	31.01	396	230	A	H
													H
													H
													H
													H
	*	5690	92.62	-	-	79.54	32.27	11.82	31.01	330	21	P	V
	*	5690	82.64	-	-	69.56	32.27	11.82	31.01	330	21	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (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 138 5690MHz		11380	61.65	-12.35	74	60.85	40.17	18.27	57.64	243	106	P	H
		11380	50.48	-3.52	54	49.68	40.17	18.27	57.64	243	106	A	H
		17070	47.15	-26.85	74	39.59	41.11	22.99	56.54	100	0	P	H
													H
		11380	65.3	-8.7	74	64.5	40.17	18.27	57.64	396	354	P	V
		11380	53.65	-0.35	54	52.85	40.17	18.27	57.64	396	354	A	V
		17070	45.43	-28.57	74	37.87	41.11	22.99	56.54	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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 LF		97.23	34.23	-9.27	43.5	49.96	15.64	1.06	32.43			P	H
		149.88	35.47	-8.03	43.5	48.64	17.5	1.75	32.42			P	H
		212.52	41.81	-1.69	43.5	56.42	16.08	1.7	32.39	100	124	P	H
		212.52	36.62	-6.88	43.5	51.23	16.08	1.7	32.39	100	124	QP	H
		500.2	35.11	-10.89	46	40.32	24	3.19	32.4			P	H
		650	36.45	-9.55	46	39.24	26	3.61	32.4			P	H
		687.8	35.36	-10.64	46	37.65	26.3	3.82	32.41			P	H
													H
													H
													H
													H
													H
		40.8	34.78	-5.22	40	46.72	19.74	0.78	32.46			P	V
		58.08	34.13	-5.87	40	53.39	12.42	0.78	32.46			P	V
		212.52	41.54	-1.96	43.5	56.15	16.08	1.7	32.39	100	215	P	V
		212.52	37.53	-5.97	43.5	52.14	16.08	1.7	32.39	100	215	QP	V
		500.2	34.65	-11.35	46	39.86	24	3.19	32.4			P	V
		650	37.8	-8.2	46	40.59	26	3.61	32.4			P	V
		687.8	34.6	-11.4	46	36.89	26.3	3.82	32.41			P	V



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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix C. Radiated Spurious Emission

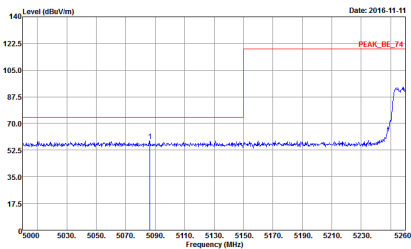
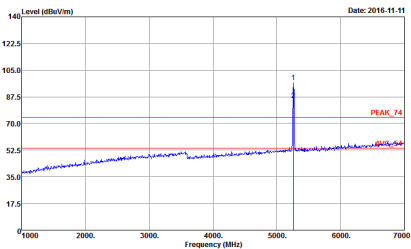
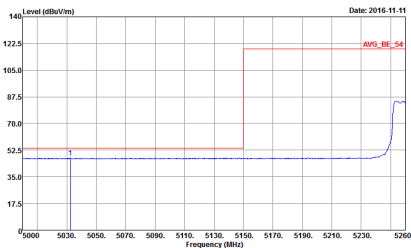
Test Engineer :	Peter Chiu, Karl Hou, and Nick Yu	Temperature :	22~24°C
		Relative Humidity :	54~58%

Note symbol

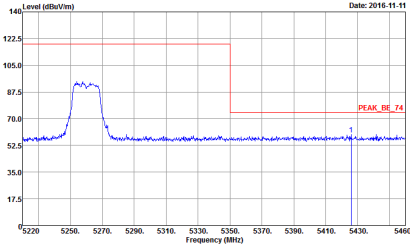
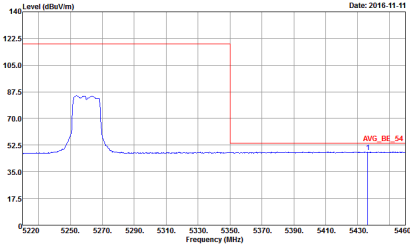
-L	Low channel location
-R	High channel location



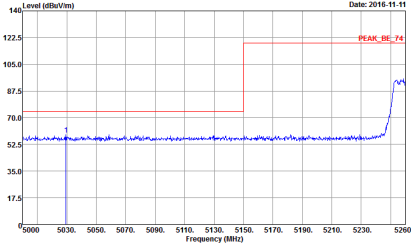
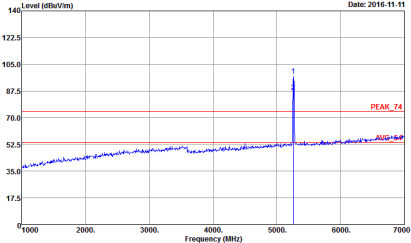
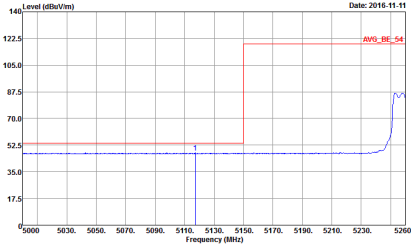
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

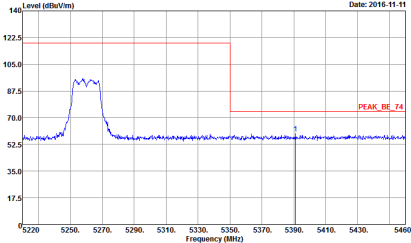
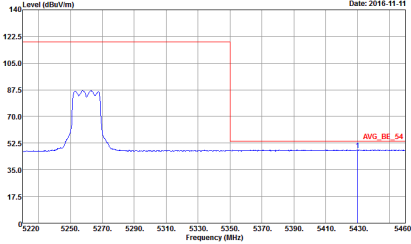


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 21
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	Left blank

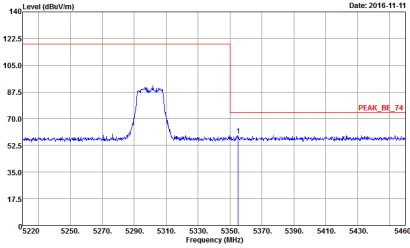
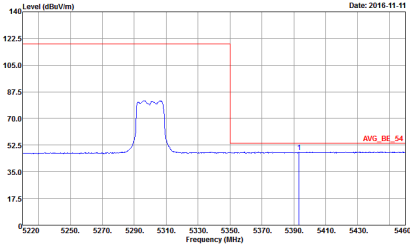


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 21	Left blank

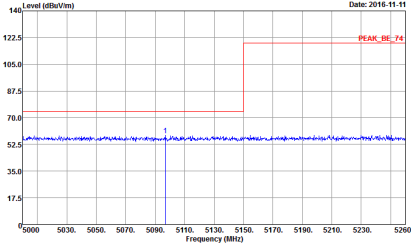
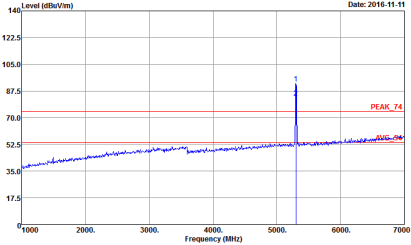
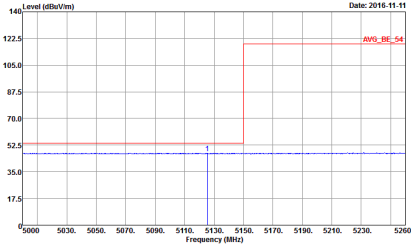


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22	Left blank

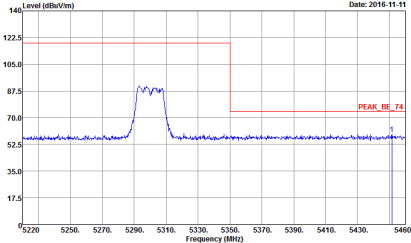
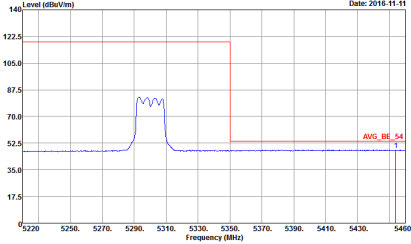


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 22	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 22	Left blank

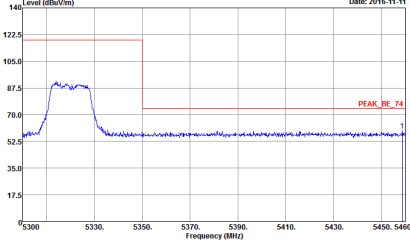
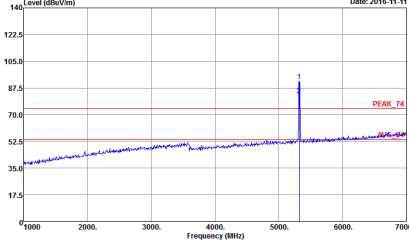
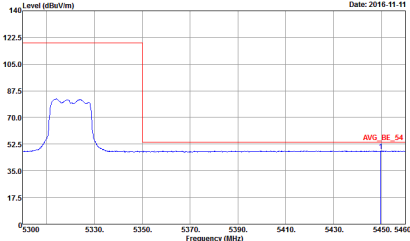


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 22	Left blank

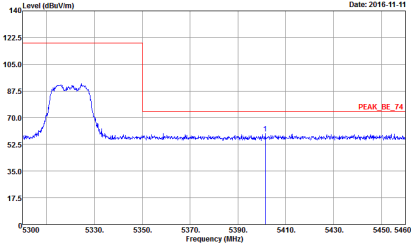
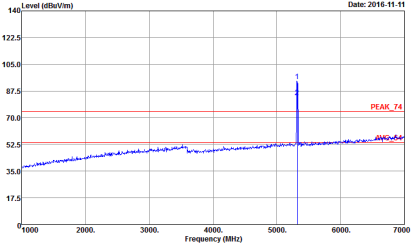
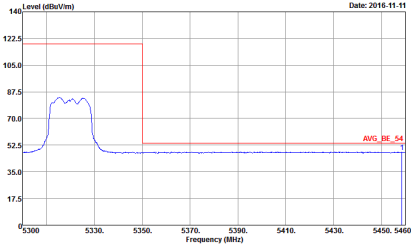


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 22	Left blank
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 22	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 23	 Site Condition : 03CH12-HY : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 23
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 23	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 23	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 23
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 23	Left blank

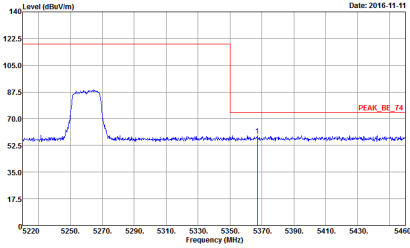
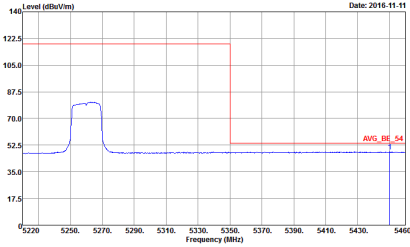


Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

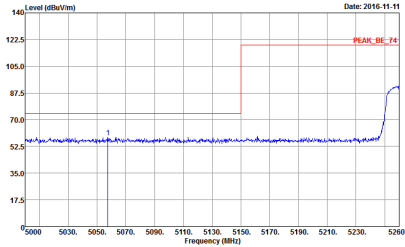
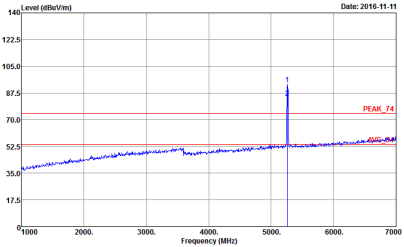
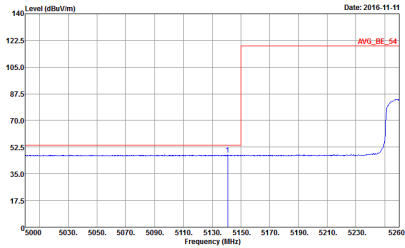
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 27	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 27
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 27	Left blank

3

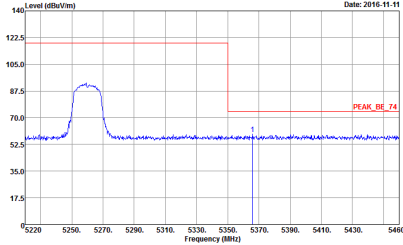
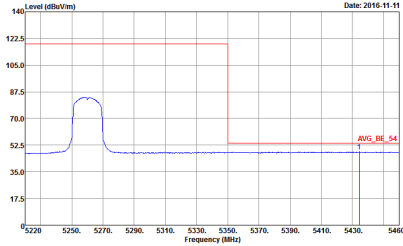


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 27	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 27	Left blank

