FCC RADIO TEST REPORT

FCC ID	:	**HLZA9001**
Equipment	:	**Tablet Computer**
Brand Name	:	**Acer**
Model Name	:	**A9001**
Marketing Name	:	**Acer Enduro T1 ET108-11A**
Applicant	:	**Acer Incorporated** **8F ,88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan, R.O.C**
Manufacturer	:	**Acer Incorporated** **8F ,88, Sec.1 Xintai 5th Rd. Xizhi, New Taipei City 221, Taiwan, R.O.C**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 30, 2019 and testing was started from Dec. 06, 2019 and completed on Dec. 23, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Louis Wu

Approved by: Louis Wu

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

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History of this test report

Report No.	Version	Description	Issued Date
FR9N3012E	01	Initial issue of report	Jan. 10, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.30 dB at 5356.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 11.31 dB at 0.150 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang
Report Producer: Yimin Ho

1 General Description

1.1 Product Feature of Equipment Under Test

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

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

Sample Information		
SKU	**function**	**Remark**
SKU 1	NFC + BT + Wifi +GPS	
SKU 2	NFC + BT + Wifi + GPS + Barcode scanner	SKU 1 mainboard with additional barcode scanner

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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.**
	03CH16-HY

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- 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 modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20	**MCS0**
802.11n HT40	**MCS0**
802.11ac VHT20 (Covered by HT20)	**MCS0**
802.11ac VHT40 (Covered by HT40)	**MCS0**
802.11ac VHT80	**MCS0**

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Camera Recorder (Rear) + NFC On + Earphone + SD Card + Battery + Adapter 1 for SKU 1
Remark: For Radiated Test Cases, the tests were performed with Adapter 1 and SKU 1.	

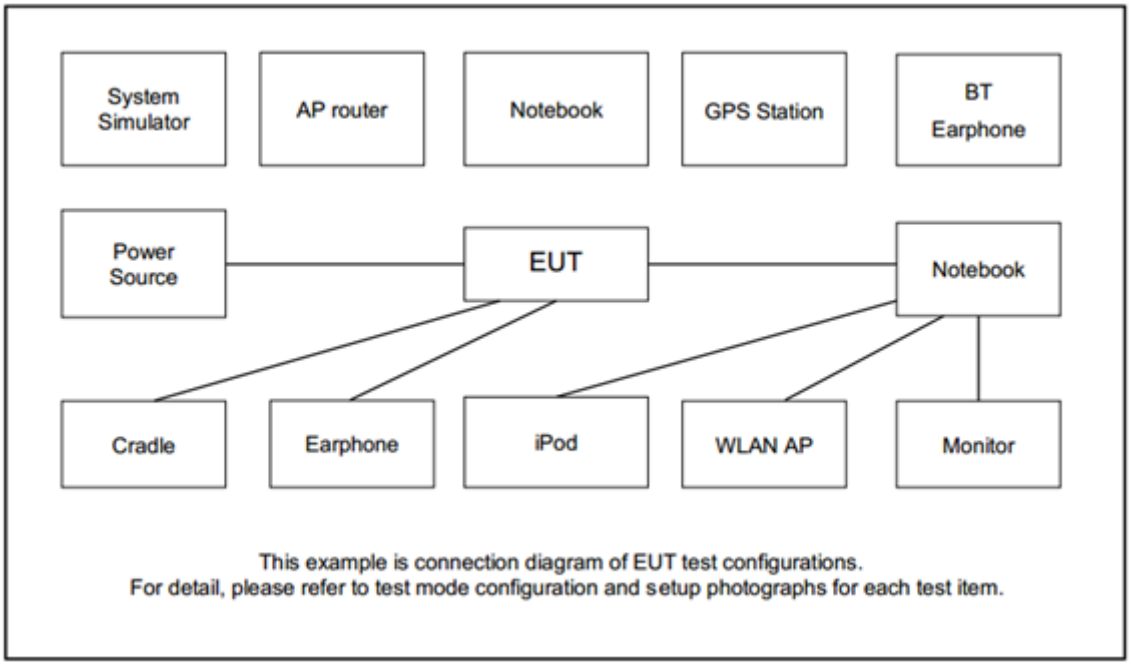
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
3.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

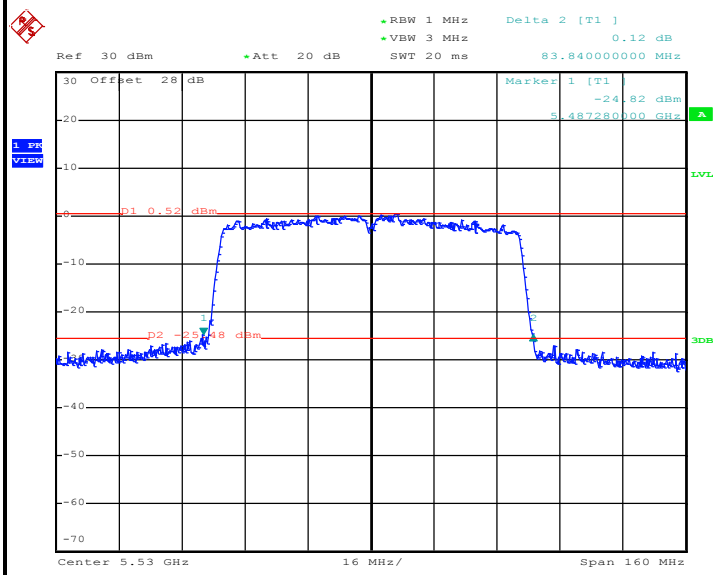
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup

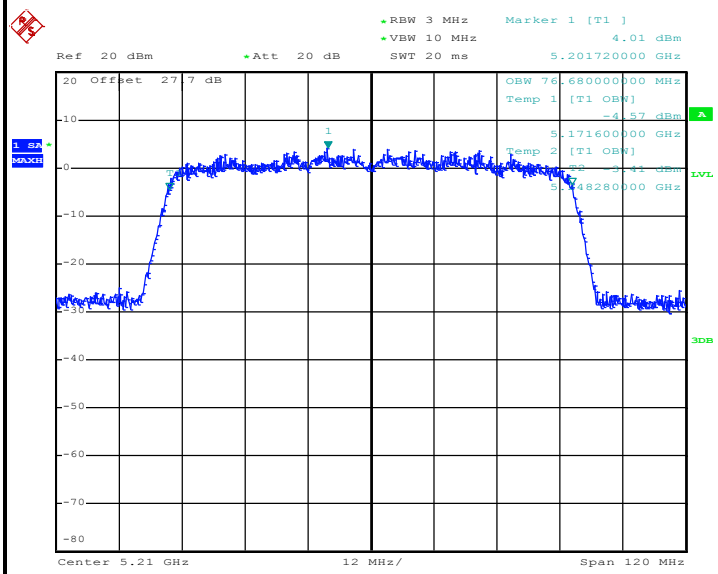
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

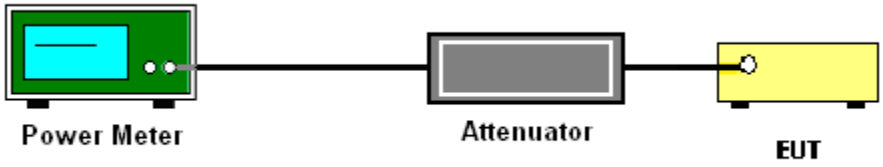
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

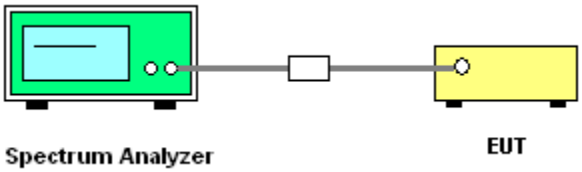
Method PM-G (Measurement using an RF average power meter):

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

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

3.2.4 Test Setup





3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

 # Method SA-3 #

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

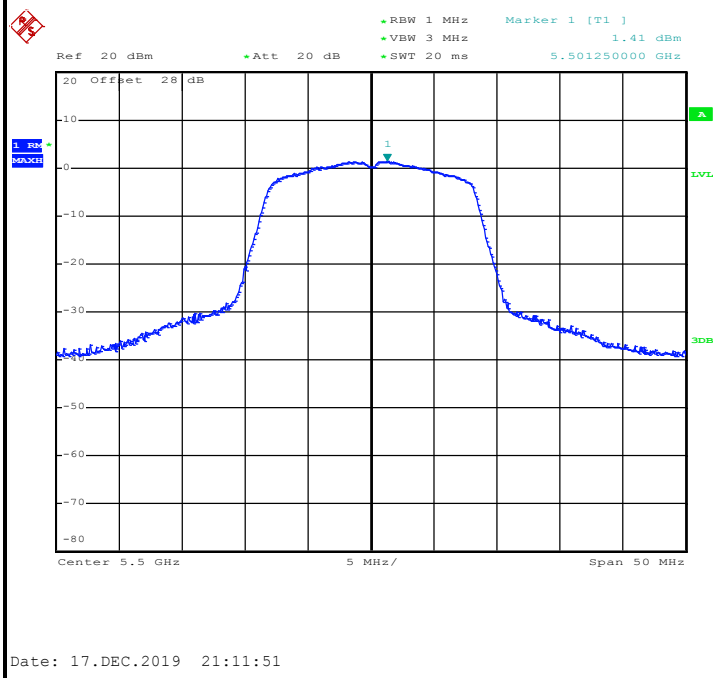
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup

3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

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

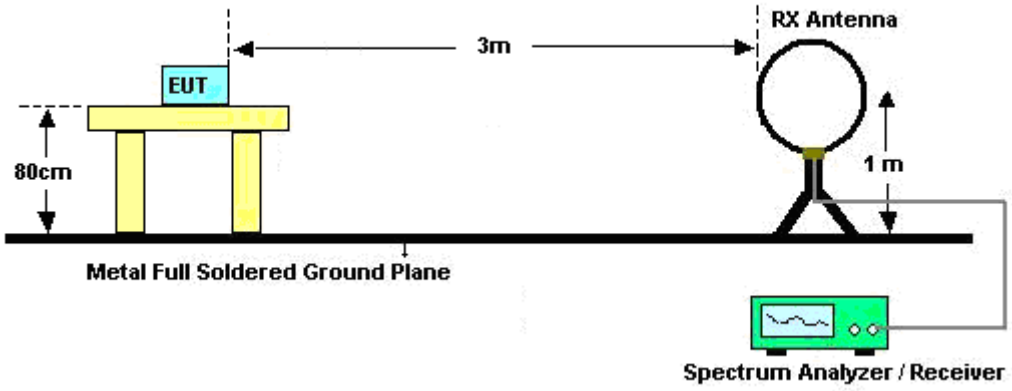
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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

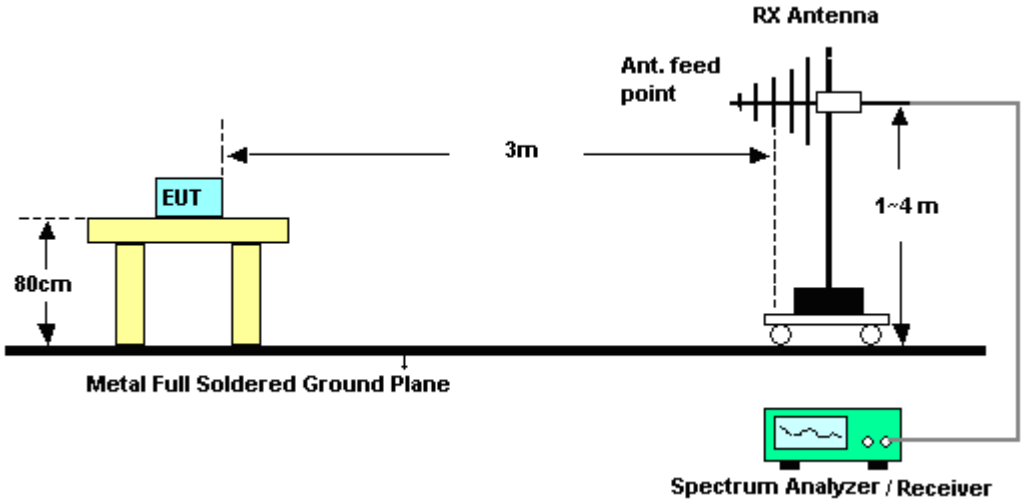
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified,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

3.4.4 Test Setup

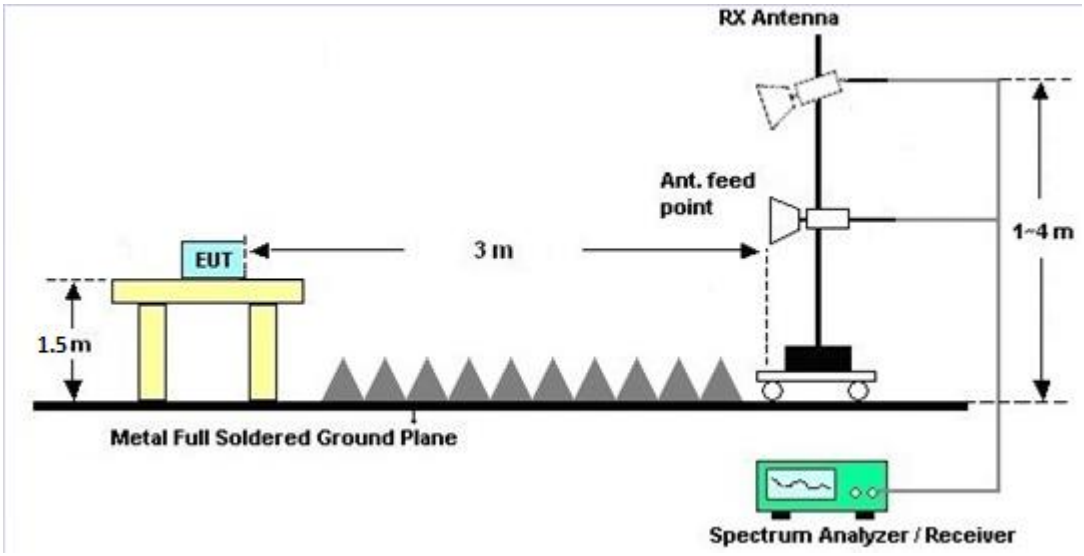
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

