



FCC RF Test Report

APPLICANT : Aava Mobile Oy
EQUIPMENT : INARI6 SHORT FLIP
BRAND NAME : AAVA
MODEL NAME : INARI6 SHORT FLIP
FCC ID : 2ABVH-INARI61
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Feb. 09, 2018 and testing was completed on Mar. 23, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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Approved by: Jones Tsai / Manager



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REVISION HISTORY



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 1.04 dB at 5459.920 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.44 dB at 13.558 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Aava Mobile Oy

NAHKATEHTAANKATU 2 90130 OULU FINLAND

1.2 Manufacturer

Aava Mobile Oy

NAHKATEHTAANKATU 2 90130 OULU FINLAND

1.3 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, NFC, and GNSS

Product Specification subjective to this standard	
Antenna Type	WLAN: Ceramic Antenna Bluetooth: Ceramic Antenna GPS / Glonass: Ceramic Antenna NFC: Ferrite Antenna

<Sample Information>

Sample 1	Camera + BCR (BCR= bar code reader)
Sample 2	BCR only
Sample 3	Camera only
Sample 4	No Camera + No BCR

Remark: All tests were performed with Sample 1.

1.4 Modification of EUT

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



1.5 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sportun Site No.		
	TH05-HY	CO05-HY	03CH07-HY

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

1.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	-	-	-	-
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	-	-	-	-
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



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

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.

MIMO Mode

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

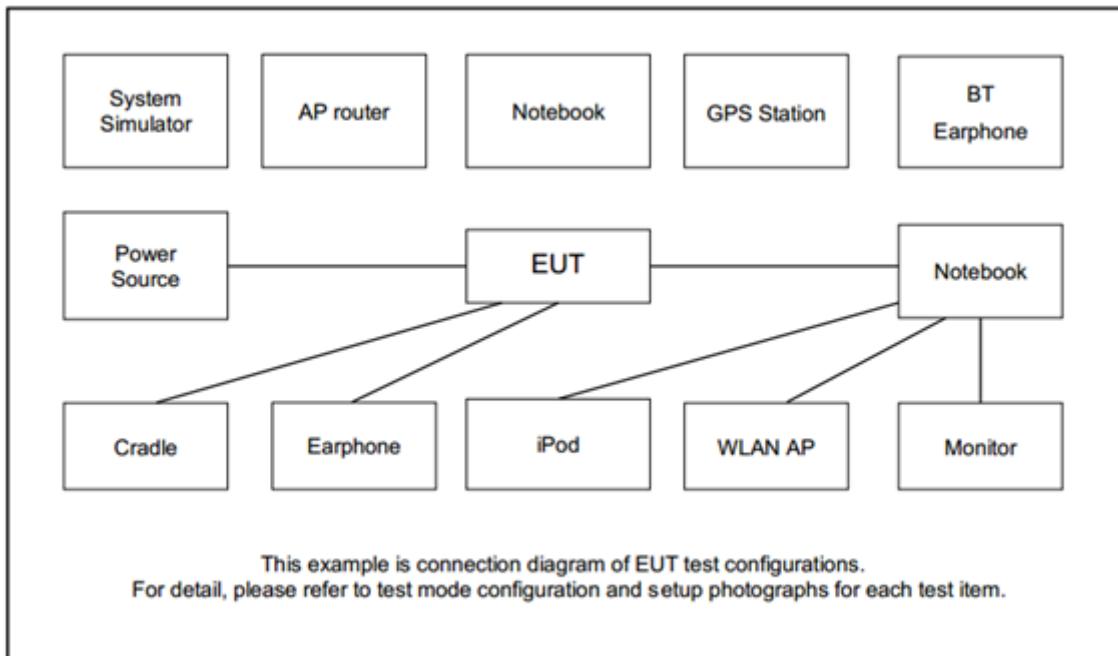
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC On + Bar Code Reader + USB Cable Type C (Charging from Adapter)

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

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

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

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.5 EUT Operation Test Setup

The RF test items, utility “WLANCONTR OLLER-Shortcut 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 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

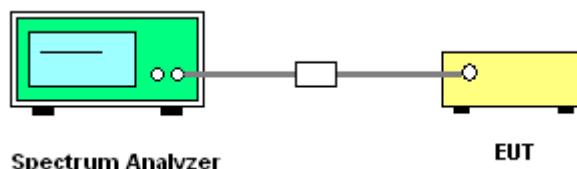
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

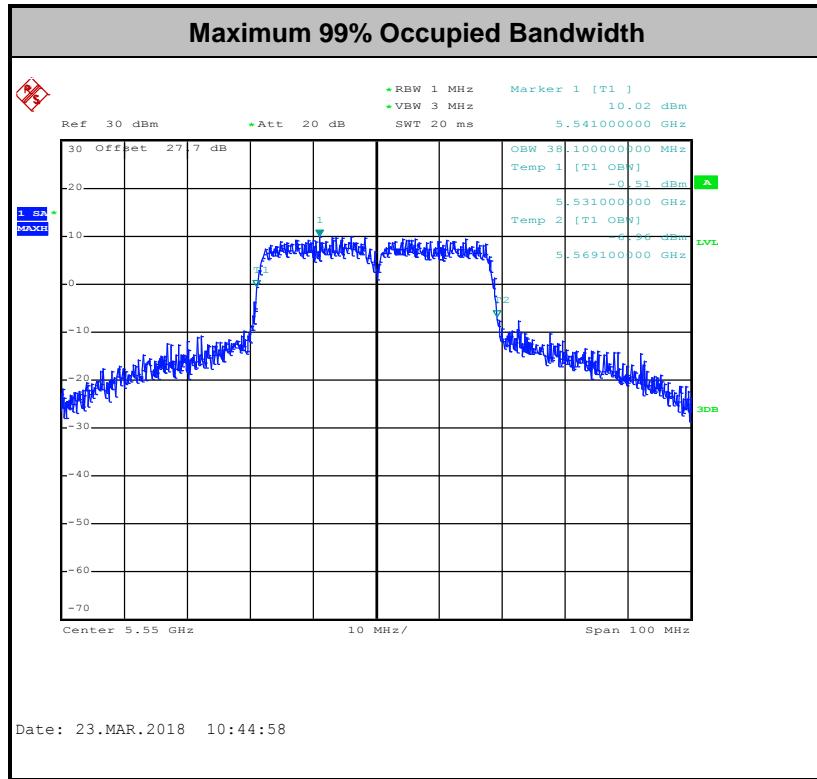
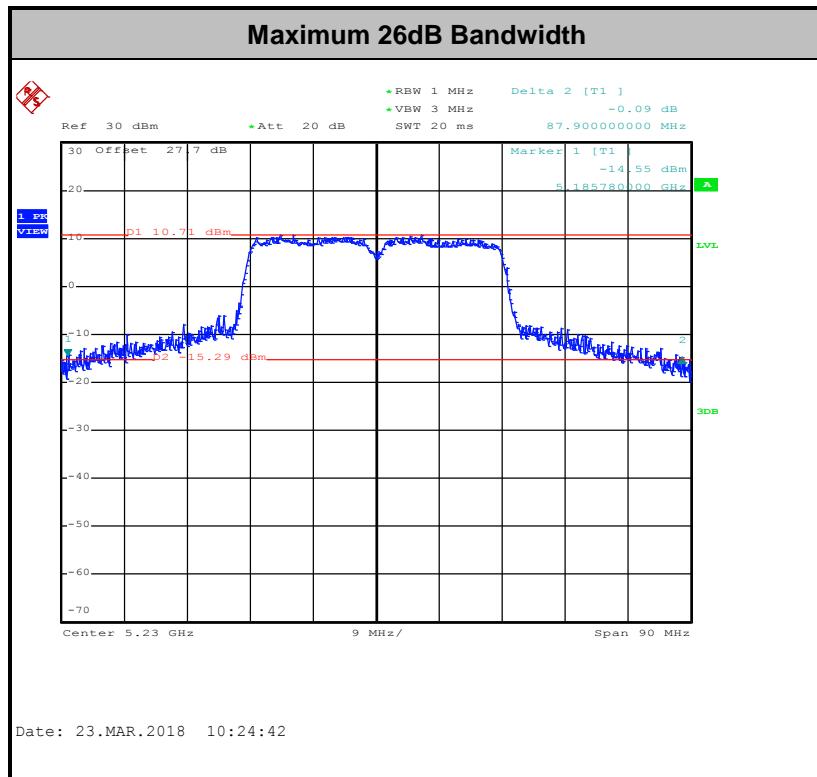
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

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

3.2.2 Measuring Instruments

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



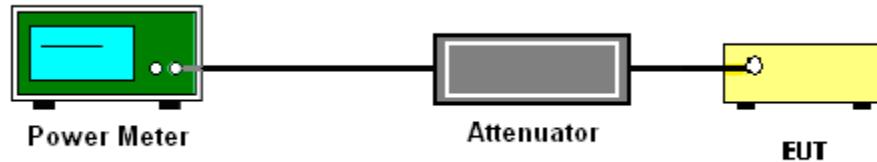
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-2

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

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

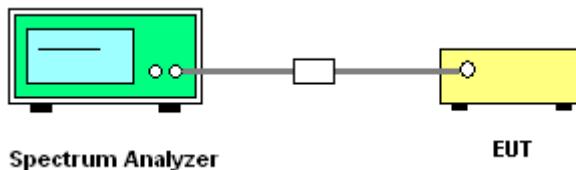


1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

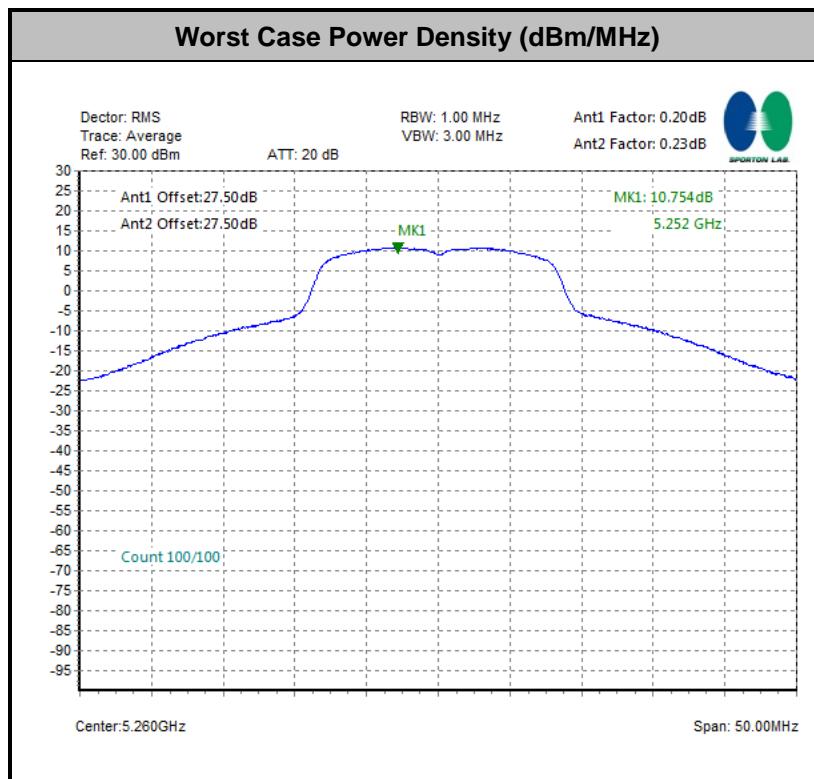
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

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

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



EIRP (dBm)	Field Strength at 3m (dB μ V/m)
-17	78.3
-27	68.3

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

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

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

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



3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

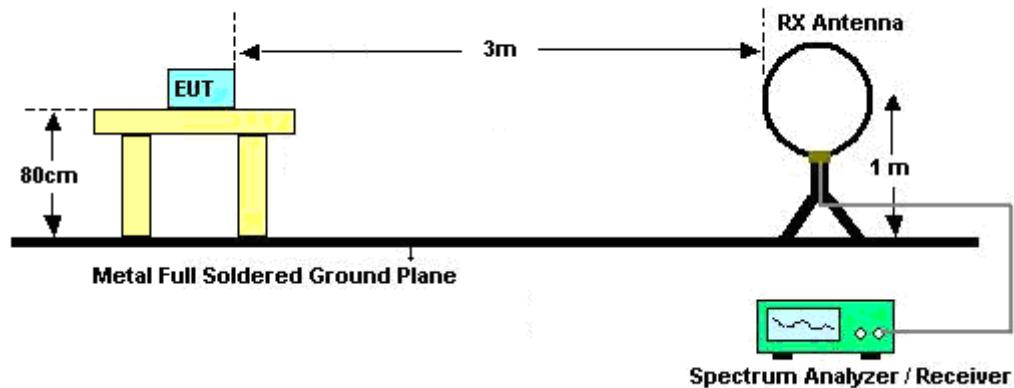
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



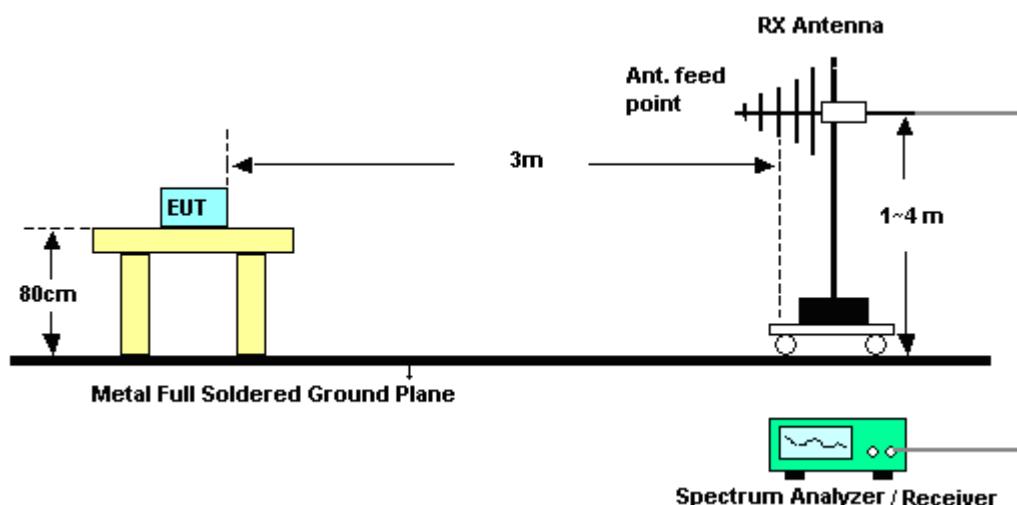
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

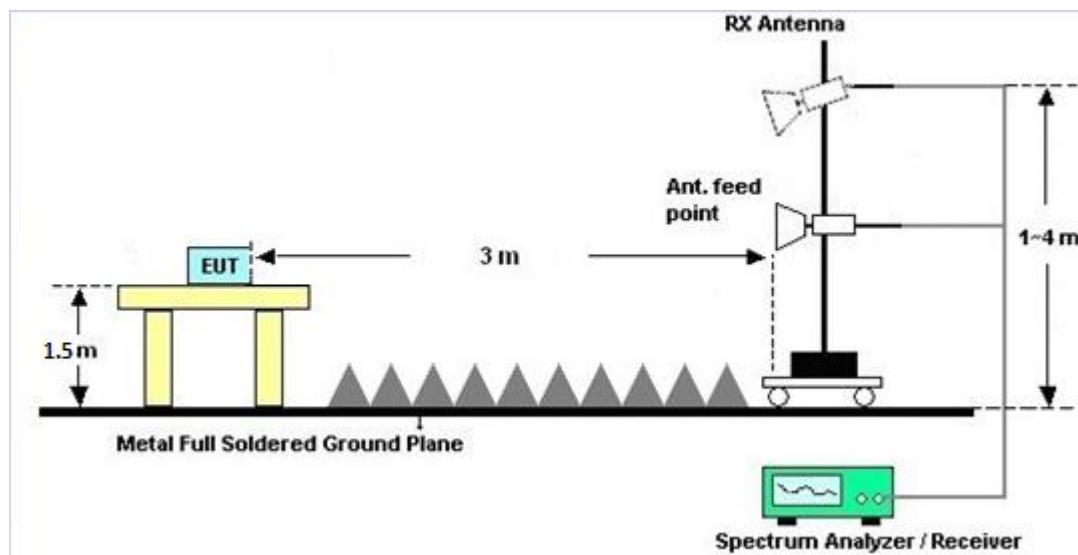
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

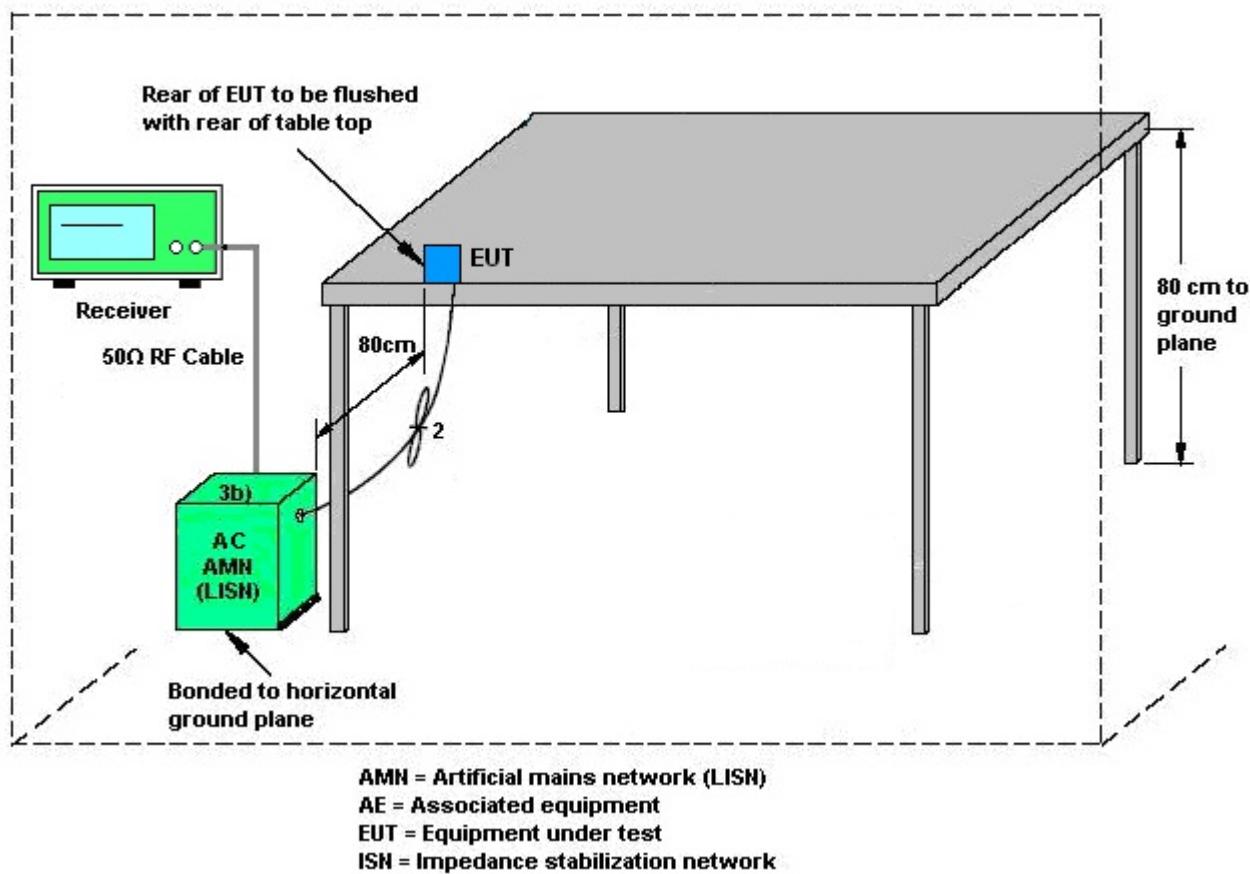
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

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

The measuring equipment is listed in the section 4 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 $NANT \leq 4$.

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>						
	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit (dB)	PSD Limit (dB)
Band I	2.60	3.50	3.50	6.07	0.00	0.07
Band II	2.60	3.50	3.50	6.07	0.00	0.07
Band III	2.90	3.20	3.20	6.06	0.00	0.06

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Mar. 01, 2018 ~ Mar. 23, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Mar. 01, 2018 ~ Mar. 23, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Mar. 01, 2018 ~ Mar. 23, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2017	Mar. 01, 2018 ~ Mar. 23, 2018	Oct. 05, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 01, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Mar. 01, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Mar. 01, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 01, 2018	N/A	Conduction (CO05-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz ~ 18GHz	Apr. 25, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Apr. 24, 2018	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 30, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY5347011 8	10Hz~44GHz	Apr. 17, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Apr. 16, 2018	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Mar. 15, 2018 ~ Mar. 21, 2018	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Mar. 15, 2018 ~ Mar. 21, 2018	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Jul. 17, 2018	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170 51	BBHA91702 51	18GHz- 40GHz	Nov. 10, 2017	Mar. 15, 2018 ~ Mar. 21, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8 -24	N/A	N/A	N/A	Mar. 15, 2018 ~ Mar. 21, 2018	N/A	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.70
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin / Allen Lin/Lena Lo	Temperature:	21~25	°C
Test Date:	2018/3/1 ~ 2018/03/23	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	17.10	17.25	21.50	28.58	-		22.33			
11a	6Mbps	2	44	5220	19.00	27.20	40.70	42.20	-		22.79			
11a	6Mbps	2	48	5240	17.90	19.55	40.27	40.30	-		22.53			
HT20	MCS0	2	36	5180	17.90	17.95	22.45	24.50	-		22.53			
HT20	MCS0	2	44	5220	19.30	25.05	40.60	45.50	-		22.86			
HT20	MCS0	2	48	5240	18.65	19.60	40.07	44.47	-		22.71			
HT40	MCS0	2	38	5190	36.80	36.70	46.80	45.72	-		23.01			
HT40	MCS0	2	46	5230	37.10	37.80	85.26	87.90	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail	
							Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.20	0.23	13.26	13.57	16.43	24.00	24.00	24.00	24.00	3.50	Pass	Pass
11a	6Mbps	2	44	5220	0.20	0.23	17.17	19.66	21.60	24.00	24.00	24.00	24.00	3.50		Pass
11a	6Mbps	2	48	5240	0.20	0.23	16.16	17.91	20.13	24.00	24.00	24.00	24.00	3.50		Pass
HT20	MCS0	2	36	5180	0.22	0.24	12.85	13.16	16.02	24.00	24.00	24.00	24.00	3.50		Pass
HT20	MCS0	2	44	5220	0.22	0.24	17.24	19.12	21.29	24.00	24.00	24.00	24.00	3.50		Pass
HT20	MCS0	2	48	5240	0.22	0.24	16.13	17.77	20.04	24.00	24.00	24.00	24.00	3.50		Pass
HT40	MCS0	2	38	5190	0.49	0.49	10.85	11.30	14.09	24.00	24.00	24.00	24.00	3.50		Pass
HT40	MCS0	2	46	5230	0.49	0.49	15.91	16.91	19.45	24.00	24.00	24.00	24.00	3.50		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
							Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.20	0.23			5.31	10.93		6.07		Pass	
11a	6Mbps	2	44	5220	0.20	0.23			10.69	10.93		6.07			
11a	6Mbps	2	48	5240	0.20	0.23			9.06	10.93		6.07			
HT20	MCS0	2	36	5180	0.22	0.24			4.94	10.93		6.07			
HT20	MCS0	2	44	5220	0.22	0.24			10.22	10.93		6.07			
HT20	MCS0	2	48	5240	0.22	0.24			8.87	10.93		6.07			
HT40	MCS0	2	38	5190	0.49	0.49			-0.80	10.93		6.07			
HT40	MCS0	2	46	5230	0.49	0.49			3.88	10.93		6.07			

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	22.25	29.30	41.21	45.49	23.98		30.00		23.98		
11a	6Mbps	2	60	5300	17.90	22.90	41.00	41.30	23.53		29.53		23.98		
11a	6Mbps	2	64	5320	17.15	17.15	27.80	27.90	23.34		29.34		23.98		
HT20	MCS0	2	52	5260	22.85	30.40	46.26	47.60	23.98		30.00		23.98		
HT20	MCS0	2	60	5300	18.55	20.60	38.32	42.89	23.68		29.68		23.98		
HT20	MCS0	2	64	5320	18.05	18.00	29.25	31.34	23.55		29.55		23.98		
HT40	MCS0	2	54	5270	36.90	37.10	67.96	81.18	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.90	36.70	46.26	45.72	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.20	0.23	17.51	20.31	22.14	23.98	3.50	26.99	Pass		
11a	6Mbps	2	60	5300	0.20	0.23	16.86	18.64	20.85	23.98	3.50	26.99	Pass		
11a	6Mbps	2	64	5320	0.20	0.23	13.99	14.43	17.23	23.98	3.50	26.99	Pass		
HT20	MCS0	2	52	5260	0.22	0.24	17.59	20.40	22.23	23.98	3.50	26.99	Pass		
HT20	MCS0	2	60	5300	0.22	0.24	16.59	18.01	20.37	23.98	3.50	26.99	Pass		
HT20	MCS0	2	64	5320	0.22	0.24	13.68	14.07	16.89	23.98	3.50	26.99	Pass		
HT40	MCS0	2	54	5270	0.49	0.49	14.96	15.73	18.37	23.98	3.50	26.99	Pass		
HT40	MCS0	2	62	5310	0.49	0.49	11.35	11.67	14.52	23.98	3.50	26.99	Pass		

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.20	0.23			10.75	10.93		6.07			Pass
11a	6Mbps	2	60	5300	0.20	0.23			8.53	10.93		6.07			Pass
11a	6Mbps	2	64	5320	0.20	0.23			5.29	10.93		6.07			Pass
HT20	MCS0	2	52	5260	0.22	0.24			10.64	10.93		6.07			Pass
HT20	MCS0	2	60	5300	0.22	0.24			8.14	10.93		6.07			Pass
HT20	MCS0	2	64	5320	0.22	0.24			4.64	10.93		6.07			Pass
HT40	MCS0	2	54	5270	0.49	0.49			2.54	10.93		6.07			Pass
HT40	MCS0	2	62	5310	0.49	0.49			-1.09	10.93		6.07			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	18.95	17.70	31.47	35.37	23.48		29.48	23.98
11a	6Mbps	2	116	5580	21.30	22.95	41.63	40.84	23.98		30.00	23.98
11a	6Mbps	2	140	5700	17.25	17.30	28.60	32.34	23.37		29.37	23.98
HT20	MCS0	2	100	5500	18.05	18.15	28.12	36.10	23.56		29.56	23.98
HT20	MCS0	2	116	5580	19.65	23.35	41.96	43.65	23.93		29.93	23.98
HT20	MCS0	2	140	5700	18.05	18.10	31.06	30.44	23.56		29.56	23.98
HT40	MCS0	2	102	5510	36.70	36.70	46.08	46.08	23.98		30.00	23.98
HT40	MCS0	2	110	5550	37.20	38.10	80.95	87.29	23.98		30.00	23.98
HT40	MCS0	2	134	5670	37.10	37.30	85.00	84.34	23.98		30.00	23.98

TEST RESULTS DATA
Average Power Table

FCC Band III														
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	100	5500	0.20	0.23	15.24	16.26	18.79	23.98	3.20	26.99	Pass	
11a	6Mbps	2	116	5580	0.20	0.23	17.64	18.35	21.02	23.98	3.20	26.99	Pass	
11a	6Mbps	2	140	5700	0.20	0.23	14.33	14.35	17.35	23.98	3.20	26.99	Pass	
HT20	MCS0	2	100	5500	0.22	0.24	14.30	15.14	17.75	23.98	3.20	26.99	Pass	
HT20	MCS0	2	116	5580	0.22	0.24	17.60	18.22	20.93	23.98	3.20	26.99	Pass	
HT20	MCS0	2	140	5700	0.22	0.24	13.96	14.20	17.09	23.98	3.20	26.99	Pass	
HT40	MCS0	2	102	5510	0.49	0.49	11.25	12.73	15.06	23.98	3.20	26.99	Pass	
HT40	MCS0	2	110	5550	0.49	0.49	16.40	17.35	19.91	23.98	3.20	26.99	Pass	
HT40	MCS0	2	134	5670	0.49	0.49	15.85	16.01	18.94	23.98	3.20	26.99	Pass	

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.20	0.23			6.81	10.94		6.06			Pass
11a	6Mbps	2	116	5580	0.20	0.23			10.44	10.94		6.06			Pass
11a	6Mbps	2	140	5700	0.20	0.23			5.14	10.94		6.06			Pass
HT20	MCS0	2	100	5500	0.22	0.24			5.89	10.94		6.06			Pass
HT20	MCS0	2	116	5580	0.22	0.24			10.23	10.94		6.06			Pass
HT20	MCS0	2	140	5700	0.22	0.24			4.56	10.94		6.06			Pass
HT40	MCS0	2	102	5510	0.49	0.49			-0.32	10.94		6.06			Pass
HT40	MCS0	2	110	5550	0.49	0.49			4.55	10.94		6.06			Pass
HT40	MCS0	2	134	5670	0.49	0.49			3.02	10.94		6.06			Pass



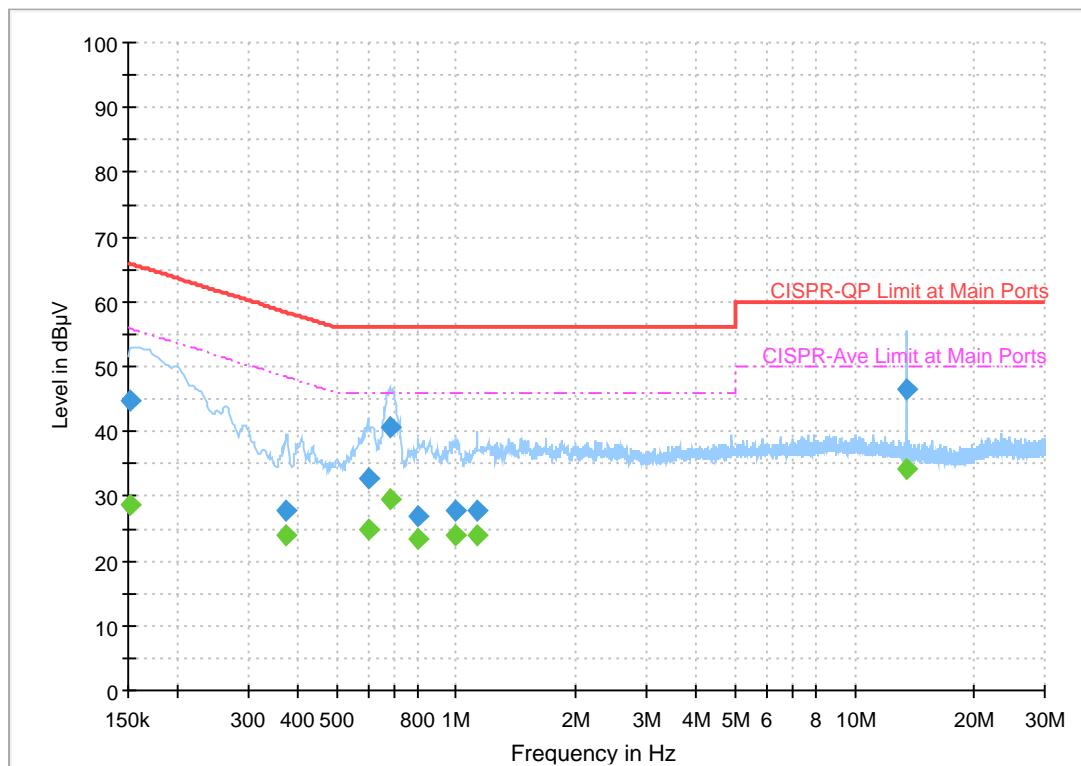
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	Temperature :	23~25°C
		Relative Humidity :	52~55%

EUT Information

Report NO : 820904
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



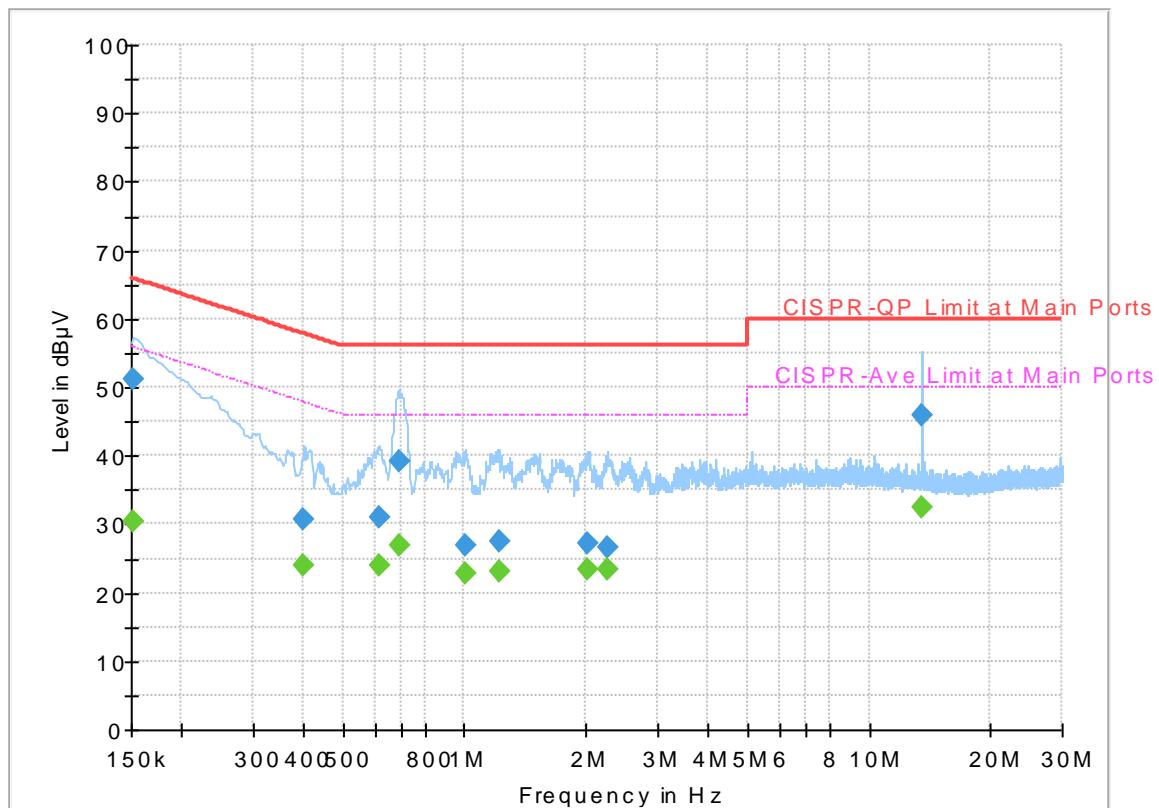
Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.51	55.88	27.37	L1	OFF	19.5
0.152250	44.64	---	65.88	21.24	L1	OFF	19.5
0.375000	---	23.88	48.39	24.51	L1	OFF	19.5
0.375000	27.78	---	58.39	30.61	L1	OFF	19.5
0.600000	---	24.95	46.00	21.05	L1	OFF	19.5
0.600000	32.69	---	56.00	23.31	L1	OFF	19.5
0.681000	---	29.50	46.00	16.50	L1	OFF	19.5
0.681000	40.55	---	56.00	15.45	L1	OFF	19.5
0.802500	---	23.34	46.00	22.66	L1	OFF	19.5
0.802500	26.77	---	56.00	29.23	L1	OFF	19.5
0.998250	---	23.85	46.00	22.15	L1	OFF	19.5
0.998250	27.80	---	56.00	28.20	L1	OFF	19.5
1.126500	---	23.95	46.00	22.05	L1	OFF	19.5
1.126500	27.66	---	56.00	28.34	L1	OFF	19.5
13.558000	---	34.20	50.00	15.80	L1	OFF	19.7
13.558000	46.56	---	60.00	13.44	L1	OFF	19.7