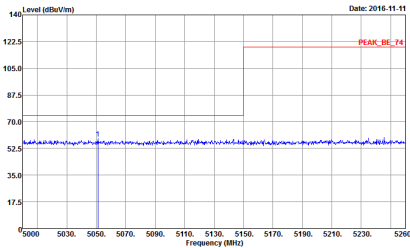
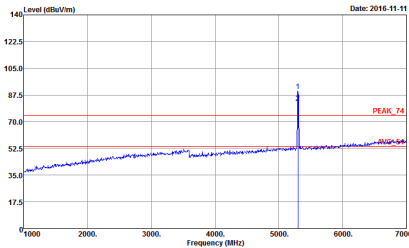
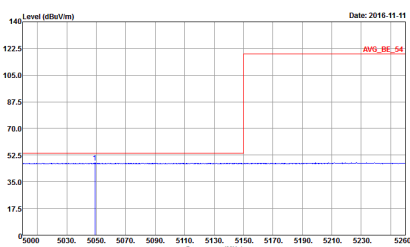


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

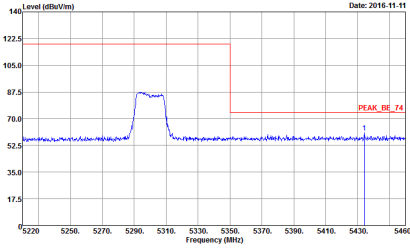
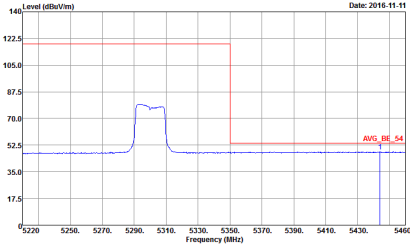


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 27	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 27	Left blank

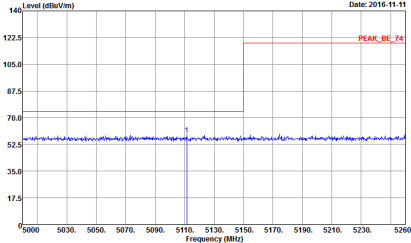
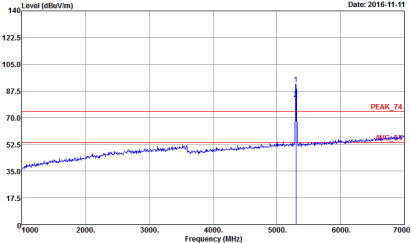
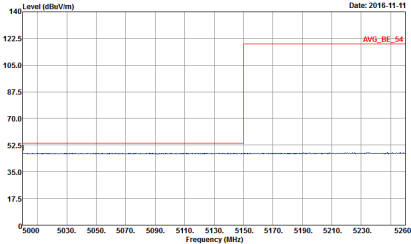


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 28
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	Left blank

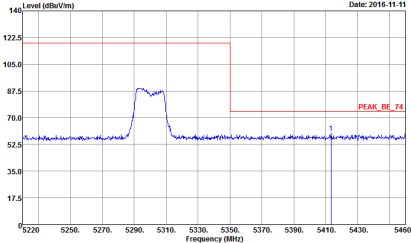
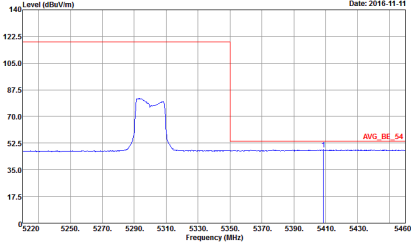


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	Left blank

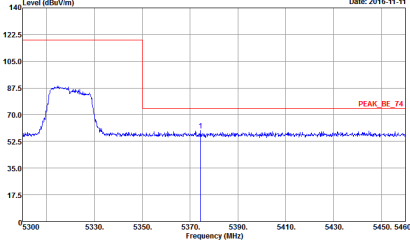
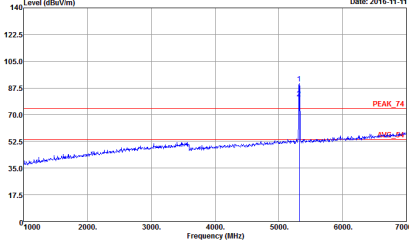
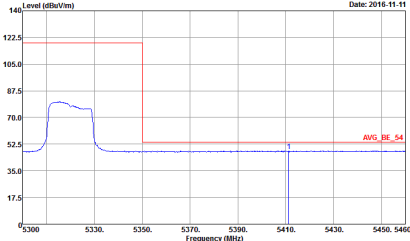


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 28
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 28	Left blank

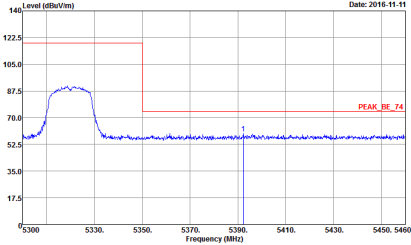
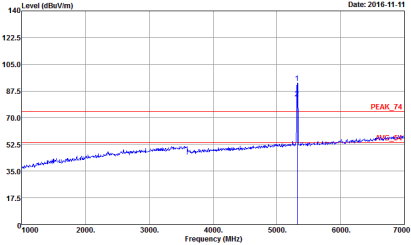
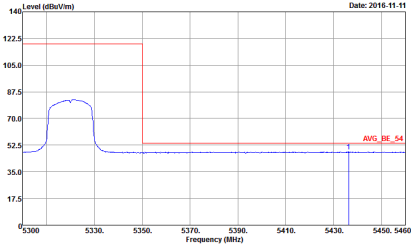


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank



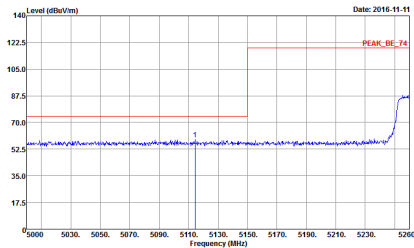
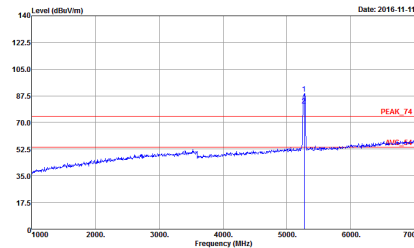
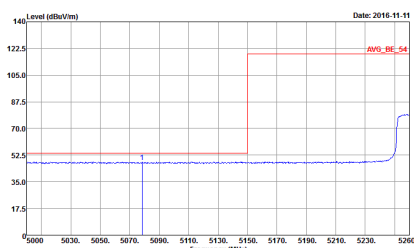
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 29	 Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 29
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 29	Left blank



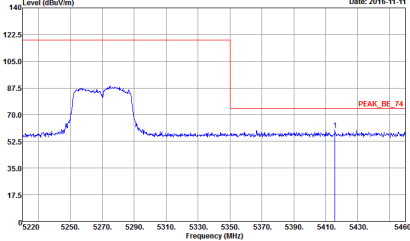
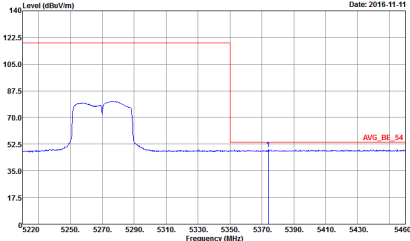
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 29	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 29
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 29	Left blank



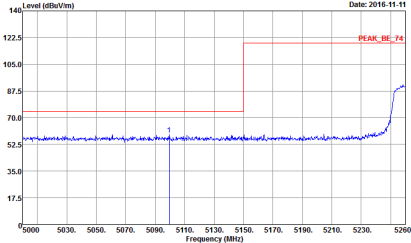
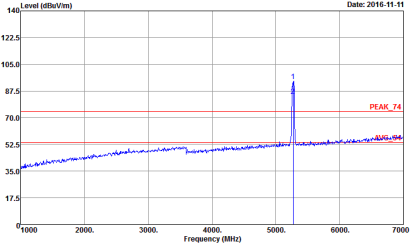
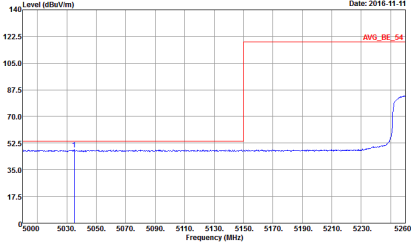
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 33	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 33
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 33	Left blank

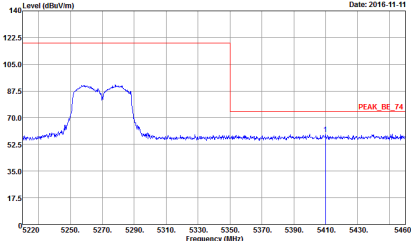
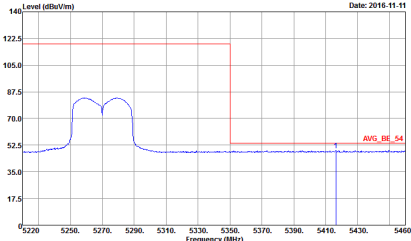


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	Left blank

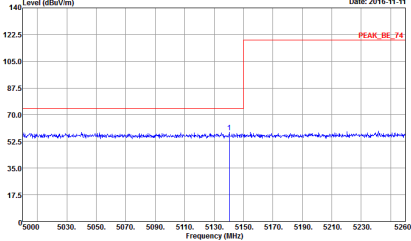
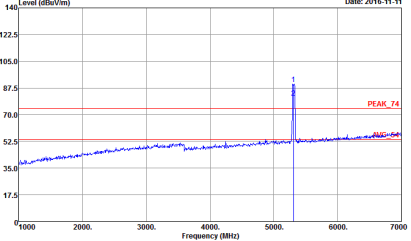
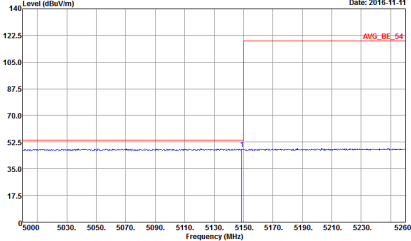


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 33
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	Left blank

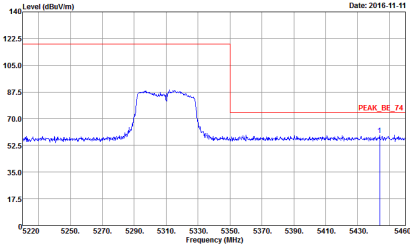
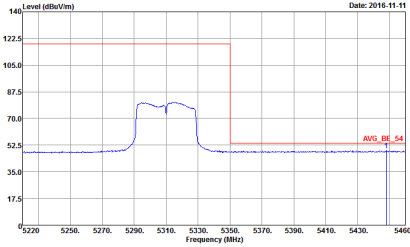


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	Left blank
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 600709 : 33	Left blank

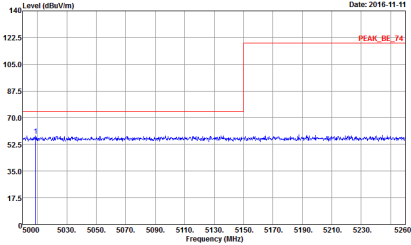
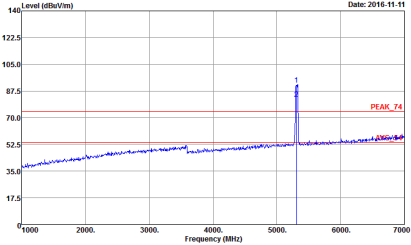
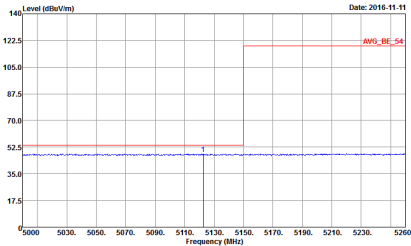


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank

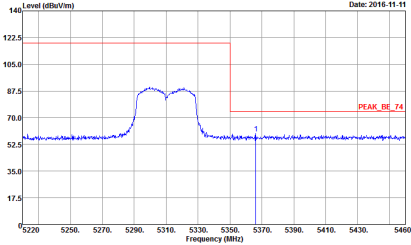
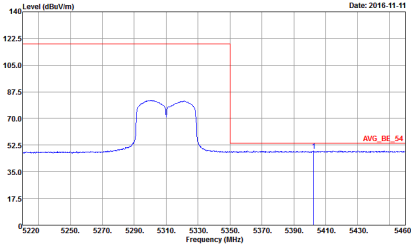


