

FCC RF Test Report

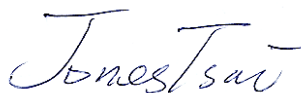
APPLICANT : Askey Computer Corp.
EQUIPMENT : Multi - Sensor Camera
BRAND NAME : Askey
MODEL NAME : QB-MSC-FXL
FCC ID : H8N-QBMSCFXL
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Dec. 11, 2015 and testing was completed on Jan. 26, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : H8N-QBMSCFXL

Page Number : 1 of 36

Report Issued Date : Mar. 01, 2016

Report Version : Rev. 01

Report Template No.: BU5-FR15EWLB4 AC MA Version 1.2



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	7
1.6 Testing Location	7
1.7 Applicable Standards	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Carrier Frequency and Channel	9
2.2 Pre-Scanned RF Power	10
2.3 Test Mode	13
2.4 Connection Diagram of Test System	14
2.5 Support Unit used in test configuration and system	15
2.6 EUT Operation Test Setup	15
2.7 Measurement Results Explanation Example	15
3 TEST RESULT	16
3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement	16
3.2 Maximum Conducted Output Power Measurement	19
3.3 Power Spectral Density Measurement	20
3.4 Unwanted Emissions Measurement	22
3.5 AC Conducted Emission Measurement	28
3.6 Frequency Stability Measurement	32
3.7 Automatically Discontinue Transmission	33
3.8 Antenna Requirements	34
4 LIST OF MEASURING EQUIPMENT	35
5 UNCERTAINTY OF EVALUATION	36
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. RADIATED TEST RESULTS	
APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX D. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5D1117C	Rev. 01	Initial issue of report	Mar. 01, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB, and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm/MHz & 15.209(a)	Pass	Under limit 1.05 dB at 6220.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 22.10 dB at 0.334 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

Askey Computer Corp.

10F, No. 119, Jiankang RD., Zhonghe Dist., New Taipei City 23585, Taiwan, R.O.C.

1.2 Manufacturer

Askey Technology (Jiangsu) Corporation

No. 1388, JiaoTong Road

Wujiang Economic-Technological Development Area

Wujiang, 215200

China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Multi - Sensor Camera
Brand Name	Askey
Model Name	QB-MSC-FXL
FCC ID	H8N-QBMSCFXL
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80
HW Version	REV04
SW Version	0.1.o.111
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification															
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz														
Maximum Output Power	<5745 MHz ~ 5825 MHz> <Ant. 1> 802.11a : 17.95 dBm / 0.0624 W <Ant. 2> 802.11a : 17.70 dBm / 0.0589 W SISO <Ant. 1> 802.11n HT20 : 17.47 dBm / 0.0558 W 802.11n HT40 : 17.15 dBm / 0.0519 W 802.11ac VHT20: 17.32 dBm / 0.0540 W 802.11ac VHT40: 17.31 dBm / 0.0538 W 802.11ac VHT80: 14.27 dBm / 0.0267 W SISO <Ant. 2> 802.11n HT20 : 17.36 dBm / 0.0545 W 802.11n HT40 : 17.13 dBm / 0.0516 W 802.11ac VHT20: 17.15 dBm / 0.0519 W 802.11ac VHT40: 16.90 dBm / 0.0490 W 802.11ac VHT80: 13.93 dBm / 0.0247 W MIMO <Ant. 1 + 2> 802.11n HT20 : 17.50 dBm / 0.0562 W 802.11n HT40 : 17.42 dBm / 0.0552 W 802.11ac VHT20: 17.49 dBm / 0.0561 W 802.11ac VHT40: 17.49 dBm / 0.0561 W 802.11ac VHT80: 15.10 dBm / 0.0324 W														
99% Occupied Bandwidth	802.11a : 18.40 MHz 802.11n HT20 : 18.75 MHz 802.11n HT40 : 36.90 MHz 802.11ac VHT20 : 18.80 MHz 802.11ac VHT40 : 37.20 MHz 802.11ac VHT80 : 75.24 MHz														
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)														
Antenna Type	Main Antenna : PCB Antenna Aux. Antenna : PCB Antenna														
Antenna Gain	Main Antenna : 4.70 dBi Aux. Antenna : 3.50 dBi														
Antenna Function Description	<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a</td><td>V</td><td>V</td></tr><tr><td>802.11 n/ac SISO</td><td>V</td><td>V</td></tr><tr><td>802.11 n/ac MIMO</td><td>V</td><td>V</td></tr></table>				Ant. 1	Ant. 2	802.11 a	V	V	802.11 n/ac SISO	V	V	802.11 n/ac MIMO	V	V
	Ant. 1	Ant. 2													
802.11 a	V	V													
802.11 n/ac SISO	V	V													
802.11 n/ac MIMO	V	V													

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	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 v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane for Ant. 1 and Ant. 1+2; X Plane for Ant. 2) 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 and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151	5755	159	5795
	153	5765	161	5805
	155	5775	165	5825

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.

<Ant. 1>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	17.95	17.90	16.45	16.43	15.36	15.40	15.35	15.31

<Ant. 2>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	17.70	17.69	16.16	16.22	15.25	15.21	15.11	15.20

SISO <Ant. 1>

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	17.47	17.20	16.49	16.50	14.98	14.89	14.99	14.86

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	17.15	17.13	15.55	15.76	14.00	14.27	14.31	14.56

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
Average Power (dBm)	17.32	17.28	16.18	16.23	14.66	14.62	14.76	14.89	14.47

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
Average Power (dBm)	17.31	17.25	16.03	15.92	14.66	14.35	14.79	14.50	14.16	14.25

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
Average Power (dBm)	14.27	14.20	13.29	13.09	12.29	11.75	11.62	12.09	11.48	11.06

**SISO <Ant. Port 2>**

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	17.36	17.27	16.35	16.38	14.72	14.96	14.83	14.71

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	17.13	16.62	16.01	15.94	14.31	14.43	13.97	14.33

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
Average Power (dBm)	17.15	17.05	16.49	16.53	14.74	14.95	14.60	14.86	14.08

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
Average Power (dBm)	16.90	16.85	16.33	16.45	15.18	14.87	14.96	14.94	14.51	14.33

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
Average Power (dBm)	13.93	13.80	12.94	12.76	12.04	11.67	11.43	11.54	11.30	11.06

**MIMO <Ant. 1+2>**

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS 8	MCS 9	MCS 10	MCS 11	MCS 12	MCS 13	MCS 14	MCS 15
Average Power (dBm)	17.50	17.49	16.48	16.15	14.80	14.75	14.76	14.76

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS 8	MCS 9	MCS 10	MCS 11	MCS 12	MCS 13	MCS 14	MCS 15
Average Power (dBm)	17.42	17.23	16.34	16.09	14.53	14.98	14.58	14.99

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
Average Power (dBm)	17.49	17.23	16.37	16.15	14.64	14.70	14.57	14.52	14.48

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
Average Power (dBm)	17.49	17.27	16.40	16.32	15.19	14.90	14.99	14.92	14.36	14.71

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
Average Power (dBm)	15.10	15.01	13.61	13.78	12.61	12.09	12.19	12.38	11.90	11.97

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

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.

Single Antenna

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

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

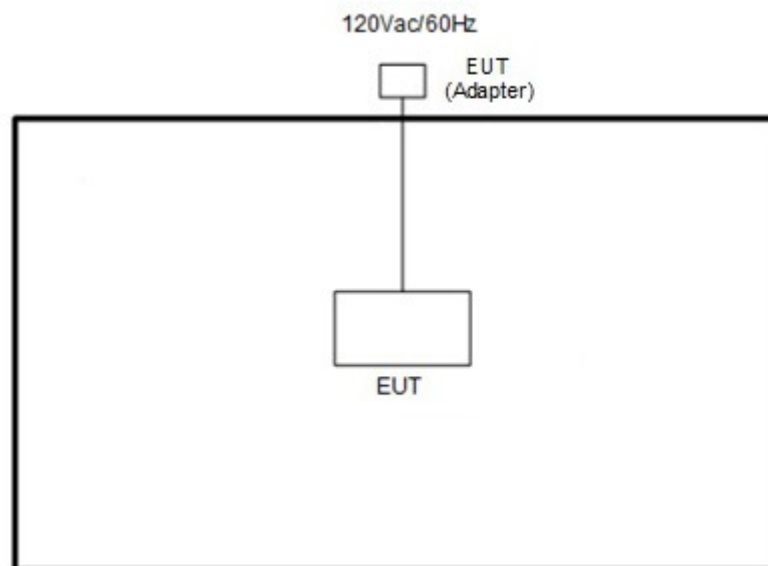
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Adapter
------------------------------	-------------------------------------

Ch. #		Band IV : 5725-5850 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

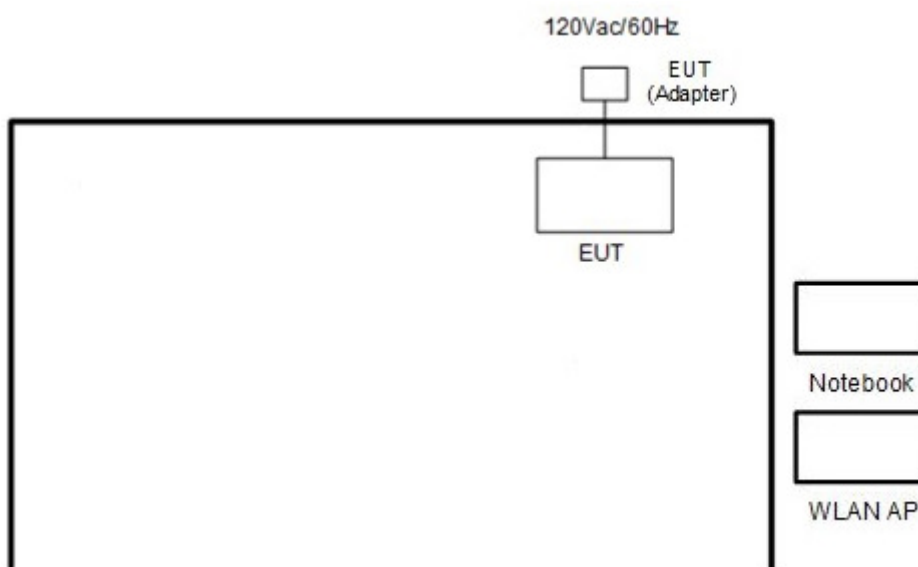
Ch. #		Band IV : 5725-5850 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

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.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “putty.exe” installed in the notebook to make 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.

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

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

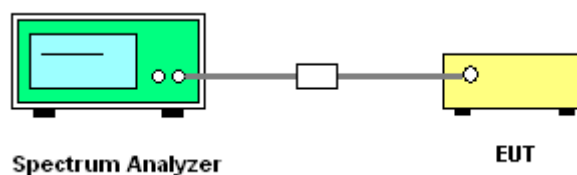
3.1.2 Measuring Instruments

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 v01r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

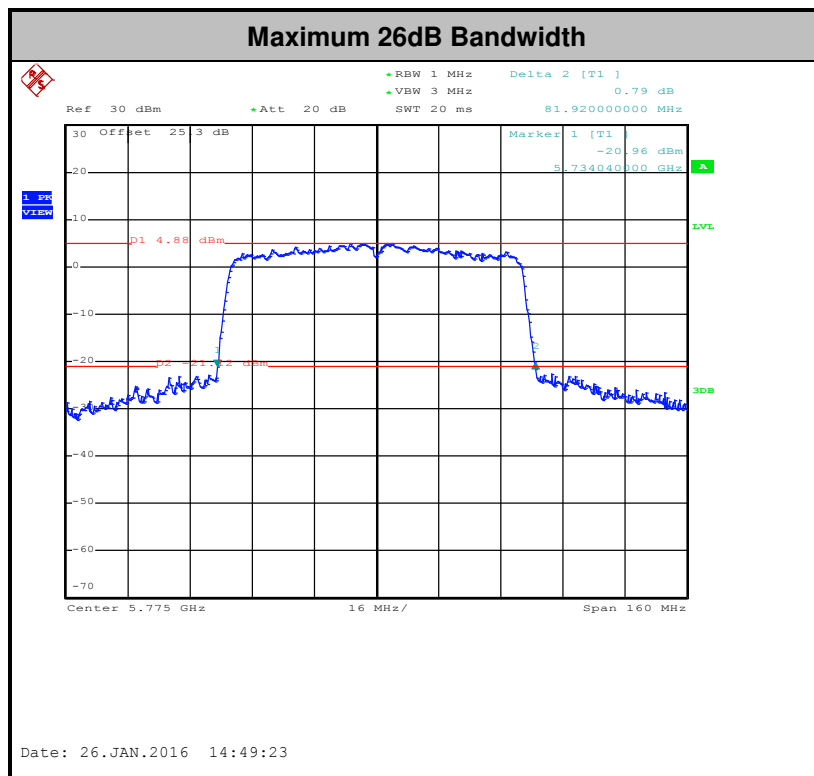
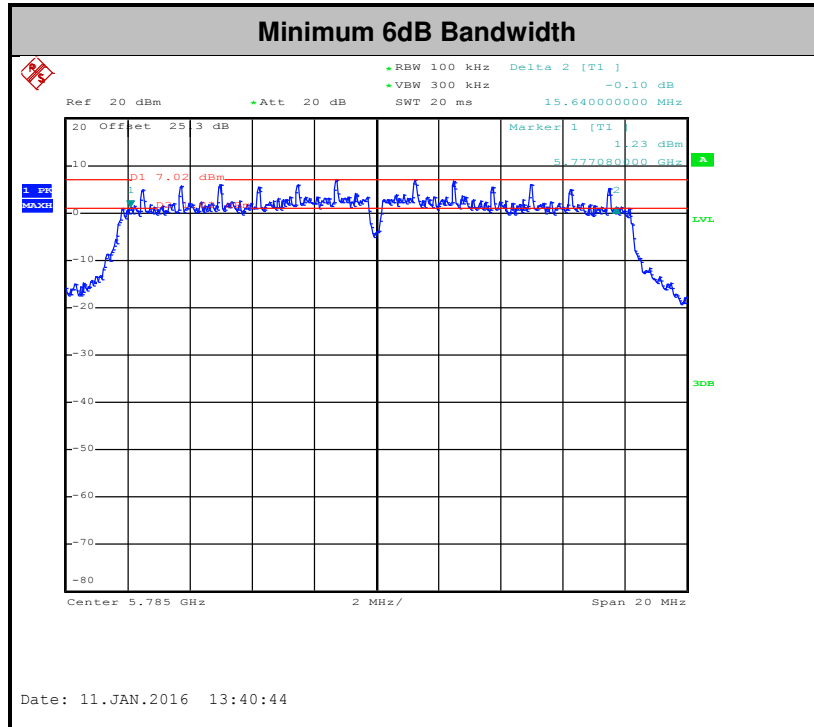
3.1.4 Test Setup

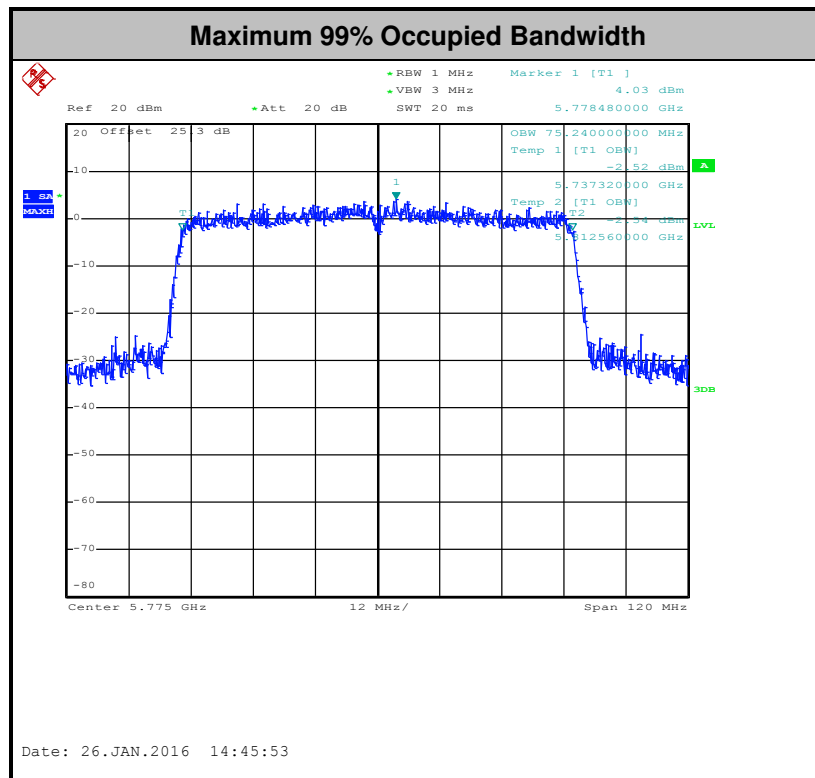




3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

3.2.2 Measuring Instruments

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

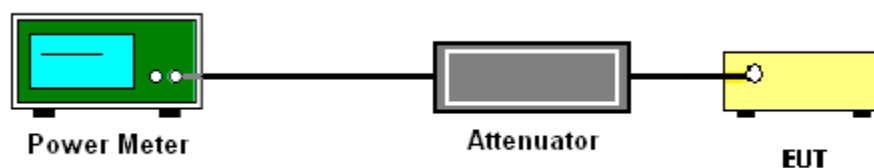
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.

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



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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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 v01r01.
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).

