



FCC RF Test Report

APPLICANT : HMD Global Oy
EQUIPMENT : Smart Phone
BRAND NAME : NOKIA
MODEL NAME : TA-1004
FCC ID : 2AJOTTA-1004
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Jan. 21, 2017 and testing was completed on Apr. 08, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR712102E	Rev. 01	Initial issue of report	May 25, 2017



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 (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band) & 15.209(a)	Pass	Under limit 4.60 dB at 15960.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.90 dB at 0.606 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

HMD Global Oy

Karaportti 2, 02610 Espoo, Finland

1.2 Manufacturer

HMD Global Oy

Karaportti 2, 02610 Espoo, Finland

1.3 Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/Beidou: Monopole Antenna NFC: Loop Antenna

1.4 Modification of EUT

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



1.5 Testing Location

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

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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY	

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

1.6 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 v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- 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
	42#	5210		

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

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

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

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

Note:

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



2.2 Test Mode

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

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

MIMO Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases

AC Conducted Emission	Mode 1 : LTE Band 4 Idle + Bluetooth Link + WLAN (5GHz) Link + Earphone + USB Cable (Charging from Adapter) + Camera (Front) + SIM 1
-----------------------	--

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



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

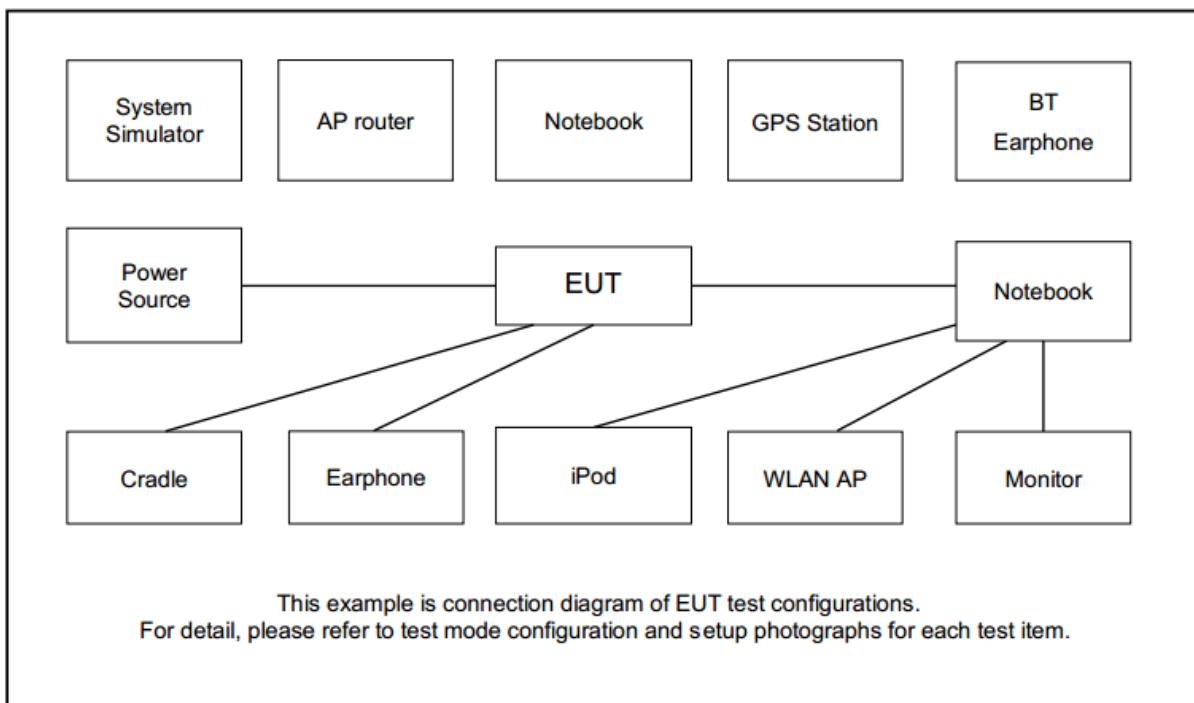
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "QRCT" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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



3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

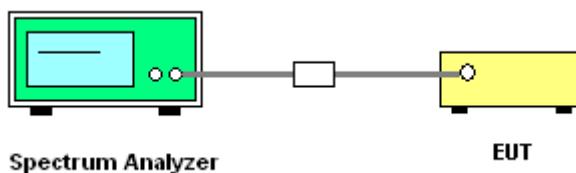
3.1.2 Measuring Instruments

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 v01r04.
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.

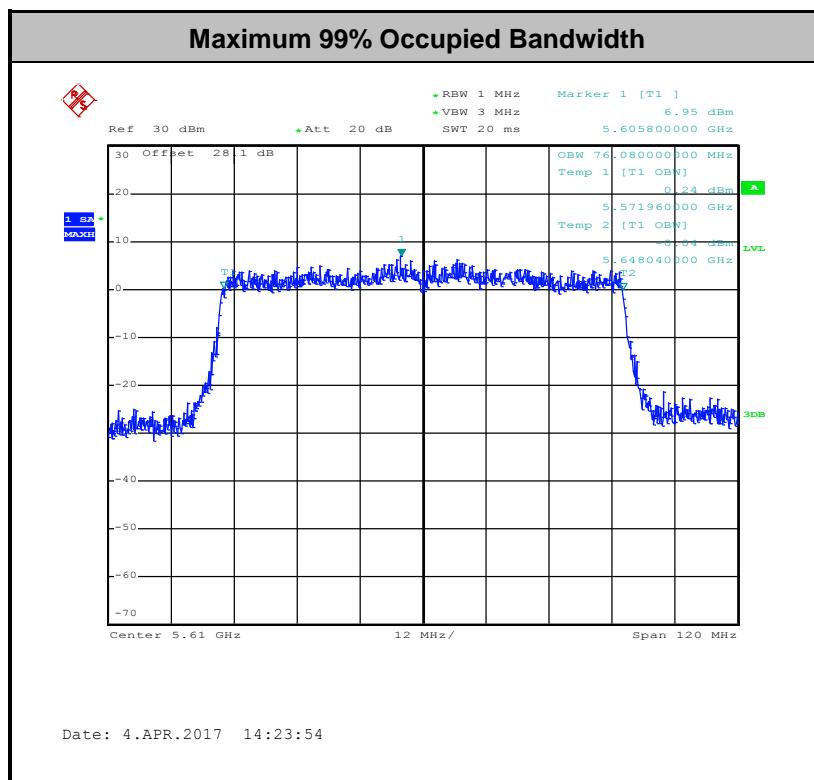
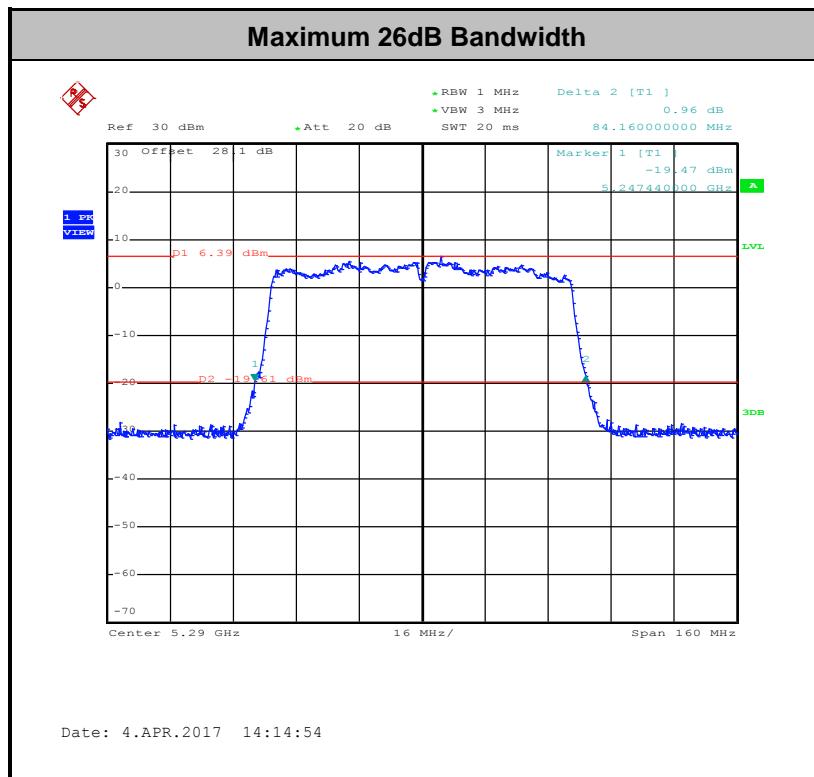
3.1.4 Test Setup





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

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 $11 \text{ dBm} - 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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 v01r04 for CDD modes.

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

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

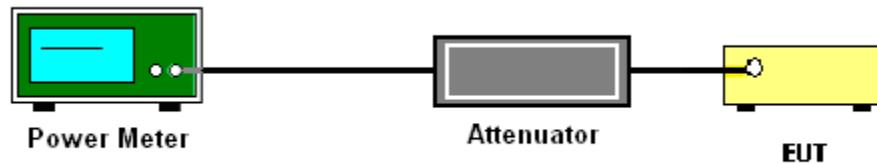
For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

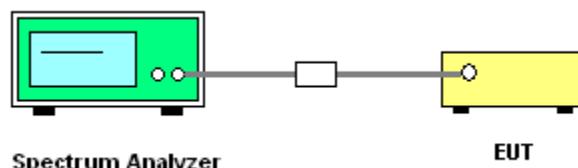


3.2.4 Test Setup

For normal channel:



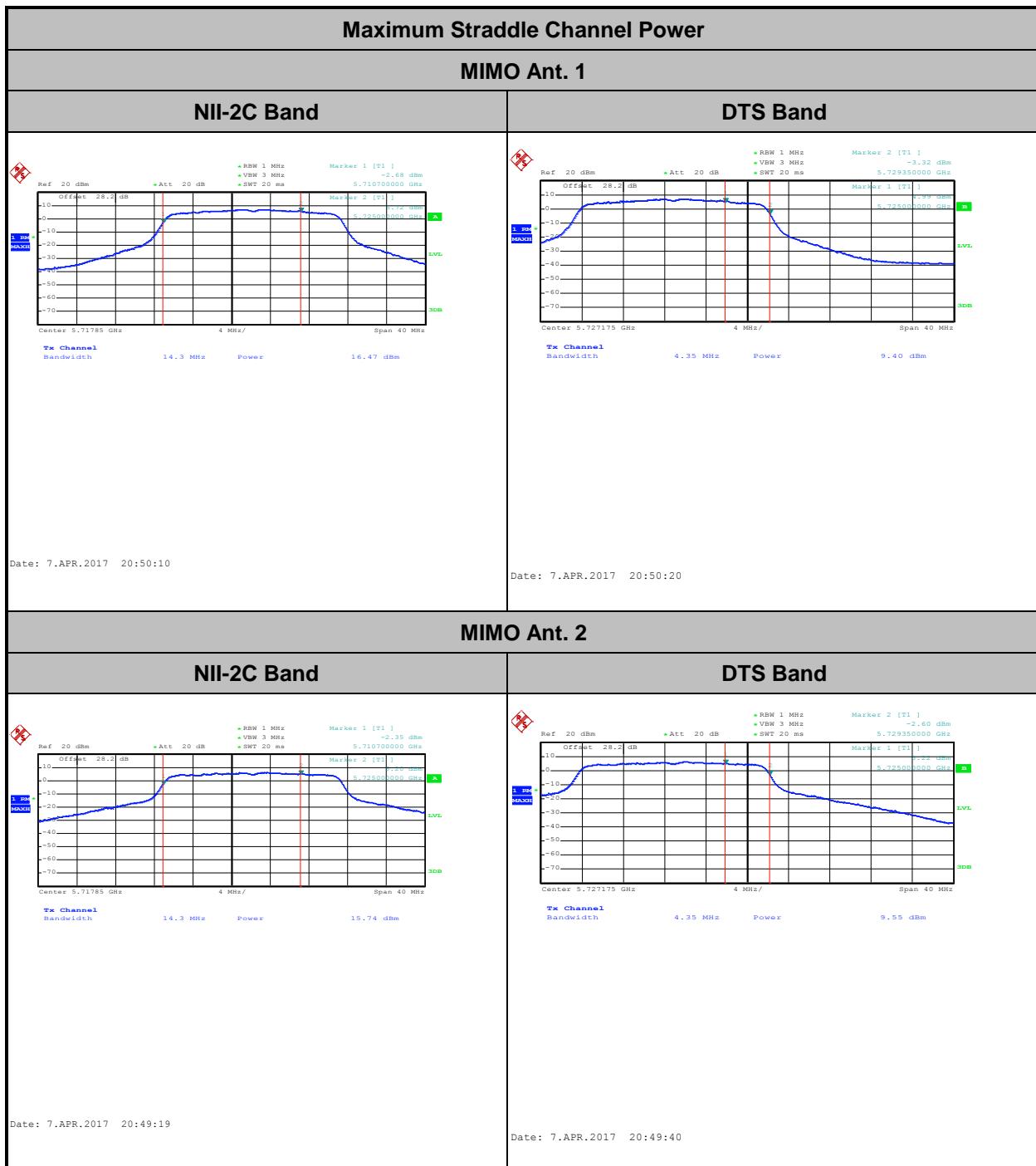
For straddle channel:





3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.





3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm 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.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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 v01r04.

Section F) Maximum power spectral density.

Method SA-2

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

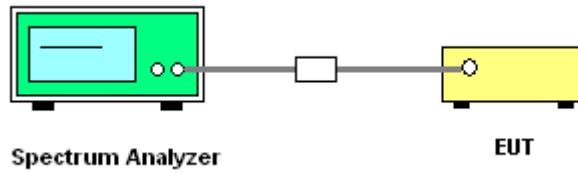
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - 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.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

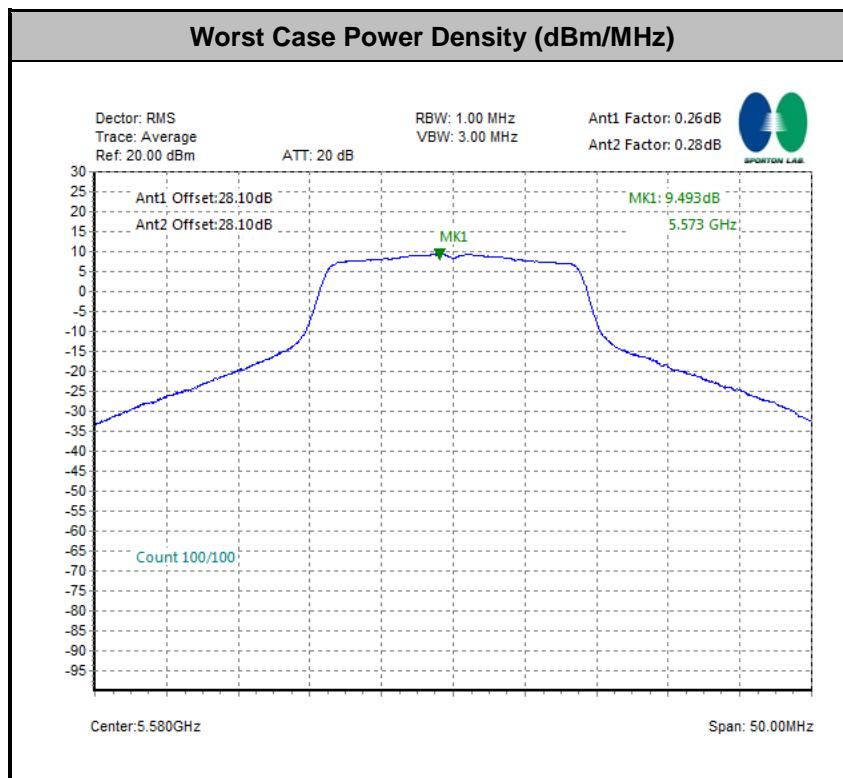


3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





3.4 Unwanted Emissions Measurement

This section 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 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

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

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

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

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

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



(3) KDB789033 D02 v01r04 G)2)c)

- (i) Sections 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.

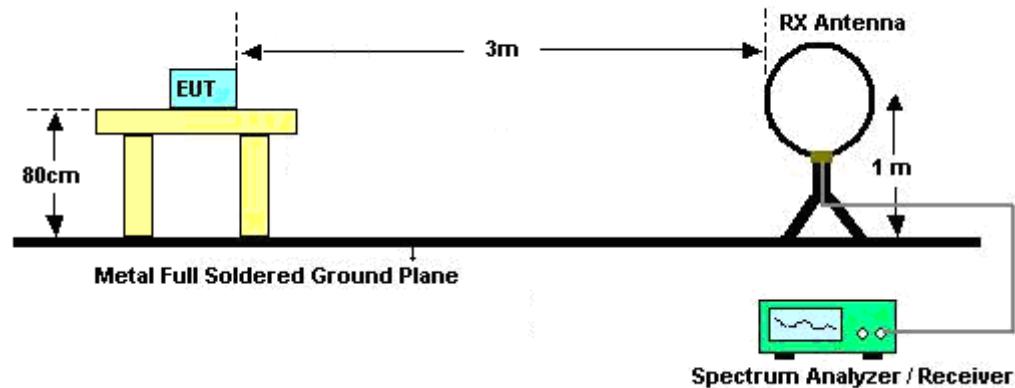


3.4.3 Test Procedures

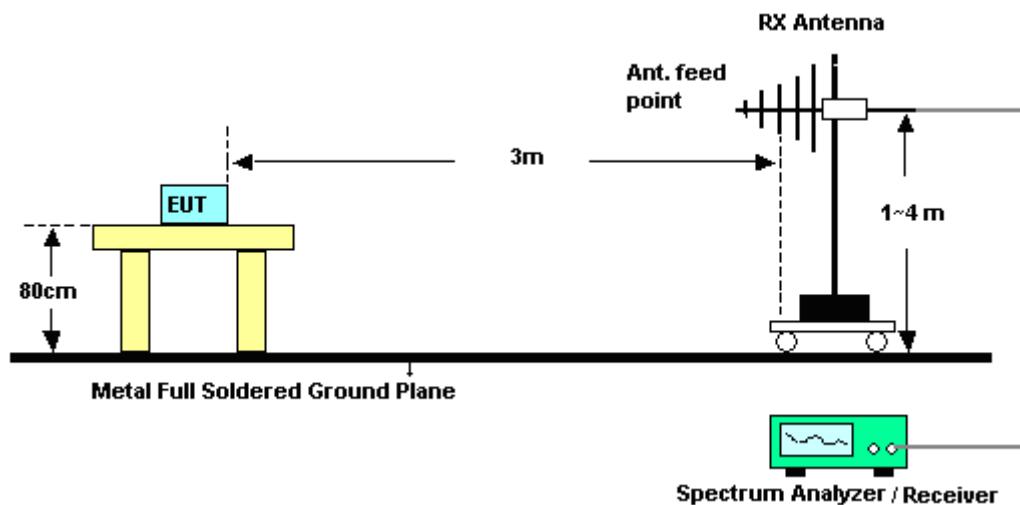
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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

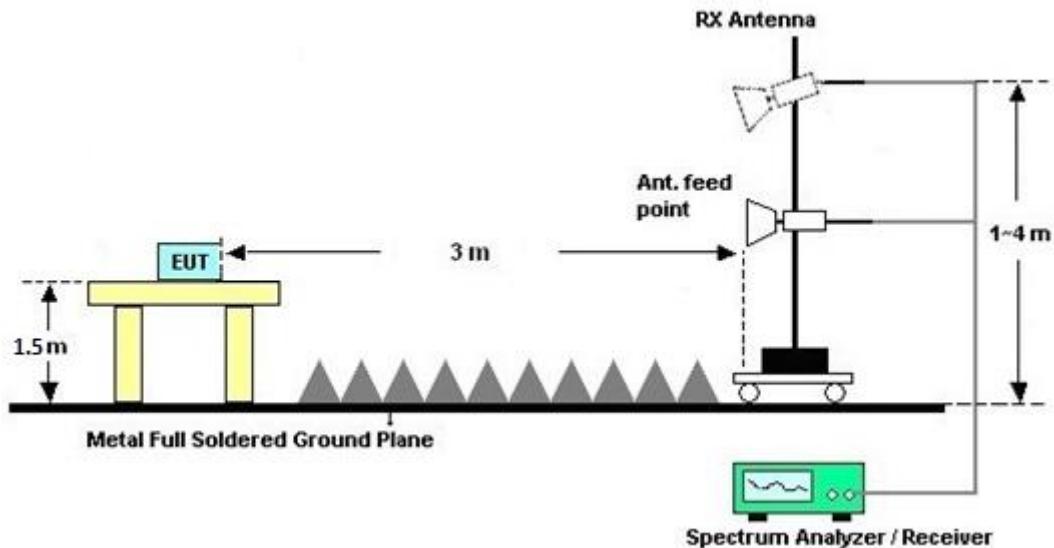
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

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.

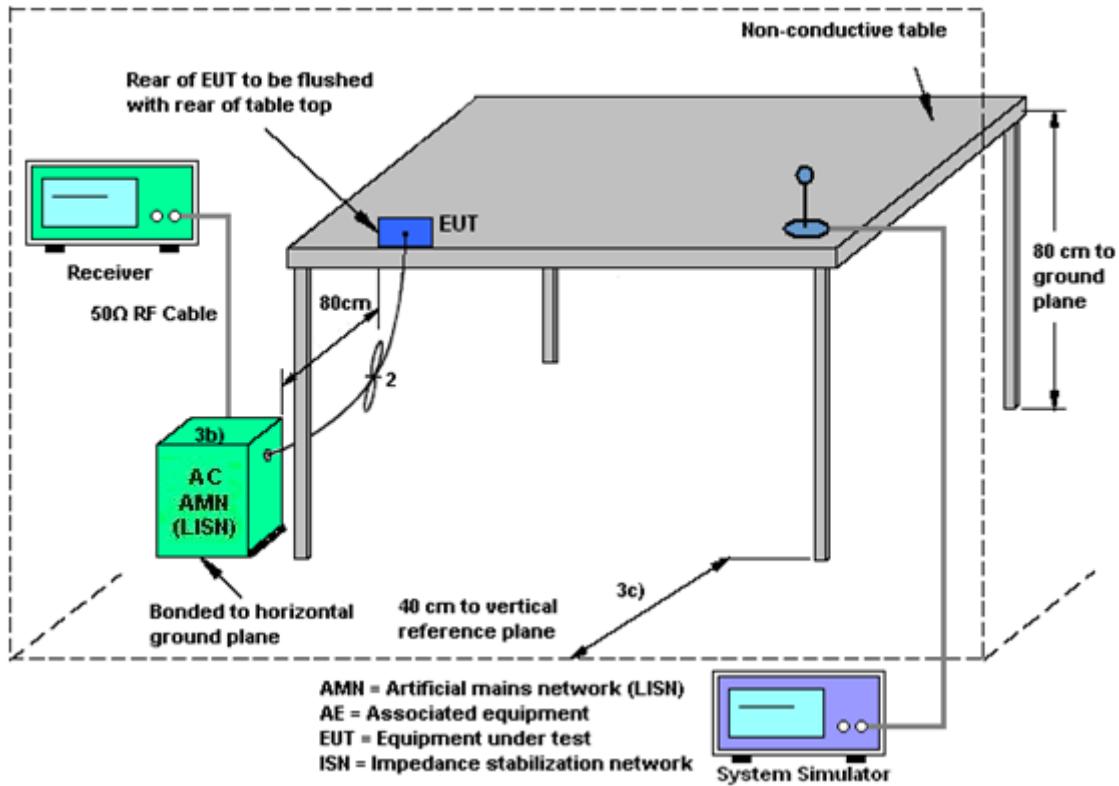
3.5.2 Measuring Instruments

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 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

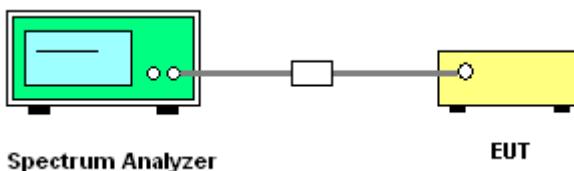
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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



3.8 Antenna Requirements

3.8.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

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

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F2)f)i).

For PSD, the directional gain calculation is following F2)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.

			DG for Power	DG for PSD	Power Limit	PSD Limit
	Ant 1 (dBi)	Ant 2 (dBi)	Power (dBi)	PSD (dBi)	Reduction (dB)	Reduction (dB)
Band I	-5.30	-4.90	-4.90	-2.09	0.00	0.00
Band II	-4.90	-4.70	-4.70	-1.79	0.00	0.00
Band III	-4.30	-4.30	-4.30	-1.29	0.00	0.00

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	300MHz~40GHz	Sep. 29, 2016	Mar. 27, 2017 ~ Apr. 08, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Mar. 27, 2017 ~ Apr. 08, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Mar. 27, 2017 ~ Apr. 08, 2017	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 01, 2016	Mar. 27, 2017 ~ Apr. 08, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Mar. 27, 2017 ~ Apr. 08, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 27, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Mar. 27, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Mar. 27, 2017	Nov. 28, 2017	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 15, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 07, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Oct. 06, 2017	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Oct. 19, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 12, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Oct. 11, 2017	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 28, 2017 ~ Apr. 05, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 28, 2017 ~ Apr. 05, 2017	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 01, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Nov. 30, 2017	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Jun. 13, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 08, 2016	Mar. 28, 2017 ~ Apr. 05, 2017	Nov. 07, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Mar. 28, 2017 ~ Apr. 05, 2017	Jan. 11, 2018	Radiation (03CH11-HY)



5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{C(y)}$)	5.2
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Appendix A. Conducted Test Results

Test Engineer:	Aking Chang	Temperature:	21~25	°C
Test Date:	2017/03/27 ~ 2017/04/08	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	17.50	17.55	24.30	25.50	-		22.43		
11a	6Mbps	2	44	5220	17.40	17.50	25.20	26.10	-		22.41		
11a	6Mbps	2	48	5240	17.30	17.60	23.90	26.50	-		22.38		
HT20	MCS0	2	36	5180	18.70	18.55	25.50	26.20	-		22.68		
HT20	MCS0	2	44	5220	18.45	18.80	25.30	29.50	-		22.66		
HT20	MCS0	2	48	5240	18.70	18.65	26.20	27.70	-		22.71		
HT40	MCS0	2	38	5190	36.50	36.70	41.94	42.66	-		23.01		
HT40	MCS0	2	46	5230	36.60	36.60	41.94	41.94	-		23.01		
VHT80	MCS0	2	42	5210	75.72	75.96	83.52	83.20	-		23.01		

TEST RESULTS DATA
Average Power Table

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	1	36	5180	0.22	0.24	16.90	16.84		24.00	24.00	-5.30	-4.90	
11a	6Mbps	1	44	5220	0.22	0.24	16.77	16.76		24.00	24.00	-5.30	-4.90	
11a	6Mbps	1	48	5240	0.22	0.24	16.74	16.74		24.00	24.00	-5.30	-4.90	
HT20	MCS0	1	36	5180	0.26	0.26	16.77	16.74		24.00	24.00	-5.30	-4.90	
HT20	MCS0	1	44	5220	0.26	0.26	16.56	16.57		24.00	24.00	-5.30	-4.90	
HT20	MCS0	1	48	5240	0.26	0.26	16.64	16.61		24.00	24.00	-5.30	-4.90	
HT40	MCS0	1	38	5190	0.44	0.47	16.70	16.64		24.00	24.00	-5.30	-4.90	
HT40	MCS0	1	46	5230	0.44	0.47	16.64	16.63		24.00	24.00	-5.30	-4.90	
VHT20	MCS0	1	36	5180	0.26	0.24	15.78	15.69		24.00	24.00	-5.30	-4.90	
VHT20	MCS0	1	44	5220	0.26	0.24	15.72	15.53		24.00	24.00	-5.30	-4.90	
VHT20	MCS0	1	48	5240	0.26	0.24	15.58	15.63		24.00	24.00	-5.30	-4.90	
VHT40	MCS0	1	38	5190	0.44	0.48	15.84	15.75		24.00	24.00	-5.30	-4.90	
VHT40	MCS0	1	46	5230	0.44	0.48	15.62	15.63		24.00	24.00	-5.30	-4.90	
VHT80	MCS0	1	42	5210	0.89	0.88	14.69	14.53		24.00	24.00	-5.30	-4.90	
11a	6Mbps	2	36	5180	0.26	0.24	17.17	16.74	19.98	24.00		-4.90		
11a	6Mbps	2	44	5220	0.26	0.24	16.91	16.75	19.85	24.00		-4.90		
11a	6Mbps	2	48	5240	0.26	0.24	16.82	16.69	19.77	24.00		-4.90		
HT20	MCS0	2	36	5180	0.26	0.28	16.92	16.83	19.89	24.00		-4.90		
HT20	MCS0	2	44	5220	0.26	0.28	16.50	16.76	19.64	24.00		-4.90		
HT20	MCS0	2	48	5240	0.26	0.28	16.42	16.84	19.65	24.00		-4.90		
HT40	MCS0	2	38	5190	0.47	0.46	17.12	16.71	19.93	24.00		-4.90		
HT40	MCS0	2	46	5230	0.47	0.46	16.86	16.41	19.65	24.00		-4.90		
VHT20	MCS0	2	36	5180	0.26	0.27	16.01	15.66	18.85	24.00		-4.90		
VHT20	MCS0	2	44	5220	0.26	0.27	15.98	15.57	18.79	24.00		-4.90		
VHT20	MCS0	2	48	5240	0.26	0.27	15.46	15.82	18.65	24.00		-4.90		
VHT40	MCS0	2	38	5190	0.47	0.45	16.02	15.71	18.88	24.00		-4.90		
VHT40	MCS0	2	46	5230	0.47	0.45	15.83	15.82	18.84	24.00		-4.90		
VHT80	MCS0	2	42	5210	0.88	0.98	14.83	14.73	17.79	24.00		-4.90		

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	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.26	0.24			8.49	11.00		-2.09		Pass
11a	6Mbps	2	44	5220	0.26	0.24			8.37	11.00		-2.09		Pass
11a	6Mbps	2	48	5240	0.26	0.24			8.61	11.00		-2.09		Pass
HT20	MCS0	2	36	5180	0.26	0.28			8.57	11.00		-2.09		Pass
HT20	MCS0	2	44	5220	0.26	0.28			8.01	11.00		-2.09		Pass
HT20	MCS0	2	48	5240	0.26	0.28			7.90	11.00		-2.09		Pass
HT40	MCS0	2	38	5190	0.47	0.46			5.31	11.00		-2.09		Pass
HT40	MCS0	2	46	5230	0.47	0.46			5.07	11.00		-2.09		Pass
VHT80	MCS0	2	42	5210	0.88	0.98			0.42	11.00		-2.09		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II														
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)		FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	17.40	17.70	24.10	26.50	23.41		29.41		23.98	
11a	6Mbps	2	60	5300	17.50	17.60	24.20	26.70	23.43		29.43		23.98	
11a	6Mbps	2	64	5320	17.50	17.65	24.80	26.60	23.43		29.43		23.98	
HT20	MCS0	2	52	5260	18.40	18.75	24.40	29.20	23.65		29.65		23.98	
HT20	MCS0	2	60	5300	18.65	18.80	25.60	29.10	23.71		29.71		23.98	
HT20	MCS0	2	64	5320	18.45	18.85	25.70	28.80	23.66		29.66		23.98	
HT40	MCS0	2	54	5270	36.50	36.70	42.12	42.30	23.98		30.00		23.98	
HT40	MCS0	2	62	5310	36.60	36.70	41.76	41.94	23.98		30.00		23.98	
VHT80	MCS0	2	58	5290	75.96	75.96	84.16	83.84	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	1	52	5260	0.22	0.24	16.66	16.64			-4.90	-4.70	26.99	Pass	
11a	6Mbps	1	60	5300	0.22	0.24	16.82	16.74			-4.90	-4.70	26.99	Pass	
11a	6Mbps	1	64	5320	0.22	0.24	16.89	16.75			-4.90	-4.70	26.99	Pass	
HT20	MCS0	1	52	5260	0.26	0.26	16.84	16.70			-4.90	-4.70	26.99	Pass	
HT20	MCS0	1	60	5300	0.26	0.26	16.72	16.51			-4.90	-4.70	26.99	Pass	
HT20	MCS0	1	64	5320	0.26	0.26	16.71	16.71			-4.90	-4.70	26.99	Pass	
HT40	MCS0	1	54	5270	0.44	0.47	16.50	16.57			-4.90	-4.70	26.99	Pass	
HT40	MCS0	1	62	5310	0.44	0.47	16.54	16.63			-4.90	-4.70	26.99	Pass	
VHT20	MCS0	1	52	5260	0.26	0.24	15.51	15.63			-4.90	-4.70	26.99	Pass	
VHT20	MCS0	1	60	5300	0.26	0.24	15.56	15.67			-4.90	-4.70	26.99	Pass	
VHT20	MCS0	1	64	5320	0.26	0.24	15.76	15.68			-4.90	-4.70	26.99	Pass	
VHT40	MCS0	1	54	5270	0.44	0.48	15.78	15.62			-4.90	-4.70	26.99	Pass	
VHT40	MCS0	1	62	5310	0.44	0.48	15.79	15.73			-4.90	-4.70	26.99	Pass	
VHT80	MCS0	1	58	5290	0.89	0.88	14.52	14.62			-4.90	-4.70	26.99	Pass	
11a	6Mbps	2	52	5260	0.26	0.24	16.48	16.83	19.67	23.98	-4.70	26.99	Pass		
11a	6Mbps	2	60	5300	0.26	0.24	16.61	17.05	19.85	23.98	-4.70	26.99	Pass		
11a	6Mbps	2	64	5320	0.26	0.24	16.71	17.14	19.95	23.98	-4.70	26.99	Pass		
HT20	MCS0	2	52	5260	0.26	0.28	16.67	17.18	19.95	23.98	-4.70	26.99	Pass		
HT20	MCS0	2	60	5300	0.26	0.28	16.53	16.91	19.74	23.98	-4.70	26.99	Pass		
HT20	MCS0	2	64	5320	0.26	0.28	16.56	17.05	19.82	23.98	-4.70	26.99	Pass		
HT40	MCS0	2	54	5270	0.47	0.46	16.44	16.74	19.60	23.98	-4.70	26.99	Pass		
HT40	MCS0	2	62	5310	0.47	0.46	16.77	16.96	19.88	23.98	-4.70	26.99	Pass		
VHT20	MCS0	2	52	5260	0.26	0.27	15.65	15.67	18.67	23.98	-4.70	26.99	Pass		
VHT20	MCS0	2	60	5300	0.26	0.27	15.35	16.03	18.71	23.98	-4.70	26.99	Pass		
VHT20	MCS0	2	64	5320	0.26	0.27	15.54	16.02	18.80	23.98	-4.70	26.99	Pass		
VHT40	MCS0	2	54	5270	0.47	0.45	15.62	16.00	18.83	23.98	-4.70	26.99	Pass		
VHT40	MCS0	2	62	5310	0.47	0.45	15.71	15.96	18.85	23.98	-4.70	26.99	Pass		
VHT80	MCS0	2	58	5290	0.88	0.98	14.38	15.04	17.73	23.98	-4.70	26.99	Pass		

TEST RESULTS DATA
Power Spectral Density

Band II													
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	Ant 1	Ant 2	SUM	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.26	0.24			8.34	11.00	-1.79		Pass
11a	6Mbps	2	60	5300	0.26	0.24			8.08	11.00	-1.79		Pass
11a	6Mbps	2	64	5320	0.26	0.24			8.36	11.00	-1.79		Pass
HT20	MCS0	2	52	5260	0.26	0.28			8.13	11.00	-1.79		Pass
HT20	MCS0	2	60	5300	0.26	0.28			7.98	11.00	-1.79		Pass
HT20	MCS0	2	64	5320	0.26	0.28			8.18	11.00	-1.79		Pass
HT40	MCS0	2	54	5270	0.47	0.46			5.11	11.00	-1.79		Pass
HT40	MCS0	2	62	5310	0.47	0.46			5.20	11.00	-1.79		Pass
VHT80	MCS0	2	58	5290	0.88	0.98			0.12	11.00	-1.79		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III														
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)		FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	17.50	18.25	24.50	31.90	23.43		29.43		23.98	
11a	6Mbps	2	116	5580	17.40	17.85	24.10	31.10	23.41		29.41		23.98	
11a	6Mbps	2	140	5700	17.30	18.10	23.90	32.20	23.38		29.38		23.98	
HT20	MCS0	2	100	5500	18.50	20.30	25.80	36.40	23.67		29.67		23.98	
HT20	MCS0	2	116	5580	18.35	19.25	24.70	33.70	23.64		29.64		23.98	
HT20	MCS0	2	140	5700	18.35	19.30	24.50	33.60	23.64		29.64		23.98	
HT40	MCS0	2	102	5510	36.60	38.40	41.76	62.64	23.98		30.00		23.98	
HT40	MCS0	2	110	5550	36.70	37.30	41.76	67.32	23.98		30.00		23.98	
HT40	MCS0	2	134	5670	36.50	37.40	41.76	68.76	23.98		30.00		23.98	
VHT80	MCS0	2	106	5530	75.84	75.84	83.52	83.84	23.98		30.00		23.98	
VHT80	MCS0	2	122	5610	75.84	76.08	83.52	83.84	23.98		30.00		23.98	

TEST RESULTS DATA
Average Power Table

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	1	100	5500	0.22	0.24	16.82	16.77				-4.30	-4.30	26.99	Pass
11a	6Mbps	1	116	5580	0.22	0.24	16.72	16.76				-4.30	-4.30	26.99	Pass
11a	6Mbps	1	140	5700	0.22	0.24	16.64	16.53				-4.30	-4.30	26.99	Pass
HT20	MCS0	1	100	5500	0.26	0.26	16.71	16.72				-4.30	-4.30	26.99	Pass
HT20	MCS0	1	116	5580	0.26	0.26	16.80	16.70				-4.30	-4.30	26.99	Pass
HT20	MCS0	1	140	5700	0.26	0.26	16.68	16.50				-4.30	-4.30	26.99	Pass
HT40	MCS0	1	102	5510	0.44	0.47	16.52	16.72				-4.30	-4.30	26.99	Pass
HT40	MCS0	1	110	5550	0.44	0.47	16.50	16.71				-4.30	-4.30	26.99	Pass
HT40	MCS0	1	134	5670	0.44	0.47	16.51	16.70				-4.30	-4.30	26.99	Pass
VHT20	MCS0	1	100	5500	0.26	0.24	15.63	15.72				-4.30	-4.30	26.99	Pass
VHT20	MCS0	1	116	5580	0.26	0.24	15.76	15.67				-4.30	-4.30	26.99	Pass
VHT20	MCS0	1	140	5700	0.26	0.24	15.55	15.74				-4.30	-4.30	26.99	Pass
VHT40	MCS0	1	102	5510	0.44	0.48	15.89	15.83				-4.30	-4.30	26.99	Pass
VHT40	MCS0	1	110	5550	0.44	0.48	15.84	15.50				-4.30	-4.30	26.99	Pass
VHT40	MCS0	1	134	5670	0.44	0.48	15.86	15.80				-4.30	-4.30	26.99	Pass
VHT80	MCS0	1	106	5530	0.89	0.88	14.54	14.63				-4.30	-4.30	26.99	Pass
VHT80	MCS0	1	122	5610	0.89	0.88	14.50	14.61				-4.30	-4.30	26.99	Pass
11a	6Mbps	2	100	5500	0.26	0.24	16.36	17.24	19.84	23.98		-4.30	26.99	Pass	
11a	6Mbps	2	116	5580	0.26	0.24	16.39	17.12	19.79	23.98		-4.30	26.99	Pass	
11a	6Mbps	2	140	5700	0.26	0.24	16.66	16.62	19.65	23.98		-4.30	26.99	Pass	
HT20	MCS0	2	100	5500	0.26	0.28	16.11	17.29	19.75	23.98		-4.30	26.99	Pass	
HT20	MCS0	2	116	5580	0.26	0.28	16.49	17.20	19.87	23.98		-4.30	26.99	Pass	
HT20	MCS0	2	140	5700	0.26	0.28	16.81	16.56	19.70	23.98		-4.30	26.99	Pass	
HT40	MCS0	2	102	5510	0.47	0.46	16.17	17.29	19.77	23.98		-4.30	26.99	Pass	
HT40	MCS0	2	110	5550	0.47	0.46	16.42	17.06	19.76	23.98		-4.30	26.99	Pass	
HT40	MCS0	2	134	5670	0.47	0.46	16.57	16.91	19.75	23.98		-4.30	26.99	Pass	
VHT20	MCS0	2	100	5500	0.26	0.27	15.17	16.32	18.79	23.98		-4.30	26.99	Pass	
VHT20	MCS0	2	116	5580	0.26	0.27	15.51	16.11	18.83	23.98		-4.30	26.99	Pass	
VHT20	MCS0	2	140	5700	0.26	0.27	15.91	15.58	18.76	23.98		-4.30	26.99	Pass	
VHT40	MCS0	2	102	5510	0.47	0.45	15.37	16.39	18.92	23.98		-4.30	26.99	Pass	
VHT40	MCS0	2	110	5550	0.47	0.45	15.47	16.25	18.89	23.98		-4.30	26.99	Pass	
VHT40	MCS0	2	134	5670	0.47	0.45	15.61	16.17	18.91	23.98		-4.30	26.99	Pass	
VHT80	MCS0	2	106	5530	0.88	0.98	14.23	15.24	17.77	23.98		-4.30	26.99	Pass	
VHT80	MCS0	2	122	5610	0.88	0.98	14.38	15.08	17.75	23.98		-4.30	26.99	Pass	

TEST RESULTS DATA
Power Spectral Density

Band III														
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	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	0.26	0.24			8.98	11.00	-1.29			Pass
11a	6Mbps	2	116	5580	0.26	0.24			9.26	11.00	-1.29			Pass
11a	6Mbps	2	140	5700	0.26	0.24			8.41	11.00	-1.29			Pass
HT20	MCS0	2	100	5500	0.26	0.28			8.85	11.00	-1.29			Pass
HT20	MCS0	2	116	5580	0.26	0.28			9.49	11.00	-1.29			Pass
HT20	MCS0	2	140	5700	0.26	0.28			8.41	11.00	-1.29			Pass
HT40	MCS0	2	102	5510	0.47	0.46			6.18	11.00	-1.29			Pass
HT40	MCS0	2	110	5550	0.47	0.46			6.44	11.00	-1.29			Pass
HT40	MCS0	2	134	5670	0.47	0.46			5.76	11.00	-1.29			Pass
VHT80	MCS0	2	106	5530	0.88	0.98			1.00	11.00	-1.29			Pass
VHT80	MCS0	2	122	5610	0.88	0.98			1.35	11.00	-1.29			Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		6 dB Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	17.60	17.60	23.65	31.95	15.02	16.28	-	-	-	-	-	-
				NII-2C	13.8	13.8	16.85	19.95	12.44	13.12	22.40	28.40	23.27	-	-	-
				NII-3	3.8	3.8	6.8	12	2.58	3.16	30.00	36.02	-	-	-	-
HT20	MCS0	2	144	5720	18.65	18.65	25.00	31.10	15.08	16.50	-	-	-	-	-	-
				NII-2C	14.3	14.3	17.05	20.25	12.52	13.34	22.55	28.55	23.32	-	-	-
				NII-3	4.35	4.35	7.95	10.85	2.56	3.16	30.00	36.02	-	-	-	-
HT40	MCS0	2	142	5710	36.60	36.60	41.58	53.37	35.32	35.04	-	-	-	-	-	-
				NII-2C	33.3	33.3	35.7	38.4	32.72	32.44	23.98	30.00	23.98	-	-	-
				NII-3	3.3	3.3	5.88	14.97	2.6	2.6	30.00	36.02	-	-	-	-
VHT80	MCS0	2	138	5690	75.84	75.84	83.52	83.52	73.84	75.20	-	-	-	-	-	-
				NII-2C	72.92	72.92	76.92	76.92	72.52	72.60	23.98	30.00	23.98	-	-	-
				NII-3	2.92	2.92	6.6	6.6	1.32	2.6	30.00	36.02	-	-	-	-

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel														
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	1	144	5720	0.22	0.24	16.50	16.50		-	-	-4.30	-4.30	-
				NII-2C	0.22	0.24	15.65	15.69		23.98	23.98	-4.30	-4.30	
				NII-3	0.22	0.24	8.98	8.80		-	-	-4.30	-4.30	
HT20	MCS0	1	144	5720	0.26	0.26	16.57	16.70		-	-	-4.30	-4.30	-
				NII-2C	0.26	0.26	15.66	15.82		23.98	23.98	-4.30	-4.30	
				NII-3	0.26	0.26	9.35	9.32		-	-	-4.30	-4.30	
HT40	MCS0	1	142	5710	0.44	0.47	16.78	16.50		-	-	-4.30	-4.30	-
				NII-2C	0.44	0.47	16.45	16.16		23.98	23.98	-4.30	-4.30	
				NII-3	0.44	0.47	5.36	5.22		-	-	-4.30	-4.30	
VHT20	MCS0	1	144	5720	0.26	0.24	15.57	15.66		-	-	-4.30	-4.30	-
				NII-2C	0.26	0.24	14.67	14.80		23.98	23.98	-4.30	-4.30	
				NII-3	0.26	0.24	8.28	8.23		-	-	-4.30	-4.30	
VHT40	MCS0	1	142	5710	0.44	0.48	15.70	15.52		-	-	-4.30	-4.30	-
				NII-2C	0.44	0.48	15.37	15.20		23.98	23.98	-4.30	-4.30	
				NII-3	0.44	0.48	4.33	4.06		-	-	-4.30	-4.30	
VHT80	MCS0	1	138	5690	0.89	0.88	14.67	14.58		-	-	-4.30	-4.30	-
				NII-2C	0.89	0.88	14.53	14.43		23.98	23.98	-4.30	-4.30	
				NII-3	0.89	0.88	-0.24	-0.12		-	-	-4.30	-4.30	
11a	6Mbps	2	144	5720	0.26	0.24	16.93	16.60	19.78	-	-	-4.30	-4.30	-
				NII-2C	0.26	0.24	16.09	15.84		23.27	-	-4.30	-4.30	
				NII-3	0.26	0.24	9.39	8.66		12.05	-	-4.30	-4.30	
HT20	MCS0	2	144	5720	0.26	0.28	17.25	16.68	19.98	-	-	-4.30	-4.30	-
				NII-2C	0.26	0.28	16.47	15.74		19.13	23.32	-4.30	-4.30	
				NII-3	0.26	0.28	9.40	9.55		12.49	-	-4.30	-4.30	
HT40	MCS0	2	142	5710	0.47	0.46	16.89	16.70	19.81	-	-	-4.30	-4.30	-
				NII-2C	0.47	0.46	16.54	16.39		19.48	23.98	-4.30	-4.30	
				NII-3	0.47	0.46	5.80	5.03		8.44	-	-4.30	-4.30	
VHT20	MCS0	2	144	5720	0.26	0.27	16.18	15.67	18.94	-	-	-4.30	-4.30	-
				NII-2C	0.26	0.27	15.37	14.74		18.08	23.32	-4.30	-4.30	
				NII-3	0.26	0.27	8.49	8.50		11.51	-	-4.30	-4.30	
VHT40	MCS0	2	142	5710	0.47	0.45	15.85	15.59	18.73	-	-	-4.30	-4.30	-
				NII-2C	0.47	0.45	15.49	15.28		18.40	23.98	-4.30	-4.30	
				NII-3	0.47	0.45	4.80	3.94		7.40	-	-4.30	-4.30	
VHT80	MCS0	2	138	5690	0.88	0.98	14.99	14.56	17.79	-	-	-4.30	-4.30	-
				NII-2C	0.88	0.98	14.84	14.41		17.64	23.98	-4.30	-4.30	
				NII-3	0.88	0.98	0.29	0.01		3.16	-	-4.30	-4.30	

TEST RESULTS DATA
Power Spectral Density

Straddle Channel														
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	Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	144	NII-2C	0.26	0.24			9.07	11.00		-1.29		Pass
				NII-3	0.26	0.24			9.07	30.00		-1.29		
HT20	MCS0	2	144	NII-2C	0.26	0.28			8.81	11.00		-1.29		Pass
				NII-3	0.26	0.28			8.81	30.00		-1.29		
HT40	MCS0	2	142	NII-2C	0.47	0.46			5.91	11.00		-1.29		Pass
				NII-3	0.47	0.46			5.91	30.00		-1.29		
VHT80	MCS0	2	138	NII-2C	0.88	0.98			0.50	11.00		-1.29		Pass
				NII-3	0.88	0.98			0.50	30.00		-1.29		

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	50	3.9	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.9	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	4.3	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	3.5	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	20	3.9	

Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	50	3.9	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	-30	3.9	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.3	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.5	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	3.9	

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.100	0.100	18.18	50	3.9	
11a	6Mbps	1	100	5500	5500.100	0.100	18.18	-30	3.9	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	4.3	
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.5	
11a	6Mbps	1	100	5500	5500.100	0.100	18.18	20	3.9	



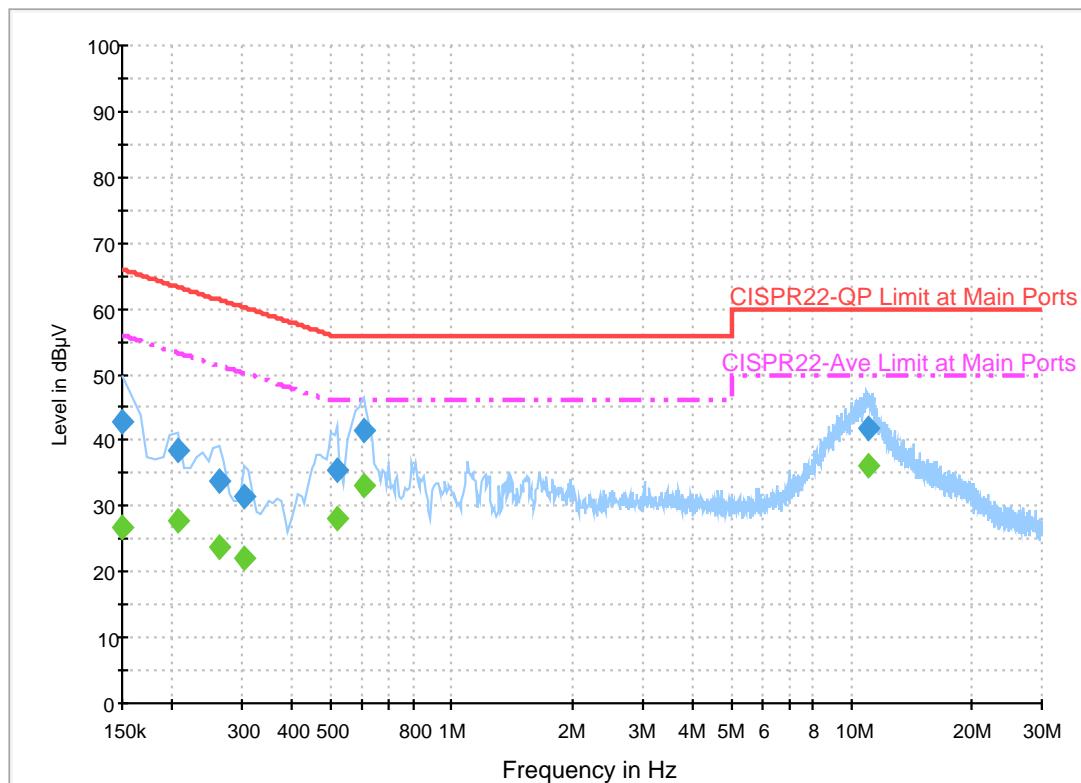
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	23~24°C
		Relative Humidity :	51~55%

