FCC RF Test Report

APPLICANT	:	ASUSTeK COMPUTER INC.
EQUIPMENT	:	ASUS Phone
BRAND NAME	:	ASUS
MODEL NAME	:	ASUS_Z012DC
FCC ID	:	MSQZ012DC
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Apr. 01, 2016 and testing was completed on May 16, 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

Testing Laboratory 1190

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR640143D	Rev. 01	Initial issue of report	Jun. 16, 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	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 5.36 dB at 39.990 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.00 dB at 0.518 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

ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN

1.2 Manufacturer

Cotek Electronics (Suzhou) Co., Ltd.
Jiangsu high tech Zone of Suzhou City, Ma Wan Road, No. 288

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone
Brand Name	ASUS
Model Name	ASUS_Z012DC
FCC ID	MSQZ012DC
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE WLAN 1b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.0 EDR/LE
EUT Stage	Production Unit

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	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 14.98 dBm / 0.0315 W 802.11n HT20 : 13.98 dBm / 0.0250 W 802.11n HT40 : 13.93 dBm / 0.0247 W 802.11ac VHT20 : 10.96 dBm / 0.0125 W 802.11ac VHT40 : 10.94 dBm / 0.0124 W 802.11ac VHT80 : 10.64 dBm / 0.0116 W **<5260 MHz ~ 5320 MHz>** 802.11a : 14.72 dBm / 0.0296 W 802.11n HT20 : 13.76 dBm / 0.0238 W 802.11n HT40 : 13.53 dBm / 0.0225 W 802.11ac VHT20 : 10.66 dBm / 0.0116 W 802.11ac VHT40 : 10.92 dBm / 0.0124 W 802.11ac VHT80 : 10.62 dBm / 0.0115 W **<5500 MHz ~ 5700 MHz>** 802.11a : 14.97 dBm / 0.0314 W 802.11n HT20 : 13.96 dBm / 0.0249 W 802.11n HT40 : 13.85 dBm / 0.0243 W 802.11ac VHT20 : 10.98 dBm / 0.0125 W 802.11ac VHT40 : 10.98 dBm / 0.0125 W 802.11ac VHT80 : 10.97 dBm / 0.0125 W
99% Occupied Bandwidth	802.11a : 18.45 MHz 802.11n HT20 : 19.15 MHz 802.11n HT40 : 36.70 MHz 802.11ac VHT20: 19.30 MHz 802.11ac VHT40 : 36.70 MHz 802.11ac VHT80 : 75.00 MHz
Antenna Type	PIFA Antenna
Antenna Gain	**<5150 MHz ~ 5250 MHz>** 1.70 dBi **<5250 MHz ~ 5350 MHz>** 1.30 dBi **<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>** -0.90 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-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 v01r02
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102	**5510**	122	5610
	104	5520	124	5620
	108	5540	**126**	**5630**
	110	**5550**	128	5640
	112	5560	132	5660
	114	5570	**134**	**5670**
	116	5580	136	5680
	118	**5590**	140	5700

Note: The above Frequency and Channel in boldface were 802.11n HT40.

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Avg. Power (dBm)	14.98	14.97	14.97	14.96	14.97	14.89	14.87	14.97

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power (dBm)	13.98	13.92	13.96	13.97	13.82	13.91	13.95	13.88

5GHz 802.11n HT40mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Avg. Power (dBm)	13.93	13.73	13.85	13.66	13.78	13.78	13.72	13.78

5GHz 802.11ac VHT20 mode										
Data Rate (MHz)	MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Avg. Power (dBm)	10.98	10.79	10.66	10.61	10.57	10.78	10.75	10.62	10.65	10.98

5GHz 802.11ac VHT40 mode										
Data Rate (MHz)	MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Avg. Power (dBm)	10.98	10.94	10.96	10.89	10.96	10.88	10.78	10.79	10.96	10.95

5GHz 802.11ac VHT80 mode										
Data Rate (MHz)	MCS 0	MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
Avg. Power (dBm)	10.97	10.85	10.93	10.95	10.73	10.88	10.67	10.69	10.74	10.63

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

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

Test Cases	
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + USB Cable 1 (Charging from Adapter 2) + Earphone + SD Card (Play MP3) + SIM 1

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

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

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

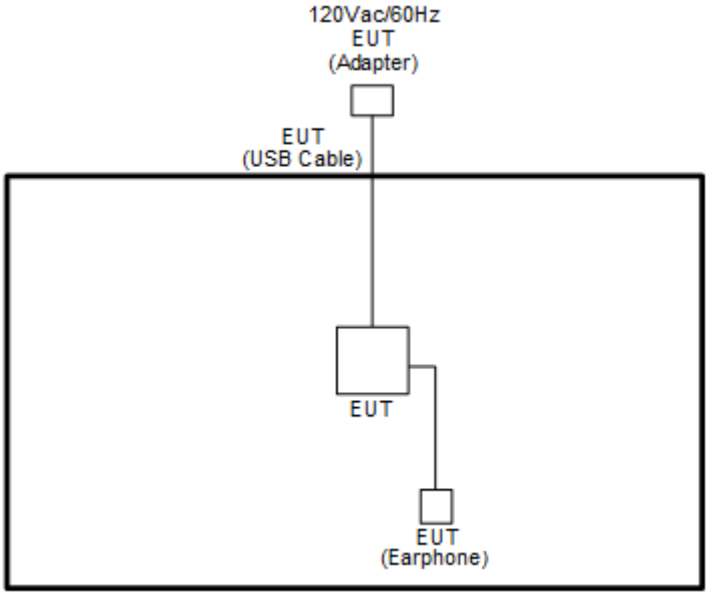
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

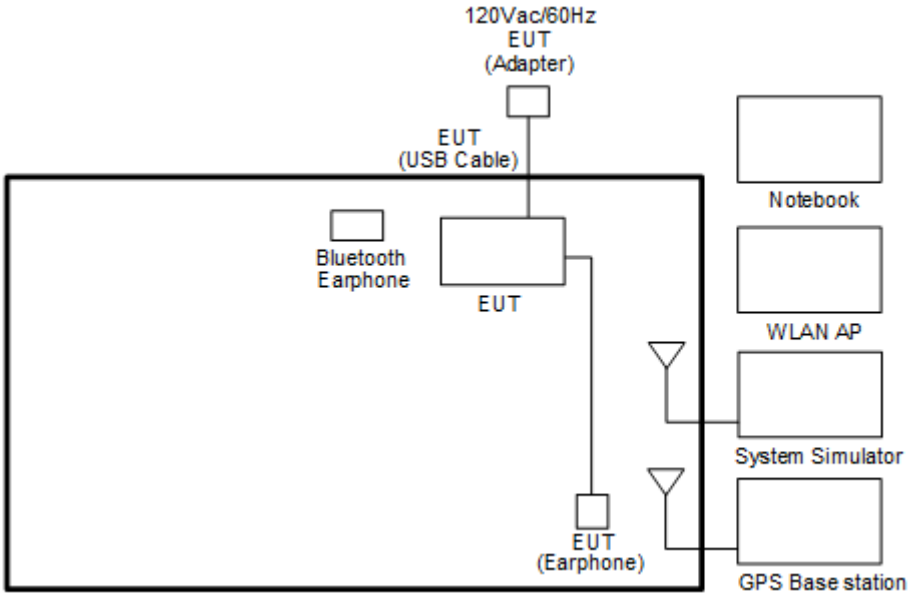
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	-

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	FCC DoC	N/A	N/A
5.	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
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “Wifi_BTTest app” installed in the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

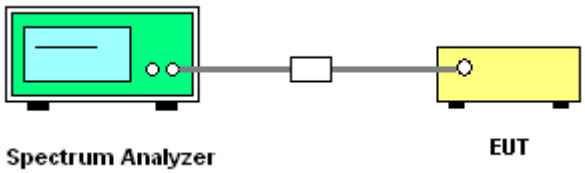
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

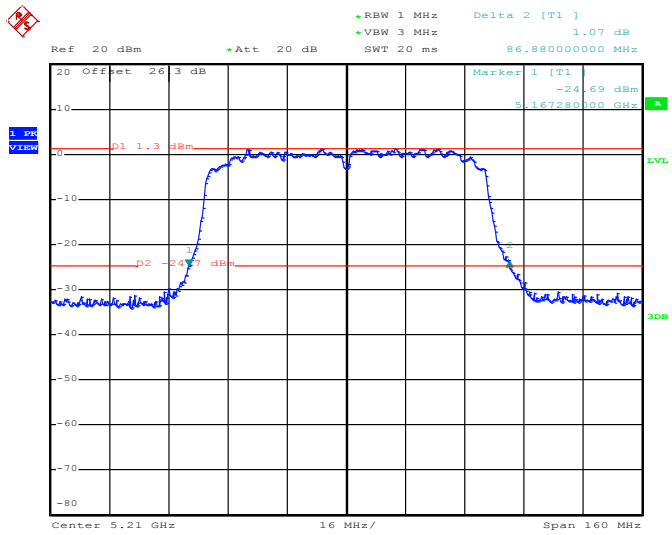
3.1.4 Test Setup



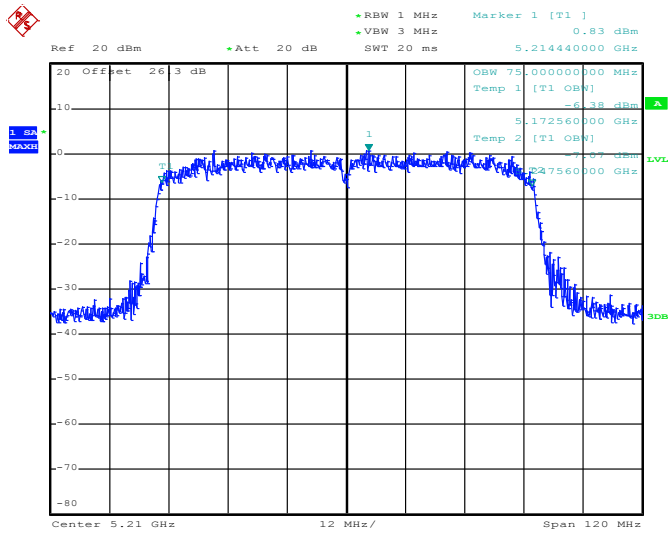
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.35 GHz and 5.47–5.725 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.

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

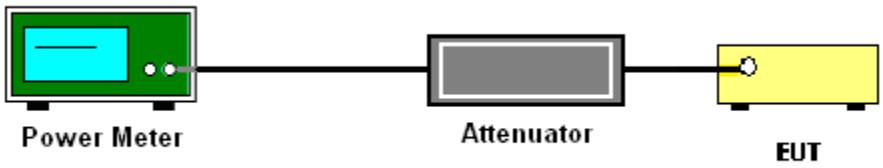
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

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

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

3.2.4 Test Setup

For normal channel:



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

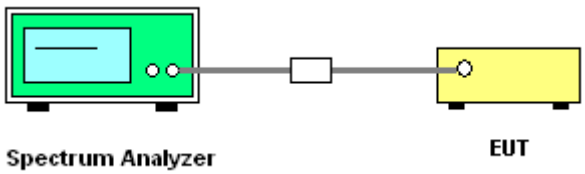
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section F) Maximum power spectral density.

 # 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 v01r02.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 2 Span / RBW.
   - Sweep time = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

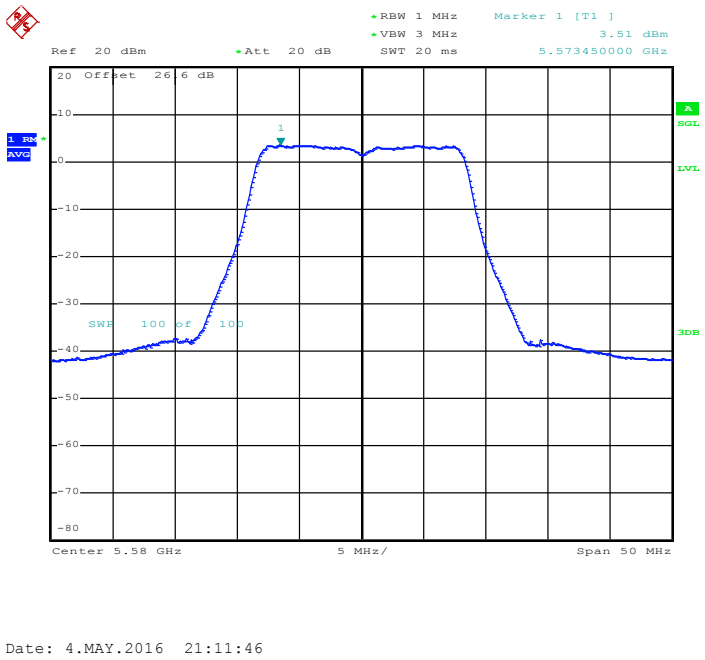
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Spectral Density(dBm/MHz)



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

3.4 Unwanted Radiated Emission Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

(3) KDB789033 D02 v01r02 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 v01r02. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

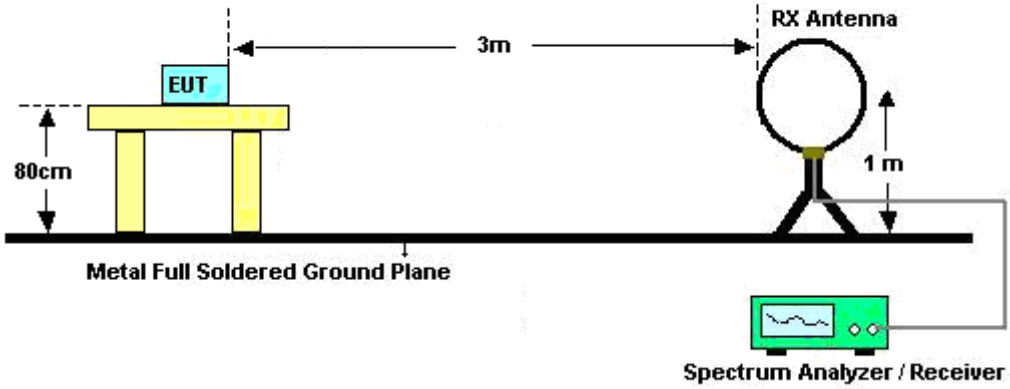
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

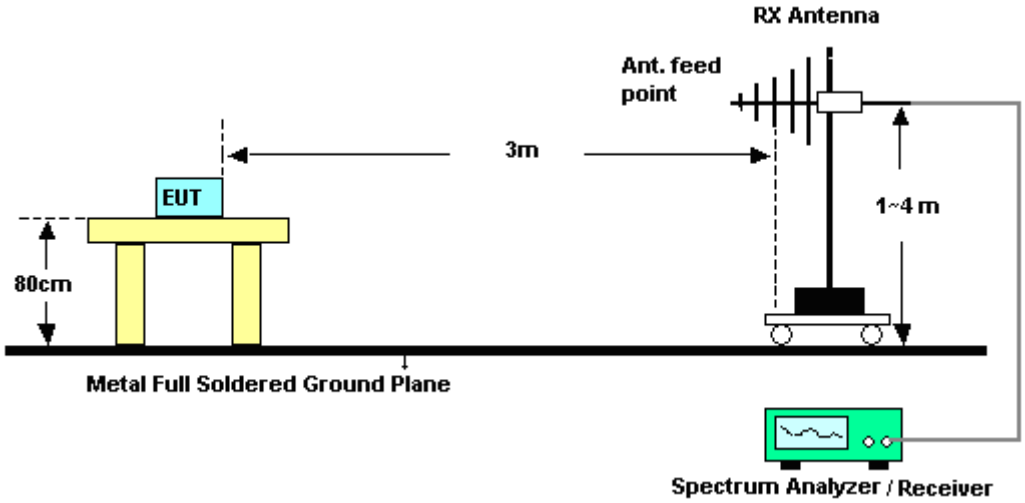
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

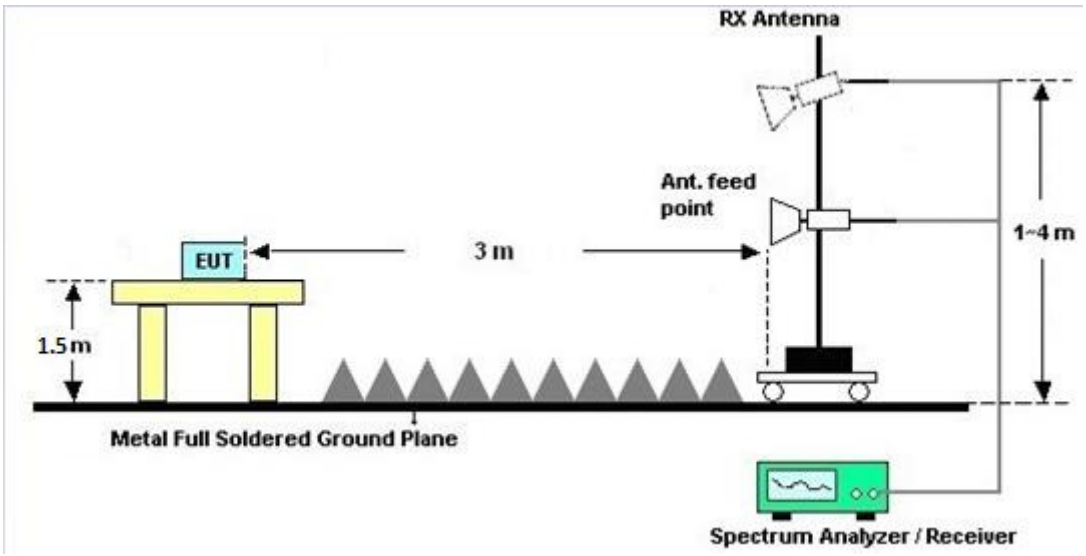
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

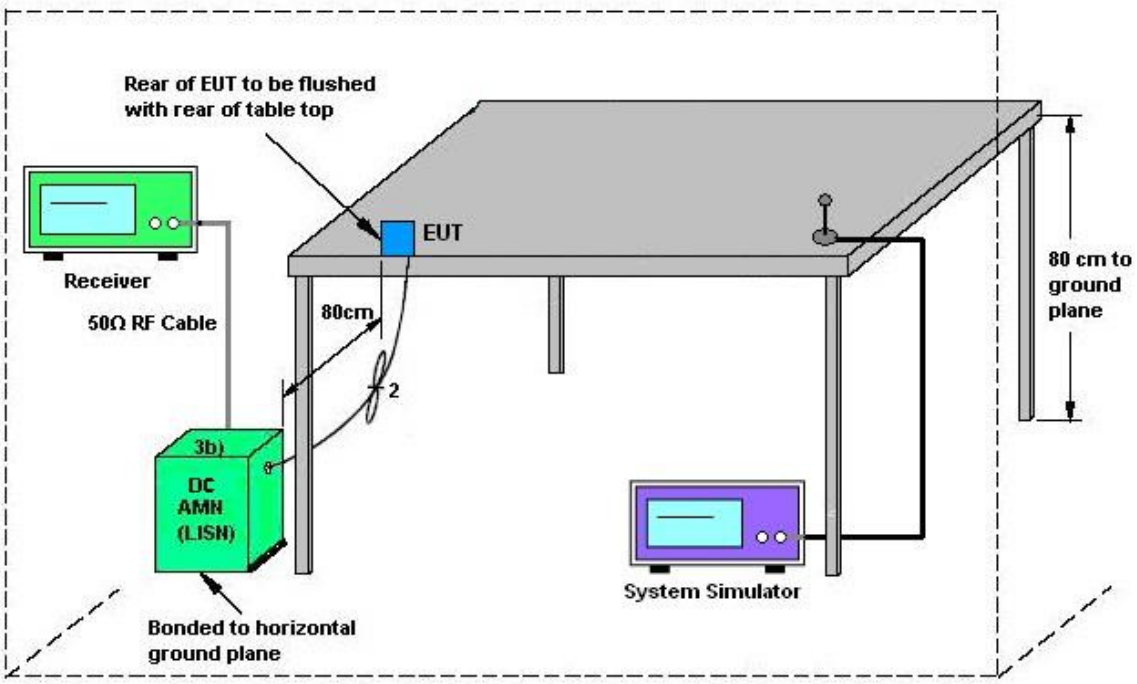
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

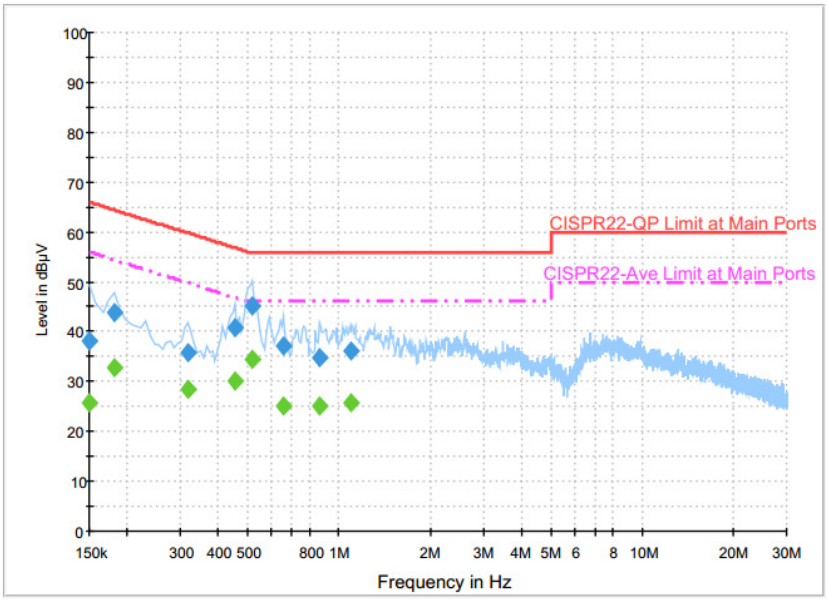
3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	24~25℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	44~45%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + USB Cable 1 (Charging from Adapter 2) + Earphone + SD Card (Play MP3) + SIM 1		



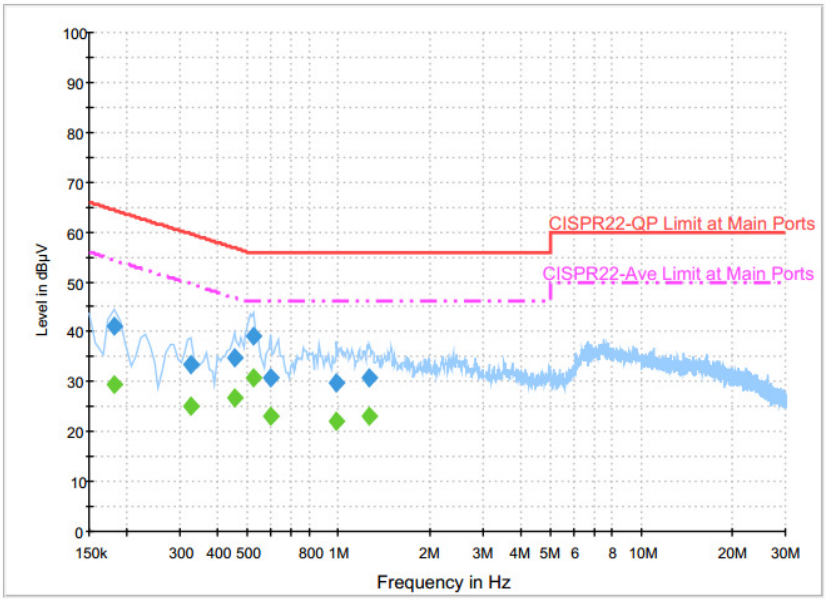
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	38.2	Off	L1	19.6	27.8	66.0
0.182000	43.8	Off	L1	19.6	20.6	64.4
0.318000	35.8	Off	L1	19.6	24.0	59.8
0.454000	40.9	Off	L1	19.6	15.9	56.8
0.518000	45.0	Off	L1	19.6	11.0	56.0
0.654000	37.3	Off	L1	19.6	18.7	56.0
0.862000	34.8	Off	L1	19.6	21.2	56.0
1.102000	36.2	Off	L1	19.7	19.8	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	25.7	Off	L1	19.6	30.3	56.0
0.182000	32.7	Off	L1	19.6	21.7	54.4
0.318000	28.4	Off	L1	19.6	21.4	49.8
0.454000	30.1	Off	L1	19.6	16.7	46.8
0.518000	34.6	Off	L1	19.6	11.4	46.0
0.654000	25.1	Off	L1	19.6	20.9	46.0
0.862000	25.1	Off	L1	19.6	20.9	46.0
1.102000	25.9	Off	L1	19.7	20.1	46.0

Test Mode :	Mode 1	Temperature :	24~25℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	44~45%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + USB Cable 1 (Charging from Adapter 2) + Earphone + SD Card (Play MP3) + SIM 1		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	41.2	Off	N	19.6	23.2	64.4
0.326000	33.5	Off	N	19.6	26.1	59.6
0.454000	34.8	Off	N	19.6	22.0	56.8
0.526000	39.1	Off	N	19.6	16.9	56.0
0.598000	30.9	Off	N	19.6	25.1	56.0
0.990000	29.9	Off	N	19.6	26.1	56.0
1.270000	30.9	Off	N	19.6	25.1	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	29.3	Off	N	19.6	25.1	54.4
0.326000	25.1	Off	N	19.6	24.5	49.6
0.454000	26.7	Off	N	19.6	20.1	46.8
0.526000	30.9	Off	N	19.6	15.1	46.0
0.598000	23.2	Off	N	19.6	22.8	46.0
0.990000	22.1	Off	N	19.6	23.9	46.0
1.270000	23.2	Off	N	19.6	22.8	46.0

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

Non-standard antenna connector is used.

