FCC RF Test Report

APPLICANT	**:**	**Triesan LLC**
EQUIPMENT	**:**	**Tablet PC**
MODEL NAME	**:**	**SR043KL**
FCC ID	**:**	**2AIP3-8320**
STANDARD	**:**	**FCC Part 15 Subpart E §15.407**
CLASSIFICATION	**:**	**(NII) Unlicensed National Information Infrastructure**

The testing was completed on Nov. 15, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR670616-01E	Rev. 01	Initial issue of report	Nov. 15, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
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	15.407(b)(4)(i) &15.209(a)	Pass
3.5	15.207	AC Conducted Emission	15.207(a)	Pass
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

Triesan LLC
8201 Peters Rd., Suite 1000
Plantation, Florida 33324

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Model Name	SR043KL
FCC ID	2AIP3-8320
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 Bluetooth BR/EDR/LE

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	802.11a : 13.80 dBm / 0.0240 W 802.11n HT20 : 13.82 dBm / 0.0241 W 802.11n HT40 : 13.85 dBm / 0.0243 W
99% Occupied Bandwidth	802.11a : 17.50 MHz 802.11n HT20 : 18.15 MHz 802.11n HT40 : 36.30 MHz
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Antenna Type / Gain	Monopole Antenna with gain 0.19 dBi

1.4 Modification of EUT

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

1.5 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	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.**
	03CH13-HY

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

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

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

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

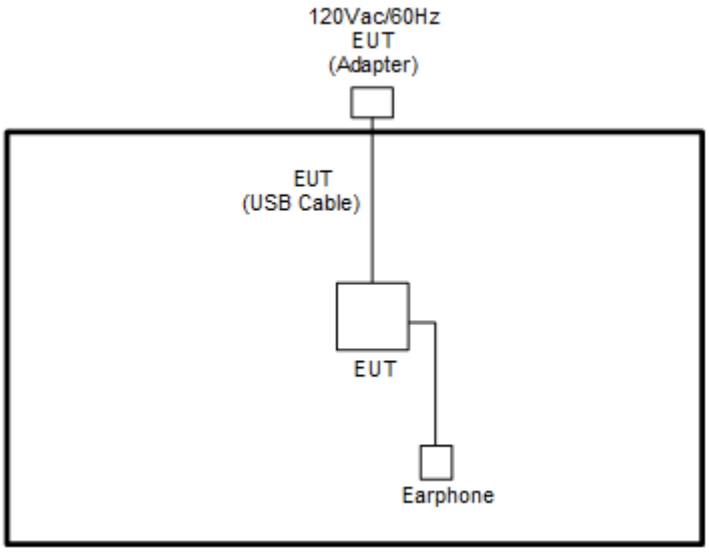
Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20	**MCS0**
802.11n HT40	**MCS0**

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card

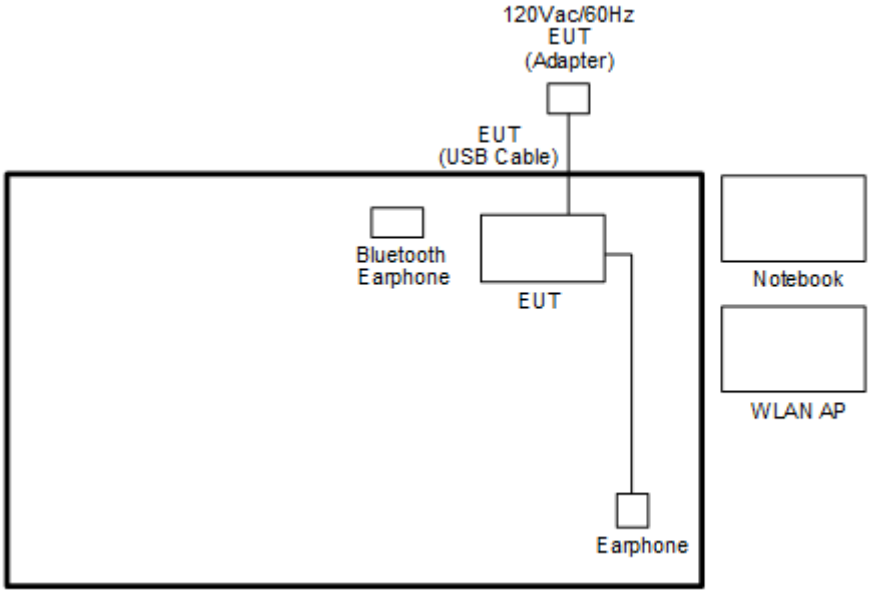
Ch. #		Band IV：5725-5850 MHz		
		802.11a	**802.11n HT20**	**802.11n HT40**
L	**Low**	149	149	151
M	**Middle**	157	157	-
H	**High**	165	165	159

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E5570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
5.	Earphone	N/A	N/A	N/A	Unshielded, 1.15m	N/A

2.5 EUT Operation Test Setup

The programmed RF utility “EngineerMode”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

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

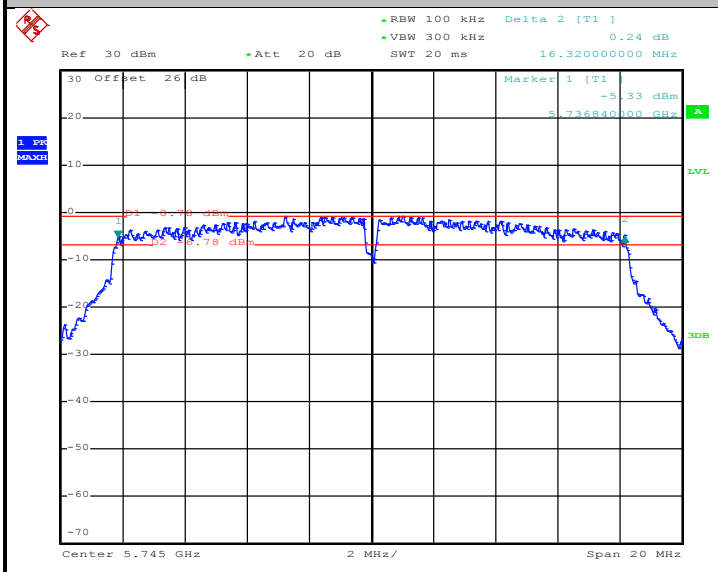
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup

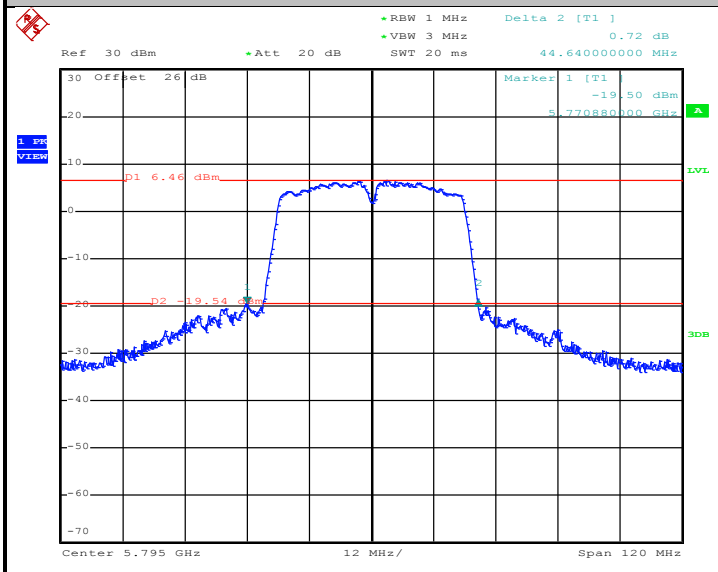
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

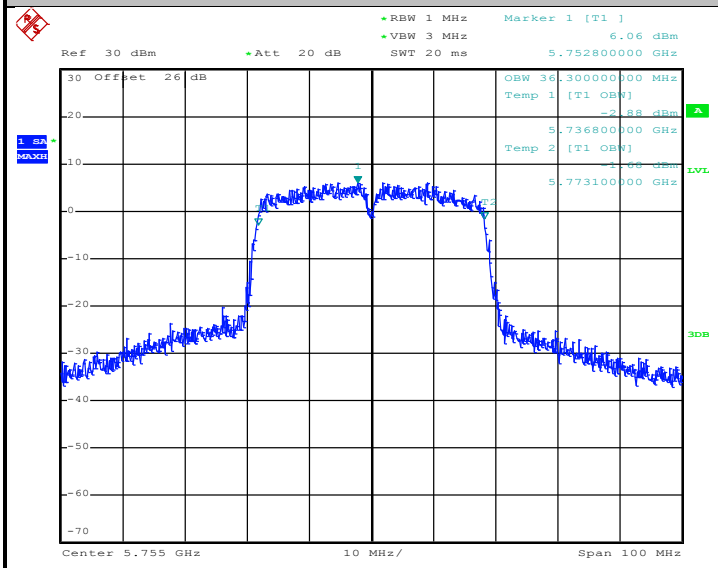
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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.

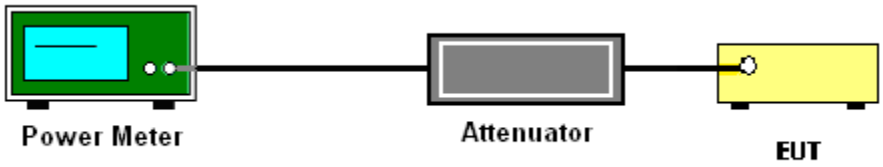
3.2.3 Test Procedures

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

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 v01r03. Section F) Maximum power spectral density.