EUT Information

Report NO : 712102
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	42.8	Off	L1	19.6	23.2	66.0
0.206000	38.6	Off	L1	19.6	24.8	63.4
0.262000	33.8	Off	L1	19.6	27.6	61.4
0.302000	31.3	Off	L1	19.6	28.9	60.2
0.518000	35.5	Off	L1	19.6	20.5	56.0
0.606000	41.5	Off	L1	19.6	14.5	56.0
10.998000	41.7	Off	L1	20.1	18.3	60.0

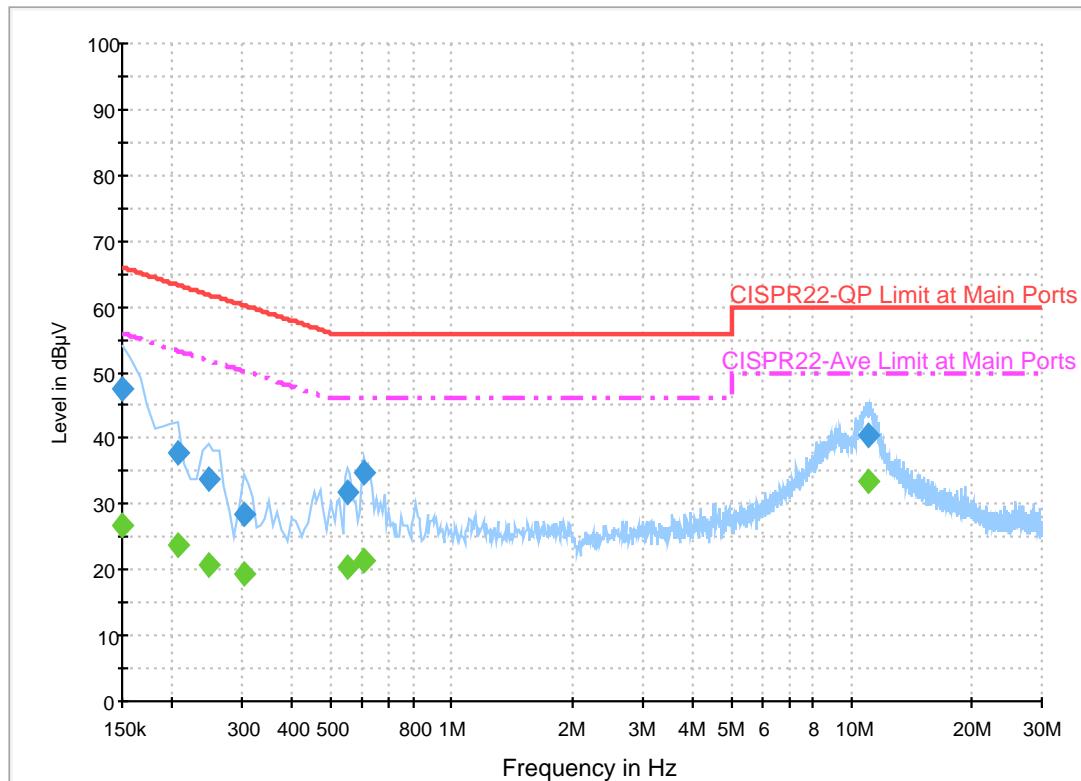
Final Result 2

Frequency (MHz)	Average (dB μ V)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	26.6	Off	L1	19.6	29.4	56.0
0.206000	27.7	Off	L1	19.6	25.7	53.4
0.262000	23.6	Off	L1	19.6	27.8	51.4
0.302000	22.0	Off	L1	19.6	28.2	50.2
0.518000	28.0	Off	L1	19.6	18.0	46.0
0.606000	33.1	Off	L1	19.6	12.9	46.0
10.998000	36.0	Off	L1	20.1	14.0	50.0

EUT Information

Report NO : 712102
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	47.3	Off	N	19.5	18.7	66.0
0.206000	37.8	Off	N	19.5	25.6	63.4
0.246000	33.7	Off	N	19.5	28.2	61.9
0.302000	28.4	Off	N	19.5	31.8	60.2
0.550000	31.9	Off	N	19.5	24.1	56.0
0.606000	34.9	Off	N	19.5	21.1	56.0
10.998000	40.3	Off	N	20.1	19.7	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	26.9	Off	N	19.5	29.1	56.0
0.206000	23.9	Off	N	19.5	29.5	53.4
0.246000	20.6	Off	N	19.5	31.3	51.9
0.302000	19.5	Off	N	19.5	30.7	50.2
0.550000	20.3	Off	N	19.5	25.7	46.0
0.606000	21.4	Off	N	19.5	24.6	46.0
10.998000	33.6	Off	N	20.1	16.4	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	Temperature :		18~22°C	
		Relative Humidity :		55~60%	

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	Pos	Pos	Avg.
802.11a	CH 36	5133.38	49.8	-24.2	74	41.61	32.19	9.03	33.03	100	116	P	H
5180MHz		5137.28	40.94	-13.06	54	32.75	32.19	9.03	33.03	100	116	A	H
	*	5180	97.63	-	-	89.32	32.26	9.08	33.03	100	116	P	H
	*	5180	87.71	-	-	79.4	32.26	9.08	33.03	100	116	A	H
													H
													H
		5053.3	49.32	-24.68	74	41.32	32.07	8.97	33.04	100	199	P	V
		5135.46	41.06	-12.94	54	32.87	32.19	9.03	33.03	100	199	A	V
	*	5180	97.3	-	-	88.99	32.26	9.08	33.03	100	199	P	V
	*	5180	88.16	-	-	79.85	32.26	9.08	33.03	100	199	A	V
													V
													V
802.11a	CH 44	5010.4	49.88	-24.12	74	41.97	32.02	8.93	33.04	100	116	P	H
5220MHz		5072.54	40.86	-13.14	54	32.79	32.12	8.99	33.04	100	116	A	H
	*	5220	96.79	-	-	88.42	32.3	9.1	33.03	100	116	P	H
	*	5220	86.77	-	-	78.4	32.3	9.1	33.03	100	116	A	H
		5442	50.15	-23.85	74	41.29	32.61	9.27	33.02	100	116	P	H
		5453.52	40.41	-13.59	54	31.51	32.63	9.29	33.02	100	116	A	H
		5016.9	49.7	-24.3	74	41.77	32.02	8.95	33.04	100	202	P	V
		5083.72	40.82	-13.18	54	32.75	32.12	8.99	33.04	100	202	A	V
	*	5220	97.93	-	-	89.56	32.3	9.1	33.03	100	202	P	V
	*	5220	88.53	-	-	80.16	32.3	9.1	33.03	100	202	A	V
		5409.12	49.5	-24.5	74	40.74	32.56	9.22	33.02	100	202	P	V
		5454	40.56	-13.44	54	31.66	32.63	9.29	33.02	100	202	A	V



		5058.24	49.4	-24.6	74	41.38	32.09	8.97	33.04	100	115	P	H
		5073.32	40.92	-13.08	54	32.85	32.12	8.99	33.04	100	115	A	H
* 802.11a		5240	95.74	-	-	87.33	32.33	9.11	33.03	100	115	P	H
CH 48		5240	86.15	-	-	77.74	32.33	9.11	33.03	100	115	A	H
5240MHz		5455.44	49.58	-24.42	74	40.68	32.63	9.29	33.02	100	115	P	H
		5453.52	40.39	-13.61	54	31.49	32.63	9.29	33.02	100	115	A	H
		5106.08	50.01	-23.99	74	41.89	32.16	9	33.04	100	197	P	V
		5073.32	40.77	-13.23	54	32.7	32.12	8.99	33.04	100	197	A	V
		* 5240	97.93	-	-	89.52	32.33	9.11	33.03	100	197	P	V
		* 5240	88.8	-	-	80.39	32.33	9.11	33.03	100	197	A	V
		5414.88	49.29	-24.71	74	40.49	32.58	9.24	33.02	100	197	P	V
		5448	40.38	-13.62	54	31.48	32.63	9.29	33.02	100	197	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	57.6	-16.4	74	67.7	39.84	14.95	65.2	222	104	P	H
		10360	46.68	-7.32	54	56.78	39.84	14.95	65.2	222	104	A	H
		15540	54.89	-19.11	74	61.58	38.21	18.69	63.98	194	224	P	H
		15540	44.23	-9.77	54	50.92	38.21	18.69	63.98	194	224	A	H
		10360	49.62	-24.38	74	59.72	39.84	14.95	65.2	100	0	P	V
		15540	55.82	-18.18	74	62.51	38.21	18.69	63.98	186	202	P	V
		15540	44.37	-9.63	54	51.06	38.21	18.69	63.98	186	202	A	V
													V
802.11a CH 44 5220MHz		10440	56.88	-17.12	74	66.85	39.92	15	65.2	219	107	P	H
		10440	44.62	-9.38	54	54.59	39.92	15	65.2	219	107	A	H
		15660	56.37	-17.63	74	63.23	38.23	18.8	64.24	191	211	P	H
		15660	45.23	-8.77	54	52.09	38.23	18.8	64.24	191	211	A	H
		10440	49.22	-24.78	74	59.19	39.92	15	65.2	100	0	P	V
		15660	57.4	-16.6	74	64.26	38.23	18.8	64.24	189	201	P	V
		15660	43.5	-10.5	54	50.36	38.23	18.8	64.24	189	201	A	V
													V
802.11a CH 48 5240MHz		10480	58.23	-15.77	74	68.1	39.98	15.04	65.2	219	106	P	H
		10480	48.25	-5.75	54	58.12	39.98	15.04	65.2	219	106	A	H
		15720	58.15	-15.85	74	65.12	38.24	18.85	64.39	194	211	P	H
		15720	44.02	-9.98	54	50.99	38.24	18.85	64.39	194	211	A	H
		10480	56.26	-17.74	74	66.13	39.98	15.04	65.2	231	138	P	V
		10480	45.96	-8.04	54	55.83	39.98	15.04	65.2	231	138	A	V
		15720	58.48	-15.52	74	65.45	38.24	18.85	64.39	213	245	P	V
		15720	47.37	-6.63	54	54.34	38.24	18.85	64.39	213	245	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 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5105.82	49.42	-24.58	74	41.3	32.16	9	33.04	100	116	P	H
		5071.5	40.88	-13.12	54	32.81	32.12	8.99	33.04	100	116	A	H
	*	5180	92.41	-	-	84.1	32.26	9.08	33.03	100	116	P	H
	*	5180	82.1	-	-	73.79	32.26	9.08	33.03	100	116	A	H
													H
													H
		5046.8	49.27	-24.73	74	41.28	32.07	8.96	33.04	100	199	P	V
		5139.62	40.99	-13.01	54	32.78	32.21	9.03	33.03	100	199	A	V
	*	5180	95.8	-	-	87.49	32.26	9.08	33.03	100	199	P	V
	*	5180	84.6	-	-	76.29	32.26	9.08	33.03	100	199	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5149.5	49.99	-24.01	74	41.76	32.21	9.05	33.03	100	117	P	H
		5079.56	41.05	-12.95	54	32.98	32.12	8.99	33.04	100	117	A	H
	*	5220	95.31	-	-	86.94	32.3	9.1	33.03	100	117	P	H
	*	5220	86.92	-	-	78.55	32.3	9.1	33.03	100	117	A	H
		5411.52	48.61	-25.39	74	39.83	32.58	9.22	33.02	100	117	P	H
		5459.04	40.34	-13.66	54	31.44	32.63	9.29	33.02	100	117	A	H
		5055.9	49.87	-24.13	74	41.85	32.09	8.97	33.04	100	197	P	V
		5026.52	40.95	-13.05	54	32.99	32.05	8.95	33.04	100	197	A	V
	*	5220	96.16	-	-	87.79	32.3	9.1	33.03	100	197	P	V
	*	5220	88.74	-	-	80.37	32.3	9.1	33.03	100	197	A	V
		5457.84	48.71	-25.29	74	39.81	32.63	9.29	33.02	100	197	P	V
		5452.8	40.45	-13.55	54	31.55	32.63	9.29	33.02	100	197	A	V



802.11n HT20 CH 48 5240MHz		5099.58	48.79	-25.21	74	40.69	32.14	9	33.04	100	119	P	H
		5108.16	41.06	-12.94	54	32.92	32.16	9.02	33.04	100	119	A	H
	*	5240	94.64	-	-	86.23	32.33	9.11	33.03	100	119	P	H
	*	5240	87.59	-	-	79.18	32.33	9.11	33.03	100	119	A	H
		5447.52	49.65	-24.35	74	40.77	32.63	9.27	33.02	100	119	P	H
		5458.32	40.33	-13.67	54	31.43	32.63	9.29	33.02	100	119	A	H
		5003.12	49.04	-24.96	74	41.15	32	8.93	33.04	100	198	P	V
		5136.76	41	-13	54	32.81	32.19	9.03	33.03	100	198	A	V
	*	5240	96.48	-	-	88.07	32.33	9.11	33.03	100	198	P	V
	*	5240	87.65	-	-	79.24	32.33	9.11	33.03	100	198	A	V
		5368.56	49.15	-24.85	74	40.47	32.51	9.2	33.03	100	198	P	V
		5459.52	40.46	-13.54	54	31.56	32.63	9.29	33.02	100	198	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)	Cable 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	56.02	-17.98	74	66.12	39.84	14.95	65.2	223	102	P	H
		10360	44.97	-9.03	54	55.07	39.84	14.95	65.2	223	102	A	H
		15540	54.33	-19.67	74	61.02	38.21	18.69	63.98	218	242	P	H
		15540	45.18	-8.82	54	51.87	38.21	18.69	63.98	218	242	A	H
		10360	50.22	-23.78	74	60.32	39.84	14.95	65.2	100	0	P	V
		15540	53.13	-20.87	74	59.82	38.21	18.69	63.98	217	98	P	V
		15540	44.04	-9.96	54	50.73	38.21	18.69	63.98	217	98	A	V
													V
802.11n HT20 CH 44 5220MHz		10440	52.13	-21.87	74	62.1	39.92	15	65.2	201	198	P	H
		10440	43.08	-10.92	54	53.05	39.92	15	65.2	201	198	A	H
		15660	56.01	-17.99	74	62.87	38.23	18.8	64.24	200	215	P	H
		15660	45.83	-8.17	54	52.69	38.23	18.8	64.24	200	215	A	H
		10440	52.21	-21.79	74	62.18	39.92	15	65.2	198	104	P	V
		10440	43.04	-10.96	54	53.01	39.92	15	65.2	198	104	A	V
		15660	55.65	-18.35	74	62.51	38.23	18.8	64.24	200	204	P	V
		15660	44.4	-9.6	54	51.26	38.23	18.8	64.24	200	204	A	V
802.11n HT20 CH 48 5240MHz		10480	56.25	-17.75	74	66.12	39.98	15.04	65.2	202	138	P	H
		10480	46.35	-7.65	54	56.22	39.98	15.04	65.2	202	138	A	H
		15720	55.25	-18.75	74	62.22	38.24	18.85	64.39	208	244	P	H
		15720	46.07	-7.93	54	53.04	38.24	18.85	64.39	208	244	A	H
		10480	50.39	-23.61	74	60.26	39.98	15.04	65.2	100	0	P	V
		15720	56.66	-17.34	74	63.63	38.24	18.85	64.39	193	218	P	V
		15720	47.19	-6.81	54	54.16	38.24	18.85	64.39	193	218	A	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5093.86	49.55	-24.45	74	41.45	32.14	9	33.04	100	115	P	H
		5123.24	41.69	-12.31	54	33.51	32.19	9.02	33.03	100	115	A	H
	*	5190	89.89	-	-	81.58	32.26	9.08	33.03	100	115	P	H
	*	5190	83.39	-	-	75.08	32.26	9.08	33.03	100	115	A	H
		5419.4	49.03	-24.97	74	40.23	32.58	9.24	33.02	100	115	P	H
		5454.4	40.96	-13.04	54	32.06	32.63	9.29	33.02	100	115	A	H
		5010.66	49.92	-24.08	74	42.01	32.02	8.93	33.04	100	185	P	V
		5068.38	41.61	-12.39	54	33.59	32.09	8.97	33.04	100	185	A	V
	*	5190	92.51	-	-	84.2	32.26	9.08	33.03	100	185	P	V
	*	5190	84.95	-	-	76.64	32.26	9.08	33.03	100	185	A	V
802.11n HT40 CH 46 5230MHz		5440.12	48.69	-25.31	74	39.83	32.61	9.27	33.02	100	185	P	V
		5434.24	40.9	-13.1	54	32.04	32.61	9.27	33.02	100	185	A	V
		5101.92	49.12	-24.88	74	41.02	32.14	9	33.04	100	117	P	H
		5047.32	41.82	-12.18	54	33.83	32.07	8.96	33.04	100	117	A	H
	*	5230	91.8	-	-	83.4	32.33	9.1	33.03	100	117	P	H
	*	5230	83.77	-	-	75.37	32.33	9.1	33.03	100	117	A	H
		5398.56	48.81	-25.19	74	40.05	32.56	9.22	33.02	100	117	P	H
		5454.24	40.92	-13.08	54	32.02	32.63	9.29	33.02	100	117	A	H
		5075.92	49.35	-24.65	74	41.28	32.12	8.99	33.04	100	197	P	V
		5058.24	41.75	-12.25	54	33.73	32.09	8.97	33.04	100	197	A	V
Remark	*	5230	93.68	-	-	85.28	32.33	9.1	33.03	100	197	P	V
	*	5230	85.57	-	-	77.17	32.33	9.1	33.03	100	197	A	V
		5353.92	48.54	-25.46	74	39.89	32.49	9.19	33.03	100	197	P	V
		5448.72	40.91	-13.09	54	32.01	32.63	9.29	33.02	100	197	A	V



Band 1 5150~5250MHz

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	53.58	-20.42	74	63.65	39.86	14.96	65.2	299	104	P	H
		10380	45.06	-8.94	54	55.13	39.86	14.96	65.2	299	104	A	H
		15570	57.67	-16.33	74	64.41	38.21	18.72	64.05	185	193	P	H
		15570	47.73	-6.27	54	54.47	38.21	18.72	64.05	185	193	A	H
		10380	48.23	-25.77	74	58.3	39.86	14.96	65.2	100	0	P	V
		15570	57.43	-16.57	74	64.17	38.21	18.72	64.05	198	205	P	V
		15570	47.51	-6.49	54	54.25	38.21	18.72	64.05	198	205	A	V
													V
802.11n HT40 CH 46 5230MHz		10460	49.72	-24.28	74	59.66	39.94	15.01	65.2	100	0	P	H
		15690	56.3	-17.7	74	63.22	38.24	18.82	64.32	198	204	P	H
		15690	45.81	-8.19	54	52.73	38.24	18.82	64.32	198	204	A	H
													H
		10460	48.49	-25.51	74	58.43	39.94	15.01	65.2	100	0	P	V
		15690	56.32	-17.68	74	63.24	38.24	18.82	64.32	203	199	P	V
		15690	46.31	-7.69	54	53.23	38.24	18.82	64.32	203	199	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5140.92	49.48	-24.52	74	41.27	32.21	9.03	33.03	100	122	P	H
		5147.16	42.71	-11.29	54	34.48	32.21	9.05	33.03	100	122	A	H
	*	5210	90.76	-	-	82.4	32.3	9.09	33.03	100	122	P	H
	*	5210	81.09	-	-	72.73	32.3	9.09	33.03	100	122	A	H
		5408.48	49.67	-24.33	74	40.91	32.56	9.22	33.02	100	122	P	H
		5458.04	41.31	-12.69	54	32.41	32.63	9.29	33.02	100	122	A	H
		5130	50.49	-23.51	74	42.3	32.19	9.03	33.03	100	237	P	V
		5149.5	42.98	-11.02	54	34.75	32.21	9.05	33.03	100	237	A	V
	*	5210	92.3	-	-	83.94	32.3	9.09	33.03	100	237	P	V
	*	5210	82.17	-	-	73.81	32.3	9.09	33.03	100	237	A	V
		5391.96	49.96	-24.04	74	41.23	32.54	9.21	33.02	100	237	P	V
		5443.76	41.32	-12.68	54	32.46	32.61	9.27	33.02	100	237	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	47.3	-26.7	74	57.3	39.9	14.99	65.2	100	0	P	H
		15630	48.98	-25.02	74	55.82	38.23	18.77	64.2	100	0	P	H
													H
													H
		10420	46.66	-27.34	74	56.66	39.9	14.99	65.2	100	0	P	V
		15630	48.84	-25.16	74	55.68	38.23	18.77	64.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+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		5044.46	49.08	-24.92	74	41.09	32.07	8.96	33.04	100	115	P	H
		5105.56	40.82	-13.18	54	32.7	32.16	9	33.04	100	115	A	H
	*	5260	95.54	-	-	87.07	32.37	9.13	33.03	100	115	P	H
	*	5260	86.17	-	-	77.7	32.37	9.13	33.03	100	115	A	H
		5425.2	48.81	-25.19	74	40.01	32.58	9.24	33.02	100	115	P	H
		5452.8	40.46	-13.54	54	31.56	32.63	9.29	33.02	100	115	A	H
		5030.68	50.12	-23.88	74	42.16	32.05	8.95	33.04	100	198	P	V
		5069.68	40.79	-13.21	54	32.77	32.09	8.97	33.04	100	198	A	V
	*	5260	97.56	-	-	89.09	32.37	9.13	33.03	100	198	P	V
	*	5260	88.39	-	-	79.92	32.37	9.13	33.03	100	198	A	V
802.11a CH 60 5300MHz		5458.08	49.17	-24.83	74	40.27	32.63	9.29	33.02	100	198	P	V
		5453.04	40.57	-13.43	54	31.67	32.63	9.29	33.02	100	198	A	V
		5034.65	49.07	-24.93	74	41.1	32.05	8.96	33.04	236	216	P	H
		5076.3	40.85	-13.15	54	32.78	32.12	8.99	33.04	236	216	A	H
	*	5300	95.54	-	-	87	32.42	9.15	33.03	236	216	P	H
	*	5300	85.94	-	-	77.4	32.42	9.15	33.03	236	216	A	H
		5425.44	48.32	-25.68	74	39.52	32.58	9.24	33.02	236	216	P	H
		5452.56	40.55	-13.45	54	31.65	32.63	9.29	33.02	236	216	A	H
		5095.9	49.53	-24.47	74	41.43	32.14	9	33.04	100	200	P	V
		5114.45	40.97	-13.03	54	32.83	32.16	9.02	33.04	100	200	A	V



802.11a CH 64 5320MHz	*	5320	95.9	-	-	87.33	32.44	9.16	33.03	246	219	P	H
	*	5320	86.39	-	-	77.82	32.44	9.16	33.03	246	219	A	H
		5446.56	49.6	-24.4	74	40.72	32.63	9.27	33.02	246	219	P	H
		5454.24	40.36	-13.64	54	31.46	32.63	9.29	33.02	246	219	A	H
													H
													H
	*	5320	97.93	-	-	89.36	32.44	9.16	33.03	100	195	P	V
	*	5320	88.52	-	-	79.95	32.44	9.16	33.03	100	195	A	V
		5446.24	49.11	-24.89	74	40.23	32.63	9.27	33.02	100	195	P	V
		5452.96	40.53	-13.47	54	31.63	32.63	9.29	33.02	100	195	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	57.14	-16.86	74	66.98	39.99	15.06	65.2	218	121	P	H
		10520	46.04	-7.96	54	55.88	39.99	15.06	65.2	218	121	A	H
		15780	58.34	-15.66	74	65.38	38.26	18.9	64.51	199	238	P	H
		15780	47.19	-6.81	54	54.23	38.26	18.9	64.51	199	238	A	H
		10520	48.41	-25.59	74	58.25	39.99	15.06	65.2	100	0	P	V
		15780	56.08	-17.92	74	63.12	38.26	18.9	64.51	174	234	P	V
		15780	45.23	-8.77	54	52.27	38.26	18.9	64.51	174	234	A	V
													V
802.11a CH 60 5300MHz		10600	56.98	-17.02	74	66.82	39.92	15.11	65.18	241	99	P	H
		10600	46.03	-7.97	54	55.87	39.92	15.11	65.18	241	99	A	H
		15900	57.34	-16.66	74	64.54	38.28	19.01	64.77	202	241	P	H
		15900	46.21	-7.79	54	53.41	38.28	19.01	64.77	202	241	A	H
		10600	49.44	-24.56	74	59.28	39.92	15.11	65.18	100	0	P	V
		15900	56.34	-17.66	74	63.54	38.28	19.01	64.77	191	213	P	V
		15900	45.24	-8.76	54	52.44	38.28	19.01	64.77	191	213	A	V
													V
802.11a CH 64 5320MHz		10640	57.27	-16.73	74	67.12	39.89	15.13	65.17	238	102	P	H
		10640	47.14	-6.86	54	56.99	39.89	15.13	65.17	238	102	A	H
		15960	60.67	-13.33	74	67.98	38.29	19.06	64.92	208	234	P	H
		15960	49.21	-4.79	54	56.52	38.29	19.06	64.92	208	234	A	H
		10640	49.99	-24.01	74	59.84	39.89	15.13	65.17	100	0	P	V
		15960	58.57	-15.43	74	65.88	38.29	19.06	64.92	202	241	P	V
		15960	49.4	-4.6	54	56.71	38.29	19.06	64.92	202	241	A	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5086.06	49.32	-24.68	74	41.25	32.12	8.99	33.04	100	119	P	H
		5115.96	40.9	-13.1	54	32.76	32.16	9.02	33.04	100	119	A	H
	*	5260	96.16	-	-	87.69	32.37	9.13	33.03	100	119	P	H
	*	5260	86.61	-	-	78.14	32.37	9.13	33.03	100	119	A	H
		5411.28	48.84	-25.16	74	40.08	32.56	9.22	33.02	100	119	P	H
		5453.04	40.36	-13.64	54	31.46	32.63	9.29	33.02	100	119	A	H
		5040.56	49.69	-24.31	74	41.7	32.07	8.96	33.04	100	200	P	V
		5142.48	40.81	-13.19	54	32.58	32.21	9.05	33.03	100	200	A	V
	*	5260	97.46	-	-	88.99	32.37	9.13	33.03	100	200	P	V
	*	5260	89.17	-	-	80.7	32.37	9.13	33.03	100	200	A	V
802.11n HT20 CH 60 5300MHz		5454.72	48.3	-25.7	74	39.4	32.63	9.29	33.02	100	200	P	V
		5448.72	40.46	-13.54	54	31.56	32.63	9.29	33.02	100	200	A	V
		5134.05	48.94	-25.06	74	40.75	32.19	9.03	33.03	100	115	P	H
		5062.3	40.9	-13.1	54	32.88	32.09	8.97	33.04	100	115	A	H
	*	5300	96.08	-	-	87.54	32.42	9.15	33.03	100	115	P	H
	*	5300	89.15	-	-	80.61	32.42	9.15	33.03	100	115	A	H
		5427.12	49.17	-24.83	74	40.37	32.58	9.24	33.02	100	115	P	H
		5441.04	40.42	-13.58	54	31.56	32.61	9.27	33.02	100	115	A	H
		5100.1	50.21	-23.79	74	42.11	32.14	9	33.04	100	226	P	V
		5070	41.02	-12.98	54	33	32.09	8.97	33.04	100	226	A	V



	*	5320	96.57	-	-	88	32.44	9.16	33.03	107	114	P	H
	*	5320	88.9	-	-	80.33	32.44	9.16	33.03	107	114	A	H
		5416.48	49.83	-24.17	74	41.03	32.58	9.24	33.02	107	114	P	H
		5452.16	40.37	-13.63	54	31.47	32.63	9.29	33.02	107	114	A	H
802.11n													H
HT20													H
CH 64	*	5320	97.63	-	-	89.06	32.44	9.16	33.03	100	195	P	V
5320MHz	*	5320	89.75	-	-	81.18	32.44	9.16	33.03	100	195	A	V
		5372.32	50.62	-23.38	74	41.94	32.51	9.2	33.03	100	195	P	V
		5363.36	40.67	-13.33	54	31.99	32.51	9.2	33.03	100	195	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)	Cable 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	54.75	-19.25	74	64.59	39.99	15.06	65.2	216	106	P	H
		10520	45.74	-8.26	54	55.58	39.99	15.06	65.2	216	106	A	H
		15780	61.15	-12.85	74	68.19	38.26	18.9	64.51	189	211	P	H
		15780	49.14	-4.86	54	56.18	38.26	18.9	64.51	189	211	A	H
		10520	48.1	-25.9	74	57.94	39.99	15.06	65.2	100	0	P	V
		15780	57.87	-16.13	74	64.91	38.26	18.9	64.51	100	215	P	V
		15780	45.05	-8.95	54	52.09	38.26	18.9	64.51	100	215	A	V
													V
802.11n HT20 CH 60 5300MHz		10600	54.28	-19.72	74	64.12	39.92	15.11	65.18	218	103	P	H
		10600	45.17	-8.83	54	55.01	39.92	15.11	65.18	218	103	A	H
		15900	59.74	-14.26	74	66.94	38.28	19.01	64.77	183	244	P	H
		15900	48.74	-5.26	54	55.94	38.28	19.01	64.77	183	244	A	H
		10600	50.36	-23.64	74	60.2	39.92	15.11	65.18	100	0	P	V
		15900	57.17	-16.83	74	64.37	38.28	19.01	64.77	112	243	P	V
		15900	45.93	-8.07	54	53.13	38.28	19.01	64.77	112	243	A	V
													V
802.11n HT20 CH 64 5320MHz		10640	55.63	-18.37	74	65.48	39.89	15.13	65.17	298	107	P	H
		10640	45.33	-8.67	54	55.18	39.89	15.13	65.17	298	107	A	H
		15960	59.62	-14.38	74	66.93	38.29	19.06	64.92	313	202	P	H
		15960	49.36	-4.64	54	56.67	38.29	19.06	64.92	313	202	A	H
		10640	52.19	-21.81	74	62.04	39.89	15.13	65.17	274	114	P	V
		10640	42.23	-11.77	54	52.08	39.89	15.13	65.17	274	114	A	V
		15960	58.58	-15.42	74	65.89	38.29	19.06	64.92	283	158	P	V
		15960	44.94	-9.06	54	52.25	38.29	19.06	64.92	283	158	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n 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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5035.36	50.3	-23.7	74	42.33	32.05	8.96	33.04	100	113	P	H
		5055.12	41.73	-12.27	54	33.71	32.09	8.97	33.04	100	113	A	H
	*	5270	91.94	-	-	83.46	32.37	9.14	33.03	100	113	P	H
	*	5270	84.53	-	-	76.05	32.37	9.14	33.03	100	113	A	H
		5436.72	48.81	-25.19	74	39.95	32.61	9.27	33.02	100	113	P	H
		5452.56	40.98	-13.02	54	32.08	32.63	9.29	33.02	100	113	A	H
		5139.62	50.13	-23.87	74	41.92	32.21	9.03	33.03	100	198	P	V
		5061.88	41.61	-12.39	54	33.59	32.09	8.97	33.04	100	198	A	V
	*	5270	93.53	-	-	85.05	32.37	9.14	33.03	100	198	P	V
	*	5270	86.58	-	-	78.1	32.37	9.14	33.03	100	198	A	V
802.11n HT40 CH 62 5310MHz		5362.32	48.86	-25.14	74	40.18	32.51	9.2	33.03	100	198	P	V
		5410.32	41.03	-12.97	54	32.27	32.56	9.22	33.02	100	198	A	V
		5124.95	49.37	-24.63	74	41.18	32.19	9.03	33.03	100	114	P	H
		5108.5	41.65	-12.35	54	33.51	32.16	9.02	33.04	100	114	A	H
	*	5310	92.52	-	-	83.95	32.44	9.16	33.03	100	114	P	H
	*	5310	86.11	-	-	77.54	32.44	9.16	33.03	100	114	A	H
		5440.56	48.76	-25.24	74	39.9	32.61	9.27	33.02	100	114	P	H
		5414.16	41.15	-12.85	54	32.35	32.58	9.24	33.02	100	114	A	H
		5030.8	49.13	-24.87	74	41.17	32.05	8.95	33.04	100	193	P	V
		5089.6	41.62	-12.38	54	33.52	32.14	9	33.04	100	193	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 2 5250~5350MHz

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	49.93	-24.07	74	59.77	39.97	15.07	65.19	100	0	P	H
		15810	56.19	-17.81	74	63.27	38.26	18.93	64.58	189	213	P	H
		15810	46.03	-7.97	54	53.11	38.26	18.93	64.58	189	213	A	H
													H
		10540	46.51	-27.49	74	56.35	39.97	15.07	65.19	100	0	P	V
		15810	56.46	-17.54	74	63.54	38.26	18.93	64.58	195	201	P	V
		15810	46.14	-7.86	54	53.22	38.26	18.93	64.58	195	201	A	V
													V
802.11n HT40 CH 62 5310MHz		10620	50.13	-23.87	74	59.99	39.9	15.12	65.18	100	0	P	H
		15930	57.63	-16.37	74	64.87	38.29	19.05	64.85	198	187	P	H
		15930	47.3	-6.7	54	54.54	38.29	19.05	64.85	198	187	A	H
													H
		10620	47.51	-26.49	74	57.37	39.9	15.12	65.18	100	0	P	V
		15930	55.11	-18.89	74	62.35	38.29	19.05	64.85	188	213	P	V
		15930	45.03	-8.97	54	52.27	38.29	19.05	64.85	188	213	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5093.45	49.42	-24.58	74	41.32	32.14	9	33.04	100	115	P	H
		5104.3	41.86	-12.14	54	33.76	32.14	9	33.04	100	115	A	H
	*	5290	90.29	-	-	81.77	32.4	9.15	33.03	100	115	P	H
	*	5290	80.82	-	-	72.3	32.4	9.15	33.03	100	115	A	H
		5379.36	48.95	-25.05	74	40.22	32.54	9.21	33.02	100	115	P	H
		5361.44	42.65	-11.35	54	33.97	32.51	9.2	33.03	100	115	A	H
		5084.7	49.35	-24.65	74	41.28	32.12	8.99	33.04	100	200	P	V
		5015.75	41.68	-12.32	54	33.77	32.02	8.93	33.04	100	200	A	V
	*	5290	92.76	-	-	84.24	32.4	9.15	33.03	100	200	P	V
	*	5290	82.72	-	-	74.2	32.4	9.15	33.03	100	200	A	V
		5358.92	50.67	-23.33	74	42.01	32.49	9.2	33.03	100	200	P	V
		5361.72	43.53	-10.47	54	34.85	32.51	9.2	33.03	100	200	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	48.21	-25.79	74	58.05	39.93	15.1	65.18	100	0	P	H
		15870	49.3	-24.7	74	56.48	38.28	18.98	64.73	100	0	P	H
													H
													H
		10580	47.91	-26.09	74	57.75	39.93	15.1	65.18	100	0	P	V
		15870	48.25	-25.75	74	55.43	38.28	18.98	64.73	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 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+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		5420.24	49.14	-24.86	74	40.34	32.58	9.24	33.02	200	118	P	H
		5452.88	40.96	-13.04	54	32.06	32.63	9.29	33.02	200	118	A	H
	*	5500	97.78	-	-	88.76	32.7	9.34	33.02	200	118	P	H
	*	5500	88.33	-	-	79.31	32.7	9.34	33.02	200	118	A	H
													H
													H
		5424.56	49.54	-24.46	74	40.74	32.58	9.24	33.02	100	213	P	V
		5460.08	41.07	-12.93	54	32.17	32.63	9.29	33.02	100	213	A	V
	*	5500	99.61	-	-	90.59	32.7	9.34	33.02	100	213	P	V
	*	5500	89.78	-	-	80.76	32.7	9.34	33.02	100	213	A	V
802.11a CH 116 5580MHz		5453.92	49.91	-24.09	74	41.01	32.63	9.29	33.02	210	214	P	H
		5456.8	40.54	-13.46	54	31.64	32.63	9.29	33.02	210	214	A	H
	*	5580	99.88	-	-	90.69	32.8	9.46	33.07	210	214	P	H
	*	5580	90.38	-	-	81.19	32.8	9.46	33.07	210	214	A	H
		5757.44	49.4	-24.6	74	39.58	33.06	9.92	33.16	210	214	P	H
		5759.96	42.12	-11.88	54	32.3	33.06	9.92	33.16	210	214	A	H
		5469.04	49.16	-24.84	74	40.22	32.65	9.31	33.02	100	223	P	V
		5460.4	40.5	-13.5	54	31.6	32.63	9.29	33.02	100	223	A	V
	*	5580	99.15	-	-	89.96	32.8	9.46	33.07	100	223	P	V
	*	5580	90.01	-	-	80.82	32.8	9.46	33.07	100	223	A	V
		5762.795	49.36	-24.64	74	39.54	33.06	9.92	33.16	100	223	P	V
		5759.96	41.56	-12.44	54	31.74	33.06	9.92	33.16	100	223	A	V



802.11a CH 140 5700MHz	*	5700	100.12	-	-	90.5	32.97	9.77	33.12	228	215	P	H
	*	5700	90.8	-	-	81.18	32.97	9.77	33.12	228	215	A	H
		5751.88	51.25	-22.75	74	41.47	33.06	9.87	33.15	228	215	P	H
		5759.96	43.22	-10.78	54	33.4	33.06	9.92	33.16	228	215	A	H
													H
													H
	*	5700	99.43	-	-	89.81	32.97	9.77	33.12	100	214	P	V
	*	5700	90.12	-	-	80.5	32.97	9.77	33.12	100	214	A	V
		5740.76	52.66	-21.34	74	42.9	33.04	9.87	33.15	100	214	P	V
		5737	42.37	-11.63	54	32.61	33.04	9.87	33.15	100	214	A	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	56.01	-17.99	74	65.84	39.6	15.37	65.1	221	98	P	H
		11000	46.15	-7.85	54	55.98	39.6	15.37	65.1	221	98	A	H
		16500	48.21	-25.79	74	54.36	39.2	19.45	65.1	100	0	P	H
													H
		11000	54.39	-19.61	74	64.22	39.6	15.37	65.1	189	79	P	V
		11000	45.28	-8.72	54	55.11	39.6	15.37	65.1	189	79	A	V
		16500	48.58	-25.42	74	54.73	39.2	19.45	65.1	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	54.57	-19.43	74	64.54	39.43	15.51	65.2	220	143	P	H
		11160	45.36	-8.64	54	55.33	39.43	15.51	65.2	220	143	A	H
		16740	48.38	-25.62	74	52.76	40.55	19.61	64.86	100	0	P	H
													H
		11155	54.32	-19.68	74	64.26	39.45	15.51	65.19	216	127	P	V
		11155	44.54	-9.46	54	54.48	39.45	15.51	65.19	216	127	A	V
		16740	46.12	-27.88	74	50.5	40.55	19.61	64.86	100	0	P	V
													V
802.11a CH 140 5700MHz		11400	49.2	-24.8	74	59.32	39.2	15.74	65.34	100	0	P	H
		17100	50.74	-23.26	74	52.67	42.36	19.82	64.46	100	0	P	H
													H
													H
		11400	48.84	-25.16	74	58.96	39.2	15.74	65.34	100	0	P	V
		17100	50.56	-23.44	74	52.49	42.36	19.82	64.46	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5460.4	49.13	-24.87	74	40.23	32.63	9.29	33.02	100	115	P	H
		5465.52	40.7	-13.3	54	31.78	32.65	9.29	33.02	100	115	A	H
	*	5500	96.63	-	-	87.61	32.7	9.34	33.02	100	115	P	H
	*	5500	89.27	-	-	80.25	32.7	9.34	33.02	100	115	A	H
													H
													H
		5390.8	50.24	-23.76	74	41.51	32.54	9.21	33.02	100	216	P	V
		5461.2	40.98	-13.02	54	32.08	32.63	9.29	33.02	100	216	A	V
	*	5500	99.21	-	-	90.19	32.7	9.34	33.02	100	216	P	V
	*	5500	91.53	-	-	82.51	32.7	9.34	33.02	100	216	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5424.88	49.53	-24.47	74	40.73	32.58	9.24	33.02	100	115	P	H
		5450.56	40.44	-13.56	54	31.54	32.63	9.29	33.02	100	115	A	H
	*	5580	98.14	-	-	88.95	32.8	9.46	33.07	100	115	P	H
	*	5580	89.1	-	-	79.91	32.8	9.46	33.07	100	115	A	H
		5735.39	49.15	-24.85	74	39.44	33.04	9.82	33.15	100	115	P	H
		5731.61	41.53	-12.47	54	31.85	33.01	9.82	33.15	100	115	A	H
		5388.64	49.31	-24.69	74	40.58	32.54	9.21	33.02	100	213	P	V
		5452.72	40.65	-13.35	54	31.75	32.63	9.29	33.02	100	213	A	V
	*	5580	100.4	-	-	91.21	32.8	9.46	33.07	100	213	P	V
	*	5580	89.68	-	-	80.49	32.8	9.46	33.07	100	213	A	V
		5760.275	50.13	-23.87	74	40.31	33.06	9.92	33.16	100	213	P	V
		5759.645	42.05	-11.95	54	32.23	33.06	9.92	33.16	100	213	A	V



	*	5700	98.37	-	-	88.75	32.97	9.77	33.12	100	113	P	H
	*	5700	89.84	-	-	80.22	32.97	9.77	33.12	100	113	A	H
		5744.2	50.5	-23.5	74	40.74	33.04	9.87	33.15	100	113	P	H
		5759.96	41.94	-12.06	54	32.12	33.06	9.92	33.16	100	113	A	H
													H
													H
802.11n													
HT20													
CH 140	*	5700	99.23	-	-	89.61	32.97	9.77	33.12	100	213	P	V
5700MHz	*	5700	91.08	-	-	81.46	32.97	9.77	33.12	100	213	A	V
		5755	50.44	-23.56	74	40.61	33.06	9.92	33.15	100	213	P	V
		5760.04	42.44	-11.56	54	32.62	33.06	9.92	33.16	100	213	A	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)	Cable 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	56.82	-17.18	74	66.65	39.6	15.37	65.1	189	196	P	H
		11000	46.6	-7.4	54	56.43	39.6	15.37	65.1	189	196	A	H
		16500	50.05	-23.95	74	56.2	39.2	19.45	65.1	100	0	P	H
													H
		11000	55.49	-18.51	74	65.32	39.6	15.37	65.1	100	119	P	V
		11000	44.95	-9.05	54	54.78	39.6	15.37	65.1	100	119	A	V
		16500	47.02	-26.98	74	53.17	39.2	19.45	65.1	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	57.18	-16.82	74	67.15	39.43	15.51	65.2	180	143	P	H
		11160	46.88	-7.12	54	56.85	39.43	15.51	65.2	180	143	A	H
		16740	47.73	-26.27	74	52.11	40.55	19.61	64.86	100	0	P	H
													H
		11160	55.87	-18.13	74	65.84	39.43	15.51	65.2	100	154	P	V
		11160	44.75	-9.25	54	54.72	39.43	15.51	65.2	100	154	A	V
		16740	46.53	-27.47	74	50.91	40.55	19.61	64.86	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	48.08	-25.92	74	58.2	39.2	15.74	65.34	100	0	P	H
		17100	49.36	-24.64	74	51.29	42.36	19.82	64.46	100	0	P	H
													H
													H
		11400	48.08	-25.92	74	58.2	39.2	15.74	65.34	100	0	P	V
		17100	49.36	-24.64	74	51.29	42.36	19.82	64.46	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 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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5365.6	49.32	-24.68	74	40.64	32.51	9.2	33.03	100	117	P	H
		5455.12	41.44	-12.56	54	32.54	32.63	9.29	33.02	100	117	A	H
	*	5510	93.01	-	-	83.98	32.7	9.36	33.03	100	117	P	H
	*	5510	85.96	-	-	76.93	32.7	9.36	33.03	100	117	A	H
		5757.44	49.73	-24.27	74	39.91	33.06	9.92	33.16	100	117	P	H
		5751.455	42.26	-11.74	54	32.5	33.04	9.87	33.15	100	117	A	H
		5463.04	49.43	-24.57	74	40.51	32.65	9.29	33.02	100	213	P	V
		5459.2	41.56	-12.44	54	32.66	32.63	9.29	33.02	100	213	A	V
	*	5510	95.43	-	-	86.4	32.7	9.36	33.03	100	213	P	V
	*	5510	87.69	-	-	78.66	32.7	9.36	33.03	100	213	A	V
802.11n HT40 CH 110 5550MHz		5749.88	49.45	-24.55	74	39.69	33.04	9.87	33.15	100	213	P	V
		5759.96	42.26	-11.74	54	32.44	33.06	9.92	33.16	100	213	A	V
		5426.8	48.52	-25.48	74	39.72	32.58	9.24	33.02	100	116	P	H
		5461.12	41.19	-12.81	54	32.29	32.63	9.29	33.02	100	116	A	H
	*	5550	92.19	-	-	83.06	32.77	9.41	33.05	100	116	P	H
	*	5550	85.31	-	-	76.18	32.77	9.41	33.05	100	116	A	H
		5753.975	50.34	-23.66	74	40.51	33.06	9.92	33.15	100	116	P	H
		5751.455	42.21	-11.79	54	32.45	33.04	9.87	33.15	100	116	A	H
		5463.04	49.8	-24.2	74	40.88	32.65	9.29	33.02	100	215	P	V
		5466.88	41.23	-12.77	54	32.29	32.65	9.31	33.02	100	215	A	V
802.11n HT40 CH 110 5550MHz	*	5550	96.69	-	-	87.56	32.77	9.41	33.05	100	215	P	V
	*	5550	88.06	-	-	78.93	32.77	9.41	33.05	100	215	A	V
		5754.605	49.3	-24.7	74	39.47	33.06	9.92	33.15	100	215	P	V
		5731.295	42.2	-11.8	54	32.52	33.01	9.82	33.15	100	215	A	V



802.11n HT40 CH 134 5670MHz		5467.95	48.83	-25.17	74	39.89	32.65	9.31	33.02	100	114	P	H
		5467.25	41.39	-12.61	54	32.45	32.65	9.31	33.02	100	114	A	H
	*	5670	95.77	-	-	86.27	32.94	9.67	33.11	100	114	P	H
	*	5670	88.33	-	-	78.83	32.94	9.67	33.11	100	114	A	H
		5731.575	50.45	-23.55	74	40.77	33.01	9.82	33.15	100	114	P	H
		5731.925	42.61	-11.39	54	32.93	33.01	9.82	33.15	100	114	A	H
		5459.9	48.42	-25.58	74	39.52	32.63	9.29	33.02	100	215	P	V
		5413.7	41.07	-12.93	54	32.27	32.58	9.24	33.02	100	215	A	V
	*	5670	98.18	-	-	88.68	32.94	9.67	33.11	100	215	P	V
	*	5670	90.22	-	-	80.72	32.94	9.67	33.11	100	215	A	V
		5741.375	50.99	-23.01	74	41.23	33.04	9.87	33.15	100	215	P	V
		5752.925	42.94	-11.06	54	33.16	33.06	9.87	33.15	100	215	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	50.9	-23.1	74	60.74	39.58	15.4	65.11	100	0	P	H
		16530	46.1	-27.9	74	52.02	39.39	19.46	65.07	100	0	P	H
													H
													H
		11020	49.76	-24.24	74	59.6	39.58	15.4	65.11	100	0	P	V
		16530	45.09	-28.91	74	51.01	39.39	19.46	65.07	100	0	P	V
													V
802.11n HT40 CH 110 5550MHz		11100	49.64	-24.36	74	59.54	39.5	15.47	65.16	100	0	P	H
		16650	46.87	-27.13	74	51.88	40.07	19.55	64.94	100	0	P	H
													H
													H
		11100	49.62	-24.38	74	59.52	39.5	15.47	65.16	100	0	P	V
		16650	45.38	-28.62	74	50.39	40.07	19.55	64.94	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	47.34	-26.66	74	57.41	39.27	15.67	65.3	100	0	P	H
		17010	49.35	-24.65	74	51.74	42.06	19.79	64.58	100	0	P	H
													H
													H
		11340	46.07	-27.93	74	56.14	39.27	15.67	65.3	100	0	P	V
		17010	48.77	-25.23	74	51.16	42.06	19.79	64.58	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 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5463.28	49.42	-24.58	74	40.5	32.65	9.29	33.02	217	111	P	H
		5454.4	41.89	-12.11	54	32.99	32.63	9.29	33.02	217	111	A	H
	*	5530	92.37	-	-	83.31	32.72	9.39	33.05	217	111	P	H
	*	5530	82.33	-	-	73.27	32.72	9.39	33.05	217	111	A	H
		5749.565	50.91	-23.09	74	41.15	33.04	9.87	33.15	217	111	P	H
		5759.96	42.76	-11.24	54	32.94	33.06	9.92	33.16	217	111	A	H
		5447.2	49.14	-24.86	74	40.26	32.63	9.27	33.02	100	213	P	V
		5470	42.6	-11.4	54	33.66	32.65	9.31	33.02	100	213	A	V
	*	5530	93.22	-	-	84.16	32.72	9.39	33.05	100	213	P	V
	*	5530	82.85	-	-	73.79	32.72	9.39	33.05	100	213	A	V
802.11ac VHT80 CH 122 5610MHz		5751.455	49.13	-24.87	74	39.37	33.04	9.87	33.15	100	213	P	V
		5759.96	42.58	-11.42	54	32.76	33.06	9.92	33.16	100	213	A	V
		5361.9	48.7	-25.3	74	40.02	32.51	9.2	33.03	228	112	P	H
		5453.25	41.4	-12.6	54	32.5	32.63	9.29	33.02	228	112	A	H
	*	5610	92.58	-	-	83.29	32.84	9.53	33.08	228	112	P	H
	*	5610	82.59	-	-	73.3	32.84	9.53	33.08	228	112	A	H
		5735.705	49.16	-24.84	74	39.4	33.04	9.87	33.15	228	112	P	H
		5734.445	42.43	-11.57	54	32.75	33.01	9.82	33.15	228	112	A	H
		5437.85	49.17	-24.83	74	40.31	32.61	9.27	33.02	100	219	P	V
		5424.9	41.2	-12.8	54	32.4	32.58	9.24	33.02	100	219	A	V
Remark	1.	No other spurious found.											
	2.	All results are PASS against Peak and Average limit line.											



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	47.32	-26.68	74	57.2	39.53	15.44	65.14	100	0	P	H
		16590	48.21	-25.79	74	53.73	39.68	19.51	65.01	100	0	P	H
													H
													H
		11060	47.11	-26.89	74	56.99	39.53	15.44	65.14	100	0	P	V
		16590	48.92	-25.08	74	54.44	39.68	19.51	65.01	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	47.69	-26.31	74	57.67	39.38	15.58	65.23	100	0	P	H
		16830	47.13	-26.87	74	50.87	41.03	19.67	64.77	100	0	P	H
													H
													H
		11220	47.5	-26.5	74	57.48	39.38	15.58	65.23	100	0	P	V
		16830	46.98	-27.02	74	50.72	41.03	19.67	64.77	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 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+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 144 5720MHz	*	5720	98.92	-	-	89.22	33.01	9.82	33.13	212	194	P	H
	*	5720	89.2	-	-	79.5	33.01	9.82	33.13	212	194	A	H
													H
													H
													H
	*	5720	100.6	-	-	90.9	33.01	9.82	33.13	100	254	P	V
	*	5720	90.91	-	-	81.21	33.01	9.82	33.13	100	254	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	47.86	-26.14	74	58	39.17	15.77	65.36	100	0	P	H
		17160	52.24	-15.96	68.2	53.82	42.6	19.84	64.37	100	0	P	H
													H
													H
		11440	48.92	-25.08	74	59.06	39.17	15.77	65.36	100	0	P	V
		17160	50.62	-17.58	68.2	52.2	42.6	19.84	64.37	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 - Straddle Channel

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5720	99.65	-	-	89.95	33.01	9.82	33.13	212	194	P	H
	*	5720	89.9	-	-	80.2	33.01	9.82	33.13	212	194	A	H
													H
													H
													H
													H
	*	5720	102.04	-	-	92.34	33.01	9.82	33.13	100	254	P	V
	*	5720	91.51	-	-	81.81	33.01	9.82	33.13	100	254	A	V
													V
													V
													V
Remark													
1. No other spurious found.													
2. All results are PASS against Peak and Average limit line.													