EUT Information

Report NO : 820904
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.30	55.88	25.58	N	OFF	19.5
0.152250	51.05	---	65.88	14.83	N	OFF	19.5
0.399750	---	23.98	47.86	23.88	N	OFF	19.5
0.399750	30.60	---	57.86	27.26	N	OFF	19.5
0.613500	---	23.94	46.00	22.06	N	OFF	19.5
0.613500	30.90	---	56.00	25.10	N	OFF	19.5
0.687750	---	27.00	46.00	19.00	N	OFF	19.5
0.687750	39.10	---	56.00	16.90	N	OFF	19.5
1.007250	---	22.85	46.00	23.15	N	OFF	19.5
1.007250	27.04	---	56.00	28.96	N	OFF	19.5
1.214250	---	22.96	46.00	23.04	N	OFF	19.5
1.214250	27.39	---	56.00	28.61	N	OFF	19.5
2.015250	---	23.36	46.00	22.64	N	OFF	19.6
2.015250	27.14	---	56.00	28.86	N	OFF	19.6
2.260500	---	23.28	46.00	22.72	N	OFF	19.4
2.260500	26.48	---	56.00	29.52	N	OFF	19.4
13.558000	---	32.38	50.00	17.62	N	OFF	19.8
13.558000	45.92	---	60.00	14.08	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Lance Chiang	Temperature :	22~24°C
		Relative Humidity :	50~54%



Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	60.87	-13.13	74	50.57	34.41	11.03	35.14	101	1	P	H
		5149.24	50.98	-3.02	54	40.68	34.41	11.03	35.14	101	1	A	H
	*	5180	107.38	-	-	97.03	34.46	11.03	35.14	101	1	P	H
	*	5180	100.21	-	-	89.86	34.46	11.03	35.14	101	1	A	H
													H
													H
		5145.86	62.18	-11.82	74	51.88	34.41	11.03	35.14	361	176	P	V
		5149.5	52.48	-1.52	54	42.18	34.41	11.03	35.14	361	176	A	V
	*	5180	107.22	-	-	96.87	34.46	11.03	35.14	361	176	P	V
	*	5180	99.95	-	-	89.6	34.46	11.03	35.14	361	176	A	V
802.11a CH 44 5220MHz													V
		5149.76	56.3	-17.7	74	46	34.41	11.03	35.14	225	348	P	H
		5149.76	50.46	-3.54	54	40.16	34.41	11.03	35.14	225	348	A	H
	*	5220	113.37	-	-	102.91	34.5	11.1	35.14	225	348	P	H
	*	5220	106	-	-	95.54	34.5	11.1	35.14	225	348	A	H
		5366.76	48.9	-25.1	74	38.2	34.71	11.14	35.15	225	348	P	H
		5365.08	41.08	-12.92	54	30.38	34.71	11.14	35.15	225	348	A	H
		5141.44	55.61	-18.39	74	45.31	34.41	11.03	35.14	397	180	P	V
		5147.94	47.31	-6.69	54	37.01	34.41	11.03	35.14	397	180	A	V
	*	5220	113.13	-	-	102.67	34.5	11.1	35.14	397	180	P	V
	*	5220	105.32	-	-	94.86	34.5	11.1	35.14	397	180	A	V
		5386.64	48.39	-25.61	74	37.65	34.74	11.15	35.15	397	180	P	V
		5370.68	41.15	-12.85	54	30.45	34.71	11.14	35.15	397	180	A	V



		5146.64	51.37	-22.63	74	41.07	34.41	11.03	35.14	101	1	P	H
		5149.76	42.54	-11.46	54	32.24	34.41	11.03	35.14	101	1	A	H
	*	5240	112.19	-	-	101.69	34.53	11.11	35.14	101	1	P	H
	*	5240	104.83	-	-	94.33	34.53	11.11	35.14	101	1	A	H
		5396.16	47.94	-26.06	74	37.18	34.76	11.15	35.15	101	1	P	H
		5458.32	41.14	-12.86	54	30.27	34.83	11.2	35.16	101	1	A	H
		5079.56	50.69	-23.31	74	40.6	34.32	10.9	35.13	354	182	P	V
		5150	41.51	-12.49	54	31.21	34.41	11.03	35.14	354	182	A	V
	*	5240	111.36	-	-	100.86	34.53	11.11	35.14	354	182	P	V
	*	5240	104.33	-	-	93.83	34.53	11.11	35.14	354	182	A	V
		5437.88	49.21	-24.79	74	38.36	34.81	11.2	35.16	354	182	P	V
		5385.8	40.84	-13.16	54	30.1	34.74	11.15	35.15	354	182	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	41.2	-27	68.2	46.48	37.19	16.84	59.31	100	0	P	H
		15540	46.22	-27.78	74	42.61	40.43	20.05	56.87	100	0	P	H
													H
													H
		10360	41.71	-26.49	68.2	46.99	37.19	16.84	59.31	100	0	P	V
		15540	46.54	-27.46	74	42.93	40.43	20.05	56.87	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	45.32	-22.88	68.2	50.34	37.25	16.98	59.25	100	0	P	H
		15660	46.79	-27.21	74	42.96	40.52	20.09	56.78	100	0	P	H
													H
													H
		10440	43.43	-24.77	68.2	48.45	37.25	16.98	59.25	100	0	P	V
		15660	46.98	-27.02	74	43.15	40.52	20.09	56.78	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	44.87	-23.33	68.2	49.76	37.29	17.03	59.21	100	0	P	H
		15720	46.68	-27.32	74	42.72	40.58	20.1	56.72	100	0	P	H
													H
													H
		10480	43.95	-24.25	68.2	48.84	37.29	17.03	59.21	100	0	P	V
		15720	47.22	-26.78	74	43.26	40.58	20.1	56.72	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 36 5180MHz		5150	59.88	-14.12	74	49.58	34.41	11.03	35.14	218	355	P	H
		5149.76	52.08	-1.92	54	41.78	34.41	11.03	35.14	218	355	P	H
	*	5180	106.92	-	-	96.57	34.46	11.03	35.14	218	355	P	H
	*	5180	100.28	-	-	89.93	34.46	11.03	35.14	218	355	A	H
													H
													H
		5146.12	59.42	-14.58	74	49.12	34.41	11.03	35.14	242	53	P	V
		5148.2	50.4	-3.6	54	40.1	34.41	11.03	35.14	242	53	A	V
	*	5180	105.67	-	-	95.32	34.46	11.03	35.14	242	53	P	V
	*	5180	99.12	-	-	88.77	34.46	11.03	35.14	242	53	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5141.18	57.69	-16.31	74	47.39	34.41	11.03	35.14	217	356	P	H
		5148.2	50.62	-3.38	54	40.32	34.41	11.03	35.14	217	356	A	H
	*	5220	112.26	-	-	101.8	34.5	11.1	35.14	217	356	P	H
	*	5220	104.76	-	-	94.3	34.5	11.1	35.14	217	356	A	H
		5368.16	48.27	-25.73	74	37.57	34.71	11.14	35.15	217	356	P	H
		5366.48	40.68	-13.32	54	29.98	34.71	11.14	35.15	217	356	A	H
		5146.9	56.67	-17.33	74	46.37	34.41	11.03	35.14	398	181	P	V
		5149.76	47.52	-6.48	54	37.22	34.41	11.03	35.14	398	181	A	V
	*	5220	111.39	-	-	100.93	34.5	11.1	35.14	398	181	P	V
	*	5220	103.96	-	-	93.5	34.5	11.1	35.14	398	181	A	V
		5400.64	48.78	-25.22	74	38.03	34.76	11.15	35.16	398	181	P	V
		5367.88	40.5	-13.5	54	29.8	34.71	11.14	35.15	398	181	A	V



		5094.64	49.9	-24.1	74	39.8	34.34	10.9	35.14	111	2	P	H
		5149.76	42.03	-11.97	54	31.73	34.41	11.03	35.14	111	2	A	H
	*	5240	109.19	-	-	98.69	34.53	11.11	35.14	111	2	P	H
	*	5240	102.57	-	-	92.07	34.53	11.11	35.14	111	2	A	H
		5409.04	48.83	-25.17	74	38.08	34.76	11.15	35.16	111	2	P	H
	HT20	5439.56	40.53	-13.47	54	29.68	34.81	11.2	35.16	111	2	A	H
	CH 48	5139.88	49.5	-24.5	74	39.27	34.41	10.96	35.14	391	180	P	V
	5240MHz	5147.42	41.91	-12.09	54	31.61	34.41	11.03	35.14	391	180	A	V
	*	5240	108.72	-	-	98.22	34.53	11.11	35.14	391	180	P	V
	*	5240	102.45	-	-	91.95	34.53	11.11	35.14	391	180	A	V
		5360.6	48.71	-25.29	74	38.01	34.71	11.14	35.15	391	180	P	V
		5458.6	40.9	-13.1	54	30.03	34.83	11.2	35.16	391	180	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 36 5180MHz		10360	41.93	-26.27	68.2	47.21	37.19	16.84	59.31	100	0	P	H
		15540	44.98	-29.02	74	41.37	40.43	20.05	56.87	100	0	P	H
													H
													H
		10360	41.92	-26.28	68.2	47.2	37.19	16.84	59.31	100	0	P	V
		15540	45.89	-28.11	74	42.28	40.43	20.05	56.87	100	0	P	V
													V
802.11n HT20 CH 44 5220MHz		10440	45.1	-23.1	68.2	50.12	37.25	16.98	59.25	100	0	P	H
		15660	46.63	-27.37	74	42.8	40.52	20.09	56.78	100	0	P	H
													H
													H
		10440	44.86	-23.34	68.2	49.88	37.25	16.98	59.25	100	0	P	V
		15660	47.4	-26.6	74	43.57	40.52	20.09	56.78	100	0	P	V
													V
802.11n HT20 CH 48 5240MHz		10480	43.04	-25.16	68.2	47.93	37.29	17.03	59.21	100	0	P	H
		15720	45.69	-28.31	74	41.73	40.58	20.1	56.72	100	0	P	H
													H
													H
		10480	44.22	-23.98	68.2	49.11	37.29	17.03	59.21	100	0	P	V
		15720	46.52	-27.48	74	42.56	40.58	20.1	56.72	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5142.22	60.27	-13.73	74	49.97	34.41	11.03	35.14	217	352	P	H
		5149.76	52.36	-1.64	54	42.06	34.41	11.03	35.14	217	352	A	H
	*	5190	101.56	-	-	91.14	34.46	11.1	35.14	217	352	P	H
	*	5190	94.74	-	-	84.32	34.46	11.1	35.14	217	352	A	H
		5350	48	-26	74	37.32	34.69	11.14	35.15	217	352	P	H
		5350	40.78	-13.22	54	30.1	34.69	11.14	35.15	217	352	A	H
		5143.52	56.78	-17.22	74	46.48	34.41	11.03	35.14	217	58	P	V
		5148.2	50.87	-3.13	54	40.57	34.41	11.03	35.14	217	58	A	V
	*	5190	101.12	-	-	90.7	34.46	11.1	35.14	217	58	P	V
	*	5190	93.83	-	-	83.41	34.46	11.1	35.14	217	58	A	V
802.11n HT40 CH 46 5230MHz		5379.36	48.23	-25.77	74	37.5	34.74	11.14	35.15	217	58	P	V
		5371.52	41.11	-12.89	54	30.41	34.71	11.14	35.15	217	58	A	V
		5147.42	59.4	-14.6	74	49.1	34.41	11.03	35.14	229	351	P	H
		5149.76	52.46	-1.54	54	42.16	34.41	11.03	35.14	229	351	A	H
	*	5230	104.11	-	-	93.61	34.53	11.11	35.14	229	351	P	H
	*	5230	97.09	-	-	86.59	34.53	11.11	35.14	229	351	A	H
		5356.4	49.51	-24.49	74	38.83	34.69	11.14	35.15	229	351	P	H
		5350.8	42.61	-11.39	54	31.93	34.69	11.14	35.15	229	351	A	H
		5144.3	59.41	-14.59	74	49.11	34.41	11.03	35.14	264	53	P	V
		5149.5	51.47	-2.53	54	41.17	34.41	11.03	35.14	264	53	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5112.35	49.38	-24.62	74	39.2	34.36	10.96	35.14	100	2	P	H
		5147.35	41.68	-12.32	54	31.38	34.41	11.03	35.14	100	2	A	H
	*	5260	113.28	-	-	102.75	34.57	11.11	35.15	100	2	P	H
	*	5260	105.63	-	-	95.1	34.57	11.11	35.15	100	2	A	H
		5351.28	54.82	-19.18	74	44.14	34.69	11.14	35.15	100	2	P	H
		5351.04	45.69	-8.31	54	35.01	34.69	11.14	35.15	100	2	A	H
		5149.45	49.98	-24.02	74	39.68	34.41	11.03	35.14	392	188	P	V
		5148.4	41.87	-12.13	54	31.57	34.41	11.03	35.14	392	188	A	V
	*	5260	113.44	-	-	102.91	34.57	11.11	35.15	392	188	P	V
	*	5260	105.91	-	-	95.38	34.57	11.11	35.15	392	188	A	V
802.11a CH 60 5300MHz		5352	53.39	-20.61	74	42.71	34.69	11.14	35.15	392	188	P	V
		5350.8	45	-9	54	34.32	34.69	11.14	35.15	392	188	A	V
		5095.2	49.39	-24.61	74	39.29	34.34	10.9	35.14	100	356	P	H
		5079.45	40.51	-13.49	54	30.42	34.32	10.9	35.13	100	356	A	H
	*	5300	110.8	-	-	100.21	34.62	11.12	35.15	100	356	P	H
	*	5300	103.3	-	-	92.71	34.62	11.12	35.15	100	356	A	H
		5353.68	61.76	-12.24	74	51.08	34.69	11.14	35.15	100	356	P	H
		5352.72	52.66	-1.34	54	41.98	34.69	11.14	35.15	100	356	A	H
		5060.2	49.56	-24.44	74	39.5	34.29	10.9	35.13	385	183	P	V
		5147.7	40.7	-13.3	54	30.4	34.41	11.03	35.14	385	183	A	V



	*	5320	106.88	-	-	96.26	34.64	11.13	35.15	112	356	P	H
802.11a CH 64 5320MHz	*	5320	100.04	-	-	89.42	34.64	11.13	35.15	112	356	A	H
		5352.96	59.78	-14.22	74	49.1	34.69	11.14	35.15	112	356	P	H
		5351.84	51.58	-2.42	54	40.9	34.69	11.14	35.15	112	356	A	H
													H
													H
	*	5320	109.49	-	-	98.87	34.64	11.13	35.15	381	184	P	V
	*	5320	102.1	-	-	91.48	34.64	11.13	35.15	381	184	A	V
		5353.12	63.09	-10.91	74	52.41	34.69	11.14	35.15	381	184	P	V
		5351.68	52.71	-1.29	54	42.03	34.69	11.14	35.15	381	184	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	44.05	-24.15	68.2	48.82	37.32	17.09	59.18	100	0	P	H
		15780	46.94	-27.06	74	42.92	40.62	20.08	56.68	100	0	P	H
													H
													H
		10520	45.03	-23.17	68.2	49.8	37.32	17.09	59.18	100	0	P	V
		15780	47.73	-26.27	74	43.71	40.62	20.08	56.68	100	0	P	V
													V
802.11a CH 60 5300MHz		10600	43.7	-30.3	74	48.15	37.42	17.21	59.08	100	0	P	H
		15900	45.61	-28.39	74	41.29	40.72	20.18	56.58	100	0	P	H
													H
													H
		10600	43.15	-30.85	74	47.6	37.42	17.21	59.08	100	0	P	V
		15900	46.19	-27.81	74	41.87	40.72	20.18	56.58	100	0	P	V
													V
802.11a CH 64 5320MHz		10640	44.58	-29.42	74	48.89	37.47	17.25	59.03	100	0	P	H
		15960	46.57	-27.43	74	42.09	40.77	20.24	56.53	100	0	P	H
													H
													H
		10640	43.83	-30.17	74	48.14	37.47	17.25	59.03	100	0	P	V
		15960	47.16	-26.84	74	42.68	40.77	20.24	56.53	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 52 5260MHz		5132.65	50.21	-23.79	74	40	34.39	10.96	35.14	100	1	P	H
		5149.45	41.88	-12.12	54	31.58	34.41	11.03	35.14	100	1	A	H
	*	5260	112.11	-	-	101.58	34.57	11.11	35.15	100	1	P	H
	*	5260	104.4	-	-	93.87	34.57	11.11	35.15	100	1	A	H
		5353.44	54.21	-19.79	74	43.53	34.69	11.14	35.15	100	1	P	H
		5350.32	46.09	-7.91	54	35.41	34.69	11.14	35.15	100	1	A	H
		5148.05	50.91	-23.09	74	40.61	34.41	11.03	35.14	391	174	P	V
		5150	42.01	-11.99	54	31.71	34.41	11.03	35.14	391	174	A	V
	*	5260	112.14	-	-	101.61	34.57	11.11	35.15	391	174	P	V
	*	5260	105.05	-	-	94.52	34.57	11.11	35.15	391	174	A	V
802.11n HT20 CH 60 5300MHz		5350.8	51.8	-22.2	74	41.12	34.69	11.14	35.15	391	174	P	V
		5351.52	45.78	-8.22	54	35.1	34.69	11.14	35.15	391	174	A	V
		5081.2	48.45	-25.55	74	38.36	34.32	10.9	35.13	102	356	P	H
		5149.45	40.66	-13.34	54	30.36	34.41	11.03	35.14	102	356	A	H
	*	5300	109.18	-	-	98.59	34.62	11.12	35.15	102	356	P	H
	*	5300	102.18	-	-	91.59	34.62	11.12	35.15	102	356	A	H
		5355.6	60.64	-13.36	74	49.96	34.69	11.14	35.15	102	356	P	H
		5351.52	52.47	-1.53	54	41.79	34.69	11.14	35.15	102	356	A	H
		5126.7	48.68	-25.32	74	38.47	34.39	10.96	35.14	382	186	P	V
		5078.75	40.49	-13.51	54	30.4	34.32	10.9	35.13	382	186	A	V



802.11n HT20 CH 64 5320MHz	*	5320	106.01	-	-	95.39	34.64	11.13	35.15	109	355	P	H
	*	5320	98.65	-	-	88.03	34.64	11.13	35.15	109	355	A	H
		5354.08	59.76	-14.24	74	49.08	34.69	11.14	35.15	109	355	P	H
		5350.08	50.11	-3.89	54	39.43	34.69	11.14	35.15	109	355	A	H
													H
													H
	*	5320	106.43	-	-	95.81	34.64	11.13	35.15	380	182	P	V
	*	5320	100.68	-	-	90.06	34.64	11.13	35.15	380	182	A	V
		5350.24	62.5	-11.5	74	51.82	34.69	11.14	35.15	380	182	P	V
		5350.72	52.69	-1.31	54	42.01	34.69	11.14	35.15	380	182	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 52 5260MHz		10520	44.3	-23.9	68.2	49.07	37.32	17.09	59.18	100	0	P	H
		15780	46.51	-27.49	74	42.49	40.62	20.08	56.68	100	0	P	H
													H
													H
		10520	44.03	-24.17	68.2	48.8	37.32	17.09	59.18	100	0	P	V
		15780	46.61	-27.39	74	42.59	40.62	20.08	56.68	100	0	P	V
													V
802.11n HT20 CH 60 5300MHz		10600	43.49	-30.51	74	47.94	37.42	17.21	59.08	100	0	P	H
		15900	45.67	-28.33	74	41.35	40.72	20.18	56.58	100	0	P	H
													H
													H
		10600	43.53	-30.47	74	47.98	37.42	17.21	59.08	100	0	P	V
		15900	45.39	-28.61	74	41.07	40.72	20.18	56.58	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	45.06	-28.94	74	49.37	37.47	17.25	59.03	100	0	P	H
		15960	46.45	-27.55	74	41.97	40.77	20.24	56.53	100	0	P	H
													H
													H
		10640	44.5	-29.5	74	48.81	37.47	17.25	59.03	100	0	P	V
		15960	45.95	-28.05	74	41.47	40.77	20.24	56.53	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5082.6	50.98	-23.02	74	40.89	34.32	10.9	35.13	100	59	P	H
		5144.9	42.54	-11.46	54	32.24	34.41	11.03	35.14	100	59	A	H
	*	5270	103.86	-	-	93.32	34.57	11.12	35.15	100	59	P	H
	*	5270	96.96	-	-	86.42	34.57	11.12	35.15	100	59	A	H
		5354.4	58.18	-15.82	74	47.5	34.69	11.14	35.15	100	59	P	H
		5351.76	47.91	-6.09	54	37.23	34.69	11.14	35.15	100	59	A	H
		5148.75	53.93	-20.07	74	43.63	34.41	11.03	35.14	365	172	P	V
		5149.1	45.08	-8.92	54	34.78	34.41	11.03	35.14	365	172	A	V
	*	5270	104.12	-	-	93.58	34.57	11.12	35.15	365	172	P	V
	*	5270	97.62	-	-	87.08	34.57	11.12	35.15	365	172	A	V
802.11n HT40 CH 62 5310MHz		5353.2	59.89	-14.11	74	49.21	34.69	11.14	35.15	365	172	P	V
		5351.52	52.42	-1.58	54	41.74	34.69	11.14	35.15	365	172	A	V
		5094.85	48.81	-25.19	74	38.71	34.34	10.9	35.14	246	354	P	H
		5111.3	41.36	-12.64	54	31.18	34.36	10.96	35.14	246	354	A	H
	*	5310	100.04	-	-	89.42	34.64	11.13	35.15	246	354	P	H
	*	5310	94.23	-	-	83.61	34.64	11.13	35.15	246	354	A	H
		5350.08	59.55	-14.45	74	48.87	34.69	11.14	35.15	246	354	P	H
		5351.76	52.59	-1.41	54	41.91	34.69	11.14	35.15	246	354	A	H
		5119.35	49.31	-24.69	74	39.13	34.36	10.96	35.14	358	163	P	V
		5107.45	41.04	-12.96	54	30.86	34.36	10.96	35.14	358	163	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.32	59.15	-14.85	74	48.28	34.83	11.2	35.16	100	340	P	H
		5467.28	62.02	-6.18	68.2	51.08	34.85	11.25	35.16	100	339	P	H
		5459.44	49.1	-4.9	54	38.23	34.83	11.2	35.16	100	340	A	H
	*	5500	106.33	-	-	95.34	34.9	11.25	35.16	100	340	P	H
	*	5500	99.43	-	-	88.44	34.9	11.25	35.16	100	340	A	H
													H
		5455.92	59.72	-14.28	74	48.85	34.83	11.2	35.16	196	127	P	V
		5467.6	66.05	-2.15	68.2	55.11	34.85	11.25	35.16	196	127	P	V
		5458.16	52.32	-1.68	54	41.45	34.83	11.2	35.16	196	127	A	V
	*	5500	110.57	-	-	99.58	34.9	11.25	35.16	196	127	P	V
	*	5500	102.4	-	-	91.41	34.9	11.25	35.16	196	127	A	V
													V
802.11a CH 116 5580MHz		5442.4	48.71	-25.29	74	37.86	34.81	11.2	35.16	101	95	P	H
		5461.12	48.36	-19.84	68.2	37.44	34.83	11.25	35.16	101	95	P	H
		5449.84	40.93	-13.07	54	30.06	34.83	11.2	35.16	101	95	A	H
	*	5580	110.01	-	-	98.84	35	11.35	35.18	101	95	P	H
	*	5580	102.15	-	-	90.98	35	11.35	35.18	101	95	A	H
		5760.59	50.49	-17.71	68.2	38.92	35.26	11.53	35.22	101	95	P	H
		5351.2	49.27	-24.73	74	38.59	34.69	11.14	35.15	199	71	P	V
		5461.36	49.66	-18.54	68.2	38.74	34.83	11.25	35.16	199	71	P	V
		5457.76	41.47	-12.53	54	30.6	34.83	11.2	35.16	199	71	A	V
	*	5580	113.83	-	-	102.66	35	11.35	35.18	199	71	P	V
	*	5580	104.53	-	-	93.36	35	11.35	35.18	199	71	A	V
		5743.265	51.19	-17.01	68.2	39.63	35.24	11.53	35.21	199	71	P	V



	*	5700	107.3	-	-	95.87	35.17	11.46	35.2	100	354	P	H
802.11a CH 140 5700MHz	*	5700	99.72	-	-	88.29	35.17	11.46	35.2	100	354	A	H
		5725	65.3	-2.9	68.2	53.79	35.21	11.5	35.2	100	354	P	H
													H
													H
													H
	*	5700	110.84	-	-	99.41	35.17	11.46	35.2	224	70	P	V
	*	5700	103.53	-	-	92.1	35.17	11.46	35.2	224	70	A	V
		5727	66.24	-1.96	68.2	54.73	35.21	11.5	35.2	224	70	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	43.96	-30.04	74	47.2	37.9	17.46	58.6	100	0	P	H
		16500	46.79	-21.41	68.2	40.58	41.8	20.51	56.1	100	0	P	H
													H
													H
		11000	44.1	-29.9	74	47.34	37.9	17.46	58.6	100	0	P	V
		16500	46.55	-21.65	68.2	40.34	41.8	20.51	56.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.13	-28.87	74	47.43	38.07	17.8	58.17	100	0	P	H
		16740	49.19	-19.01	68.2	42.52	41.94	20.69	55.96	100	0	P	H
													H
													H
		11160	45.72	-28.28	74	48.02	38.07	17.8	58.17	100	0	P	V
		16740	50.43	-17.77	68.2	43.76	41.94	20.69	55.96	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	44.37	-29.63	74	45.61	38.3	18.02	57.56	100	0	P	H
		17100	47.95	-20.25	68.2	40.74	41.96	21.05	55.8	100	0	P	H
													H
													H
		11400	44.53	-29.47	74	45.77	38.3	18.02	57.56	100	0	P	V
		17100	48.37	-19.83	68.2	41.16	41.96	21.05	55.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 100 5500MHz		5459.92	57.05	-16.95	74	46.18	34.83	11.2	35.16	100	339	P	H
		5466.8	58.45	-9.75	68.2	47.51	34.85	11.25	35.16	100	339	P	H
		5459.6	47.07	-6.93	54	36.2	34.83	11.2	35.16	100	339	A	H
	*	5500	104.64	-	-	93.65	34.9	11.25	35.16	100	339	P	H
	*	5500	97.41	-	-	86.42	34.9	11.25	35.16	100	339	A	H
													H
		5458.64	63.21	-10.79	74	52.34	34.83	11.2	35.16	213	127	P	V
		5468.56	66.39	-1.81	68.2	55.45	34.85	11.25	35.16	213	127	P	V
		5458.32	49.64	-4.36	54	38.77	34.83	11.2	35.16	213	127	A	V
	*	5500	107.39	-	-	96.4	34.9	11.25	35.16	213	127	P	V
	*	5500	101.45	-	-	90.46	34.9	11.25	35.16	213	127	A	V
													V
802.11n HT20 CH 116 5580MHz		5433.52	48.97	-25.03	74	38.12	34.81	11.2	35.16	100	94	P	H
		5468.56	47.44	-20.76	68.2	36.5	34.85	11.25	35.16	100	94	P	H
		5459.92	40.83	-13.17	54	29.96	34.83	11.2	35.16	100	94	A	H
	*	5580	107.57	-	-	96.4	35	11.35	35.18	100	94	P	H
	*	5580	100.75	-	-	89.58	35	11.35	35.18	100	94	A	H
		5736.65	49.59	-18.61	68.2	38.06	35.24	11.5	35.21	100	94	P	H
		5458.96	48.9	-25.1	74	38.03	34.83	11.2	35.16	200	96	P	V
		5468.8	49.66	-18.54	68.2	38.72	34.85	11.25	35.16	200	96	P	V
		5459.2	41.05	-12.95	54	30.18	34.83	11.2	35.16	200	96	A	V
	*	5580	111.46	-	-	100.29	35	11.35	35.18	200	96	P	V
	*	5580	103.41	-	-	92.24	35	11.35	35.18	200	96	A	V
		5734.445	50.62	-17.58	68.2	39.12	35.21	11.5	35.21	200	96	P	V



802.11n HT20 CH 140 5700MHz	*	5700	106.16	-	-	94.73	35.17	11.46	35.2	193	126	P	H
	*	5700	98.65	-	-	87.22	35.17	11.46	35.2	193	126	A	H
		5726.44	63.21	-4.99	68.2	51.7	35.21	11.5	35.2	193	126	P	H
													H
													H
													H
	*	5700	109.85	-	-	98.42	35.17	11.46	35.2	215	105	P	V
	*	5700	102.45	-	-	91.02	35.17	11.46	35.2	215	105	A	V
		5725.24	66.7	-1.5	68.2	55.19	35.21	11.5	35.2	215	105	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 100 5500MHz		11000	43.93	-30.07	74	47.17	37.9	17.46	58.6	100	0	P	H
		16500	46.98	-21.22	68.2	40.77	41.8	20.51	56.1	100	0	P	H
													H
													H
		11000	45.15	-28.85	74	48.39	37.9	17.46	58.6	100	0	P	V
		16500	46.69	-21.51	68.2	40.48	41.8	20.51	56.1	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	44.71	-29.29	74	47.01	38.07	17.8	58.17	100	0	P	H
		16740	49.48	-18.72	68.2	42.81	41.94	20.69	55.96	100	0	P	H
													H
													H
		11160	47.35	-26.65	74	49.65	38.07	17.8	58.17	100	0	P	V
		16740	49.88	-18.32	68.2	43.21	41.94	20.69	55.96	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	44.1	-29.9	74	45.34	38.3	18.02	57.56	100	0	P	H
		17100	48.55	-19.65	68.2	41.34	41.96	21.05	55.8	100	0	P	H
													H
													H
		11400	44.28	-29.72	74	45.52	38.3	18.02	57.56	100	0	P	V
		17100	48.32	-19.88	68.2	41.11	41.96	21.05	55.8	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	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 102 5510MHz		5458.96	54.41	-19.59	74	43.54	34.83	11.2	35.16	198	54	P	H
		5466.64	59.47	-8.73	68.2	48.53	34.85	11.25	35.16	198	54	P	H
		5459.44	48.33	-5.67	54	37.46	34.83	11.2	35.16	198	54	A	H
	*	5510	100.17	-	-	89.14	34.9	11.3	35.17	198	54	P	H
	*	5510	93.98	-	-	82.95	34.9	11.3	35.17	198	54	A	H
		5741.375	49.4	-18.8	68.2	37.84	35.24	11.53	35.21	198	54	P	H
		5453.68	62.13	-11.87	74	51.26	34.83	11.2	35.16	209	128	P	V
		5466.16	63.41	-4.79	68.2	52.47	34.85	11.25	35.16	209	128	P	V
		5458.96	52.17	-1.83	54	41.3	34.83	11.2	35.16	209	128	P	V
	*	5510	101.93	-	-	90.9	34.9	11.3	35.17	209	128	P	V
	*	5510	95.05	-	-	84.02	34.9	11.3	35.17	209	128	A	V
		5747.675	50.7	-17.5	68.2	39.14	35.24	11.53	35.21	209	128	P	V
802.11n HT40 CH 110 5550MHz		5454.64	60.4	-13.6	74	49.53	34.83	11.2	35.16	101	56	P	H
		5469.28	60.58	-7.62	68.2	49.64	34.85	11.25	35.16	101	56	P	H
		5459.92	50.47	-3.53	54	39.6	34.83	11.2	35.16	101	56	A	H
	*	5550	104.77	-	-	93.62	34.97	11.35	35.17	101	56	P	H
	*	5550	97.82	-	-	86.67	34.97	11.35	35.17	101	56	A	H
		5760.59	49.72	-18.48	68.2	38.15	35.26	11.53	35.22	101	56	P	H
		5458.48	61.18	-12.82	74	50.31	34.83	11.2	35.16	212	130	P	V
		5468.32	64.23	-3.97	68.2	53.29	34.85	11.25	35.16	212	130	P	V
		5459.92	52.96	-1.04	54	42.09	34.83	11.2	35.16	212	130	A	V
	*	5550	107.03	-	-	95.88	34.97	11.35	35.17	212	130	P	V
	*	5550	100.99	-	-	89.84	34.97	11.35	35.17	212	130	A	V
		5728.46	49.54	-18.66	68.2	38.03	35.21	11.5	35.2	212	130	P	V



		5411.6	49.02	-24.98	74	38.25	34.78	11.15	35.16	101	355	P	H
		5467.25	47.52	-20.68	68.2	36.58	34.85	11.25	35.16	101	355	P	H
		5454.65	40.59	-13.41	54	29.72	34.83	11.2	35.16	101	355	A	H
	*	5670	103.66	-	-	92.25	35.14	11.46	35.19	101	355	P	H
	*	5670	96.79	-	-	85.38	35.14	11.46	35.19	101	355	A	H
	HT40	5725.1	62.58	-5.62	68.2	51.07	35.21	11.5	35.2	101	355	P	H
	CH 134	5399.7	48.92	-25.08	74	38.17	34.76	11.15	35.16	210	62	P	V
	5670MHz	5469	48.19	-20.01	68.2	37.25	34.85	11.25	35.16	210	62	P	V
		5457.45	41.09	-12.91	54	30.22	34.83	11.2	35.16	210	62	A	V
	*	5670	106.76	-	-	95.35	35.14	11.46	35.19	210	62	P	V
	*	5670	99.62	-	-	88.21	35.14	11.46	35.19	210	62	A	V
		5732.275	67.06	-1.14	68.2	55.56	35.21	11.5	35.21	210	62	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		34.32	21.63	-18.37	40	29.67	22.57	1.21	31.82	-	-	P	H
		94.8	25.62	-17.88	43.5	40.5	15.21	1.66	31.75	-	-	P	H
		197.4	25.41	-18.09	43.5	39.93	14.88	2.28	31.68	-	-	P	H
		383.3	28.96	-17.04	46	36.29	21.05	3.26	31.64	-	-	P	H
		422.5	37.67	-8.33	46	43.23	22.61	3.48	31.65	100	0	P	H
		958.7	34.38	-11.62	46	29.39	30.8	5.03	30.84	-	-	P	H
													H
													H
													H
													H
													H
													H
													V
													V
													V
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													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against limit line.											

