



FCC RF Test Report

APPLICANT : Acer Incorporated
EQUIPMENT : Smart HandHeld
BRAND NAME : Acer
MODEL NAME : S58, S58A
MARKETING NAME : Liquid Jade Primo, Liquid Jade 2
FCC ID : HLZEMS58
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Nov. 03, 2015 and testing was completed on Feb. 05, 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.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5N0311E	Rev. 01	Initial issue of report	Mar. 09, 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 3.18 dB at 11650.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.80 dB at 0.166 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

Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)

1.2 Manufacturer

Shanghai Sunrise Simcom Limited

No. 888, Shengli Rd., Qingpu, Shanghai, P.R.China 201700

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart HandHeld
Brand Name	Acer
Model Name	S58, S58A
Marketing Name	Liquid Jade Primo, Liquid Jade 2
FCC ID	HLZEMS58
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.1 EDR/LE
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> SISO <Ant. 1> 802.11a : 8.35 dBm / 0.0068 W 802.11n HT20 : 7.50 dBm / 0.0056 W 802.11n HT40 : 7.14 dBm / 0.0052 W 802.11ac VHT20: 3.84 dBm / 0.0024 W 802.11ac VHT40: 2.31 dBm / 0.0017 W 802.11ac VHT80: 2.05 dBm / 0.0016 W SISO <Ant. 2> 802.11a : 7.79 dBm / 0.0060 W 802.11n HT20 : 7.26 dBm / 0.0053 W 802.11n HT40 : 6.97 dBm / 0.0050 W 802.11ac VHT20: 3.73 dBm / 0.0024 W 802.11ac VHT40: 2.20 dBm / 0.0017 W 802.11ac VHT80: 1.99 dBm / 0.0016 W MIMO <Ant. 1 + 2> 802.11a : 11.44 dBm / 0.0139 W 802.11n HT20 : 10.42 dBm / 0.0110 W 802.11n HT40 : 10.09 dBm / 0.0102 W 802.11ac VHT20: 6.69 dBm / 0.0047 W 802.11ac VHT40: 5.33 dBm / 0.0034 W 802.11ac VHT80: 5.21 dBm / 0.0033 W										
99% Occupied Bandwidth		802.11a : 17.00 MHz 802.11n HT20 : 18.00 MHz 802.11n HT40 : 36.30 MHz 802.11ac VHT20 : 17.95 MHz 802.11ac VHT40 : 36.40 MHz 802.11ac VHT80 : 75.48 MHz										
Type of Modulation		802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)										
Antenna Type		Main Antenna : IFA Antenna Aux. Antenna : IFA Antenna										
Antenna Gain		Main Antenna : -0.84 dBi Aux. Antenna : -0.90 dBi										
Antenna Function Description		<table><tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr><tr><td>802.11 a/n/ac SISO</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table>			Ant. 1	Ant. 2	802.11 a/n/ac SISO	V	V	802.11 a/n/ac MIMO	V	V
	Ant. 1	Ant. 2										
802.11 a/n/ac SISO	V	V										
802.11 a/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.	
	TH05-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 (Z plane) were recorded in this report.

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

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

2.1 Carrier Frequency 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.

SISO <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)	8.35	8.23	8.33	8.31	8.25	8.33	8.30	8.32

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	7.50	7.20	7.50	6.82	7.16	7.13	7.30	7.18

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	6.95	6.91	6.87	6.64	6.58	6.67	6.59	6.64

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)	3.84	3.61	3.83	3.73	3.58	3.62	3.60	3.55	3.44

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)	2.31	2.20	2.16	2.16	2.29	2.26	2.19	2.18	2.11	1.97

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)	2.05	2.04	2.03	2.04	2.01	1.94	1.76	1.45	1.29	1.52



SISO <Ant. Port 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)	7.79	7.63	7.66	7.70	7.57	7.68	7.71	7.50

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	7.26	7.09	7.03	6.81	6.96	6.89	6.83	6.80

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	6.97	6.97	6.92	6.74	6.89	6.84	6.83	6.81

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)	3.43	3.36	3.32	3.29	3.36	3.38	3.25	3.12	2.94

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)	2.20	2.11	2.14	1.93	2.09	1.96	1.98	1.92	1.88	1.64

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)	1.99	1.94	1.94	1.72	1.80	1.82	1.88	1.42	1.55	1.39



MIMO <Ant. 1+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)	11.44	11.36	11.26	11.31	11.34	11.43	11.42	11.35

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)	10.42	10.26	10.28	10.26	10.29	10.35	10.06	10.25

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)	10.09	8.77	8.66	7.84	8.16	8.30	8.15	8.06

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)	6.69	6.37	6.59	6.55	6.55	6.51	6.32	6.33	6.36

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)	5.33	5.20	5.18	5.24	5.27	5.23	5.18	5.09	5.24	5.11

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)	5.21	5.11	5.14	5.16	5.19	5.17	5.17	4.85	4.75	4.68

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
802.11a	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA Band V Idle + Bluetooth Idle + WLAN (5GHz) Link + Earphone + GPS Rx + USB Cable (Data Link with Notebook)

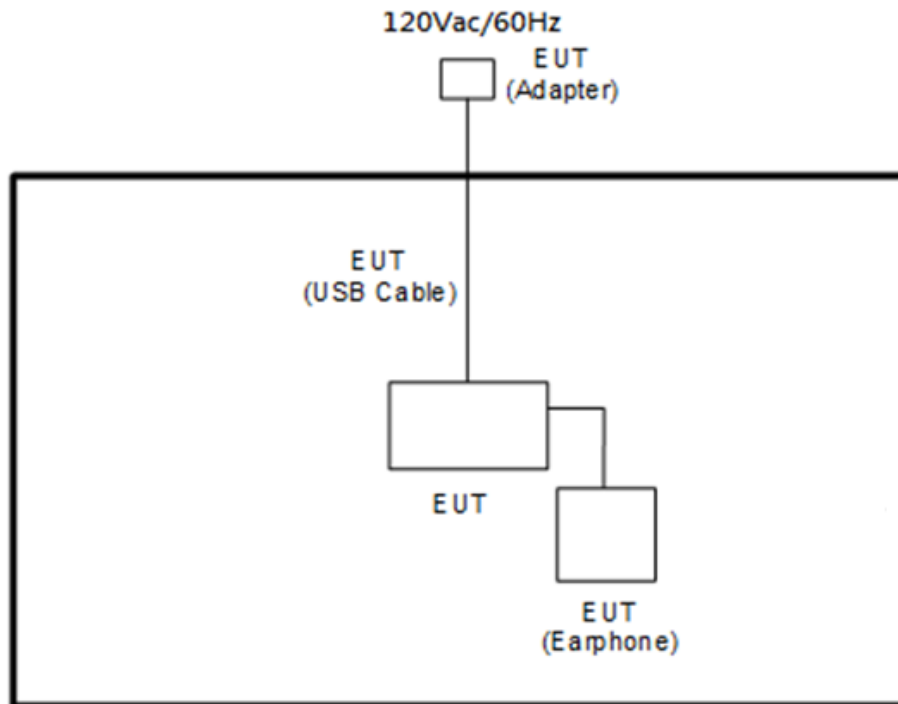


Ch. #		Band IV : 5725-5850 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

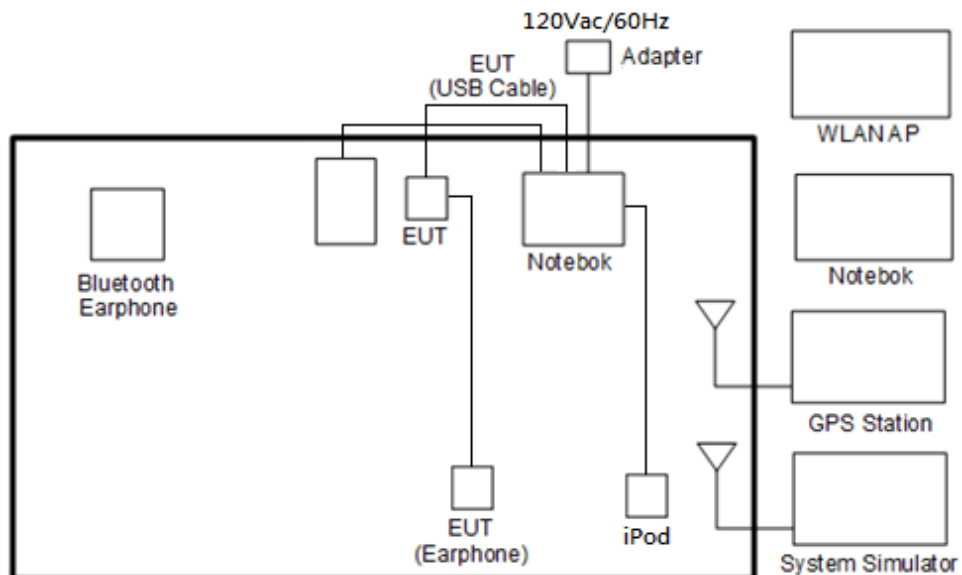
Ch. #		Band IV : 5725-5850 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QRCT" installed in the notebook 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.

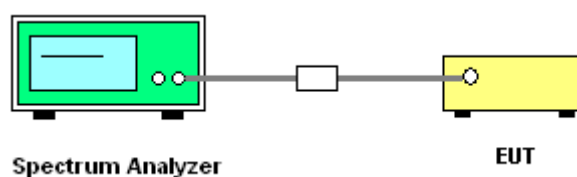
3.1.2 Measuring Instruments

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.

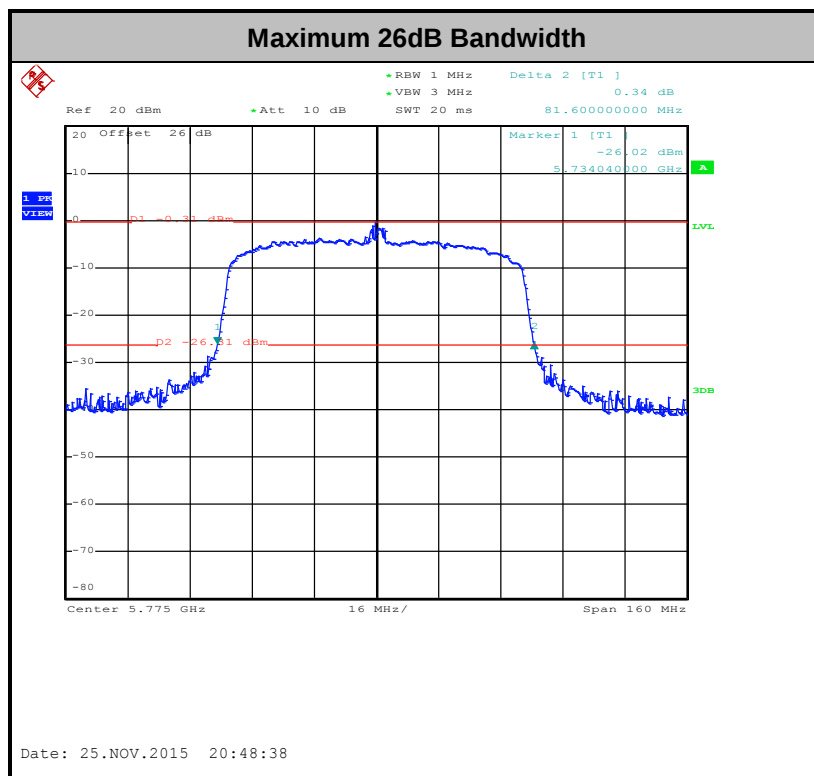
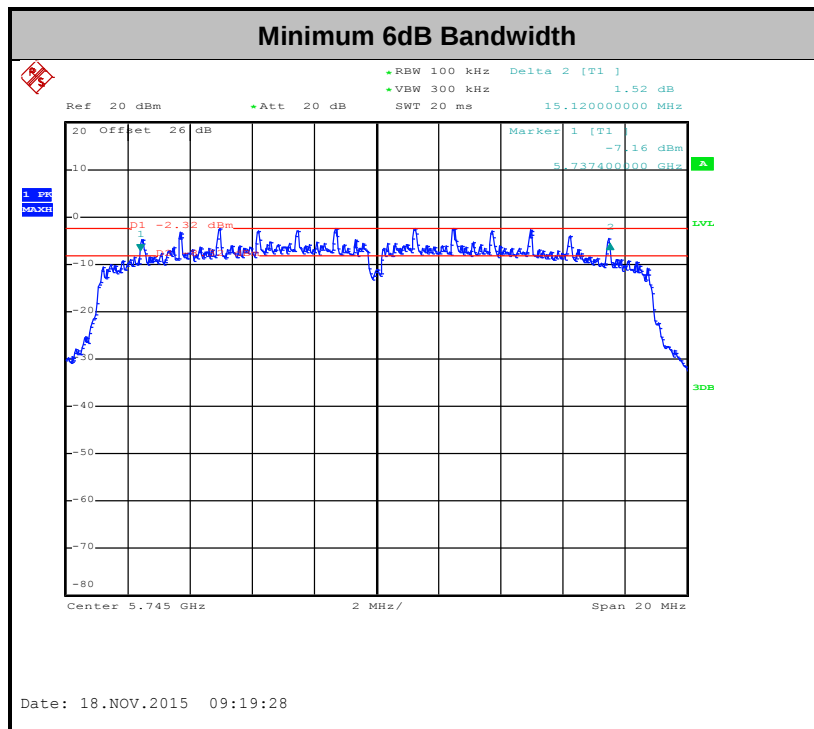
3.1.4 Test Setup