Band 3 - Straddle Channel

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	46.88	-27.12	74	57.02	39.17	15.77	65.36	100	0	P	H
		17160	51.29	-16.91	68.2	52.87	42.6	19.84	64.37	100	0	P	H
													H
													H
		11440	47.5	-26.5	74	57.64	39.17	15.77	65.36	100	0	P	V
		17160	51.06	-17.14	68.2	52.64	42.6	19.84	64.37	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 - Straddle Channel

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz	*	5710	95.84	-	-	86.21	32.99	9.77	33.13	212	194	P	H
	*	5710	86.43	-	-	76.8	32.99	9.77	33.13	212	194	A	H
													H
													H
													H
													H
	*	5710	97.42	-	-	87.79	32.99	9.77	33.13	100	254	P	V
	*	5710	88.04	-	-	78.41	32.99	9.77	33.13	100	254	A	V
													V
													V
													V
Remark													
1. No other spurious found.													
2. All results are PASS against Peak and Average limit line.													



Band 3 - Straddle Channel

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	45.68	-28.32	74	55.82	39.18	15.75	65.35	100	0	P	H
		17130	51.05	-17.15	68.2	52.8	42.48	19.83	64.41	100	0	P	H
													H
													H
		11420	45.99	-28.01	74	56.13	39.18	15.75	65.35	100	0	P	V
		17130	51.13	-17.07	68.2	52.88	42.48	19.83	64.41	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 - Straddle Channel

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	91.95	-	-	82.38	32.97	9.72	33.12	219	180	P	H
	*	5690	82.03	-	-	72.46	32.97	9.72	33.12	219	180	A	H
													H
													H
													H
													H
	*	5690	92.6	-	-	83.03	32.97	9.72	33.12	100	249	P	V
	*	5690	82.92	-	-	73.35	32.97	9.72	33.12	100	249	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	46.37	-27.63	74	56.47	39.22	15.72	65.33	100	0	P	H
		17070	50.87	-17.33	68.2	52.98	42.24	19.81	64.51	100	0	P	H
													H
													H
		11380	46.69	-27.31	74	56.79	39.22	15.72	65.33	100	0	P	V
		17070	51.11	-17.09	68.2	53.22	42.24	19.81	64.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a	LF	30	23.72	-16.28	40	29.81	25.7	0.68	32.5	-	-	P	H
		105.06	26.2	-17.3	43.5	40.76	16.65	1.27	32.5	-	-	P	H
		160.14	25.03	-18.47	43.5	39.15	16.9	1.61	32.73	-	-	P	H
		685.7	28.57	-17.43	46	31.09	26.56	3.27	32.47	-	-	P	H
		834.1	30.9	-15.1	46	30.41	28.71	3.63	32	-	-	P	H
		941.9	33.04	-12.96	46	29.94	30.38	3.82	31.27	102	241	P	H
													H
													H
													H
													H
													H
													H
													V
		30	31.25	-8.75	40	37.34	25.7	0.68	32.5	-	-	P	V
		59.7	32.94	-7.06	40	52.45	11.9	1.06	32.49	143	101	P	V
		79.41	24.1	-15.9	40	41.77	13.58	1.22	32.48	-	-	P	V
Remark		757.8	30.06	-15.94	46	30.97	27.79	3.47	32.3	-	-	P	V
		869.8	32.11	-13.89	46	31.03	29.02	3.73	31.82	-	-	P	V
		948.9	32.5	-13.5	46	29.15	30.57	3.82	31.21	-	-	P	V
													V
													V
													V
													V
													V

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

**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(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. Level(dB μ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

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

For Peak Limit @ 2390MHz:

1. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB μ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 55.45(\text{dB μ V/m}) - 74(\text{dB μ V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

1. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB μ V/m})$$

2. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 43.54(\text{dB μ V/m}) - 54(\text{dB μ V/m})$$

$$= -10.46(\text{dB})$$

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	Temperature :	18~22°C
		Relative Humidity :	55~60%

Note symbol

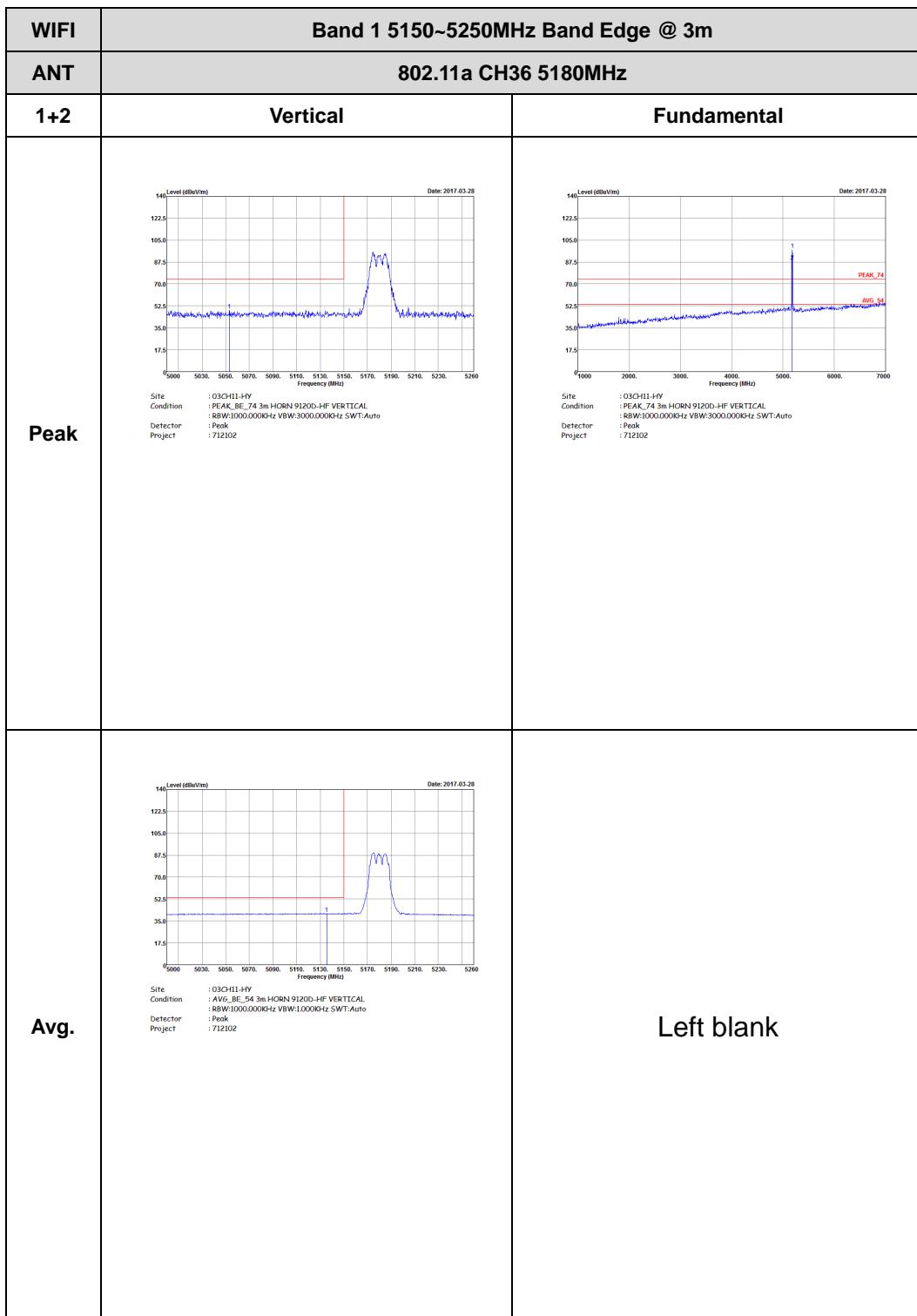
-L	Low channel location
-R	High channel location

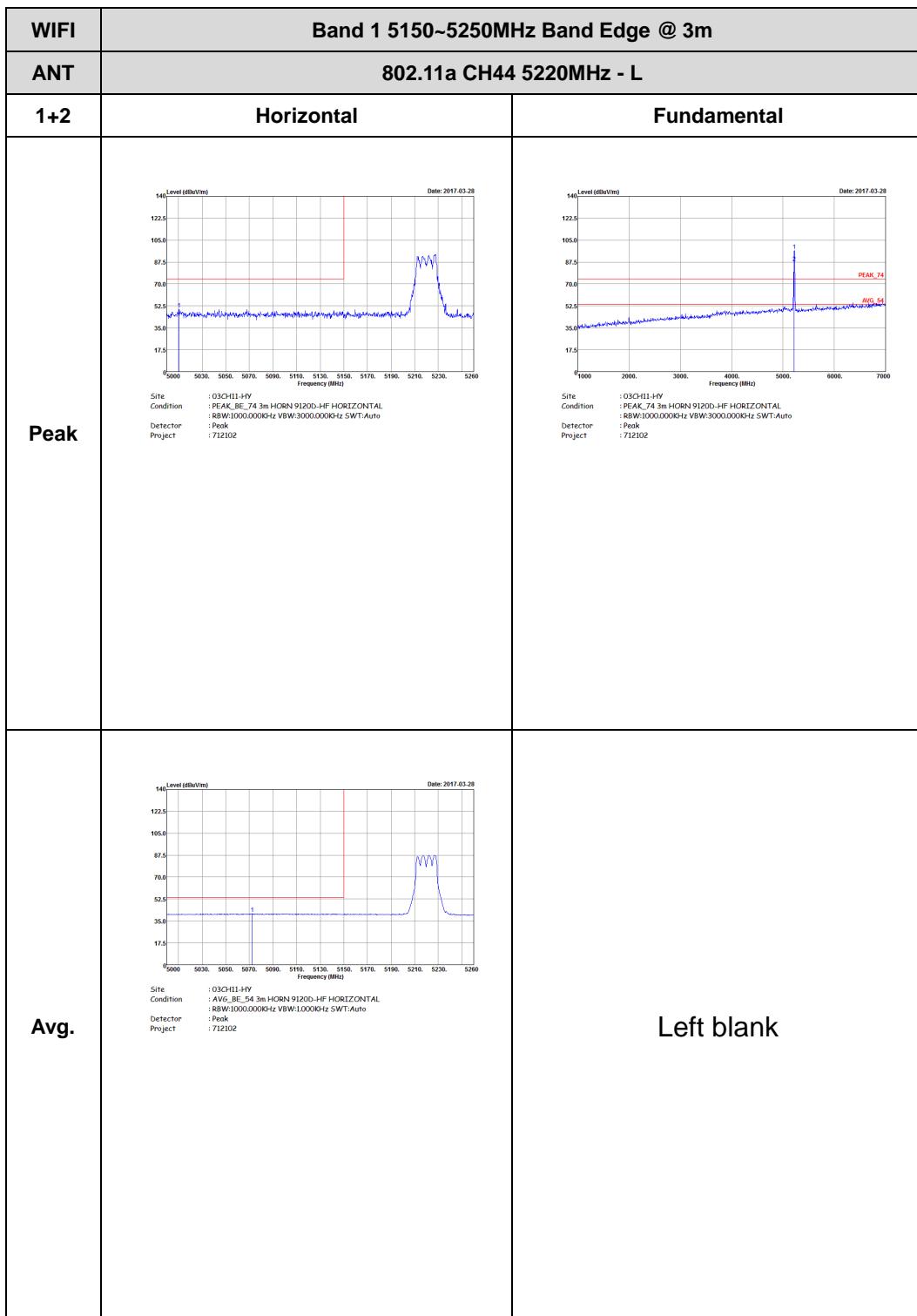


Band 1 - 5150~5250MHz

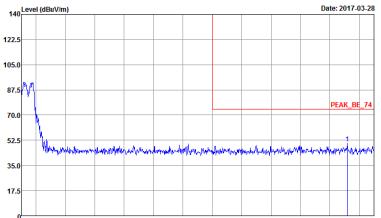
WIFI 802.11a (Band Edge @ 3m)

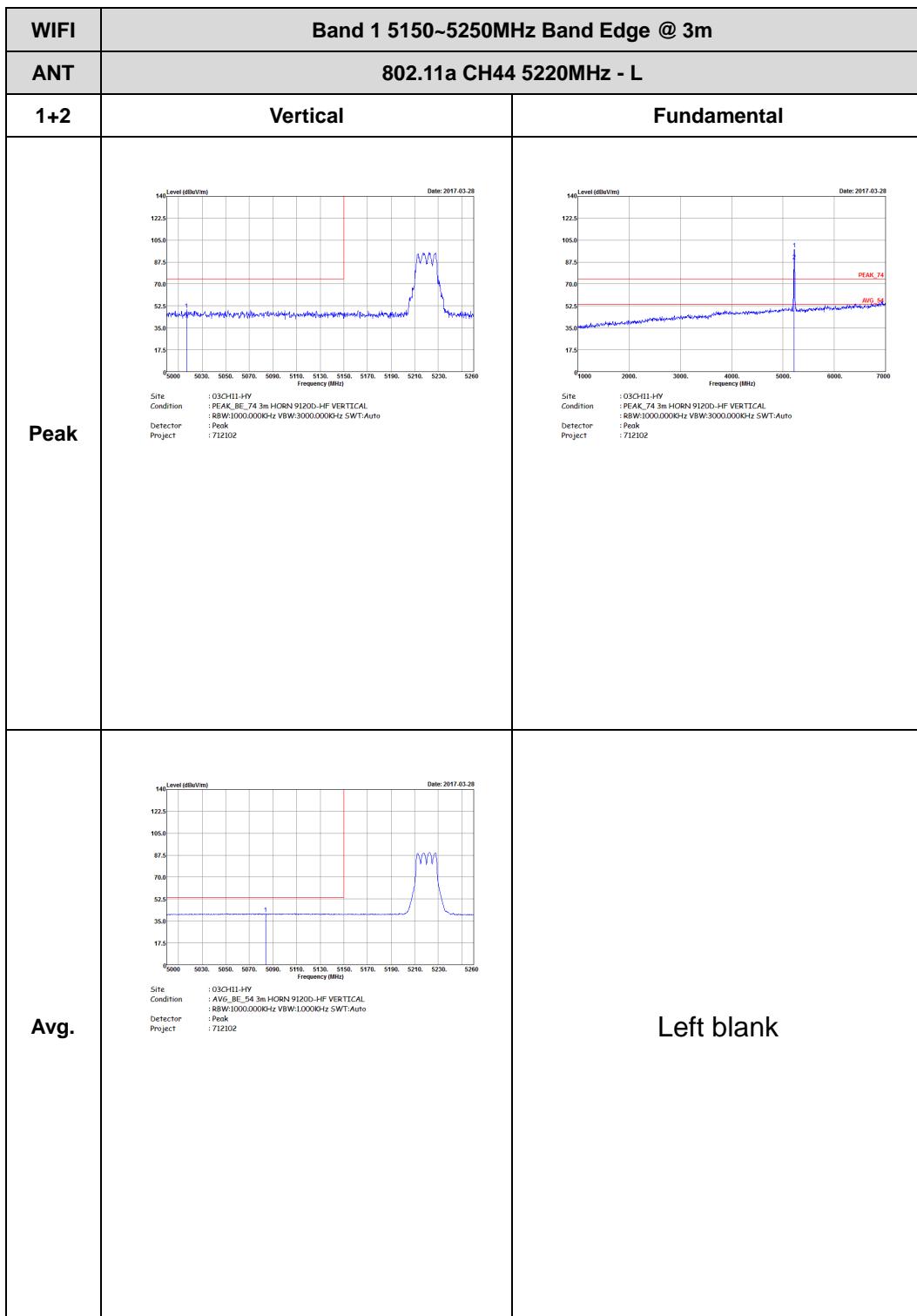
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000Hz SWT:Auto Project : Peak Date: 2017-03-28	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000Hz SWT:Auto Project : Peak Date: 2017-03-28 PEAK_74 AVG_54
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:10000Hz SWT:Auto Project : Peak Date: 2017-03-28	Left blank



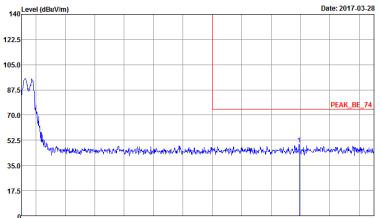


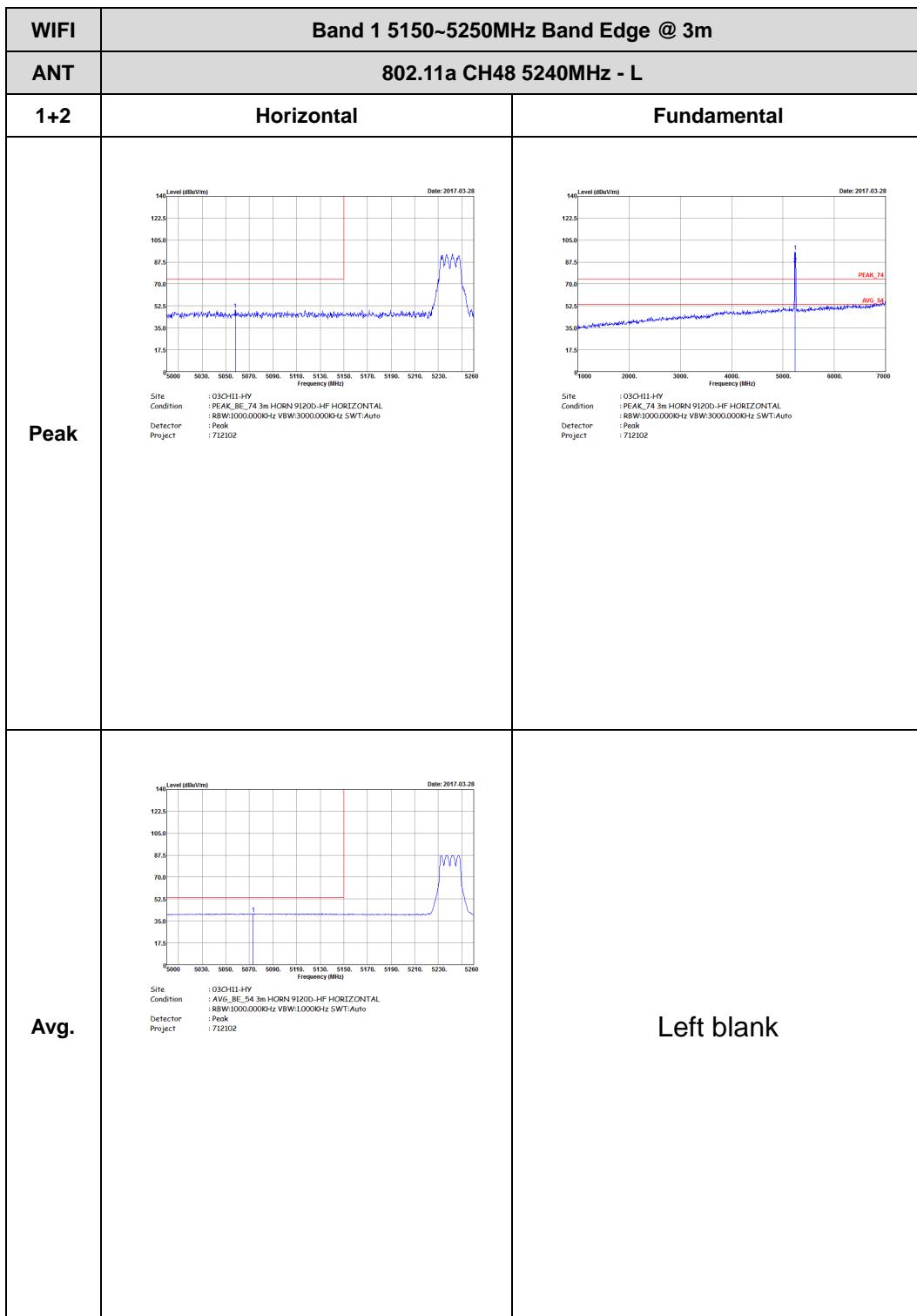


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

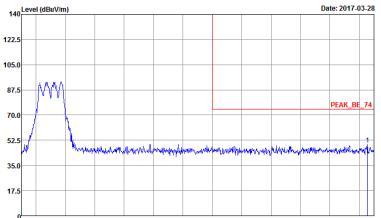




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5220MHz with a value around 87.0 dBc/1m. The background noise floor is around 35.0 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak :712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average level labeled 'AVG_BE_54' at approximately 5220MHz with a value around 52.0 dBc/1m. The background noise floor is around 35.0 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak :712102</p>	Left blank



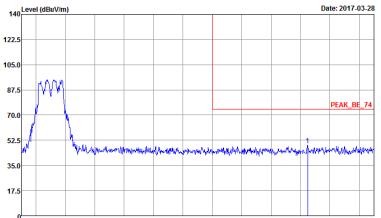


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



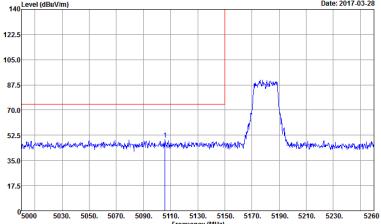
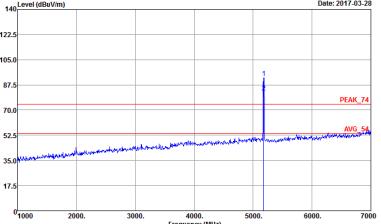
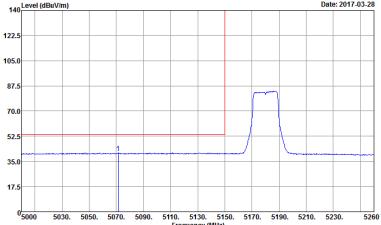
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:1000Hz SWT:Auto Detector : Peak Project : 712102	Left blank

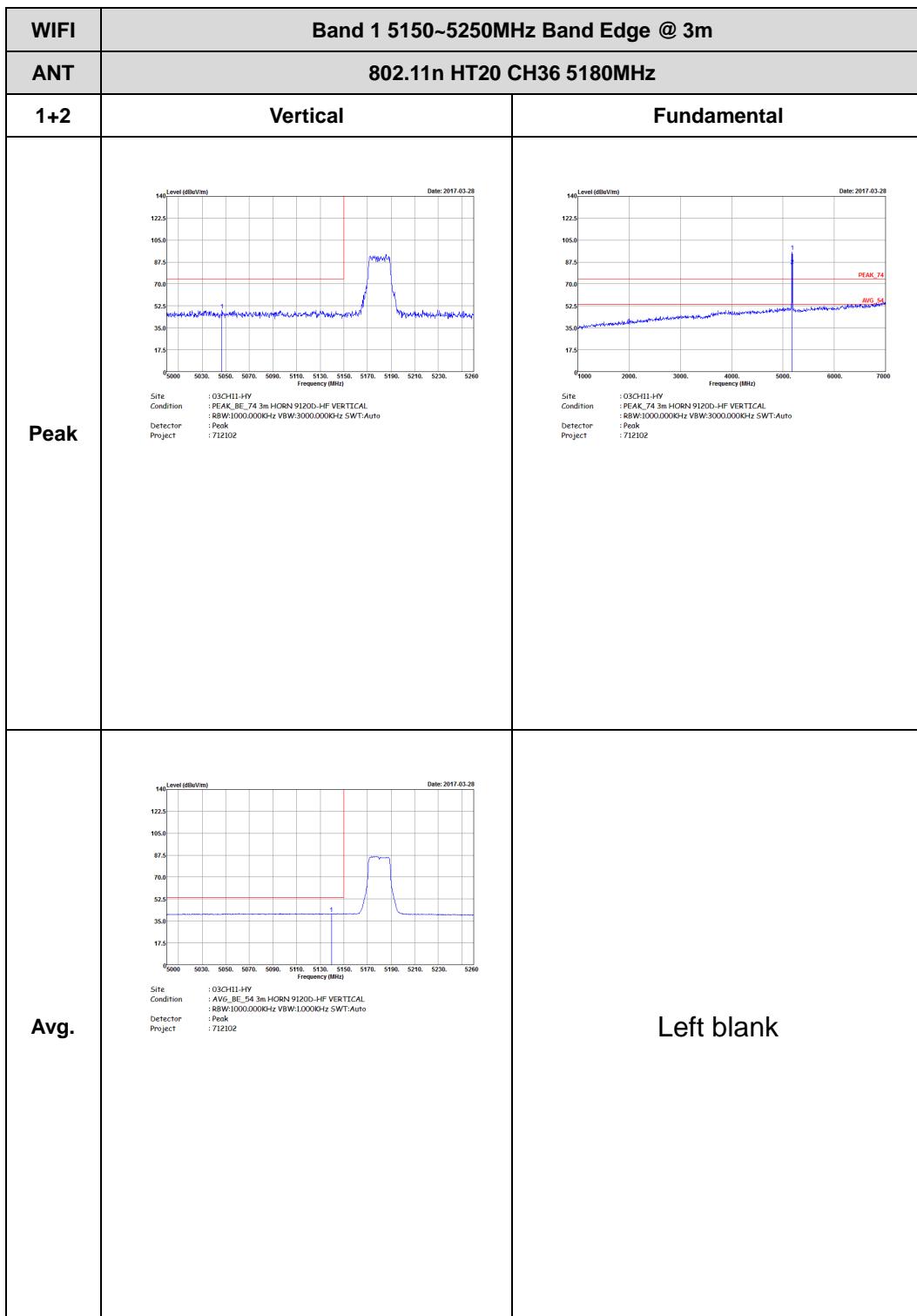


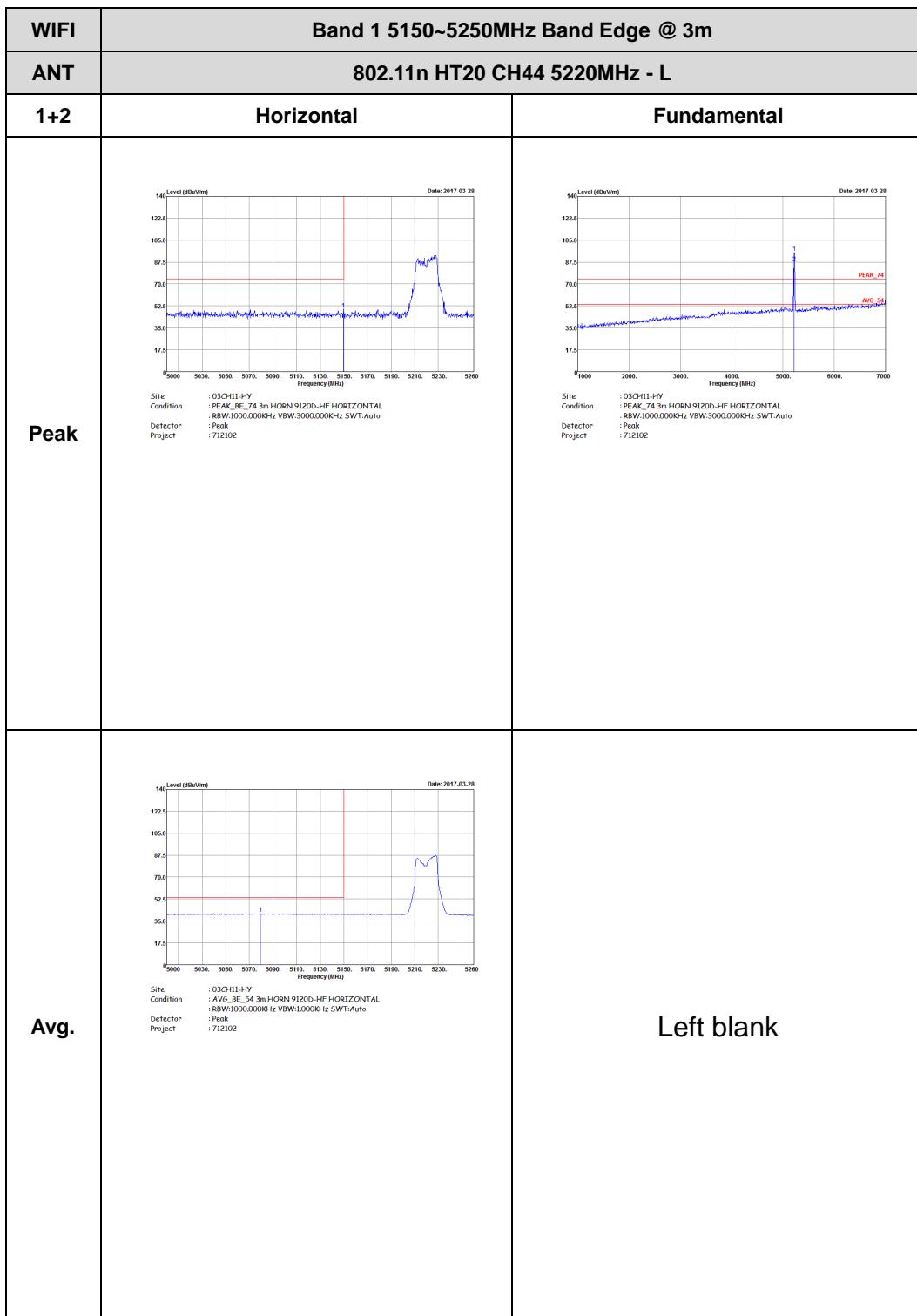
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank



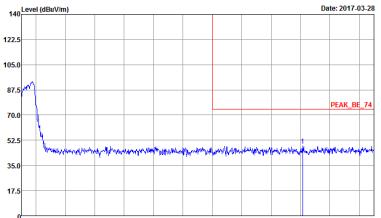
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

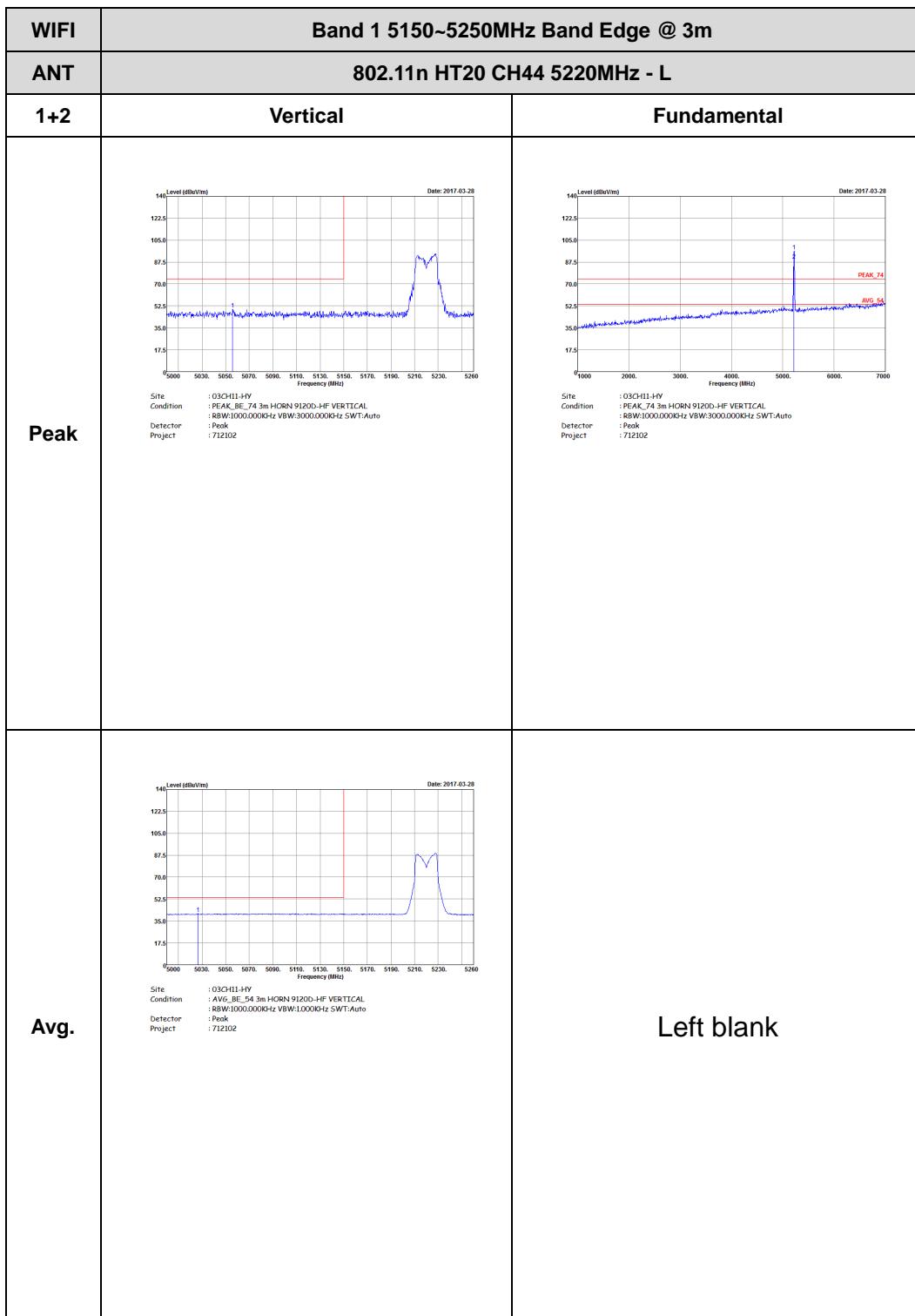
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5250. A sharp peak is labeled at 5174 MHz. The plot includes a red reference line at approximately 74 dBuV/m and a blue noise floor line. Text below the plot: Site: 03CH11-HY, Condition: PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL, Detector: AVG, Project: 712102.</p>	 <p>Level (dBuV/m) vs Frequency (MHz) from 1000 to 7000. A sharp peak is labeled at 5174 MHz. The plot includes a red reference line at approximately 74 dBuV/m and a blue noise floor line. Text below the plot: Site: 03CH11-HY, Condition: PEAK_74 3m HORN 9120D-HF HORIZONTAL, Detector: Peak, Project: 712102.</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) from 5000 to 5250. A broad peak is labeled at 5174 MHz. The plot includes a red reference line at approximately 54 dBuV/m and a blue noise floor line. Text below the plot: Site: 03CH11-HY, Condition: AVG_BE_54 3m HORN 9120D-HF HORIZONTAL, Detector: Peak, Project: 712102.</p>	Left blank



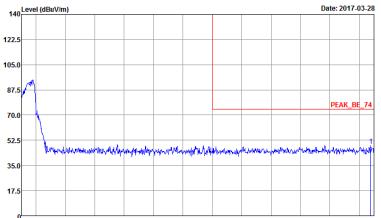


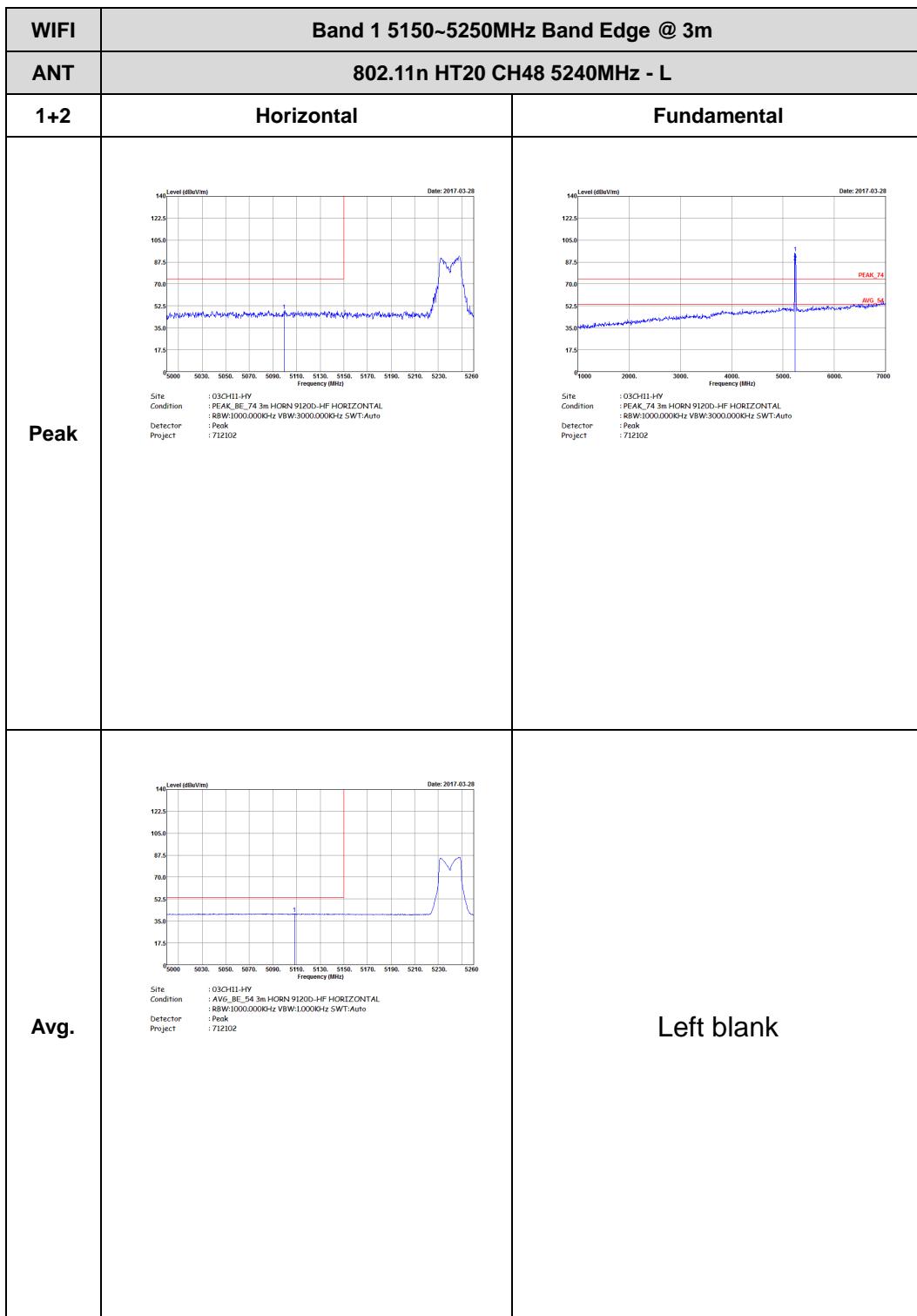


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5220MHz. The baseline level is around 35 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average level labeled 'AVG_BE_54' at approximately 5220MHz. The baseline level is around 35 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

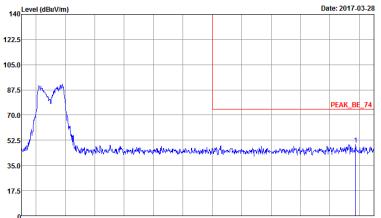


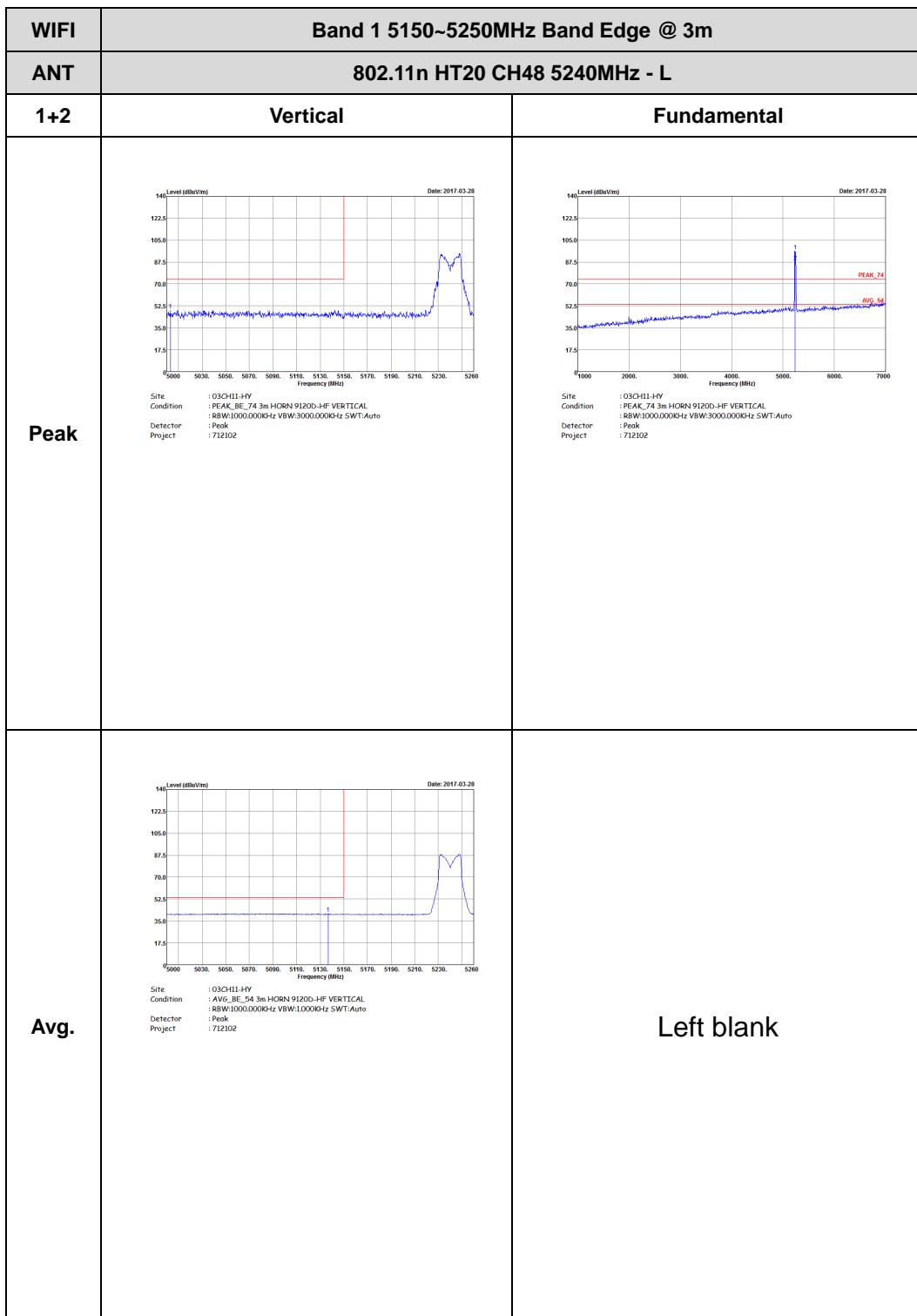


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank

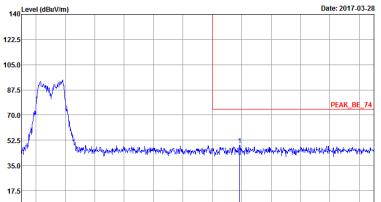
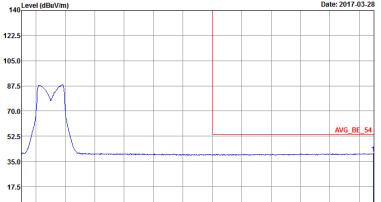




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5240MHz. The baseline is flat around 35 dBc.</p> <p>Date: 2017-03-28</p> <p>Site: 03CH11-HY Condition: PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL :RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector: Peak Project: 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad average envelope labeled 'AVG_BE_54' centered around 5240MHz. The baseline is flat around 35 dBc.</p> <p>Date: 2017-03-28</p> <p>Site: 03CH11-HY Condition: AVG_BE_54 3m HORN 9120D-HF HORIZONTAL :RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector: Peak Project: 712102</p>	Left blank

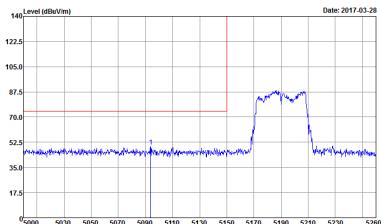
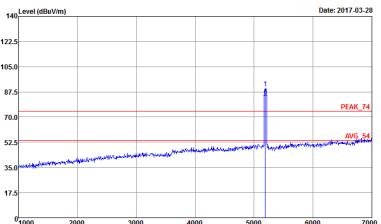
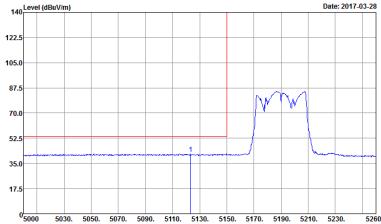




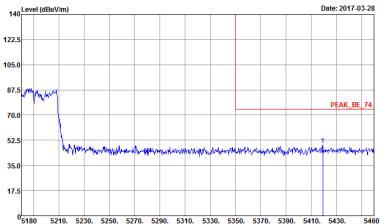
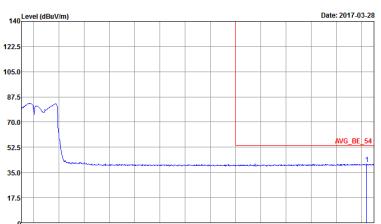
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5240MHz.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad peak labeled 'AVG_BE_54' at approximately 5240MHz.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank

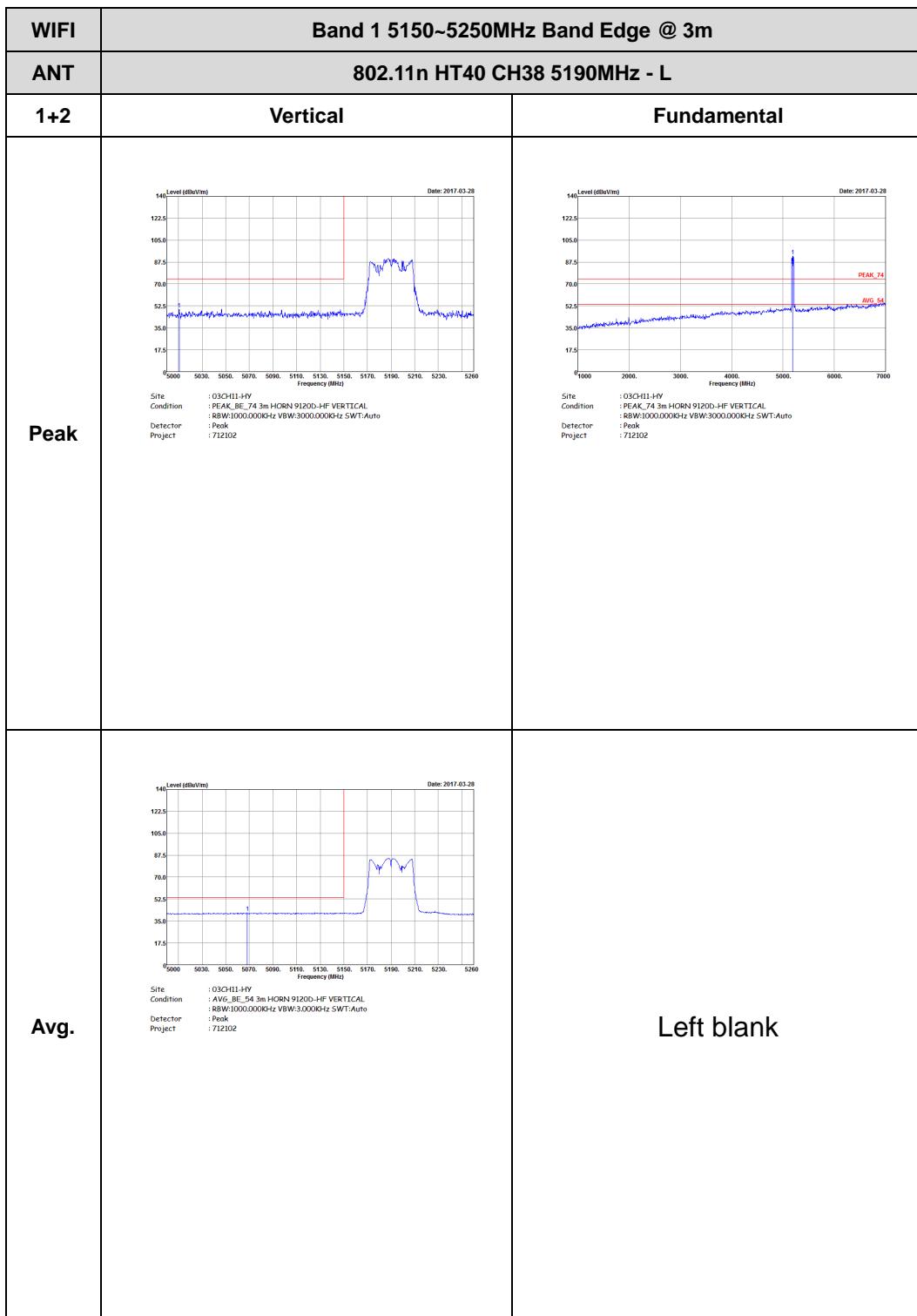


Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

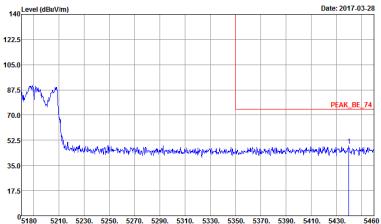
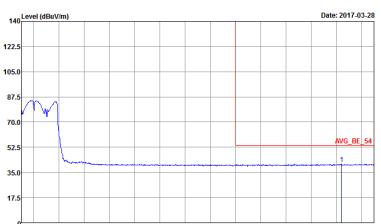
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 712102</p>	Left blank

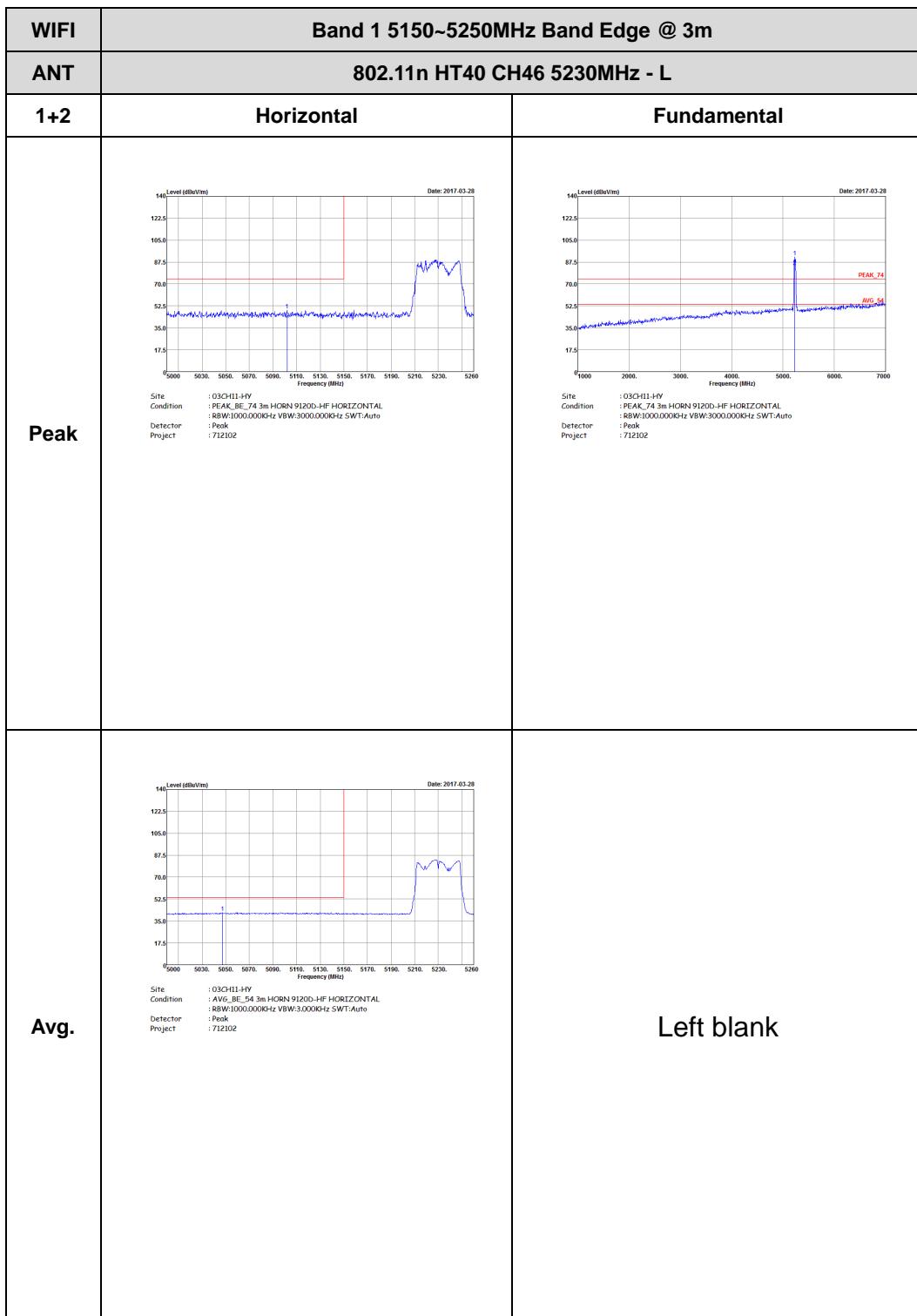


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5190MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. The plot shows a broad average level labeled 'AVG_BE_54' at approximately 5190MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5180 to 5460 MHz. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

