



# FCC RADIO TEST REPORT

**FCC ID** : U8G-P1941  
**Equipment** : PEPWAVE / peplink Wireless Product  
**Brand Name** : PEPWAVE / peplink  
**Model name** : UBR LTE  
MAX UBR LTE  
MAX UBR  
MAX UBR LTEA  
UBR  
MAX BR2 Pro  
BR2 Pro  
MAX BR2 Pro LTE  
MAX BR2 Pro LTEA  
MAX-CX2-Mini  
MAX CX2 Mini  
CX2 Mini  
MAX-BR2-PRO-LTEA-W-T  
MAX-BR2-PRO-LTE-US-T  
Pismo941  
UBR-LTE  
UBR-LTE-US-T  
UBR-LTE-US-T-PRM  
UBR-LTEA-W-T  
UBR-LTEA-W-T-PRM  
MAX BR1 Pro  
MAX BR1 Pro LTE  
MAX BR1 Pro LTEA  
MAX-BR1-PRO-LTEA-W-T  
MAX-BR1-PRO-LTE-US-T  
**Applicant** : PISMO LABS TECHNOLOGY LIMITED  
A8, 5/F, HK Spinners Industrial Building, Phase 6,  
481 Castle Peak Road, Cheung Sha Wan, Hong Kong  
**Manufacturer** : PISMO LABS TECHNOLOGY LIMITED  
A8, 5/F, HK Spinners Industrial Building, Phase 6,  
481 Castle Peak Road, Cheung Sha Wan, Hong Kong  
**Standard** : FCC Part 15 Subpart E §15.407



The detailed of model name can be referred PISMO\_FCC\_model\_confirmation\_to\_Sporton\_UBR LTE List

The product was received on Nov. 01, 2019 and testing was started from Nov. 08, 2019 and completed on Mar. 12, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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.

*Louis Wu*

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Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issued Date
FR9N0104C	01	Initial issue of report	Mar. 18, 2020
FR9N0104C	02	Revise antenna type, model name, and table of contents	Mar. 26, 2020
FR9N0104C	03	Revise Brand Name and Model Name	Mar. 30, 2020



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 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 2.35 dB at 5648.400 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 15.20 dB at 0.355 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang****Report Producer: Dara Chiu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
<b>Integrated WWAN Module 1</b>	Brand Name: Sierra Model Name: MC7455 FCC ID: N7NMC7455
<b>Integrated WWAN Module 2</b>	Brand Name: Telit Model Name: LE910C4-NF FCC ID: RI7LE910CXNF
<b>Antenna Type</b>	WWAN: Omni-directional Antenna WLAN: Omni-directional Antenna GPS: Directional Antenna
<b>Serial Number</b>	Conducted: 2937-8EEB-A663 AC Conducted Emission: 2937-1BEC-3318 radiation spurious emission: 2937-8EEB-A663

## 1.2 Modification of EUT

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



### 1.3 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH05-HY	CO05-HY

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

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
<b>Test Site Location</b>	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	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	03CH16-HY	

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

FCC designation No.: TW1190 and TW0007

### 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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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 two types of antenna angle, horizontal and vertical. The worst cases (vertical) 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

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

### 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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Adapter + WAN Link + LAN Link
Remark: For AC Conducted Emission, the test voltage 120Vac was the worst case.	

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

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.



### 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



## 2.5 EUT Operation Test Setup

The RF test items, utility “Artgui Tool” was installed in Notebook which was programmed in order to 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 6dB and 26dB and 99% Occupied Bandwidth Measurement

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

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

26dB and 99% Occupied bandwidth are reporting only.

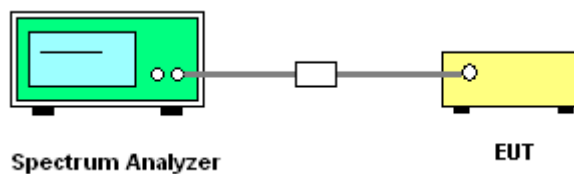
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

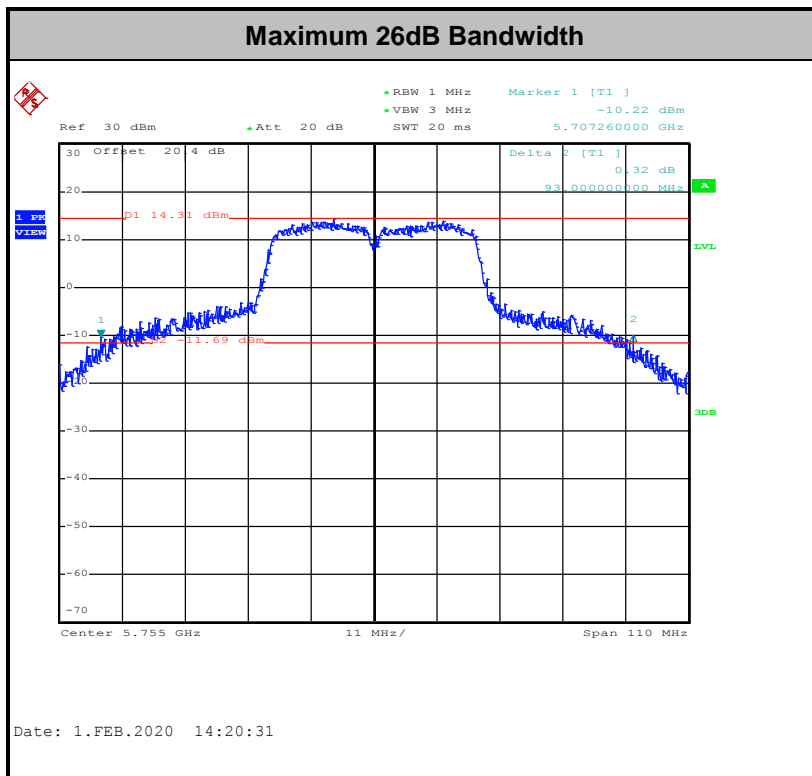
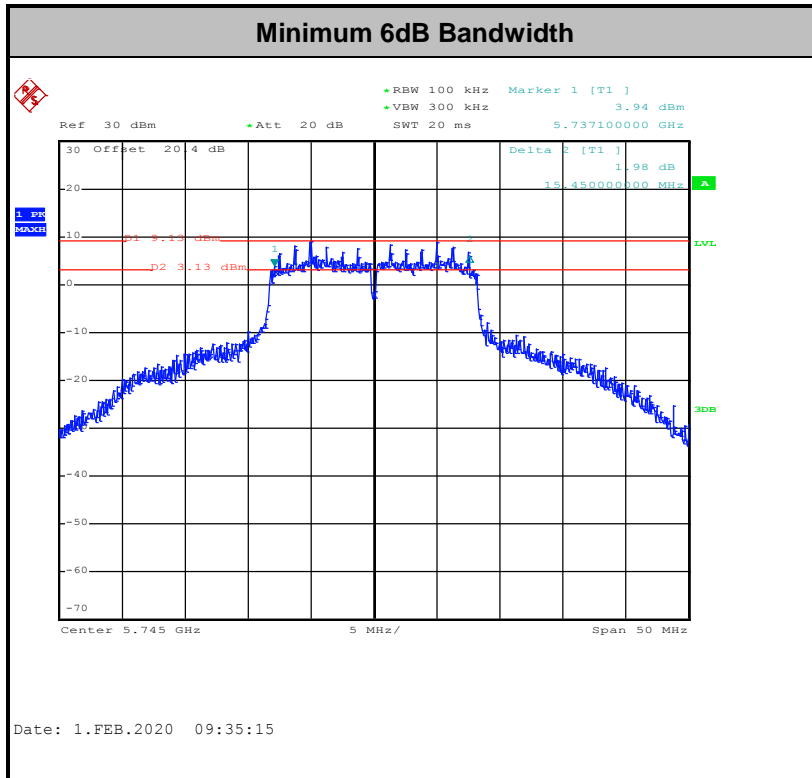
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

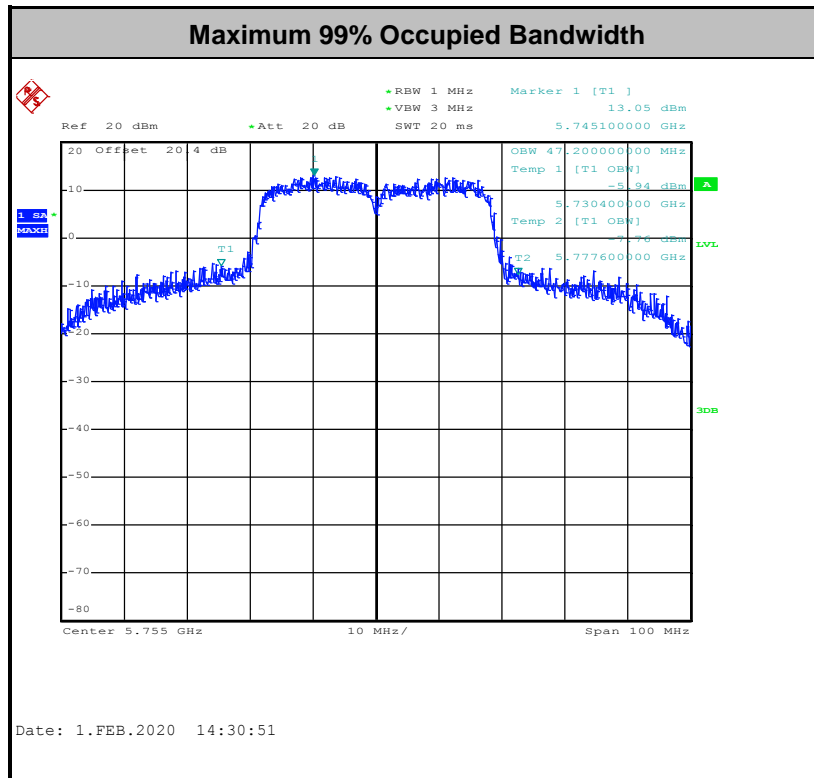
##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB and 26dB and 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

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

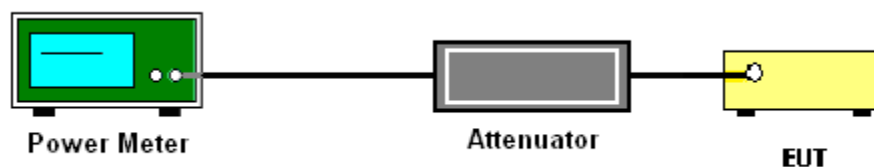
### 3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

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

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

#### 3.3.2 Measuring Instruments

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-3 #

(power averaging (rms) detection with max hold):

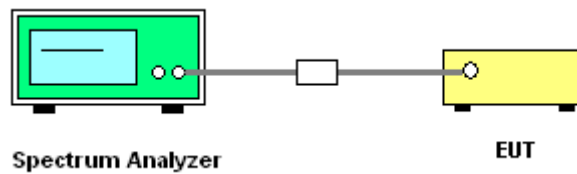
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 300 kHz.
  - Set VBW  $\geq$  1 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  - Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit.

### 3.3.4 Test Setup

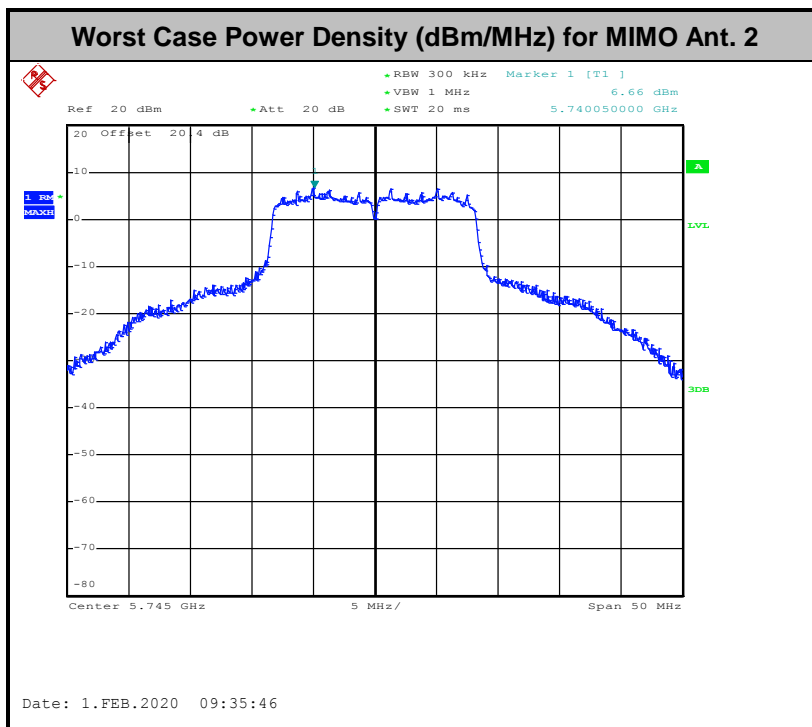
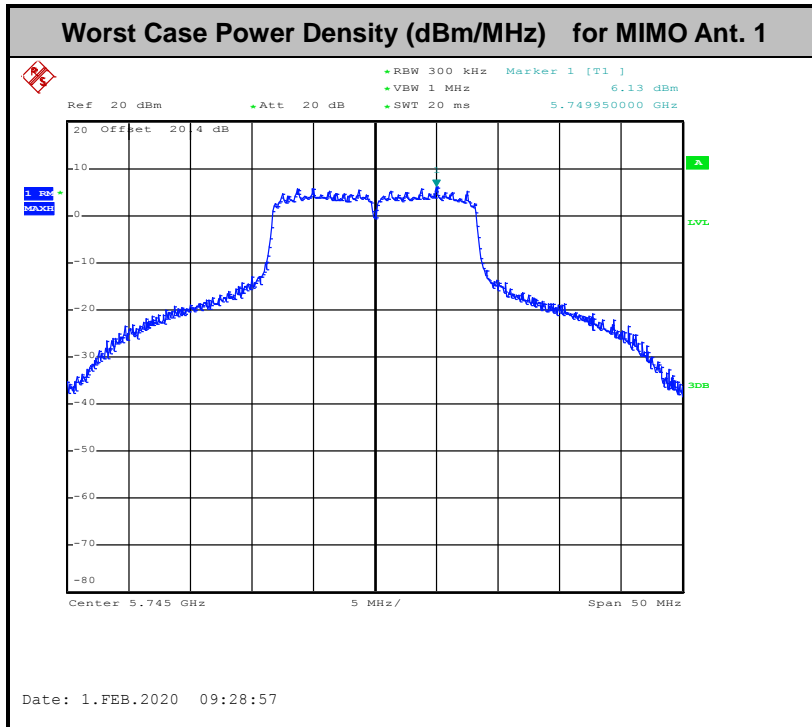






### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





### 3.4 Unwanted Emissions Measurement

This section 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 5.725-5.85 GHz band:  
 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands 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) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.
  - (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.



### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

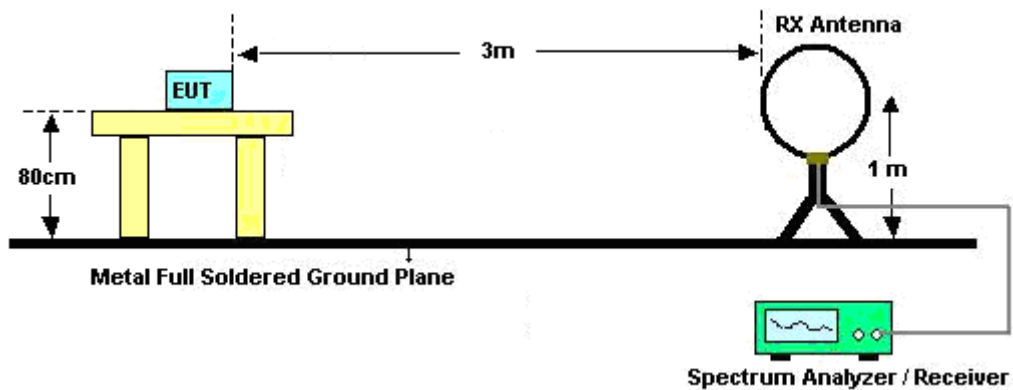
### 3.4.3 Test Procedures

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  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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.

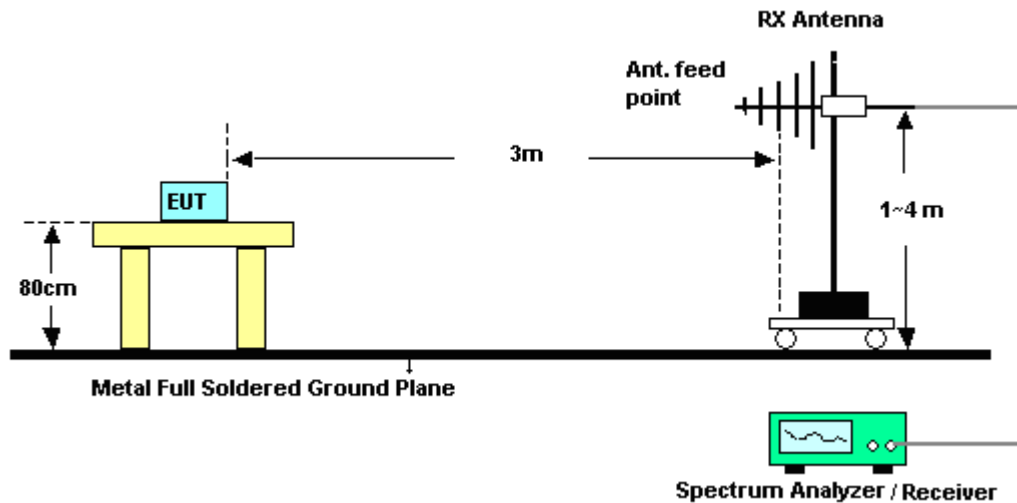
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

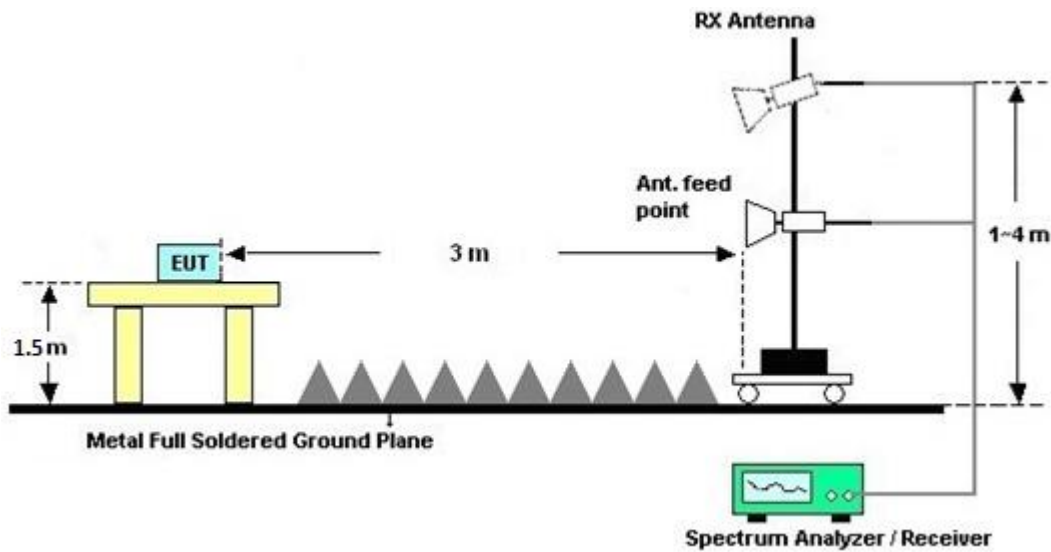
**For radiated emissions below 30MHz**



**For radiated emissions from 30MHz to 1GHz**



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line 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 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 Unwanted Radiated Emission (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 (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 3.5.2 Measuring Instruments

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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

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

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

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	4.73	4.73	4.73	7.74	0.00	1.74

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

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



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Feb. 01, 2020~ Mar. 12, 2020	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 32	9kHz~6GHz	Dec. 17, 2019	Feb. 01, 2020~ Mar. 12, 2020	Dec. 16, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSQ	200578/026	20Hz~26.5GHz	Jul. 10, 2019	Feb. 01, 2020~ Mar. 12, 2020	Jul. 09, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Feb. 01, 2020~ Mar. 12, 2020	Mar. 26, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP7	101131	9kHz~7GHz	Aug. 14, 2019	Feb. 01, 2020~ Mar. 12, 2020	Aug. 13, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 08, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Nov. 08, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Nov. 08, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 08, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Nov. 08, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Nov. 08, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Dec. 26, 2019	Jan. 18, 2020~ Jan. 25, 2020	Dec. 25, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00 802N1D01N-0 6	47020&06	30MHz to 1GHz	Oct. 13, 2019	Jan. 18, 2020~ Jan. 25, 2020	Oct. 12, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 19, 2019	Jan. 18, 2020~ Jan. 25, 2020	Sep. 18, 2020	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 01, 2019	Jan. 18, 2020~ Jan. 25, 2020	Sep. 30, 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	17100018000 54001	1GHz~18GHz	May 19, 2019	Jan. 18, 2020~ Jan. 25, 2020	May 18, 2020	Radiation (03CH16-HY)
Preamplifier	EMEC	EMC184045B	980192	18GHz ~40GHz	Jul. 10, 2019	Jan. 18, 2020~ Jan. 25, 2020	Jul. 09, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 11, 2019	Jan. 18, 2020~ Jan. 25, 2020	Dec. 10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY55420170	20MHz~8.4GHz	Mar. 08, 2019	Jan. 18, 2020~ Jan. 25, 2020	Mar. 07, 2020	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 29, 2019	Jan. 18, 2020~ Jan. 25, 2020	Apr. 28, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4P E	NA	Aug. 30, 2019	Jan. 18, 2020~ Jan. 25, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4P E	NA	Aug. 30, 2019	Jan. 18, 2020~ Jan. 25, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	NA	Aug. 30, 2019	Jan. 18, 2020~ Jan. 25, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jan. 18, 2020~ Jan. 25, 2020	N/A	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917057 6	18GHz- 40GHz	May 14, 2019	Jan. 18, 2020~ Jan. 25, 2020	May 13, 2020	Radiation (03CH16-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.0
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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% ( $U = 2Uc(y)$ )	6.7
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.9
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2020/2/01~2020/3/12	Relative Humidity:	51~54	%

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

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	19.20	-	43.50	-	16.30	-	0.5	Pass
11a	6Mbps	1	157	5785	18.00	-	42.10	-	16.30	-	0.5	Pass
11a	6Mbps	1	165	5825	17.65	-	41.90	-	16.30	-	0.5	Pass
HT20	MCS0	1	149	5745	20.55	-	47.04	-	16.65	-	0.5	Pass
HT20	MCS0	1	157	5785	19.10	-	46.50	-	16.40	-	0.5	Pass
HT20	MCS0	1	165	5825	18.90	-	45.20	-	16.90	-	0.5	Pass
HT40	MCS0	1	151	5755	40.50	-	92.98	-	35.91	-	0.5	Pass
HT40	MCS0	1	159	5795	38.50	-	88.11	-	35.73	-	0.5	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	17.60	21.50	41.20	44.60	16.00	15.45	0.5	Pass
11a	6Mbps	2	157	5785	17.25	18.30	42.30	43.15	16.30	15.65	0.5	Pass
11a	6Mbps	2	165	5825	17.05	17.60	37.75	40.50	16.25	16.00	0.5	Pass
HT20	MCS0	2	149	5745	18.50	21.20	45.25	47.94	17.25	16.85	0.5	Pass
HT20	MCS0	2	157	5785	18.20	19.00	42.50	46.54	16.85	16.70	0.5	Pass
HT20	MCS0	2	165	5825	18.05	18.50	42.30	44.80	16.20	16.85	0.5	Pass
HT40	MCS0	2	151	5755	38.00	47.20	87.67	93.00	35.73	35.28	0.5	Pass
HT40	MCS0	2	159	5795	37.50	40.60	82.76	90.24	35.37	35.64	0.5	Pass

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

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	20.00	19.90		30.00	30.00	4.73	4.73	Pass
11a	6Mbps	1	157	5785	19.90	19.80		30.00	30.00	4.73	4.73	Pass
11a	6Mbps	1	165	5825	19.50	19.40		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	149	5745	20.30	19.90		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	157	5785	20.10	19.70		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	165	5825	19.60	19.50		30.00	30.00	4.73	4.73	Pass
HT40	MCS0	1	151	5755	19.90	19.80		30.00	30.00	4.73	4.73	Pass
HT40	MCS0	1	159	5795	19.40	19.30		30.00	30.00	4.73	4.73	Pass

Power Setting	
Ant 1	Ant 2
23	22
22	21.5
21.5	20
23.5	22.5
23.5	22
22	22
29	22.5
22.5	21.5

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	18.90	19.60	22.27	30.00	30.00	4.73	4.73	Pass
11a	6Mbps	2	157	5785	18.50	19.20	21.87	30.00	30.00	4.73	4.73	Pass
11a	6Mbps	2	165	5825	18.10	18.60	21.37	30.00	30.00	4.73	4.73	Pass
HT20	MCS0	2	149	5745	18.80	19.60	22.23	30.00	30.00	4.73	4.73	Pass
HT20	MCS0	2	157	5785	18.40	19.40	21.94	30.00	30.00	4.73	4.73	Pass
HT20	MCS0	2	165	5825	18.00	18.80	21.43	30.00	30.00	4.73	4.73	Pass
HT40	MCS0	2	151	5755	19.10	19.60	22.37	30.00	30.00	4.73	4.73	Pass
HT40	MCS0	2	159	5795	18.30	18.90	21.62	30.00	30.00	4.73	4.73	Pass

Power Setting	
Ant 1	Ant 2
21.5	21.5
20	20
20	20
21	21
20.5	20.5
20	20
22	22
20.5	20.5

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

Band IV single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	-	8.74	-		30.00	30.00	4.73	4.73	Pass
11a	6Mbps	1	157	5785	2.22	-	8.74	-		30.00	30.00	4.73	4.73	Pass
11a	6Mbps	1	165	5825	2.22	-	8.68	-		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	149	5745	2.22	-	9.08	-		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	157	5785	2.22	-	9.29	-		30.00	30.00	4.73	4.73	Pass
HT20	MCS0	1	165	5825	2.22	-	8.32	-		30.00	30.00	4.73	4.73	Pass
HT40	MCS0	1	151	5755	2.22	-	5.34	-		30.00	30.00	4.73	4.73	Pass
HT40	MCS0	1	159	5795	2.22	-	5.54	-		30.00	30.00	4.73	4.73	Pass

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	2.22		8.35	8.88	11.89	28.26	28.26	7.74	7.74	Pass
11a	6Mbps	2	157	5785	2.22		7.79	8.67	11.68	28.26	28.26	7.74	7.74	Pass
11a	6Mbps	2	165	5825	2.22		7.42	7.67	10.68	28.26	28.26	7.74	7.74	Pass
HT20	MCS0	2	149	5745	2.22		7.39	8.57	11.58	28.26	28.26	7.74	7.74	Pass
HT20	MCS0	2	157	5785	2.22		7.87	8.28	11.29	28.26	28.26	7.74	7.74	Pass
HT20	MCS0	2	165	5825	2.22		7.07	7.87	10.88	28.26	28.26	7.74	7.74	Pass
HT40	MCS0	2	151	5755	2.22		4.38	4.92	7.93	28.26	28.26	7.74	7.74	Pass
HT40	MCS0	2	159	5795	2.22		4.35	5.13	8.14	28.26	28.26	7.74	7.74	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)