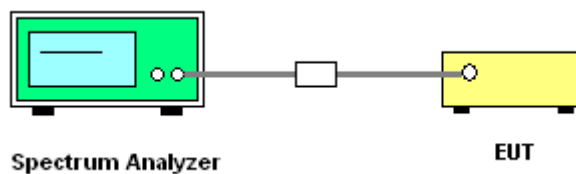
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

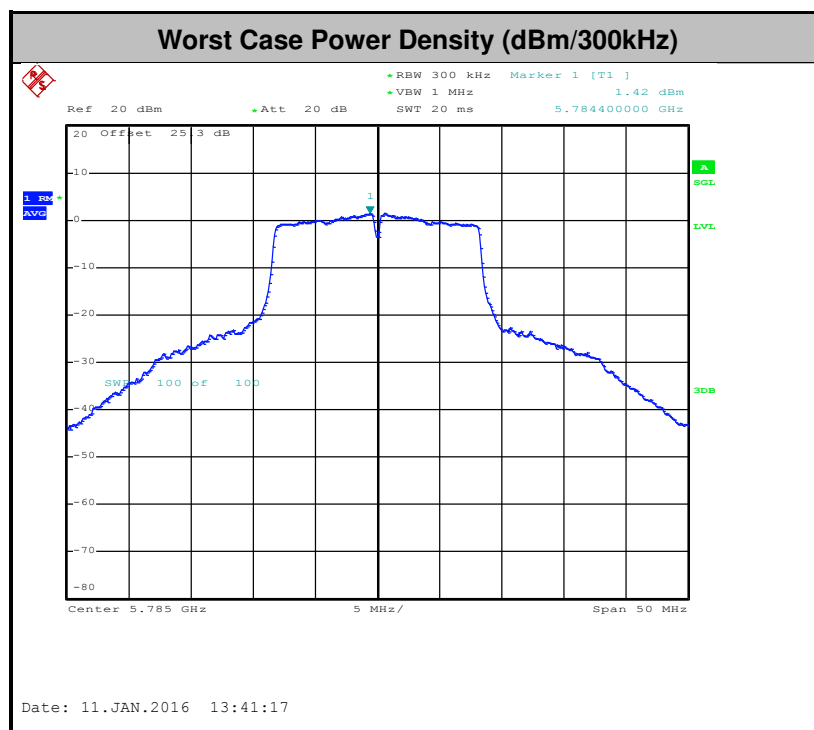
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5725-5850 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBμV/m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBμV/m).
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

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

- (3) KDB 789033 D02 General UNII Test Procedures New Rules v01r01 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 v01r01.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

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



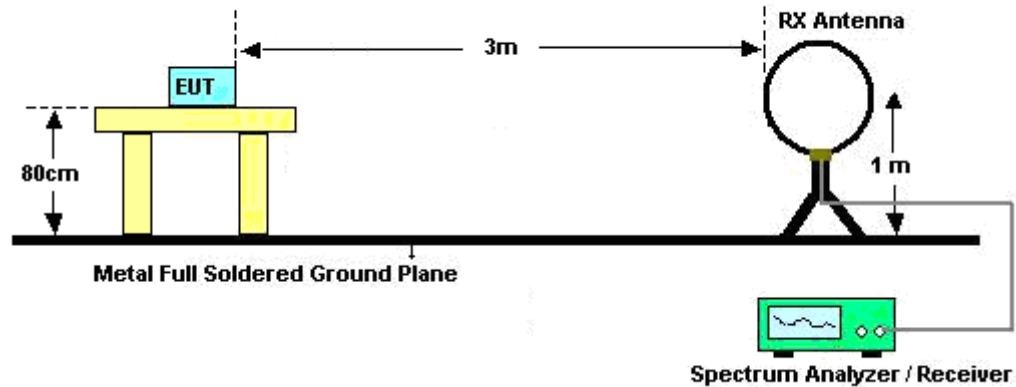
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	87.27	1440	0.69	1kHz
2	802.11a	87.35	1450	0.69	1kHz
1	5GHz 802.11n HT20	86.45	1340	0.75	1kHz
1	5GHz 802.11n HT40	75.58	650	1.54	3kHz
1	5GHz 802.11n VHT20	86.08	1360	0.74	1kHz
1	5GHz 802.11n VHT40	76.14	670	1.49	3kHz
1	5GHz 802.11n VHT80	61.48	332	3.01	10kHz
1+2	5GHz 802.11n HT20 for Ant 1	76.4	680	1.47	3kHz
1+2	5GHz 802.11n HT20 for Ant 2	76.4	680	1.47	
1+2	5GHz 802.11n HT40 for Ant 1	62.77	344	2.91	
1+2	5GHz 802.11n HT40 for Ant 2	62.77	344	2.91	
1+2	5GHz 802.11n VHT20 for Ant 1	86.08	1360	0.74	1kHz
1+2	5GHz 802.11n VHT20 for Ant 2	86.62	1360	0.74	
1+2	5GHz 802.11n VHT40 for Ant 1	76.4	680	1.47	3kHz
1+2	5GHz 802.11n VHT40 for Ant 2	76.4	680	1.47	
1+2	5GHz 802.11n VHT80 for Ant 1	62.22	336	2.98	
1+2	5GHz 802.11n VHT80 for Ant 2	61.48	332	3.01	10kHz



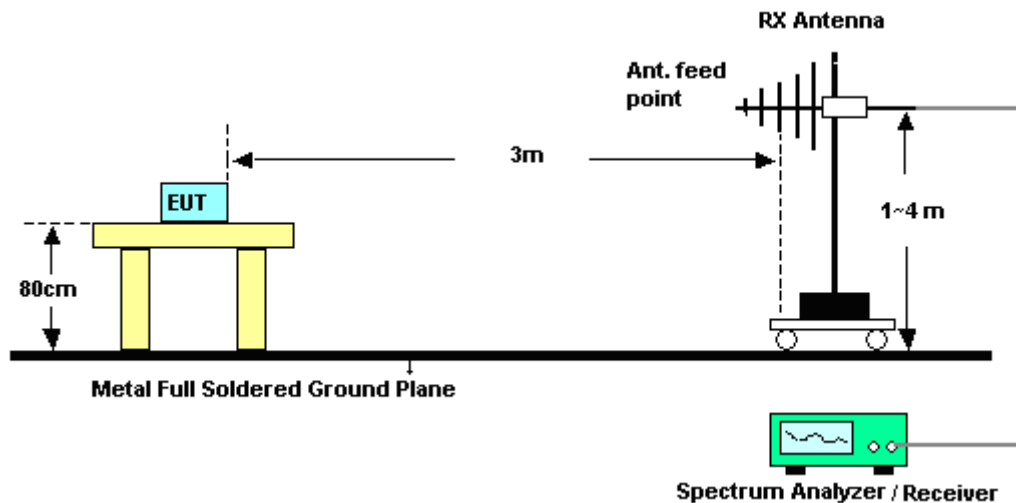
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

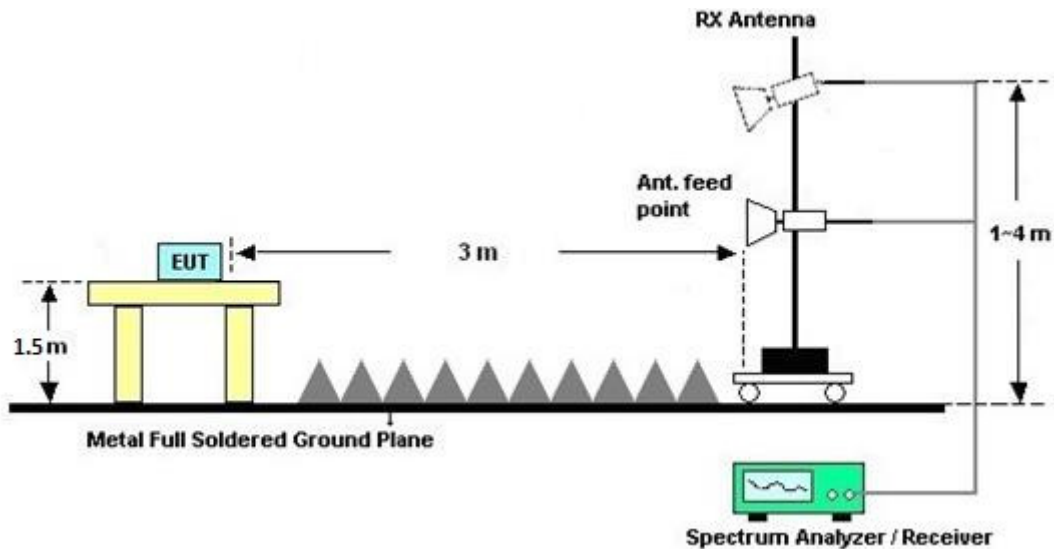
For radiated emissions below 30MHz



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 Appendix C.

3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B and Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

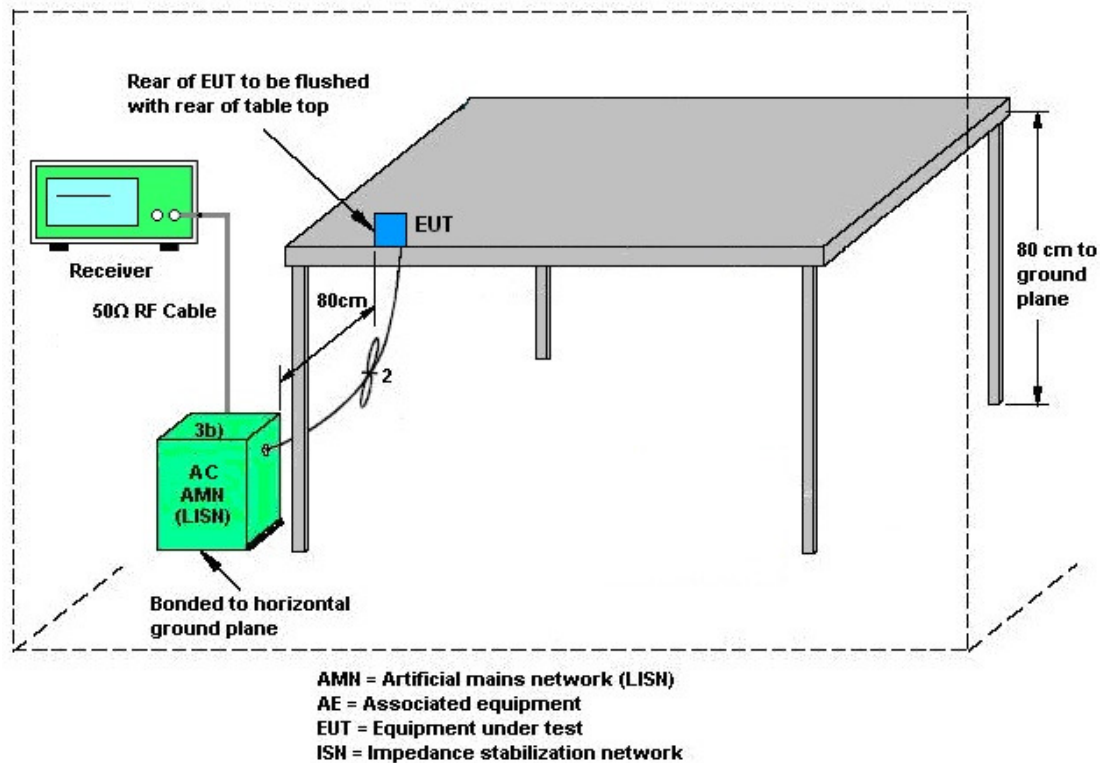
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

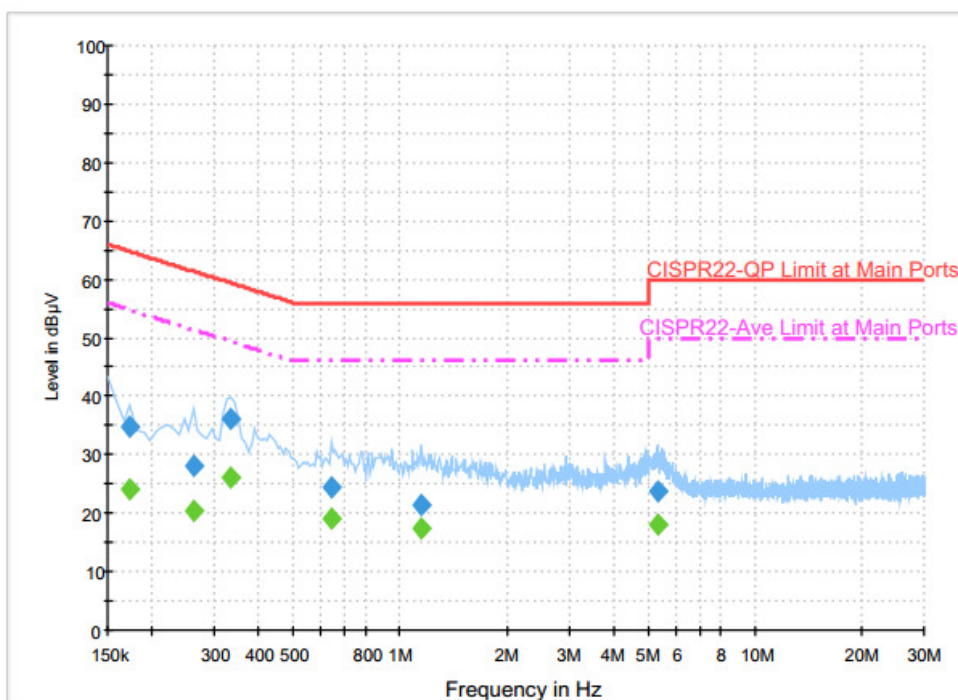
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	49~51%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + Adapter		



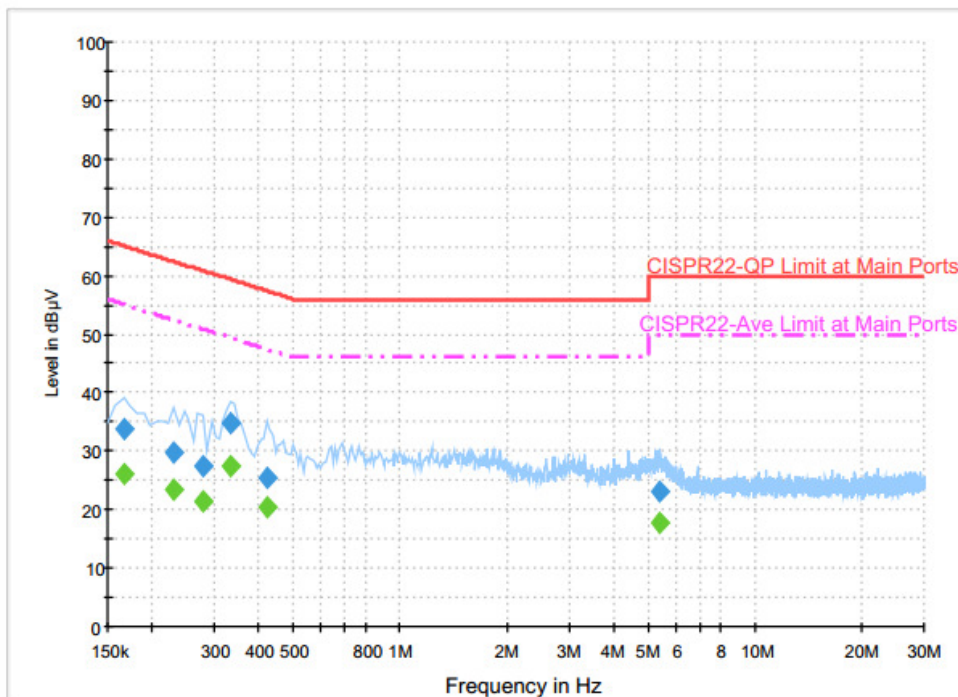
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	34.8	Off	L1	19.7	30.0	64.8
0.262000	28.0	Off	L1	19.7	33.4	61.4
0.334000	36.1	Off	L1	19.7	23.3	59.4
0.638000	24.3	Off	L1	19.7	31.7	56.0
1.150000	21.5	Off	L1	19.6	34.5	56.0
5.326000	23.9	Off	L1	19.7	36.1	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	24.0	Off	L1	19.7	30.8	54.8
0.262000	20.4	Off	L1	19.7	31.0	51.4
0.334000	26.2	Off	L1	19.7	23.2	49.4
0.638000	19.1	Off	L1	19.7	26.9	46.0
1.150000	17.6	Off	L1	19.6	28.4	46.0
5.326000	18.0	Off	L1	19.7	32.0	50.0

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	49~51%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + Adapter		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	33.8	Off	N	19.7	31.4	65.2
0.230000	29.8	Off	N	19.7	32.6	62.4
0.278000	27.5	Off	N	19.7	33.4	60.9
0.334000	34.7	Off	N	19.7	24.7	59.4
0.422000	25.5	Off	N	19.6	31.9	57.4
5.430000	23.0	Off	N	19.7	37.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	26.2	Off	N	19.7	29.0	55.2
0.230000	23.3	Off	N	19.7	29.1	52.4
0.278000	21.5	Off	N	19.7	29.4	50.9
0.334000	27.3	Off	N	19.7	22.1	49.4
0.422000	20.5	Off	N	19.6	26.9	47.4
5.430000	17.8	Off	N	19.7	32.2	50.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

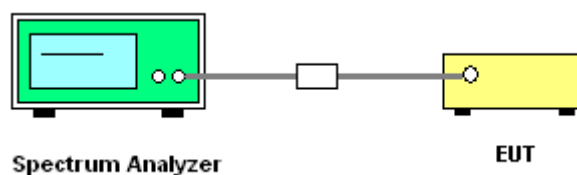
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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



3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band IV	4.70	3.50	4.70	7.13	0.00	1.13

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 02, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Dec. 01, 2016	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Jul. 29, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 29, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 28, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 18, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jun. 17, 2016	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 16, 2015	Dec. 29, 2015 ~ Jan. 26, 2016	Jul. 15, 2016	Conducted (TH02-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Sep. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Sep. 24, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Feb. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Feb. 01, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 12, 2016 ~ Jan. 22, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Jan. 12, 2016 ~ Jan. 22, 2016	N/A	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	37059	30MHz to 1GHz	Dec. 29, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Dec. 28, 2016	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 20, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Apr. 19, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Jan. 12, 2016 ~ Jan. 22, 2016	Jun. 01, 2016	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 23, 2015	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Dec. 23, 2015	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Dec. 23, 2015	Dec. 01, 2016	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26
--	------

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

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



Appendix A. Conducted Test Results

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2015/12/29~2016/01/26	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	17.85		38.10		16.04		0.5	0.5	Pass
11a	6Mbps	1	157	5785	18.40		38.30		15.64		0.5	0.5	Pass
11a	6Mbps	1	165	5825	18.00		39.40		16.26		0.5	0.5	Pass
HT20	MCS0	1	149	5745	18.60		39.60		16.32		0.5	0.5	Pass
HT20	MCS0	1	157	5785	18.75		39.80		16.28		0.5	0.5	Pass
HT20	MCS0	1	165	5825	18.70		39.80		16.82		0.5	0.5	Pass
HT40	MCS0	1	151	5755	36.40		42.66		35.16		0.5	0.5	Pass
HT40	MCS0	1	159	5795	36.90		73.26		35.12		0.5	0.5	Pass
VHT20	MCS0	1	149	5745	18.70		37.50		16.64		0.5	0.5	Pass
VHT20	MCS0	1	157	5785	18.80		40.00		16.50		0.5	0.5	Pass
VHT20	MCS0	1	165	5825	18.70		39.60		16.50		0.5	0.5	Pass
VHT40	MCS0	1	151	5755	36.50		54.18		35.16		0.5	0.5	Pass
VHT40	MCS0	1	159	5795	37.20		78.12		35.16		0.5	0.5	Pass
VHT80	MCS0	1	155	5775	75.24		81.92		75.04		0.5	0.5	Pass
HT20	MCS8	2	149	5745	18.25	18.30	25.70	21.60	16.70	16.70	0.5		Pass
HT20	MCS8	2	157	5785	18.30	18.25	24.80	21.70	16.58	17.02	0.5		Pass
HT20	MCS8	2	165	5825	18.30	18.30	24.80	21.60	16.90	17.10	0.5		Pass
HT40	MCS8	2	151	5755	36.40	36.20	42.12	41.40	35.16	35.08	0.5		Pass
HT40	MCS8	2	159	5795	36.40	36.30	54.18	41.58	35.12	35.08	0.5		Pass
VHT20	MCS0	2	149	5745	18.30	18.25	27.90	25.40	17.00	16.80	0.5		Pass
VHT20	MCS0	2	157	5785	18.30	18.20	30.60	27.00	16.92	16.78	0.5		Pass
VHT20	MCS0	2	165	5825	18.30	18.20	29.40	27.20	16.94	16.62	0.5		Pass
VHT40	MCS0	2	151	5755	36.40	36.40	41.80	42.00	35.12	35.12	0.5		Pass
VHT40	MCS0	2	159	5795	36.50	36.40	53.64	53.82	35.12	35.20	0.5		Pass
VHT80	MCS0	2	155	5775	75.00	75.12	81.60	81.92	74.96	74.96	0.5		Pass