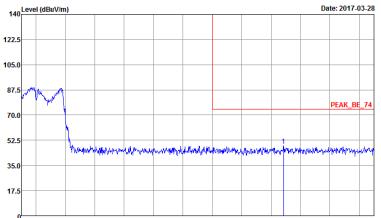


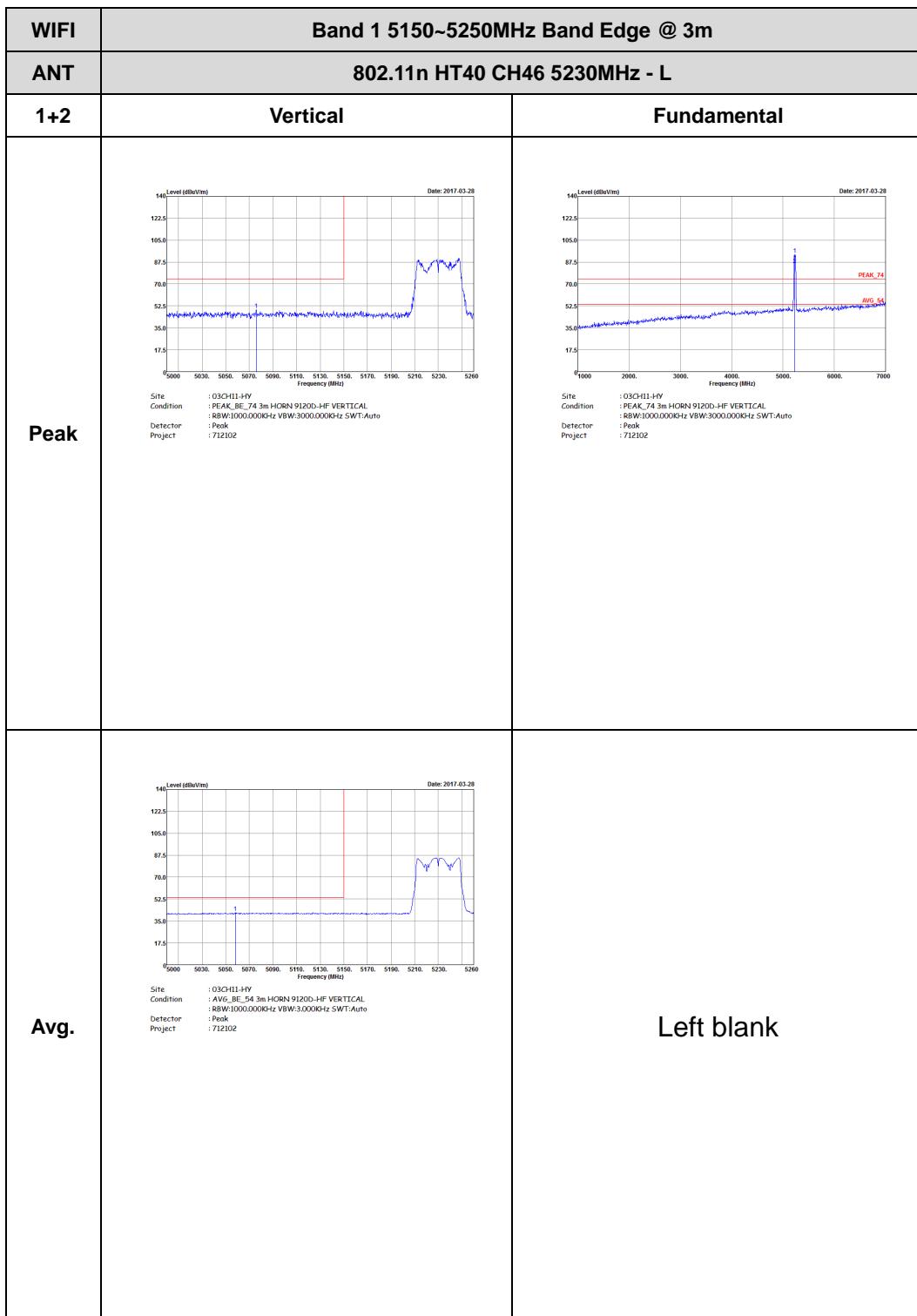


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A sharp peak is labeled PEAK_BE_74 at approximately 5190MHz.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A broad average level is labeled AVG_BE_54 at approximately 5190MHz.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank

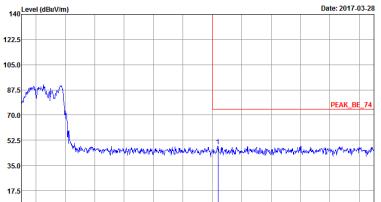
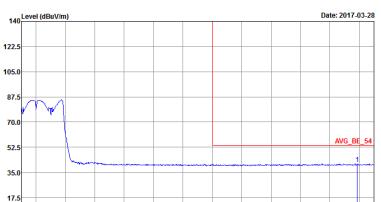




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m)</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBmV/m)</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



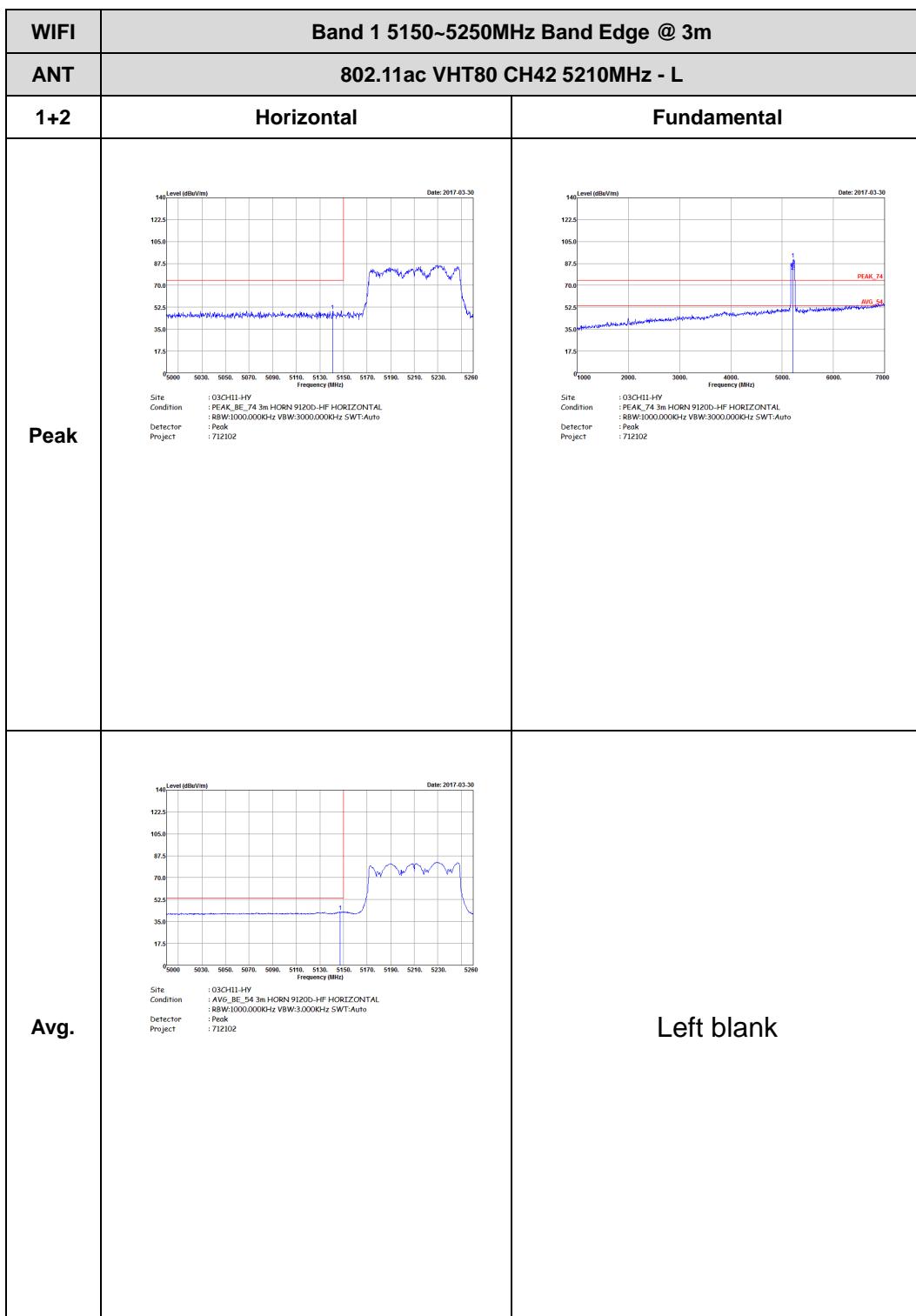


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank



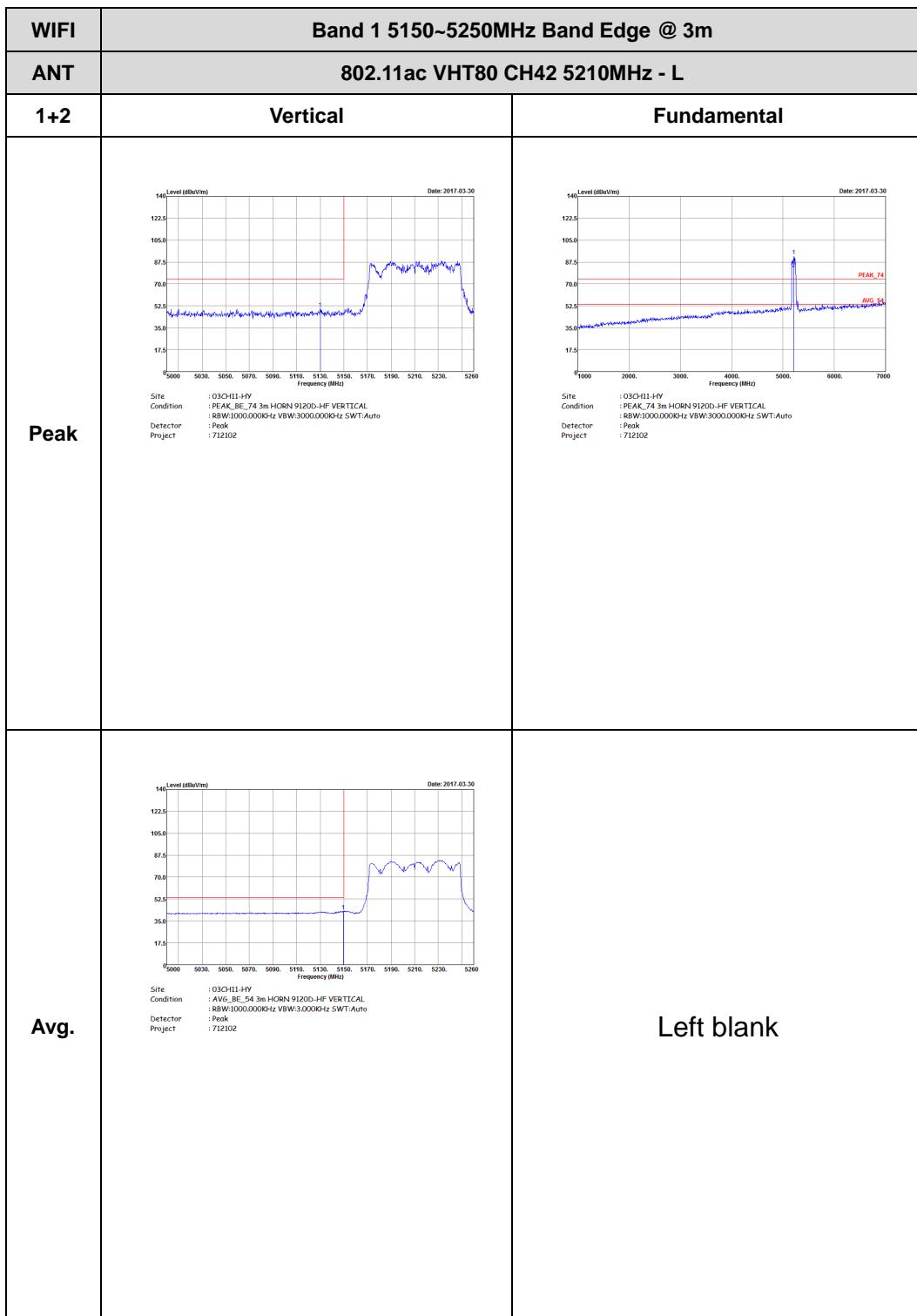
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

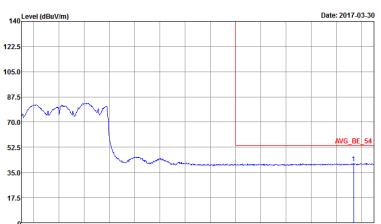




WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102	Left blank



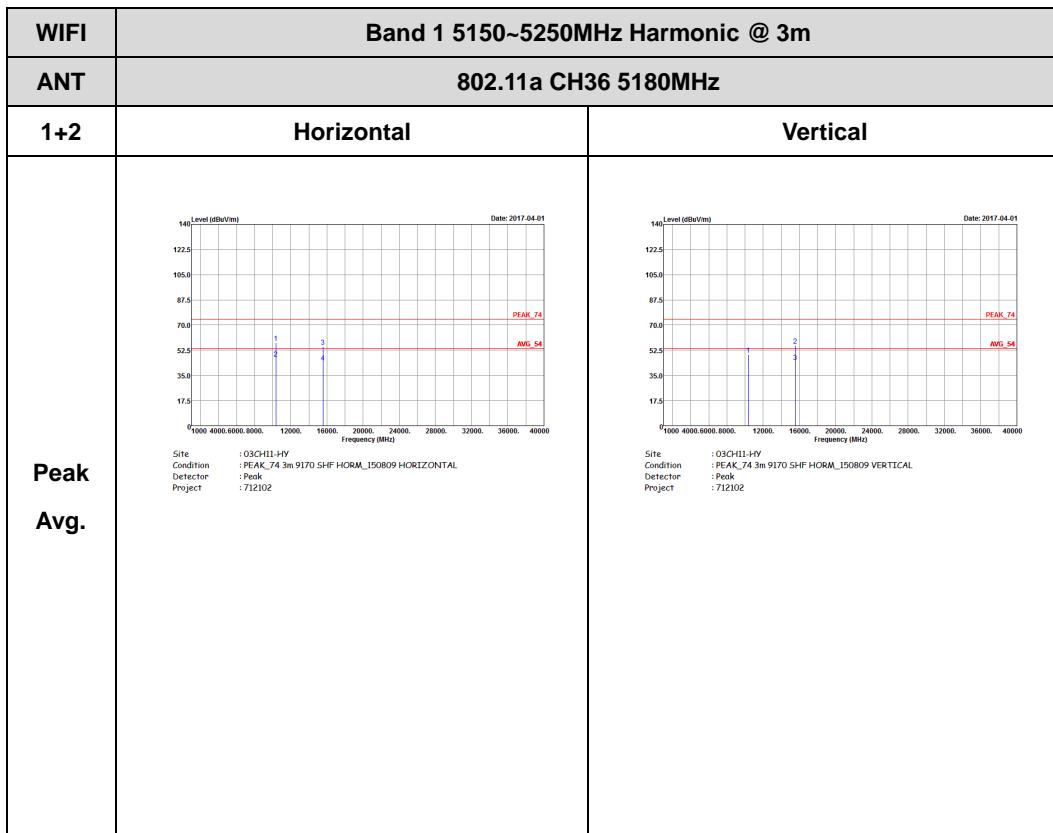


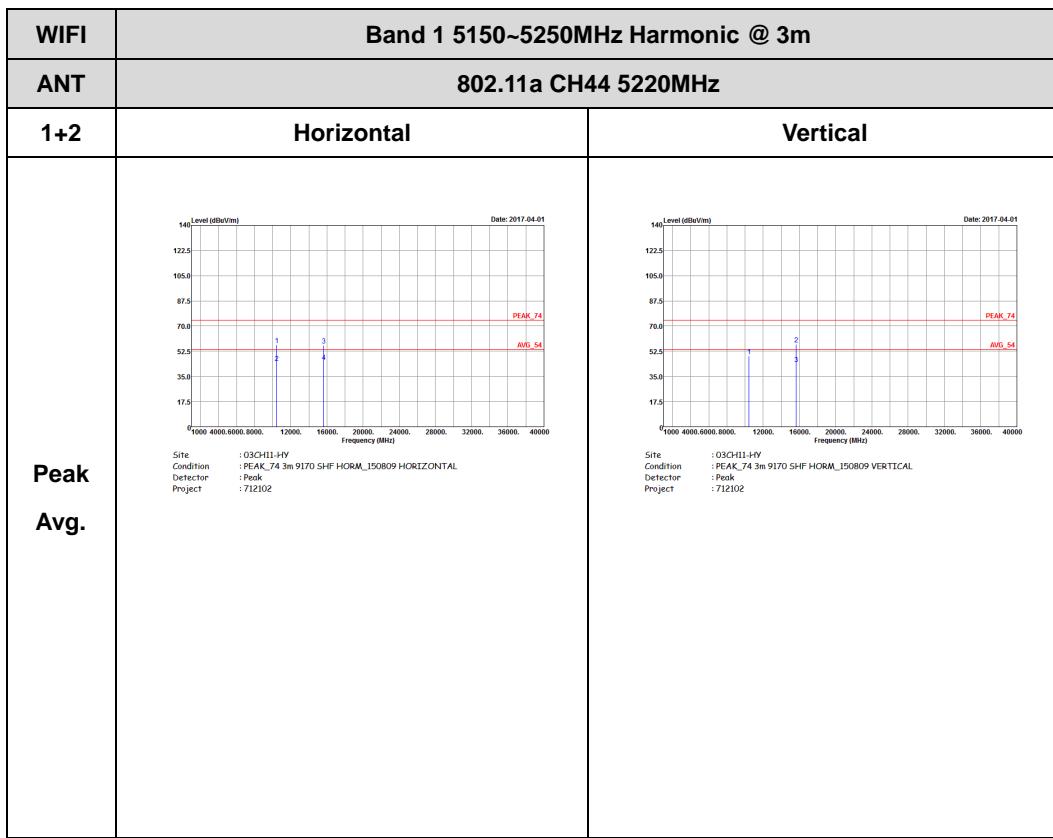
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A red vertical bar highlights the peak at 5210 MHz. The plot shows a sharp increase in level starting around 5200 MHz, peaking at approximately 125 dBc/1m, and then decreasing.</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A red vertical bar highlights the average envelope at 5210 MHz. The plot shows a broad envelope centered around 5210 MHz, peaking at approximately 125 dBc/1m.</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

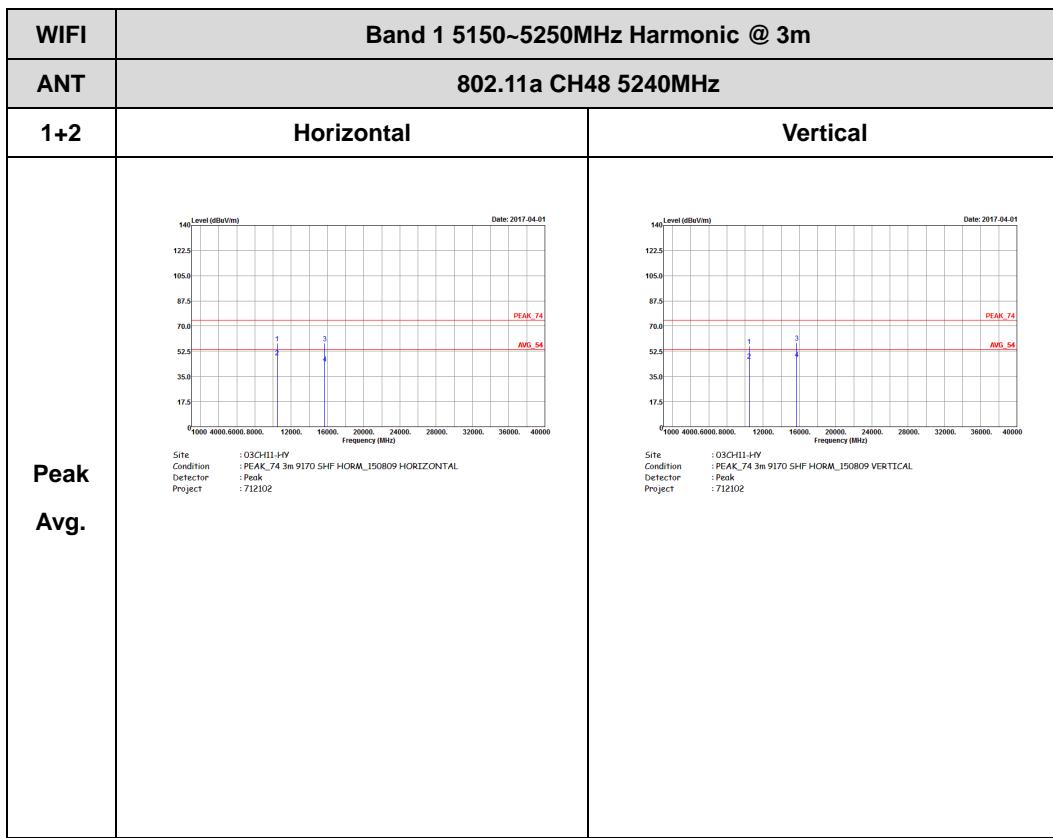


Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

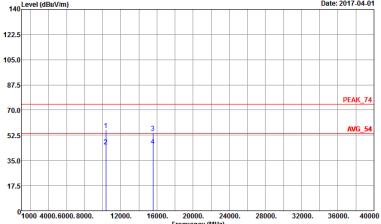
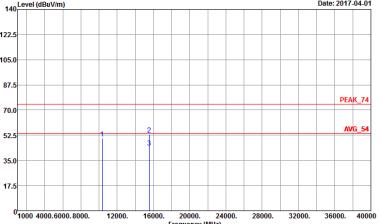


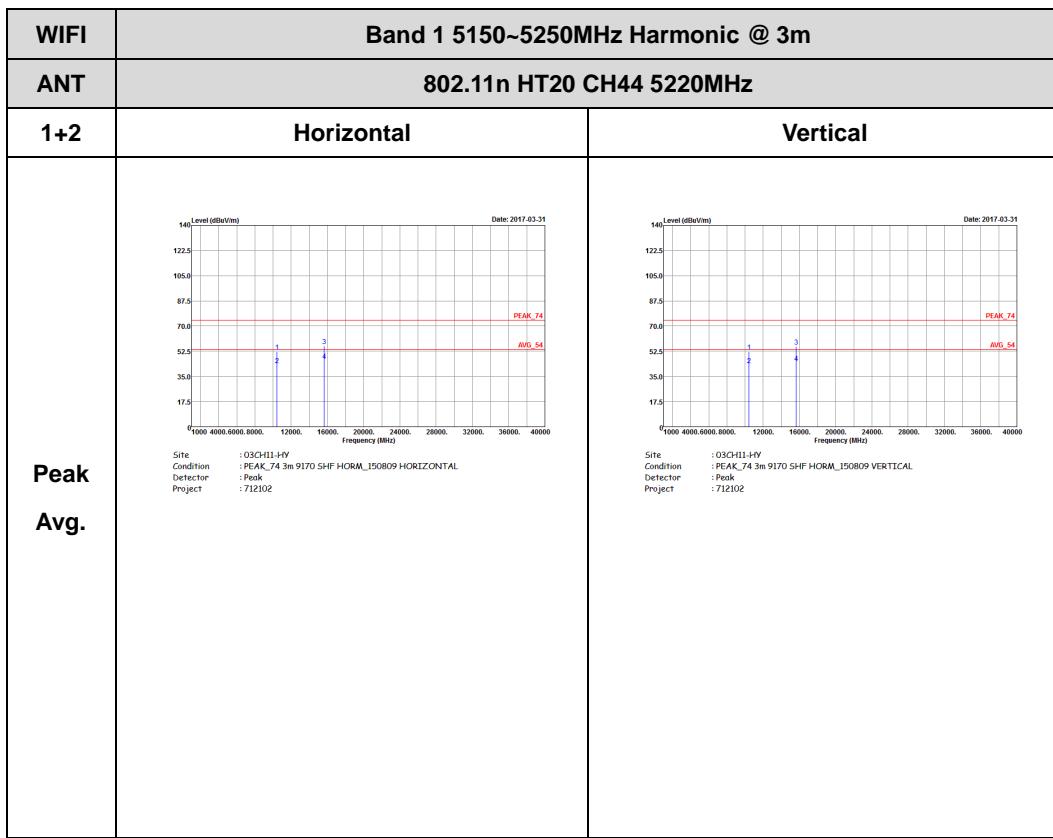


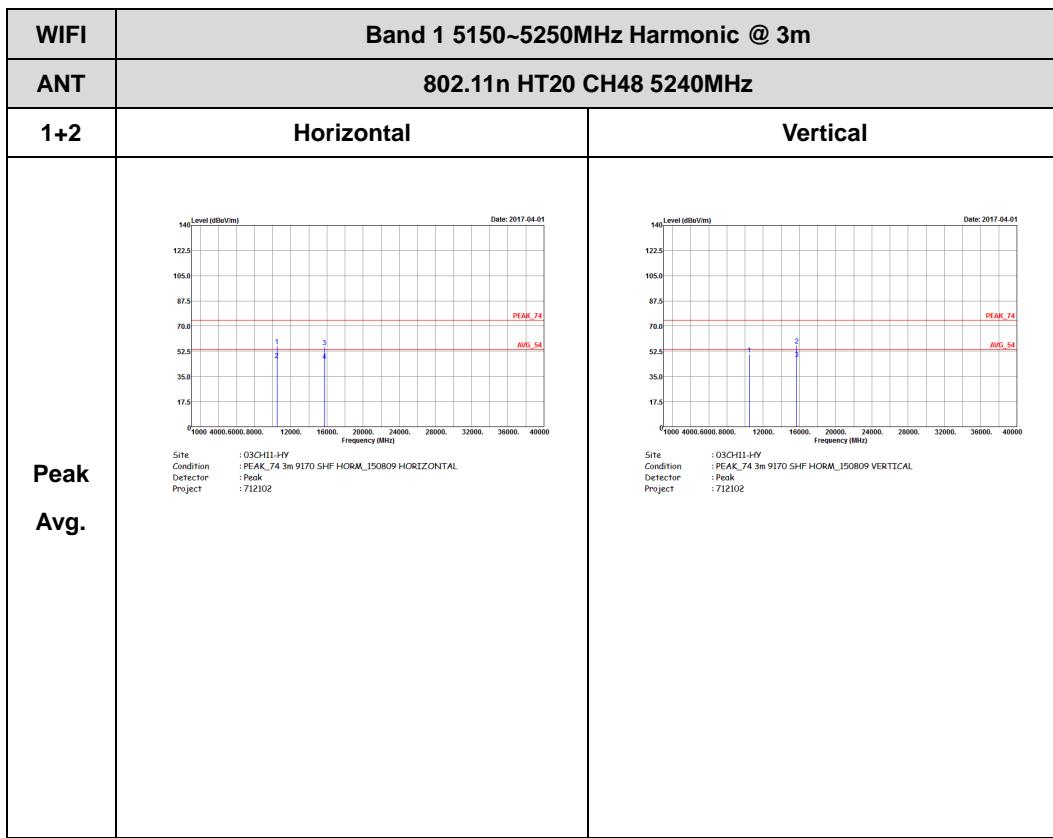




Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

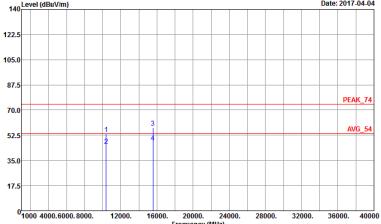
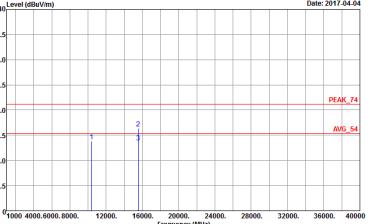
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal measurement. The plot shows a sharp peak at approximately 1200 MHz and another at approximately 1600 MHz. The x-axis ranges from 1000 to 40000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m. A red horizontal line marks the level at 70.0 dBuV/m, labeled 'PEAK_74'. A red vertical line marks the level at 54.0 dBuV/m, labeled 'AVG_54'. Blue vertical lines indicate the detection limits at 1200 MHz and 1600 MHz.</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 712102</p>	 <p>Level (dBuV/m) vs Frequency (MHz) for Vertical measurement. The plot shows a sharp peak at approximately 1200 MHz and another at approximately 1600 MHz. The x-axis ranges from 1000 to 40000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m. A red horizontal line marks the level at 70.0 dBuV/m, labeled 'PEAK_74'. A red vertical line marks the level at 54.0 dBuV/m, labeled 'AVG_54'. Blue vertical lines indicate the detection limits at 1200 MHz and 1600 MHz.</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 712102</p>

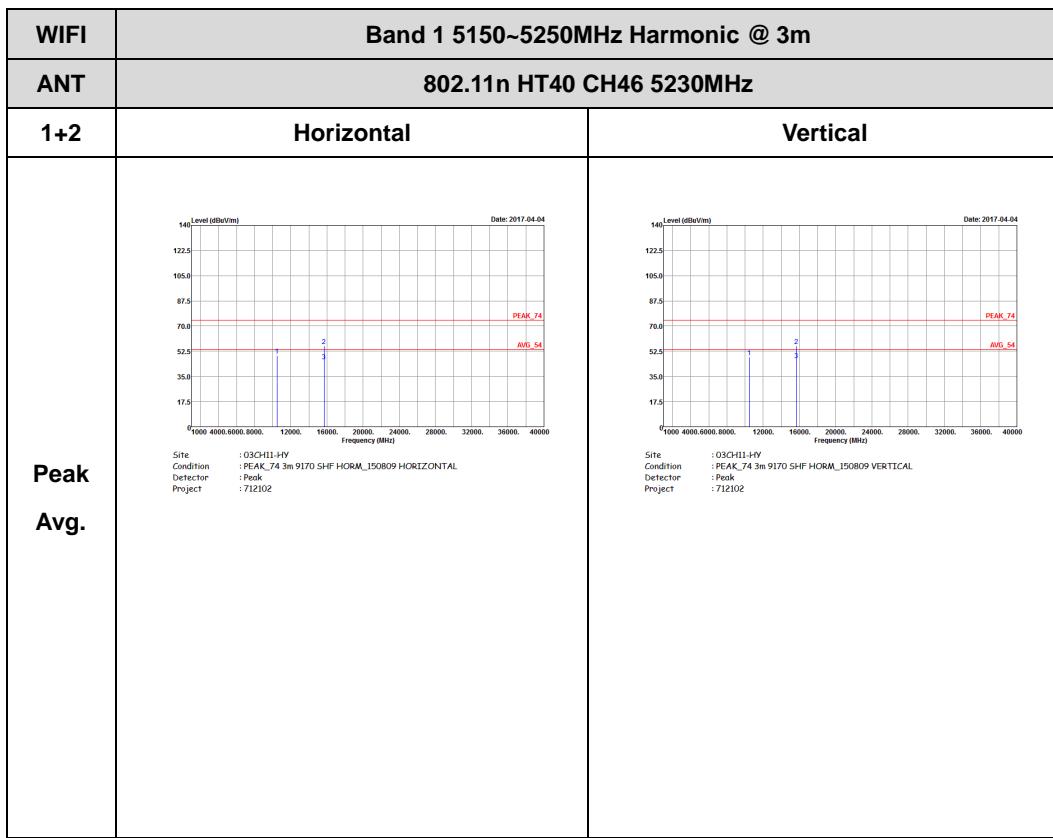






Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

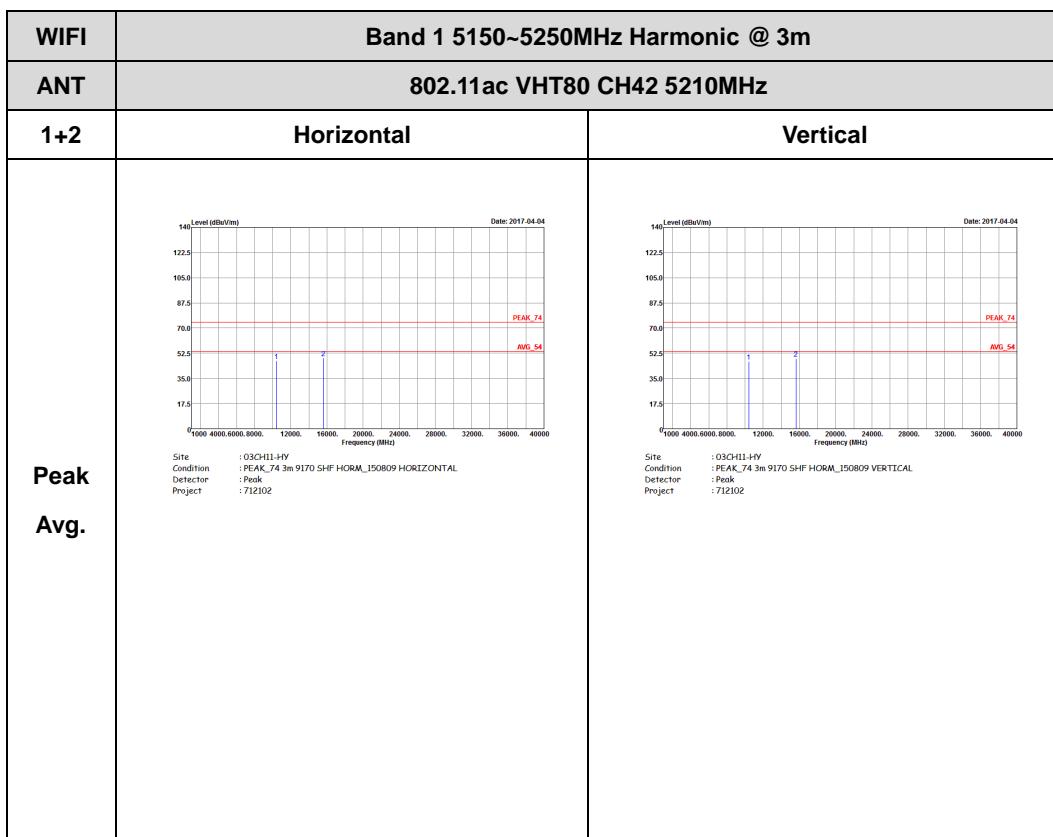
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 712102</p>
Avg.		





Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)



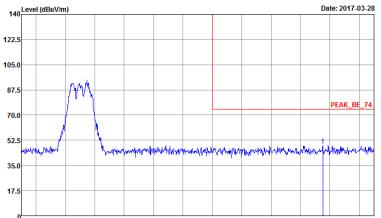


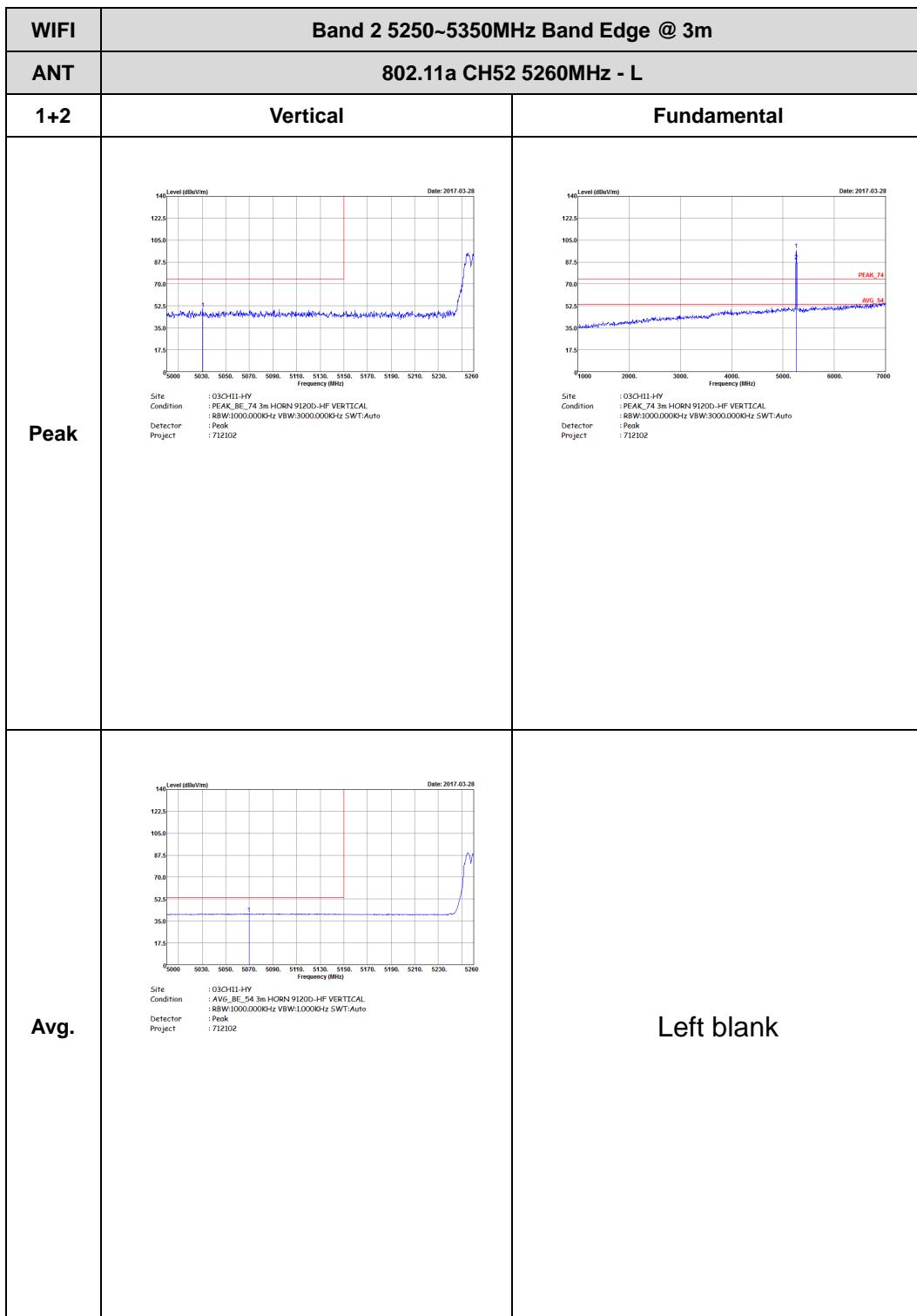
Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

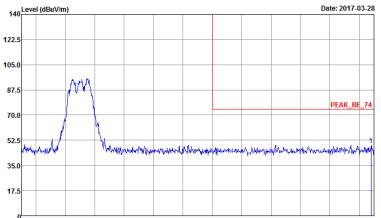
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 712102	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:3000.000Hz SWT:Auto Project : 712102
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : R8W:1000.000KHz VBW:10000Hz SWT:Auto Project : 712102	Left blank



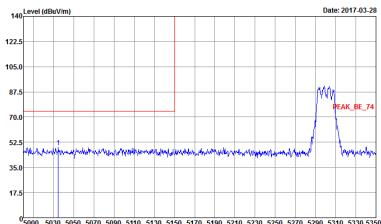
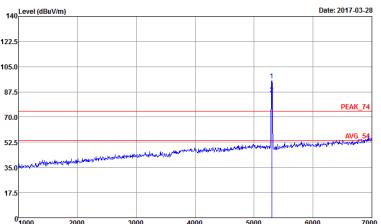
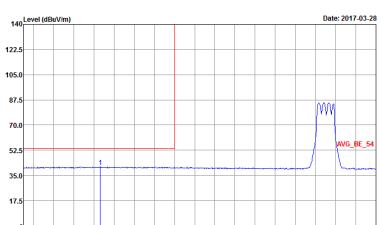
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak around 5260 MHz reaching approximately 85 dBc/1m. A red step function indicates the band edge. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad peak around 5260 MHz reaching approximately 85 dBc/1m. A red step function indicates the band edge. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



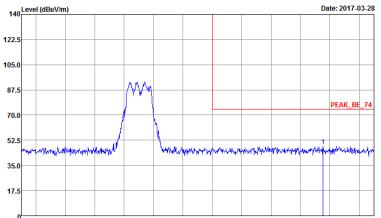
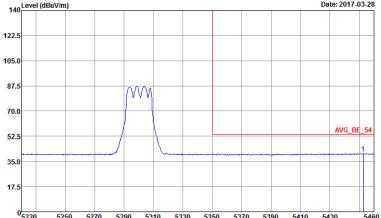


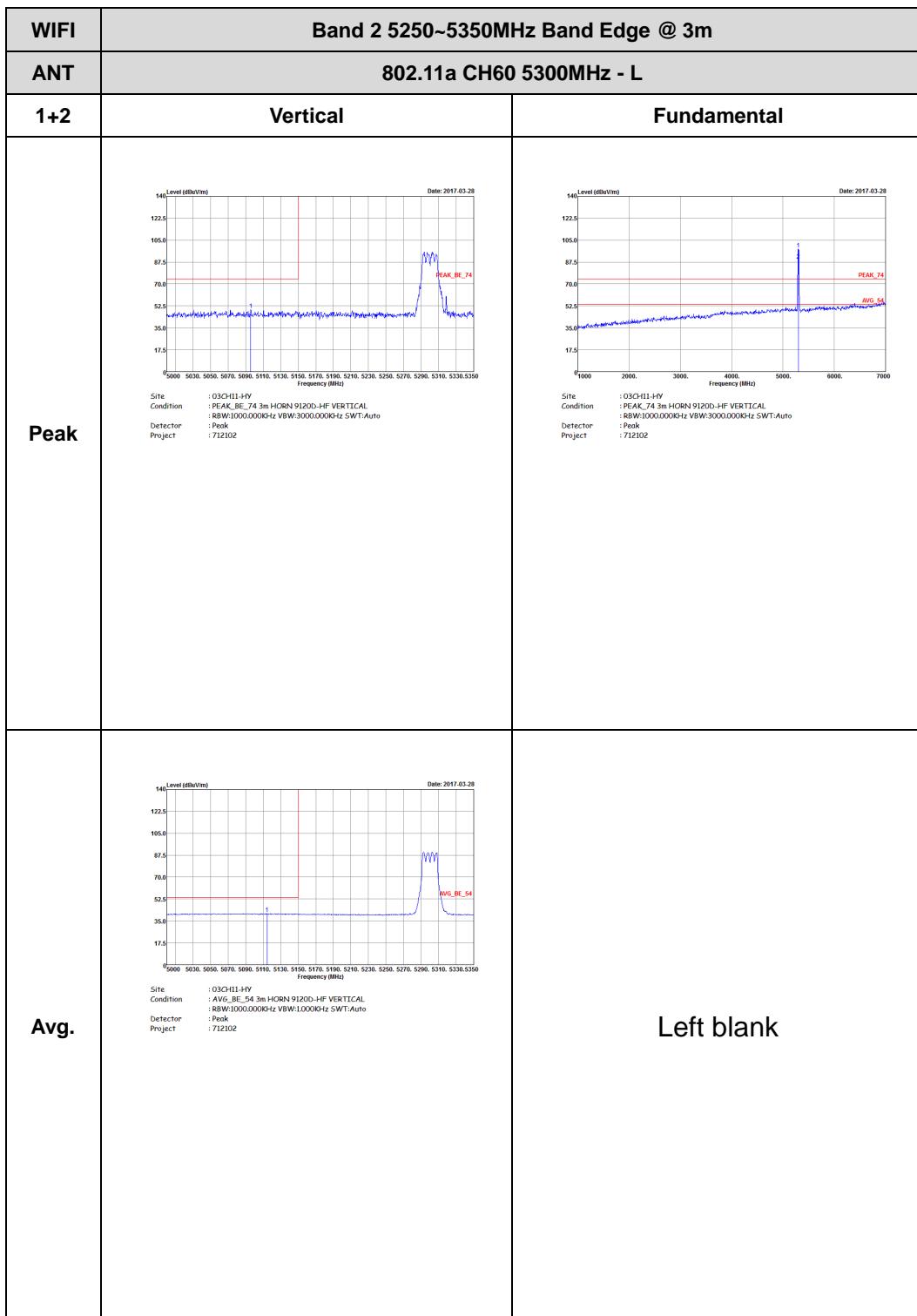
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak :712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak :712102</p>	Left blank



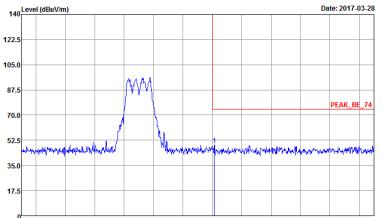
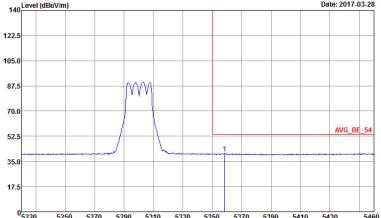
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:1000Hz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

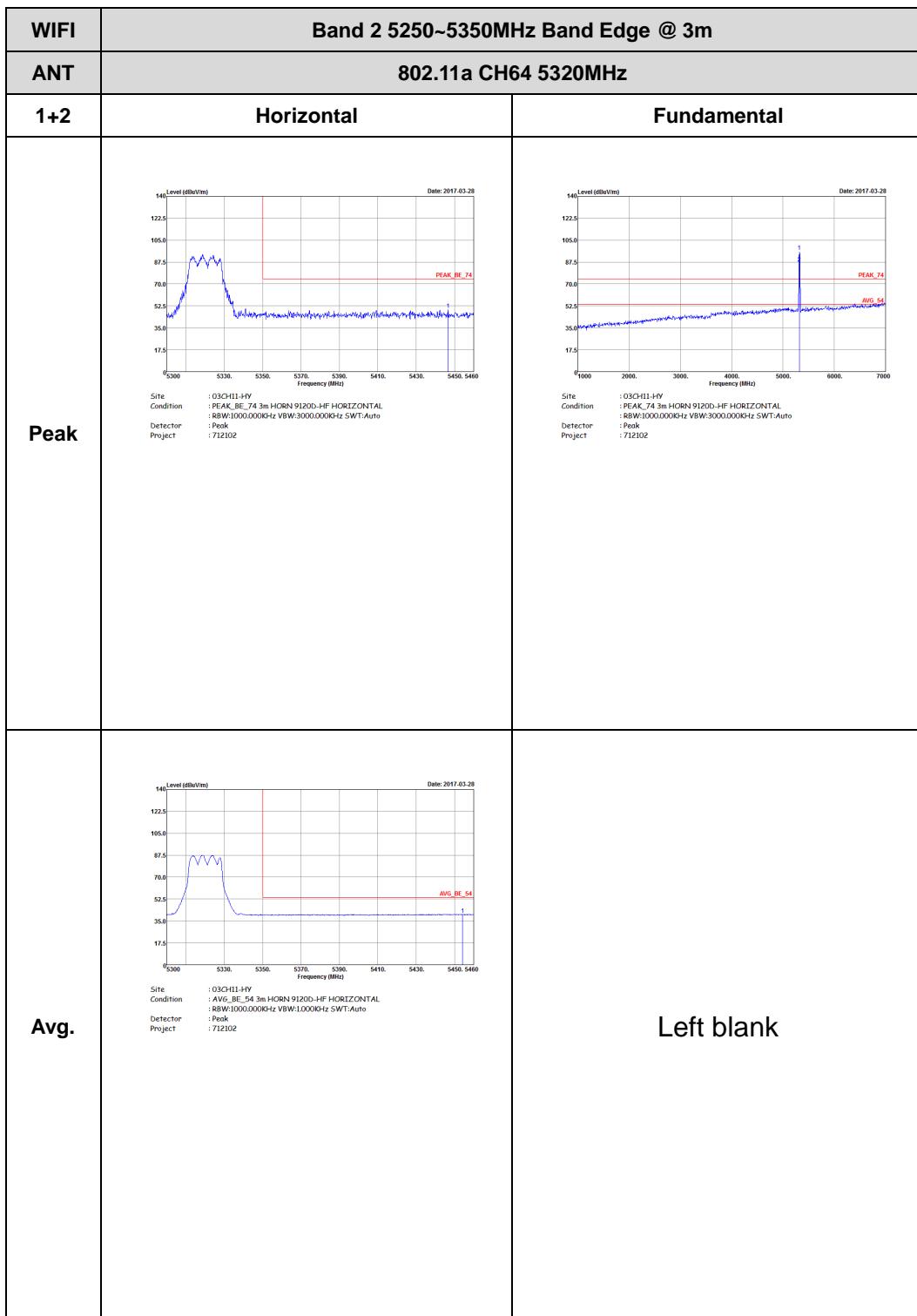


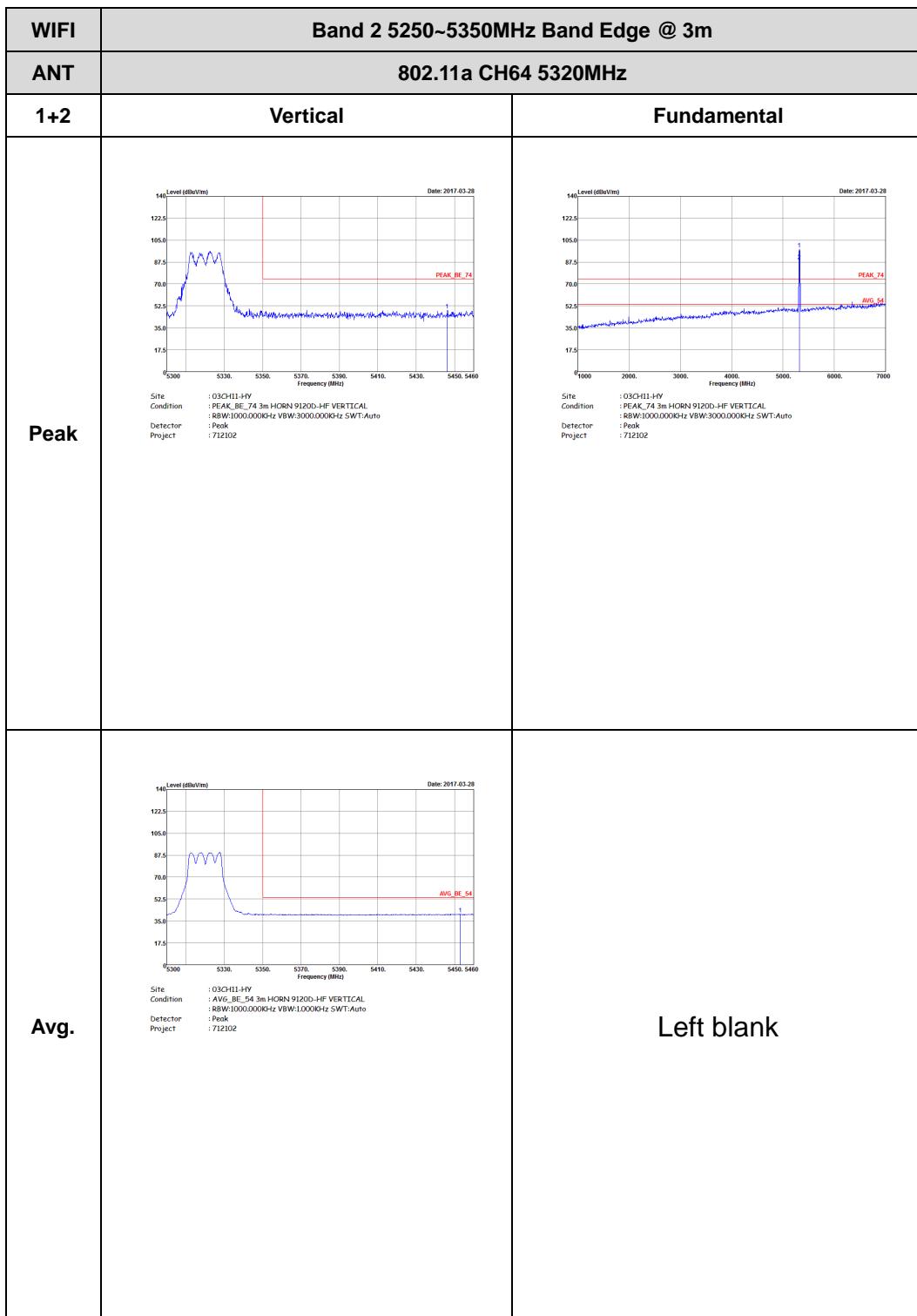
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank