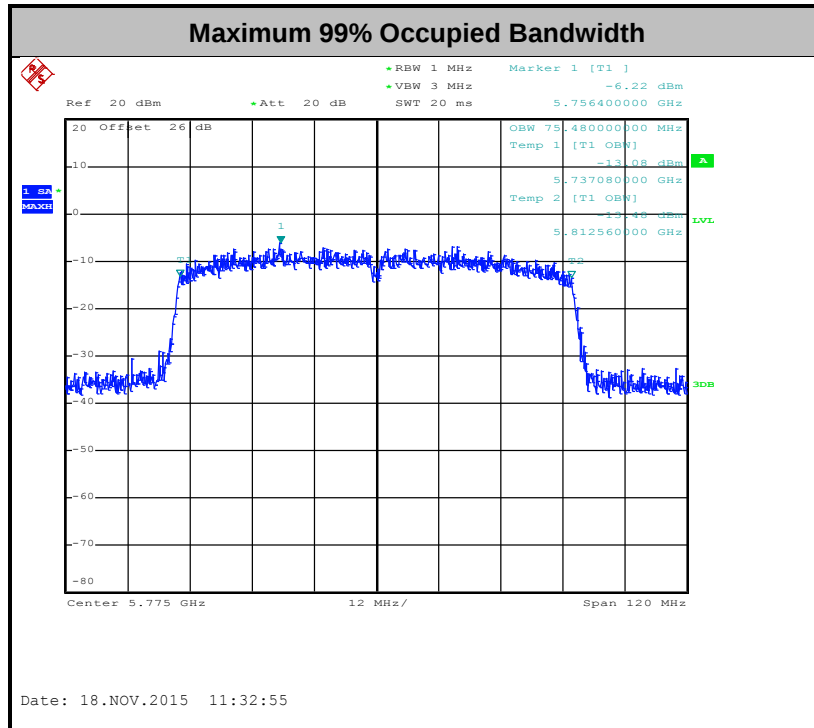




3.1.5 Test Result of 6dB Bandwidth

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.

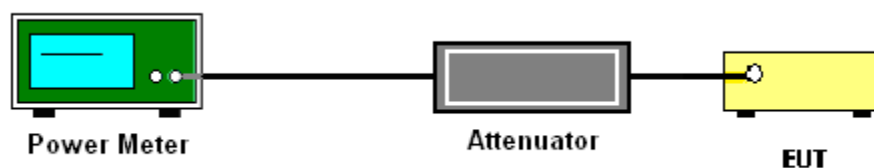
3.2.3 Test Procedures

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).

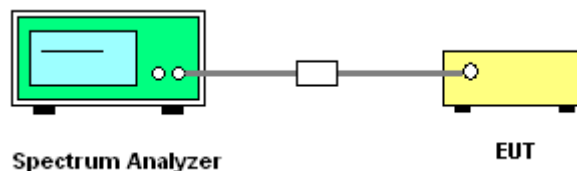
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW $\geq$ 1 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - 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 PSD 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.

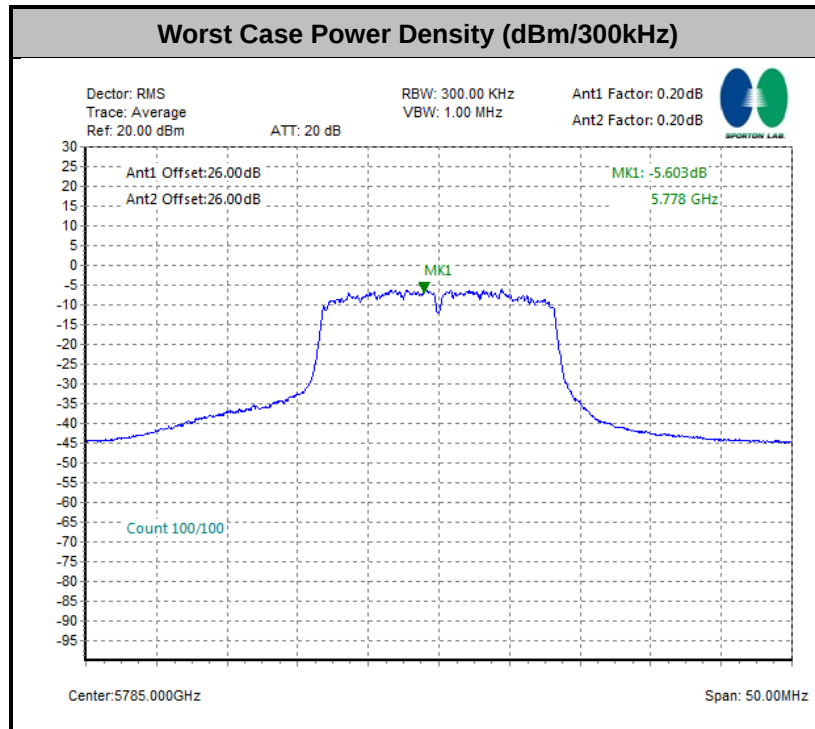
3.3.4 Test Setup





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.

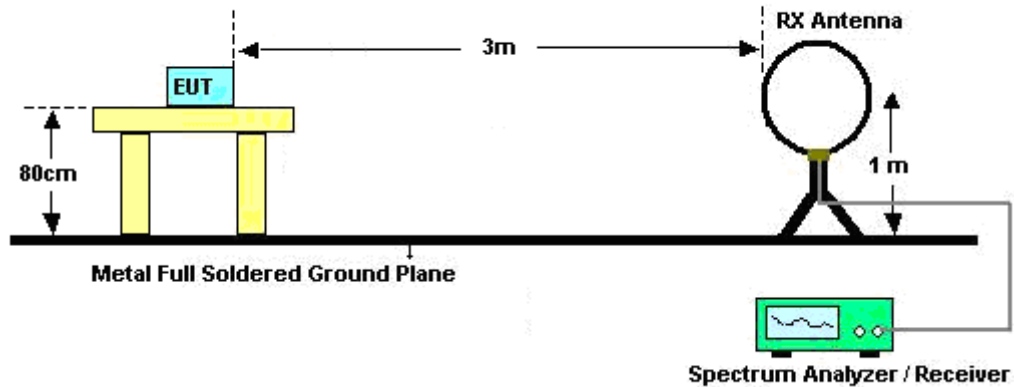
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	95.392	2070	0.48	1kHz
1	5GHz 802.11n HT20	95.074	1930	0.52	
1	5GHz 802.11n HT40	90.476	950	1.05	3kHz
2	802.11a	95.392	2070	0.48	1kHz
2	5GHz 802.11n HT20	95.074	1930	0.52	
2	5GHz 802.11n HT40	90.476	950	1.05	3kHz
1+2	5GHz 802.11a for Ant 1	95.392	2070	0.48	1kHz
1+2	5GHz 802.11a for Ant 2	95.392	2070	0.48	
1+2	5GHz 802.11n HT20 for Ant 1	90.741	980	1.02	3kHz
1+2	5GHz 802.11n HT20 for Ant 2	90.741	980	1.02	
1+2	5GHz 802.11n HT40 for Ant 1	83.838	498	2.01	
1+2	5GHz 802.11n HT40 for Ant 2	83.673	492	2.03	
1	5GHz 802.11ac VHT20	95.11	1945	0.51	1kHz
1	5GHz 802.11ac VHT40	90.566	960	1.04	3kHz
1	5GHz 802.11ac VHT80	81.915	462	2.16	
2	5GHz 802.11ac VHT20	95.098	1940	0.52	1kHz
2	5GHz 802.11ac VHT40	90.995	960	1.04	3kHz
2	5GHz 802.11ac VHT80	81.915	462	2.16	
1+2	5GHz 802.11ac VHT20 for Ant 1	95.332	1940	0.52	1kHz
1+2	5GHz 802.11ac VHT20 for Ant 2	95.098	1940	0.52	
1+2	5GHz 802.11ac VHT40 for Ant 1	90.476	950	1.05	3kHz
1+2	5GHz 802.11ac VHT40 for Ant 2	90.476	950	1.05	
1+2	5GHz 802.11ac VHT80 for Ant 1	82.979	468	2.14	
1+2	5GHz 802.11ac VHT80 for Ant 2	82.796	462	2.16	



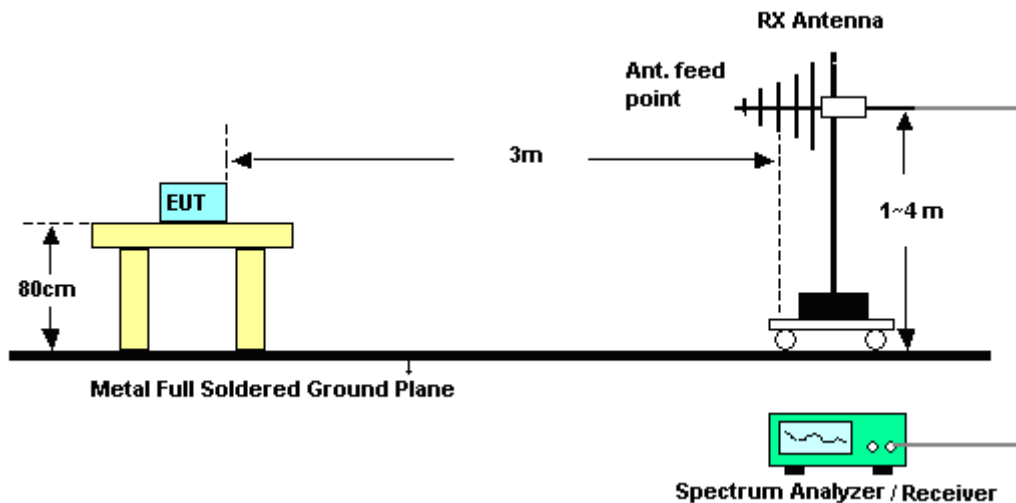
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

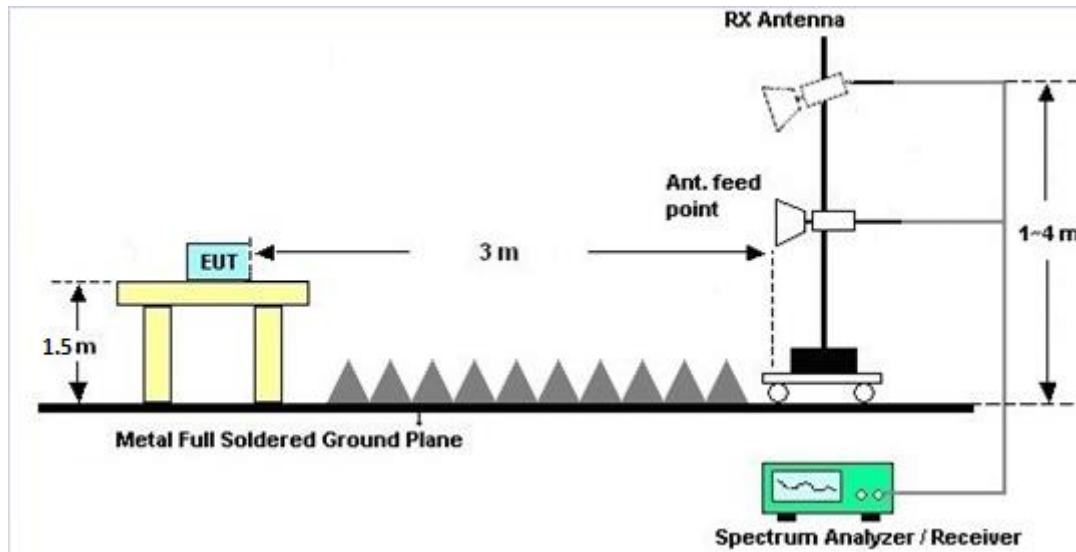
For radiated emissions below 30MHz



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.

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

Please refer to Appendix B.

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.