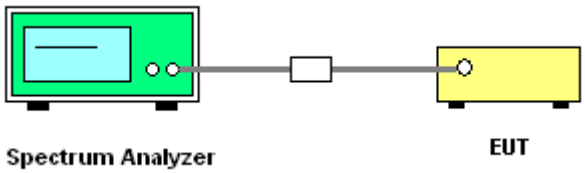
 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(500kHz/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.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

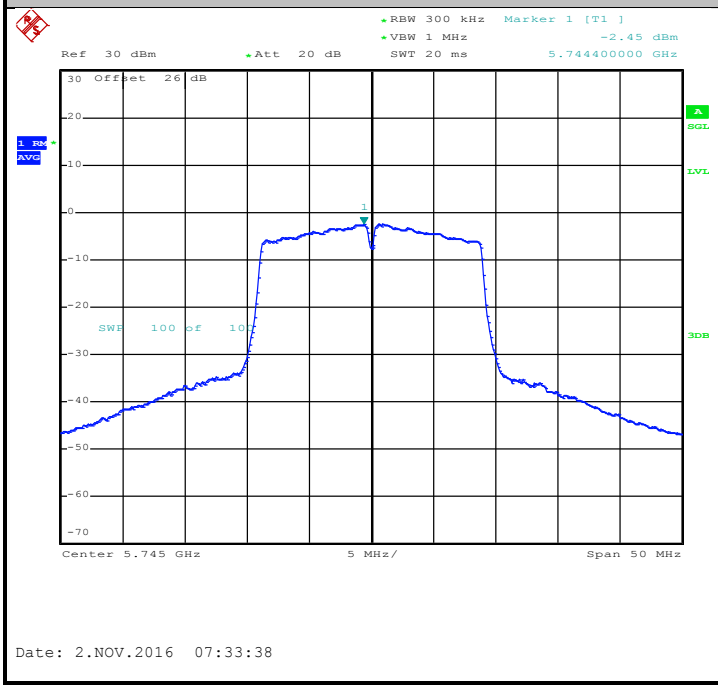
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/300kHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

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

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

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

(3) KDB 789033 D02 General UNII Test Procedures New Rules v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

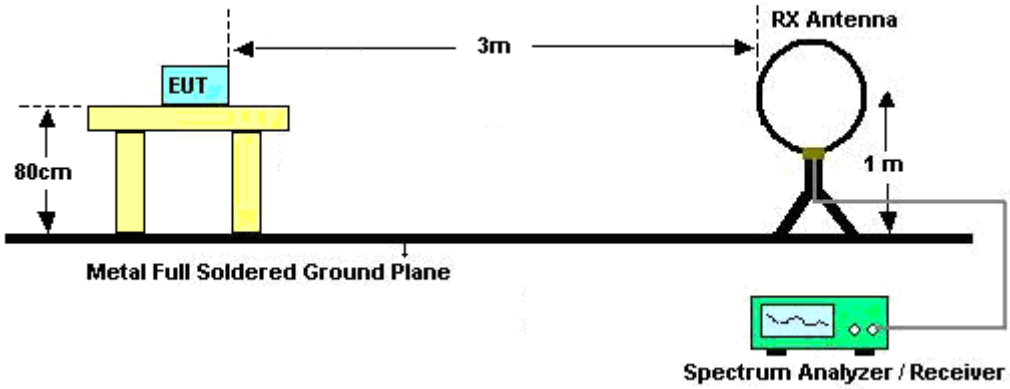
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

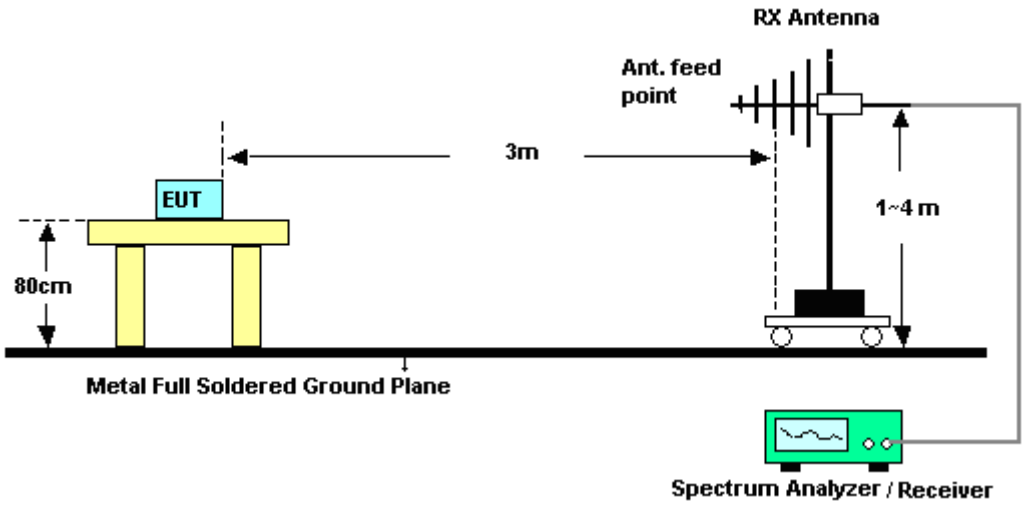
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

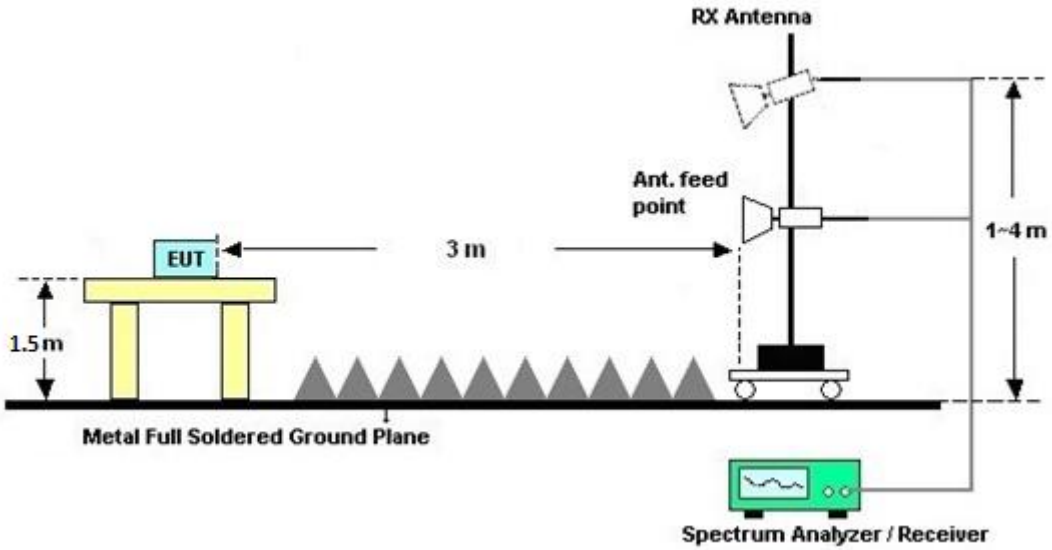
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

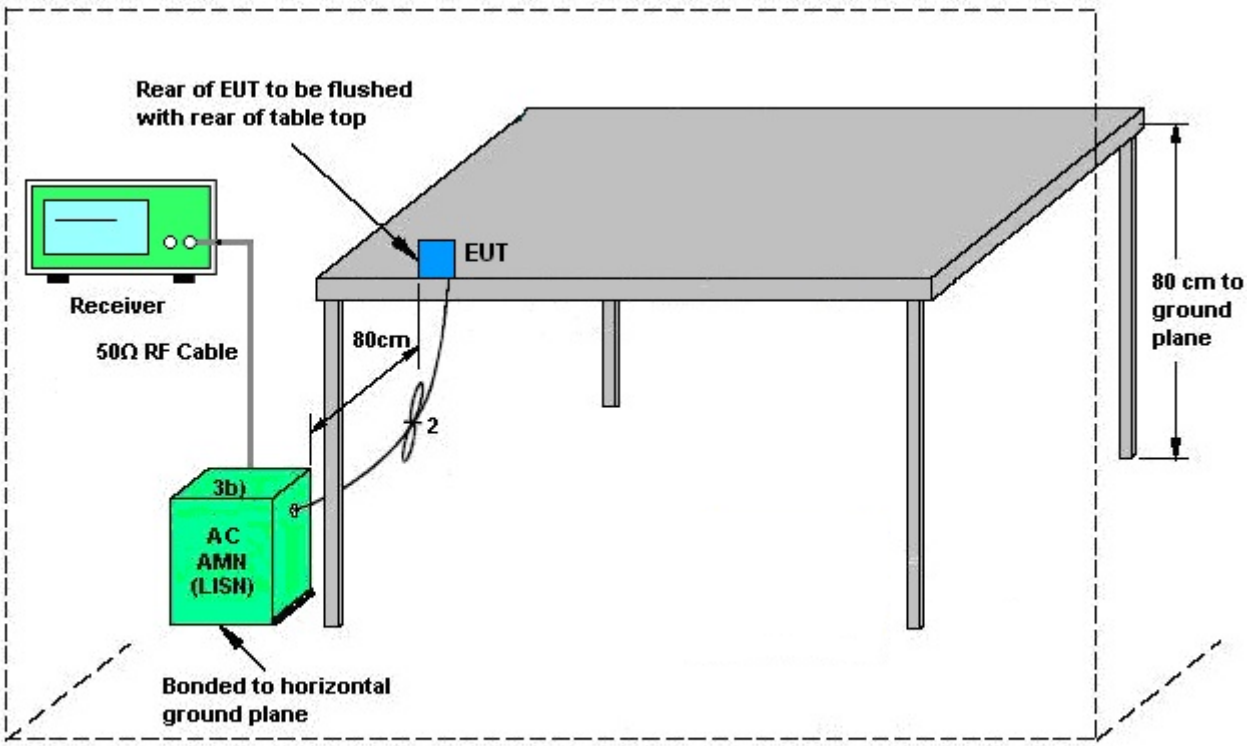
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

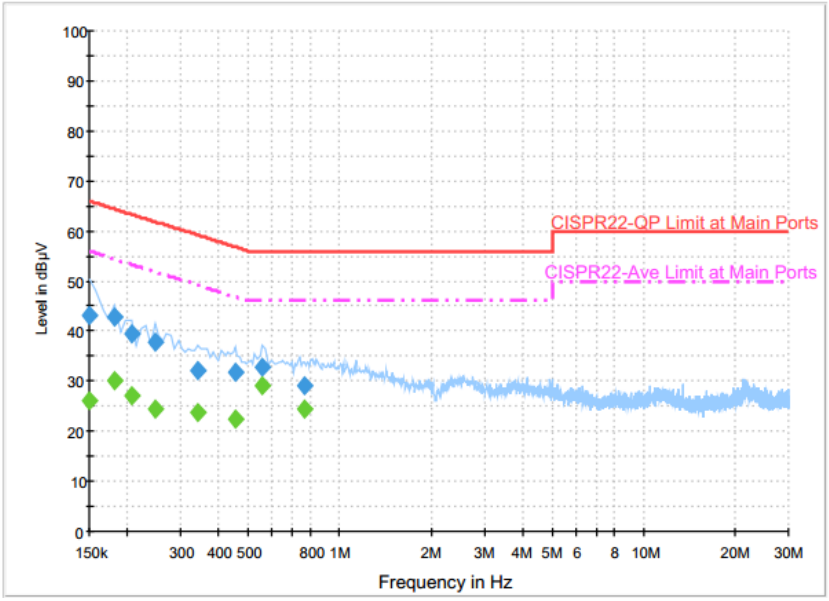
3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	24~25℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	52~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card		