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank



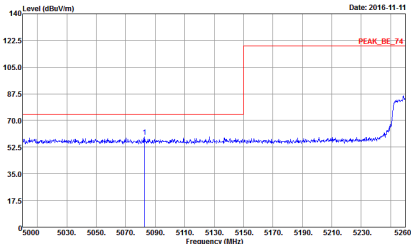
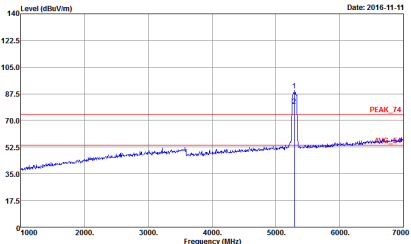
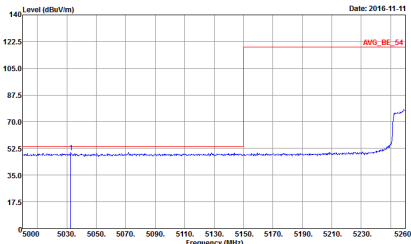
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank



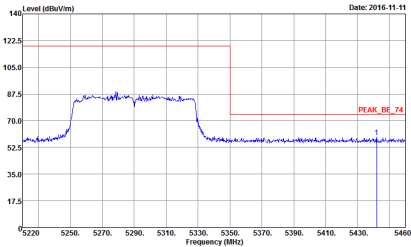
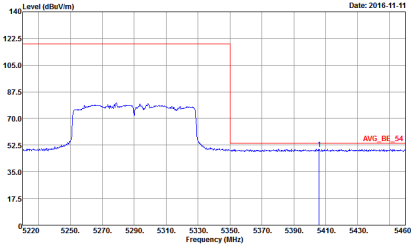
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 600709 : 34	Left blank



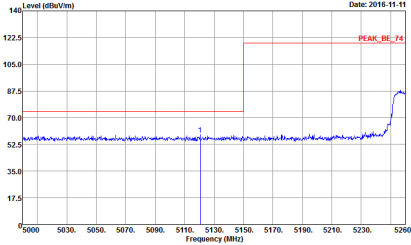
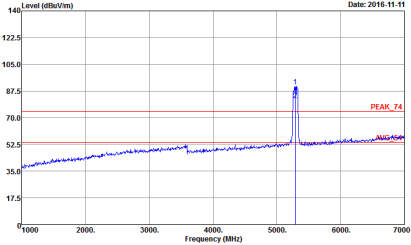
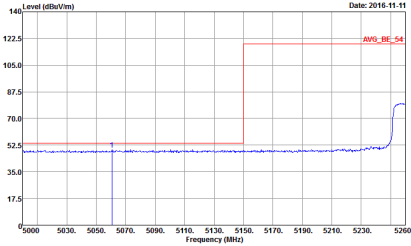
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 38	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 38
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 38	Left blank

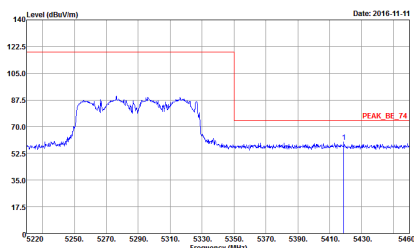
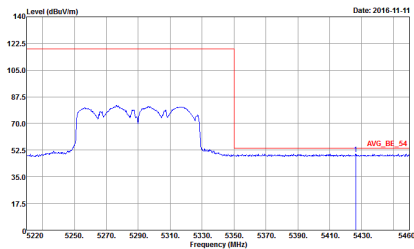


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 38
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	Left blank



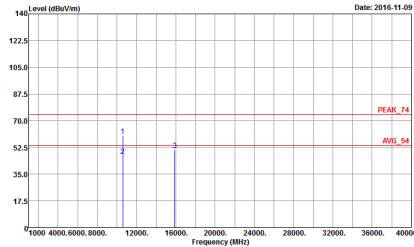
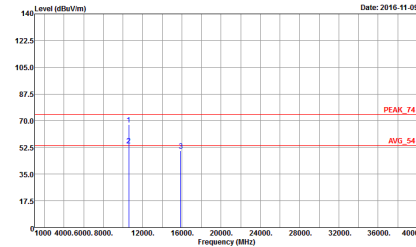
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 : 38	Left blank



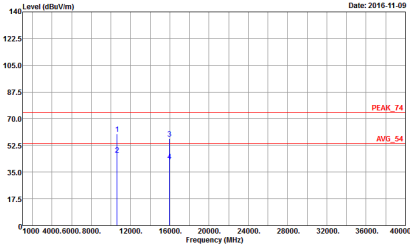
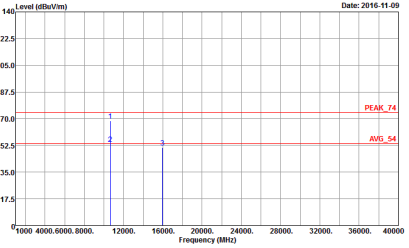
Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 21 Setting : 17	Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 21 Setting : 17



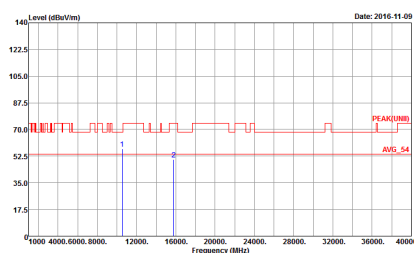
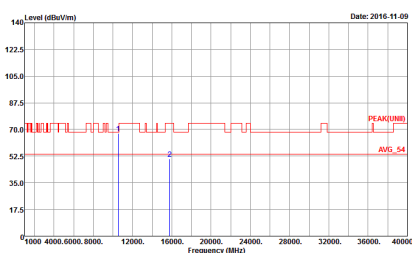
WIFI	Band 2 5250~5350MHz Harmonic @ 3m																									
ANT	802.11a CH60 5300MHz																									
1+2	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 22</td></tr><tr><td>Setting</td><td>: 14.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 22	Setting	: 14.5	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 22</td></tr><tr><td>Setting</td><td>: 14.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 22	Setting	: 14.5
	Site	: 03CH12-HY																								
Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 22																									
Setting	: 14.5																									
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 22																									
Setting	: 14.5																									



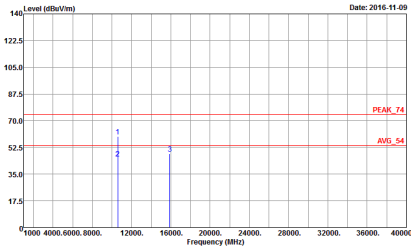
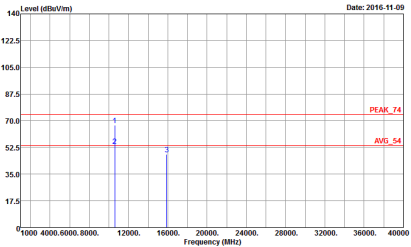
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 23 Setting : 14.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 23 Setting : 14.5



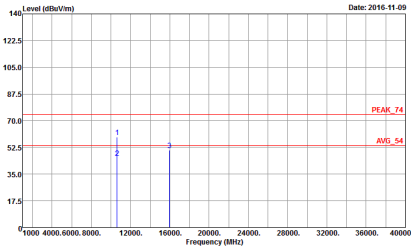
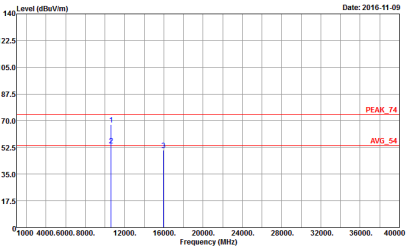
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m																									
ANT	802.11n HT20 CH52 5260MHz																									
1+2	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: 1 PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 27</td></tr><tr><td>Setting</td><td>: 15</td></tr></table>	Site	: 03CH12-HY	Condition	: 1 PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 27	Setting	: 15	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: 1 PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 27</td></tr><tr><td>Setting</td><td>: 15</td></tr></table>	Site	: 03CH12-HY	Condition	: 1 PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 27	Setting	: 15
	Site	: 03CH12-HY																								
Condition	: 1 PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 27																									
Setting	: 15																									
Site	: 03CH12-HY																									
Condition	: 1 PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 27																									
Setting	: 15																									



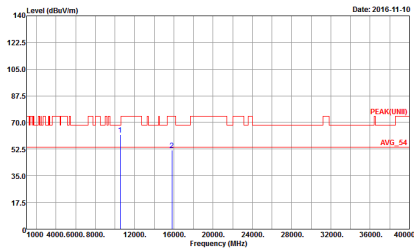
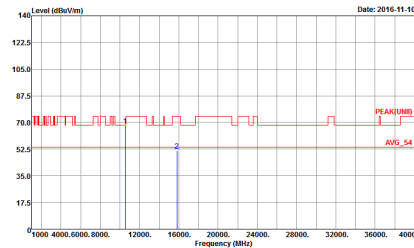
WIFI	Band 2 5250~5350MHz Harmonic @ 3m																									
ANT	802.11n HT20 CH60 5300MHz																									
1+2	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 2B</td></tr><tr><td>Setting</td><td>: 13.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 2B	Setting	: 13.5	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 2B</td></tr><tr><td>Setting</td><td>: 13.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 2B	Setting	: 13.5
	Site	: 03CH12-HY																								
Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 2B																									
Setting	: 13.5																									
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 2B																									
Setting	: 13.5																									



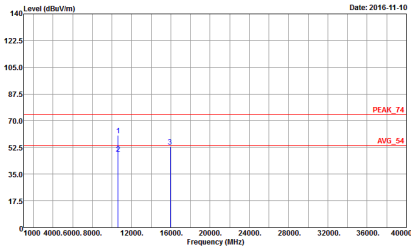
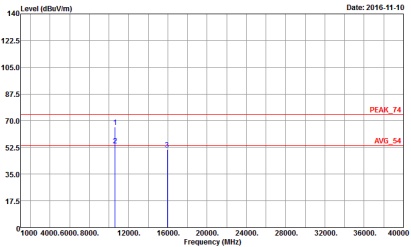
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 29 Setting : 14.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 29 Setting : 14.5



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

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UM) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 33 Setting : 17.5	 Site : 03CH12-HY Condition : PEAK(UM) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 33 Setting : 17.5



WIFI	Band 2 5250~5350MHz Harmonic @ 3m																									
ANT	802.11n HT40 CH62 5310																									
1+2	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 34</td></tr><tr><td>Setting</td><td>: 16.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 34	Setting	: 16.5	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 34</td></tr><tr><td>Setting</td><td>: 16.5</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 34	Setting	: 16.5
	Site	: 03CH12-HY																								
Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 34																									
Setting	: 16.5																									
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 34																									
Setting	: 16.5																									

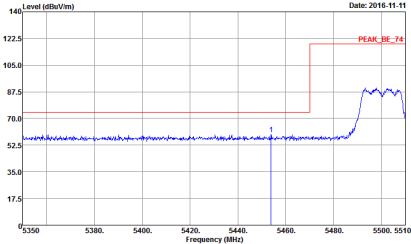
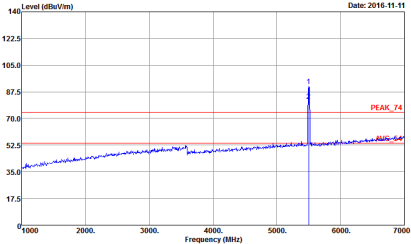
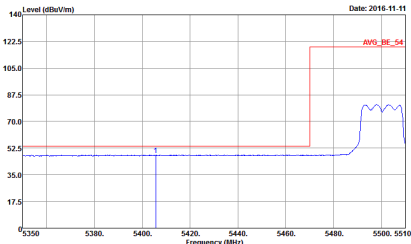


Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

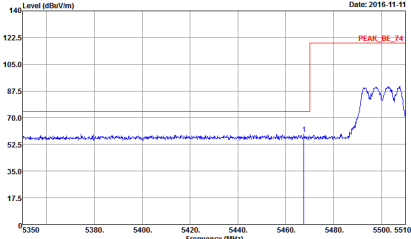
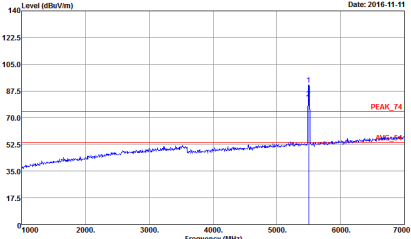
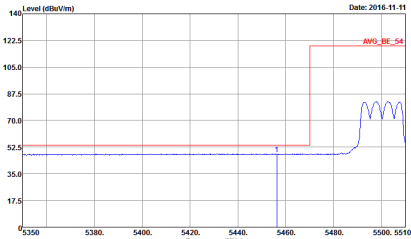
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 30 Setting : 17.5	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 30 Setting : 17.5



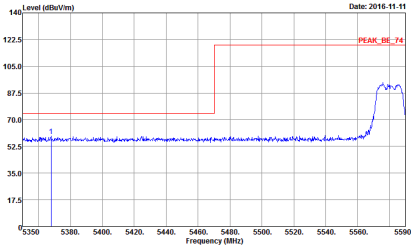
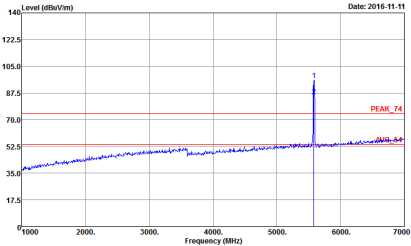
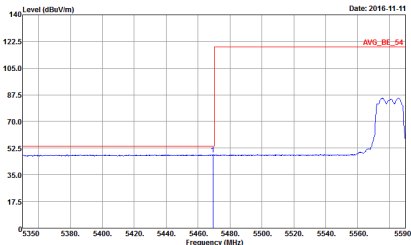
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

