



# FCC RADIO TEST REPORT

**FCC ID** : 2AFZZ-XMD2TG  
**Equipment** : Mobile Phone  
**Brand Name** : MI  
**Model Name** : M1808D2TG  
**Applicant** : Xiaomi Communications Co., Ltd.  
The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China  
**Manufacturer** : Xiaomi Communications Co., Ltd.  
The Rainbow City of China Resources,NO.68,Qinghe Middle Street,Haidian District,Beijing,China  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Aug. 02, 2018 and testing was started from Aug. 09, 2018 and completed on Sep. 01, 2018. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Joseph Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.32 dB at 5150.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 14.54 dB at 0.152 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

**Reviewed by: Wii Chang**

**Report Producer: Yimin Ho**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS

Product Specification subjective to this standard	
Sample 1	6+128G
Sample 2	4+64G
Antenna Type	WWAN Top Antenna: Fixed Internal Antenna Bottom Antenna: Fixed Internal Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / Beidou / Galileo: PIFA Antenna

Remark: All the test results were performed with Sample 1.

## 1.2 Modification of EUT

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

## 1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	<b>Sporton Site No.</b>	
	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.	<b>Sporton Site No.</b>	
	03CH13-HY	

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



## **1.4 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 v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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

- a. 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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 <sup>#</sup>	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



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

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

Note:

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

## 2.2 Test Mode

Final test modes 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
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + Camera (Front) + USB Cable 2 (Charging from Adapter 2) for Top Antenna
<b>Remark:</b> For Radiated test cases, the tests were performed with Adapter 1, and USB Cable 1.	



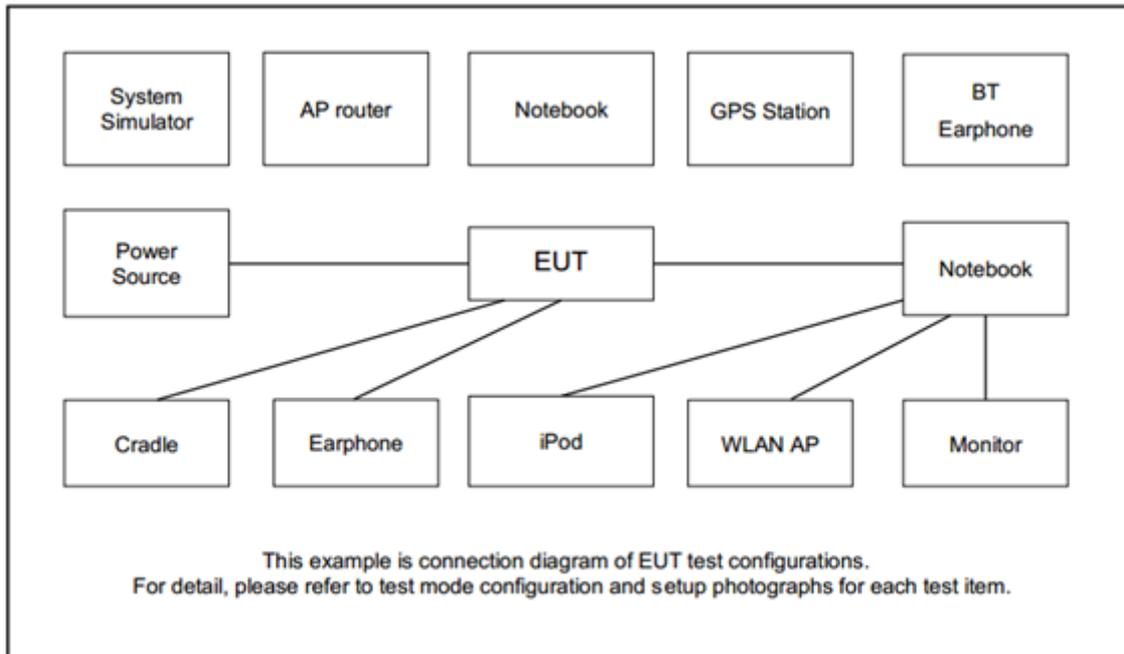
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	-
Straddle		-	-	138

### 2.3 Connection Diagram of Test System



### 2.4 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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	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
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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

### 3 Test Result

#### 3.1 26dB & 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

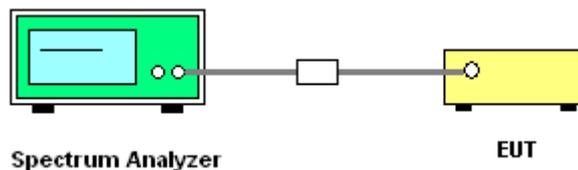
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

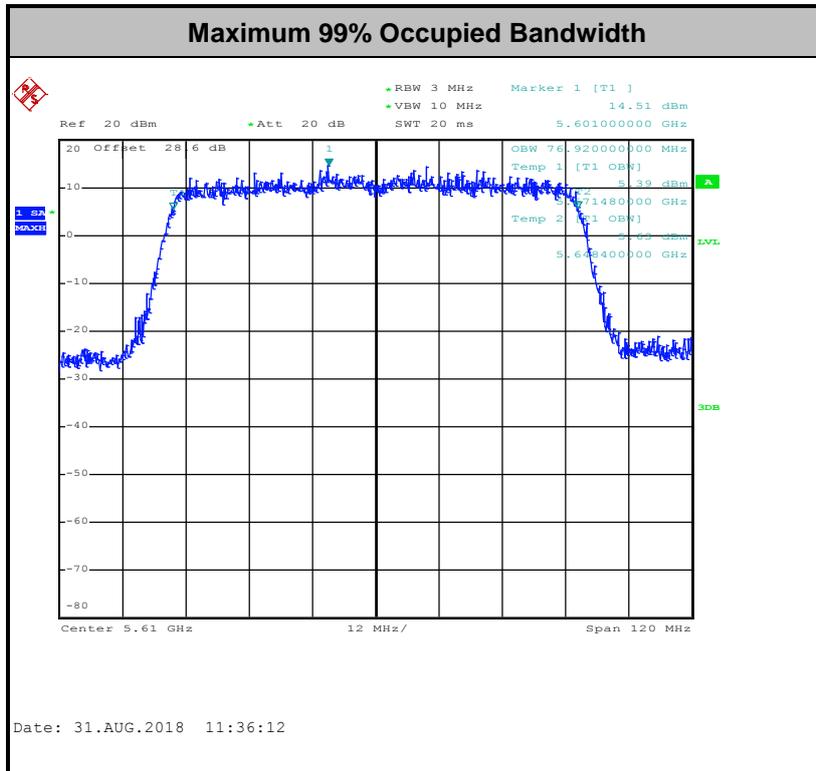
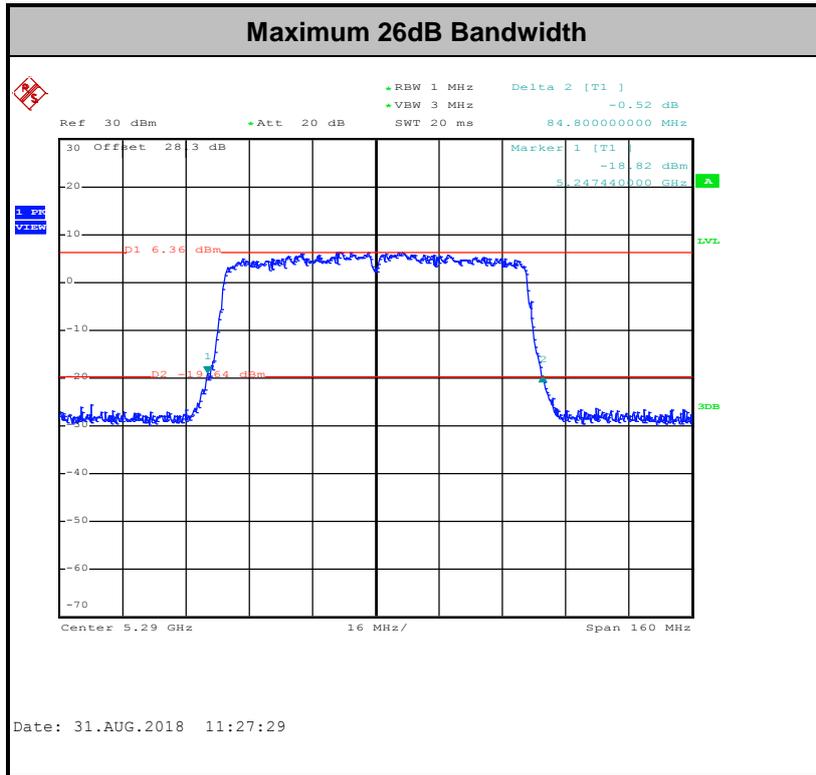
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup



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

Please refer to Appendix A.



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



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

- For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

**For the 5.25–5.725 GHz bands:**

- The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.2.3 Test Procedures

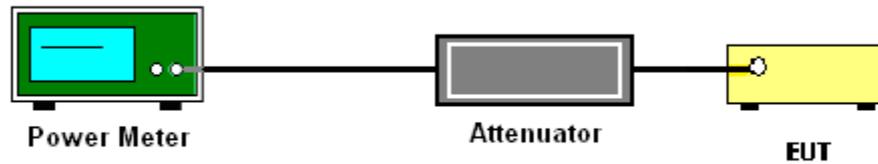
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

### 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

<FCC 14-30 CFR 15.407>

**For the 5.15–5.25 GHz bands:**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

**For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

See list of measuring equipment of this test report.

### 3.3.3 Test Procedures

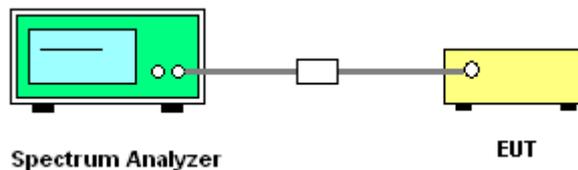
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section F) Maximum power spectral density.

#### # Method SA-2 #

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

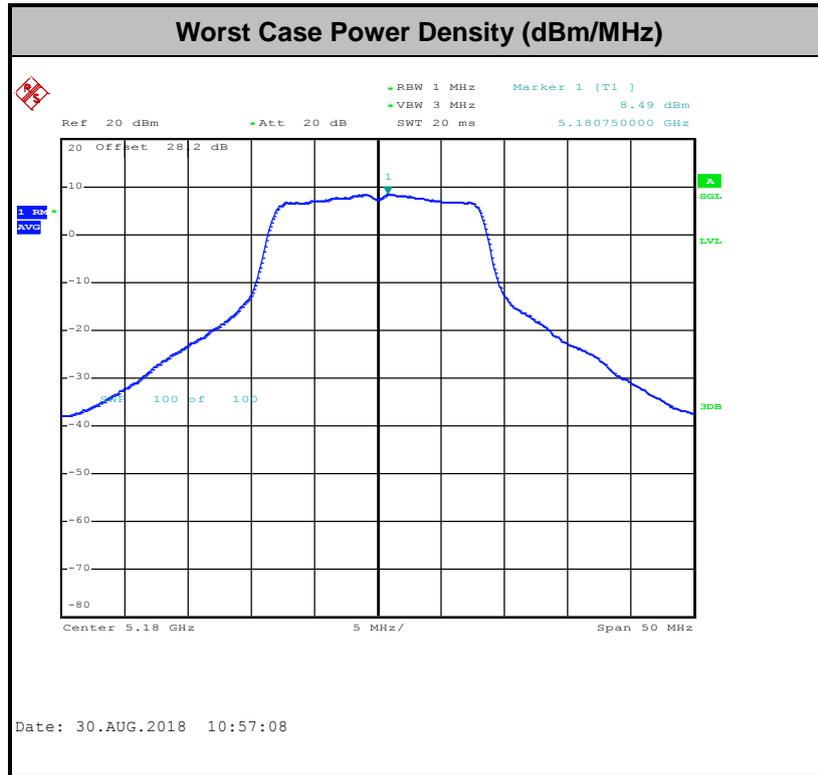
- Measure the duty cycle.
  - Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 1 MHz.
  - Set VBW  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time = auto.
  - Detector = RMS
  - Trace average at least 100 traces in power averaging mode.
  - Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.
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.



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



### 3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 3.4.1 Limit of Unwanted Emissions

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

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

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits 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.

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



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

(3) KDB789033 D02 v02r01 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.<sup>3</sup>
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.<sup>4</sup>

**Note 3:** An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

**Note 4:** Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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

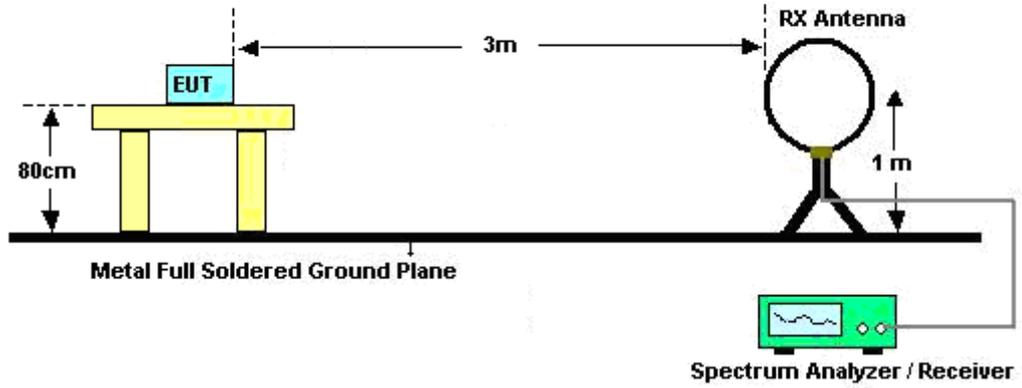


(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

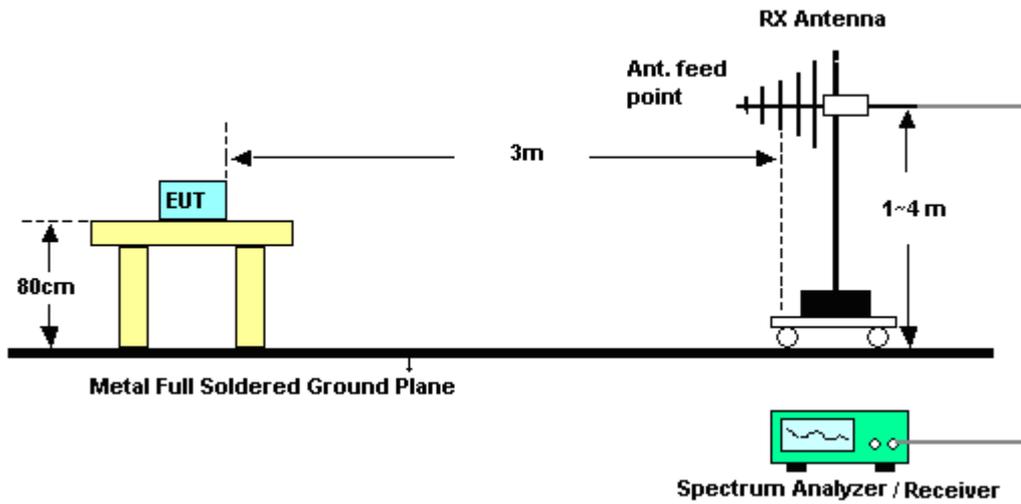
- RBW = 1 MHz
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - $VBW \geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
  3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
  4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
  5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
  6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
  7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