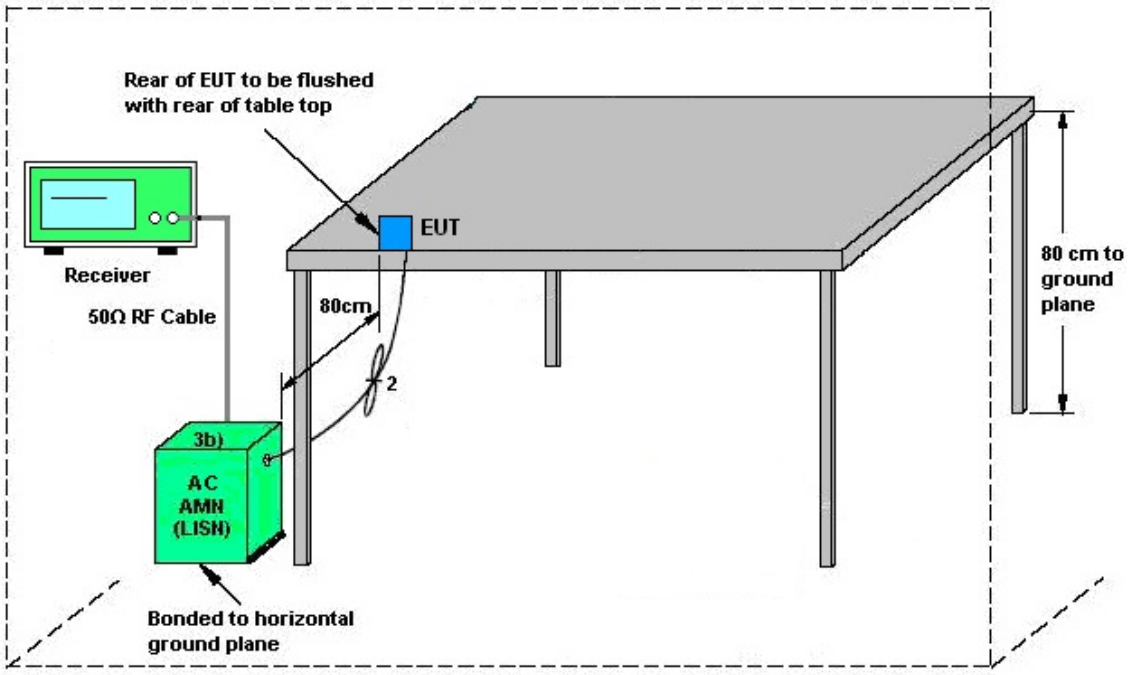
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Dec. 11, 2019~ Dec. 18, 2019	Jan. 10, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 13, 2019	Dec. 11, 2019~ Dec. 18, 2019	Oct. 12, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 19, 2019	Dec. 11, 2019~ Dec. 18, 2019	Sep. 18, 2020	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 01. 2019	Dec. 11, 2019~ Dec. 18, 2019	Sep. 30. 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800054001	1GHz~18GHz	May. 19, 2019	Dec. 11, 2019~ Dec. 18, 2019	May. 18, 2020	Radiation (03CH16-HY)
Preamplifier	EMEC	EMC184045B	980192	18GHz ~40GHz	Jul. 10, 2019	Dec. 11, 2019~ Dec. 18, 2019	Jul. 09, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 11, 2019	Dec. 11, 2019~ Dec. 18, 2019	Dec.10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY55420170	20MHz~8.4GHz	Mar. 08, 2019	Dec. 11, 2019~ Dec. 18, 2019	Mar. 07, 2020	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 29, 2019	Dec. 11, 2019~ Dec. 18, 2019	Apr. 28, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 30, 2019	Dec. 11, 2019~ Dec. 18, 2019	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 30, 2019	Dec. 11, 2019~ Dec. 18, 2019	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 30, 2019	Dec. 11, 2019~ Dec. 18, 2019	Aug. 29, 2020	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP161243	N/A	Jun 17, 2019	Dec. 11, 2019~ Dec. 18, 2019	Jun 16, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Dec. 11, 2019~ Dec. 18, 2019	N/A	Radiation (03CH16-HY)
Hygrometer	Testo	608-H2	41410069	N/A	Jun. 17, 2019	Dec. 06, 2019~ Dec. 18, 2019	Jun. 16, 2020	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO12	10MHz~6GHz	Dec. 27, 2018	Dec. 06, 2019~ Dec. 18, 2019	Dec. 26, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Aug. 14, 2019	Dec. 06, 2019~ Dec. 18, 2019	Aug. 13, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Dec. 06, 2019~ Dec. 18, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 23, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Dec. 23, 2019	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Dec. 23, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Dec. 23, 2019	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Dec. 23, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Dec. 23, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Dec. 23, 2019	Dec. 30, 2019	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.9**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kathy Chen / Kai Liao	Temperature:	21~25	°C
Test Date:	2019/12/6 ~ 12/18	Relative Humidity:	51~54	%

Report Number : FR9N3012E

TEST RESULTS DATA
26dB and 99% OBW

Band I single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	16.50	-	21.70	-	-		22.17	-		
11a	6Mbps	1	44	5220	16.50	-	21.60	-	-		22.17	-		
11a	6Mbps	1	48	5240	16.45	-	21.40	-	-		22.16	-		
HT20	MCS0	1	36	5180	17.65	-	21.50	-	-		22.47	-		
HT20	MCS0	1	44	5220	17.60	-	21.60	-	-		22.46	-		
HT20	MCS0	1	48	5240	17.65	-	21.60	-	-		22.47	-		
HT40	MCS0	1	38	5190	36.30	-	41.58	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.10	-	41.40	-	-		23.01	-		
VHT80	MCS0	1	42	5210	76.68	-	82.24	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	10.20	-		24.00	-	2.36	-		Pass
11a	6Mbps	1	44	5220	10.00	-		24.00	-	2.36	-		Pass
11a	6Mbps	1	48	5240	10.00	-		24.00	-	2.36	-		Pass
HT20	MCS0	1	36	5180	10.10	-		24.00	-	2.36	-		Pass
HT20	MCS0	1	44	5220	9.80	-		24.00	-	2.36	-		Pass
HT20	MCS0	1	48	5240	9.80	-		24.00	-	2.36	-		Pass
HT40	MCS0	1	38	5190	9.40	-		24.00	-	2.36	-		Pass
HT40	MCS0	1	46	5230	9.10	-		24.00	-	2.36	-		Pass
VHT20	MCS0	1	36	5180	9.00	-		24.00	-	2.36	-		Pass
VHT20	MCS0	1	44	5220	8.90	-		24.00	-	2.36	-		Pass
VHT20	MCS0	1	48	5240	9.20	-		24.00	-	2.36	-		Pass
VHT40	MCS0	1	38	5190	8.10	-		24.00	-	2.36	-		Pass
VHT40	MCS0	1	46	5230	8.20	-		24.00	-	2.36	-		Pass
VHT80	MCS0	1	42	5210	6.40	-		24.00	-	2.36	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	1.17	-		11.00	-	2.36	-		Pass
11a	6Mbps	1	44	5220	1.04	-		11.00	-	2.36	-		Pass
11a	6Mbps	1	48	5240	1.23	-		11.00	-	2.36	-		Pass
HT20	MCS0	1	36	5180	1.17	-		11.00	-	2.36	-		Pass
HT20	MCS0	1	44	5220	1.08	-		11.00	-	2.36	-		Pass
HT20	MCS0	1	48	5240	1.14	-		11.00	-	2.36	-		Pass
HT40	MCS0	1	38	5190	-2.97	-		11.00	-	2.36	-		Pass
HT40	MCS0	1	46	5230	-2.96	-		11.00	-	2.36	-		Pass
VHT80	MCS0	1	42	5210	-9.26	-		11.00	-	2.36	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.50	-	21.60	-	23.17	-	29.17	-	23.98	-	
11a	6Mbps	1	60	5300	16.60	-	21.50	-	23.20	-	29.20	-	23.98	-	
11a	6Mbps	1	64	5320	16.85	-	21.70	-	23.27	-	29.27	-	23.98	-	
HT20	MCS0	1	52	5260	17.60	-	21.70	-	23.46	-	29.46	-	23.98	-	
HT20	MCS0	1	60	5300	17.60	-	21.80	-	23.46	-	29.46	-	23.98	-	
HT20	MCS0	1	64	5320	17.70	-	21.60	-	23.48	-	29.48	-	23.98	-	
HT40	MCS0	1	54	5270	36.30	-	41.58	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.30	-	41.58	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.68	-	83.00	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	10.40	-		23.98	-	2.25	-	30	Pass
11a	6Mbps	1	60	5300	10.50	-		23.98	-	2.25	-	30	Pass
11a	6Mbps	1	64	5320	10.40	-		23.98	-	2.25	-	30	Pass
HT20	MCS0	1	52	5260	10.10	-		23.98	-	2.25	-	30	Pass
HT20	MCS0	1	60	5300	10.30	-		23.98	-	2.25	-	30	Pass
HT20	MCS0	1	64	5320	10.20	-		23.98	-	2.25	-	30	Pass
HT40	MCS0	1	54	5270	9.20	-		23.98	-	2.25	-	30	Pass
HT40	MCS0	1	62	5310	9.50	-		23.98	-	2.25	-	30	Pass
VHT20	MCS0	1	52	5260	9.20	-		23.98	-	2.25	-	30	Pass
VHT20	MCS0	1	60	5300	9.30	-		23.98	-	2.25	-	30	Pass
VHT20	MCS0	1	64	5320	9.10	-		23.98	-	2.25	-	30	Pass
VHT40	MCS0	1	54	5270	8.20	-		23.98	-	2.25	-	30	Pass
VHT40	MCS0	1	62	5310	8.40	-		23.98	-	2.25	-	30	Pass
VHT80	MCS0	1	58	5290	8.80	-		23.98	-	2.25	-	30	Pass

TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	1.06	-		11.00	-	2.25	-		Pass
11a	6Mbps	1	60	5300	1.19	-		11.00	-	2.25	-		Pass
11a	6Mbps	1	64	5320	0.82	-		11.00	-	2.25	-		Pass
HT20	MCS0	1	52	5260	0.95	-		11.00	-	2.25	-		Pass
HT20	MCS0	1	60	5300	1.02	-		11.00	-	2.25	-		Pass
HT20	MCS0	1	64	5320	0.92	-		11.00	-	2.25	-		Pass
HT40	MCS0	1	54	5270	-3.18	-		11.00	-	2.25	-		Pass
HT40	MCS0	1	62	5310	-2.85	-		11.00	-	2.25	-		Pass
VHT80	MCS0	1	58	5290	-7.23	-		11.00	-	2.25	-		Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.55	-	21.90	-	23.19	-	29.19	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.60	-	21.75	-	23.20	-	29.20	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.60	-	21.90	-	23.20	-	29.20	-	23.98	-	----	----
HT20	MCS0	1	100	5500	17.65	-	21.80	-	23.47	-	29.47	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.70	-	22.00	-	23.48	-	29.48	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.65	-	22.00	-	23.47	-	29.47	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.30	-	41.58	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.30	-	41.76	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.50	-	42.30	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	76.44	-	83.84	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.56	-	83.84	-	23.98	-	30.00	-	23.98	-	----	----

Band III straddle channel single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.30	-	16.10	-	22.24	-	28.24	-	23.07	-	2.55	-
HT20	MCS0	1	144	5720	13.85	-	16.10	-	22.41	-	28.41	-	23.07	-	2.55	-
HT40	MCS0	1	142	5710	33.20	-	36.06	-	23.98	-	30.00	-	23.98	-	2.55	-
VHT80	MCS0	1	138	5690	73.40	-	81.08	-	23.98	-	30.00	-	23.98	-	2.55	-

Report Number : FR9N3012E

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	10.40	-		23.98	-	2.50	-	30	Pass
11a	6Mbps	1	116	5580	9.80	-		23.98	-	2.50	-	30	Pass
11a	6Mbps	1	140	5700	10.00	-		23.98	-	2.50	-	30	Pass
HT20	MCS0	1	100	5500	10.70	-		23.98	-	2.50	-	30	Pass
HT20	MCS0	1	116	5580	9.80	-		23.98	-	2.50	-	30	Pass
HT20	MCS0	1	140	5700	9.80	-		23.98	-	2.50	-	30	Pass
HT40	MCS0	1	102	5510	9.30	-		23.98	-	2.50	-	30	Pass
HT40	MCS0	1	110	5550	9.00	-		23.98	-	2.50	-	30	Pass
HT40	MCS0	1	134	5670	8.40	-		23.98	-	2.50	-	30	Pass
VHT20	MCS0	1	100	5500	9.20	-		23.98	-	2.50	-	30	Pass
VHT20	MCS0	1	116	5580	8.70	-		23.98	-	2.50	-	30	Pass
VHT20	MCS0	1	140	5700	8.80	-		23.98	-	2.50	-	30	Pass
VHT40	MCS0	1	102	5510	8.30	-		23.98	-	2.50	-	30	Pass
VHT40	MCS0	1	110	5550	8.00	-		23.98	-	2.50	-	30	Pass
VHT40	MCS0	1	134	5670	7.40	-		23.98	-	2.50	-	30	Pass
VHT80	MCS0	1	106	5530	8.40	-		23.98	-	2.50	-	30	Pass
VHT80	MCS0	1	122	5610	8.80	-		23.98	-	2.50	-	30	Pass

FCC Band III straddle channel single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	9.50	-		23.07	-	2.50	-	30	Pass
HT20	MCS0	1	144	5720	9.50	-		23.07	-	2.50	-	30	Pass
HT40	MCS0	1	142	5710	8.70	-		23.98	-	2.50	-	30	Pass
VHT20	MCS0	1	144	5720	8.60	-		23.07	-	2.50	-	30	Pass
VHT40	MCS0	1	142	5710	7.80	-		23.98	-	2.50	-	30	Pass
VHT80	MCS0	1	138	5690	8.70	-		23.98	-	2.50	-	30	Pass

TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	1.41	-		11.00	-	2.50	-		Pass
11a	6Mbps	1	116	5580	1.11	-		11.00	-	2.50	-		Pass
11a	6Mbps	1	140	5700	0.62	-		11.00	-	2.50	-		Pass
HT20	MCS0	1	100	5500	1.39	-		11.00	-	2.50	-		Pass
HT20	MCS0	1	116	5580	0.87	-		11.00	-	2.50	-		Pass
HT20	MCS0	1	140	5700	0.70	-		11.00	-	2.50	-		Pass
HT40	MCS0	1	102	5510	-2.87	-		11.00	-	2.50	-		Pass
HT40	MCS0	1	110	5550	-2.89	-		11.00	-	2.50	-		Pass
HT40	MCS0	1	134	5670	-3.72	-		11.00	-	2.50	-		Pass
VHT80	MCS0	1	106	5530	-7.11	-		11.00	-	2.50	-		Pass
VHT80	MCS0	1	122	5610	-6.42	-		11.00	-	2.50	-		Pass

Band III straddle channel single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	0.55	-		11.00	-	2.50	-		Pass
HT20	MCS0	1	144	5720	0.59	-		11.00	-	2.50	-		Pass
HT40	MCS0	1	142	5710	-3.54	-		11.00	-	2.50	-		Pass
VHT80	MCS0	1	138	5690	-6.81	-		11.00	-	2.50	-		Pass

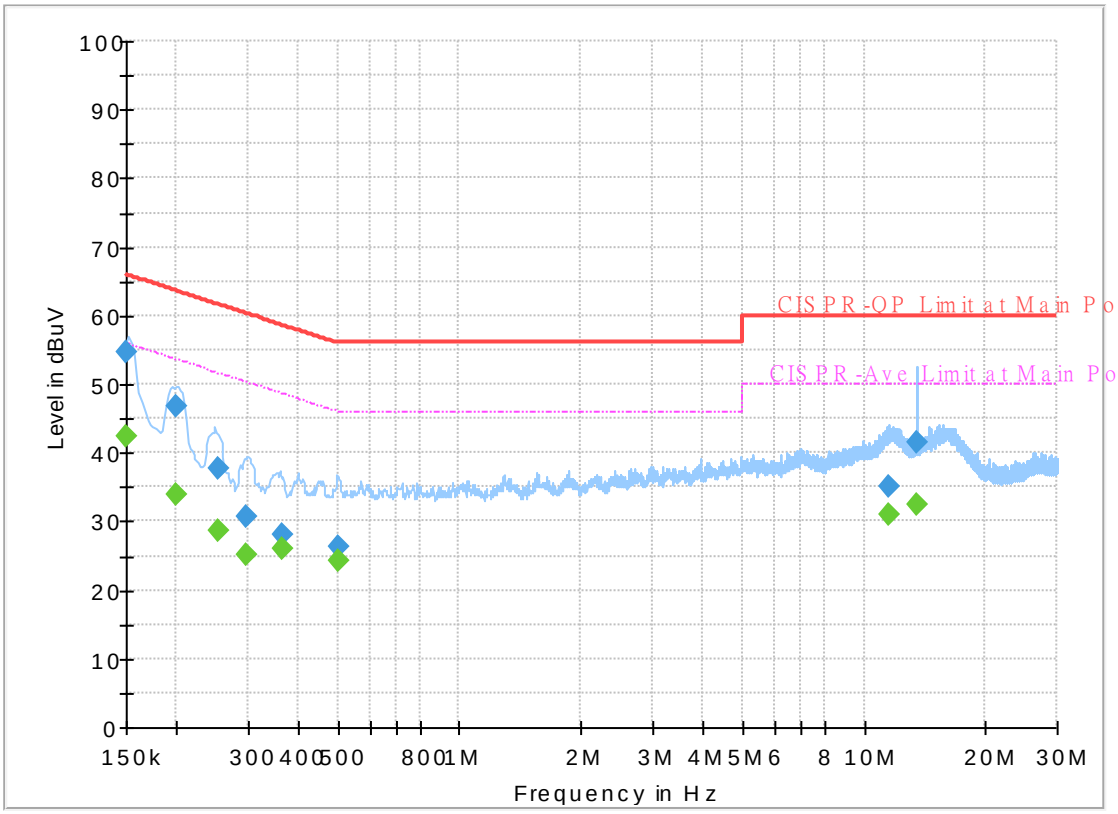
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	22~25℃
		Relative Humidity :	45~51%

EUT Information

Report NO :	9N3012
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



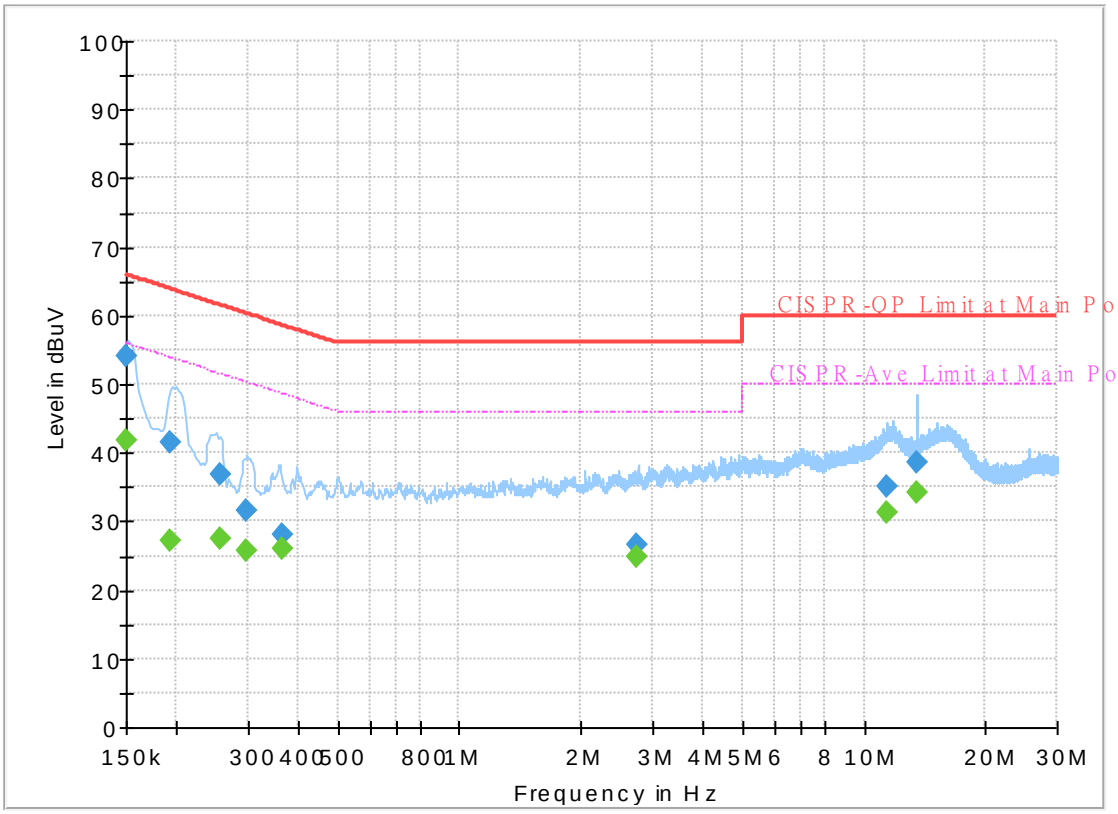
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	42.25	56.00	13.75	L1	OFF	19.5
0.150000	54.69	---	66.00	11.31	L1	OFF	19.5
0.198330	---	33.90	53.68	19.78	L1	OFF	19.5
0.198330	46.71	---	63.68	16.97	L1	OFF	19.5
0.253230	---	28.71	51.65	22.94	L1	OFF	19.5
0.253230	37.78	---	61.65	23.87	L1	OFF	19.5
0.295980	---	25.27	50.36	25.09	L1	OFF	19.5
0.295980	30.63	---	60.36	29.73	L1	OFF	19.5
0.363750	---	25.99	48.64	22.65	L1	OFF	19.5
0.363750	28.07	---	58.64	30.57	L1	OFF	19.5
0.502170	---	24.23	46.00	21.77	L1	OFF	19.5
0.502170	26.33	---	56.00	29.67	L1	OFF	19.5
11.528250	---	30.98	50.00	19.02	L1	OFF	19.9
11.528250	35.03	---	60.00	24.97	L1	OFF	19.9
13.560000	---	32.50	50.00	17.50	L1	OFF	20.0
13.560000	41.46	---	60.00	18.54	L1	OFF	20.0

EUT Information

Report NO :	9N3012
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	41.78	56.00	14.22	N	OFF	19.5
0.150000	54.23	---	66.00	11.77	N	OFF	19.5
0.192210	---	27.23	53.94	26.71	N	OFF	19.5
0.192210	41.61	---	63.94	22.33	N	OFF	19.5
0.255570	---	27.49	51.57	24.08	N	OFF	19.5
0.255570	36.71	---	61.57	24.86	N	OFF	19.5
0.298050	---	25.72	50.30	24.58	N	OFF	19.5
0.298050	31.64	---	60.30	28.66	N	OFF	19.5
0.363750	---	26.16	48.64	22.48	N	OFF	19.5
0.363750	28.06	---	58.64	30.58	N	OFF	19.5
2.753250	---	24.88	46.00	21.12	N	OFF	19.6
2.753250	26.73	---	56.00	29.27	N	OFF	19.6
11.447340	---	31.22	50.00	18.78	N	OFF	20.0
11.447340	35.17	---	60.00	24.83	N	OFF	20.0
13.560000	---	34.16	50.00	15.84	N	OFF	20.1
13.560000	38.73	---	60.00	21.27	N	OFF	20.1

Appendix C. Radiated Spurious Emission

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

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5101.4	52.76	-21.24	74	38.42	31.8	12.26	29.72	207	173	P	H
		5107.64	42.6	-11.4	54	28.27	31.78	12.27	29.72	207	173	A	H
	*	5180	100.46	-	-	86.24	31.58	12.36	29.72	207	173	P	H
	*	5180	93.23	-	-	79.01	31.58	12.36	29.72	207	173	A	H
													H
													H
		5146.38	54.69	-19.31	74	40.38	31.71	12.32	29.72	100	314	P	V
		5146.12	43.53	-10.47	54	29.22	31.71	12.32	29.72	100	314	A	V
	*	5180	104.12	-	-	89.9	31.58	12.36	29.72	100	314	P	V
	*	5180	96.87	-	-	82.65	31.58	12.36	29.72	100	314	A	V
													V
													V
802.11a CH 44 5220MHz		5118.04	52.69	-21.31	74	38.37	31.76	12.28	29.72	186	173	P	H
		5095.42	42.32	-11.68	54	28	31.79	12.25	29.72	186	173	A	H
	*	5220	100.47	-	-	86.36	31.42	12.41	29.72	186	173	P	H
	*	5220	93.35	-	-	79.24	31.42	12.41	29.72	186	173	A	H
		5414.64	52.11	-21.89	74	37.77	31.46	12.61	29.73	186	173	P	H
		5446.84	41.46	-12.54	54	26.94	31.59	12.67	29.74	186	173	A	H
		5082.94	53.46	-20.54	74	39.17	31.77	12.23	29.71	102	266	P	V
		5148.98	42.85	-11.15	54	28.55	31.7	12.32	29.72	102	266	A	V
	*	5220	103.97	-	-	89.86	31.42	12.41	29.72	102	266	P	V
	*	5220	96.25	-	-	82.14	31.42	12.41	29.72	102	266	A	V
		5365.92	51.86	-22.14	74	37.78	31.26	12.55	29.73	102	266	P	V
		5350.24	41.61	-12.39	54	27.61	31.2	12.53	29.73	102	266	A	V