TEST RESULTS DATA
Average Power Table

Band IV														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.59	0.59	17.73	17.70		30.00	30.00	4.70	3.50	Pass
11a	6Mbps	1	157	5785	0.59	0.59	17.95	17.66		30.00	30.00	4.70	3.50	Pass
11a	6Mbps	1	165	5825	0.59	0.59	17.90	17.63		30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	149	5745	0.63	0.66	17.47	17.28		30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	157	5785	0.63	0.66	17.36	17.22		30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	165	5825	0.63	0.66	17.37	17.36		30.00	30.00	4.70	3.50	Pass
HT40	MCS0	1	151	5755	1.22	1.21	15.26	15.17		30.00	30.00	4.70	3.50	Pass
HT40	MCS0	1	159	5795	1.22	1.21	17.15	17.13		30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	149	5745	0.65	0.65	16.49	16.18		30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	157	5785	0.65	0.65	17.08	17.06		30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	165	5825	0.65	0.65	17.32	17.15		30.00	30.00	4.70	3.50	Pass
VHT40	MCS0	1	151	5755	1.18	1.18	15.42	15.16		30.00	30.00	4.70	3.50	Pass
VHT40	MCS0	1	159	5795	1.18	1.18	17.31	16.90		30.00	30.00	4.70	3.50	Pass
VHT80	MCS0	1	155	5775	2.11	2.06	14.27	13.93		30.00	30.00	4.70	3.50	Pass
HT20	MCS8	2	149	5745	1.17	1.17	14.76	14.21	17.50	30.00		4.70		Pass
HT20	MCS8	2	157	5785	1.17	1.17	14.77	14.18	17.49	30.00		4.70		Pass
HT20	MCS8	2	165	5825	1.17	1.17	14.69	14.23	17.48	30.00		4.70		Pass
HT40	MCS8	2	151	5755	2.02	2.02	14.35	14.47	17.42	30.00		4.70		Pass
HT40	MCS8	2	159	5795	2.02	2.02	14.21	14.17	17.20	30.00		4.70		Pass
VHT20	MCS0	2	149	5745	0.65	0.62	14.38	14.16	17.28	30.00		4.70		Pass
VHT20	MCS0	2	157	5785	0.65	0.62	14.65	14.14	17.42	30.00		4.70		Pass
VHT20	MCS0	2	165	5825	0.65	0.62	14.58	14.38	17.49	30.00		4.70		Pass
VHT40	MCS0	2	151	5755	1.17	1.17	14.47	14.28	17.39	30.00		4.70		Pass
VHT40	MCS0	2	159	5795	1.17	1.17	14.43	14.53	17.49	30.00		4.70		Pass
VHT80	MCS0	2	155	5775	2.06	2.11	12.55	11.57	15.10	30.00		4.70		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.59	0.59	2.22	2.22	4.18			30.00	30.00	4.70	3.50	Pass
11a	6Mbps	1	157	5785	0.59	0.59	2.22	2.22	4.23			30.00	30.00	4.70	3.50	Pass
11a	6Mbps	1	165	5825	0.59	0.59	2.22	2.22	4.22			30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	149	5745	0.63	0.66	2.22	2.22	3.20			30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	157	5785	0.63	0.66	2.22	2.22	3.30			30.00	30.00	4.70	3.50	Pass
HT20	MCS0	1	165	5825	0.63	0.66	2.22	2.22	3.06			30.00	30.00	4.70	3.50	Pass
HT40	MCS0	1	151	5755	1.22	1.21	2.22	2.22	-1.91			30.00	30.00	4.70	3.50	Pass
HT40	MCS0	1	159	5795	1.22	1.21	2.22	2.22	0.37			30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	149	5745	0.65	0.65	2.22	2.22	2.60			30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	157	5785	0.65	0.65	2.22	2.22	3.43			30.00	30.00	4.70	3.50	Pass
VHT20	MCS0	1	165	5825	0.65	0.65	2.22	2.22	3.29			30.00	30.00	4.70	3.50	Pass
VHT40	MCS0	1	151	5755	1.18	1.18	2.22	2.22	-1.87			30.00	30.00	4.70	3.50	Pass
VHT40	MCS0	1	159	5795	1.18	1.18	2.22	2.22	0.77			30.00	30.00	4.70	3.50	Pass
VHT80	MCS0	1	155	5775	2.11	2.06	2.22	2.22	-5.79			30.00	30.00	4.70	3.50	Pass
HT20	MCS8	2	149	5745	1.17	1.17	2.22				1.26	28.87		7.13		Pass
HT20	MCS8	2	157	5785	1.17	1.17	2.22				-2.82	28.87		7.13		Pass
HT20	MCS8	2	165	5825	1.17	1.17	2.22				1.25	28.87		7.13		Pass
HT40	MCS8	2	151	5755	2.02	2.02	2.22				-5.18	28.87		7.13		Pass
HT40	MCS8	2	159	5795	2.02	2.02	2.22				-7.57	28.87		7.13		Pass
VHT20	MCS0	2	149	5745	0.65	0.62	2.22				1.50	28.87		7.13		Pass
VHT20	MCS0	2	157	5785	0.65	0.62	2.22				0.13	28.87		7.13		Pass
VHT20	MCS0	2	165	5825	0.65	0.62	2.22				1.56	28.87		7.13		Pass
VHT40	MCS0	2	151	5755	1.17	1.17	2.22				-1.23	28.87		7.13		Pass
VHT40	MCS0	2	159	5795	1.17	1.17	2.22				-3.79	28.87		7.13		Pass
VHT80	MCS0	2	155	5775	2.06	2.11	2.22				-9.23	28.87		7.13		Pass

TEST RESULTS DATA
Frequency Stability

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	20	3.2	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	20	4.2	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	20	3.7	
11a	6Mbps	1	149	5745	5744.975	-0.025	-4.35	-30	3.7	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	50	3.7	



Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang and Bill Chang and Ken Wu	Temperature :	20~22°C
		Relative Humidity :	54~56%