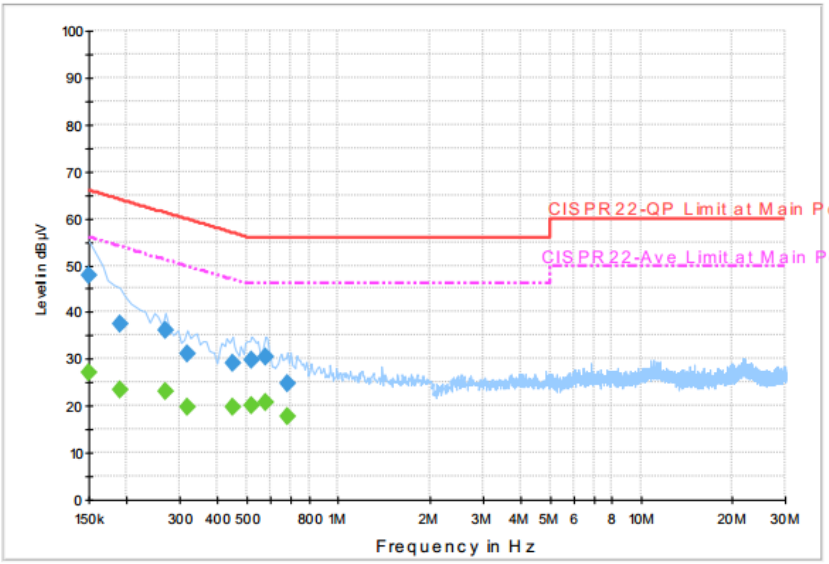
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.2	Off	L1	19.6	22.8	66.0
0.182000	42.7	Off	L1	19.6	21.7	64.4
0.206000	39.5	Off	L1	19.6	23.9	63.4
0.246000	37.7	Off	L1	19.6	24.2	61.9
0.342000	32.2	Off	L1	19.6	27.0	59.2
0.454000	31.7	Off	L1	19.6	25.1	56.8
0.558000	32.7	Off	L1	19.6	23.3	56.0
0.766000	28.9	Off	L1	19.6	27.1	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	26.2	Off	L1	19.6	29.8	56.0
0.182000	30.0	Off	L1	19.6	24.4	54.4
0.206000	27.2	Off	L1	19.6	26.2	53.4
0.246000	24.4	Off	L1	19.6	27.5	51.9
0.342000	23.7	Off	L1	19.6	25.5	49.2
0.454000	22.4	Off	L1	19.6	24.4	46.8
0.558000	29.1	Off	L1	19.6	16.9	46.0
0.766000	24.3	Off	L1	19.6	21.7	46.0

Test Mode :	Mode 1	Temperature :	24~25℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	52~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + USB Cable (Charging from Adapter) + MicroSD Card		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	47.7	Off	N	19.6	18.3	66.0
0.190000	37.3	Off	N	19.6	26.7	64.0
0.270000	36.2	Off	N	19.6	24.9	61.1
0.318000	31.0	Off	N	19.6	28.8	59.8
0.446000	28.9	Off	N	19.6	28.0	56.9
0.518000	29.7	Off	N	19.6	26.3	56.0
0.574000	30.6	Off	N	19.6	25.4	56.0
0.678000	24.7	Off	N	19.6	31.3	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	27.2	Off	N	19.6	28.8	56.0
0.190000	23.4	Off	N	19.6	30.6	54.0
0.270000	23.1	Off	N	19.6	28.0	51.1
0.318000	19.6	Off	N	19.6	30.2	49.8
0.446000	19.8	Off	N	19.6	27.1	46.9
0.518000	20.2	Off	N	19.6	25.8	46.0
0.574000	20.7	Off	N	19.6	25.3	46.0
0.678000	17.7	Off	N	19.6	28.3	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.

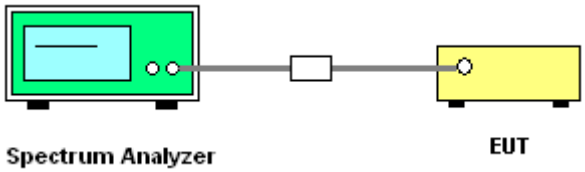
3.6.2 Measuring Instruments

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

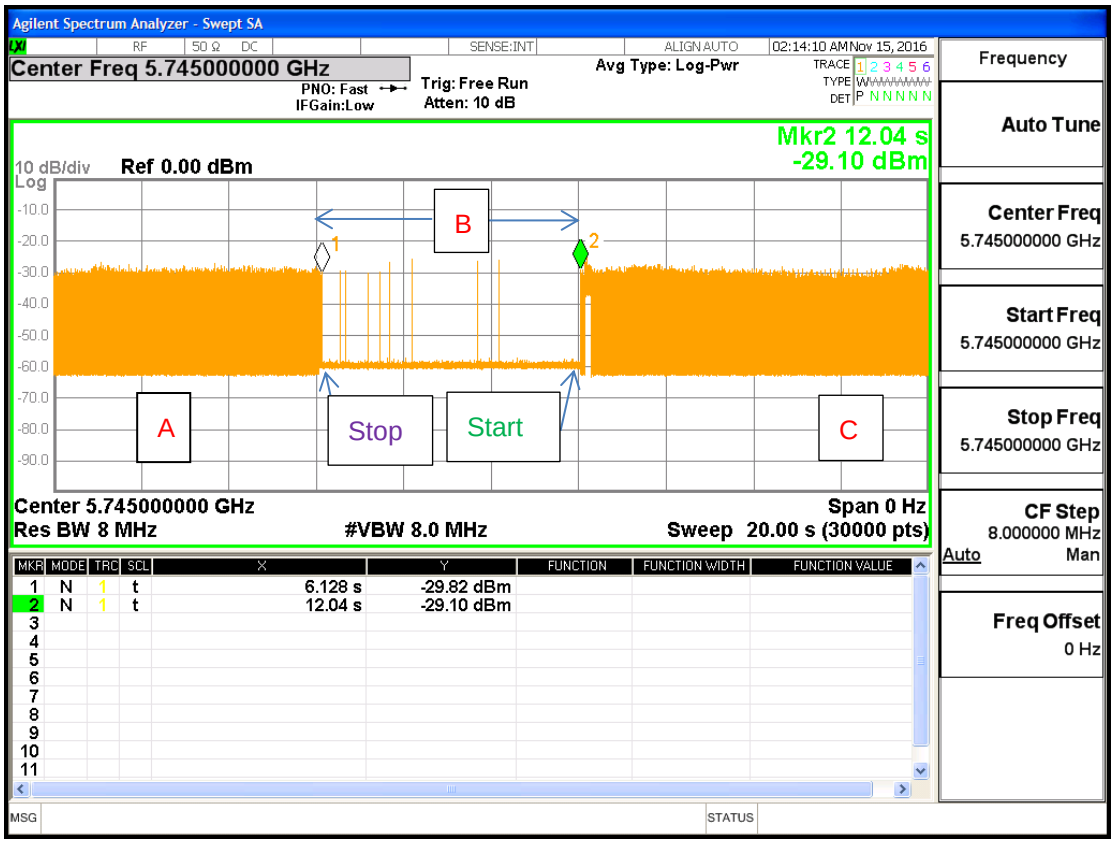
EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

B. Information stop: stop supplying information to the access point.
While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.
The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5745MHz



Note : The control / signalling information during the period B is precluded.

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Oct. 24, 2016 ~ Nov. 15, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Oct. 24, 2016 ~ Nov. 15, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Oct. 24, 2016 ~ Nov. 15, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Oct. 24, 2016 ~ Nov. 15, 2016	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Oct. 24, 2016 ~ Nov. 15, 2016	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 01, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Nov. 01, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Nov. 01, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Oct. 27, 2016 ~ Oct. 29, 2016	Sep. 01, 2017	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	10MHz~1GHz	Dec. 31, 2015	Oct. 27, 2016 ~ Oct. 29, 2016	Dec. 30, 2016	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&04	30MHz to 1GHz	Jan. 13, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Jan. 12, 2017	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Mar. 09, 2017	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Apr. 24, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	Jun. 27, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Jun. 26, 2017	Radiation (03CH13-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Jun. 13, 2017	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 30, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Jan. 29, 2017	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 14, 2016	Oct. 27, 2016 ~ Oct. 29, 2016	Mar. 13, 2017	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 27, 2016 ~ Oct. 29, 2016	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 27, 2016 ~ Oct. 29, 2016	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Oct. 27, 2016 ~ Oct. 29, 2016	Nov. 01, 2016	Radiation (03CH13-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.9**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**