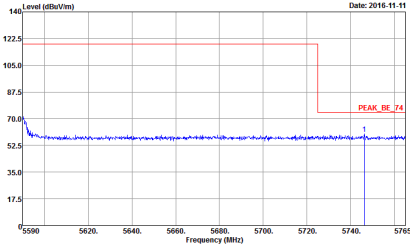
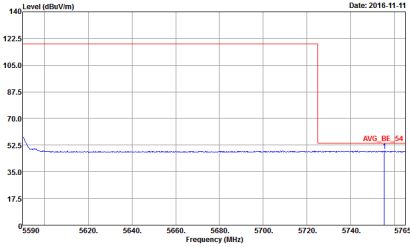


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 24	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 24
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 24	Left blank

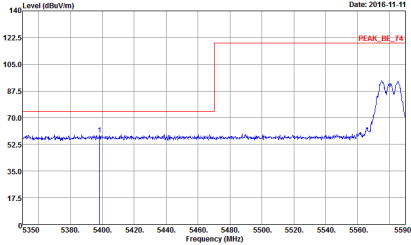
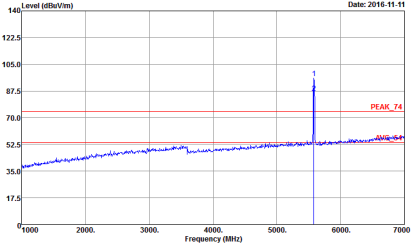
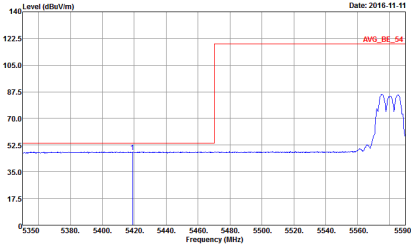


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank

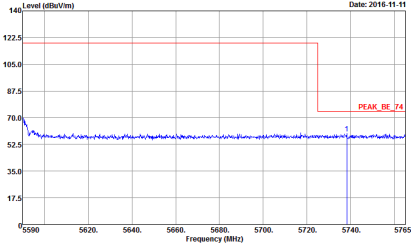
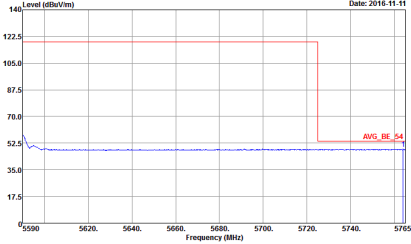


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank

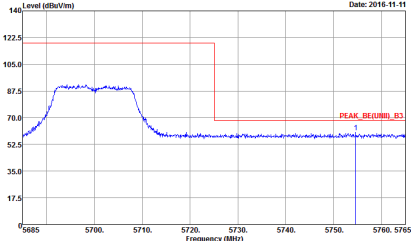
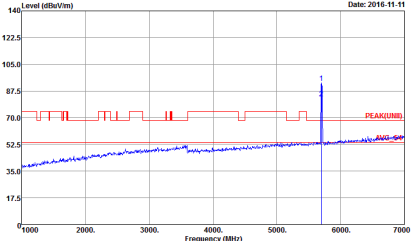


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 25	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 26	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 26



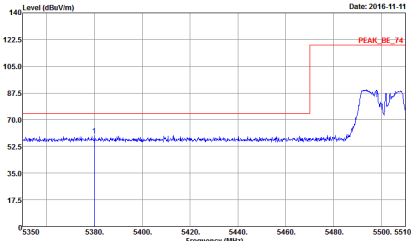
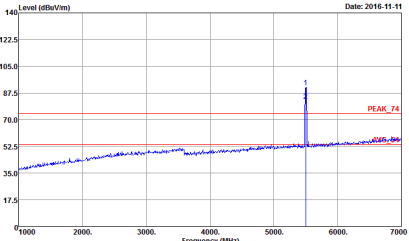
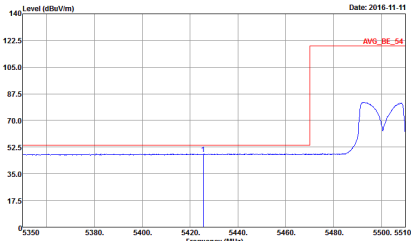
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11



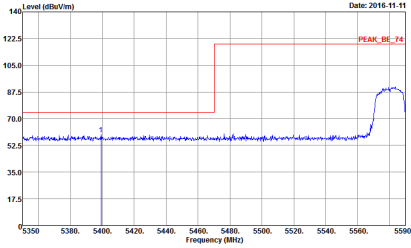
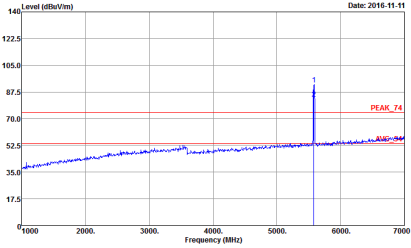
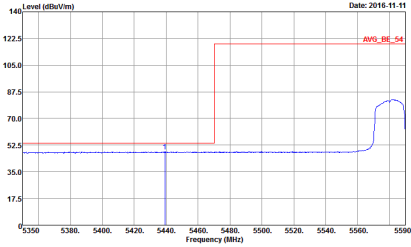
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_RE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 30	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 30
Avg.	Site : 03CH12-HY Condition : AVG_RE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 30	Left blank

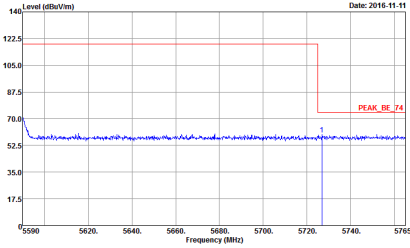
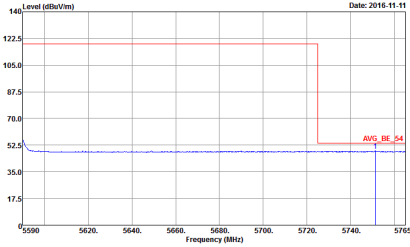


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY Detector : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Peak : 600709 : 30	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Peak : 600709 : 30
Avg.	 Site Condition : 03CH12-HY Detector : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Mode : Peak : 600709 : 30	Left blank

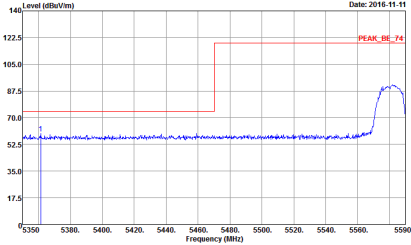
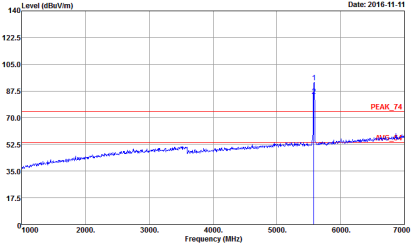
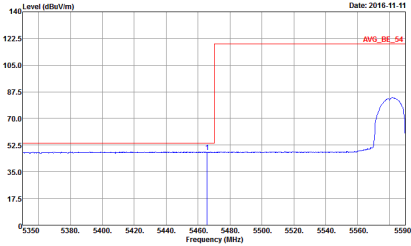


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 31	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 31
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 31	Left blank

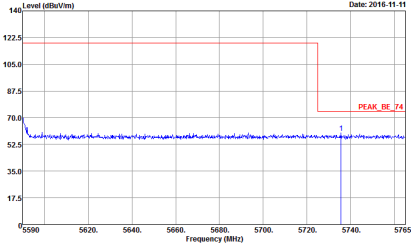
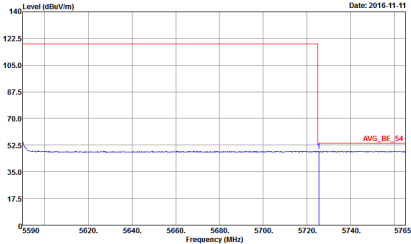


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 31	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 31	Left blank

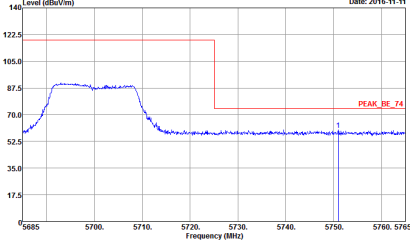
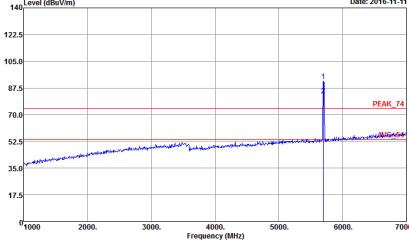
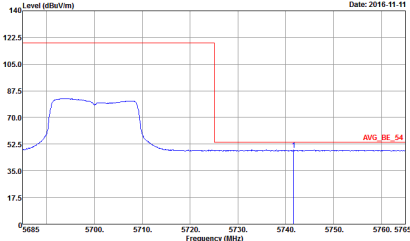


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

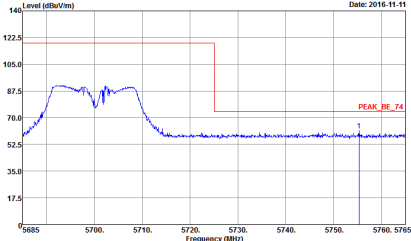
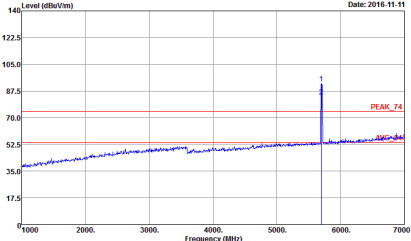
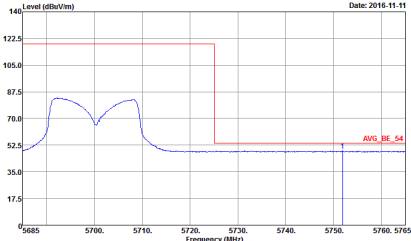


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 31	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 31	Left blank



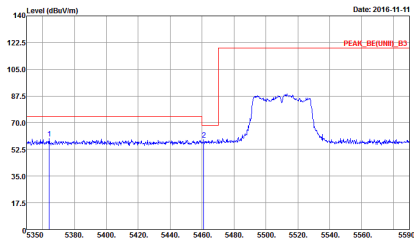
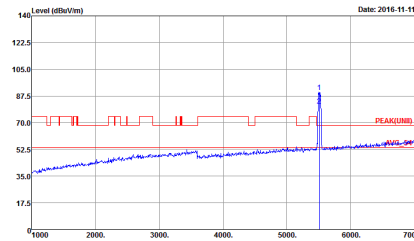
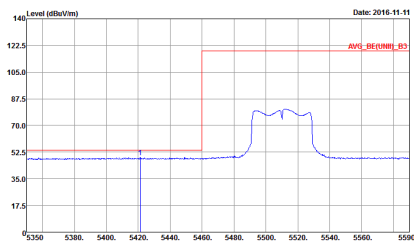
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 32	 Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 32
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 32	Left blank



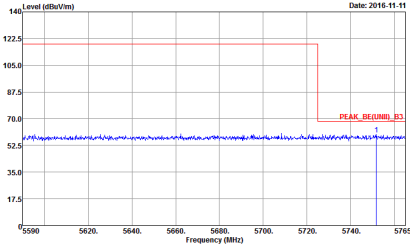
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 32	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 32
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 600709 : 32	Left blank



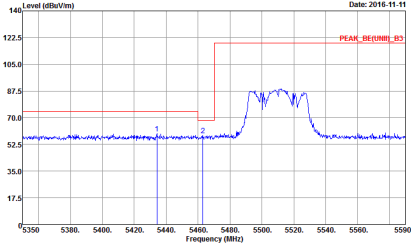
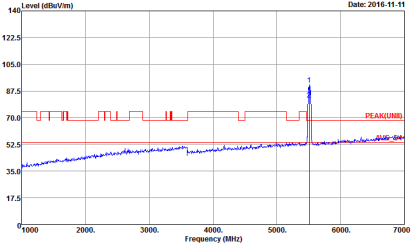
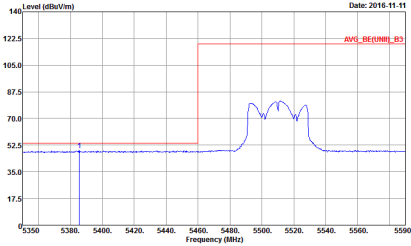
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : : Peak Project : : 600709 Mode : : 35	 Site : 03CH12-HY Condition : : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : : Peak Project : : 600709 Mode : : 35
Avg.	 Site : 03CH12-HY Condition : : AVG_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : : Peak Project : : 600709 Mode : : 35	Left blank