## Appendix B. AC Conducted Emission Test Results

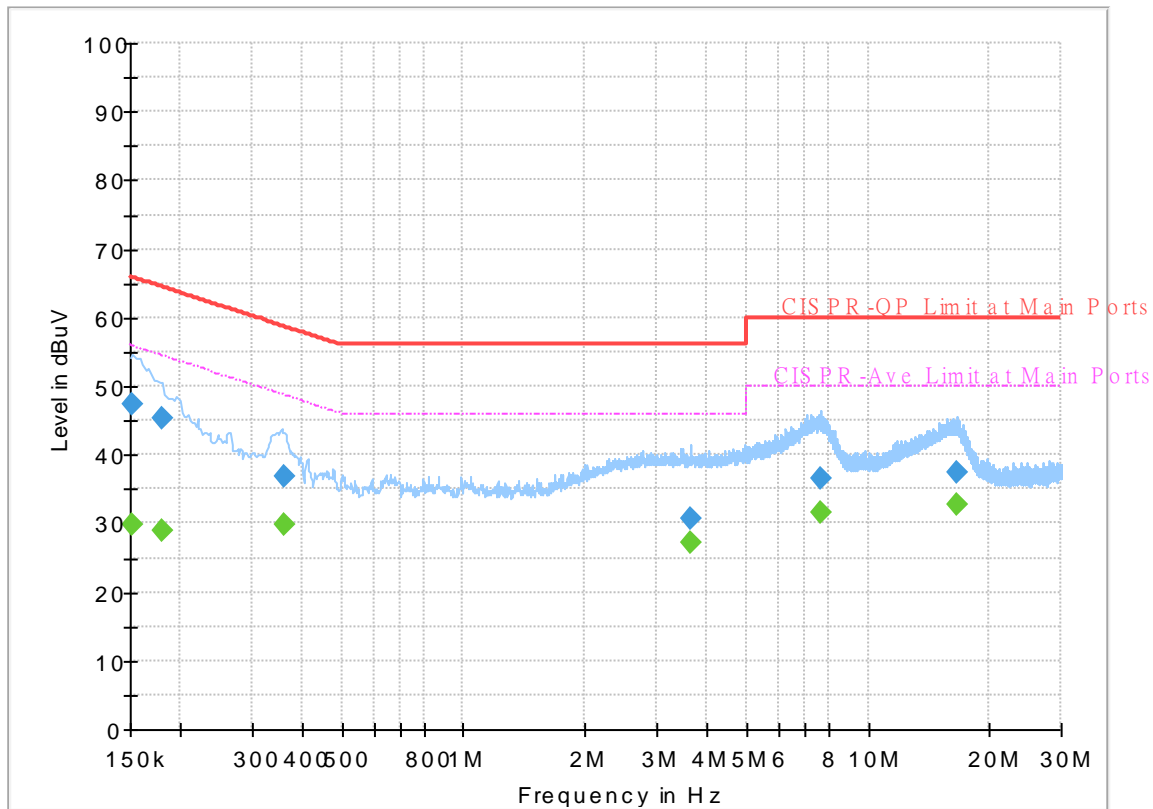
Test Engineer :	Tom Lee	Temperature :	24.2~25.6°C
		Relative Humidity :	48.5~52.3%



# EUT Information

Report NO : 9N0104  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



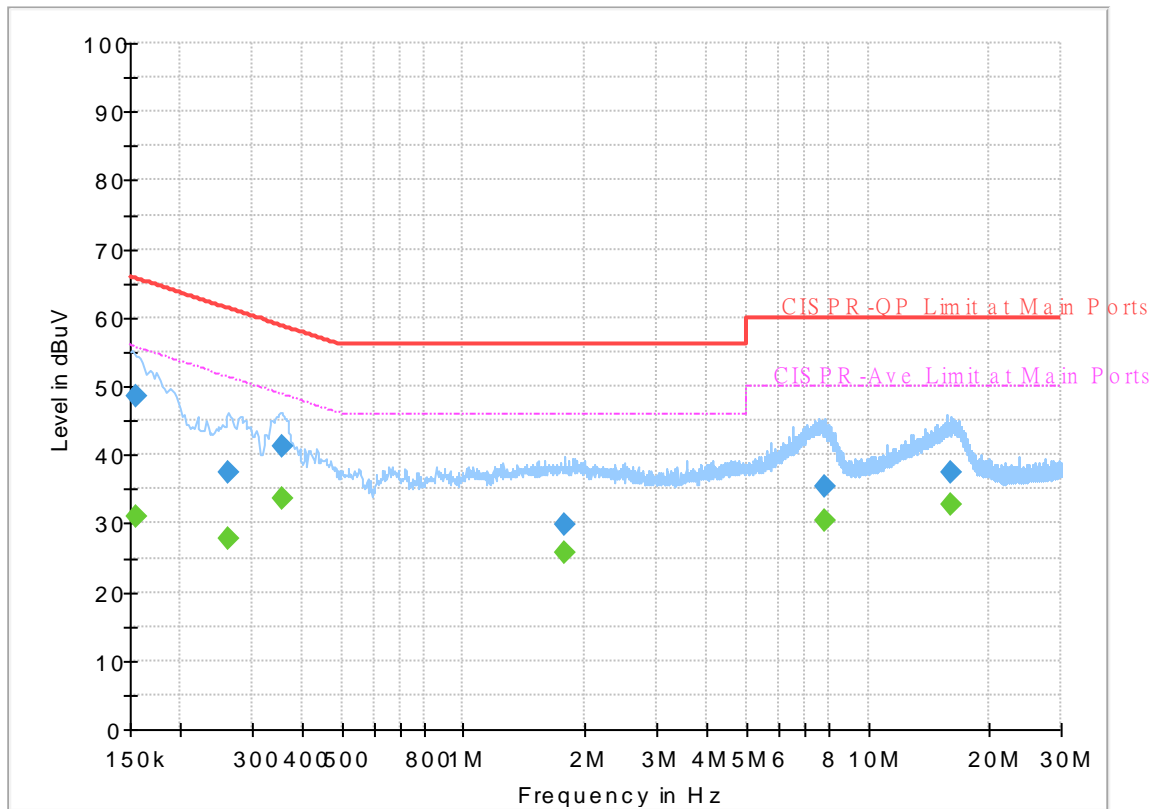
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.80	55.88	26.08	L1	OFF	19.4
0.152250	47.49	---	65.88	18.39	L1	OFF	19.4
0.179250	---	29.06	54.52	25.46	L1	OFF	19.4
0.179250	45.32	---	64.52	19.20	L1	OFF	19.4
0.361500	---	29.95	48.69	18.74	L1	OFF	19.4
0.361500	36.95	---	58.69	21.74	L1	OFF	19.4
3.660000	---	27.27	46.00	18.73	L1	OFF	19.6
3.660000	30.81	---	56.00	25.19	L1	OFF	19.6
7.626750	---	31.70	50.00	18.30	L1	OFF	19.7
7.626750	36.68	---	60.00	23.32	L1	OFF	19.7
16.599750	---	32.84	50.00	17.16	L1	OFF	20.0
16.599750	37.30	---	60.00	22.70	L1	OFF	20.0

## EUT Information

Report NO : 9N0104  
 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)
0.154500	---	31.10	55.75	24.65	N	OFF	19.5
0.154500	48.58	---	65.75	17.17	N	OFF	19.5
0.262500	---	27.80	51.35	23.55	N	OFF	19.5
0.262500	37.29	---	61.35	24.06	N	OFF	19.5
0.354750	---	33.65	48.85	15.20	N	OFF	19.5
0.354750	41.12	---	58.85	17.73	N	OFF	19.5
1.785750	---	25.82	46.00	20.18	N	OFF	19.6
1.785750	29.77	---	56.00	26.23	N	OFF	19.6
7.800000	---	30.42	50.00	19.58	N	OFF	19.8
7.800000	35.49	---	60.00	24.51	N	OFF	19.8
16.080000	---	32.79	50.00	17.21	N	OFF	20.1
16.080000	37.43	---	60.00	22.57	N	OFF	20.1



### Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung, CR Liro, and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

**Band 4 - 5725~5850MHz**

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

WIFI Ant.	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 149 5745MHz		5604.2	53.92	-14.28	68.2	38.3	31.7	12.97	29.05	296	40	P	H	
		5699.6	54.17	-50.74	104.91	38.28	31.8	13.12	29.03	296	40	P	H	
		5719.6	64.76	-45.93	110.69	48.76	31.88	13.15	29.03	296	40	P	H	
		5724.8	74.95	-46.79	121.74	58.92	31.9	13.16	29.03	296	40	P	H	
	*	5745	101.54	-	-	85.39	31.98	13.19	29.02	296	40	P	H	
	*	5745	93.15	-	-	77	31.98	13.19	29.02	296	40	A	H	
														H
														H
			5613.8	57.05	-11.15	68.2	41.42	31.7	12.98	29.05	195	354	P	V
			5697.8	65.11	-38.47	103.58	49.22	31.8	13.12	29.03	195	354	P	V
			5719.6	85.7	-24.99	110.69	69.7	31.88	13.15	29.03	195	354	P	V
			5725	90.85	-31.35	122.2	74.82	31.9	13.16	29.03	195	354	P	V
	*		5745	119.12	-	-	102.97	31.98	13.19	29.02	195	354	P	V
	*		5745	110.64	-	-	94.49	31.98	13.19	29.02	195	354	A	V
													V	
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5618.2	54.57	-13.63	68.2	38.93	31.7	12.99	29.05	205	26	P	H
		5689.4	54.62	-42.76	97.38	38.77	31.78	13.1	29.03	205	26	P	H
		5704.8	55.8	-50.75	106.55	39.88	31.82	13.13	29.03	205	26	P	H
		5724	53.76	-66.16	119.92	37.73	31.9	13.16	29.03	205	26	P	H
	*	5785	100.73	-	-	84.41	32.07	13.26	29.01	205	26	P	H
	*	5785	92.68	-	-	76.36	32.07	13.26	29.01	205	26	A	H
		5854.8	53.98	-57.28	111.26	37.55	32.11	13.31	28.99	205	26	P	H
		5874.8	55.23	-50.03	105.26	38.75	32.15	13.32	28.99	205	26	P	H
		5906.8	54.47	-27.16	81.63	37.88	32.23	13.34	28.98	205	26	P	H
		5928.6	55.5	-12.7	68.2	38.81	32.31	13.36	28.98	205	26	P	H
													H
													H
<b>802.11a</b>													
<b>CH 157</b>													
<b>5785MHz</b>		5634.4	58.49	-9.71	68.2	42.82	31.7	13.02	29.05	200	354	P	V
		5700	61.31	-43.89	105.2	45.42	31.8	13.12	29.03	200	354	P	V
		5700	61.31	-43.89	105.2	45.42	31.8	13.12	29.03	200	354	P	V
		5723.8	57.38	-62.08	119.46	41.35	31.9	13.16	29.03	200	354	P	V
	*	5785	118.5	-	-	102.18	32.07	13.26	29.01	200	354	P	V
	*	5785	110.13	-	-	93.81	32.07	13.26	29.01	200	354	A	V
		5850.4	54.68	-66.61	121.29	38.27	32.1	13.31	29	200	354	P	V
		5860	56.76	-52.64	109.4	40.31	32.12	13.32	28.99	200	354	P	V
		5899.8	56.16	-30.65	86.81	39.6	32.2	13.34	28.98	200	354	P	V
		5932.2	56.94	-11.26	68.2	40.23	32.33	13.36	28.98	200	354	P	V
													V
													V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz	*	5825	100.86	-	-	84.46	32.1	13.3	29	206	26	P	H	
	*	5825	92.19	-	-	75.79	32.1	13.3	29	206	26	A	H	
		5851.6	61.82	-56.73	118.55	45.41	32.1	13.31	29	206	26	P	H	
		5857.6	55.86	-54.21	110.07	39.42	32.12	13.31	28.99	206	26	P	H	
		5908.2	55.95	-24.65	80.6	39.36	32.23	13.34	28.98	206	26	P	H	
		5927.4	54.61	-13.59	68.2	37.92	32.31	13.36	28.98	206	26	P	H	
														H
														H
	*	5825	117.84	-	-	101.44	32.1	13.3	29	193	9	9	P	V
	*	5825	109.3	-	-	92.9	32.1	13.3	29	193	9	9	A	V
		5850.6	79.98	-40.85	120.83	63.57	32.1	13.31	29	193	9	9	P	V
		5855.2	71.62	-39.12	110.74	55.19	32.11	13.31	28.99	193	9	9	P	V
		5905.4	57.54	-25.13	82.67	40.96	32.22	13.34	28.98	193	9	9	P	V
		5929.8	56.97	-11.23	68.2	40.27	32.32	13.36	28.98	193	9	9	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 4 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	55.2	-18.8	74	55.19	40.1	20.66	60.75	300	40	P	H
		11490	44.19	-9.81	54	44.18	40.1	20.66	60.75	300	40	A	H
		17235	51.89	-16.31	68.2	41.49	40.84	26.48	56.92	100	0	P	H
													H
		11490	53.19	-20.81	74	53.18	40.1	20.66	60.75	100	95	P	V
		11490	43.39	-10.61	54	43.38	40.1	20.66	60.75	100	95	A	V
		17235	51.31	-16.89	68.2	40.91	40.84	26.48	56.92	100	0	P	V
802.11a CH 157 5785MHz		11570	52.05	-21.95	74	52.16	39.89	20.76	60.76	300	40	P	H
		11570	42.18	-11.82	54	42.29	39.89	20.76	60.76	300	40	A	H
		17355	52.14	-16.06	68.2	40.55	41.38	26.69	56.48	100	0	P	H
													H
		11570	55.14	-18.86	74	55.25	39.89	20.76	60.76	100	95	P	V
		11570	43.78	-10.22	54	43.89	39.89	20.76	60.76	100	95	A	V
		17355	51.78	-16.42	68.2	40.19	41.38	26.69	56.48	100	0	P	V
802.11a CH 165 5825MHz		11650	54.89	-19.11	74	55.19	39.6	20.85	60.75	308	121	P	H
		11650	42.99	-11.01	54	43.29	39.6	20.85	60.75	308	121	A	H
		17475	52.29	-15.91	68.2	39.48	41.97	26.89	56.05	100	0	P	H
													H
		11650	55.59	-18.41	74	55.89	39.6	20.85	60.75	100	68	P	V
		11650	44.72	-9.28	54	45.02	39.6	20.85	60.75	100	68	A	V
		17475	52.22	-15.98	68.2	39.41	41.97	26.89	56.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 149 5745MHz		5605.2	53.31	-14.89	68.2	37.69	31.7	12.97	29.05	301	20	P	H	
		5655.6	53.53	-18.83	72.36	37.81	31.71	13.05	29.04	301	20	P	H	
		5719	68.33	-42.19	110.52	52.33	31.88	13.15	29.03	301	20	P	H	
		5724.2	75.59	-44.79	120.38	59.56	31.9	13.16	29.03	301	20	P	H	
	*	5745	99.23	-	-	83.08	31.98	13.19	29.02	301	20	P	H	
	*	5745	91.62	-	-	75.47	31.98	13.19	29.02	301	20	A	H	
														H
														H
			5617.6	57.33	-10.87	68.2	41.69	31.7	12.99	29.05	195	322	P	V
			5695.2	69.27	-32.39	101.66	53.4	31.79	13.11	29.03	195	322	P	V
			5720	88.23	-22.57	110.8	72.23	31.88	13.15	29.03	195	322	P	V
			5724.6	94.18	-27.11	121.29	78.15	31.9	13.16	29.03	195	322	P	V
	*		5745	117.38	-	-	101.23	31.98	13.19	29.02	195	322	P	V
	*		5745	109.64	-	-	93.49	31.98	13.19	29.02	195	322	A	V
														V
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5649.4	53.59	-14.61	68.2	37.89	31.7	13.04	29.04	297	19	P	H
		5683.2	53.21	-39.59	92.8	37.39	31.77	13.09	29.04	297	19	P	H
		5705.4	52.82	-53.89	106.71	36.9	31.82	13.13	29.03	297	19	P	H
		5725	52.1	-70.1	122.2	36.07	31.9	13.16	29.03	297	19	P	H
	*	5785	100.08	-	-	83.76	32.07	13.26	29.01	297	19	P	H
	*	5785	92.92	-	-	76.6	32.07	13.26	29.01	297	19	A	H
		5851.6	53.81	-64.74	118.55	37.4	32.1	13.31	29	297	19	P	H
		5871.6	55.32	-50.83	106.15	38.85	32.14	13.32	28.99	297	19	P	H
		5909	55.46	-24.55	80.01	38.85	32.24	13.35	28.98	297	19	P	H
		5928.6	55.14	-13.06	68.2	38.45	32.31	13.36	28.98	297	19	P	H
													H
													H
<b>802.11n</b>													
<b>HT20</b>													
<b>CH 157</b>		5608.4	56.65	-11.55	68.2	41.03	31.7	12.97	29.05	175	354	P	V
<b>5785MHz</b>		5700	59.42	-45.78	105.2	43.53	31.8	13.12	29.03	175	354	P	V
		5700.2	59.56	-45.7	105.26	43.67	31.8	13.12	29.03	175	354	P	V
		5721.6	59.54	-54.91	114.45	43.53	31.89	13.15	29.03	175	354	P	V
	*	5785	116.53	-	-	100.21	32.07	13.26	29.01	175	354	P	V
	*	5785	108.66	-	-	92.34	32.07	13.26	29.01	175	354	A	V
		5852	55.38	-62.26	117.64	38.97	32.1	13.31	29	175	354	P	V
		5857	58.41	-51.83	110.24	41.98	32.11	13.31	28.99	175	354	P	V
		5879.2	56.53	-45.55	102.08	40.03	32.16	13.33	28.99	175	354	P	V
		5931	56.38	-11.82	68.2	39.68	32.32	13.36	28.98	175	354	P	V
													V
													V





WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 165 5825MHz	*	5825	100.2	-	-	83.8	32.1	13.3	29	279	18	P	H	
	*	5825	92.36	-	-	75.96	32.1	13.3	29	279	18	A	H	
		5850	61.88	-60.32	122.2	45.47	32.1	13.31	29	279	18	P	H	
		5857.4	58.19	-51.94	110.13	41.76	32.11	13.31	28.99	279	18	P	H	
		5902	55.08	-30.1	85.18	38.51	32.21	13.34	28.98	279	18	P	H	
		5933.2	55.12	-13.08	68.2	38.41	32.33	13.36	28.98	279	18	P	H	
														H
														H
	*	5825	115.49	-	-	99.09	32.1	13.3	29	163	355	P	V	
	*	5825	108.06	-	-	91.66	32.1	13.3	29	163	355	A	V	
		5853.2	78.95	-35.95	114.9	62.53	32.11	13.31	29	163	355	P	V	
		5855.8	72.49	-38.09	110.58	56.06	32.11	13.31	28.99	163	355	P	V	
		5877.2	58.88	-44.69	103.57	42.39	32.15	13.33	28.99	163	355	P	V	
		5947.2	55.16	-13.04	68.2	38.37	32.39	13.37	28.97	163	355	P	V	
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20 CH 149 5745MHz		11490	55.65	-18.35	74	55.64	40.1	20.66	60.75	300	42	P	H
		11490	44.17	-9.83	54	44.16	40.1	20.66	60.75	300	42	A	H
		17235	51.53	-16.67	68.2	41.13	40.84	26.48	56.92	100	0	P	H
													H
		11490	55.77	-18.23	74	55.76	40.1	20.66	60.75	100	95	P	V
		11490	45.19	-8.81	54	45.18	40.1	20.66	60.75	100	95	A	V
		17235	51.13	-17.07	68.2	40.73	40.84	26.48	56.92	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	52.72	-21.28	74	52.83	39.89	20.76	60.76	302	40	P	H
		11570	41.32	-12.68	54	41.43	39.89	20.76	60.76	302	40	A	H
		17355	51.17	-17.03	68.2	39.58	41.38	26.69	56.48	100	0	P	H
													H
		11570	56.44	-17.56	74	56.55	39.89	20.76	60.76	100	72	P	V
		11570	44.71	-9.29	54	44.82	39.89	20.76	60.76	100	72	A	V
		17355	51.26	-16.94	68.2	39.67	41.38	26.69	56.48	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	52.31	-21.69	74	52.61	39.6	20.85	60.75	318	31	P	H
		11650	41.23	-12.77	54	41.53	39.6	20.85	60.75	318	31	A	H
		17475	52.06	-16.14	68.2	39.25	41.97	26.89	56.05	100	0	P	H
													H
		11650	56.46	-17.54	74	56.76	39.6	20.85	60.75	105	43	P	V
		11650	45.12	-8.88	54	45.42	39.6	20.85	60.75	105	43	A	V
		17475	52.03	-16.17	68.2	39.22	41.97	26.89	56.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5613	52.96	-15.24	68.2	37.33	31.7	12.98	29.05	287	17	P	H
		5695.4	62.78	-39.03	101.81	46.91	31.79	13.11	29.03	287	17	P	H
		5719.4	76.14	-34.49	110.63	60.14	31.88	13.15	29.03	287	17	P	H
		5723.6	76.23	-42.78	119.01	60.21	31.89	13.16	29.03	287	17	P	H
	*	5755	97.22	-	-	81.02	32.01	13.21	29.02	287	17	P	H
	*	5755	89.22	-	-	73.02	32.01	13.21	29.02	287	17	A	H
		5851	53.12	-66.8	119.92	36.71	32.1	13.31	29	287	17	P	H
		5866.6	54.19	-53.36	107.55	37.73	32.13	13.32	28.99	287	17	P	H
		5875.4	53.98	-50.92	104.9	37.49	32.15	13.33	28.99	287	17	P	H
		5949.2	53.73	-14.47	68.2	36.93	32.4	13.37	28.97	287	17	P	H
													H
													H
<b>802.11n HT40 CH 151 5755MHz</b>		5648.4	65.85	-2.35	68.2	50.15	31.7	13.04	29.04	187	15	P	V
		5693	82.81	-17.23	100.04	66.94	31.79	13.11	29.03	187	15	P	V
		5717.2	93.08	-16.94	110.02	77.09	31.87	13.15	29.03	187	15	P	V
		5721.4	93.44	-20.55	113.99	77.43	31.89	13.15	29.03	187	15	P	V
	*	5755	114.21	-	-	98.01	32.01	13.21	29.02	187	15	P	V
	*	5755	106.36	-	-	90.16	32.01	13.21	29.02	187	15	A	V
		5850.8	67.04	-53.34	120.38	50.63	32.1	13.31	29	187	15	P	V
		5862.2	67.01	-41.77	108.78	50.56	32.12	13.32	28.99	187	15	P	V
		5876.8	62.63	-41.23	103.86	46.14	32.15	13.33	28.99	187	15	P	V
		5929.8	55.22	-12.98	68.2	38.52	32.32	13.36	28.98	187	15	P	V
													V
													V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5622.2	53.62	-14.58	68.2	37.97	31.7	13	29.05	299	19	P	H
		5690.6	53.32	-44.95	98.27	37.47	31.78	13.1	29.03	299	19	P	H
		5719.4	55.12	-55.51	110.63	39.12	31.88	13.15	29.03	299	19	P	H
		5722.4	58.27	-58	116.27	42.25	31.89	13.16	29.03	299	19	P	H
	*	5795	97.21	-	-	80.86	32.09	13.27	29.01	299	19	P	H
	*	5795	89.66	-	-	73.31	32.09	13.27	29.01	299	19	A	H
		5852.8	58.66	-57.16	115.82	42.24	32.11	13.31	29	299	19	P	H
		5855.4	58.46	-52.23	110.69	42.03	32.11	13.31	28.99	299	19	P	H
		5885	58.28	-39.49	97.77	41.77	32.17	13.33	28.99	299	19	P	H
		5932.6	54.95	-13.25	68.2	38.24	32.33	13.36	28.98	299	19	P	H
802.11n													H
HT40													H
CH 159		5644.6	57.46	-10.74	68.2	41.78	31.7	13.03	29.05	183	14	P	V
5795MHz		5696.2	68.3	-34.1	102.4	52.43	31.79	13.11	29.03	183	14	P	V
		5715.2	73.24	-36.22	109.46	57.27	31.86	13.14	29.03	183	14	P	V
		5722.4	77.44	-38.83	116.27	61.42	31.89	13.16	29.03	183	14	P	V
	*	5795	113.96	-	-	97.61	32.09	13.27	29.01	183	14	P	V
	*	5795	106.08	-	-	89.73	32.09	13.27	29.01	183	14	A	V
		5851.8	78.14	-39.96	118.1	61.73	32.1	13.31	29	183	14	P	V
		5856	77.39	-33.13	110.52	60.96	32.11	13.31	28.99	183	14	P	V
		5875.4	70.76	-34.14	104.9	54.27	32.15	13.33	28.99	183	14	P	V
		5937.4	56.06	-12.14	68.2	39.33	32.35	13.36	28.98	183	14	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT40 CH 151 5755MHz		11510	52.07	-21.93	74	52.06	40.07	20.7	60.76	301	40	P	H
		11510	40.54	-13.46	54	40.53	40.07	20.7	60.76	301	40	A	H
		17265	50.27	-17.93	68.2	39.59	40.96	26.53	56.81	100	0	P	H
													H
		11510	53.24	-20.76	74	53.23	40.07	20.7	60.76	100	95	P	V
		11510	42.19	-11.81	54	42.18	40.07	20.7	60.76	100	95	A	V
		17265	50.78	-17.42	68.2	40.1	40.96	26.53	56.81	100	0	P	V
													V
802.11n HT40 CH 159 5795MHz		11590	47.67	-26.33	74	47.82	39.83	20.78	60.76	100	0	P	H
		17385	52.34	-15.86	68.2	40.46	41.52	26.74	56.38	100	0	P	H
													H
													H
		11590	53.81	-20.19	74	53.96	39.83	20.78	60.76	100	43	P	V
		11590	42.61	-11.39	54	42.76	39.83	20.78	60.76	100	43	A	V
		17385	52.03	-16.17	68.2	40.15	41.52	26.74	56.38	100	0	P	V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT40 (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)	
5GHz 802.11n HT40 LF		145.43	32.01	-11.49	43.5	45.01	17.16	2.12	32.28	-	-	P	H	
		250.19	33.75	-12.25	46	44.74	18.58	2.77	32.34	-	-	P	H	
		375.32	38.32	-7.68	46	46.31	20.94	3.31	32.24	-	-	P	H	
		500.45	34.67	-11.33	46	39.09	23.92	3.75	32.09	-	-	P	H	
		892.33	39.62	-6.38	46	37.47	28.97	5.13	31.95	-	-	P	H	
		914.64	39.79	-6.21	46	37.02	29.33	5.19	31.75	100	0	P	H	
														H
														H
														H
														H
														H
														H
			58.13	33.09	-6.91	40	52.39	11.79	1.31	32.4	-	-	P	V
			375.32	31.57	-14.43	46	39.56	20.94	3.31	32.24	-	-	P	V
			450.01	36.35	-9.65	46	41.77	23.11	3.61	32.14	-	-	P	V
			500.45	35.28	-10.72	46	39.7	23.92	3.75	32.09	-	-	P	V
			885.54	39.55	-6.45	46	37.38	29.04	5.12	31.99	-	-	P	V
			900.09	39.6	-6.4	46	37.38	28.99	5.15	31.92	100	0	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
802.11a CH 149 5745MHz		5642.4	52.93	-15.27	68.2	37.25	31.7	13.03	29.05	203	28	P	H	
		5664	53.33	-25.26	78.59	37.58	31.73	13.06	29.04	203	28	P	H	
		5720	58.24	-52.56	110.8	42.24	31.88	13.15	29.03	203	28	P	H	
		5725	69.12	-53.08	122.2	53.09	31.9	13.16	29.03	203	28	P	H	
	*	5745	101.35	-	-	85.2	31.98	13.19	29.02	203	28	P	H	
	*	5745	93.91	-	-	77.76	31.98	13.19	29.02	203	28	A	H	
														H
														H
			5625.4	57.44	-10.76	68.2	41.79	31.7	13	29.05	160	12	P	V
			5671	61.72	-22.06	83.78	45.95	31.74	13.07	29.04	160	12	P	V
			5719.8	77.46	-33.28	110.74	61.46	31.88	13.15	29.03	160	12	P	V
			5724.6	87.12	-34.17	121.29	71.09	31.9	13.16	29.03	160	12	P	V
	*		5745	119.74	-	-	103.59	31.98	13.19	29.02	160	12	P	V
	*		5745	112.68	-	-	96.53	31.98	13.19	29.02	160	12	A	V
														V
														V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 157 5785MHz		5633.8	52.63	-15.57	68.2	36.97	31.7	13.01	29.05	203	27	P	H	
		5651.4	52.35	-16.89	69.24	36.65	31.7	13.04	29.04	203	27	P	H	
		5709.4	53.57	-54.26	107.83	37.62	31.84	13.14	29.03	203	27	P	H	
		5720.4	52.1	-59.61	111.71	36.1	31.88	13.15	29.03	203	27	P	H	
	*	5785	100.94	-	-	84.62	32.07	13.26	29.01	203	27	P	H	
	*	5785	93.84	-	-	77.52	32.07	13.26	29.01	203	27	A	H	
		5850.2	53.38	-68.36	121.74	36.97	32.1	13.31	29	203	27	P	H	
		5873.8	53.57	-51.97	105.54	37.09	32.15	13.32	28.99	203	27	P	H	
		5915.8	54.27	-20.71	74.98	37.64	32.26	13.35	28.98	203	27	P	H	
		5946.4	53.43	-14.77	68.2	36.64	32.39	13.37	28.97	203	27	P	H	
														H
														H
			5631.4	58.04	-10.16	68.2	42.38	31.7	13.01	29.05	164	12	P	V
			5699.4	61.15	-43.61	104.76	45.26	31.8	13.12	29.03	164	12	P	V
			5706.2	62.05	-44.89	106.94	46.13	31.82	13.13	29.03	164	12	P	V
			5720.6	57.24	-54.93	112.17	41.24	31.88	13.15	29.03	164	12	P	V
	*		5785	119.36	-	-	103.04	32.07	13.26	29.01	164	12	P	V
	*		5785	112.2	-	-	95.88	32.07	13.26	29.01	164	12	A	V
			5850	56.54	-65.66	122.2	40.13	32.1	13.31	29	164	12	P	V
			5861.6	56.72	-52.23	108.95	40.27	32.12	13.32	28.99	164	12	P	V
		5908.4	56.04	-24.41	80.45	39.44	32.23	13.35	28.98	164	12	P	V	
		5931.2	54.39	-13.81	68.2	37.69	32.32	13.36	28.98	164	12	P	V	
													V	
													V	





WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
<b>802.11a CH 165 5825MHz</b>	*	5825	100.17	-	-	83.77	32.1	13.3	29	197	27	P	H	
	*	5825	93	-	-	76.6	32.1	13.3	29	197	27	A	H	
		5854.6	52.72	-58.99	111.71	36.29	32.11	13.31	28.99	197	27	P	H	
		5867	53.52	-53.92	107.44	37.06	32.13	13.32	28.99	197	27	P	H	
		5900.4	53.7	-32.66	86.36	37.14	32.2	13.34	28.98	197	27	P	H	
		5947.4	53.74	-14.46	68.2	36.95	32.39	13.37	28.97	197	27	P	H	
														H
														H
	*	5825	119.15	-	-	102.75	32.1	13.3	29	168	13	P	V	
	*	5825	111.51	-	-	95.11	32.1	13.3	29	168	13	A	V	
		5850.4	68.15	-53.14	121.29	51.74	32.1	13.31	29	168	13	P	V	
		5856.4	67.3	-43.11	110.41	50.87	32.11	13.31	28.99	168	13	P	V	
		5880.2	57.69	-43.65	101.34	41.19	32.16	13.33	28.99	168	13	P	V	
		5933.8	54.2	-14	68.2	37.48	32.34	13.36	28.98	168	13	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 4 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	55.37	-18.63	74	55.36	40.1	20.66	60.75	359	355	P	H
		11490	44.49	-9.51	54	44.48	40.1	20.66	60.75	359	355	A	H
		17235	51.79	-16.41	68.2	41.39	40.84	26.48	56.92	100	0	P	H
													H
		11490	59.08	-14.92	74	59.07	40.1	20.66	60.75	100	43	P	V
		11490	47.51	-6.49	54	47.5	40.1	20.66	60.75	100	43	A	V
		17235	51.72	-16.48	68.2	41.32	40.84	26.48	56.92	100	0	P	V
802.11a CH 157 5785MHz		11570	52.79	-21.21	74	52.9	39.89	20.76	60.76	356	326	P	H
		11570	42.54	-11.46	54	42.65	39.89	20.76	60.76	356	326	A	H
		17355	51.45	-16.75	68.2	39.86	41.38	26.69	56.48	100	0	P	H
													H
		11570	55.09	-18.91	74	55.2	39.89	20.76	60.76	100	61	P	V
		11570	45.6	-8.4	54	45.71	39.89	20.76	60.76	100	61	A	V
		17355	52.1	-16.1	68.2	40.51	41.38	26.69	56.48	100	0	P	V
802.11a CH 165 5825MHz		11650	52.84	-21.16	74	53.14	39.6	20.85	60.75	358	353	P	H
		11650	42.84	-11.16	54	43.14	39.6	20.85	60.75	358	353	A	H
		17475	51.67	-16.53	68.2	38.86	41.97	26.89	56.05	100	0	P	H
													H
		11650	55.25	-18.75	74	55.55	39.6	20.85	60.75	100	67	P	V
		11650	45.39	-8.61	54	45.69	39.6	20.85	60.75	100	67	A	V
		17475	52.3	-15.9	68.2	39.49	41.97	26.89	56.05	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 149 5745MHz		5639.8	53.34	-14.86	68.2	37.67	31.7	13.02	29.05	202	27	P	H	
		5659	52.36	-22.52	74.88	36.63	31.72	13.05	29.04	202	27	P	H	
		5720	59.22	-51.58	110.8	43.22	31.88	13.15	29.03	202	27	P	H	
		5724.8	71.86	-49.88	121.74	55.83	31.9	13.16	29.03	202	27	P	H	
	*	5745	100.98	-	-	84.83	31.98	13.19	29.02	202	27	P	H	
	*	5745	93.89	-	-	77.74	31.98	13.19	29.02	202	27	A	H	
														H
														H
			5628	57.55	-10.65	68.2	41.9	31.7	13	29.05	181	13	P	V
			5666.8	62.21	-18.46	80.67	46.45	31.73	13.07	29.04	181	13	P	V
			5718.8	75.69	-34.77	110.46	59.69	31.88	13.15	29.03	181	13	P	V
			5724.8	90.33	-31.41	121.74	74.3	31.9	13.16	29.03	181	13	P	V
		*	5745	119.8	-	-	103.65	31.98	13.19	29.02	181	13	P	V
		*	5745	112.52	-	-	96.37	31.98	13.19	29.02	181	13	A	V
														V
														V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 157 5785MHz		5611.8	54.51	-13.69	68.2	38.88	31.7	12.98	29.05	204	26	P	H	
		5653.6	54.72	-16.15	70.87	39	31.71	13.05	29.04	204	26	P	H	
		5703.2	54.35	-51.75	106.1	38.44	31.81	13.13	29.03	204	26	P	H	
		5723.8	52.58	-66.88	119.46	36.55	31.9	13.16	29.03	204	26	P	H	
	*	5785	101.93	-	-	85.61	32.07	13.26	29.01	204	26	P	H	
	*	5785	94.19	-	-	77.87	32.07	13.26	29.01	204	26	A	H	
		5853.4	52.77	-61.68	114.45	36.35	32.11	13.31	29	204	26	P	H	
		5860.8	53.53	-55.64	109.17	37.08	32.12	13.32	28.99	204	26	P	H	
		5916	55.82	-19.02	74.84	39.19	32.26	13.35	28.98	204	26	P	H	
		5943.4	54.96	-13.24	68.2	38.19	32.37	13.37	28.97	204	26	P	H	
														H
														H
			5611.4	58.95	-9.25	68.2	43.32	31.7	12.98	29.05	187	14	P	V
			5699	62.53	-41.93	104.46	46.64	31.8	13.12	29.03	187	14	P	V
			5700.2	62.6	-42.66	105.26	46.71	31.8	13.12	29.03	187	14	P	V
			5722.8	57.94	-59.24	117.18	41.92	31.89	13.16	29.03	187	14	P	V
	*		5785	120.75	-	-	104.43	32.07	13.26	29.01	187	14	P	V
	*		5785	112.85	-	-	96.53	32.07	13.26	29.01	187	14	A	V
			5854.6	56.56	-55.15	111.71	40.13	32.11	13.31	28.99	187	14	P	V
			5858.6	59.1	-50.69	109.79	42.65	32.12	13.32	28.99	187	14	P	V
		5915.6	57.05	-18.08	75.13	40.42	32.26	13.35	28.98	187	14	P	V	
		5933.8	55.99	-12.21	68.2	39.27	32.34	13.36	28.98	187	14	P	V	
													V	
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 165 5825MHz	*	5825	101.91	-	-	85.51	32.1	13.3	29	181	26	P	H	
	*	5825	94.21	-	-	77.81	32.1	13.3	29	181	26	A	H	
		5850	56.5	-65.7	122.2	40.09	32.1	13.31	29	181	26	P	H	
		5868.8	54.54	-52.39	106.93	38.07	32.14	13.32	28.99	181	26	P	H	
		5880.8	54.56	-46.33	100.89	38.06	32.16	13.33	28.99	181	26	P	H	
		5942	56.09	-12.11	68.2	39.32	32.37	13.37	28.97	181	26	P	H	
														H
														H
	*	5825	120.18	-	-	103.78	32.1	13.3	29	192	15	15	P	V
	*	5825	112.44	-	-	96.04	32.1	13.3	29	192	15	15	A	V
		5850	73.07	-49.13	122.2	56.66	32.1	13.31	29	192	15	15	P	V
		5856.6	71.7	-38.65	110.35	55.27	32.11	13.31	28.99	192	15	15	P	V
		5901	58.59	-27.33	85.92	42.03	32.2	13.34	28.98	192	15	15	P	V
		5945	56.44	-11.76	68.2	39.66	32.38	13.37	28.97	192	15	15	P	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



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

WIFI Ant. 1+2	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 HT20 CH 149 5745MHz		11490	55.28	-18.72	74	55.27	40.1	20.66	60.75	358	360	P	H
		11490	44.69	-9.31	54	44.68	40.1	20.66	60.75	358	360	A	H
		17235	51.02	-17.18	68.2	40.62	40.84	26.48	56.92	100	0	P	H
													H
		11490	58.21	-15.79	74	58.2	40.1	20.66	60.75	100	44	P	V
		11490	47.25	-6.75	54	47.24	40.1	20.66	60.75	100	44	A	V
		17235	51.49	-16.71	68.2	41.09	40.84	26.48	56.92	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	49.68	-24.32	74	49.79	39.89	20.76	60.76	100	0	P	H
		17355	51.58	-16.62	68.2	39.99	41.38	26.69	56.48	100	0	P	H
													H
													H
		11570	55.92	-18.08	74	56.03	39.89	20.76	60.76	100	43	P	V
		11570	45.91	-8.09	54	46.02	39.89	20.76	60.76	100	43	A	V
		17355	52.33	-15.87	68.2	40.74	41.38	26.69	56.48	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	53.46	-20.54	74	53.76	39.6	20.85	60.75	400	117	P	H
		11650	42.68	-11.32	54	42.98	39.6	20.85	60.75	400	117	A	H
		17475	53.27	-14.93	68.2	40.46	41.97	26.89	56.05	100	0	P	H
													H
		11650	56.65	-17.35	74	56.95	39.6	20.85	60.75	100	104	P	V
		11650	46.17	-7.83	54	46.47	39.6	20.85	60.75	100	104	A	V
		17475	53.36	-14.84	68.2	40.55	41.97	26.89	56.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	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 )
		5635.4	54.94	-13.26	68.2	39.27	31.7	13.02	29.05	200	321	P	H
		5696.8	60.36	-42.48	102.84	44.49	31.79	13.11	29.03	200	321	P	H
		5717.4	75.29	-34.78	110.07	59.3	31.87	13.15	29.03	200	321	P	H
		5720.6	75.22	-36.95	112.17	59.22	31.88	13.15	29.03	200	321	P	H
	*	5755	100.5	-	-	84.3	32.01	13.21	29.02	200	321	P	H
	*	5755	92.66	-	-	76.46	32.01	13.21	29.02	200	321	A	H
		5850.4	54.8	-66.49	121.29	38.39	32.1	13.31	29	200	321	P	H
		5862.2	54.92	-53.86	108.78	38.47	32.12	13.32	28.99	200	321	P	H
		5920.4	55.02	-16.57	71.59	38.37	32.28	13.35	28.98	200	321	P	H
		5943.8	55.2	-13	68.2	38.42	32.38	13.37	28.97	200	321	P	H
<b>802.11n</b>													H
<b>HT40</b>													H
<b>CH 151</b>		5643.4	64.32	-3.88	68.2	48.64	31.7	13.03	29.05	200	13	P	V
<b>5755MHz</b>		5685.2	77.91	-16.37	94.28	62.08	31.77	13.1	29.04	200	13	P	V
		5709.6	91.53	-16.36	107.89	75.58	31.84	13.14	29.03	200	13	P	V
		5724.8	93.13	-28.61	121.74	77.1	31.9	13.16	29.03	200	13	P	V
	*	5755	118.04	-	-	101.84	32.01	13.21	29.02	200	13	P	V
	*	5755	110.34	-	-	94.14	32.01	13.21	29.02	200	13	A	V
		5853.6	60.6	-53.39	113.99	44.18	32.11	13.31	29	200	13	P	V
		5870	60.9	-45.7	106.6	44.43	32.14	13.32	28.99	200	13	P	V
		5882.8	57.5	-41.91	99.41	40.99	32.17	13.33	28.99	200	13	P	V
		5944.6	56.37	-11.83	68.2	39.59	32.38	13.37	28.97	200	13	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT40 CH 159 5795MHz		5605.8	53.43	-14.77	68.2	37.81	31.7	12.97	29.05	208	321	P	H	
		5693.4	53.68	-46.65	100.33	37.81	31.79	13.11	29.03	208	321	P	H	
		5711	54.69	-53.59	108.28	38.74	31.84	13.14	29.03	208	321	P	H	
		5722	53.92	-61.44	115.36	37.9	31.89	13.16	29.03	208	321	P	H	
	*	5795	100.44	-	-	84.09	32.09	13.27	29.01	208	321	P	H	
	*	5795	92.5	-	-	76.15	32.09	13.27	29.01	208	321	A	H	
		5854.6	55.5	-56.21	111.71	39.07	32.11	13.31	28.99	208	321	P	H	
		5858.6	56.81	-52.98	109.79	40.36	32.12	13.32	28.99	208	321	P	H	
		5890.8	55.73	-37.74	93.47	39.21	32.18	13.33	28.99	208	321	P	H	
		5931.6	55.57	-12.63	68.2	38.86	32.33	13.36	28.98	208	321	P	H	
														H
														H
			5639.6	58.91	-9.29	68.2	43.24	31.7	13.02	29.05	200	13	P	V
			5690	60.15	-37.68	97.83	44.3	31.78	13.1	29.03	200	13	P	V
			5712	64.34	-44.22	108.56	48.38	31.85	13.14	29.03	200	13	P	V
			5724.8	68.22	-53.52	121.74	52.19	31.9	13.16	29.03	200	13	P	V
	*		5795	117.83	-	-	101.48	32.09	13.27	29.01	200	13	P	V
	*		5795	109.38	-	-	93.03	32.09	13.27	29.01	200	13	A	V
			5850.8	72.32	-48.06	120.38	55.91	32.1	13.31	29	200	13	P	V
			5863.6	67.67	-40.72	108.39	51.21	32.13	13.32	28.99	200	13	P	V
		5876.8	61.49	-42.37	103.86	45	32.15	13.33	28.99	200	13	P	V	
		5932.4	56.14	-12.06	68.2	39.43	32.33	13.36	28.98	200	13	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													