Appendix A. Conducted Test Results

Report Number : FR670616-01E

Test Engineer:	Derek Hsu	Temperature:	21~25	°C
Test Date:	2016/10/24~2016/11/03	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)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	17.50	21.36	16.32	0.5	Pass
11a	6Mbps	1	157	5785	17.30	21.43	16.34	0.5	Pass
11a	6Mbps	1	165	5825	17.35	21.12	16.32	0.5	Pass
HT20	MCS 0	1	149	5745	18.15	23.33	17.60	0.5	Pass
HT20	MCS 0	1	157	5785	18.15	21.67	17.60	0.5	Pass
HT20	MCS 0	1	165	5825	18.10	23.40	17.60	0.5	Pass
HT40	MCS 0	1	151	5755	36.30	41.10	36.32	0.5	Pass
HT40	MCS 0	1	159	5795	36.30	44.64	36.32	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
11a	6M bps	1	149	5745	0.00	13.80	30.00	0.19		Pass
11a	6Mbps	1	157	5785	0.00	13.75	30.00	0.19		Pass
11a	6Mbps	1	165	5825	0.00	13.74	30.00	0.19		Pass
HT20	MCS 0	1	149	5745	0.00	13.82	30.00	0.19		Pass
HT20	MCS 0	1	157	5785	0.00	13.81	30.00	0.19		Pass
HT20	MCS 0	1	165	5825	0.00	13.74	30.00	0.19		Pass
HT40	MCS 0	1	151	5755	0.00	13.85	30.00	0.19		Pass
HT40	MCS 0	1	159	5795	0.00	13.82	30.00	0.19		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
11a	6M bps	1	149	5745	0.00	2.22	-0.32	30.00	0.19	Pass
11a	6Mbps	1	157	5785	0.00	2.22	-0.67	30.00	0.19	Pass
11a	6Mbps	1	165	5825	0.00	2.22	-0.69	30.00	0.19	Pass
HT20	MCS 0	1	149	5745	0.00	2.22	-0.23	30.00	0.19	Pass
HT20	MCS 0	1	157	5785	0.00	2.22	-0.81	30.00	0.19	Pass
HT20	MCS 0	1	165	5825	0.00	2.22	-1.28	30.00	0.19	Pass
HT40	MCS 0	1	151	5755	0.00	2.22	-4.44	30.00	0.19	Pass
HT40	MCS 0	1	159	5795	0.00	2.22	-4.88	30.00	0.19	Pass

TEST RESULTS DATA
Frequency Stability

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6M bps	1	149	5745	5745.000	0.000	0.00	20	3.6	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	20	4.2	
11a	6M bps	1	149	5745	5745.050	0.050	8.70	20	3.8	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	0	3.8	
11a	6M bps	1	149	5745	5745.000	0.000	0.00	35	3.8	