3.8.3 Antenna Gain

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

4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 12, 2015	May 02, 2016 ~ May 08, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 12, 2015	May 02, 2016 ~ May 08, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	May 02, 2016 ~ May 08, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Jun. 15, 2015	May 02, 2016 ~ May 08, 2016	Jun. 14, 2016	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	GEO821763	N/A	Nov. 13, 2015	May 02, 2016 ~ May 08, 2016	Nov. 12, 2016	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	May 12, 2016 ~ May 16, 2016	Sep. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	May 12, 2016 ~ May 16, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	May 12, 2016 ~ May 16, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	May 12, 2016 ~ May 16, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 17, 2015	May 12, 2016 ~ May 16, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	May 12, 2016 ~ May 16, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	May 12, 2016 ~ May 16, 2016	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHZ	Sep. 24, 2015	May 12, 2016 ~ May 16, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 12, 2016 ~ May 16, 2016	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 12, 2016 ~ May 16, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 12, 2016 ~ May 16, 2016	N/A	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	May 12, 2016 ~ May 16, 2016	Nov. 01, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	May 12, 2016 ~ May 16, 2016	Jun. 01, 2016	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 09, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	May 09, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	May 09, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	May 09, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	May 09, 2016	Jan. 07, 2017	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.26**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.90**

Appendix A. Conducted Test Results

Report Number : FR640143D

Test Engineer:	Bill Kuo	Temperature:	21~25	°C
Test Date:	2016/05/02 ~ 2016/05/08	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	18.40	29.60	-	22.65		
11a	6Mbps	1	44	5220	18.30	24.80	-	22.62		
11a	6Mbps	1	48	5240	18.45	27.00	-	22.66		
HT20	MCS0	1	36	5180	19.05	26.60	-	22.80		
HT20	MCS0	1	44	5220	19.00	24.30	-	22.79		
HT20	MCS0	1	48	5240	19.00	24.50	-	22.79		
HT40	MCS0	1	38	5190	36.60	45.72	-	23.01		
HT40	MCS0	1	46	5230	36.60	46.08	-	23.01		
VHT20	MCS0	1	36	5180	19.00	24.30	-	22.79		
VHT20	MCS0	1	44	5220	19.20	24.10	-	22.83		
VHT20	MCS0	1	48	5240	19.30	24.35	-	22.86		
VHT40	MCS0	1	38	5190	36.50	45.54	-	23.01		
VHT40	MCS0	1	46	5230	36.50	45.72	-	23.01		
VHT80	MCS0	1	42	5210	75.00	86.88	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.62	14.98	24.00	1.70		Pass
11a	6Mbps	1	44	5220	0.62	14.67	24.00	1.70		Pass
11a	6Mbps	1	48	5240	0.62	14.58	24.00	1.70		Pass
HT20	MCS0	1	36	5180	0.66	13.98	24.00	1.70		Pass
HT20	MCS0	1	44	5220	0.66	13.67	24.00	1.70		Pass
HT20	MCS0	1	48	5240	0.66	13.68	24.00	1.70		Pass
HT40	MCS0	1	38	5190	1.20	13.93	24.00	1.70		Pass
HT40	MCS0	1	46	5230	1.20	13.51	24.00	1.70		Pass
VHT20	MCS0	1	36	5180	0.84	10.96	24.00	1.70		Pass
VHT20	MCS0	1	44	5220	0.84	10.65	24.00	1.70		Pass
VHT20	MCS0	1	48	5240	0.84	10.55	24.00	1.70		Pass
VHT40	MCS0	1	38	5190	1.54	10.85	24.00	1.70		Pass
VHT40	MCS0	1	46	5230	1.54	10.94	24.00	1.70		Pass
VHT80	MCS0	1	42	5210	2.57	10.64	24.00	1.70		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.62	3.29	11.00	1.70		Pass
11a	6Mbps	1	44	5220	0.62	2.86	11.00	1.70		Pass
11a	6Mbps	1	48	5240	0.62	2.91	11.00	1.70		Pass
HT20	MCS0	1	36	5180	0.66	2.02	11.00	1.70		Pass
HT20	MCS0	1	44	5220	0.66	1.64	11.00	1.70		Pass
HT20	MCS0	1	48	5240	0.66	1.62	11.00	1.70		Pass
HT40	MCS0	1	38	5190	1.20	-0.73	11.00	1.70		Pass
HT40	MCS0	1	46	5230	1.20	-1.24	11.00	1.70		Pass
VHT20	MCS0	1	36	5180	0.84	-0.97	11.00	1.70		Pass
VHT20	MCS0	1	44	5220	0.84	-1.36	11.00	1.70		Pass
VHT20	MCS0	1	48	5240	0.84	-1.35	11.00	1.70		Pass
VHT40	MCS0	1	38	5190	1.54	-3.91	11.00	1.70		Pass
VHT40	MCS0	1	46	5230	1.54	-3.58	11.00	1.70		Pass
VHT80	MCS0	1	42	5210	2.57	-7.21	11.00	1.70		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	18.35	25.10	23.64	29.64	23.98	
11a	6M bps	1	60	5300	18.10	24.20	23.58	29.58	23.98	
11a	6M bps	1	64	5320	18.35	26.70	23.64	29.64	23.98	
HT20	MCS 0	1	52	5260	19.05	25.20	23.80	29.80	23.98	
HT20	MCS 0	1	60	5300	19.00	24.55	23.79	29.79	23.98	
HT20	MCS 0	1	64	5320	19.10	24.90	23.81	29.81	23.98	
HT40	MCS 0	1	54	5270	36.70	46.08	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.70	45.72	23.98	30.00	23.98	
VHT20	MCS 0	1	52	5260	18.95	24.10	23.78	29.78	23.98	
VHT20	MCS 0	1	60	5300	19.00	23.90	23.79	29.79	23.98	
VHT20	MCS 0	1	64	5320	19.25	24.30	23.84	29.84	23.98	
VHT40	MCS 0	1	54	5270	36.60	45.36	23.98	30.00	23.98	
VHT40	MCS 0	1	62	5310	36.60	45.54	23.98	30.00	23.98	
VHT80	MCS 0	1	58	5290	75.00	86.40	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)		Pass/Fail
11a	6M bps	1	52	5260	0.62	14.57	23.98	1.30		Pass
11a	6M bps	1	60	5300	0.62	14.72	23.98	1.30		Pass
11a	6M bps	1	64	5320	0.62	14.53	23.98	1.30		Pass
HT20	MCS 0	1	52	5260	0.66	13.64	23.98	1.30		Pass
HT20	MCS 0	1	60	5300	0.66	13.76	23.98	1.30		Pass
HT20	MCS 0	1	64	5320	0.66	13.54	23.98	1.30		Pass
HT40	MCS 0	1	54	5270	1.20	13.53	23.98	1.30		Pass
HT40	MCS 0	1	62	5310	1.20	13.52	23.98	1.30		Pass
VHT20	MCS 0	1	52	5260	0.84	10.58	23.98	1.30		Pass
VHT20	MCS 0	1	60	5300	0.84	10.66	23.98	1.30		Pass
VHT20	MCS 0	1	64	5320	0.84	10.52	23.98	1.30		Pass
VHT40	MCS 0	1	54	5270	1.54	10.92	23.98	1.30		Pass
VHT40	MCS 0	1	62	5310	1.54	10.88	23.98	1.30		Pass
VHT80	MCS 0	1	58	5290	2.57	10.62	23.98	1.30		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
11a	6M bps	1	52	5260	0.62	2.96	11.00	1.30		Pass
11a	6M bps	1	60	5300	0.62	2.97	11.00	1.30		Pass
11a	6M bps	1	64	5320	0.62	2.87	11.00	1.30		Pass
HT20	MCS 0	1	52	5260	0.66	1.68	11.00	1.30		Pass
HT20	MCS 0	1	60	5300	0.66	1.63	11.00	1.30		Pass
HT20	MCS 0	1	64	5320	0.66	1.35	11.00	1.30		Pass
HT40	MCS 0	1	54	5270	1.20	-1.44	11.00	1.30		Pass
HT40	MCS 0	1	62	5310	1.20	-1.38	11.00	1.30		Pass
VHT20	MCS 0	1	52	5260	0.84	-1.14	11.00	1.30		Pass
VHT20	MCS 0	1	60	5300	0.84	-1.27	11.00	1.30		Pass
VHT20	MCS 0	1	64	5320	0.84	-1.59	11.00	1.30		Pass
VHT40	MCS 0	1	54	5270	1.54	-3.15	11.00	1.30		Pass
VHT40	MCS 0	1	62	5310	1.54	-3.65	11.00	1.30		Pass
VHT80	MCS 0	1	58	5290	2.57	-6.76	11.00	1.30		Pass

Report Number : FR640143D

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
11a	6M bps	1	100	5500	18.2	25.5	23.60	29.60	23.98	
11a	6M bps	1	116	5580	18.15	24.5	23.59	29.59	23.98	
11a	6M bps	1	140	5700	18.25	26.6	23.61	29.61	23.98	
HT20	MCS 0	1	100	5500	19	24.1	23.79	29.79	23.98	
HT20	MCS 0	1	116	5580	19.15	24.7	23.82	29.82	23.98	
HT20	MCS 0	1	140	5700	18.95	25.9	23.78	29.78	23.98	
HT40	MCS 0	1	102	5510	36.5	45.54	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.6	46.08	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.7	45.9	23.98	30.00	23.98	
VHT20	MCS 0	1	100	5500	19	24.25	23.79	29.79	23.98	
VHT20	MCS 0	1	116	5580	19.15	24.1	23.82	29.82	23.98	
VHT20	MCS 0	1	140	5700	18.95	24.25	23.78	29.78	23.98	
VHT40	MCS 0	1	102	5510	36.6	45.18	23.98	30.00	23.98	
VHT40	MCS 0	1	110	5550	36.6	45.36	23.98	30.00	23.98	
VHT40	MCS 0	1	134	5670	36.7	45.18	23.98	30.00	23.98	
VHT80	MCS 0	1	106	5530	75	86.08	23.98	30.00	23.98	
VHT80	MCS 0	1	122	5610	74.88	85.76	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)		Pass/Fail
11a	6M bps	1	100	5500	0.62	14.54	23.98	-0.90		Pass
11a	6M bps	1	116	5580	0.62	14.89	23.98	-0.90		Pass
11a	6M bps	1	140	5700	0.62	14.97	23.98	-0.90		Pass
HT20	MCS 0	1	100	5500	13.00	13.61	23.98	-0.90		Pass
HT20	MCS 0	1	116	5580	13.00	13.91	23.98	-0.90		Pass
HT20	MCS 0	1	140	5700	13.00	13.96	23.98	-0.90		Pass
HT40	MCS 0	1	102	5510	1.20	13.55	23.98	-0.90		Pass
HT40	MCS 0	1	110	5550	1.20	13.57	23.98	-0.90		Pass
HT40	MCS 0	1	134	5670	1.20	13.85	23.98	-0.90		Pass
VHT20	MCS 0	1	100	5500	0.84	10.54	23.98	-0.90		Pass
VHT20	MCS 0	1	116	5580	0.84	10.72	23.98	-0.90		Pass
VHT20	MCS 0	1	140	5700	0.84	10.98	23.98	-0.90		Pass
VHT40	MCS 0	1	102	5510	1.54	10.98	23.98	-0.90		Pass
VHT40	MCS 0	1	110	5550	1.54	10.96	23.98	-0.90		Pass
VHT40	MCS 0	1	134	5670	1.54	10.55	23.98	-0.90		Pass
VHT80	MCS 0	1	106	5530	2.57	10.70	23.98	-0.90		Pass
VHT80	MCS 0	1	122	5610	2.57	10.97	23.98	-0.90		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
11a	6M bps	1	100	5500	0.62	3.76	11.00	-0.90		Pass
11a	6M bps	1	116	5580	0.62	4.13	11.00	-0.90		Pass
11a	6M bps	1	140	5700	0.62	3.22	11.00	-0.90		Pass
HT20	MCS 0	1	100	5500	0.66	2.31	11.00	-0.90		Pass
HT20	MCS 0	1	116	5580	0.66	2.87	11.00	-0.90		Pass
HT20	MCS 0	1	140	5700	0.66	1.99	11.00	-0.90		Pass
HT40	MCS 0	1	102	5510	1.20	-0.60	11.00	-0.90		Pass
HT40	MCS 0	1	110	5550	1.20	-0.37	11.00	-0.90		Pass
HT40	MCS 0	1	134	5670	1.20	-1.25	11.00	-0.90		Pass
VHT20	MCS 0	1	100	5500	0.84	-0.92	11.00	-0.90		Pass
VHT20	MCS 0	1	116	5580	0.84	-0.08	11.00	-0.90		Pass
VHT20	MCS 0	1	140	5700	0.84	-1.28	11.00	-0.90		Pass
VHT40	MCS 0	1	102	5510	1.54	-2.82	11.00	-0.90		Pass
VHT40	MCS 0	1	110	5550	1.54	-2.63	11.00	-0.90		Pass
VHT40	MCS 0	1	134	5670	1.54	-4.43	11.00	-0.90		Pass
VHT80	MCS 0	1	106	5530	2.57	-5.70	11.00	-0.90		Pass
VHT80	MCS 0	1	122	5610	2.57	-5.99	11.00	-0.90		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.6	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.35	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.8	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.8	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	55	3.8	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.6	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.35	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.8	
11a	6Mbps	1	64	5320	5320.100	0.100	18.80	-30	3.8	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	55	3.8	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.6	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.35	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.8	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	-30	3.8	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	55	3.8	

Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Bill Chang, Ken Wu, and Kyle Jhuang	Temperature :	20~23°C
		Relative Humidity :	50~53%

Band 1 - 5150~5250MHz

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.8	51.11	-22.89	74	42.77	31.58	10.23	33.47	101	93	P	H
		5127.8	42.9	-11.1	54	34.59	31.56	10.22	33.47	101	93	A	H
	*	5180	105.09	-	-	96.71	31.62	10.23	33.47	101	93	P	H
	*	5180	97.36	-	-	88.98	31.62	10.23	33.47	101	93	A	H
													H
													H
		5081.45	48.73	-25.27	74	40.49	31.5	10.21	33.47	108	178	P	V
		5127.8	40.49	-13.51	54	32.18	31.56	10.22	33.47	108	178	A	V
	*	5180	99.19	-	-	90.81	31.62	10.23	33.47	108	178	P	V
	*	5180	91.89	-	-	83.51	31.62	10.23	33.47	108	178	A	V
													V
													V
802.11a CH 44 5220MHz		5021.9	48.37	-25.63	74	40.2	31.44	10.2	33.47	100	94	P	H
		5098.25	39.79	-14.21	54	31.53	31.52	10.21	33.47	100	94	A	H
	*	5220	102.5	-	-	94.07	31.66	10.24	33.47	100	94	P	H
	*	5220	94.63	-	-	86.2	31.66	10.24	33.47	100	94	A	H
		5420.51	50.42	-23.58	74	41.16	31.9	10.84	33.48	100	94	P	H
		5452.52	39.38	-14.62	54	30.08	31.94	10.84	33.48	100	94	A	H
		5000.75	48.17	-25.83	74	40.05	31.4	10.19	33.47	100	177	P	V
		5112.2	39.97	-14.03	54	31.68	31.54	10.22	33.47	100	177	A	V
	*	5220	97.61	-	-	89.18	31.66	10.24	33.47	100	177	P	V
	*	5220	89.26	-	-	80.83	31.66	10.24	33.47	100	177	A	V
		5422.49	48.54	-25.46	74	39.28	31.9	10.84	33.48	100	177	P	V
		5415.67	39.33	-14.67	54	30.04	31.9	10.87	33.48	100	177	A	V

802.11a CH 48 5240MHz		5063.75	48.37	-25.63	74	40.15	31.48	10.21	33.47	100	93	P	H
		5072.6	39.79	-14.21	54	31.55	31.5	10.21	33.47	100	93	A	H
	*	5240	102.69	-	-	94.11	31.68	10.37	33.47	100	93	P	H
	*	5240	94.49	-	-	85.91	31.68	10.37	33.47	100	93	A	H
		5395.65	48.34	-25.66	74	39.07	31.88	10.87	33.48	100	93	P	H
		5454.5	39.41	-14.59	54	30.11	31.94	10.84	33.48	100	93	A	H
		5093.45	48.82	-25.18	74	40.56	31.52	10.21	33.47	109	176	P	V
		5098.7	39.95	-14.05	54	31.69	31.52	10.21	33.47	109	176	A	V
	*	5240	97.43	-	-	88.85	31.68	10.37	33.47	109	176	P	V
	*	5240	90.08	-	-	81.5	31.68	10.37	33.47	109	176	A	V
		5431.29	48.18	-25.82	74	38.9	31.92	10.84	33.48	109	176	P	V
		5449	39.35	-14.65	54	30.05	31.94	10.84	33.48	109	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	42.54	-31.46	74	55.39	39.79	14.86	67.5	100	0	P	H
		15540	39.9	-34.1	74	48.8	38.6	17.89	65.39	100	0	P	H
													H
													H
		10360	42.14	-31.86	74	54.99	39.79	14.86	67.5	100	0	P	V
		15540	39.01	-34.99	74	47.91	38.6	17.89	65.39	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	41.21	-32.79	74	53.91	39.89	14.91	67.5	100	0	P	H
		15660	38.58	-35.42	74	47.78	38.23	17.94	65.37	100	0	P	H
													H
													H
		10440	41.3	-32.7	74	54	39.89	14.91	67.5	100	0	P	V
		15660	38.05	-35.95	74	47.25	38.23	17.94	65.37	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	41.68	-32.32	74	54.27	39.97	14.94	67.5	100	0	P	H
		15720	38.04	-35.96	74	47.4	38.03	17.97	65.36	100	0	P	H
													H
													H
		10480	40.92	-33.08	74	53.51	39.97	14.94	67.5	100	0	P	V
		15720	38.34	-35.66	74	47.7	38.03	17.97	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5053.55	48.7	-25.3	74	40.51	31.46	10.2	33.47	102	93	P	H
		5128.25	42.76	-11.24	54	34.45	31.56	10.22	33.47	102	93	A	H
	*	5180	104.03	-	-	95.65	31.62	10.23	33.47	102	93	P	H
	*	5180	96.27	-	-	87.89	31.62	10.23	33.47	102	93	A	H
802.11n													H
HT20													H
CH 36		5115.2	48.94	-25.06	74	40.65	31.54	10.22	33.47	100	180	P	V
5180MHz		5128.4	40.77	-13.23	54	32.46	31.56	10.22	33.47	100	180	A	V
	*	5180	98.46	-	-	90.08	31.62	10.23	33.47	100	180	P	V
	*	5180	90.1	-	-	81.72	31.62	10.23	33.47	100	180	A	V
													V
													V
		5120.9	48.98	-25.02	74	40.69	31.54	10.22	33.47	247	107	P	H
		5045.9	39.71	-14.29	54	31.52	31.46	10.2	33.47	247	107	A	H
	*	5220	102.01	-	-	93.58	31.66	10.24	33.47	247	107	P	H
	*	5220	94.6	-	-	86.17	31.66	10.24	33.47	247	107	A	H
802.11n		5451.53	48.29	-25.71	74	38.99	31.94	10.84	33.48	247	107	P	H
HT20		5458.13	39.36	-14.64	54	30.06	31.94	10.84	33.48	247	107	A	H
CH 44		5049.95	49.01	-24.99	74	40.82	31.46	10.2	33.47	300	149	P	V
5220MHz		5099.6	39.82	-14.18	54	31.56	31.52	10.21	33.47	300	149	A	V
	*	5220	96.52	-	-	88.09	31.66	10.24	33.47	300	149	P	V
	*	5220	90.1	-	-	81.67	31.66	10.24	33.47	300	149	A	V
		5427.66	48.13	-25.87	74	38.87	31.9	10.84	33.48	300	149	P	V
		5449.77	39.3	-14.7	54	30	31.94	10.84	33.48	300	149	A	V

		5021	50.33	-23.67	74	42.16	31.44	10.2	33.47	111	112	P	H
		5095.55	39.77	-14.23	54	31.51	31.52	10.21	33.47	111	112	A	H
	*	5240	101.47	-	-	92.89	31.68	10.37	33.47	111	112	P	H
	*	5240	94.24	-	-	85.66	31.68	10.37	33.47	111	112	A	H
802.11n		5457.91	48.36	-25.64	74	39.06	31.94	10.84	33.48	111	112	P	H
HT20		5438.55	39.37	-14.63	54	30.09	31.92	10.84	33.48	111	112	A	H
CH 48		5067.2	49.16	-24.84	74	40.94	31.48	10.21	33.47	298	149	P	V
5240MHz		5083.4	39.95	-14.05	54	31.71	31.5	10.21	33.47	298	149	A	V
	*	5240	96.04	-	-	87.46	31.68	10.37	33.47	298	149	P	V
	*	5240	89.12	-	-	80.54	31.68	10.37	33.47	298	149	A	V
		5446.25	47.81	-26.19	74	38.51	31.94	10.84	33.48	298	149	P	V
		5457.25	39.38	-14.62	54	30.08	31.94	10.84	33.48	298	149	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	43.11	-30.89	74	55.96	39.79	14.86	67.5	100	0	P	H
		15540	40.11	-33.89	74	49.01	38.6	17.89	65.39	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	42.48	-31.52	74	55.33	39.79	14.86	67.5	100	0	P	V
5180MHz		15540	39.31	-34.69	74	48.21	38.6	17.89	65.39	100	0	P	V
													V
													V
		10440	41.49	-32.51	74	54.19	39.89	14.91	67.5	100	0	P	H
		15660	40.81	-33.19	74	50.01	38.23	17.94	65.37	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	42.24	-31.76	74	54.94	39.89	14.91	67.5	100	0	P	V
5220MHz		15660	38.76	-35.24	74	47.96	38.23	17.94	65.37	100	0	P	V
													V
													V
		10480	42.3	-31.7	74	54.89	39.97	14.94	67.5	100	0	P	H
		15720	40.29	-33.71	74	49.65	38.03	17.97	65.36	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	42.38	-31.62	74	54.97	39.97	14.94	67.5	100	0	P	V
5240MHz		15720	38.89	-35.11	74	48.25	38.03	17.97	65.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5031.65	49.19	-24.81	74	41.02	31.44	10.2	33.47	102	104	P	H
		5149.1	43.17	-10.83	54	34.83	31.58	10.23	33.47	102	104	A	H
	*	5190	98.76	-	-	90.37	31.62	10.24	33.47	102	104	P	H
	*	5190	91.75	-	-	83.36	31.62	10.24	33.47	102	104	A	H
		5438.88	47.69	-26.31	74	38.41	31.92	10.84	33.48	102	104	P	H
		5459.23	40.11	-13.89	54	30.81	31.94	10.84	33.48	102	104	A	H
		5066	48.31	-25.69	74	40.09	31.48	10.21	33.47	274	150	P	V
		5086.25	40.85	-13.15	54	32.61	31.5	10.21	33.47	274	150	A	V
	*	5190	94.68	-	-	86.29	31.62	10.24	33.47	274	150	P	V
	*	5190	87.99	-	-	79.6	31.62	10.24	33.47	274	150	A	V
		5364.85	48.33	-25.67	74	39.22	31.84	10.75	33.48	274	150	P	V
		5439.43	40.2	-13.8	54	30.92	31.92	10.84	33.48	274	150	A	V
802.11n HT40 CH 46 5230MHz		5120	49.46	-24.54	74	41.17	31.54	10.22	33.47	107	103	P	H
		5127.65	40.7	-13.3	54	32.39	31.56	10.22	33.47	107	103	A	H
	*	5230	98.72	-	-	90.14	31.68	10.37	33.47	107	103	P	H
	*	5230	92.1	-	-	83.52	31.68	10.37	33.47	107	103	A	H
		5448.01	47.65	-26.35	74	38.35	31.94	10.84	33.48	107	103	P	H
		5406.87	40.17	-13.83	54	30.9	31.88	10.87	33.48	107	103	A	H
		5000.15	48.48	-25.52	74	40.36	31.4	10.19	33.47	299	151	P	V
		5093.9	40.36	-13.64	54	32.1	31.52	10.21	33.47	299	151	A	V
	*	5230	92.59	-	-	84.01	31.68	10.37	33.47	299	151	P	V
	*	5230	86.27	-	-	77.69	31.68	10.37	33.47	299	151	A	V
		5381.24	47.96	-26.04	74	38.71	31.86	10.87	33.48	299	151	P	V
		5460	40.01	-13.99	54	30.71	31.94	10.84	33.48	299	151	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	42.99	-31.01	74	55.82	39.81	14.86	67.5	100	0	P	H
		15570	39.54	-34.46	74	48.54	38.49	17.9	65.39	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	43.21	-30.79	74	56.04	39.81	14.86	67.5	100	0	P	V
5190MHz		15570	39.66	-34.34	74	48.66	38.49	17.9	65.39	100	0	P	V
													V
													V
		10460	41.65	-32.35	74	54.32	39.92	14.91	67.5	100	0	P	H
		15690	40.22	-33.78	74	49.49	38.13	17.96	65.36	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	43.01	-30.99	74	55.68	39.92	14.91	67.5	100	0	P	V
5230MHz		15690	38.57	-35.43	74	47.84	38.13	17.96	65.36	100	0	P	V
													V
													V