Band 4 - 5725~5850MHz

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 149 5745MHz		5715	60.98	-13.02	74	52.87	32.29	9.39	33.57	313	89	P	H
		5722.52	74.58	-3.72	78.3	66.4	32.31	9.44	33.57	313	89	P	H
		5714.76	49.33	-4.67	54	41.22	32.29	9.39	33.57	313	89	A	H
	*	5745	107.24	-	-	99.03	32.34	9.44	33.57	313	89	P	H
	*	5745	100.7	-	-	92.49	32.34	9.44	33.57	313	89	A	H
													H
													H
													H
		5714.52	62.56	-11.44	74	54.45	32.29	9.39	33.57	210	41	P	V
		5725	77.21	-1.09	78.3	69.03	32.31	9.44	33.57	210	41	P	V
		5715	52.84	-1.16	54	44.73	32.29	9.39	33.57	210	41	A	V
	*	5745	111.45	-	-	103.24	32.34	9.44	33.57	210	41	P	V
	*	5745	103.9	-	-	95.69	32.34	9.44	33.57	210	41	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5713	48.72	-25.28	74	40.61	32.29	9.39	33.57	297	90	P	H
		5721.72	48.51	-29.79	78.3	40.33	32.31	9.44	33.57	297	90	P	H
		5711.88	39.97	-14.03	54	31.86	32.29	9.39	33.57	297	90	A	H
	*	5785	107.21	-	-	98.92	32.39	9.49	33.59	297	90	P	H
	*	5785	100.95	-	-	92.66	32.39	9.49	33.59	297	90	A	H
		5858	48.47	-29.83	78.3	40.04	32.51	9.54	33.62	297	90	P	H
		5861.92	48.84	-25.16	74	40.41	32.51	9.54	33.62	297	90	P	H
		5862.4	41.02	-12.98	54	32.59	32.51	9.54	33.62	297	90	A	H
		5694.28	49.31	-24.69	74	41.21	32.27	9.39	33.56	205	41	P	V
		5716.44	49.97	-28.33	78.3	41.86	32.29	9.39	33.57	205	41	P	V
		5699.32	40.91	-13.09	54	32.81	32.27	9.39	33.56	205	41	A	V
	*	5785	111.16	-	-	102.87	32.39	9.49	33.59	205	41	P	V
	*	5785	103.96	-	-	95.67	32.39	9.49	33.59	205	41	A	V
		5857.6	50.34	-27.96	78.3	41.9	32.51	9.54	33.61	205	41	P	V
		5861.2	52.06	-21.94	74	43.63	32.51	9.54	33.62	205	41	P	V
		5860.16	42.68	-11.32	54	34.25	32.51	9.54	33.62	205	41	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	107.19	-	-	98.81	32.46	9.52	33.6	297	90	P	H
	*	5825	100.35	-	-	91.97	32.46	9.52	33.6	297	90	A	H
		5852.72	64.57	-13.73	78.3	56.16	32.48	9.54	33.61	297	90	P	H
		5862.56	58.14	-15.86	74	49.71	32.51	9.54	33.62	297	90	P	H
		5860	48.54	-5.46	54	40.11	32.51	9.54	33.62	297	90	A	H
													H
													H
													H
	*	5825	111.92	-	-	103.54	32.46	9.52	33.6	202	41	P	V
	*	5825	104.14	-	-	95.76	32.46	9.52	33.6	202	41	A	V
		5853.2	68.45	-9.85	78.3	60.04	32.48	9.54	33.61	202	41	P	V
		5861.04	60.78	-13.22	74	52.35	32.51	9.54	33.62	202	41	P	V
		5860.32	52	-2	54	43.57	32.51	9.54	33.62	202	41	A	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 149 5745MHz		11490	41.23	-32.77	74	53.11	39.91	13.95	65.74	100	0	P	H
		17235	61.67	-12.33	74	67.8	41	16.95	64.08	371	61	P	H
		17235	50.25	-3.75	54	56.38	41	16.95	64.08	371	61	A	H
													H
		11490	41.71	-32.29	74	53.59	39.91	13.95	65.74	100	0	P	V
		17235	59.95	-14.05	74	66.08	41	16.95	64.08	345	223	P	V
		17235	48.98	-5.02	54	55.11	41	16.95	64.08	345	223	A	V
													V
802.11a CH 157 5785MHz		11570	41.78	-32.22	74	53.68	39.76	14	65.66	100	0	P	H
		17355	59.95	-14.05	74	65.79	41.35	17.03	64.22	344	65	P	H
		17355	48.46	-5.54	54	54.3	41.35	17.03	64.22	344	65	A	H
													H
		11570	41.7	-32.3	74	53.6	39.76	14	65.66	100	0	P	V
		17355	58.74	-15.26	74	64.58	41.35	17.03	64.22	397	226	P	V
		17355	47.54	-6.46	54	53.38	41.35	17.03	64.22	397	226	A	V
													V
802.11a CH 165 5825MHz		11650	42.52	-31.48	74	54.47	39.62	14.05	65.62	100	0	P	H
		17475	58.64	-15.36	74	64.2	41.7	17.1	64.36	340	66	P	H
		17475	46.92	-7.08	54	52.48	41.7	17.1	64.36	340	66	A	H
													H
		11650	43.14	-30.86	74	55.09	39.62	14.05	65.62	100	0	P	V
		17475	56.72	-17.28	74	62.28	41.7	17.1	64.36	390	225	P	V
		17475	45.48	-8.52	54	51.04	41.7	17.1	64.36	390	225	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)
802.11n HT20 CH 149 5745MHz		5714.6	57.86	-16.14	74	49.75	32.29	9.39	33.57	315	89	P	H
		5724.12	75.64	-2.66	78.3	67.46	32.31	9.44	33.57	315	89	P	H
		5715	49.28	-4.72	54	41.17	32.29	9.39	33.57	315	89	A	H
	*	5745	106.79	-	-	98.58	32.34	9.44	33.57	315	89	P	H
	*	5745	99.98	-	-	91.77	32.34	9.44	33.57	315	89	A	H
													H
													H
													H
		5713.16	61.96	-12.04	74	53.85	32.29	9.39	33.57	210	41	P	V
		5724.12	77.01	-1.29	78.3	68.83	32.31	9.44	33.57	210	41	P	V
		5714.76	51.35	-2.65	54	43.24	32.29	9.39	33.57	210	41	A	V
	*	5745	110.11	-	-	101.9	32.34	9.44	33.57	210	41	P	V
	*	5745	103.21	-	-	95	32.34	9.44	33.57	210	41	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5687.64	48.71	-25.29	74	40.61	32.27	9.39	33.56	297	90	P	H
		5715.24	48.31	-29.99	78.3	40.2	32.29	9.39	33.57	297	90	P	H
		5715	40.02	-13.98	54	31.91	32.29	9.39	33.57	297	90	A	H
	*	5785	106.46	-	-	98.17	32.39	9.49	33.59	297	90	P	H
	*	5785	100.12	-	-	91.83	32.39	9.49	33.59	297	90	A	H
		5854.8	48.4	-29.9	78.3	39.96	32.51	9.54	33.61	297	90	P	H
		5860.8	48.5	-25.5	74	40.07	32.51	9.54	33.62	297	90	P	H
		5860.16	40.63	-13.37	54	32.2	32.51	9.54	33.62	297	90	A	H
		5688.68	49.99	-24.01	74	41.89	32.27	9.39	33.56	205	41	P	V
		5720.44	48.71	-29.59	78.3	40.58	32.31	9.39	33.57	205	41	P	V
		5714.84	41.1	-12.9	54	32.99	32.29	9.39	33.57	205	41	A	V
	*	5785	110.67	-	-	102.38	32.39	9.49	33.59	205	41	P	V
	*	5785	103.43	-	-	95.14	32.39	9.49	33.59	205	41	A	V
		5855.6	50.68	-27.62	78.3	42.24	32.51	9.54	33.61	205	41	P	V
		5866.72	50.75	-23.25	74	42.32	32.51	9.54	33.62	205	41	P	V
		5862.48	42.39	-11.61	54	33.96	32.51	9.54	33.62	205	41	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	106.73	-	-	98.35	32.46	9.52	33.6	292	90	P	H
	*	5825	99.8	-	-	91.42	32.46	9.52	33.6	292	90	A	H
		5850.8	64.03	-14.27	78.3	55.62	32.48	9.54	33.61	292	90	P	H
		5860.48	58.31	-15.69	74	49.88	32.51	9.54	33.62	292	90	P	H
		5860.48	48.11	-5.89	54	39.68	32.51	9.54	33.62	292	90	A	H
													H
													H
													H
	*	5825	110.55	-	-	102.17	32.46	9.52	33.6	202	41	P	V
	*	5825	103.39	-	-	95.01	32.46	9.52	33.6	202	41	A	V
		5850.32	69.65	-8.65	78.3	61.24	32.48	9.54	33.61	202	41	P	V
		5860.32	59.91	-14.09	74	51.48	32.51	9.54	33.62	202	41	P	V
		5860	51.56	-2.44	54	43.13	32.51	9.54	33.62	202	41	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
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)
802.11n HT20 CH 149 5745MHz		11490	41.78	-32.22	74	53.66	39.91	13.95	65.74	100	0	P	H
		17235	59.54	-14.46	74	65.67	41	16.95	64.08	353	68	P	H
		17235	49.19	-4.81	54	55.32	41	16.95	64.08	353	68	A	H
													H
		11490	42.37	-31.63	74	54.25	39.91	13.95	65.74	100	0	P	V
		17235	58.45	-15.55	74	64.58	41	16.95	64.08	398	228	P	V
		17235	48.48	-5.52	54	54.61	41	16.95	64.08	398	228	A	V
													V
802.11n HT20 CH 157 5785MHz		11570	41.52	-32.48	74	53.42	39.76	14	65.66	100	0	P	H
		17355	57.82	-16.18	74	63.66	41.35	17.03	64.22	329	66	P	H
		17355	47.76	-6.24	54	53.6	41.35	17.03	64.22	329	66	A	H
													H
		11570	41.33	-32.67	74	53.23	39.76	14	65.66	100	0	P	V
		17355	56.86	-17.14	74	62.7	41.35	17.03	64.22	398	227	P	V
		17355	46.16	-7.84	54	52	41.35	17.03	64.22	398	227	A	V
													V
802.11n HT20 CH 165 5825MHz		11650	42.08	-31.92	74	54.03	39.62	14.05	65.62	100	0	P	H
		17475	55.78	-18.22	74	61.34	41.7	17.1	64.36	333	67	P	H
		17475	45.96	-8.04	54	51.52	41.7	17.1	64.36	333	67	A	H
													H
		11650	41.89	-32.11	74	53.84	39.62	14.05	65.62	100	0	P	V
		17475	55.3	-18.7	74	60.86	41.7	17.1	64.36	388	227	P	V
		17475	45.32	-8.68	54	50.88	41.7	17.1	64.36	388	227	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 151 5755MHz		5714.68	65.94	-2.36	68.3	57.83	32.29	9.39	33.57	293	90	P	H
		5719.64	72.72	-5.58	78.3	64.59	32.31	9.39	33.57	293	90	P	H
	*	5755	103.8	-	-	95.57	32.36	9.44	33.57	293	90	P	H
		5755	96.01	-	-	87.78	32.36	9.44	33.57	293	90	A	H
		5851.84	48.62	-29.68	78.3	40.21	32.48	9.54	33.61	293	90	P	H
		5884.08	49.12	-19.18	68.3	40.65	32.53	9.57	33.63	293	90	P	H
													H
													H
		5711.48	66.78	-1.52	68.3	58.67	32.29	9.39	33.57	209	39	P	V
		5719.72	75.83	-2.47	78.3	67.7	32.31	9.39	33.57	209	39	P	V
	*	5755	106.29	-	-	98.06	32.36	9.44	33.57	209	39	P	V
		5755	98.51	-	-	90.28	32.36	9.44	33.57	209	39	A	V
		5854.8	49.13	-29.17	78.3	40.69	32.51	9.54	33.61	209	39	P	V
		5864.64	50.65	-17.65	68.3	42.22	32.51	9.54	33.62	209	39	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5698.68	49.89	-24.11	74	41.79	32.27	9.39	33.56	286	90	P	H
		5719.4	51.88	-26.42	78.3	43.75	32.31	9.39	33.57	286	90	P	H
		5711.24	41.93	-12.07	54	33.82	32.29	9.39	33.57	286	90	A	H
	*	5795	105.16	-	-	96.85	32.41	9.49	33.59	286	90	P	H
	*	5795	97.21	-	-	88.9	32.41	9.49	33.59	286	90	A	H
		5852.24	63.92	-14.38	78.3	55.51	32.48	9.54	33.61	286	90	P	H
		5862.88	54.83	-19.17	74	46.4	32.51	9.54	33.62	286	90	P	H
		5860.8	47.74	-6.26	54	39.31	32.51	9.54	33.62	286	90	A	H
		5711.72	51.17	-22.83	74	43.06	32.29	9.39	33.57	210	40	P	V
		5720.6	54.99	-23.31	78.3	46.86	32.31	9.39	33.57	210	40	P	V
		5714.12	44.11	-9.89	54	36	32.29	9.39	33.57	210	40	A	V
	*	5795	107.8	-	-	99.49	32.41	9.49	33.59	210	40	P	V
	*	5795	100.56	-	-	92.25	32.41	9.49	33.59	210	40	A	V
		5851.76	65.86	-12.44	78.3	57.45	32.48	9.54	33.61	210	40	P	V
		5863.44	59.06	-14.94	74	50.63	32.51	9.54	33.62	210	40	P	V
		5860.48	51.03	-2.97	54	42.6	32.51	9.54	33.62	210	40	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
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)
802.11n HT40 CH 151 5755MHz		11510	41.83	-32.17	74	53.68	39.9	13.95	65.7	100	0	P	H
		17265	49.65	-24.35	74	55.72	41.1	16.95	64.12	100	0	P	H
													H
													H
		11510	42.7	-31.3	74	54.55	39.9	13.95	65.7	100	0	P	V
		17265	49.52	-24.48	74	55.59	41.1	16.95	64.12	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	42.31	-31.69	74	54.23	39.73	14	65.65	100	0	P	H
		17385	55.75	-18.25	74	61.53	41.45	17.03	64.26	360	61	P	H
		17385	44.81	-9.19	54	50.59	41.45	17.03	64.26	360	61	A	H
													H
		5302	53.19	-20.81	74	45.87	31.76	9.04	33.48	210	40	P	V
		5302	47.16	-6.84	54	39.84	31.76	9.04	33.48	210	40	A	V
		11590	41.62	-32.38	74	53.54	39.73	14	65.65	100	0	P	V
		17385	55.34	-18.66	74	61.12	41.45	17.03	64.26	394	227	P	V
		17385	44.18	-9.82	54	49.96	41.45	17.03	64.26	394	227	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		5713.08	56.09	-17.91	74	47.98	32.29	9.39	33.57	236	107	P	H
		5724.52	74.31	-3.99	78.3	66.13	32.31	9.44	33.57	236	107	P	H
		5714.6	46.55	-7.45	54	38.44	32.29	9.39	33.57	236	107	A	H
	*	5745	106.27	-	-	98.06	32.34	9.44	33.57	236	107	P	H
	*	5745	99.23	-	-	91.02	32.34	9.44	33.57	236	107	A	H
													H
													H
													H
		5715	60.34	-13.66	74	52.23	32.29	9.39	33.57	226	48	P	V
		5724.68	76.32	-1.98	78.3	68.14	32.31	9.44	33.57	226	48	P	V
		5714.6	49.17	-4.83	54	41.06	32.29	9.39	33.57	226	48	A	V
	*	5745	109.8	-	-	101.59	32.34	9.44	33.57	226	48	P	V
	*	5745	102.21	-	-	94	32.34	9.44	33.57	226	48	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 157 5785MHz		5711.72	48.33	-25.67	74	40.22	32.29	9.39	33.57	297	90	P	H
		5717.96	47.39	-30.91	78.3	39.26	32.31	9.39	33.57	297	90	P	H
		5695.88	39.57	-14.43	54	31.47	32.27	9.39	33.56	297	90	A	H
	*	5785	106.57	-	-	98.28	32.39	9.49	33.59	297	90	P	H
	*	5785	100.03	-	-	91.74	32.39	9.49	33.59	297	90	A	H
		5851.6	50.01	-28.29	78.3	41.6	32.48	9.54	33.61	297	90	P	H
		5866.56	48.78	-25.22	74	40.35	32.51	9.54	33.62	297	90	P	H
		5863.04	40.95	-13.05	54	32.52	32.51	9.54	33.62	297	90	A	H
		5705.48	48.88	-25.12	74	40.77	32.29	9.39	33.57	208	41	P	V
		5723.64	48.65	-29.65	78.3	40.47	32.31	9.44	33.57	208	41	P	V
		5715	41.12	-12.88	54	33.01	32.29	9.39	33.57	208	41	A	V
	*	5785	109.43	-	-	101.14	32.39	9.49	33.59	208	41	P	V
	*	5785	103.11	-	-	94.82	32.39	9.49	33.59	208	41	A	V
		5851.44	50.61	-27.69	78.3	42.2	32.48	9.54	33.61	208	41	P	V
		5878	51.23	-22.77	74	42.78	32.53	9.54	33.62	208	41	P	V
		5863.28	42.69	-11.31	54	34.26	32.51	9.54	33.62	208	41	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz	*	5825	107.55	-	-	99.17	32.46	9.52	33.6	292	90	P	H
	*	5825	99.98	-	-	91.6	32.46	9.52	33.6	292	90	A	H
		5853.76	63.08	-15.22	78.3	54.64	32.51	9.54	33.61	292	90	P	H
		5860.4	60.09	-13.91	74	51.66	32.51	9.54	33.62	292	90	P	H
		5860.16	48.26	-5.74	54	39.83	32.51	9.54	33.62	292	90	A	H
													H
													H
													H
	*	5825	109.73	-	-	101.35	32.46	9.52	33.6	199	41	P	V
	*	5825	103.09	-	-	94.71	32.46	9.52	33.6	199	41	A	V
		5854.08	67.69	-10.61	78.3	59.25	32.51	9.54	33.61	199	41	P	V
		5860.64	62.64	-11.36	74	54.21	32.51	9.54	33.62	199	41	P	V
		5860.24	51.27	-2.73	54	42.84	32.51	9.54	33.62	199	41	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		11490	42.48	-31.52	74	54.36	39.91	13.95	65.74	100	0	P	H
		17235	59.68	-14.32	74	65.81	41	16.95	64.08	354	68	P	H
		17235	49.61	-4.39	54	55.74	41	16.95	64.08	354	68	A	H
													H
		11490	42.15	-31.85	74	54.03	39.91	13.95	65.74	100	0	P	V
		17235	59.36	-14.64	74	65.49	41	16.95	64.08	391	225	P	V
		17235	49.1	-4.9	54	55.23	41	16.95	64.08	391	225	A	V
													V
802.11ac VHT20 CH 157 5785MHz		11570	43.74	-30.26	74	55.64	39.76	14	65.66	100	0	P	H
		17355	56.5	-17.5	74	62.34	41.35	17.03	64.22	356	69	P	H
		17355	46.99	-7.01	54	52.83	41.35	17.03	64.22	356	69	A	H
													H
		11570	43.28	-30.72	74	55.18	39.76	14	65.66	100	0	P	V
		17355	55.12	-18.88	74	60.96	41.35	17.03	64.22	389	225	P	V
		17355	44.99	-9.01	54	50.83	41.35	17.03	64.22	389	225	A	V
													V
802.11ac VHT20 CH 165 5825MHz		11650	42.74	-31.26	74	54.69	39.62	14.05	65.62	100	0	P	H
		17475	57.49	-16.51	74	63.05	41.7	17.1	64.36	351	68	P	H
		17475	47.62	-6.38	54	53.18	41.7	17.1	64.36	351	68	A	H
													H
		11650	41.87	-32.13	74	53.82	39.62	14.05	65.62	100	0	P	V
		17475	55.17	-18.83	74	60.73	41.7	17.1	64.36	389	227	P	V
		17475	45.41	-8.59	54	50.97	41.7	17.1	64.36	389	227	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5712.28	63.79	-4.51	68.3	55.68	32.29	9.39	33.57	293	90	P	H
		5721.4	70.79	-7.51	78.3	62.66	32.31	9.39	33.57	293	90	P	H
	*	5755	102.78	-	-	94.55	32.36	9.44	33.57	293	90	P	H
		5755	95.84	-	-	87.61	32.36	9.44	33.57	293	90	A	H
		5853.12	49.36	-28.94	78.3	40.95	32.48	9.54	33.61	293	90	P	H
		5867.2	49.49	-18.81	68.3	41.06	32.51	9.54	33.62	293	90	P	H
													H
													H
		5714.44	65.58	-2.72	68.3	57.47	32.29	9.39	33.57	209	39	P	V
		5724.36	74.6	-3.7	78.3	66.42	32.31	9.44	33.57	209	39	P	V
	*	5755	106.16	-	-	97.93	32.36	9.44	33.57	209	39	P	V
		5755	98.06	-	-	89.83	32.36	9.44	33.57	209	39	A	V
		5853.52	49.7	-28.6	78.3	41.26	32.51	9.54	33.61	209	39	P	V
		5861.12	49.7	-18.6	68.3	41.27	32.51	9.54	33.62	209	39	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5712.84	52.27	-16.03	68.3	44.16	32.29	9.39	33.57	286	90	P	H
		5723.08	55.36	-22.94	78.3	47.18	32.31	9.44	33.57	286	90	P	H
	*	5795	105.62	-	-	97.31	32.41	9.49	33.59	286	90	P	H
		5795	98.52	-	-	90.21	32.41	9.49	33.59	286	90	A	H
		5854.96	64.2	-14.1	78.3	55.76	32.51	9.54	33.61	286	90	P	H
		5862.96	57.91	-10.39	68.3	49.48	32.51	9.54	33.62	286	90	P	H
													H
													H
		5703.88	53.57	-14.73	68.3	45.45	32.29	9.39	33.56	239	55	P	V
		5719.48	60.42	-17.88	78.3	52.29	32.31	9.39	33.57	239	55	P	V
	*	5795	111.46	-	-	103.15	32.41	9.49	33.59	239	55	P	V
		5795	103.98	-	-	95.67	32.41	9.49	33.59	239	55	A	V
		5853.84	68.59	-9.71	78.3	60.15	32.51	9.54	33.61	239	55	P	V
		5865.2	62.59	-5.71	68.3	54.16	32.51	9.54	33.62	239	55	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		11510	42.2	-31.8	74	54.05	39.9	13.95	65.7	100	0	P	H
		17265	49.44	-24.56	74	55.51	41.1	16.95	64.12	100	0	P	H
													H
													H
		5290	52.41	-21.59	74	45.11	31.74	9.04	33.48	209	39	P	V
		5290	46.24	-7.76	54	38.94	31.74	9.04	33.48	209	39	A	V
		11510	42.66	-31.34	74	54.51	39.9	13.95	65.7	100	0	P	V
		17265	50.83	-23.17	74	56.9	41.1	16.95	64.12	100	0	P	V
802.11ac VHT40 CH 159 5795MHz		11590	42.08	-31.92	74	54	39.73	14	65.65	100	0	P	H
		17385	56.98	-17.02	74	62.76	41.45	17.03	64.26	335	68	P	H
		17385	46.93	-7.07	54	52.71	41.45	17.03	64.26	335	68	A	H
													H
		5332	51.32	-22.68	74	43.92	31.8	9.08	33.48	239	55	P	V
		5332	45.43	-8.57	54	38.03	31.8	9.08	33.48	239	55	A	V
		11590	41.36	-32.64	74	53.28	39.73	14	65.65	100	0	P	V
		17385	50.91	-23.09	74	56.69	41.45	17.03	64.26	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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 155 5775MHz		5714.28	62.36	-5.94	68.3	54.25	32.29	9.39	33.57	274	92	P	H
		5721.96	66.07	-12.23	78.3	57.89	32.31	9.44	33.57	274	92	P	H
	*	5775	97.15	-	-	88.85	32.39	9.49	33.58	274	92	P	H
		5775	90.12	-	-	81.82	32.39	9.49	33.58	274	92	A	H
		5851.44	59.23	-19.07	78.3	50.82	32.48	9.54	33.61	274	92	P	H
		5863.84	58.04	-10.26	68.3	49.61	32.51	9.54	33.62	274	92	P	H
													H
													H
		5713.4	66.71	-1.59	68.3	58.6	32.29	9.39	33.57	239	54	P	V
		5723.8	69.33	-8.97	78.3	61.15	32.31	9.44	33.57	239	54	P	V
	*	5775	101.75	-	-	93.45	32.39	9.49	33.58	239	54	P	V
		5775	93.96	-	-	85.66	32.39	9.49	33.58	239	54	A	V
		5859.76	63.49	-14.81	78.3	55.06	32.51	9.54	33.62	239	54	P	V
		5862.48	62.79	-5.51	68.3	54.36	32.51	9.54	33.62	239	54	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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)
802.11ac VHT80 CH 155 5775MHz		6224	54.38	-19.62	74	45.04	33.31	9.83	33.8	274	92	P	H
		6224	47.56	-6.44	54	38.22	33.31	9.83	33.8	274	92	A	H
		11550	41.23	-32.77	74	53.13	39.8	13.97	65.67	100	0	P	H
		17325	42.83	-31.17	74	48.76	41.25	17	64.18	100	0	P	H
		5324	52.14	-21.86	74	44.76	31.78	9.08	33.48	239	54	P	V
		5324	45.28	-8.72	54	37.9	31.78	9.08	33.48	239	54	A	V
		6222	56.67	-17.33	74	47.33	33.31	9.83	33.8	239	54	P	V
		6222	49.75	-4.25	54	40.41	33.31	9.83	33.8	239	54	A	V
		11550	41.45	-32.55	74	53.35	39.8	13.97	65.67	100	0	P	V
		17325	42.99	-31.01	74	48.92	41.25	17	64.18	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		31.62	28.02	-11.98	40	34.46	24.72	0.67	31.83	-	-	P	H
		224.94	29.34	-16.66	46	42.98	16.35	1.79	31.78	-	-	P	H
		250.05	36.08	-9.92	46	47.41	18.5	1.94	31.77	-	-	P	H
		454.7	32.5	-13.5	46	38.59	23.19	2.57	31.85	-	-	P	H
		720.7	38.02	-7.98	46	40	26.89	3.14	32.01	-	-	P	H
		799.8	41.21	-4.79	46	41.98	27.8	3.35	31.92	122	100	P	H
													H
													H
													H
													H
													H
													H
		31.62	35.06	-4.94	40	41.5	24.72	0.67	31.83	200	71	P	V
		156.09	28.61	-14.89	43.5	41.73	17.2	1.46	31.78	-	-	P	V
		250.05	32.71	-13.29	46	44.04	18.5	1.94	31.77	-	-	P	V
		540.1	34.69	-11.31	46	39.47	24.4	2.77	31.95	-	-	P	V
		720	36.21	-9.79	46	38.22	26.87	3.14	32.02	-	-	P	V
		874.7	37.13	-8.87	46	36.49	28.75	3.44	31.55	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 - 5725~5850MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5714.44	60.55	-7.75	68.3	52.44	32.29	9.39	33.57	100	237	P	H
		5723.32	75.59	-2.71	78.3	67.41	32.31	9.44	33.57	100	237	P	H
	*	5745	110.58	-	-	102.37	32.34	9.44	33.57	100	237	P	H
	*	5745	103.35	-	-	95.14	32.34	9.44	33.57	100	237	A	H
													H
													H
													H
													H
		5713.88	60.14	-8.16	68.3	52.03	32.29	9.39	33.57	100	282	P	V
		5721.72	75.32	-2.98	78.3	67.14	32.31	9.44	33.57	100	282	P	V
	*	5745	107.75	-	-	99.54	32.34	9.44	33.57	100	282	P	V
	*	5745	100.63	-	-	92.42	32.34	9.44	33.57	100	282	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	43.57	-30.43	74	55.45	39.91	13.95	65.74	100	0	P	H
		17235	42.89	-25.41	68.3	49.02	41	16.95	64.08	100	0	P	H
													H
													H
		11490	44.62	-29.38	74	56.5	39.91	13.95	65.74	100	0	P	V
		17235	43.73	-24.57	68.3	49.86	41	16.95	64.08	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		90.48	28.21	-15.29	43.5	43.91	14.8	1.28	31.78	-	-	P	H
		224.94	31.72	-14.28	46	45.36	16.35	1.79	31.78	-	-	P	H
		250.05	39.41	-6.59	46	50.74	18.5	1.94	31.77	-	-	P	H
		300	36.38	-9.62	46	46.53	19.5	2.11	31.76	-	-	P	H
		624.8	36.2	-9.8	46	39.59	25.69	2.96	32.04	-	-	P	H
		799.8	42.44	-3.56	46	43.21	27.8	3.35	31.92	100	96	P	H
													H
													H
													H
													H
													H
													H
		31.08	36.15	-3.85	40	42.05	25.26	0.67	31.83	100	225	P	V
		120.72	29.23	-14.27	43.5	42.09	17.64	1.28	31.78	-	-	P	V
		250.05	36.56	-9.44	46	47.89	18.5	1.94	31.77	-	-	P	V
		549.9	33.19	-12.81	46	37.89	24.5	2.77	31.97	-	-	P	V
		799.8	39.41	-6.59	46	40.18	27.8	3.35	31.92	-	-	P	V
		874.7	36.02	-9.98	46	35.38	28.75	3.44	31.55	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5713.8	50.6	-23.4	74	42.49	32.29	9.39	33.57	294	79	P	H
		5724.52	65.45	-12.85	78.3	57.27	32.31	9.44	33.57	294	79	P	H
		5714.44	43.88	-10.12	54	35.77	32.29	9.39	33.57	294	79	A	H
	*	5745	104.78	-	-	96.57	32.34	9.44	33.57	294	79	P	H
	*	5745	97.93	-	-	89.72	32.34	9.44	33.57	294	79	A	H
													H
													H
													H
		5715	54.09	-19.91	74	45.98	32.29	9.39	33.57	105	61	P	V
		5722.2	67.62	-10.68	78.3	59.44	32.31	9.44	33.57	105	61	P	V
		5714.36	45.44	-8.56	54	37.33	32.29	9.39	33.57	105	61	A	V
	*	5745	108.15	-	-	99.94	32.34	9.44	33.57	105	61	P	V
	*	5745	100.79	-	-	92.58	32.34	9.44	33.57	105	61	A	V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5689.48	48.1	-25.9	74	40	32.27	9.39	33.56	306	80	P	H
		5723.4	47.88	-30.42	78.3	39.7	32.31	9.44	33.57	306	80	P	H
		5700.6	40.13	-13.87	54	32.01	32.29	9.39	33.56	306	80	A	H
	*	5785	104.56	-	-	96.27	32.39	9.49	33.59	306	80	P	H
	*	5785	97.29	-	-	89	32.39	9.49	33.59	306	80	A	H
		5858.08	47.35	-30.95	78.3	38.92	32.51	9.54	33.62	306	80	P	H
		5873.6	48.32	-25.68	74	39.87	32.53	9.54	33.62	306	80	P	H
		5871.28	40.29	-13.71	54	31.84	32.53	9.54	33.62	306	80	A	H
		5694.84	49.4	-24.6	74	41.3	32.27	9.39	33.56	111	63	P	V
		5721.56	50.54	-27.76	78.3	42.36	32.31	9.44	33.57	111	63	P	V
		5698.44	41.45	-12.55	54	33.35	32.27	9.39	33.56	111	63	A	V
	*	5785	107.98	-	-	99.69	32.39	9.49	33.59	111	63	P	V
	*	5785	101.52	-	-	93.23	32.39	9.49	33.59	111	63	A	V
		5850.4	49.91	-28.39	78.3	41.5	32.48	9.54	33.61	111	63	P	V
		5873.52	50.23	-23.77	74	41.78	32.53	9.54	33.62	111	63	P	V
		5862.16	41.82	-12.18	54	33.39	32.51	9.54	33.62	111	63	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	104.38	-	-	96	32.46	9.52	33.6	274	334	P	H
	*	5825	97.59	-	-	89.21	32.46	9.52	33.6	274	334	A	H
		5850.16	54.81	-23.49	78.3	46.4	32.48	9.54	33.61	274	334	P	H
		5875.84	48.93	-25.07	74	40.48	32.53	9.54	33.62	274	334	P	H
		5860	42.66	-11.34	54	34.23	32.51	9.54	33.62	274	334	A	H
													H
													H
													H
	*	5825	107.41	-	-	99.03	32.46	9.52	33.6	106	61	P	V
	*	5825	103.94	-	-	95.56	32.46	9.52	33.6	106	61	A	V
		5850.24	60.96	-17.34	78.3	52.55	32.48	9.54	33.61	106	61	P	V
		5861.84	52.13	-21.87	74	43.7	32.51	9.54	33.62	106	61	P	V
		5860.24	44.04	-9.96	54	35.61	32.51	9.54	33.62	106	61	A	V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	42.26	-31.74	74	54.14	39.91	13.95	65.74	100	0	P	H
		17235	53.85	-20.15	74	59.98	41	16.95	64.08	233	244	P	H
		17235	46.22	-7.78	54	52.35	41	16.95	64.08	233	244	A	H
													H
		11490	44.53	-29.47	74	56.41	39.91	13.95	65.74	100	0	P	V
		17235	54.47	-19.53	74	60.6	41	16.95	64.08	397	224	P	V
		17235	47.92	-6.08	54	54.05	41	16.95	64.08	397	224	A	V
													V
802.11n HT20 CH 157 5785MHz		11570	42.17	-31.83	74	54.07	39.76	14	65.66	100	0	P	H
		17355	54.07	-19.93	74	59.91	41.35	17.03	64.22	304	70	P	H
		17355	45.51	-8.49	54	51.35	41.35	17.03	64.22	304	70	A	H
													H
		11570	43.5	-30.5	74	55.4	39.76	14	65.66	100	0	P	V
		17355	52.57	-21.43	74	58.41	41.35	17.03	64.22	235	243	P	V
		17355	44.68	-9.32	54	50.52	41.35	17.03	64.22	235	243	A	V
													V
802.11n HT20 CH 165 5825MHz		11650	43.69	-30.31	74	55.64	39.62	14.05	65.62	100	0	P	H
		17475	49.53	-24.47	74	55.09	41.7	17.1	64.36	100	0	P	H
													H
													H
		11650	44.94	-29.06	74	56.89	39.62	14.05	65.62	100	0	P	V
		17475	49.64	-24.36	74	55.2	41.7	17.1	64.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5709.48	61.2	-7.1	68.3	53.09	32.29	9.39	33.57	269	255	P	H
		5724.52	68.24	-10.06	78.3	60.06	32.31	9.44	33.57	269	255	P	H
	*	5755	102.28	-	-	94.05	32.36	9.44	33.57	269	255	P	H
		5755	95.28	-	-	87.05	32.36	9.44	33.57	269	255	A	H
		5855.52	47.85	-30.45	78.3	39.41	32.51	9.54	33.61	269	255	P	H
		5867.2	48.24	-20.06	68.3	39.81	32.51	9.54	33.62	269	255	P	H
													H
													H
		5710.92	64.16	-4.14	68.3	56.05	32.29	9.39	33.57	256	64	P	V
		5723.56	72.67	-5.63	78.3	64.49	32.31	9.44	33.57	256	64	P	V
	*	5755	105.72	-	-	97.49	32.36	9.44	33.57	256	64	P	V
		5755	98.56	-	-	90.33	32.36	9.44	33.57	256	64	A	V
		5851.6	49.04	-29.26	78.3	40.63	32.48	9.54	33.61	256	64	P	V
		5863.6	50.6	-17.7	68.3	42.17	32.51	9.54	33.62	256	64	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5694.2	49.6	-24.4	74	41.5	32.27	9.39	33.56	307	79	P	H
		5718.84	47.93	-30.37	78.3	39.8	32.31	9.39	33.57	307	79	P	H
		5687.56	40.52	-13.48	54	32.42	32.27	9.39	33.56	307	79	A	H
	*	5795	101.33	-	-	93.02	32.41	9.49	33.59	307	79	P	H
	*	5795	94.43	-	-	86.12	32.41	9.49	33.59	307	79	A	H
		5852.88	55.66	-22.64	78.3	47.25	32.48	9.54	33.61	307	79	P	H
		5861.28	52.4	-21.6	74	43.97	32.51	9.54	33.62	307	79	P	H
		5863.04	41.53	-12.47	54	33.1	32.51	9.54	33.62	307	79	A	H
		5701.56	49.58	-24.42	74	41.46	32.29	9.39	33.56	254	66	P	V
		5724.28	50.32	-27.98	78.3	42.14	32.31	9.44	33.57	254	66	P	V
		5701.32	41.83	-12.17	54	33.71	32.29	9.39	33.56	254	66	A	V
	*	5795	106.29	-	-	97.98	32.41	9.49	33.59	254	66	P	V
	*	5795	99.26	-	-	90.95	32.41	9.49	33.59	254	66	A	V
		5850.4	54.98	-23.32	78.3	46.57	32.48	9.54	33.61	254	66	P	V
		5860.24	56.71	-17.29	74	48.28	32.51	9.54	33.62	254	66	P	V
		5860	45.99	-8.01	54	37.56	32.51	9.54	33.62	254	66	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	41.72	-32.28	74	53.57	39.9	13.95	65.7	100	0	P	H
		17265	51.08	-22.92	74	57.15	41.1	16.95	64.12	281	72	P	H
		17265	44.99	-9.01	54	51.06	41.1	16.95	64.12	281	72	A	H
													H
		6220	55.87	-12.43	68.3	46.53	33.31	9.83	33.8	213	110	P	V
		6220	47.52	-6.48	54	38.18	33.31	9.83	33.8	213	110	A	V
		11510	42.61	-31.39	74	54.46	39.9	13.95	65.7	100	0	P	V
		17265	50.85	-23.15	74	56.92	41.1	16.95	64.12	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	42.94	-31.06	74	54.86	39.73	14	65.65	100	0	P	H
		17385	51.93	-22.07	74	57.71	41.45	17.03	64.26	100	0	P	H
		17385	42.46	-11.54	54	48.24	41.45	17.03	64.26	100	0	A	H
													H
		6256	57.11	-16.89	74	47.67	33.4	9.85	33.81	213	119	P	V
		6256	47.95	-6.05	54	38.51	33.4	9.85	33.81	213	119	A	V
		11590	42.84	-31.16	74	54.76	39.73	14	65.65	100	0	P	V
		17385	50.45	-23.55	74	56.23	41.45	17.03	64.26	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		5713.24	52.43	-21.57	74	44.32	32.29	9.39	33.57	332	221	P	H
		5724.44	67.11	-11.19	78.3	58.93	32.31	9.44	33.57	332	221	P	H
		5714.92	42.61	-11.39	54	34.5	32.29	9.39	33.57	332	221	A	H
	*	5745	104.08	-	-	95.87	32.34	9.44	33.57	332	221	P	H
	*	5745	98.09	-	-	89.88	32.34	9.44	33.57	332	221	A	H
													H
													H
													H
		5714.68	57.05	-16.95	74	48.94	32.29	9.39	33.57	255	65	P	V
		5724.36	74.19	-4.11	78.3	66.01	32.31	9.44	33.57	255	65	P	V
		5715	48.44	-5.56	54	40.33	32.29	9.39	33.57	255	65	A	V
	*	5745	110.81	-	-	102.6	32.34	9.44	33.57	255	65	P	V
	*	5745	103.45	-	-	95.24	32.34	9.44	33.57	255	65	A	V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 157 5785MHz		5702.92	48.46	-25.54	74	40.34	32.29	9.39	33.56	307	79	P	H
		5720.2	48.04	-30.26	78.3	39.91	32.31	9.39	33.57	307	79	P	H
		5702.68	39.82	-14.18	54	31.7	32.29	9.39	33.56	307	79	A	H
	*	5785	106.21	-	-	97.92	32.39	9.49	33.59	307	79	P	H
	*	5785	99.42	-	-	91.13	32.39	9.49	33.59	307	79	A	H
		5856.32	47.81	-30.49	78.3	39.37	32.51	9.54	33.61	307	79	P	H
		5871.6	49.14	-24.86	74	40.69	32.53	9.54	33.62	307	79	P	H
		5860.16	39.82	-14.18	54	31.39	32.51	9.54	33.62	307	79	A	H
		5710.76	49.31	-24.69	74	41.2	32.29	9.39	33.57	377	43	P	V
		5718.6	49.1	-29.2	78.3	40.97	32.31	9.39	33.57	377	43	P	V
		5711.88	40.81	-13.19	54	32.7	32.29	9.39	33.57	377	43	A	V
	*	5785	110.97	-	-	102.68	32.39	9.49	33.59	377	43	P	V
	*	5785	103.75	-	-	95.46	32.39	9.49	33.59	377	43	A	V
		5854.32	49.46	-28.84	78.3	41.02	32.51	9.54	33.61	377	43	P	V
		5874.64	49.08	-24.92	74	40.63	32.53	9.54	33.62	377	43	P	V
		5873.84	40.98	-13.02	54	32.53	32.53	9.54	33.62	377	43	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz	*	5825	104.97	-	-	96.59	32.46	9.52	33.6	344	99	P	H
	*	5825	97.64	-	-	89.26	32.46	9.52	33.6	344	99	A	H
		5850.08	59.83	-18.47	78.3	51.42	32.48	9.54	33.61	344	99	P	H
		5864.32	56.46	-17.54	74	48.03	32.51	9.54	33.62	344	99	P	H
		5860.32	42.39	-11.61	54	33.96	32.51	9.54	33.62	344	99	A	H
													H
													H
													H
	*	5825	110.4	-	-	102.02	32.46	9.52	33.6	338	38	P	V
	*	5825	103.39	-	-	95.01	32.46	9.52	33.6	338	38	A	V
		5850.08	64.17	-14.13	78.3	55.76	32.48	9.54	33.61	338	38	P	V
		5860.24	55.82	-18.18	74	47.39	32.51	9.54	33.62	338	38	P	V
		5860.24	46.52	-7.48	54	38.09	32.51	9.54	33.62	338	38	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		11490	43.14	-30.86	74	55.02	39.91	13.95	65.74	100	0	P	H
		17235	58.26	-15.74	74	64.39	41	16.95	64.08	400	239	P	H
		17235	46.97	-7.03	54	53.1	41	16.95	64.08	400	239	A	H
													H
		11490	43.58	-30.42	74	55.46	39.91	13.95	65.74	100	0	P	V
		17235	58.84	-15.16	74	64.97	41	16.95	64.08	390	53	P	V
		17235	47.57	-6.43	54	53.7	41	16.95	64.08	390	53	A	V
													V
802.11ac VHT20 CH 157 5785MHz		11570	42.56	-31.44	74	54.46	39.76	14	65.66	100	0	P	H
		17355	58.63	-15.37	74	64.47	41.35	17.03	64.22	392	240	P	H
		17355	46.96	-7.04	54	52.8	41.35	17.03	64.22	392	240	A	H
													H
		11570	43.93	-30.07	74	55.83	39.76	14	65.66	100	0	P	V
		17355	58.66	-15.34	74	64.5	41.35	17.03	64.22	400	183	P	V
		17355	46.39	-7.61	54	52.23	41.35	17.03	64.22	400	183	A	V
													V
802.11ac VHT20 CH 165 5825MHz		11650	43.21	-30.79	74	55.16	39.62	14.05	65.62	100	0	P	H
		17475	56.09	-17.91	74	61.65	41.7	17.1	64.36	398	47	P	H
		17475	44.56	-9.44	54	50.12	41.7	17.1	64.36	398	47	A	H
													H
		11650	45.85	-28.15	74	57.8	39.62	14.05	65.62	100	0	P	V
		17475	55.17	-18.83	74	60.73	41.7	17.1	64.36	392	183	P	V
		17475	44.51	-9.49	54	50.07	41.7	17.1	64.36	392	183	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5711.16	63.96	-4.34	68.3	55.85	32.29	9.39	33.57	211	21	P	H
		5724.6	73.13	-5.17	78.3	64.95	32.31	9.44	33.57	211	21	P	H
	*	5755	104.52	-	-	96.29	32.36	9.44	33.57	211	21	P	H
		5755	96.16	-	-	87.93	32.36	9.44	33.57	211	21	A	H
		5855.68	50.16	-28.14	78.3	41.72	32.51	9.54	33.61	211	21	P	H
		5878.8	49.46	-18.84	68.3	41.01	32.53	9.54	33.62	211	21	P	H
													H
													H
		5713.48	66.59	-1.71	68.3	58.48	32.29	9.39	33.57	199	313	P	V
		5724.68	73.37	-4.93	78.3	65.19	32.31	9.44	33.57	199	313	P	V
	*	5755	107.71	-	-	99.48	32.36	9.44	33.57	199	313	P	V
		5755	100.9	-	-	92.67	32.36	9.44	33.57	199	313	A	V
		5855.2	48.89	-29.41	78.3	40.45	32.51	9.54	33.61	199	313	P	V
		5876.64	49.64	-18.66	68.3	41.19	32.53	9.54	33.62	199	313	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5713.48	48.86	-25.14	74	40.75	32.29	9.39	33.57	290	75	P	H
		5718.04	49.53	-28.77	78.3	41.4	32.31	9.39	33.57	290	75	P	H
		5687.8	40.63	-13.37	54	32.53	32.27	9.39	33.56	290	75	A	H
	*	5795	103.27	-	-	94.96	32.41	9.49	33.59	290	75	P	H
	*	5795	96.76	-	-	88.45	32.41	9.49	33.59	290	75	A	H
		5850.96	53.24	-25.06	78.3	44.83	32.48	9.54	33.61	290	75	P	H
		5863.12	52.45	-21.55	74	44.02	32.51	9.54	33.62	290	75	P	H
		5863.6	42.61	-11.39	54	34.18	32.51	9.54	33.62	290	75	A	H
		5708.84	50.21	-23.79	74	42.1	32.29	9.39	33.57	346	31	P	V
		5721	51.64	-26.66	78.3	43.51	32.31	9.39	33.57	346	31	P	V
		5711.08	42.29	-11.71	54	34.18	32.29	9.39	33.57	346	31	A	V
	*	5795	109.67	-	-	101.36	32.41	9.49	33.59	346	31	P	V
	*	5795	102.16	-	-	93.85	32.41	9.49	33.59	346	31	A	V
		5851.04	58.25	-20.05	78.3	49.84	32.48	9.54	33.61	346	31	P	V
		5866.72	54.26	-19.74	74	45.83	32.51	9.54	33.62	346	31	P	V
		5861.44	46.11	-7.89	54	37.68	32.51	9.54	33.62	346	31	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		11510	42.55	-31.45	74	54.4	39.9	13.95	65.7	100	0	P	H
		17265	56.98	-17.02	74	63.05	41.1	16.95	64.12	395	240	P	H
		17265	45.43	-8.57	54	51.5	41.1	16.95	64.12	395	240	A	H
													H
		5290	52.97	-21.03	74	45.67	31.74	9.04	33.48	100	8	P	V
		5290	48.9	-5.1	54	41.6	31.74	9.04	33.48	100	8	A	V
		6220	55.06	-18.94	74	45.72	33.31	9.83	33.8	174	323	P	V
		6220	50.98	-3.02	54	41.64	33.31	9.83	33.8	174	323	A	V
		11510	42.28	-31.72	74	54.13	39.9	13.95	65.7	100	0	P	V
		17265	56.76	-17.24	74	62.83	41.1	16.95	64.12	400	231	P	V
		17265	45.25	-8.75	54	51.32	41.1	16.95	64.12	400	231	A	V
802.11ac VHT40 CH 159 5795MHz		11590	42.86	-31.14	74	54.78	39.73	14	65.65	100	0	P	H
		17385	55.02	-18.98	74	60.8	41.45	17.03	64.26	397	242	P	H
		17385	46.41	-7.59	54	52.19	41.45	17.03	64.26	397	242	A	H
													H
		5332	54.24	-19.76	74	46.84	31.8	9.08	33.48	186	29	P	V
		5332	49.18	-4.82	54	41.78	31.8	9.08	33.48	186	29	A	V
		6256	56.73	-17.27	74	47.29	33.4	9.85	33.81	298	32	P	V
		6256	51.09	-2.91	54	41.65	33.4	9.85	33.81	298	32	A	V
		11590	44.13	-29.87	74	56.05	39.73	14	65.65	100	0	P	V
		17385	54.52	-19.48	74	60.3	41.45	17.03	64.26	400	230	P	V
		17385	45.76	-8.24	54	51.54	41.45	17.03	64.26	400	230	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5712.92	58.3	-10	68.3	50.19	32.29	9.39	33.57	209	36	P	H
		5724.84	65.17	-13.13	78.3	56.99	32.31	9.44	33.57	209	36	P	H
	*	5775	99.94	-	-	91.64	32.39	9.49	33.58	209	36	P	H
		5775	92.72	-	-	84.42	32.39	9.49	33.58	209	36	A	H
		5854.72	58.52	-19.78	78.3	50.08	32.51	9.54	33.61	209	36	P	H
		5863.44	58.93	-9.37	68.3	50.5	32.51	9.54	33.62	209	36	P	H
													H
													H
		5710.12	64.11	-4.19	68.3	56	32.29	9.39	33.57	210	316	P	V
		5724.6	67.87	-10.43	78.3	59.69	32.31	9.44	33.57	210	316	P	V
	*	5775	103.47	-	-	95.17	32.39	9.49	33.58	210	316	P	V
		5775	96.23	-	-	87.93	32.39	9.49	33.58	210	316	A	V
		5851.52	62.83	-15.47	78.3	54.42	32.48	9.54	33.61	210	316	P	V
		5861.28	62.21	-6.09	68.3	53.78	32.51	9.54	33.62	210	316	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	41.81	-32.19	74	53.71	39.8	13.97	65.67	100	0	P	H
		17325	42.94	-31.06	74	48.87	41.25	17	64.18	100	0	P	H
													H
													H
		5326	55.76	-18.24	74	48.38	31.78	9.08	33.48	100	47	P	V
		5326	50.24	-3.76	54	42.86	31.78	9.08	33.48	100	47	A	V
		6220	58.09	-15.91	74	48.75	33.31	9.83	33.8	360	335	P	V
		6220	52.95	-1.05	54	43.61	33.31	9.83	33.8	360	335	A	V
		11550	41.44	-32.56	74	53.34	39.8	13.97	65.67	100	0	P	V
		17325	43.34	-30.66	74	49.27	41.25	17	64.18	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		90.48	24.16	-19.34	43.5	39.86	14.8	1.28	31.78	-	-	P	H
		200.1	25.3	-18.2	43.5	39.64	15.8	1.64	31.78	-	-	P	H
		250.05	36.67	-9.33	46	48	18.5	1.94	31.77	-	-	P	H
		447.7	32.21	-13.79	46	38.41	23.07	2.57	31.84	-	-	P	H
		720	38.9	-7.1	46	40.91	26.87	3.14	32.02	-	-	P	H
		799.8	42.65	-3.35	46	43.42	27.8	3.35	31.92	100	142	P	H
													H
													H
													H
													H
													H
													H
		31.62	36.51	-3.49	40	42.95	24.72	0.67	31.83	100	321	P	V
		115.05	34.49	-9.01	43.5	47.62	17.37	1.28	31.78	-	-	P	V
		250.05	33.16	-12.84	46	44.49	18.5	1.94	31.77	-	-	P	V
		540.1	36.42	-9.58	46	41.2	24.4	2.77	31.95	-	-	P	V
		624.8	37.58	-8.42	46	40.97	25.69	2.96	32.04	-	-	P	V
		874.7	38.22	-7.78	46	37.58	28.75	3.44	31.55	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