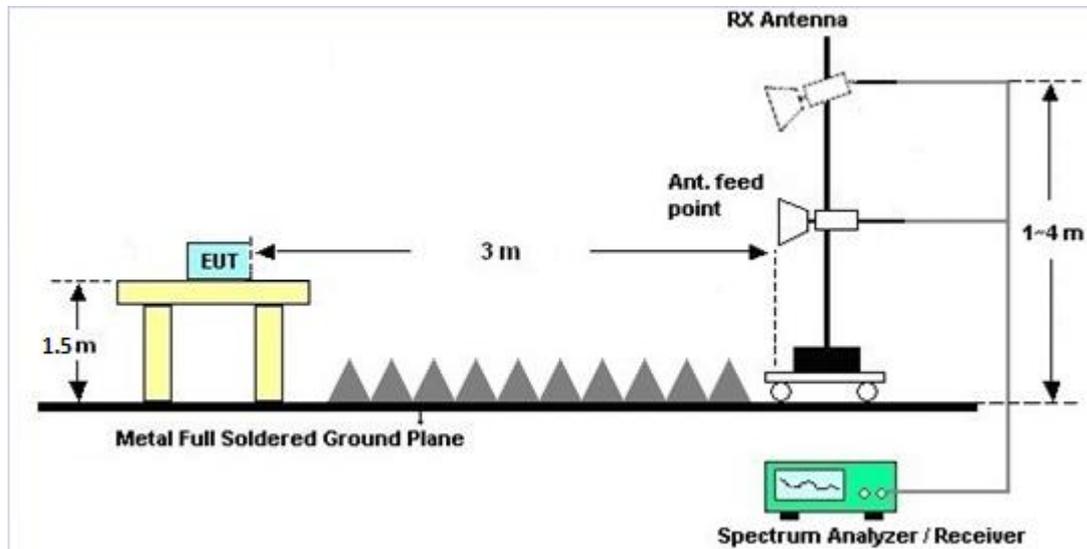
For radiated emissions below 30MHz



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 was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



### 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.

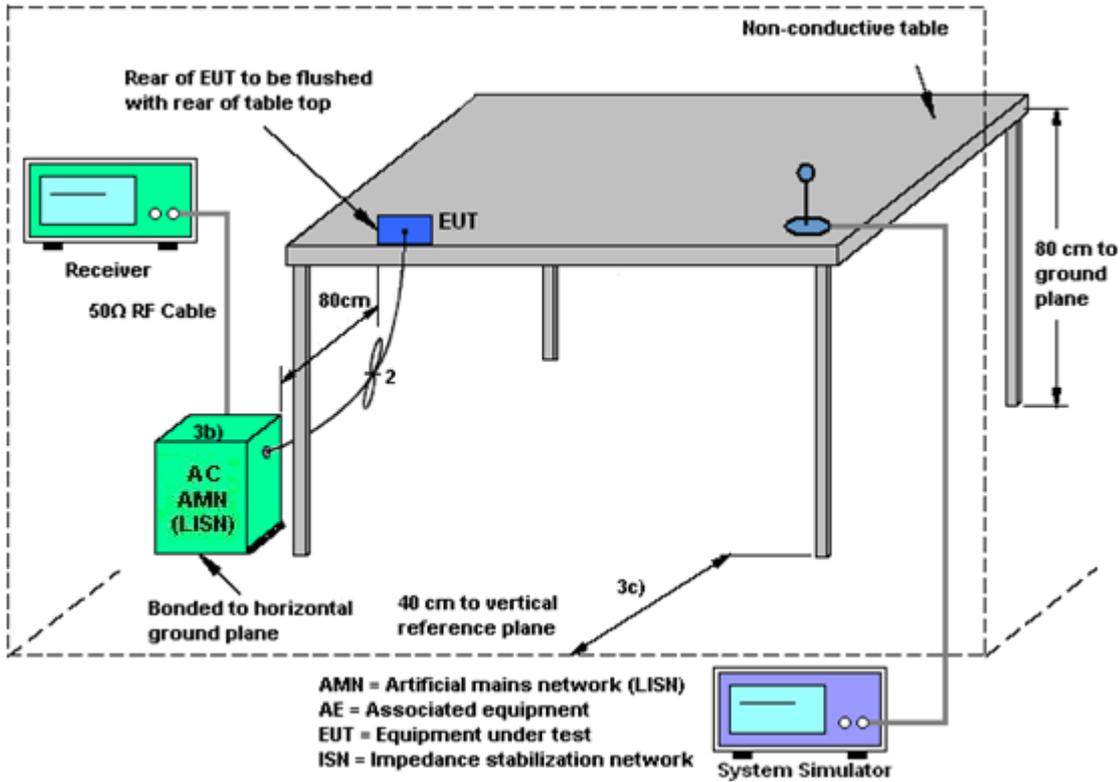
#### 3.5.2 Measuring Instruments

See list of measuring equipment 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

Please refer to Appendix B.



## **3.6 Automatically Discontinue Transmission**

### **3.6.1 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.

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

### **3.6.3 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.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

The antenna peak gain of EUT 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	1240001	N/A	Sep. 07, 2017	Aug. 09, 2018 ~ Aug. 31, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Aug. 09, 2018 ~ Aug. 31, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Aug. 09, 2018 ~ Aug. 31, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 07, 2017	Aug. 09, 2018 ~ Aug. 31, 2018	Nov. 06, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Aug. 09, 2018 ~ Aug. 31, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 31, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Dec. 08, 2017	Aug. 31, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Aug. 31, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 31, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Aug. 31, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Aug. 31, 2018	Jan. 02, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Nov. 09, 2018	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Jan. 10, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 09, 2019	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jun. 29, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jun. 28, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Nov. 26, 2018	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Jan. 19, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 18, 2020	Radiation (03CH13-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	171000180 0054002	1GHz~18GHz	Apr. 16, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Apr. 15, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Feb. 02, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Feb. 01, 2019	Radiation (03CH13-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jul. 15, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY532705 26	10Hz~44GHz	Mar. 15, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Mar. 14, 2019	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 16, 2018 ~ Sep. 01, 2018	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 16, 2018 ~ Sep. 01, 2018	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 53	20Hz to 26.5GHz	Jan. 16, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 15, 2019	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40S S	SN1	1G Lowpass Filter	Sep. 18, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Sep. 17, 2018	Radiation (03CH13-HY)
Filter	Woken	WHKX8-5872.5-6750-18000-40ST	SN3	6.75G Highpass	Sep. 18, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Sep. 17, 2018	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Jan. 22, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	335041/4	30M-18G	Jan. 22, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M~18GHz	Jan. 22, 2018	Aug. 16, 2018 ~ Sep. 01, 2018	Jan. 21, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Oct. 16, 2018	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Aug. 16, 2018 ~ Sep. 01, 2018	Oct. 16, 2018	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Aug. 16, 2018 ~ Sep. 01, 2018	N/A	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
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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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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.4
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.3
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2018/8/9~2018/8/31	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.95	-	25.70	-	-	-	22.29	-	
11a	6Mbps	1	44	5220	16.85	-	25.80	-	-	-	22.27	-	
11a	6Mbps	1	48	5240	16.90	-	26.15	-	-	-	22.28	-	
HT20	MCS0	1	36	5180	18.00	-	26.95	-	-	-	22.55	-	
HT20	MCS0	1	44	5220	17.95	-	27.40	-	-	-	22.54	-	
HT20	MCS0	1	48	5240	18.00	-	26.50	-	-	-	22.55	-	
HT40	MCS0	1	38	5190	36.60	-	41.87	-	-	-	23.01	-	
HT40	MCS0	1	46	5230	36.60	-	41.94	-	-	-	23.01	-	
VHT80	MCS0	1	42	5210	76.68	-	84.16	-	-	-	23.01	-	

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.24	-	18.99	-	24.00	-	-0.34	-	Pass
11a	6Mbps	1	44	5220	0.24	-	18.80	-	24.00	-	-0.34	-	Pass
11a	6Mbps	1	48	5240	0.24	-	18.79	-	24.00	-	-0.34	-	Pass
HT20	MCS0	1	36	5180	0.26	-	17.79	-	24.00	-	-0.34	-	Pass
HT20	MCS0	1	44	5220	0.26	-	17.74	-	24.00	-	-0.34	-	Pass
HT20	MCS0	1	48	5240	0.26	-	17.72	-	24.00	-	-0.34	-	Pass
HT40	MCS0	1	38	5190	0.44	-	16.70	-	24.00	-	-0.34	-	Pass
HT40	MCS0	1	46	5230	0.44	-	16.93	-	24.00	-	-0.34	-	Pass
VHT20	MCS0	1	36	5180	0.26	-	17.76	-	24.00	-	-0.34	-	Pass
VHT20	MCS0	1	44	5220	0.26	-	17.66	-	24.00	-	-0.34	-	Pass
VHT20	MCS0	1	48	5240	0.26	-	17.69	-	24.00	-	-0.34	-	Pass
VHT40	MCS0	1	38	5190	0.44	-	16.66	-	24.00	-	-0.34	-	Pass
VHT40	MCS0	1	46	5230	0.44	-	16.89	-	24.00	-	-0.34	-	Pass
VHT80	MCS0	1	42	5210	0.91	-	16.67	-	24.00	-	-0.34	-	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)		Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.24	-	8.73	-	11.00	-	-0.34	-	Pass
11a	6Mbps	1	44	5220	0.24	-	8.43	-	11.00	-	-0.34	-	Pass
11a	6Mbps	1	48	5240	0.24	-	8.28	-	11.00	-	-0.34	-	Pass
HT20	MCS0	1	36	5180	0.26	-	7.18	-	11.00	-	-0.34	-	Pass
HT20	MCS0	1	44	5220	0.26	-	6.87	-	11.00	-	-0.34	-	Pass
HT20	MCS0	1	48	5240	0.26	-	6.81	-	11.00	-	-0.34	-	Pass
HT40	MCS0	1	38	5190	0.44	-	3.34	-	11.00	-	-0.34	-	Pass
HT40	MCS0	1	46	5230	0.44	-	3.48	-	11.00	-	-0.34	-	Pass
VHT80	MCS0	1	42	5210	0.91	-	-0.03	-	11.00	-	-0.34	-	Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.80	-	25.10	-	23.25	-	29.25	-	23.98	-	
11a	6Mbps	1	60	5300	16.80	-	24.90	-	23.25	-	29.25	-	23.98	-	
11a	6Mbps	1	64	5320	16.80	-	25.30	-	23.25	-	29.25	-	23.98	-	
HT20	MCS0	1	52	5260	18.00	-	26.50	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	60	5300	18.00	-	26.15	-	23.55	-	29.55	-	23.98	-	
HT20	MCS0	1	64	5320	17.95	-	26.10	-	23.54	-	29.54	-	23.98	-	
HT40	MCS0	1	54	5270	36.70	-	41.94	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.60	-	41.99	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.68	-	84.80	-	23.98	-	30.00	-	23.98	-	

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band II														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.24	-	17.53	-	23.98	-	-0.57	-	26.99	Pass
11a	6Mbps	1	60	5300	0.24	-	17.43	-	23.98	-	-0.57	-	26.99	Pass
11a	6Mbps	1	64	5320	0.24	-	17.81	-	23.98	-	-0.57	-	26.99	Pass
HT20	MCS0	1	52	5260	0.26	-	17.49	-	23.98	-	-0.57	-	26.99	Pass
HT20	MCS0	1	60	5300	0.26	-	17.40	-	23.98	-	-0.57	-	26.99	Pass
HT20	MCS0	1	64	5320	0.26	-	17.73	-	23.98	-	-0.57	-	26.99	Pass
HT40	MCS0	1	54	5270	0.44	-	16.90	-	23.98	-	-0.57	-	26.99	Pass
HT40	MCS0	1	62	5310	0.44	-	15.44	-	23.98	-	-0.57	-	26.99	Pass
VHT20	MCS0	1	52	5260	0.26	-	17.46	-	23.98	-	-0.57	-	26.99	Pass
VHT20	MCS0	1	60	5300	0.26	-	17.35	-	23.98	-	-0.57	-	26.99	Pass
VHT20	MCS0	1	64	5320	0.26	-	17.67	-	23.98	-	-0.57	-	26.99	Pass
VHT40	MCS0	1	54	5270	0.44	-	16.87	-	23.98	-	-0.57	-	26.99	Pass
VHT40	MCS0	1	62	5310	0.44	-	15.40	-	23.98	-	-0.57	-	26.99	Pass
VHT80	MCS0	1	58	5290	0.91	-	14.88	-	23.98	-	-0.57	-	26.99	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

Band II													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)		Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.24	-	7.20	-	11.00	-	-0.57	-	Pass
11a	6Mbps	1	60	5300	0.24	-	7.17	-	11.00	-	-0.57	-	Pass
11a	6Mbps	1	64	5320	0.24	-	7.32	-	11.00	-	-0.57	-	Pass
HT20	MCS0	1	52	5260	0.26	-	6.63	-	11.00	-	-0.57	-	Pass
HT20	MCS0	1	60	5300	0.26	-	6.34	-	11.00	-	-0.57	-	Pass
HT20	MCS0	1	64	5320	0.26	-	6.63	-	11.00	-	-0.57	-	Pass
HT40	MCS0	1	54	5270	0.44	-	3.22	-	11.00	-	-0.57	-	Pass
HT40	MCS0	1	62	5310	0.44	-	1.55	-	11.00	-	-0.57	-	Pass
VHT80	MCS0	1	58	5290	0.91	-	-2.21	-	11.00	-	-0.57	-	Pass

**TEST RESULTS DATA**  
**26dB and 99% OBW**

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.85	-	25.45	-	23.27	-	29.27	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.90	-	26.45	-	23.28	-	29.28	-	23.98	-	----	----
11a	6Mbps	1	140	5700	17.00	-	27.05	-	23.30	-	29.30	-	23.98	-	----	----
11a	6Mbps	1	144	5720	13.55	-	19.25	-	22.32	-	28.32	-	23.84	-	2.55	-
HT20	MCS0	1	100	5500	17.95	-	26.50	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.00	-	26.60	-	23.55	-	29.55	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.95	-	27.00	-	23.54	-	29.54	-	23.98	-	----	----
HT20	MCS0	1	144	5720	14.00	-	18.85	-	22.46	-	28.46	-	23.75	-	3.35	-
HT40	MCS0	1	102	5510	36.50	-	41.86	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.60	-	41.94	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.60	-	41.94	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	142	5710	33.40	-	35.88	-	23.98	-	30.00	-	23.98	-	2.5	-
VHT80	MCS0	1	106	5530	76.80	-	84.16	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.92	-	84.16	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	138	5690	73.40	-	77.56	-	23.98	-	30.00	-	23.98	-	2.6	-

**TEST RESULTS DATA**  
**Average Power Table**

FCC Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.24	-	18.64	-	23.98	-	-0.24	-	26.99	Pass
11a	6Mbps	1	116	5580	0.24	-	18.90	-	23.98	-	-0.24	-	26.99	Pass
11a	6Mbps	1	140	5700	0.24	-	18.75	-	23.98	-	-0.24	-	26.99	Pass
11a	6Mbps	1	144	5720	0.24	-	18.88	-	23.84	-	-0.24	-	26.99	Pass
HT20	MCS0	1	100	5500	0.26	-	17.94	-	23.98	-	-0.24	-	26.99	Pass
HT20	MCS0	1	116	5580	0.26	-	17.92	-	23.98	-	-0.24	-	26.99	Pass
HT20	MCS0	1	140	5700	0.26	-	17.73	-	23.98	-	-0.24	-	26.99	Pass
HT20	MCS0	1	144	5720	0.26	-	17.83	-	23.75	-	-0.24	-	26.99	Pass
HT40	MCS0	1	102	5510	0.44	-	16.74	-	23.98	-	-0.24	-	26.99	Pass
HT40	MCS0	1	110	5550	0.44	-	16.75	-	23.98	-	-0.24	-	26.99	Pass
HT40	MCS0	1	134	5670	0.44	-	16.62	-	23.98	-	-0.24	-	26.99	Pass
HT40	MCS0	1	142	5710	0.44	-	16.95	-	23.98	-	-0.24	-	26.99	Pass
VHT20	MCS0	1	100	5500	0.26	-	17.91	-	23.98	-	-0.24	-	26.99	Pass
VHT20	MCS0	1	116	5580	0.26	-	17.89	-	23.98	-	-0.24	-	26.99	Pass
VHT20	MCS0	1	140	5700	0.26	-	17.69	-	23.98	-	-0.24	-	26.99	Pass
VHT20	MCS0	1	144	5720	0.26	-	17.81	-	23.75	-	-0.24	-	26.99	Pass
VHT40	MCS0	1	102	5510	0.44	-	16.72	-	23.98	-	-0.24	-	26.99	Pass
VHT40	MCS0	1	110	5550	0.44	-	16.71	-	23.98	-	-0.24	-	26.99	Pass
VHT40	MCS0	1	134	5670	0.44	-	16.60	-	23.98	-	-0.24	-	26.99	Pass
VHT40	MCS0	1	142	5710	0.44	-	16.90	-	23.98	-	-0.24	-	26.99	Pass
VHT80	MCS0	1	106	5530	0.91	-	16.97	-	23.98	-	-0.24	-	26.99	Pass
VHT80	MCS0	1	122	5610	0.91	-	16.62	-	23.98	-	-0.24	-	26.99	Pass
VHT80	MCS0	1	138	5690	0.91	-	16.87	-	23.98	-	-0.24	-	26.99	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