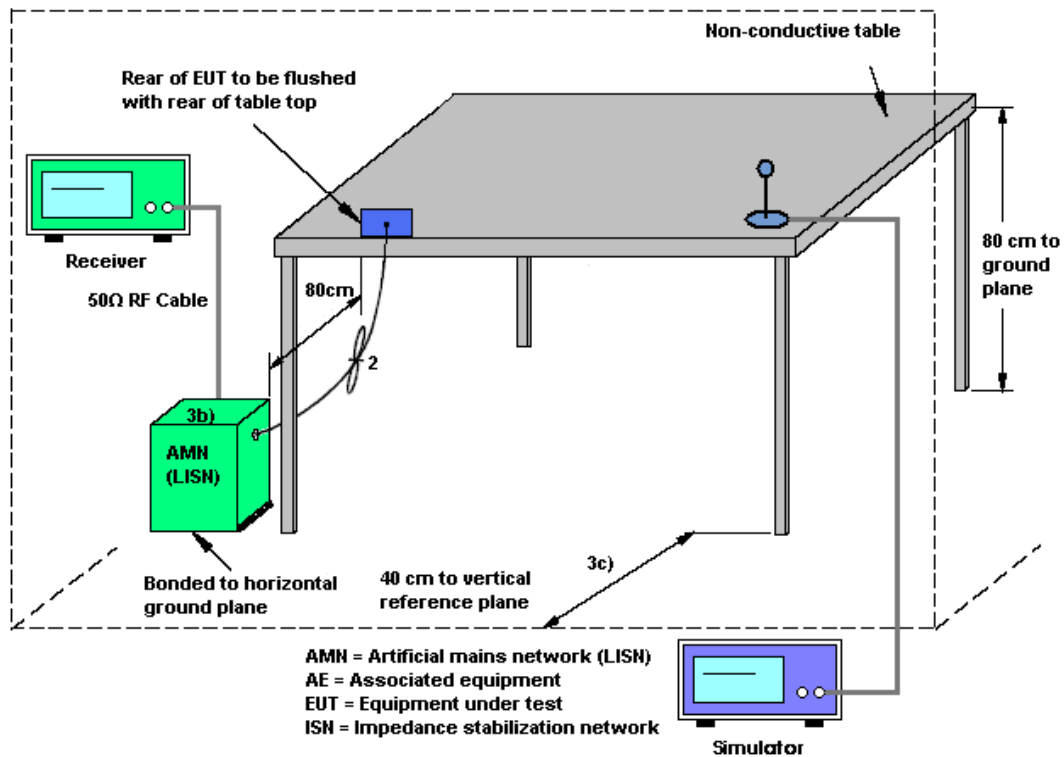
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

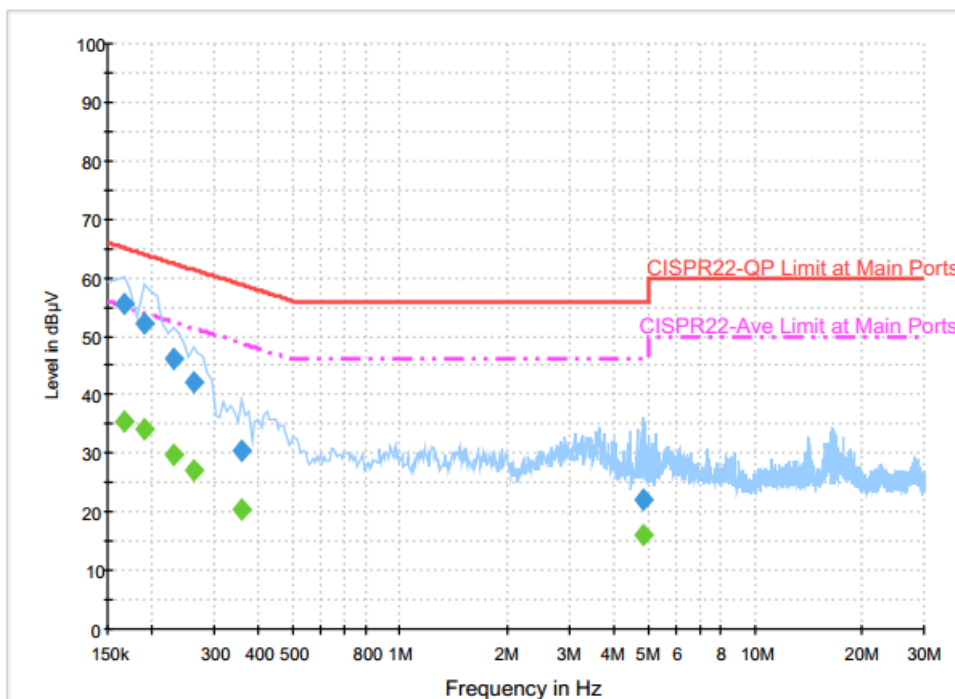
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 :	24~25°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	56~57%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN (5GHz) Link + Earphone + GPS Rx + USB Cable (Data Link with Notebook)		



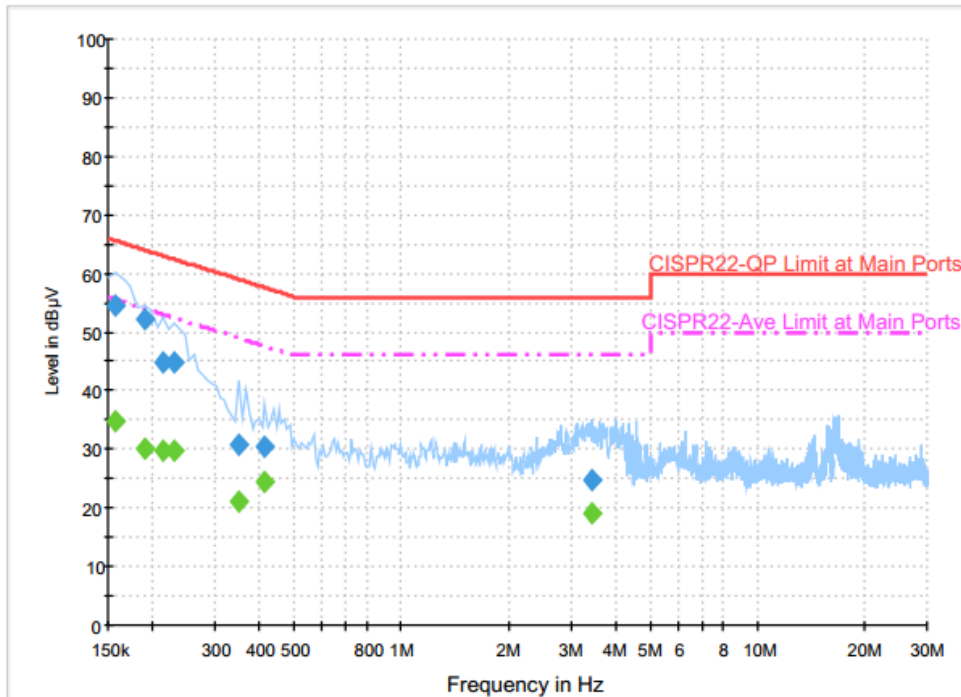
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	55.4	Off	L1	19.6	9.8	65.2
0.190000	52.2	Off	L1	19.6	11.8	64.0
0.230000	46.3	Off	L1	19.6	16.1	62.4
0.262000	42.1	Off	L1	19.6	19.3	61.4
0.358000	30.4	Off	L1	19.6	28.4	58.8
4.838000	22.0	Off	L1	19.7	34.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	35.6	Off	L1	19.6	19.6	55.2
0.190000	34.3	Off	L1	19.6	19.7	54.0
0.230000	29.9	Off	L1	19.6	22.5	52.4
0.262000	27.2	Off	L1	19.6	24.2	51.4
0.358000	20.5	Off	L1	19.6	28.3	48.8
4.838000	16.2	Off	L1	19.7	29.8	46.0

Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	56~57%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN (5GHz) Link + Earphone + GPS Rx + USB Cable (Data Link with Notebook)		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	54.6	Off	N	19.6	11.0	65.6
0.190000	52.1	Off	N	19.6	11.9	64.0
0.214000	44.9	Off	N	19.6	18.1	63.0
0.230000	44.9	Off	N	19.6	17.5	62.4
0.350000	30.6	Off	N	19.6	28.4	59.0
0.414000	30.4	Off	N	19.6	27.2	57.6
3.454000	24.8	Off	N	19.6	31.2	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	34.9	Off	N	19.6	20.7	55.6
0.190000	30.2	Off	N	19.6	23.8	54.0
0.214000	29.8	Off	N	19.6	23.2	53.0
0.230000	29.7	Off	N	19.6	22.7	52.4
0.350000	21.1	Off	N	19.6	27.9	49.0
0.414000	24.3	Off	N	19.6	23.3	47.6
3.454000	19.1	Off	N	19.6	26.9	46.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

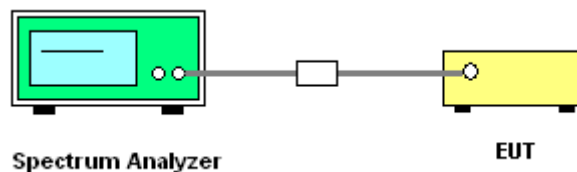
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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

3.8 Antenna Requirements

3.8.1 Standard Applicable

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

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming.

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	-0.84	-0.90	2.14	2.14	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1132003	300MHz~40GHz	Aug. 12, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Aug. 11, 2016	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Aug. 12, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Aug. 11, 2016	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Sep. 11, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Sep. 10, 2016	Conducted (TH05-HY)
Signal Generator	Agilent	E4438C	MY49070755	250kHz~6GHz	Oct. 01, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Sep. 30, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jun. 18, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Jun. 17, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Jun. 15, 2015	Nov. 11, 2015 ~ Dec. 14, 2015	Jun. 14, 2016	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	GEO821763	N/A	Nov. 24, 2014	Nov. 11, 2015 ~Nov. 12, 2015	Nov. 23, 2015	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	GEO821763	N/A	Nov. 13, 2015	Nov. 13, 2015 ~ Dec. 14, 2015	Nov. 12, 2016	Conducted (TH05-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Nov. 01, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Jun. 01, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Nov. 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Nov. 16, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jul. 01, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Jun. 30, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Sep. 24, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Sep. 23, 2016	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 27, 2015 ~ Dec. 11, 2015	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0-360 degree	N/A	Nov. 27, 2015 ~ Dec. 11, 2015	N/A	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Nov. 27, 2015 ~ Dec. 11, 2015	Sep. 01, 2016	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 05, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Feb. 05, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Feb. 05, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Feb. 05, 2016	Dec. 13, 2016	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Feb. 05, 2016	Jan. 07, 2017	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Appendix A. Conducted Test Results

Test Engineer:	AC Chang	Temperature:	21~25	°C
Test Date:	2015/11/11~2015/12/14	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	2	149	5745	16.90	16.90	23.50	23.10	15.16	15.16	0.5		Pass
11a	6Mbps	2	157	5785	16.90	17.00	24.90	25.70	15.36	15.16	0.5		Pass
11a	6Mbps	2	165	5825	16.85	16.90	24.00	24.40	15.16	15.16	0.5		Pass
HT20	MCS12	2	149	5745	17.90	18.00	24.80	24.30	15.12	15.70	0.5		Pass
HT20	MCS12	2	157	5785	17.90	17.90	26.00	25.10	15.16	15.16	0.5		Pass
HT20	MCS12	2	165	5825	17.90	17.90	26.00	23.90	15.16	15.16	0.5		Pass
HT40	MCS12	2	151	5755	36.10	36.20	51.30	48.60	35.12	35.12	0.5		Pass
HT40	MCS12	2	159	5795	36.10	36.30	51.62	51.08	35.12	35.12	0.5		Pass
VHT20	MCS0	2	149	5745	17.95	17.90	21.90	22.00	15.12	15.12	0.5		Pass
VHT20	MCS0	2	157	5785	17.90	17.90	21.80	22.00	15.12	15.14	0.5		Pass
VHT20	MCS0	2	165	5825	17.85	17.95	22.00	21.80	15.14	15.14	0.5		Pass
VHT40	MCS6	2	151	5755	36.20	36.20	48.24	49.50	35.12	35.12	0.5		Pass
VHT40	MCS6	2	159	5795	36.30	36.40	45.32	50.90	35.12	35.12	0.5		Pass
VHT80	MCS3	2	155	5775	75.36	75.48	81.60	81.28	75.12	75.12	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	2	149	5745	0.20	0.20	6.96	6.93	9.96	30.00		2.14			Pass
11a	6Mbps	2	157	5785	0.20	0.20	6.69	9.66	11.44	30.00		2.14			Pass
11a	6Mbps	2	165	5825	0.20	0.20	5.90	8.41	10.35	30.00		2.14			Pass
HT20	MCS12	2	149	5745	1.76	1.64	7.31	7.51	10.42	30.00		2.14			Pass
HT20	MCS12	2	157	5785	1.76	1.64	6.12	6.33	9.24	30.00		2.14			Pass
HT20	MCS12	2	165	5825	1.76	1.64	5.35	5.83	8.61	30.00		2.14			Pass
HT40	MCS12	2	151	5755	0.77	0.77	6.87	6.93	9.91	30.00		2.14			Pass
HT40	MCS12	2	159	5795	0.77	0.77	6.98	7.18	10.09	30.00		2.14			Pass
VHT20	MCS0	2	149	5745	0.21	0.22	2.85	3.49	6.19	30.00		2.14			Pass
VHT20	MCS0	2	157	5785	0.21	0.22	3.37	3.98	6.69	30.00		2.14			Pass
VHT20	MCS0	2	165	5825	0.21	0.22	2.89	3.88	6.42	30.00		2.14			Pass
VHT40	MCS6	2	151	5755	2.27	2.15	3.51	0.65	5.33	30.00		2.14			Pass
VHT40	MCS6	2	159	5795	2.27	2.15	3.46	0.58	5.27	30.00		2.14			Pass
VHT80	MCS3	2	155	5775	2.10	2.17	3.37	0.60	5.21	30.00		2.14			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	2	149	5745	0.20	0.20	2.22				-5.45	30.00		2.14		Pass
11a	6Mbps	2	157	5785	0.20	0.20	2.22				-3.38	30.00		2.14		Pass
11a	6Mbps	2	165	5825	0.20	0.20	2.22				-5.19	30.00		2.14		Pass
HT20	MCS12	2	149	5745	1.76	1.64	2.22				-5.46	30.00		2.14		Pass
HT20	MCS12	2	157	5785	1.76	1.64	2.22				-5.81	30.00		2.14		Pass
HT20	MCS12	2	165	5825	1.76	1.64	2.22				-6.43	30.00		2.14		Pass
HT40	MCS12	2	151	5755	0.77	0.77	2.22				-8.14	30.00		2.14		Pass
HT40	MCS12	2	159	5795	0.77	0.77	2.22				-8.80	30.00		2.14		Pass
VHT20	MCS0	2	149	5745	0.21	0.22	2.22				-8.60	30.00		2.14		Pass
VHT20	MCS0	2	157	5785	0.21	0.22	2.22				-7.53	30.00		2.14		Pass
VHT20	MCS0	2	165	5825	0.21	0.22	2.22				-8.19	30.00		2.14		Pass
VHT40	MCS6	2	151	5755	2.27	2.15	2.22				-12.17	30.00		2.14		Pass
VHT40	MCS6	2	159	5795	2.27	2.15	2.22				-13.51	30.00		2.14		Pass
VHT80	MCS3	2	155	5775	2.10	2.17	2.22				-16.40	30.00		2.14		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	3.65	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	20	4.4	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	20	3.85	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	149	5745	5745.000	0.000	0.00	50	3.85	