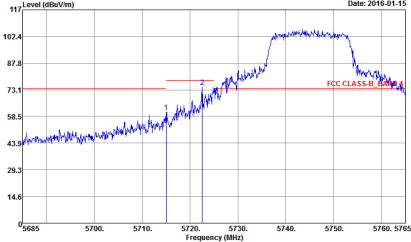
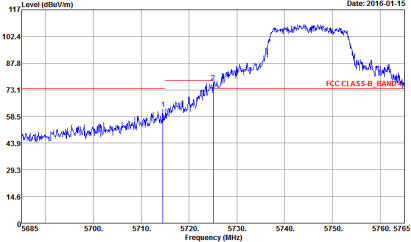
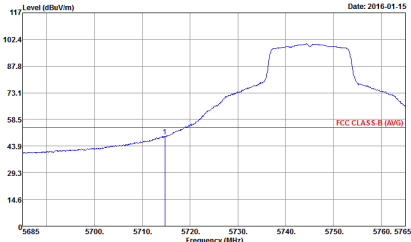
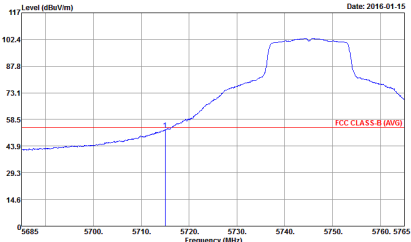
Appendix C. Radiated Spurious Emission Plots

Note symbol

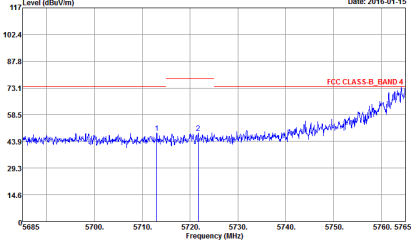
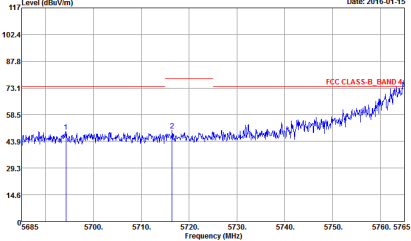
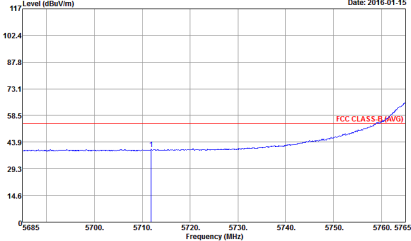
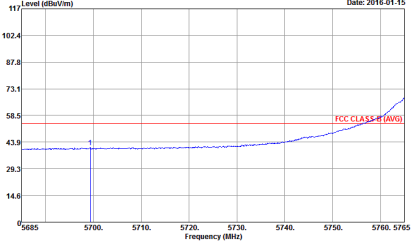
-L	Low channel location
-R	High channel location