Band III													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)		Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.24	-	7.78	-	11.00	-	-0.24	-	Pass
11a	6Mbps	1	116	5580	0.24	-	8.56	-	11.00	-	-0.24	-	Pass
11a	6Mbps	1	140	5700	0.24	-	8.31	-	11.00	-	-0.24	-	Pass
11a	6Mbps	1	144	5720	0.24	-	8.51	-	11.00	-	-0.24	-	Pass
HT20	MCS0	1	100	5500	0.26	-	7.25	-	11.00	-	-0.24	-	Pass
HT20	MCS0	1	116	5580	0.26	-	7.46	-	11.00	-	-0.24	-	Pass
HT20	MCS0	1	140	5700	0.26	-	7.10	-	11.00	-	-0.24	-	Pass
HT20	MCS0	1	144	5720	0.26	-	7.13	-	11.00	-	-0.24	-	Pass
HT40	MCS0	1	102	5510	0.44	-	2.44	-	11.00	-	-0.24	-	Pass
HT40	MCS0	1	110	5550	0.44	-	2.72	-	11.00	-	-0.24	-	Pass
HT40	MCS0	1	134	5670	0.44	-	2.99	-	11.00	-	-0.24	-	Pass
HT40	MCS0	1	142	5710	0.44	-	3.16	-	11.00	-	-0.24	-	Pass
VHT80	MCS0	1	106	5530	0.91	-	0.08	-	11.00	-	-0.24	-	Pass
VHT80	MCS0	1	122	5610	0.91	-	0.05	-	11.00	-	-0.24	-	Pass
VHT80	MCS0	1	138	5690	0.91	-	0.24	-	11.00	-	-0.24	-	Pass



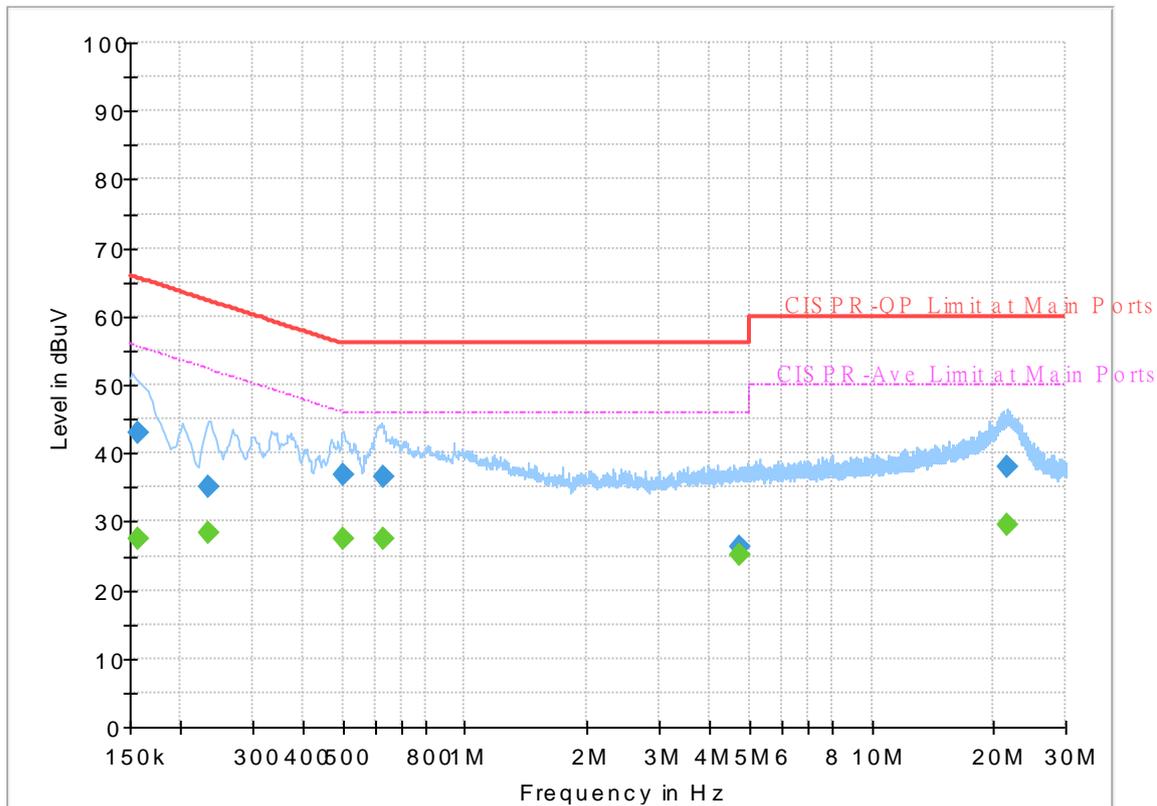
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	24~26°C
		Relative Humidity :	51~54%

# EUT Information

Report NO : 880207  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



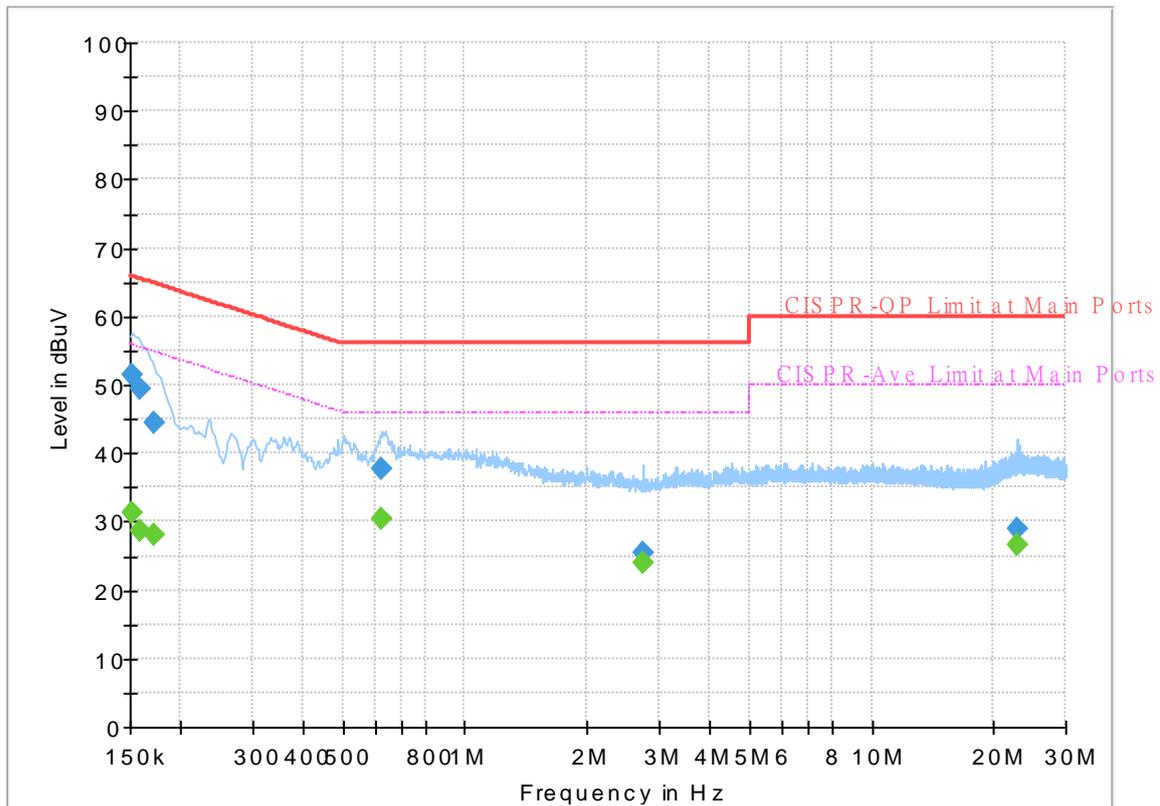
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	27.37	55.63	28.26	L1	OFF	19.5
0.156750	43.02	---	65.63	22.61	L1	OFF	19.5
0.233250	---	28.29	52.33	24.04	L1	OFF	19.5
0.233250	35.00	---	62.33	27.33	L1	OFF	19.5
0.503250	---	27.38	46.00	18.62	L1	OFF	19.5
0.503250	36.83	---	56.00	19.17	L1	OFF	19.5
0.627000	---	27.43	46.00	18.57	L1	OFF	19.6
0.627000	36.45	---	56.00	19.55	L1	OFF	19.6
4.710750	---	25.03	46.00	20.97	L1	OFF	19.7
4.710750	26.44	---	56.00	29.56	L1	OFF	19.7
21.457500	---	29.57	50.00	20.43	L1	OFF	20.3
21.457500	38.14	---	60.00	21.86	L1	OFF	20.3

## EUT Information

Report NO : 880207  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.15	55.88	24.73	N	OFF	19.5
0.152250	51.34	---	65.88	14.54	N	OFF	19.5
0.159000	---	28.53	55.52	26.99	N	OFF	19.5
0.159000	49.53	---	65.52	15.99	N	OFF	19.5
0.172500	---	28.08	54.84	26.76	N	OFF	19.5
0.172500	44.54	---	64.84	20.30	N	OFF	19.5
0.624750	---	30.47	46.00	15.53	N	OFF	19.6
0.624750	37.82	---	56.00	18.18	N	OFF	19.6
2.730750	---	24.01	46.00	21.99	N	OFF	19.6
2.730750	25.44	---	56.00	30.56	N	OFF	19.6
22.749000	---	26.51	50.00	23.49	N	OFF	20.4
22.749000	28.89	---	60.00	31.11	N	OFF	20.4



### Appendix C. Radiated Spurious Emission

Test Engineer :	Fu Chen, Alex Jheng, and Wilson Wu	Temperature :	24~26°C
		Relative Humidity :	48~51%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 36 5180MHz		5080.34	52.01	-21.99	74	41.82	31.65	8.08	29.54	300	46	P	H	
		5149.5	42.57	-11.43	54	32.26	31.69	8.17	29.55	300	46	A	H	
	*	5180	102.59	-	-	92.21	31.71	8.22	29.55	300	46	P	H	
	*	5180	95.25	-	-	84.87	31.71	8.22	29.55	300	46	A	H	
													H	
													H	
			5146.64	60.49	-13.51	74	50.18	31.69	8.17	29.55	140	360	P	V
			5147.68	45	-9	54	34.69	31.69	8.17	29.55	140	360	A	V
	*		5180	108.92	-	-	98.54	31.71	8.22	29.55	140	360	P	V
	*		5180	101.72	-	-	91.34	31.71	8.22	29.55	140	360	A	V
													V	
													V	
802.11a CH 44 5220MHz		5015.6	51.93	-22.07	74	41.86	31.61	7.99	29.53	285	45	P	H	
		5070.2	42.21	-11.79	54	32.05	31.64	8.06	29.54	285	45	A	H	
	*	5220	103.23	-	-	92.81	31.73	8.25	29.56	285	45	P	H	
	*	5220	95.76	-	-	85.34	31.73	8.25	29.56	285	45	A	H	
			5372.36	50.81	-23.19	74	40.26	31.82	8.3	29.57	285	45	P	H
			5449.64	41.37	-12.63	54	30.62	31.87	8.46	29.58	285	45	A	H
			5150	54.2	-19.8	74	43.89	31.69	8.17	29.55	126	360	P	V
			5148.2	42.95	-11.05	54	32.64	31.69	8.17	29.55	126	360	A	V
	*		5220	108.93	-	-	98.51	31.73	8.25	29.56	126	360	P	V
	*		5220	101.76	-	-	91.34	31.73	8.25	29.56	126	360	A	V
			5432	51.07	-22.93	74	40.38	31.86	8.41	29.58	126	360	P	V
			5446.56	41.61	-12.39	54	30.91	31.87	8.41	29.58	126	360	A	V



<b>802.11a CH 48 5240MHz</b>		5054.34	52.38	-21.62	74	42.23	31.63	8.06	29.54	296	46	P	H
		5053.82	42.29	-11.71	54	32.14	31.63	8.06	29.54	296	46	A	H
	*	5240	102.43	-	-	92	31.74	8.25	29.56	296	46	P	H
	*	5240	95.24	-	-	84.81	31.74	8.25	29.56	296	46	A	H
		5384.96	50.78	-23.22	74	40.23	31.83	8.3	29.58	296	46	P	H
		5456.64	41.59	-12.41	54	30.85	31.87	8.46	29.59	296	46	A	H
		5049.92	51.48	-22.52	74	41.35	31.63	8.04	29.54	127	360	P	V
		5150	42.34	-11.66	54	32.03	31.69	8.17	29.55	127	360	A	V
	*	5240	109.06	-	-	98.63	31.74	8.25	29.56	127	360	P	V
	*	5240	101.83	-	-	91.4	31.74	8.25	29.56	127	360	A	V
		5379.64	51.08	-22.92	74	40.53	31.83	8.3	29.58	127	360	P	V
		5458.32	41.67	-12.33	54	30.93	31.87	8.46	29.59	127	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 1 5150~5250MHz**