Appendix B. Radiated Spurious Emission

Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	Temperature :	24~26°C
		Relative Humidity :	47~51%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5640.8	52.07	-16.13	68.2	40.05	32.09	10.94	31.01	100	83	P	H
		5693.2	53.67	-46.52	100.19	41.51	32.17	11.02	31.03	100	83	P	H
		5707.8	54.92	-52.47	107.39	42.72	32.19	11.05	31.04	100	83	P	H
		5723.6	61.28	-57.73	119.01	49.04	32.21	11.07	31.04	100	83	P	H
	*	5745	105.1	-	-	92.81	32.24	11.1	31.05	100	83	P	H
	*	5745	96.76	-	-	84.47	32.24	11.1	31.05	100	83	A	H
													H
													H
		5634.6	52.28	-15.92	68.2	40.26	32.09	10.94	31.01	306	99	P	V
		5689.8	54.14	-43.54	97.68	41.98	32.17	11.02	31.03	306	99	P	V
		5716.6	55.67	-54.18	109.85	43.47	32.19	11.05	31.04	306	99	P	V
		5724.6	66.61	-54.68	121.29	54.37	32.21	11.07	31.04	306	99	P	V
	*	5745	108.53	-	-	96.24	32.24	11.1	31.05	306	99	P	V
	*	5745	99.95	-	-	87.66	32.24	11.1	31.05	306	99	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5604	51.26	-16.94	68.2	39.33	32.04	10.89	31	100	82	P	H
		5677	52.37	-35.85	88.22	40.25	32.14	11	31.02	100	82	P	H
		5716.6	53.29	-56.56	109.85	41.09	32.19	11.05	31.04	100	82	P	H
		5724	52.81	-67.11	119.92	40.57	32.21	11.07	31.04	100	82	P	H
	*	5785	105.24	-	-	92.87	32.29	11.15	31.07	100	82	P	H
	*	5785	97.13	-	-	84.76	32.29	11.15	31.07	100	82	A	H
		5851	52.25	-67.67	119.92	39.69	32.38	11.27	31.09	100	82	P	H
		5874.6	52.34	-52.97	105.31	39.68	32.43	11.33	31.1	100	82	P	H
		5883.4	53.26	-45.7	98.96	40.62	32.43	11.33	31.12	100	82	P	H
		5932.2	52.55	-15.65	68.2	39.77	32.5	11.41	31.13	100	82	P	H
													H
802.11a													H
CH 157		5645.6	51.86	-16.34	68.2	39.84	32.09	10.94	31.01	287	99	P	V
5785MHz		5695.2	52.75	-48.91	101.66	40.59	32.17	11.02	31.03	287	99	P	V
		5718.2	53.03	-57.27	110.3	40.79	32.21	11.07	31.04	287	99	P	V
		5722.6	53.92	-62.81	116.73	41.68	32.21	11.07	31.04	287	99	P	V
	*	5785	109.79	-	-	97.42	32.29	11.15	31.07	287	99	P	V
	*	5785	101.28	-	-	88.91	32.29	11.15	31.07	287	99	A	V
		5853.6	55.21	-58.78	113.99	42.59	32.41	11.3	31.09	287	99	P	V
		5860.4	55.17	-54.12	109.29	42.56	32.41	11.3	31.1	287	99	P	V
		5905.6	55.42	-27.1	82.52	42.68	32.48	11.38	31.12	287	99	P	V
		5946.2	53.02	-15.18	68.2	40.19	32.53	11.44	31.14	287	99	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	105.02	-	-	92.5	32.36	11.24	31.08	100	82	P	H
	*	5825	96.62	-	-	84.1	32.36	11.24	31.08	100	82	A	H
		5855	55.71	-55.09	110.8	43.09	32.41	11.3	31.09	100	82	P	H
		5855	55.71	-55.09	110.8	43.09	32.41	11.3	31.09	100	82	P	H
		5886	53.26	-43.77	97.03	40.62	32.43	11.33	31.12	100	82	P	H
		5925.8	53.23	-14.97	68.2	40.45	32.5	11.41	31.13	100	82	P	H
													H
802.11a													H
CH 165	*	5825	109.68	-	-	97.16	32.36	11.24	31.08	284	99	P	V
5825MHz	*	5825	101.17	-	-	88.65	32.36	11.24	31.08	284	99	A	V
		5854.2	56.7	-55.92	112.62	44.08	32.41	11.3	31.09	284	99	P	V
		5856	56.8	-53.72	110.52	44.18	32.41	11.3	31.09	284	99	P	V
		5890.2	56.29	-37.63	93.92	43.6	32.46	11.35	31.12	284	99	P	V
		5936	52.78	-15.42	68.2	40.01	32.5	11.41	31.14	284	99	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	54.39	-19.61	74	55.19	40.3	15.2	56.3	100	302	P	H
		11490	43.72	-10.28	54	44.52	40.3	15.2	56.3	100	302	A	H
		17235	46.67	-21.53	68.2	41.79	41.09	19.52	55.73	100	0	P	H
													H
		11490	57.47	-16.53	74	58.27	40.3	15.2	56.3	100	61	P	V
		11490	46.46	-7.54	54	47.26	40.3	15.2	56.3	100	61	A	V
		17235	47.33	-20.87	68.2	42.45	41.09	19.52	55.73	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	48.68	-25.32	74	49.63	40.12	15.22	56.29			P	H
		17355	46.45	-21.75	68.2	41.19	41.53	19.62	55.89	100	0	P	H
													H
													H
		11570	56.49	-17.51	74	57.44	40.12	15.22	56.29	100	62	P	V
		11570	44.82	-9.18	54	45.77	40.12	15.22	56.29	100	62	A	V
		17355	46.89	-21.31	68.2	41.63	41.53	19.62	55.89	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	49.15	-24.85	74	50.25	39.94	15.23	56.27	100	0	P	H
		17475	46.26	-21.94	68.2	40.63	41.97	19.71	56.05	100	0	P	H
													H
													H
		11650	49.01	-24.99	74	50.11	39.94	15.23	56.27	100	0	P	V
		17475	48.81	-19.39	68.2	43.18	41.97	19.71	56.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5615.2	51.5	-16.7	68.2	39.57	32.04	10.89	31	100	75	P	H
		5682.8	53.41	-39.1	92.51	41.3	32.14	11	31.03	100	75	P	H
		5719.2	57.78	-52.8	110.58	45.54	32.21	11.07	31.04	100	75	P	H
		5725	65.39	-56.81	122.2	53.15	32.21	11.07	31.04	100	75	P	H
	*	5745	105.2	-	-	92.91	32.24	11.1	31.05	100	75	P	H
	*	5745	96.9	-	-	84.61	32.24	11.1	31.05	100	75	A	H
802.11n													H
HT20													H
CH 149		5638.8	51.9	-16.3	68.2	39.88	32.09	10.94	31.01	262	97	P	V
5745MHz		5697.4	54.72	-48.56	103.28	42.56	32.17	11.02	31.03	262	97	P	V
		5714.2	59.34	-49.84	109.18	47.14	32.19	11.05	31.04	262	97	P	V
		5723.4	71.62	-46.93	118.55	59.38	32.21	11.07	31.04	262	97	P	V
	*	5745	109.54	-	-	97.25	32.24	11.1	31.05	262	97	P	V
	*	5745	100.92	-	-	88.63	32.24	11.1	31.05	262	97	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5627.2	50.73	-17.47	68.2	38.74	32.07	10.92	31	100	83	P	H
		5697.4	51.58	-51.7	103.28	39.42	32.17	11.02	31.03	100	83	P	H
		5703.6	53.18	-53.03	106.21	40.97	32.19	11.05	31.03	100	83	P	H
		5725	53.81	-68.39	122.2	41.57	32.21	11.07	31.04	100	83	P	H
	*	5785	105.05	-	-	92.68	32.29	11.15	31.07	100	83	P	H
	*	5785	96.76	-	-	84.39	32.29	11.15	31.07	100	83	A	H
		5854.6	52.82	-58.89	111.71	40.2	32.41	11.3	31.09	100	83	P	H
		5874.4	51.92	-53.45	105.37	39.26	32.43	11.33	31.1	100	83	P	H
		5882	51.78	-48.22	100	39.12	32.43	11.33	31.1	100	83	P	H
		5937.8	52.28	-15.92	68.2	39.51	32.5	11.41	31.14	100	83	P	H
802.11n													H
HT20													H
CH 157		5647	52.36	-15.84	68.2	40.34	32.09	10.94	31.01	289	98	P	V
5785MHz		5697.6	52.9	-50.53	103.43	40.74	32.17	11.02	31.03	289	98	P	V
		5705	53.64	-52.96	106.6	41.44	32.19	11.05	31.04	289	98	P	V
		5723.6	53.29	-65.72	119.01	41.05	32.21	11.07	31.04	289	98	P	V
	*	5785	109.19	-	-	96.82	32.29	11.15	31.07	289	98	P	V
	*	5785	100.83	-	-	88.46	32.29	11.15	31.07	289	98	A	V
		5851.8	55	-63.1	118.1	42.44	32.38	11.27	31.09	289	98	P	V
		5864.6	54.44	-53.67	108.11	41.83	32.41	11.3	31.1	289	98	P	V
		5879.6	54.18	-47.6	101.78	41.52	32.43	11.33	31.1	289	98	P	V
		5930.2	52.17	-16.03	68.2	39.39	32.5	11.41	31.13	289	98	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	104.79	-	-	92.27	32.36	11.24	31.08	100	79	P	H
	*	5825	96.52	-	-	84	32.36	11.24	31.08	100	79	A	H
		5851.6	53.49	-65.06	118.55	40.93	32.38	11.27	31.09	100	79	P	H
		5863.4	53.52	-54.93	108.45	40.91	32.41	11.3	31.1	100	79	P	H
		5902.6	52.83	-31.91	84.74	40.14	32.46	11.35	31.12	100	79	P	H
		5937	51.64	-16.56	68.2	38.87	32.5	11.41	31.14	100	79	P	H
802.11n													H
HT20													H
CH 165	*	5825	109.33	-	-	96.81	32.36	11.24	31.08	268	99	P	V
5825MHz	*	5825	100.87	-	-	88.35	32.36	11.24	31.08	268	99	A	V
		5853	58.44	-56.92	115.36	45.88	32.38	11.27	31.09	268	99	P	V
		5857.6	57.26	-52.81	110.07	44.64	32.41	11.3	31.09	268	99	P	V
		5889.4	56.23	-38.28	94.51	43.54	32.46	11.35	31.12	268	99	P	V
		5925	53.85	-14.35	68.2	41.07	32.5	11.41	31.13	268	99	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.8	-24.2	74	50.6	40.3	15.2	56.3	100	0	P	H
		17235	46.62	-21.58	68.2	41.74	41.09	19.52	55.73	100	0	P	H
802.11n													H
HT20													H
CH 149		11490	57.32	-16.68	74	58.12	40.3	15.2	56.3	100	62	P	V
5745MHz		11490	46.86	-7.14	54	47.66	40.3	15.2	56.3	100	62	A	V
		17235	50	-18.2	68.2	45.12	41.09	19.52	55.73	100	0	P	V
													V
		11570	52.68	-21.32	74	53.63	40.12	15.22	56.29	101	302	P	H
		11570	42.63	-11.37	54	43.58	40.12	15.22	56.29	101	302	A	H
802.11n		17355	46.68	-21.52	68.2	41.42	41.53	19.62	55.89	100	0	P	H
HT20													H
CH 157		11570	55.54	-18.46	74	56.49	40.12	15.22	56.29	101	62	P	V
5785MHz		11570	45.35	-8.65	54	46.3	40.12	15.22	56.29	101	62	A	V
		17355	50.15	-18.05	68.2	44.89	41.53	19.62	55.89	100	0	P	V
													V
		11650	48.62	-25.38	74	49.72	39.94	15.23	56.27	100	0	P	H
		17475	46.86	-21.34	68.2	41.23	41.97	19.71	56.05	100	0	P	H
802.11n													H
HT20													H
CH 165		11650	54.37	-19.63	74	55.47	39.94	15.23	56.27	102	85	P	V
5825MHz		11650	43.83	-10.17	54	44.93	39.94	15.23	56.27	102	85	A	V
		17475	47.92	-20.28	68.2	42.29	41.97	19.71	56.05	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	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)
		5635	51.47	-16.73	68.2	39.45	32.09	10.94	31.01	100	82	P	H
		5699	54.86	-49.6	104.46	42.7	32.17	11.02	31.03	100	82	P	H
		5720	68.56	-42.24	110.8	56.32	32.21	11.07	31.04	100	82	P	H
		5720.4	69.69	-42.02	111.71	57.45	32.21	11.07	31.04	100	82	P	H
	*	5755	102.44	-	-	90.1	32.26	11.13	31.05	100	82	P	H
	*	5755	94.32	-	-	81.98	32.26	11.13	31.05	100	82	A	H
		5854.2	51.76	-60.86	112.62	39.14	32.41	11.3	31.09	100	82	P	H
		5857.6	52.48	-57.59	110.07	39.86	32.41	11.3	31.09	100	82	P	H
		5884.2	51.96	-46.41	98.37	39.32	32.43	11.33	31.12	100	82	P	H
		5931.4	50.86	-17.34	68.2	38.08	32.5	11.41	31.13	100	82	P	H
802.11n													H
HT40													H
CH 151		5605.6	52.91	-15.29	68.2	40.98	32.04	10.89	31	289	99	P	V
5755MHz		5699.2	55.03	-49.58	104.61	42.87	32.17	11.02	31.03	289	99	P	V
		5720	71.69	-39.11	110.8	59.45	32.21	11.07	31.04	289	99	P	V
		5720.4	73.83	-37.88	111.71	61.59	32.21	11.07	31.04	289	99	P	V
	*	5755	105.81	-	-	93.47	32.26	11.13	31.05	289	99	P	V
	*	5755	97.42	-	-	85.08	32.26	11.13	31.05	289	99	A	V
		5854.4	51.65	-60.52	112.17	39.03	32.41	11.3	31.09	289	99	P	V
		5857.2	53.31	-56.87	110.18	40.69	32.41	11.3	31.09	289	99	P	V
		5875.8	54.37	-50.24	104.61	41.71	32.43	11.33	31.1	289	99	P	V
		5932.8	52.79	-15.41	68.2	40.01	32.5	11.41	31.13	289	99	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.4	51.84	-16.36	68.2	39.82	32.09	10.94	31.01	100	81	P	H
		5700	52.66	-52.54	105.2	40.5	32.17	11.02	31.03	100	81	P	H
		5700	52.66	-52.54	105.2	40.5	32.17	11.02	31.03	100	81	P	H
		5723.4	51.52	-67.03	118.55	39.28	32.21	11.07	31.04	100	81	P	H
	*	5795	102.67	-	-	90.25	32.31	11.18	31.07	100	81	P	H
	*	5795	94.25	-	-	81.83	32.31	11.18	31.07	100	81	A	H
		5853.8	56.14	-57.4	113.54	43.52	32.41	11.3	31.09	100	81	P	H
		5856.4	52.92	-57.49	110.41	40.3	32.41	11.3	31.09	100	81	P	H
		5878.4	52.5	-50.17	102.67	39.84	32.43	11.33	31.1	100	81	P	H
		5938.6	53.32	-14.88	68.2	40.49	32.53	11.44	31.14	100	81	P	H
802.11n													H
HT40													H
CH 159		5642.2	52.41	-15.79	68.2	40.39	32.09	10.94	31.01	283	99	P	V
5795MHz		5698.2	52.2	-51.67	103.87	40.04	32.17	11.02	31.03	283	99	P	V
		5712.2	53.78	-54.84	108.62	41.58	32.19	11.05	31.04	283	99	P	V
		5724.8	54.91	-66.83	121.74	42.67	32.21	11.07	31.04	283	99	P	V
	*	5795	106.56	-	-	94.14	32.31	11.18	31.07	283	99	P	V
	*	5795	97.85	-	-	85.43	32.31	11.18	31.07	283	99	A	V
		5850	62.52	-59.68	122.2	49.96	32.38	11.27	31.09	283	99	P	V
		5855.2	58.28	-52.46	110.74	45.66	32.41	11.3	31.09	283	99	P	V
		5912.6	53.56	-23.79	77.35	40.83	32.48	11.38	31.13	283	99	P	V
		5925.8	53.61	-14.59	68.2	40.83	32.5	11.41	31.13	283	99	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	48.64	-25.36	74	49.43	40.3	15.21	56.3	100	0	P	H
		17265	45.32	-22.88	68.2	40.33	41.21	19.55	55.77	100	0	P	H
802.11n													H
HT40													H
CH 151		11510	49.94	-24.06	74	50.73	40.3	15.21	56.3	100	0	P	V
5755MHz		17265	45.43	-22.77	68.2	40.44	41.21	19.55	55.77	100	0	P	V
													V
													V
		11590	45.25	-28.75	74	46.23	40.08	15.22	56.28	100	0	P	H
		17385	45.47	-22.73	68.2	40.11	41.66	19.64	55.94	100	0	P	H
802.11n													H
HT40													H
CH 159		11590	47.5	-26.5	74	48.48	40.08	15.22	56.28	100	0	P	V
5795MHz		17385	46.2	-22	68.2	40.84	41.66	19.64	55.94	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		52.14	26.99	-13.01	40	43.91	14.2	0.8	31.92	100	0	P	H
		93.45	26.82	-16.68	43.5	42.5	15.19	1.02	31.89	-	-	P	H
		273.27	25.62	-20.38	46	36.47	19.16	1.76	31.77	-	-	P	H
		440.7	28.66	-17.34	46	35.35	22.77	2.34	31.8	-	-	P	H
		772.5	29.89	-16.11	46	31.07	27.58	3.19	31.95	-	-	P	H
		949.6	32.18	-13.82	46	29.76	30.1	3.44	31.12	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11n													H
HT20		42.96	32.45	-7.55	40	45.21	18.52	0.65	31.93	100	25	P	V
LF		117.48	27.36	-16.14	43.5	40.71	17.39	1.14	31.88	-	-	P	V
		217.92	25.41	-20.59	46	39.61	16.02	1.58	31.8	-	-	P	V
		516.3	24.92	-21.08	46	30.15	24.09	2.55	31.87	-	-	P	V
		749.4	29.4	-16.6	46	30.86	27.4	3.12	31.98	-	-	P	V
		955.9	32.24	-13.76	46	29.72	30.13	3.46	31.07	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

Note symbol

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

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

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

1. Level(dBµV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBµV/m)

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

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

= 55.45 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 55.45(dBµV/m) – 74(dBµV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBµV/m)

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

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

= 43.54 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 43.54(dBµV/m) – 54(dBµV/m)

= -10.46(dB)

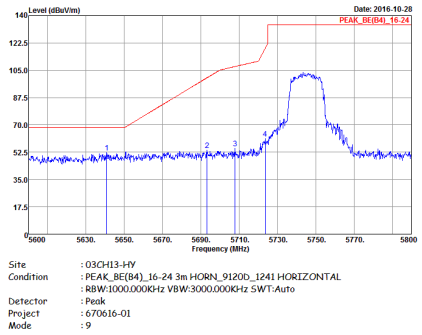
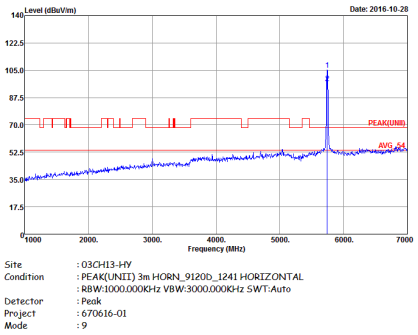
Both peak and average measured complies with the limit line, so test result is "PASS".