Appendix B. Radiated Spurious Emission

Test Engineer :	Bill Chang, Ken Wu, and J.C. Liang	Temperature :	20~23°C
		Humidity :	54~56%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5717.4	64.1	-9.9	74	55.99	32.29	9.39	33.57	201	251	P	H
		5724.6	48.86	-5.14	54	40.68	32.31	9.44	33.57	201	251	A	H
	*	5747	101.07	-	-	92.86	32.34	9.44	33.57	201	251	P	H
	*	5747	95.22	-	-	87.01	32.34	9.44	33.57	201	251	A	H
													H
													H
													H
													H
		5712.44	58.9	-15.1	74	50.79	32.29	9.39	33.57	194	225	P	V
		5724.92	47.16	-6.84	54	38.98	32.31	9.44	33.57	194	225	A	V
	*	5745	99.48	-	-	91.27	32.34	9.44	33.57	194	225	P	V
	*	5745	93.63	-	-	85.42	32.34	9.44	33.57	194	225	A	V
													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)
802.11a CH 157 5785MHz		5722.52	50.81	-23.19	74	42.63	32.31	9.44	33.57	197	260	P	H
		5724.2	43.09	-10.91	54	34.91	32.31	9.44	33.57	197	260	A	H
	*	5785	107.85	-	-	99.56	32.39	9.49	33.59	197	260	P	H
	*	5785	100.9	-	-	92.61	32.39	9.49	33.59	197	260	A	H
		5873.28	51.98	-22.02	74	43.53	32.53	9.54	33.62	197	260	P	H
		5850.32	42.13	-11.87	54	33.72	32.48	9.54	33.61	197	260	A	H
													H
													H
		5719.56	50.12	-23.88	74	41.99	32.31	9.39	33.57	190	242	P	V
		5724.92	42.25	-11.75	54	34.07	32.31	9.44	33.57	190	242	A	V
	*	5785	106	-	-	97.71	32.39	9.49	33.59	190	242	P	V
	*	5785	99.31	-	-	91.02	32.39	9.49	33.59	190	242	A	V
		5882.64	51.27	-22.73	74	42.79	32.53	9.57	33.62	190	242	P	V
		5851.84	41.99	-12.01	54	33.58	32.48	9.54	33.61	190	242	A	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)
802.11a CH 165 5825MHz	*	5825	108.05	-	-	99.67	32.46	9.52	33.6	193	263	P	H
	*	5825	100.31	-	-	91.93	32.46	9.52	33.6	193	263	A	H
		5854.08	67.39	-10.91	78.3	58.95	32.51	9.54	33.61	193	263	P	H
		5873.04	59.63	-14.37	74	51.18	32.53	9.54	33.62	193	263	P	H
		5860.24	48.21	-5.79	54	39.78	32.51	9.54	33.62	193	263	A	H
													H
													H
													H
	*	5825	106.25	-	-	97.87	32.46	9.52	33.6	216	247	P	V
	*	5825	98.44	-	-	90.06	32.46	9.52	33.6	216	247	A	V
		5850.48	61.88	-16.42	78.3	53.47	32.48	9.54	33.61	216	247	P	V
		5866.8	53.61	-20.39	74	45.18	32.51	9.54	33.62	216	247	P	V
		5860.16	46.38	-7.62	54	37.95	32.51	9.54	33.62	216	247	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 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		7660	45.39	-28.61	74	62.84	36.7	10.82	64.97	100	0	P	H
		11490	48.69	-25.31	74	60.57	39.91	13.95	65.74	100	0	P	H
		17235	44.6	-29.4	74	50.73	41	16.95	64.08	100	0	P	H
													H
		7660	42.77	-31.23	74	60.22	36.7	10.82	64.97	100	0	P	V
		11490	50.69	-23.31	74	62.57	39.91	13.95	65.74	100	0	P	V
		17232	44.69	-29.31	74	50.84	41	16.93	64.08	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	58.42	-15.58	74	70.32	39.76	14	65.66	100	249	P	H
		11570	48.89	-5.11	54	60.79	39.76	14	65.66	100	249	A	H
		17355	45.13	-28.87	74	50.97	41.35	17.03	64.22	100	0	P	H
													H
		11570	61.75	-12.25	74	73.65	39.76	14	65.66	109	91	P	V
		11570	50.79	-3.21	54	62.69	39.76	14	65.66	109	91	A	V
		17355	44.38	-29.62	74	50.22	41.35	17.03	64.22	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	58.41	-15.59	74	70.36	39.62	14.05	65.62	100	254	P	H
		11650	48.47	-5.53	54	60.42	39.62	14.05	65.62	100	254	A	H
		17475	43.37	-30.63	74	48.93	41.7	17.1	64.36	100	0	P	H
													H
		11650	61.91	-12.09	74	73.86	39.62	14.05	65.62	118	94	P	V
		11650	50.82	-3.18	54	62.77	39.62	14.05	65.62	118	94	A	V
		17475	43.78	-30.22	74	49.34	41.7	17.1	64.36	100	0	P	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+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		5697.48	58.01	-15.99	74	49.91	32.27	9.39	33.56	215	287	P	H
		5724.04	67.52	-10.78	78.3	59.34	32.31	9.44	33.57	215	287	P	H
		5713.48	49.36	-4.64	54	41.25	32.29	9.39	33.57	215	287	A	H
	*	5745	104.75	-	-	96.54	32.34	9.44	33.57	215	287	P	H
	*	5745	95.81	-	-	87.6	32.34	9.44	33.57	215	287	A	H
													H
													H
													H
		5706.36	61.8	-12.2	74	53.69	32.29	9.39	33.57	204	305	P	V
		5722.92	64.45	-13.85	78.3	56.27	32.31	9.44	33.57	204	305	P	V
		5714.92	48.71	-5.29	54	40.6	32.29	9.39	33.57	204	305	A	V
	*	5745	103.34	-	-	95.13	32.34	9.44	33.57	204	305	P	V
	*	5745	94.31	-	-	86.1	32.34	9.44	33.57	204	305	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		5697.32	50.16	-23.84	74	42.06	32.27	9.39	33.56	216	285	P	H
		5720.2	50.74	-27.56	78.3	42.61	32.31	9.39	33.57	216	285	P	H
		5712.52	41.85	-12.15	54	33.74	32.29	9.39	33.57	216	285	A	H
	*	5785	104.53	-	-	96.24	32.39	9.49	33.59	216	285	P	H
	*	5785	95.53	-	-	87.24	32.39	9.49	33.59	216	285	A	H
		5857.52	49.4	-28.9	78.3	40.96	32.51	9.54	33.61	216	285	P	H
		5865.76	50.33	-23.67	74	41.9	32.51	9.54	33.62	216	285	P	H
		5864.56	42.19	-11.81	54	33.76	32.51	9.54	33.62	216	285	A	H
		5713.64	48.64	-25.36	74	40.53	32.29	9.39	33.57	191	305	P	V
		5720.92	50.1	-28.2	78.3	41.97	32.31	9.39	33.57	191	305	P	V
		5696.04	41.44	-12.56	54	33.34	32.27	9.39	33.56	191	305	A	V
	*	5785	103.34	-	-	95.05	32.39	9.49	33.59	191	305	P	V
	*	5785	93.84	-	-	85.55	32.39	9.49	33.59	191	305	A	V
		5855.84	50.18	-28.12	78.3	41.74	32.51	9.54	33.61	191	305	P	V
		5879.28	50.05	-23.95	74	41.6	32.53	9.54	33.62	191	305	P	V
		5860.08	41.67	-12.33	54	33.24	32.51	9.54	33.62	191	305	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	104.47	-	-	96.09	32.46	9.52	33.6	207	285	P	H
	*	5825	94.98	-	-	86.6	32.46	9.52	33.6	207	285	A	H
		5851.44	65.93	-12.37	78.3	57.52	32.48	9.54	33.61	207	285	P	H
		5860.96	54.94	-19.06	74	46.51	32.51	9.54	33.62	207	285	P	H
		5862.08	47.21	-6.79	54	38.78	32.51	9.54	33.62	207	285	A	H
													H
													H
													H
	*	5825	103.59	-	-	95.21	32.46	9.52	33.6	221	305	P	V
	*	5825	94.54	-	-	86.16	32.46	9.52	33.6	221	305	A	V
		5852.72	55.16	-23.14	78.3	46.75	32.48	9.54	33.61	221	305	P	V
		5861.6	58.03	-15.97	74	49.6	32.51	9.54	33.62	221	305	P	V
		5861.6	46.09	-7.91	54	37.66	32.51	9.54	33.62	221	305	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		7660	44.63	-29.37	74	62.08	36.7	10.82	64.97	100	0	P	H
		11490	50.56	-23.44	74	62.44	39.91	13.95	65.74	100	0	P	H
		17235	38.63	-35.37	74	44.76	41	16.95	64.08	100	0	P	H
													H
		7660	42.25	-31.75	74	59.7	36.7	10.82	64.97	100	0	P	V
		11495	52.38	-21.62	74	64.26	39.91	13.95	65.74	100	65	P	V
		11495	48.83	-5.17	54	60.71	39.91	13.95	65.74	100	65	A	V
		17232	43.17	-30.83	74	49.32	41	16.93	64.08	100	0	P	V
802.11n HT20 CH 157 5785MHz		7715	43.88	-30.12	74	61.18	36.76	10.87	64.93	100	0	P	H
		11570	47.86	-26.14	74	59.76	39.76	14	65.66	100	0	P	H
		17355	43.83	-30.17	74	49.67	41.35	17.03	64.22	100	0	P	H
													H
		7715	41.84	-32.16	74	59.14	36.76	10.87	64.93	100	0	P	V
		11565	49.42	-24.58	74	61.29	39.8	14	65.67	100	0	P	V
		17355	43.87	-30.13	74	49.71	41.35	17.03	64.22	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11645	49.39	-24.61	74	61.34	39.62	14.05	65.62	100	0	P	H
		17472	42.87	-31.13	74	48.45	41.7	17.08	64.36	100	0	P	H
													H
													H
		11645	54.54	-19.46	74	66.49	39.62	14.05	65.62	121	98	P	V
		11645	46.44	-7.56	54	58.39	39.62	14.05	65.62	121	98	A	V
		17472	43.16	-30.84	74	48.74	41.7	17.08	64.36	100	0	P	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		5711	62.49	-11.51	74	54.38	32.29	9.39	33.57	221	291	P	H
		5720.04	62.08	-16.22	78.3	53.95	32.31	9.39	33.57	221	291	P	H
		5714.28	48.5	-5.5	54	40.39	32.29	9.39	33.57	221	291	A	H
	*	5755	99.35	-	-	91.12	32.36	9.44	33.57	221	291	P	H
	*	5755	90.01	-	-	81.78	32.36	9.44	33.57	221	291	A	H
		5850.16	48.8	-29.5	78.3	40.39	32.48	9.54	33.61	221	291	P	H
		5867.12	49.96	-24.04	74	41.53	32.51	9.54	33.62	221	291	P	H
		5865.28	41.51	-12.49	54	33.08	32.51	9.54	33.62	221	291	A	H
		5704.28	57.81	-16.19	74	49.69	32.29	9.39	33.56	210	293	P	V
		5723.08	66.73	-11.57	78.3	58.55	32.31	9.44	33.57	210	293	P	V
		5713	47.8	-6.2	54	39.69	32.29	9.39	33.57	210	293	A	V
	*	5755	98.8	-	-	90.57	32.36	9.44	33.57	210	293	P	V
	*	5755	90.33	-	-	82.1	32.36	9.44	33.57	210	293	A	V
		5850.8	50.68	-27.62	78.3	42.27	32.48	9.54	33.61	210	293	P	V
		5864.16	51.19	-22.81	74	42.76	32.51	9.54	33.62	210	293	P	V
		5863.68	41.45	-12.55	54	33.02	32.51	9.54	33.62	210	293	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 HT40 CH 159 5795MHz		5689.96	51.36	-22.64	74	43.26	32.27	9.39	33.56	215	285	P	H
		5717.64	55.22	-23.08	78.3	47.09	32.31	9.39	33.57	215	285	P	H
		5712.04	42.33	-11.67	54	34.22	32.29	9.39	33.57	215	285	A	H
	*	5795	101.21	-	-	92.9	32.41	9.49	33.59	215	285	P	H
	*	5795	91.89	-	-	83.58	32.41	9.49	33.59	215	285	A	H
		5853.52	54.1	-24.2	78.3	45.66	32.51	9.54	33.61	215	285	P	H
		5870.88	51.96	-22.04	74	43.51	32.53	9.54	33.62	215	285	P	H
		5860	44.6	-9.4	54	36.17	32.51	9.54	33.62	215	285	A	H
		5686.28	51.25	-22.75	74	43.15	32.27	9.39	33.56	209	300	P	V
		5724.6	50.83	-27.47	78.3	42.65	32.31	9.44	33.57	209	300	P	V
		5708.84	42.16	-11.84	54	34.05	32.29	9.39	33.57	209	300	A	V
	*	5795	100.26	-	-	91.95	32.41	9.49	33.59	209	300	P	V
	*	5795	91.43	-	-	83.12	32.41	9.49	33.59	209	300	A	V
		5856.08	55.02	-23.28	78.3	46.58	32.51	9.54	33.61	209	300	P	V
		5872.8	57.11	-16.89	74	48.66	32.53	9.54	33.62	209	300	P	V
		5860.16	44.8	-9.2	54	36.37	32.51	9.54	33.62	209	300	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		7675	42.29	-31.71	74	59.7	36.72	10.82	64.95	100	0	P	H
		11510	47.79	-26.21	74	59.64	39.9	13.95	65.7	100	0	P	H
		17268	44.35	-29.65	74	50.42	41.1	16.95	64.12	100	0	P	H
													H
		7675	42.29	-31.71	74	59.7	36.72	10.82	64.95	100	0	P	V
		11510	46.65	-27.35	74	58.5	39.9	13.95	65.7	100	0	P	V
		17268	42.72	-31.28	74	48.79	41.1	16.95	64.12	100	0	P	V
													V
802.11n HT40 CH 159 5795MHz		11595	56.15	-17.85	74	68.07	39.73	14	65.65	268	32	P	H
		11595	47.08	-6.92	54	59	39.73	14	65.65	268	32	A	H
		17388	42.96	-31.04	74	48.74	41.45	17.03	64.26	100	0	P	H
													H
		11600	53.57	-20.43	74	65.5	39.69	14.02	65.64	338	339	P	V
		11600	44.69	-9.31	54	56.62	39.69	14.02	65.64	338	339	A	V
		17388	44.6	-29.4	74	50.38	41.45	17.03	64.26	100	0	P	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 (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		5714.12	58.46	-15.54	74	50.35	32.29	9.39	33.57	187	262	P	H
		5725	48.43	-5.57	54	40.25	32.31	9.44	33.57	187	262	A	H
	*	5775	95.16	-	-	86.86	32.39	9.49	33.58	187	262	P	H
	*	5775	87.97	-	-	79.67	32.39	9.49	33.58	187	262	A	H
		5850.48	54.52	-19.48	74	46.11	32.48	9.54	33.61	187	262	P	H
		5853.44	44.73	-9.27	54	36.32	32.48	9.54	33.61	187	262	A	H
													H
													H
		5721.4	58.89	-15.11	74	50.76	32.31	9.39	33.57	220	249	P	V
		5724.36	47.25	-6.75	54	39.07	32.31	9.44	33.57	220	249	A	V
	*	5775	93.88	-	-	85.58	32.39	9.49	33.58	220	249	P	V
	*	5775	86.51	-	-	78.21	32.39	9.49	33.58	220	249	A	V
		5857.28	52.62	-21.38	74	44.18	32.51	9.54	33.61	220	249	P	V
		5852.56	43.55	-10.45	54	35.14	32.48	9.54	33.61	220	249	A	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	44.09	-29.91	74	55.99	39.8	13.97	65.67	100	0	P	H
		17328	44.63	-29.37	74	50.56	41.25	17	64.18	100	0	P	H
													H
													H
		11550	43.18	-30.82	74	55.08	39.8	13.97	65.67	100	0	P	V
		17328	43.18	-30.82	74	49.11	41.25	17	64.18	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 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11n HT20 LF		42.42	29.01	-10.99	40	48.88	11.27	0.67	31.81	241	314	P	H
		104.52	27.98	-15.52	43.5	47.66	10.82	1.28	31.78			P	H
		178.5	27.62	-15.88	43.5	49.33	8.43	1.64	31.78			P	H
		897.1	25.06	-20.94	46	32.85	20.1	3.55	31.44			P	H
		902.7	28.66	-17.34	46	36.42	20.1	3.55	31.41			P	H
		951	23.17	-22.83	46	29.94	20.58	3.68	31.03			P	H
													H
													H
													H
													H
													H
													H
		42.15	36.57	-3.43	40	56.29	11.42	0.67	31.81	247	312	P	V
		66.45	24.58	-15.42	40	50.41	4.92	1.04	31.79			P	V
		101.82	21.75	-21.75	43.5	41.86	10.39	1.28	31.78			P	V
		643	21.26	-24.74	46	31.24	19.1	2.96	32.04			P	V
		827.1	21.91	-24.09	46	30.2	20.1	3.4	31.79			P	V
		934.9	23.32	-22.68	46	30.44	20.35	3.68	31.15			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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