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

WIFI Ant. 1+2	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 151 5755MHz		11510	49.8	-24.2	74	49.79	40.07	20.7	60.76	100	0	P	H	
		17265	50.49	-17.71	68.2	39.81	40.96	26.53	56.81	100	0	P	H	
													H	
													H	
			11510	55.01	-18.99	74	55	40.07	20.7	60.76	100	106	P	V
			11510	45.8	-8.2	54	45.79	40.07	20.7	60.76	100	106	A	V
			17265	51.34	-16.86	68.2	40.66	40.96	26.53	56.81	100	0	P	V
														V
802.11n HT40 CH 159 5795MHz		11590	48.72	-25.28	74	48.87	39.83	20.78	60.76	100	0	P	H	
		17385	51.5	-16.7	68.2	39.62	41.52	26.74	56.38	100	0	P	H	
													H	
													H	
			11590	53.34	-20.66	74	53.49	39.83	20.78	60.76	100	104	P	V
			11590	43.45	-10.55	54	43.6	39.83	20.78	60.76	100	104	A	V
			17385	52	-16.2	68.2	40.12	41.52	26.74	56.38	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz

5GHz WIFI 802.11n HT40 (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+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
5GHz 802.11n HT40 LF		145.43	29.92	-13.58	43.5	42.92	17.16	2.12	32.28	-	-	P	H	
		250.19	35.48	-10.52	46	46.47	18.58	2.77	32.34	-	-	P	H	
		375.32	37.47	-8.53	46	45.46	20.94	3.31	32.24	-	-	P	H	
		450.01	29.22	-16.78	46	34.64	23.11	3.61	32.14	-	-	P	H	
		624.61	32.33	-13.67	46	34.07	25.96	4.28	31.98	-	-	P	H	
		900.09	40.35	-5.65	46	38.13	28.99	5.15	31.92	100	336	QP	H	
													H	
													H	
													H	
													H	
													H	
													H	
			58.13	33.82	-6.18	40	53.12	11.79	1.31	32.4	100	0	P	V
			250.19	31.96	-14.04	46	42.95	18.58	2.77	32.34	-	-	P	V
			375.32	32.11	-13.89	46	40.1	20.94	3.31	32.24	-	-	P	V
			450.01	33.68	-12.32	46	39.1	23.11	3.61	32.14	-	-	P	V
			500.45	32.66	-13.34	46	37.08	23.92	3.75	32.09	-	-	P	V
			900.09	39.78	-6.22	46	37.56	28.99	5.15	31.92	100	0	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+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. 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 :	Jacky Hung, CR Liro, and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

**Note symbol**

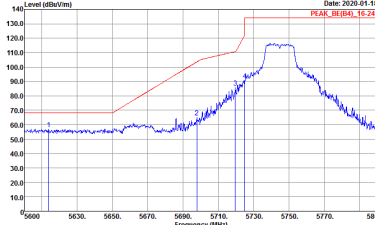
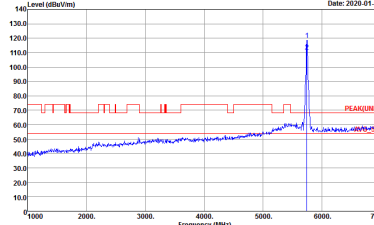
-L	Low channel location
-R	High channel location



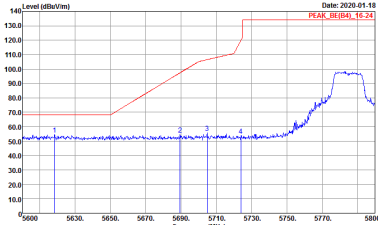
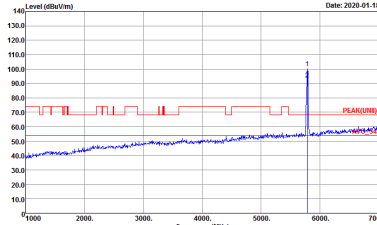
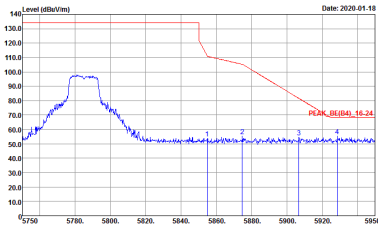
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Date: 2020-01-18 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-1FY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : FR9N0104            Setting : 31.5</p>	<p>Date: 2020-01-18 PEAK(B)</p> <p>Site : 03CH16-1FY            Condition : PEAK(LINII) 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : FR9N0104            Setting : 31.5</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2020-01-18 PEAK: 5745.1522</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Date: 2020-01-18 PEAK: 5745.1522</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	<p>           Date: 2020-01-18            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>	<p>           Date: 2020-01-18            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>
Peak	<p>           Date: 2020-01-18            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UWB) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(U8) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 315</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 315</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>

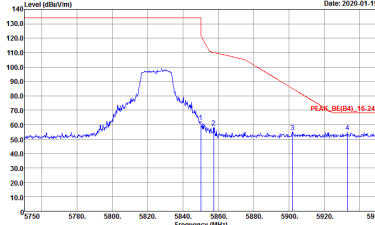
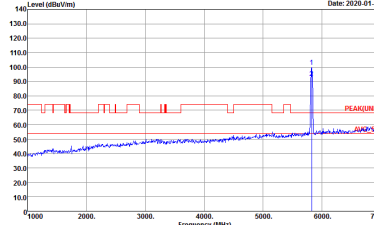


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 2020-01-19 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Date: 2020-01-19 PEAK(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Date: 2020-01-19 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	 <p>Site : 03CH16-HY            Condition : PEAK(U)B 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>





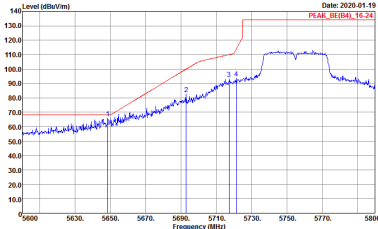
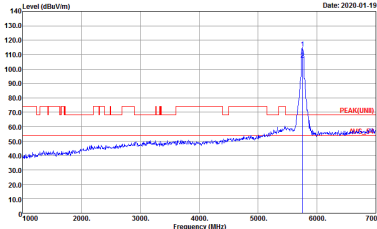
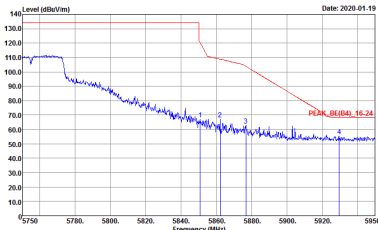
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(U)B 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>



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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : Z9</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : Z9</p>
<b>Peak</b>	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : Z9</p>	<b>Left blank</b>

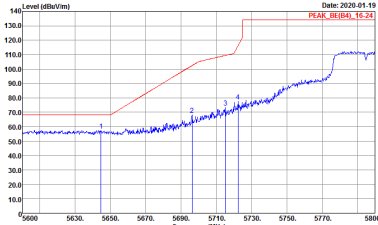
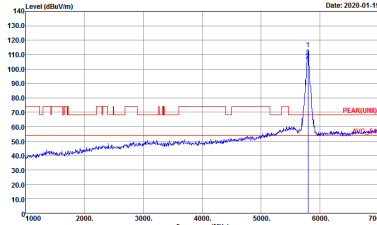
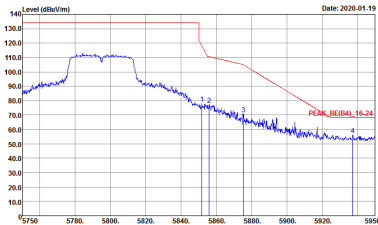


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 29</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 29</p>
Peak	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 29</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>



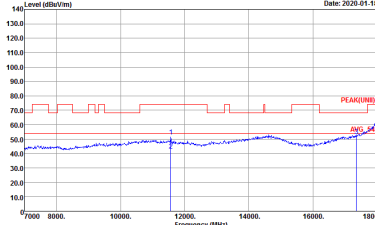
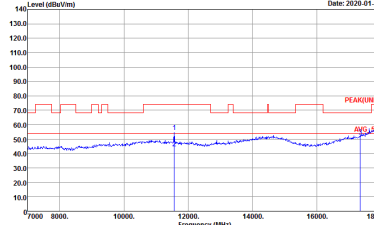
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2020-01-19</p> <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	 <p>Date: 2020-01-19</p> <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
Peak	 <p>Date: 2020-01-19</p> <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	Left blank



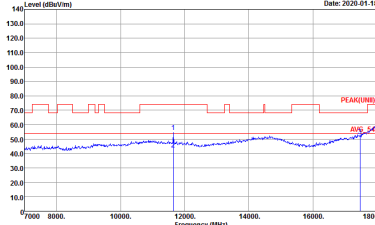
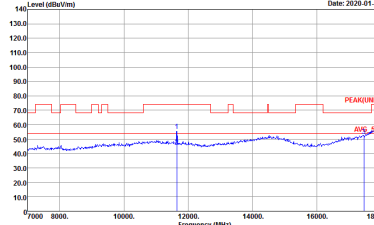
Band 4 - 5725~5850MHz  
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-1FY Condition : PEAK(LINE) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-1FY Condition : PEAK(LINE) 3m 9120D_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
<p>Peak Avg.</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-HY Condition : PEAK(UN[EI] 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Site : 03CH16-HY Condition : PEAK(UN[II] 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>

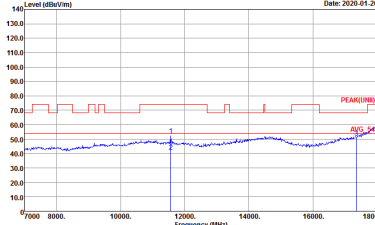
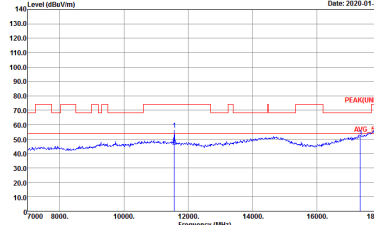




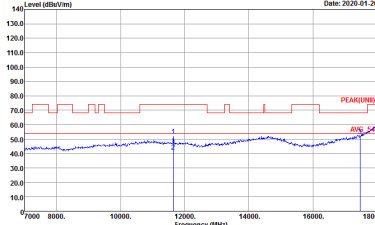
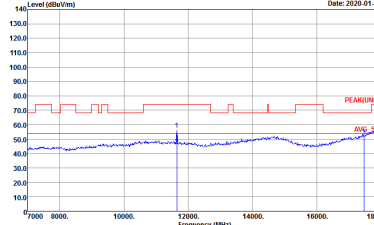
**Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH149 5745MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 9120D_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH157 5785MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH165 5825MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



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

Table with 2 columns: WIFI (Band 4 5725~5850MHz Harmonic @ 3m), ANT (802.11n HT40 CH151 5755MHz). Row 1: 1, Horizontal, Vertical. Each plot shows Level (dBu/m) vs Frequency (MHz) with Peak and Avg markers.