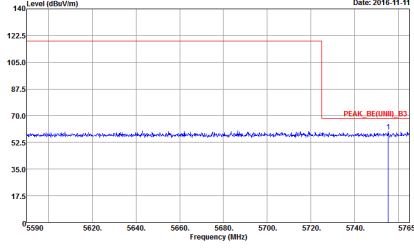


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

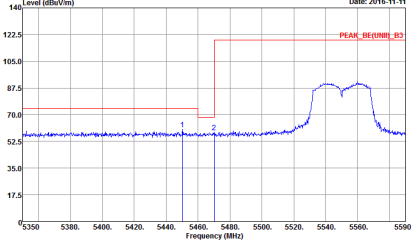
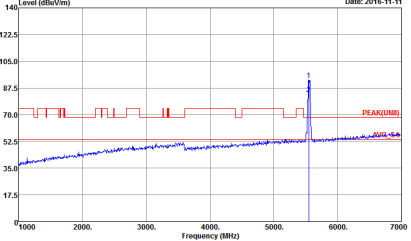
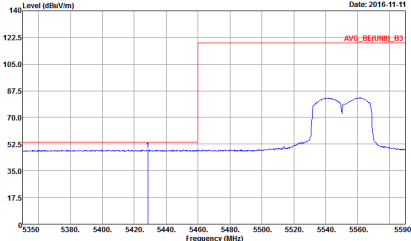


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 35	 Site Condition : 03CH12-HY : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 35
Avg.	 Site Condition : 03CH12-HY : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 35	Left blank

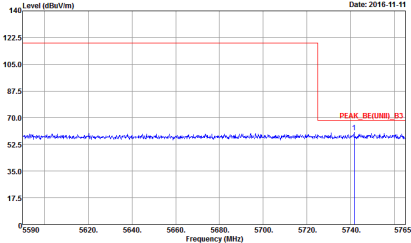


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 35	Left blank

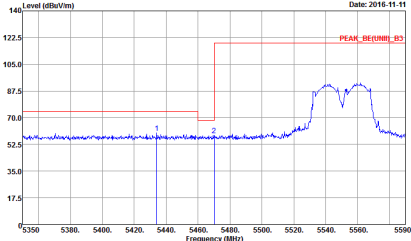
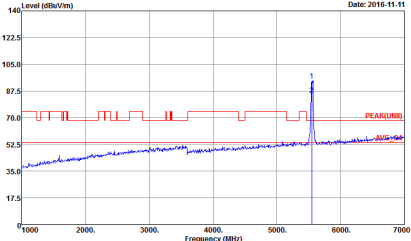
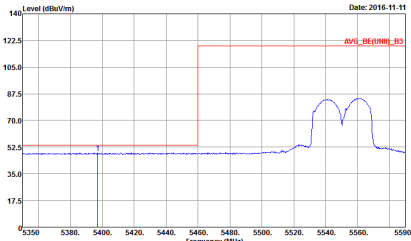


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 36	 Site Condition : 03CH12-HY : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 36
Avg.	 Site Condition : 03CH12-HY : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 36	Left blank

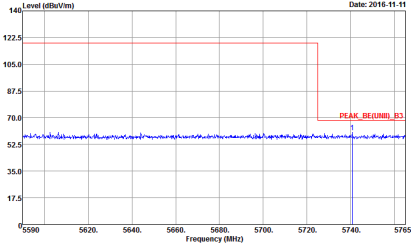


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 36	Left blank

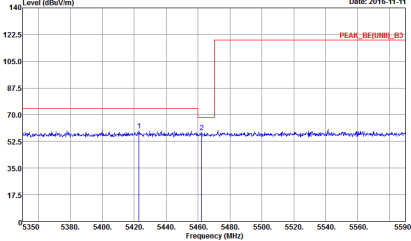
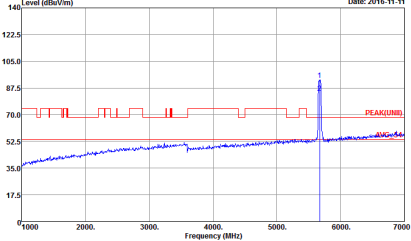
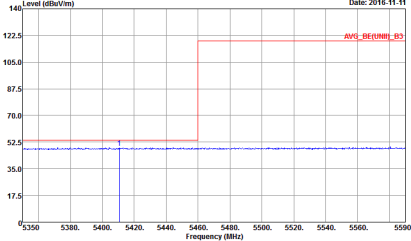


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY Detector : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Peak : 600709 : 36	 Site Condition : 03CH12-HY Detector : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Peak : 600709 : 36
Avg.	 Site Condition : 03CH12-HY Detector : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Peak : 600709 : 36	Left blank

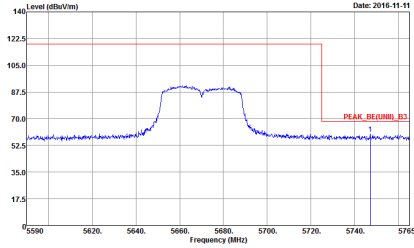


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 36	Left blank

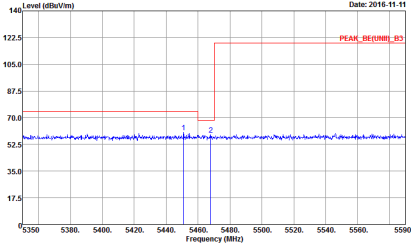
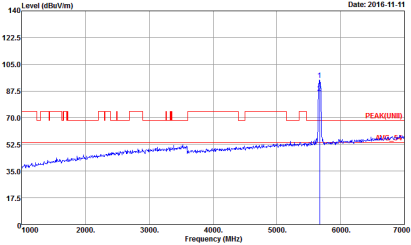
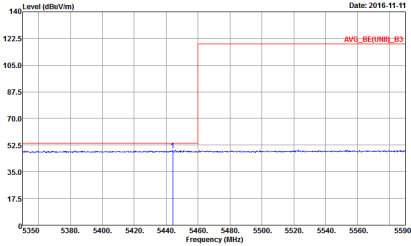


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 37	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 37
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 37	Left blank

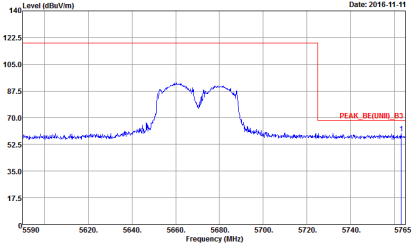


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

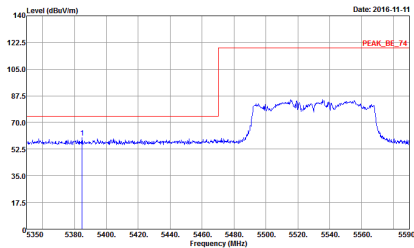
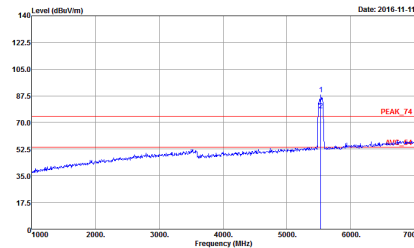
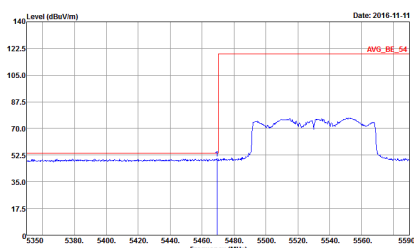


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

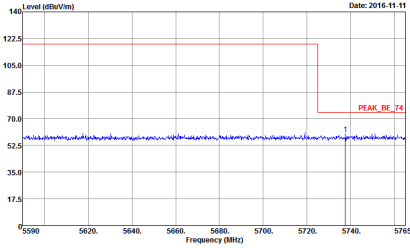
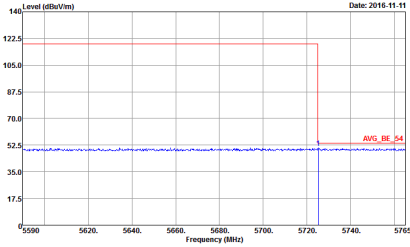


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 37	Left blank

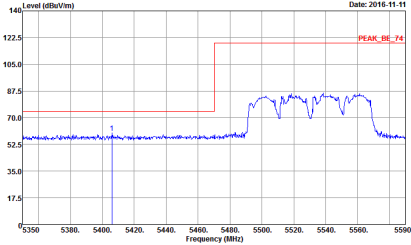
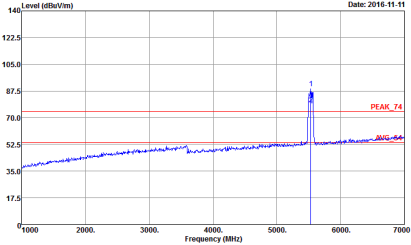
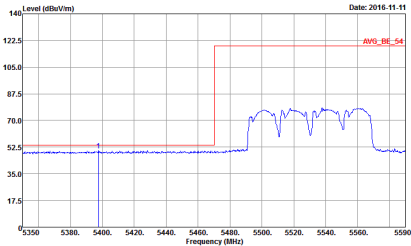
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39	Left blank

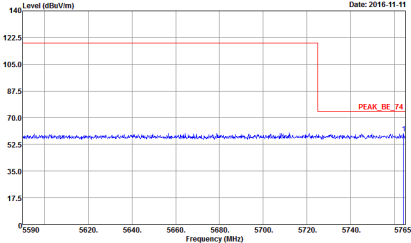
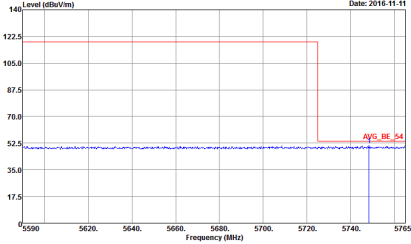


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39	Left blank

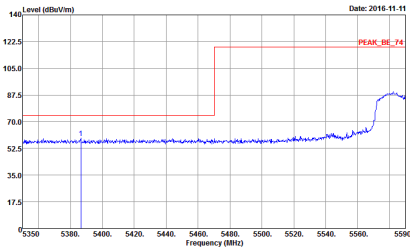
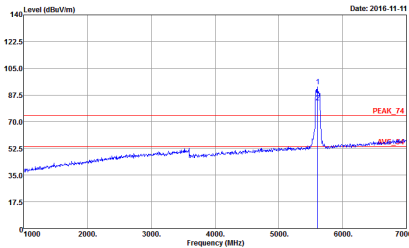
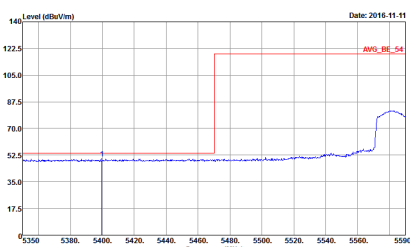


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 39	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 : 39
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 : 39	Left blank

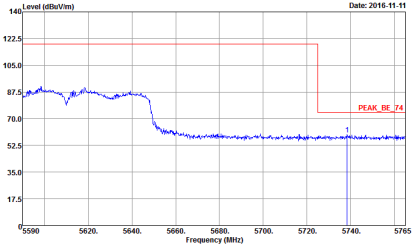
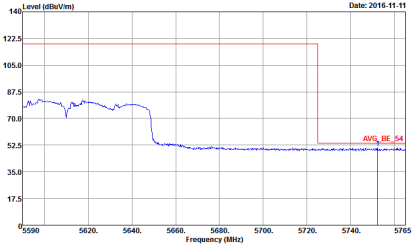


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

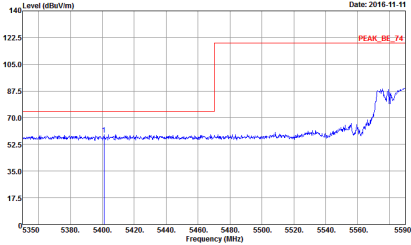
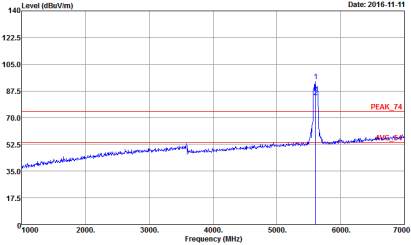
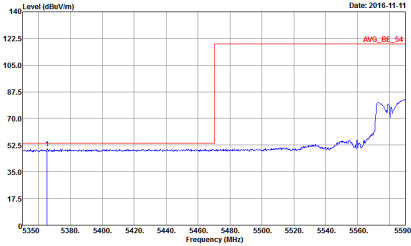