**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11a CH 36 5180MHz		10360	46.23	-21.97	68.2	54.14	39.76	12.34	60.01	100	0	P	H
		15540	45.31	-28.69	74	50.13	38.62	14.61	58.05	100	0	P	H
													H
													H
		10360	45.96	-22.24	68.2	53.87	39.76	12.34	60.01	100	0	P	V
		15540	45.21	-28.79	74	50.03	38.62	14.61	58.05	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	46.18	-22.02	68.2	54.09	39.88	12.36	60.15	100	0	P	H
		15660	43.69	-30.31	74	48.57	38.33	14.67	57.88	100	0	P	H
													H
													H
		10440	45.98	-22.22	68.2	53.89	39.88	12.36	60.15	100	0	P	V
		15660	44.43	-29.57	74	49.31	38.33	14.67	57.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	46.77	-21.43	68.2	54.68	39.97	12.38	60.26	100	0	P	H
		15720	44.18	-29.82	74	49.13	38.16	14.68	57.79	100	0	P	H
													H
													H
		10480	47.48	-20.72	68.2	55.39	39.97	12.38	60.26	100	0	P	V
		15720	45.19	-28.81	74	50.14	38.16	14.68	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 38 5190MHz		5149.24	52.94	-21.06	74	42.63	31.69	8.17	29.55	311	60	P	H
		5150	46.09	-7.91	54	35.78	31.69	8.17	29.55	311	60	A	H
	*	5190	97.88	-	-	87.5	31.71	8.22	29.55	311	60	P	H
	*	5190	90.3	-	-	79.92	31.71	8.22	29.55	311	60	A	H
		5440.68	49.99	-24.01	74	39.3	31.86	8.41	29.58	311	60	P	H
		5459.44	42.19	-11.81	54	31.45	31.87	8.46	29.59	311	60	A	H
		5150	57.5	-16.5	74	47.19	31.69	8.17	29.55	286	341	P	V
		5150	50.63	-3.37	54	40.32	31.69	8.17	29.55	286	341	A	V
	*	5190	104.17	-	-	93.79	31.71	8.22	29.55	286	341	P	V
	*	5190	96.5	-	-	86.12	31.71	8.22	29.55	286	341	A	V
		5448.8	50.86	-23.14	74	40.11	31.87	8.46	29.58	286	341	P	V
		5438.16	41.95	-12.05	54	31.26	31.86	8.41	29.58	286	341	A	V
802.11n HT40 CH 46 5230MHz		5108.42	51.01	-22.99	74	40.75	31.67	8.13	29.54	295	58	P	H
		5090.22	42.99	-11.01	54	32.77	31.66	8.1	29.54	295	58	A	H
	*	5230	97.73	-	-	87.3	31.74	8.25	29.56	295	58	P	H
	*	5230	90.38	-	-	79.95	31.74	8.25	29.56	295	58	A	H
		5407.36	50.25	-23.75	74	39.68	31.84	8.31	29.58	295	58	P	H
		5456.64	41.7	-12.3	54	30.96	31.87	8.46	29.59	295	58	A	H
		5132.6	51.28	-22.72	74	41	31.68	8.15	29.55	282	340	P	V
		5081.38	43.06	-10.94	54	32.87	31.65	8.08	29.54	282	340	A	V
	*	5230	105.04	-	-	94.61	31.74	8.25	29.56	282	340	P	V
	*	5230	97.41	-	-	86.98	31.74	8.25	29.56	282	340	A	V
	5453.28	50.61	-23.39	74	39.87	31.87	8.46	29.59	282	340	P	V	
	5457.76	42.07	-11.93	54	31.33	31.87	8.46	29.59	282	340	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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 )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5141.18	53.77	-20.23	74	43.48	31.69	8.15	29.55	307	55	P	H
		5149.76	46.45	-7.55	54	36.14	31.69	8.17	29.55	307	55	A	H
	*	5210	93.05	-	-	82.64	31.73	8.24	29.56	307	55	P	H
	*	5210	85.85	-	-	75.44	31.73	8.24	29.56	307	55	A	H
		5458.04	50.15	-23.85	74	39.41	31.87	8.46	29.59	307	55	P	H
		5455.8	41.83	-12.17	54	31.09	31.87	8.46	29.59	307	55	A	H
		5148.72	57.77	-16.23	74	47.46	31.69	8.17	29.55	284	6	P	V
		5150	50.68	-3.32	54	40.37	31.69	8.17	29.55	284	6	A	V
	*	5210	100.76	-	-	90.35	31.73	8.24	29.56	284	6	P	V
	*	5210	93.44	-	-	83.03	31.73	8.24	29.56	284	6	A	V
		5454.68	51.08	-22.92	74	40.34	31.87	8.46	29.59	284	6	P	V
	5454.68	41.9	-12.1	54	31.16	31.87	8.46	29.59	284	6	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11a CH 52 5260MHz		5075.14	51.55	-22.45	74	41.36	31.65	8.08	29.54	320	285	P	H
		5111.18	42.17	-11.83	54	31.91	31.67	8.13	29.54	320	285	A	H
	*	5260	102.31	-	-	91.85	31.76	8.26	29.56	320	285	P	H
	*	5260	95.18	-	-	84.72	31.76	8.26	29.56	320	285	A	H
		5452.8	50.65	-23.35	74	39.91	31.87	8.46	29.59	320	285	P	H
		5456.16	41.34	-12.66	54	30.6	31.87	8.46	29.59	320	285	A	H
		5111.18	51.2	-22.8	74	40.94	31.67	8.13	29.54	253	0	P	V
		5048.28	42.32	-11.68	54	32.19	31.63	8.04	29.54	253	0	A	V
	*	5260	108.99	-	-	98.53	31.76	8.26	29.56	253	0	P	V
	*	5260	101.53	-	-	91.07	31.76	8.26	29.56	253	0	A	V
		5365.92	49.87	-24.13	74	39.32	31.82	8.3	29.57	253	0	P	V
		5454	41.46	-12.54	54	30.72	31.87	8.46	29.59	253	0	A	V
802.11a CH 60 5300MHz		5037.74	52.31	-21.69	74	42.17	31.63	8.04	29.53	300	296	P	H
		5079.56	42.3	-11.7	54	32.11	31.65	8.08	29.54	300	296	A	H
	*	5300	101.18	-	-	90.7	31.78	8.27	29.57	300	296	P	H
	*	5300	94.03	-	-	83.55	31.78	8.27	29.57	300	296	A	H
		5451.36	50.54	-23.46	74	39.8	31.87	8.46	29.59	300	296	P	H
		5457.12	41.56	-12.44	54	30.82	31.87	8.46	29.59	300	296	A	H
		5029.58	51.14	-22.86	74	41.04	31.62	8.01	29.53	247	0	P	V
		5002.38	42.19	-11.81	54	32.13	31.6	7.99	29.53	247	0	A	V
	*	5300	107.3	-	-	96.82	31.78	8.27	29.57	247	0	P	V
	*	5300	100.1	-	-	89.62	31.78	8.27	29.57	247	0	A	V
		5388.72	51.77	-22.23	74	41.22	31.83	8.3	29.58	247	0	P	V
		5353.44	42.48	-11.52	54	31.95	31.81	8.29	29.57	247	0	A	V



<b>802.11a CH 64 5320MHz</b>	*	5320	101.76	-	-	91.26	31.79	8.28	29.57	309	286	P	H
	*	5320	94.37	-	-	83.87	31.79	8.28	29.57	309	286	A	H
		5353.92	50.88	-23.12	74	40.35	31.81	8.29	29.57	309	286	P	H
		5350.24	42.04	-11.96	54	31.51	31.81	8.29	29.57	309	286	A	H
													H
													H
	*	5320	106.9	-	-	96.4	31.79	8.28	29.57	246	1	P	V
	*	5320	99.66	-	-	89.16	31.79	8.28	29.57	246	1	A	V
		5350.4	51.83	-22.17	74	41.3	31.81	8.29	29.57	246	1	P	V
		5350.08	43.68	-10.32	54	33.15	31.81	8.29	29.57	246	1	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	46.62	-21.58	68.2	54.55	40.02	12.39	60.34	100	0	P	H
		15780	43.48	-30.52	74	48.44	38.04	14.71	57.71	100	0	P	H
													H
													H
		10520	47.11	-21.09	68.2	55.04	40.02	12.39	60.34	100	0	P	V
		15780	43.85	-30.15	74	48.81	38.04	14.71	57.71	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	46.49	-27.51	74	54.53	40.1	12.41	60.55	100	0	P	H
		15900	44.64	-29.36	74	49.66	37.75	14.77	57.54	100	0	P	H
													H
													H
		10600	47.11	-26.89	74	55.15	40.1	12.41	60.55	100	0	P	V
		15900	44.73	-29.27	74	49.75	37.75	14.77	57.54	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	47.9	-26.1	74	55.98	40.14	12.41	60.63	100	0	P	H
		15960	45.02	-28.98	74	50.11	37.58	14.78	57.45	100	0	P	H
													H
													H
		10640	48.5	-25.5	74	56.58	40.14	12.41	60.63	100	0	P	V
		15960	44.07	-29.93	74	49.16	37.58	14.78	57.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5046.24	51.52	-22.48	74	41.39	31.63	8.04	29.54	301	285	P	H
		5117.98	42.99	-11.01	54	32.73	31.67	8.13	29.54	301	285	A	H
	*	5270	98.05	-	-	87.58	31.76	8.27	29.56	301	285	P	H
	*	5270	90.42	-	-	79.95	31.76	8.27	29.56	301	285	A	H
		5437.92	50.77	-23.23	74	40.08	31.86	8.41	29.58	301	285	P	H
		5450.64	42.23	-11.77	54	31.49	31.87	8.46	29.59	301	285	A	H
		5088.74	50.95	-23.05	74	40.73	31.66	8.1	29.54	237	0	P	V
		5008.5	43.06	-10.94	54	32.99	31.61	7.99	29.53	237	0	A	V
	*	5270	103.6	-	-	93.13	31.76	8.27	29.56	237	0	P	V
	*	5270	96.31	-	-	85.84	31.76	8.27	29.56	237	0	A	V
		5352.48	53.07	-20.93	74	42.54	31.81	8.29	29.57	237	0	P	V
		5350.8	42.16	-11.84	54	31.63	31.81	8.29	29.57	237	0	A	V
802.11n HT40 CH 62 5310MHz		5141.78	51.23	-22.77	74	40.94	31.69	8.15	29.55	313	286	P	H
		5028.56	43.05	-10.95	54	32.95	31.62	8.01	29.53	313	286	A	H
	*	5310	95.65	-	-	85.15	31.79	8.28	29.57	313	286	P	H
	*	5310	88.21	-	-	77.71	31.79	8.28	29.57	313	286	A	H
		5352	52.63	-21.37	74	42.1	31.81	8.29	29.57	313	286	P	H
		5350.32	45.3	-8.7	54	34.77	31.81	8.29	29.57	313	286	A	H
		5069.36	50.53	-23.47	74	40.37	31.64	8.06	29.54	260	348	P	V
		5061.88	43.09	-10.91	54	32.93	31.64	8.06	29.54	260	348	A	V
	*	5310	101.65	-	-	91.15	31.79	8.28	29.57	260	348	P	V
	*	5310	93.92	-	-	83.42	31.79	8.28	29.57	260	348	A	V
	5351.52	56.6	-17.4	74	46.07	31.81	8.29	29.57	260	348	P	V	
	5350.08	49.77	-4.23	54	39.24	31.81	8.29	29.57	260	348	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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 )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5102	50.75	-23.25	74	40.53	31.66	8.1	29.54	317	288	P	H
		5047.26	43	-11	54	32.87	31.63	8.04	29.54	317	288	A	H
	*	5290	92.36	-	-	81.88	31.77	8.27	29.56	317	288	P	H
	*	5290	84.97	-	-	74.49	31.77	8.27	29.56	317	288	A	H
		5352.96	52.81	-21.19	74	42.28	31.81	8.29	29.57	317	288	P	H
		5352.96	45.93	-8.07	54	35.4	31.81	8.29	29.57	317	288	A	H
		5120.7	51.7	-22.3	74	41.45	31.67	8.13	29.55	266	347	P	V
		5119.34	42.93	-11.07	54	32.68	31.67	8.13	29.55	266	347	A	V
	*	5290	98.25	-	-	87.77	31.77	8.27	29.56	266	347	P	V
	*	5290	90.63	-	-	80.15	31.77	8.27	29.56	266	347	A	V
		5352.72	57.35	-16.65	74	46.82	31.81	8.29	29.57	266	347	P	V
	5352.96	50.06	-3.94	54	39.53	31.81	8.29	29.57	266	347	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
802.11a CH 100 5500MHz		5458.96	51.54	-22.46	74	40.8	31.87	8.46	29.59	185	299	P	H	
		5469.04	50.97	-17.23	68.2	40.17	31.88	8.51	29.59	185	299	P	H	
		5459.28	41.79	-12.21	54	31.05	31.87	8.46	29.59	185	299	A	H	
	*	5500	100.5	-	-	89.63	31.9	8.56	29.59	185	299	P	H	
	*	5500	93.09	-	-	82.22	31.9	8.56	29.59	185	299	A	H	
														H
			5453.52	53.11	-20.89	74	42.37	31.87	8.46	29.59	128	22	P	V
			5463.6	50.98	-17.22	68.2	40.23	31.88	8.46	29.59	128	22	P	V
			5456.4	41.94	-12.06	54	31.2	31.87	8.46	29.59	128	22	P	V
	*		5500	98.6	-	-	87.73	31.9	8.56	29.59	128	22	P	V
	*		5500	91.24	-	-	80.37	31.9	8.56	29.59	128	22	A	V
														V
802.11a CH 116 5580MHz		5420.56	50.51	-23.49	74	39.88	31.85	8.36	29.58	188	295	P	H	
		5466.4	49.69	-18.51	68.2	38.89	31.88	8.51	29.59	188	295	P	H	
		5458	41.4	-12.6	54	30.66	31.87	8.46	29.59	188	295	A	H	
	*	5580	104.55	-	-	93.38	32	8.8	29.63	188	295	P	H	
	*	5580	97.15	-	-	85.98	32	8.8	29.63	188	295	A	H	
			5725	52.07	-16.13	68.2	40.72	32.21	8.82	29.68	188	295	P	H
			5384.8	50.74	-23.26	74	40.19	31.83	8.3	29.58	119	360	P	V
			5468.08	50.41	-17.79	68.2	39.61	31.88	8.51	29.59	119	360	P	V
			5456.56	41.73	-12.27	54	30.99	31.87	8.46	29.59	119	360	A	V
	*		5580	101.48	-	-	90.31	32	8.8	29.63	119	360	P	V
	*		5580	93.97	-	-	82.8	32	8.8	29.63	119	360	A	V
			5748.62	51.32	-16.88	68.2	39.96	32.24	8.81	29.69	119	360	P	V



<b>802.11a</b> <b>CH 140</b> <b>5700MHz</b>	*	5700	108.92	-	-	97.6	32.17	8.82	29.67	202	0	P	H
	*	5700	101.74	-	-	90.42	32.17	8.82	29.67	202	0	A	H
		5725.72	58.15	-10.05	68.2	46.8	32.21	8.82	29.68	202	0	P	H
													H
													H
													H
	*	5700	106.14	-	-	94.82	32.17	8.82	29.67	100	352	P	V
	*	5700	99	-	-	87.68	32.17	8.82	29.67	100	352	A	V
		5725.16	60.54	-7.66	68.2	49.19	32.21	8.82	29.68	100	352	P	V
													V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 100 5500MHz		11000	49.03	-24.97	74	57.52	40.5	12.51	61.5	100	0	P	H	
		16500	46.72	-21.48	68.2	49.7	39.4	14.92	57.3	100	0	P	H	
													H	
													H	
			11000	49.67	-24.33	74	58.16	40.5	12.51	61.5	100	0	P	V
			16500	45.98	-22.22	68.2	48.96	39.4	14.92	57.3	100	0	P	V
														V
														V
802.11a CH 116 5580MHz		11160	55.27	-18.73	74	63.91	40.3	12.59	61.53	101	0	P	H	
		11160	45.34	-8.66	54	53.98	40.3	12.59	61.53	101	0	A	H	
		16740	46.41	-21.79	68.2	48.58	39.69	14.96	56.82	100	0	P	H	
													H	
			11160	54.81	-19.19	74	63.45	40.3	12.59	61.53	101	334	P	V
			11160	45.09	-8.91	54	53.73	40.3	12.59	61.53	101	334	A	V
			16740	46.18	-22.02	68.2	48.35	39.69	14.96	56.82	100	0	P	V
														V
802.11a CH 140 5700MHz		11400	55.98	-18.02	74	64.82	40.02	12.72	61.58	102	8	P	H	
		11400	45.94	-8.06	54	54.78	40.02	12.72	61.58	102	8	A	H	
		17100	48.12	-20.08	68.2	48.78	40.36	15.06	56.08	100	0	P	H	
													H	
			11400	52.71	-21.29	74	61.55	40.02	12.72	61.58	103	42	P	V
			11400	43.54	-10.46	54	52.38	40.02	12.72	61.58	103	42	A	V
			17100	47.14	-21.06	68.2	47.8	40.36	15.06	56.08	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
<b>802.11n HT40 CH 102 5510MHz</b>		5459.2	51.52	-22.48	74	40.78	31.87	8.46	29.59	180	300	P	H
		5469.04	53.92	-14.28	68.2	43.12	31.88	8.51	29.59	180	300	P	H
		5452.48	42.53	-11.47	54	31.79	31.87	8.46	29.59	180	300	A	H
	*	5510	97.05	-	-	86.15	31.9	8.6	29.6	180	300	P	H
	*	5510	88.97	-	-	78.07	31.9	8.6	29.6	180	300	A	H
		5746.73	51.64	-16.56	68.2	40.28	32.24	8.81	29.69	180	300	P	H
		5452.96	54.28	-19.72	74	43.54	31.87	8.46	29.59	134	16	P	V
		5469.52	54.43	-13.77	68.2	43.63	31.88	8.51	29.59	134	16	P	V
		5457.28	42.61	-11.39	54	31.87	31.87	8.46	29.59	134	16	A	V
	*	5510	95.15	-	-	84.25	31.9	8.6	29.6	134	16	P	V
	*	5510	87.25	-	-	76.35	31.9	8.6	29.6	134	16	A	V
		5735.075	51.7	-16.5	68.2	40.33	32.24	8.82	29.69	134	16	P	V
<b>802.11n HT40 CH 110 5550MHz</b>		5433.28	51.13	-22.87	74	40.44	31.86	8.41	29.58	180	300	P	H
		5469.52	51.34	-16.86	68.2	40.54	31.88	8.51	29.59	180	300	P	H
		5459.44	42.1	-11.9	54	31.36	31.87	8.46	29.59	180	300	A	H
	*	5550	99.38	-	-	88.32	31.97	8.7	29.61	180	300	P	H
	*	5550	91.37	-	-	80.31	31.97	8.7	29.61	180	300	A	H
		5763.425	53.61	-14.59	68.2	42.25	32.26	8.81	29.71	180	300	P	H
		5436.88	50.24	-23.76	74	39.55	31.86	8.41	29.58	126	14	P	V
		5463.76	50.28	-17.92	68.2	39.53	31.88	8.46	29.59	126	14	P	V
		5459.68	42.57	-11.43	54	31.83	31.87	8.46	29.59	126	14	A	V
	*	5550	96.11	-	-	85.05	31.97	8.7	29.61	126	14	P	V
	*	5550	87.53	-	-	76.47	31.97	8.7	29.61	126	14	A	V
		5730.35	51.49	-16.71	68.2	40.15	32.21	8.82	29.69	126	14	P	V