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH159 5795MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



Emission below 1GHz  
5GHz WIFI 802.11n HT40 (LF)

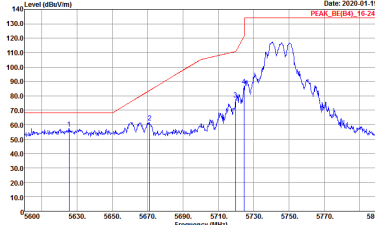
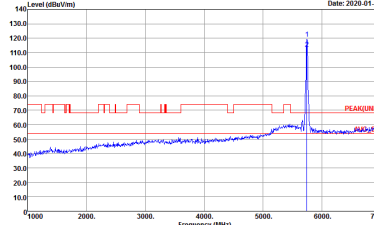
WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-1FY Condition : QP 3m B1LOG_47020406 HORIZONTAL Detector : Peak Project : 9N0104</p>	<p>Site : 03CH16-1FY Condition : QP 3m B1LOG_47020406 VERTICAL Detector : Peak Project : 9N0104</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>           Date: 2020-01-19            PEAK_BE(B4)_16-24         </p> <p>           Site : 03CH16-1FY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : FR9N0104            Setting : 31.5         </p>	<p>           Date: 2020-01-19            PEAK(FUN)         </p> <p>           Site : 03CH16-1FY            Condition : PEAK(FUN) 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : FR9N0104            Setting : 31.5         </p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2020-01-19 PEAK: 5745.1522</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Date: 2020-01-19 PEAK: 5745.1522</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>



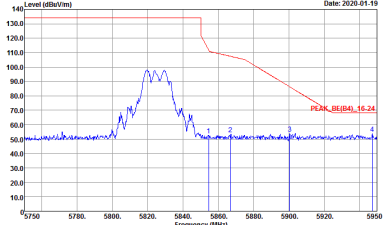
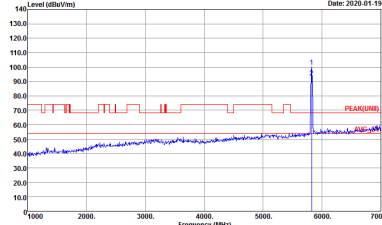


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>

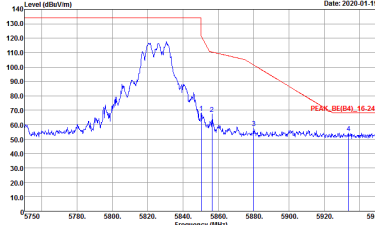
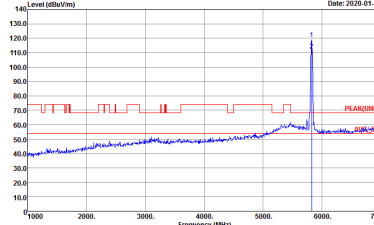


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	<p>           Date: 2020-01-19            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>	<p>           Date: 2020-01-19            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>
Peak	<p>           Date: 2020-01-19            PEAK_BE(84)_16-24         </p> <p>           Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5         </p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Date: 2020-01-19</p> <p>PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Date: 2020-01-19</p> <p>PEAK(FUN)</p> <p>Site : 03CH16-HY          Condition : PEAK(FUN) 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



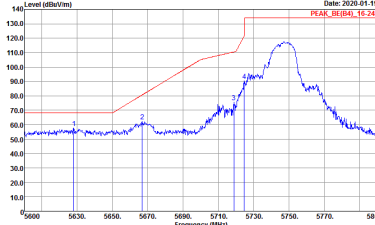
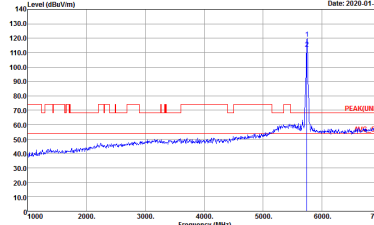
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(U8) 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000kHz VBW:3000.000kHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 315</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNI) 3m 91200_1522 HORIZONTAL          RBW:1000.000kHz VBW:3000.000kHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 315</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2020-01-19 PEAK_BE(4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	 <p>Date: 2020-01-19 PEAK(UN)</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>



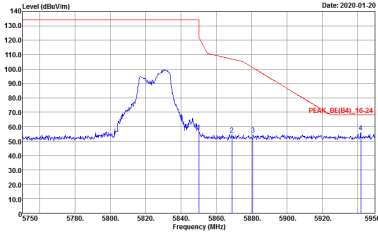
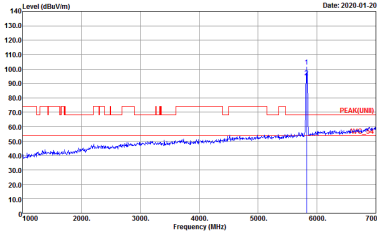
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	<p>Date: 2020-01-20 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Date: 2020-01-20 PEAK_UNI(8)</p> <p>Site : 03CH16-HY Condition : PEAK_UNI(8) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Date: 2020-01-20 PEAK_BE(84)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p><b>Left blank</b></p>



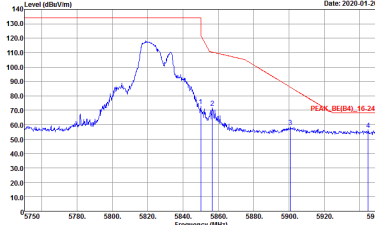
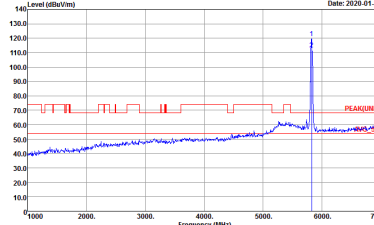
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(U)B 3m 91200_1522 HORIZONTAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



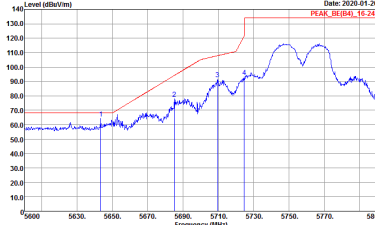
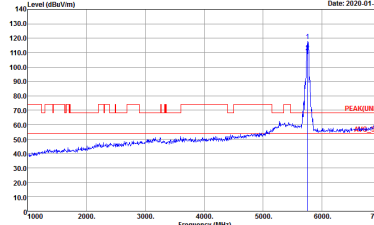
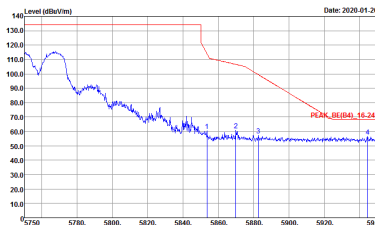
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(U)B 3m 91200_1522 VERTICAL          RBW:1000.000KHz VBW:3000.000KHz SWT:Auto          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



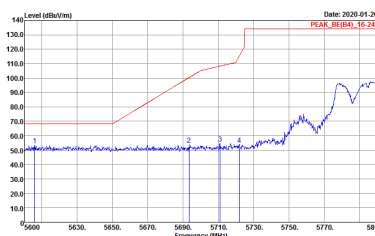
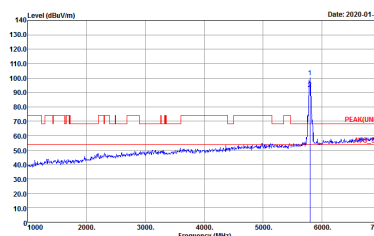
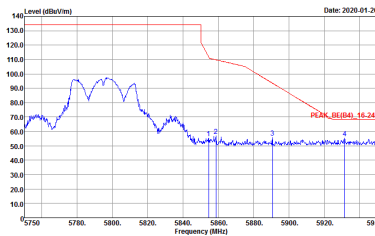
**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH151 5755MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 315</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 315</p>
<b>Peak</b>	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 315</p>	<b>Left blank</b>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	 <p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	 <p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>
<p><b>Peak</b></p>	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL            RBW:1000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 9N0104            Setting : 31.5</p>	<p><b>Left blank</b></p>



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

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot showing Level (dBuV/m) vs Frequency (MHz) with Peak and Avg. markers. Includes metadata like Site, Condition, Detector, Project, and Setting.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>





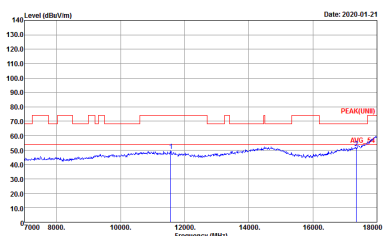
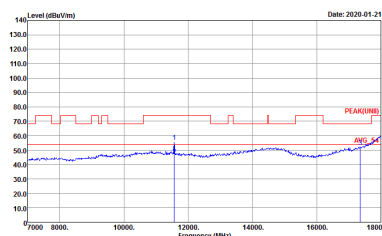
<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 9120D_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH157 5785MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



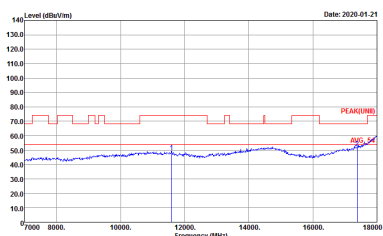
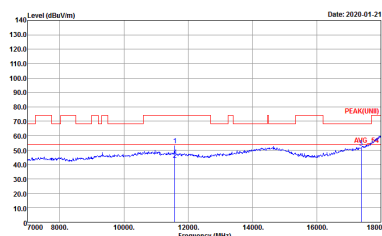
<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 9N0104 Setting : 31.5</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak Project : 9N0104 Setting : 31.5</p>



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

Table with 2 columns: WIFI (Band 4 5725~5850MHz Harmonic @ 3m), ANT (802.11n HT40 CH151 5755MHz). Sub-tables for Horizontal and Vertical orientations showing Peak and Avg. level plots (dBu/m) vs Frequency (MHz) with associated site and condition metadata.



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH159 5795MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b></p> <p><b>Avg.</b></p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>	 <p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak          Project : 9N0104          Setting : 31.5</p>



Emission below 1GHz  
5GHz WIFI 802.11n HT40 (LF)

<b>WIFI</b>	<b>5GHz 5725~5850MHz</b>	
<b>ANT</b>	<b>802.11n HT40 LF</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>QP / Peak</b>	<p>Site : 03CH16-1FY Condition : QP 3m BTL0G_47020406 HORIZONTAL Detector : Peak Project : 9N0104</p>	<p>Site : 03CH16-1FY Condition : QP 3m BTL0G_47020406 VERTICAL Detector : Peak Project : 9N0104</p>



### Appendix E. Duty Cycle Plots

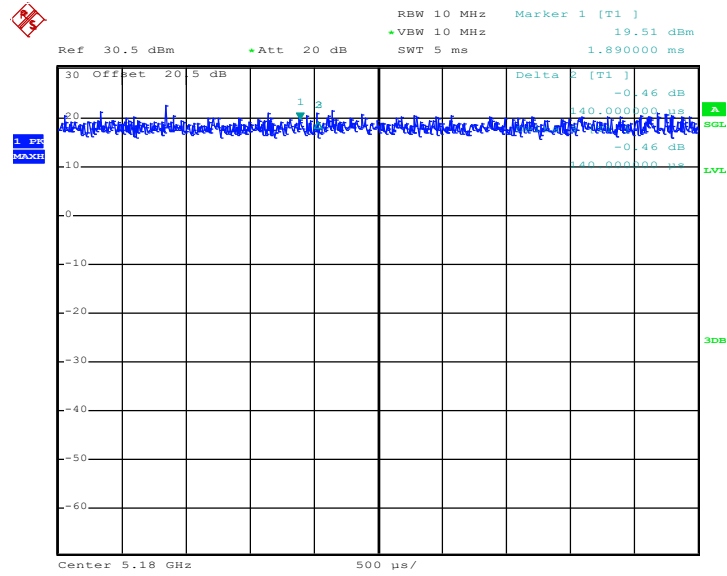
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	100.00	-	-	1kHz	0.00
2	802.11a	100.00	-	-	1kHz	0.00
1+2	802.11a for Ant. 1	100.00	-	-	1kHz	0.00
1+2	802.11a for Ant. 2	100.00	-	-	1kHz	0.00
1	5GHz 802.11n HT20	100.00	-	-	1kHz	0.00
2	5GHz 802.11n HT20	100.00	-	-	1kHz	0.00
1+2	5GHz 802.11n HT20 for Ant. 1	100.00	-	-	1kHz	0.00
1+2	5GHz 802.11n HT20 for Ant. 2	100.00	-	-	1kHz	0.00
1	5GHz 802.11n HT40	100.00	-	-	3kHz	0.00
2	5GHz 802.11n HT40	100.00	-	-	3kHz	0.00
1+2	5GHz 802.11n HT40 for Ant. 1	100.00	-	-	3kHz	0.00
1+2	5GHz 802.11n HT40 for Ant. 2	100.00	-	-	3kHz	0.00