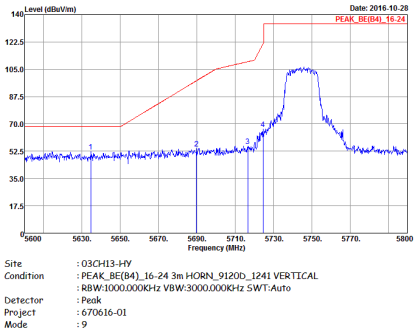
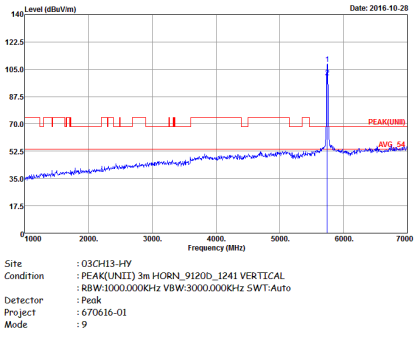
Appendix C. Radiated Spurious Emission Plots

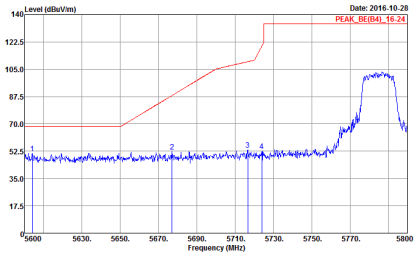
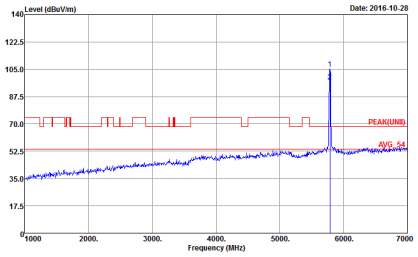
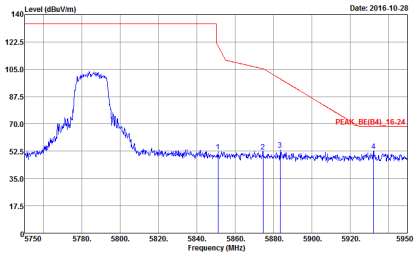
Test Engineer :	Alex Jheng, Bill Chang, and Wilson Wu	Temperature :	24~26°C
		Relative Humidity :	47~51%

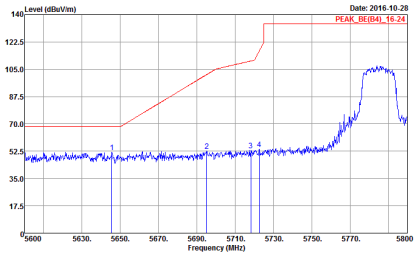
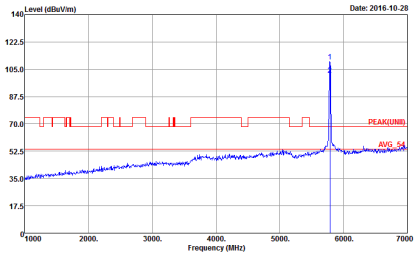
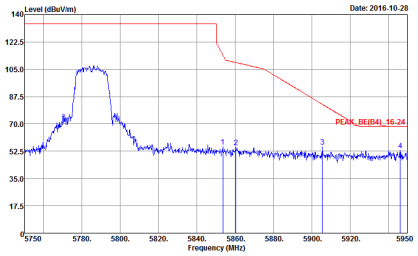
Band 4 - 5725~5850MHz

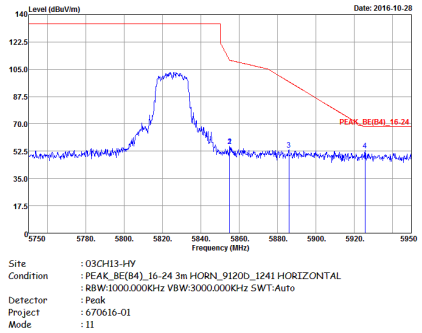
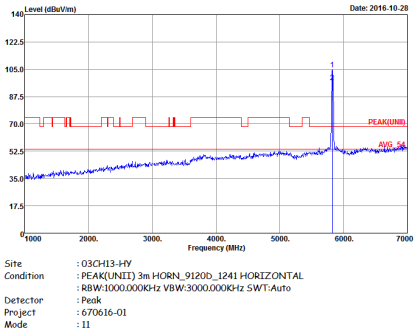
WIFI 802.11a (Band Edge @ 3m)

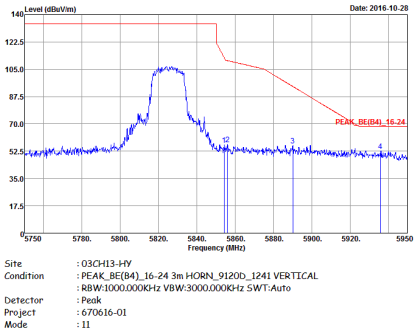
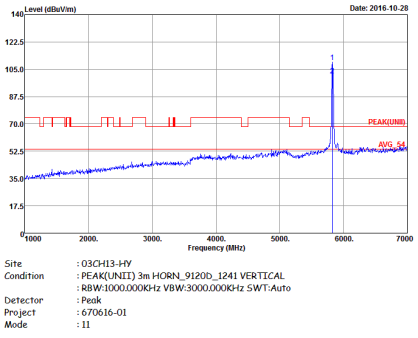
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	Left blank

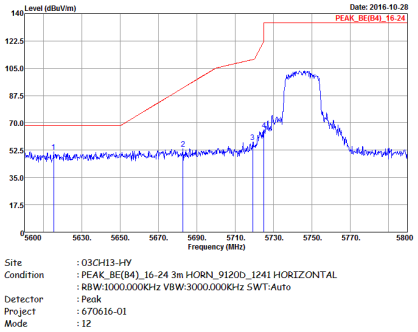
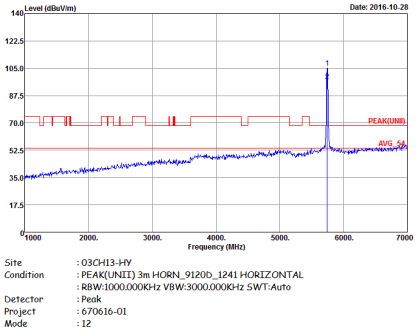
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 10	Left blank

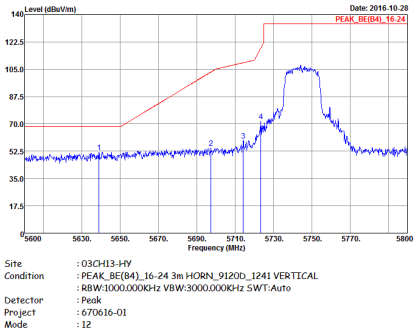
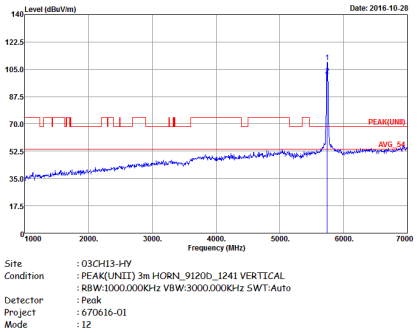
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 11

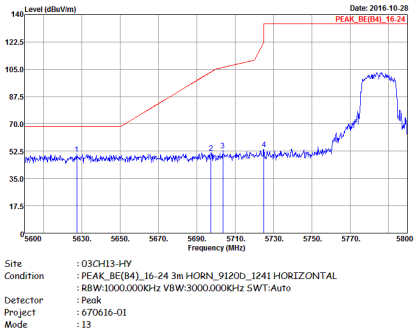
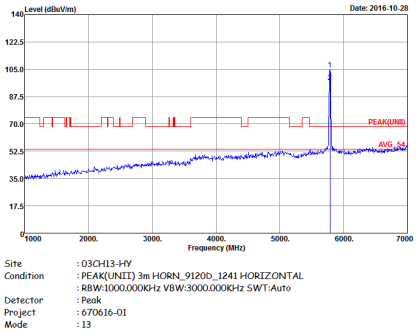
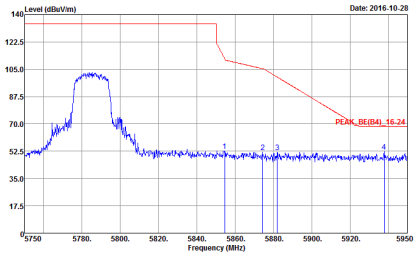
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