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5133.2	47.84	-26.16	74	39.53	31.56	10.22	33.47	107	105	P	H
		5136.95	42.39	-11.61	54	34.08	31.56	10.22	33.47	107	105	A	H
	*	5210	92.16	-	-	83.73	31.66	10.24	33.47	107	105	P	H
	*	5210	86.26	-	-	77.83	31.66	10.24	33.47	107	105	A	H
		5376.07	48.44	-25.56	74	39.33	31.84	10.75	33.48	107	105	P	H
		5448.01	41.35	-12.65	54	32.05	31.94	10.84	33.48	107	105	A	H
		5054	48.95	-25.05	74	40.76	31.46	10.2	33.47	321	169	P	V
		5076.95	41.94	-12.06	54	33.7	31.5	10.21	33.47	321	169	A	V
	*	5210	86.47	-	-	78.04	31.66	10.24	33.47	321	169	P	V
	*	5210	80.21	-	-	71.78	31.66	10.24	33.47	321	169	A	V
		5372.11	48.03	-25.97	74	38.92	31.84	10.75	33.48	321	169	P	V
		5436.35	41.01	-12.99	54	31.73	31.92	10.84	33.48	321	169	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	43.7	-30.3	74	56.44	39.87	14.89	67.5	100	0	P	H
		15630	38.73	-35.27	74	47.87	38.29	17.94	65.37	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	42.06	-31.94	74	54.8	39.87	14.89	67.5	100	0	P	V
5210MHz		15630	37.95	-36.05	74	47.09	38.29	17.94	65.37	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5104.7	48.51	-25.49	74	40.24	31.52	10.22	33.47	100	96	P	H
		5085.5	39.75	-14.25	54	31.51	31.5	10.21	33.47	100	96	A	H
	*	5260	103.25	-	-	94.64	31.72	10.37	33.48	100	96	P	H
	*	5260	95.13	-	-	86.52	31.72	10.37	33.48	100	96	A	H
		5455.16	47.86	-26.14	74	38.56	31.94	10.84	33.48	100	96	P	H
		5451.75	39.35	-14.65	54	30.05	31.94	10.84	33.48	100	96	A	H
		5080.85	47.84	-26.16	74	39.6	31.5	10.21	33.47	103	176	P	V
		5087.15	39.74	-14.26	54	31.5	31.5	10.21	33.47	103	176	A	V
	*	5260	97.34	-	-	88.73	31.72	10.37	33.48	103	176	P	V
	*	5260	89.64	-	-	81.03	31.72	10.37	33.48	103	176	A	V
		5433.27	48.05	-25.95	74	38.77	31.92	10.84	33.48	103	176	P	V
		5405.66	39.33	-14.67	54	30.06	31.88	10.87	33.48	103	176	A	V
802.11a CH 60 5300MHz		5051.3	49.56	-24.44	74	41.37	31.46	10.2	33.47	100	95	P	H
		5087.45	39.71	-14.29	54	31.47	31.5	10.21	33.47	100	95	A	H
	*	5300	103.67	-	-	94.9	31.76	10.49	33.48	100	95	P	H
	*	5300	95.54	-	-	86.77	31.76	10.49	33.48	100	95	A	H
		5352.53	49.59	-24.41	74	40.5	31.82	10.75	33.48	100	95	P	H
		5352.53	43.35	-10.65	54	34.26	31.82	10.75	33.48	100	95	A	H
		5014.7	48.38	-25.62	74	40.24	31.42	10.19	33.47	100	174	P	V
		5111.45	39.7	-14.3	54	31.41	31.54	10.22	33.47	100	174	A	V
	*	5300	98.08	-	-	89.31	31.76	10.49	33.48	100	174	P	V
	*	5300	90.09	-	-	81.32	31.76	10.49	33.48	100	174	A	V
		5427.66	48.58	-25.42	74	39.32	31.9	10.84	33.48	100	174	P	V
		5352.53	40.43	-13.57	54	31.34	31.82	10.75	33.48	100	174	A	V

802.11a CH 64 5320MHz	*	5320	103.53	-	-	94.61	31.78	10.62	33.48	100	95	P	H
	*	5320	95.79	-	-	86.87	31.78	10.62	33.48	100	95	A	H
		5372.33	49.78	-24.22	74	40.67	31.84	10.75	33.48	100	95	P	H
		5372.11	43.39	-10.61	54	34.28	31.84	10.75	33.48	100	95	A	H
													H
													H
	*	5320	98.16	-	-	89.24	31.78	10.62	33.48	100	175	P	V
	*	5320	90.47	-	-	81.55	31.78	10.62	33.48	100	175	A	V
		5372.99	49.47	-24.53	74	40.36	31.84	10.75	33.48	100	175	P	V
		5372.11	40.74	-13.26	54	31.63	31.84	10.75	33.48	100	175	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	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	41.6	-32.4	74	54.11	40.01	14.96	67.48	100	0	P	H
		15780	36.36	-37.64	74	45.84	37.87	17.99	65.34	100	0	P	H
													H
													H
		10520	41.93	-32.07	74	54.44	40.01	14.96	67.48	100	0	P	V
		15780	36.85	-37.15	74	46.33	37.87	17.99	65.34	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	41.29	-32.71	74	53.61	40.06	15.02	67.4	100	0	P	H
		15900	36.56	-37.44	74	46.33	37.51	18.04	65.32	100	0	P	H
													H
													H
		10600	40.55	-33.45	74	52.87	40.06	15.02	67.4	100	0	P	V
		15900	36.39	-37.61	74	46.16	37.51	18.04	65.32	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	40.5	-33.5	74	52.74	40.08	15.04	67.36	100	0	P	H
		15960	36.86	-37.14	74	46.79	37.3	18.08	65.31	100	0	P	H
													H
													H
		10640	40.67	-33.33	74	52.91	40.08	15.04	67.36	100	0	P	V
		15960	36.88	-37.12	74	46.81	37.3	18.08	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5072	48.49	-25.51	74	40.25	31.5	10.21	33.47	121	113	P	H
		5101.4	39.79	-14.21	54	31.52	31.52	10.22	33.47	121	113	A	H
	*	5260	102.06	-	-	93.45	31.72	10.37	33.48	121	113	P	H
	*	5260	94.62	-	-	86.01	31.72	10.37	33.48	121	113	A	H
802.11n		5403.02	48.45	-25.55	74	39.18	31.88	10.87	33.48	121	113	P	H
HT20		5457.14	39.35	-14.65	54	30.05	31.94	10.84	33.48	121	113	A	H
CH 52		5065.85	48.21	-25.79	74	39.99	31.48	10.21	33.47	281	148	P	V
5260MHz		5090.6	39.75	-14.25	54	31.49	31.52	10.21	33.47	281	148	A	V
	*	5260	96.95	-	-	88.34	31.72	10.37	33.48	281	148	P	V
	*	5260	89.55	-	-	80.94	31.72	10.37	33.48	281	148	A	V
		5404.89	48.16	-25.84	74	38.89	31.88	10.87	33.48	281	148	P	V
		5415.34	39.26	-14.74	54	29.97	31.9	10.87	33.48	281	148	A	V
		5072.15	48.51	-25.49	74	40.27	31.5	10.21	33.47	253	107	P	H
		5115.05	39.84	-14.16	54	31.55	31.54	10.22	33.47	253	107	A	H
	*	5300	101.98	-	-	93.21	31.76	10.49	33.48	253	107	P	H
	*	5300	95.07	-	-	86.3	31.76	10.49	33.48	253	107	A	H
802.11n		5399.94	48.86	-25.14	74	39.59	31.88	10.87	33.48	253	107	P	H
HT20		5351.76	42.66	-11.34	54	33.57	31.82	10.75	33.48	253	107	A	H
CH 60		5054.45	48.69	-25.31	74	40.5	31.46	10.2	33.47	276	149	P	V
5300MHz		5099.75	39.76	-14.24	54	31.5	31.52	10.21	33.47	276	149	A	V
	*	5300	96.42	-	-	87.65	31.76	10.49	33.48	276	149	P	V
	*	5300	90.02	-	-	81.25	31.76	10.49	33.48	276	149	A	V
		5351.87	48.17	-25.83	74	39.08	31.82	10.75	33.48	276	149	P	V
		5351.98	40.3	-13.7	54	31.21	31.82	10.75	33.48	276	149	A	V

	*	5320	102.77	-	-	93.85	31.78	10.62	33.48	102	107	P	H
	*	5320	95.36	-	-	86.44	31.78	10.62	33.48	102	107	A	H
		5372	50.04	-23.96	74	40.93	31.84	10.75	33.48	102	107	P	H
		5371.78	43.05	-10.95	54	33.94	31.84	10.75	33.48	102	107	A	H
802.11n													H
HT20													H
CH 64	*	5320	97.7	-	-	88.78	31.78	10.62	33.48	278	149	P	V
5320MHz	*	5320	90.67	-	-	81.75	31.78	10.62	33.48	278	149	A	V
		5372.99	48.25	-25.75	74	39.14	31.84	10.75	33.48	278	149	P	V
		5372	40.45	-13.55	54	31.34	31.84	10.75	33.48	278	149	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	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)
		10520	42.5	-31.5	74	55.01	40.01	14.96	67.48	100	0	P	H
		15780	37.32	-36.68	74	46.8	37.87	17.99	65.34	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	42.68	-31.32	74	55.19	40.01	14.96	67.48	100	0	P	V
5260MHz		15780	37.91	-36.09	74	47.39	37.87	17.99	65.34	100	0	P	V
													V
													V
		10600	41.53	-32.47	74	53.85	40.06	15.02	67.4	100	0	P	H
		15900	37.42	-36.58	74	47.19	37.51	18.04	65.32	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	42.65	-31.35	74	54.97	40.06	15.02	67.4	100	0	P	V
5300MHz		15900	37.46	-36.54	74	47.23	37.51	18.04	65.32	100	0	P	V
													V
													V
		10640	41.59	-32.41	74	53.83	40.08	15.04	67.36	100	0	P	H
		15960	36.68	-37.32	74	46.61	37.3	18.08	65.31	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	42.53	-31.47	74	54.77	40.08	15.04	67.36	100	0	P	V
5320MHz		15960	37.51	-36.49	74	47.44	37.3	18.08	65.31	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5000	48.69	-25.31	74	40.57	31.4	10.19	33.47	106	107	P	H
		5110.4	40.33	-13.67	54	32.04	31.54	10.22	33.47	106	107	A	H
	*	5270	98.48	-	-	89.75	31.72	10.49	33.48	106	107	P	H
	*	5270	92.24	-	-	83.51	31.72	10.49	33.48	106	107	A	H
		5455.82	49	-25	74	39.7	31.94	10.84	33.48	106	107	P	H
		5373.1	40.64	-13.36	54	31.53	31.84	10.75	33.48	106	107	A	H
		5031.05	47.93	-26.07	74	39.76	31.44	10.2	33.47	279	151	P	V
		5053.4	40.65	-13.35	54	32.46	31.46	10.2	33.47	279	151	A	V
	*	5270	92.92	-	-	84.19	31.72	10.49	33.48	279	151	P	V
	*	5270	86.93	-	-	78.2	31.72	10.49	33.48	279	151	A	V
		5409.4	48.71	-25.29	74	39.44	31.88	10.87	33.48	279	151	P	V
		5454.06	40.04	-13.96	54	30.74	31.94	10.84	33.48	279	151	A	V
802.11n HT40 CH 62 5310MHz		5013.8	48.46	-25.54	74	40.32	31.42	10.19	33.47	104	107	P	H
		5043.95	40.63	-13.37	54	32.44	31.46	10.2	33.47	104	107	A	H
	*	5310	99.72	-	-	90.8	31.78	10.62	33.48	104	107	P	H
	*	5310	92.48	-	-	83.56	31.78	10.62	33.48	104	107	A	H
		5350.66	49.39	-24.61	74	40.3	31.82	10.75	33.48	104	107	P	H
		5351.1	41.02	-12.98	54	31.93	31.82	10.75	33.48	104	107	A	H
		5027.9	49	-25	74	40.83	31.44	10.2	33.47	293	167	P	V
		5083.25	40.46	-13.54	54	32.22	31.5	10.21	33.47	293	167	A	V
	*	5310	94.19	-	-	85.27	31.78	10.62	33.48	293	167	P	V
	*	5310	86.82	-	-	77.9	31.78	10.62	33.48	293	167	A	V
		5446.25	48.32	-25.68	74	39.02	31.94	10.84	33.48	293	167	P	V
		5444.93	40.14	-13.86	54	30.86	31.92	10.84	33.48	293	167	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	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)
		10540	41.65	-32.35	74	54.14	40.02	14.96	67.47	100	0	P	H
		15810	38.18	-35.82	74	47.74	37.77	18.01	65.34	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	41.79	-32.21	74	54.28	40.02	14.96	67.47	100	0	P	V
5270MHz		15810	38.62	-35.38	74	48.18	37.77	18.01	65.34	100	0	P	V
													V
													V
		10620	40.94	-33.06	74	53.23	40.07	15.02	67.38	100	0	P	H
		15930	37.31	-36.69	74	47.15	37.41	18.06	65.31	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	41.89	-32.11	74	54.18	40.07	15.02	67.38	100	0	P	V
5310MHz		15930	36.32	-37.68	74	46.16	37.41	18.06	65.31	100	0	P	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5110.25	49.31	-24.69	74	41.02	31.54	10.22	33.47	104	99	P	H
		5137.7	42.14	-11.86	54	33.83	31.56	10.22	33.47	104	99	A	H
	*	5290	94.24	-	-	85.49	31.74	10.49	33.48	104	99	P	H
	*	5290	87.7	-	-	78.95	31.74	10.49	33.48	104	99	A	H
		5354.4	48.58	-25.42	74	39.49	31.82	10.75	33.48	104	99	P	H
		5350	42.55	-11.45	54	33.46	31.82	10.75	33.48	104	99	A	H
		5006.15	48.85	-25.15	74	40.71	31.42	10.19	33.47	310	167	P	V
		5104.7	41.85	-12.15	54	33.58	31.52	10.22	33.47	310	167	A	V
	*	5290	87.76	-	-	79.01	31.74	10.49	33.48	310	167	P	V
	*	5290	81.75	-	-	73	31.74	10.49	33.48	310	167	A	V
		5445.7	47.99	-26.01	74	38.69	31.94	10.84	33.48	310	167	P	V
		5451.86	41.52	-12.48	54	32.22	31.94	10.84	33.48	310	167	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	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)
		10580	42.5	-31.5	74	54.87	40.05	14.99	67.41	100	0	P	H
		15870	37.66	-36.34	74	47.38	37.56	18.04	65.32	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	41.55	-32.45	74	53.92	40.05	14.99	67.41	100	0	P	V
5290MHz		15870	38.16	-35.84	74	47.88	37.56	18.04	65.32	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5447.76	50.97	-23.03	74	41.67	31.94	10.84	33.48	100	98	P	H
		5447.6	43.72	-10.28	54	34.42	31.94	10.84	33.48	100	98	A	H
	*	5500	104.98	-	-	95.65	32	10.81	33.48	100	98	P	H
	*	5500	97.25	-	-	87.92	32	10.81	33.48	100	98	A	H
													H
													H
		5449.68	48.03	-25.97	74	38.73	31.94	10.84	33.48	100	172	P	V
		5447.76	40.81	-13.19	54	31.51	31.94	10.84	33.48	100	172	A	V
	*	5500	98.84	-	-	89.51	32	10.81	33.48	100	172	P	V
	*	5500	91.41	-	-	82.08	32	10.81	33.48	100	172	A	V
													V
													V
802.11a CH 116 5580MHz		5451.76	47.78	-26.22	74	38.48	31.94	10.84	33.48	100	98	P	H
		5465.84	39.58	-14.42	54	30.29	31.96	10.81	33.48	100	98	A	H
	*	5580	104.72	-	-	95.4	32.1	10.74	33.52	100	98	P	H
	*	5580	96.26	-	-	86.94	32.1	10.74	33.52	100	98	A	H
		5744.04	48.52	-25.48	74	39.12	32.34	10.63	33.57	100	98	P	H
		5740.68	39.73	-14.27	54	30.33	32.34	10.63	33.57	100	98	A	H
		5426.64	49.2	-24.8	74	39.94	31.9	10.84	33.48	100	171	P	V
		5466.16	39.34	-14.66	54	30.05	31.96	10.81	33.48	100	171	A	V
	*	5580	99.45	-	-	90.13	32.1	10.74	33.52	100	171	P	V
	*	5580	91.13	-	-	81.81	32.1	10.74	33.52	100	171	A	V
		5759.32	48.05	-25.95	74	38.64	32.36	10.63	33.58	100	171	P	V
		5746.52	39.88	-14.12	54	30.48	32.34	10.63	33.57	100	171	A	V

802.11a CH 140 5700MHz	*	5700	104.13	-	-	94.75	32.27	10.67	33.56	100	88	P	H
	*	5700	96.08	-	-	86.7	32.27	10.67	33.56	100	88	A	H
		5725.72	56.88	-17.12	74	47.49	32.31	10.65	33.57	100	88	P	H
		5725.32	44.76	-9.24	54	35.37	32.31	10.65	33.57	100	88	A	H
													H
													H
	*	5700	99	-	-	89.62	32.27	10.67	33.56	100	138	P	V
	*	5700	91.19	-	-	81.81	32.27	10.67	33.56	100	138	A	V
		5727.08	50.63	-23.37	74	41.24	32.31	10.65	33.57	100	138	P	V
		5752.44	41.28	-12.72	54	31.86	32.36	10.63	33.57	100	138	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 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	42.66	-31.34	74	54.09	40.3	15.27	67	100	0	P	H
		16500	37.13	-36.87	74	43.94	38.9	18.29	64	100	0	P	H
													H
													H
		11000	42.12	-31.88	74	53.55	40.3	15.27	67	100	0	P	V
		16500	37.78	-36.22	74	44.59	38.9	18.29	64	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	42.02	-31.98	74	53.04	40.17	15.38	66.57	100	0	P	H
		16740	38.45	-35.55	74	44.38	39.58	18.39	63.9	100	0	P	H
													H
													H
		11160	42.91	-31.09	74	53.93	40.17	15.38	66.57	100	0	P	V
		16740	40.6	-33.4	74	46.53	39.58	18.39	63.9	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	41.59	-32.41	74	52.04	39.98	15.53	65.96	100	0	P	H
		17100	41.02	-32.98	74	45.81	40.6	18.53	63.92	100	0	P	H
													H
													H
		11400	43.39	-30.61	74	53.84	39.98	15.53	65.96	100	0	P	V
		17100	42.07	-31.93	74	46.86	40.6	18.53	63.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5448.4	51.04	-22.96	74	41.74	31.94	10.84	33.48	103	103	P	H
		5448.56	43.33	-10.67	54	34.03	31.94	10.84	33.48	103	103	A	H
	*	5500	102.37	-	-	93.04	32	10.81	33.48	103	103	P	H
	*	5500	95	-	-	85.67	32	10.81	33.48	103	103	A	H
802.11n													H
HT20													H
CH 100		5417.84	48.76	-25.24	74	39.47	31.9	10.87	33.48	287	145	P	V
5500MHz		5448.56	41.18	-12.82	54	31.88	31.94	10.84	33.48	287	145	A	V
	*	5500	97.78	-	-	88.45	32	10.81	33.48	287	145	P	V
	*	5500	90.28	-	-	80.95	32	10.81	33.48	287	145	A	V
													V
													V
		5424.56	48.2	-25.8	74	38.94	31.9	10.84	33.48	102	105	P	H
		5462.16	39.56	-14.44	54	30.29	31.94	10.81	33.48	102	105	A	H
	*	5580	103.35	-	-	94.03	32.1	10.74	33.52	102	105	P	H
	*	5580	95.95	-	-	86.63	32.1	10.74	33.52	102	105	A	H
802.11n		5755.16	48.73	-25.27	74	39.31	32.36	10.63	33.57	102	105	P	H
HT20		5764.44	40.02	-13.98	54	30.61	32.36	10.63	33.58	102	105	A	H
CH 116		5445.04	47.18	-26.82	74	37.9	31.92	10.84	33.48	293	145	P	V
5580MHz		5468.72	39.46	-14.54	54	30.17	31.96	10.81	33.48	293	145	A	V
	*	5580	98.59	-	-	89.27	32.1	10.74	33.52	293	145	P	V
	*	5580	91.86	-	-	82.54	32.1	10.74	33.52	293	145	A	V
		5742.12	49.06	-24.94	74	39.66	32.34	10.63	33.57	293	145	P	V
		5732.52	39.98	-14.02	54	30.59	32.31	10.65	33.57	293	145	A	V

	*	5700	104.12	-	-	94.74	32.27	10.67	33.56	101	97	P	H
	*	5700	97.22	-	-	87.84	32.27	10.67	33.56	101	97	A	H
		5726.04	52.37	-21.63	74	42.98	32.31	10.65	33.57	101	97	P	H
		5751.64	45.09	-8.91	54	35.67	32.36	10.63	33.57	101	97	A	H
802.11n													H
HT20													H
CH 140	*	5700	99.41	-	-	90.03	32.27	10.67	33.56	283	144	P	V
5700MHz	*	5700	92.77	-	-	83.39	32.27	10.67	33.56	283	144	A	V
		5753	49.44	-24.56	74	40.02	32.36	10.63	33.57	283	144	P	V
		5751.72	42.3	-11.7	54	32.88	32.36	10.63	33.57	283	144	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	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)
		11000	42.31	-31.69	74	53.74	40.3	15.27	67	100	0	P	H
		16500	38.04	-35.96	74	44.85	38.9	18.29	64	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	43.77	-30.23	74	55.2	40.3	15.27	67	100	0	P	V
5500MHz		16500	42.63	-31.37	74	49.44	38.9	18.29	64	100	0	P	V
													V
													V
		11160	41.56	-32.44	74	52.58	40.17	15.38	66.57	100	0	P	H
		16740	37.9	-36.1	74	43.83	39.58	18.39	63.9	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	42.12	-31.88	74	53.14	40.17	15.38	66.57	100	0	P	V
5580MHz		16740	42.14	-31.86	74	48.07	39.58	18.39	63.9	100	0	P	V
													V
													V
		11400	42.06	-31.94	74	52.51	39.98	15.53	65.96	100	0	P	H
		17100	41.72	-32.28	74	46.51	40.6	18.53	63.92	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	42.28	-31.72	74	52.73	39.98	15.53	65.96	100	0	P	V
5700MHz		17100	44.73	-29.27	74	49.52	40.6	18.53	63.92	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5470	54.31	-19.69	74	45.02	31.96	10.81	33.48	104	97	P	H
		5470	42.04	-11.96	54	32.75	31.96	10.81	33.48	104	97	A	H
	*	5510	100.26	-	-	90.98	32	10.77	33.49	104	97	P	H
	*	5510	93.11	-	-	83.83	32	10.77	33.49	104	97	A	H
802.11n		5758.52	48.13	-25.87	74	38.72	32.36	10.63	33.58	104	97	P	H
HT40		5764.84	40.6	-13.4	54	31.19	32.36	10.63	33.58	104	97	A	H
CH 102		5360.56	48.14	-25.86	74	39.03	31.84	10.75	33.48	322	164	P	V
5510MHz		5467.6	40.41	-13.59	54	31.12	31.96	10.81	33.48	322	164	A	V
	*	5510	94.14	-	-	84.86	32	10.77	33.49	322	164	P	V
	*	5510	87.76	-	-	78.48	32	10.77	33.49	322	164	A	V
		5757.96	48.8	-25.2	74	39.39	32.36	10.63	33.58	322	164	P	V
		5728.6	40.68	-13.32	54	31.29	32.31	10.65	33.57	322	164	A	V
		5447.44	49.29	-24.71	74	39.99	31.94	10.84	33.48	103	97	P	H
		5447.44	41.42	-12.58	54	32.12	31.94	10.84	33.48	103	97	A	H
	*	5550	100.4	-	-	91.09	32.07	10.74	33.5	103	97	P	H
	*	5550	93.51	-	-	84.2	32.07	10.74	33.5	103	97	A	H
802.11n		5730.44	49.36	-24.64	74	39.97	32.31	10.65	33.57	103	97	P	H
HT40		5745.16	40.33	-13.67	54	30.93	32.34	10.63	33.57	103	97	A	H
CH 110		5447.76	49.09	-24.91	74	39.79	31.94	10.84	33.48	334	163	P	V
5550MHz		5445.68	40.25	-13.75	54	30.95	31.94	10.84	33.48	334	163	A	V
	*	5550	95.17	-	-	85.86	32.07	10.74	33.5	334	163	P	V
	*	5550	88.48	-	-	79.17	32.07	10.74	33.5	334	163	A	V
		5753.96	47.54	-26.46	74	38.12	32.36	10.63	33.57	334	163	P	V
		5755.88	40.56	-13.44	54	31.15	32.36	10.63	33.58	334	163	A	V