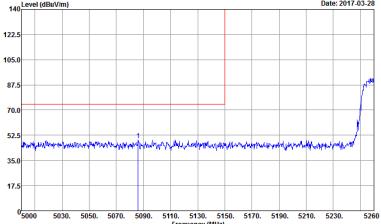
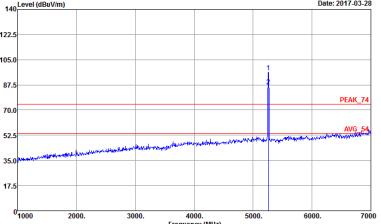
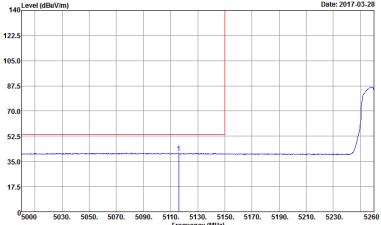
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) Date: 2017-03-28 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) Date: 2017-03-28 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



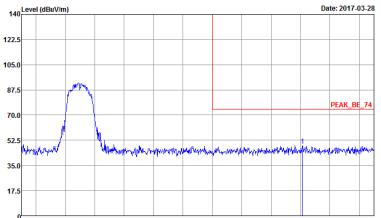


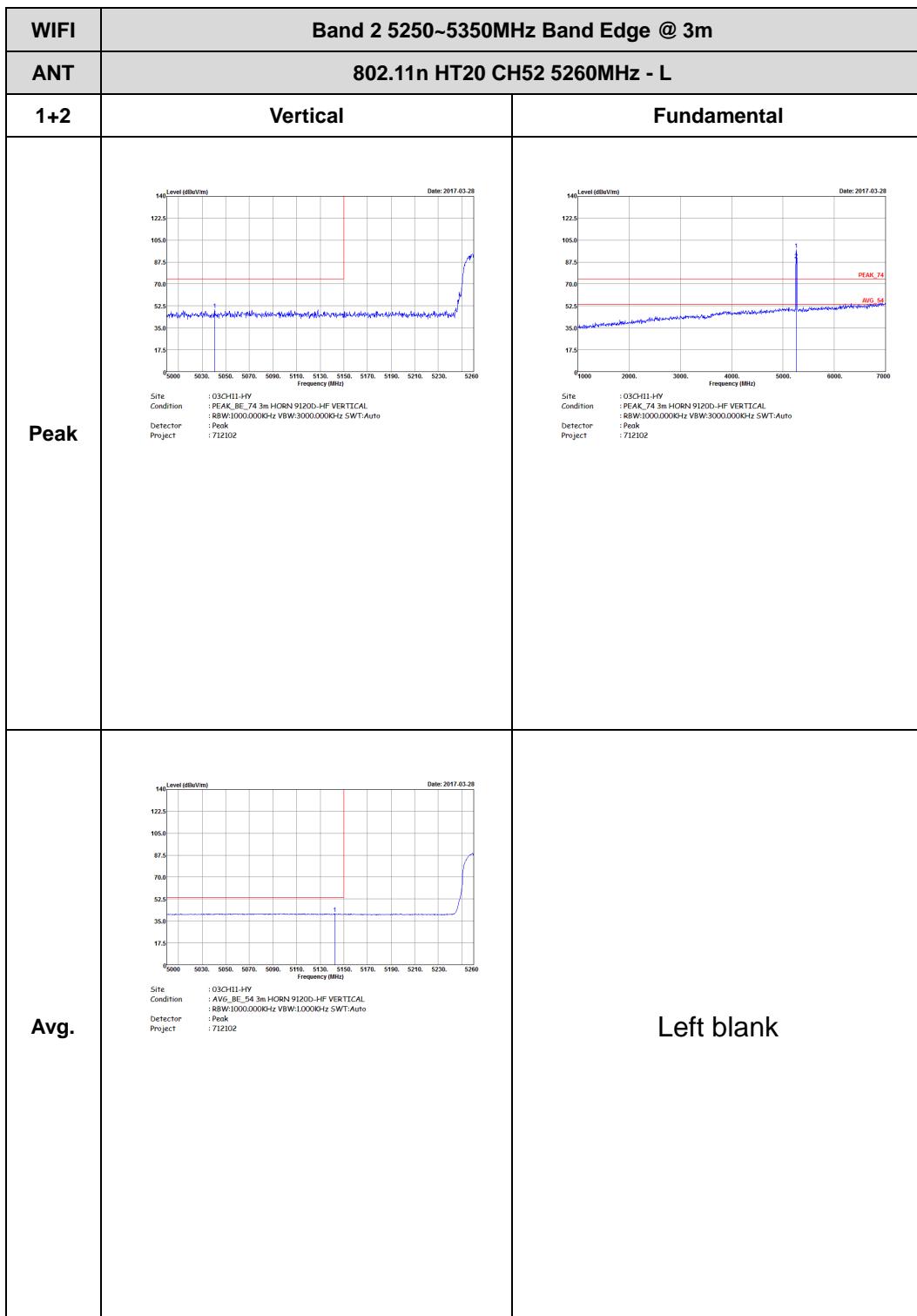


Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

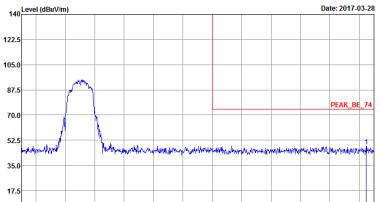
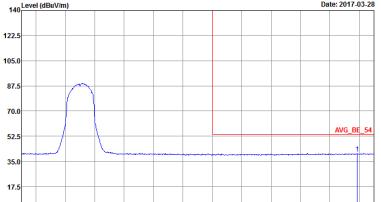
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : 712102	Left blank

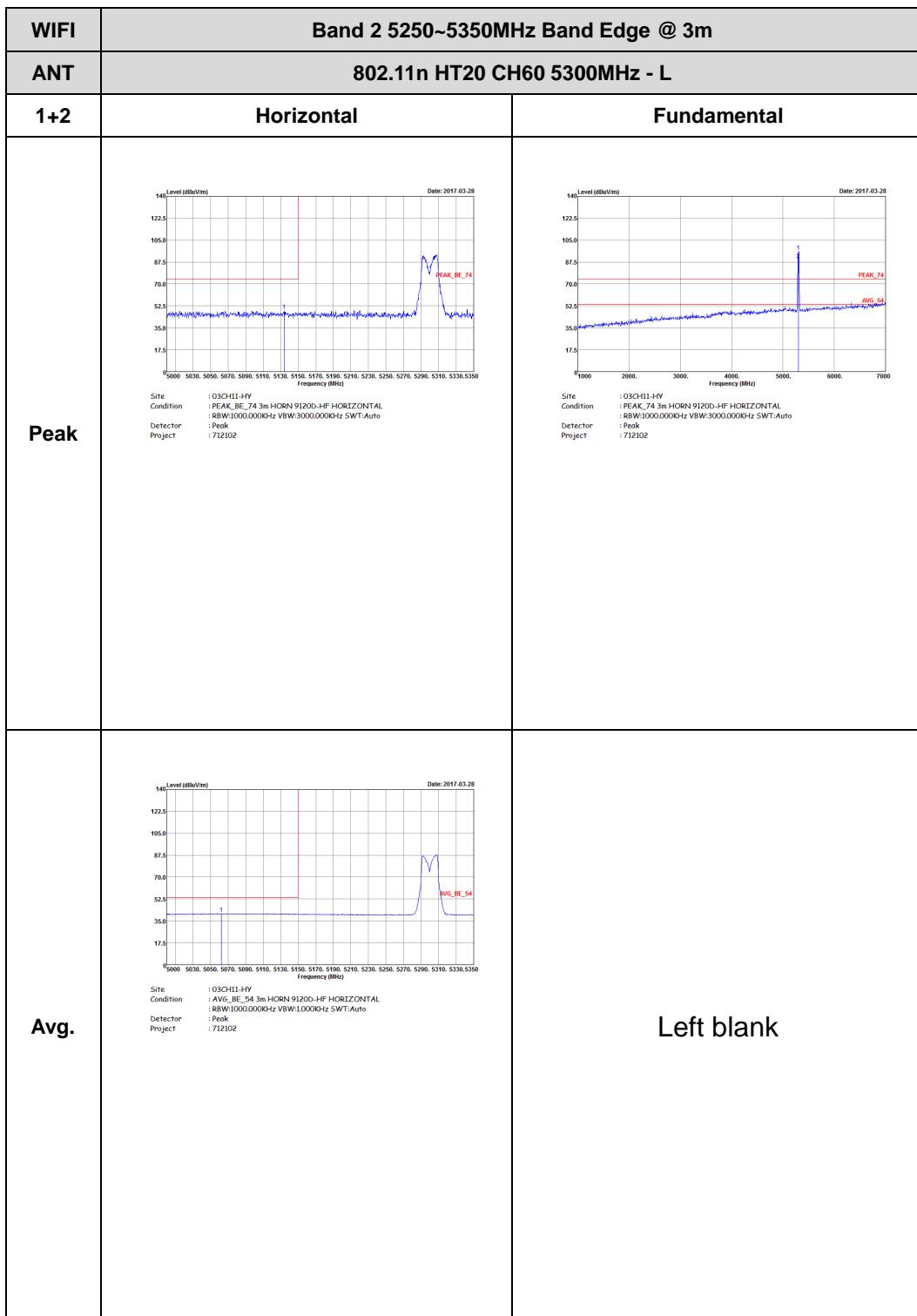


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) Date: 2017-03-28 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) Date: 2017-03-28 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

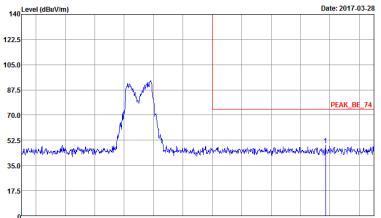
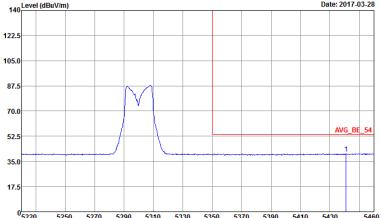


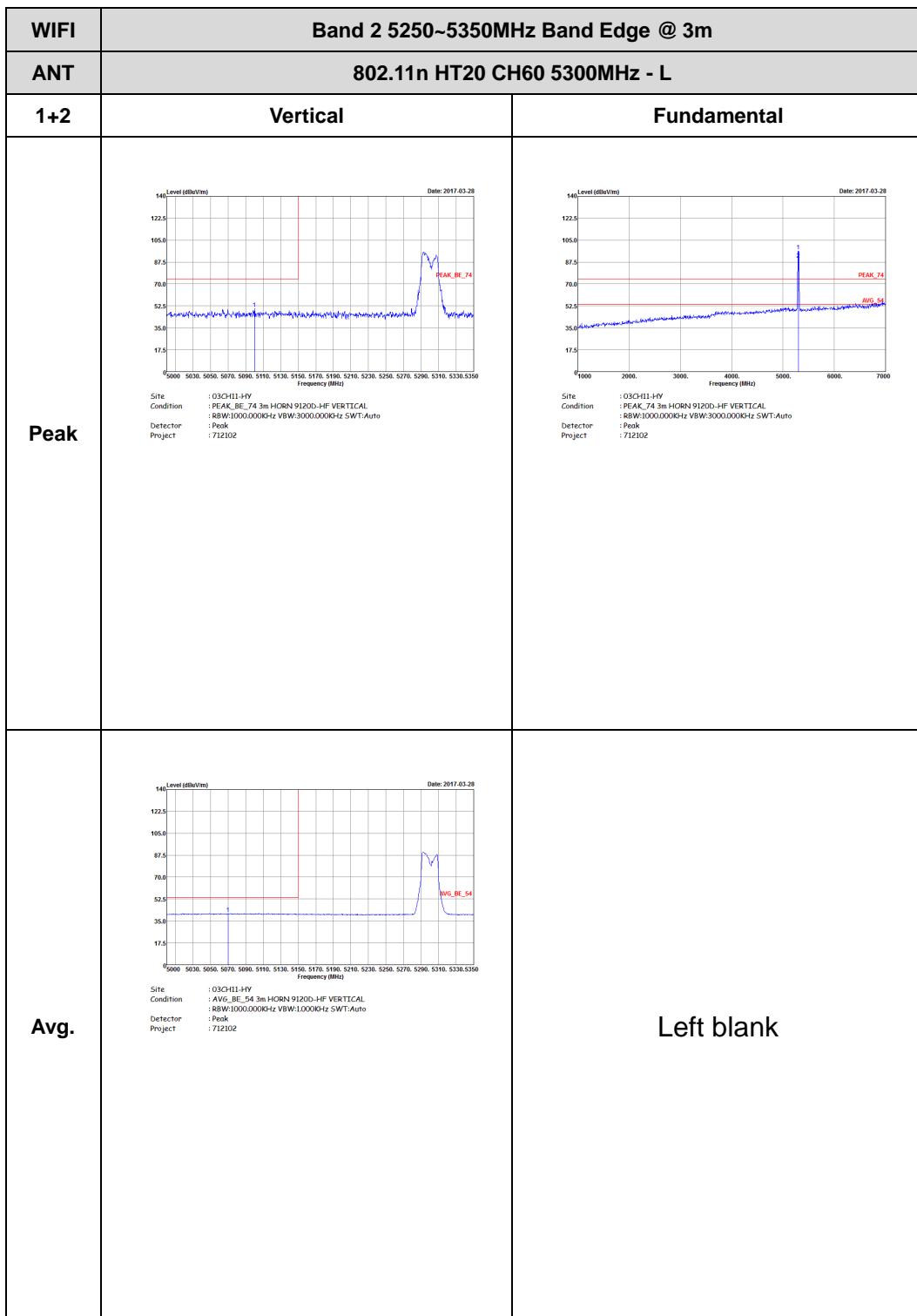


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

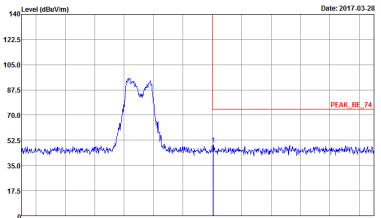
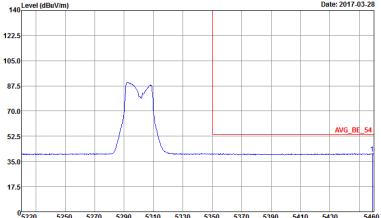




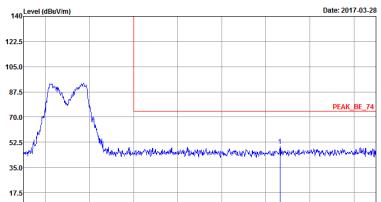
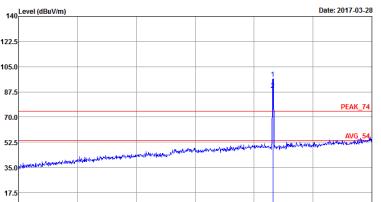
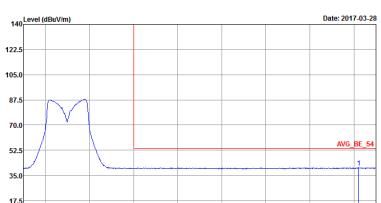
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a sharp peak around 5290 MHz reaching approximately 85 dBc/1m. A red step function indicates the band edge. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5220 to 5460. The plot shows a broad peak around 5290 MHz reaching approximately 80 dBc/1m. A red step function indicates the band edge. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

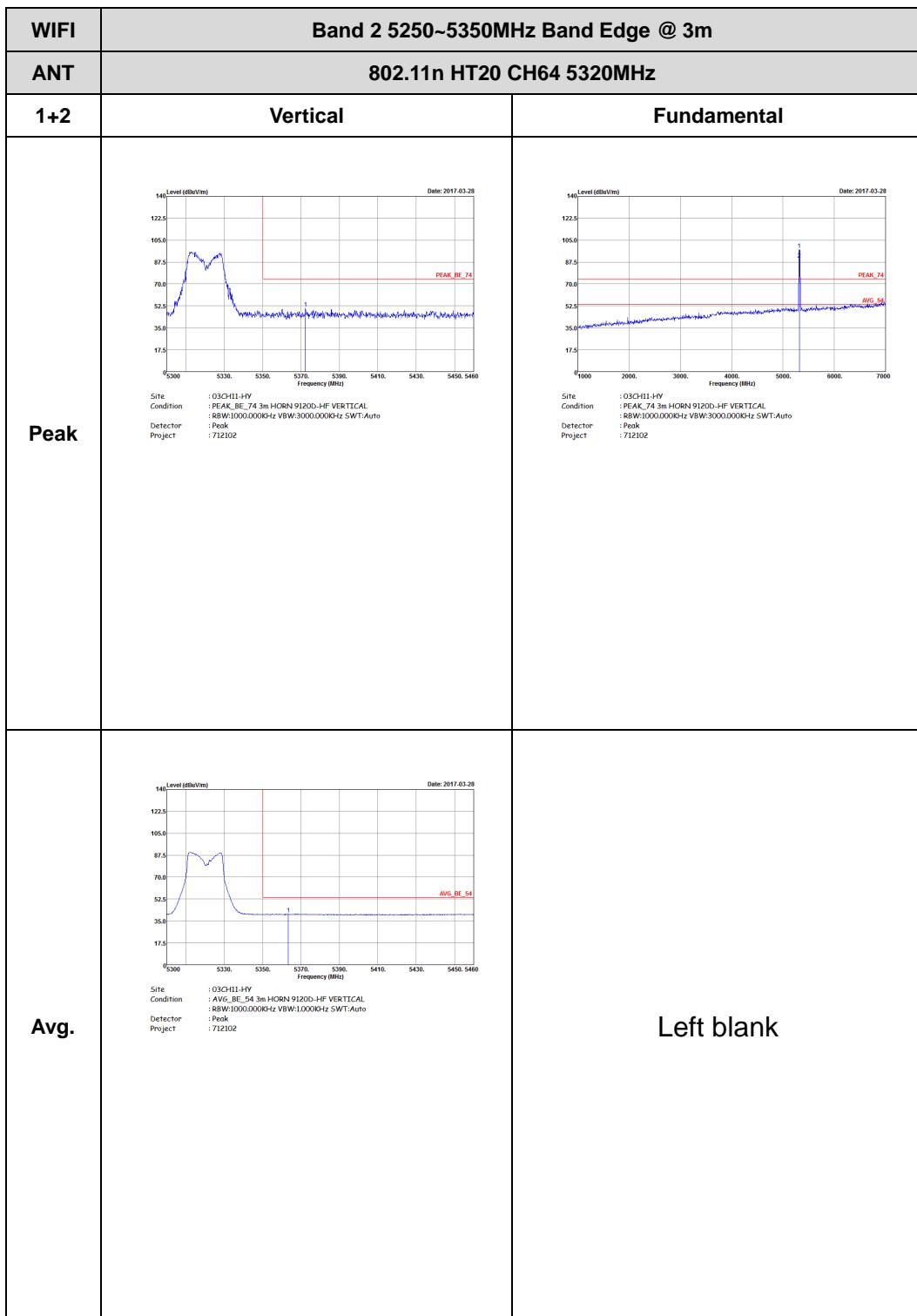




WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank

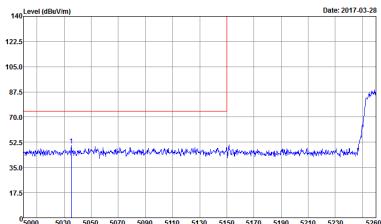
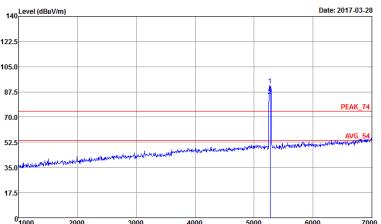
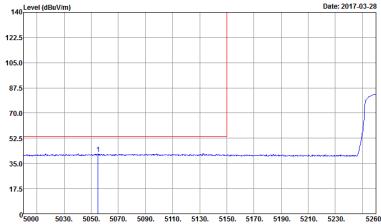


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:1.000Hz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

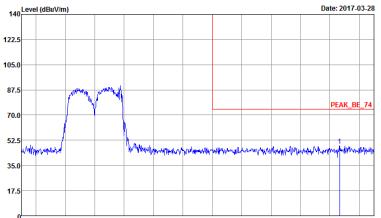


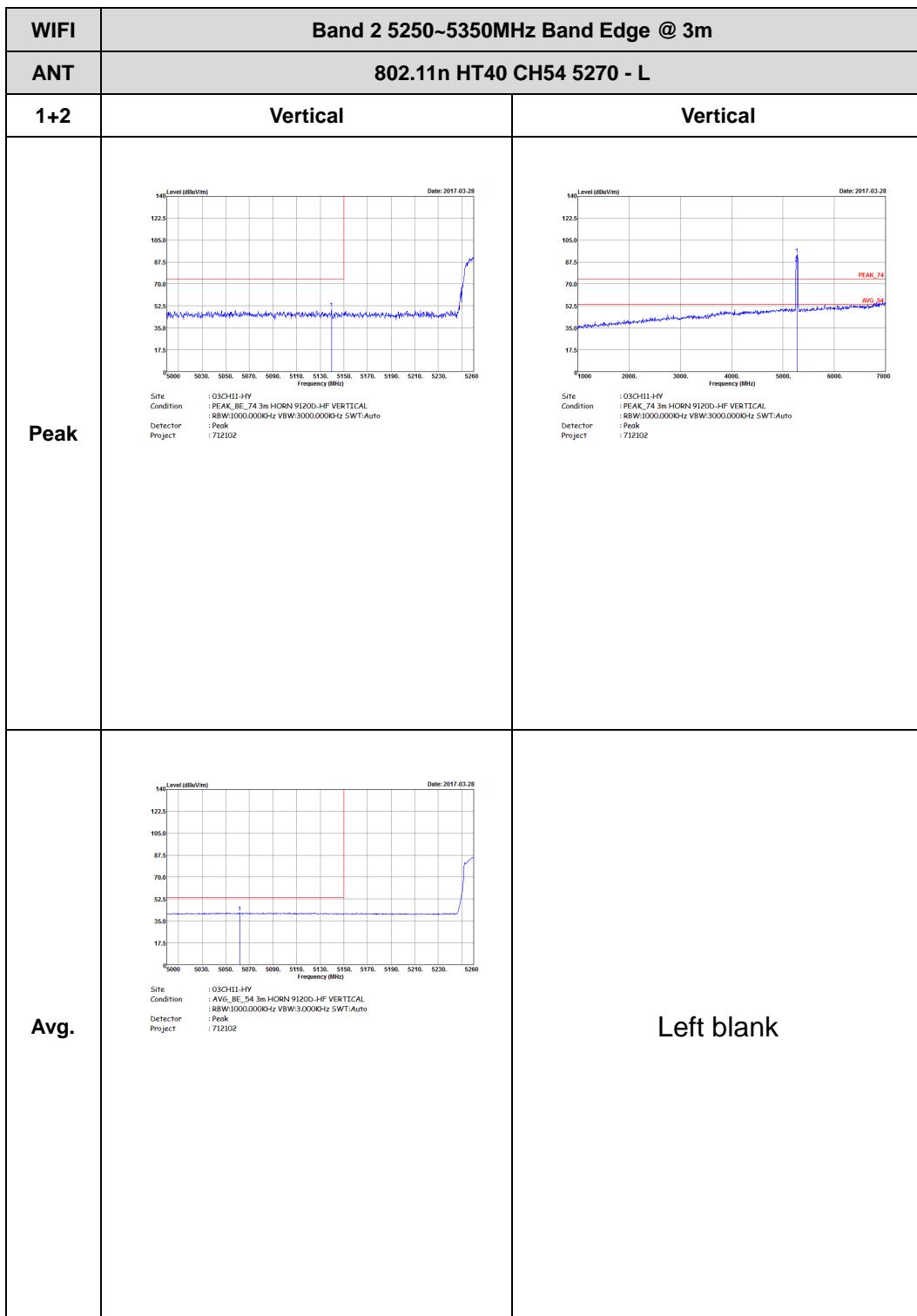


Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

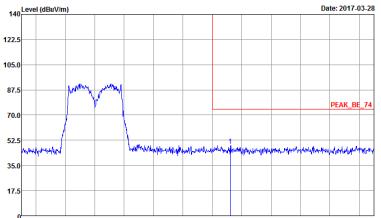
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m) Date: 2017-03-28</p> <p>5000 5030 5060 5070 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	 <p>Level (dBmV/m) Date: 2017-03-28</p> <p>1000 2000 3000 4000 5000 6000 7000</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>
Avg.	 <p>Level (dBmV/m) Date: 2017-03-28</p> <p>5000 5030 5060 5070 5090 5110 5130 5150 5170 5190 5210 5230 5260</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	Left blank

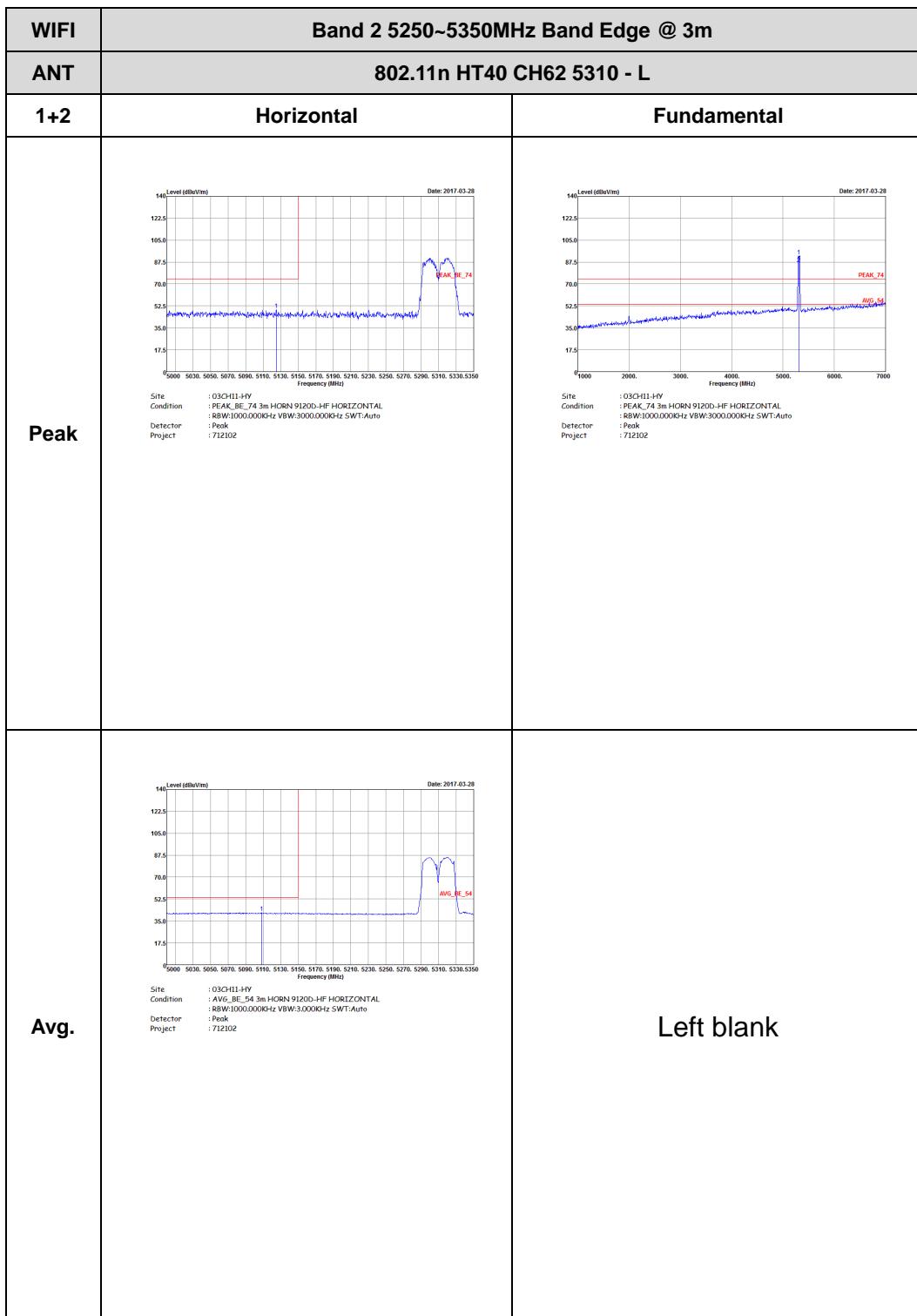


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

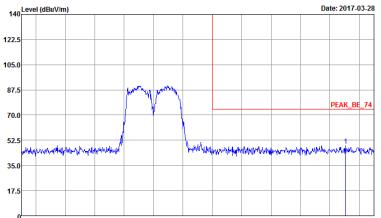
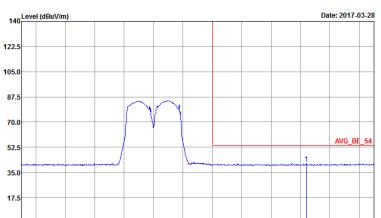




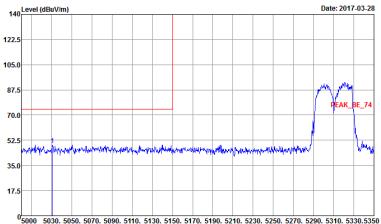
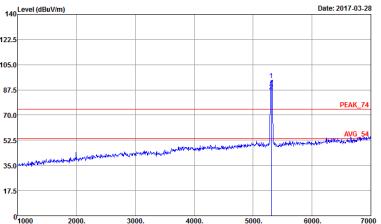
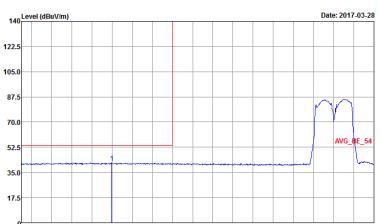
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak Date : 2017-03-28</p>	Left blank



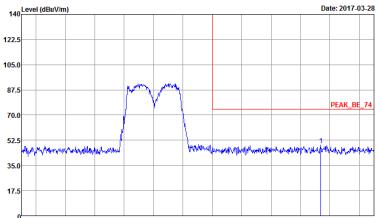
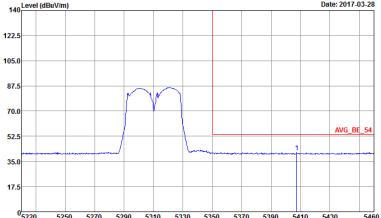


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3.000Hz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

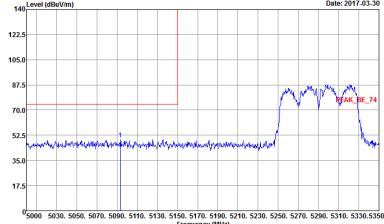
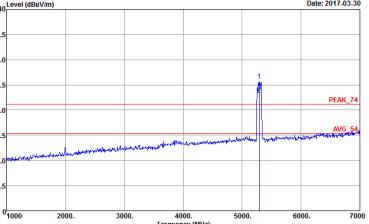
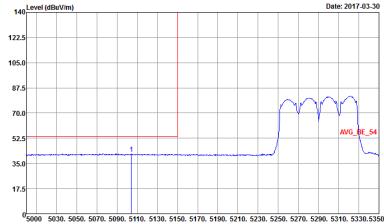


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank



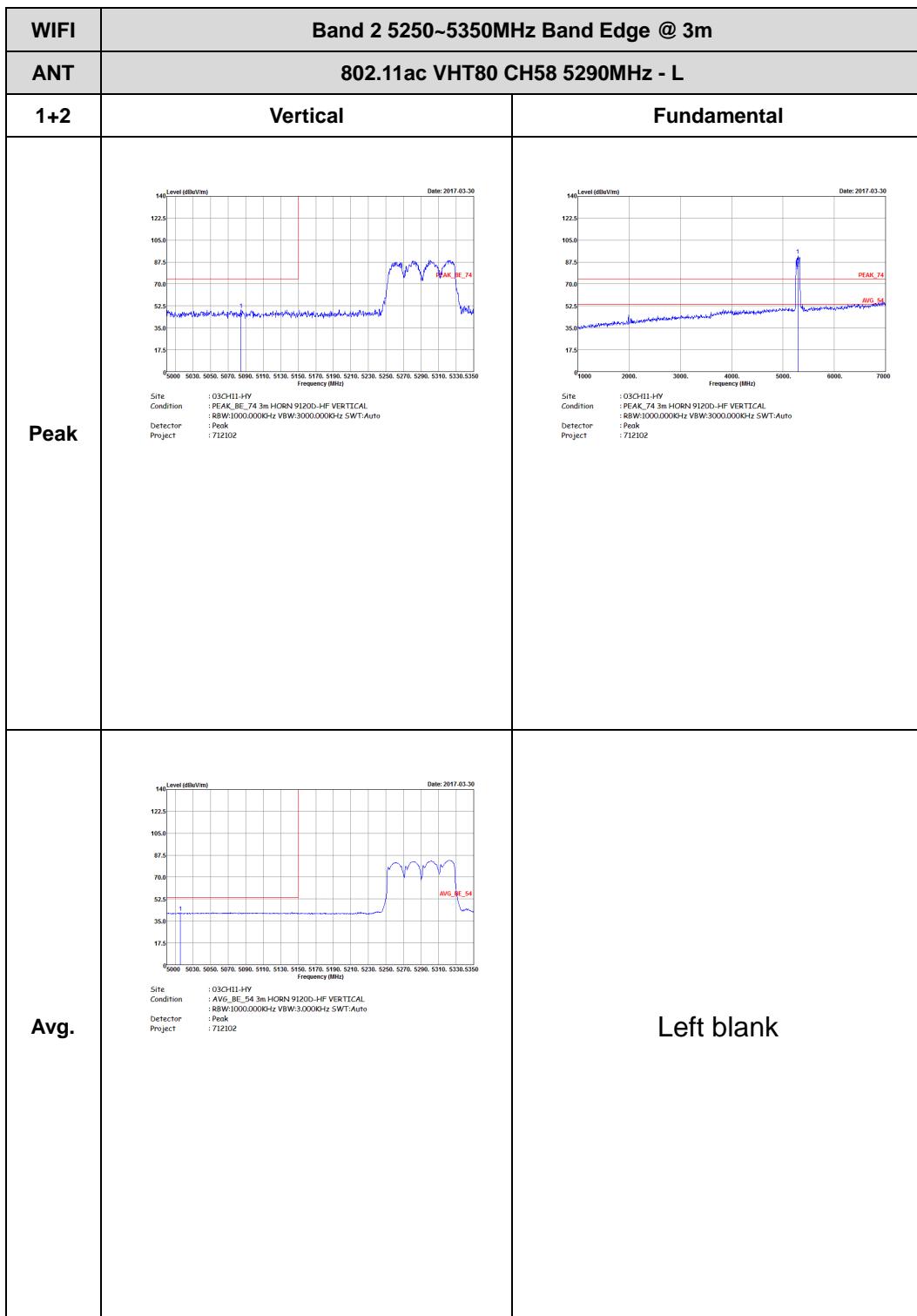
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

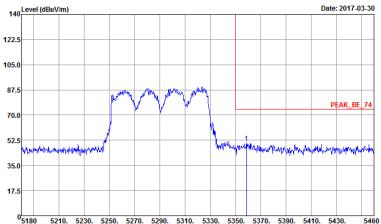
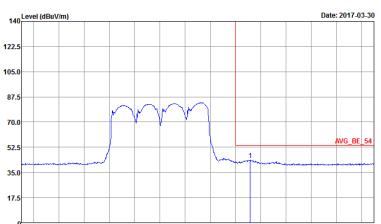
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBmV/m) Date: 2017-03-30</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	 <p>Level (dBmV/m) Date: 2017-03-30</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak VBW:3000.000KHz SWT:Auto Project : 712102</p>
Avg.	 <p>Level (dBmV/m) Date: 2017-03-30</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 712102</p>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	<p>Level (dBm/Vm)</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p> <p>Frequency (MHz)</p>	Left blank
Avg.	<p>Level (dBm/Vm)</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102</p> <p>Frequency (MHz)</p>	Left blank



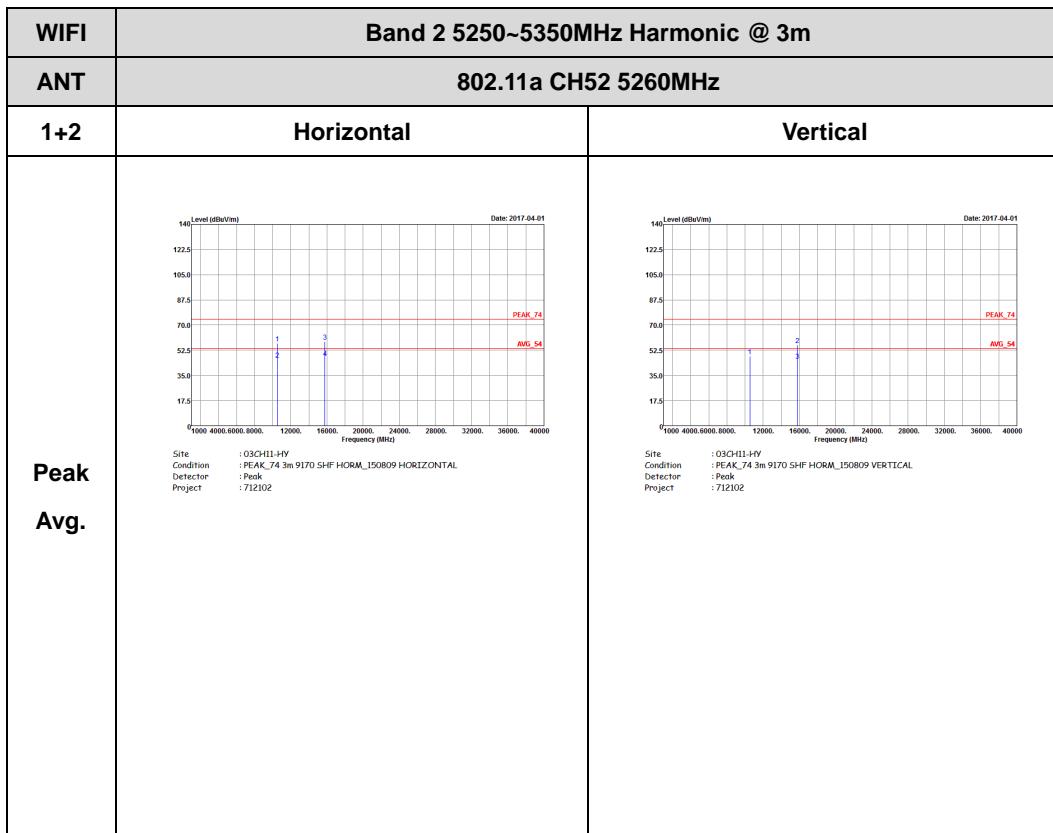


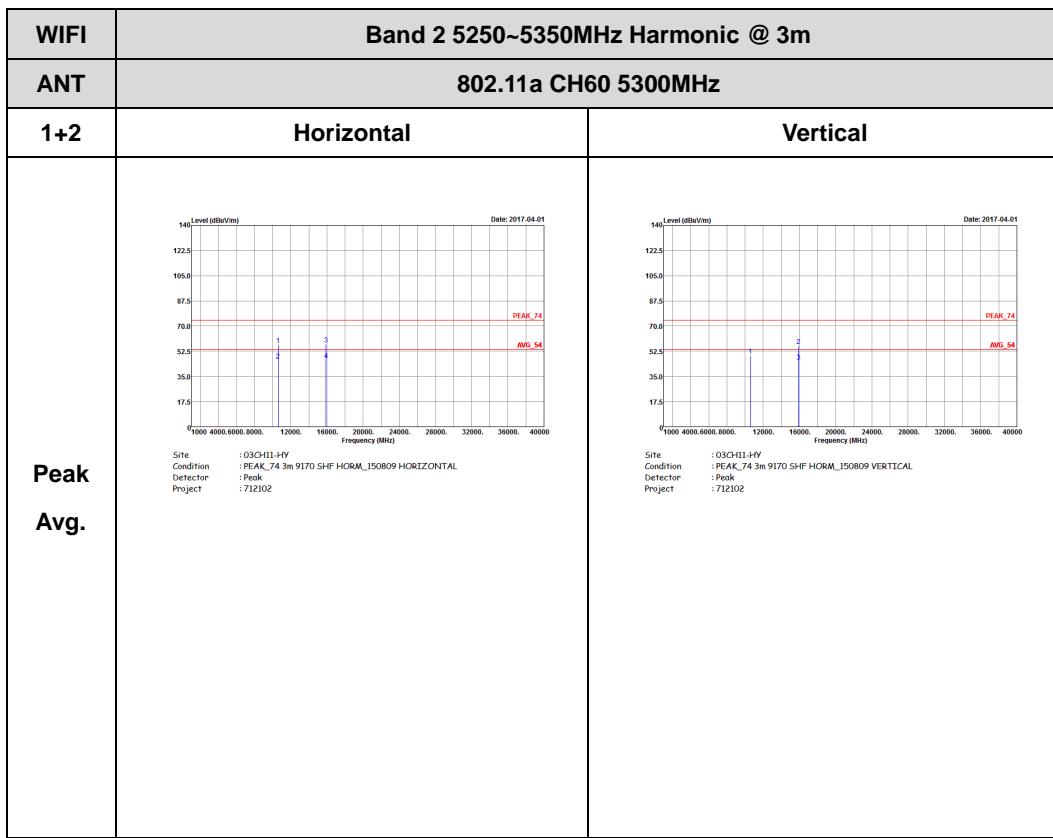
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A sharp peak is labeled PEAK_BE_74 at approximately 5290 MHz.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5180 to 5460. A broad average envelope is labeled AVG_BE_54.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank

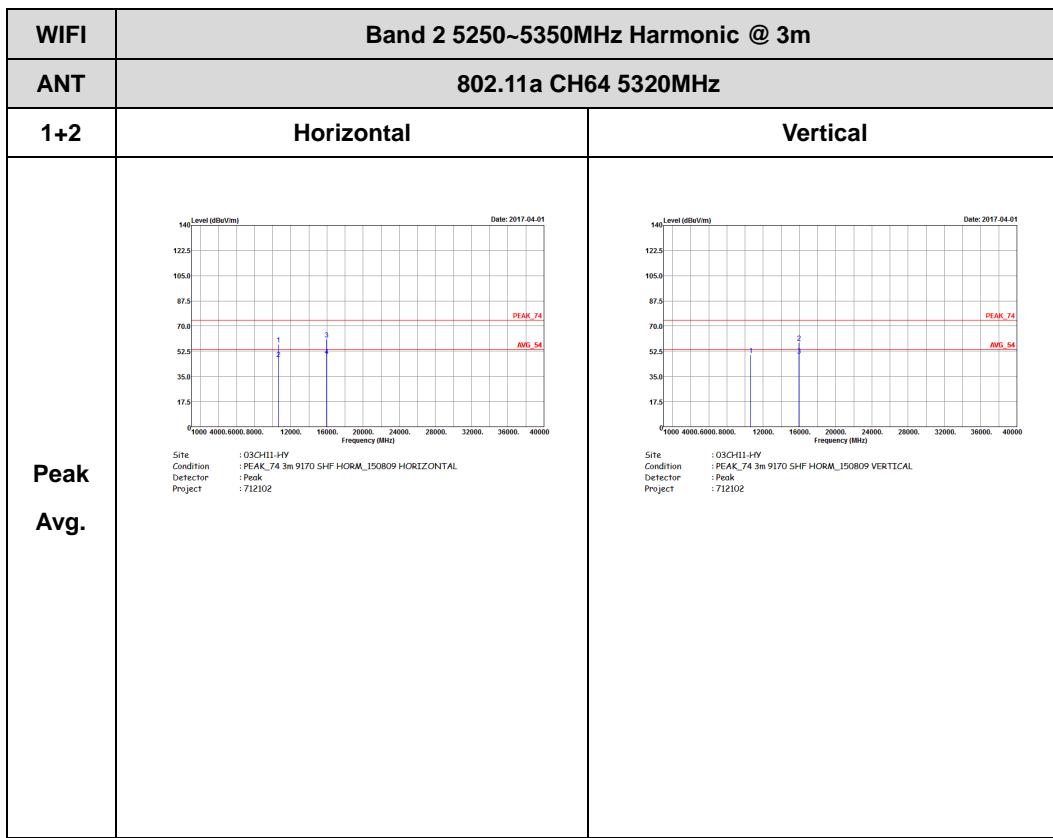


Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

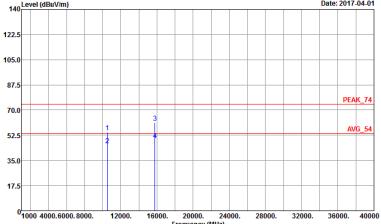
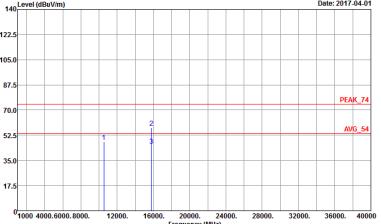


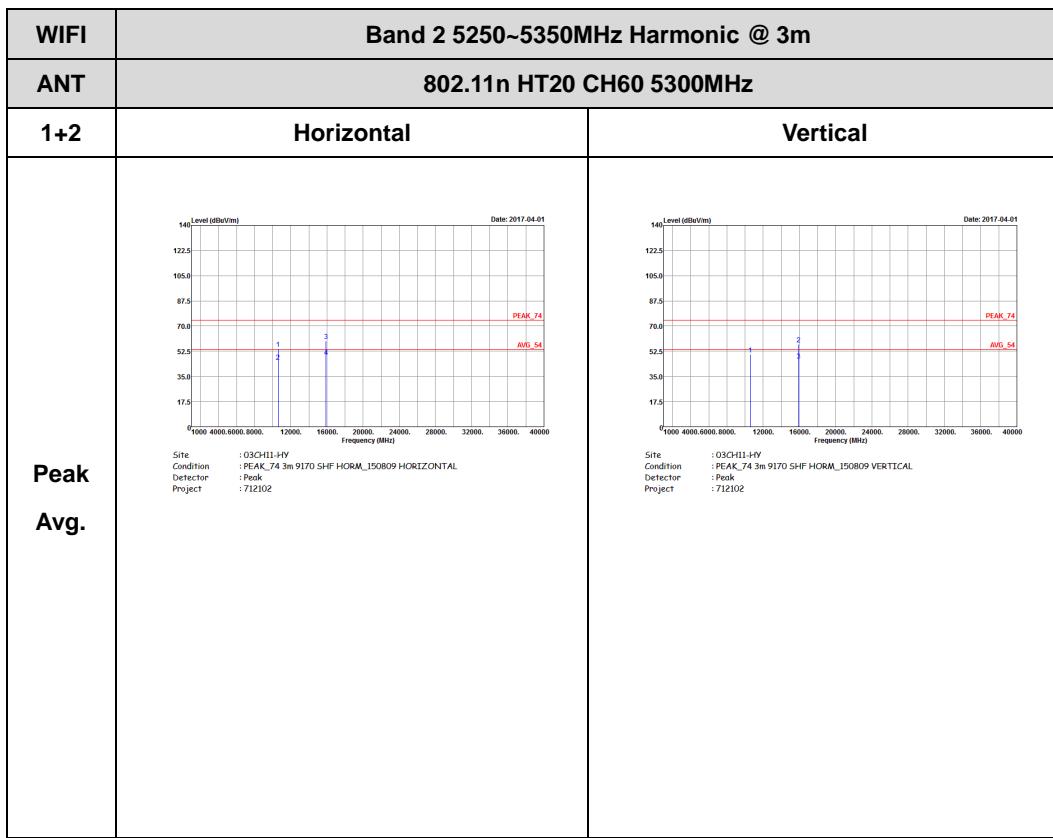


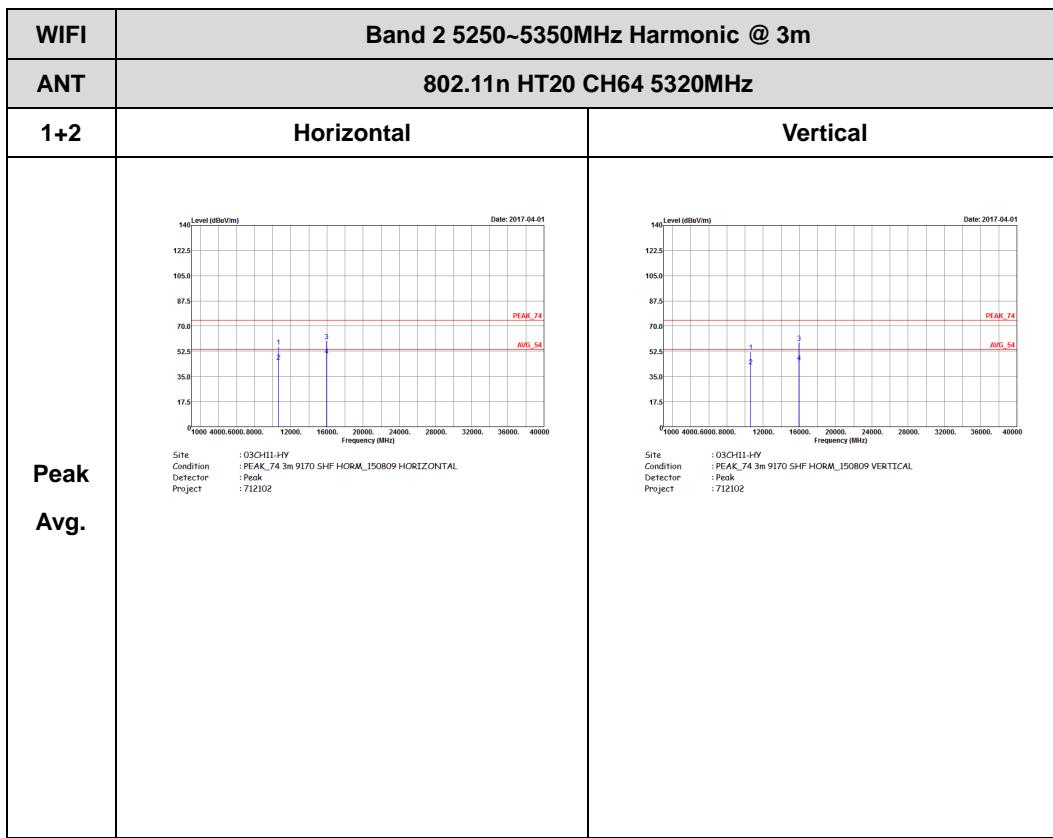




Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

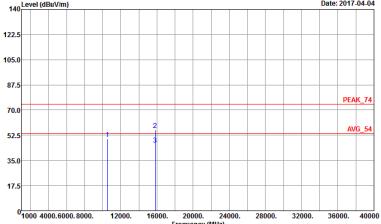
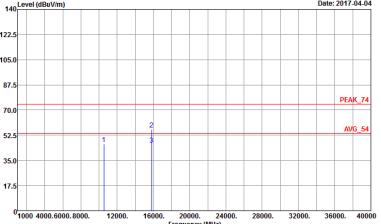
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) for Horizontal polarization. The plot shows two sharp peaks at approximately 1200 MHz and 1600 MHz. The y-axis ranges from 17.5 to 140 dBuV/m. The x-axis ranges from 1000 to 40000 MHz. A red horizontal line indicates the peak level at 74 dBuV/m, labeled 'PEAK_74'. A blue horizontal line indicates the average level at 54 dBuV/m, labeled 'AVG_54'. The plot is dated 2017-04-01.</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 712102</p>	 <p>Level (dBuV/m) vs Frequency (MHz) for Vertical polarization. The plot shows two sharp peaks at approximately 1200 MHz and 1600 MHz. The y-axis ranges from 17.5 to 140 dBuV/m. The x-axis ranges from 1000 to 40000 MHz. A red horizontal line indicates the peak level at 74 dBuV/m, labeled 'PEAK_74'. A blue horizontal line indicates the average level at 54 dBuV/m, labeled 'AVG_54'. The plot is dated 2017-04-01.</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 712102</p>

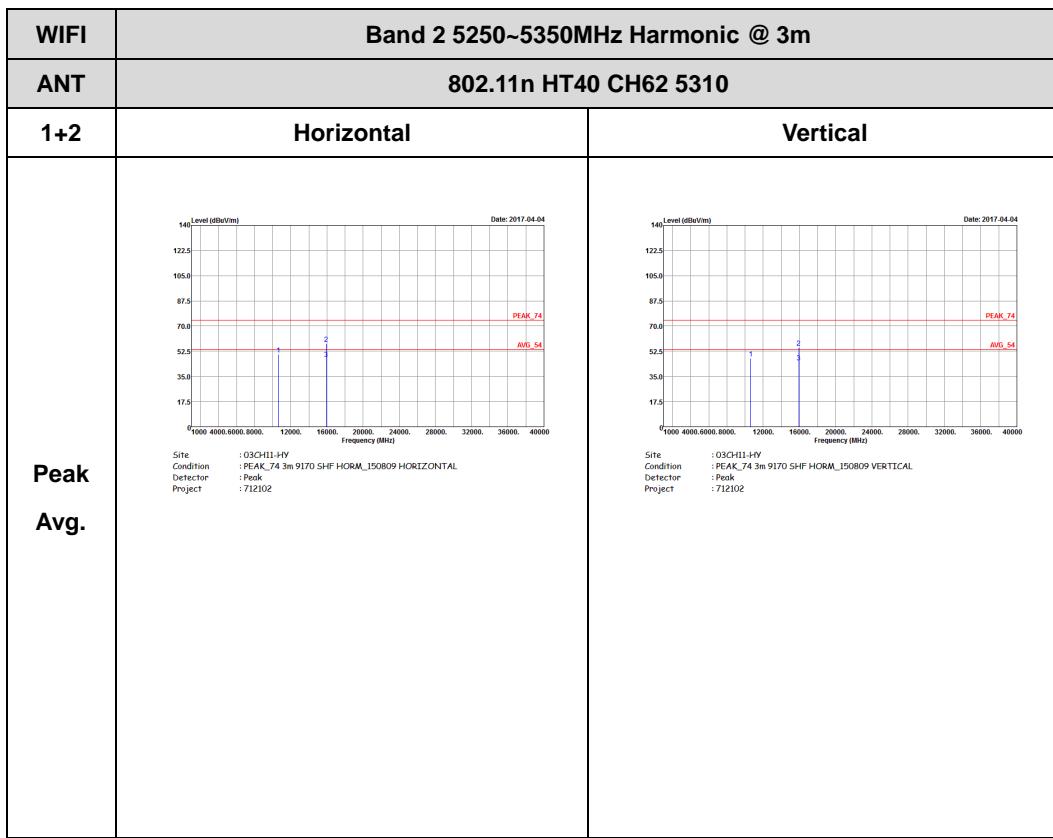






Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

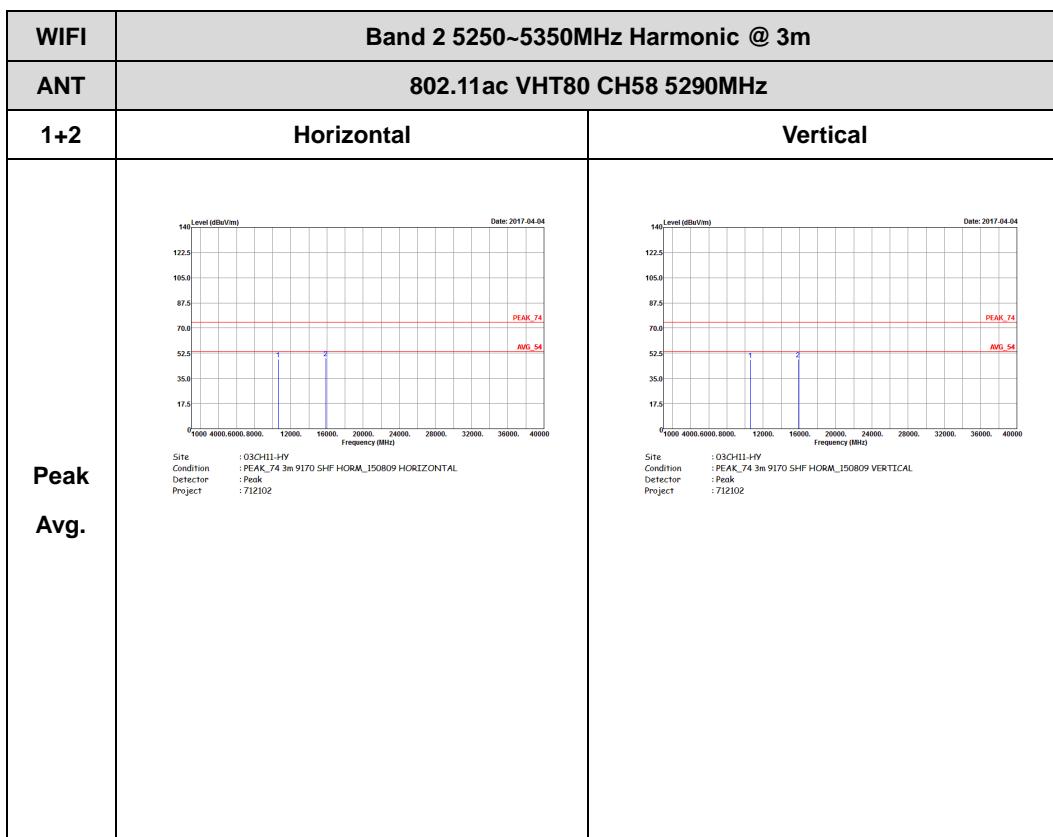
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 712102	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 712102
Avg.		





Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

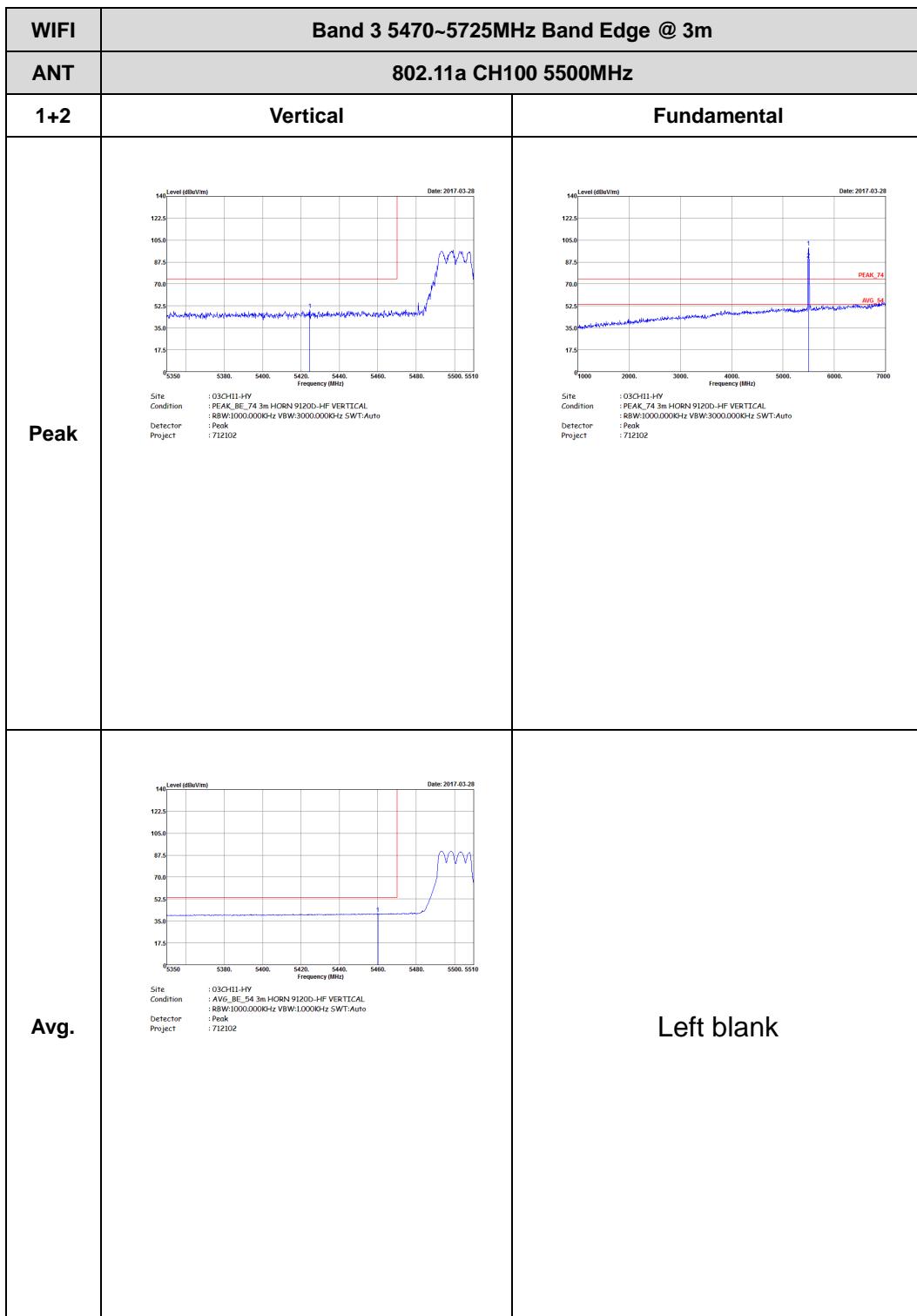


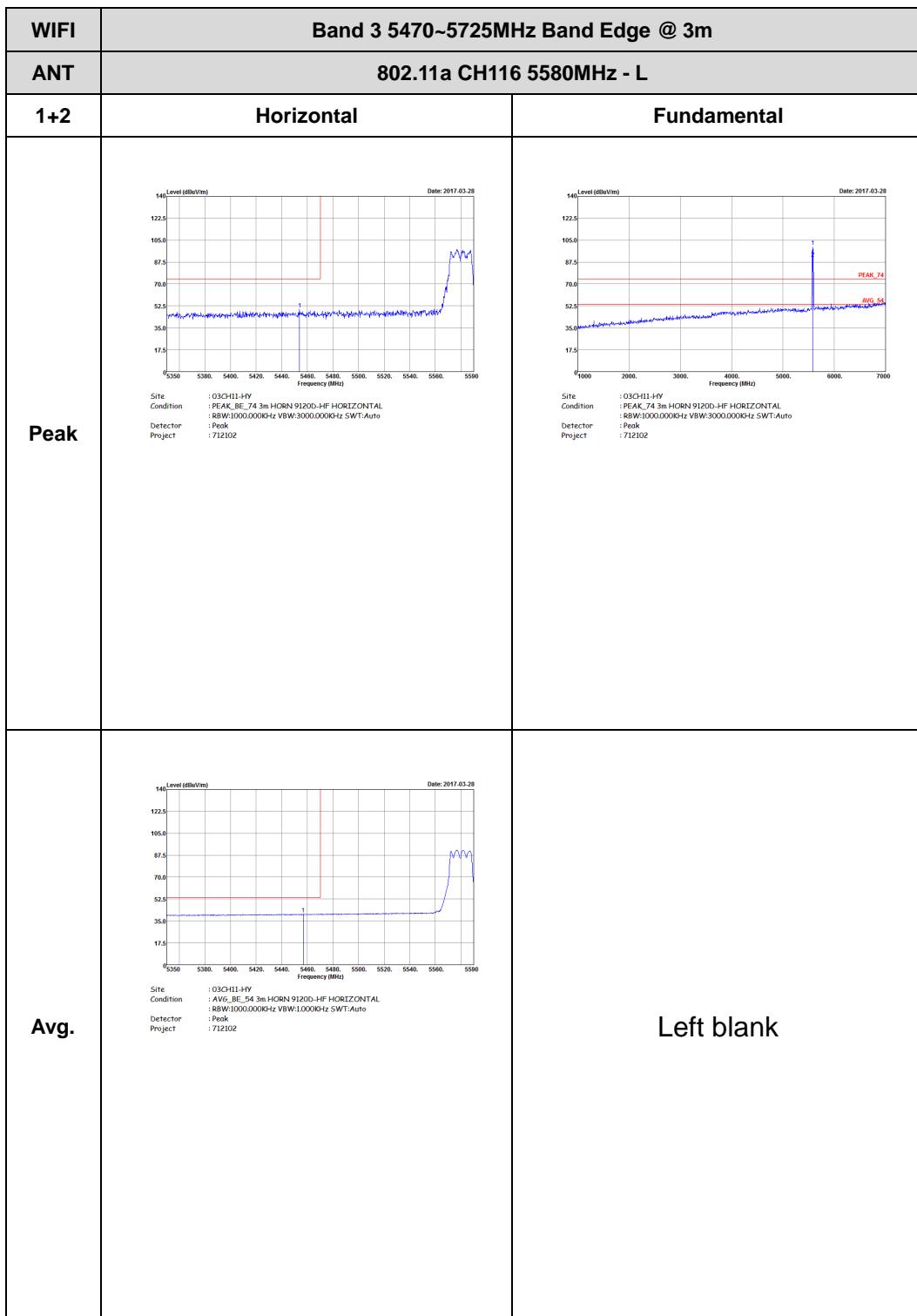


Band 3 - 5470~5725MHz

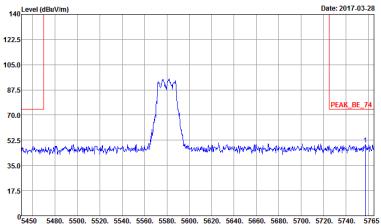
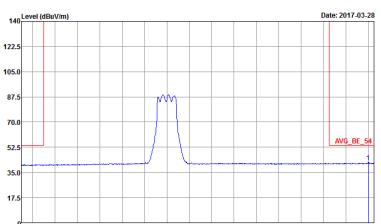
WIFI 802.11a (Band Edge @ 3m)

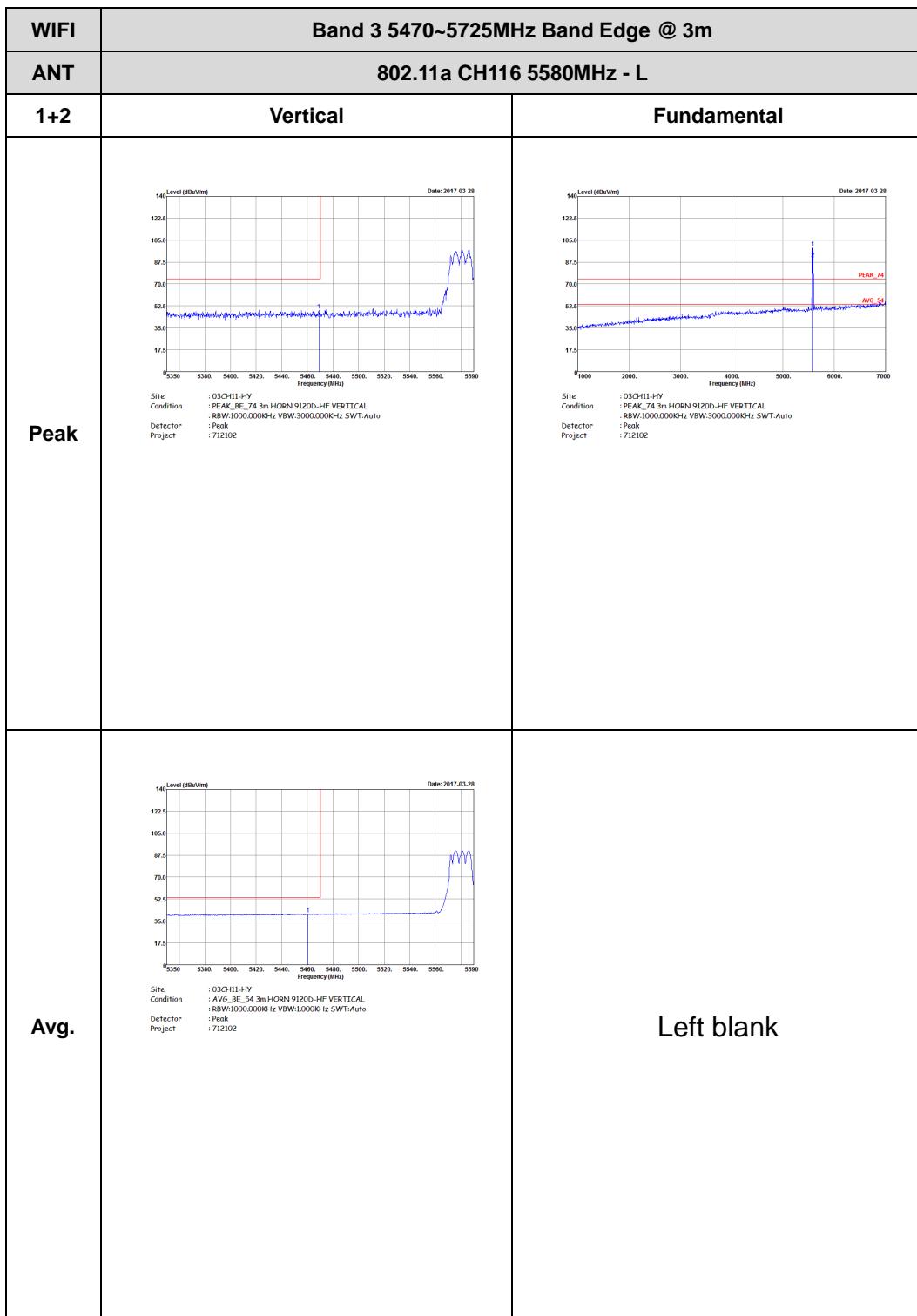
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1000Hz SWT:Auto Detector : Peak Project : 712102	Left blank



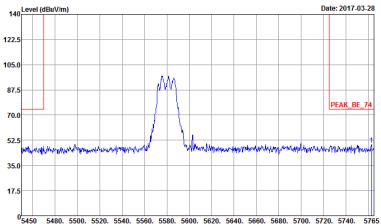
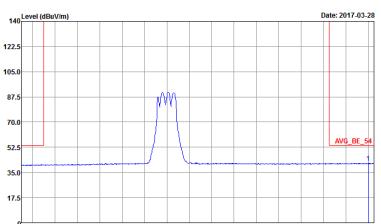


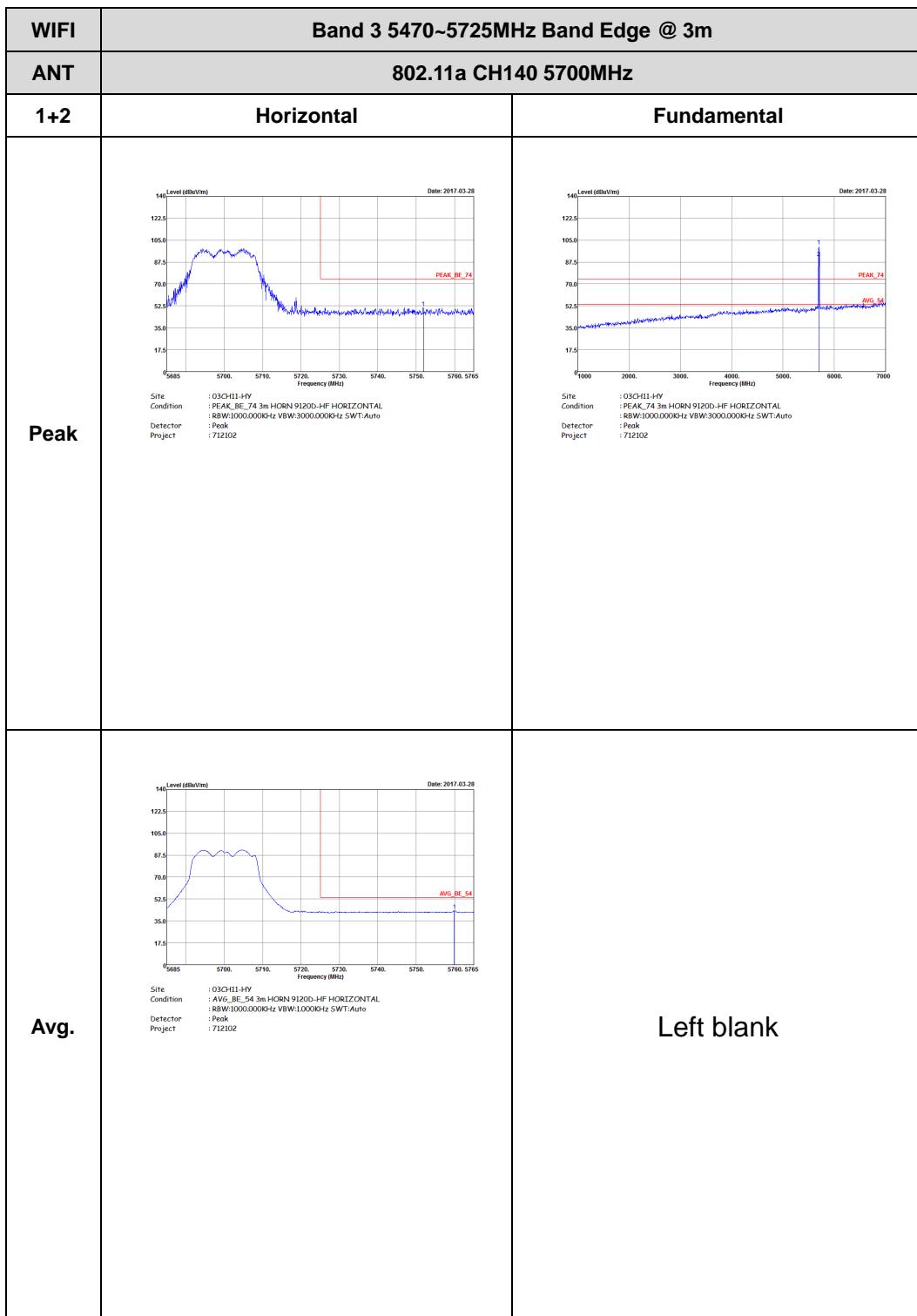


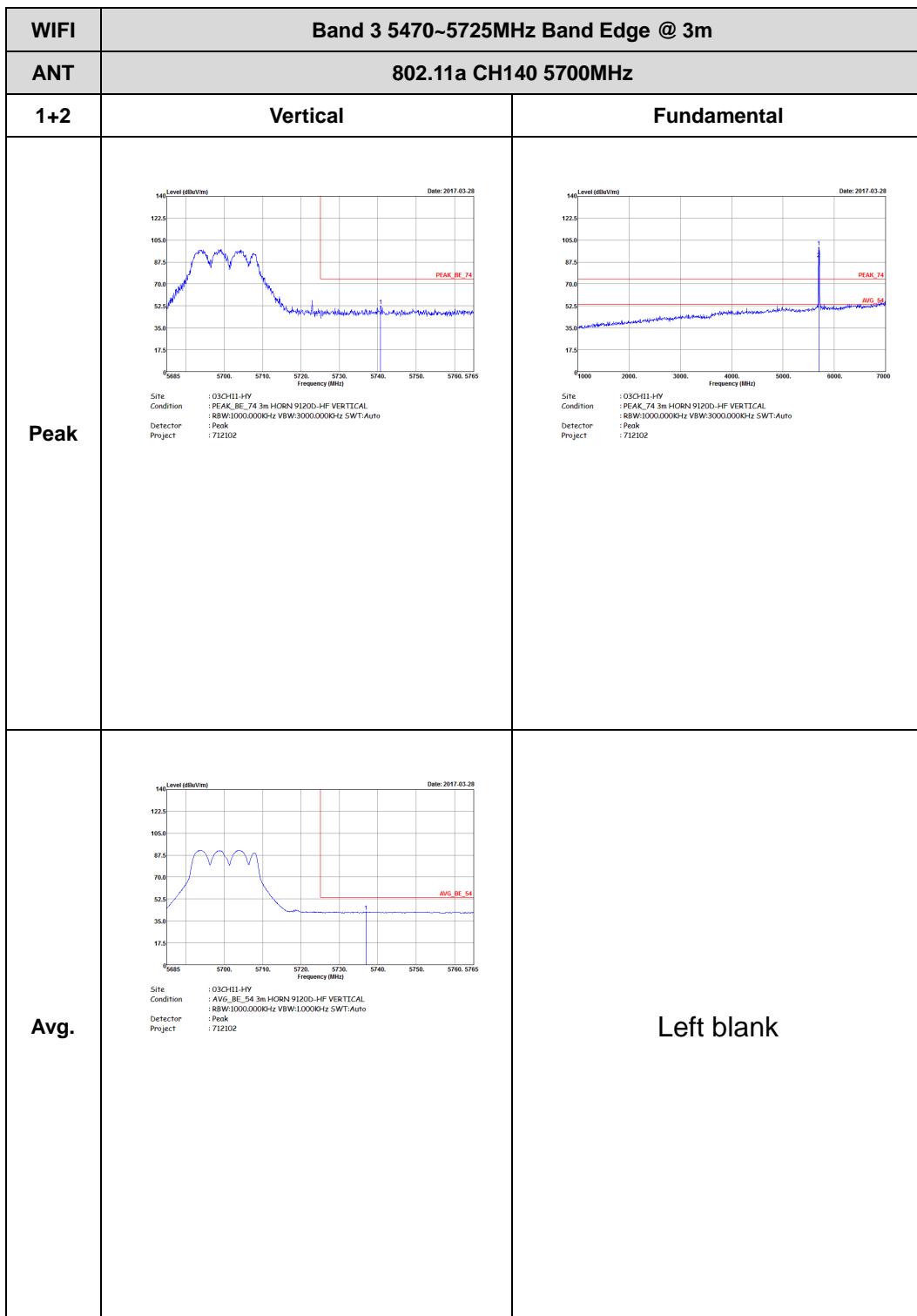
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/Vm) vs Frequency (MHz) plot. The plot shows a sharp peak at approximately 5580 MHz labeled 'PEAK_BE_74'. The x-axis ranges from 5450 to 5765 MHz, and the y-axis ranges from 17.5 to 140 dBc/Vm. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/Vm) vs Frequency (MHz) plot. The plot shows a broad peak at approximately 5580 MHz labeled 'AVG_BE_54'. The x-axis ranges from 5450 to 5765 MHz, and the y-axis ranges from 17.5 to 140 dBc/Vm. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank





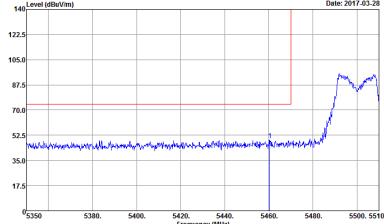
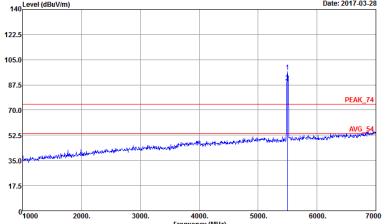
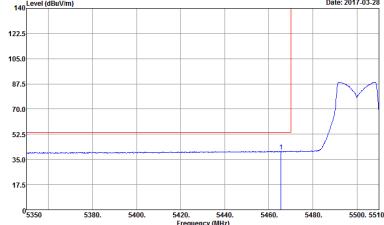
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak at 5580 MHz labeled 'PEAK_BE_74'. The baseline is around 52.5 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak at 5580 MHz labeled 'AVG_BE_54'. The baseline is around 52.5 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:10000KHz SWT:Auto Project : Peak : 712102</p>	Left blank

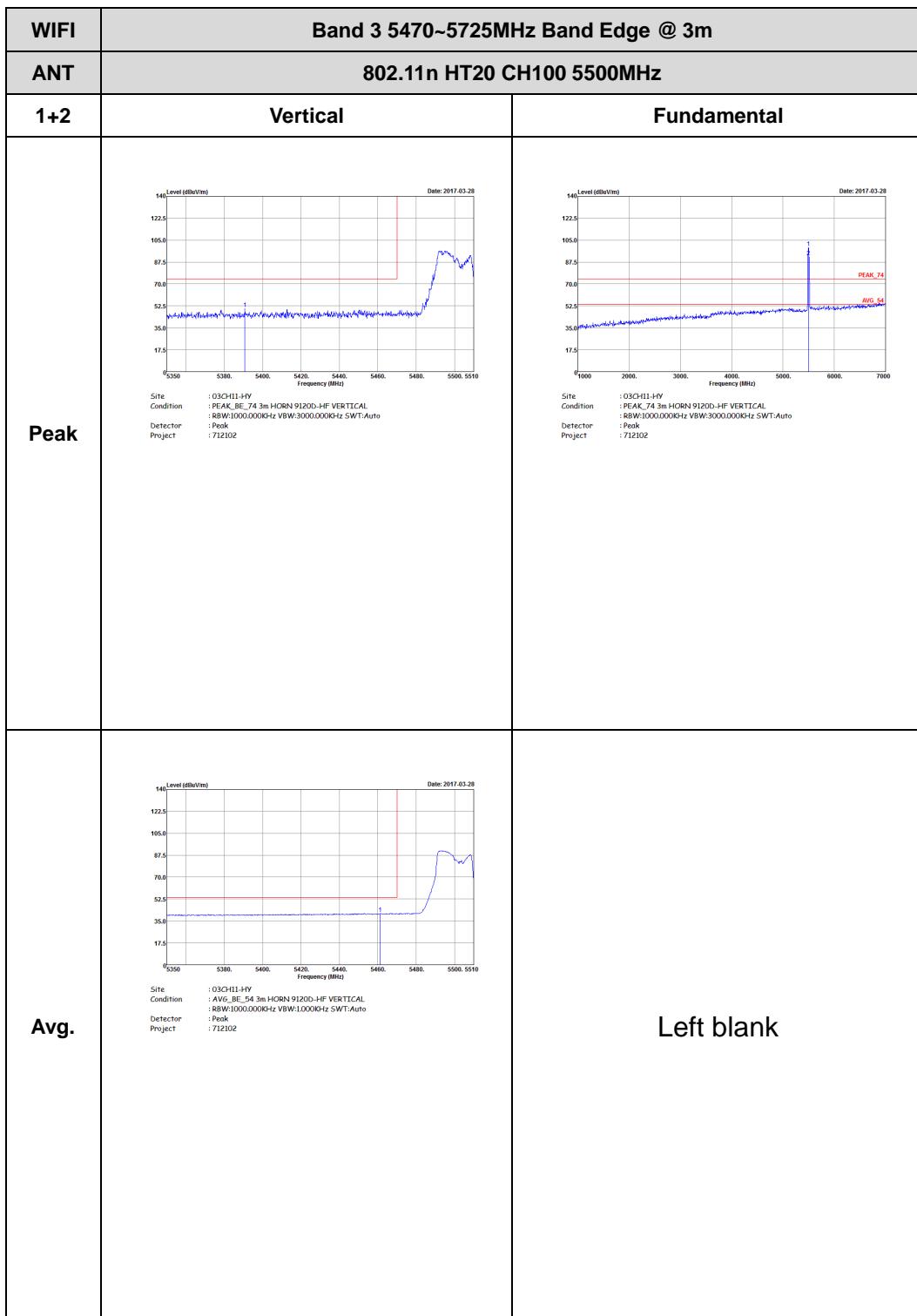


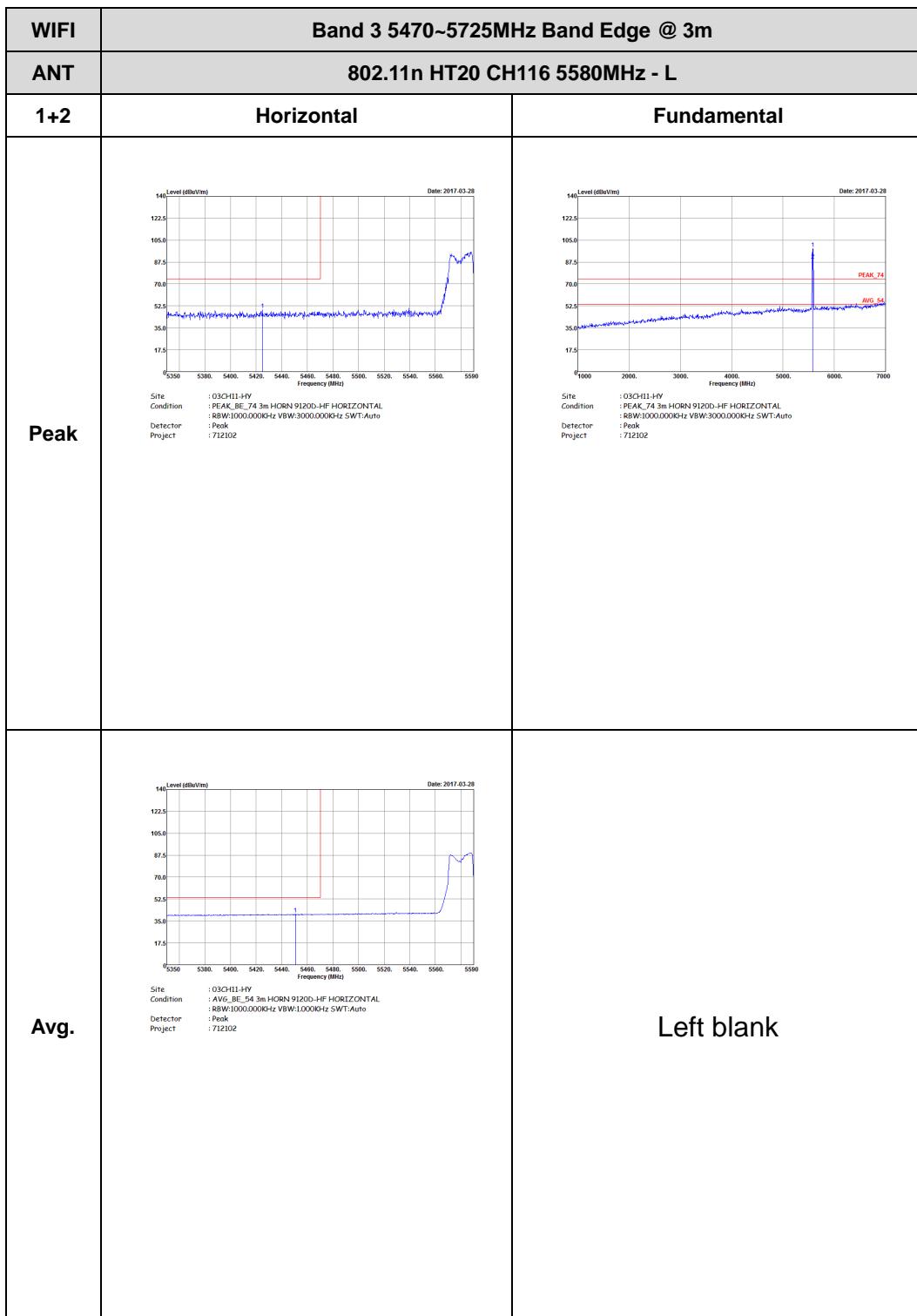




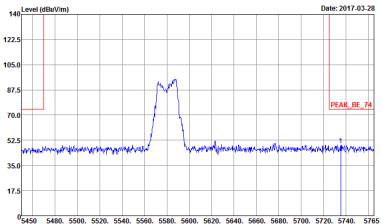
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

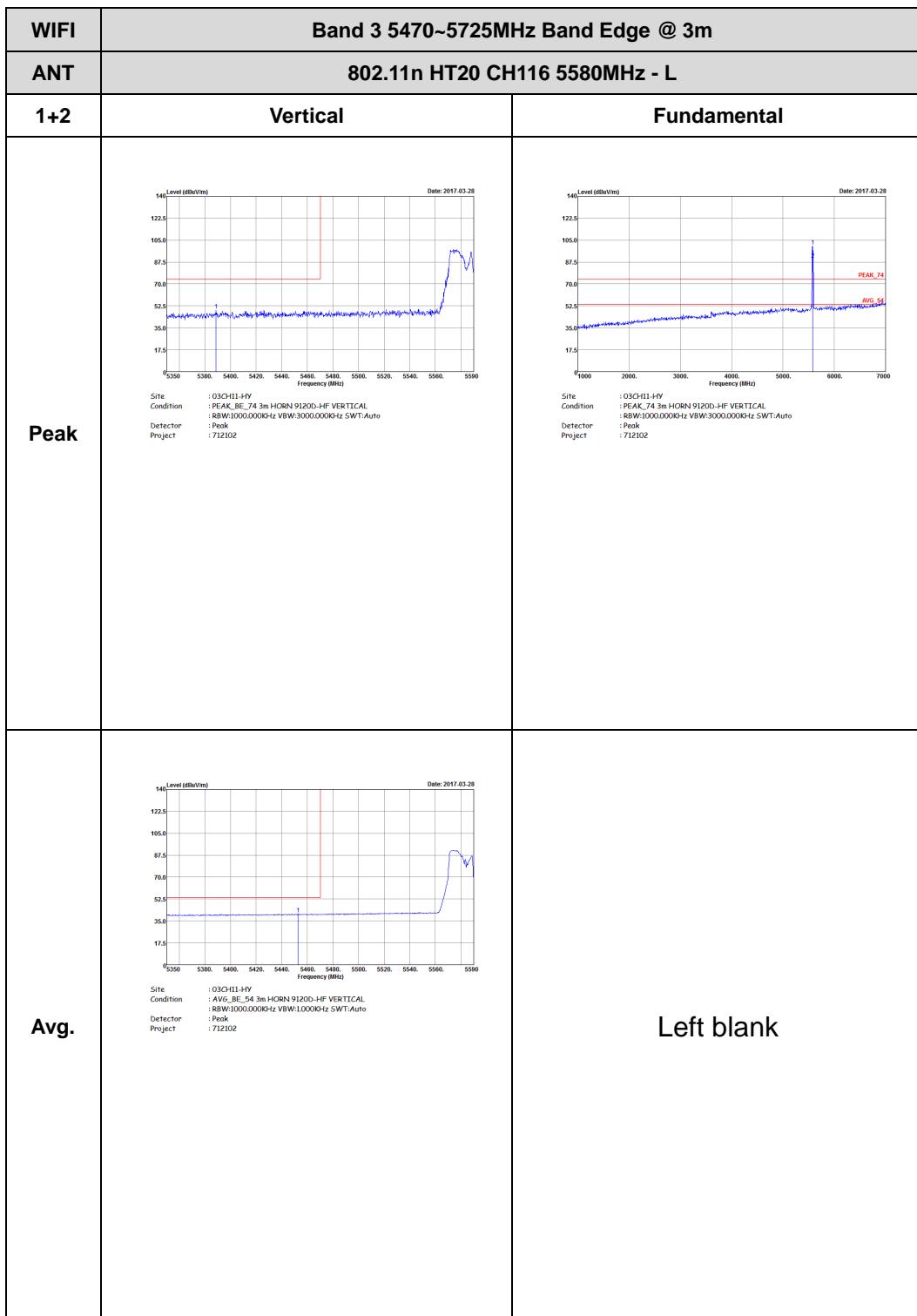
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : 712102</p>	Left blank



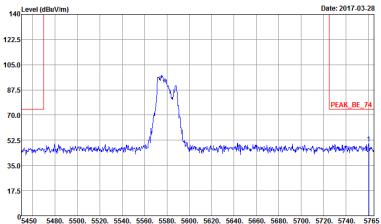
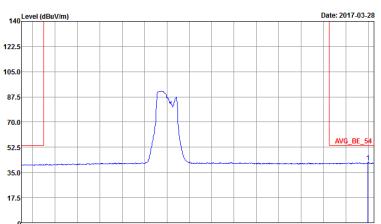


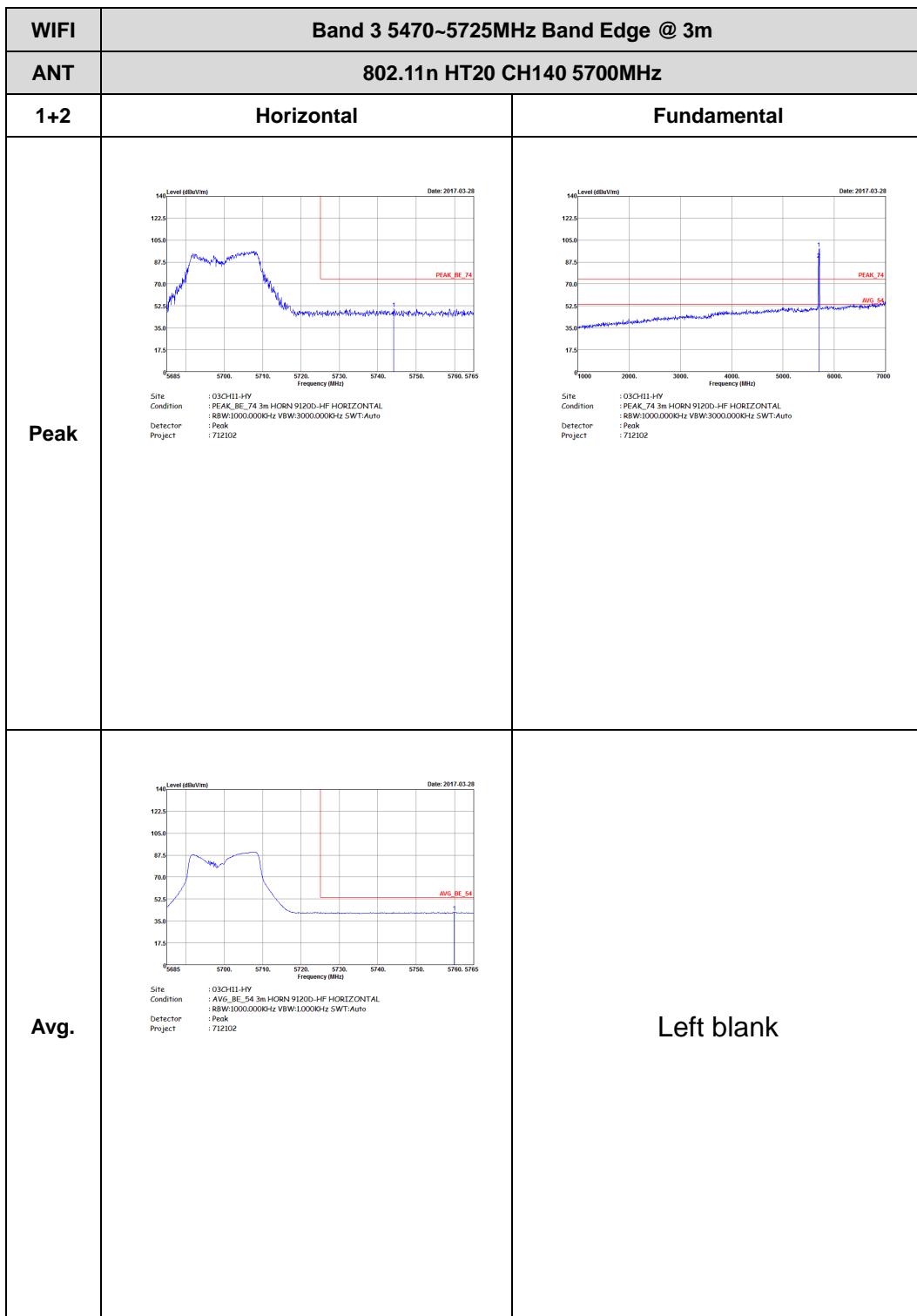


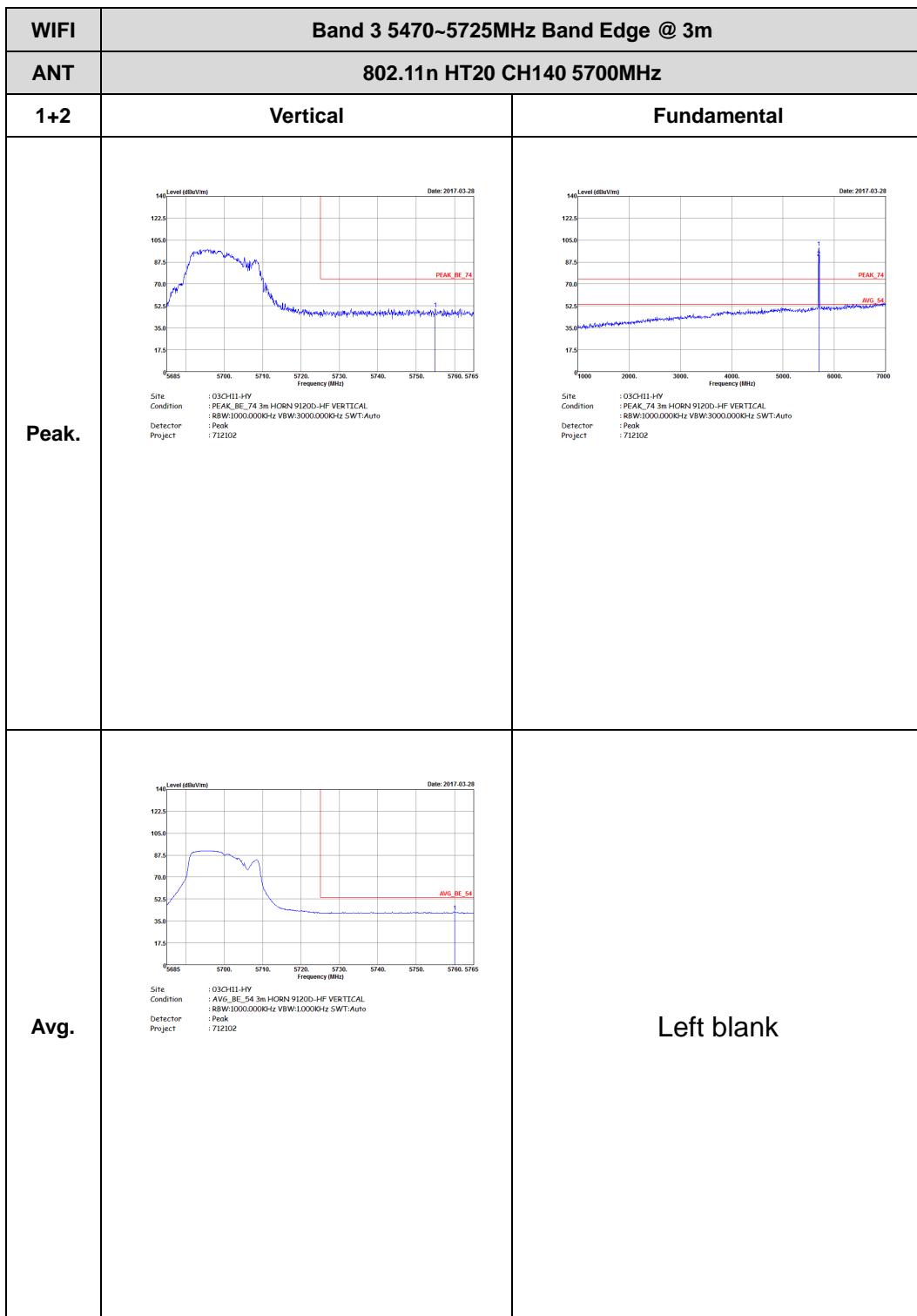
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak at 5580 MHz labeled 'PEAK_BE_74'. The baseline is flat around 35 dBc.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad peak at 5580 MHz labeled 'AVG_BE_54'. The baseline is flat around 35 dBc.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank





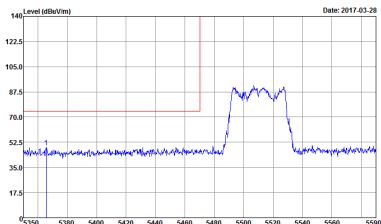
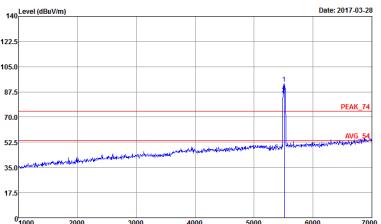
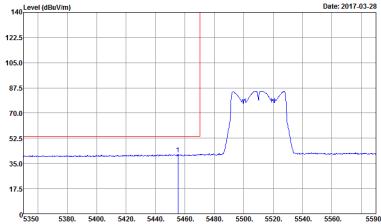
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/100KHz) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak at 5580 MHz labeled 'PEAK_BE_74'. The y-axis ranges from 17.5 to 140 dBc/100KHz. The x-axis ranges from 5450 to 5765 MHz. Text below the plot includes Site: 03CH11-HV, Condition: PEAK_BE_74 3m HORN 9120D-HF VERTICAL, Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto, Project: 712102.</p>	Left blank
Avg.	 <p>Level (dBc/100KHz) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad peak at 5580 MHz labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/100KHz. The x-axis ranges from 5450 to 5765 MHz. Text below the plot includes Site: 03CH11-HV, Condition: AVG_BE_54 3m HORN 9120D-HF VERTICAL, Detector: RBW:1000.000KHz VBW:10000KHz SWT:Auto, Project: 712102.</p>	Left blank