<b>802.11n</b>  <b>HT40</b>  <b>CH 134</b>  <b>5670MHz</b>		5390.25	50.32	-23.68	74	39.77	31.83	8.3	29.58	201	1	P	H
		5460.25	49.99	-18.21	68.2	39.25	31.87	8.46	29.59	201	1	P	H
		5455.7	42.06	-11.94	54	31.32	31.87	8.46	29.59	201	1	A	H
	*	5670	103.79	-	-	92.48	32.14	8.83	29.66	201	1	P	H
	*	5670	95.89	-	-	84.58	32.14	8.83	29.66	201	1	A	H
		5727.2	61.23	-6.97	68.2	49.88	32.21	8.82	29.68	201	1	P	H
		5448	50.97	-23.03	74	40.22	31.87	8.46	29.58	100	352	P	V
		5463.05	50.21	-17.99	68.2	39.46	31.88	8.46	29.59	100	352	P	V
		5453.95	42.17	-11.83	54	31.43	31.87	8.46	29.59	100	352	A	V
	*	5670	101.51	-	-	90.2	32.14	8.83	29.66	100	352	P	V
	*	5670	93.74	-	-	82.43	32.14	8.83	29.66	100	352	A	V
		5735.075	57.62	-10.58	68.2	46.25	32.24	8.82	29.69	100	352	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ac VHT80 CH 106 5530MHz		5427.28	52.28	-21.72	74	41.65	31.85	8.36	29.58	182	299	P	H
		5469.04	53.94	-14.26	68.2	43.14	31.88	8.51	29.59	182	299	P	H
		5455.84	42.98	-11.02	54	32.24	31.87	8.46	29.59	182	299	A	H
	*	5530	95.53	-	-	84.57	31.92	8.65	29.61	182	299	P	H
	*	5530	87.52	-	-	76.56	31.92	8.65	29.61	182	299	A	H
		5750.195	52.36	-15.84	68.2	41	32.24	8.81	29.69	182	299	P	H
		5456.8	51.31	-22.69	74	40.57	31.87	8.46	29.59	130	17	P	V
		5464	51.92	-16.28	68.2	41.17	31.88	8.46	29.59	130	17	P	V
		5446.72	42.89	-11.11	54	32.19	31.87	8.41	29.58	130	17	A	V
	*	5530	92.36	-	-	81.4	31.92	8.65	29.61	130	17	P	V
	*	5530	84.01	-	-	73.05	31.92	8.65	29.61	130	17	A	V
	5729.405	50.99	-17.21	68.2	39.64	32.21	8.82	29.68	130	17	P	V	
802.11ac VHT80 CH 122 5610MHz		5450.56	51.33	-22.67	74	40.59	31.87	8.46	29.59	164	306	P	H
		5466.4	50.1	-18.1	68.2	39.3	31.88	8.51	29.59	164	306	P	H
		5446.72	42.19	-11.81	54	31.49	31.87	8.41	29.58	164	306	A	H
	*	5610	98.63	-	-	87.38	32.04	8.85	29.64	164	306	P	H
	*	5610	90.65	-	-	79.4	32.04	8.85	29.64	164	306	A	H
		5737.28	52.51	-15.69	68.2	41.15	32.24	8.81	29.69	164	306	P	H
		5394.64	51.07	-22.93	74	40.5	31.84	8.31	29.58	101	351	P	V
		5461.12	50.26	-17.94	68.2	39.52	31.87	8.46	29.59	101	351	P	V
		5448.16	42.56	-11.44	54	31.81	31.87	8.46	29.58	101	351	A	V
	*	5610	95.6	-	-	84.35	32.04	8.85	29.64	101	351	P	V
	*	5610	87.48	-	-	76.23	32.04	8.85	29.64	101	351	A	V
	5749.565	51.45	-16.75	68.2	40.09	32.24	8.81	29.69	101	351	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 3 - Straddle Channel**

**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 144 5720MHz	*	5720	109.06	-	-	97.71	32.21	8.82	29.68	170	308	P	H
	*	5720	101.8	-	-	90.45	32.21	8.82	29.68	170	308	A	H
													H
													H
													H
	*	5720	106.91	-	-	95.56	32.21	8.82	29.68	109	340	P	V
	*	5720	99.73	-	-	88.38	32.21	8.82	29.68	109	340	A	V
													V
													V
													V
													V
	<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



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

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11a CH 144 at 5720MHz and a Remark section.



**Band 3 - Straddle Channel  
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 )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 142 5710MHz	*	5710	104.38	-	-	93.05	32.19	8.82	29.68	158	308	P	H
	*	5710	97.31	-	-	85.98	32.19	8.82	29.68	158	308	A	H
													H
													H
													H
													H
	*	5710	101.63	-	-	90.3	32.19	8.82	29.68	100	341	P	V
	*	5710	94.57	-	-	83.24	32.19	8.82	29.68	100	341	A	V
													V
													V
												V	
												V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level (dBμV)	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	100.03	-	-	88.7	32.17	8.83	29.67	135	343	P	H
	*	5690	92.65	-	-	81.32	32.17	8.83	29.67	135	343	A	H
													H
													H
													H
													H
	*	5690	98.44	-	-	87.11	32.17	8.83	29.67	100	351	P	V
	*	5690	90.62	-	-	79.29	32.17	8.83	29.67	100	351	A	V
													V
													V
												V	
												V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 )	
802.11ac VHT80 LF		30.54	23.91	-16.09	40	31.5	23.96	0.79	32.34	-	-	P	H	
		100.2	24	-19.5	43.5	38.78	16.15	1.36	32.29	-	-	P	H	
		124.5	19.34	-24.16	43.5	32.72	17.53	1.38	32.29	-	-	P	H	
		780.9	31.04	-14.96	46	31.44	28.27	3.35	32.02	-	-	P	H	
		881.7	31.66	-14.34	46	30.75	28.98	3.53	31.6	-	-	P	H	
		959.4	34.01	-11.99	46	30.15	31.12	3.71	30.97	100	0	P	H	
														H
														H
														H
														H
														H
														H
			30.81	36.12	-3.88	40	43.71	23.96	0.79	32.34	100	0	P	V
			48.36	35.37	-4.63	40	51.4	15.3	0.99	32.32	-	-	P	V
			60.51	26.71	-13.29	40	45.92	12.06	1.04	32.31	-	-	P	V
			825	30.93	-15.07	46	31.07	28.29	3.44	31.87	-	-	P	V
			897.1	32.09	-13.91	46	31.04	29.02	3.55	31.52	-	-	P	V
			959.4	34.03	-11.97	46	30.17	31.12	3.71	30.97	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



**Note symbol**

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



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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path 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) + Path 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 D. Radiated Spurious Emission Plots

Test Engineer :	Fu Chen, Alex Jheng, and Wilson Wu	Temperature :	24~26°C
		Relative Humidity :	48~51%

**Note symbol**

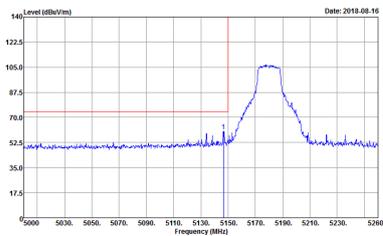
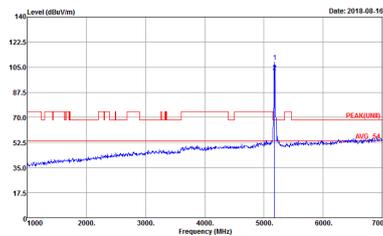
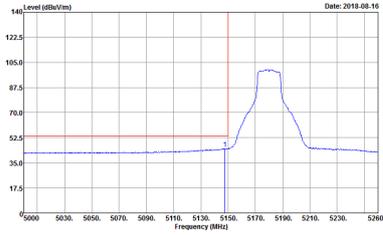
-L	Low channel location
-R	High channel location



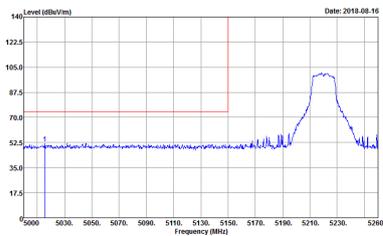
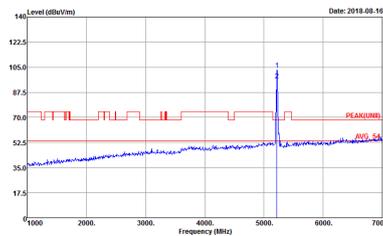
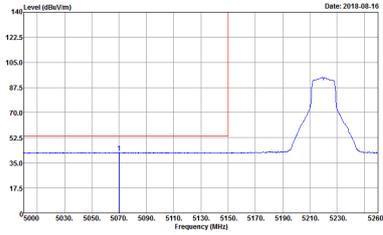
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 1</p>	<p>Site : 03CH13-HY            Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 1</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AV6_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 1</p>	<b>Left blank</b>

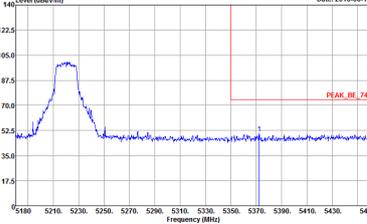
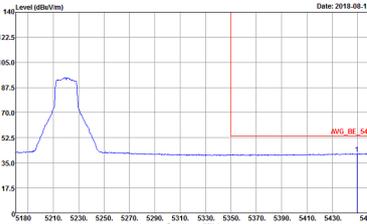


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 1</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 1</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 1</p>	<p><b>Left blank</b></p>

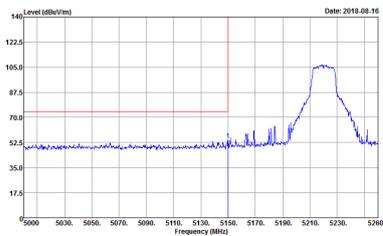
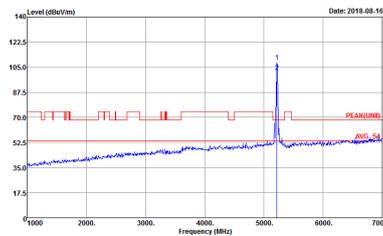
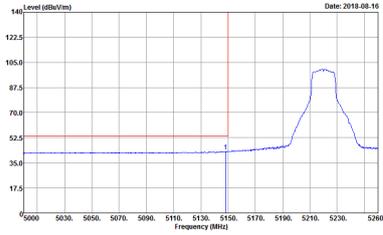


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z</p>	 <p>Site : 03CH13-HY            Condition : PEAKUNII 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z</p>	<p><b>Left blank</b></p>

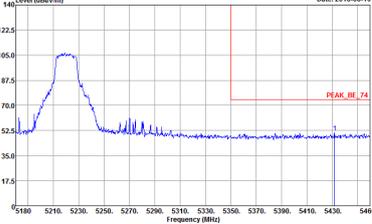
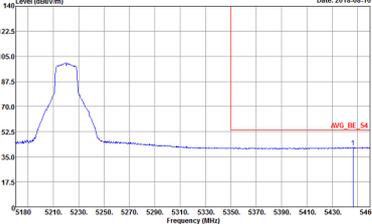


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z</p>	<p>Left blank</p>

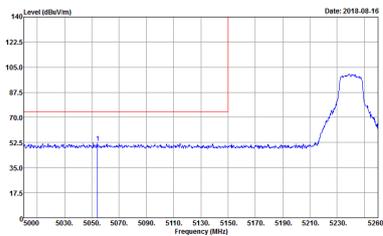
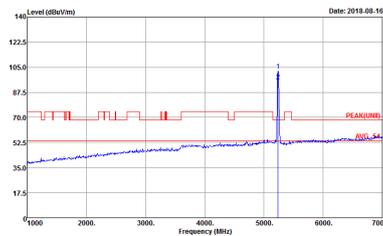
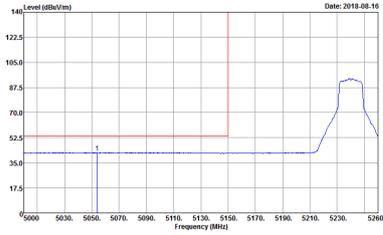


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z</p>	<p><b>Left blank</b></p>

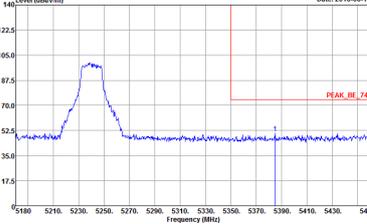
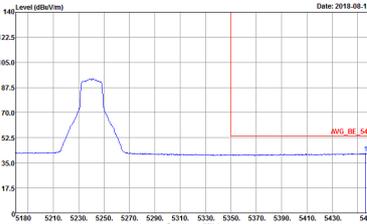


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z</p>	<p>Left blank</p>

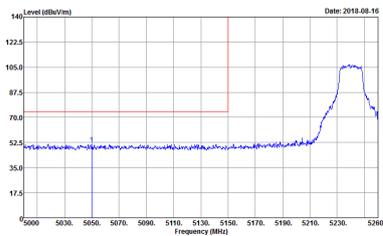
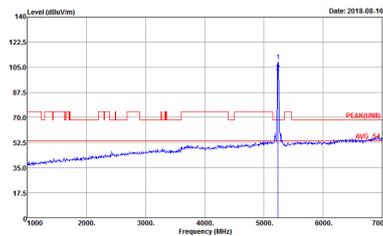
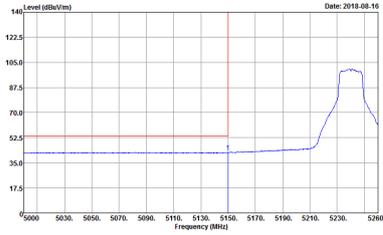


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 3</p>	 <p>Site : 03CH13-HY            Condition : PEAKUNIII 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 3</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p><b>Left blank</b></p>

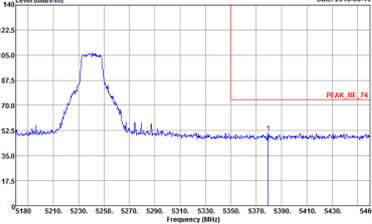
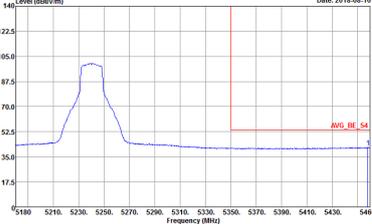


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p>Left blank</p>



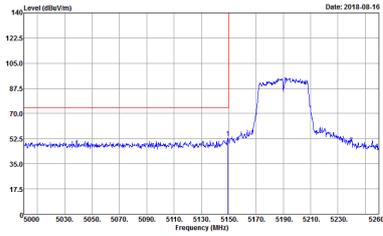
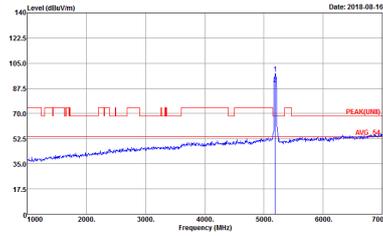
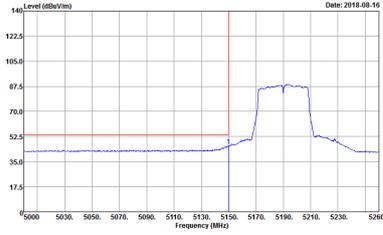
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 3</p>	 <p>Site : 03CH13-HY            Condition : PEAKUNII 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 3</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p><b>Left blank</b></p>



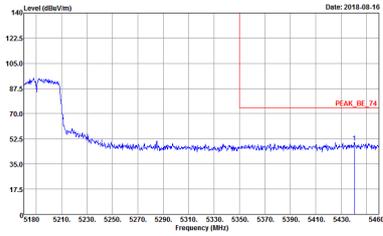
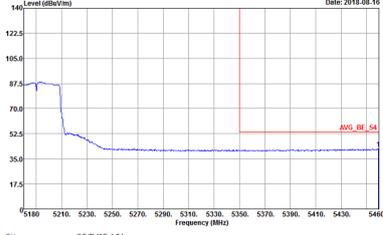
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 3</p>	<p>Left blank</p>