		5404.24	47.51	-26.49	74	38.24	31.88	10.87	33.48	104	98	P	H
		5462.32	40.32	-13.68	54	31.05	31.94	10.81	33.48	104	98	A	H
	*	5670	102.02	-	-	92.66	32.24	10.67	33.55	104	98	P	H
	*	5670	94.63	-	-	85.27	32.24	10.67	33.55	104	98	A	H
802.11n		5737.16	48.65	-25.35	74	39.23	32.34	10.65	33.57	104	98	P	H
HT40		5728.6	40.95	-13.05	54	31.56	32.31	10.65	33.57	104	98	A	H
CH 134		5425.52	49.32	-24.68	74	40.06	31.9	10.84	33.48	274	144	P	V
5670MHz		5464.4	40	-14	54	30.71	31.96	10.81	33.48	274	144	A	V
	*	5670	95.75	-	-	86.39	32.24	10.67	33.55	274	144	P	V
	*	5670	89.07	-	-	79.71	32.24	10.67	33.55	274	144	A	V
		5730.12	48.45	-25.55	74	39.06	32.31	10.65	33.57	274	144	P	V
		5739.24	40.61	-13.39	54	31.19	32.34	10.65	33.57	274	144	A	V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	42.21	-31.79	74	53.61	40.29	15.27	66.96	100	0	P	H
		16530	37.68	-36.32	74	44.36	39	18.31	63.99	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	43.2	-30.8	74	54.6	40.29	15.27	66.96	100	0	P	V
5510MHz		16530	37.61	-36.39	74	44.29	39	18.31	63.99	100	0	P	V
													V
													V
		11100	42.81	-31.19	74	54	40.22	15.33	66.74	100	0	P	H
		16650	37.47	-36.53	74	43.72	39.33	18.36	63.94	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	42.76	-31.24	74	53.95	40.22	15.33	66.74	100	0	P	V
5550MHz		16650	40.59	-33.41	74	46.84	39.33	18.36	63.94	100	0	P	V
													V
													V
		11340	42.5	-31.5	74	53.12	40.03	15.48	66.13	100	0	P	H
		17010	39.52	-34.48	74	44.49	40.35	18.5	63.82	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	43	-31	74	53.62	40.03	15.48	66.13	100	0	P	V
5670MHz		17010	43.49	-30.51	74	48.46	40.35	18.5	63.82	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5085.65	48.84	-25.16	74	40.6	31.5	10.21	33.47	102	99	P	H
		5055.05	42.07	-11.93	54	33.86	31.48	10.2	33.47	102	99	A	H
	*	5530	94.84	-	-	85.55	32.02	10.77	33.5	102	99	P	H
	*	5530	88.1	-	-	78.81	32.02	10.77	33.5	102	99	A	H
		5459.78	49.13	-24.87	74	39.83	31.94	10.84	33.48	102	99	P	H
		5434.7	41.75	-12.25	54	32.47	31.92	10.84	33.48	102	99	A	H
		5134.55	48.66	-25.34	74	40.35	31.56	10.22	33.47	301	163	P	V
		5130.35	41.88	-12.12	54	33.57	31.56	10.22	33.47	301	163	A	V
	*	5530	89.85	-	-	80.56	32.02	10.77	33.5	301	163	P	V
	*	5530	83.09	-	-	73.8	32.02	10.77	33.5	301	163	A	V
		5410.5	48.18	-25.82	74	38.91	31.88	10.87	33.48	301	163	P	V
		5401.59	41.74	-12.26	54	32.47	31.88	10.87	33.48	301	163	A	V
802.11ac VHT80 CH 122 5610MHz													H
													H
													H
													H
													H
													H
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	41.94	-32.06	74	53.22	40.25	15.3	66.83	100	0	P	H
		16590	37.54	-36.46	74	44.03	39.14	18.34	63.97	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	41.29	-32.71	74	52.57	40.25	15.3	66.83	100	0	P	V
5530MHz		16590	38.18	-35.82	74	44.67	39.14	18.34	63.97	100	0	P	V
													V
													V
													H
													H
802.11ac													H
VHT80													H
CH 122													V
5610MHz													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30	23.38	-16.62	40	28.58	25.7	0.93	31.83			P	H
		102.09	23.13	-20.37	43.5	37.11	16.32	1.48	31.78			P	H
		163.11	24.91	-18.59	43.5	38.41	16.6	1.68	31.78			P	H
		629.7	27.79	-18.21	46	30.48	25.99	3.36	32.04			P	H
		840.4	31.41	-14.59	46	30.58	28.78	3.77	31.72	179	68	P	H
		967.8	33.23	-20.77	54	29.67	30.56	3.89	30.89			P	H
													H
													H
													H
													H
													H
													H
		39.99	34.64	-5.36	40	45.23	20.3	0.93	31.82	271	145	P	V
		55.38	26.3	-13.7	40	43.77	13.4	0.93	31.8			P	V
		98.31	25.85	-17.65	43.5	40.6	15.86	1.17	31.78			P	V
		723.5	29.37	-16.63	46	30.67	27.17	3.54	32.01			P	V
		825.7	30.95	-15.05	46	30.36	28.61	3.77	31.79			P	V
		911.1	36.01	-9.99	46	33.99	29.5	3.86	31.34			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. Level(dBµV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBµV/m)

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

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

= 55.45 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 55.45(dBµV/m) – 74(dBµV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBµV/m)

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

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

= 43.54 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 43.54(dBµV/m) – 54(dBµV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission

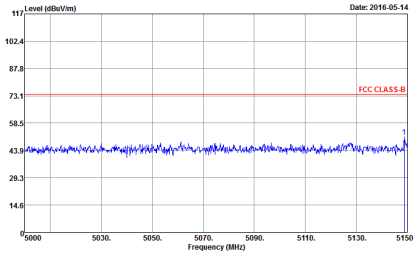
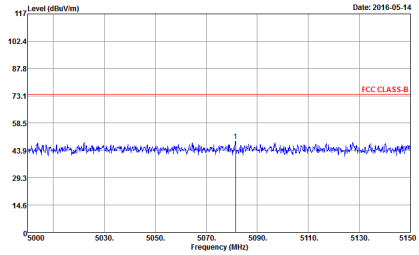
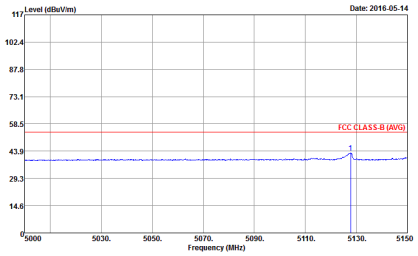
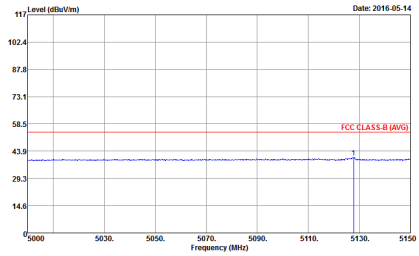
Test Engineer :	J.C. Liang, Bill Chang, Ken Wu, and Kyle Jhuang	**Temperature :**	20~23°C
		Relative Humidity :	50~53%

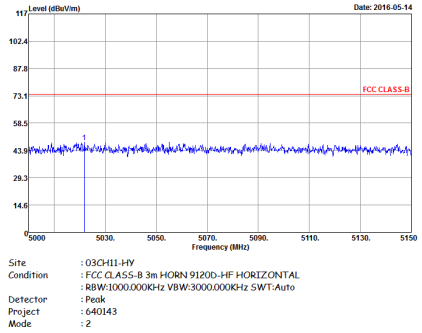
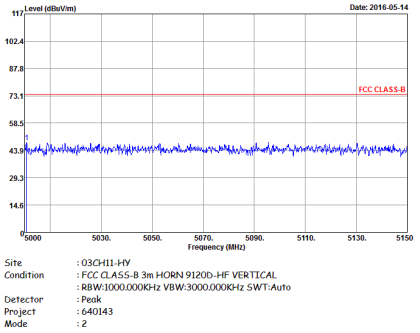
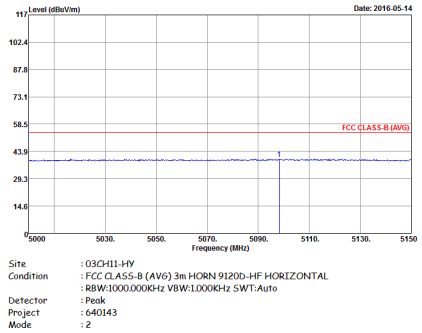
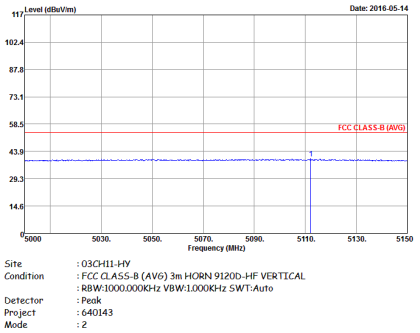
Note symbol

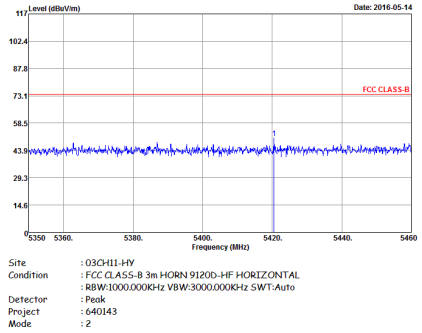
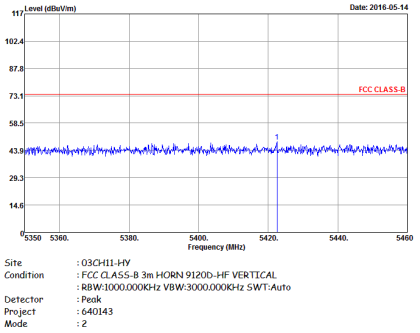
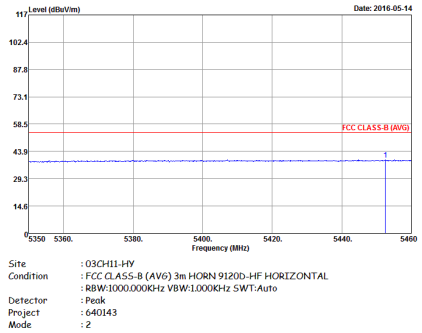
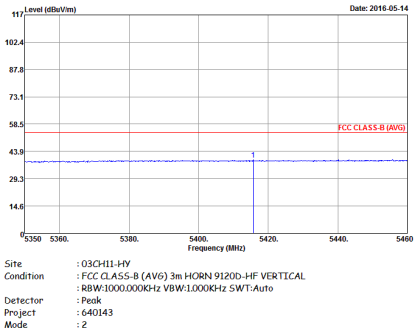
-L	**Low channel location**
-R	**High channel location**

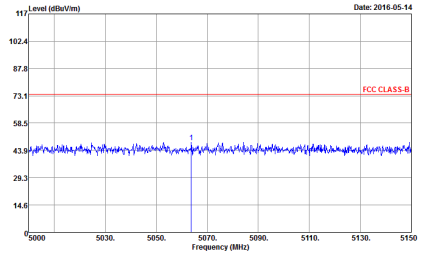
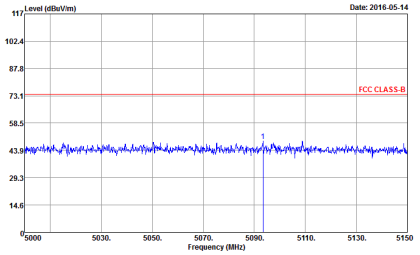
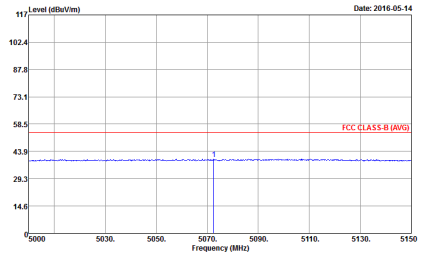
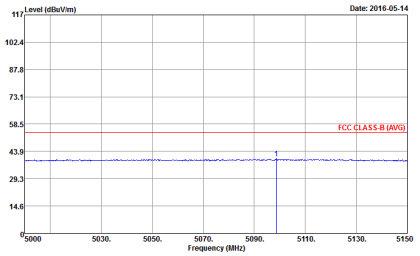
Band 1 - 5150~5250MHz

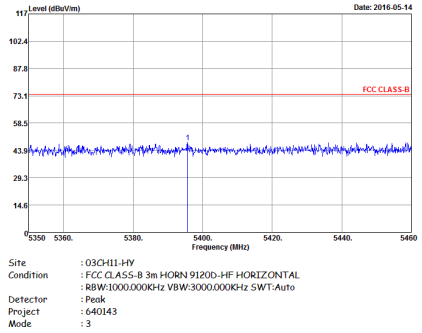
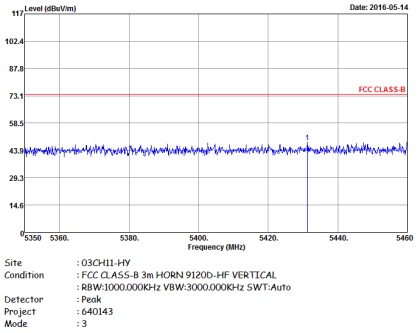
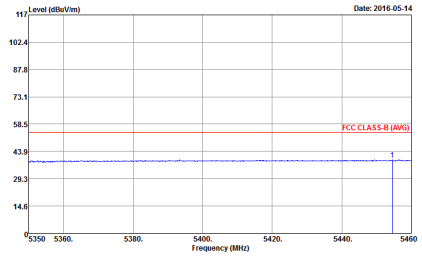
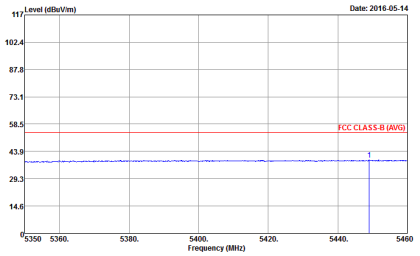
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 1	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 1
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 1	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 1

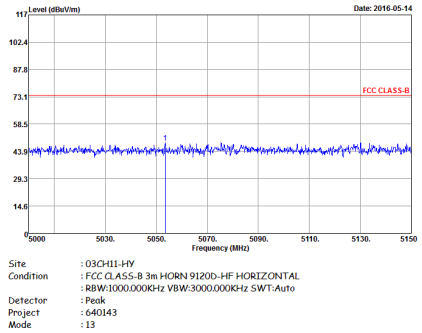
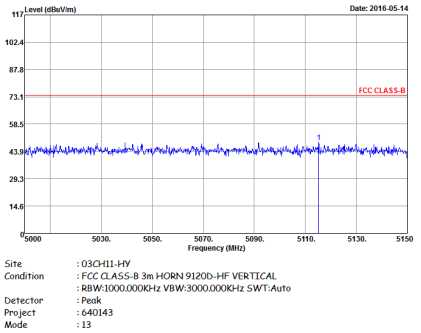
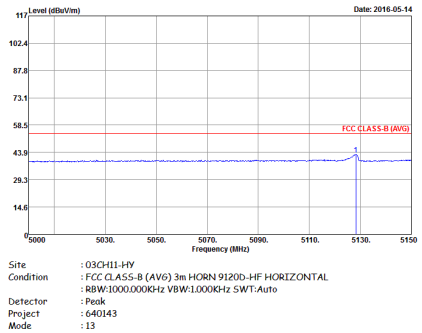
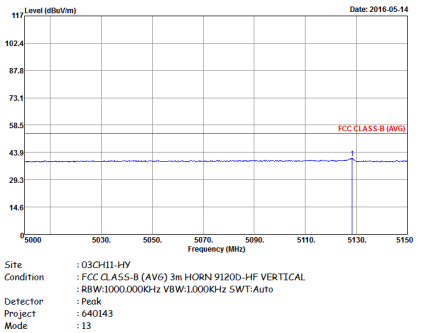
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2

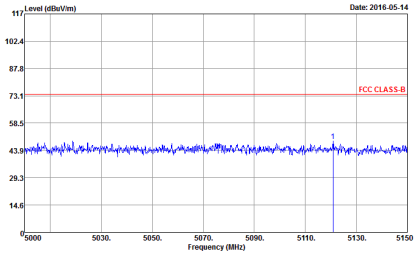
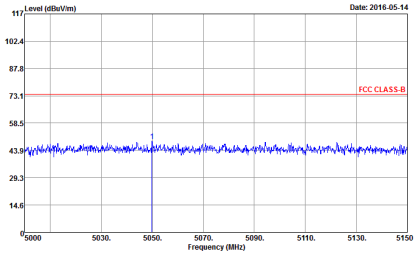
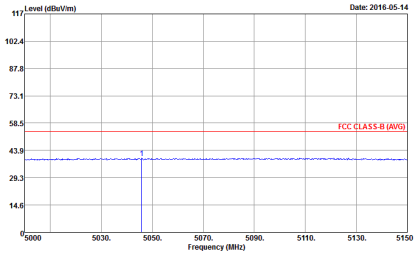
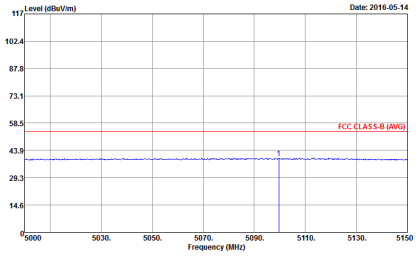
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 2

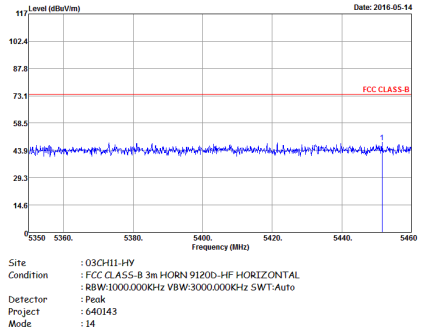
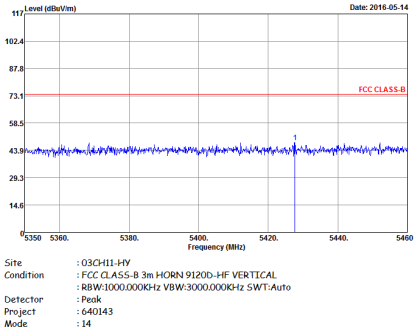
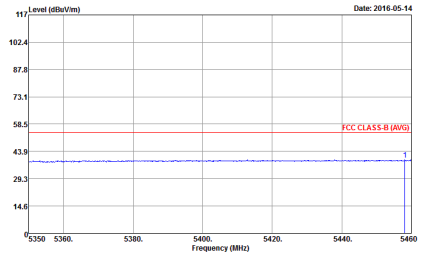
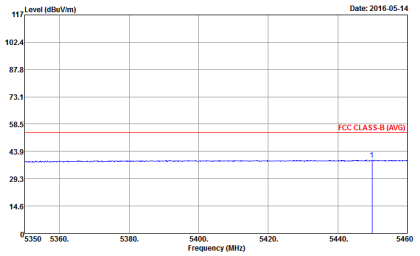
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3

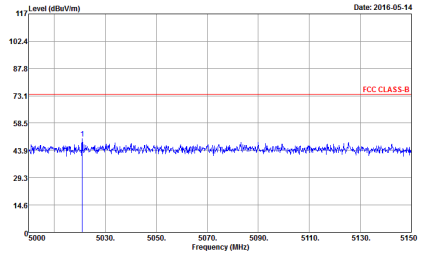
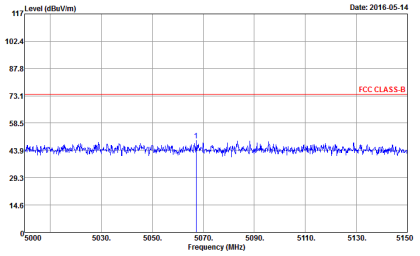
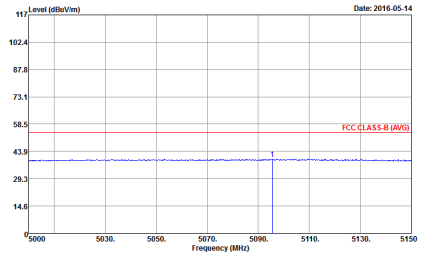
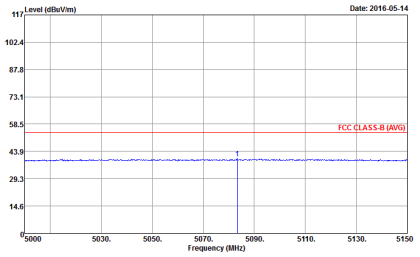
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 3

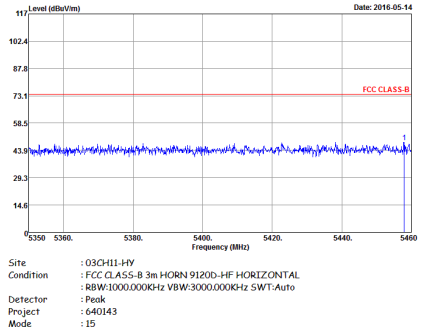
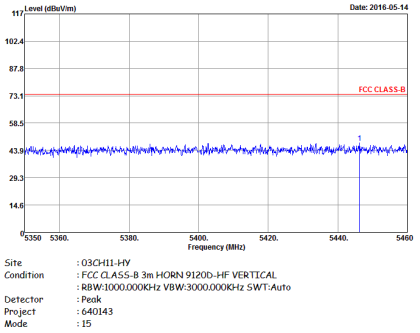
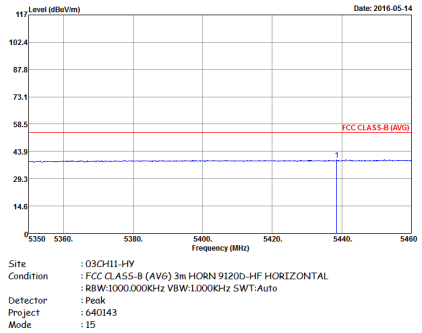
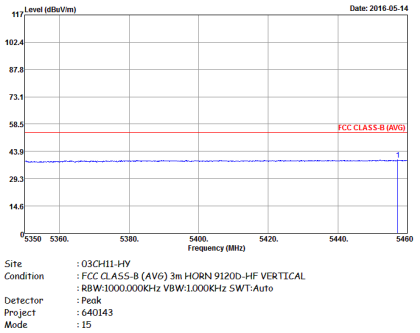
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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

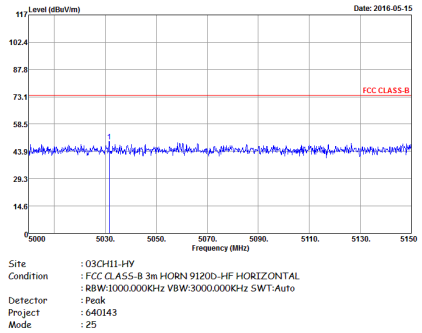
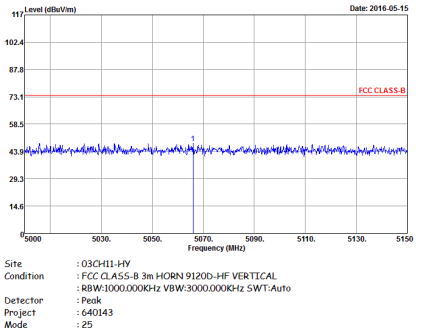
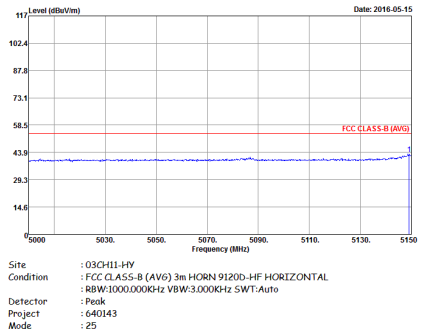
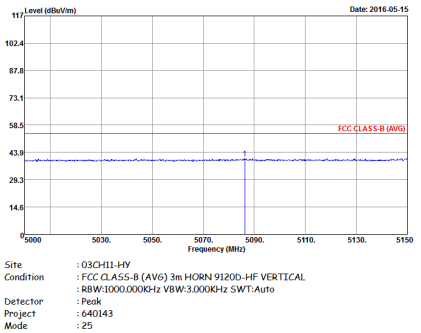
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14