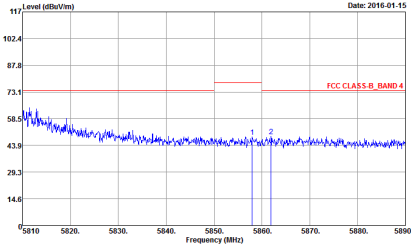
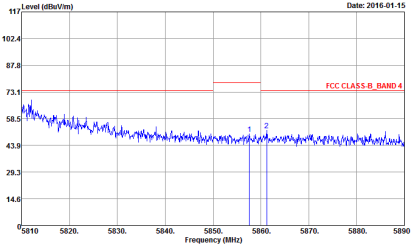
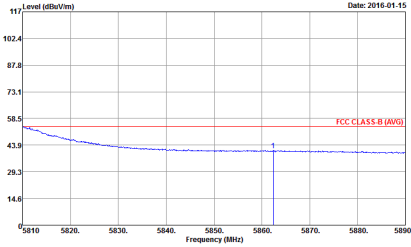
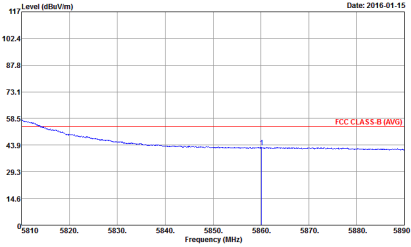
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B, BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 45	 Site : 03CH11-HY Condition : FCC CLASS-B, BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 45
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 45	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 45

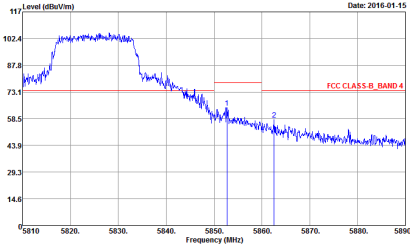
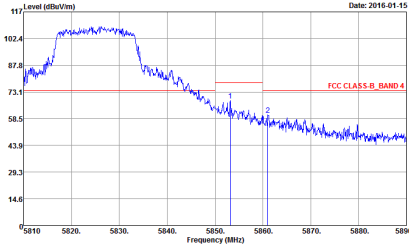
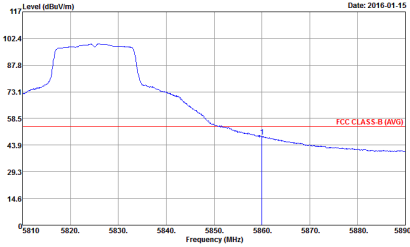
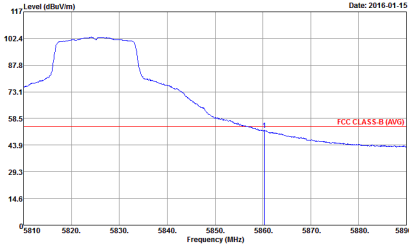


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 46	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 46
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 46	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 46



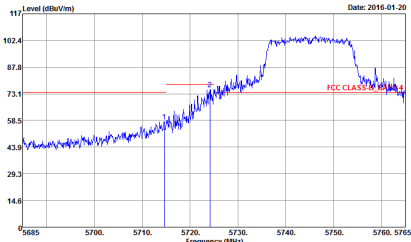
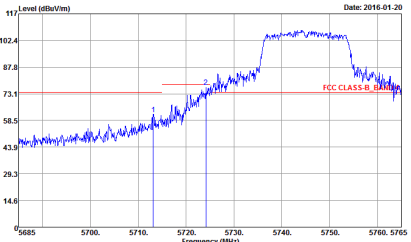
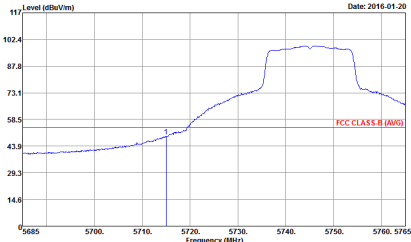
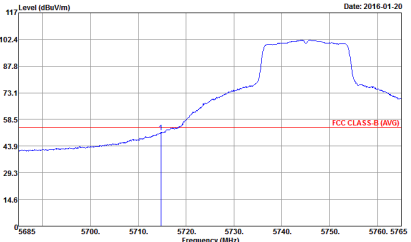
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 46	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 46
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 46	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 46



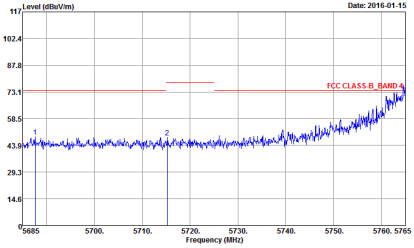
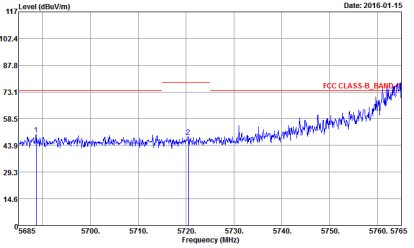
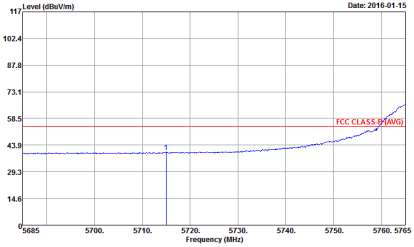
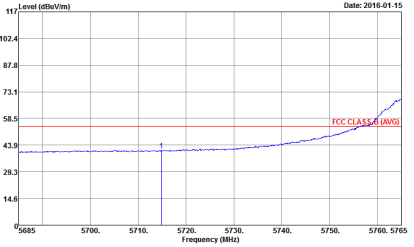
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 47	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 47
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 47	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 47



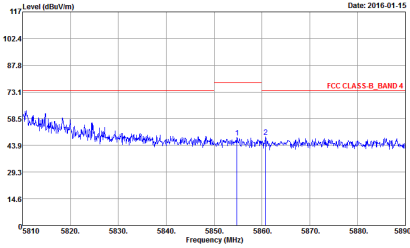
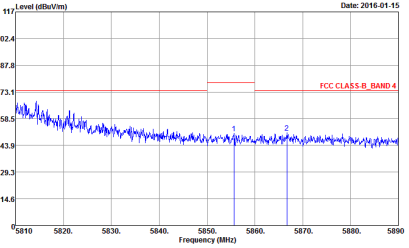
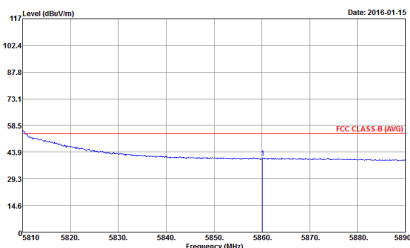
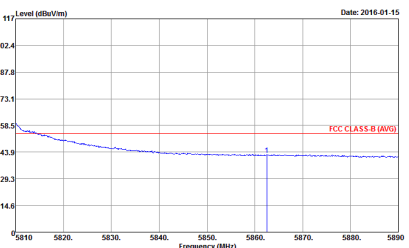
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 48	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 48
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 48	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 48

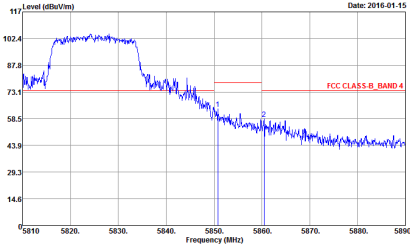
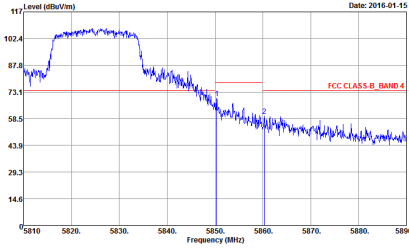
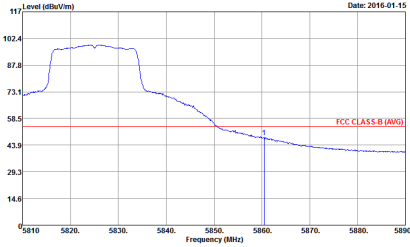
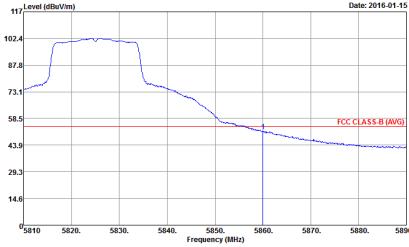


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 49	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 49
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 49	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 49



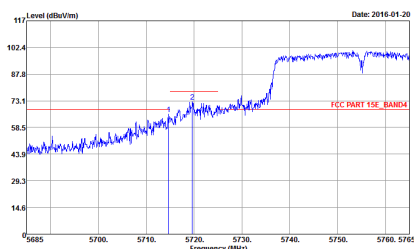
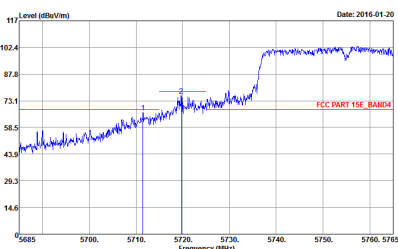
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 49	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 49
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 49	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 49



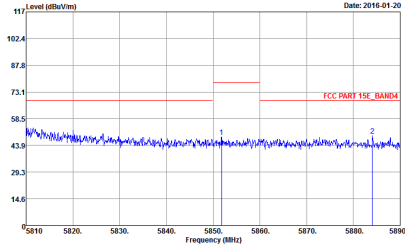
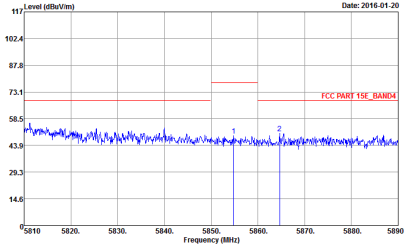
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 50	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 50
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 50	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 50



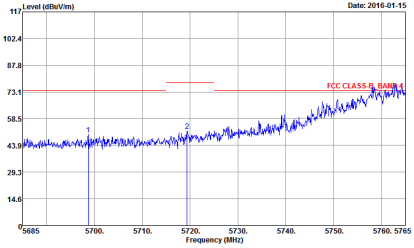
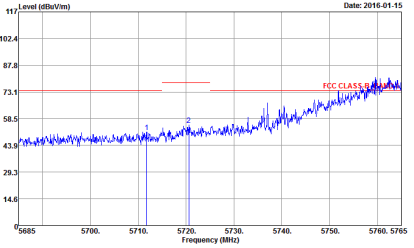
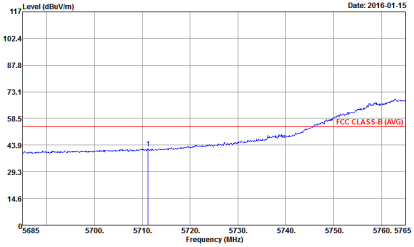
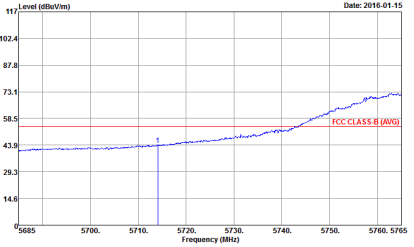
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 51 Setting : 28 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 51 Setting : 28 68.3_78.3

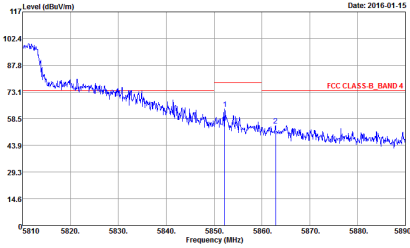
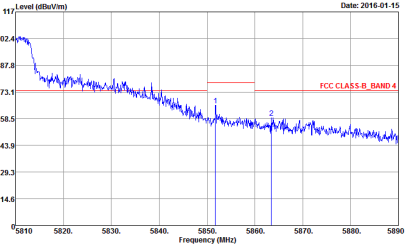
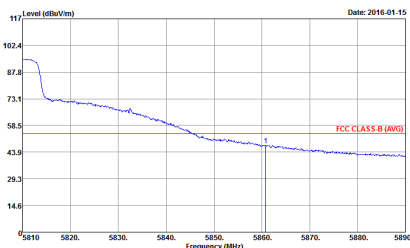
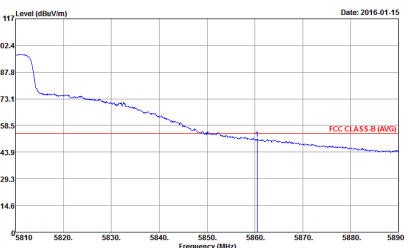


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 51 Setting : 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 51 Setting : 68.3_78.3



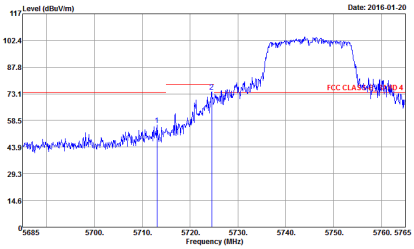
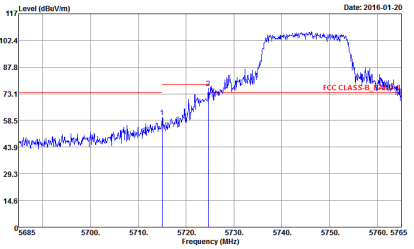
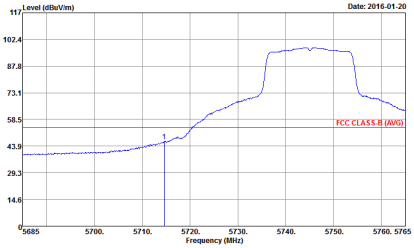
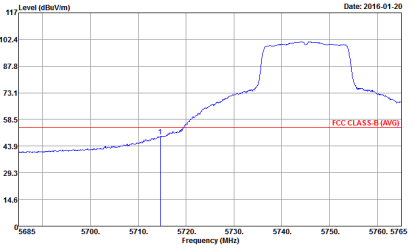
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - L	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5685 to 5765 MHz. Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 52 Setting : 32	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5685 to 5765 MHz. Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 52 Setting : 32
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5685 to 5765 MHz. Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 52 Setting : 32	 Level (dBuV/m) vs Frequency (MHz) plot for Vertical orientation. The plot shows a blue line representing the measured signal and a red line for the FCC CLASS-B limit. The signal is below the limit across the entire frequency range from 5685 to 5765 MHz. Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 52 Setting : 32



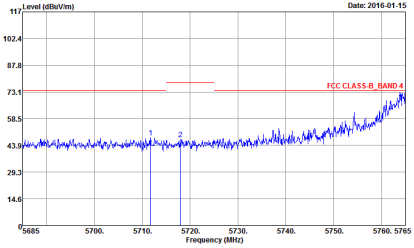
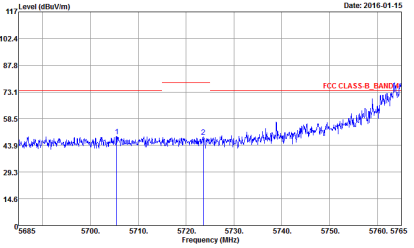
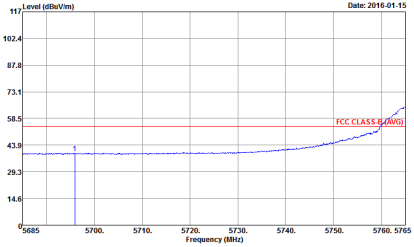
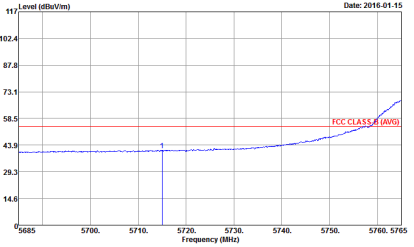
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 52 Setting : 32	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 52 Setting : 32
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 52 Setting : 32	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 52 Setting : 32



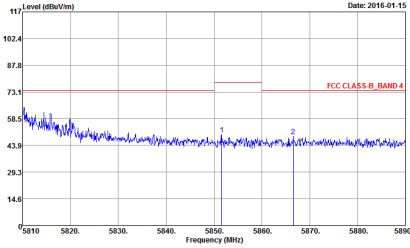
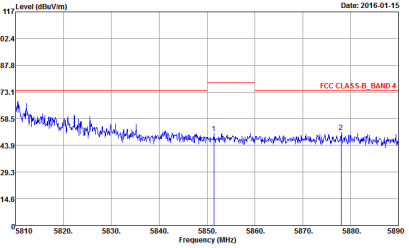
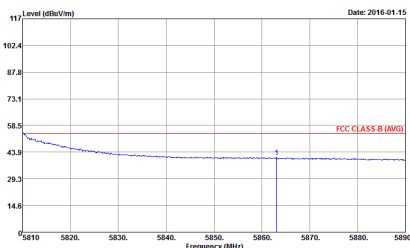
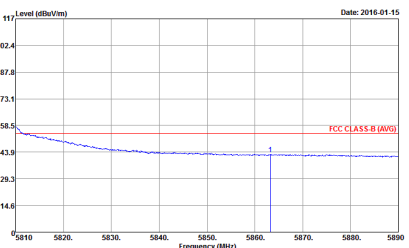
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 53 Setting : 31	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 53 Setting : 31
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 53 Setting : 31	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 53 Setting : 31

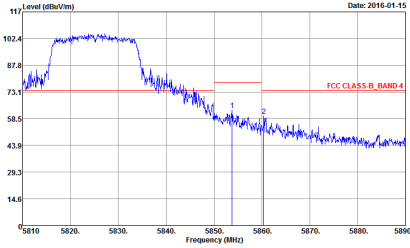
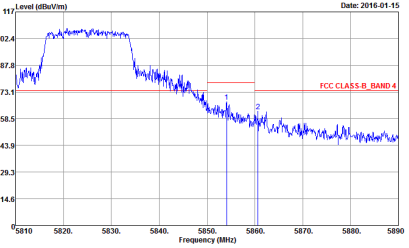
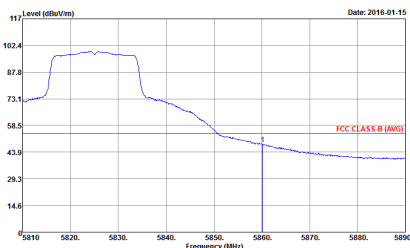
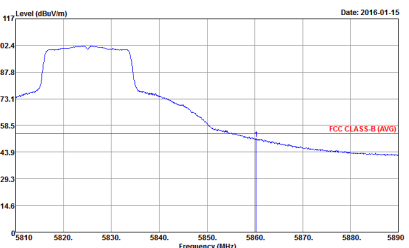


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 54	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 54
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 54	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 54



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 54	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 54
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 54	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 54



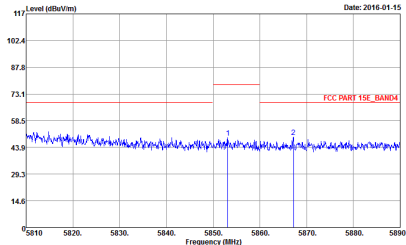
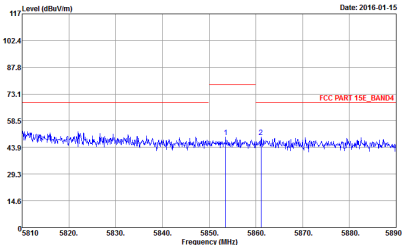
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 55	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 55
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 55	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 55