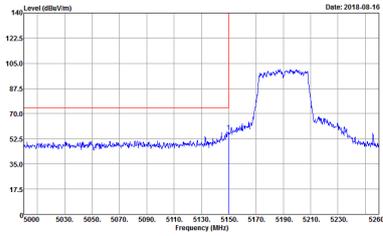
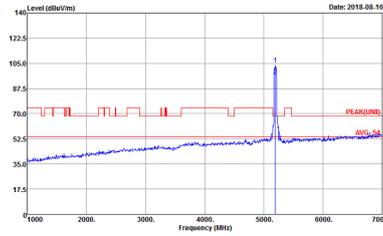
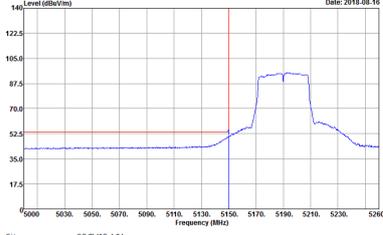
**Band 1 5150~5250MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 7</p>	 <p>Site : 03CH13-HY            Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 7</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 7</p>	<p><b>Left blank</b></p>

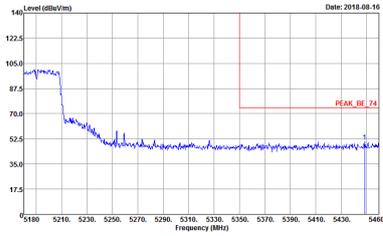
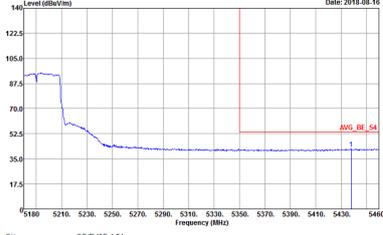


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 7</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 7</p>	<p>Left blank</p>

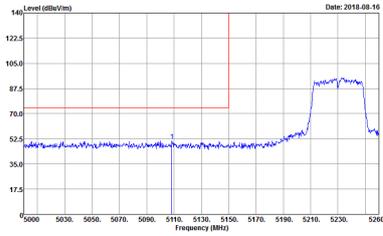
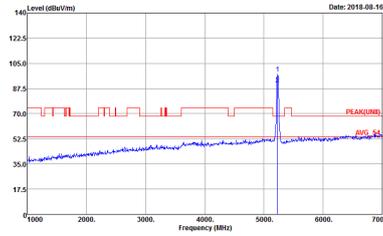
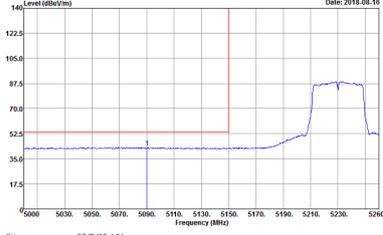


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 7</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 7</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 7</p>	<p><b>Left blank</b></p>

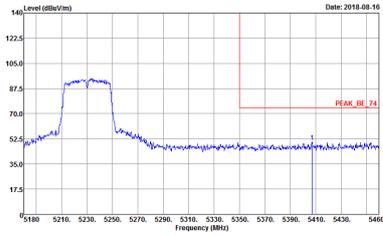
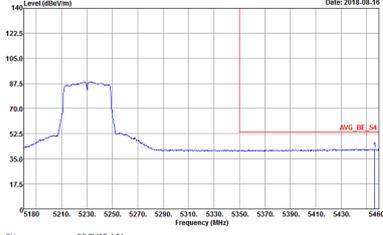


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 7</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 7</p>	<p>Left blank</p>

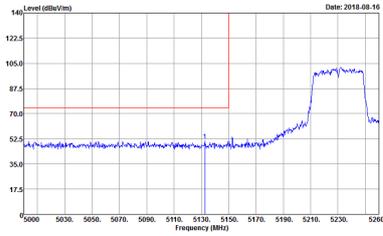
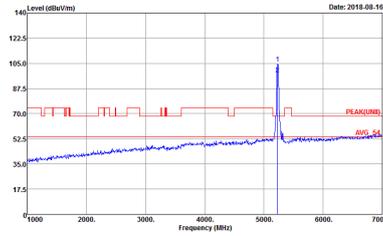
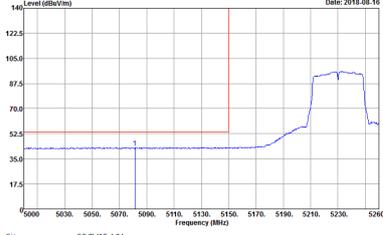


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 8</p>	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL            RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 8</p>
Avg.	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            RBW:1000.000kHz VBW:3.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 8</p>	Left blank

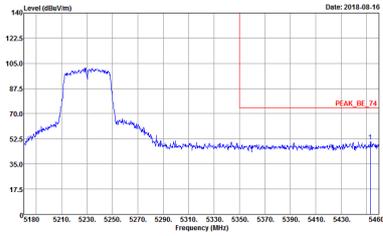
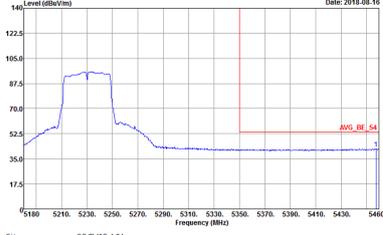


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 8</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 8</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 8</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 8</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 8</p>	<p><b>Left blank</b></p>



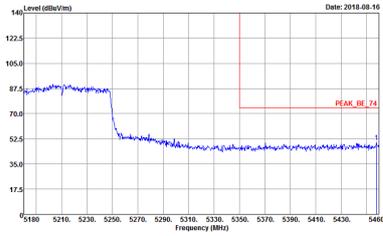
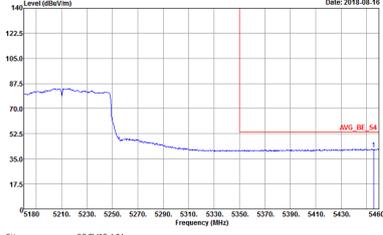
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 8</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 8</p>	<p>Left blank</p>



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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Site : 03CH13-HY            Condition : PEAK(FUN) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 9</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 9</p>	<b>Left blank</b>

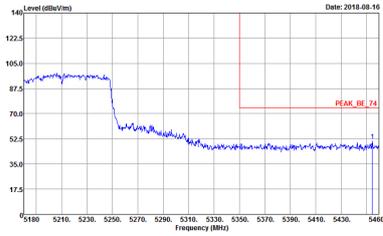
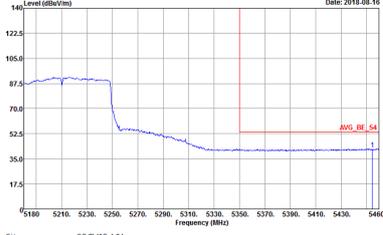


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Left blank</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 9</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 9</p>	<b>Left blank</b>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            RBW:1000.000kHz VBW:3000.000kHz SWF:Auto            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2018-08-16</p> <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            RBW:1000.000kHz VBW:3.000kHz SWF:Auto            Detector : Peak            Project : 880207            Mode : 9</p>	<p>Left blank</p>



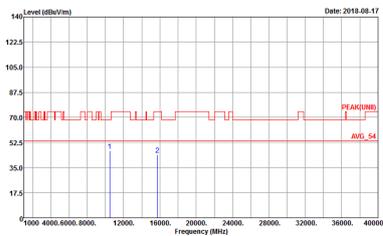
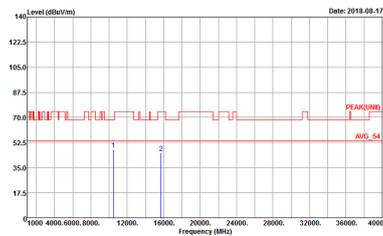
**Band 1 - 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

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



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	<p>Site : 03CH12-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 HORIZONTAL          Detector : Peak          Project : 880207          Mode : Z</p>	<p>Site : 03CH12-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 VERTICAL          Detector : Peak          Project : 880207          Mode : Z</p>



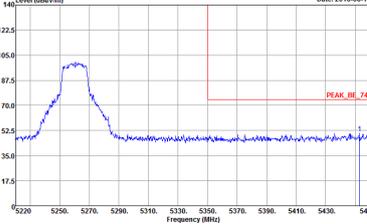
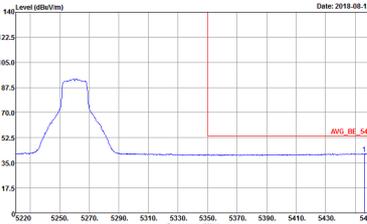
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 HORIZONTAL          Detector : Peak          Project : 880207          Mode : 3</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 VERTICAL          Detector : Peak          Project : 880207          Mode : 3</p>



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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 10</p>	<p>Site : 03CH13-HY            Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 10</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AV6_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 10</p>	<b>Left blank</b>

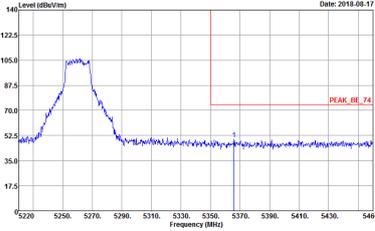
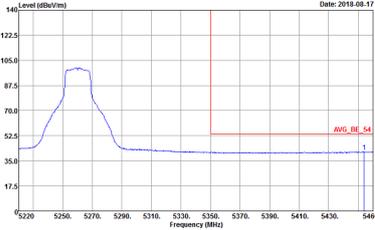


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : ID</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : ID</p>	<p>Left blank</p>

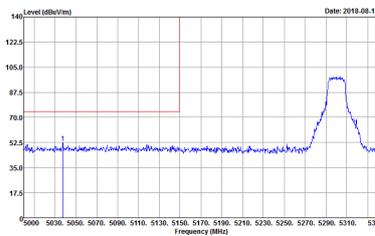
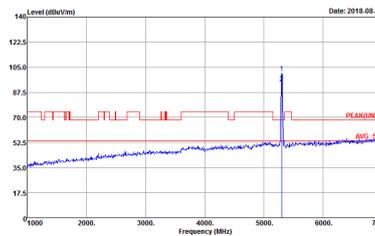
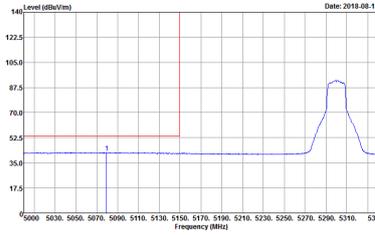


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 10</p>	<p>Site : 03CH13-HY            Condition : PEAK(UM) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 10</p>
<p><b>Avg.</b></p>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 10</p>	<p><b>Left blank</b></p>

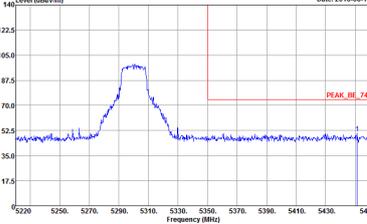
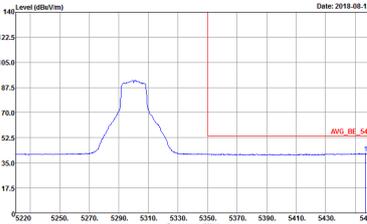


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : ID</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : ID</p>	<p>Left blank</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>	 <p>Site : 03CH13-HY            Condition : PEAKUNII 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:1000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>	<p><b>Left blank</b></p>

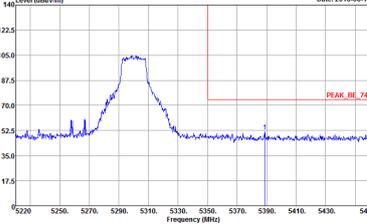
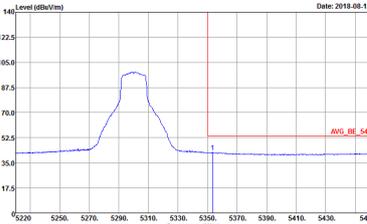


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : II</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : II</p>	<p>Left blank</p>

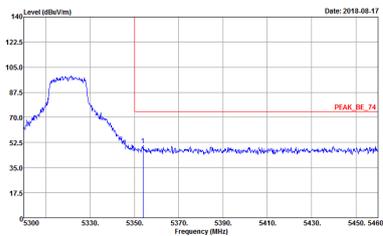
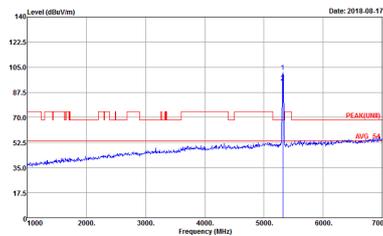
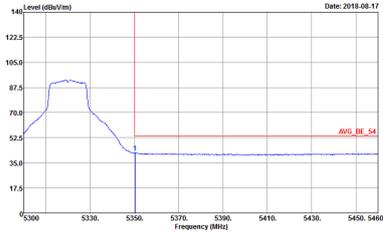


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>	<p>Site : 03CH13-HY            Condition : PEAKUNII 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>
Avg.	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:1000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : II</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : II</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : II</p>	<p>Left blank</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 12</p>	 <p>Site : 03CH13-HY            Condition : PEAKUNII 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 12</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 12</p>	<p><b>Left blank</b></p>



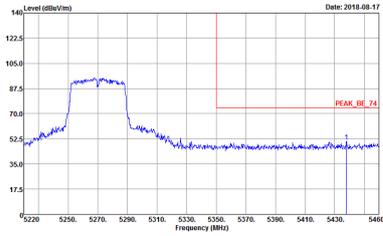
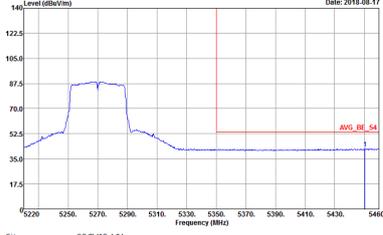
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 12</p>	<p>Site : 03CH13-HY            Condition : PEAK(LINII) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 12</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 12</p>	<b>Left blank</b>



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

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH13-HY          Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL          : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto          Detector : Peak          Project : 880207          Mode : 16</p>	<p>Site : 03CH13-HY          Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL          : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto          Detector : Peak          Project : 880207          Mode : 16</p>
<p><b>Avg.</b></p>	<p>Site : 03CH13-HY          Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL          : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto          Detector : Peak          Project : 880207          Mode : 16</p>	<p><b>Left blank</b></p>

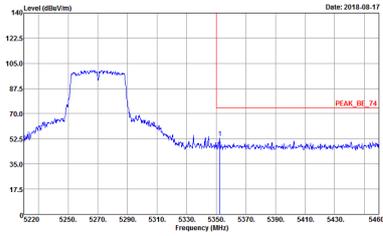
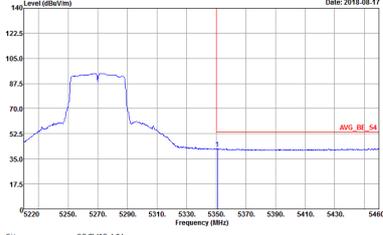


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2018-08-17</p> <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 16</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Date: 2018-08-17</p> <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 16</p>	<p>Left blank</p>

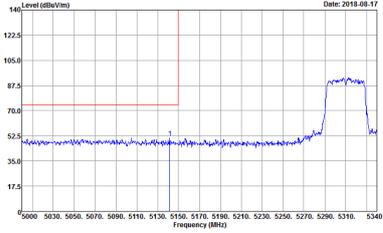
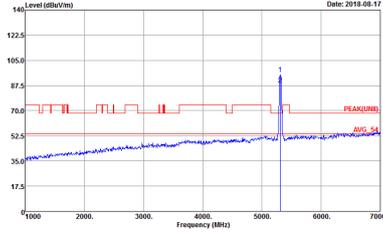
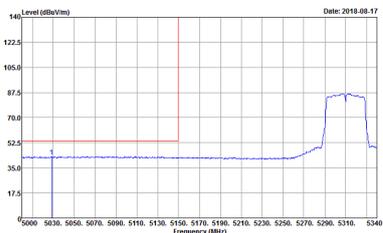