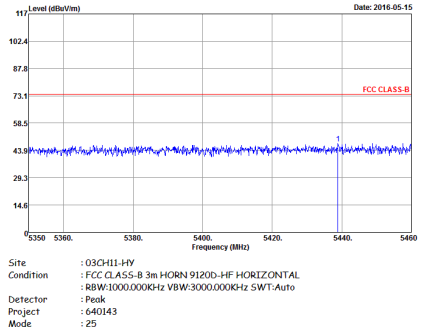
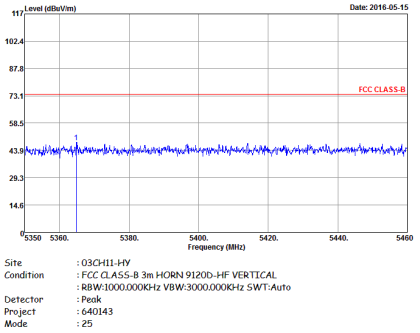
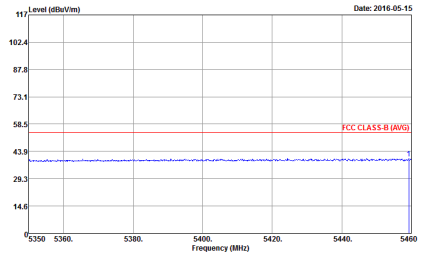
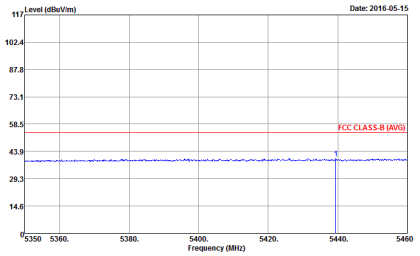
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 14

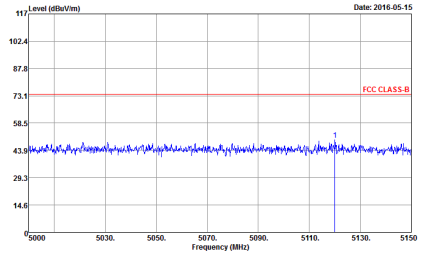
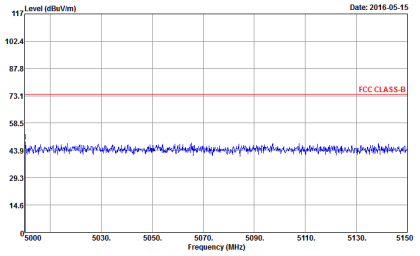
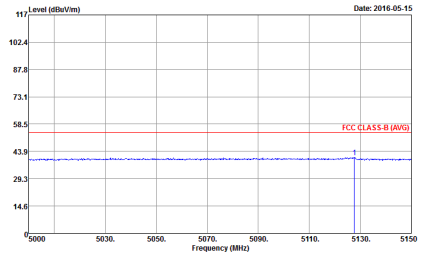
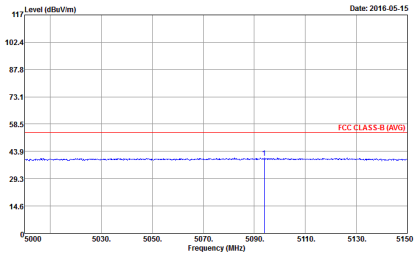
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15

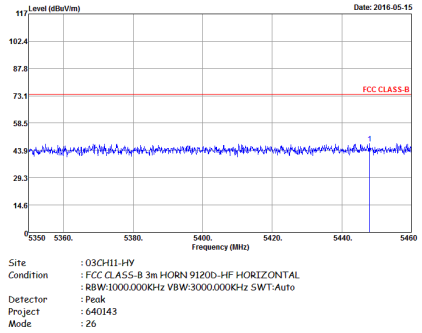
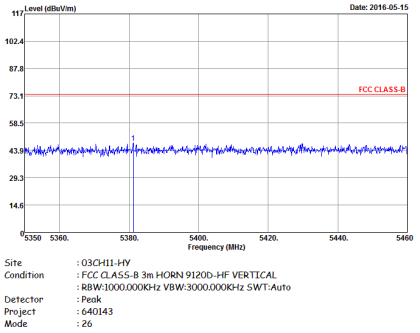
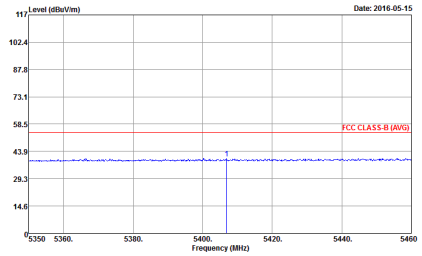
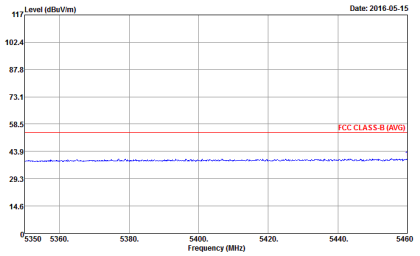
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 15

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

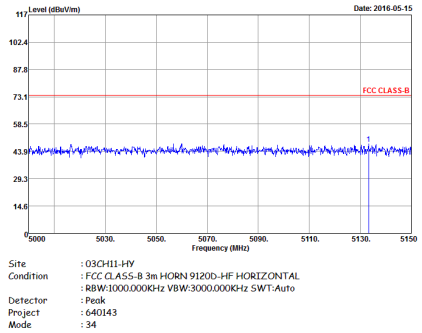
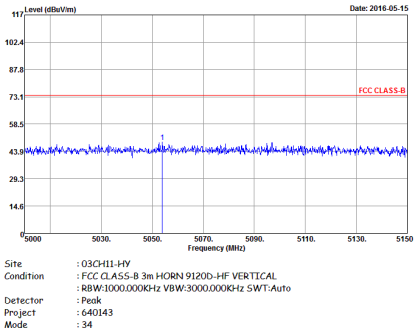
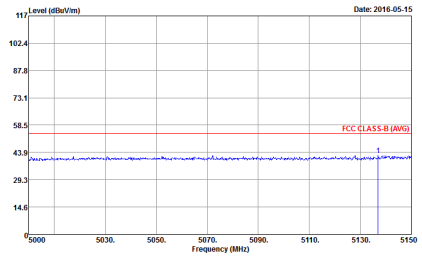
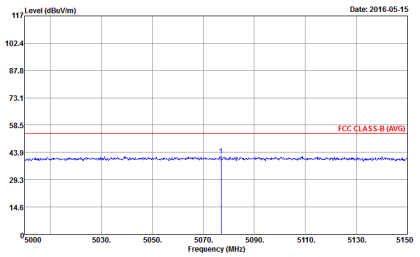
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

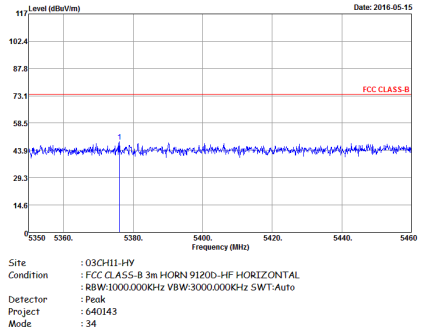
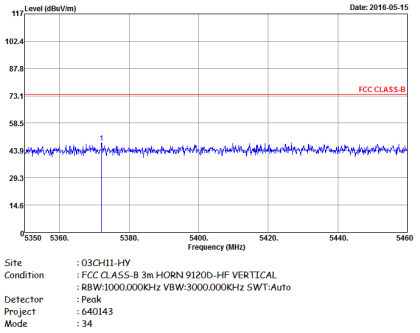
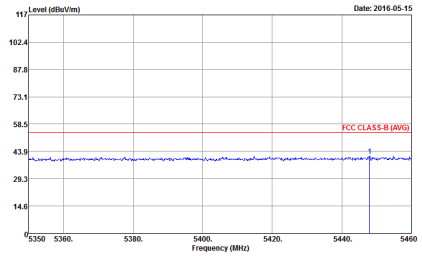
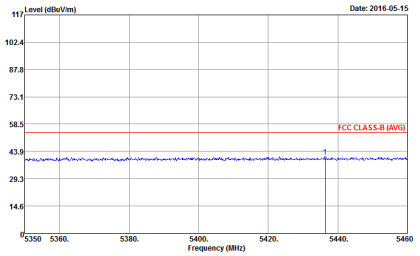
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 25	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 25
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 25	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 25

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 26

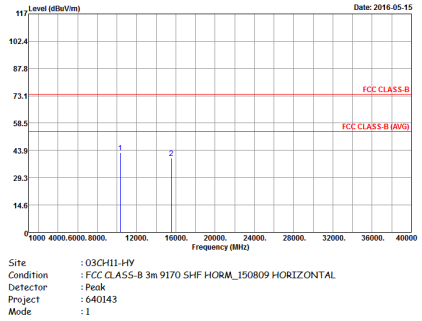
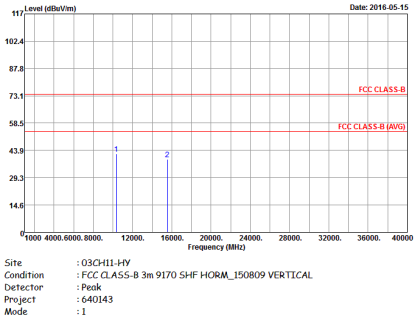
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

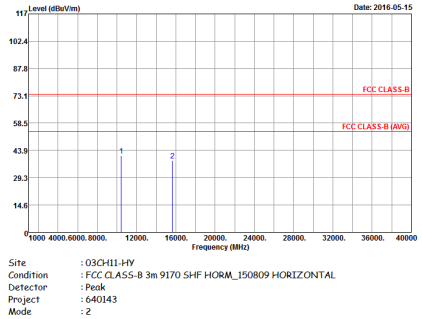
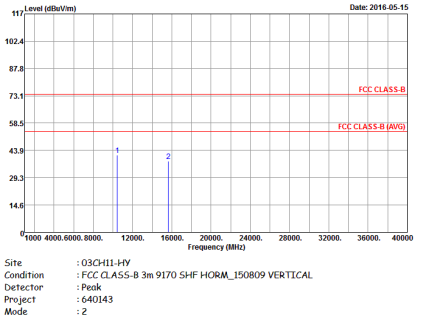
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34

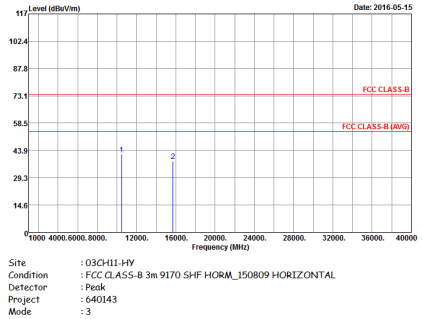
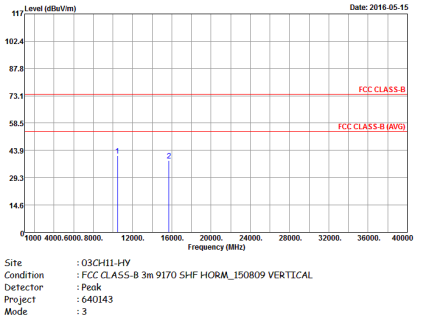
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 34

Band 1 - 5150~5250MHz

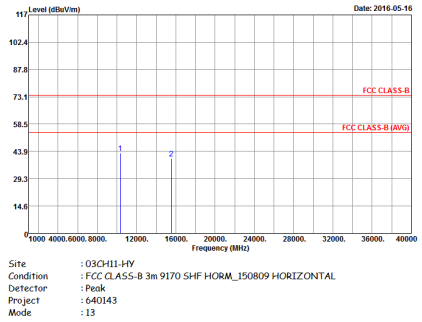
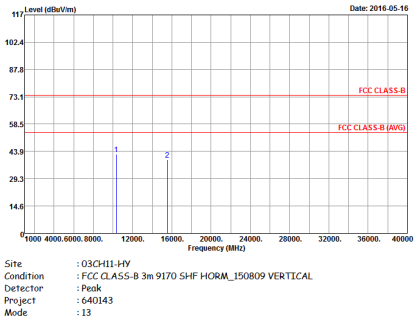
WIFI 802.11a (Harmonic @ 3m)

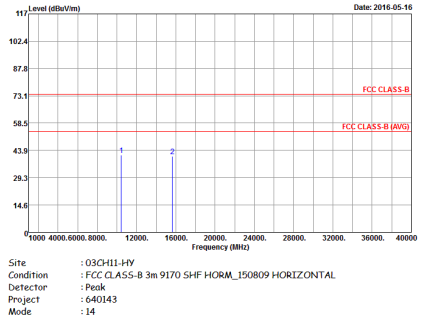
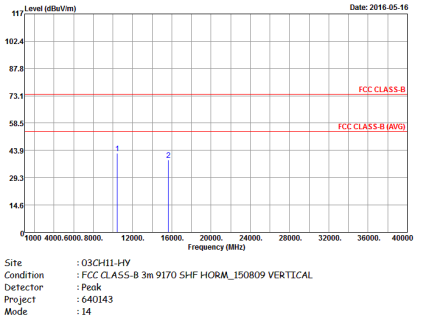
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

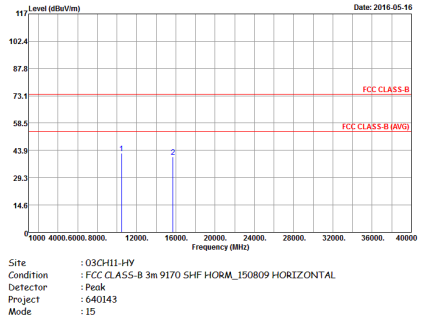
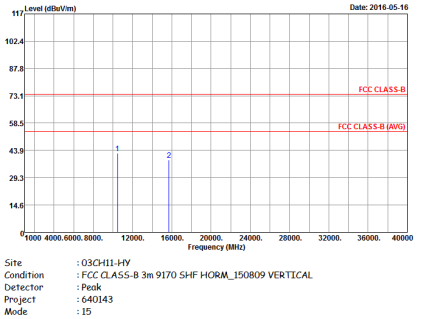
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

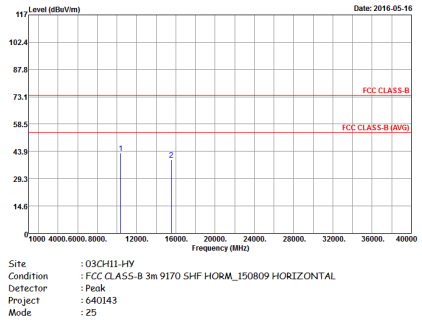
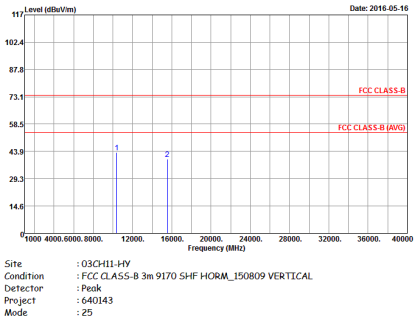
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

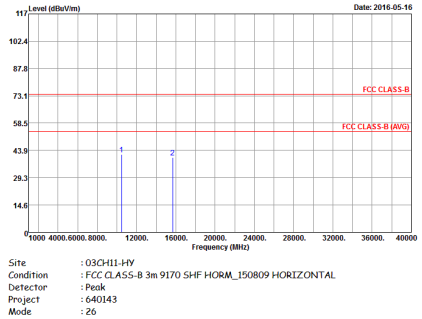
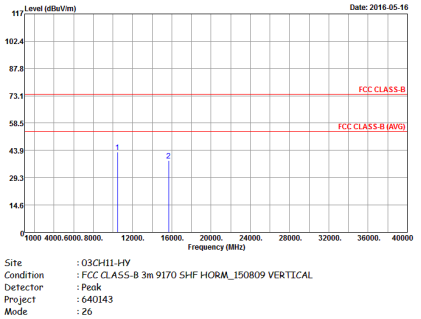
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

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

Band 1 5150~5250MHz

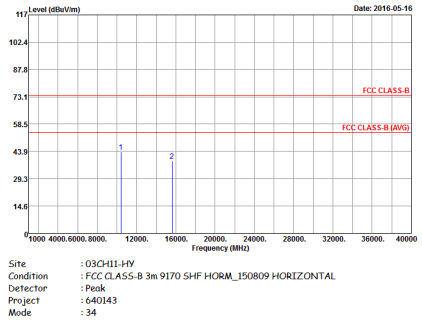
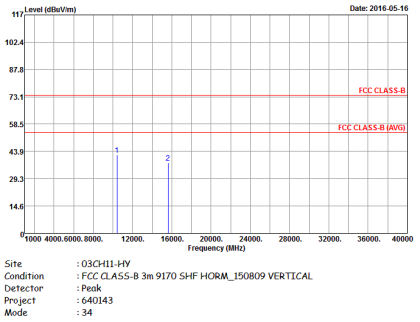
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 640143 Mode : 25	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 640143 Mode : 25

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

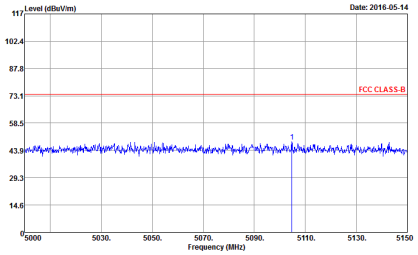
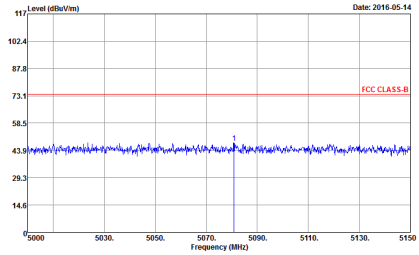
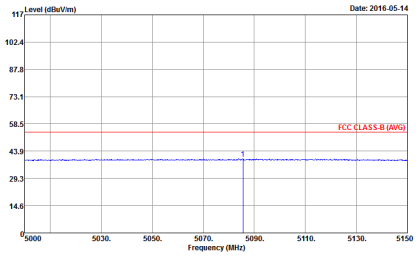
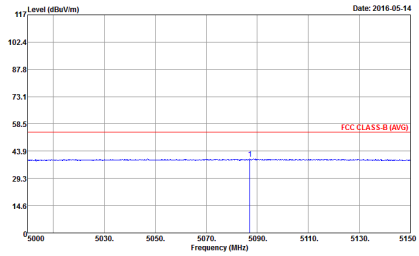
Band 1 5150~5250MHz

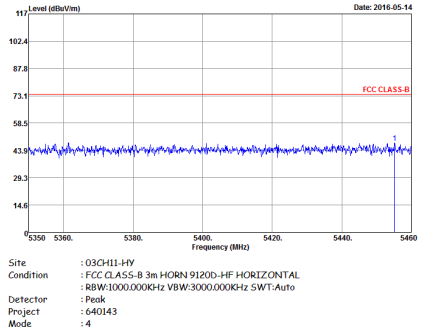
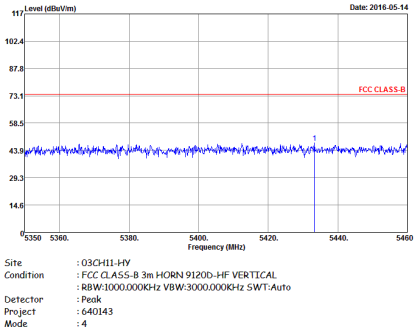
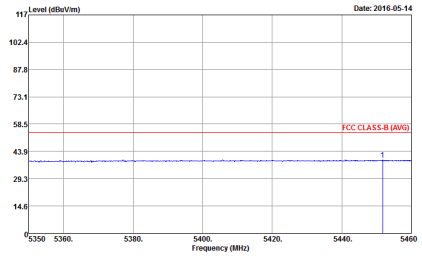
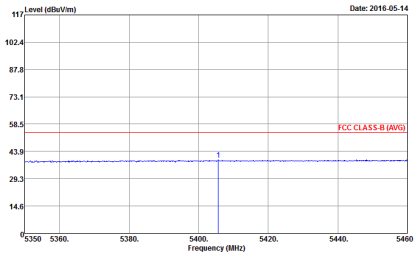
WIFI 802.11ac VHT80 (Harmonic @ 3m)

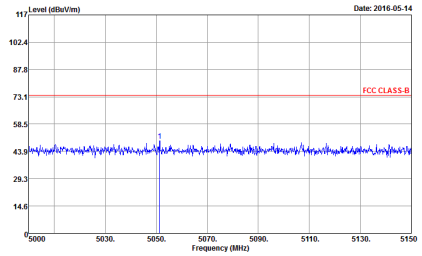
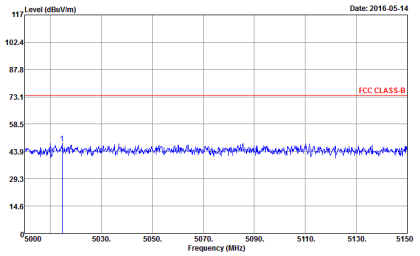
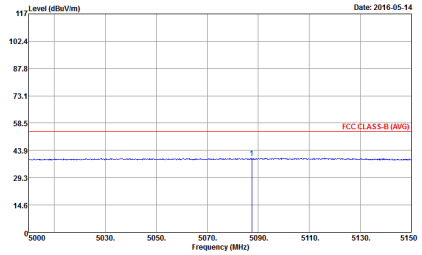
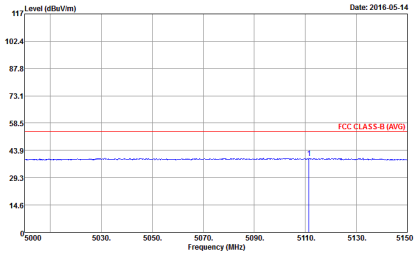
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

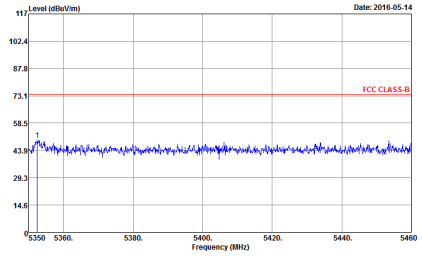
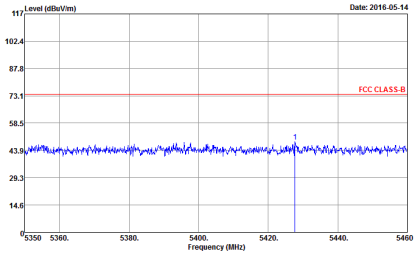
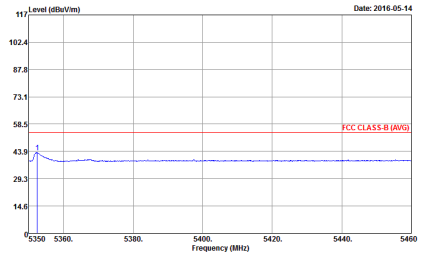
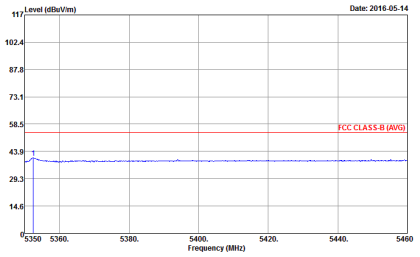
Band 2 - 5250~5350MHz