802.11a CH 48 5240MHz		5106.6	52.5	-21.5	74	38.17	31.79	12.26	29.72	161	175	P	H
		5139.1	42.28	-11.72	54	27.97	31.72	12.31	29.72	161	175	A	H
	*	5240	101.17	-	-	87.12	31.34	12.43	29.72	161	175	P	H
	*	5240	93.99	-	-	79.94	31.34	12.43	29.72	161	175	A	H
		5399.24	51.63	-22.37	74	37.38	31.4	12.58	29.73	161	175	P	H
		5445.16	41.36	-12.64	54	26.85	31.58	12.67	29.74	161	175	A	H
		5101.92	53.35	-20.65	74	39.01	31.8	12.26	29.72	117	267	P	V
		5131.04	42.51	-11.49	54	28.19	31.74	12.3	29.72	117	267	A	V
	*	5240	103.9	-	-	89.85	31.34	12.43	29.72	117	267	P	V
	*	5240	96.59	-	-	82.54	31.34	12.43	29.72	117	267	A	V
		5450.2	52.16	-21.84	74	37.62	31.6	12.68	29.74	117	267	P	V
		5367.32	41.65	-12.35	54	27.56	31.27	12.55	29.73	117	267	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	47.7	-20.5	68.2	48.18	39.64	19.17	59.29	100	0	P	H
		15540	46.37	-27.63	74	44	37.94	24.38	59.95	100	0	P	H
													H
													H
		10360	48.3	-19.9	68.2	48.78	39.64	19.17	59.29	100	0	P	V
		15540	47.15	-26.85	74	44.78	37.94	24.38	59.95	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	47.63	-20.57	68.2	47.79	39.88	19.29	59.33	100	0	P	H
		15660	45.94	-28.06	74	43.98	37.46	24.38	59.88	100	0	P	H
													H
													H
		10440	48.06	-20.14	68.2	48.22	39.88	19.29	59.33	100	0	P	V
		15660	45.03	-28.97	74	43.07	37.46	24.38	59.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	48.25	-19.95	68.2	48.29	39.96	19.35	59.35	100	0	P	H
		15720	47.65	-26.35	74	45.82	37.3	24.37	59.84	100	0	P	H
													H
													H
		10480	47.97	-20.23	68.2	48.01	39.96	19.35	59.35	100	0	P	V
		15720	45.92	-28.08	74	44.09	37.3	24.37	59.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5138.84	53.32	-20.68	74	39.01	31.72	12.31	29.72	111	174	P	H
		5147.68	42.97	-11.03	54	28.67	31.7	12.32	29.72	111	174	A	H
	*	5180	102.51	-	-	88.29	31.58	12.36	29.72	111	174	P	H
	*	5180	95.33	-	-	81.11	31.58	12.36	29.72	111	174	A	H
802.11n													H
HT20													H
CH 36		5147.94	53.79	-20.21	74	39.49	31.7	12.32	29.72	101	185	P	V
5180MHz		5143.78	43.58	-10.42	54	29.28	31.71	12.31	29.72	101	185	A	V
	*	5180	103.52	-	-	89.3	31.58	12.36	29.72	101	185	P	V
	*	5180	96.35	-	-	82.13	31.58	12.36	29.72	101	185	A	V
													V
													V
		5120.64	53.21	-20.79	74	38.89	31.76	12.28	29.72	101	174	P	H
		5123.24	42.67	-11.33	54	28.35	31.75	12.29	29.72	101	174	A	H
	*	5220	101.62	-	-	87.51	31.42	12.41	29.72	101	174	P	H
	*	5220	94.42	-	-	80.31	31.42	12.41	29.72	101	174	A	H
802.11n		5366.2	51.66	-22.34	74	37.58	31.26	12.55	29.73	101	174	P	H
HT20		5413.24	41.5	-12.5	54	27.17	31.45	12.61	29.73	101	174	A	H
CH 44		5114.4	53.27	-20.73	74	38.95	31.77	12.27	29.72	103	190	P	V
5220MHz		5135.72	42.75	-11.25	54	28.44	31.73	12.3	29.72	103	190	A	V
	*	5220	103.02	-	-	88.91	31.42	12.41	29.72	103	190	P	V
	*	5220	95.75	-	-	81.64	31.42	12.41	29.72	103	190	A	V
		5358.64	52.32	-21.68	74	38.28	31.23	12.54	29.73	103	190	P	V
		5456.08	41.64	-12.36	54	27.08	31.61	12.69	29.74	103	190	A	V

		5086.58	52.56	-21.44	74	38.27	31.77	12.24	29.72	102	175	P	H
		5148.72	42.56	-11.44	54	28.26	31.7	12.32	29.72	102	175	A	H
	*	5240	101.34	-	-	87.29	31.34	12.43	29.72	102	175	P	H
	*	5240	93.85	-	-	79.8	31.34	12.43	29.72	102	175	A	H
802.11n		5350.52	52.11	-21.89	74	38.11	31.2	12.53	29.73	102	175	P	H
HT20		5430.6	41.89	-12.11	54	27.47	31.52	12.64	29.74	102	175	A	H
CH 48		5045.5	53.34	-20.66	74	39.19	31.68	12.18	29.71	107	187	P	V
5240MHz		5124.28	42.78	-11.22	54	28.46	31.75	12.29	29.72	107	187	A	V
	*	5240	103.06	-	-	89.01	31.34	12.43	29.72	107	187	P	V
	*	5240	95.56	-	-	81.51	31.34	12.43	29.72	107	187	A	V
		5385.52	52.5	-21.5	74	38.32	31.34	12.57	29.73	107	187	P	V
		5399.8	41.73	-12.27	54	27.48	31.4	12.58	29.73	107	187	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	46.72	-21.48	68.2	47.2	39.64	19.17	59.29	100	0	P	H
		15540	45.43	-28.57	74	43.06	37.94	24.38	59.95	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	47.28	-20.92	68.2	47.76	39.64	19.17	59.29	100	0	P	V
5180MHz		15540	45.54	-28.46	74	43.17	37.94	24.38	59.95	100	0	P	V
													V
													V
		10440	46.7	-21.5	68.2	46.86	39.88	19.29	59.33	100	0	P	H
		15660	45.04	-28.96	74	43.08	37.46	24.38	59.88	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	47.24	-20.96	68.2	47.4	39.88	19.29	59.33	100	0	P	V
5220MHz		15660	44.97	-29.03	74	43.01	37.46	24.38	59.88	100	0	P	V
													V
													V
		10480	47.03	-21.17	68.2	47.07	39.96	19.35	59.35	100	0	P	H
		15720	46.78	-27.22	74	44.95	37.3	24.37	59.84	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	47.95	-20.25	68.2	47.99	39.96	19.35	59.35	100	0	P	V
5240MHz		15720	46.42	-27.58	74	44.59	37.3	24.37	59.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.76	55.89	-18.11	74	41.59	31.7	12.32	29.72	107	171	P	H
		5150	47.94	-6.06	54	33.64	31.7	12.32	29.72	107	171	A	H
	*	5190	98.28	-	-	84.08	31.54	12.38	29.72	107	171	P	H
	*	5190	90.82	-	-	76.62	31.54	12.38	29.72	107	171	A	H
802.11n		5440.68	51.81	-22.19	74	37.33	31.56	12.66	29.74	107	171	P	H
HT40		5440.4	43.23	-10.77	54	28.75	31.56	12.66	29.74	107	171	A	H
CH 38		5149.5	58.1	-15.9	74	43.8	31.7	12.32	29.72	100	255	P	V
5190MHz		5150	50.49	-3.51	54	36.19	31.7	12.32	29.72	100	255	A	V
	*	5190	101.19	-	-	86.99	31.54	12.38	29.72	100	255	P	V
	*	5190	93.99	-	-	79.79	31.54	12.38	29.72	100	255	A	V
		5426.12	52.24	-21.76	74	37.85	31.5	12.63	29.74	100	255	P	V
		5445.16	43.18	-10.82	54	28.67	31.58	12.67	29.74	100	255	A	V
		5141.44	54.54	-19.46	74	40.23	31.72	12.31	29.72	105	172	P	H
		5139.62	43.72	-10.28	54	29.41	31.72	12.31	29.72	105	172	A	H
	*	5230	97.17	-	-	83.09	31.38	12.42	29.72	105	172	P	H
	*	5230	89.89	-	-	75.81	31.38	12.42	29.72	105	172	A	H
802.11n		5457.48	52.16	-21.84	74	37.6	31.61	12.69	29.74	105	172	P	H
HT40		5441.8	43.68	-10.32	54	29.19	31.57	12.66	29.74	105	172	A	H
CH 46		5066.82	53.89	-20.11	74	39.66	31.73	12.21	29.71	100	253	P	V
5230MHz		5143	44.37	-9.63	54	30.07	31.71	12.31	29.72	100	253	A	V
	*	5230	100.4	-	-	86.32	31.38	12.42	29.72	100	253	P	V
	*	5230	93.27	-	-	79.19	31.38	12.42	29.72	100	253	A	V
		5413.52	52.51	-21.49	74	38.18	31.45	12.61	29.73	100	253	P	V
		5350	43.15	-10.85	54	29.15	31.2	12.53	29.73	100	253	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 HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	47.83	-20.37	68.2	48.21	39.72	19.2	59.3	100	0	P	H
		15570	45.12	-28.88	74	42.86	37.82	24.38	59.94	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	46.33	-21.87	68.2	46.71	39.72	19.2	59.3	100	0	P	V
5190MHz		15570	45.46	-28.54	74	43.2	37.82	24.38	59.94	100	0	P	V
													V
													V
		10460	46.93	-21.27	68.2	47.03	39.92	19.32	59.34	100	0	P	H
		15690	47.01	-26.99	74	45.16	37.34	24.37	59.86	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	47.77	-20.43	68.2	47.87	39.92	19.32	59.34	100	0	P	V
5230MHz		15690	45.73	-28.27	74	43.88	37.34	24.37	59.86	100	0	P	V
													V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5127.14	60.78	-13.22	74	46.46	31.75	12.29	29.72	102	208	P	H
		5148.2	50.32	-3.68	54	36.02	31.7	12.32	29.72	102	208	A	H
	*	5210	92.11	-	-	77.97	31.46	12.4	29.72	102	208	P	H
	*	5210	85.14	-	-	71	31.46	12.4	29.72	102	208	A	H
		5454.12	52.71	-21.29	74	38.16	31.61	12.68	29.74	102	208	P	H
		5432.84	44.69	-9.31	54	30.26	31.53	12.64	29.74	102	208	A	H
		5133.9	62.55	-11.45	74	48.24	31.73	12.3	29.72	101	205	P	V
		5131.04	52.42	-1.58	54	38.1	31.74	12.3	29.72	101	205	A	V
	*	5210	94.63	-	-	80.49	31.46	12.4	29.72	101	205	P	V
	*	5210	87.5	-	-	73.36	31.46	12.4	29.72	101	205	A	V
		5374.6	54.46	-19.54	74	40.33	31.3	12.56	29.73	101	205	P	V
		5350.52	45.03	-8.97	54	31.03	31.2	12.53	29.73	101	205	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	47.01	-21.19	68.2	47.23	39.84	19.26	59.32	100	0	P	H
		15630	45.37	-28.63	74	43.32	37.58	24.37	59.9	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	47.03	-21.17	68.2	47.25	39.84	19.26	59.32	100	0	P	V
5210MHz		15630	45.41	-28.59	74	43.36	37.58	24.37	59.9	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5145.52	52.48	-21.52	74	38.17	31.71	12.32	29.72	184	174	P	H
		5088.4	42.28	-11.72	54	27.98	31.78	12.24	29.72	184	174	A	H
	*	5260	100.82	-	-	86.8	31.3	12.45	29.73	184	174	P	H
	*	5260	93.63	-	-	79.61	31.3	12.45	29.73	184	174	A	H
		5435.52	52.82	-21.18	74	38.37	31.54	12.65	29.74	184	174	P	H
		5448	41.44	-12.56	54	26.92	31.59	12.67	29.74	184	174	A	H
		5130.9	53.48	-20.52	74	39.16	31.74	12.3	29.72	113	266	P	V
		5131.24	42.53	-11.47	54	28.21	31.74	12.3	29.72	113	266	A	V
	*	5260	103.83	-	-	89.81	31.3	12.45	29.73	113	266	P	V
	*	5260	96.74	-	-	82.72	31.3	12.45	29.73	113	266	A	V
		5416.32	52.26	-21.74	74	37.91	31.47	12.61	29.73	113	266	P	V
		5426.64	41.9	-12.1	54	27.5	31.51	12.63	29.74	113	266	A	V
802.11a CH 60 5300MHz		5077.18	52.45	-21.55	74	38.19	31.75	12.22	29.71	116	174	P	H
		5130.56	42.16	-11.84	54	27.84	31.74	12.3	29.72	116	174	A	H
	*	5300	100.45	-	-	86.39	31.3	12.49	29.73	116	174	P	H
	*	5300	93.36	-	-	79.3	31.3	12.49	29.73	116	174	A	H
		5430.72	52.25	-21.75	74	37.83	31.52	12.64	29.74	116	174	P	H
		5445.36	41.56	-12.44	54	27.05	31.58	12.67	29.74	116	174	A	H
		5091.12	53.47	-20.53	74	39.17	31.78	12.24	29.72	248	228	P	V
		5136.34	42.43	-11.57	54	28.12	31.73	12.3	29.72	248	228	A	V
	*	5300	103.94	-	-	89.88	31.3	12.49	29.73	248	228	P	V
	*	5300	96.67	-	-	82.61	31.3	12.49	29.73	248	228	A	V
		5431.44	53.29	-20.71	74	38.86	31.53	12.64	29.74	248	228	P	V
		5387.52	42.6	-11.4	54	28.41	31.35	12.57	29.73	248	228	A	V

802.11a CH 64 5320MHz	*	5320	99.34	-	-	85.31	31.26	12.5	29.73	105	174	P	H
	*	5320	92.12	-	-	78.09	31.26	12.5	29.73	105	174	A	H
		5380.32	52.07	-21.93	74	37.92	31.32	12.56	29.73	105	174	P	H
		5454.24	41.81	-12.19	54	27.26	31.61	12.68	29.74	105	174	A	H
													H
													H
	*	5320	103.22	-	-	89.19	31.26	12.5	29.73	250	227	P	V
	*	5320	96.06	-	-	82.03	31.26	12.5	29.73	250	227	A	V
		5374.72	52.54	-21.46	74	38.41	31.3	12.56	29.73	250	227	P	V
		5350.72	42.71	-11.29	54	28.71	31.2	12.53	29.73	250	227	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	46.75	-21.45	68.2	46.73	40	19.42	59.4	100	0	P	H
		15780	45.33	-28.67	74	43.46	37.3	24.37	59.8	100	0	P	H
													H
													H
		10520	47.09	-21.11	68.2	47.07	40	19.42	59.4	100	0	P	V
		15780	45.85	-28.15	74	43.98	37.3	24.37	59.8	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	47.05	-26.95	74	47.09	40	19.54	59.58	100	0	P	H
		15900	45.29	-28.71	74	43.55	37.1	24.36	59.72	100	0	P	H
													H
													H
		10600	46.92	-27.08	74	46.96	40	19.54	59.58	100	0	P	V
		15900	46.07	-27.93	74	44.33	37.1	24.36	59.72	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	46.85	-27.15	74	46.92	40	19.6	59.67	100	0	P	H
		15960	46.29	-27.71	74	44.58	37.04	24.36	59.69	100	0	P	H
													H
													H
		10640	47.39	-26.61	74	47.46	40	19.6	59.67	100	0	P	V
		15960	48.57	-25.43	74	46.86	37.04	24.36	59.69	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5104.38	53.01	-20.99	74	38.68	31.79	12.26	29.72	102	174	P	H
		5113.56	42.93	-11.07	54	28.61	31.77	12.27	29.72	102	174	A	H
	*	5260	101.83	-	-	87.81	31.3	12.45	29.73	102	174	P	H
	*	5260	94.34	-	-	80.32	31.3	12.45	29.73	102	174	A	H
802.11n		5441.28	52.98	-21.02	74	38.49	31.57	12.66	29.74	102	174	P	H
HT20		5453.52	42.12	-11.88	54	27.57	31.61	12.68	29.74	102	174	A	H
CH 52		5054.4	52.97	-21.03	74	38.78	31.71	12.19	29.71	245	222	P	V
5260MHz		5133.62	43.18	-10.82	54	28.87	31.73	12.3	29.72	245	222	A	V
	*	5260	103.68	-	-	89.66	31.3	12.45	29.73	245	222	P	V
	*	5260	96.2	-	-	82.18	31.3	12.45	29.73	245	222	A	V
		5448.24	53.79	-20.21	74	39.27	31.59	12.67	29.74	245	222	P	V
		5453.76	42.26	-11.74	54	27.71	31.61	12.68	29.74	245	222	A	V
		5126.14	52.79	-21.21	74	38.47	31.75	12.29	29.72	114	174	P	H
		5131.24	42.69	-11.31	54	28.37	31.74	12.3	29.72	114	174	A	H
	*	5300	101.21	-	-	87.15	31.3	12.49	29.73	114	174	P	H
	*	5300	93.65	-	-	79.59	31.3	12.49	29.73	114	174	A	H
802.11n		5444.88	52.88	-21.12	74	38.37	31.58	12.67	29.74	114	174	P	H
HT20		5453.28	42.37	-11.63	54	27.82	31.61	12.68	29.74	114	174	A	H
CH 60		5090.78	52.57	-21.43	74	38.27	31.78	12.24	29.72	248	227	P	V
5300MHz		5133.62	42.79	-11.21	54	28.48	31.73	12.3	29.72	248	227	A	V
	*	5300	104.04	-	-	89.98	31.3	12.49	29.73	248	227	P	V
	*	5300	96.5	-	-	82.44	31.3	12.49	29.73	248	227	A	V
		5455.92	52.81	-21.19	74	38.25	31.61	12.69	29.74	248	227	P	V
		5390.64	42.6	-11.4	54	28.4	31.36	12.57	29.73	248	227	A	V