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
1	Vertical	Vertical
<p><b>Peak</b></p>	<p>Date: 2018-08-17</p> <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 16</p>	<p>Date: 2018-08-17</p> <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 16</p>
<p><b>Avg.</b></p>	<p>Date: 2018-08-17</p> <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            RBW:1000.000KHz VBW:3.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 16</p>	<p><b>Left blank</b></p>

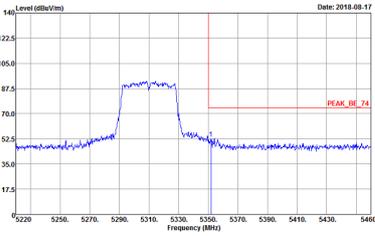
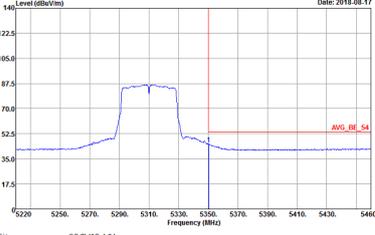


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
1	Vertical	Vertical
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 16</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 16</p>	<p>Left blank</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>
<b>Avg.</b>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<b>Left blank</b>

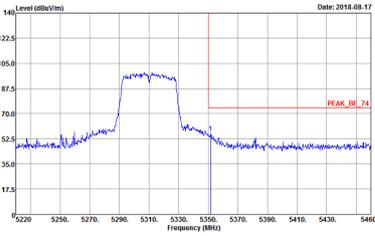
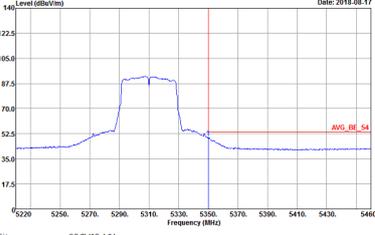


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p>Left blank</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>
<p><b>Avg.</b></p>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p><b>Left blank</b></p>



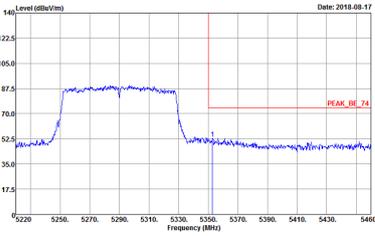
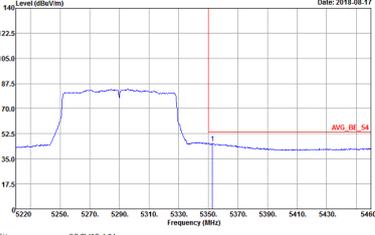
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 17            Power : 16</p>	<p>Left blank</p>



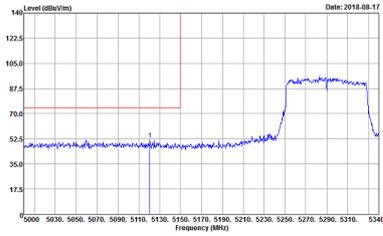
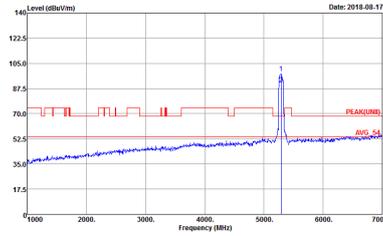
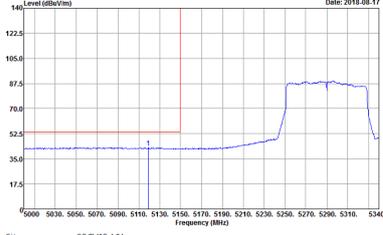
**Band 2 5250~5350MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 1B            Power : 15.5</p>	<p>Site : 03CH13-HY            Condition : PEAK(FUN) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 1B            Power : 15.5</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 1B            Power : 15.5</p>	<b>Left blank</b>

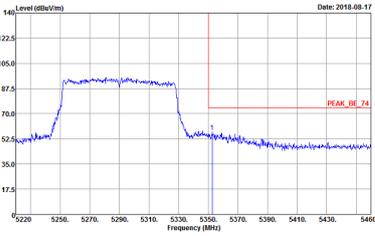
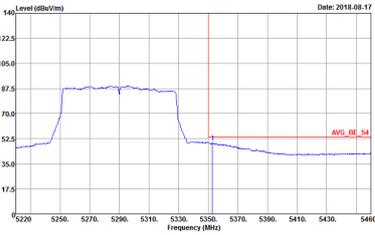


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	<p>Left blank</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	<p><b>Left blank</b></p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 18            Power : 15.5</p>	<p>Left blank</p>

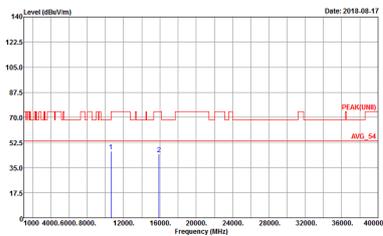
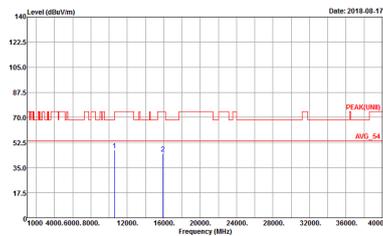


Band 2 - 5250~5350MHz

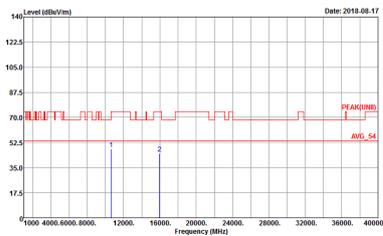
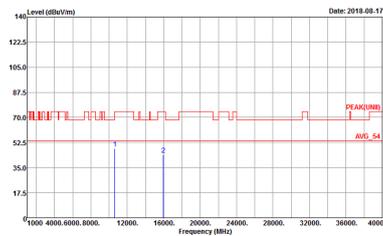
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	<p>Site : 03CH13-HY            Condition : PFAK(UMB) 3m SHF_HORN_576 HORIZONTAL            Detector : Peak            Project : 880207            Mode : 10</p>	<p>Site : 03CH13-HY            Condition : PFAK(UMB) 3m SHF_HORN_576 VERTICAL            Detector : Peak            Project : 880207            Mode : 10</p>



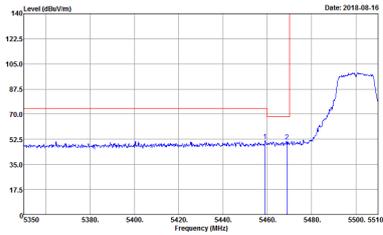
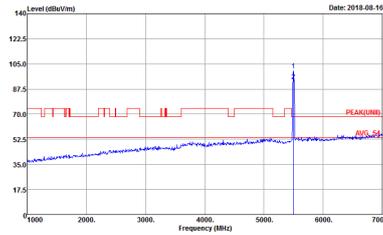
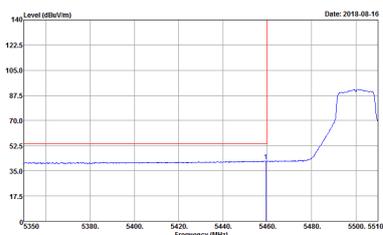
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 HORIZONTAL          Detector : Peak          Project : 880207          Mode : 11</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 VERTICAL          Detector : Peak          Project : 880207          Mode : 11</p>



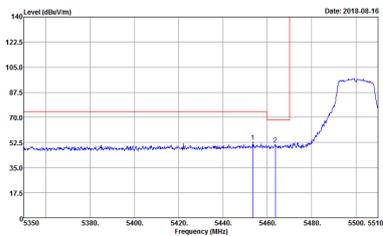
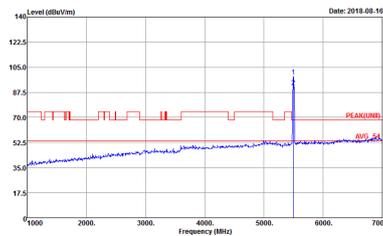
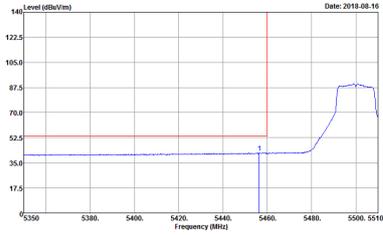
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINEI) 3m SHF_HORN_576 HORIZONTAL          Detector : Peak          Project : 880207          Mode : 12</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINEI) 3m SHF_HORN_576 VERTICAL          Detector : Peak          Project : 880207          Mode : 12</p>



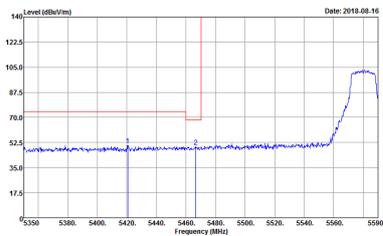
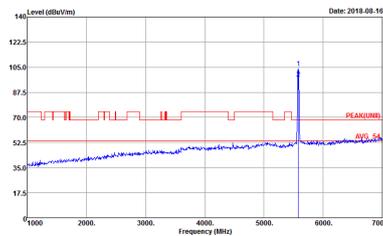
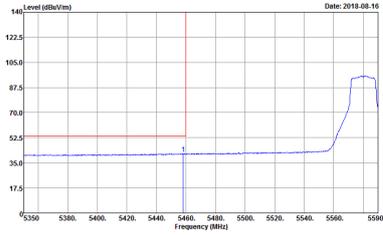
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 19</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 19</p>
<b>Avg.</b>	 <p>Site : 03CH13-HY            Condition : AV6_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:1000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 19</p>	<b>Left blank</b>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT), B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 19</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 19</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT), B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 19</p>	<p><b>Left blank</b></p>

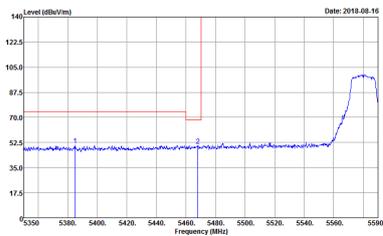
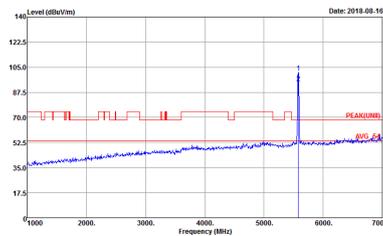
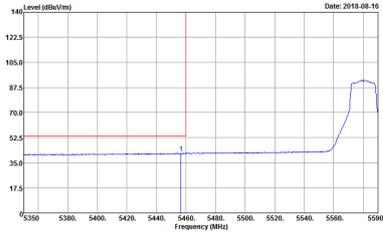


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH16 5580MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z0</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z0</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z0</p>	<p><b>Left blank</b></p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : D:\CH116-4\F Condition : PEAK_BE([UNIT]), B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z0</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH16 5580MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z0</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z0</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z0</p>	<p><b>Left blank</b></p>

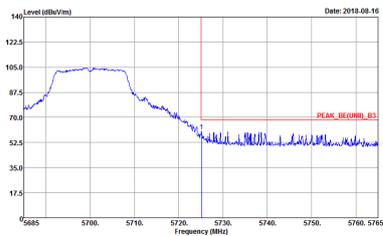
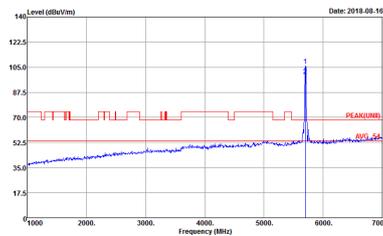


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : D:\CH116-4\F Condition : PEAK_BE[UMI], B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : Z0</p>	Left blank



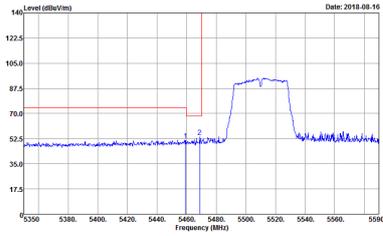
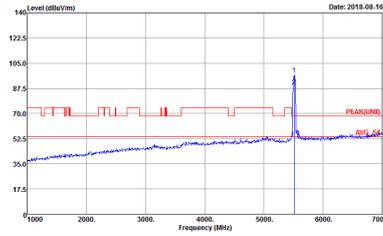
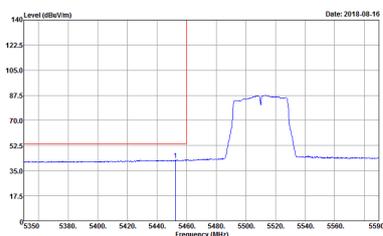
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH13-11Y Condition : PEAK_BE[UNII]_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z1</p>	<p>Site : 03CH13-11Y Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z1</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-11Y          Condition : PEAK_BE[UNII], B3 3m HORN_91200_1241 VERTICAL          Detector : Peak          Project : 880207          Mode : Z1</p>	 <p>Site : 03CH13-11Y          Condition : PEAK[UNII] 3m HORN_91200_1241 VERTICAL          Detector : Peak          Project : 880207          Mode : Z1</p>



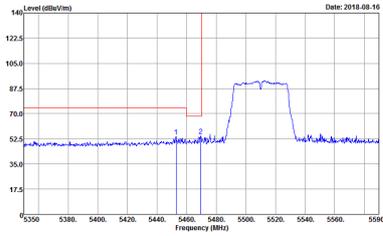
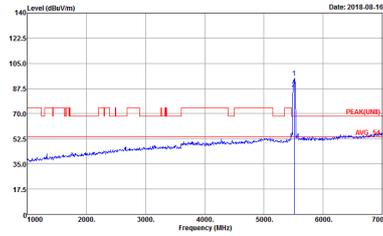
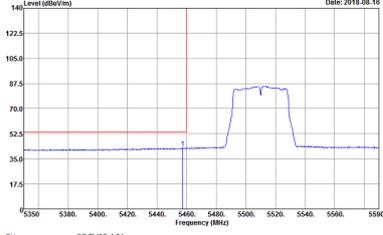
**Band 3 5470~5725MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
<p align="center"><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z5</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z5</p>
<p align="center"><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z5</p>	<p align="center"><b>Left blank</b></p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : 25</p>	Left blank

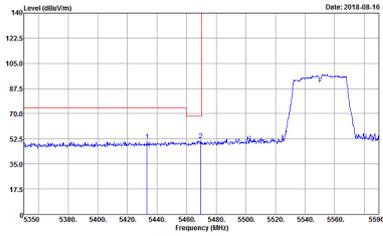
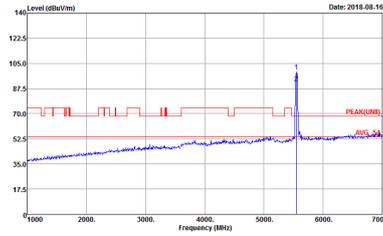
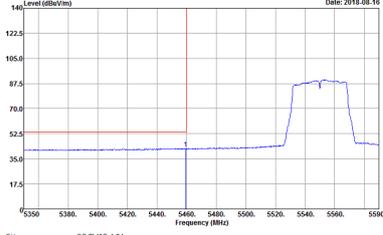


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 25</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 25</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 25</p>	<p><b>Left blank</b></p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : 25</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z6</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z6</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z6</p>	<p><b>Left blank</b></p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z6</p>	Left blank

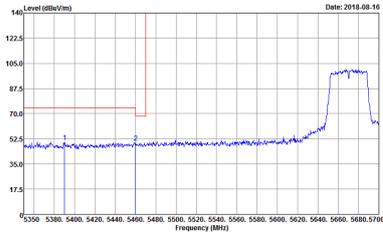
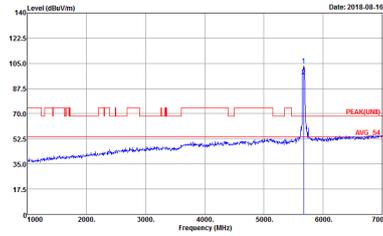
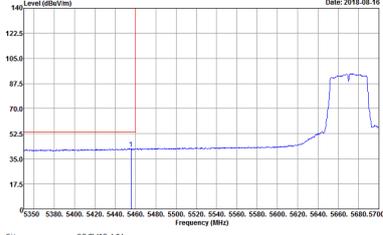


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z6</p>	<p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z6</p>
Avg.	<p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z6</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : Z6</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z7</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z7</p>
Avg.	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z7</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z7</p>	Left blank