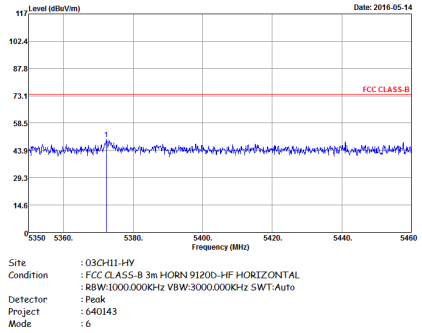
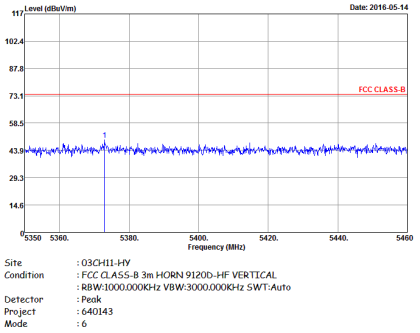
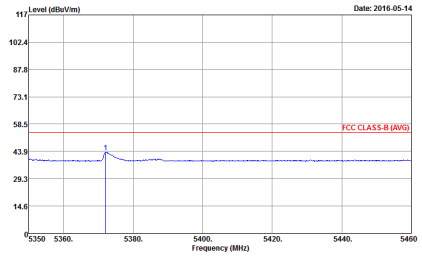
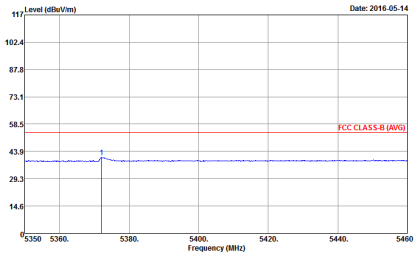
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4

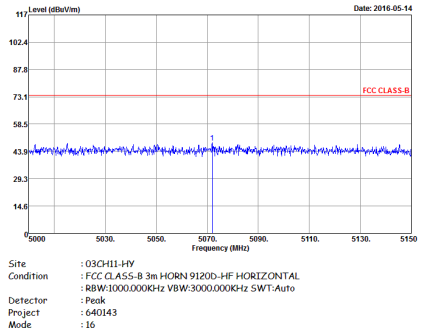
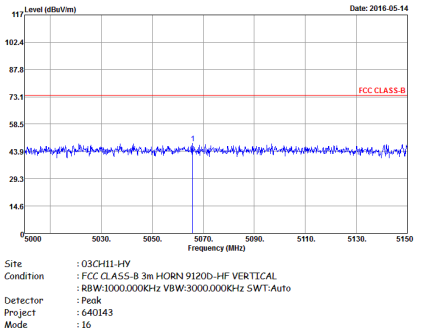
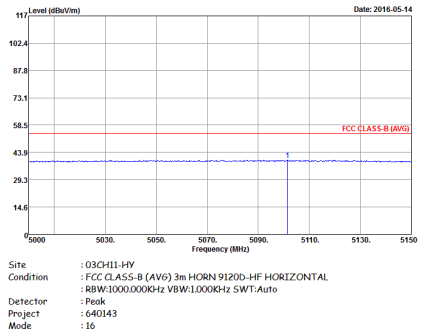
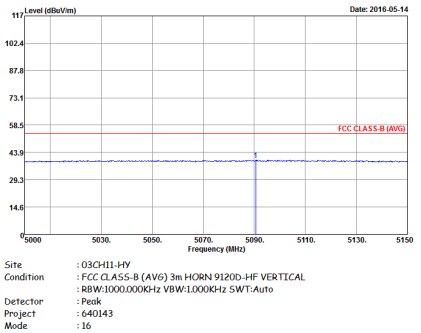
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 4

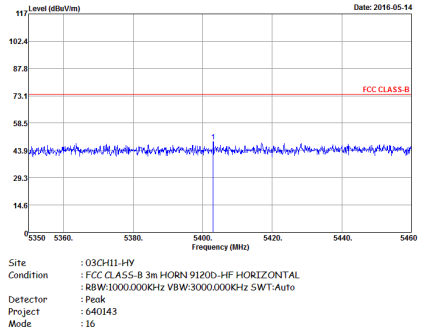
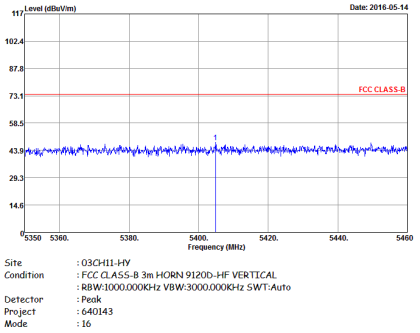
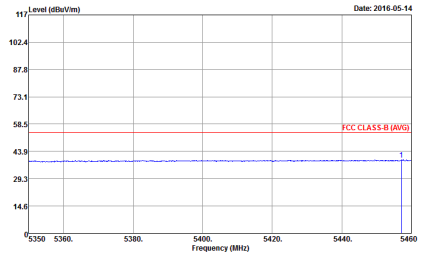
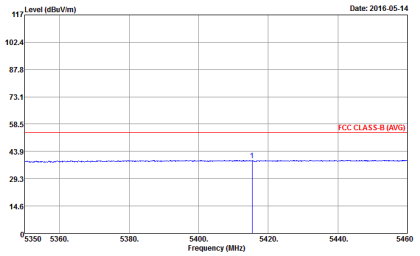
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5

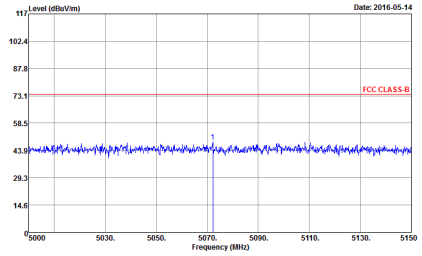
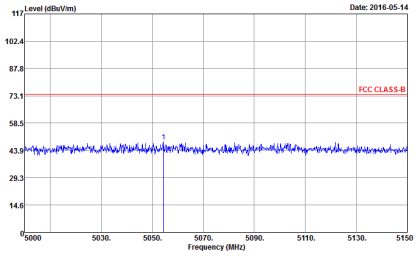
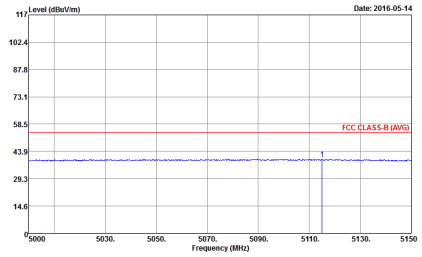
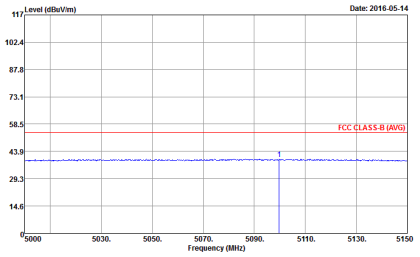
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 5

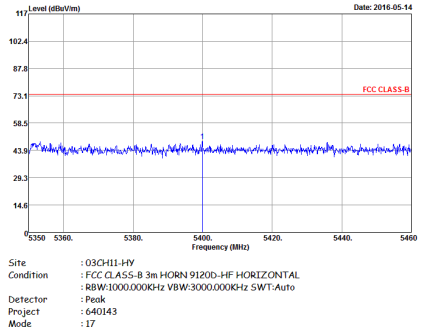
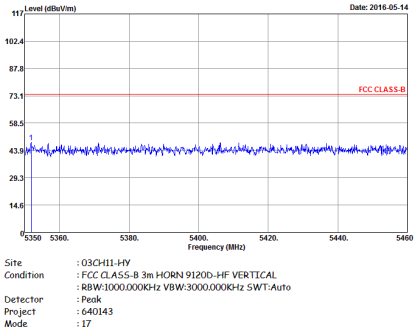
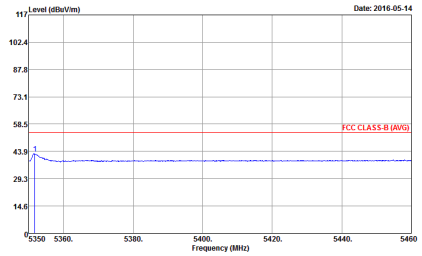
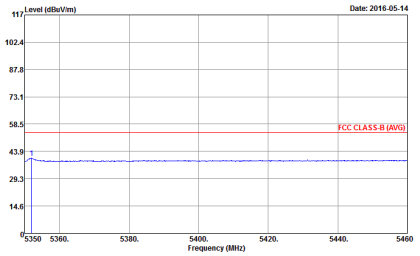
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 6	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 6
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 6	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 6

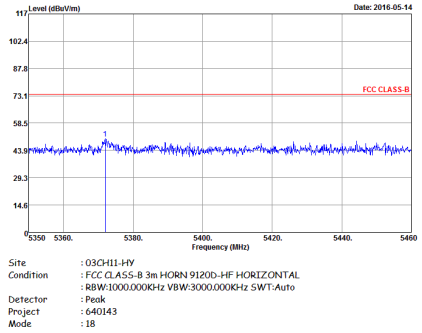
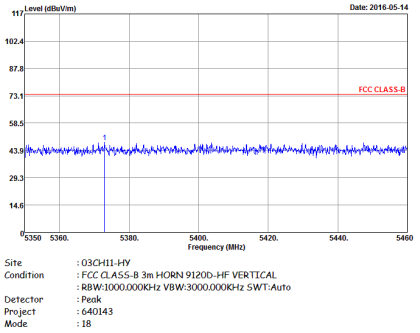
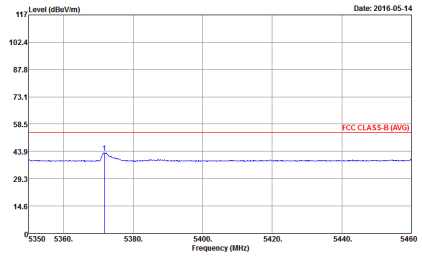
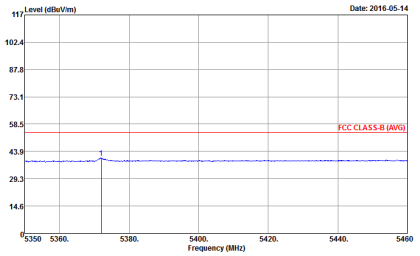
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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

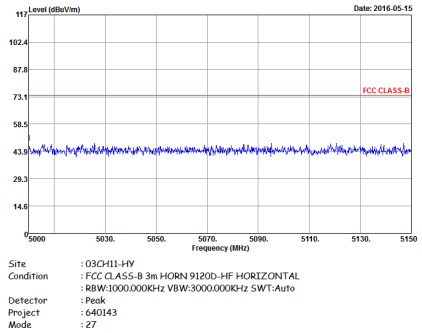
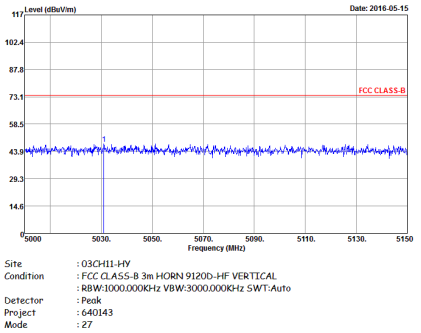
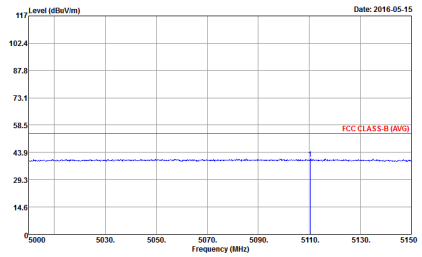
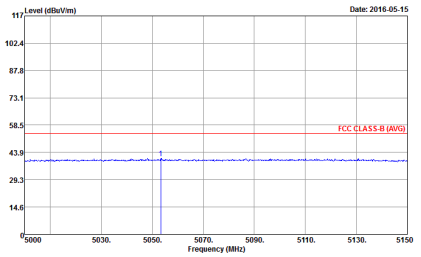
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 16	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 16
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 16	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 16

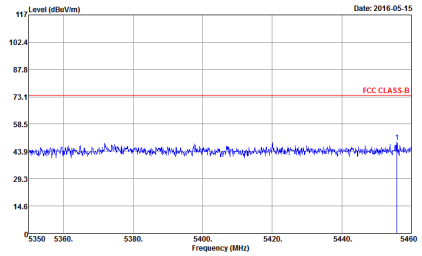
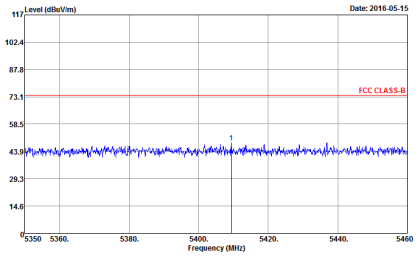
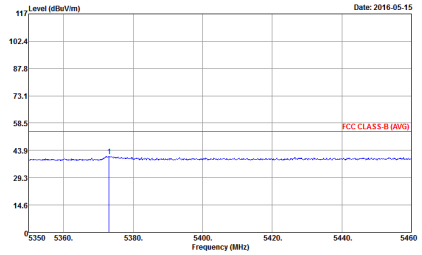
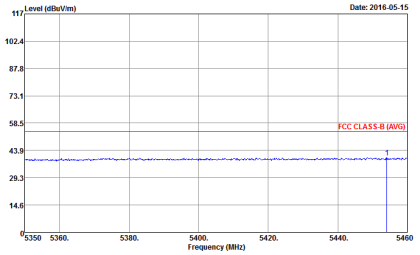
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17

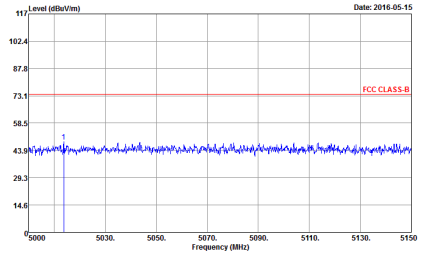
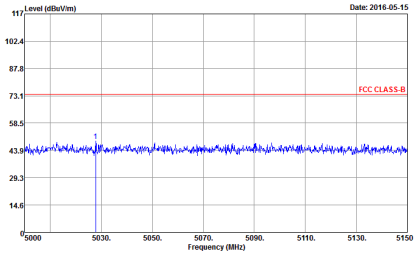
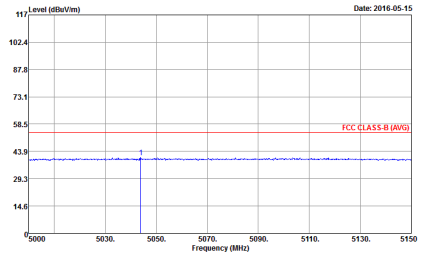
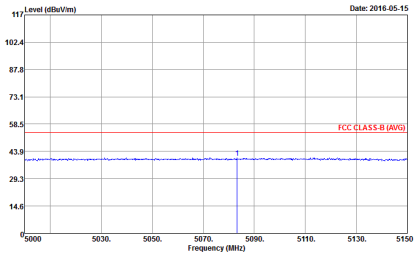
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 17

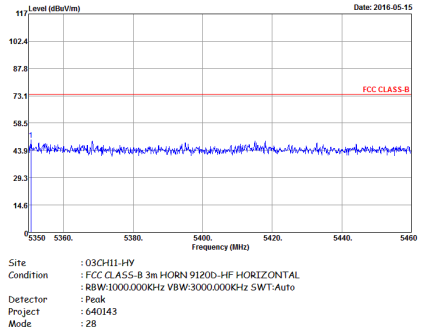
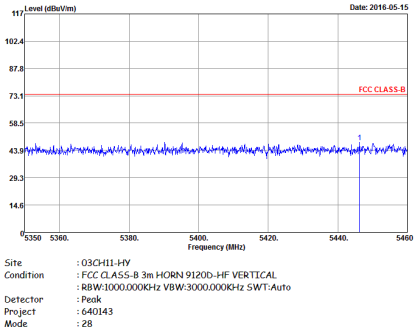
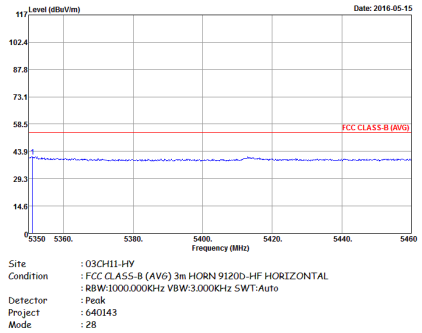
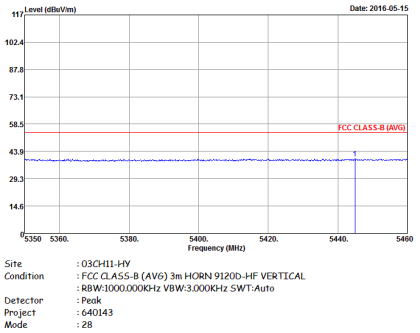
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 18	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 18
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 18	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 18

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

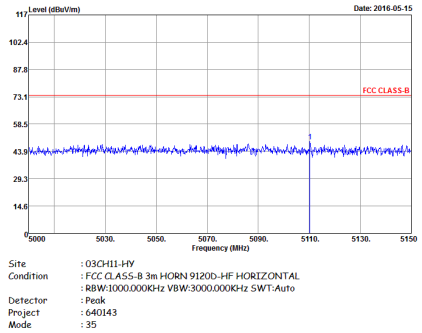
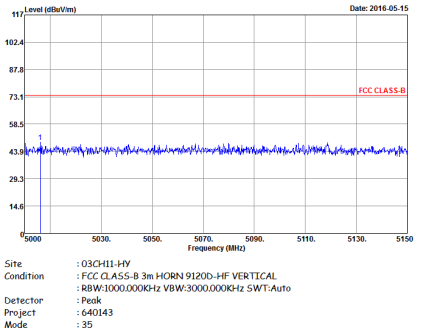
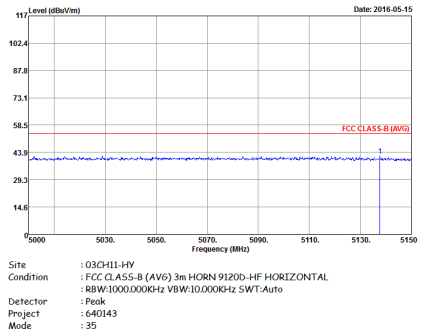
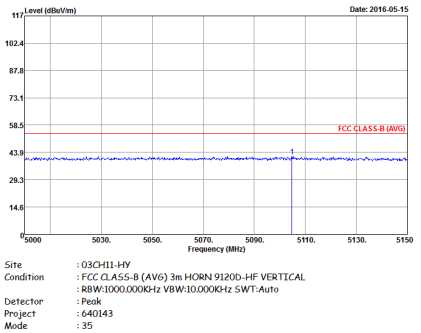
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27

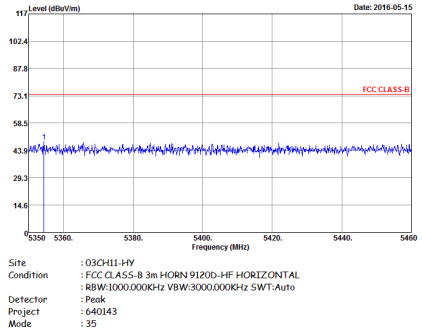
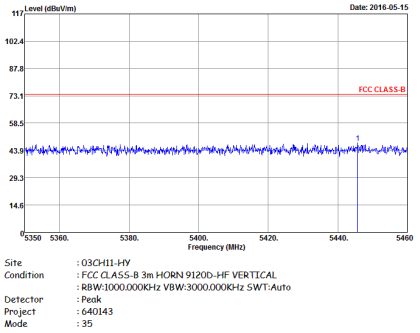
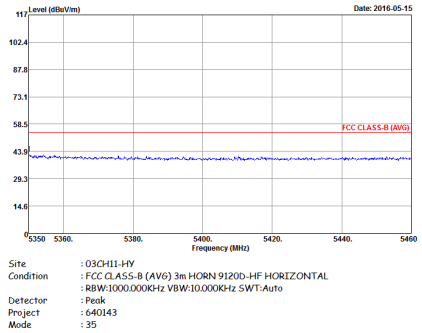
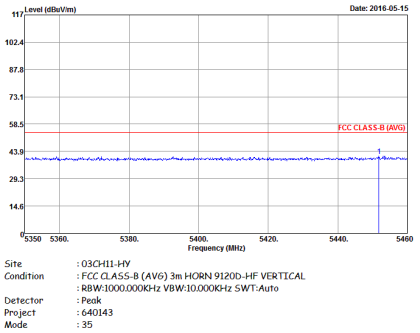
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 27

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 28

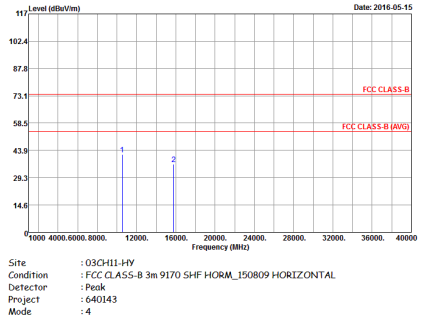
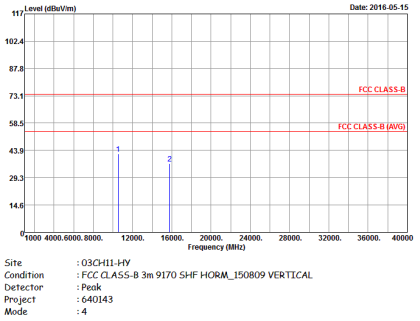
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

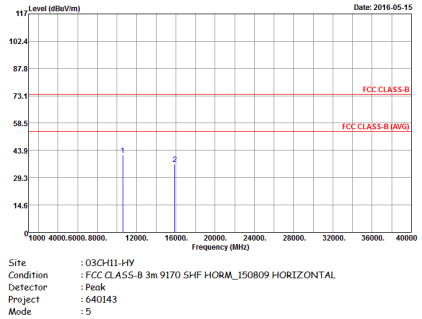
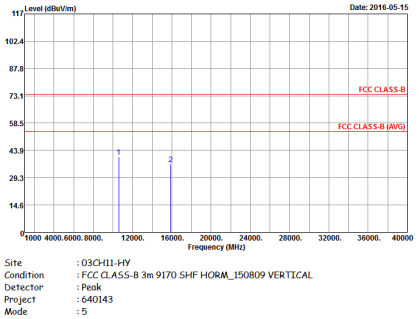
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

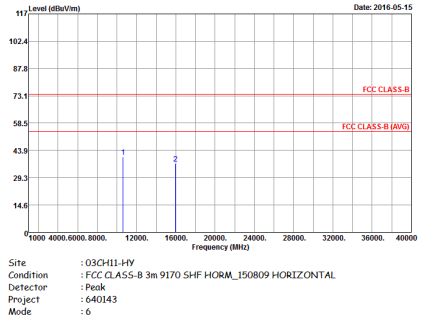
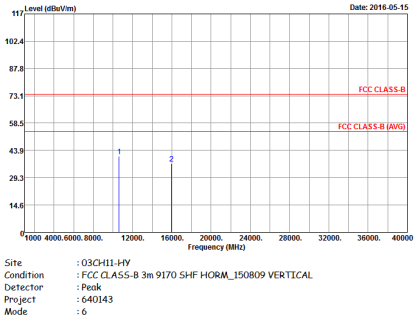
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 35	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 35
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 35	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 35

Band 2 - 5250~5350MHz

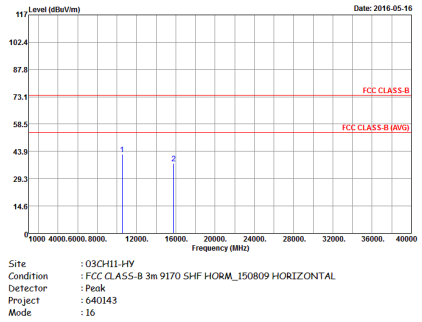
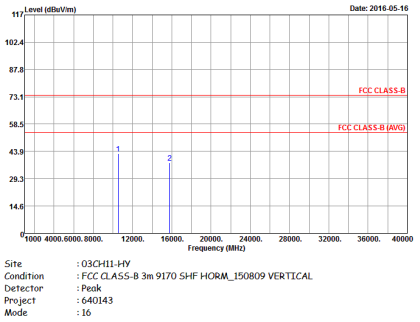
WIFI 802.11a (Harmonic @ 3m)

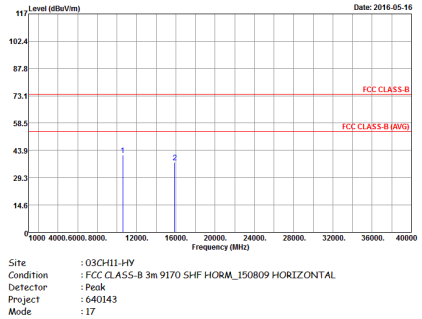
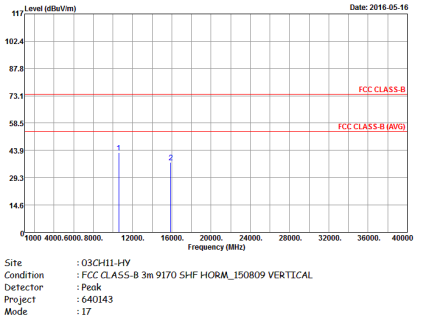
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