**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dB μ V/m)
 $= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$
 $= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$
 $= 55.45 (\text{dB}\mu\text{V}/\text{m})$
2. Over Limit(dB)
 $= \text{Level(dB}\mu\text{V}/\text{m)} - \text{Limit Line(dB}\mu\text{V}/\text{m)}$
 $= 55.45(\text{dB}\mu\text{V}/\text{m}) - 74(\text{dB}\mu\text{V}/\text{m})$
 $= -18.55(\text{dB})$

For Average Limit @ 2390MHz:

1. Level(dB μ V/m)
 $= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$
 $= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$
 $= 43.54 (\text{dB}\mu\text{V}/\text{m})$
2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)
 $= 43.54(\text{dB}\mu\text{V}/\text{m}) - 54(\text{dB}\mu\text{V}/\text{m})$
 $= -10.46(\text{dB})$

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



Appendix D. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Lance Chiang	Temperature :	22~24°C
		Relative Humidity :	50~54%

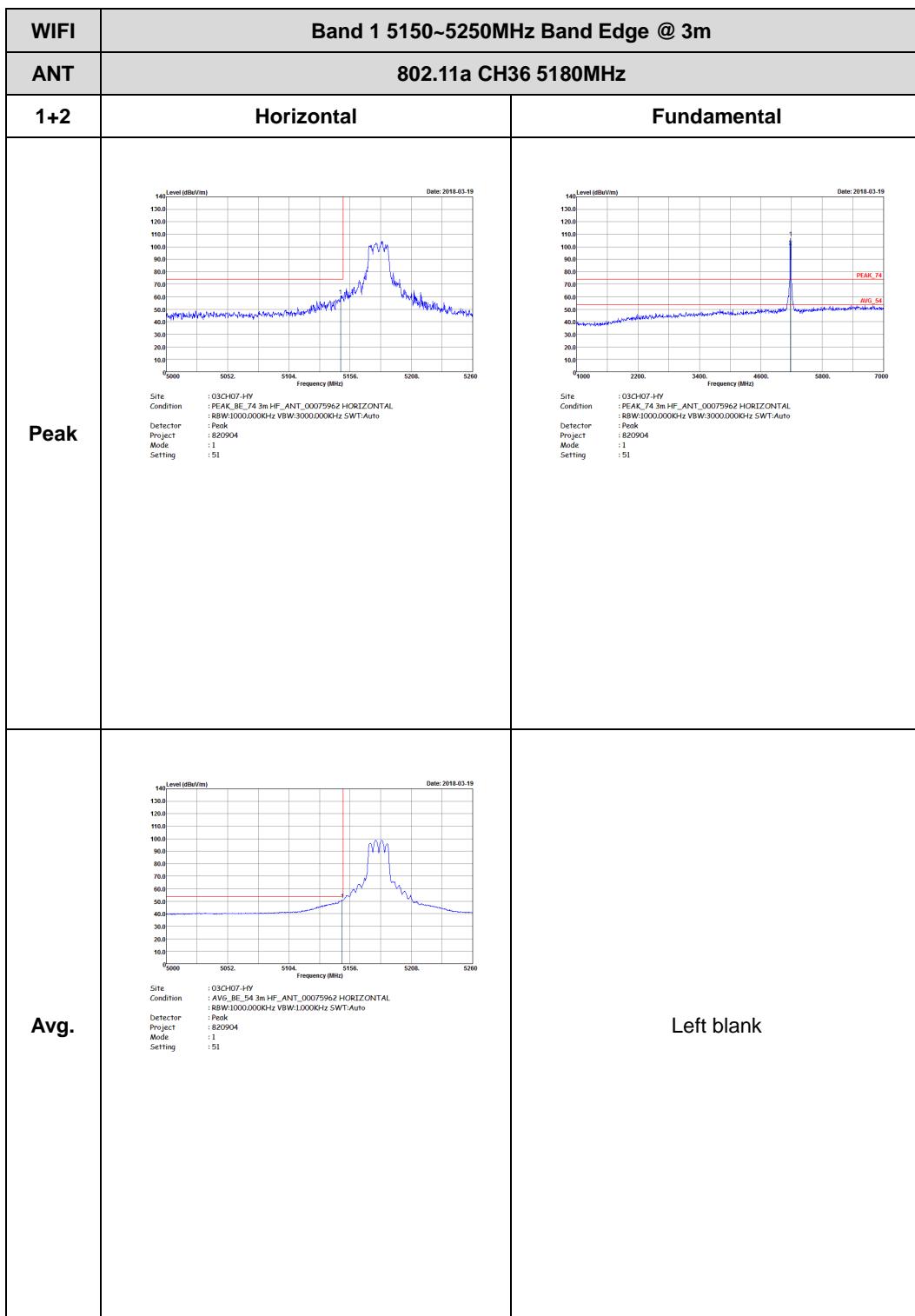
Note symbol

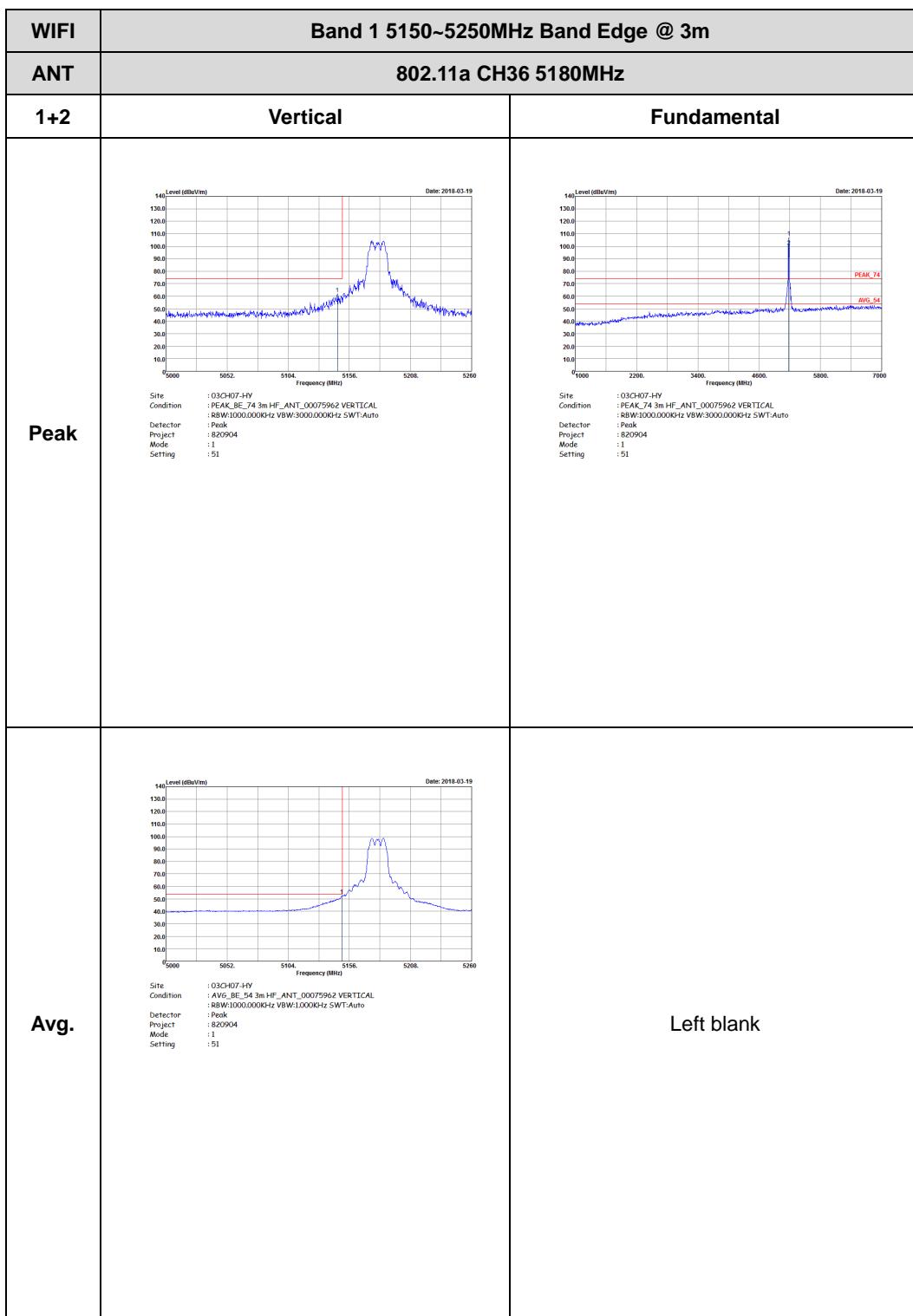
-L	Low channel location
-R	High channel location

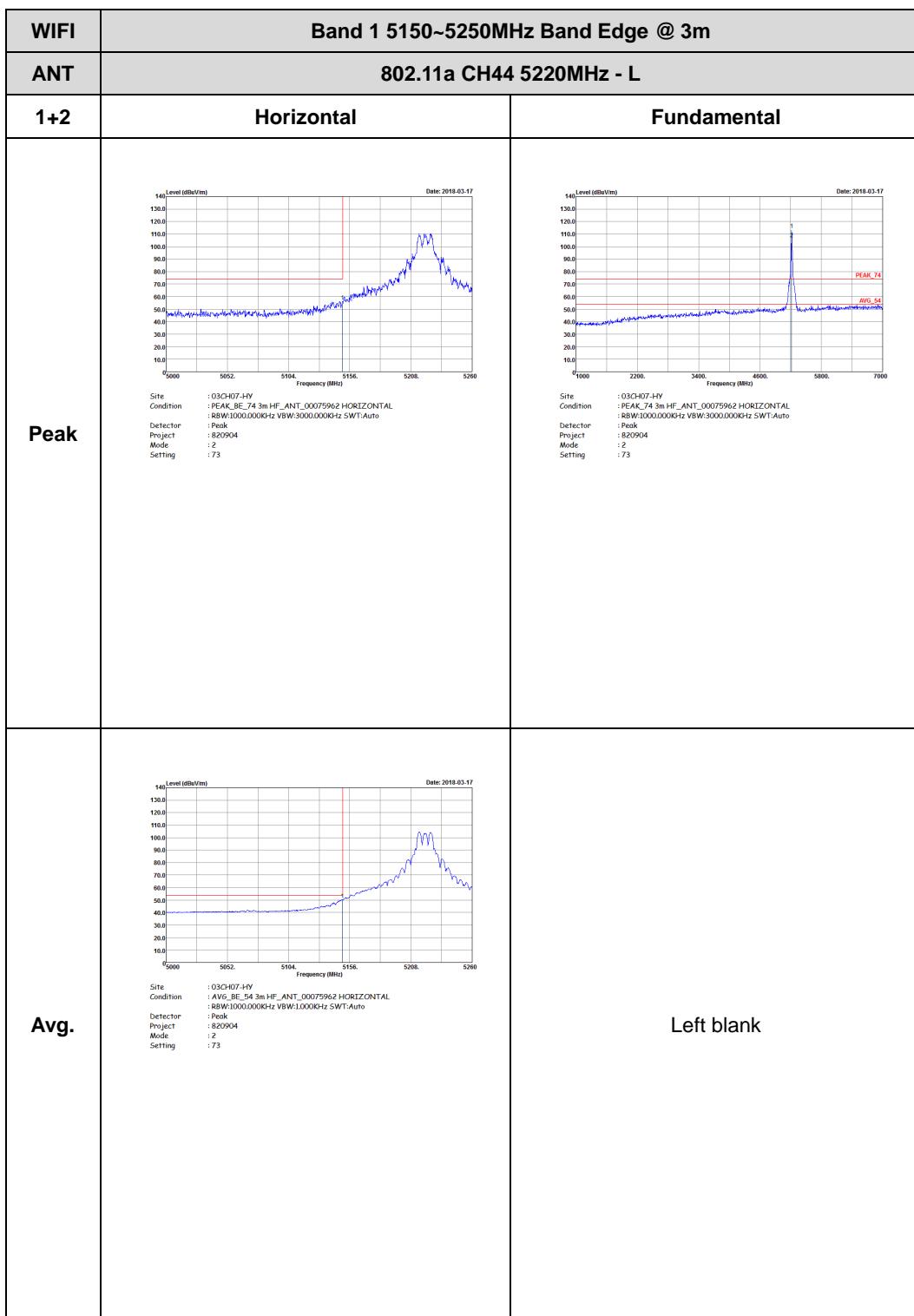


Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

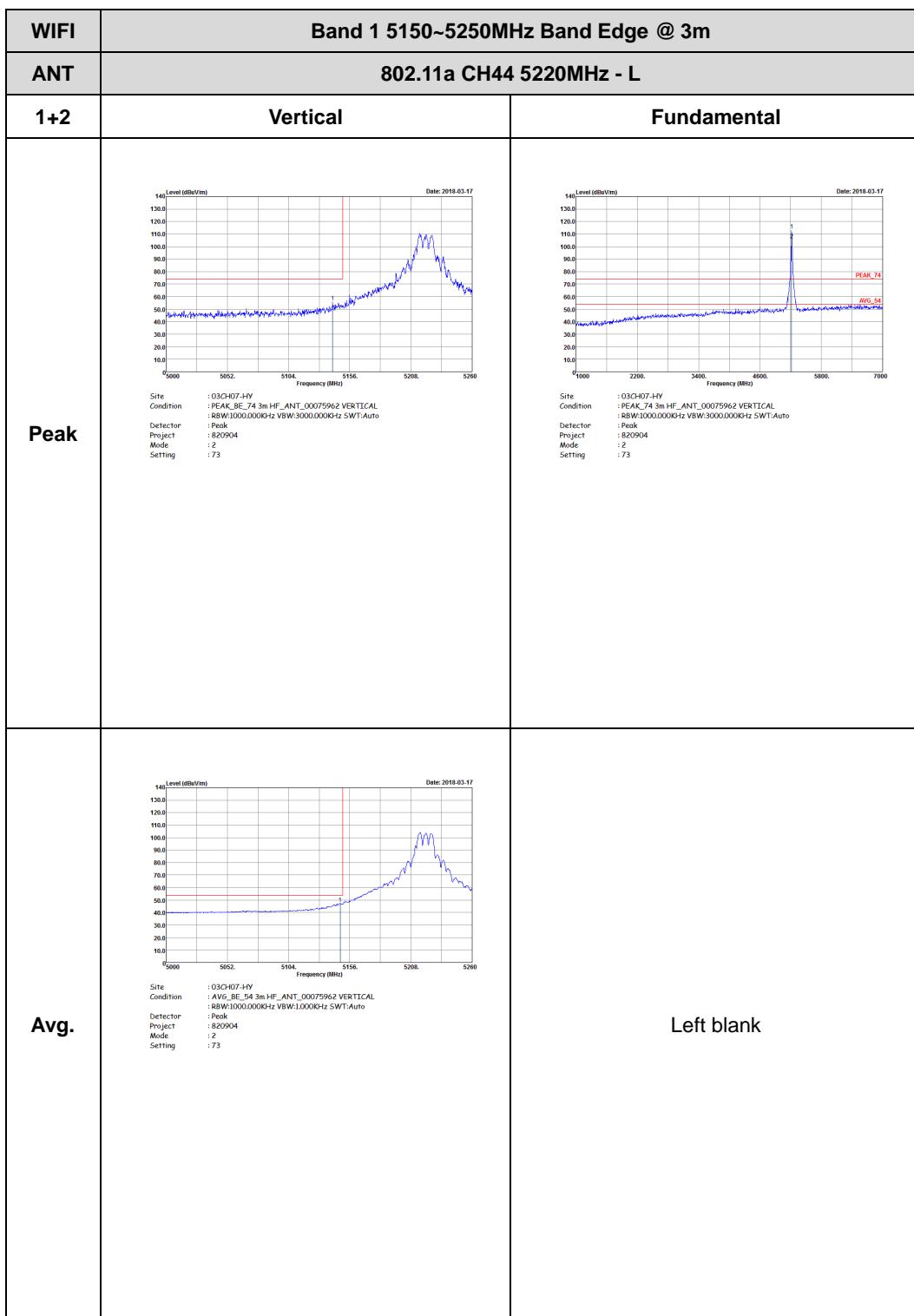






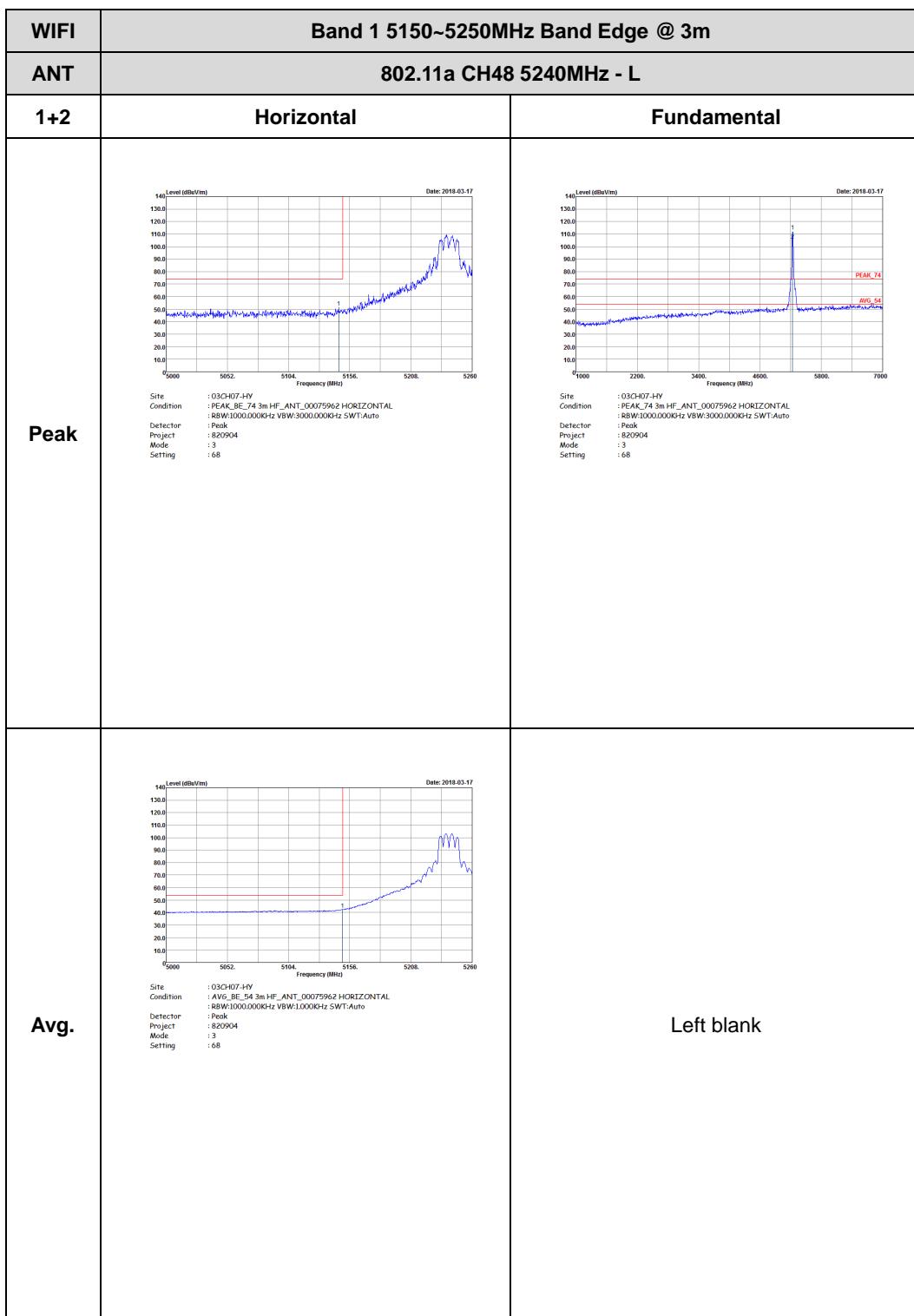


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-17 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 2 Setting: 73	Left blank
Avg.	 Date: 2018-03-17 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 2 Setting: 73	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-17 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 2 Setting: 73	Left blank
Avg.	 Date: 2018-03-17 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 2 Setting: 73	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-17 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 3 Setting: 68	Left blank
Avg.	 Date: 2018-03-17 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 3 Setting: 68	Left blank



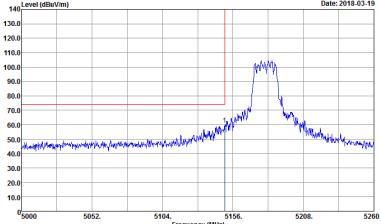
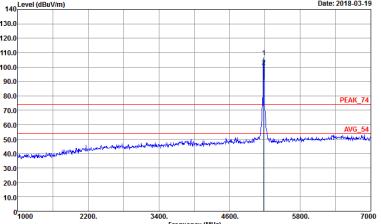
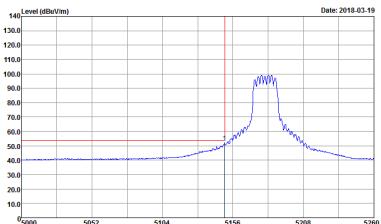
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : 3 Setting : 68	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000GHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : 3 Setting : 68
Avg.	 Site : AVG_BE_54 3m HF_ANL_00075962 VERTICAL Condition : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 3 Setting : 68	Left blank

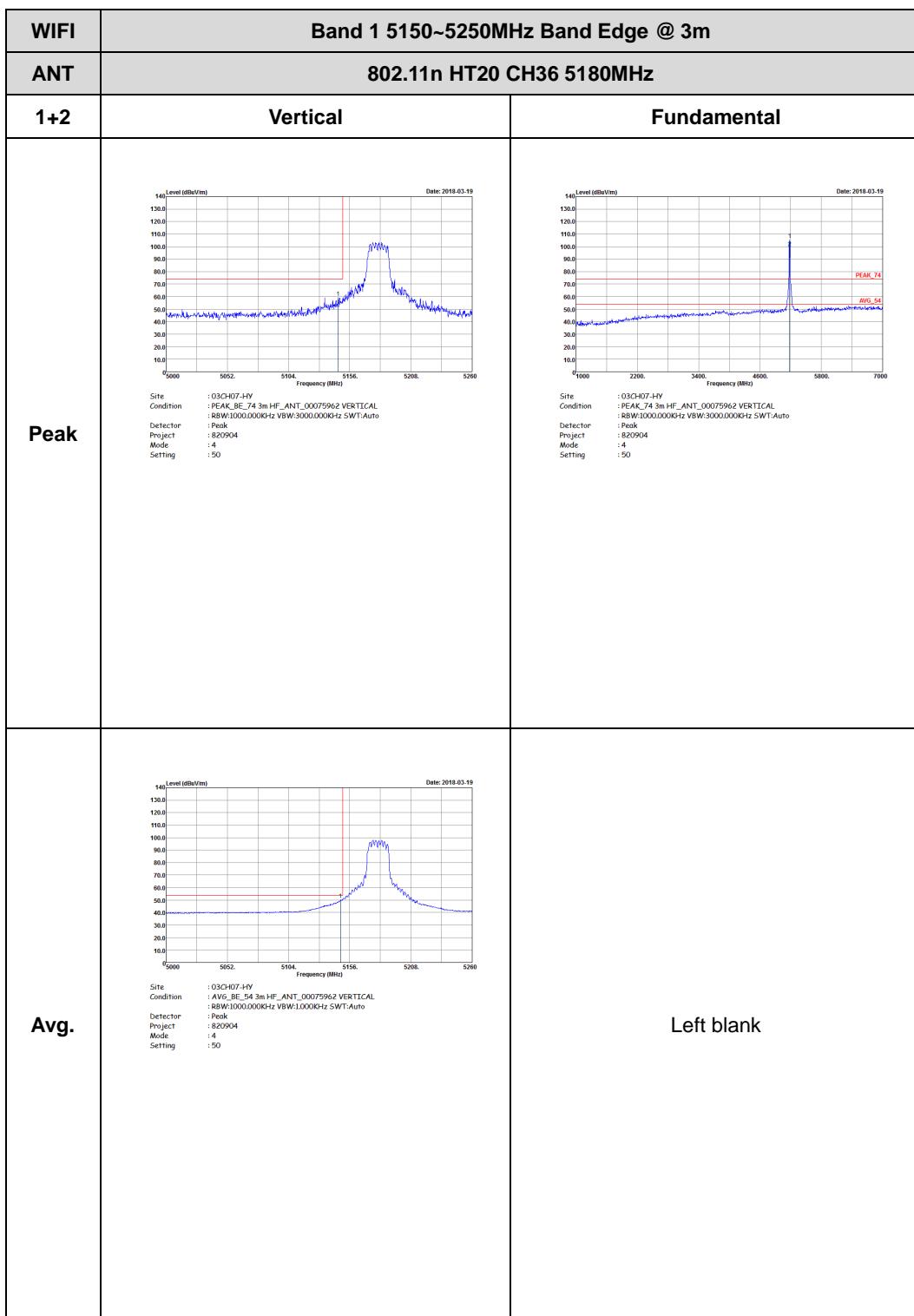


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-17 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 3 Setting: 68	Left blank
Avg.	 Date: 2018-03-17 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 3 Setting: 68	Left blank



Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) Date: 2018-03-19 5000 5052 5104 5156 5208 5260 Frequency (MHz) Site: 03C407-HY Condition: PEAK_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 4 Setting: 50</p>	 <p>Level (dBuV/m) Date: 2018-03-19 1000 2200 3400 4600 5800 Frequency (MHz) Site: 03C407-HY Condition: PEAK_74 3m HF,_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 4 Setting: 50 PEAK_74 AVG_54</p>
Avg.	 <p>Level (dBuV/m) Date: 2018-03-19 5000 5052 5104 5156 5208 5260 Frequency (MHz) Site: 03C407-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 4 Setting: 50</p>	Left blank

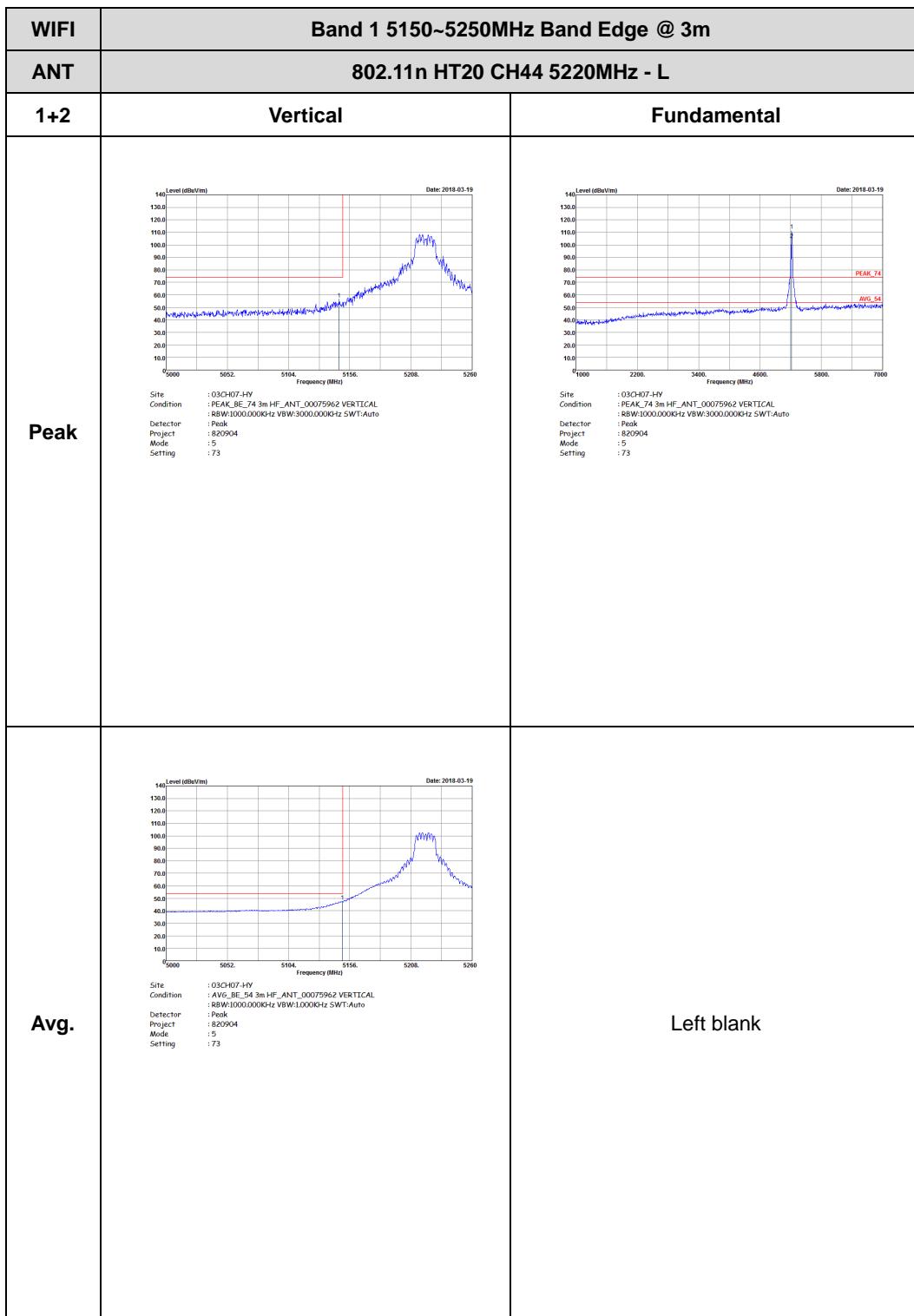




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANL_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : 5 Setting : 73	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANL_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : 5 Setting : 73
Avg.	 Site : AVG_BE_54 3m HF_ANL_00075962 HORIZONTAL Condition : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 5 Setting : 73	Left blank

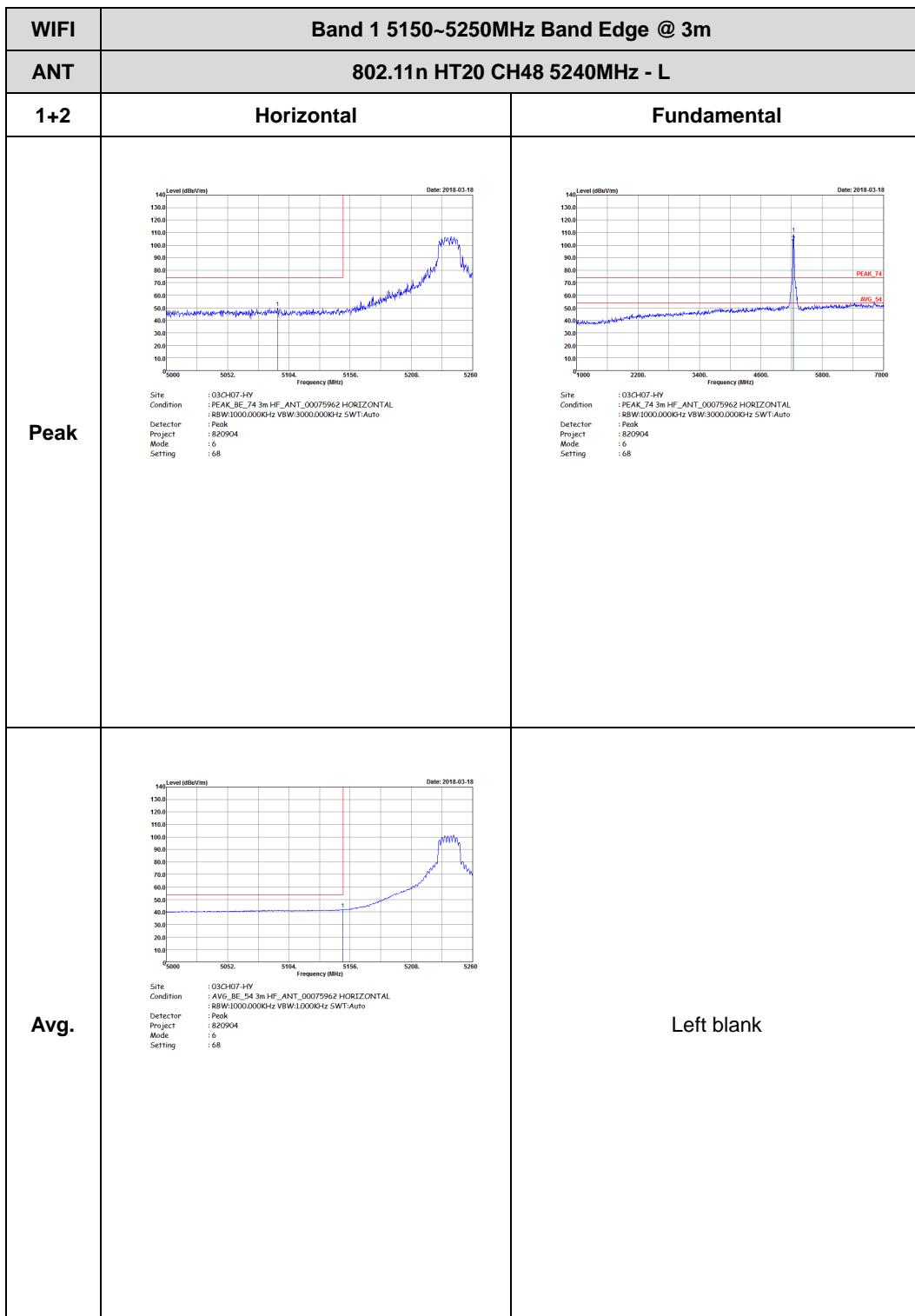


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-19 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 5 Setting: 73	Left blank
Avg.	 Date: 2018-03-19 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 5 Setting: 73	Left blank



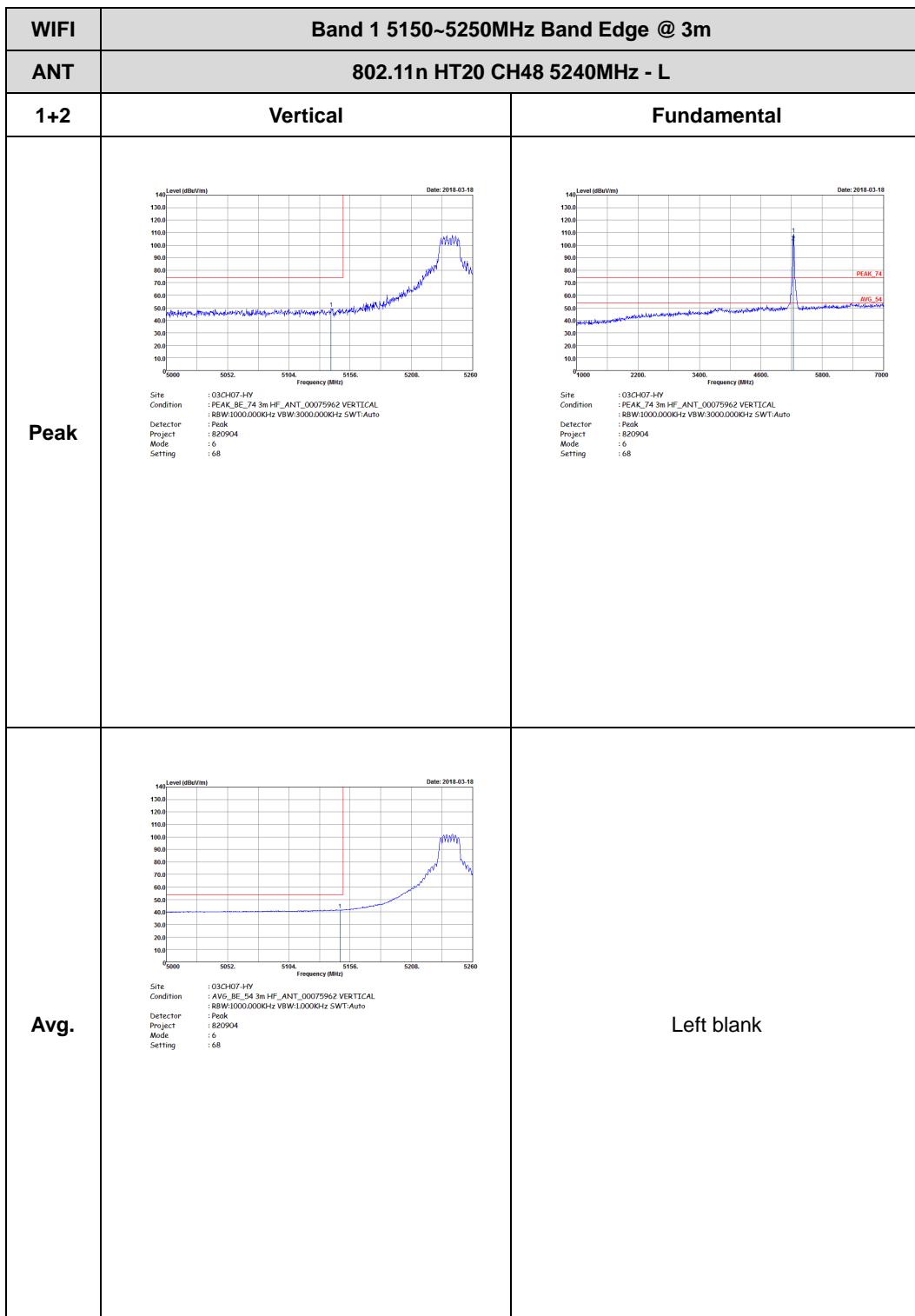


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-19 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 5 Setting: 73	Left blank
Avg.	 Date: 2018-03-19 Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 5 Setting: 73	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-18 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 6 Setting: 68 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-18 Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 6 Setting: 68 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank

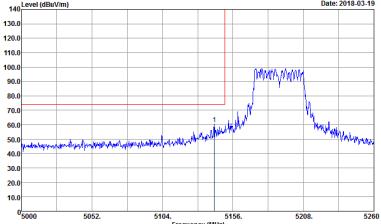
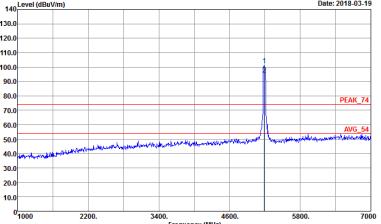
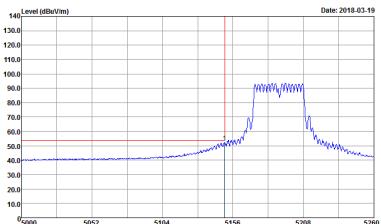




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-18 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 6 Setting: 68 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-18 Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 6 Setting: 68 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank



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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) Date: 2018-03-19 5000 5052 5104 5156 5208 5260 Frequency (MHz) Site: 03C407-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Project: 820904 Mode: 7 Setting: 42</p>	 <p>Level (dBuV/m) Date: 2018-03-19 1000 2200 3400 4600 5800 Frequency (MHz) Site: 03C407-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Project: 820904 Mode: 7 Setting: 42</p>
Avg.	 <p>Level (dBuV/m) Date: 2018-03-19 5000 5052 5104 5156 5208 5260 Frequency (MHz) Site: 03C407-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector: RBW:1000.000KHz VBW:3.000KHz SWF:Auto Project: 820904 Mode: 7 Setting: 42</p>	Left blank

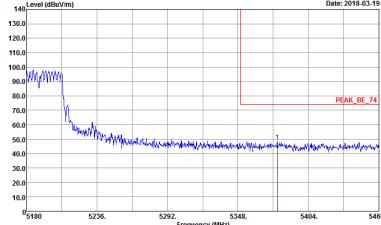
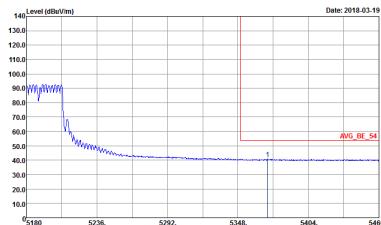