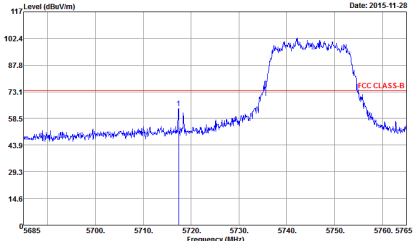
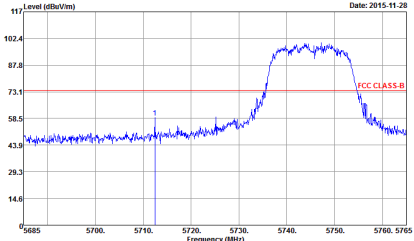
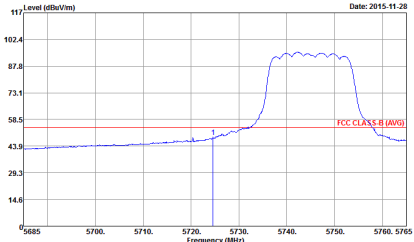
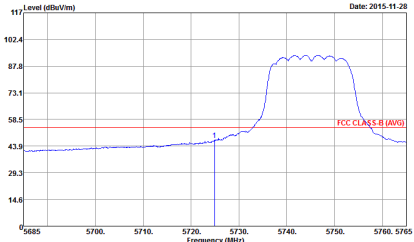


Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Bill Chang, Ken Wu, and J.C. Liang	Temperature :	20~23°C
		Humidity :	54~56%



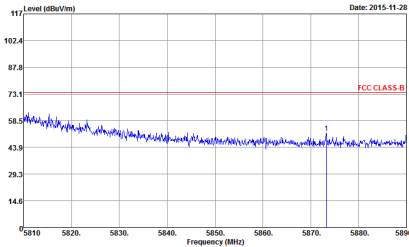
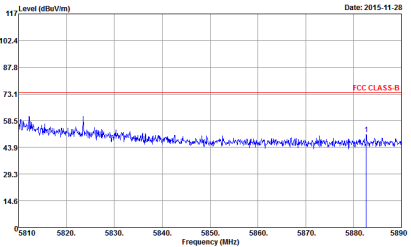
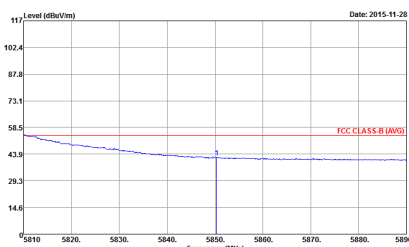
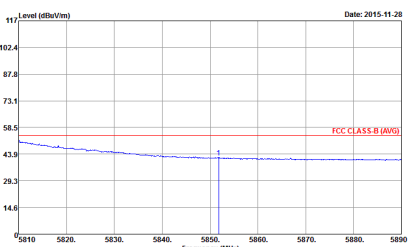
Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																					
ANT	802.11a CH149 5745MHz																																																																					
1+2	Horizontal					Vertical																																																																
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : IO Setting : 5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5717.40</td><td>64.10</td><td>-9.90</td><td>74.00</td><td>55.99</td><td>32.29</td><td>9.39</td><td>33.57</td><td>201 251 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5717.40	64.10	-9.90	74.00	55.99	32.29	9.39	33.57	201 251 Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL Detector : Peak Project : FR 5N0311 Mode : IO Setting : 5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5712.44</td><td>58.90</td><td>-15.10</td><td>74.00</td><td>50.79</td><td>32.29</td><td>9.39</td><td>33.57</td><td>194 225 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5712.44	58.90	-15.10	74.00	50.79	32.29	9.39	33.57	194 225 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																													
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1	5712.44	58.90	-15.10	74.00	50.79	32.29	9.39	33.57	194 225 Peak																																																													
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : IO Setting : 5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5724.60</td><td>48.86</td><td>-5.14</td><td>54.00</td><td>40.68</td><td>32.31</td><td>9.44</td><td>33.57</td><td>201 251 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5724.60	48.86	-5.14	54.00	40.68	32.31	9.44	33.57	201 251 Average	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : FR 5N0311 Mode : IO Setting : 5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5724.92</td><td>47.16</td><td>-6.84</td><td>54.00</td><td>38.90</td><td>32.31</td><td>9.44</td><td>33.57</td><td>194 225 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5724.92	47.16	-6.84	54.00	38.90	32.31	9.44	33.57	194 225 Average
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																												
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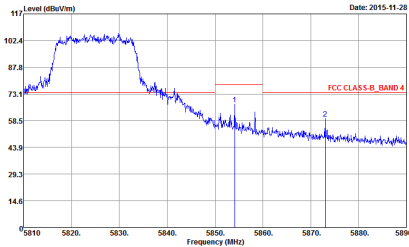
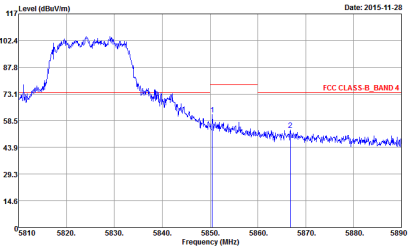
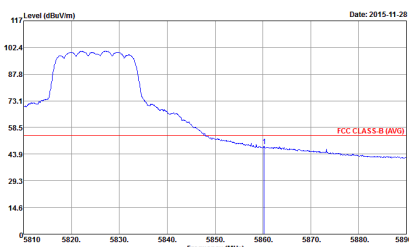
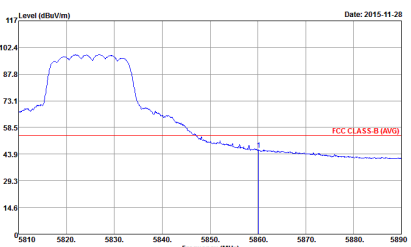


WIFI	Band 4 5725~5850MHz Band Edge @ 3m									
ANT	802.11a CH157 5785MHz - L									
1+2	Horizontal					Vertical				
Peak	Level (dBuV/m)									