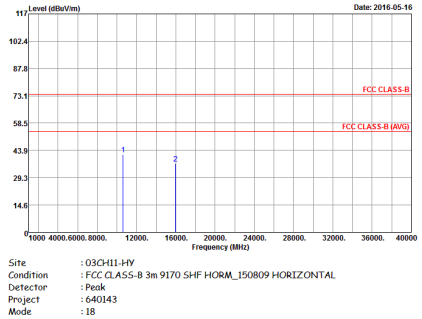
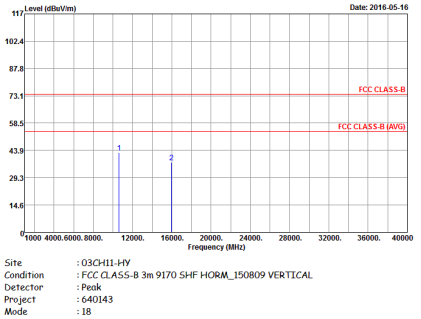
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 640143 Mode : 5	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 640143 Mode : 5

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

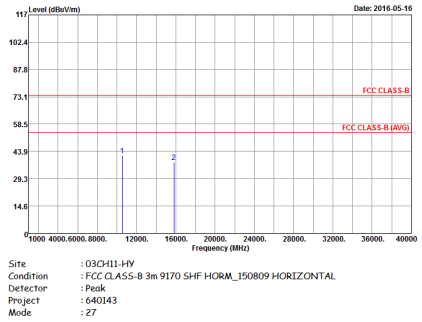
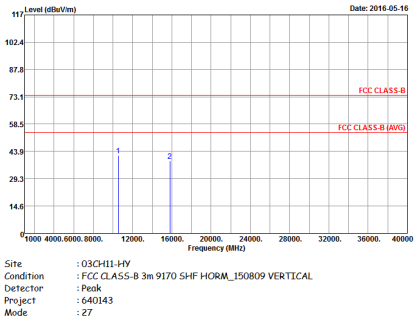
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

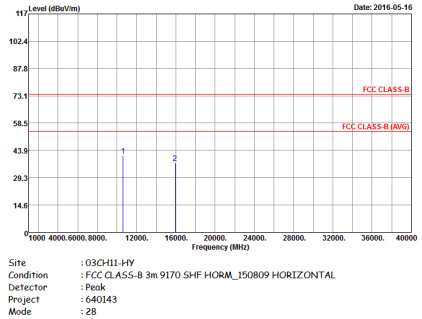
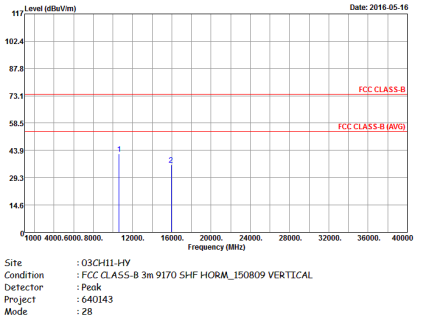
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

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

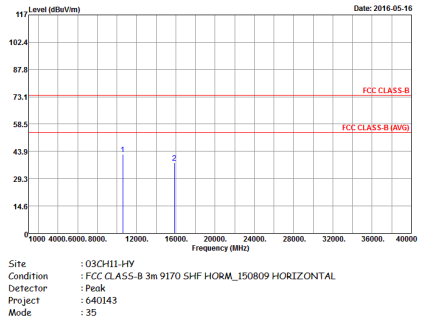
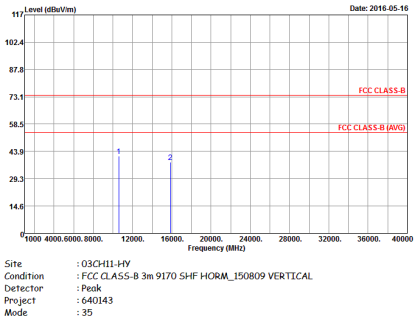
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

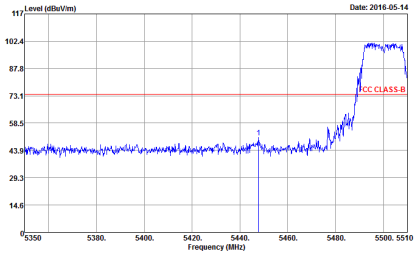
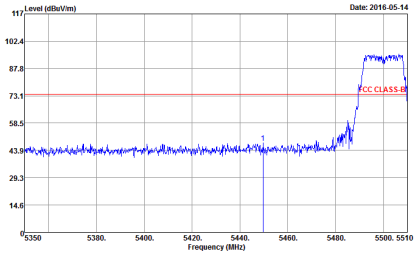
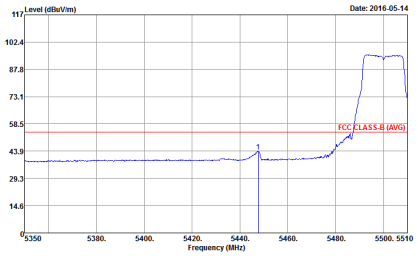
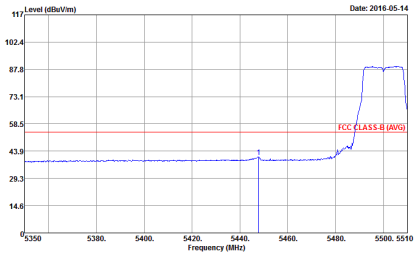
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

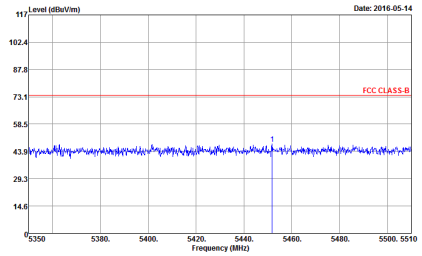
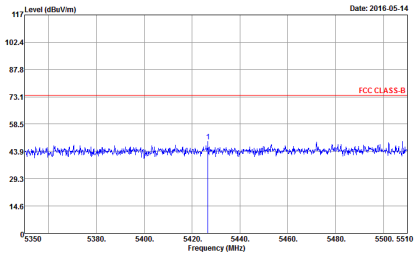
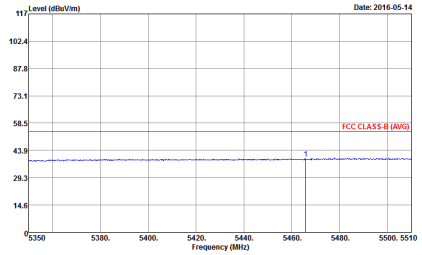
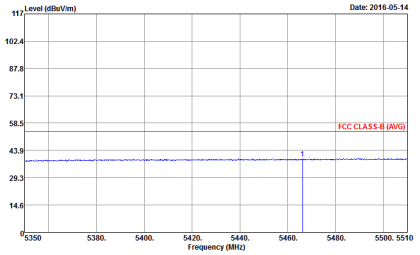
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

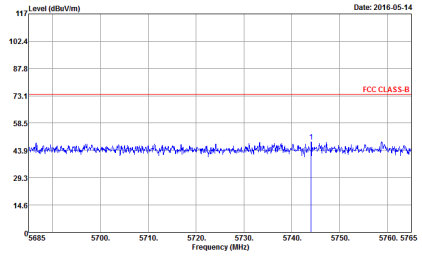
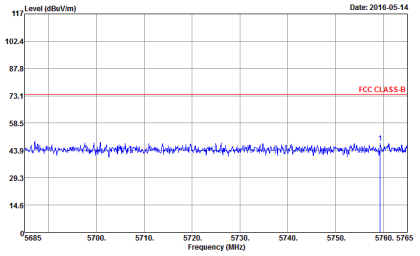
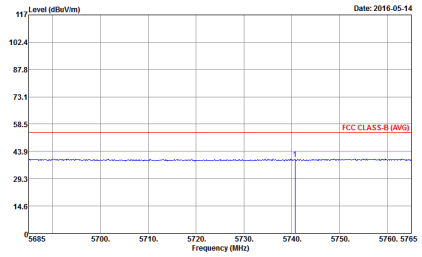
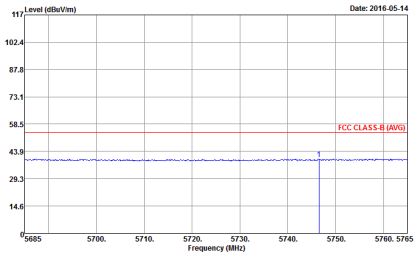
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak Avg.		

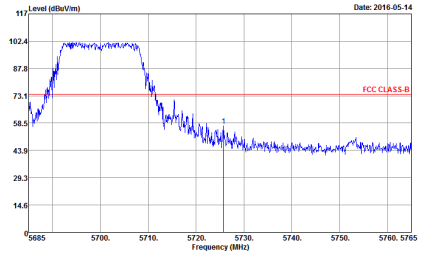
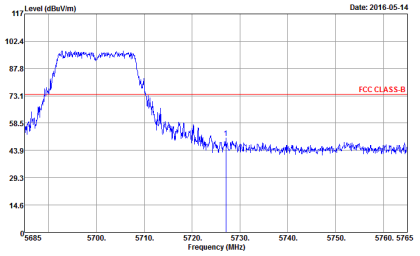
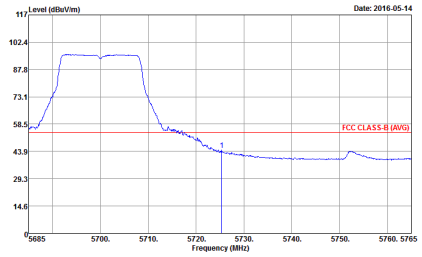
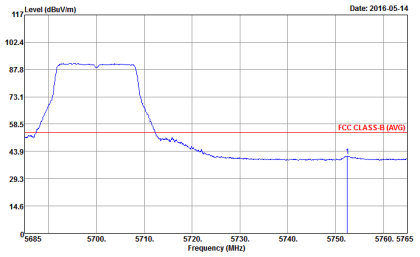
Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

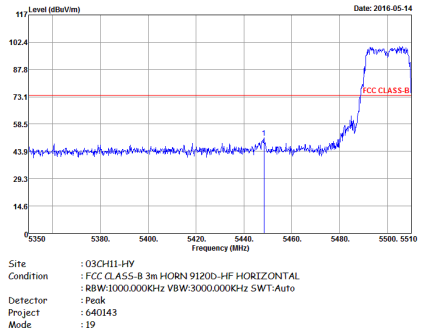
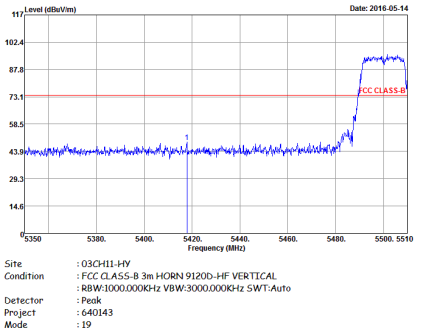
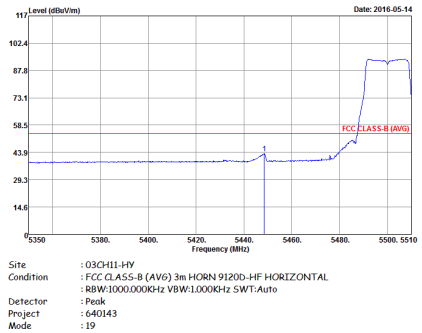
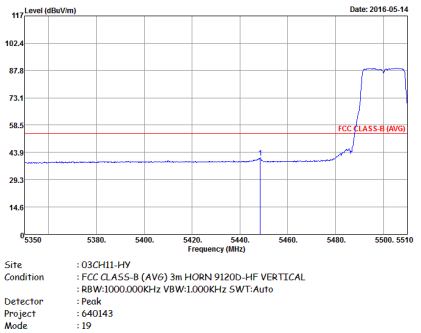
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 7	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 7
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 7	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 7

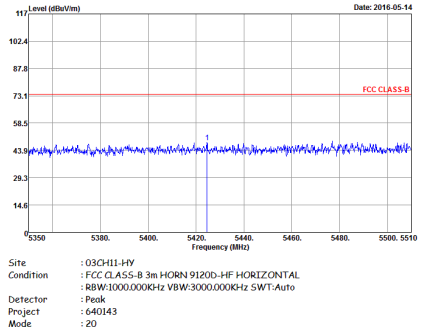
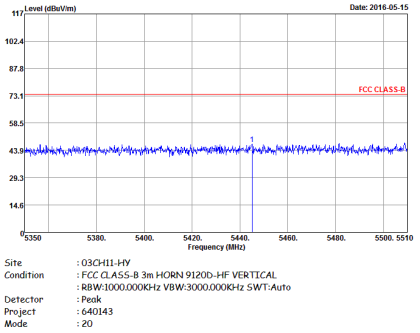
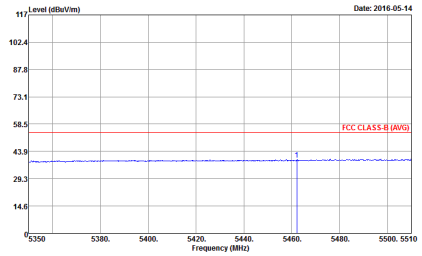
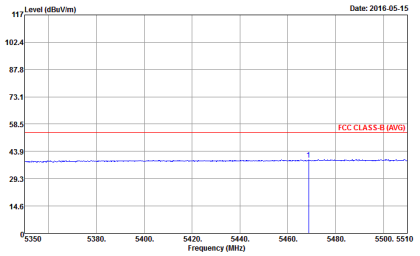
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8

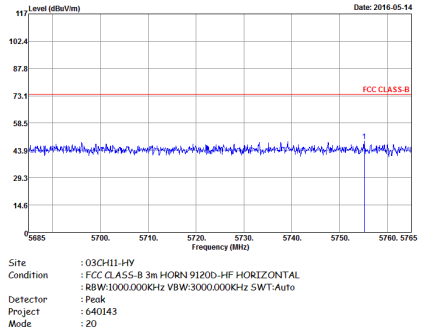
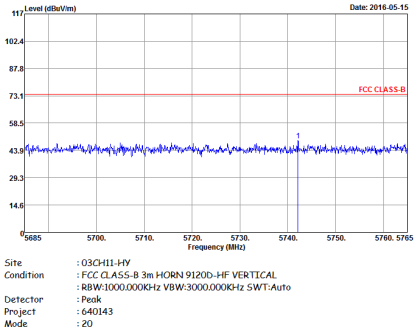
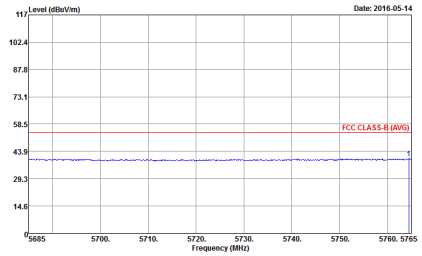
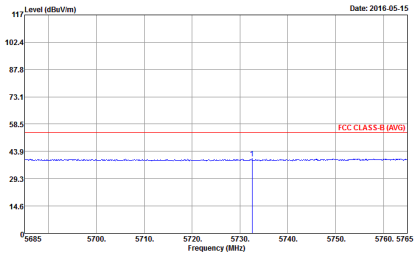
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 8

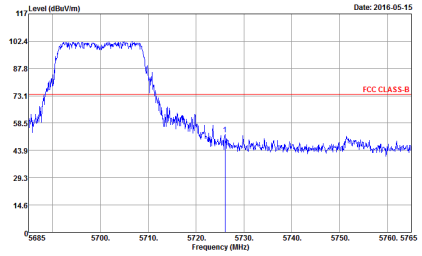
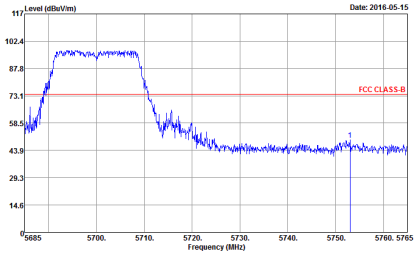
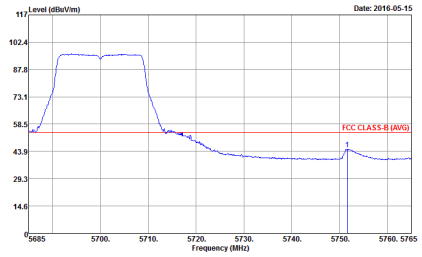
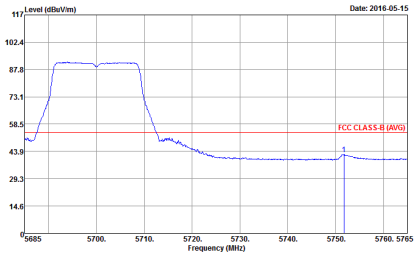
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 9	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 9
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 9	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 9

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

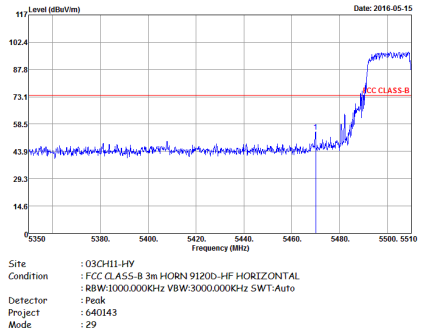
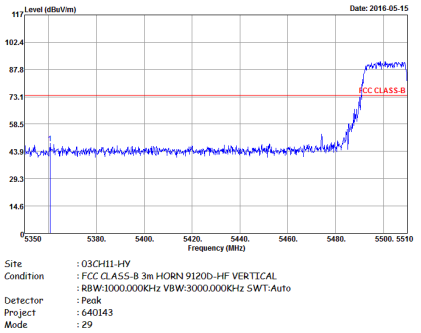
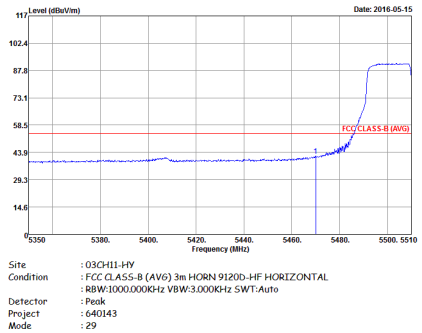
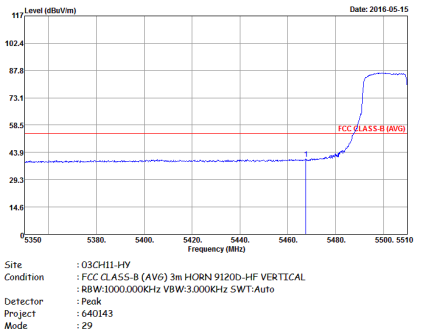
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak		
Avg.		

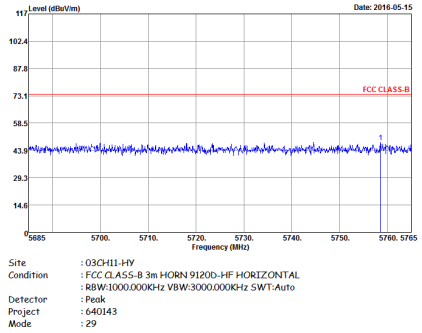
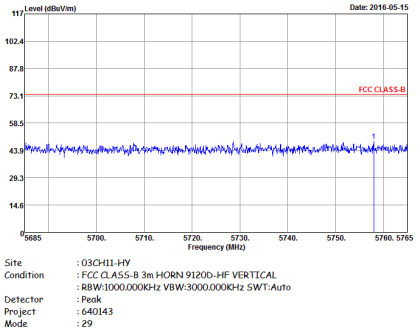
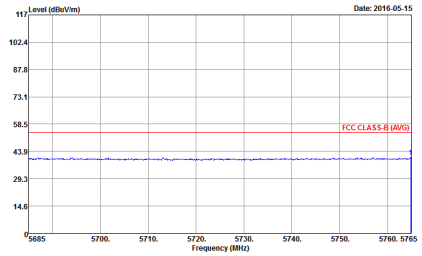
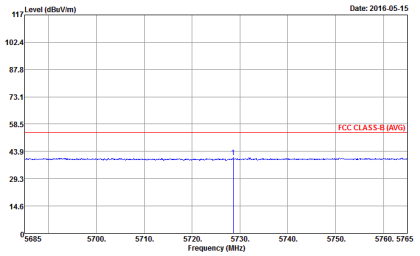
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20

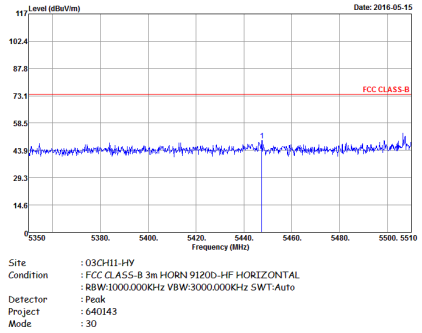
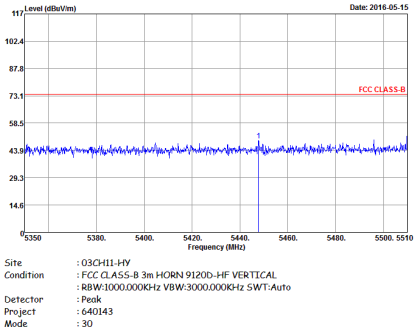
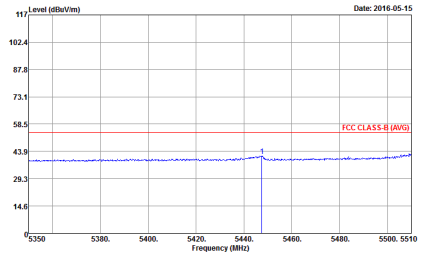
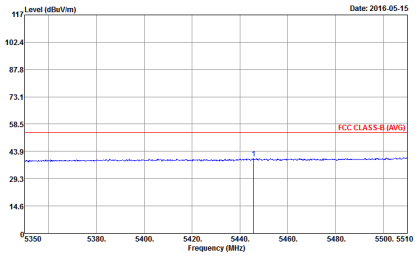
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 20

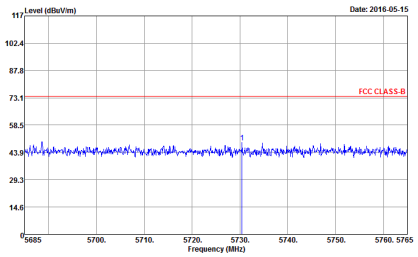
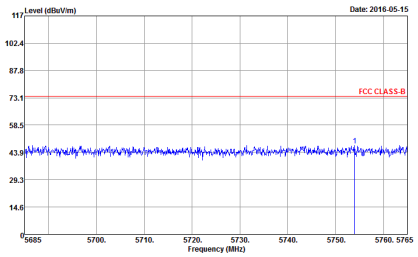
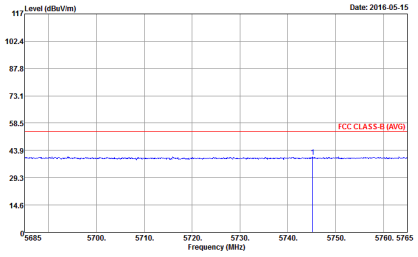
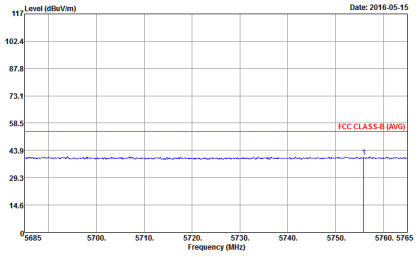
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 21	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 21
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 21	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 21

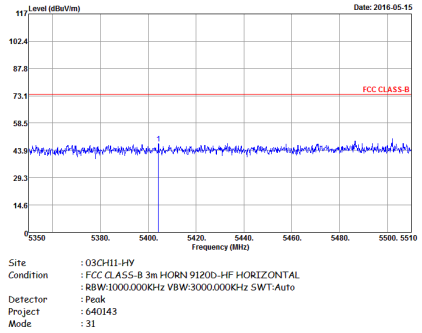
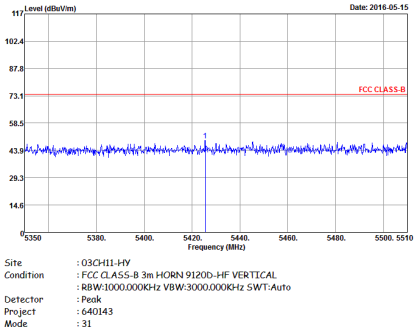
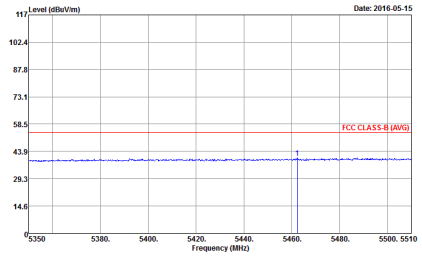
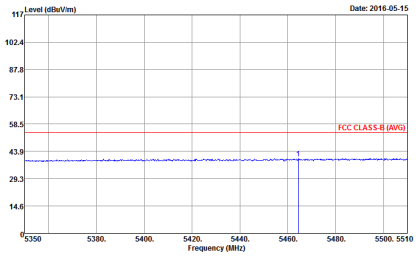
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