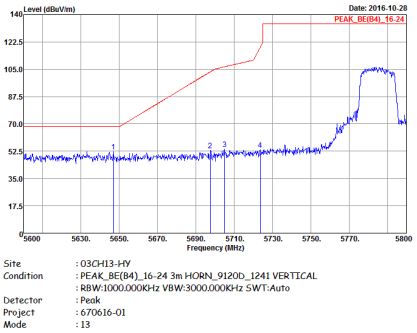
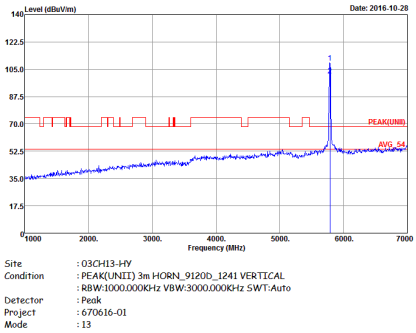
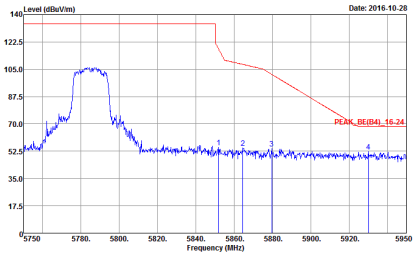
Band 4 5725~5850MHz

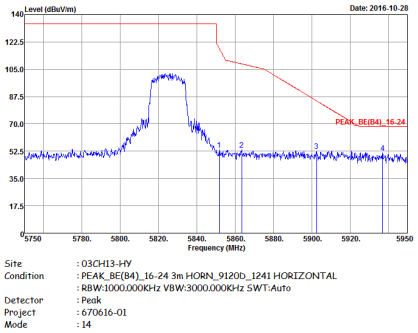
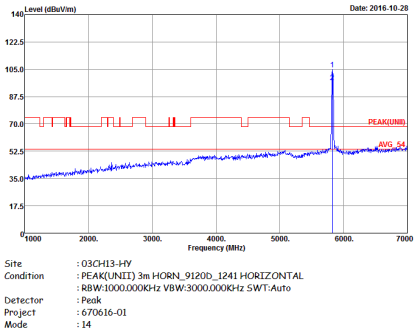
WIFI 802.11n HT20 (Band Edge @ 3m)

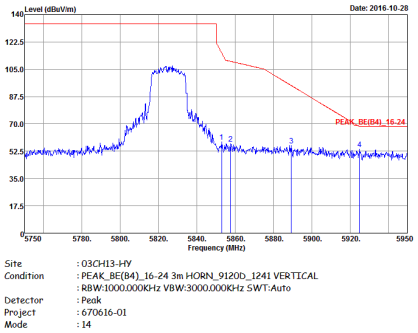
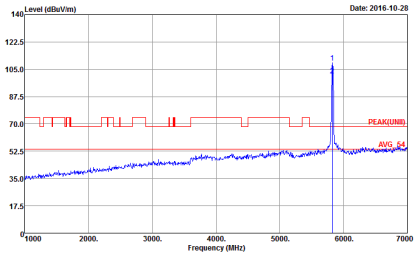
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 12

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	Left blank

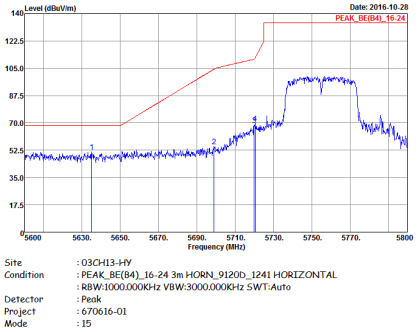
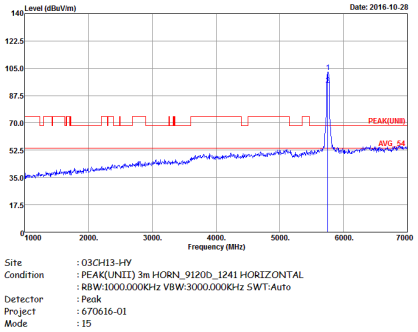
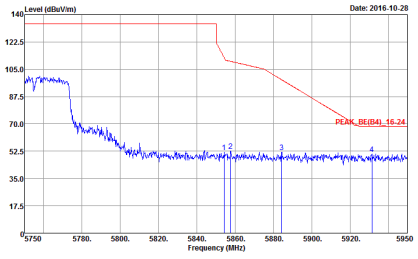
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 13	Left blank

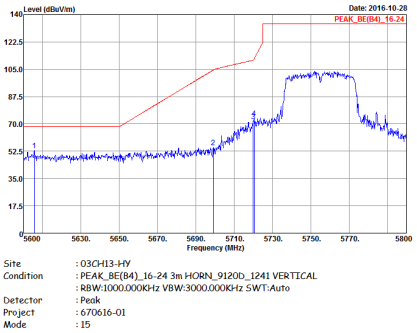
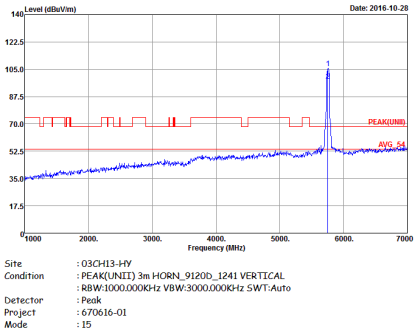
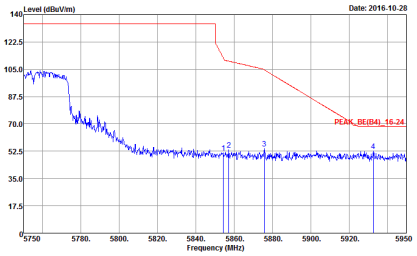
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14

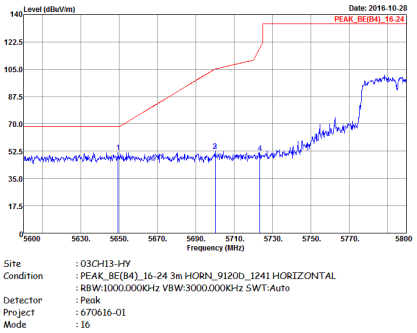
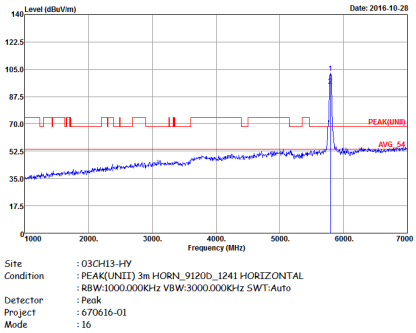
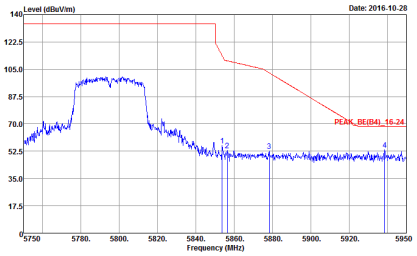
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 14

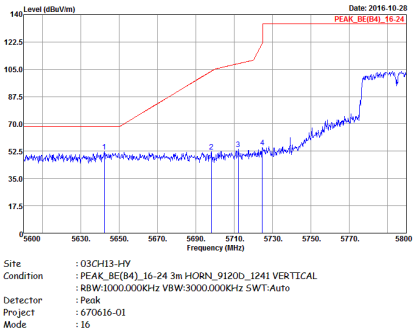
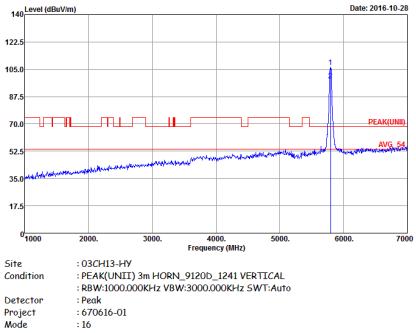
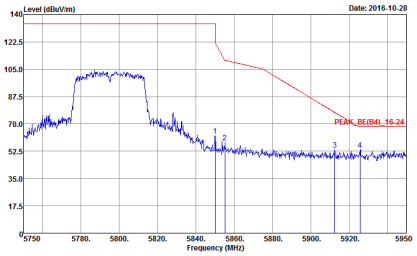
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	Left blank

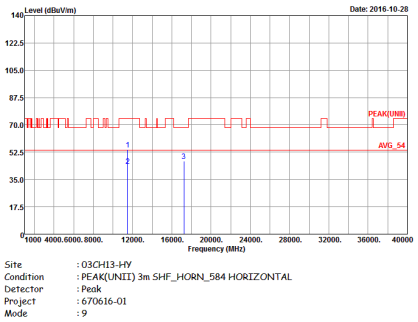
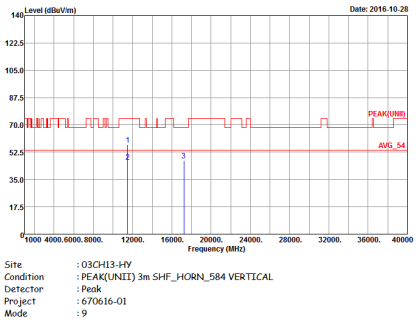
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 15	Left blank

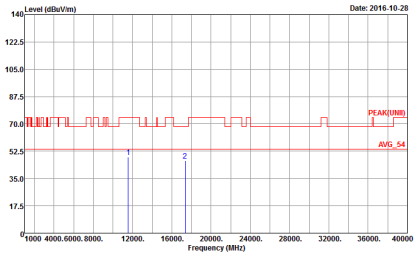
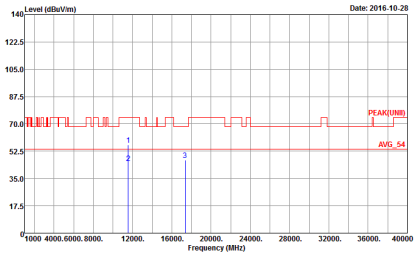
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16	Left blank

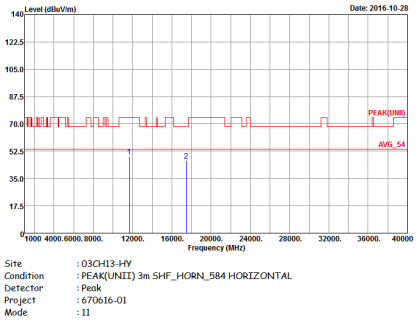
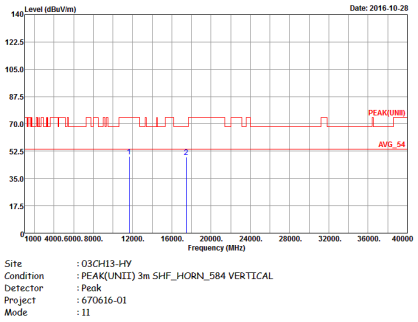
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16
Peak	 Site : 03CH13-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 670616-01 Mode : 16	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