	*	5320	100.46	-	-	86.43	31.26	12.5	29.73	108	176	P	H
	*	5320	92.21	-	-	78.18	31.26	12.5	29.73	108	176	A	H
		5455.04	52.84	-21.16	74	38.29	31.61	12.68	29.74	108	176	P	H
		5455.2	42.4	-11.6	54	27.85	31.61	12.68	29.74	108	176	A	H
802.11n													H
HT20													H
CH 64	*	5320	103.6	-	-	89.57	31.26	12.5	29.73	250	228	P	V
5320MHz	*	5320	96.07	-	-	82.04	31.26	12.5	29.73	250	228	A	V
		5433.12	54.57	-19.43	74	40.14	31.53	12.64	29.74	250	228	P	V
		5350.24	43.06	-10.94	54	29.06	31.2	12.53	29.73	250	228	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	47.64	-20.56	68.2	47.62	40	19.42	59.4	100	0	P	H
		15780	45.58	-28.42	74	43.71	37.3	24.37	59.8	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	47.72	-20.48	68.2	47.7	40	19.42	59.4	100	0	P	V
5260MHz		15780	46.21	-27.79	74	44.34	37.3	24.37	59.8	100	0	P	V
													V
													V
		10600	48.64	-25.36	74	48.68	40	19.54	59.58	100	0	P	H
		15900	45.21	-28.79	74	43.47	37.1	24.36	59.72	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	47.37	-26.63	74	47.41	40	19.54	59.58	100	0	P	V
5300MHz		15900	47.61	-26.39	74	45.87	37.1	24.36	59.72	100	0	P	V
													V
													V
		10640	46.79	-27.21	74	46.86	40	19.6	59.67	100	0	P	H
		15960	46.96	-27.04	74	45.25	37.04	24.36	59.69	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	47.4	-26.6	74	47.47	40	19.6	59.67	100	0	P	V
5320MHz		15960	48.58	-25.42	74	46.87	37.04	24.36	59.69	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5068.68	52.39	-21.61	74	38.15	31.74	12.21	29.71	102	173	P	H
		5146.54	43.81	-10.19	54	29.5	31.71	12.32	29.72	102	173	A	H
	*	5270	96.99	-	-	82.96	31.3	12.46	29.73	102	173	P	H
	*	5270	89.61	-	-	75.58	31.3	12.46	29.73	102	173	A	H
		5440.32	51.85	-22.15	74	37.37	31.56	12.66	29.74	102	173	P	H
		5425.92	43.02	-10.98	54	28.63	31.5	12.63	29.74	102	173	A	H
		5098.94	53.08	-20.92	74	38.75	31.8	12.25	29.72	100	253	P	V
		5099.96	43.51	-10.49	54	29.18	31.8	12.25	29.72	100	253	A	V
	*	5270	99.58	-	-	85.55	31.3	12.46	29.73	100	253	P	V
	*	5270	91.47	-	-	77.44	31.3	12.46	29.73	100	253	A	V
		5429.04	52.79	-21.21	74	38.37	31.52	12.64	29.74	100	253	P	V
		5417.28	43.14	-10.86	54	28.8	31.47	12.61	29.74	100	253	A	V
802.11n HT40 CH 62 5310MHz		5118.66	52.93	-21.07	74	38.61	31.76	12.28	29.72	100	169	P	H
		5136.68	44	-10	54	29.69	31.73	12.3	29.72	100	169	A	H
	*	5310	98.33	-	-	84.29	31.28	12.49	29.73	100	169	P	H
	*	5310	91.03	-	-	76.99	31.28	12.49	29.73	100	169	A	H
		5350.8	57.21	-16.79	74	43.21	31.2	12.53	29.73	100	169	P	H
		5350.08	46.52	-7.48	54	32.52	31.2	12.53	29.73	100	169	A	H
		5090.1	52.72	-21.28	74	38.42	31.78	12.24	29.72	100	237	P	V
		5097.24	43.87	-10.13	54	29.55	31.79	12.25	29.72	100	237	A	V
	*	5310	99.12	-	-	85.08	31.28	12.49	29.73	100	237	P	V
	*	5310	91.57	-	-	77.53	31.28	12.49	29.73	100	237	A	V
		5350.32	55.04	-18.96	74	41.04	31.2	12.53	29.73	100	237	P	V
		5350.08	47.94	-6.06	54	33.94	31.2	12.53	29.73	100	237	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	46.3	-21.9	68.2	46.3	40	19.45	59.45	100	0	P	H
		15810	45.55	-28.45	74	43.68	37.28	24.37	59.78	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	46.79	-21.41	68.2	46.79	40	19.45	59.45	100	0	P	V
5270MHz		15810	44.21	-29.79	74	42.34	37.28	24.37	59.78	100	0	P	V
													V
													V
		10620	47.01	-26.99	74	47.07	40	19.57	59.63	100	0	P	H
		15930	44.75	-29.25	74	43.01	37.07	24.37	59.7	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	47.12	-26.88	74	47.18	40	19.57	59.63	100	0	P	V
5310MHz		15930	45.68	-28.32	74	43.94	37.07	24.37	59.7	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5135.66	56.05	-17.95	74	41.74	31.73	12.3	29.72	100	220	P	H
		5142.12	46.64	-7.36	54	32.33	31.72	12.31	29.72	100	220	A	H
	*	5290	92.23	-	-	78.18	31.3	12.48	29.73	100	220	P	H
	*	5290	84.85	-	-	70.8	31.3	12.48	29.73	100	220	A	H
		5352.24	61.55	-12.45	74	47.54	31.21	12.53	29.73	100	220	P	H
		5350.8	48.53	-5.47	54	34.53	31.2	12.53	29.73	100	220	A	H
		5129.2	57.83	-16.17	74	43.52	31.74	12.29	29.72	100	209	P	V
		5131.24	47.11	-6.89	54	32.79	31.74	12.3	29.72	100	209	A	V
	*	5290	95.79	-	-	81.74	31.3	12.48	29.73	100	209	P	V
	*	5290	88.36	-	-	74.31	31.3	12.48	29.73	100	209	A	V
		5420.16	61.72	-12.28	74	47.36	31.48	12.62	29.74	100	209	P	V
		5356.08	52.7	-1.3	54	38.67	31.22	12.54	29.73	100	209	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	47.24	-20.96	68.2	47.27	40	19.51	59.54	100	0	P	H
		15870	44.83	-29.17	74	43.04	37.16	24.37	59.74	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	47.8	-20.4	68.2	47.83	40	19.51	59.54	100	0	P	V
5290MHz		15870	44.9	-29.1	74	43.11	37.16	24.37	59.74	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5420.88	53.01	-20.99	74	38.65	31.48	12.62	29.74	252	171	P	H
		5469.84	54.5	-13.7	68.2	39.89	31.64	12.71	29.74	252	171	P	H
		5454.8	42.18	-11.82	54	27.63	31.61	12.68	29.74	252	171	A	H
	*	5500	100.98	-	-	86.25	31.7	12.77	29.74	252	171	P	H
	*	5500	93.12	-	-	78.39	31.7	12.77	29.74	252	171	A	H
													H
		5455.92	52.55	-21.45	74	37.99	31.61	12.69	29.74	101	282	P	V
		5468.08	51.9	-16.3	68.2	37.29	31.64	12.71	29.74	101	282	P	V
		5459.76	42.26	-11.74	54	27.69	31.62	12.69	29.74	101	282	A	V
	*	5500	103.06	-	-	88.33	31.7	12.77	29.74	101	282	P	V
	*	5500	95.28	-	-	80.55	31.7	12.77	29.74	101	282	A	V
													V
802.11a CH 116 5580MHz		5438.56	51.87	-22.13	74	37.41	31.55	12.65	29.74	247	172	P	H
		5460.88	51.39	-16.81	68.2	36.81	31.62	12.7	29.74	247	172	P	H
		5442.4	41.94	-12.06	54	27.45	31.57	12.66	29.74	247	172	A	H
	*	5580	101.33	-	-	86.45	31.74	12.92	29.78	247	172	P	H
	*	5580	93.71	-	-	78.83	31.74	12.92	29.78	247	172	A	H
		5730.035	53.03	-15.17	68.2	37.79	31.92	13.17	29.85	247	172	P	H
		5437.6	52.68	-21.32	74	38.22	31.55	12.65	29.74	101	234	P	V
		5469.28	52.61	-15.59	68.2	38	31.64	12.71	29.74	101	234	P	V
		5451.28	42.16	-11.84	54	27.62	31.6	12.68	29.74	101	234	A	V
	*	5580	102.64	-	-	87.76	31.74	12.92	29.78	101	234	P	V
	*	5580	95.9	-	-	81.02	31.74	12.92	29.78	101	234	A	V
		5738.855	53.46	-14.74	68.2	38.17	31.96	13.18	29.85	101	234	P	V

802.11a CH 140 5700MHz	*	5700	103.87	-	-	88.79	31.8	13.12	29.84	249	195	P	H
	*	5700	96.22	-	-	81.14	31.8	13.12	29.84	249	195	A	H
		5725.4	55.86	-12.34	68.2	40.65	31.9	13.16	29.85	249	195	P	H
													H
													H
													H
	*	5700	103.45	-	-	88.37	31.8	13.12	29.84	100	265	P	V
	*	5700	96.03	-	-	80.95	31.8	13.12	29.84	100	265	A	V
		5725.16	55.85	-12.35	68.2	40.64	31.9	13.16	29.85	100	265	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	47.18	-26.82	74	47.13	40.4	20.13	60.48	100	0	P	H
		16500	47.01	-21.19	68.2	41.93	38.8	25.22	58.94	100	0	P	H
													H
													H
		11000	47.85	-26.15	74	47.8	40.4	20.13	60.48	100	0	P	V
		16500	47.36	-20.84	68.2	42.28	38.8	25.22	58.94	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	47.01	-26.99	74	47.3	39.98	20.3	60.57	100	0	P	H
		16740	48.65	-19.55	68.2	41.6	39.8	25.63	58.38	100	0	P	H
													H
													H
		11160	47.39	-26.61	74	47.68	39.98	20.3	60.57	100	0	P	V
		16740	48.4	-19.8	68.2	41.35	39.8	25.63	58.38	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	46.47	-27.53	74	46.5	40.1	20.57	60.7	100	0	P	H
		17100	49.13	-19.07	68.2	39.99	40.3	26.25	57.41	100	0	P	H
													H
													H
		11400	47.31	-26.69	74	47.34	40.1	20.57	60.7	100	0	P	V
		17100	48.69	-19.51	68.2	39.55	40.3	26.25	57.41	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 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.76	53.81	-20.19	74	39.24	31.62	12.69	29.74	249	197	P	H
		5466.48	54.19	-14.01	68.2	39.59	31.63	12.71	29.74	249	197	P	H
		5451.28	42.61	-11.39	54	28.07	31.6	12.68	29.74	249	197	A	H
	*	5500	100.97	-	-	86.24	31.7	12.77	29.74	249	197	P	H
802.11n	*	5500	93.32	-	-	78.59	31.7	12.77	29.74	249	197	A	H
HT20													H
CH 100		5383.28	54.51	-19.49	74	40.35	31.33	12.56	29.73	246	230	P	V
5500MHz		5468.08	57.65	-10.55	68.2	43.04	31.64	12.71	29.74	246	230	P	V
		5454.32	43.44	-10.56	54	28.89	31.61	12.68	29.74	246	230	A	V
	*	5500	104.94	-	-	90.21	31.7	12.77	29.74	246	230	P	V
	*	5500	97.28	-	-	82.55	31.7	12.77	29.74	246	230	A	V
													V
		5426.08	54.1	-19.9	74	39.71	31.5	12.63	29.74	245	182	P	H
		5466.4	51.63	-16.57	68.2	37.03	31.63	12.71	29.74	245	182	P	H
		5446.72	42.4	-11.6	54	27.88	31.59	12.67	29.74	245	182	A	H
	*	5580	102.03	-	-	87.15	31.74	12.92	29.78	245	182	P	H
802.11n	*	5580	94.89	-	-	80.01	31.74	12.92	29.78	245	182	A	H
HT20		5742.32	54.25	-13.95	68.2	38.95	31.97	13.19	29.86	245	182	P	H
CH 116		5456.8	53.88	-20.12	74	39.32	31.61	12.69	29.74	243	229	P	V
5580MHz		5466.4	52.73	-15.47	68.2	38.13	31.63	12.71	29.74	243	229	P	V
		5454.16	42.69	-11.31	54	28.14	31.61	12.68	29.74	243	229	A	V
	*	5580	105.12	-	-	90.24	31.74	12.92	29.78	243	229	P	V
	*	5580	97.4	-	-	82.52	31.74	12.92	29.78	243	229	A	V
		5749.25	53.54	-14.66	68.2	38.2	32	13.2	29.86	243	229	P	V