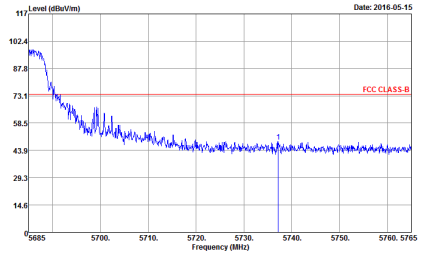
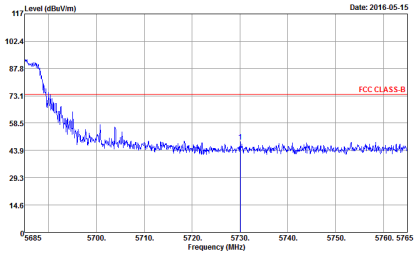
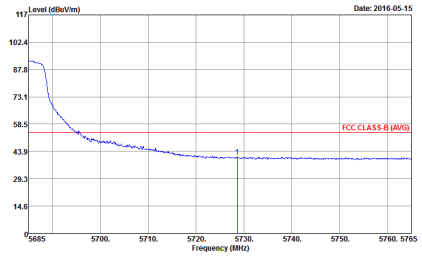
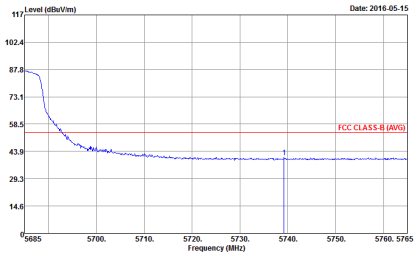
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Vertical
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 29	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 29
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 29	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 29

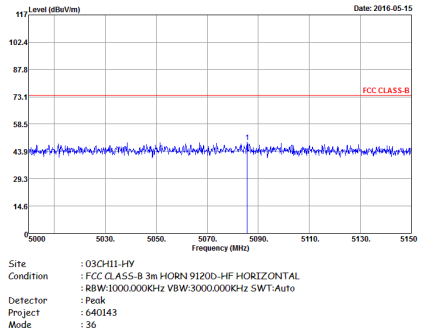
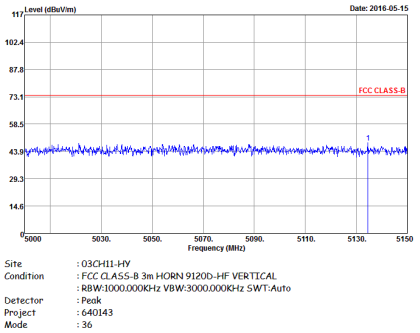
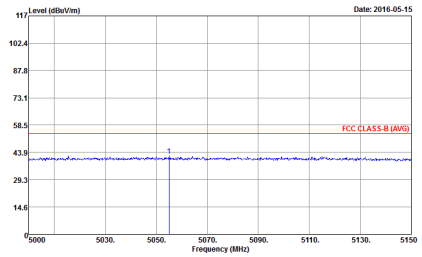
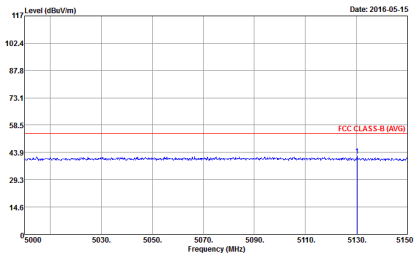
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30

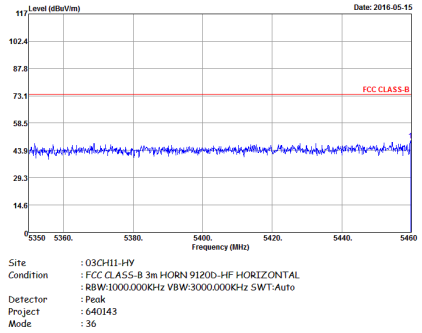
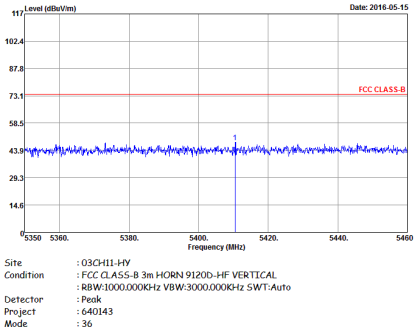
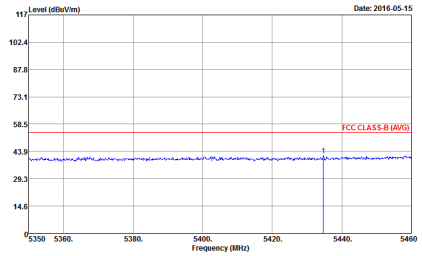
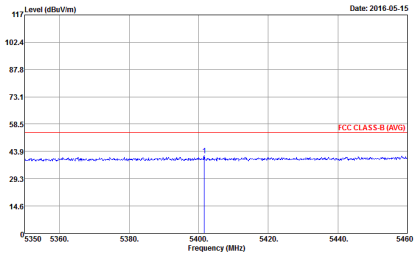
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30	 Site : 03CH11-HY Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 30

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 31

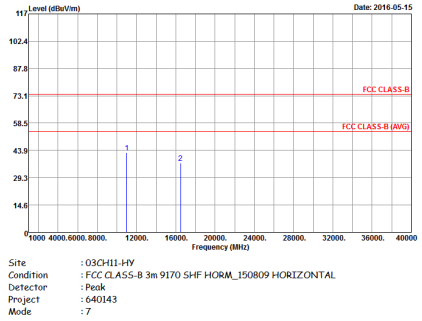
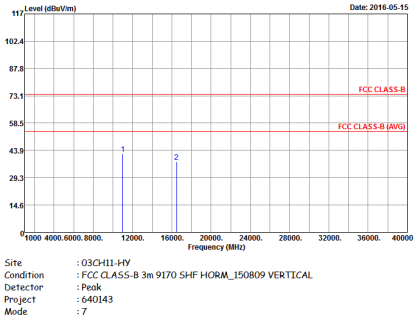
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

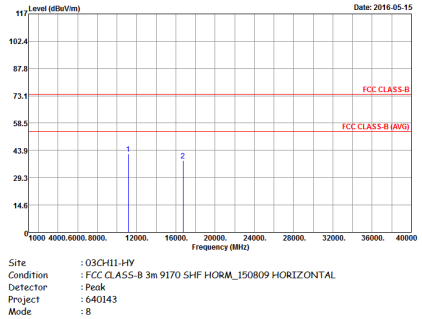
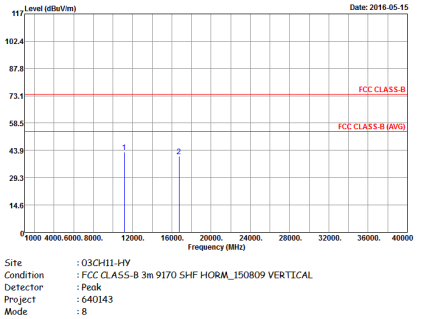
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36

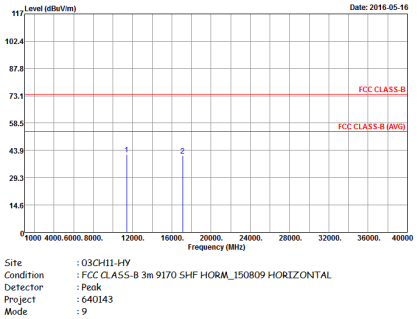
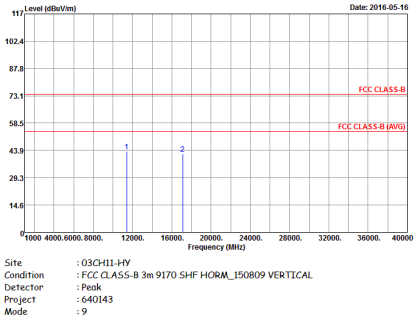
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 640143 Mode : 36

Band 3 - 5470~5725MHz

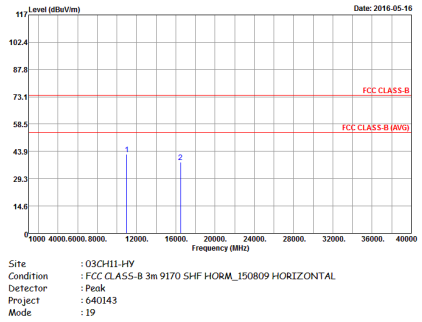
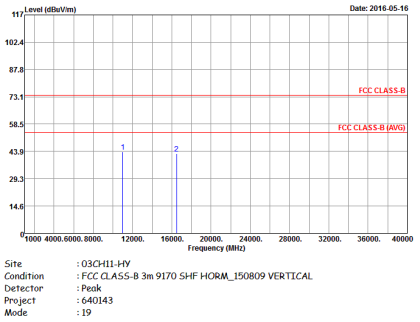
WIFI 802.11a (Harmonic @ 3m)

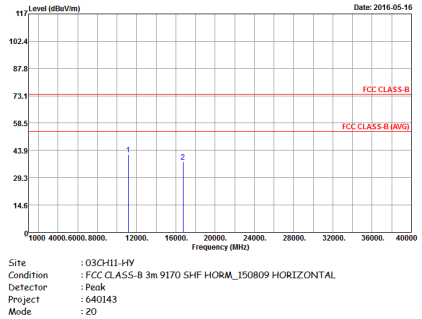
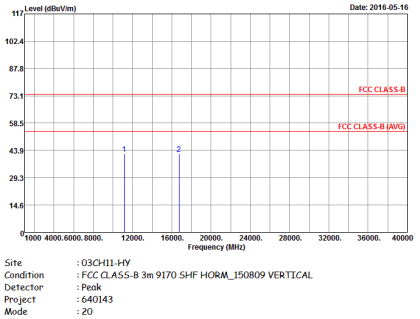
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

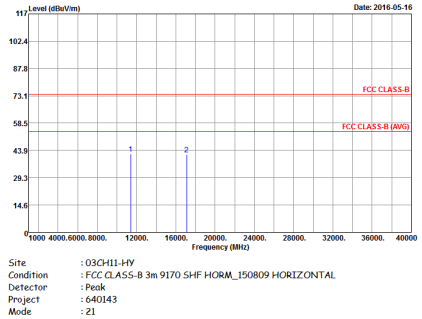
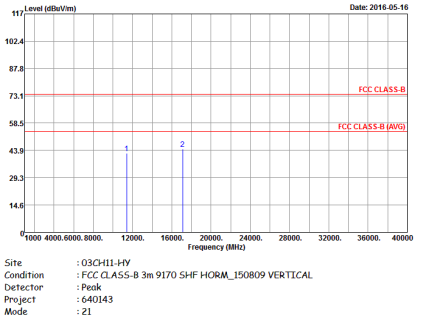
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

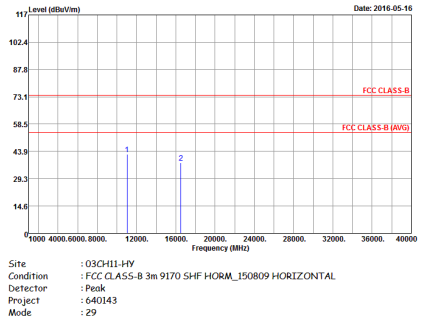
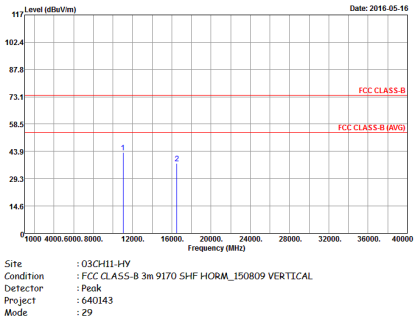
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

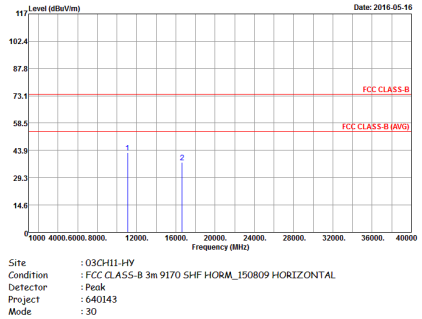
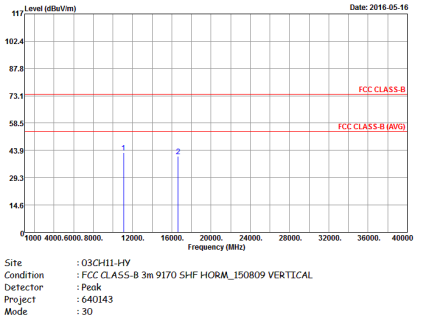
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 640143 Mode : 19	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 640143 Mode : 19

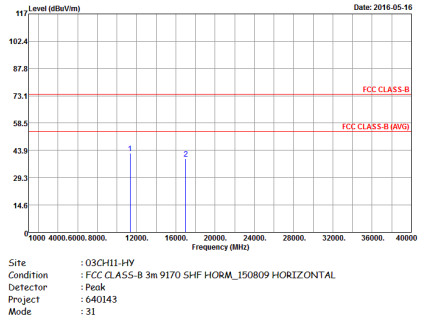
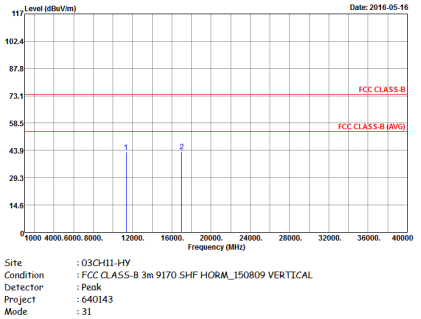
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 640143 Mode : 20	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 640143 Mode : 20

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

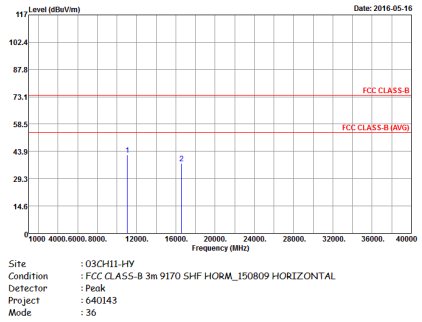
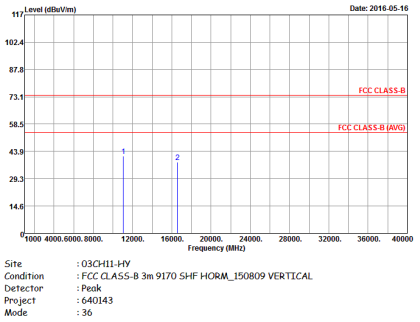
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 640143 Mode : 29	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 640143 Mode : 29

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

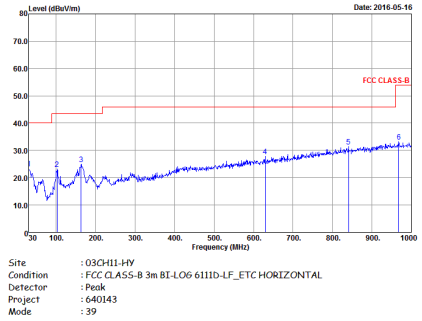
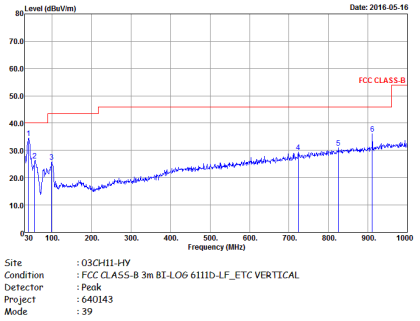
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

Emission below 1GHz

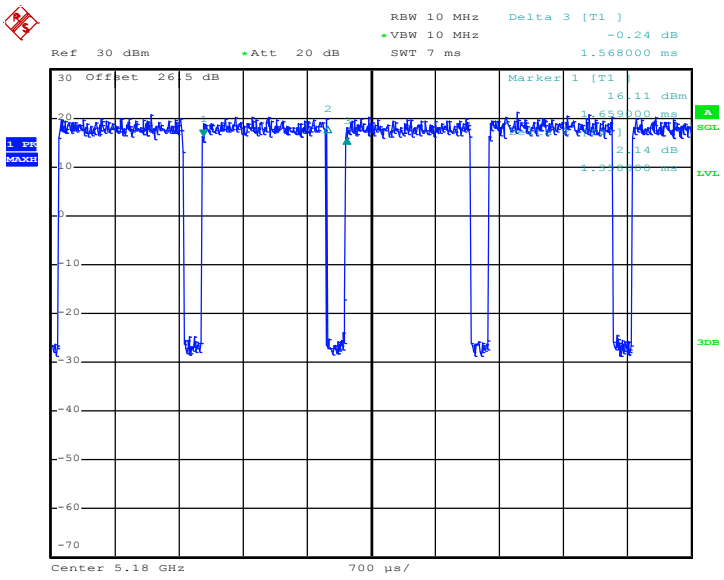
5GHz WIFI 802.11n HT20 (LF)

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

Appendix D. Duty Cycle Plots

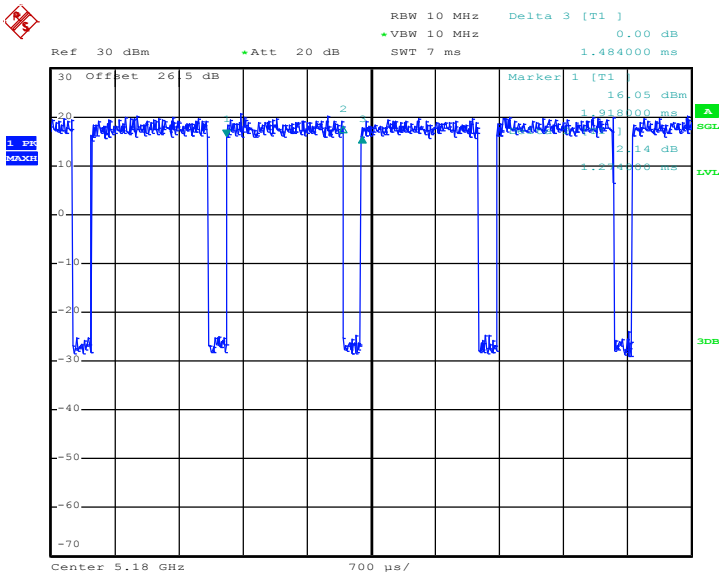
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	86.61	1358	0.736377025	1kHz
5GHz 802.11n HT20	85.85	1274	0.784929356	1kHz
5GHz 802.11n HT40	75.90	630	1.587301587	3kHz
5GHz 802.11ac VHT20	82.35	980	1.020408163	3kHz
5GHz 802.11ac VHT40	70.12	488	2.049180328	3kHz
5GHz 802.11ac VHT80	55.36	248	4.032258065	10kHz

802.11a



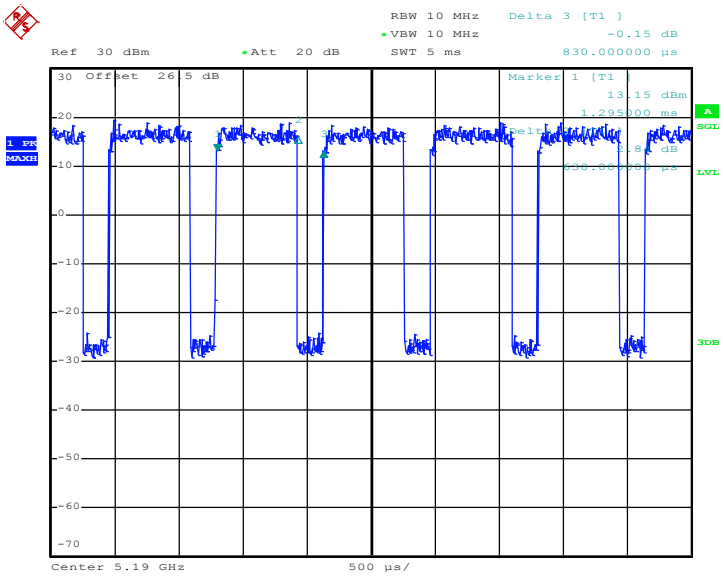
Date: 2.MAY.2016 13:51:45

802.11n HT20



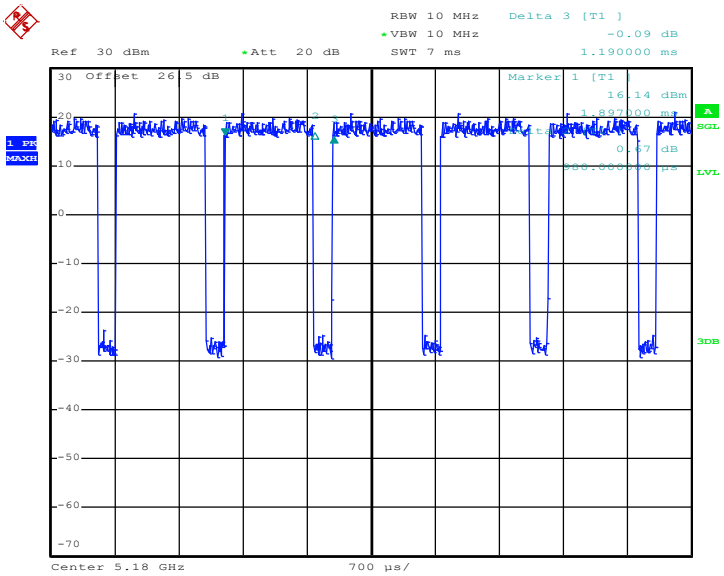
Date: 2.MAY.2016 13:53:09

802.11n HT40



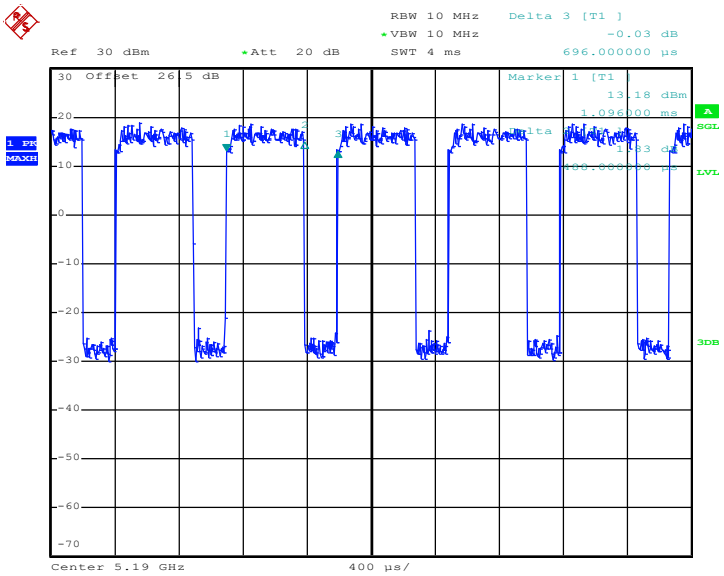
Date: 2.MAY.2016 13:54:01

802.11ac VHT20



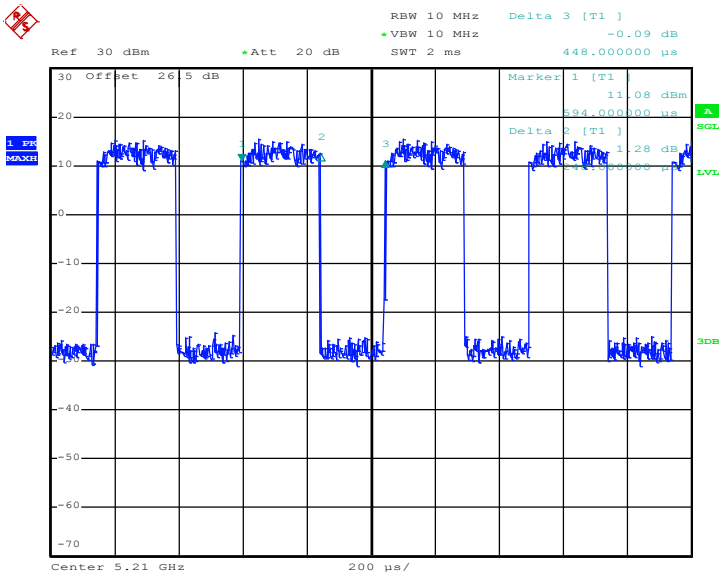
Date: 2.MAY.2016 13:55:36

802.11ac VHT40



Date: 2.MAY.2016 13:58:29

802.11ac VHT80



Date: 2.MAY.2016 13:59:57