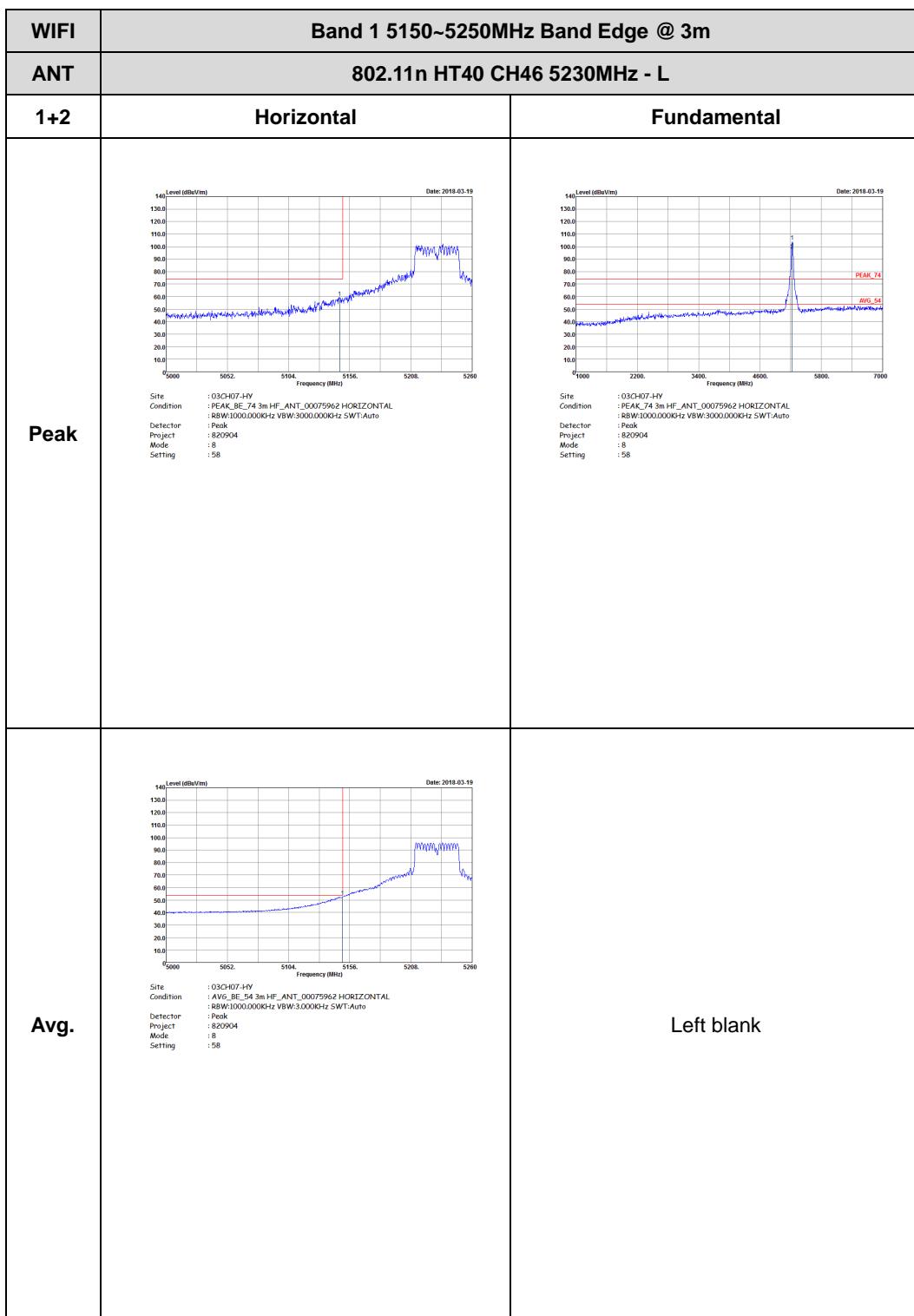
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-19 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 7 Setting: 42 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-19 Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 7 Setting: 42 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank



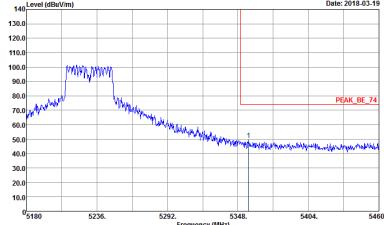
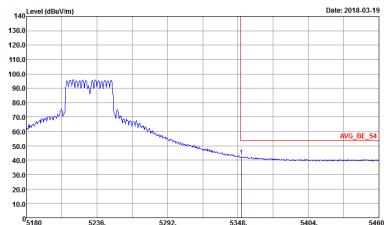
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 820904 Mode : 7 Setting : 42	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANL_00075962 VERTICAL Detector : Peak Project : 820904 Mode : 7 Setting : 42
Avg.	 Site : AVG_BE_54 3m HF_ANL_00075962 VERTICAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 7 Setting : 42	Left blank

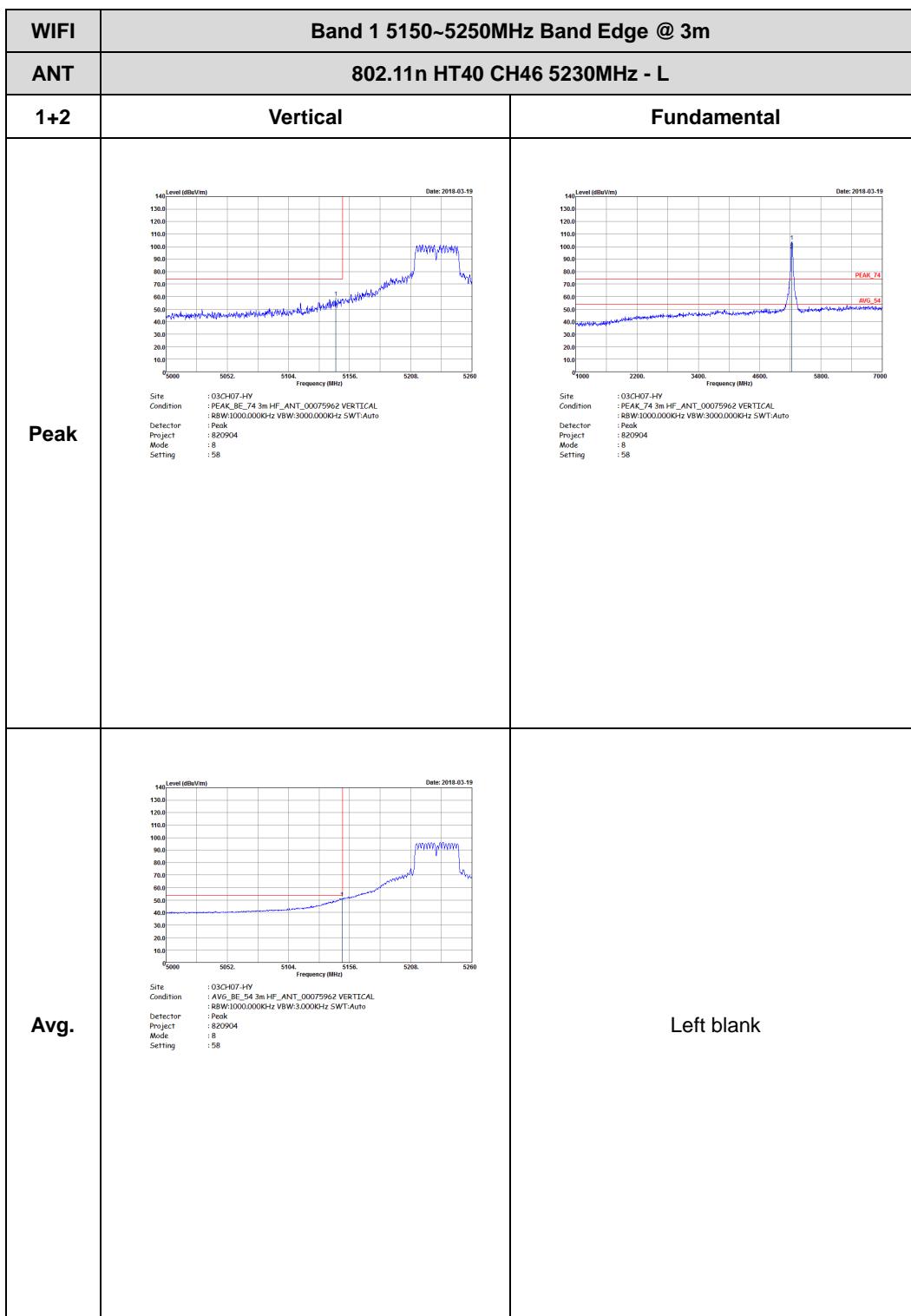


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBm/V/m) vs Frequency (MHz) from 5180 to 5460. A sharp peak is labeled PEAK_BE_74 at approximately 5190MHz.</p> <p>Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 7 Setting: 42</p>	Left blank
Avg.	 <p>Level (dBm/V/m) vs Frequency (MHz) from 5180 to 5460. A broad emission is labeled AVG_BE_54 at approximately 5190MHz.</p> <p>Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 7 Setting: 42</p>	Left blank





WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Site : 03CH07-HY Condition : PCAC_BE_74 3m HF_ANL_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 58</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANL_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 58</p>	Left blank



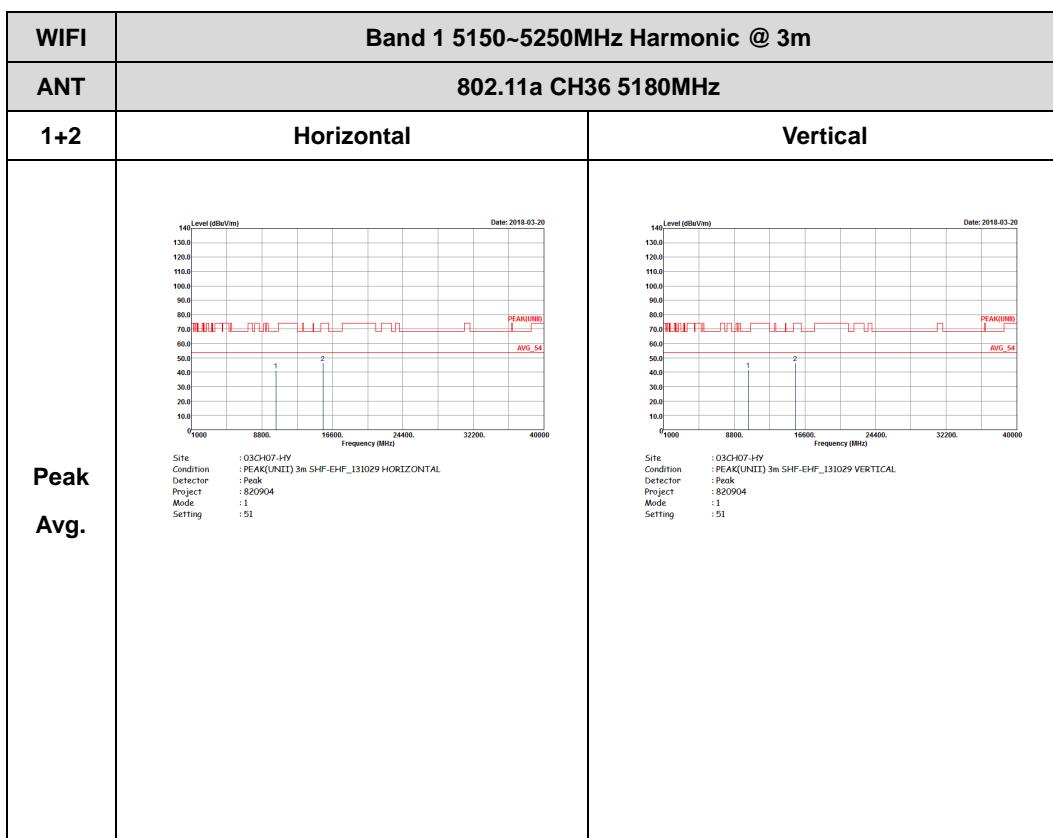


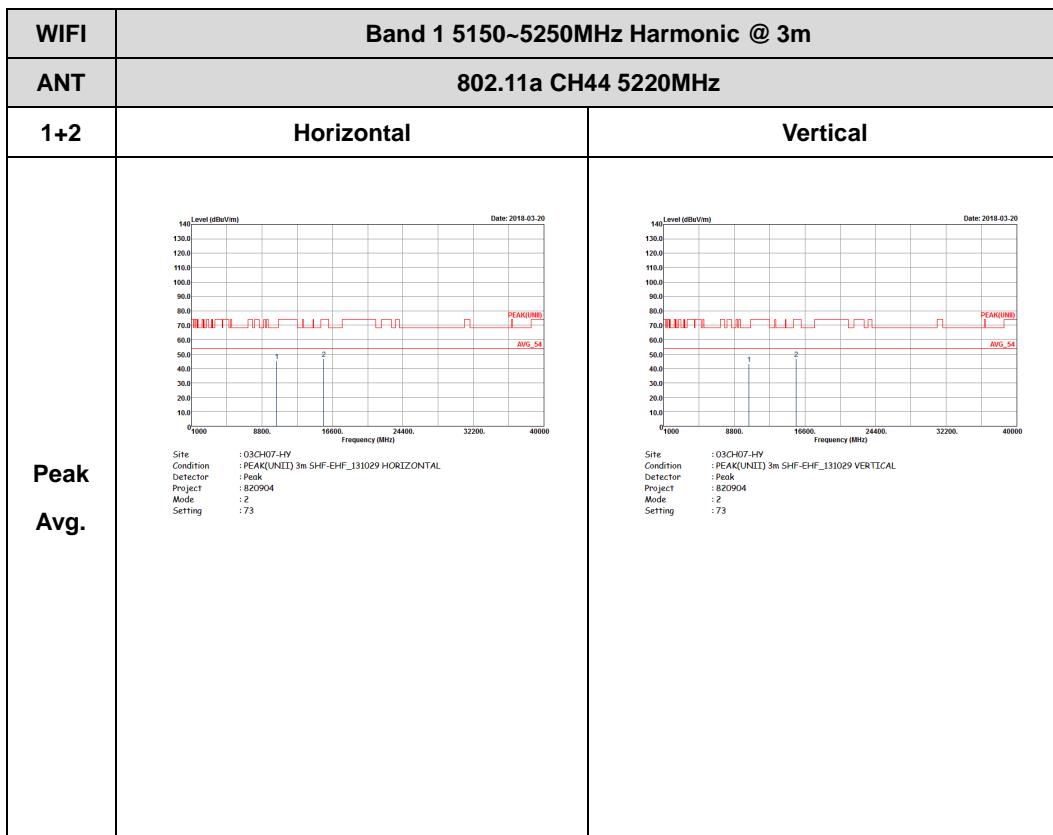
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-19 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 8 Setting: 58 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-19 Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector: R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 8 Setting: 58 Frequency (MHz) 5180 5236 5292 5348 5404 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank

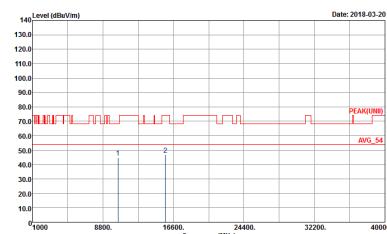
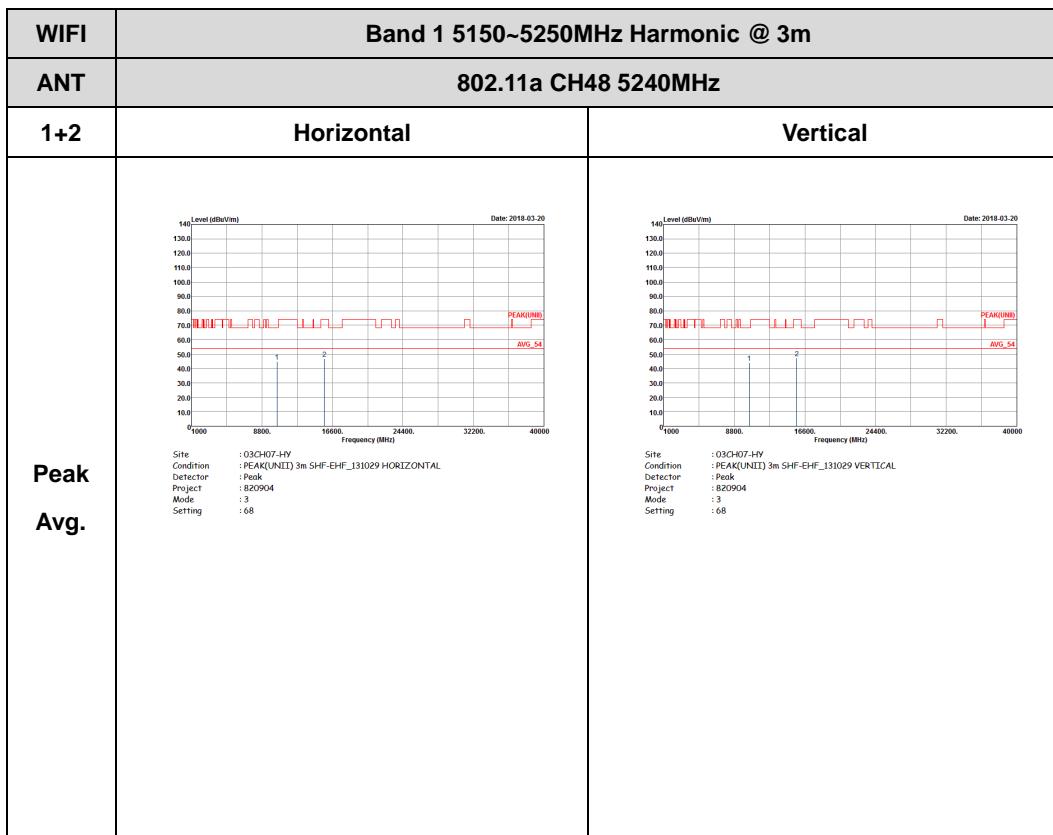


Band 1 - 5150~5250MHz

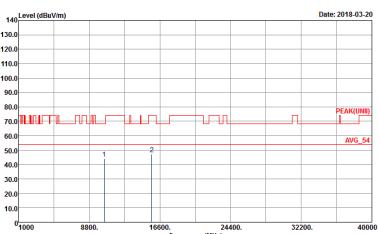
WIFI 802.11a (Harmonic @ 3m)







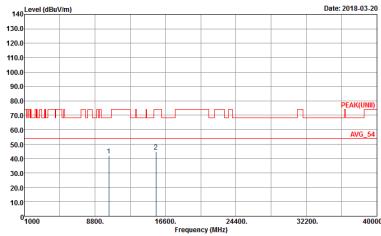
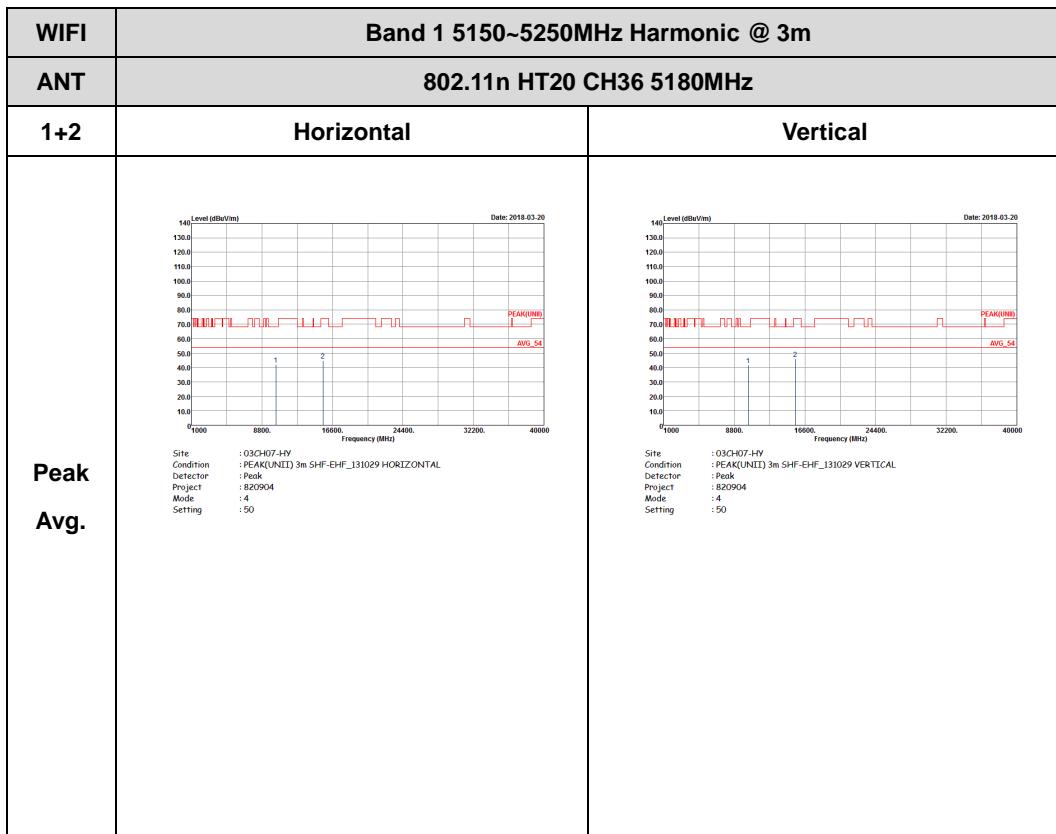
Site : 03G107-HY
Condition : FCC40(UNII) 3m SHF-EHF_131029 HORIZONTAL
Detector : Peak
Project : 820904
Mode : 3
Setting : 68



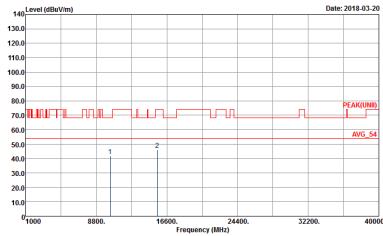
Site : 03G107-HY
Condition : FCC40(UNII) 3m SHF-EHF_131029 VERTICAL
Detector : Peak
Project : 820904
Mode : 3
Setting : 68



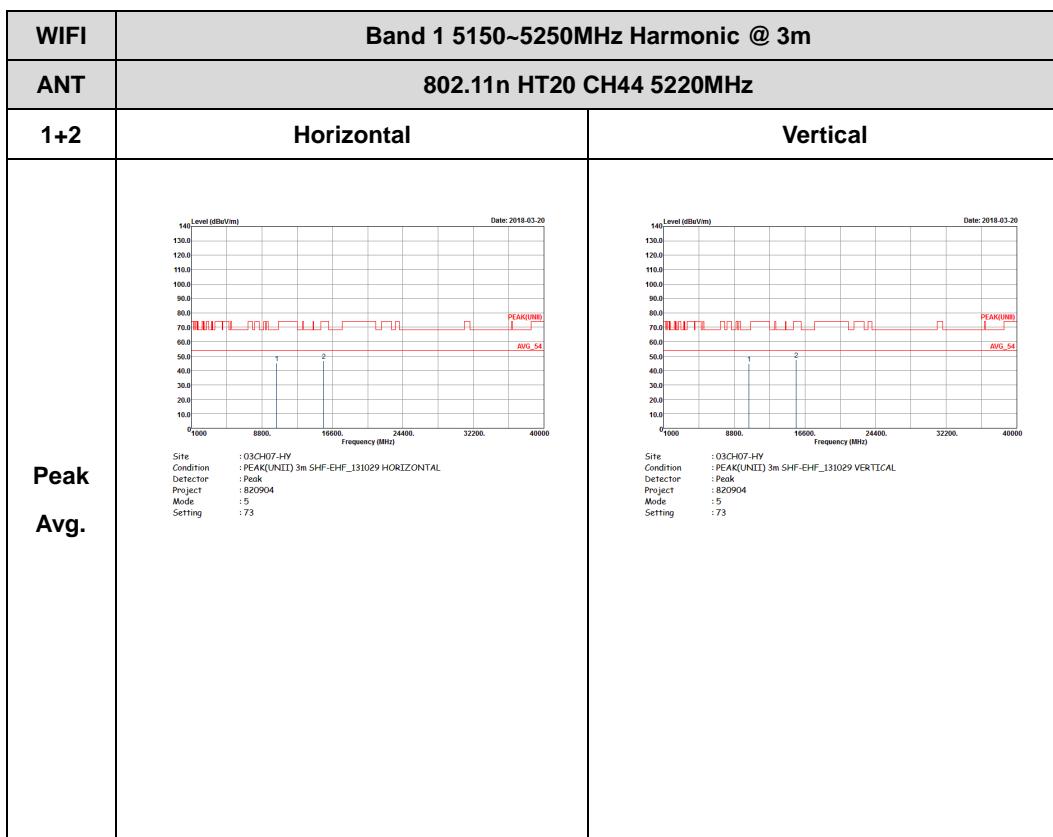
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

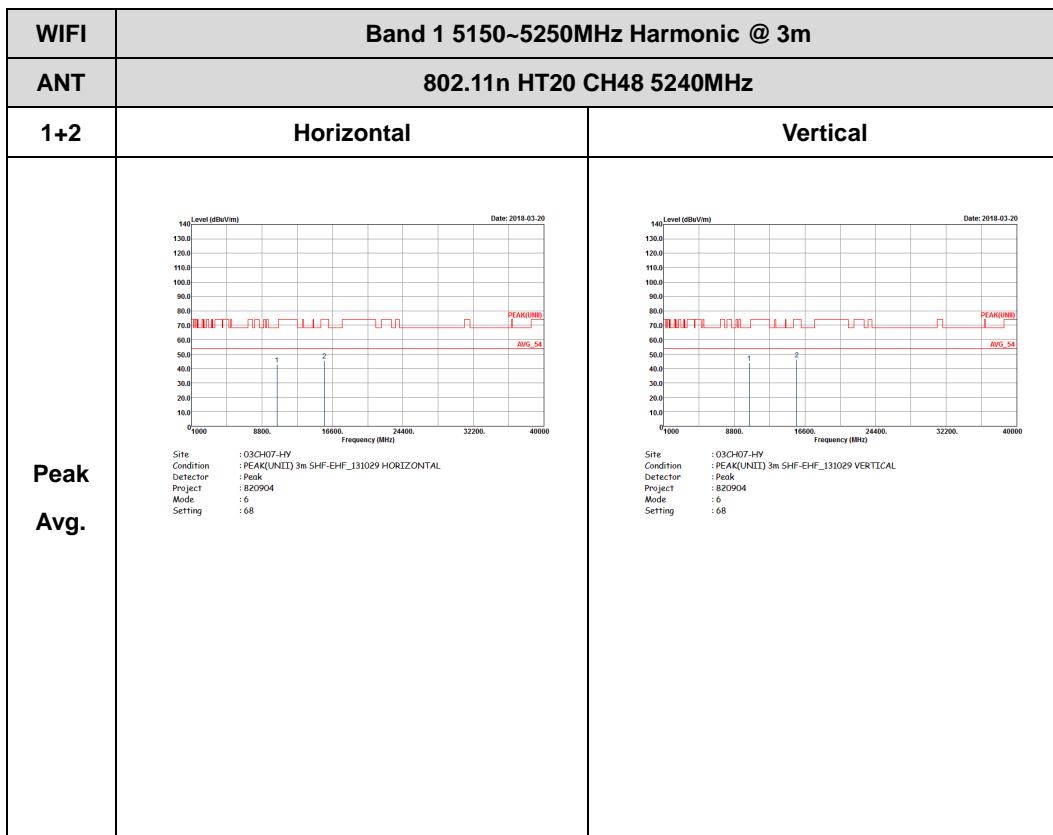


Site : 03CH07-HY
Condition : PEAK(UNI) 3m SHF-EHF_131029 HORIZONTAL
Detector : Peak
Project : B20904
Mod. : 4
Setting : 50



Site : 03CH07-HY
Condition : PEAK(UNI) 3m SHF-EHF_131029 VERTICAL
Detector : Peak
Project : B20904
Mod. : 4
Setting : 50

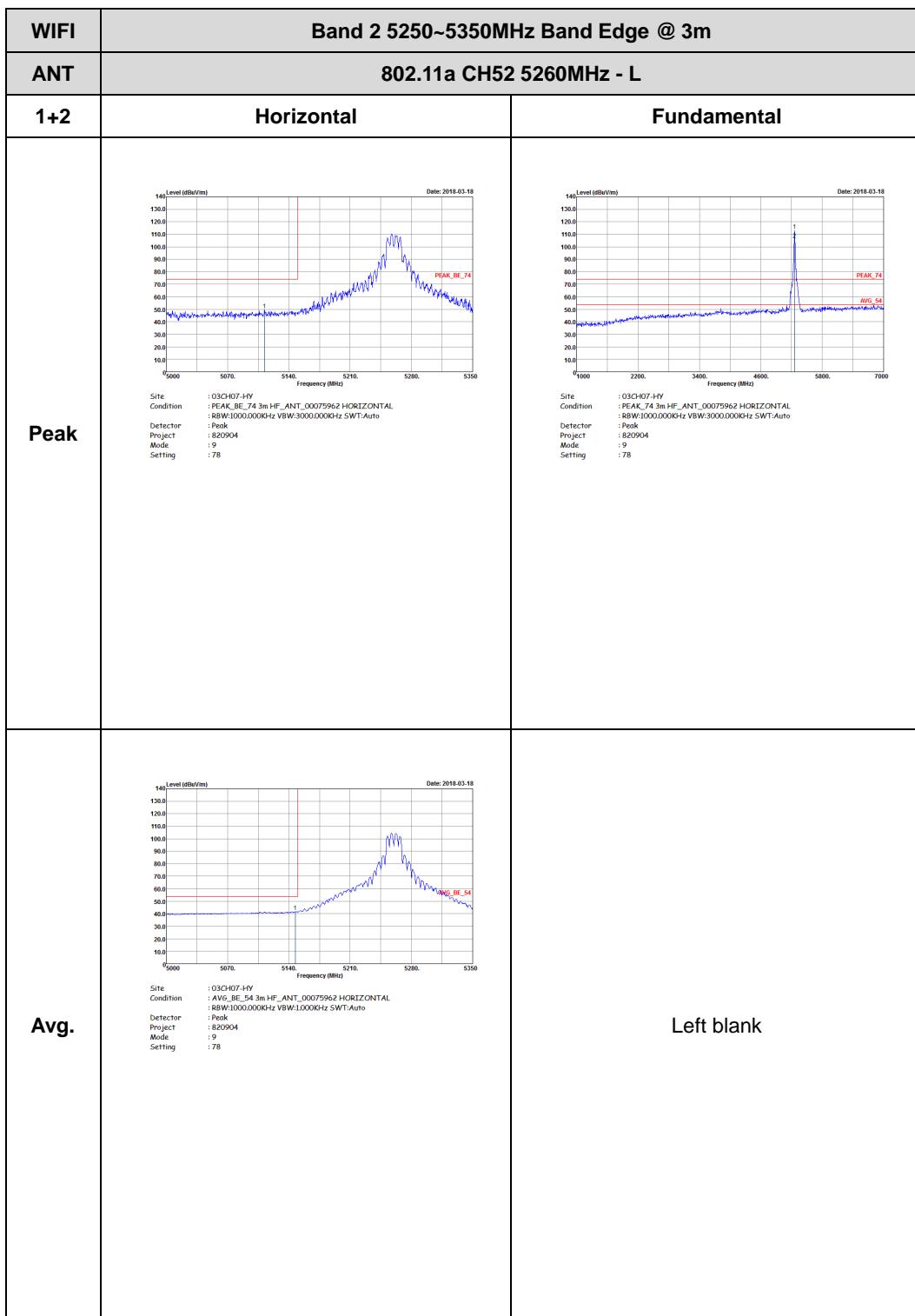






Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)





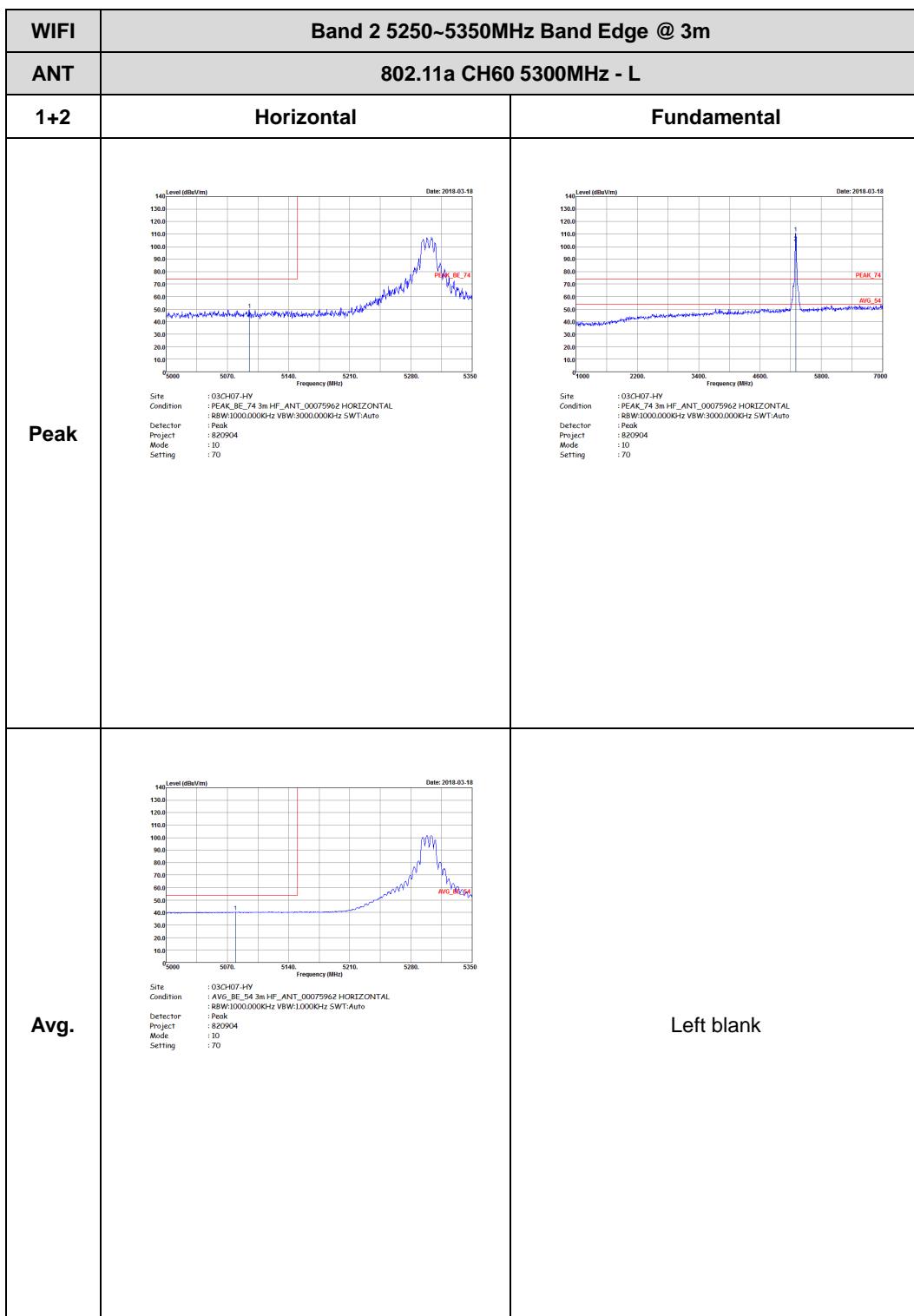
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 9 Setting: 78</p>	Left blank
Avg.	<p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>AVG_BE_54</p> <p>Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 9 Setting: 78</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PCNA, BE_74 3m HF_, ANT_00075962 VERTICAL Detector : R8W;1000.000KHz VBW;3000.000KHz SWT;Auto Project : 820904 Mode : 9 Setting : 78</p>	<p>Site : 03CH07-HY Condition : PCNA, 74 3m HF_, ANT_00075962 VERTICAL Detector : R8W;1000.000GHz VBW;3000.000Hz SWT;Auto Project : 820904 Mode : 9 Setting : 78</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_, ANT_00075962 VERTICAL Detector : R8W;1000.000KHz VBW;1.000KHz SWT;Auto Project : 820904 Mode : 9 Setting : 78</p>	Left blank