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 56 Setting : 28 68.3_78.3	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 56 Setting : 28 68.3_78.3

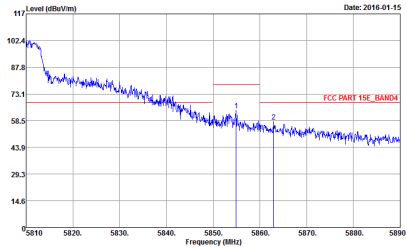
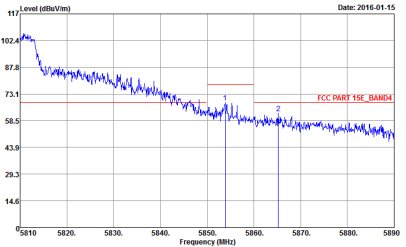


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 56 Setting : 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 56 Setting : 68.3_78.3



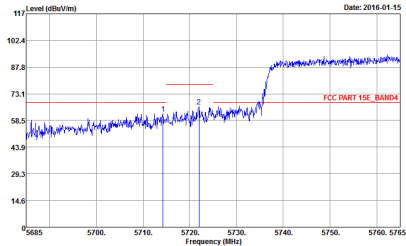
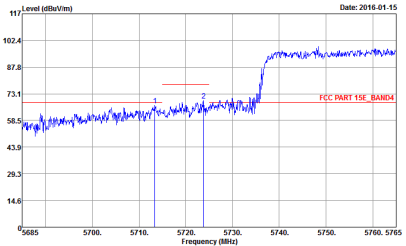
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 57 Setting : 68.3_78.3	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 57 Setting : 68.3_78.3



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 57 Setting : 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 57 Setting : 68.3_78.3



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

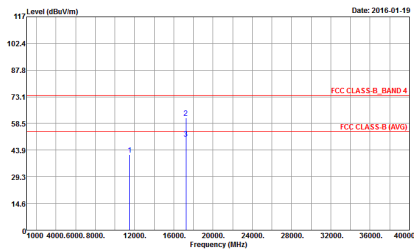
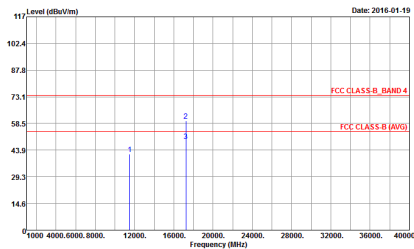
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 58 Setting : 25 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 58 Setting : 25 68.3_78.3



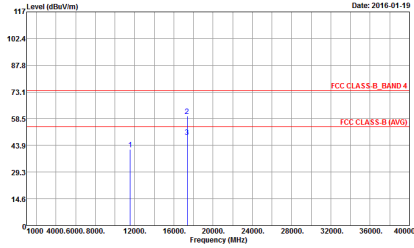
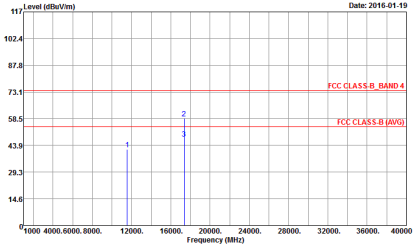
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz - R	
1	Horizontal	Vertical
Peak	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 58 Setting : 25 68.3_78.3	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 58 Setting : 25 68.3_78.3



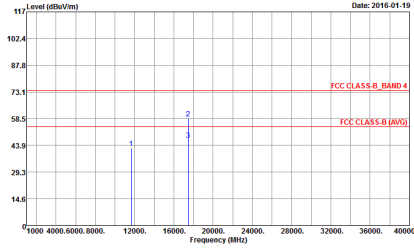
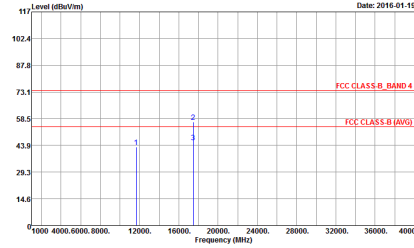
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 45	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 45



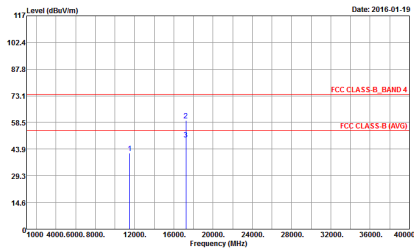
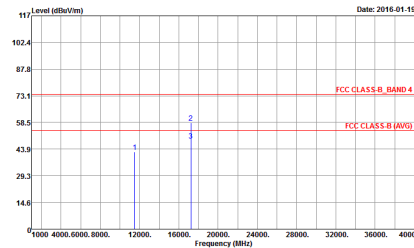
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 46	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 46



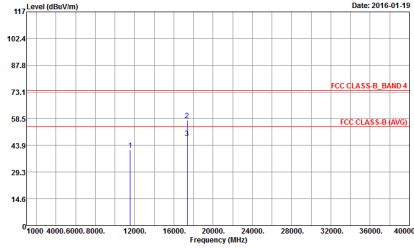
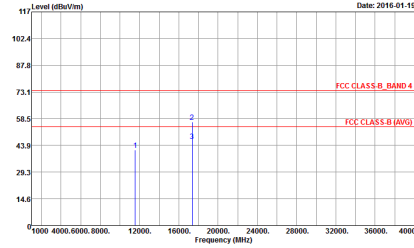
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 47	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 47



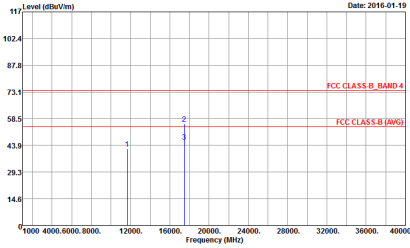
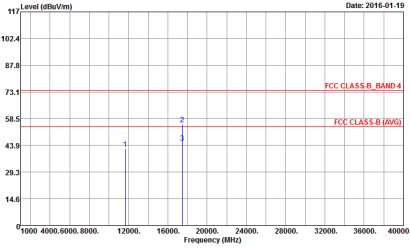
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 48	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 48



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 49	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 49



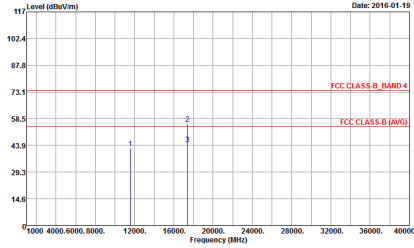
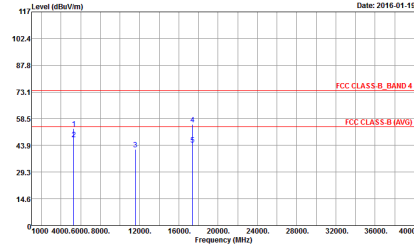
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 50	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 50



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-01-19 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 51	Level (dBu/m) Date: 2016-01-19 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 51



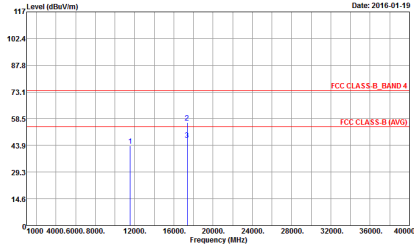
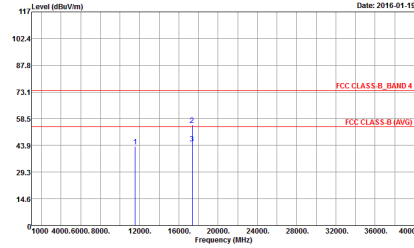
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 52	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 52



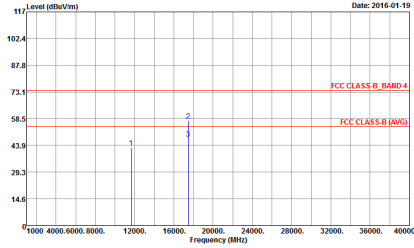
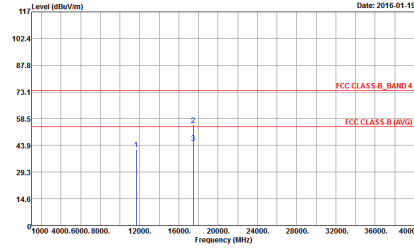
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 53	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 53



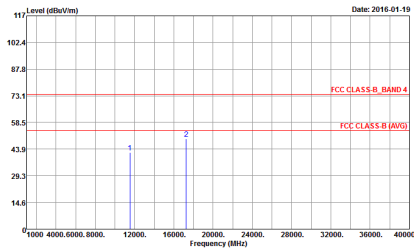
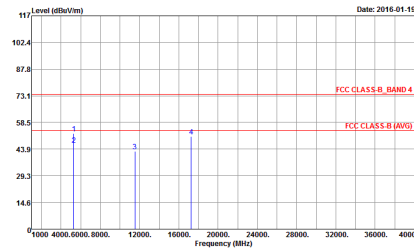
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 54	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 54



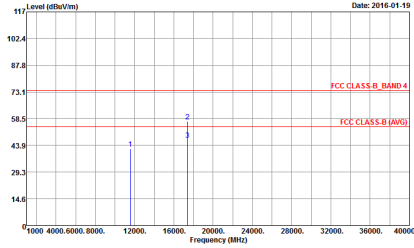
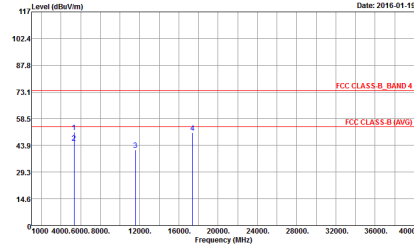
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 55	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 55



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

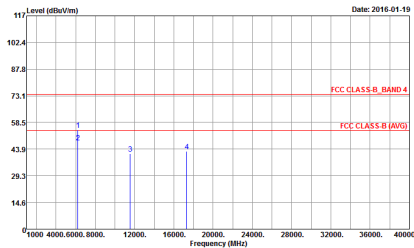
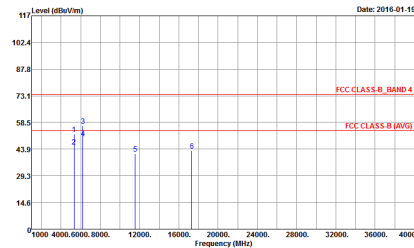
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 56	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 56



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 57	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : 5D1117 Mode : 57

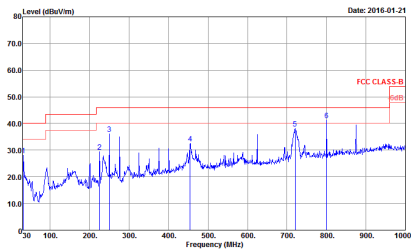
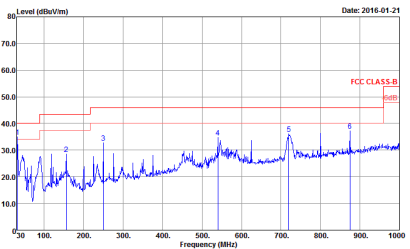


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 58	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 58

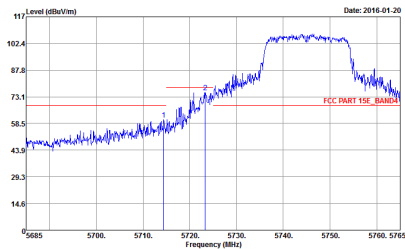
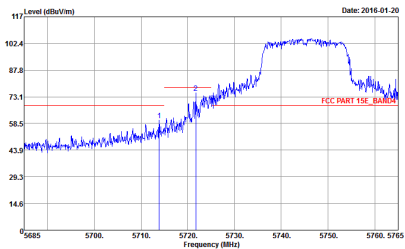


Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 109	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 VERTICAL Detector : Peak Project : 5D1117 Mode : 109

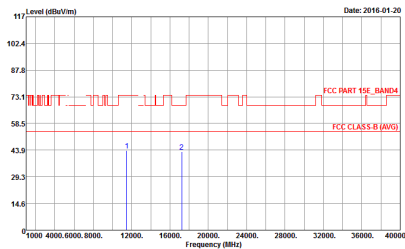
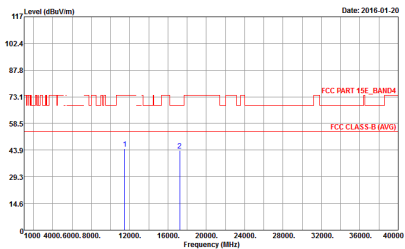


Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 60 Setting : 68.3_78.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 60 Setting : 68.3_78.3

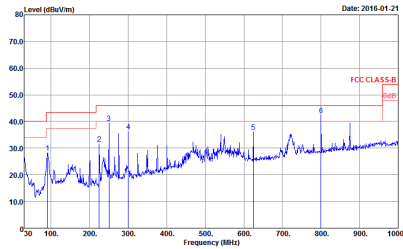
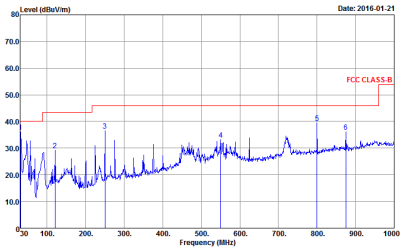


Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 60	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 60

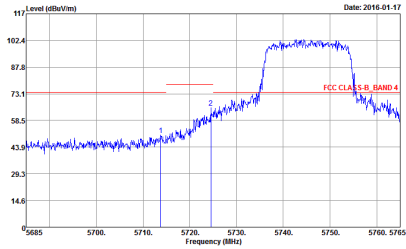
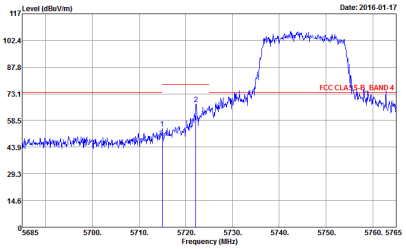
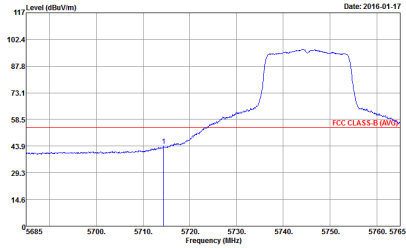
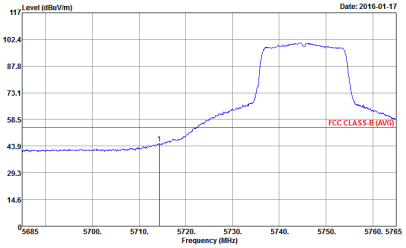


Emission below 1GHz
5GHz WIFI 802.11a (LF)

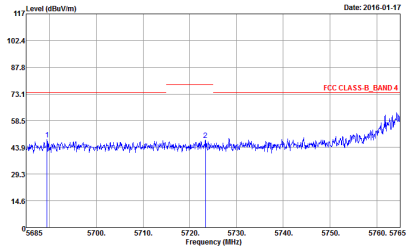
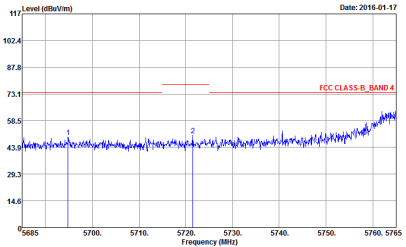
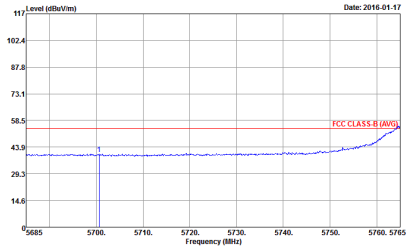
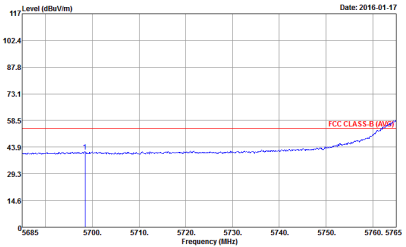
WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 111	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 VERTICAL Detector : Peak Project : 5D1117 Mode : 111



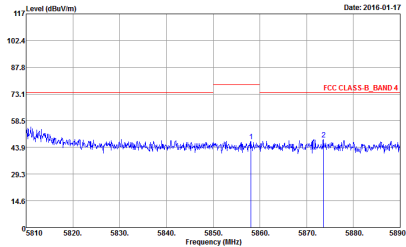
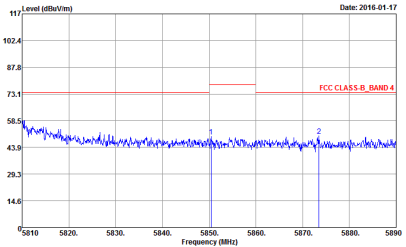
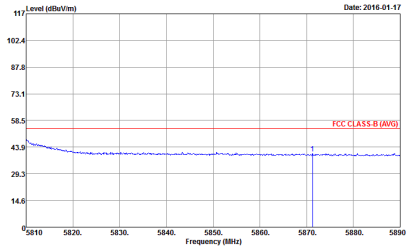
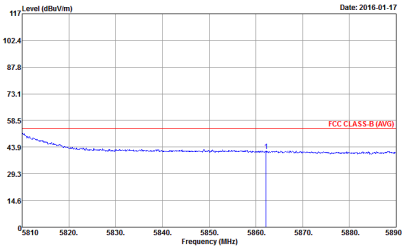
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 95	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 95
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 95	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 95

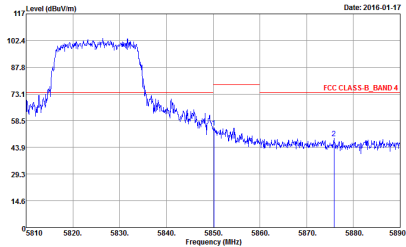
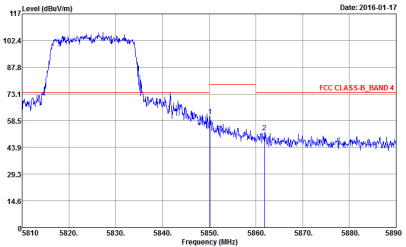
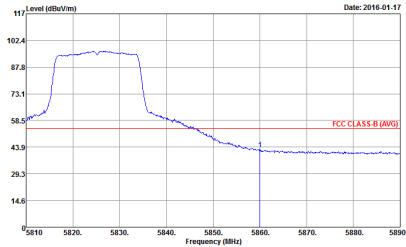
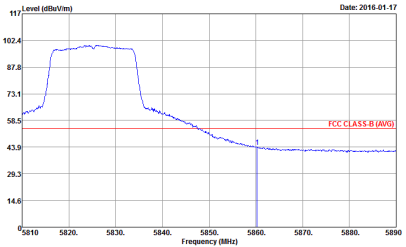


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 96	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 96
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 96	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 96



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 96	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 96
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 : 5D1117 Mode : 96	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 96



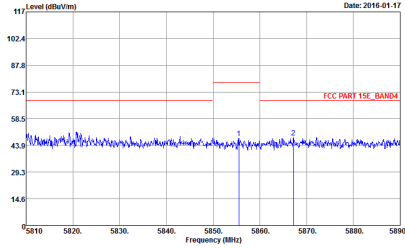
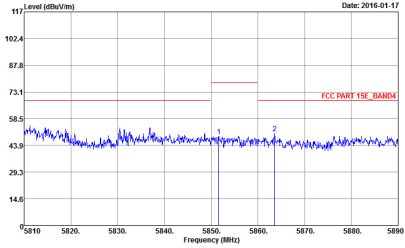
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 97	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 97
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 : 5D1117 Mode : 97	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 97