	*	5700	104.09	-	-	89.01	31.8	13.12	29.84	250	191	P	H
	*	5700	96.53	-	-	81.45	31.8	13.12	29.84	250	191	A	H
		5725	61.66	-6.54	68.2	46.45	31.9	13.16	29.85	250	191	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	104.99	-	-	89.91	31.8	13.12	29.84	242	242	P	V
5700MHz	*	5700	97.37	-	-	82.29	31.8	13.12	29.84	242	242	A	V
		5725	62.34	-5.86	68.2	47.13	31.9	13.16	29.85	242	242	P	V
													V
													V
													V

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	48.95	-25.05	74	48.9	40.4	20.13	60.48	100	0	P	H
		16500	48.8	-19.4	68.2	43.72	38.8	25.22	58.94	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	48.5	-25.5	74	48.45	40.4	20.13	60.48	100	0	P	V
5500MHz		16500	49.36	-18.84	68.2	44.28	38.8	25.22	58.94	100	0	P	V
													V
													V
		11160	48.01	-25.99	74	48.3	39.98	20.3	60.57	100	0	P	H
		16740	49.38	-18.82	68.2	42.33	39.8	25.63	58.38	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	46.77	-27.23	74	47.06	39.98	20.3	60.57	100	0	P	V
5580MHz		16740	49.65	-18.55	68.2	42.6	39.8	25.63	58.38	100	0	P	V
													V
													V
		11400	47.61	-26.39	74	47.64	40.1	20.57	60.7	100	0	P	H
		17100	49.74	-18.46	68.2	40.6	40.3	26.25	57.41	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	48.49	-25.51	74	48.52	40.1	20.57	60.7	100	0	P	V
5700MHz		17100	49.14	-19.06	68.2	40	40.3	26.25	57.41	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 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5457.76	53.72	-20.28	74	39.15	31.62	12.69	29.74	266	180	P	H
		5470	56.85	-11.35	68.2	42.24	31.64	12.71	29.74	266	180	P	H
		5459.44	44.26	-9.74	54	29.69	31.62	12.69	29.74	266	180	A	H
	*	5510	96.98	-	-	82.21	31.72	12.79	29.74	266	180	P	H
802.11n	*	5510	89.58	-	-	74.81	31.72	12.79	29.74	266	180	A	H
HT40		5745.47	52.8	-15.4	68.2	37.49	31.98	13.19	29.86	266	180	P	H
CH 102		5457.52	56.1	-17.9	74	41.53	31.62	12.69	29.74	100	257	P	V
5510MHz		5468.8	59.47	-8.73	68.2	44.86	31.64	12.71	29.74	100	257	P	V
		5457.28	45.81	-8.19	54	31.25	31.61	12.69	29.74	100	257	A	V
	*	5510	100.39	-	-	85.62	31.72	12.79	29.74	100	257	P	V
	*	5510	92.26	-	-	77.49	31.72	12.79	29.74	100	257	A	V
		5740.115	52.96	-15.24	68.2	37.68	31.96	13.18	29.86	100	257	P	V
		5429.44	52.85	-21.15	74	38.43	31.52	12.64	29.74	249	172	P	H
		5470	52.6	-15.6	68.2	37.99	31.64	12.71	29.74	249	172	P	H
		5410.48	43.43	-10.57	54	29.12	31.44	12.6	29.73	249	172	A	H
	*	5550	99.25	-	-	84.35	31.8	12.86	29.76	249	172	P	H
802.11n	*	5550	91.75	-	-	76.85	31.8	12.86	29.76	249	172	A	H
HT40		5739.8	54.25	-13.95	68.2	38.97	31.96	13.18	29.86	249	172	P	H
CH 110		5411.44	54.11	-19.89	74	39.79	31.45	12.6	29.73	100	287	P	V
5550MHz		5467.36	51.85	-16.35	68.2	37.25	31.63	12.71	29.74	100	287	P	V
		5459.68	43.63	-10.37	54	29.06	31.62	12.69	29.74	100	287	A	V
	*	5550	100.32	-	-	85.42	31.8	12.86	29.76	100	287	P	V
	*	5550	93.07	-	-	78.17	31.8	12.86	29.76	100	287	A	V
		5733.185	53.15	-15.05	68.2	37.9	31.93	13.17	29.85	100	287	P	V

		5453.6	52.06	-21.94	74	37.51	31.61	12.68	29.74	268	196	P	H
		5461.65	52.64	-15.56	68.2	38.06	31.62	12.7	29.74	268	196	P	H
		5454.65	42.96	-11.04	54	28.41	31.61	12.68	29.74	268	196	A	H
	*	5670	99.03	-	-	84.04	31.74	13.07	29.82	268	196	P	H
802.11n	*	5670	91.5	-	-	76.51	31.74	13.07	29.82	268	196	A	H
HT40		5725.275	56.52	-11.68	68.2	41.31	31.9	13.16	29.85	268	196	P	H
CH 134		5457.8	52.95	-21.05	74	38.38	31.62	12.69	29.74	123	199	P	V
5670MHz		5461.65	52.03	-16.17	68.2	37.45	31.62	12.7	29.74	123	199	P	V
		5454.3	42.86	-11.14	54	28.31	31.61	12.68	29.74	123	199	A	V
	*	5670	99.47	-	-	84.48	31.74	13.07	29.82	123	199	P	V
	*	5670	91.48	-	-	76.49	31.74	13.07	29.82	123	199	A	V
		5725.45	55.92	-12.28	68.2	40.71	31.9	13.16	29.85	123	199	P	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	47.84	-26.16	74	47.84	40.34	20.15	60.49	100	0	P	H
		16530	47.97	-20.23	68.2	42.62	38.95	25.27	58.87	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	48.52	-25.48	74	48.52	40.34	20.15	60.49	100	0	P	V
5510MHz		16530	47.63	-20.57	68.2	42.28	38.95	25.27	58.87	100	0	P	V
													V
													V
		11100	48.36	-25.64	74	48.56	40.1	20.24	60.54	100	0	P	H
		16650	47.93	-20.27	68.2	41.6	39.45	25.47	58.59	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	47.92	-26.08	74	48.12	40.1	20.24	60.54	100	0	P	V
5550MHz		16650	48.32	-19.88	68.2	41.99	39.45	25.47	58.59	100	0	P	V
													V
													V
		11340	47.13	-26.87	74	47.38	39.92	20.5	60.67	100	0	P	H
		17010	49.74	-18.46	68.2	40.8	40.57	26.1	57.73	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	47.35	-26.65	74	47.6	39.92	20.5	60.67	100	0	P	V
5670MHz		17010	49.45	-18.75	68.2	40.51	40.57	26.1	57.73	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.72	58.26	-15.74	74	43.69	31.62	12.69	29.74	254	213	P	H
		5468.8	59.72	-8.48	68.2	45.11	31.64	12.71	29.74	254	213	P	H
		5456.8	50.35	-3.65	54	35.79	31.61	12.69	29.74	254	213	A	H
	*	5530	91.61	-	-	76.77	31.76	12.83	29.75	254	213	P	H
802.11ac	*	5530	83.8	-	-	68.96	31.76	12.83	29.75	254	213	A	H
VHT80		5738.225	55.71	-12.49	68.2	40.43	31.95	13.18	29.85	254	213	P	H
CH 106		5454.16	63.3	-10.7	74	48.75	31.61	12.68	29.74	110	203	P	V
5530MHz		5467.36	61.51	-6.69	68.2	46.91	31.63	12.71	29.74	110	203	P	V
		5457.76	52.57	-1.43	54	38	31.62	12.69	29.74	110	203	A	V
	*	5530	93.06	-	-	78.22	31.76	12.83	29.75	110	203	P	V
	*	5530	85.56	-	-	70.72	31.76	12.83	29.75	110	203	A	V
		5728.46	53.23	-14.97	68.2	38	31.91	13.17	29.85	110	203	P	V
		5429.92	53.7	-20.3	74	39.28	31.52	12.64	29.74	265	161	P	H
		5467.12	55.66	-12.54	68.2	41.06	31.63	12.71	29.74	265	161	P	H
		5459.2	45.32	-8.68	54	30.75	31.62	12.69	29.74	265	161	A	H
	*	5610	95.06	-	-	80.17	31.7	12.98	29.79	265	161	P	H
802.11ac	*	5610	87.87	-	-	72.98	31.7	12.98	29.79	265	161	A	H
VHT80		5726.57	62.48	-5.72	68.2	47.26	31.91	13.16	29.85	265	161	P	H
CH 122		5448.64	56.64	-17.36	74	42.12	31.59	12.67	29.74	100	283	P	V
5610MHz		5464.24	57.14	-11.06	68.2	42.55	31.63	12.7	29.74	100	283	P	V
		5457.28	46.19	-7.81	54	31.63	31.61	12.69	29.74	100	283	A	V
	*	5610	95.51	-	-	80.62	31.7	12.98	29.79	100	283	P	V
	*	5610	88.05	-	-	73.16	31.7	12.98	29.79	100	283	A	V
		5732.555	60.64	-7.56	68.2	45.39	31.93	13.17	29.85	100	283	P	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	47.91	-26.09	74	48	40.22	20.2	60.51	100	0	P	H
		16590	48.19	-20.01	68.2	42.3	39.25	25.37	58.73	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	47.45	-26.55	74	47.54	40.22	20.2	60.51	100	0	P	V
5530MHz		16590	49.42	-18.78	68.2	43.53	39.25	25.37	58.73	100	0	P	V
													V
													V
		11220	46.56	-27.44	74	46.91	39.88	20.37	60.6	100	0	P	H
		16830	49.88	-18.32	68.2	42.02	40.25	25.78	58.17	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	46.92	-27.08	74	47.27	39.88	20.37	60.6	100	0	P	V
5610MHz		16830	49.04	-19.16	68.2	41.18	40.25	25.78	58.17	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5450.62	51.91	-22.09	74	37.37	31.6	12.68	29.74	244	195	P	H
		5468.17	50.71	-17.49	68.2	36.1	31.64	12.71	29.74	244	195	P	H
		5454.52	41.31	-12.69	54	26.76	31.61	12.68	29.74	244	195	A	H
	*	5720	103.47	-	-	88.29	31.88	13.15	29.85	244	195	P	H
	*	5720	96.1	-	-	80.92	31.88	13.15	29.85	244	195	A	H
		5900.5	54	-14.2	68.2	38.39	32.2	13.34	29.93	244	195	P	H
		5447.11	52.44	-21.56	74	37.92	31.59	12.67	29.74	100	262	P	V
		5467.39	53.1	-15.1	68.2	38.5	31.63	12.71	29.74	100	262	P	V
		5452.18	41.48	-12.52	54	26.94	31.6	12.68	29.74	100	262	A	V
	*	5720	103.22	-	-	88.04	31.88	13.15	29.85	100	262	P	V
	*	5720	95.79	-	-	80.61	31.88	13.15	29.85	100	262	A	V
		5922.5	54.48	-13.72	68.2	38.78	32.29	13.35	29.94	100	262	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	47.38	-26.62	74	47.4	40.1	20.61	60.73	100	0	P	H
		17160	48.71	-19.49	68.2	39.01	40.54	26.35	57.19	100	0	P	H
													H
													H
		11440	47.88	-26.12	74	47.9	40.1	20.61	60.73	100	0	P	V
		17160	49.08	-19.12	68.2	39.38	40.54	26.35	57.19	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		5416.3	52.5	-21.5	74	38.15	31.47	12.61	29.73	250	188	P	H
		5468.17	52.68	-15.52	68.2	38.07	31.64	12.71	29.74	250	188	P	H
		5456.08	42.11	-11.89	54	27.55	31.61	12.69	29.74	250	188	A	H
	*	5720	104.17	-	-	88.99	31.88	13.15	29.85	250	188	P	H
	*	5720	96.5	-	-	81.32	31.88	13.15	29.85	250	188	A	H
		5851	55.52	-12.68	68.2	40.02	32.1	13.31	29.91	250	188	P	H
		5370.28	52.62	-21.38	74	38.52	31.28	12.55	29.73	256	234	P	V
		5470	52.96	-15.24	68.2	38.35	31.64	12.71	29.74	256	234	P	V
		5459.98	42.3	-11.7	54	27.73	31.62	12.69	29.74	256	234	A	V
	*	5720	104.97	-	-	89.79	31.88	13.15	29.85	256	234	P	V
	*	5720	97.2	-	-	82.02	31.88	13.15	29.85	256	234	A	V
		5899.5	54.27	-13.93	68.2	38.66	32.2	13.34	29.93	256	234	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	48.09	-25.91	74	48.11	40.1	20.61	60.73	100	0	P	H
		17160	49.72	-18.48	68.2	40.02	40.54	26.35	57.19	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	47.95	-26.05	74	47.97	40.1	20.61	60.73	100	0	P	V
5720MHz		17160	49.7	-18.5	68.2	40	40.54	26.35	57.19	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		5401.87	51.76	-22.24	74	37.5	31.41	12.58	29.73	262	198	P	H
		5465.05	51.7	-16.5	68.2	37.11	31.63	12.7	29.74	262	198	P	H
		5387.83	42.74	-11.26	54	28.55	31.35	12.57	29.73	262	198	A	H
	*	5710	99.34	-	-	84.2	31.84	13.14	29.84	262	198	P	H
	*	5710	91.87	-	-	76.73	31.84	13.14	29.84	262	198	A	H
		5883.25	54.38	-13.82	68.2	38.8	32.17	13.33	29.92	262	198	P	H
		5357.8	52.96	-21.04	74	38.92	31.23	12.54	29.73	100	175	P	V
		5468.17	50.74	-17.46	68.2	36.13	31.64	12.71	29.74	100	175	P	V
		5387.44	43.38	-10.62	54	29.19	31.35	12.57	29.73	100	175	A	V
	*	5710	99.38	-	-	84.24	31.84	13.14	29.84	100	175	P	V
	*	5710	91.92	-	-	76.78	31.84	13.14	29.84	100	175	A	V
		5942.5	53.95	-14.25	68.2	38.16	32.37	13.37	29.95	100	175	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	47.18	-26.82	74	47.21	40.1	20.59	60.72	100	0	P	H
		17130	49.4	-18.8	68.2	39.98	40.42	26.3	57.3	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	47.38	-26.62	74	47.41	40.1	20.59	60.72	100	0	P	V
5710MHz		17130	49.36	-18.84	68.2	39.94	40.42	26.3	57.3	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		5452.57	51.89	-22.11	74	37.34	31.61	12.68	29.74	267	162	P	H
		5468.56	51.34	-16.86	68.2	36.73	31.64	12.71	29.74	267	162	P	H
		5440.48	44.93	-9.07	54	30.45	31.56	12.66	29.74	267	162	A	H
	*	5690	96.31	-	-	81.26	31.78	13.1	29.83	267	162	P	H
	*	5690	88.82	-	-	73.77	31.78	13.1	29.83	267	162	A	H
		5850.5	60.9	-7.3	68.2	45.4	32.1	13.31	29.91	267	162	P	H
		5454.52	52.68	-21.32	74	38.13	31.61	12.68	29.74	100	180	P	V
		5464.66	52.71	-15.49	68.2	38.12	31.63	12.7	29.74	100	180	P	V
		5360.53	44.93	-9.07	54	30.88	31.24	12.54	29.73	100	180	A	V
	*	5690	96.05	-	-	81	31.78	13.1	29.83	100	180	P	V
	*	5690	88.39	-	-	73.34	31.78	13.1	29.83	100	180	A	V
		5871	56.3	-11.9	68.2	40.76	32.14	13.32	29.92	100	180	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	47.64	-26.36	74	47.75	40.04	20.54	60.69	100	0	P	H
		17070	49.9	-18.3	68.2	40.83	40.39	26.2	57.52	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	47.68	-26.32	74	47.79	40.04	20.54	60.69	100	0	P	V
5690MHz		17070	49.53	-18.67	68.2	40.46	40.39	26.2	57.52	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 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		180.35	28	-15.5	43.5	42.98	14.89	2.44	32.31	-	-	P	H
		239.52	33.62	-12.38	46	45.86	17.29	2.81	32.34	-	-	P	H
		440.31	30.37	-15.63	46	35.95	22.95	3.63	32.16	-	-	P	H
		580.96	29.31	-16.69	46	31.45	25.6	4.21	31.95	-	-	P	H
		736.16	31.25	-14.75	46	30.92	27.88	4.68	32.23	-	-	P	H
		935.01	35.12	-10.88	46	31.28	30.02	5.33	31.51	100	0	P	H
													H
													H
													H
													H
													H
													H
		174.53	24.66	-18.84	43.5	39.34	15.21	2.41	32.3	-	-	P	V
		346.22	24.63	-21.37	46	33.42	20.27	3.23	32.29	-	-	P	V
		545.07	27.03	-18.97	46	30.32	24.69	4.03	32.01	-	-	P	V
		631.4	29.91	-16.09	46	31.32	26.22	4.36	31.99	-	-	P	V
		756.53	31.5	-14.5	46	30.95	28.07	4.75	32.27	-	-	P	V
		841.89	32.42	-13.58	46	30.62	28.96	5.02	32.18	100	0	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