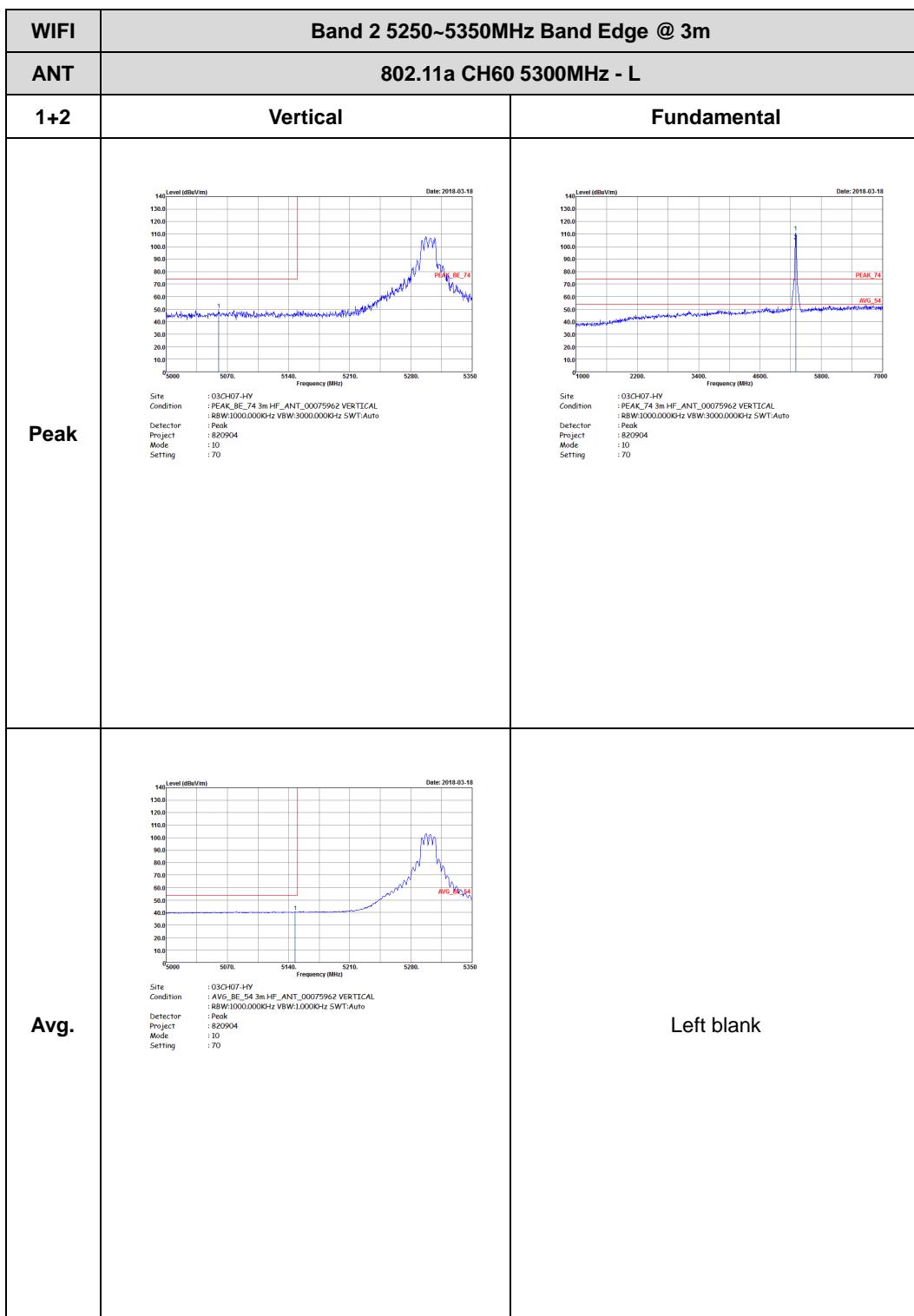


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Level (dBm/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>PEAK_BE_74</p> <p>Site: 03CH07-HY Condition: PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 9 Setting: 78</p>	Left blank
Avg.	<p>Level (dBm/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>AVG_BE_54</p> <p>Site: 03CH07-HY Condition: AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 9 Setting: 78</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-18 Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 10 Setting : 70	Left blank
Avg.	 Date: 2018-03-18 Site : 03CH07-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 10 Setting : 70	Left blank



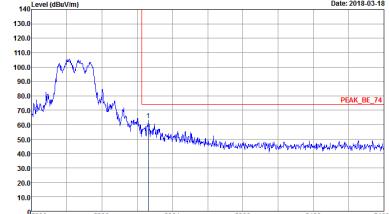
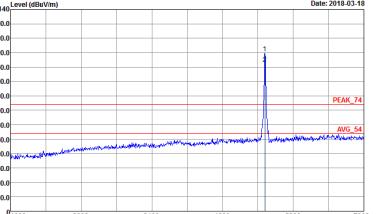


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-18 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: IO Setting: 70 Frequency (MHz) 5220 5268 5316 5364 5412 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-18 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: IO Setting: 70 Frequency (MHz) 5220 5268 5316 5364 5412 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank



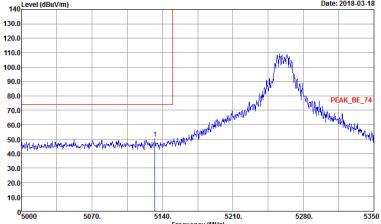
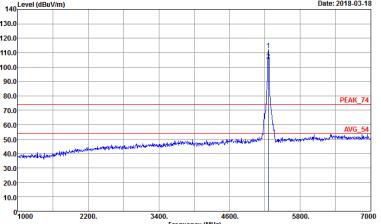
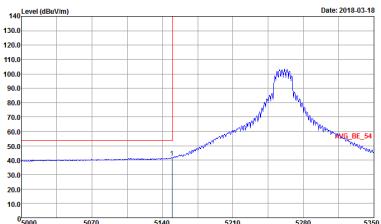
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANC_00075962 HORIZONTAL Detector : R8W/1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : II Setting : 56	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANC_00075962 HORIZONTAL Detector : R8W/1000.000GHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : II Setting : 56
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANC_00075962 HORIZONTAL Detector : R8W/1000.000KHz VBW:1.000KHz SWT:Auto Project : 820904 Mode : II Setting : 56	Left blank



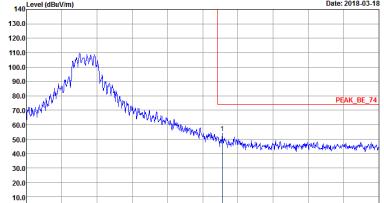
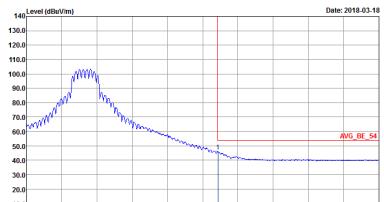
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : II Setting : 56	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000GHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : II Setting : 56
Avg.	 Site : AVG_BE_54 3m HF_ANL_00075962 VERTICAL Condition : R8W:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 820904 Mode : II Setting : 56	Left blank

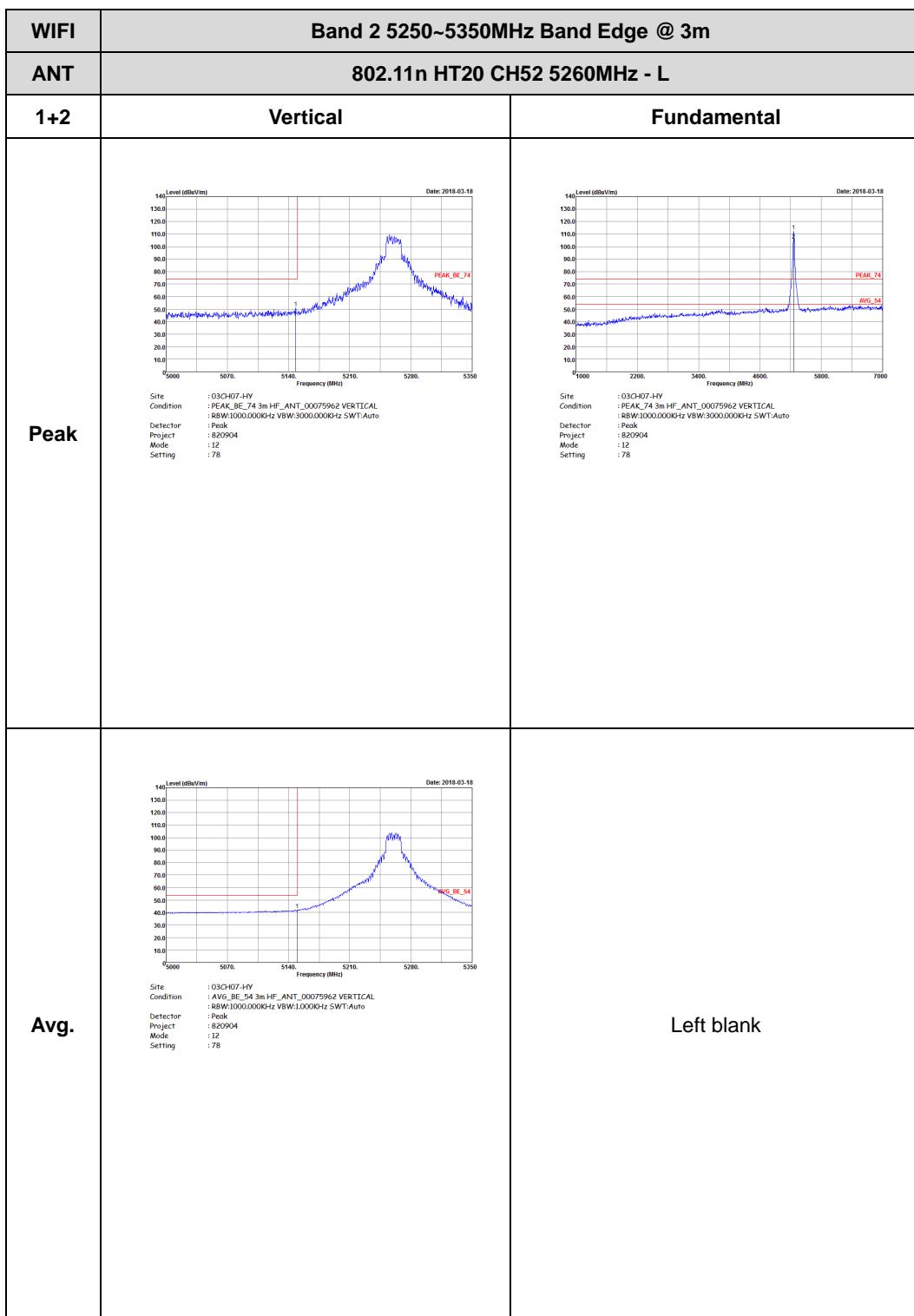


Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

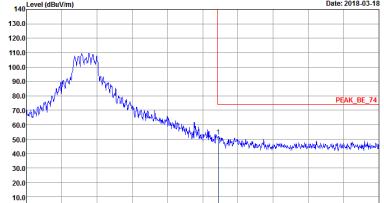
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5350. A red step function highlights the band edge. A sharp peak is labeled 'PEAK_BE_74' at approximately 5260 MHz.</p> <p>Site: 03C407-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL :RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector: Peak Project: 820904 Mode: 12 Setting: 78</p>	 <p>Level (dBuV/m) vs Frequency (MHz) from 1600 to 7000. A red step function highlights the band edge. A sharp peak is labeled 'PEAK_74' at approximately 5260 MHz.</p> <p>Site: 03C407-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL :RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector: Peak Project: 820904 Mode: 12 Setting: 78</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5350. A red step function highlights the band edge. A broad peak is labeled 'AVG_BE_54' at approximately 5260 MHz.</p> <p>Site: 03C407-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL :RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector: Peak Project: 820904 Mode: 12 Setting: 78</p>	Left blank

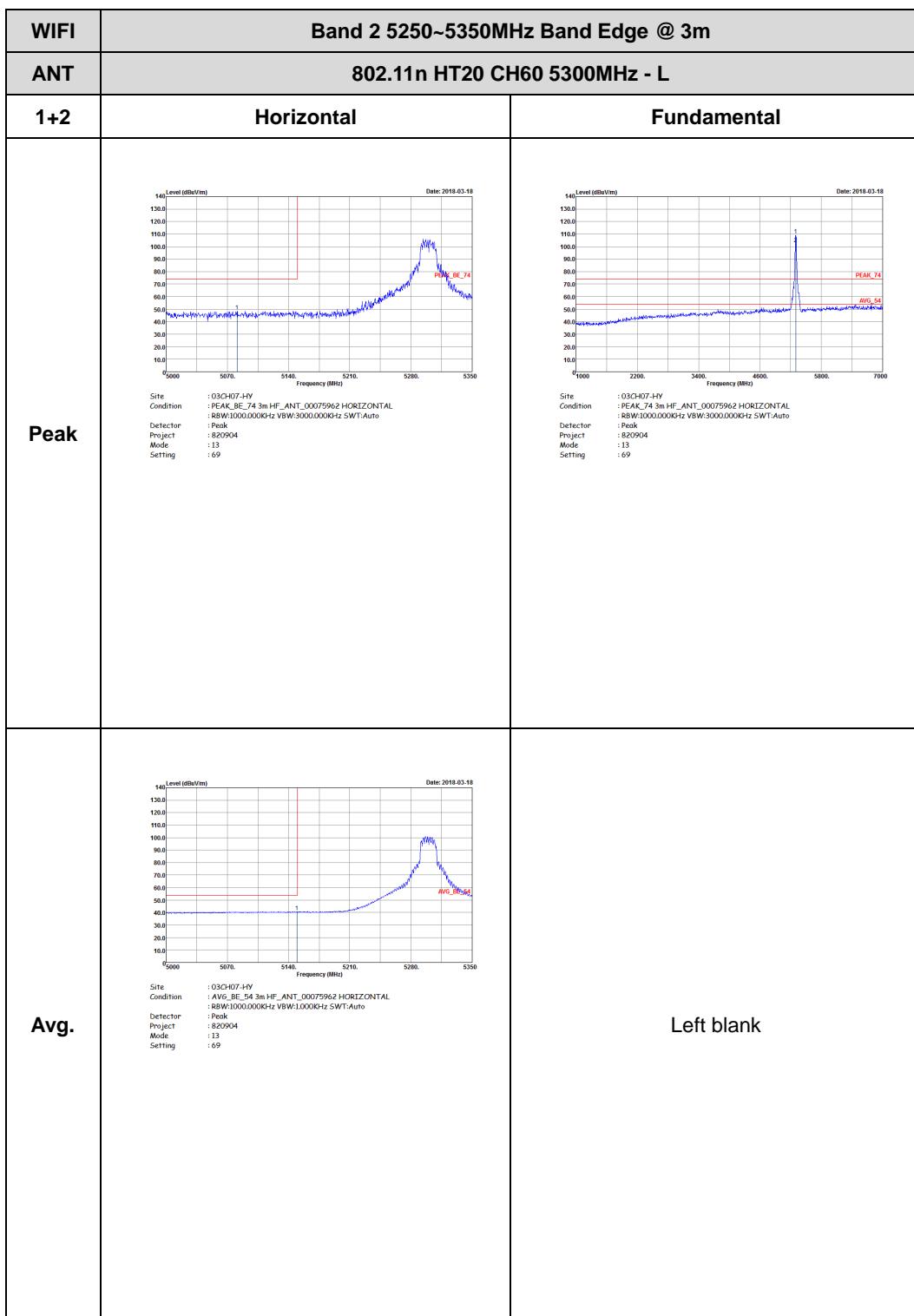


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 12 Setting : 78</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 12 Setting : 78</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 12 Setting : 78</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-18</p> <p>Site : AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Condition : R8W1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 12 Setting : 78</p>	Left blank





WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak	 Date: 2018-03-18 Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 13 Setting : 69	Left blank
Avg.	 Date: 2018-03-18 Site : 03CH07-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 13 Setting : 69	Left blank



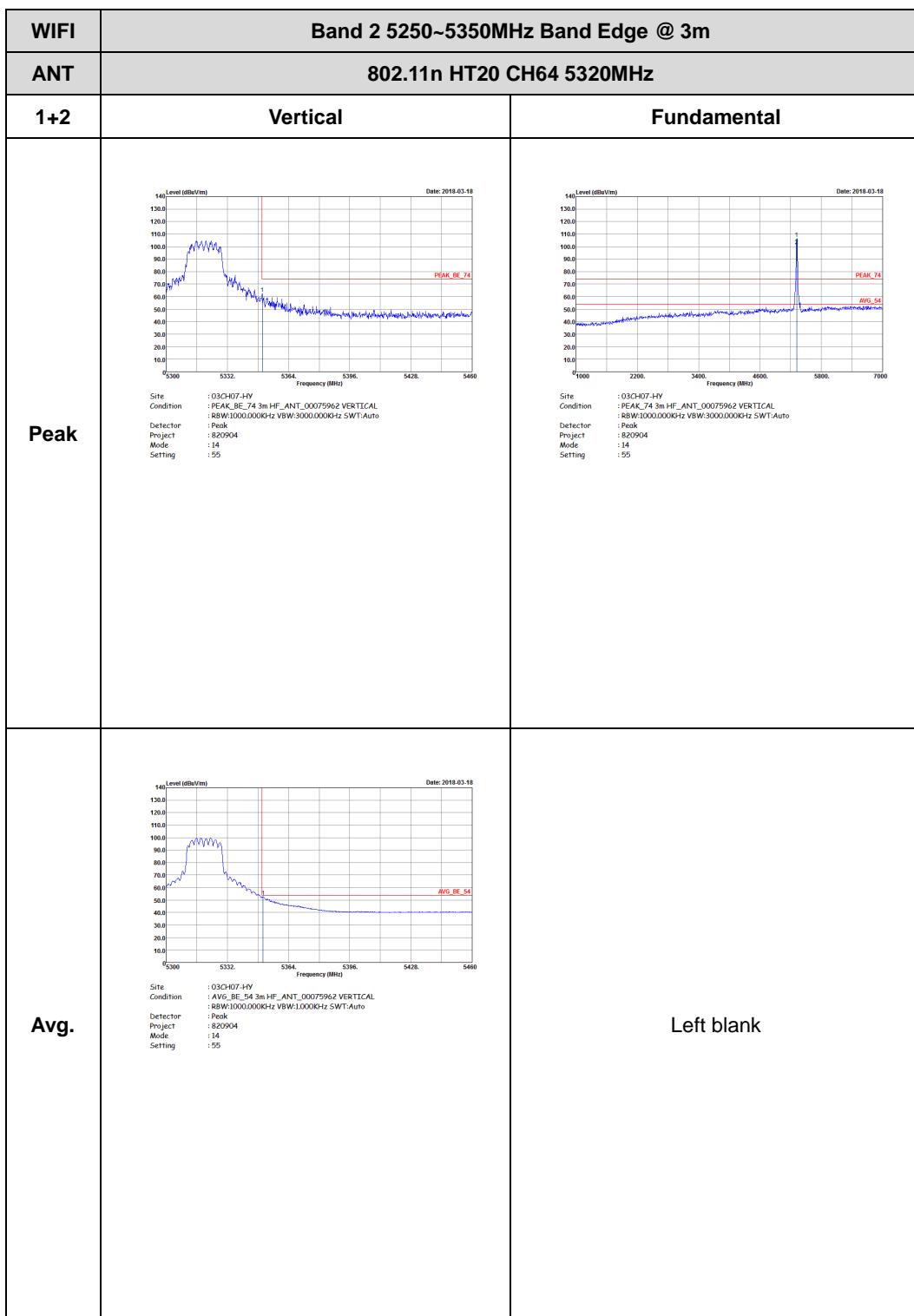
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : 13 Setting : 69	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANL_00075962 VERTICAL Detector : Peak Project : 820904 Mode : 13 Setting : 69
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANL_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 820904 Mode : 13 Setting : 69	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Date: 2018-03-18 Site: 03CH07-HY Condition: PCAC_BE_74 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:3000.000KHz SWT:Auto Project: 820904 Mode: 13 Setting: 69	Left blank
Avg.	 Date: 2018-03-18 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 VERTICAL Detector: R8W1000.000KHz VBW:1.000KHz SWT:Auto Project: 820904 Mode: 13 Setting: 69	Left blank

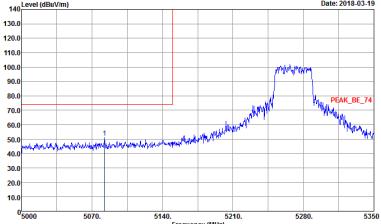
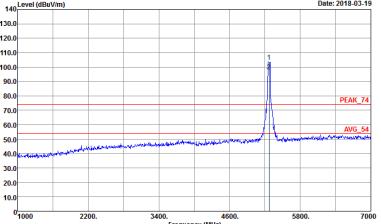
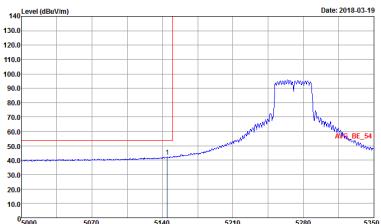


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PCAN_BE_74 3m HF_ANC_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 820904 Mode : 14 Setting : 55	 Site : 03CH07-HY Condition : PCAN_74 3m HF_ANC_00075962 HORIZONTAL Detector : R8W:1000.000GHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : 14 Setting : 55
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANC_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:1.000KHz SWT:Auto Project : 820904 Mode : 14 Setting : 55	Left blank



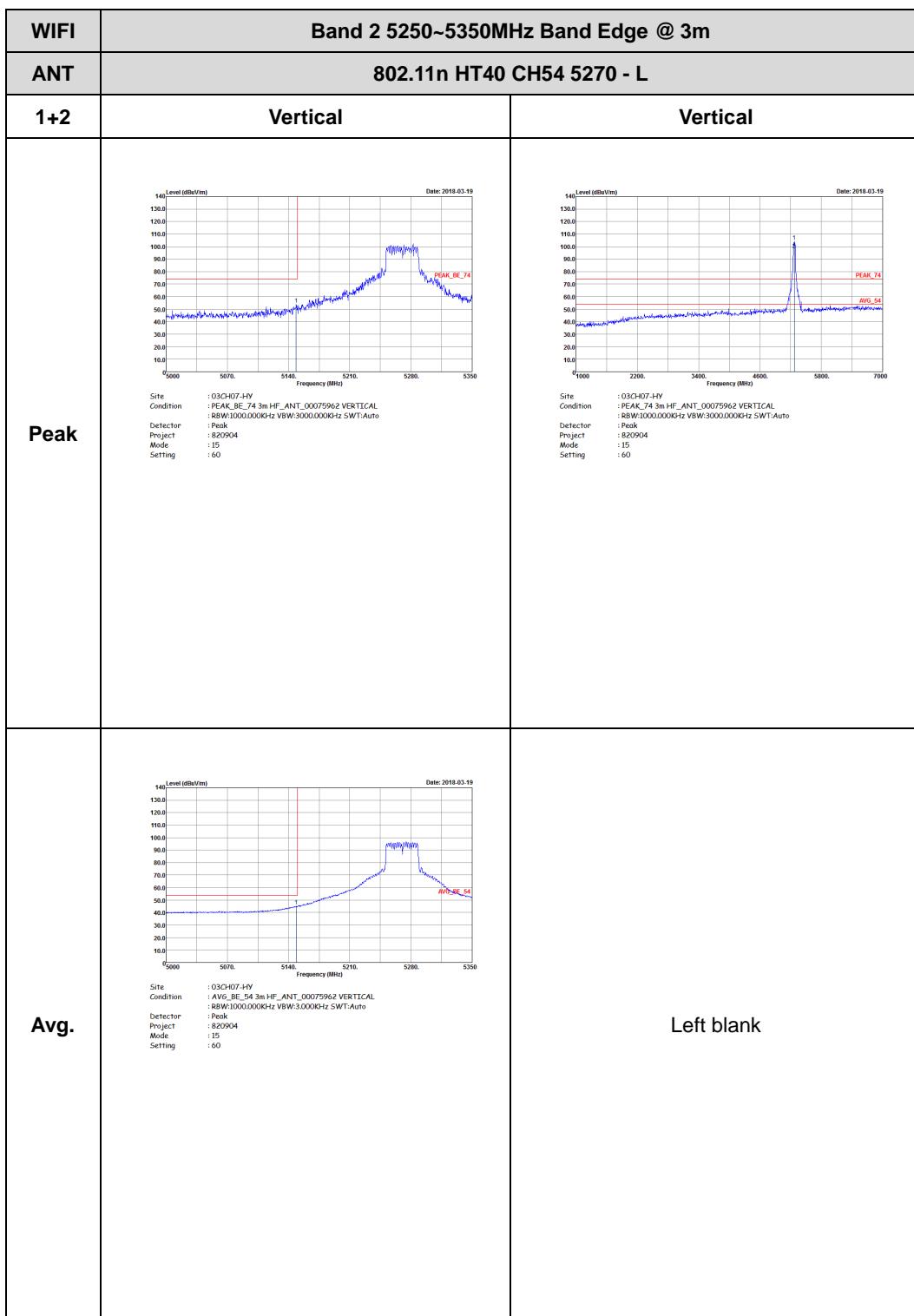


Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

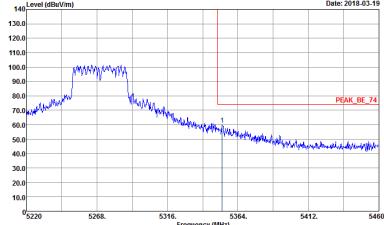
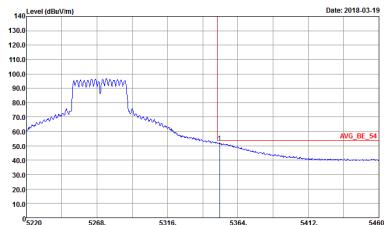
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03C407-HY Condition : PEAK_BE_74 3m HF,_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 820904 Mode : 15 Setting : 60</p>	 <p>Site : 03C407-HY Condition : PEAK_74 3m HF,_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto Detector : Peak Project : 820904 Mode : 15 Setting : 60</p>
Avg.	 <p>Site : 03C407-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWF:Auto Detector : Peak Project : 820904 Mode : 15 Setting : 60</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 Date: 2018-03-19 Site: 03CH07-HY Condition: PCAK_BE_74 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 15 Setting: 60 Frequency (MHz) 5220 5268 5316 5364 5412 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 PEAK_BE_74	Left blank
Avg.	 Date: 2018-03-19 Site: 03CH07-HY Condition: AVG_BE_54 3m HF, ANT_00075962 HORIZONTAL Detector: R8W1000.000KHz VBW:3.000KHz SWT:Auto Project: 820904 Mode: 15 Setting: 60 Frequency (MHz) 5220 5268 5316 5364 5412 5460 Level (dBmV/m) 140.0 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 AVG_BE_54	Left blank



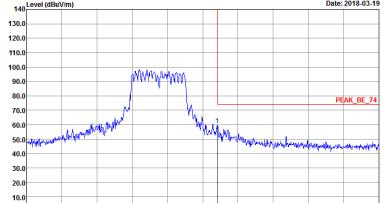
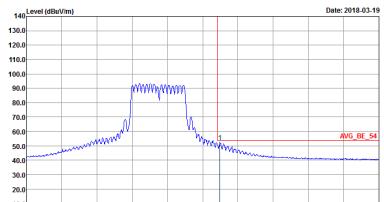


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Site : 03CH07-HY Condition : PCAK_BE_74 3m HF,_ANT_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 15 Setting : 60</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 820904 Setting : 15 Setting : 60</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PCNA, BE_74 3m HF_, ANT_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 820904 Mode : 16 Setting : 45</p>	<p>Site : 03CH07-HY Condition : PCNA, 74 3m HF_, ANT_00075962 HORIZONTAL Detector : R8W:1000.000GHz VBW:3000.000Hz SWT:Auto Project : 820904 Mode : 16 Setting : 45</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_, ANT_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 820904 Mode : 16 Setting : 45</p>	Left blank

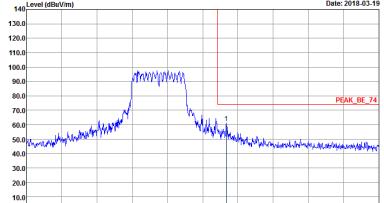
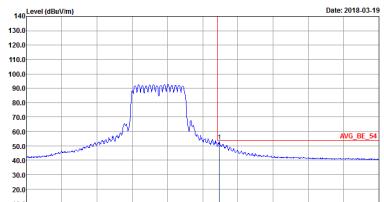


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 HORIZONTAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 16 Setting : 45</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HF,_ANT_00075962 HORIZONTAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 16 Setting : 45</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PCNAK_74 3m HF,_ANT_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 820904 Mode : 16 Setting : 45	 Site : 03CH07-HY Condition : PCNAK_74 3m HF,_ANT_00075962 VERTICAL Detector : Peak Project : 820904 Mode : 16 Setting : 45
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : 820904 Mode : 16 Setting : 45	Left blank

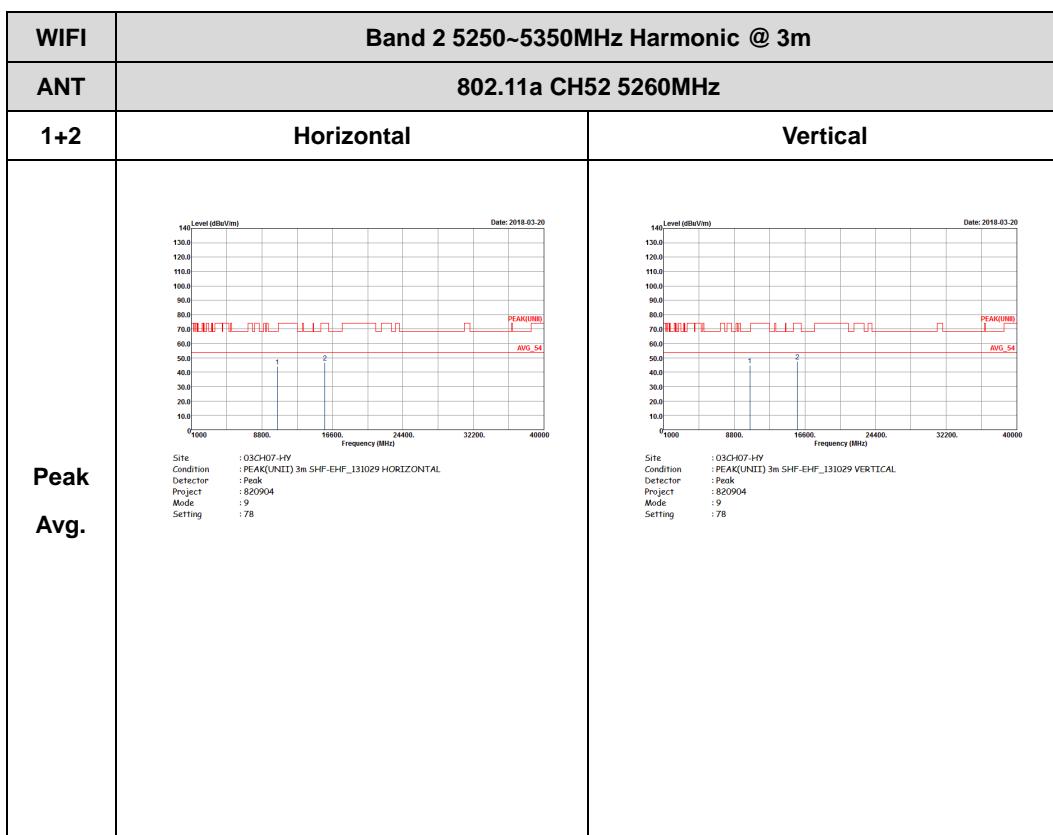


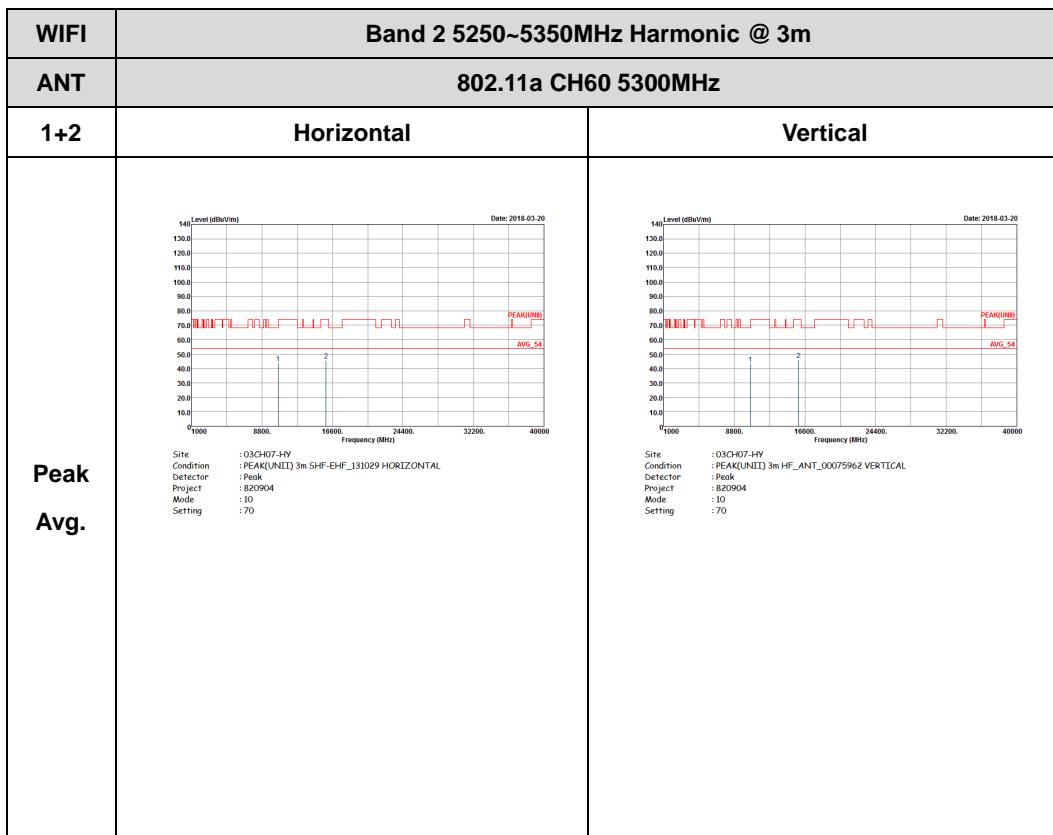
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Frequency (MHz)</p> <p>Site : 03CH07-HY Condition : PCAC_BE_74 3m HF,_ANT_00075962 VERTICAL Detector : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Mode : 16 Setting : 45</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2018-03-19</p> <p>Frequency (MHz)</p> <p>Site : AVG_BE_54 3m HF,_ANT_00075962 VERTICAL Condition : R8W:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 16 Setting : 45</p>	Left blank