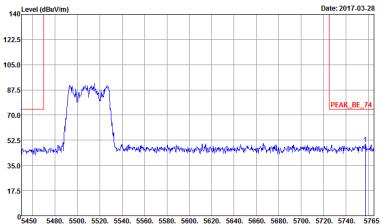


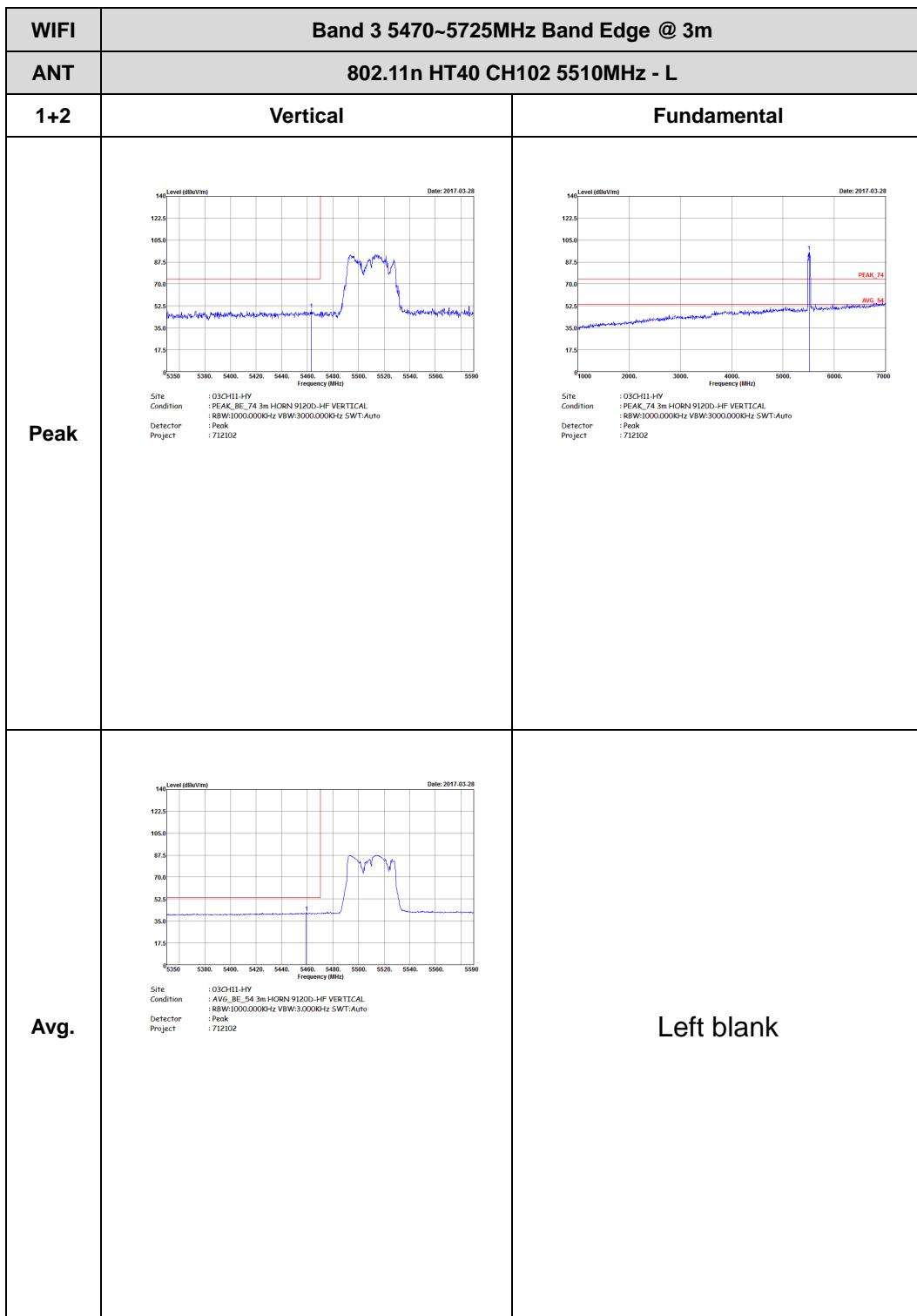


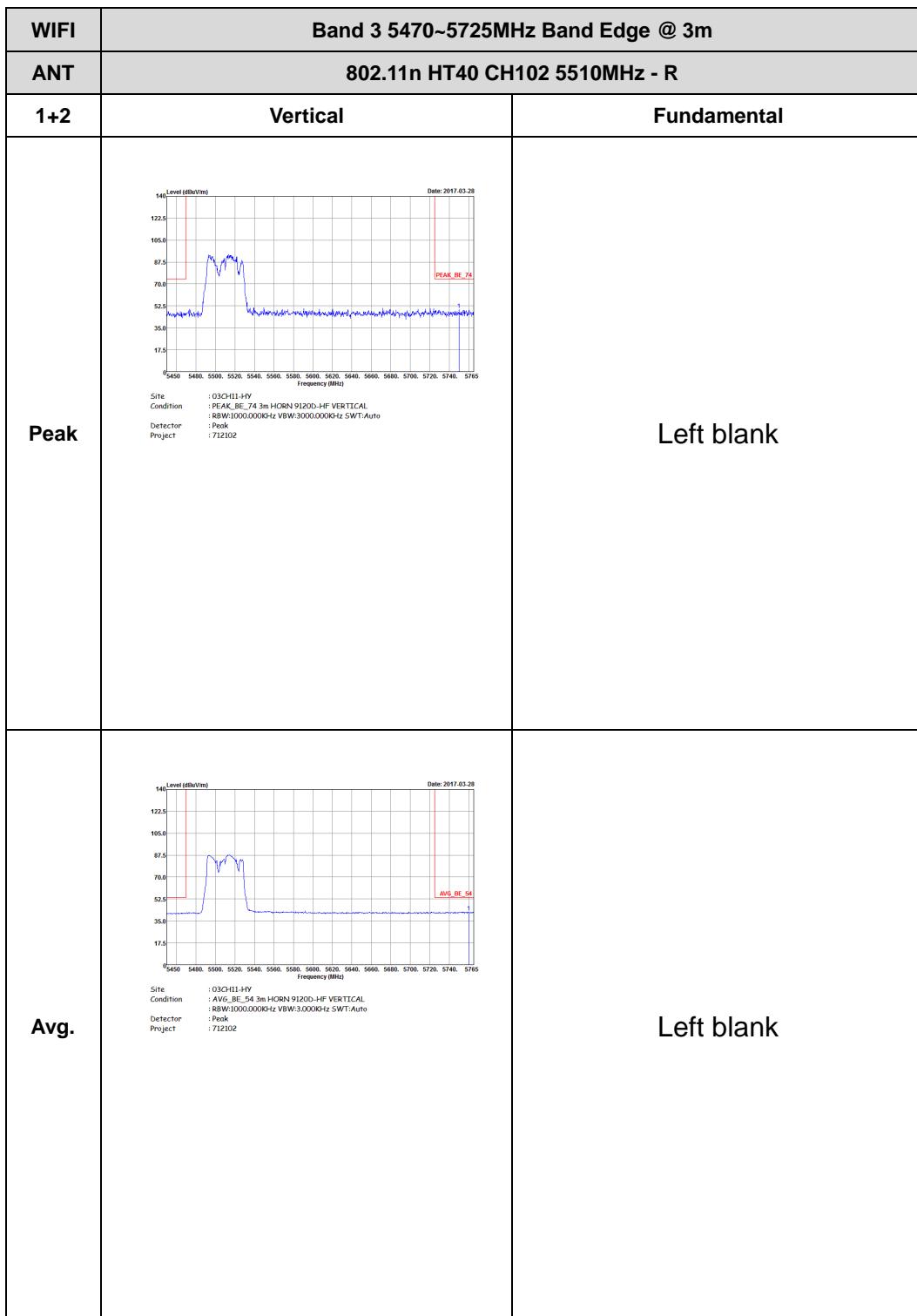
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

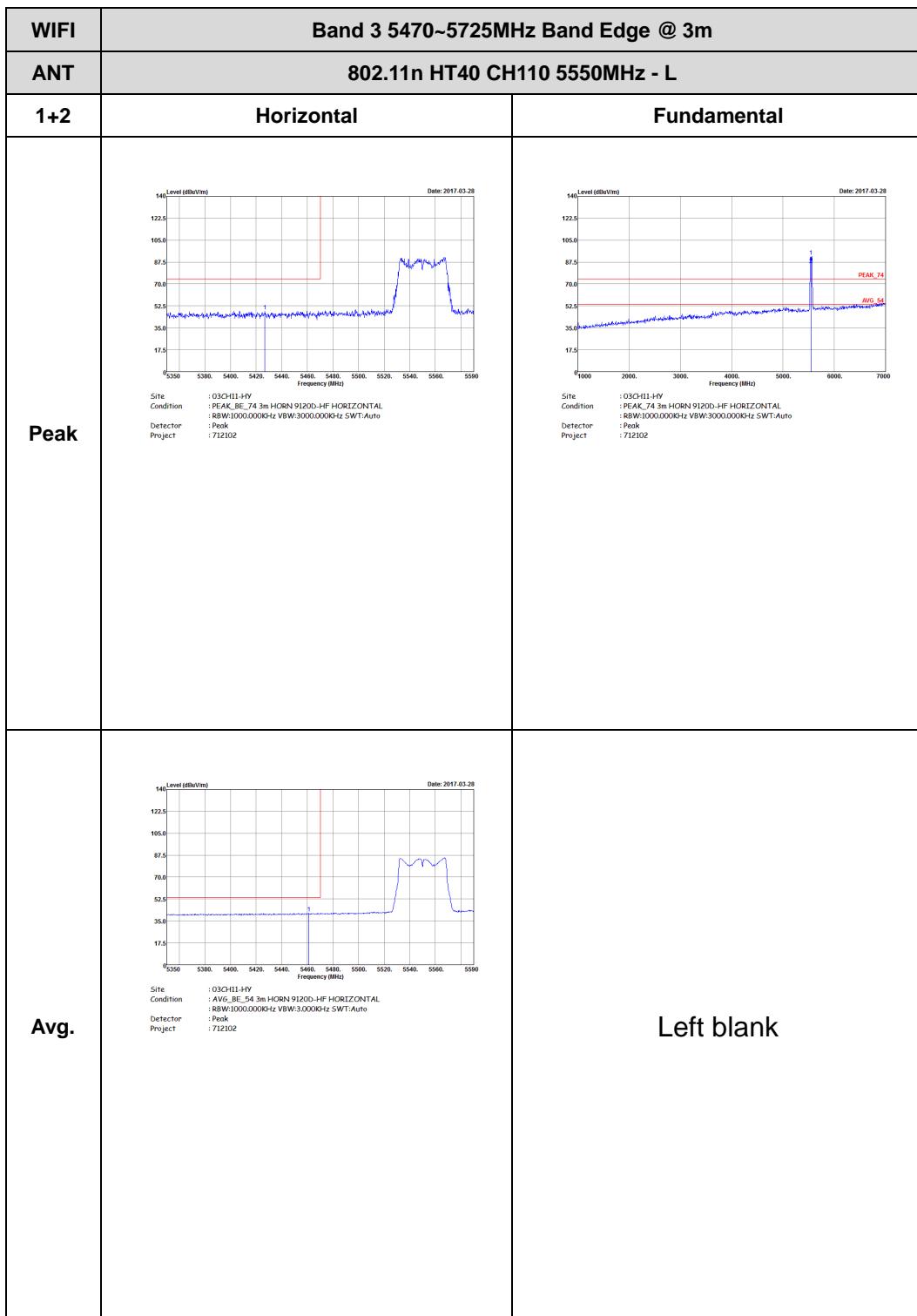
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 712102</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : 712102</p>	Left blank



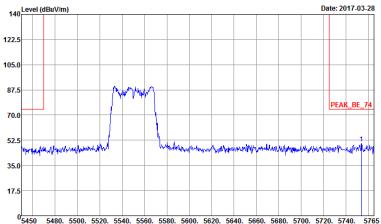
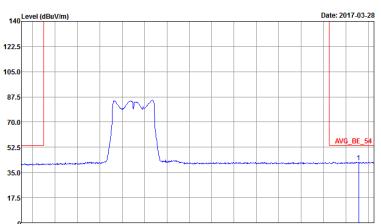
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5510MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

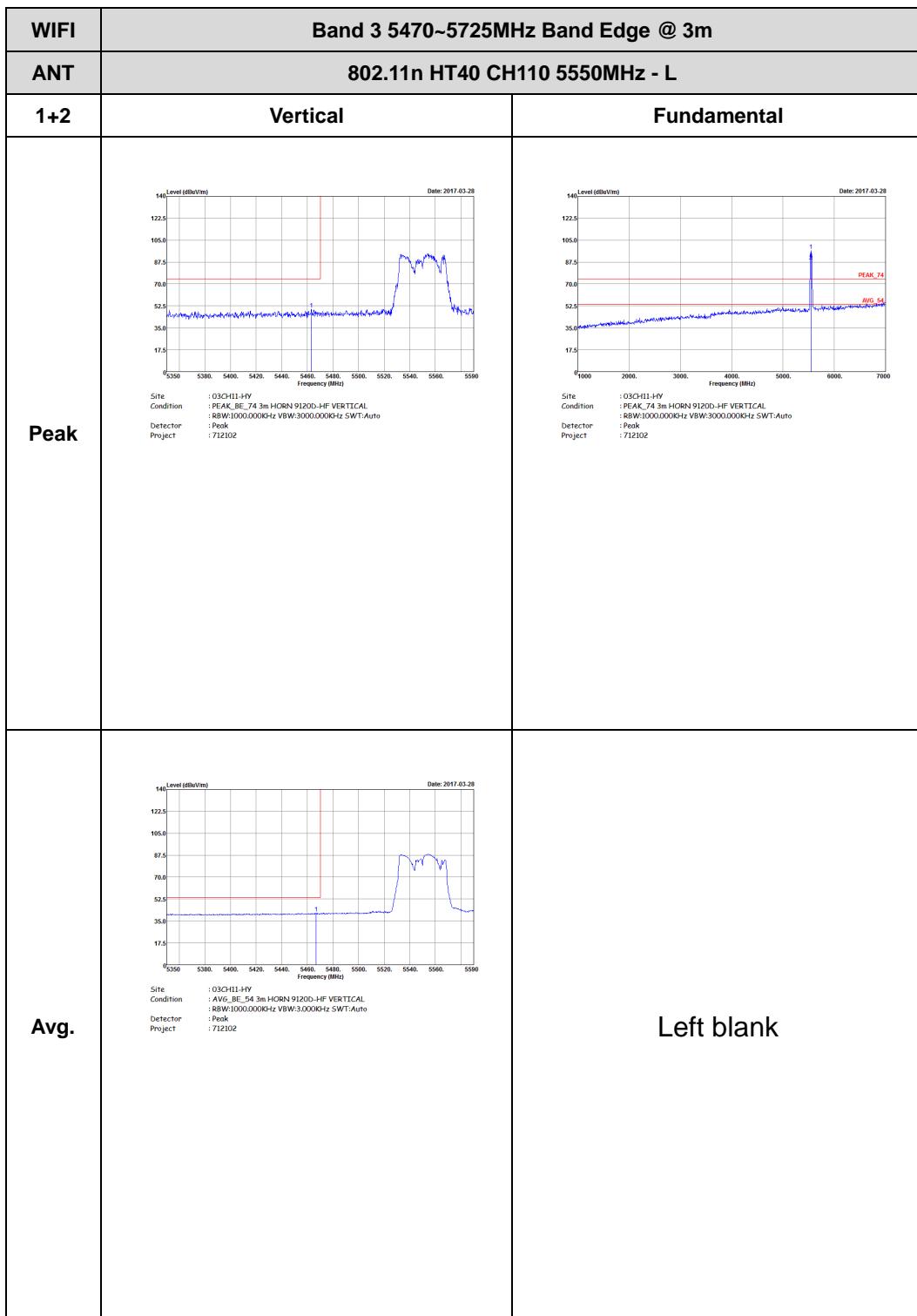




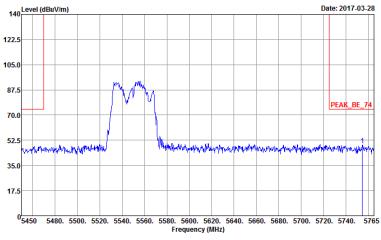
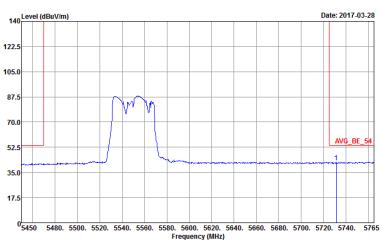




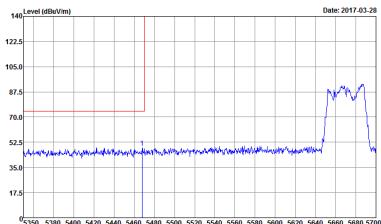
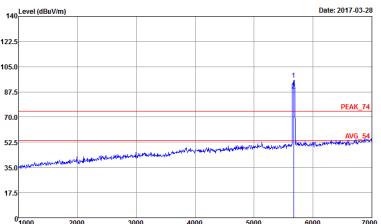
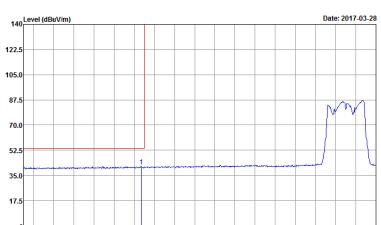
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5550 MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Text below the plot: Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad peak labeled 'AVG_BE_54' at approximately 5550 MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Text below the plot: Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

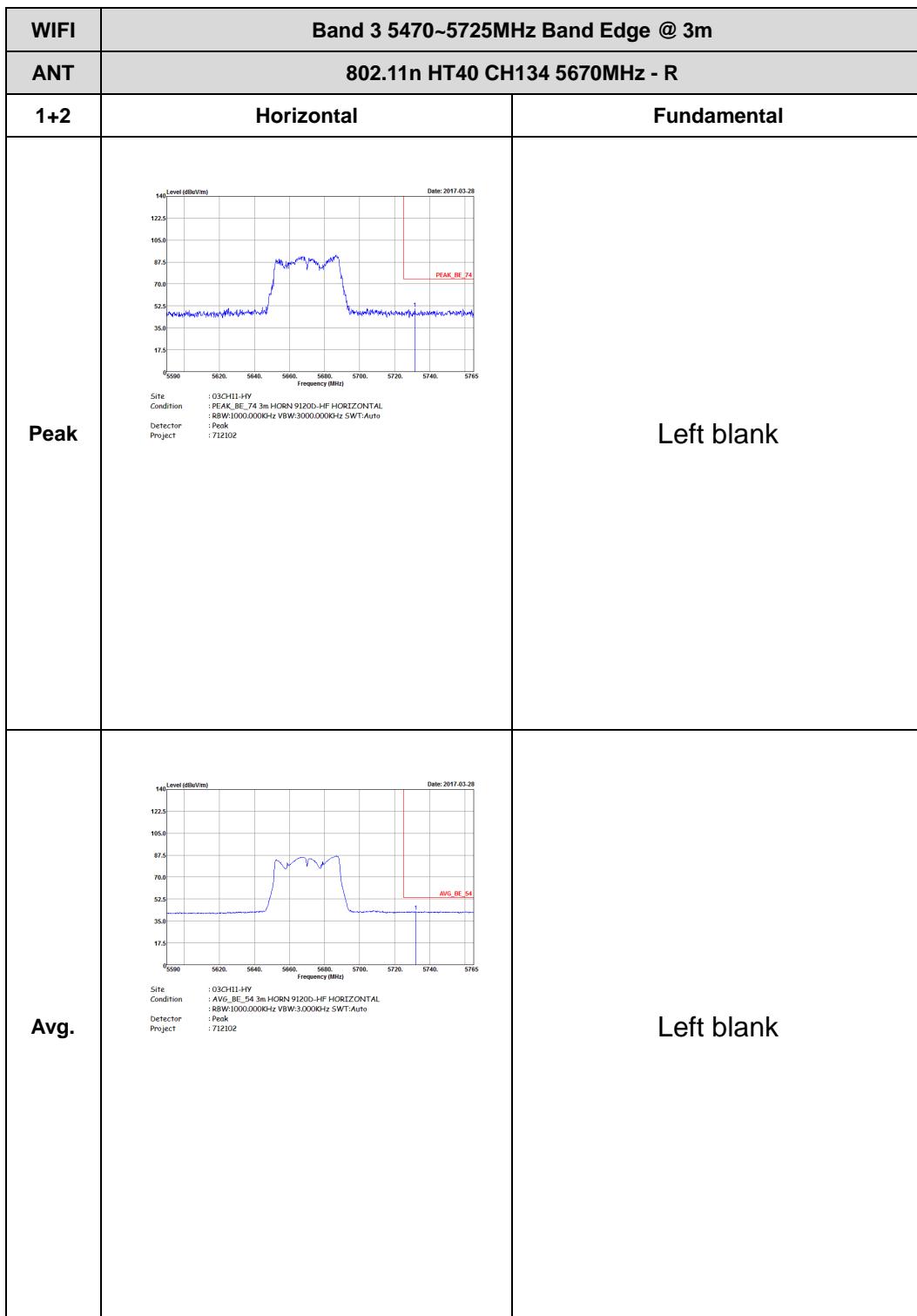


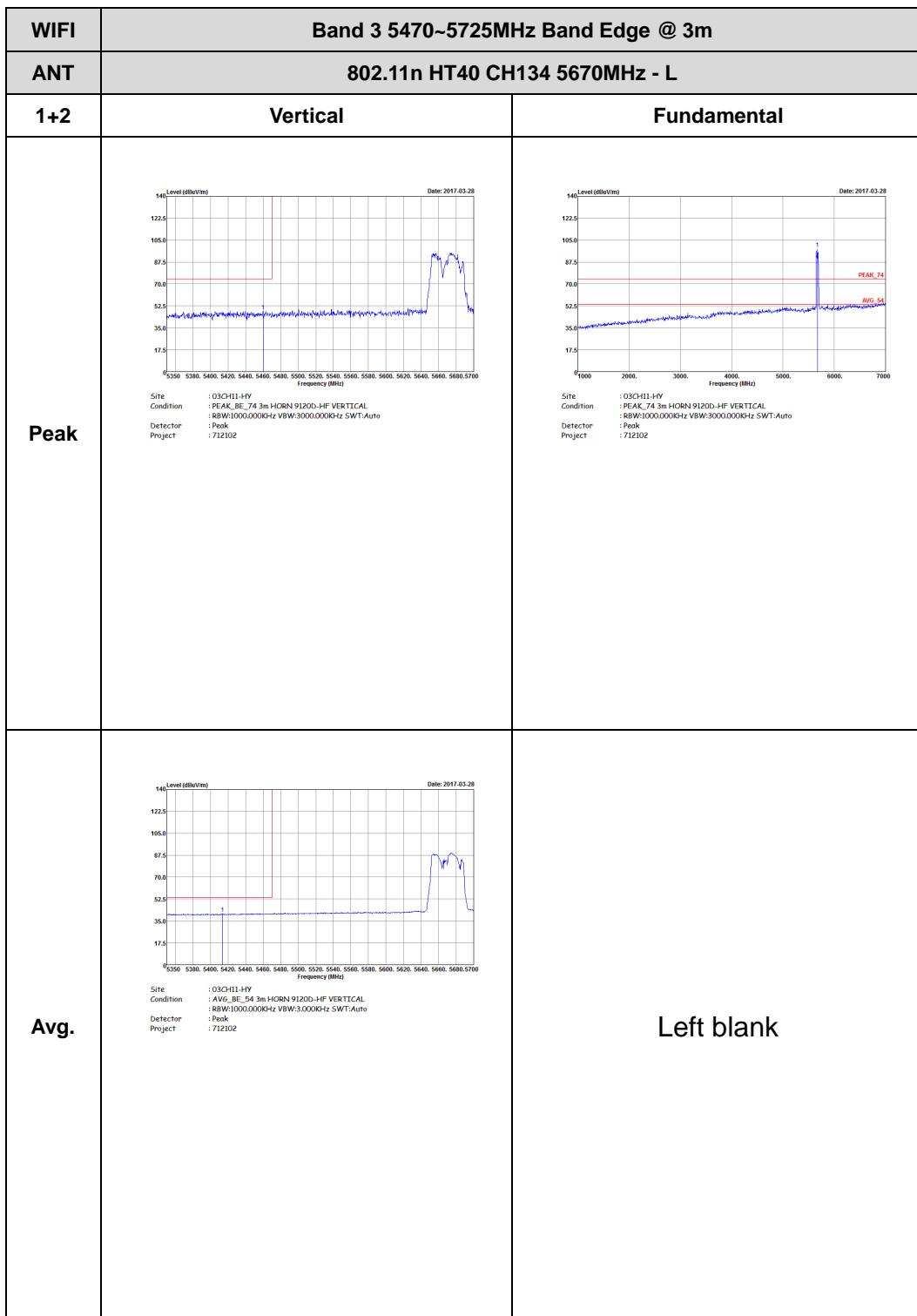


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5550 MHz. The baseline is around 35 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak :712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad peak labeled 'AVG_BE_54' at approximately 5550 MHz. The baseline is around 35 dBc/1m.</p> <p>Date: 2017-03-28</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Project : Peak :712102</p>	Left blank

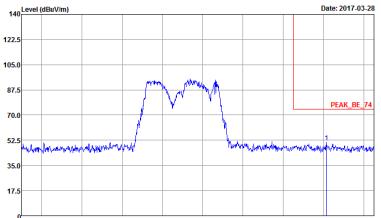
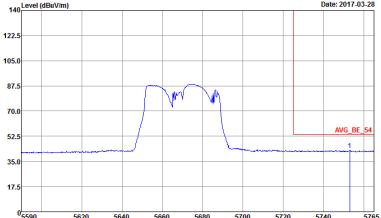


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3.000Hz SWT:Auto Detector : Peak Project : 712102</p>	Left blank





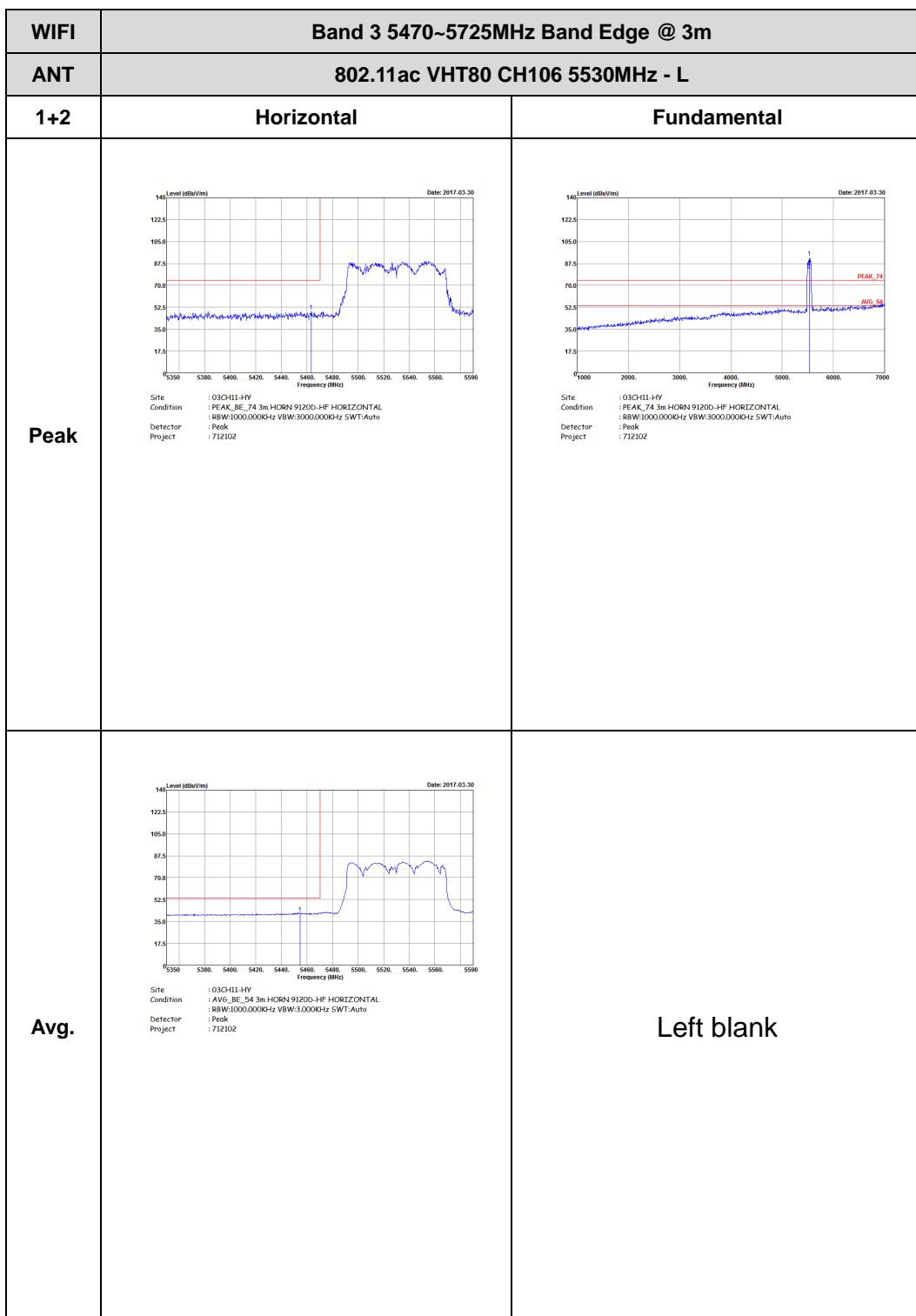


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5590 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5670MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5590 to 5765 MHz. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5590 to 5765. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5590 to 5765 MHz. The plot is dated 2017-03-28.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : 712102</p>	Left blank

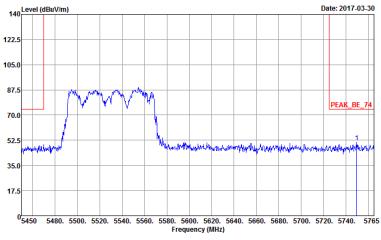
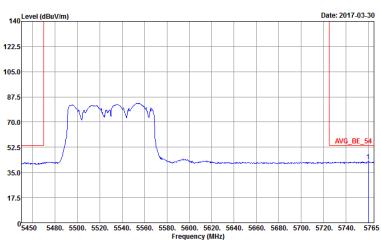


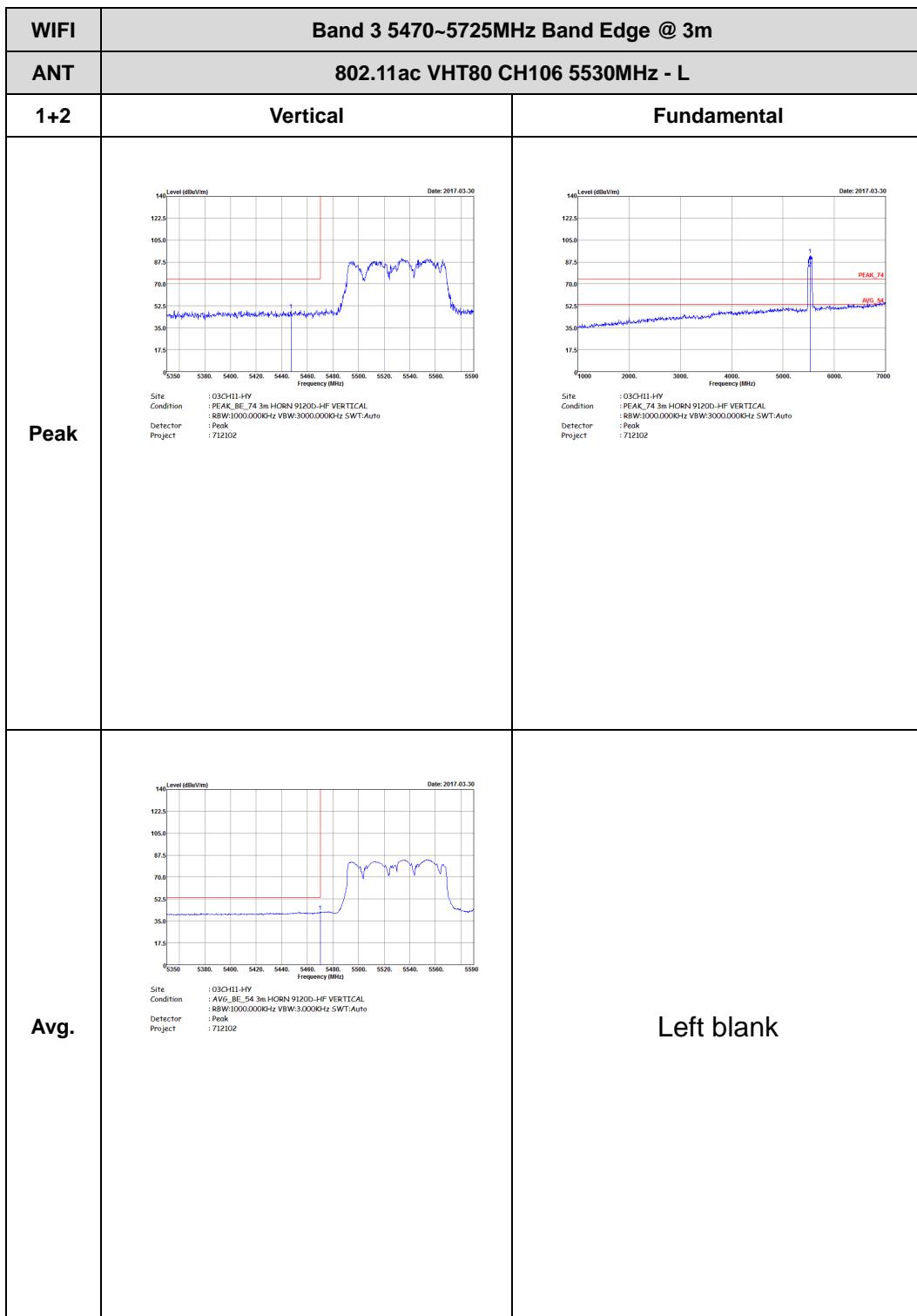
Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)





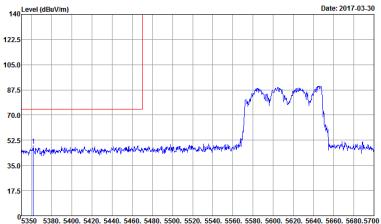
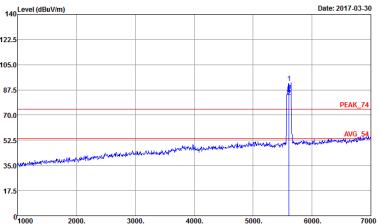
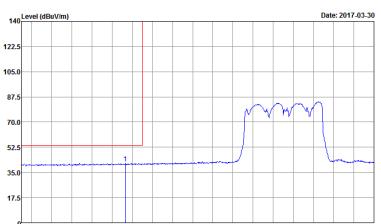
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5530 MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz.</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz.</p> <p>Date: 2017-03-30</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.0000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank



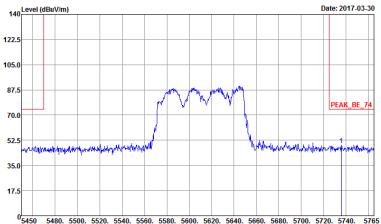
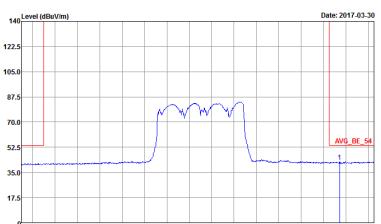


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

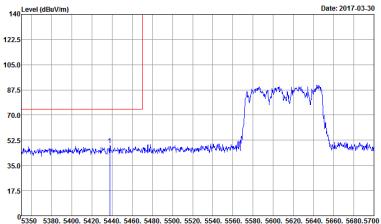
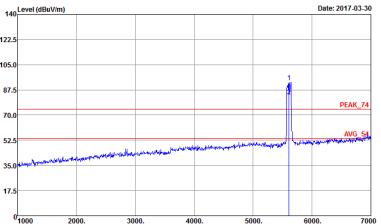
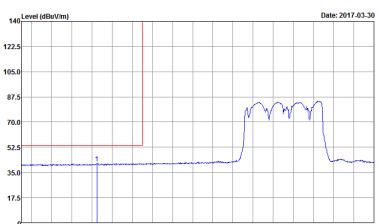


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : BW:1000.000KHz VBW:3.000Hz SWT:Auto Detector : Peak Project : 712102</p>	Left blank

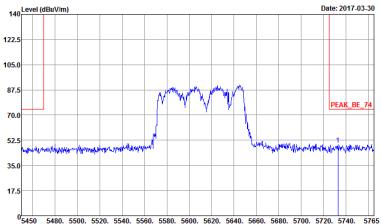
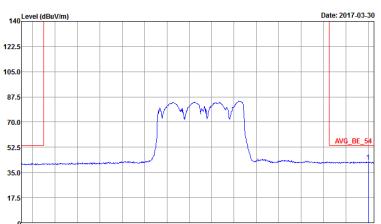


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5610MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Test parameters: Site: 03CH11-HV, Condition: PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL, BW:1000.000KHz VBW:3000.000KHz SWT:Auto, Detector: Peak, Project: 712102.</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Test parameters: Site: 03CH11-HV, Condition: AVG_BE_54 3m HORN 9120D-HF HORIZONTAL, BW:1000.000KHz VBW:3.000KHz SWT:Auto, Detector: Peak, Project: 712102.</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3000.000Hz SWT:Auto Detector : Peak Project : 712102
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : BW:1000.000KHz VBW:3.000Hz SWT:Auto Detector : Peak Project : 712102	Left blank

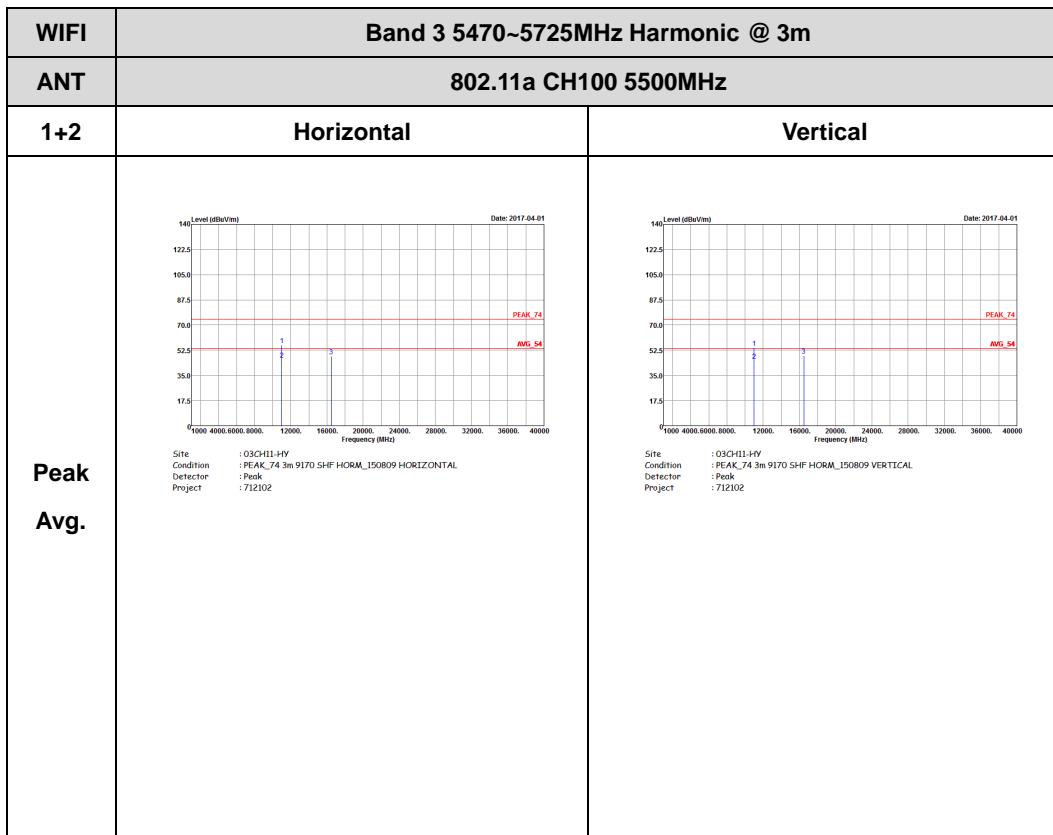


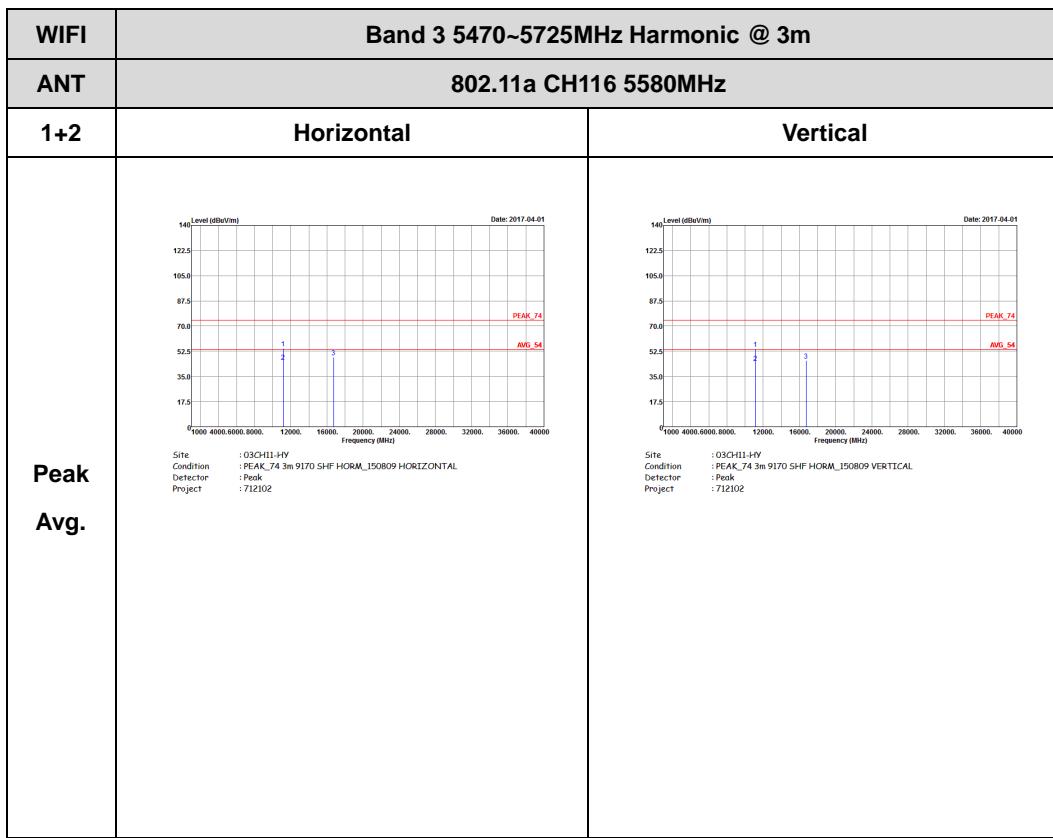
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a sharp peak labeled 'PEAK_BE_74' at approximately 5610MHz. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Test parameters: Site: 03CH11-HV, Condition: PEAK_BE_74 3m HORN 9120D-HF VERTICAL, BW:1000.000KHz VBW:3000.000KHz SWT:Auto, Detector: Peak, Project: 712102.</p>	Left blank
Avg.	 <p>Level (dBc/1m) vs Frequency (MHz) from 5450 to 5765. The plot shows a broad average envelope labeled 'AVG_BE_54'. The y-axis ranges from 17.5 to 140 dBc/1m. The x-axis ranges from 5450 to 5765 MHz. Test parameters: Site: 03CH11-HV, Condition: AVG_BE_54 3m HORN 9120D-HF VERTICAL, BW:1000.000KHz VBW:3.000KHz SWT:Auto, Detector: Peak, Project: 712102.</p>	Left blank