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank

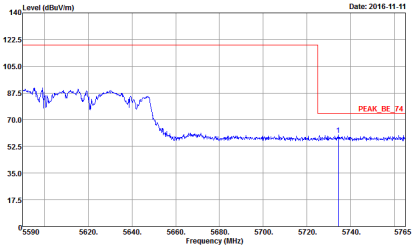
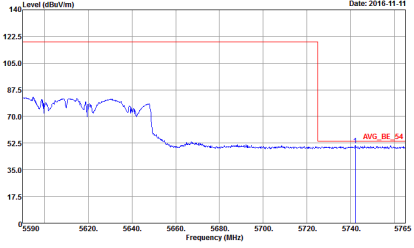


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank



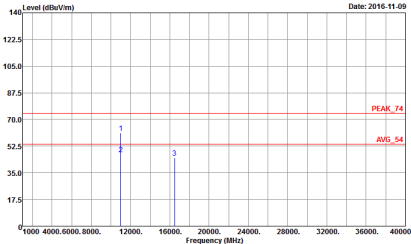
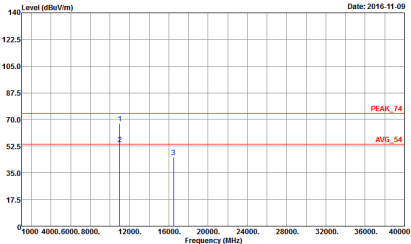
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank



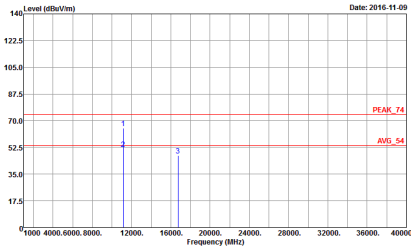
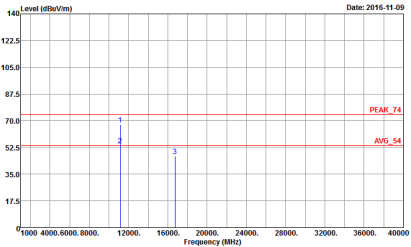
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	Left blank



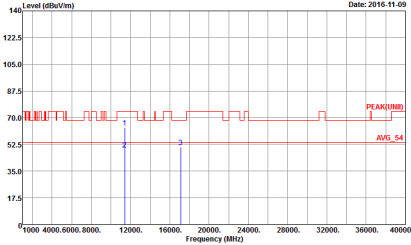
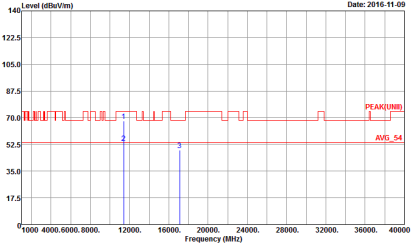
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 24 Setting : 14.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 24 Setting : 14.5



WIFI	Band 3 5470~5725MHz Harmonic @ 3m																									
ANT	802.11a CH116 5580MHz																									
1+2	Horizontal	Vertical																								
Peak Avg.	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 25</td></tr><tr><td>Setting</td><td>: 17</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 25	Setting	: 17	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 25</td></tr><tr><td>Setting</td><td>: 17</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 25	Setting	: 17
	Site	: 03CH12-HY																								
Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 25																									
Setting	: 17																									
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 25																									
Setting	: 17																									



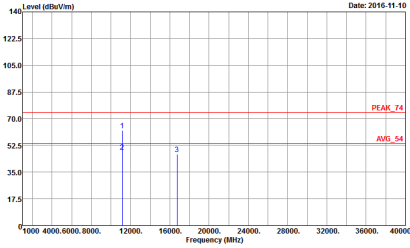
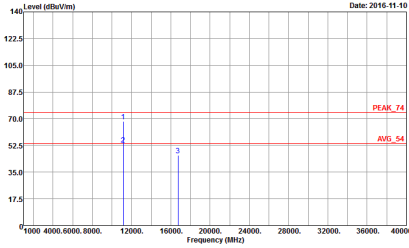
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK(UMI) 3m HORN_9120D_1328 HORIZONTAL Project : 600709 Mode : 26 Setting : 13.5	 Site Condition : 03CH12-HY Detector : PEAK(UMI) 3m HORN_9120D_1328 VERTICAL Project : 600709 Mode : 26 Setting : 13.5



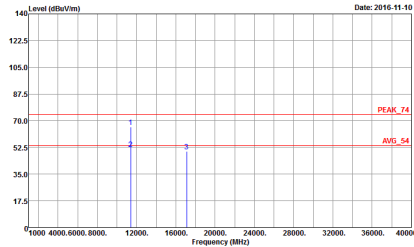
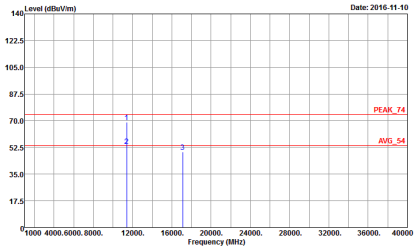
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-11-10 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 30 Setting : 15	Level (dBu/m) Date: 2016-11-10 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 30 Setting : 15



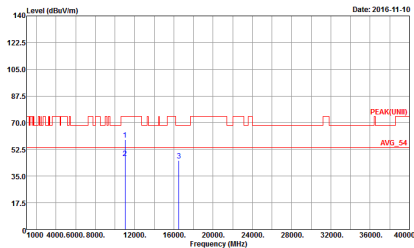
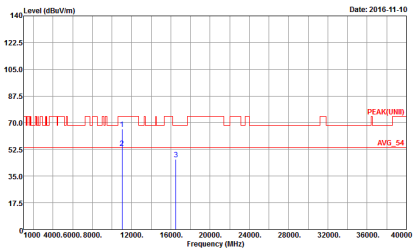
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 31 Setting : 14.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 31 Setting : 14.5



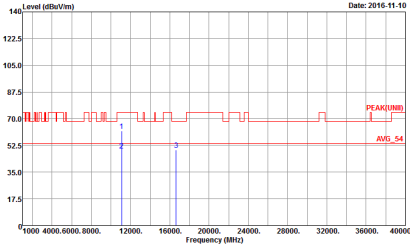
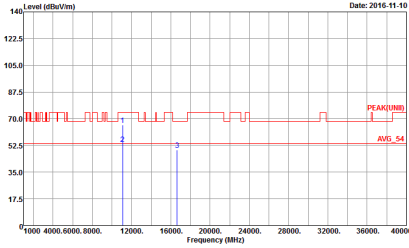
WIFI	Band 3 5470~5725MHz Harmonic @ 3m																									
ANT	802.11n HT20 CH140 5700MHz																									
1+2	Horizontal	Vertical																								
Peak	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 HORIZONTAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 32</td></tr><tr><td>Setting</td><td>: 15</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL	Detector	: Peak	Project	: 600709	Mode	: 32	Setting	: 15	<table><tr><td>Site</td><td>: 03CH12-HY</td></tr><tr><td>Condition</td><td>: PEAK_74 3m HORN_9120D_1328 VERTICAL</td></tr><tr><td>Detector</td><td>: Peak</td></tr><tr><td>Project</td><td>: 600709</td></tr><tr><td>Mode</td><td>: 32</td></tr><tr><td>Setting</td><td>: 15</td></tr></table>	Site	: 03CH12-HY	Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL	Detector	: Peak	Project	: 600709	Mode	: 32	Setting	: 15
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 HORIZONTAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 32																									
Setting	: 15																									
Site	: 03CH12-HY																									
Condition	: PEAK_74 3m HORN_9120D_1328 VERTICAL																									
Detector	: Peak																									
Project	: 600709																									
Mode	: 32																									
Setting	: 15																									
Avg.																										



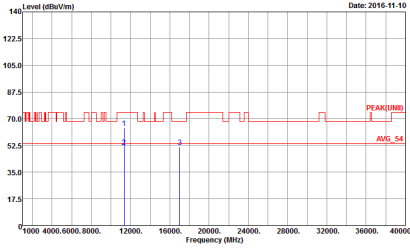
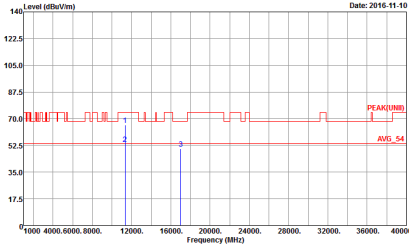
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 35 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 35 Setting : 17



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 36 Setting : 18.5	 Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 36 Setting : 18.5



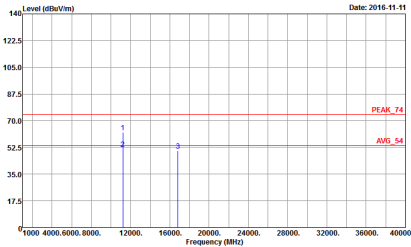
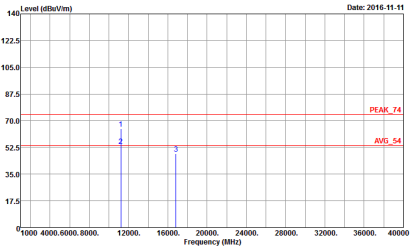
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 37 Setting : 17.5	 Site : 03CH12-HY Condition : PEAK(UMI) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 37 Setting : 17.5



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

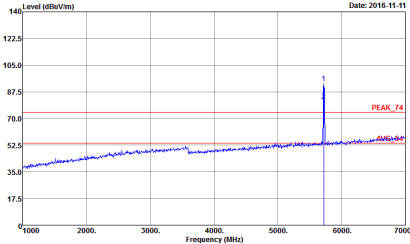
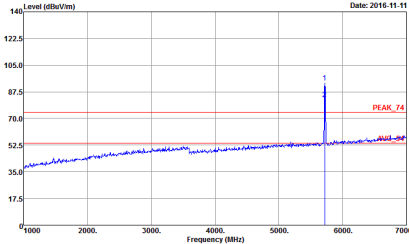
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 39 Setting : 15.5	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 39 Setting : 15.5



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 40 Setting : 19	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 40 Setting : 19

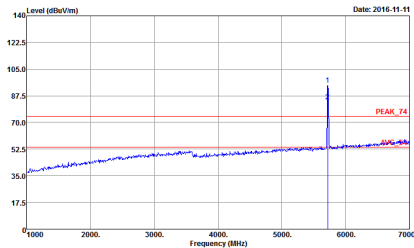
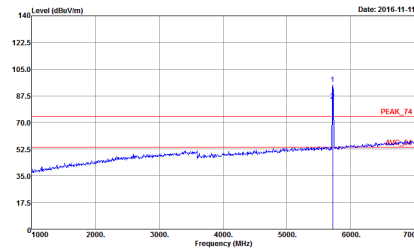


Band 3 - Straddle Channel
WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 600709 Date: 2016-11-11

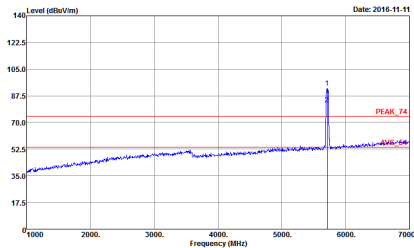
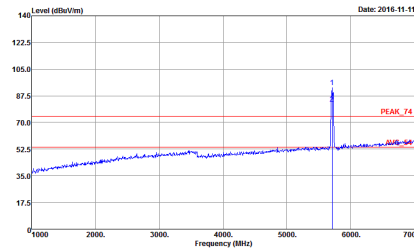


Band 3 – Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1320 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 42	 Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1320 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 42



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

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 43	 Site : 03CH12-HY Condition : PEAK_74 3m HORN, 9120D, 1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 600709 Mode : 43

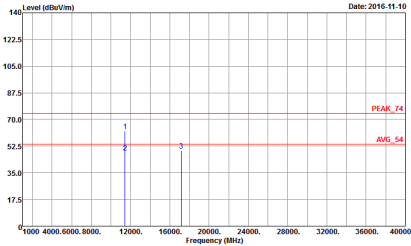
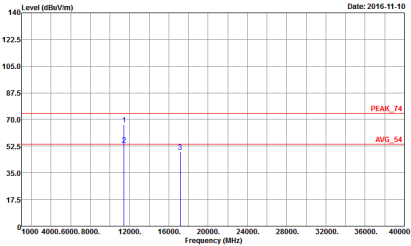


Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 44	Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1328 VERTICAL Detector : Peak Project : 600709 Mode : 44



Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 41 Setting : 13.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 41 Setting : 13.5



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

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-11-10 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 42 Setting : 15	Level (dBu/m) Date: 2016-11-10 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 42 Setting : 15



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

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 43 Setting : 16.5	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 43 Setting : 16.5

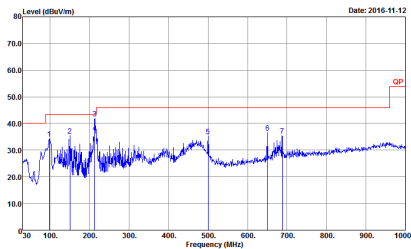
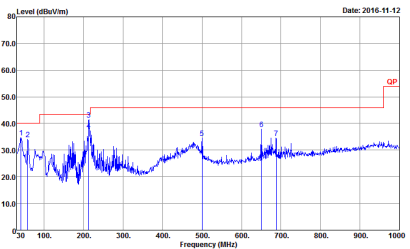


Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 44 Setting : 17.5	140 Level (dBuV/m) Date: 2016-11-11 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 44 Setting : 17.5

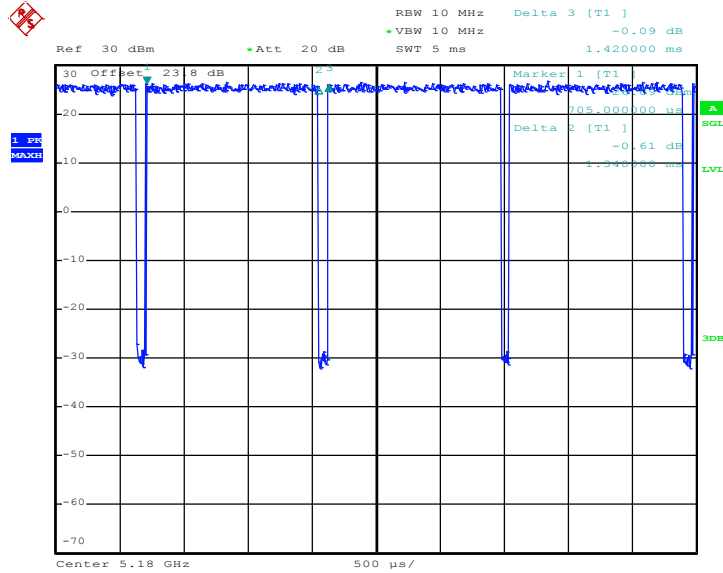


Emission below 1GHz
5GHz WIFI 802.11a (LF)

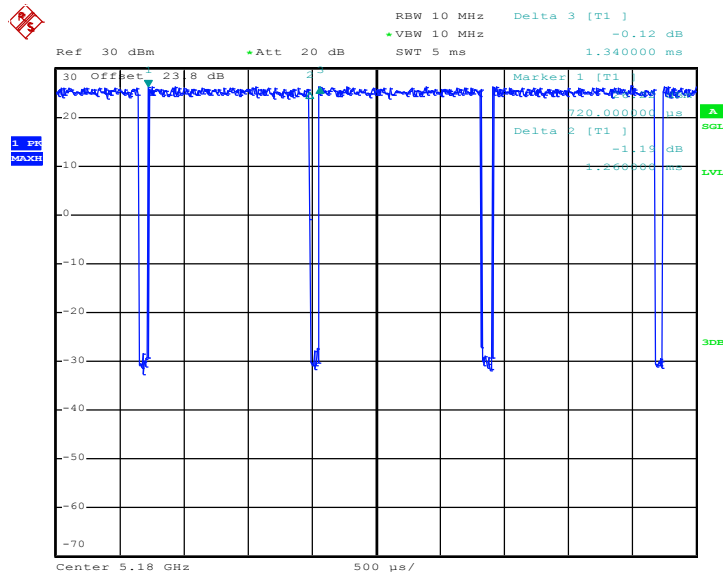
WIFI	5GHz WIFI	
ANT	802.11a LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 HORIZONTAL Detector : Peak Project : 600709 Mode : 45	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 VERTICAL Detector : Peak Project : 600709 Mode : 45

Appendix D. Duty Cycle Plots

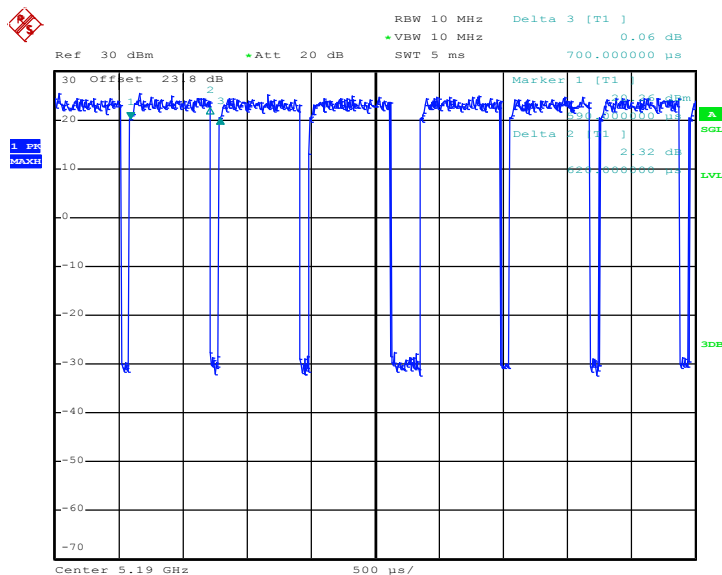
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11a for Ant 1	94.37	1340	0.746268657	1kHz
1+2	802.11a for Ant 2	95.07	1350	0.740740741	1kHz
1+2	5GHz 802.11n HT20 for Ant 1	94.03	1260	0.793650794	1kHz
1+2	5GHz 802.11n HT20 for Ant 2	94.78	1270	0.787401575	1kHz
1+2	5GHz 802.11n HT40 for Ant 1	88.57	620	1.612903226	3kHz
1+2	5GHz 802.11n HT40 for Ant 2	90.00	630	1.587301587	3kHz
1+2	5GHz 802.11ac VHT80 for Ant 1	81.44	316	3.164556962	10kHz
1+2	5GHz 802.11ac VHT80 for Ant 2	81.25	312	3.205128205	10kHz

MIMO <Ant. 1+2(1)>
802.11a


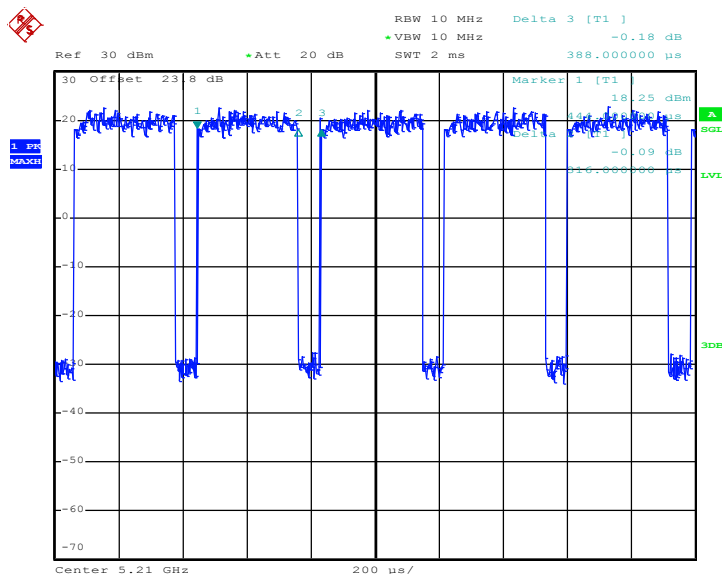
Date: 4.OCT.2016 21:47:46

802.11n HT20


Date: 4.OCT.2016 21:51:30

802.11n HT40


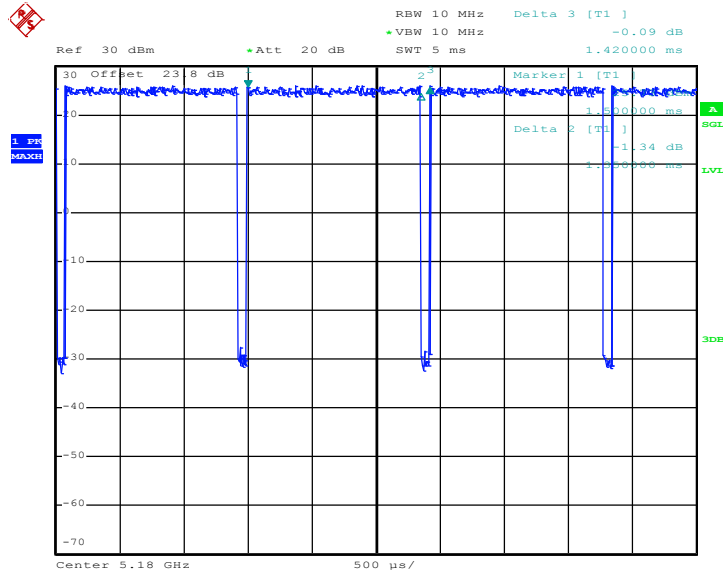
Date: 4.OCT.2016 22:06:00

802.11ac VHT80


Date: 4.OCT.2016 22:16:27

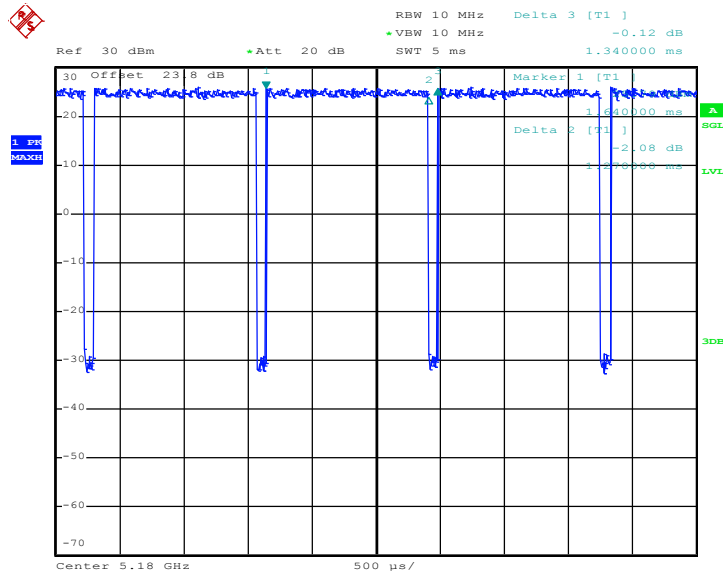
MIMO <Ant. 1+2(2)>

802.11a



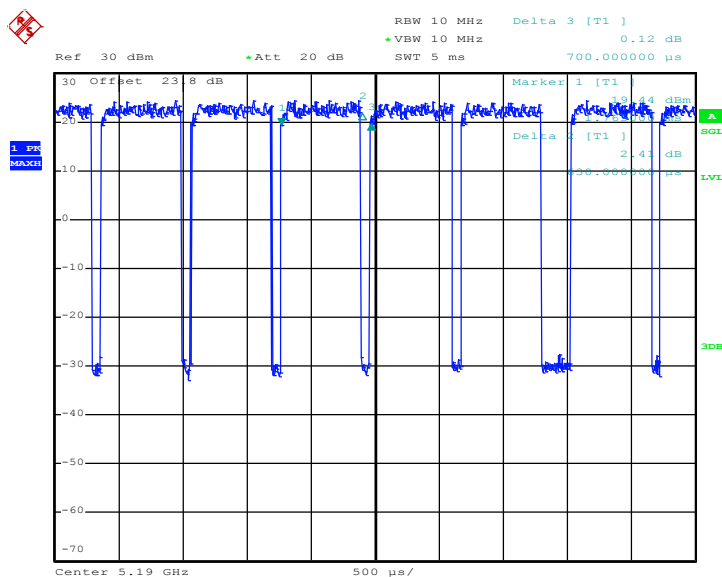
Date: 4.OCT.2016 21:49:10

802.11n HT20



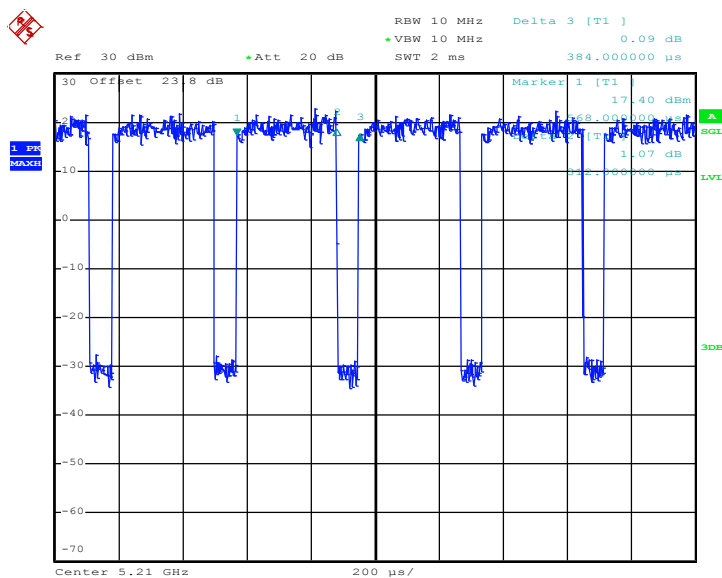
Date: 4.OCT.2016 21:52:44

802.11n HT40



Date: 4.OCT.2016 22:06:47

802.11ac VHT80



Date: 4.OCT.2016 22:09:06



Appendix E. Conducted Spurious Emission in the Restricted Band

Test Engineer :	Citta Ke	Temperature :	23~25°C
		Relative Humidity :	47~49%



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Aux		Peak	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor		Avg.	
1+2(1)		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)		(P/A)	
802.11a CH 52 5260MHz		5112.06	-41.44	-20.24	-21.2	-51	2	4.55		3.01		P	
		5135.72	-51.23	-10.03	-41.2	-60.79	2	4.55		3.01		A	
	*	5260	19.85	-	-	10.22	2	4.62		3.01		P	
	*	5260	14.64	-	-	5.01	2	4.62		3.01		A	
		5359.92	-40.03	-18.83	-21.2	-49.75	2	4.71		3.01		P	
		5351.28	-50.07	-8.87	-41.2	-59.77	2	4.69		3.01		A	
802.11a CH 60 5300MHz		5065.52	-39.46	-18.26	-21.2	-49	2	4.53		3.01		P	
		5134.42	-49.6	-8.4	-41.2	-59.16	2	4.55		3.01		A	
	*	5300	19.71	-	-	10.05	2	4.65		3.01		P	
	*	5300	14.17	-	-	4.51	2	4.65		3.01		A	
		5350.56	-36.24	-15.04	-21.2	-45.94	2	4.69		3.01		P	
		5350.08	-45.75	-4.55	-41.2	-55.45	2	4.69		3.01		A	