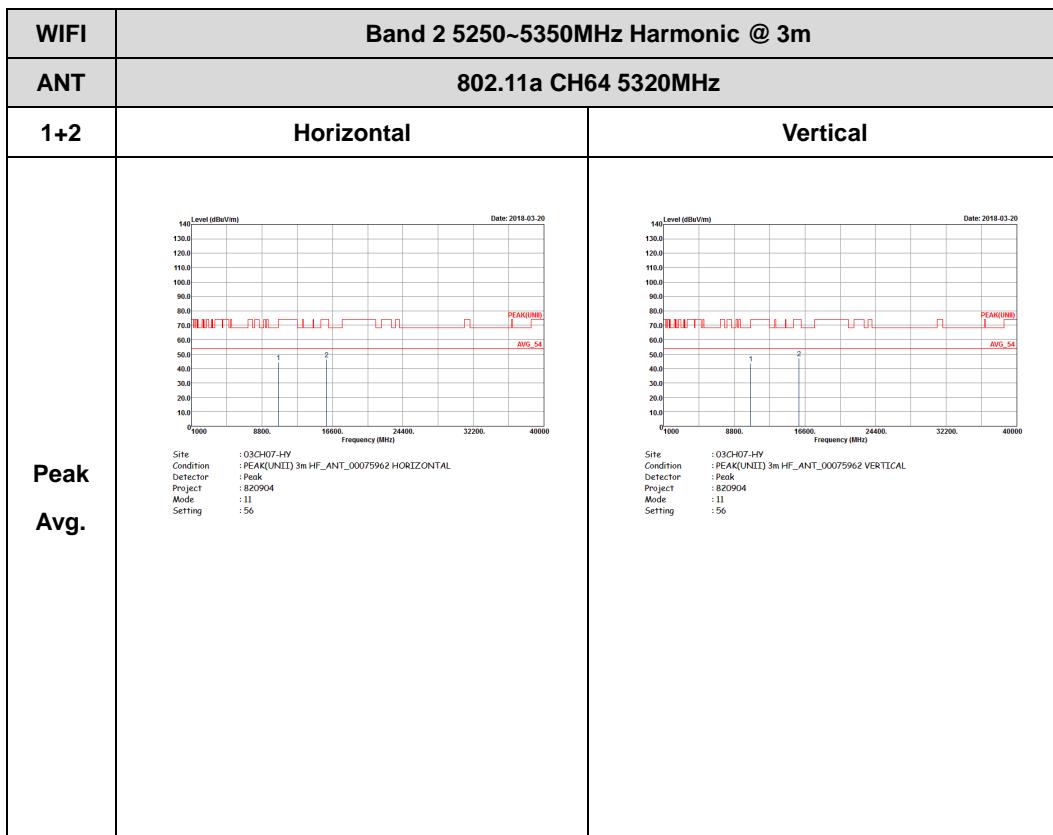


Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

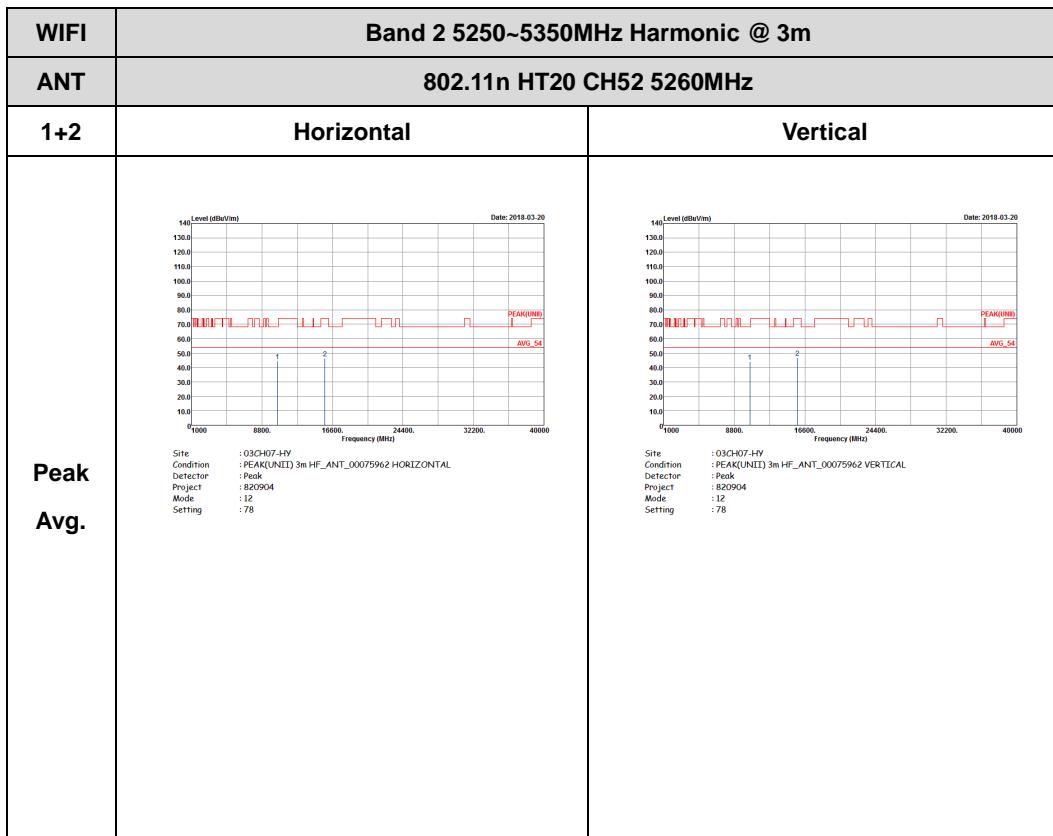


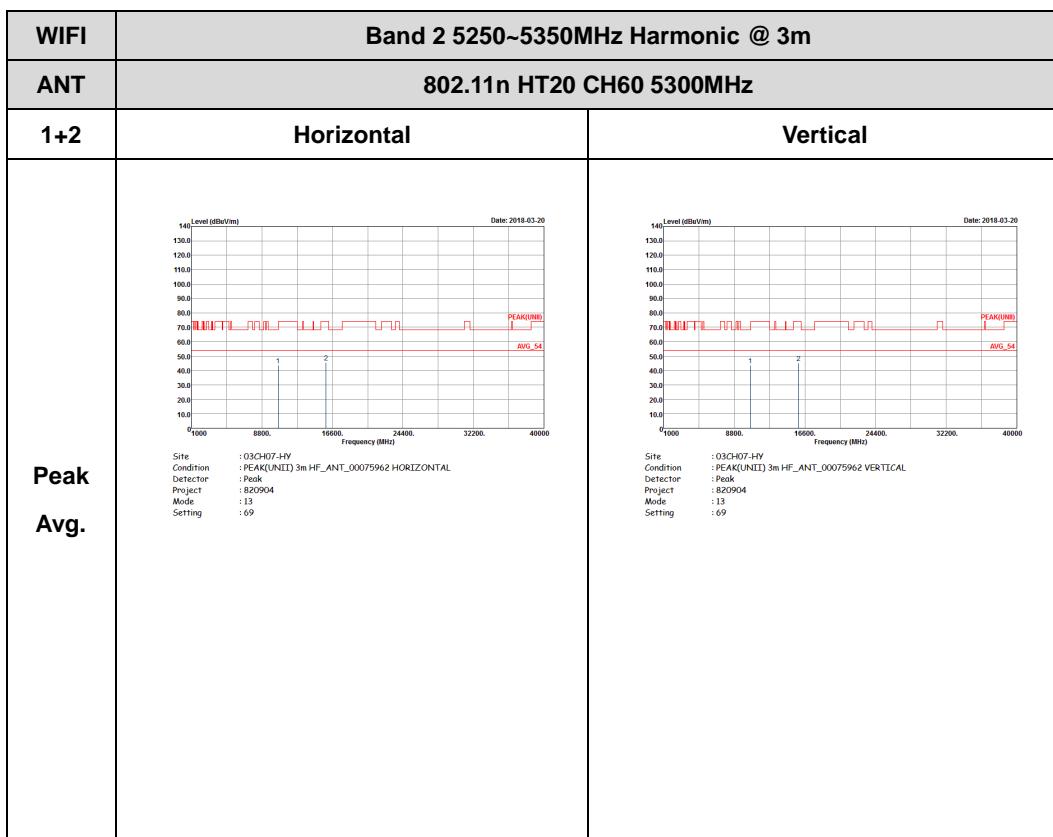


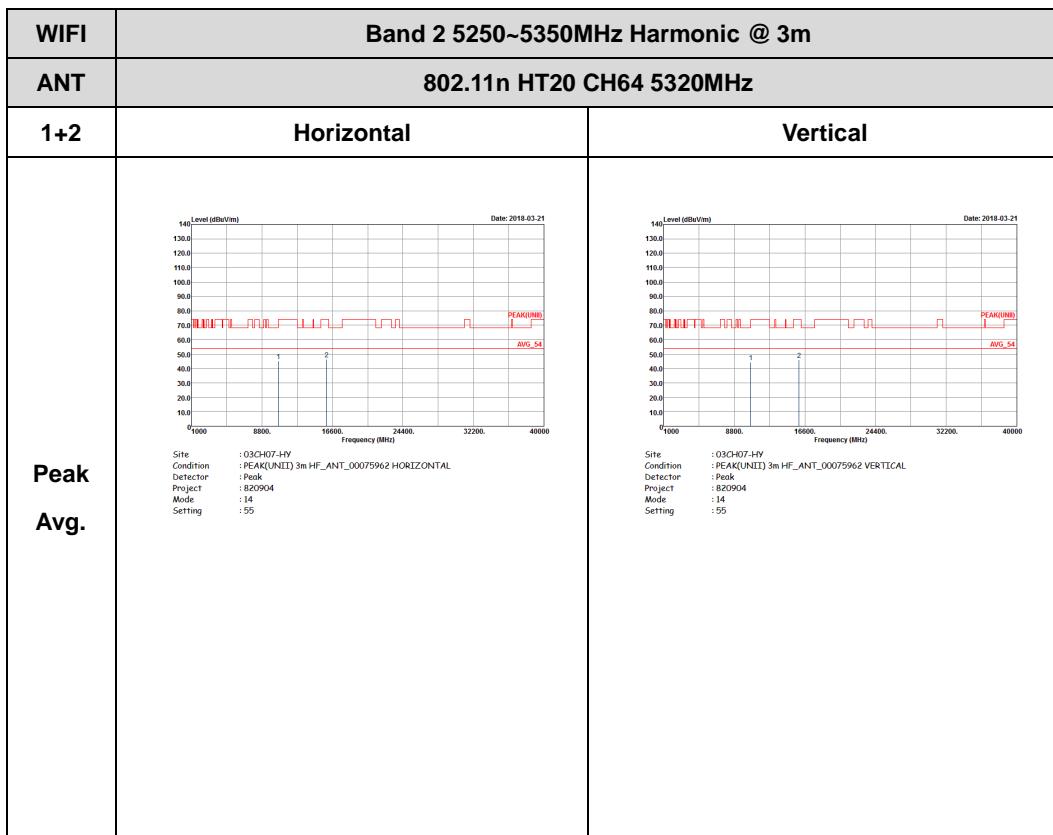




Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)



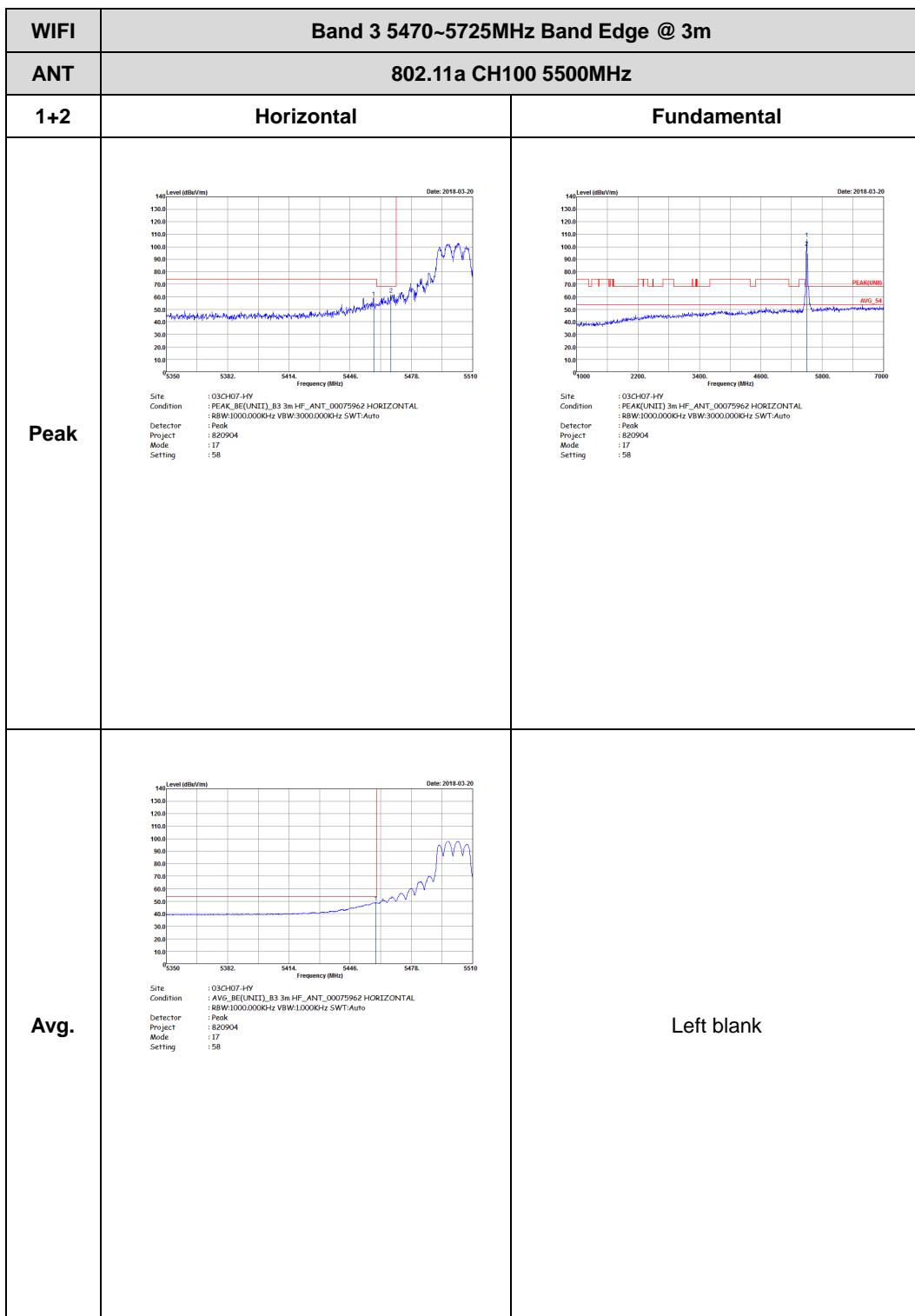


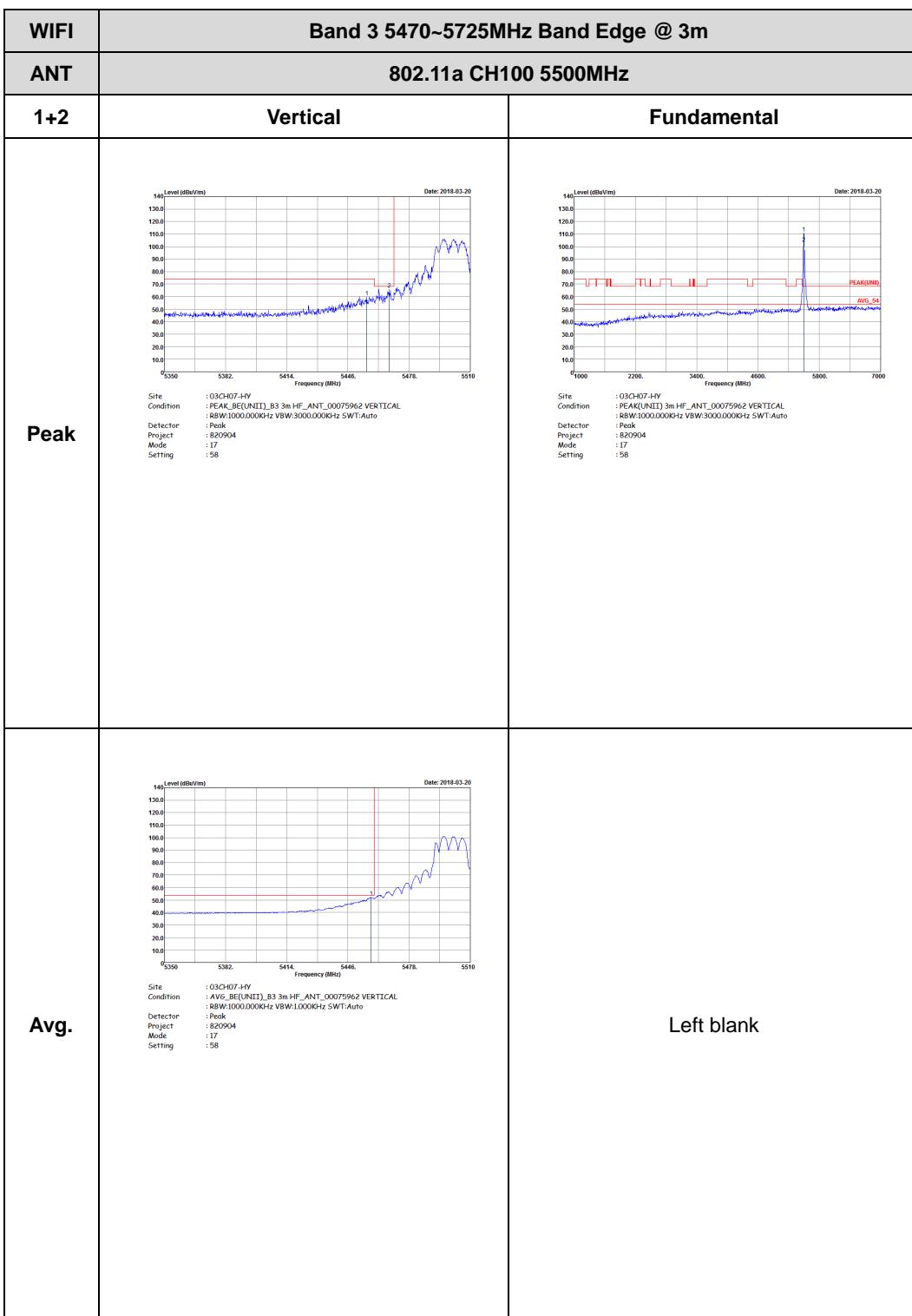


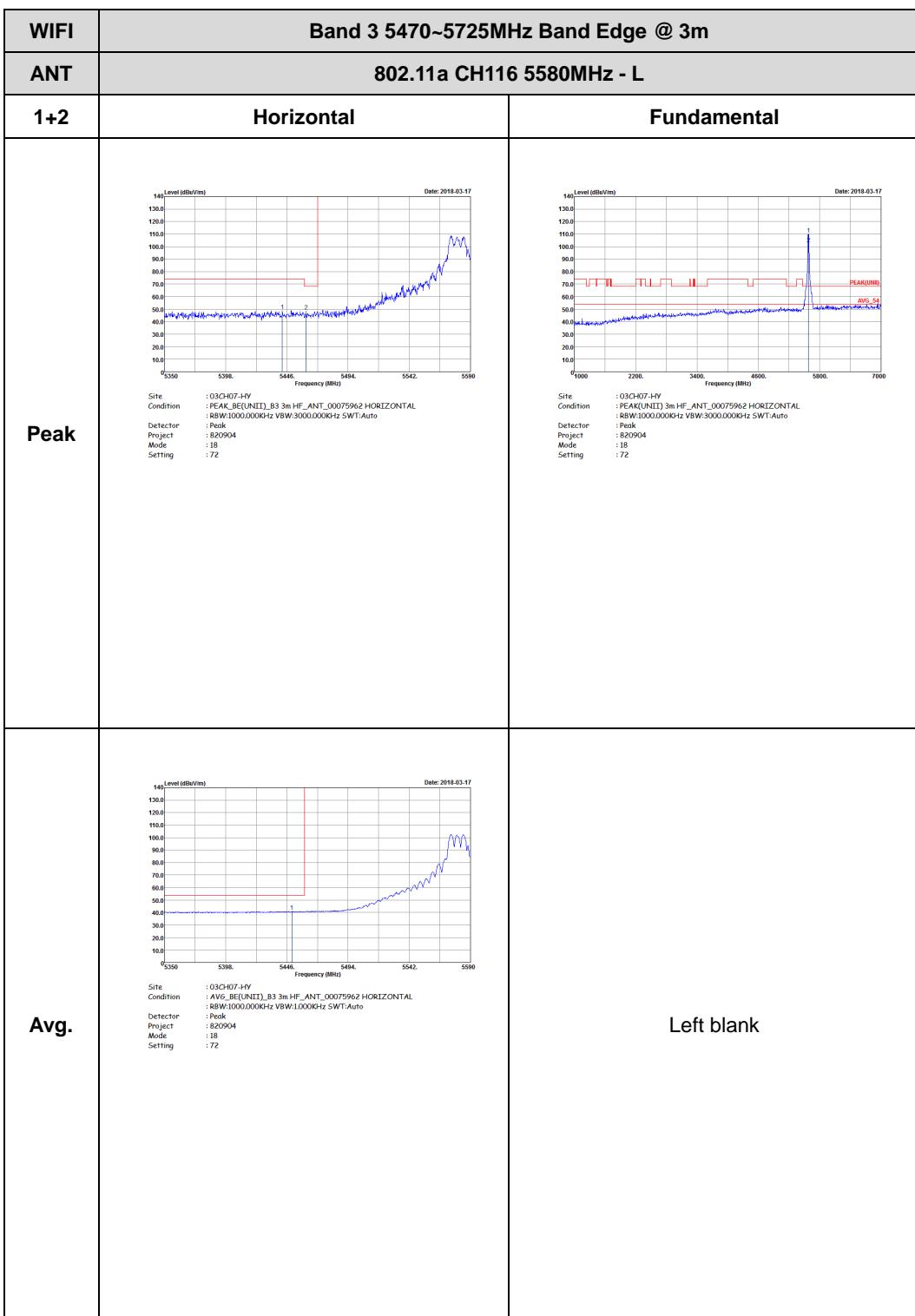


Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

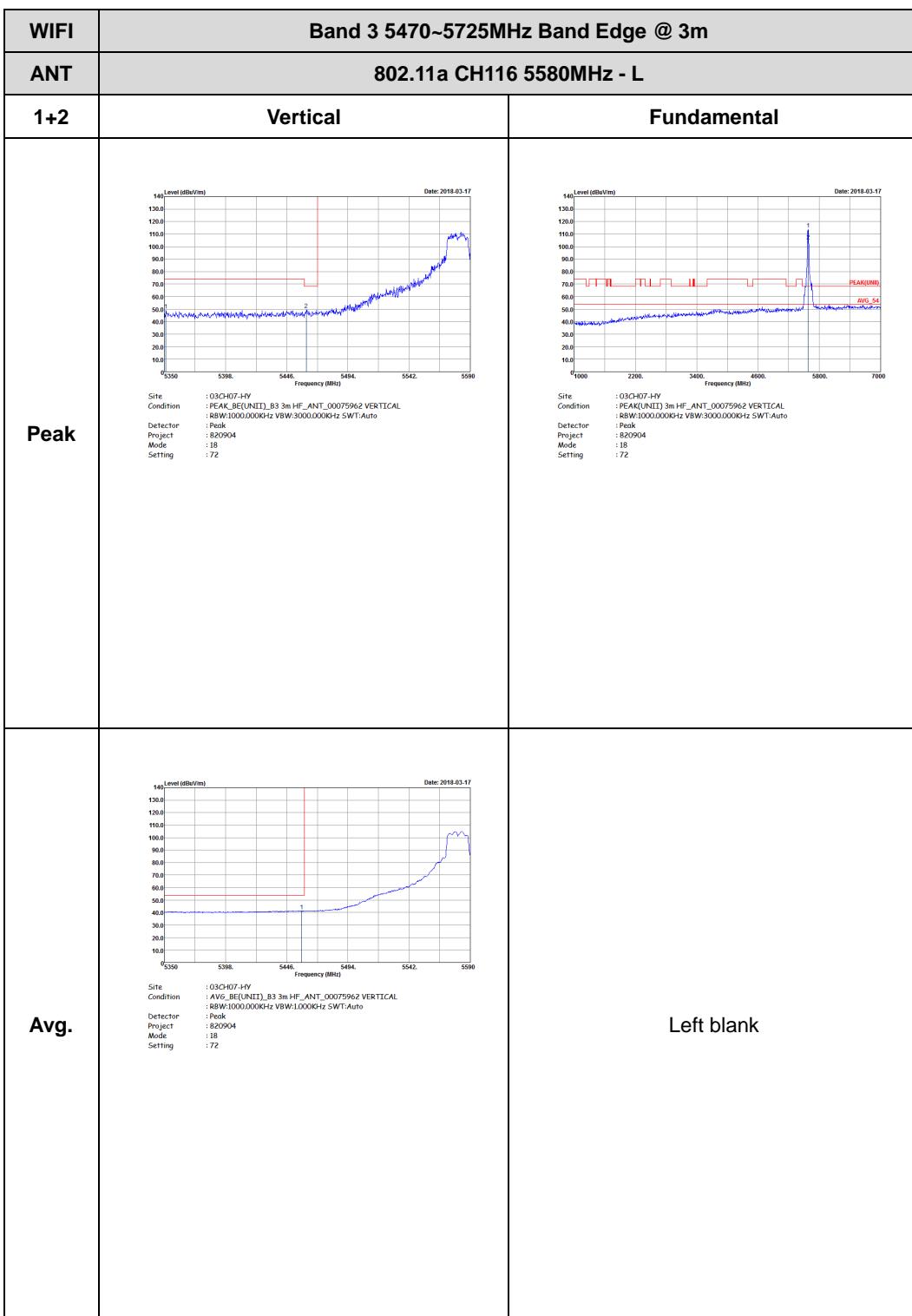






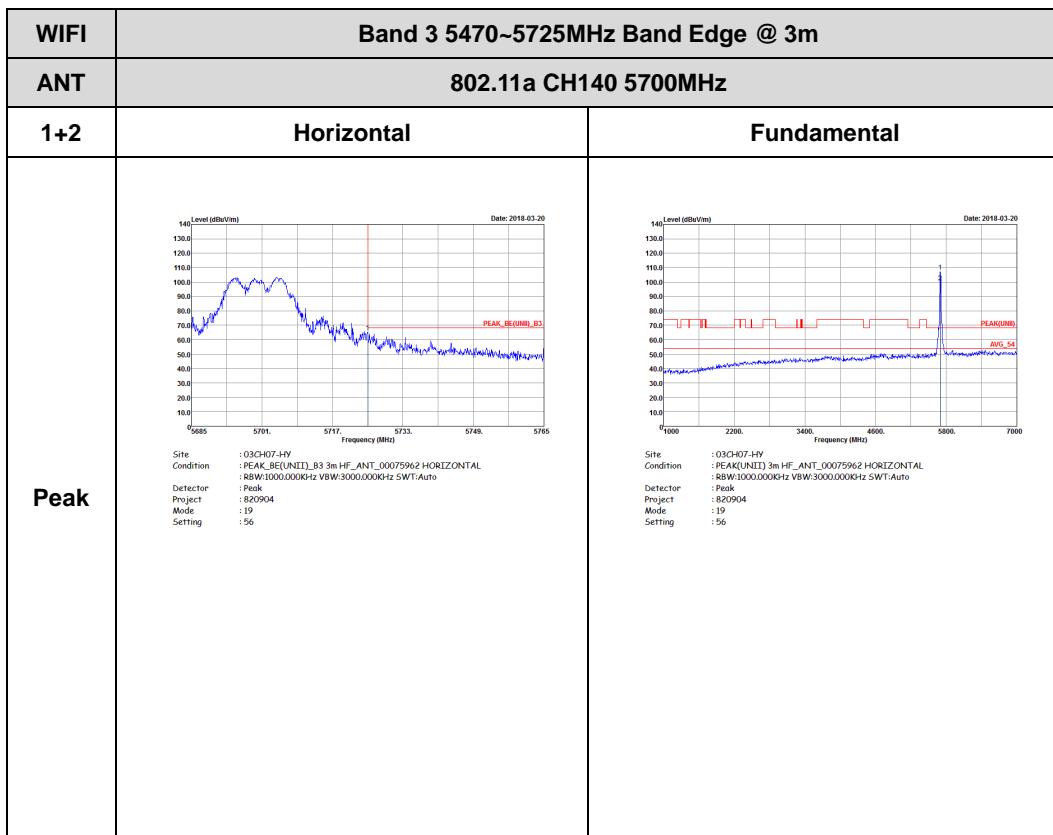


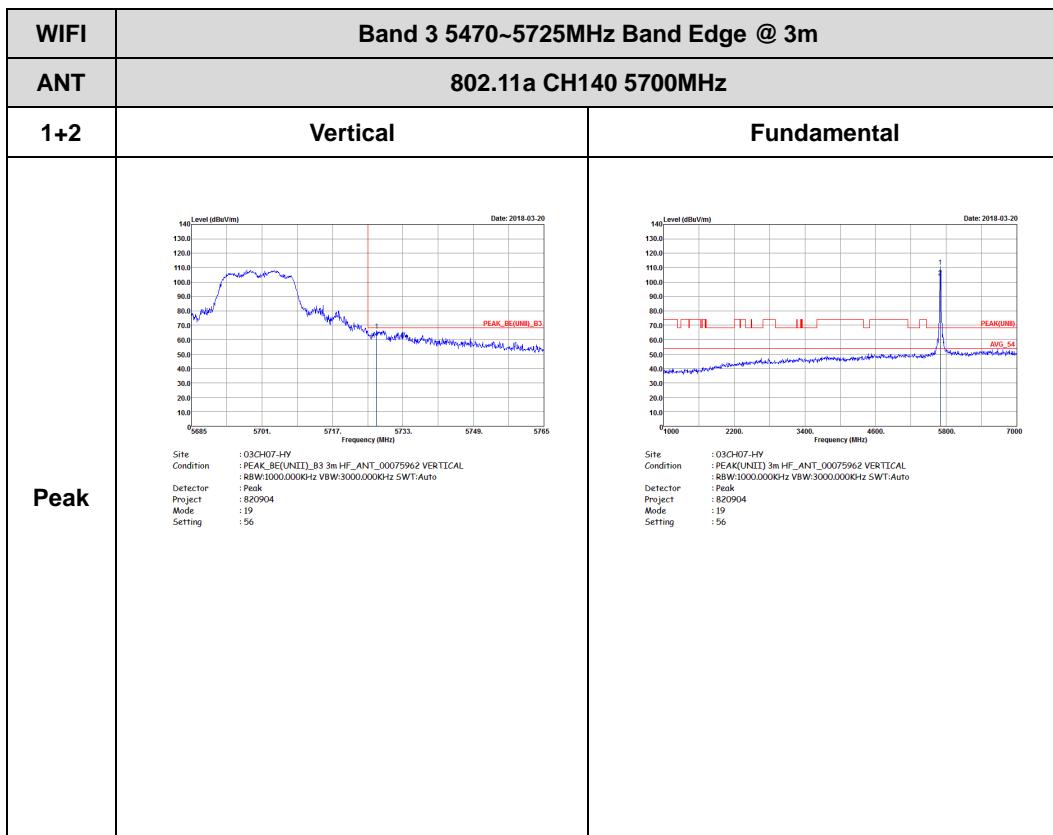
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Frequency (MHz)</p> <p>Date: 2018-03-17</p> <p>Site : 034-07-HV Condition : FCC-BE(UMB), B3 3m HF,,ANT_00075962 HORIZONTAL Detector : Peak Project : 820904 Mode : 18 Setting : 72</p>	Left blank





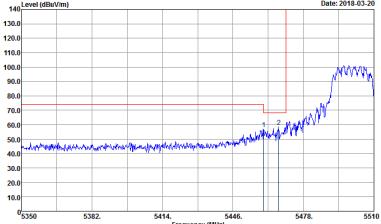
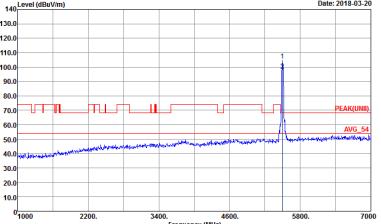
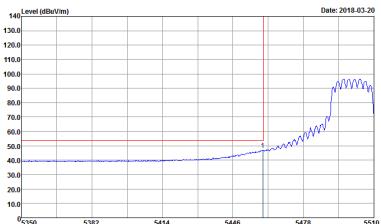
WIFI	Band 3 5470~5725MHz Band Edge @ 3m													
ANT	802.11a CH116 5580MHz - R													
1+2	Vertical	Fundamental												
Peak	<p>The figure is a line graph titled "Level (dBmV/m)" on the y-axis and "Frequency (MHz)" on the x-axis. The y-axis ranges from 10.0 to 140.0 in increments of 10.0. The x-axis ranges from 5450 to 5765 in increments of 10. A blue line represents the signal level. It shows a sharp peak at approximately 5580 MHz, reaching a level of about 115 dBmV/m. There are two red vertical markers: one at the start of the plot (around 5470 MHz) and another at the peak (labeled "PEAK_BE(UMB)_B3"). Below the plot is a table of test parameters:</p> <table><tr><td>Site</td><td>: 034-07-HV</td></tr><tr><td>Condition</td><td>: FCC-BE(UMB)_B3 3m HF..ANT_00075962 VERTICAL</td></tr><tr><td>Detector</td><td>: R8W1000.0000KHz VSW-3000.0000Hz SWF!Auto</td></tr><tr><td>Project</td><td>: Peak</td></tr><tr><td>Mode</td><td>: 18</td></tr><tr><td>Setting</td><td>: 72</td></tr></table>	Site	: 034-07-HV	Condition	: FCC-BE(UMB)_B3 3m HF..ANT_00075962 VERTICAL	Detector	: R8W1000.0000KHz VSW-3000.0000Hz SWF!Auto	Project	: Peak	Mode	: 18	Setting	: 72	Left blank
Site	: 034-07-HV													
Condition	: FCC-BE(UMB)_B3 3m HF..ANT_00075962 VERTICAL													
Detector	: R8W1000.0000KHz VSW-3000.0000Hz SWF!Auto													
Project	: Peak													
Mode	: 18													
Setting	: 72													