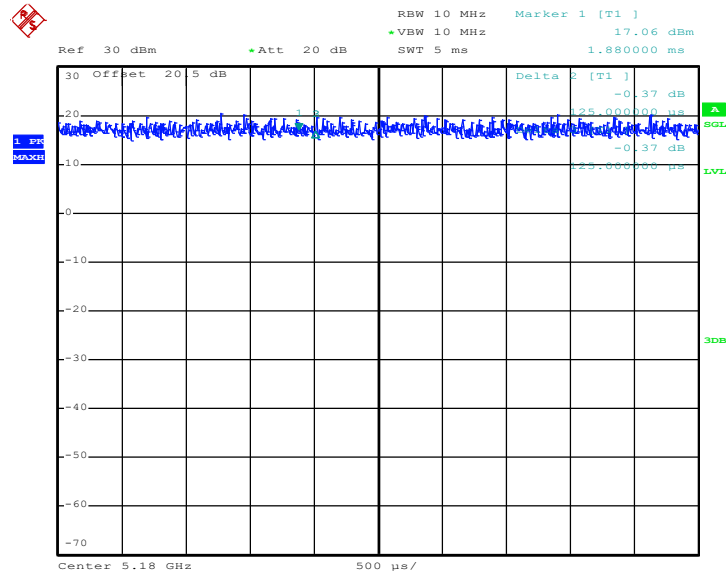
<Ant. 1>

802.11a



Date: 12.MAR.2020 14:00:00

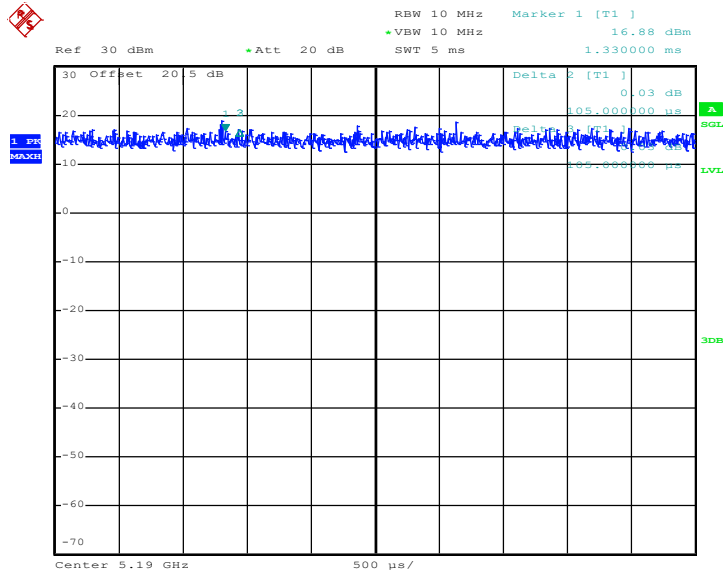
802.11n HT20



Date: 12.MAR.2020 14:07:43



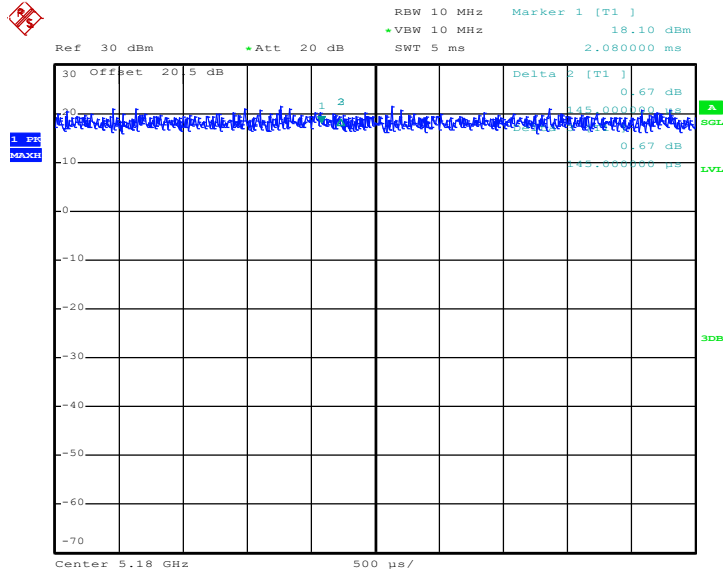
802.11n HT40



Date: 12.MAR.2020 14:18:39

<Ant. 2>

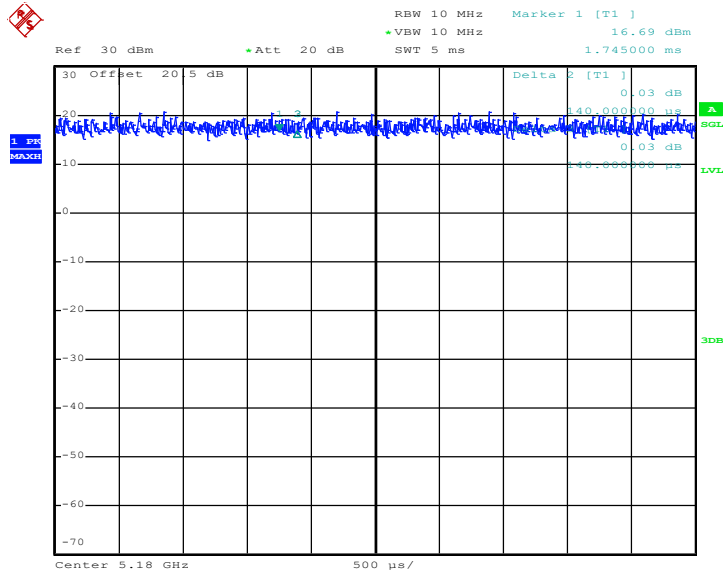
802.11a



Date: 12.MAR.2020 14:01:32

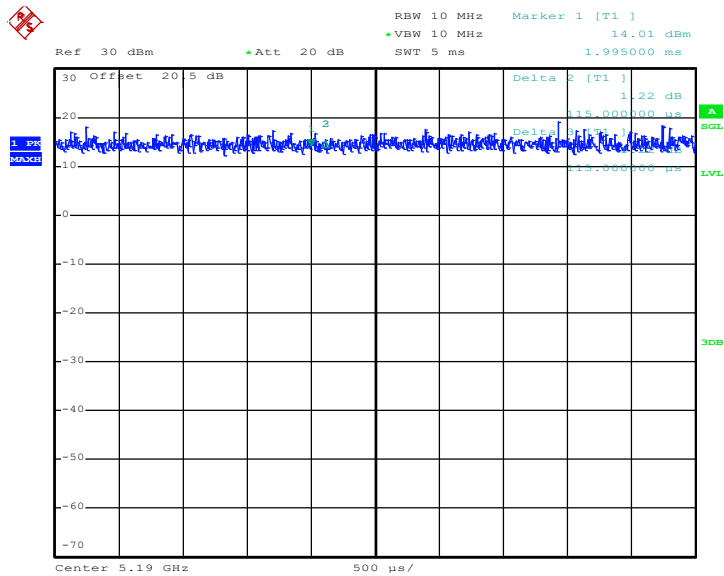


802.11n HT20



Date: 12.MAR.2020 14:09:17

802.11n HT40

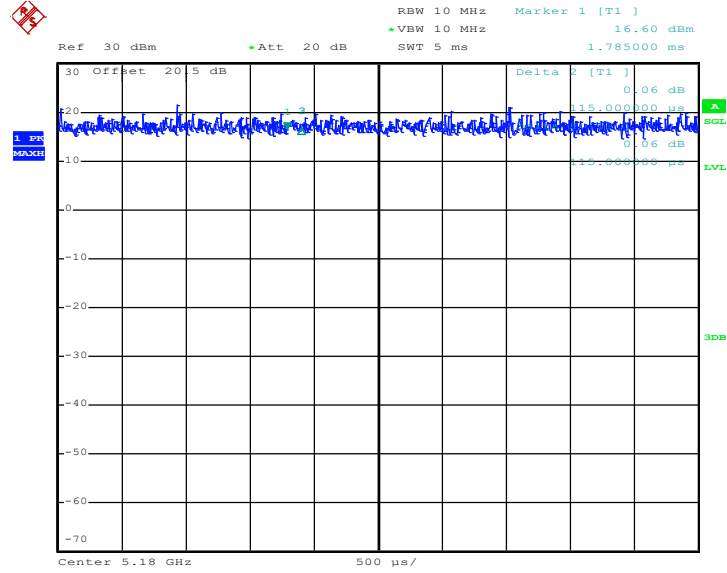


Date: 12.MAR.2020 14:19:35



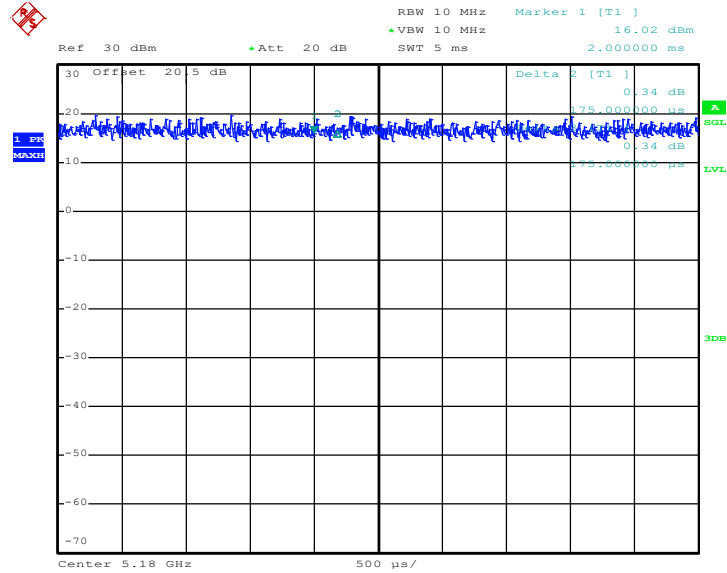
MIMO <Ant. 1>

802.11a



Date: 12.MAR.2020 14:03:33

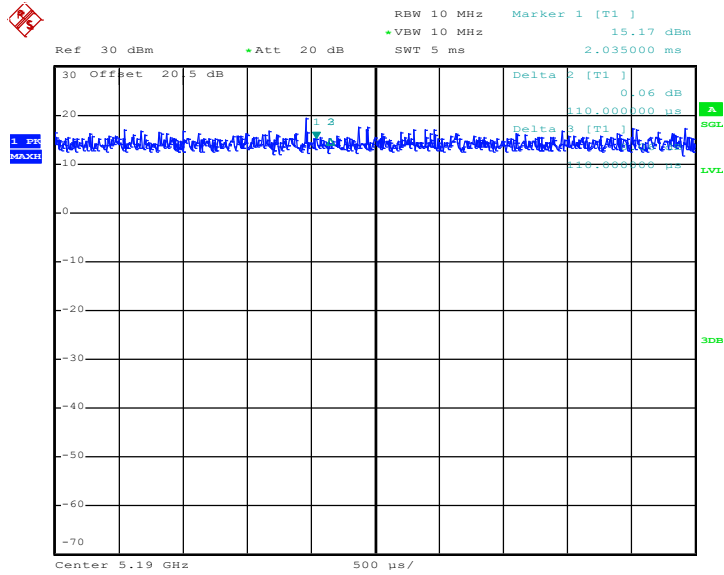
802.11n HT20



Date: 12.MAR.2020 14:14:58



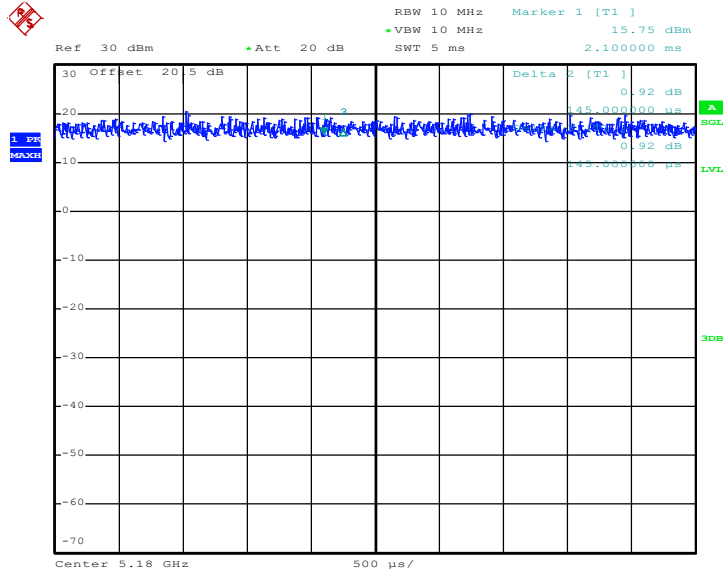
802.11n HT40



Date: 12.MAR.2020 14:20:46

MIMO <Ant. 2>

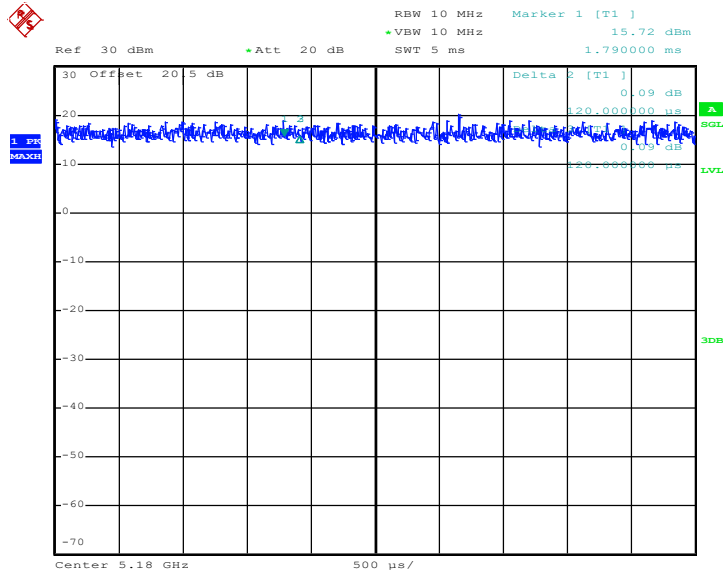
802.11a



Date: 12.MAR.2020 14:05:18

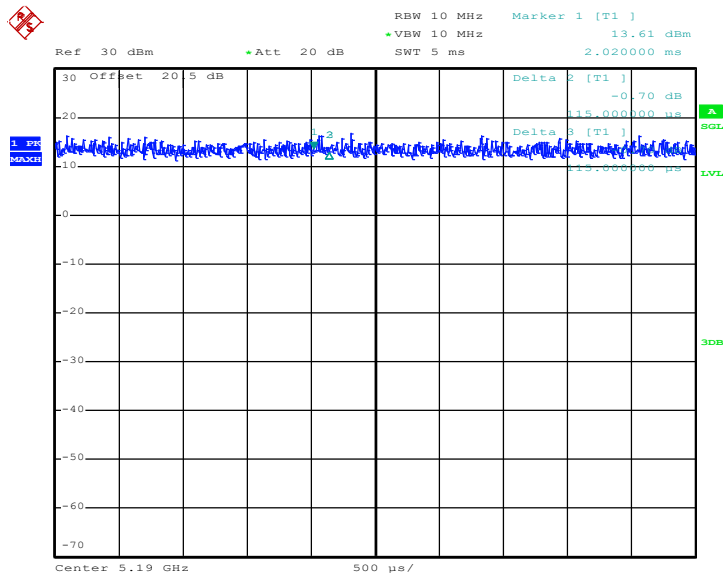


802.11n HT20



Date: 12.MAR.2020 14:16:03

802.11n HT40



Date: 12.MAR.2020 14:21:22