802.11a CH 64 5320MHz		5111.8	-41.69	-20.49	-21.2	-51.25	2	4.55		3.01		P	
		5131.3	-51.85	-10.65	-41.2	-61.41	2	4.55		3.01		A	
	*	5320	17.18	-	-	7.51	2	4.66		3.01		P	
	*	5320	11.24	-	-	1.57	2	4.66		3.01		A	
		5351.28	-30.59	-9.39	-21.2	-40.29	2	4.69		3.01		P	
		5350.08	-42.34	-1.14	-41.2	-52.04	2	4.69		3.01		A	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11a CH 52 5260MHz		10520	-58.14	-31.14	-27	-38.98	2	7.25	31.42	3.01		P	
		15780	-30.54	-9.34	-21.2	-12.87	2	8.8	31.48	3.01		P	
		15780	-41.33	-0.13	-41.2	-23.66	2	8.8	31.48	3.01		A	
802.11a CH 60 5300MHz		10600	-55.28	-28.28	-27	-36.07	2	7.25	31.47	3.01		P	
		15900	-32.53	-11.33	-21.2	-14.87	2	8.81	31.48	3.01		P	
		15900	-42.11	-0.91	-41.2	-24.45	2	8.81	31.48	3.01		A	
802.11a CH 64 5320MHz		10640	-56.08	-34.88	-21.2	-36.85	2	7.25	31.49	3.01		P	
		15960	-46.59	-25.39	-21.2	-28.94	2	8.82	31.48	3.01		P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT20 CH 52 5260MHz		5140.66	-41.09	-19.89	-21.2	-50.65	2	4.55		3.01		P	
		5146.38	-51.54	-10.34	-41.2	-61.11	2	4.56		3.01		A	
	*	5260	20.62	-	-	10.99	2	4.62		3.01		P	
	*	5260	14.19	-	-	4.56	2	4.62		3.01		A	
		5351.28	-40.3	-19.1	-21.2	-50	2	4.69		3.01		P	
		5353.92	-50.36	-9.16	-41.2	-60.06	2	4.69		3.01		A	
802.11n HT20 CH 60 5300MHz		5140.14	-41.36	-20.16	-21.2	-50.92	2	4.55		3.01		P	
		5132.34	-51.87	-10.67	-41.2	-61.43	2	4.55		3.01		A	
	*	5302	19.65	-	-	9.99	2	4.65		3.01		P	
	*	5302	13.86	-	-	4.2	2	4.65		3.01		A	
		5352.96	-29.99	-8.79	-21.2	-39.69	2	4.69		3.01		P	
		5350.32	-42.74	-1.54	-41.2	-52.44	2	4.69		3.01		A	



802.11n HT20 CH 64 5320MHz		5086.58	-42.2	-21	-21.2	-51.75	2	4.54		3.01		P	
		5130	-52.59	-11.39	-41.2	-62.15	2	4.55		3.01		A	
	*	5320	15.65	-	-	5.98	2	4.66		3.01		P	
	*	5320	10.33	-	-	0.66	2	4.66		3.01		A	
		5350.56	-29.28	-8.08	-21.2	-38.98	2	4.69		3.01		P	
		5350.08	-41.86	-0.66	-41.2	-51.56	2	4.69		3.01		A	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT20 CH 52 5260MHz		10520	-57.52	-30.52	-27	-38.36	2	7.25	31.42	3.01		P	
		15780	-32.15	-10.95	-21.2	-14.48	2	8.8	31.48	3.01		P	
		15780	-41.83	-0.63	-41.2	-24.16	2	8.8	31.48	3.01		A	
802.11n HT20 CH 60 5300MHz		10600	-56.72	-29.72	-27	-37.51	2	7.25	31.47	3.01		P	
		15900	-31.74	-10.54	-21.2	-14.08	2	8.81	31.48	3.01		P	
		15900	-41.3	-0.1	-41.2	-23.64	2	8.81	31.48	3.01		A	
802.11n HT20 CH 64 5320MHz		10640	-58.16	-36.96	-21.2	-38.93	2	7.25	31.49	3.01		P	
		15960	-46.27	-25.07	-21.2	-28.62	2	8.82	31.48	3.01		P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT40 CH 54 5270MHz		5146.9	-39.57	-18.37	-21.2	-49.14	2	4.56		3.01		P	
		5148.46	-49.8	-8.6	-41.2	-59.37	2	4.56		3.01		A	
	*	5270	15.58	-	-	5.94	2	4.63		3.01		P	
	*	5270	9.66	-	-	0.02	2	4.63		3.01		A	
		5353.68	-29.3	-8.1	-21.2	-39	2	4.69		3.01		P	
		5350.08	-41.51	-0.31	-41.2	-51.21	2	4.69		3.01		A	
802.11n HT40 CH 62 5310MHz		5125.58	-44.63	-23.43	-21.2	-54.19	2	4.55		3.01		P	
		5148.2	-55.61	-14.41	-41.2	-65.18	2	4.56		3.01		A	
	*	5310	12.31	-	-	2.64	2	4.66		3.01		P	
	*	5310	6.43	-	-	-3.24	2	4.66		3.01		A	
		5350.56	-29.65	-8.45	-21.2	-39.35	2	4.69		3.01		P	
		5350.08	-41.33	-0.13	-41.2	-51.03	2	4.69		3.01		A	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT40 CH 54 5270MHz		10540	-58.5	-31.5	-27	-39.33	2	7.25	31.43	3.01		P	
		15810	-37.18	-15.98	-21.2	-19.52	2	8.81	31.48	3.01		P	
		15810	-47.25	-6.05	-41.2	-29.59	2	8.81	31.48	3.01		A	
802.11n HT40 CH 62 5310MHz		10620	-61.54	-40.34	-21.2	-42.32	2	7.25	31.48	3.01		P	
		15930	-49.52	-28.32	-21.2	-31.87	2	8.82	31.48	3.01		P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11ac VHT80 CH 58 5290MHz		5143.26	-38.26	-17.06	-21.2	-47.83	2	4.56		3.01		P	
		5149.76	-51.74	-10.54	-41.2	-61.31	2	4.56		3.01		A	
	*	5290	10.48	-	-	0.82	2	4.65		3.01		P	
	*	5290	-0.38	-	-	-10.04	2	4.65		3.01		A	
		5351.52	-30.77	-9.57	-21.2	-40.47	2	4.69		3.01		P	
		5350.8	-41.78	-0.58	-41.2	-51.48	2	4.69		3.01		A	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11ac VHT80 CH 58 5290MHz		10580	-61.61	-34.61	-27	-42.41	2	7.25	31.46	3.01		P	
		15870	-53.06	-31.86	-21.2	-35.4	2	8.81	31.48	3.01		P	
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	Aux		Peak	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor		Avg.	
1+2(1)		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)		(P/A)	
802.11a CH 100 5500MHz		5459.44	-31.53	-10.33	-21.2	-41.24	2	4.7		3.01		P	
		5469.76	-27.38	-0.38	-27	-37.07	2	4.68		3.01		P	
		5459.68	-41.47	-0.27	-41.2	-51.18	2	4.7		3.01		A	
		5140	-37.97	-16.77	-21.2	-47.53	2	4.55		3.01		P	
		5140	-37.97	-16.77	-21.2	-47.53	2	4.55		3.01		P	
		5140	-49.69	-8.49	-41.2	-59.25	2	4.55		3.01		A	
	*	5500	18.18	-	-	8.5	2	4.67		3.01		P	
	*	5500	13.2	-	-	3.52	2	4.67		3.01		A	
		5733.15	-44.34	-17.34	-27	-54.22	2	4.87		3.01		P	
802.11a CH 116 5580MHz		5459.68	-38.62	-17.42	-21.2	-48.33	2	4.7		3.01		P	
		5469.04	-35.83	-8.83	-27	-45.52	2	4.68		3.01		P	
		5459.92	-49.1	-7.9	-41.2	-58.81	2	4.7		3.01		A	
		5056	-38.24	-17.04	-21.2	-47.78	2	4.53		3.01		P	
		5056	-49.7	-8.5	-41.2	-59.24	2	4.53		3.01		A	
	*	5580	20.62	-	-	11.02	2	4.59		3.01		P	
	*	5580	15	-	-	5.4	2	4.59		3.01		A	
		5736.65	-43.05	-16.05	-27	-52.97	2	4.91		3.01		P	



802.11a CH 140 5700MHz		5351.92	-38.45	-17.25	-21.2	-48.15	2	4.69		3.01		P	
		5468.56	-39.97	-12.97	-27	-49.66	2	4.68		3.01		P	
		5386	-48.1	-6.9	-41.2	-57.83	2	4.72		3.01		A	
		5116	-38.56	-17.36	-21.2	-48.12	2	4.55		3.01		P	
		5116	-49.92	-8.72	-41.2	-59.48	2	4.55		3.01		A	
	*	5700	14.53	-	-	4.69	2	4.83		3.01		P	
	*	5700	9.64	-	-	-0.2	2	4.83		3.01		A	
		5725.45	-29.24	-2.24	-27	-39.12	2	4.87		3.01		P	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11a CH 100 5500MHz		11000	-56.2	-35	-21.2	-36.75	2	7.25	31.71	3.01		P	
		16500	-45.82	-18.82	-27	-28.37	2	9.01	31.47	3.01		P	
802.11a CH 116 5580MHz		11160	-51.91	-30.71	-21.2	-32.41	2	7.25	31.76	3.01		P	
		16740	-34.4	-7.4	-27	-17.07	2	9.1	31.44	3.01		P	
802.11a CH 140 5700MHz		11400	-62.22	-41.02	-21.2	-42.65	2	7.25	31.83	3.01		P	
		17100	-58.08	-31.08	-27	-40.93	2	9.24	31.4	3.01		P	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT20 CH 100 5500MHz		5459.44	-32.77	-11.57	-21.2	-42.48	2	4.7		3.01		P	
		5467.84	-27.55	-0.55	-27	-37.24	2	4.68		3.01		P	
		5459.68	-42.63	-1.43	-41.2	-52.34	2	4.7		3.01		A	
		5128	-38.44	-17.24	-21.2	-48	2	4.55		3.01		P	
		5128	-49.99	-8.79	-41.2	-59.55	2	4.55		3.01		A	
	*	5500	17.85	-	-	8.17	2	4.67		3.01		P	
	*	5500	12.08	-	-	2.4	2	4.67		3.01		A	
		5731.225	-44.93	-17.93	-27	-54.81	2	4.87		3.01		P	
802.11n HT20 CH 116 5580MHz		5457.04	-35.81	-14.61	-21.2	-45.52	2	4.7		3.01		P	
		5467.12	-34.97	-7.97	-27	-44.66	2	4.68		3.01		P	
		5459.92	-48.69	-7.49	-41.2	-58.4	2	4.7		3.01		A	
	*	5580	21.07	-	-	11.47	2	4.59		3.01		P	
	*	5580	14.7	-	-	5.1	2	4.59		3.01		A	
		5729.65	-41.48	-14.48	-27	-51.36	2	4.87		3.01		P	



802.11n HT20 CH 140 5700MHz		5377.12	-39.99	-18.79	-21.2	-49.72	2	4.72		3.01		P	
		5461.36	-41.09	-14.09	-27	-50.8	2	4.7		3.01		P	
		5375.68	-49.89	-8.69	-41.2	-59.61	2	4.71		3.01		A	
		5086	-39.53	-18.33	-21.2	-49.08	2	4.54		3.01		P	
		5086	-51.39	-10.19	-41.2	-60.94	2	4.54		3.01		A	
	*	5700	14.64	-	-	4.8	2	4.83		3.01		P	
	*	5700	9.83	-	-	-0.01	2	4.83		3.01		A	
		5725.1	-28.75	-1.75	-27	-38.63	2	4.87		3.01		P	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												