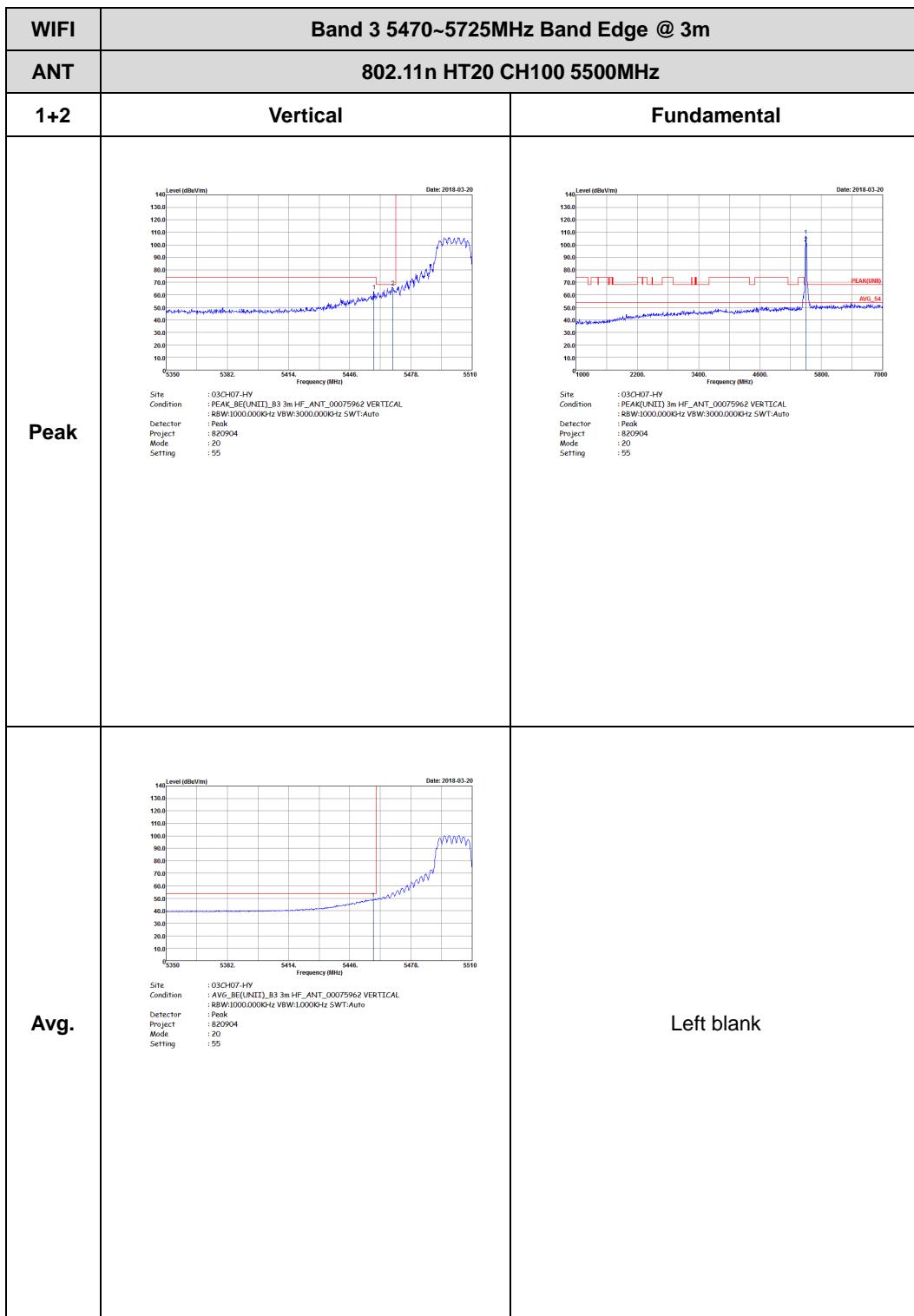


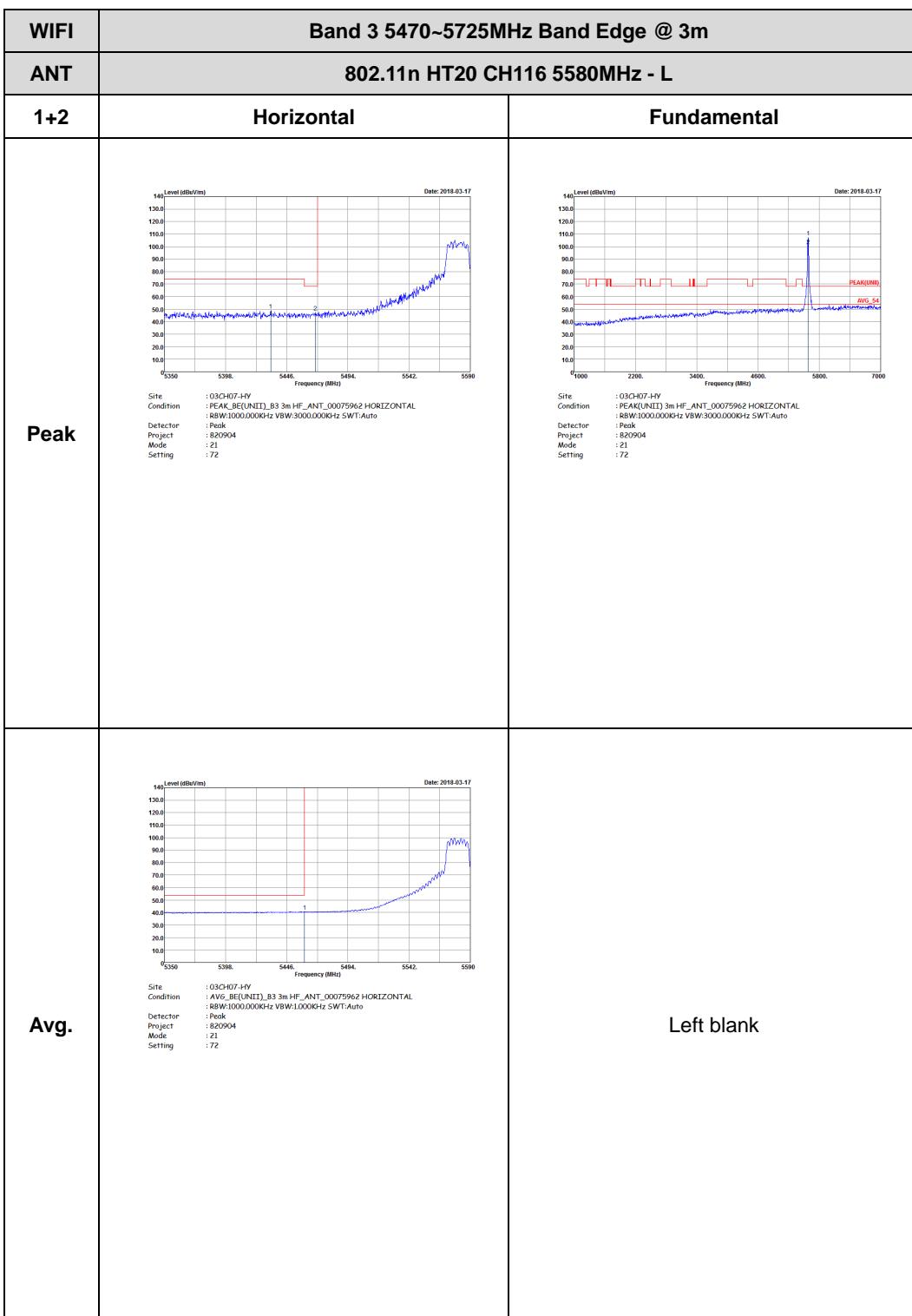




Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

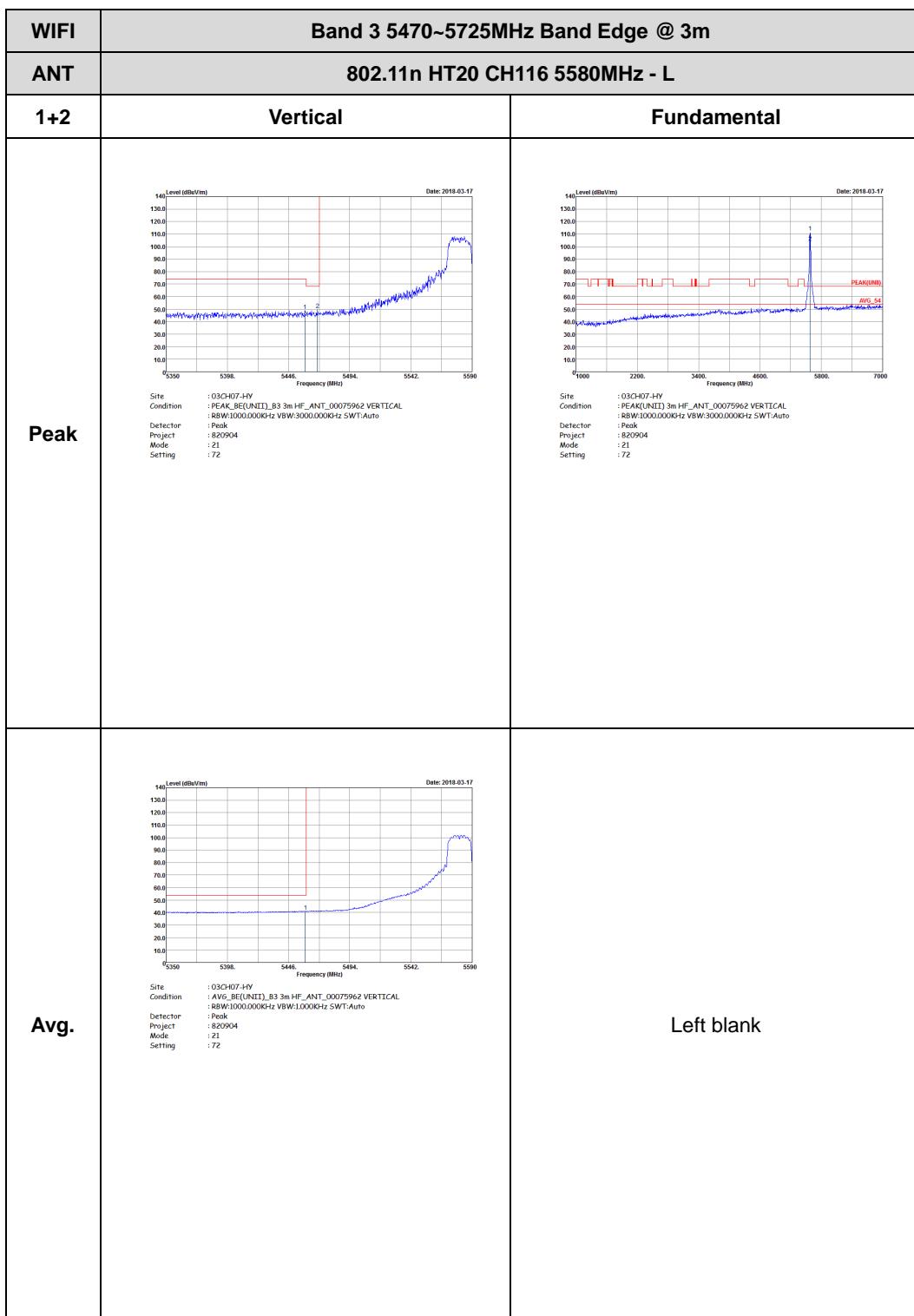
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) Date: 2018-03-20</p> <p>5350 5382 5414 5446 5478 5510 Frequency (MHz)</p> <p>Site : 03C407-HY Condition : PEAK_BEC(UNIT)_B3 3m HF_ANT_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 20 Setting : 55</p>	 <p>Level (dBuV/m) Date: 2018-03-20</p> <p>1000 2200 3400 4600 5800 Frequency (MHz)</p> <p>Site : 03C407-HY Condition : PEAK(UNIT) 3m HF_ANT_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 20 Setting : 55</p>
Avg.	 <p>Level (dBuV/m) Date: 2018-03-20</p> <p>5350 5382 5414 5446 5478 5510 Frequency (MHz)</p> <p>Site : 03C407-HY Condition : AVG_BEC(UNIT)_B3 3m HF_ANT_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 20 Setting : 55</p>	Left blank





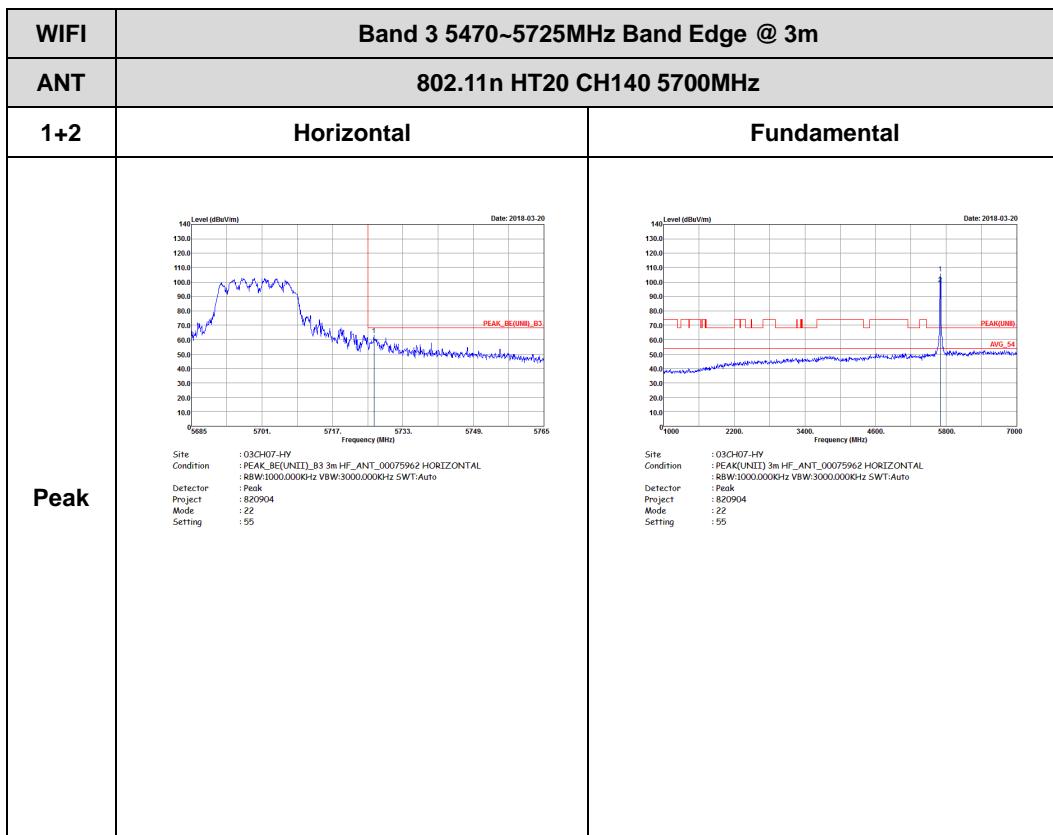


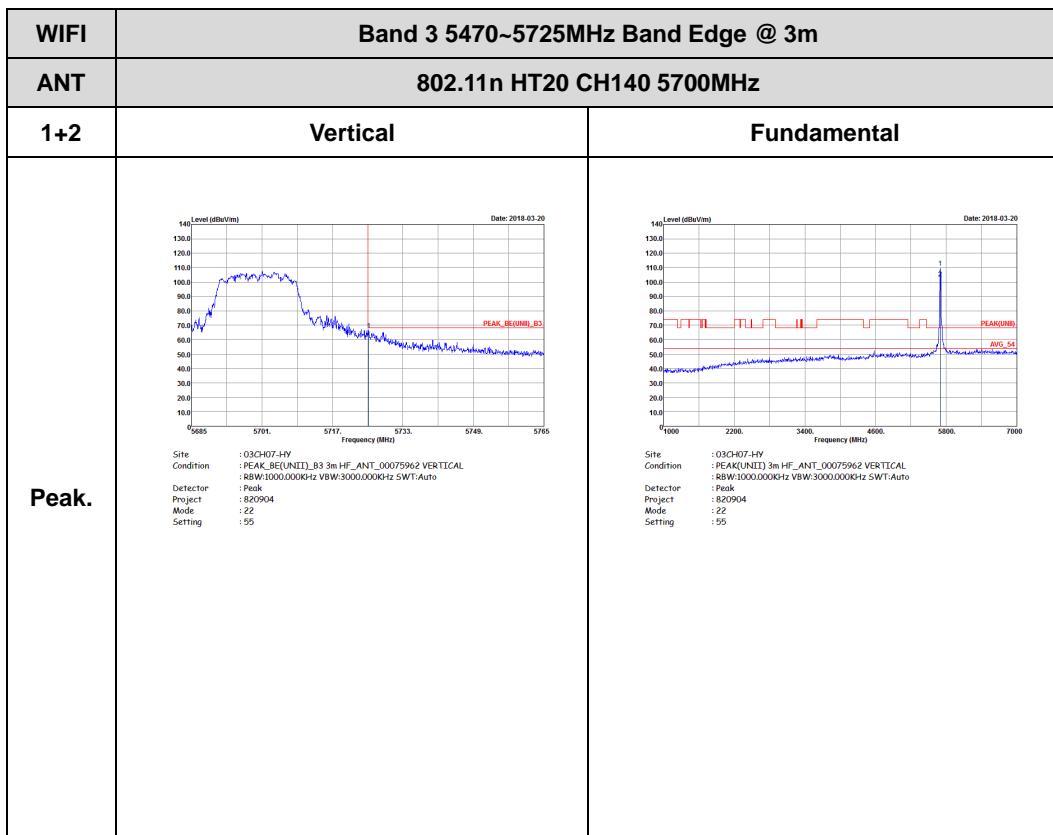
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>The figure is a line graph titled "Level (dBmV/m)" on the y-axis and "Frequency (MHz)" on the x-axis. The y-axis ranges from 10.0 to 140.0 in increments of 10.0. The x-axis ranges from 5450 to 5765 in increments of 10. A blue line shows a noisy signal with a sharp peak labeled "PEAK_BE(UMB)_B3" at approximately 5580 MHz. Two red vertical lines mark the channel boundaries at 5572.1 MHz and 5592.1 MHz. The plot is dated 2018-03-17.</p> <p>Site : 034407-HV Condition : FCC-BE(UMB), B3 3m HF..ANT_00075962 HORIZONTAL Detector : R8W1000.0000KHz VSW-3000.0000Hz SWF:Auto Project : Peak Mode : 820904 Setting : 21 : 72</p>	Left blank





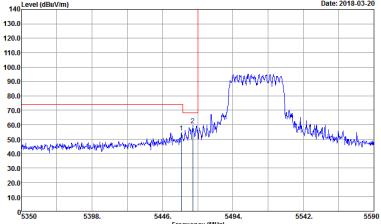
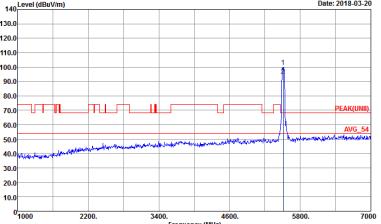
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	<p>The figure is a line graph titled "Level (dBmV/m)" versus "Frequency (MHz)". The x-axis ranges from 5450 to 5765 MHz, and the y-axis ranges from 0.0 to 140.0 dBmV/m. A blue line shows a noisy signal with a sharp peak at approximately 5580 MHz. Two red vertical lines mark the peak frequency and its center frequency. Text at the bottom of the plot area includes: Site: 034407-HV; Condition: FCC-BE(UNID); Date: 2018-03-17; Frequency: 5580.000000MHz; Power: 0.000000dBmV/m; Detector: Peak; Project: 820904; Mode: 21; Setting: 72.</p> <p>Left blank</p>	





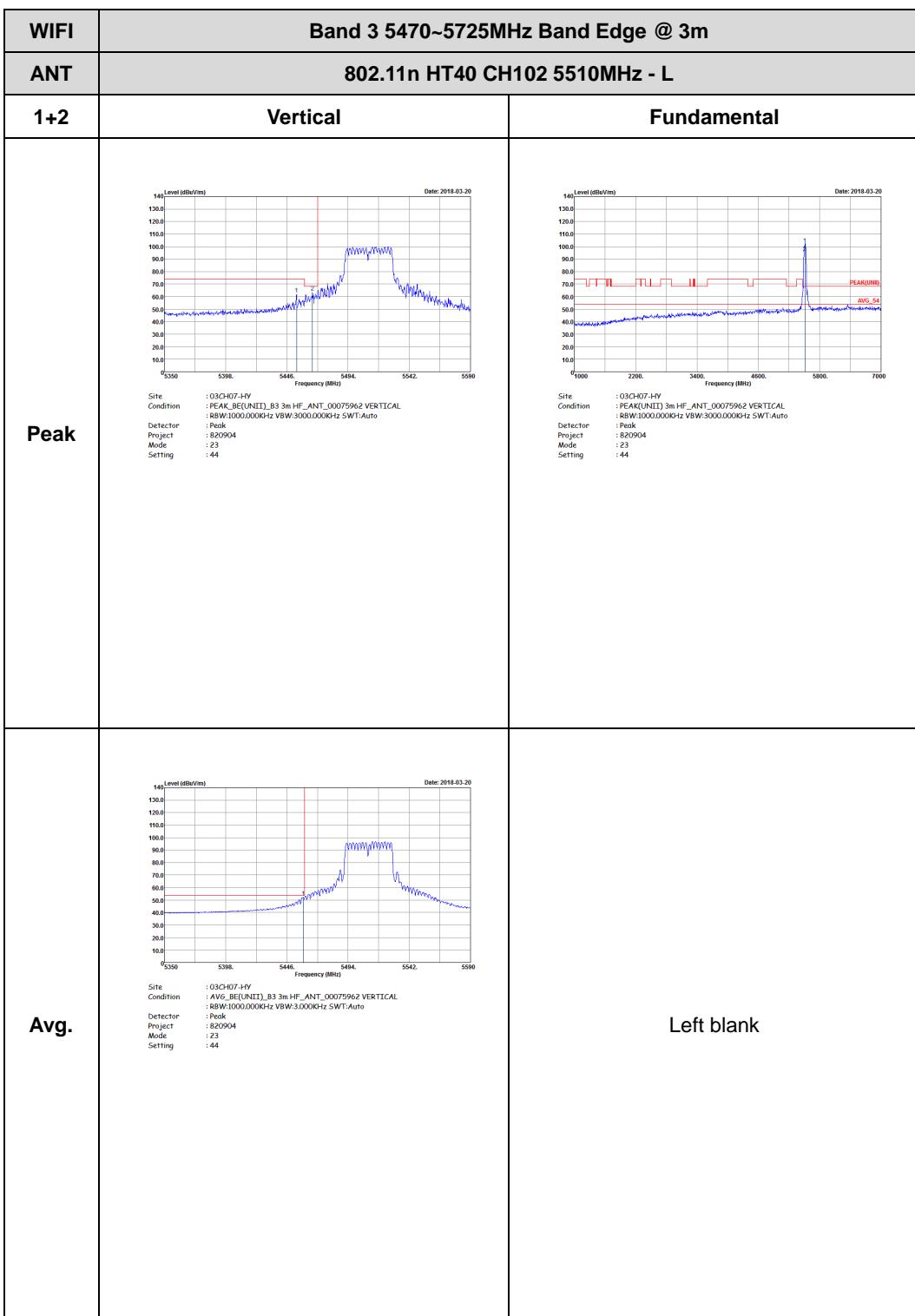


Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANC_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 23 Setting : 44</p>	 <p>Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANC_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 23 Setting : 44</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANC_000759%2 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 820904 Mode : 23 Setting : 44</p>	Left blank

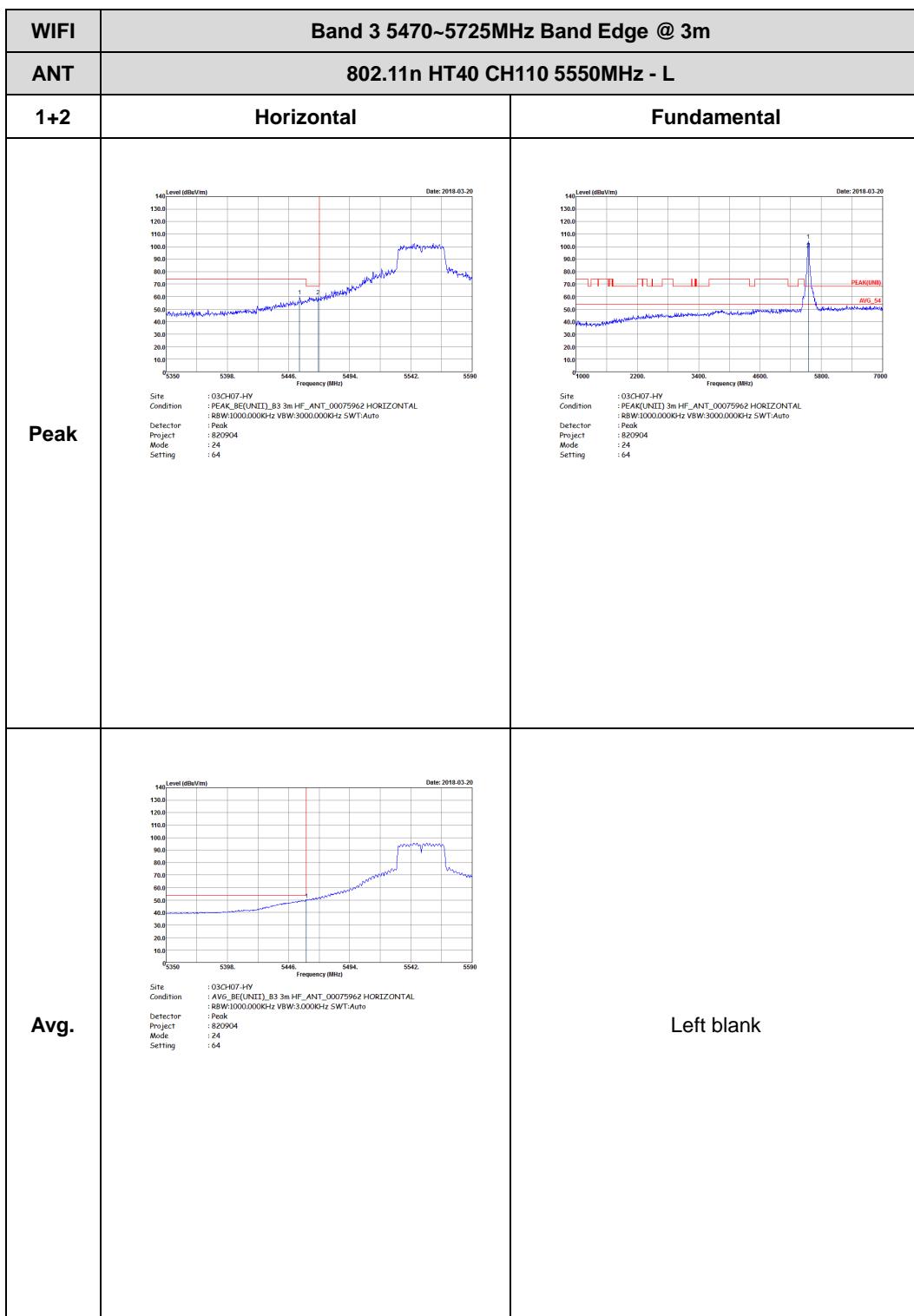


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Date: 2018-03-20</p> <p>Frequency (MHz)</p> <p>Site : 034407-HV Condition : FCC-BE(UNID)_B3 3m HF..ANT_00075962 HORIZONTAL Detector : 88W1000.0000KHz VSW-3000.0000Hz SWF:Auto Project : Peak Mode : 23 Setting : 44</p>	Left blank



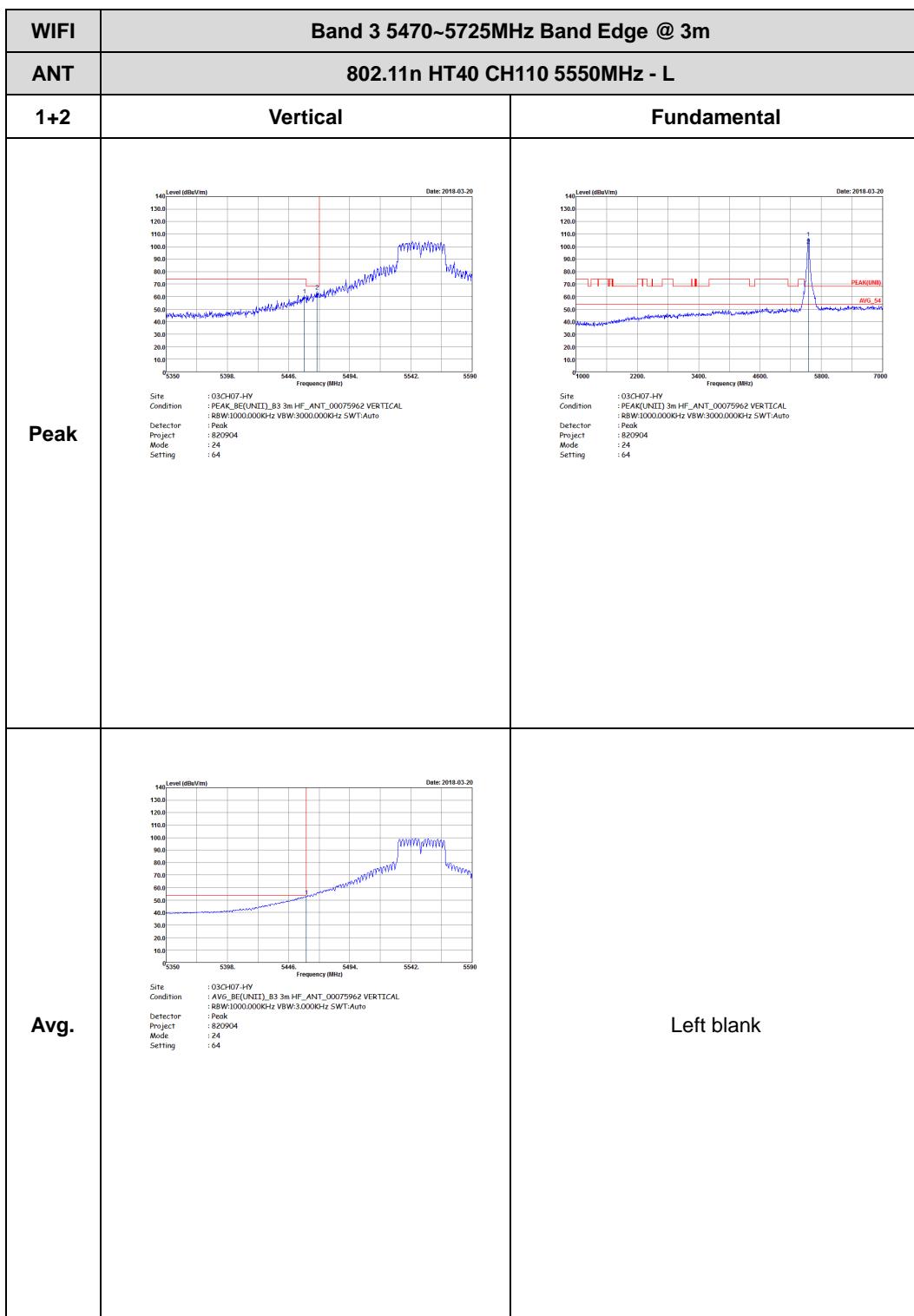


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak	<p>The figure is a line graph titled "Level (dBmV/m)" versus "Frequency (MHz)". The x-axis ranges from 5450 to 5765 MHz with major ticks every 50 MHz. The y-axis ranges from 10.0 to 140.0 dBmV/m with major ticks every 10 dBmV/m. A blue line shows a noisy signal with a sharp peak at approximately 5510 MHz. Two red vertical lines mark the peak frequency and its center frequency. Text on the plot includes "Date: 2018-03-20", "PEAK_BE(UNII_B3)", and parameter settings: Site: 03H07-HV, Condition: PCAC_BE(UNII_B3 3m HF..ANT_00075962 VERTICAL, 188W1000.000KHz VBW:3000.000KHz SWF:Auto, Detector: Peak, Project: 820904, Mode: 23, Setting: 44.</p> <p>Left blank</p>	



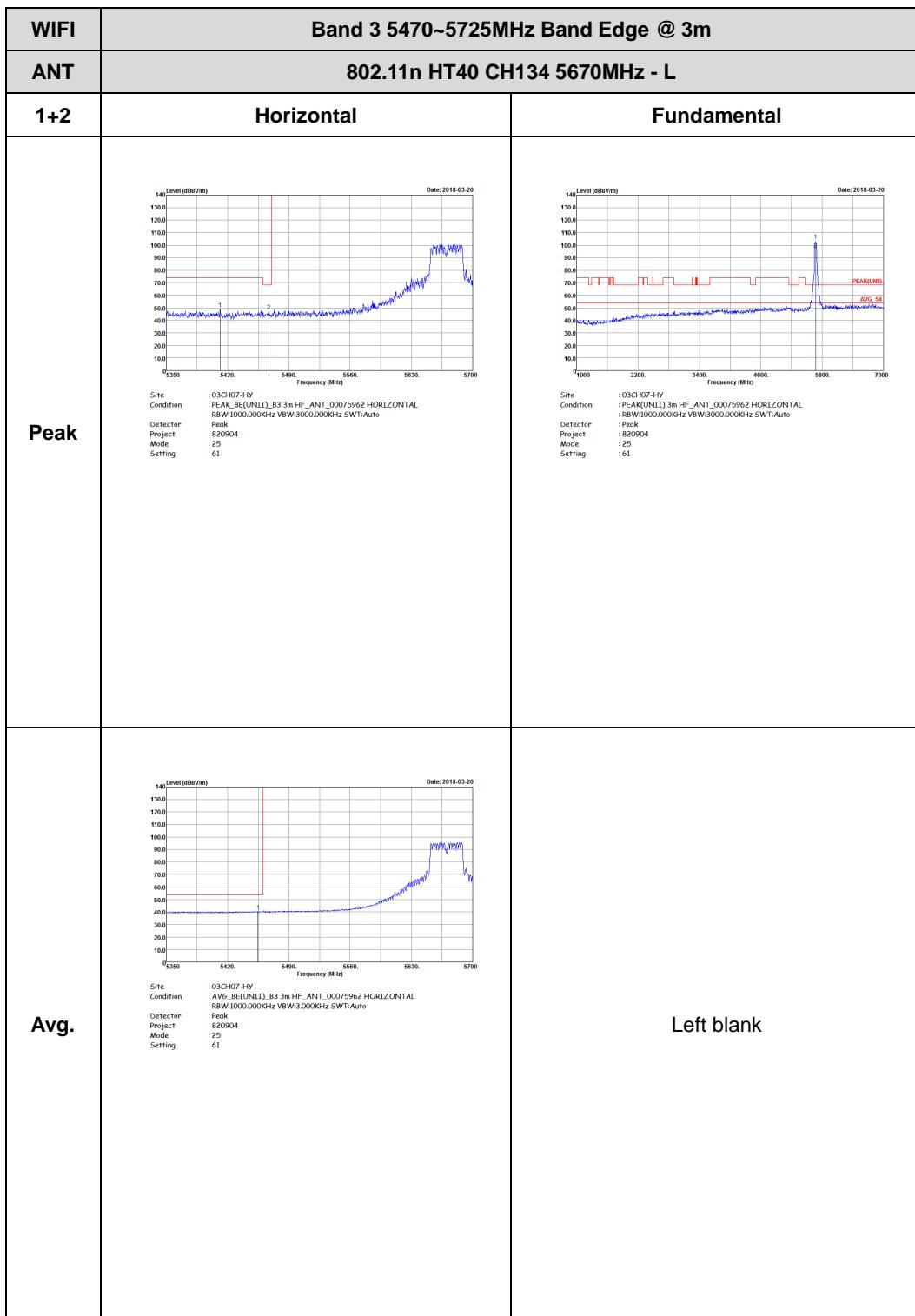


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Frequency (MHz)</p> <p>Date: 2018-03-20</p> <p>Site : 034-07-HV Condition : FCC-BE(UMB), B3 3m HF, ANT_00075962 HORIZONTAL Detector : Peak Project : 820904 Mode : 24 Setting : 64</p>	Left blank



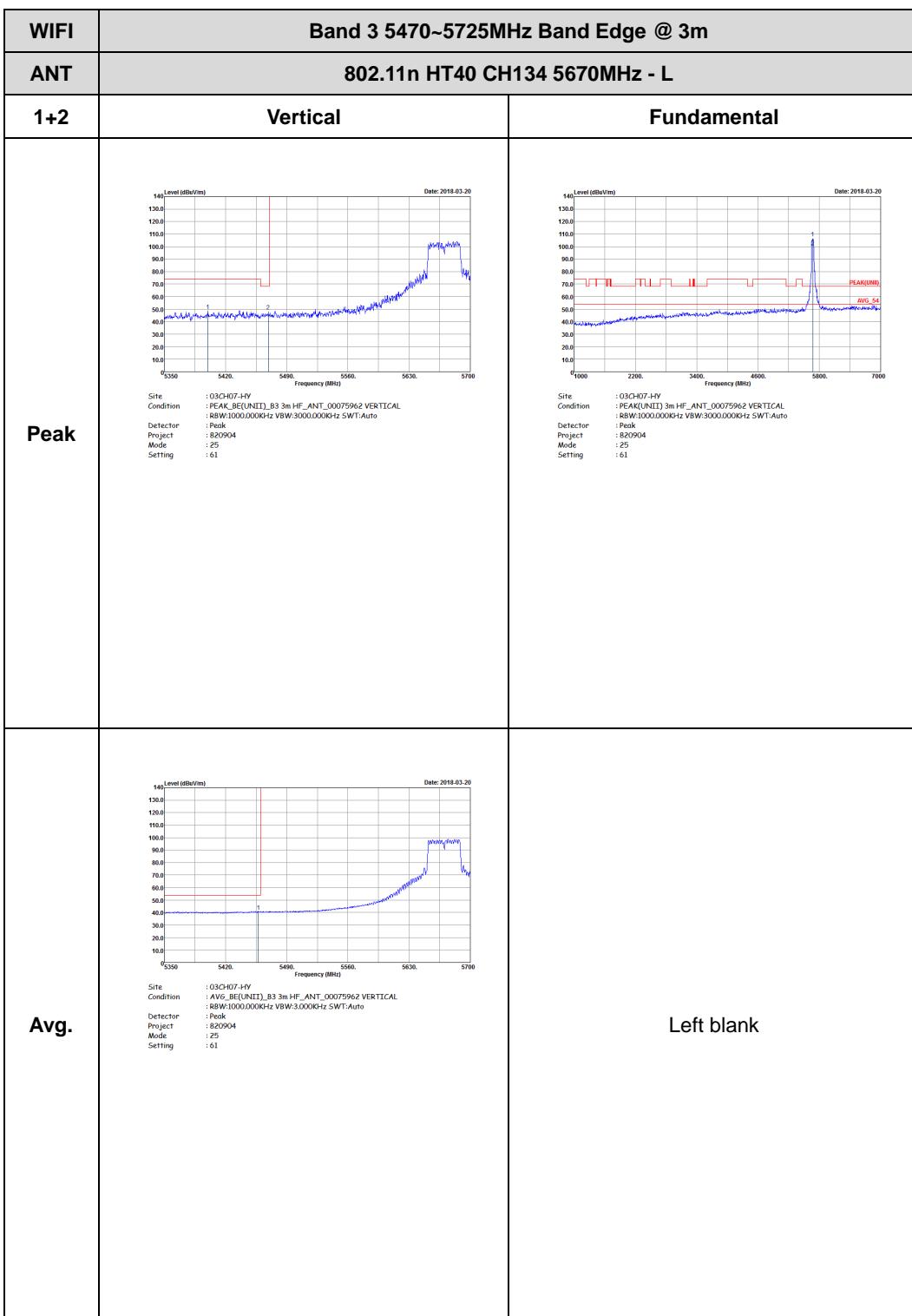


WIFI	Band 3 5470~5725MHz Band Edge @ 3m															
ANT	802.11n HT40 CH110 5550MHz - R															
1+2	Vertical	Fundamental														
Peak	<p>The figure is a line graph titled "Level (dBm/V/m)" on the y-axis and "Frequency (MHz)" on the x-axis. The y-axis ranges from 10.0 to 140.0 in increments of 10.0. The x-axis shows frequencies from 5450 to 5765 MHz in increments of 15 MHz. A blue line represents the signal level, which is relatively flat around 60 dBm/V/m until approximately 5545 MHz, where it rises sharply to a peak of about 135 dBm/V/m at 5550 MHz. After the peak, the signal level decreases rapidly, reaching approximately 50 dBm/V/m by 5570 MHz and remaining relatively stable thereafter. Two red vertical lines mark the peak frequency (5550 MHz) and the center frequency (5550 MHz). The plot is dated "2018-03-20". Below the plot, there is a table of test parameters:</p> <table><tr><td>Site</td><td>: 034-07-HV</td></tr><tr><td>Condition</td><td>: FCC-BE(UNID)_B3 3m HF..ANT_00075962 VERTICAL</td></tr><tr><td>Detector</td><td>: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto</td></tr><tr><td>Project</td><td>: Peak</td></tr><tr><td>Mode</td><td>: 820904</td></tr><tr><td>Setting</td><td>: 24</td></tr><tr><td></td><td>: 64</td></tr></table>	Site	: 034-07-HV	Condition	: FCC-BE(UNID)_B3 3m HF..ANT_00075962 VERTICAL	Detector	: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto	Project	: Peak	Mode	: 820904	Setting	: 24		: 64	Left blank
Site	: 034-07-HV															
Condition	: FCC-BE(UNID)_B3 3m HF..ANT_00075962 VERTICAL															
Detector	: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto															
Project	: Peak															
Mode	: 820904															
Setting	: 24															
	: 64															





WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBm/V/m)</p> <p>Frequency (MHz)</p> <p>Date: 2018-03-20</p> <p>Site : 034-H7-HV Condition : FCC-BE(UNID), B3 3m HF...ANT_00075962 HORIZONTAL Detector : Peak Project : 820904 Mode : 25 Setting : 61</p>	Left blank

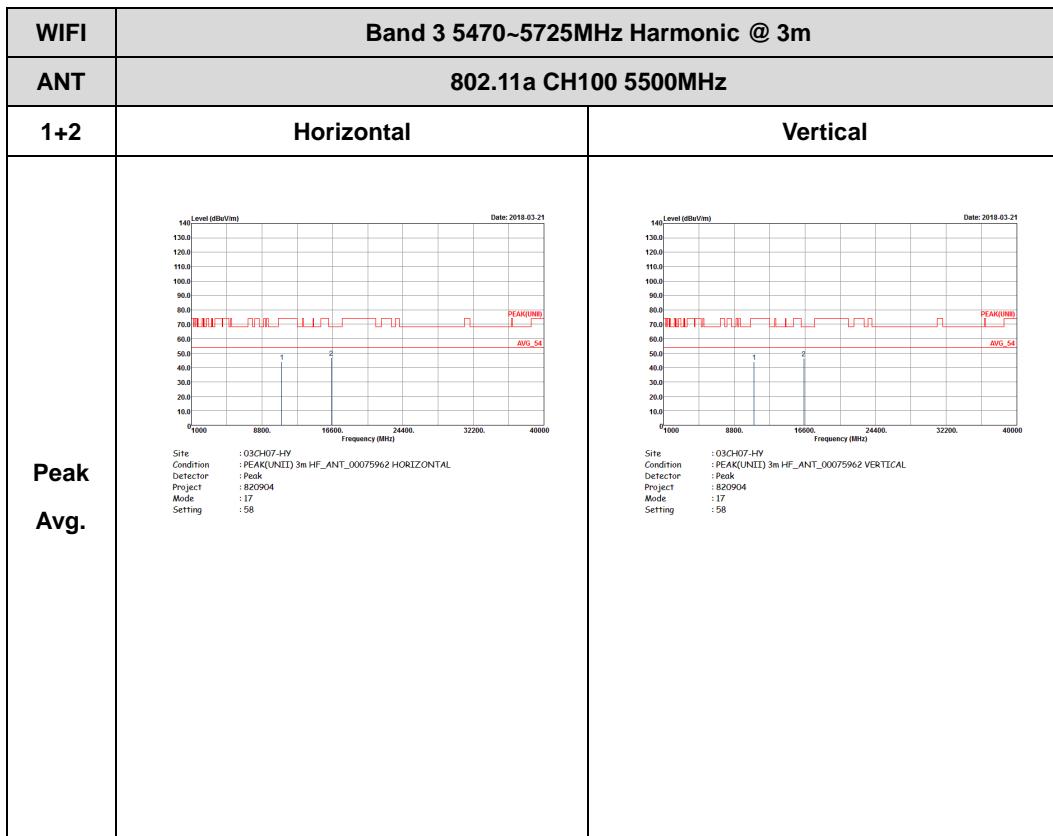


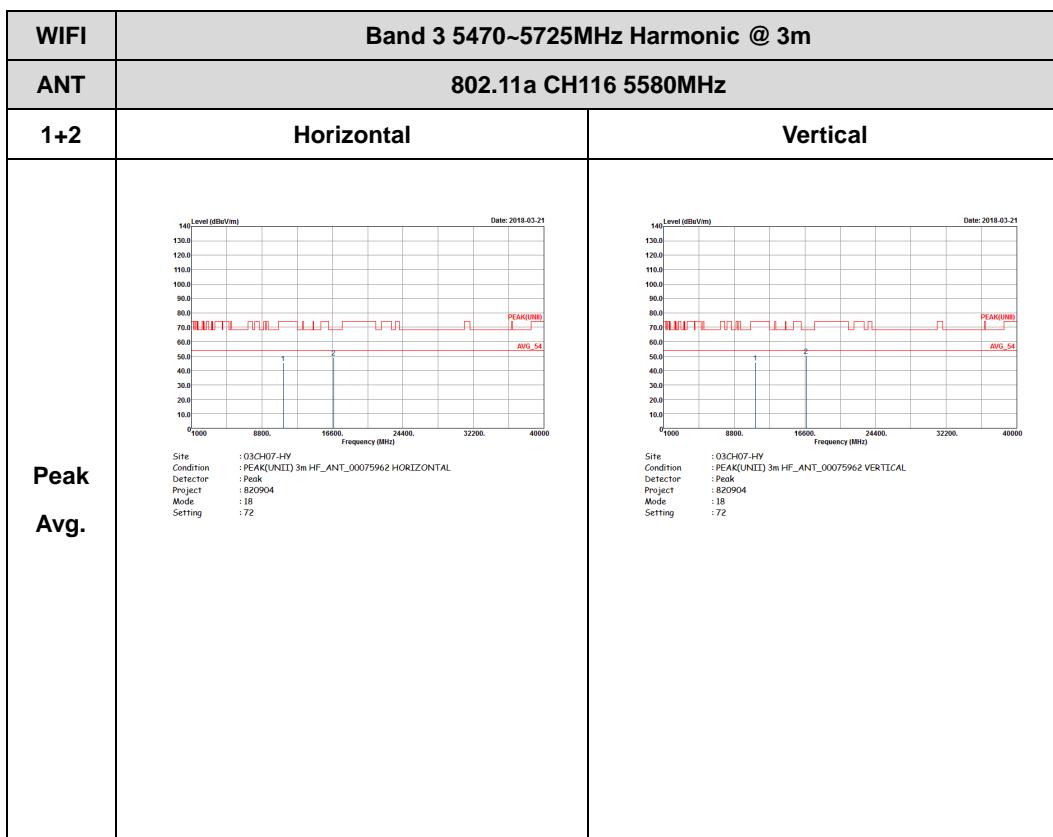


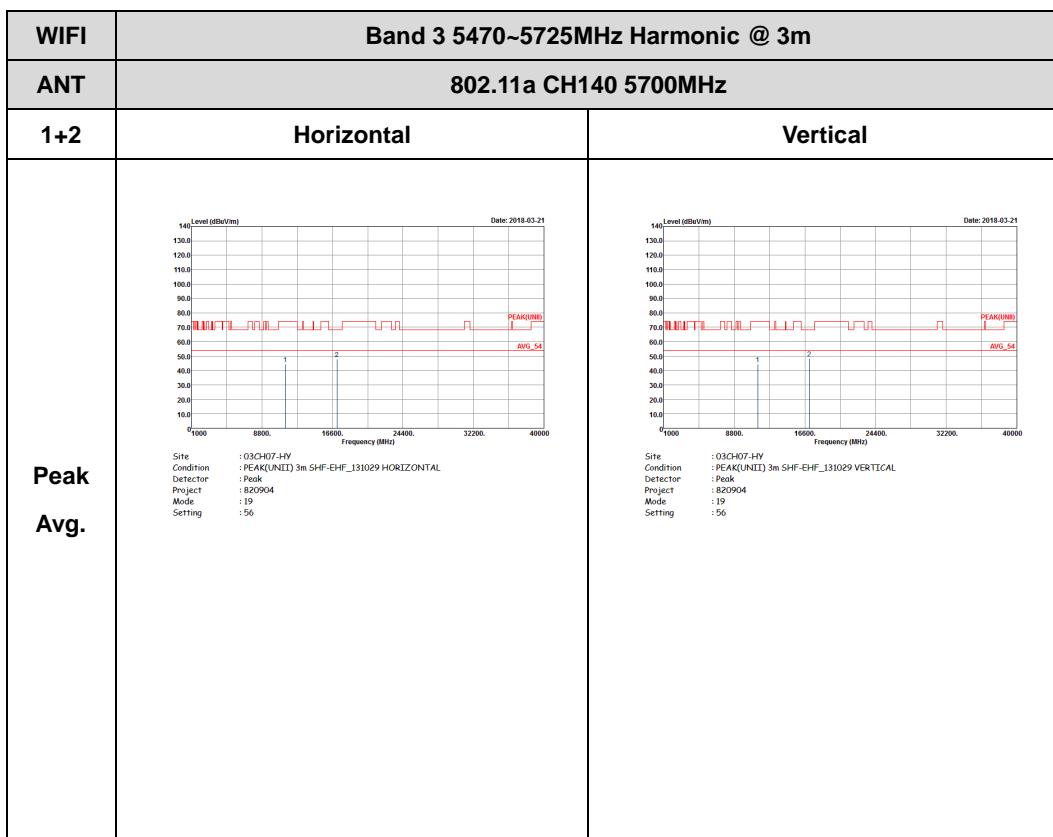
WIFI	Band 3 5470~5725MHz Band Edge @ 3m													
ANT	802.11n HT40 CH134 5670MHz - R													
1+2	Vertical	Fundamental												
Peak	<p>The figure is a line graph titled "Level (dBmV/m)" on the y-axis and "Frequency (MHz)" on the x-axis. The y-axis ranges from 10.0 to 140.0 in increments of 10.0. The x-axis ranges from 5630 to 5765 in increments of 25. A blue line represents the signal level, which is relatively flat around 55 dBmV/m until approximately 5665 MHz, where it rises sharply to about 105 dBmV/m, then drops back down. A red vertical line marks the peak at 5670 MHz. The plot is dated 2018-03-20. Below the plot is a table of test parameters:</p> <table><tr><td>Site</td><td>: 034-H7-HV</td></tr><tr><td>Condition</td><td>: FCC-BE(UNID), B3 3m HF..ANT_00075962 VERTICAL</td></tr><tr><td>Detector</td><td>: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto</td></tr><tr><td>Project</td><td>: Peak</td></tr><tr><td>Mode</td><td>: 25</td></tr><tr><td>Setting</td><td>: 61</td></tr></table>	Site	: 034-H7-HV	Condition	: FCC-BE(UNID), B3 3m HF..ANT_00075962 VERTICAL	Detector	: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto	Project	: Peak	Mode	: 25	Setting	: 61	Left blank
Site	: 034-H7-HV													
Condition	: FCC-BE(UNID), B3 3m HF..ANT_00075962 VERTICAL													
Detector	: 188W1000.0000KHz VSW-3000.0000Hz SWF!Auto													
Project	: Peak													
Mode	: 25													
Setting	: 61													



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

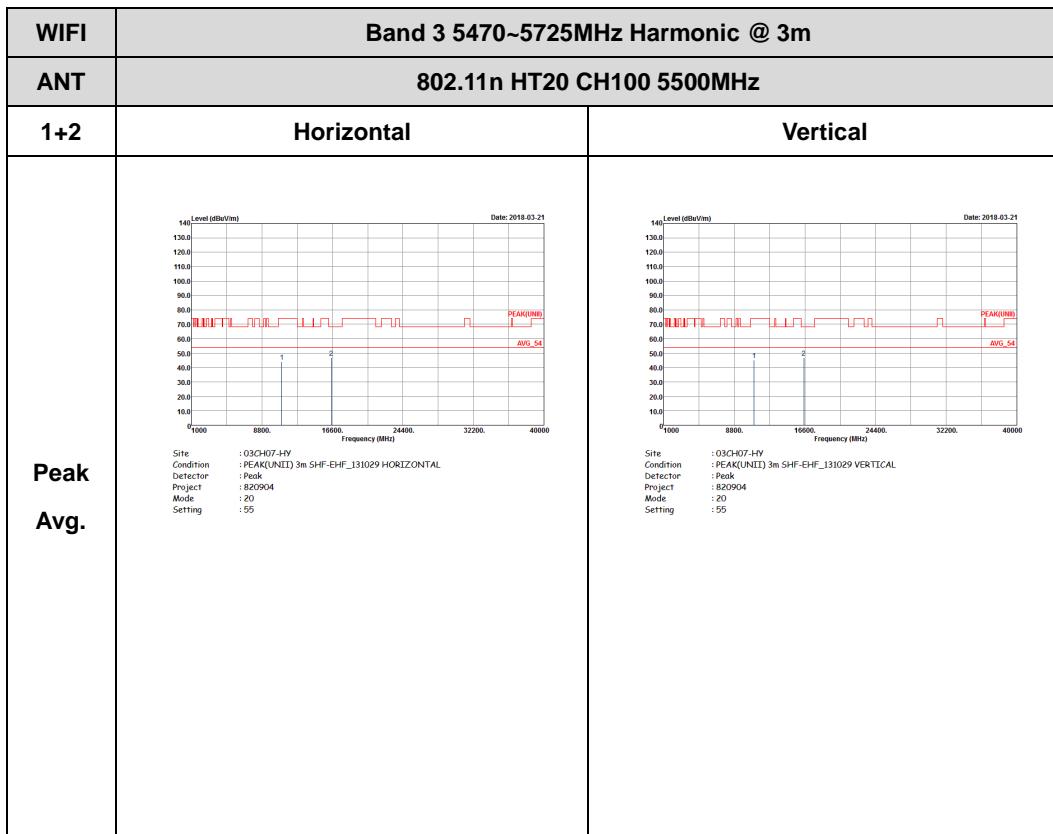


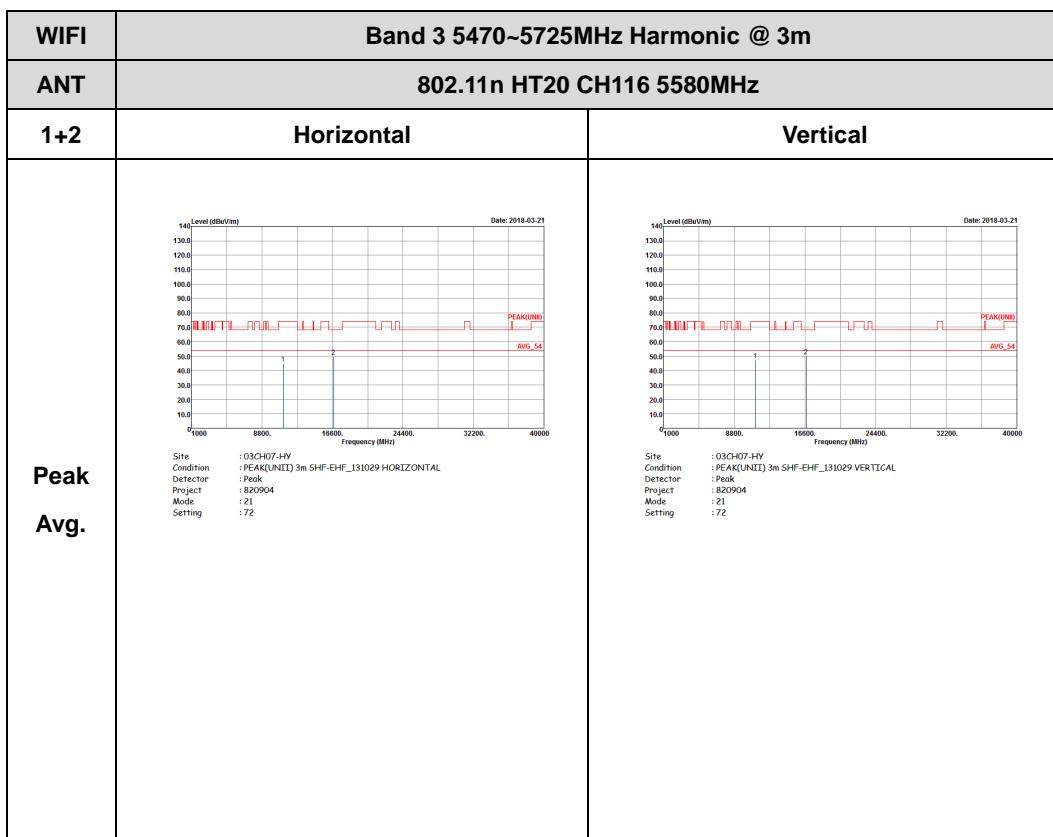


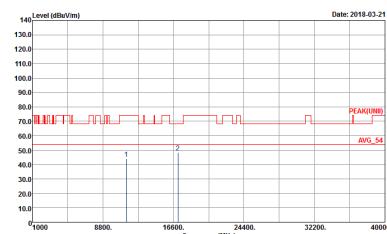
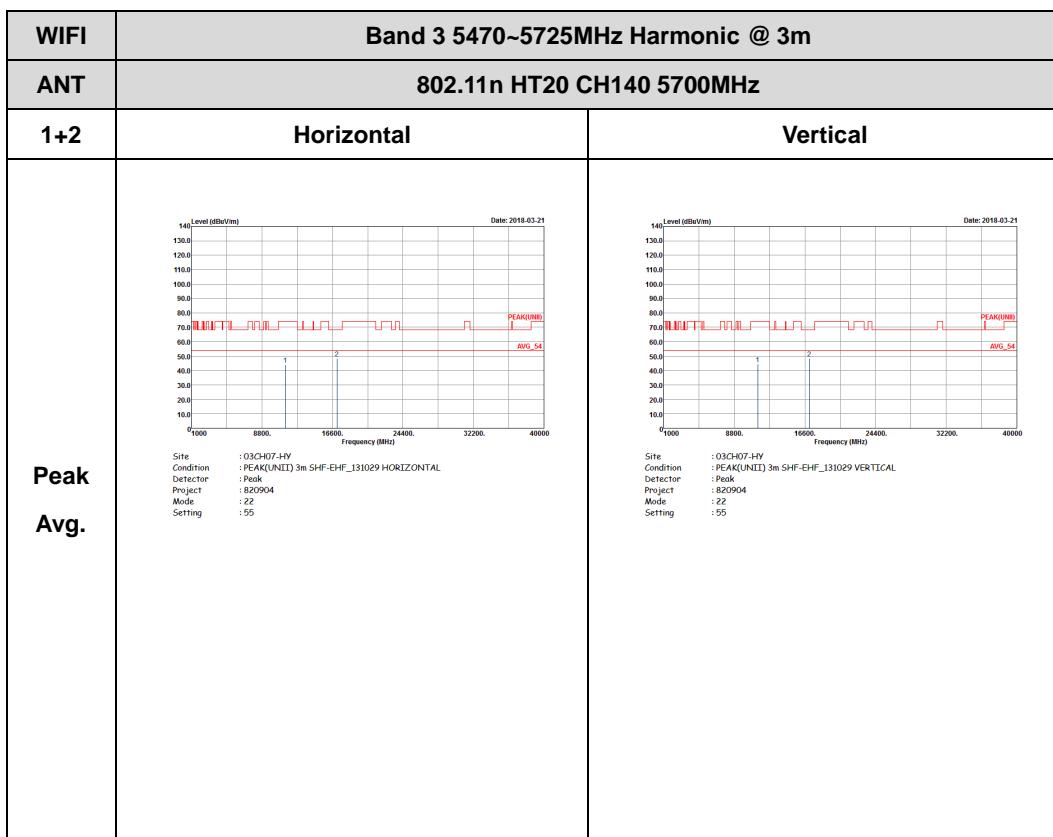




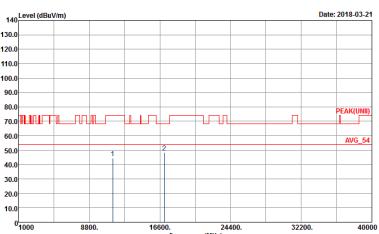
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)







Site : 03G107-HY
Condition : FCC40(UNII) 3m SHF-EHF_131029 HORIZONTAL
Detector : Peak
Project : 820904
Mode : 22
Setting : 55

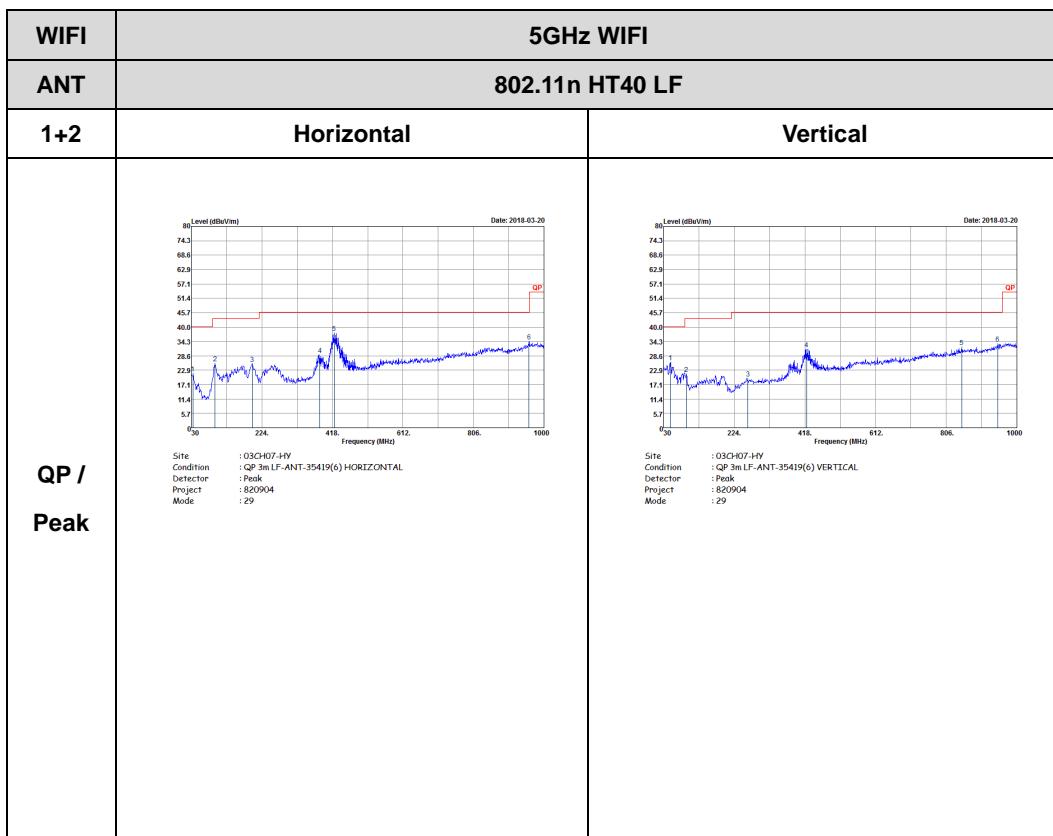


Site : 03G107-HY
Condition : FCC40(UNII) 3m SHF-EHF_131029 VERTICAL
Detector : Peak
Project : 820904
Mode : 22
Setting : 55



Emission below 1GHz

5GHz WIFI 802.11n HT40 (LF)





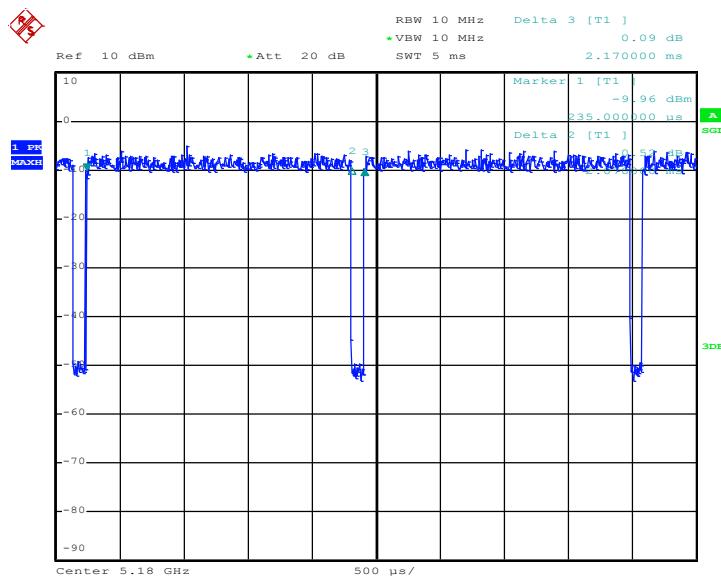
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant. 1	95.39	2070	0.48	1kHz	0.20
1+2	802.11a for Ant. 2	94.95	2070	0.48	1kHz	0.23
1+2	5GHz 802.11n HT20 for Ant. 1	95.05	1920	0.52	1kHz	0.22
1+2	5GHz 802.11n HT20 for Ant. 2	94.55	1910	0.52	1kHz	0.24
1+2	5GHz 802.11n HT40 for Ant. 1	89.32	920	1.09	3kHz	0.49
1+2	5GHz 802.11n HT40 for Ant. 2	89.42	930	1.06	3kHz	0.49



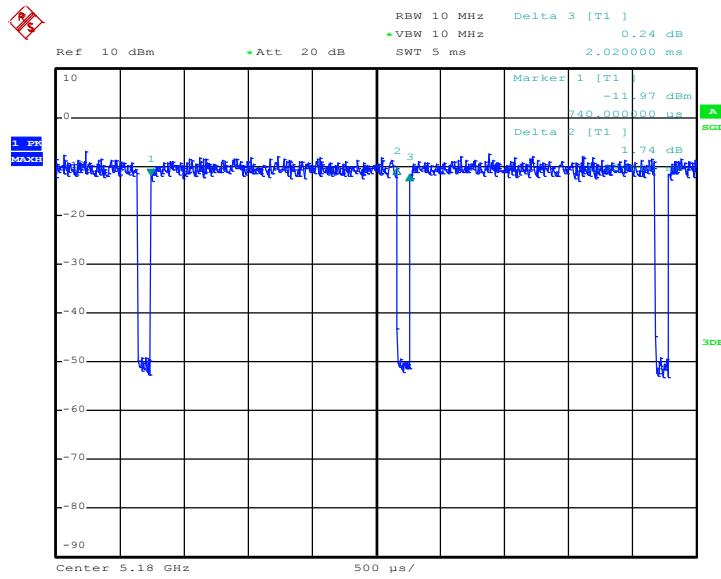
MIMO <Ant. 1>

802.11a



Date: 20.JAN.2018 00:23:32

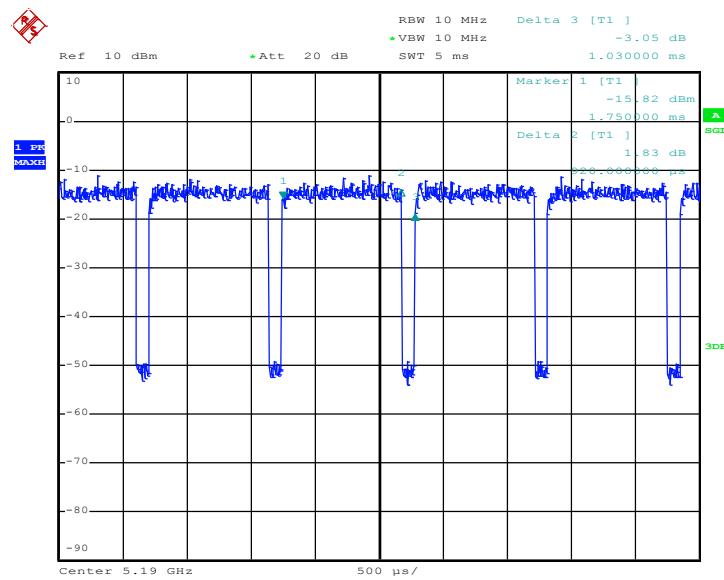
802.11n HT20



Date: 20.JAN.2018 00:28:21



802.11n HT40

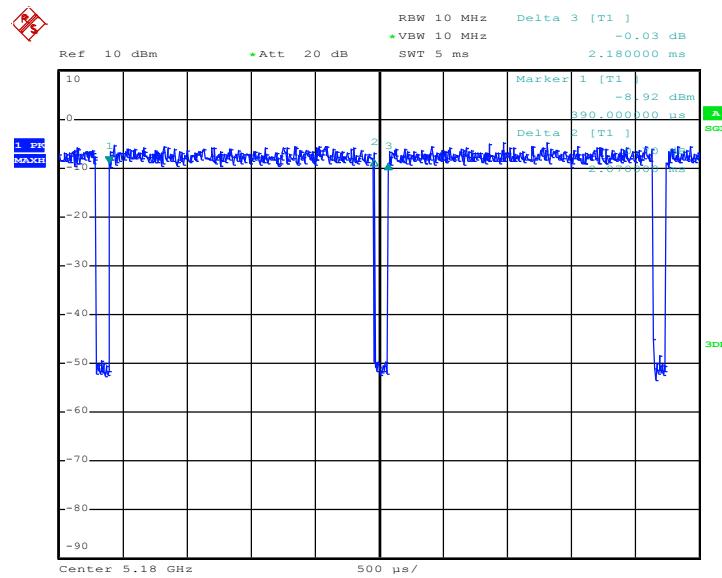


Date: 20.JAN.2018 00:30:45



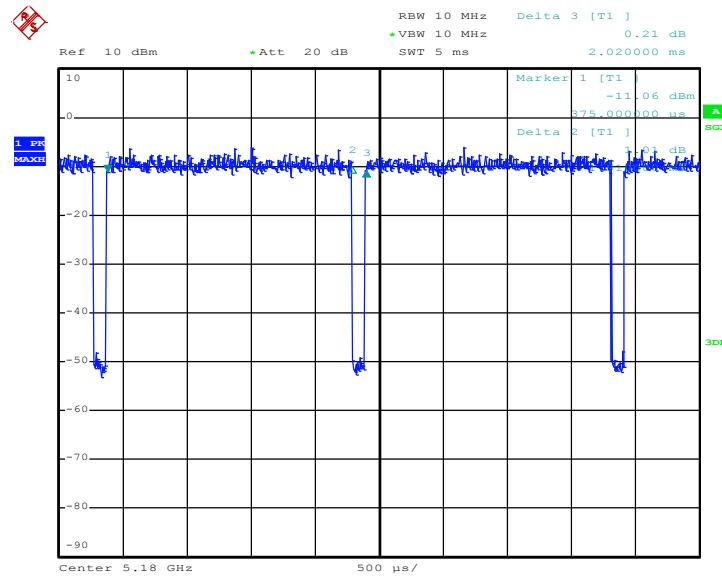
MIMO <Ant. 2>

802.11a



Date: 20.JAN.2018 00:24:13

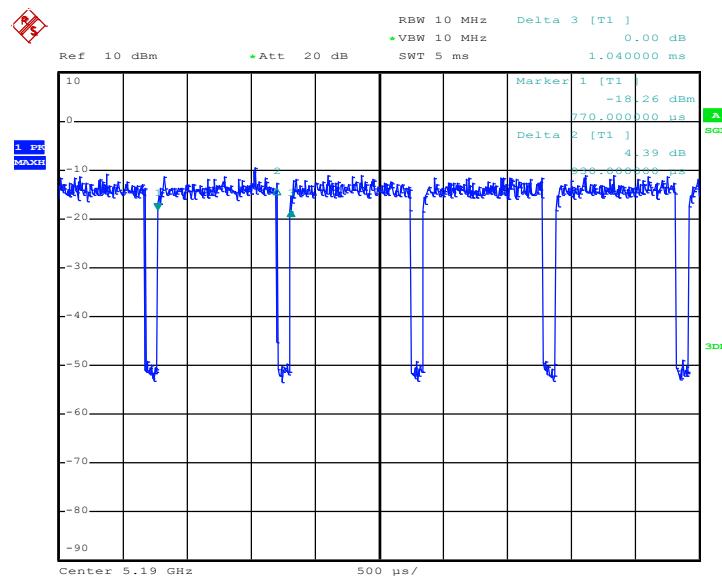
802.11n HT20



Date: 20.JAN.2018 00:28:52



802.11n HT40



Date: 20.JAN.2018 00:31:49

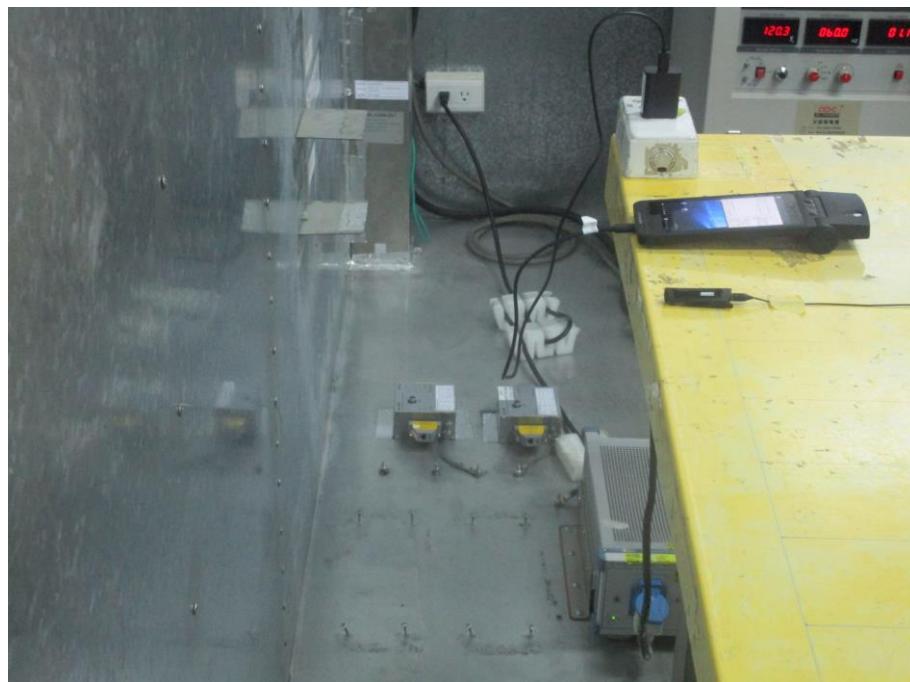


Appendix F. Setup Photographs

<Conducted Emission>

Remote View





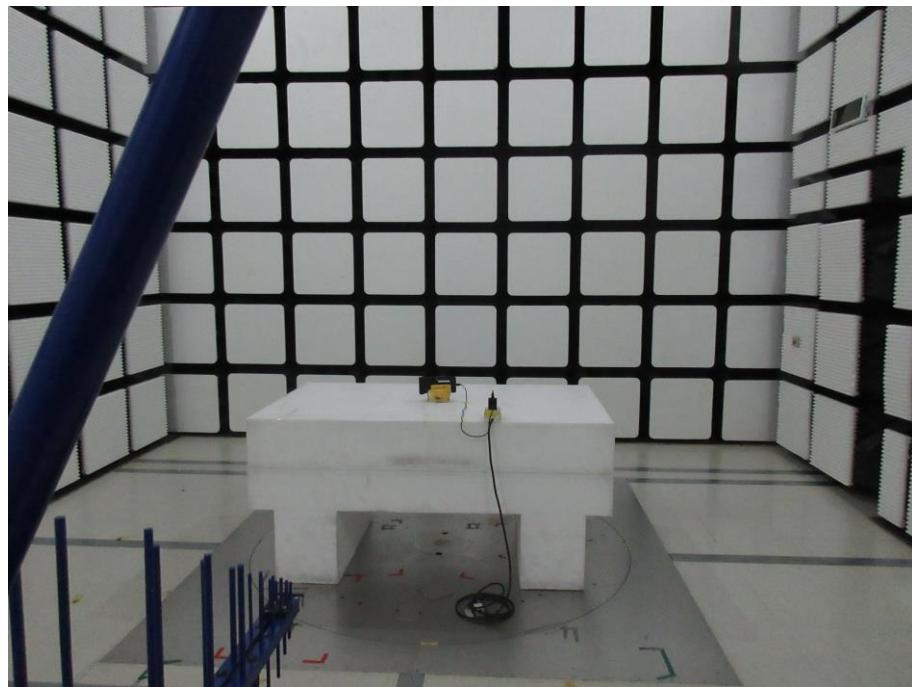
Rear View



<Radiated Emission>

Z Plane

LF



HF