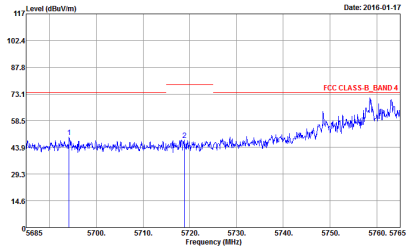
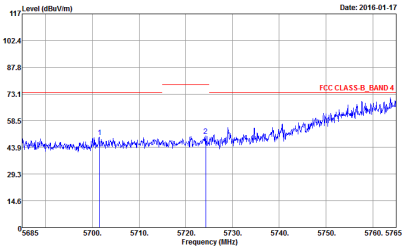
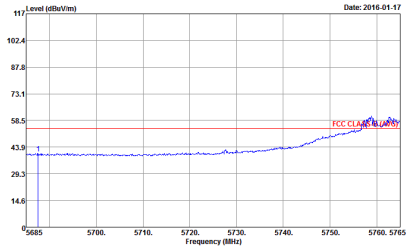
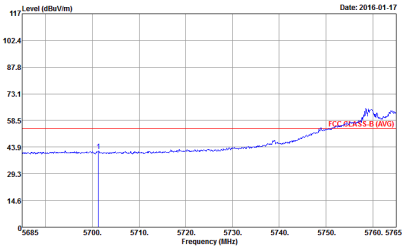
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - L	
1+2	Horizontal	Vertical
Peak	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 98	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 98

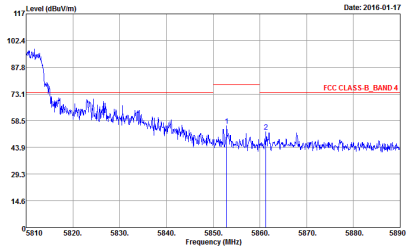
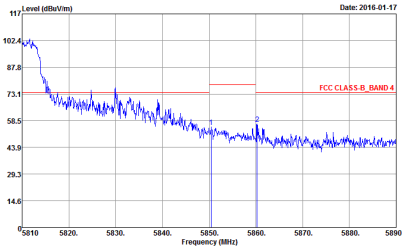
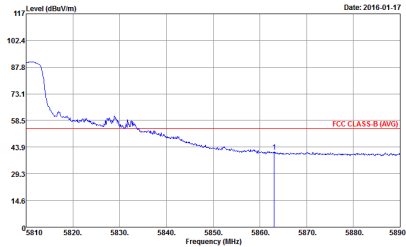
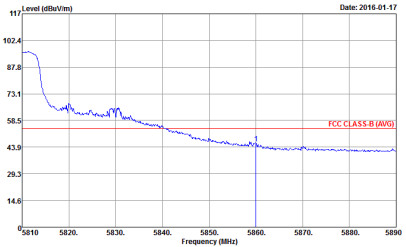


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 98	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 98



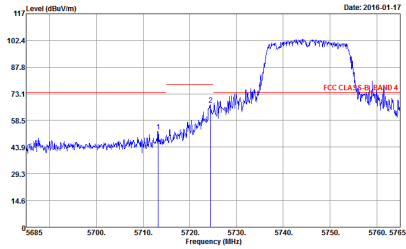
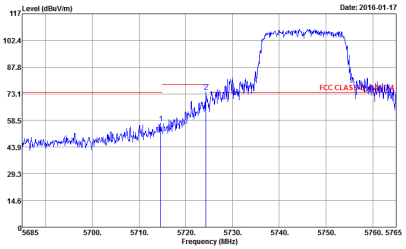
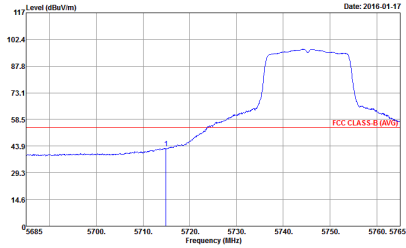
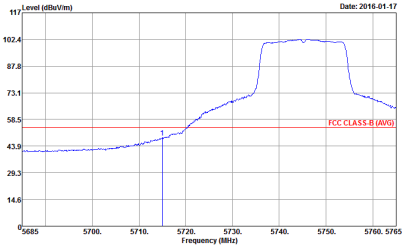
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99
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 : 5D1117 Mode : 99	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99



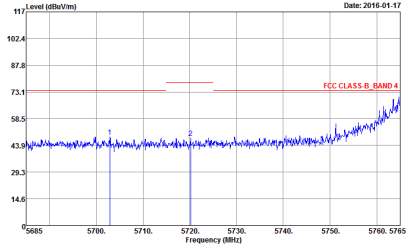
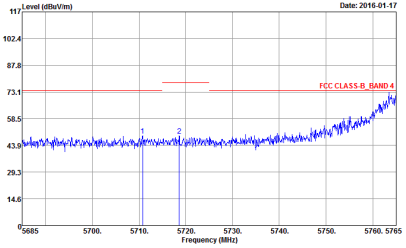
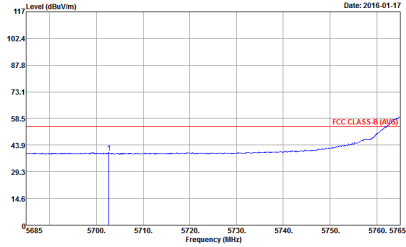
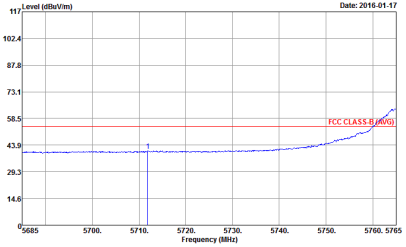
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99
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 : 5D1117 Mode : 99	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 99



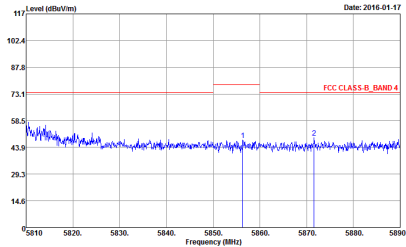
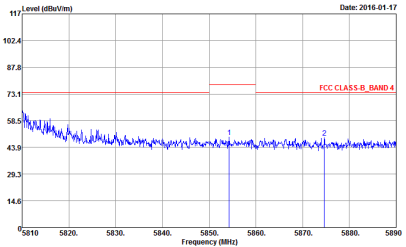
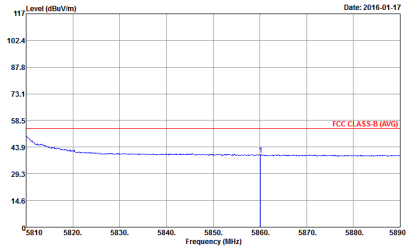
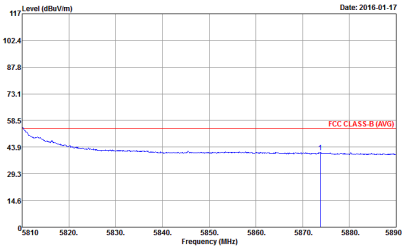
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 100	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 100
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 100	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 100

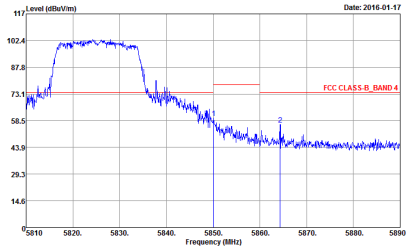
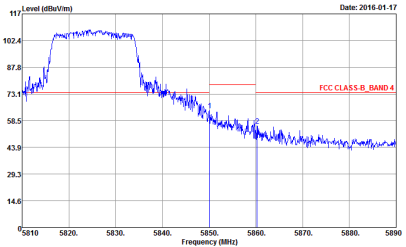
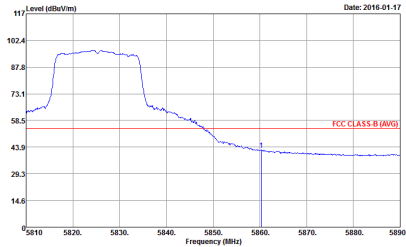
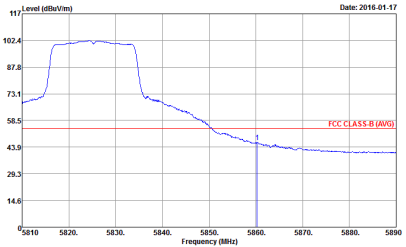


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : I01	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : I01
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : I01	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : I01



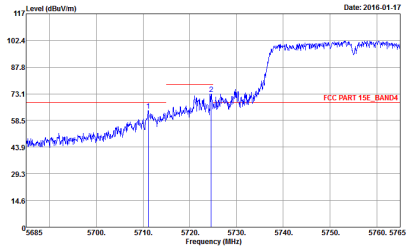
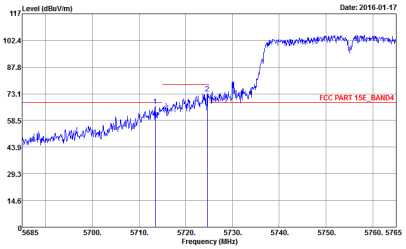
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 101	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 101
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 101	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 5D1117 Mode : 101



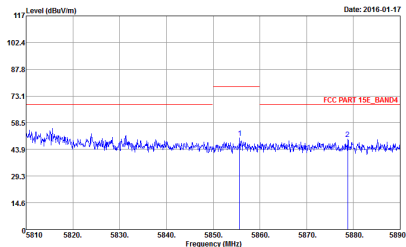
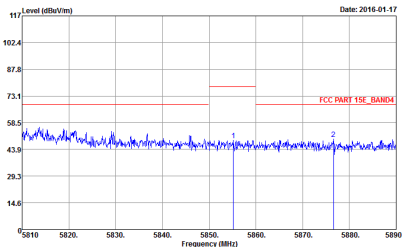
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 102	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 102
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 102	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 102



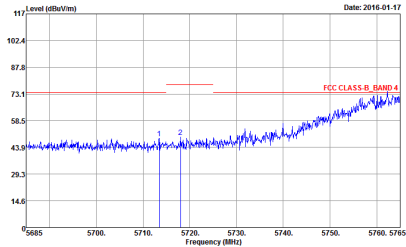
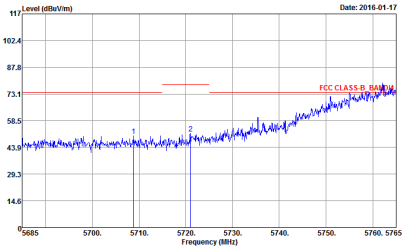
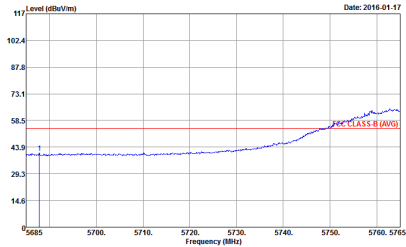
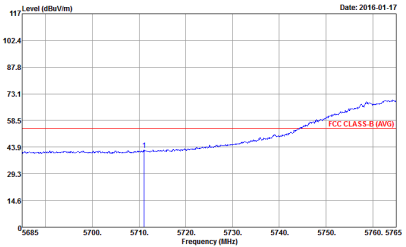
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 103 Power : 25 Power : 68.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 103 Power : 25 Power : 68.3

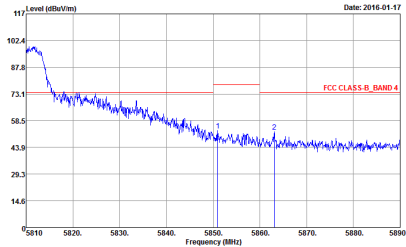
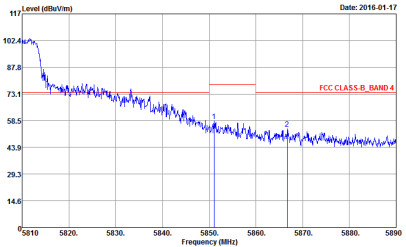
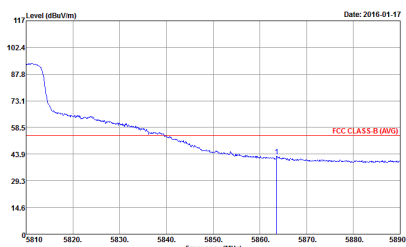
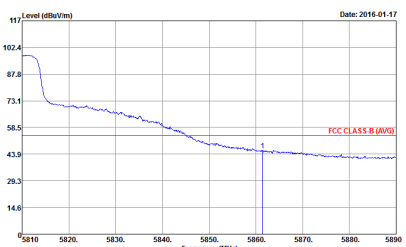


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 103 Power : 25 : 68.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 103 Power : 25 : 68.3



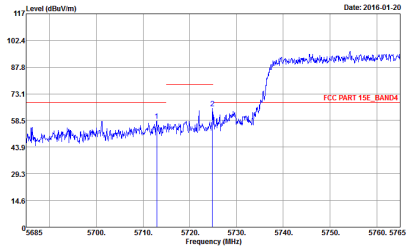
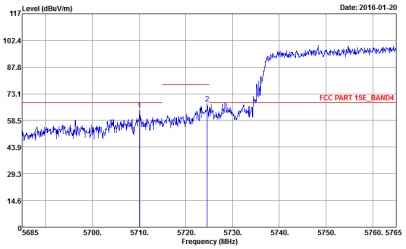
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 104	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 104
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 501117 Mode : 104	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 501117 Mode : 104



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 104	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 91200-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 104
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 104	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 104



Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz - L	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 5D1117 Mode : 105 Power : 20 Power : 68.3	 Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 5D1117 Mode : 105 Power : 20 Power : 68.3



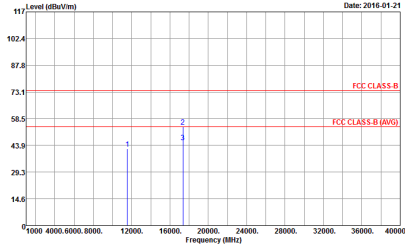
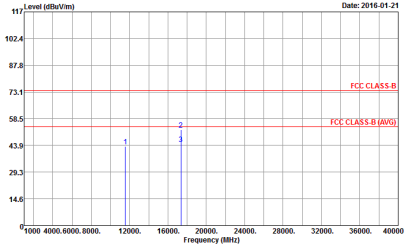
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz - R	
1+2	Horizontal	Vertical
Peak	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 105 Power : 20 : 68.3	Site : 03CH11-HY Condition : FCC PART 15E_BAND4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 501117 Mode : 105 Power : 20 : 68.3



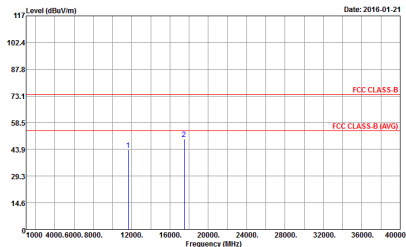
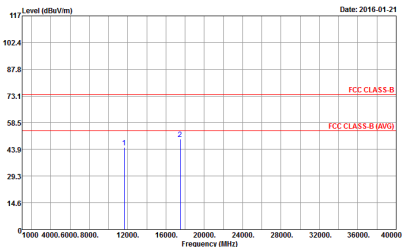
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 95	Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 95



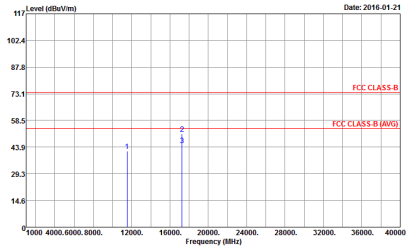
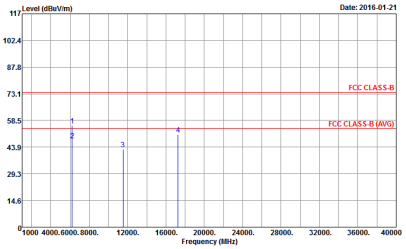
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 9c	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 9c



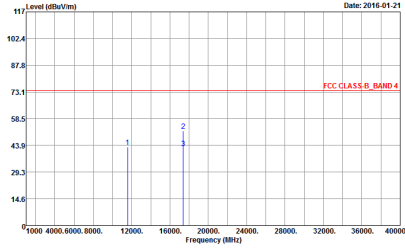
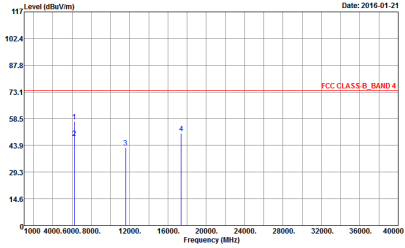
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 97	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 97



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 98 68.3	 Site : 03CH11-HY Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 98 68.3



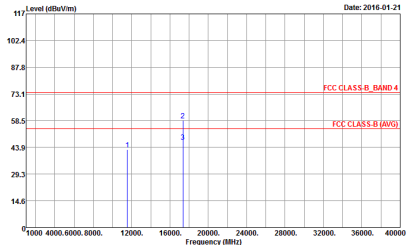
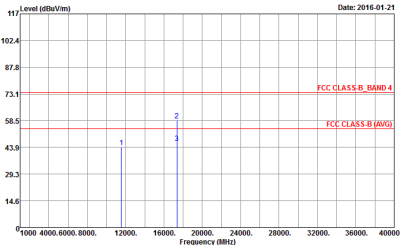
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 99	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 99



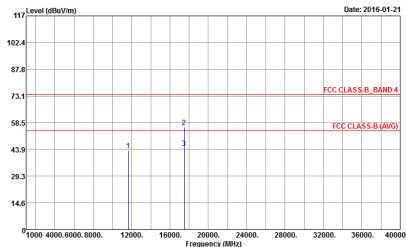
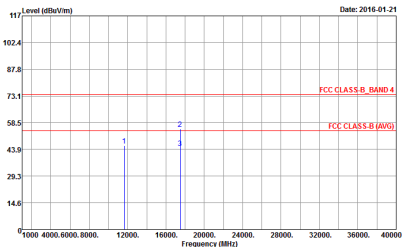
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 100	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 100



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 101	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 101



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 102	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 5D1117 Mode : 102



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

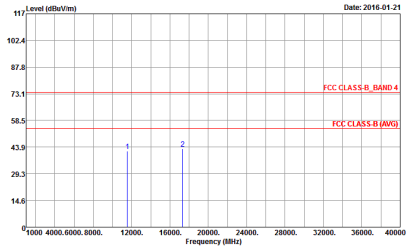
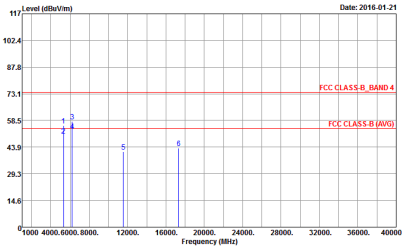
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : I03	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : I03



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : 104	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : 104

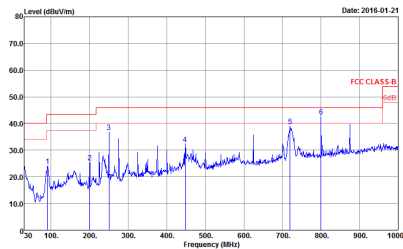
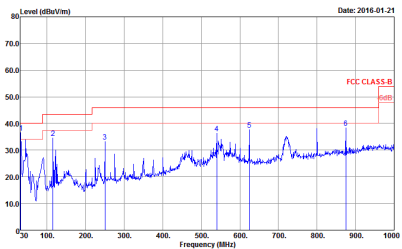


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B, BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 501117 Mode : I05	 Site : 03CH11-HY Condition : FCC CLASS-B, BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 501117 Mode : I05



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 HORIZONTAL Detector : Peak Project : 5D1117 Mode : 110	 Site : 03CH11-HY Condition : FCC CLASS-B 3m BI-LOG 6111D-LF_9668 VERTICAL Detector : Peak Project : 5D1117 Mode : 110