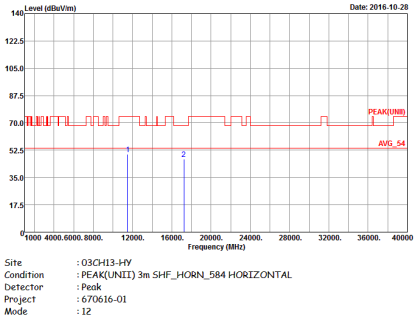
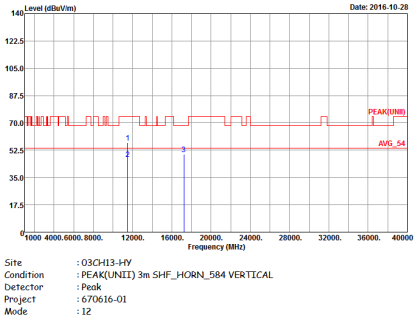
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

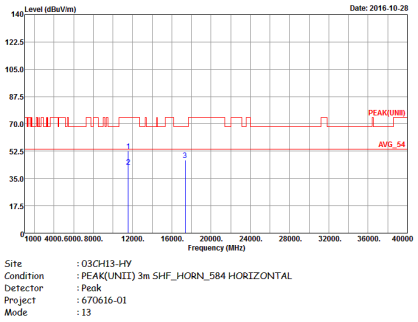
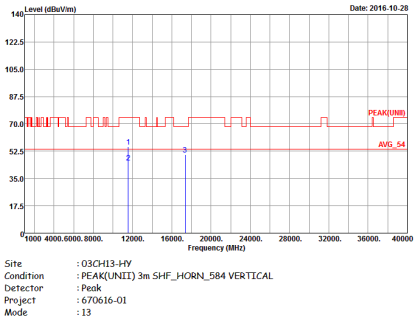
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 10	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 10

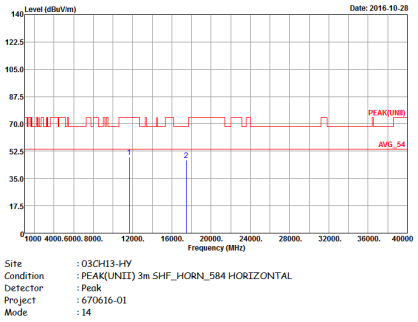
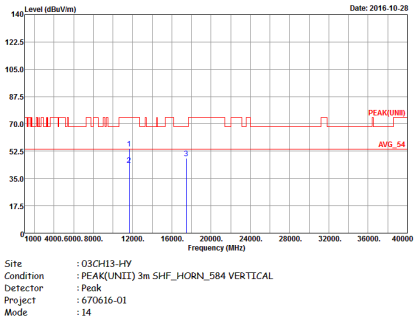
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 11	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 11

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

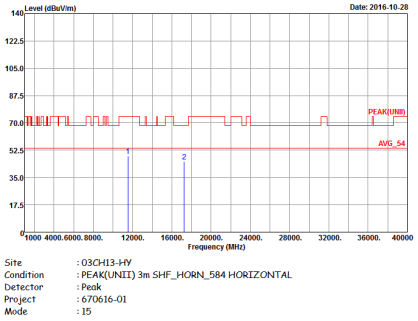
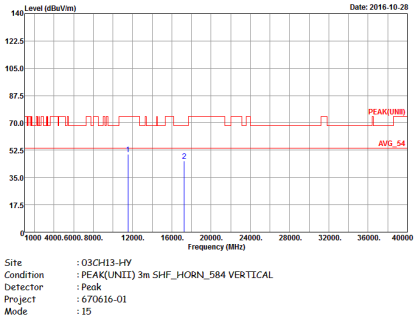
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

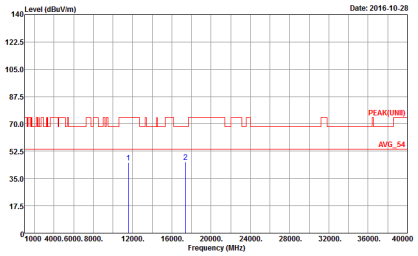
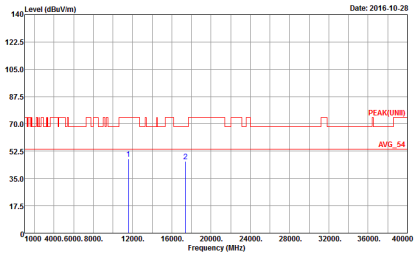
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 13	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 13

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 14	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 14

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

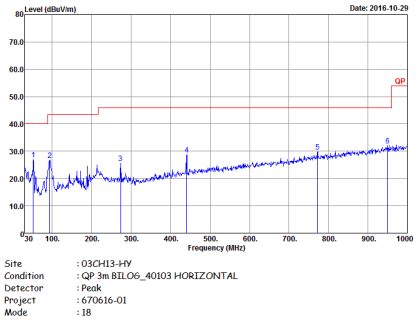
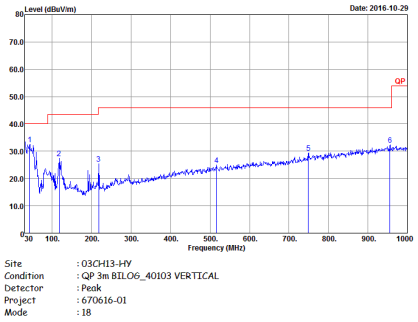
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 670616-01 Mode : 16	 Site : 03CH13-HY Condition : PEAK(UNII) 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 670616-01 Mode : 16

Band 4 5725~5850MHz

Emission below 1GHz

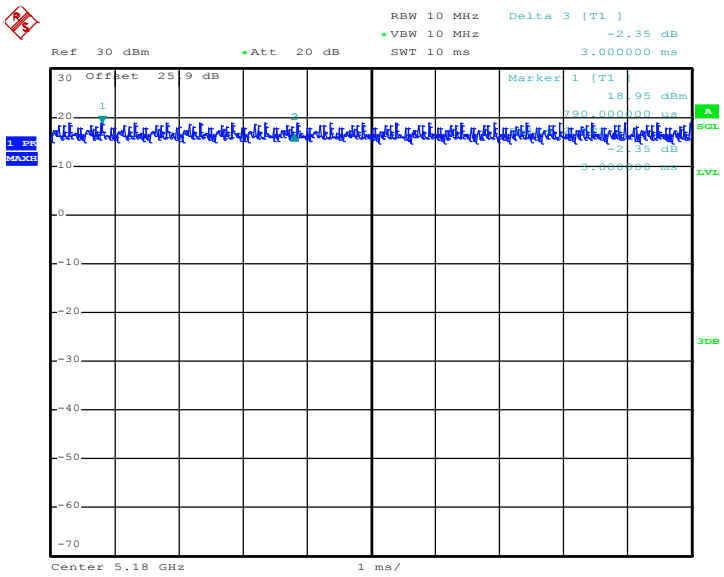
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

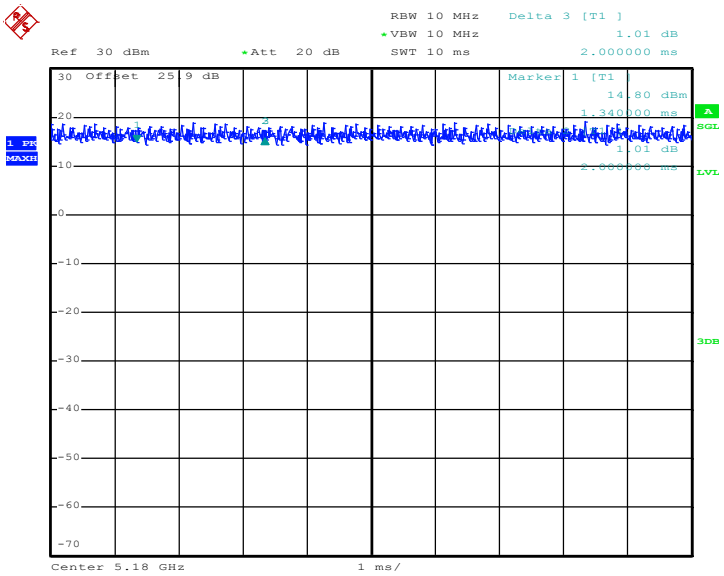
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	100	-	-	10Hz
5GHz 802.11n HT20	100	-	-	10Hz
5GHz 802.11n HT40	100	-	-	10Hz

802.11a



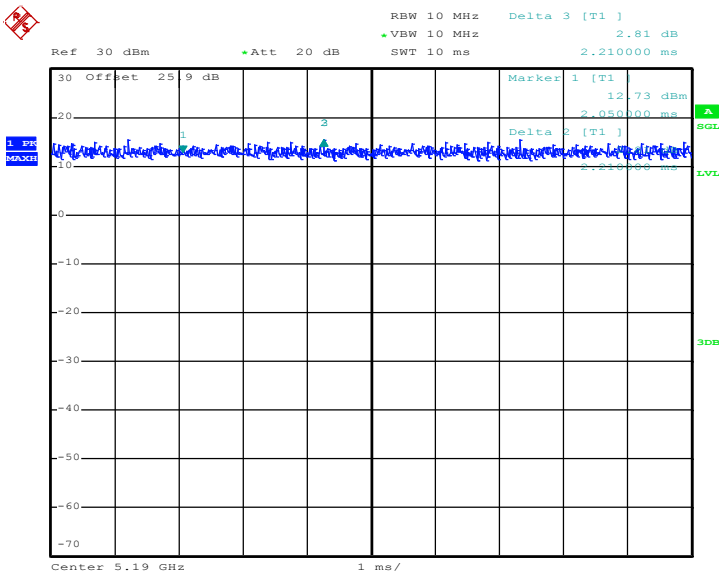
Date: 24.OCT.2016 23:28:18

802.11n HT20



Date: 24.OCT.2016 23:30:08

802.11n HT40



Date: 24.OCT.2016 23:34:15