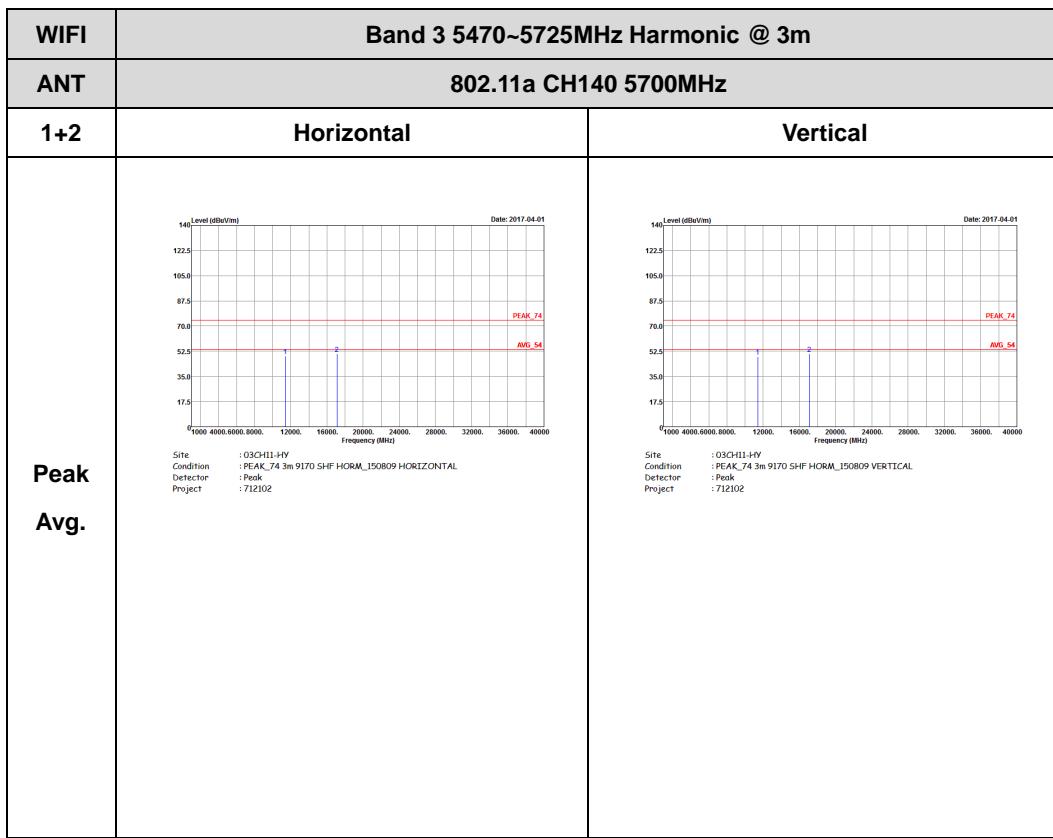


Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

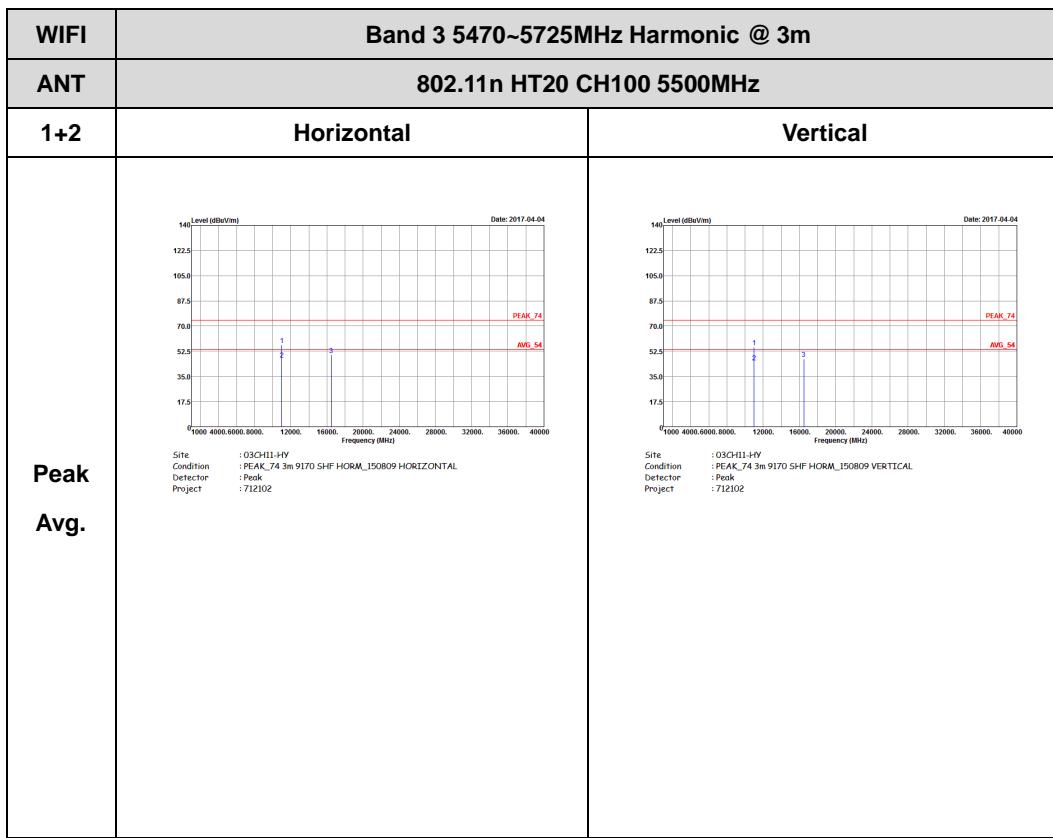


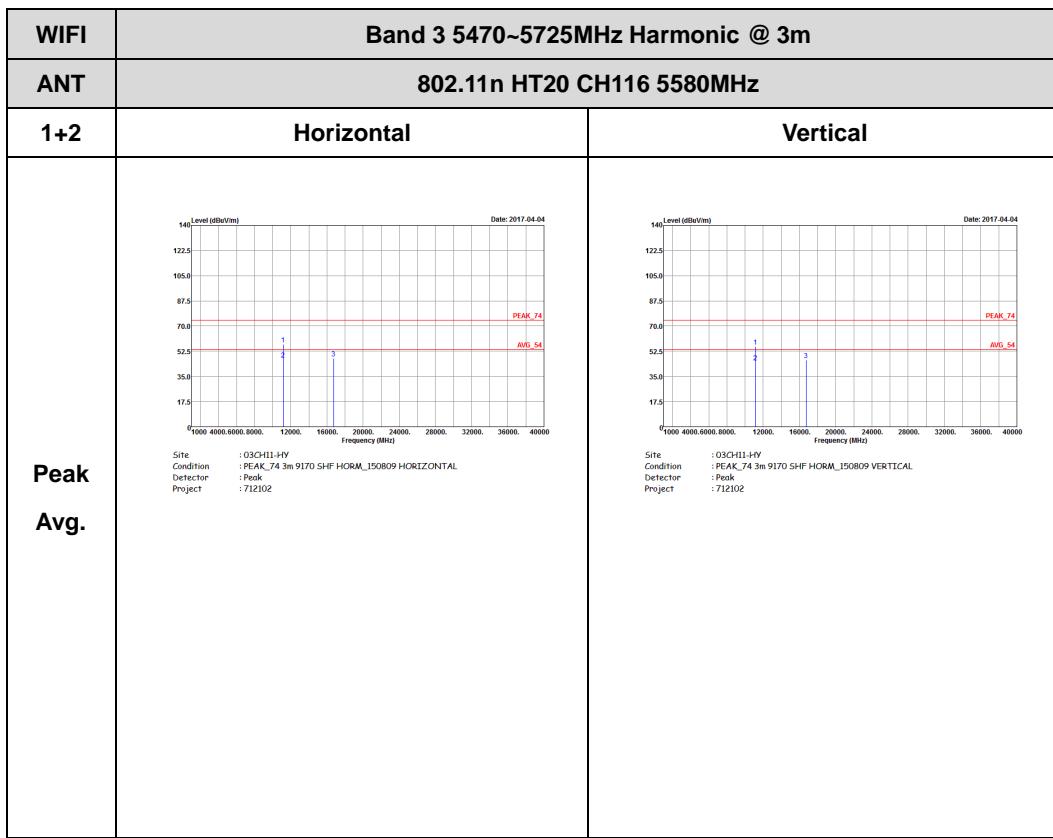


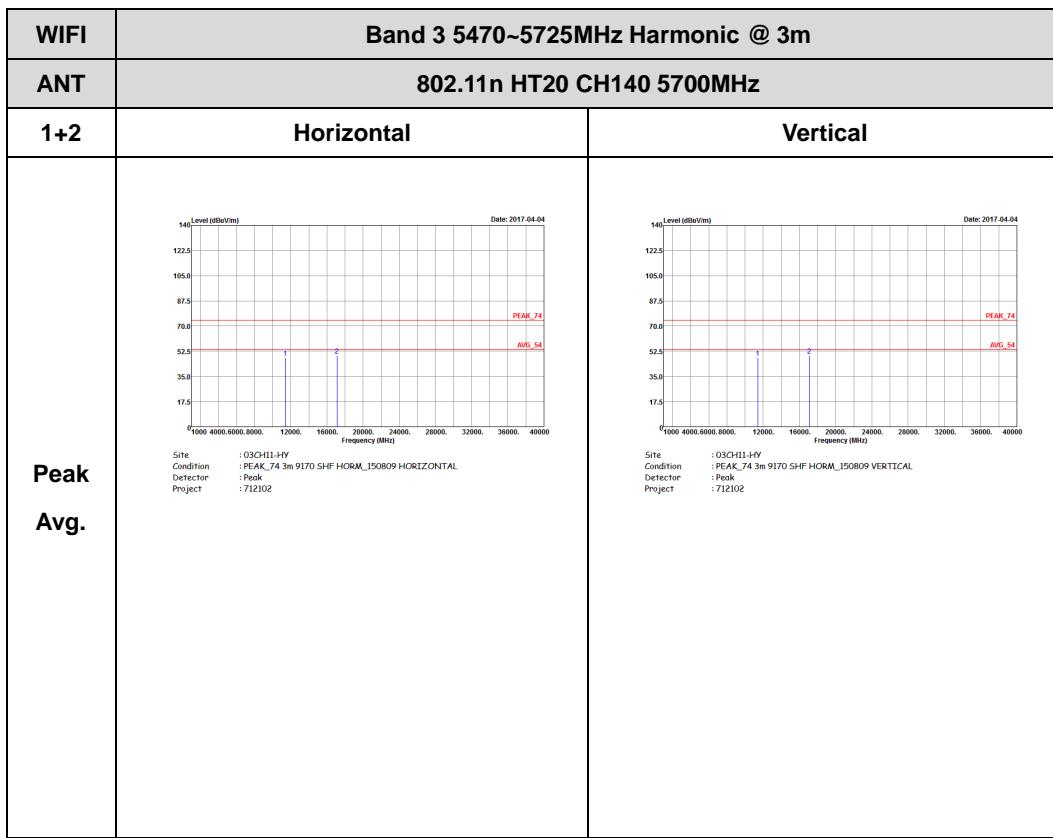




Band 3 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

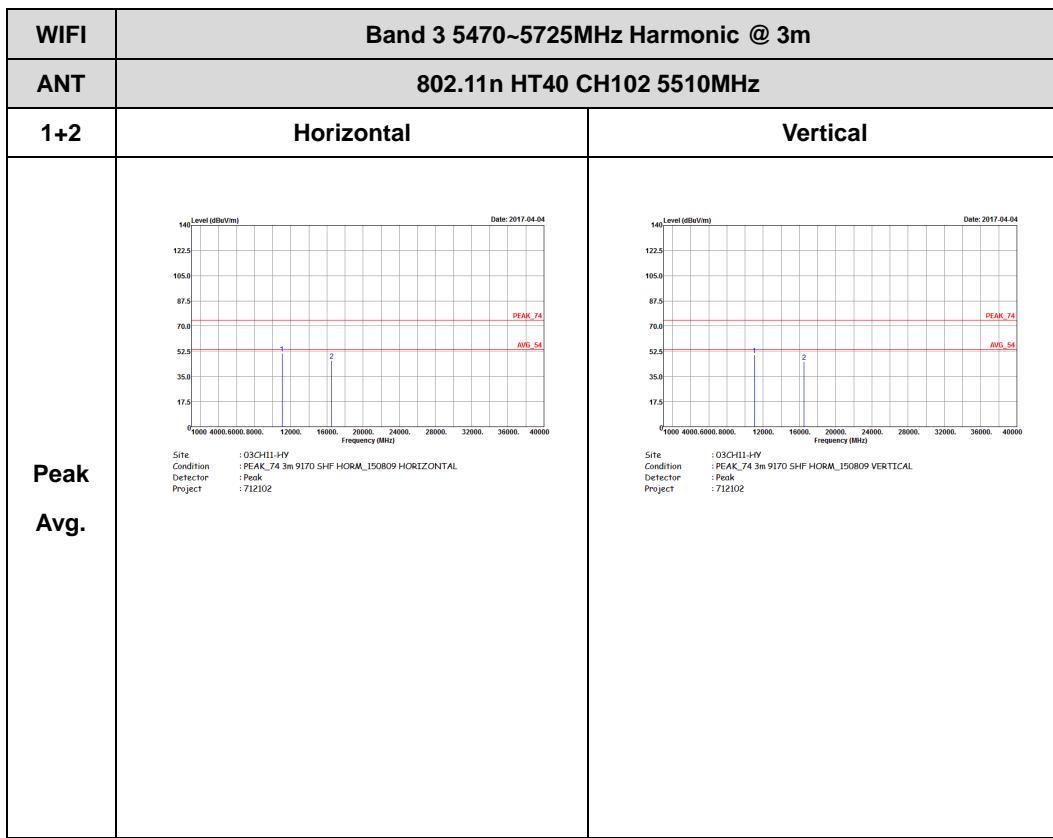


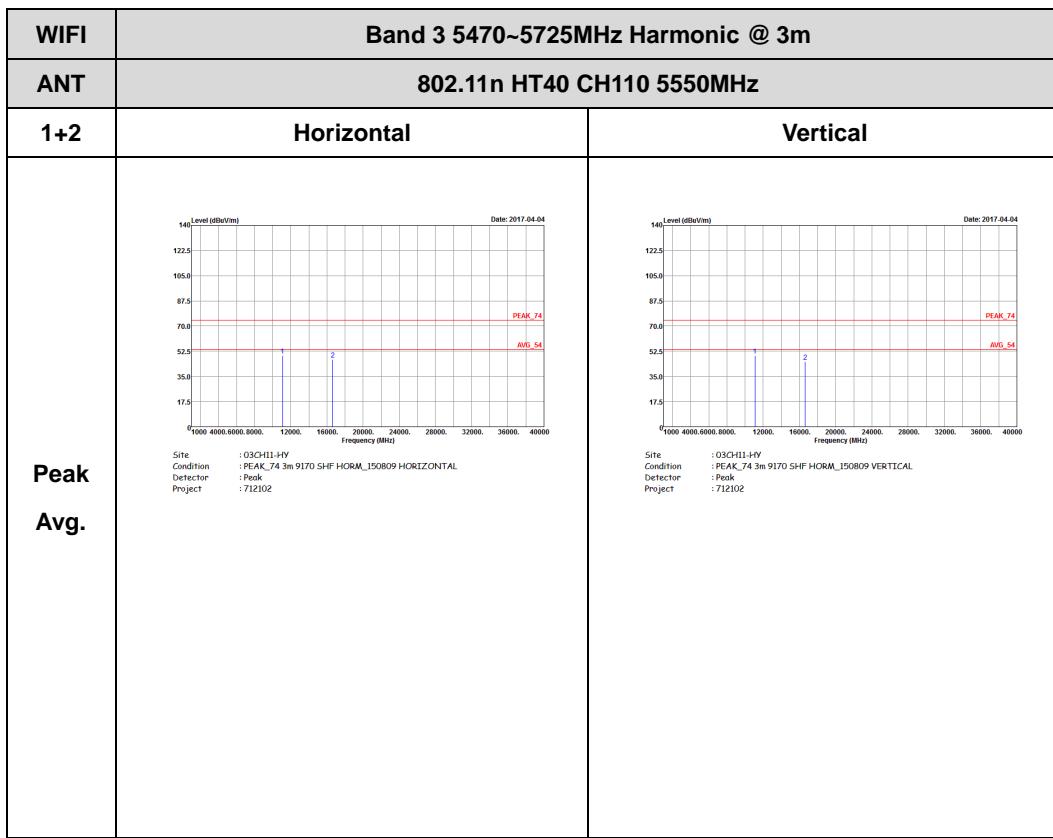


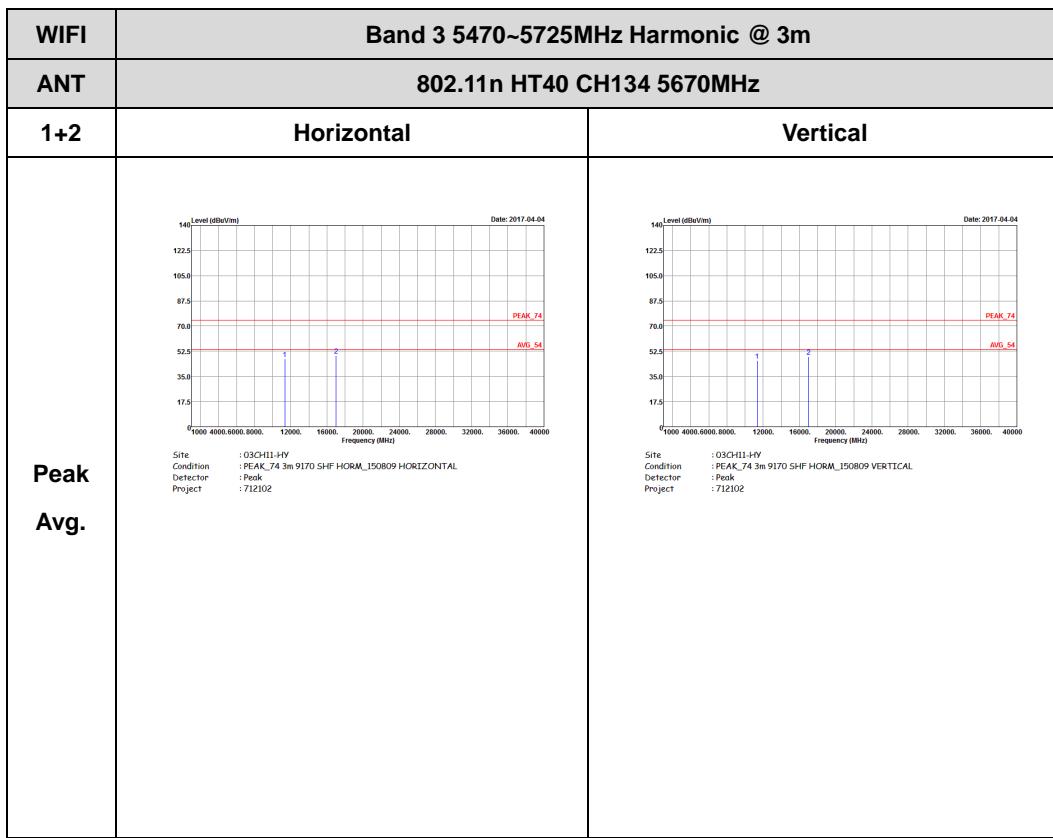




Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)



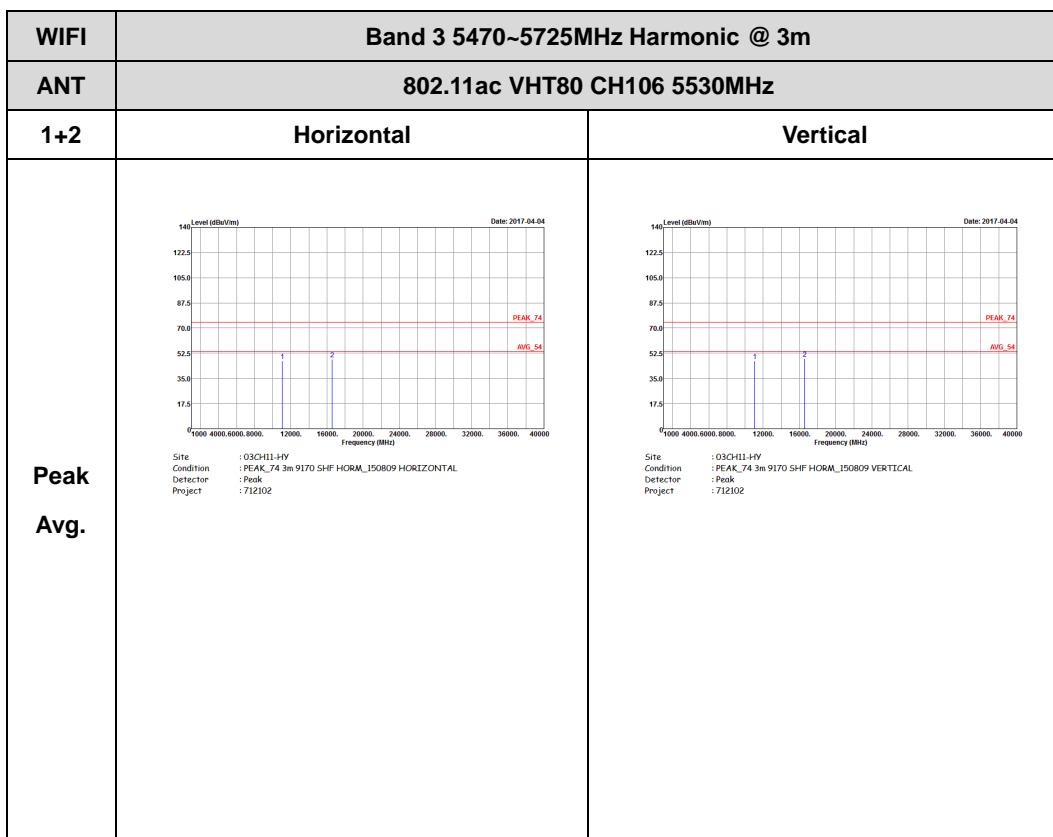


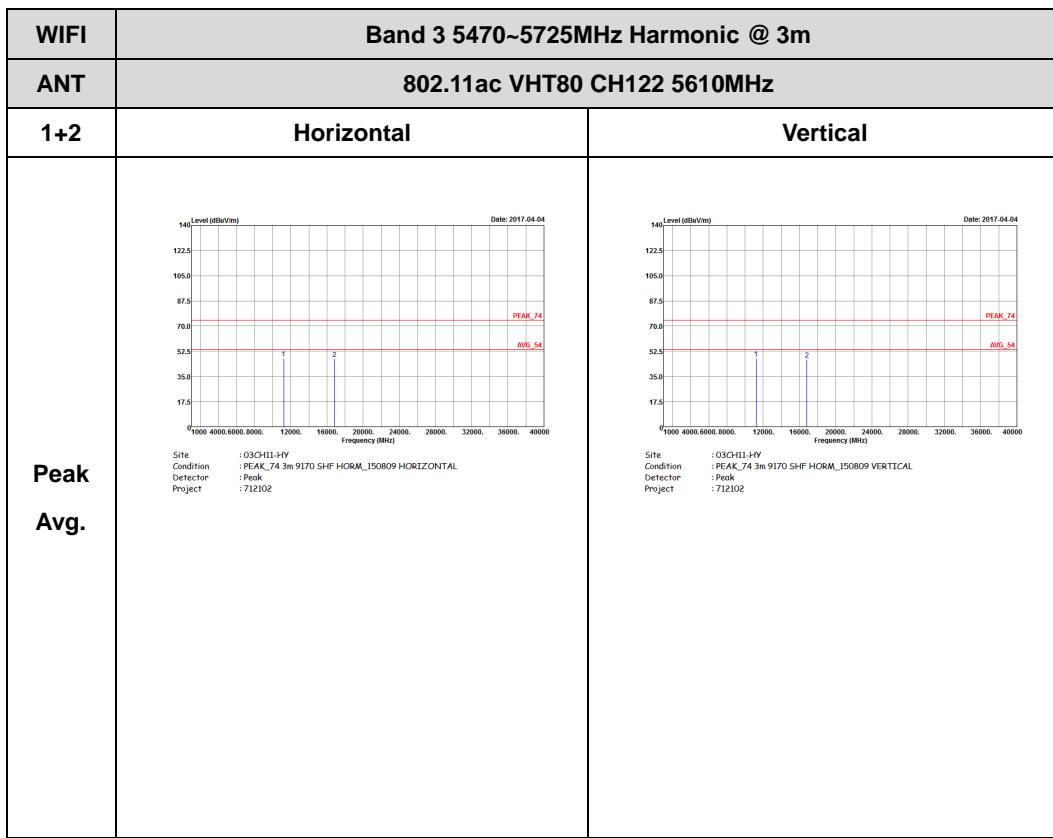




Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

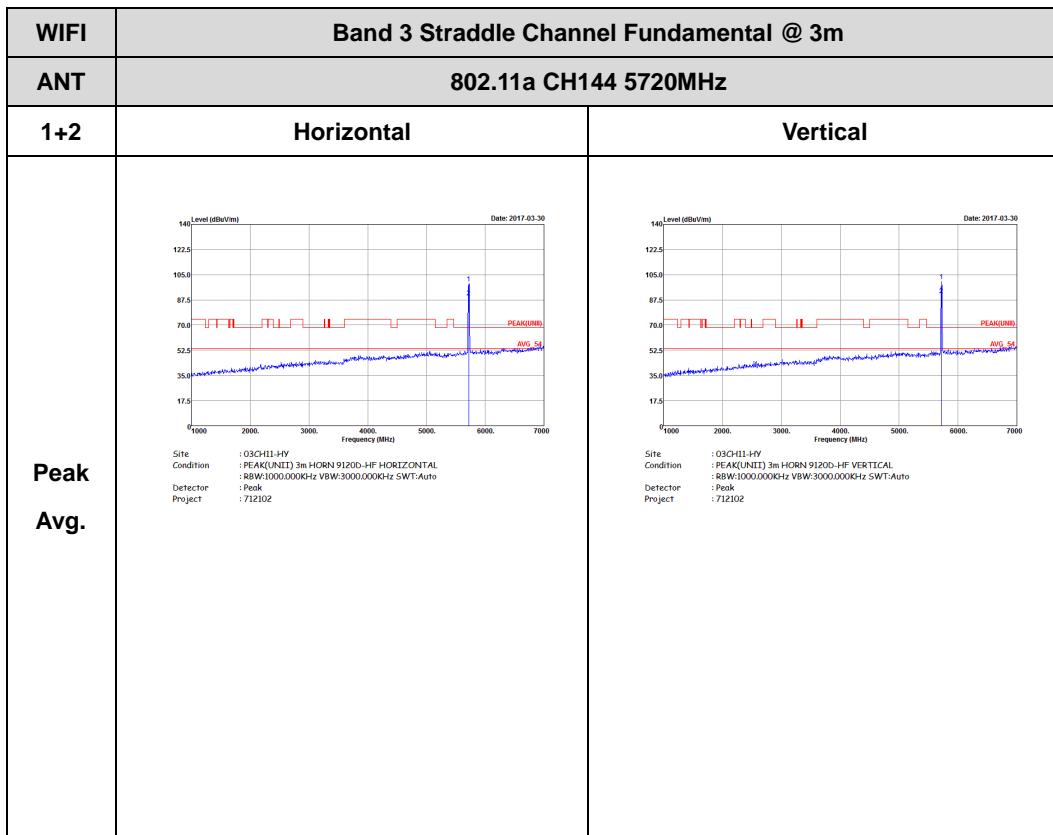






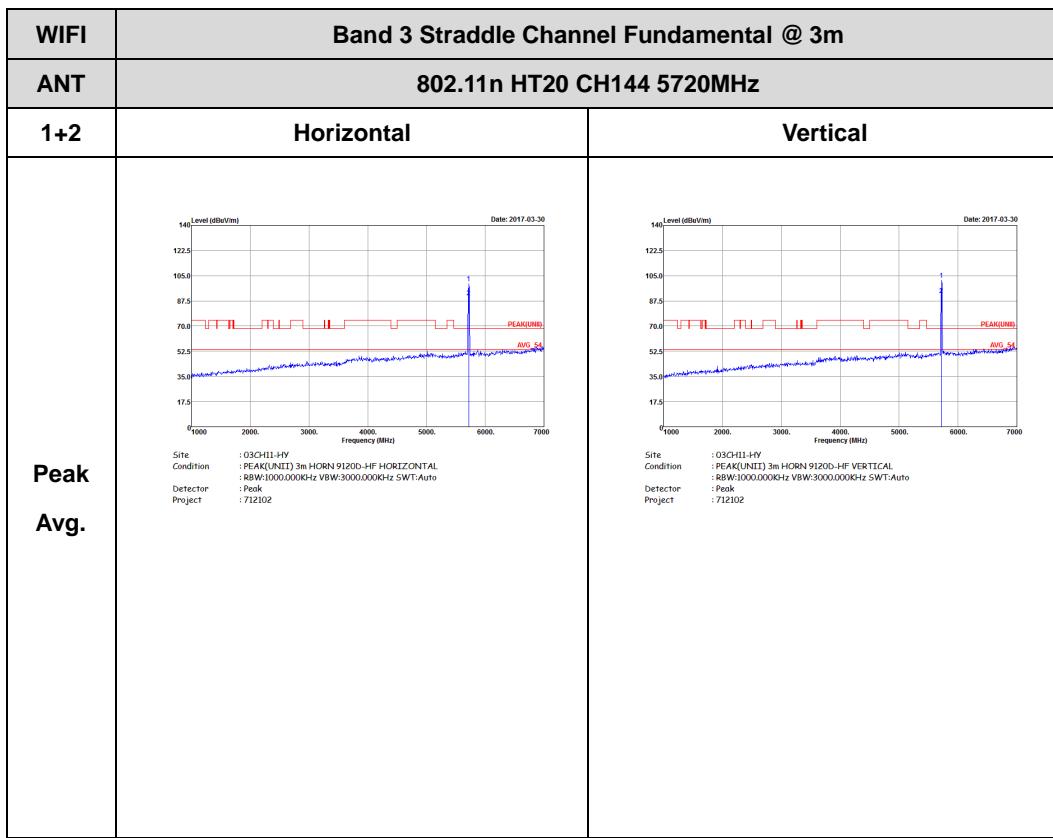
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)



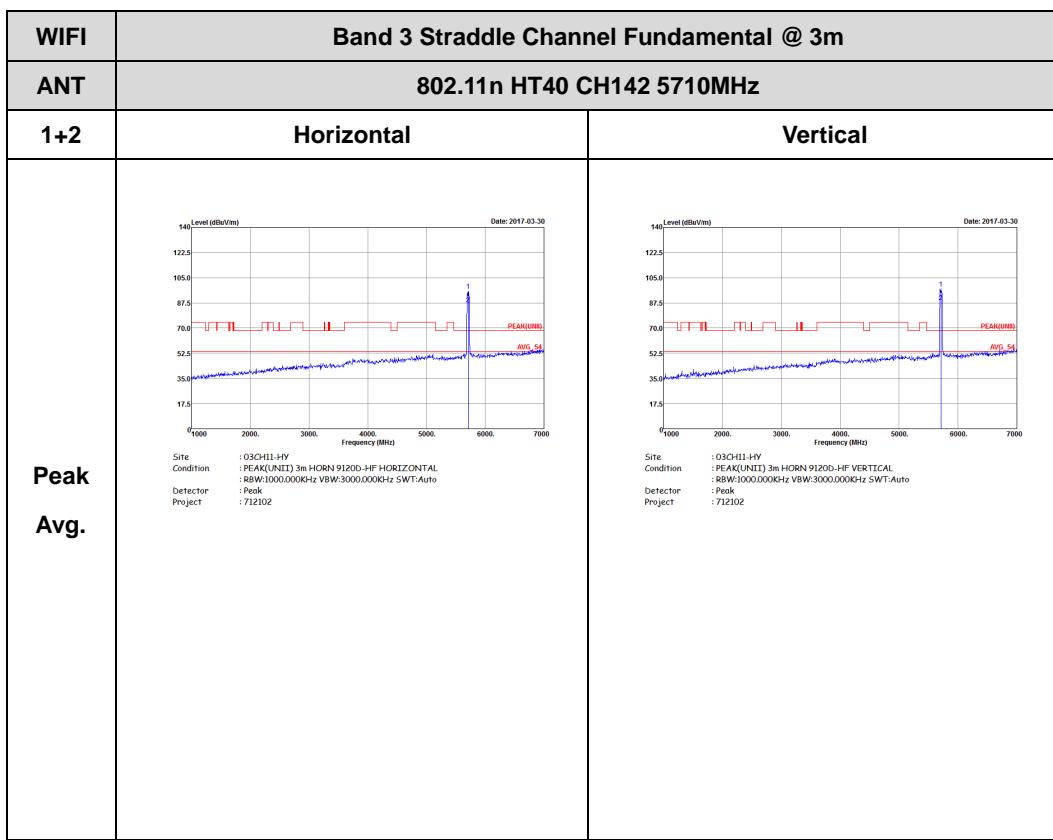


Band 3 – Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)



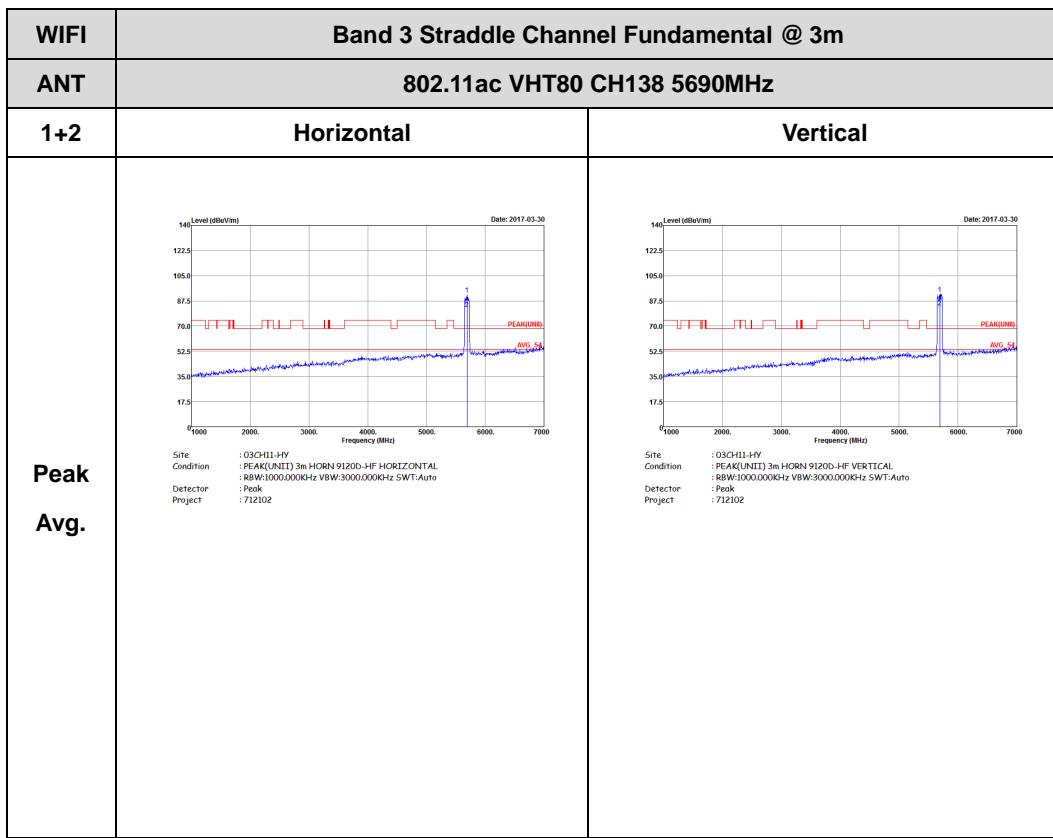


Band 3 – Straddle Channel
WIFI 802.11n HT40 (Fundamental @ 3m)





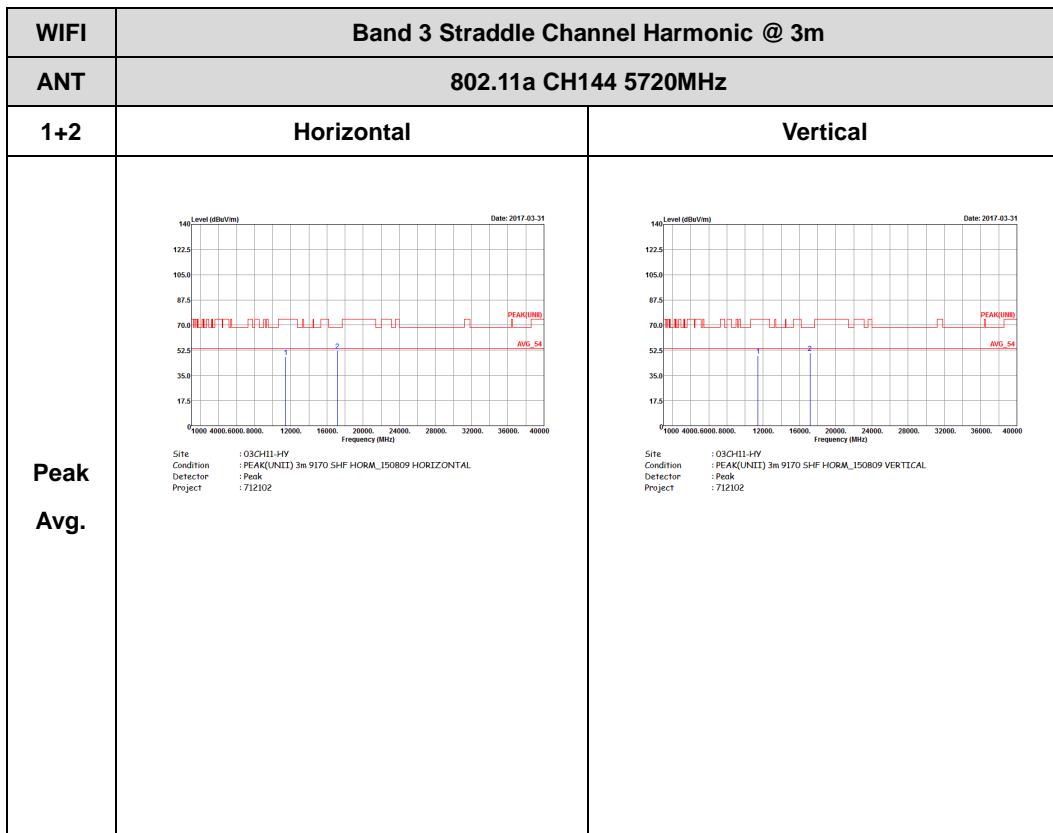
Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Fundamental @ 3m)





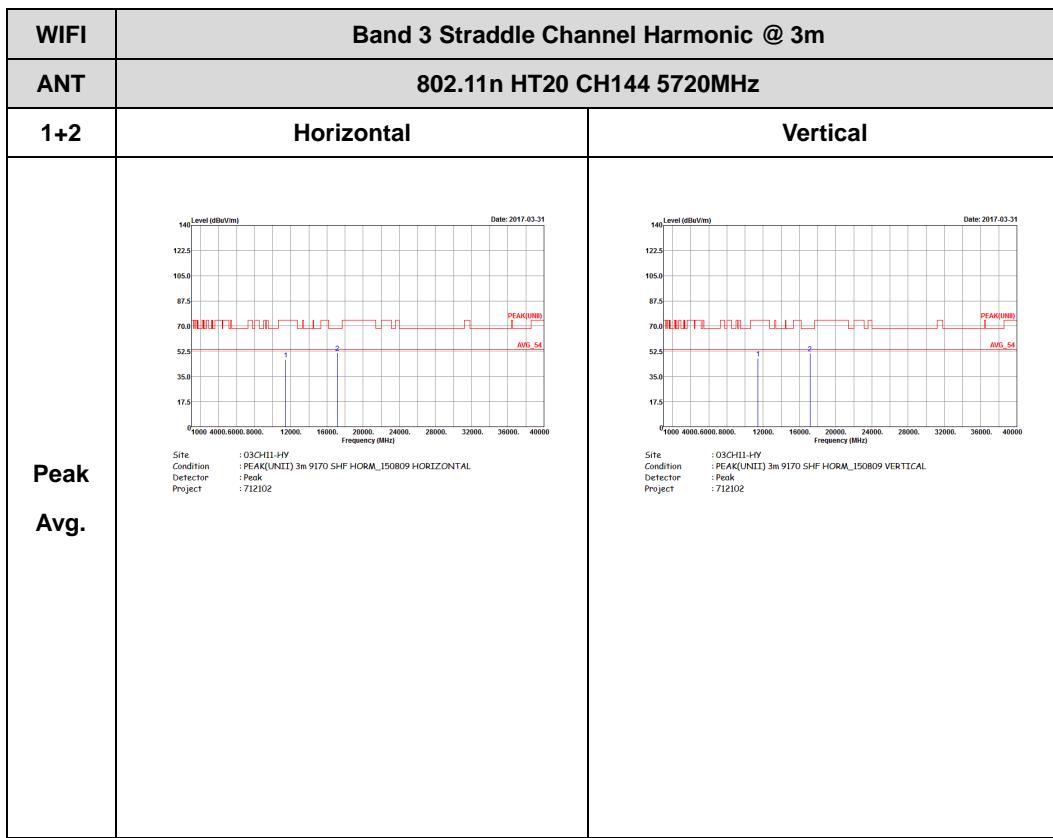
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)



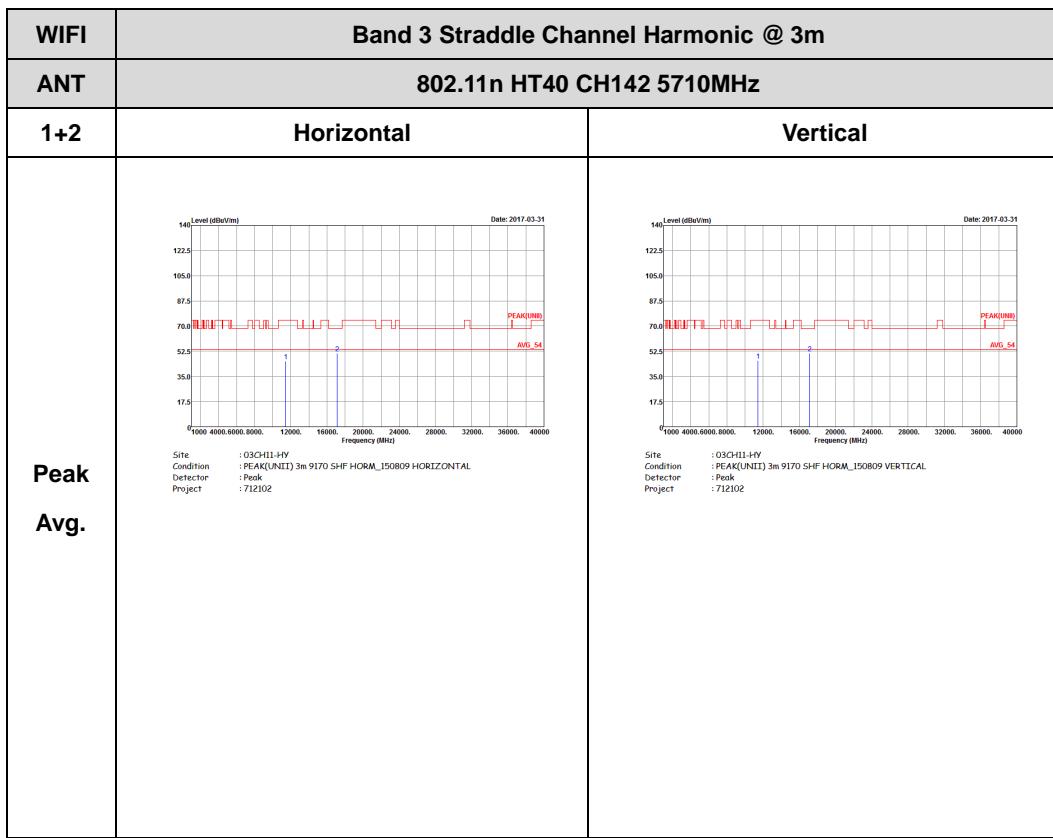


Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)



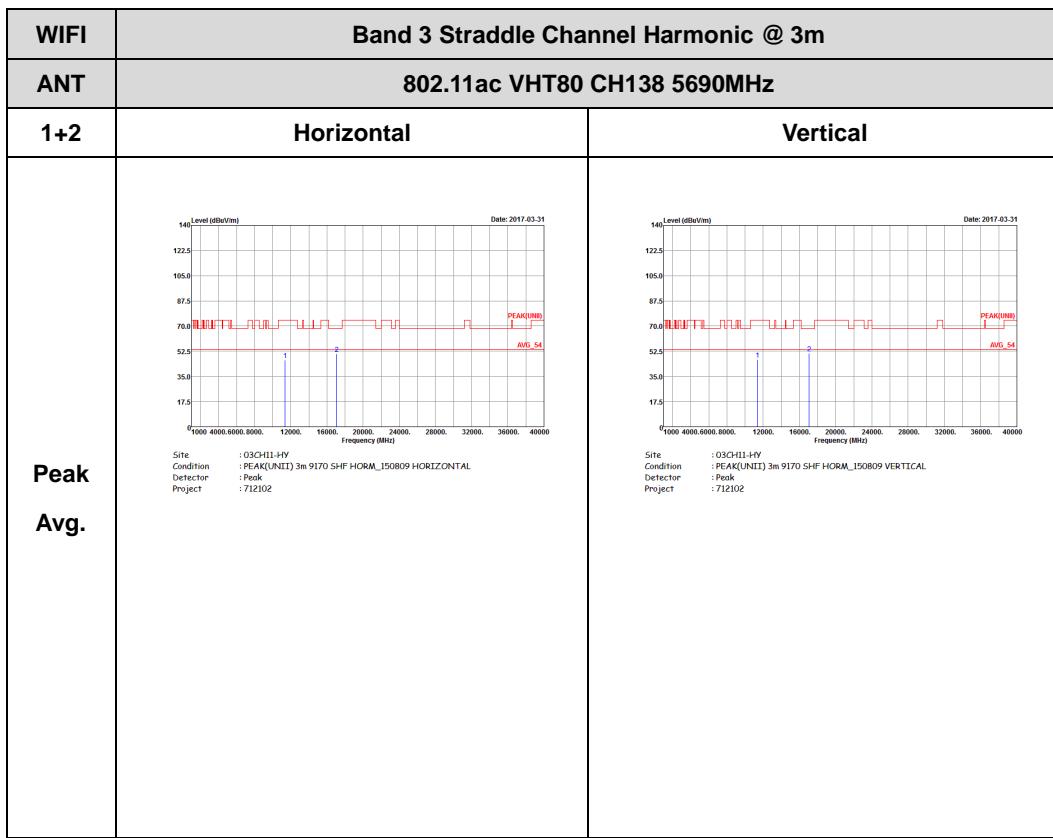


Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)





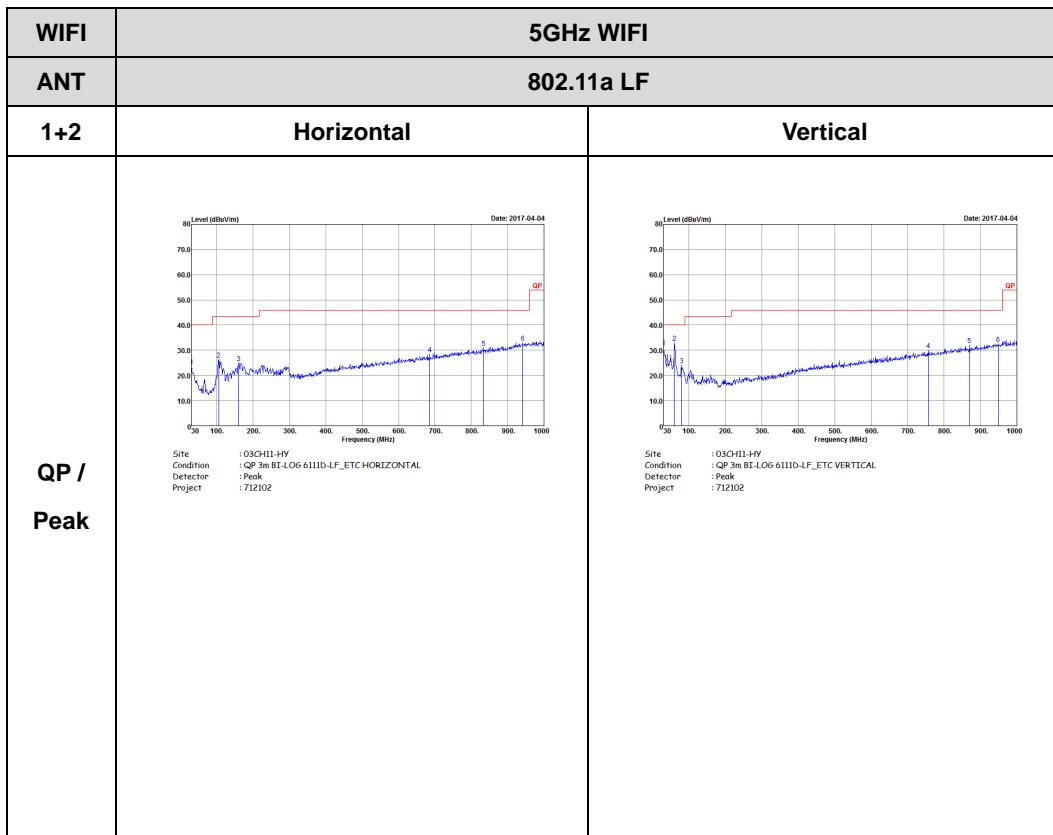
Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)





Emission below 1GHz

5GHz WIFI 802.11a (LF)





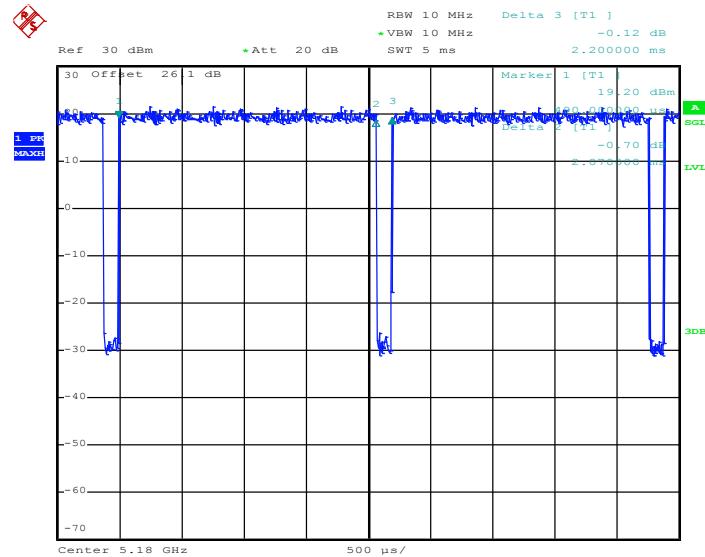
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11a for Ant. 1	94.09	2070.00	0.48	1kHz
1+2	5GHz 802.11n HT20 for Ant. 1	94.15	1930.00	0.52	1kHz
1+2	5GHz 802.11n HT40 for Ant. 1	89.71	942.00	1.06	3kHz
1+2	5GHz 802.11ac VHT80 for Ant. 1	81.69	464.00	2.16	3kHz
1+2	5GHz 802.11a for Ant. 2	94.52	2070.00	0.48	1kHz
1+2	5GHz 802.11n HT20 for Ant. 2	93.69	1930.00	0.52	1kHz
1+2	5GHz 802.11n HT40 for Ant. 2	90.03	948.00	1.05	3kHz
1+2	5GHz 802.11ac VHT80 for Ant. 2	79.86	460.00	2.17	3kHz



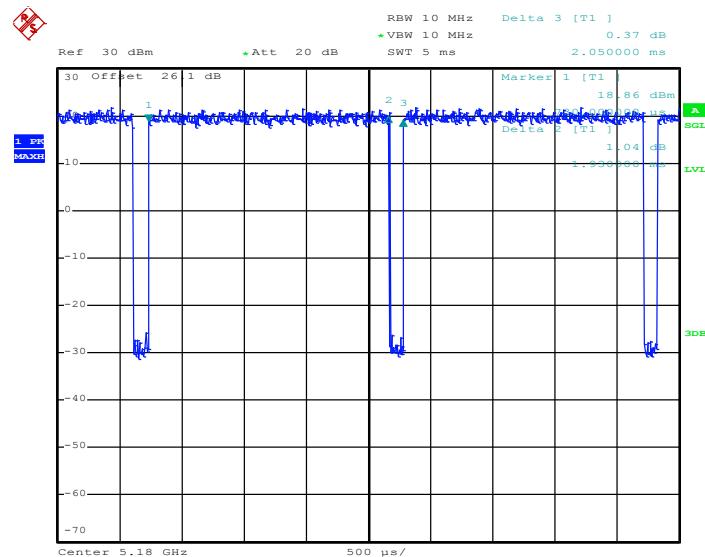
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802.11a



Date: 27.MAR.2017 18:30:54

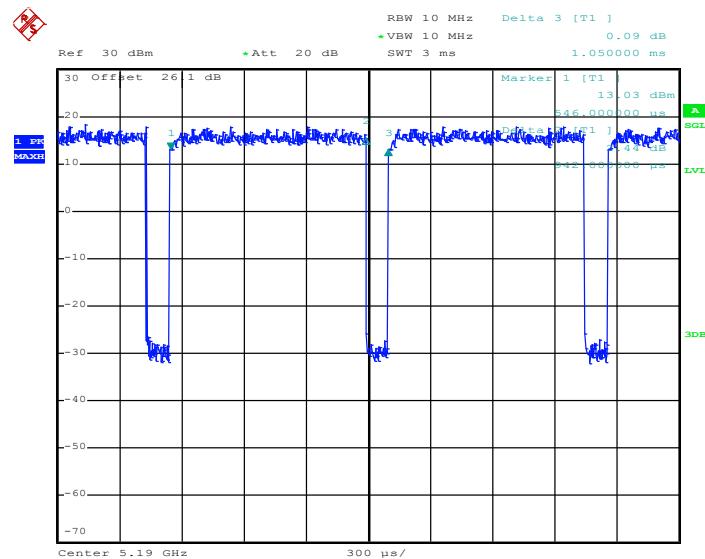
5GHz 802.11n HT20



Date: 27.MAR.2017 18:31:44

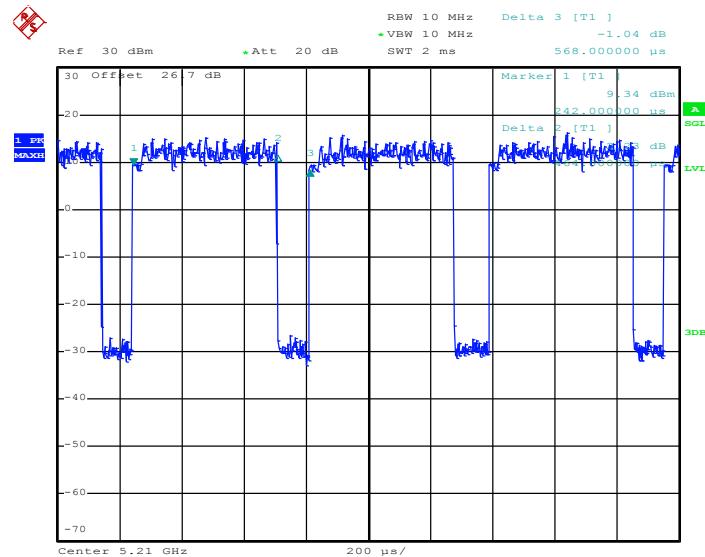


5GHz 802.11n HT40



Date: 27.MAR.2017 18:25:53

5GHz 802.11ac VHT80

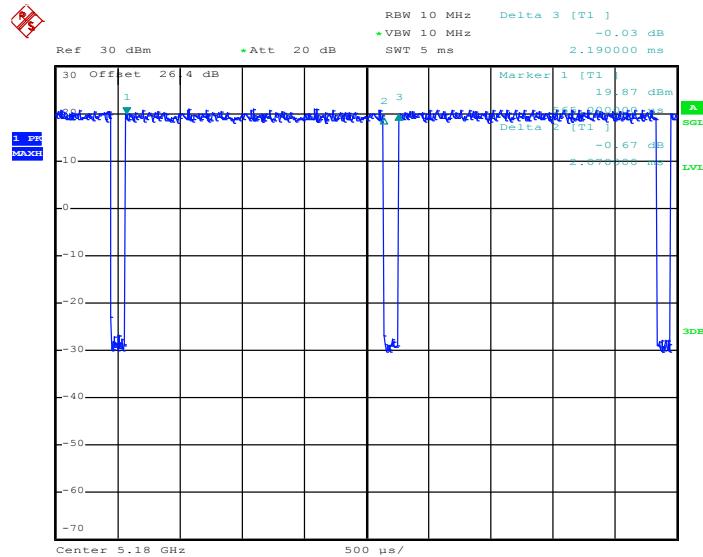


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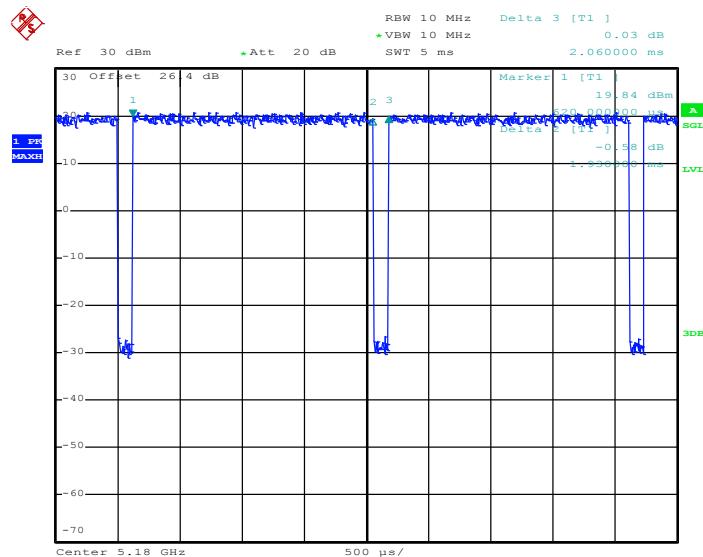
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802.11a



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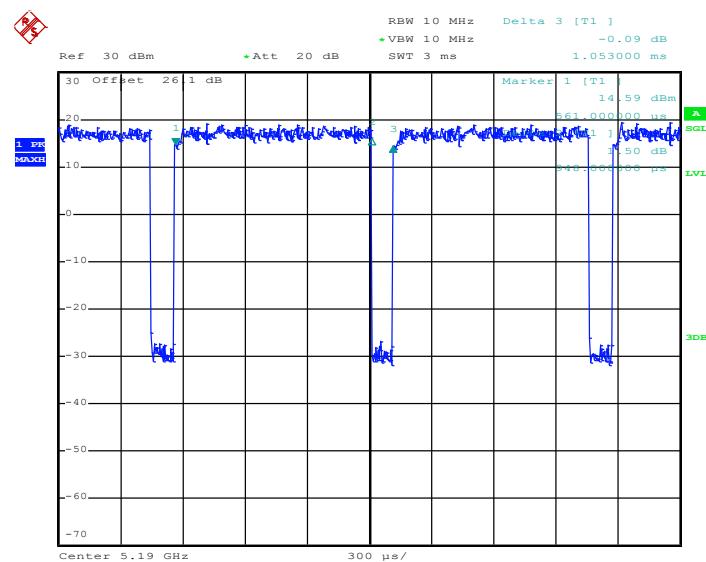
5GHz 802.11n HT20



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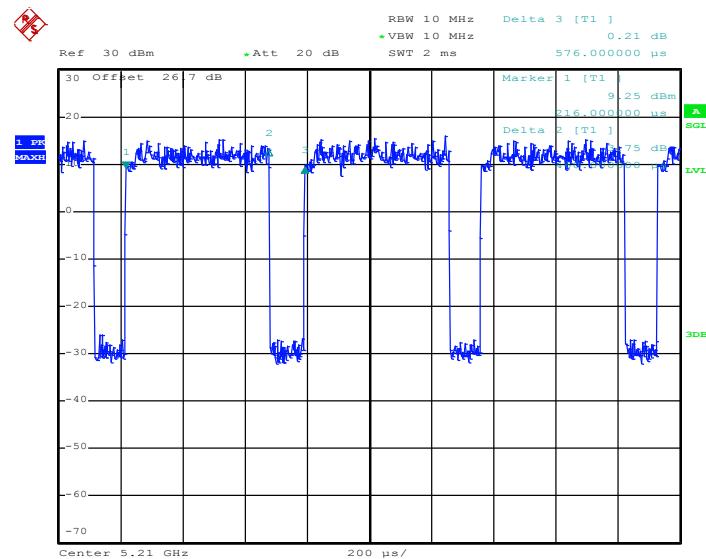


5GHz 802.11n HT40



Date: 27.MAR.2017 18:23:36

5GHz 802.11ac VHT80



Date: 28.MAR.2017 18:33:27