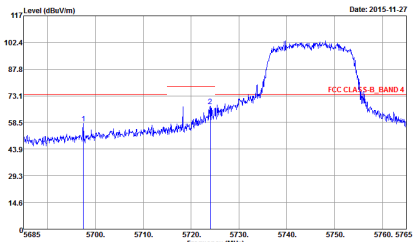
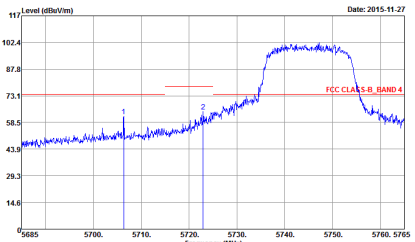
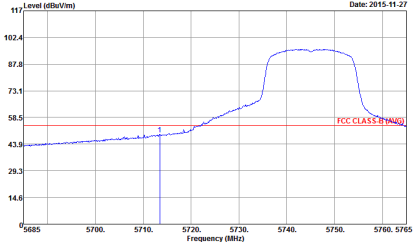
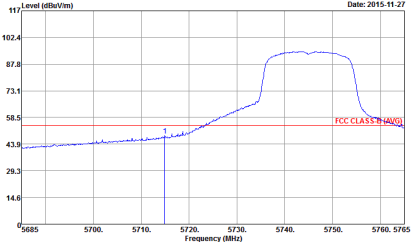
WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																			
ANT	802.11a CH157 5785MHz - R																																																																			
1+2	Horizontal					Vertical																																																														
Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : II <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5873.28</td><td>51.98</td><td>-22.02</td><td>74.00</td><td>43.53</td><td>32.53</td><td>9.54</td><td>33.62</td><td>197</td><td>260 Peak</td></tr></table>					Freq	Level	Over Limit	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5873.28	51.98	-22.02	74.00	43.53	32.53	9.54	33.62	197	260 Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : II <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5882.64</td><td>51.27</td><td>-22.73</td><td>74.00</td><td>42.79</td><td>32.53</td><td>9.57</td><td>33.62</td><td>190</td><td>242 Peak</td></tr></table>					Freq	Level	Over Limit	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5882.64	51.27	-22.73	74.00	42.79	32.53	9.57	33.62	190	242 Peak
	Freq	Level	Over Limit	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos	Remark																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																											
1	5873.28	51.98	-22.02	74.00	43.53	32.53	9.54	33.62	197	260 Peak																																																										
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MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																											
1	5882.64	51.27	-22.73	74.00	42.79	32.53	9.57	33.62	190	242 Peak																																																										
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : II <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5850.32</td><td>42.13</td><td>-11.87</td><td>54.00</td><td>33.72</td><td>32.48</td><td>9.54</td><td>33.61</td><td>197</td><td>260 Average</td></tr></table>					Freq	Level	Over Limit	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5850.32	42.13	-11.87	54.00	33.72	32.48	9.54	33.61	197	260 Average	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : II <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5851.04</td><td>41.99</td><td>-12.01</td><td>54.00</td><td>33.58</td><td>32.48</td><td>9.54</td><td>33.61</td><td>190</td><td>242 Average</td></tr></table>					Freq	Level	Over Limit	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5851.04	41.99	-12.01	54.00	33.58	32.48	9.54	33.61	190	242 Average
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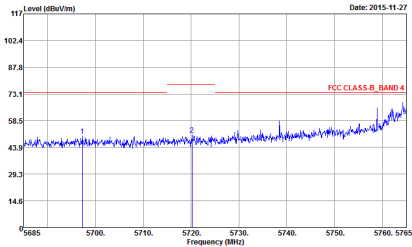
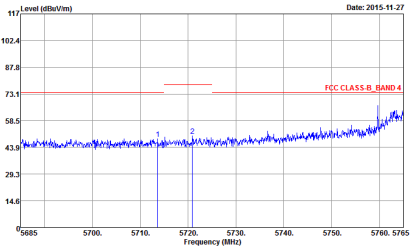
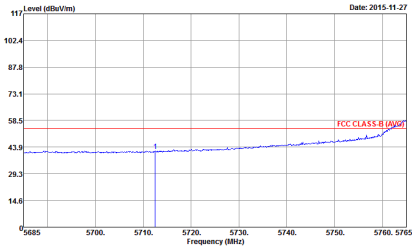
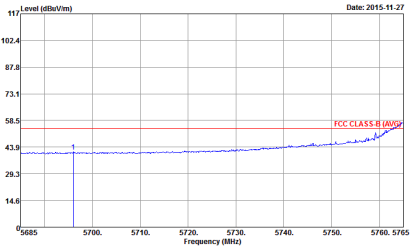
WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																													
ANT	802.11a CH165 5825MHz																																																																																													
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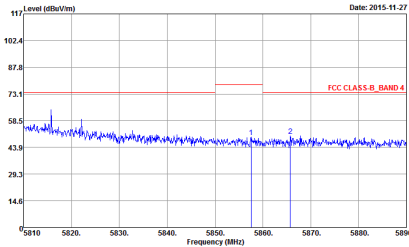
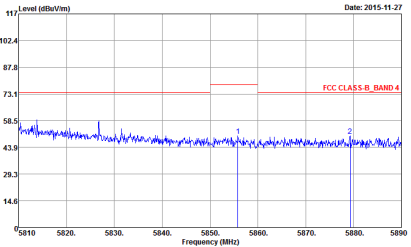
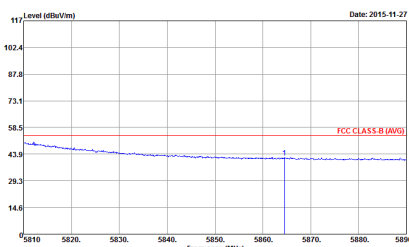
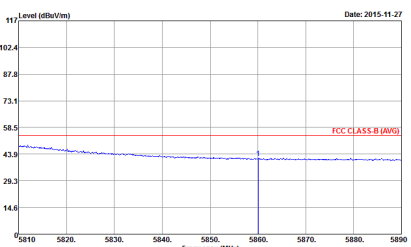
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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 : FR 5N0311 Mode : Z2 <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5697.48</td><td>58.01</td><td>-15.99</td><td>74.00</td><td>49.91</td><td>32.27</td><td>9.39</td><td>33.56</td><td>215</td><td>287 Peak</td></tr><tr><td>2</td><td>5724.04</td><td>67.52</td><td>-10.78</td><td>78.30</td><td>59.34</td><td>32.31</td><td>9.44</td><td>33.57</td><td>215</td><td>287 Peak</td></tr></table>					Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5697.48	58.01	-15.99	74.00	49.91	32.27	9.39	33.56	215	287 Peak	2	5724.04	67.52	-10.78	78.30	59.34	32.31	9.44	33.57	215	287 Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF VERTICAL Detector : Peak Project : FR 5N0311 Mode : Z2 <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5706.36</td><td>61.80</td><td>-12.20</td><td>74.00</td><td>53.69</td><td>32.29</td><td>9.39</td><td>33.57</td><td>204</td><td>305 Peak</td></tr><tr><td>2</td><td>5722.92</td><td>64.45</td><td>-13.85</td><td>78.30</td><td>56.27</td><td>32.31</td><td>9.44</td><td>33.57</td><td>204</td><td>305 Peak</td></tr></table>					Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5706.36	61.80	-12.20	74.00	53.69	32.29	9.39	33.57	204	305 Peak	2	5722.92	64.45	-13.85	78.30	56.27	32.31	9.44	33.57	204	305 Peak
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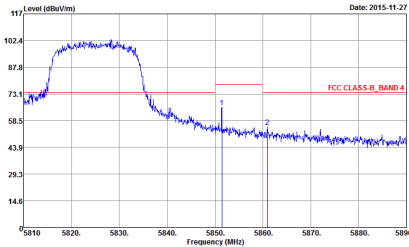
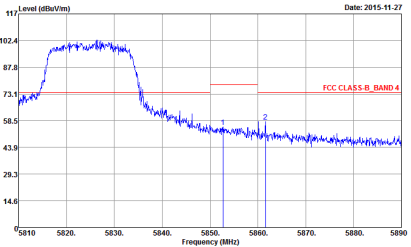
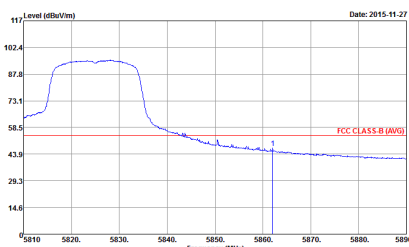
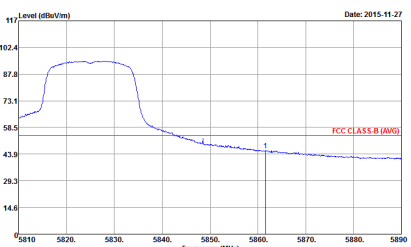


WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																									
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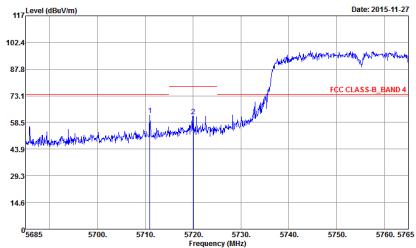
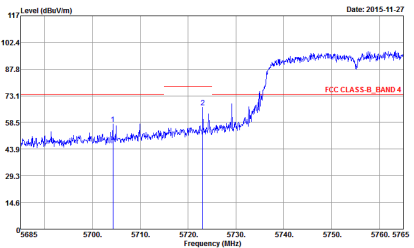
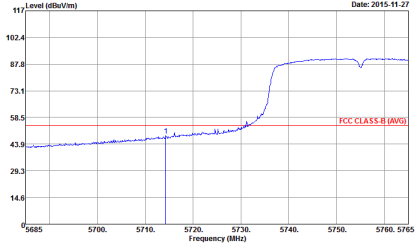
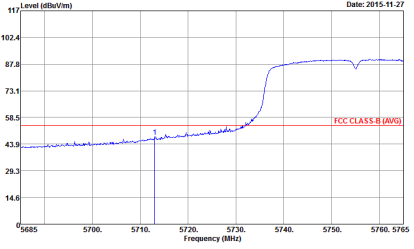
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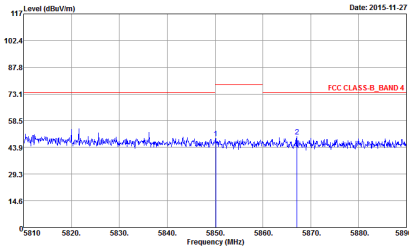
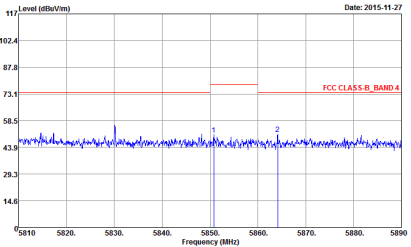
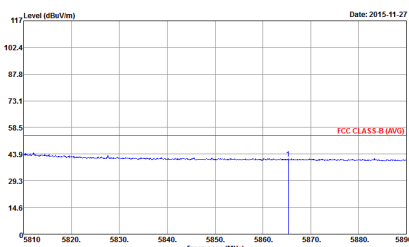
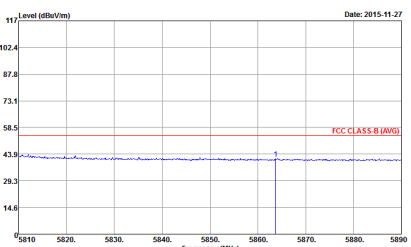
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1	5862.08	47.21	-6.79	54.00	38.78	32.51	9.54	33.62	287 285 Average																																																																																	
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1	5861.60	46.09	-7.91	54.00	37.66	32.51	9.54	33.62	221 305 Average																																																																																	



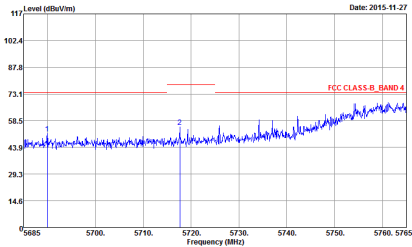
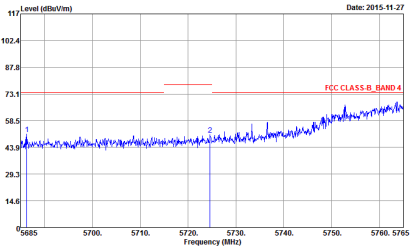
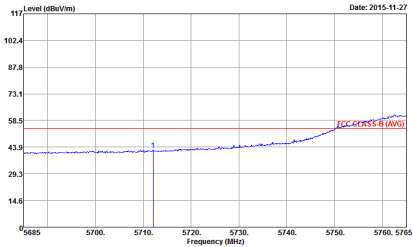
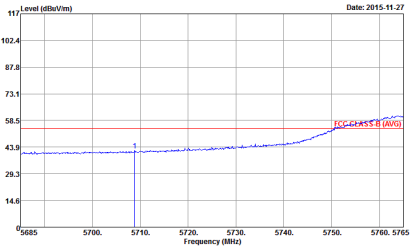
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																								
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Peak																																																																																									
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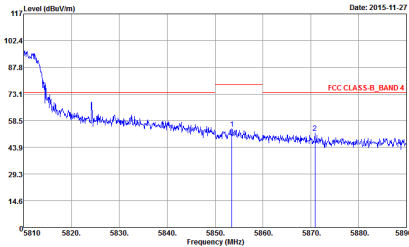
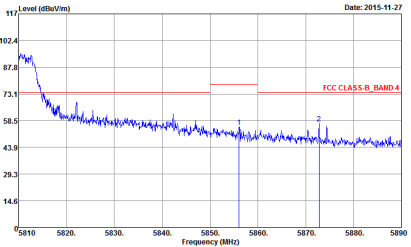
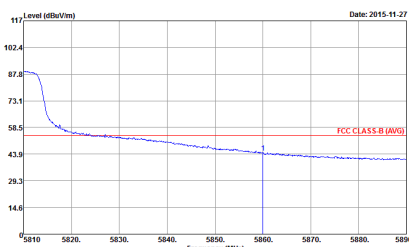
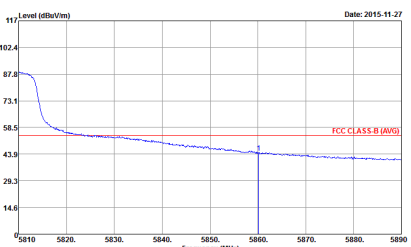


WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																													
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1	5850.80	50.68	-27.62	78.30	42.27	32.48	9.54	33.61	210	293 Peak																																																																																				
2	5864.16	51.19	-22.81	74.00	42.76	32.51	9.54	33.62	210	293 Peak																																																																																				
Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : 32 Setting : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5865.28</td><td>41.51</td><td>-12.49</td><td>54.00</td><td>33.08</td><td>32.51</td><td>9.54</td><td>33.62</td><td>221</td><td>291 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5865.28	41.51	-12.49	54.00	33.08	32.51	9.54	33.62	221	291 Average	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : FR 5N0311 Mode : 32 Setting : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5863.68</td><td>41.45</td><td>-12.55</td><td>54.00</td><td>33.02</td><td>32.51</td><td>9.54</td><td>33.62</td><td>210</td><td>293 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5863.68	41.45	-12.55	54.00	33.02	32.51	9.54	33.62	210	293 Average																						
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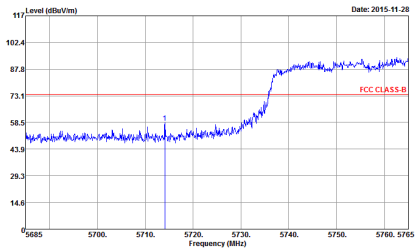
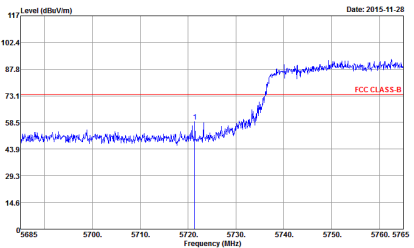
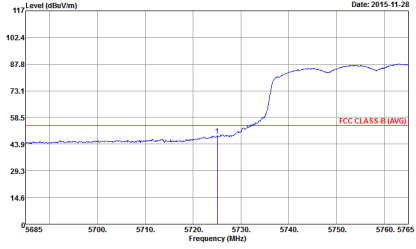
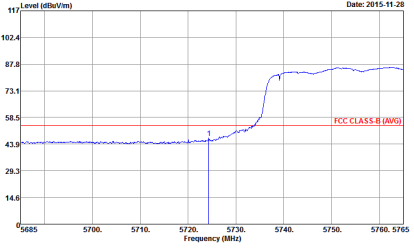
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Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : 33 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5689.96</td><td>51.36</td><td>-22.64</td><td>74.00</td><td>43.26</td><td>32.27</td><td>9.39</td><td>33.56</td><td>215 285 Peak</td></tr><tr><td>2</td><td>5717.64</td><td>55.22</td><td>-23.08</td><td>78.30</td><td>47.09</td><td>32.31</td><td>9.39</td><td>33.57</td><td>215 285 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5689.96	51.36	-22.64	74.00	43.26	32.27	9.39	33.56	215 285 Peak	2	5717.64	55.22	-23.08	78.30	47.09	32.31	9.39	33.57	215 285 Peak	 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 : FR 5N0311 Mode : 33 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5686.28</td><td>51.25</td><td>-22.75</td><td>74.00</td><td>43.15</td><td>32.27</td><td>9.39</td><td>33.56</td><td>209 300 Peak</td></tr><tr><td>2</td><td>5724.60</td><td>50.83</td><td>-27.47</td><td>78.30</td><td>42.65</td><td>32.31</td><td>9.44</td><td>33.57</td><td>209 300 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5686.28	51.25	-22.75	74.00	43.15	32.27	9.39	33.56	209 300 Peak	2	5724.60	50.83	-27.47	78.30	42.65	32.31	9.44	33.57	209 300 Peak
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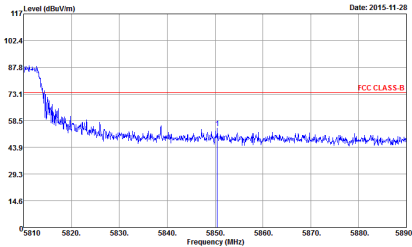
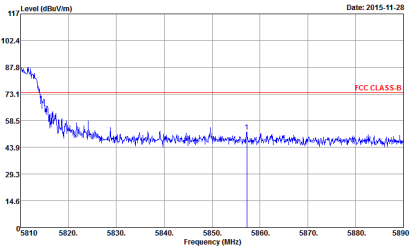
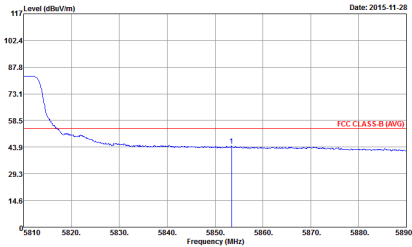
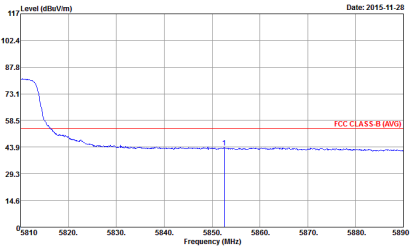
WIFI	Band 4 5725~5850MHz Band Edge @ 3m																																																																																									
ANT	802.11n HT40 CH159 5795MHz - R																																																																																									
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Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : 38 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5853.44</td><td>44.73</td><td>-9.27</td><td>54.00</td><td>36.32</td><td>32.48</td><td>9.54</td><td>33.61</td><td>187 262 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5853.44	44.73	-9.27	54.00	36.32	32.48	9.54	33.61	187 262 Average	 Site : 03CH11-HY Condition : FCC CLASS-B (AVG) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : FR 5N0311 Mode : 38 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5852.56</td><td>43.55</td><td>-10.45</td><td>54.00</td><td>35.14</td><td>32.48</td><td>9.54</td><td>33.61</td><td>220 249 Average</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	5852.56	43.55	-10.45	54.00	35.14	32.48	9.54	33.61	220 249 Average
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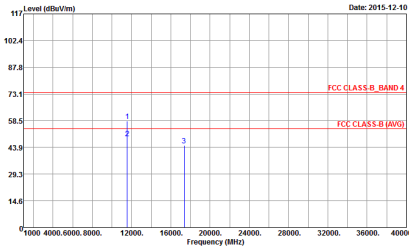
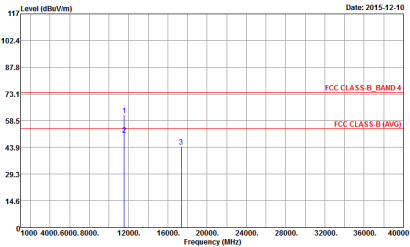


Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m										
ANT	802.11a CH149 5745MHz										
1+2	Horizontal										Vertical
Peak Avg.	<										



WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																																																													
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1+2	Horizontal					Vertical																																																																																																								
Peak Avg.																																																																																																														
	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : II <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 11570.00</td><td>58.42</td><td>-15.58</td><td>74.00</td><td>70.32</td><td>39.76</td><td>14.00</td><td>65.66</td><td>100</td><td>249 Peak</td></tr><tr><td>2 11570.00</td><td>48.89</td><td>-5.11</td><td>54.00</td><td>60.79</td><td>39.76</td><td>14.00</td><td>65.66</td><td>100</td><td>249 Average</td></tr><tr><td>3 17355.00</td><td>45.13</td><td>-28.87</td><td>74.00</td><td>50.97</td><td>41.35</td><td>17.03</td><td>64.22</td><td>100</td><td>0 Peak</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11570.00	58.42	-15.58	74.00	70.32	39.76	14.00	65.66	100	249 Peak	2 11570.00	48.89	-5.11	54.00	60.79	39.76	14.00	65.66	100	249 Average	3 17355.00	45.13	-28.87	74.00	50.97	41.35	17.03	64.22	100	0 Peak	Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : II <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 11570.00</td><td>61.75</td><td>-12.25</td><td>74.00</td><td>73.65</td><td>39.76</td><td>14.00</td><td>65.66</td><td>100</td><td>91 Peak</td></tr><tr><td>2 11570.00</td><td>50.79</td><td>-3.21</td><td>54.00</td><td>62.69</td><td>39.76</td><td>14.00</td><td>65.66</td><td>100</td><td>91 Average</td></tr><tr><td>3 17355.00</td><td>44.38</td><td>-29.62</td><td>74.00</td><td>50.22</td><td>41.35</td><td>17.03</td><td>64.22</td><td>100</td><td>0 Peak</td></tr></tbody></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11570.00	61.75	-12.25	74.00	73.65	39.76	14.00	65.66	100	91 Peak	2 11570.00	50.79	-3.21	54.00	62.69	39.76	14.00	65.66	100	91 Average	3 17355.00	44.38	-29.62	74.00	50.22	41.35	17.03	64.22	100	0 Peak
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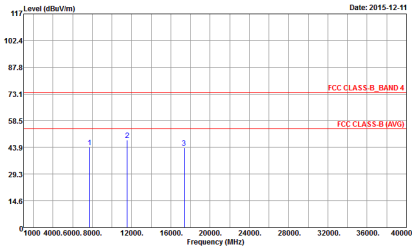
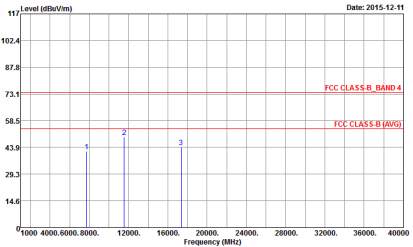
WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																																																													
ANT	802.11a CH165 5825MHz																																																																																																													
1+2	Horizontal					Vertical																																																																																																								
Peak Avg.	Level (dBuV/m) Date: 2015-12-10 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : I2 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11650.00</td><td>58.41</td><td>-15.59</td><td>74.00</td><td>70.36</td><td>39.62</td><td>14.05</td><td>65.62</td><td>100</td><td>254 Peak</td></tr><tr><td>2 11658.00</td><td>48.47</td><td>-5.53</td><td>54.00</td><td>60.42</td><td>39.62</td><td>14.05</td><td>65.62</td><td>100</td><td>254 Average</td></tr><tr><td>3 17475.00</td><td>43.37</td><td>-30.63</td><td>74.00</td><td>48.93</td><td>41.70</td><td>17.10</td><td>64.36</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11650.00	58.41	-15.59	74.00	70.36	39.62	14.05	65.62	100	254 Peak	2 11658.00	48.47	-5.53	54.00	60.42	39.62	14.05	65.62	100	254 Average	3 17475.00	43.37	-30.63	74.00	48.93	41.70	17.10	64.36	100	0 Peak	Level (dBuV/m) Date: 2015-12-10 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : I2 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11650.00</td><td>61.91</td><td>-12.09</td><td>74.00</td><td>73.86</td><td>39.62</td><td>14.05</td><td>65.62</td><td>118</td><td>94 Peak</td></tr><tr><td>2 11658.00</td><td>50.82</td><td>-3.18</td><td>54.00</td><td>62.77</td><td>39.62</td><td>14.05</td><td>65.62</td><td>118</td><td>94 Average</td></tr><tr><td>3 17475.00</td><td>43.78</td><td>-30.22</td><td>74.00</td><td>49.34</td><td>41.70</td><td>17.10</td><td>64.36</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11650.00	61.91	-12.09	74.00	73.86	39.62	14.05	65.62	118	94 Peak	2 11658.00	50.82	-3.18	54.00	62.77	39.62	14.05	65.62	118	94 Average	3 17475.00	43.78	-30.22	74.00	49.34	41.70	17.10	64.36	100	0 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																				
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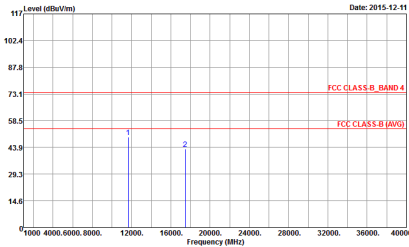
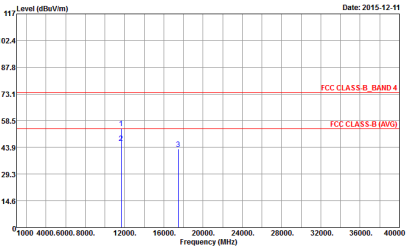
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m											
ANT	802.11n HT20 CH149 5745MHz											
1+2	Horizontal						Vertical					
Peak Avg.												



WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																																																																								
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Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : Z3 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7715.00</td><td>43.88</td><td>-30.12</td><td>74.00</td><td>61.18</td><td>36.76</td><td>10.87</td><td>64.93</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>11578.00</td><td>47.86</td><td>-26.14</td><td>74.00</td><td>59.76</td><td>39.76</td><td>14.00</td><td>65.66</td><td>100</td><td>0 Peak</td></tr><tr><td>3</td><td>17355.00</td><td>43.83</td><td>-30.17</td><td>74.00</td><td>49.67</td><td>41.35</td><td>17.03</td><td>64.22</td><td>100</td><td>0 Peak</td></tr></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	7715.00	43.88	-30.12	74.00	61.18	36.76	10.87	64.93	100	0 Peak	2	11578.00	47.86	-26.14	74.00	59.76	39.76	14.00	65.66	100	0 Peak	3	17355.00	43.83	-30.17	74.00	49.67	41.35	17.03	64.22	100	0 Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : Z3 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7715.00</td><td>41.84</td><td>-32.16</td><td>74.00</td><td>59.14</td><td>36.76</td><td>10.87</td><td>64.93</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>11578.00</td><td>49.42</td><td>-24.58</td><td>74.00</td><td>61.29</td><td>39.80</td><td>14.00</td><td>65.67</td><td>100</td><td>0 Peak</td></tr><tr><td>3</td><td>17355.00</td><td>43.87</td><td>-30.13</td><td>74.00</td><td>49.71</td><td>41.35</td><td>17.03</td><td>64.22</td><td>100</td><td>0 Peak</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	7715.00	41.84	-32.16	74.00	59.14	36.76	10.87	64.93	100	0 Peak	2	11578.00	49.42	-24.58	74.00	61.29	39.80	14.00	65.67	100	0 Peak	3	17355.00	43.87	-30.13	74.00	49.71	41.35	17.03	64.22	100	0 Peak
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ANT	802.11n HT20 CH165 5825MHz																																																																																																								
1+2	Horizontal					Vertical																																																																																																			
Peak Avg.	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : 24 : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>11645.00</td><td>49.39</td><td>-24.61</td><td>74.00</td><td>61.34</td><td>39.62</td><td>14.05</td><td>65.62</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>17472.00</td><td>42.87</td><td>-31.13</td><td>74.00</td><td>48.45</td><td>41.70</td><td>17.08</td><td>64.36</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	11645.00	49.39	-24.61	74.00	61.34	39.62	14.05	65.62	100	0 Peak	2	17472.00	42.87	-31.13	74.00	48.45	41.70	17.08	64.36	100	0 Peak	 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : 24 : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>11645.00</td><td>54.54</td><td>-19.46</td><td>74.00</td><td>66.49</td><td>39.62</td><td>14.05</td><td>65.62</td><td>121</td><td>98 Peak</td></tr><tr><td>2</td><td>11645.00</td><td>46.44</td><td>-7.56</td><td>54.00</td><td>58.39</td><td>39.62</td><td>14.05</td><td>65.62</td><td>121</td><td>98 Average</td></tr><tr><td>3</td><td>17472.00</td><td>43.16</td><td>-30.84</td><td>74.00</td><td>48.74</td><td>41.70</td><td>17.08</td><td>64.36</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	11645.00	54.54	-19.46	74.00	66.49	39.62	14.05	65.62	121	98 Peak	2	11645.00	46.44	-7.56	54.00	58.39	39.62	14.05	65.62	121	98 Average	3	17472.00	43.16	-30.84	74.00	48.74	41.70	17.08	64.36	100	0 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark																																																																																															
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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.	Level (dBuV/m) Date: 2015-12-11 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : 32 Setting : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7675.00</td><td>42.29</td><td>-31.71</td><td>74.00</td><td>59.70</td><td>36.72</td><td>10.82</td><td>64.95</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>11518.00</td><td>47.79</td><td>-26.21</td><td>74.00</td><td>59.64</td><td>39.90</td><td>13.95</td><td>65.70</td><td>100</td><td>0 Peak</td></tr><tr><td>3</td><td>17268.00</td><td>44.35</td><td>-29.65</td><td>74.00</td><td>50.42</td><td>41.10</td><td>16.95</td><td>64.12</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	7675.00	42.29	-31.71	74.00	59.70	36.72	10.82	64.95	100	0 Peak	2	11518.00	47.79	-26.21	74.00	59.64	39.90	13.95	65.70	100	0 Peak	3	17268.00	44.35	-29.65	74.00	50.42	41.10	16.95	64.12	100	0 Peak	Level (dBuV/m) Date: 2015-12-11 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : 32 Setting : 6 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Pream</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>7675.00</td><td>42.29</td><td>-31.71</td><td>74.00</td><td>59.70</td><td>36.72</td><td>10.82</td><td>64.95</td><td>100</td><td>0 Peak</td></tr><tr><td>2</td><td>11518.00</td><td>46.65</td><td>-27.35</td><td>74.00</td><td>58.50</td><td>39.90</td><td>13.95</td><td>65.70</td><td>100</td><td>0 Peak</td></tr><tr><td>3</td><td>17268.00</td><td>42.72</td><td>-31.28</td><td>74.00</td><td>48.79</td><td>41.10</td><td>16.95</td><td>64.12</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	7675.00	42.29	-31.71	74.00	59.70	36.72	10.82	64.95	100	0 Peak	2	11518.00	46.65	-27.35	74.00	58.50	39.90	13.95	65.70	100	0 Peak	3	17268.00	42.72	-31.28	74.00	48.79	41.10	16.95	64.12	100	0 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Pream	A/Pos	T/Pos	Remark																																																																																																										
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WIFI	Band 4 5725~5850MHz Harmonic @ 3m																																																																																																													
ANT	802.11n HT40 CH159 5795MHz																																																																																																													
1+2	Horizontal					Vertical																																																																																																								
Peak Avg.	Level (dBuV/m) Date: 2015-12-11 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : 33 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11595.00</td><td>56.15</td><td>-17.85</td><td>74.00</td><td>68.07</td><td>39.73</td><td>14.00</td><td>65.65</td><td>268</td><td>32 Peak</td></tr><tr><td>2 11595.00</td><td>47.08</td><td>-6.92</td><td>54.00</td><td>59.00</td><td>39.73</td><td>14.00</td><td>65.65</td><td>268</td><td>32 Average</td></tr><tr><td>3 17388.00</td><td>42.96</td><td>-31.04</td><td>74.00</td><td>48.74</td><td>41.45</td><td>17.03</td><td>64.26</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11595.00	56.15	-17.85	74.00	68.07	39.73	14.00	65.65	268	32 Peak	2 11595.00	47.08	-6.92	54.00	59.00	39.73	14.00	65.65	268	32 Average	3 17388.00	42.96	-31.04	74.00	48.74	41.45	17.03	64.26	100	0 Peak	Level (dBuV/m) Date: 2015-12-11 Site : 03CH11-HY Condition : FCC CLASS-B_BAND 4 3m 9170 SHF HORM_I50809 VERTICAL Detector : Peak Project : FR 5N0311 Mode : 33 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 11600.00</td><td>53.57</td><td>-20.43</td><td>74.00</td><td>65.50</td><td>39.69</td><td>14.02</td><td>65.64</td><td>338</td><td>339 Peak</td></tr><tr><td>2 11600.00</td><td>44.69</td><td>-9.31</td><td>54.00</td><td>56.62</td><td>39.69</td><td>14.02</td><td>65.64</td><td>338</td><td>339 Average</td></tr><tr><td>3 17388.00</td><td>44.60</td><td>-29.40</td><td>74.00</td><td>50.38</td><td>41.45</td><td>17.03</td><td>64.26</td><td>100</td><td>0 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 11600.00	53.57	-20.43	74.00	65.50	39.69	14.02	65.64	338	339 Peak	2 11600.00	44.69	-9.31	54.00	56.62	39.69	14.02	65.64	338	339 Average	3 17388.00	44.60	-29.40	74.00	50.38	41.45	17.03	64.26	100	0 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																				
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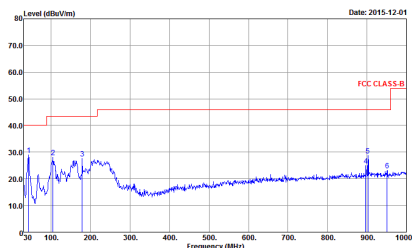
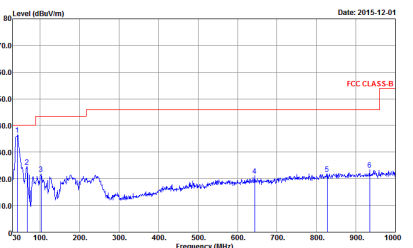


Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m									
ANT	802.11ac VHT80 CH155 5775MHz									
1+2	Horizontal					Vertical				
Peak Avg.										



Emission below 1GHz
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz 5725~5850MHz																																																																																																																																																																																	
ANT	802.11n HT20 LF																																																																																																																																																																																	
1+2	Horizontal	Vertical																																																																																																																																																																																
QP / Peak	 Site : 03CH11-HY Condition : FCC CLASS-B 3m CBL6112 HORIZONTAL Detector : Peak Project : FR 5N0311 Mode : 44 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>42.42</td><td>29.01</td><td>-10.99</td><td>40.00</td><td>48.88</td><td>11.27</td><td>0.67</td><td>31.81</td><td>241</td><td>314 Peak</td></tr><tr><td>2</td><td>104.52</td><td>27.98</td><td>-15.52</td><td>43.50</td><td>47.66</td><td>10.82</td><td>1.28</td><td>31.78</td><td>---</td><td>---</td></tr><tr><td>3</td><td>178.50</td><td>27.62</td><td>-15.88</td><td>43.50</td><td>49.33</td><td>8.43</td><td>1.64</td><td>31.78</td><td>---</td><td>---</td></tr><tr><td>4</td><td>897.10</td><td>25.06</td><td>-20.94</td><td>46.00</td><td>32.85</td><td>20.10</td><td>3.55</td><td>31.44</td><td>---</td><td>---</td></tr><tr><td>5</td><td>902.70</td><td>28.66</td><td>-17.34</td><td>46.00</td><td>36.42</td><td>20.10</td><td>3.55</td><td>31.41</td><td>---</td><td>---</td></tr><tr><td>6</td><td>951.00</td><td>23.17</td><td>-22.83</td><td>46.00</td><td>29.94</td><td>20.58</td><td>3.68</td><td>31.03</td><td>---</td><td>---</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	42.42	29.01	-10.99	40.00	48.88	11.27	0.67	31.81	241	314 Peak	2	104.52	27.98	-15.52	43.50	47.66	10.82	1.28	31.78	---	---	3	178.50	27.62	-15.88	43.50	49.33	8.43	1.64	31.78	---	---	4	897.10	25.06	-20.94	46.00	32.85	20.10	3.55	31.44	---	---	5	902.70	28.66	-17.34	46.00	36.42	20.10	3.55	31.41	---	---	6	951.00	23.17	-22.83	46.00	29.94	20.58	3.68	31.03	---	---	 Site : 03CH11-HY Condition : FCC CLASS-B 3m CBL6112 VERTICAL Detector : Peak Project : FR 5N0311 Mode : 44 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>42.15</td><td>36.57</td><td>-3.43</td><td>40.00</td><td>56.29</td><td>11.42</td><td>0.67</td><td>31.81</td><td>247</td><td>312 Peak</td></tr><tr><td>2</td><td>66.45</td><td>24.58</td><td>-15.42</td><td>40.00</td><td>50.41</td><td>4.92</td><td>1.04</td><td>31.79</td><td>---</td><td>---</td></tr><tr><td>3</td><td>101.82</td><td>21.75</td><td>-21.75</td><td>43.50</td><td>41.86</td><td>10.39</td><td>1.28</td><td>31.78</td><td>---</td><td>---</td></tr><tr><td>4</td><td>643.00</td><td>21.26</td><td>-24.74</td><td>46.00</td><td>31.24</td><td>19.10</td><td>2.96</td><td>32.04</td><td>---</td><td>---</td></tr><tr><td>5</td><td>827.10</td><td>21.91</td><td>-24.09</td><td>46.00</td><td>30.20</td><td>20.10</td><td>3.40</td><td>31.79</td><td>---</td><td>---</td></tr><tr><td>6</td><td>934.90</td><td>23.32</td><td>-22.68</td><td>46.00</td><td>30.44</td><td>20.35</td><td>3.68</td><td>31.15</td><td>---</td><td>---</td></tr></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	42.15	36.57	-3.43	40.00	56.29	11.42	0.67	31.81	247	312 Peak	2	66.45	24.58	-15.42	40.00	50.41	4.92	1.04	31.79	---	---	3	101.82	21.75	-21.75	43.50	41.86	10.39	1.28	31.78	---	---	4	643.00	21.26	-24.74	46.00	31.24	19.10	2.96	32.04	---	---	5	827.10	21.91	-24.09	46.00	30.20	20.10	3.40	31.79	---	---	6	934.90	23.32	-22.68	46.00	30.44	20.35	3.68	31.15	---	---
		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																							
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																								
1	42.42	29.01	-10.99	40.00	48.88	11.27	0.67	31.81	241	314 Peak																																																																																																																																																																								
2	104.52	27.98	-15.52	43.50	47.66	10.82	1.28	31.78	---	---																																																																																																																																																																								
3	178.50	27.62	-15.88	43.50	49.33	8.43	1.64	31.78	---	---																																																																																																																																																																								
4	897.10	25.06	-20.94	46.00	32.85	20.10	3.55	31.44	---	---																																																																																																																																																																								
5	902.70	28.66	-17.34	46.00	36.42	20.10	3.55	31.41	---	---																																																																																																																																																																								
6	951.00	23.17	-22.83	46.00	29.94	20.58	3.68	31.03	---	---																																																																																																																																																																								
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																								
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																								
1	42.15	36.57	-3.43	40.00	56.29	11.42	0.67	31.81	247	312 Peak																																																																																																																																																																								
2	66.45	24.58	-15.42	40.00	50.41	4.92	1.04	31.79	---	---																																																																																																																																																																								
3	101.82	21.75	-21.75	43.50	41.86	10.39	1.28	31.78	---	---																																																																																																																																																																								
4	643.00	21.26	-24.74	46.00	31.24	19.10	2.96	32.04	---	---																																																																																																																																																																								
5	827.10	21.91	-24.09	46.00	30.20	20.10	3.40	31.79	---	---																																																																																																																																																																								
6	934.90	23.32	-22.68	46.00	30.44	20.35	3.68	31.15	---	---																																																																																																																																																																								