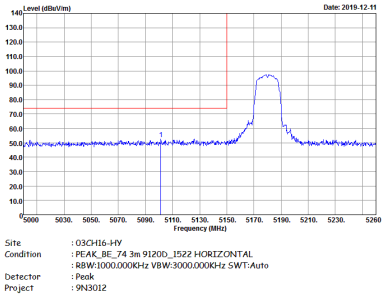
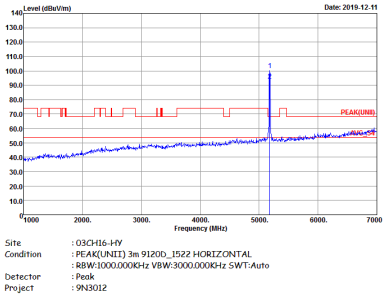
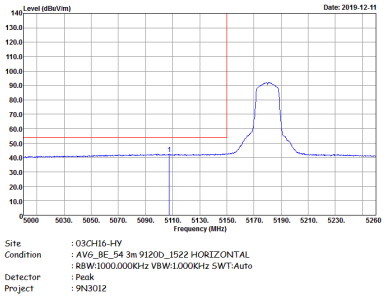
Test Engineer :	Jacky Hung, Andy Yang and CR Liao	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

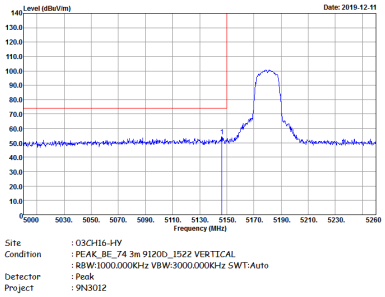
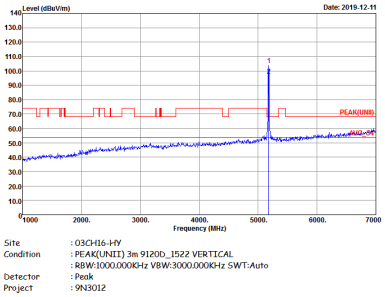
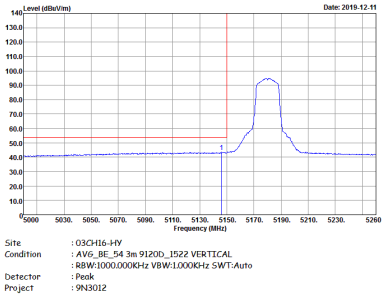
Note symbol

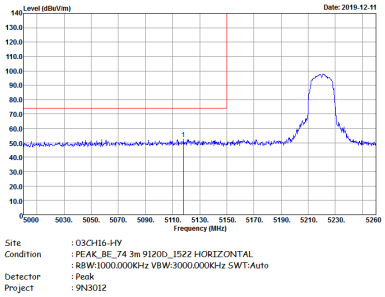
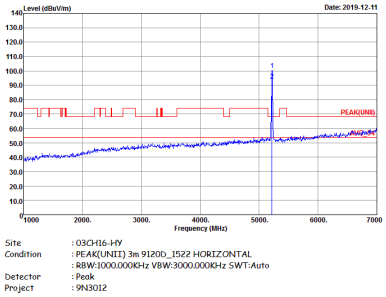
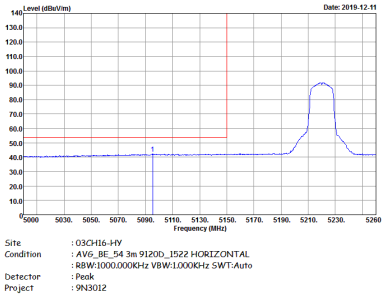
-L	**Low channel location**
-R	**High channel location**

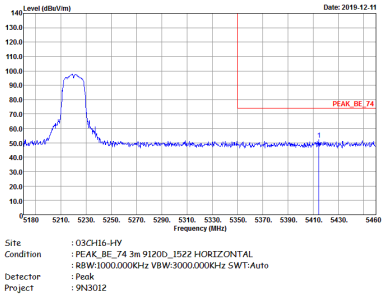
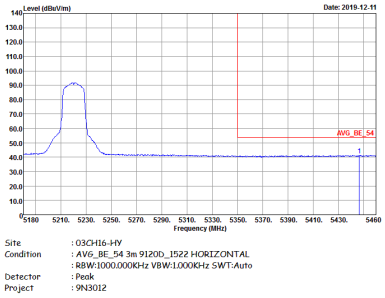
Band 1 - 5150~5250MHz

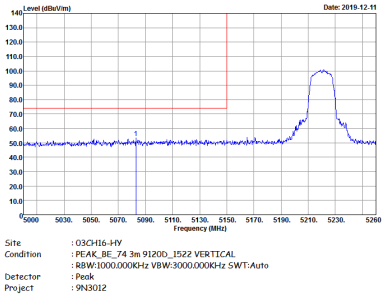
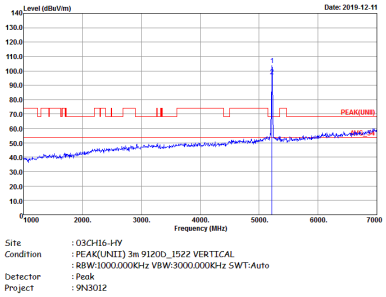
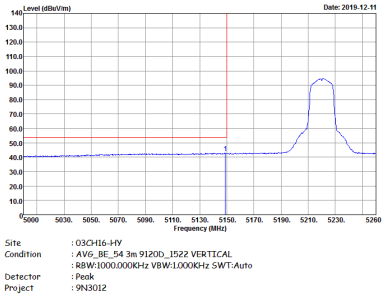
WIFI 802.11a (Band Edge @ 3m)

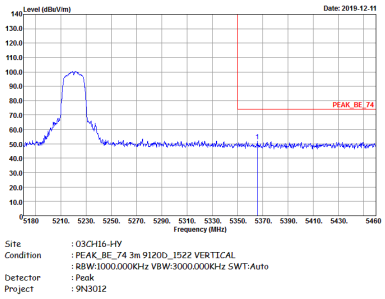
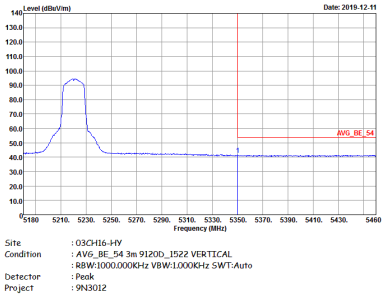
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

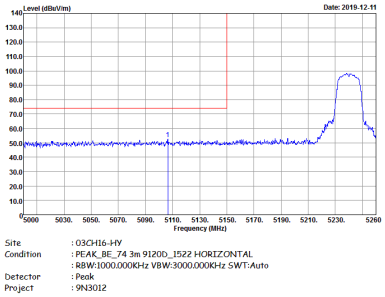
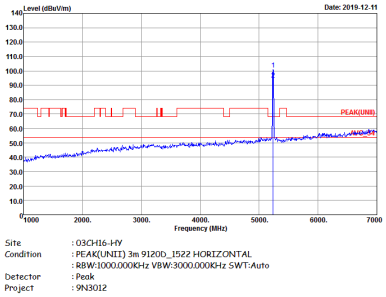
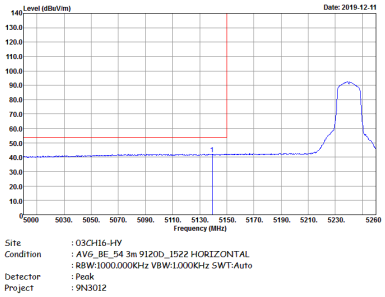
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

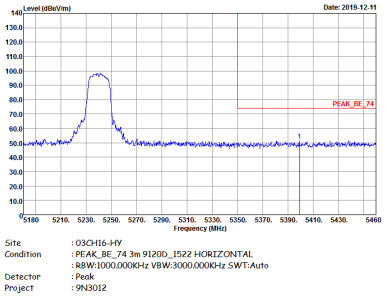
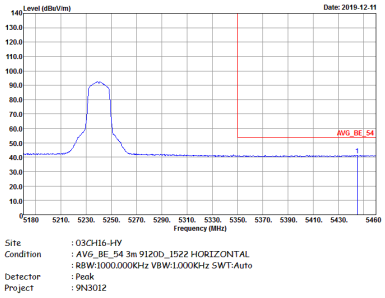
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

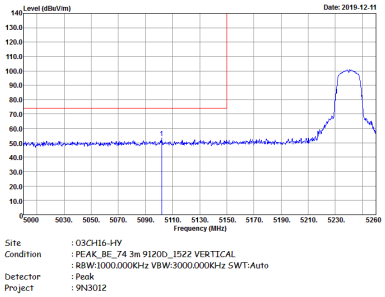
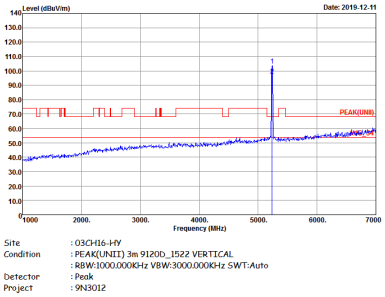
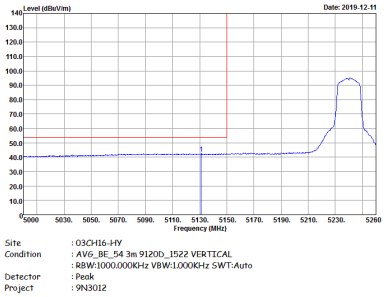
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

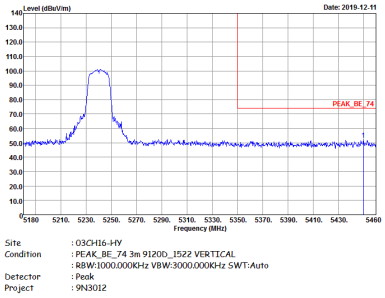
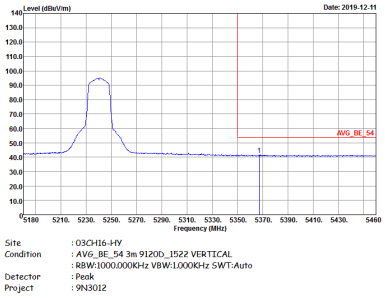
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