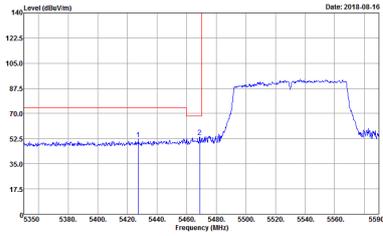
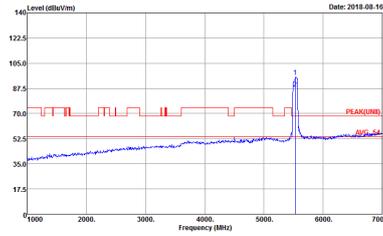
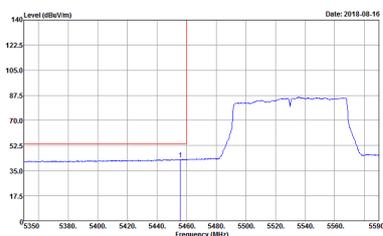
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
<b>Peak</b>	<p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z7</p>	<p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z7</p>
<b>Avg.</b>	<p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z7</p>	<b>Left blank</b>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : Z7</p>	Left blank



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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z8</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNIT) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z8</p>
<b>Avg.</b>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000kHz VBW:3.000kHz SWT:Auto            Detector : Peak            Project : 880207            Mode : Z8</p>	<b>Left blank</b>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z8</p>	Left blank

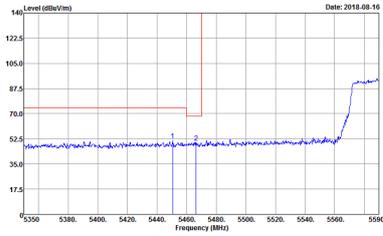
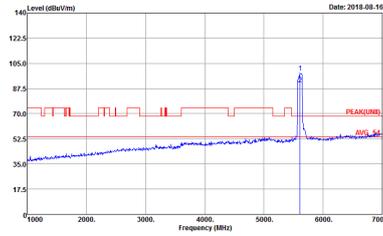
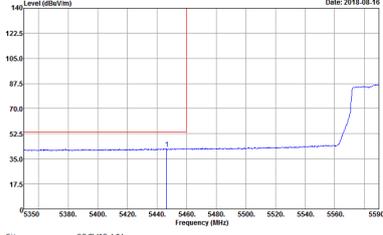


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY            Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 28</p>	<p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 28</p>
Avg.	<p>Site : 03CH13-HY            Condition : AVG_BE(UNII)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : 28</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : Z8</p>	Left blank

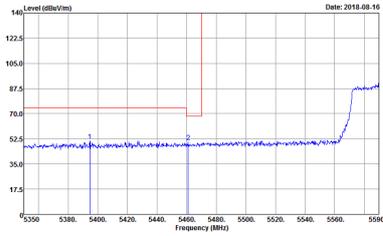
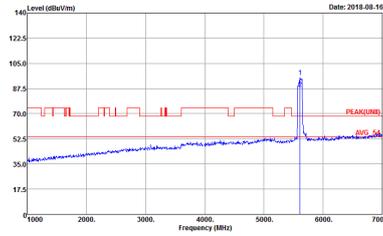
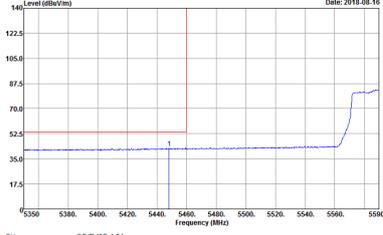


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z9</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z9</p>
Avg.	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNII)_B3 3m HORN_91200_1241 HORIZONTAL            Detector : Peak            Project : 880207            Mode : Z9</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 880207 Mode : Z9</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH13-HY            Condition : PEAK_BE(UNII)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z9</p>	 <p>Site : 03CH13-HY            Condition : PEAK(UNII) 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z9</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH13-HY            Condition : AVG_BE(UNII)_B3 3m HORN_91200_1241 VERTICAL            Detector : Peak            Project : 880207            Mode : Z9</p>	<p><b>Left blank</b></p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-4Y Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 880207 Mode : 29</p>	Left blank



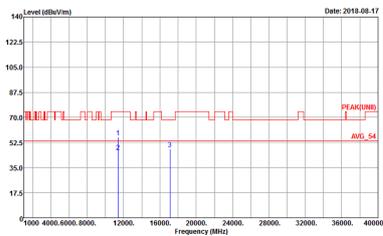
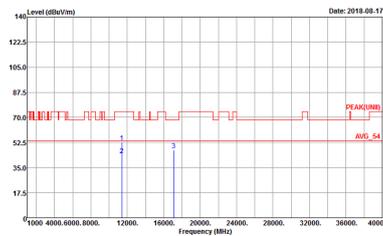
**Band 3 - 5470~5725MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
<b>Peak</b>  <b>Avg.</b>	<p>Site : 03CH13-HY  Condition : PFAK(LINE1) 3m SHF_HORN_576 HORIZONTAL  Detector : Peak  Project : 880207  Mode : 19</p>	<p>Site : 03CH13-HY  Condition : PFAK(LINE1) 3m SHF_HORN_576 VERTICAL  Detector : Peak  Project : 880207  Mode : 19</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CHE2-11Y Condition : PEAK(LINEI) 3m SHF_HORN_576 HORIZONTAL Detector : Peak Project : 880207 Mode : Z0</p>	<p>Site : 03CHE2-11Y Condition : PEAK(LINEI) 3m SHF_HORN_576 VERTICAL Detector : Peak Project : 880207 Mode : Z0</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
<p>Peak</p> <p>Avg.</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 HORIZONTAL          Detector : Peak          Project : 880207          Mode : Z1</p>	 <p>Site : 03CHE2-11Y          Condition : PEAK(LINE) 3m SHF_HORN_576 VERTICAL          Detector : Peak          Project : 880207          Mode : Z1</p>



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

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
<p><b>Peak</b></p> <p><b>Avg.</b></p>	<p>Site : 09CH13-HY            Condition : PEA(LINE) 3m HORN_91200_1241 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 30</p>	<p>Site : 09CH13-HY            Condition : PEA(LINE) 3m HORN_91200_1241 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 30</p>



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

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_31200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 880207 Mode : 32</p>	<p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_31200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 880207 Mode : 32</p>



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

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH13-HY            Condition : PEAK(LINE) 3m HORN_91200_1241 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 33</p>	<p>Site : 03CH13-HY            Condition : PEAK(LINE) 3m HORN_91200_1241 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 880207            Mode : 33</p>



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

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
<b>Peak</b>  <b>Avg.</b>	<p>Site : 03CH13-HY  Condition : PEAR(LINE1) 3m SHF_HORN_576 HORIZONTAL  Detector : Peak  Project : 880207  Mode : 30</p>	<p>Site : 03CH13-HY  Condition : PEAR(LINE1) 3m SHF_HORN_576 VERTICAL  Detector : Peak  Project : 880207  Mode : 30</p>



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

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH12-HY Condition : QP 3m B1E06_40103 HORIZONTAL Detector : Peak Project : 880207 Mode : 34</p>	<p>Site : 03CH12-HY Condition : QP 3m B1E06_40103 VERTICAL Detector : Peak Project : 880207 Mode : 34</p>

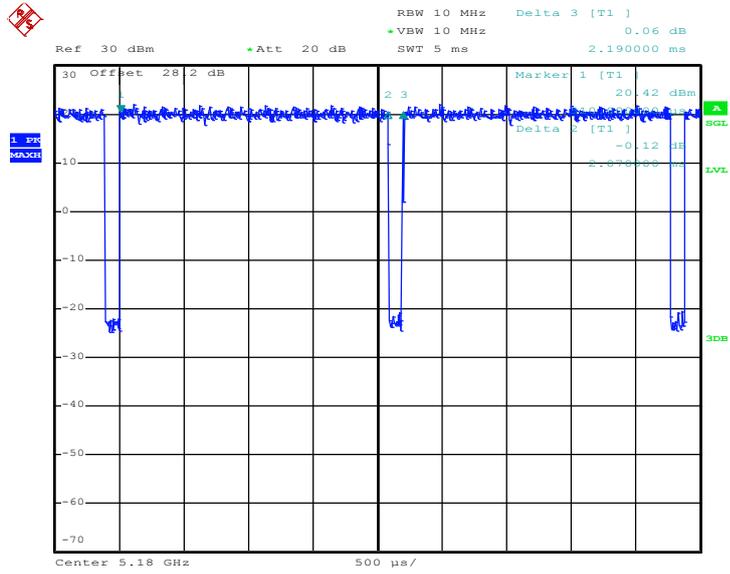


### Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	94.52	2070.00	0.48	1kHz	0.24
5GHz 802.11n HT20	94.15	1930.00	0.52	1kHz	0.26
5GHz 802.11n HT40	90.29	948.00	1.05	3kHz	0.44
5GHz 802.11ac VHT20	94.17	1940.00	0.52	1kHz	0.26
5GHz 802.11ac VHT40	90.29	948.00	1.05	3kHz	0.44
5GHz 802.11ac VHT80	81.12	464.00	2.16	3kHz	0.91

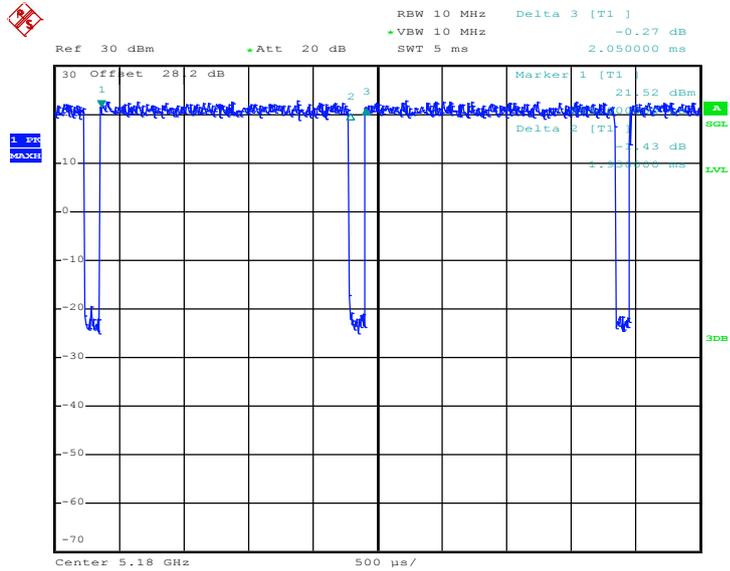


802.11a



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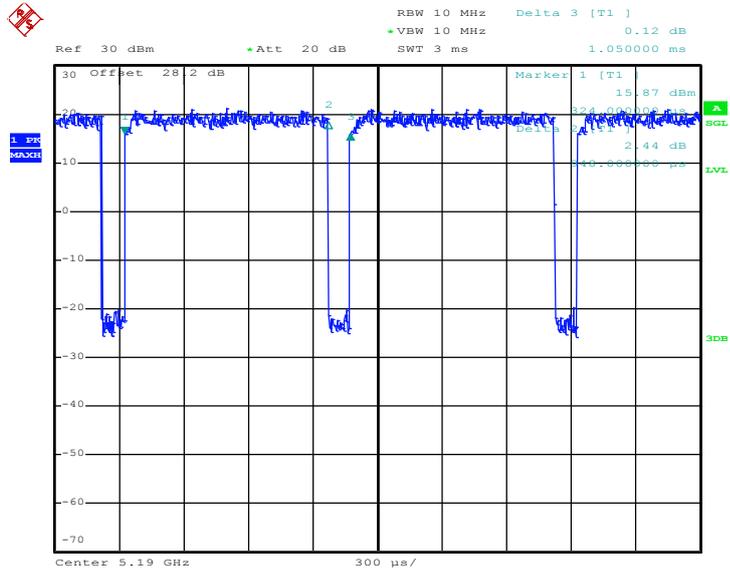
802.11n HT20



Date: 9.AUG.2018 11:50:32

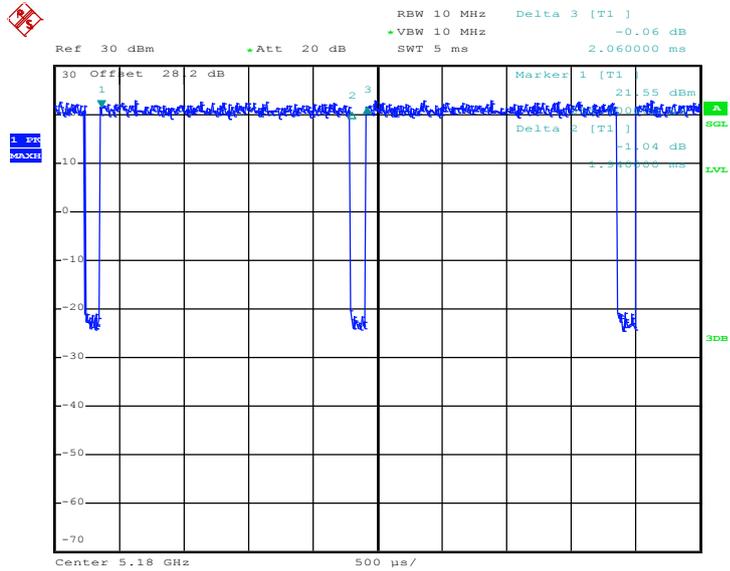


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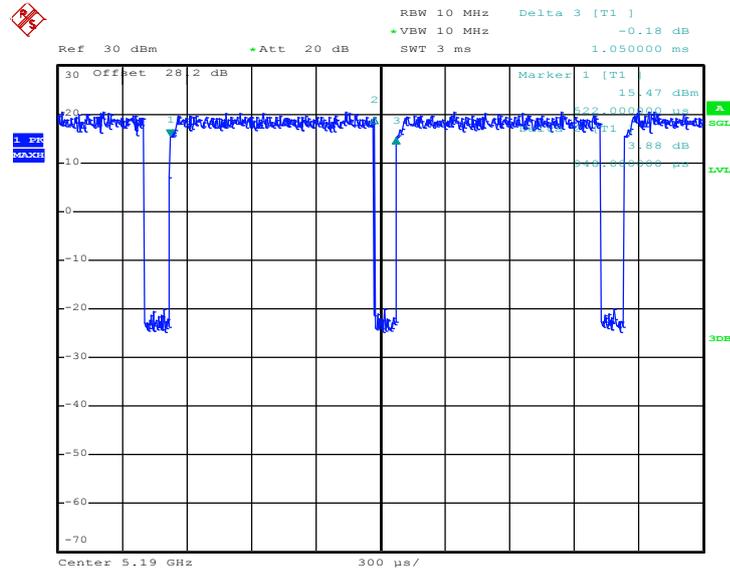
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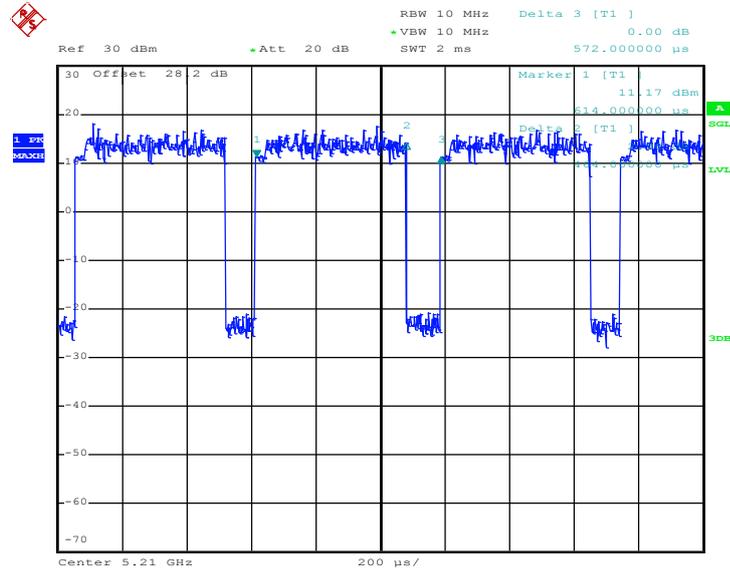


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Date: 9.AUG.2018 14:25:52

802.11ac VHT80



Date: 9.AUG.2018 14:41:45