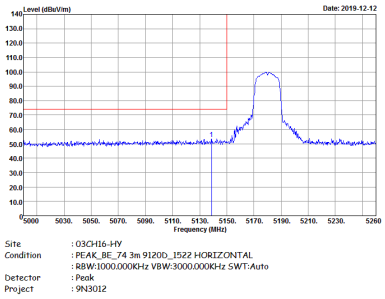
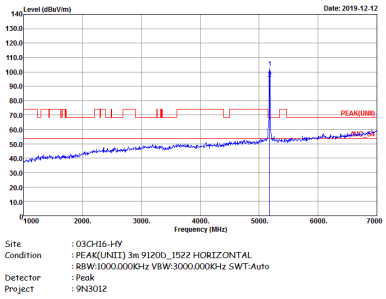
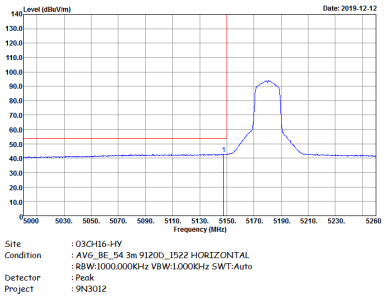
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

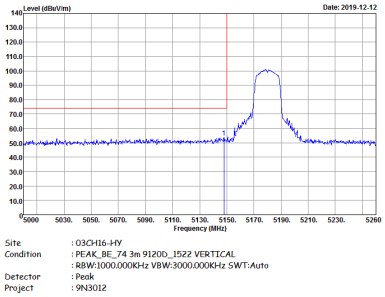
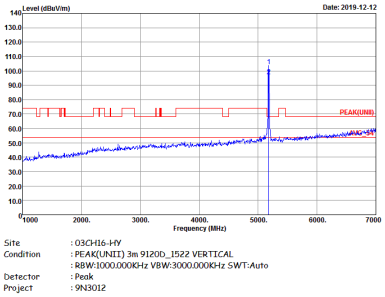
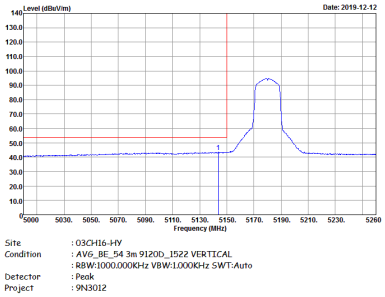
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

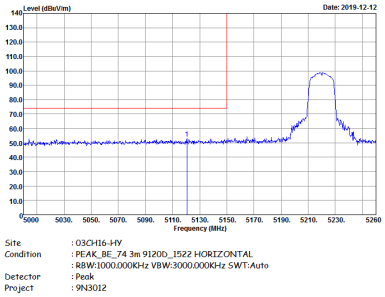
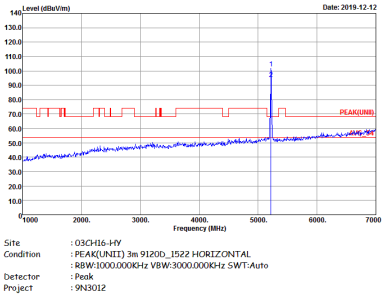
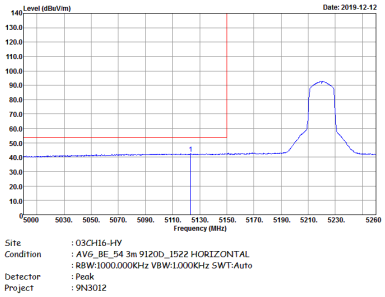
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

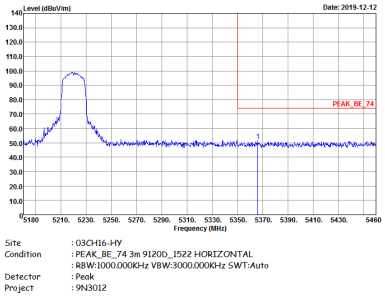
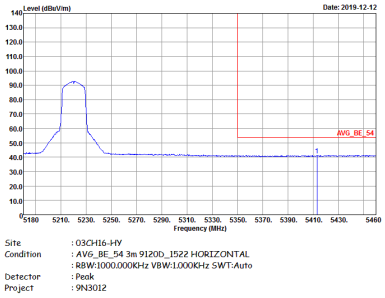
Band 1 5150~5250MHz

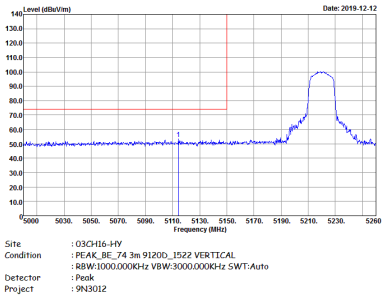
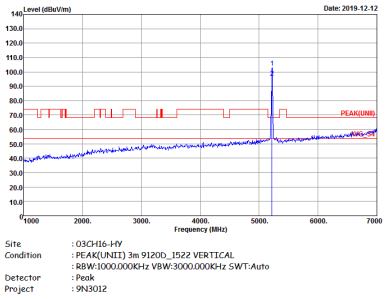
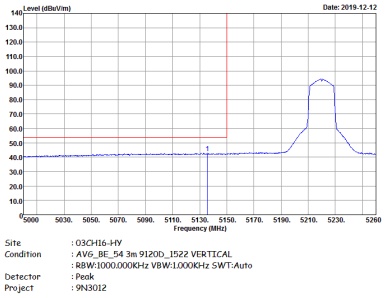
WIFI 802.11n HT20 (Band Edge @ 3m)

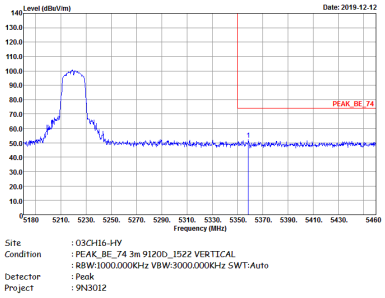
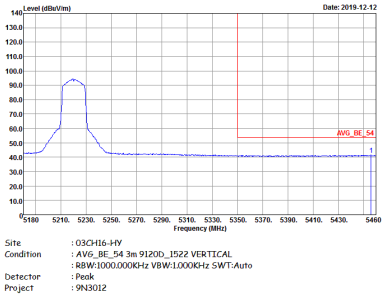
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

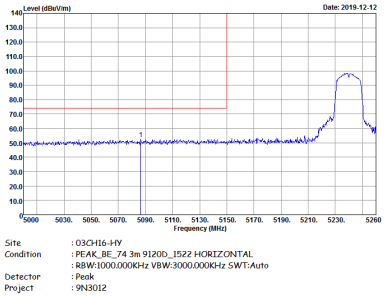
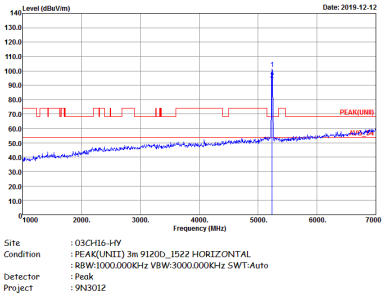
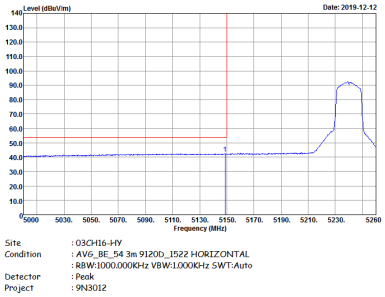
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

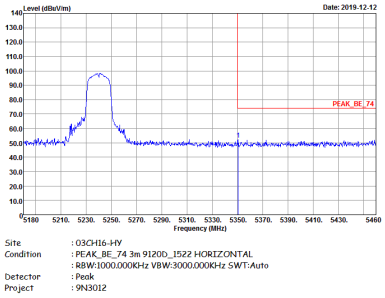
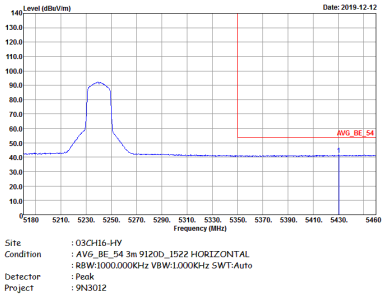
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

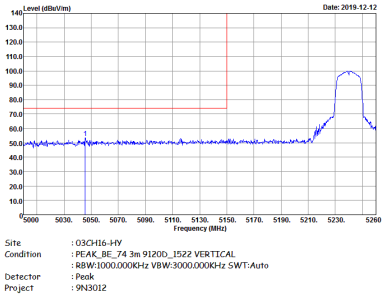
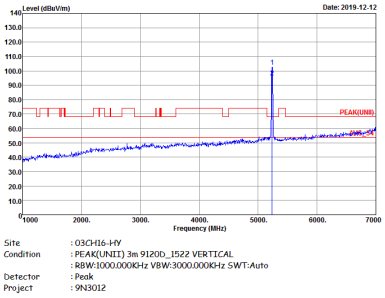
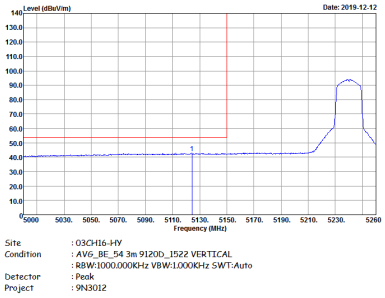
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

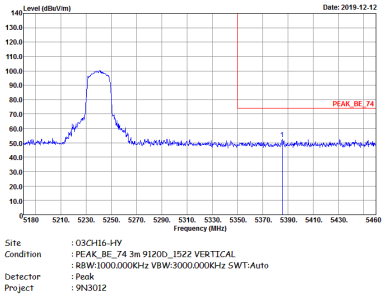
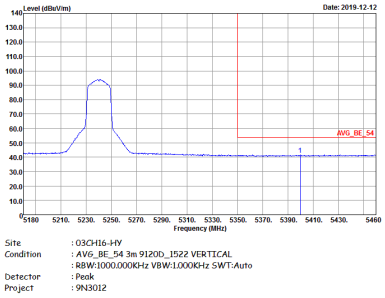
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

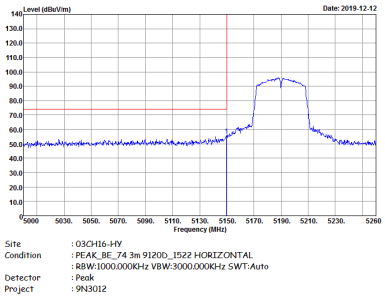
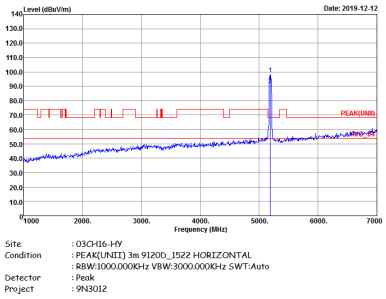
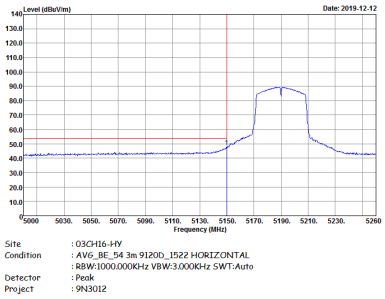
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

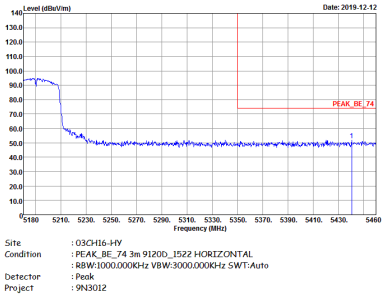
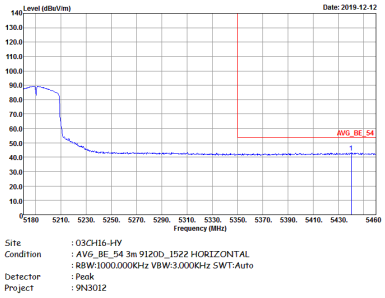
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

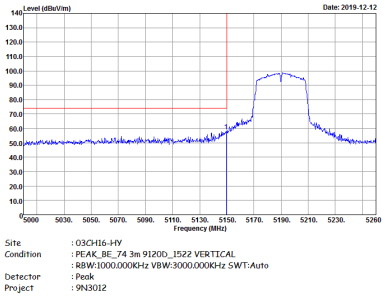
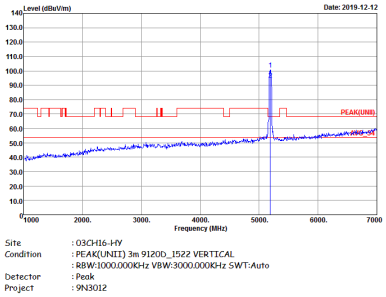
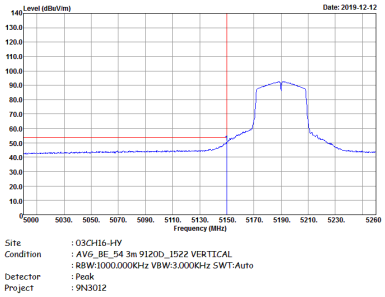
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

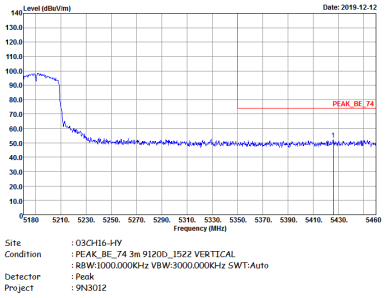
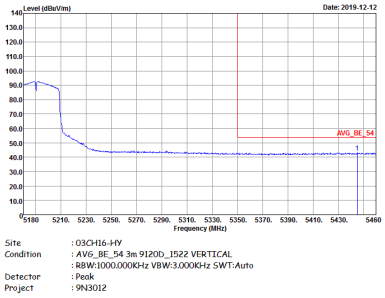
Band 1 5150~5250MHz

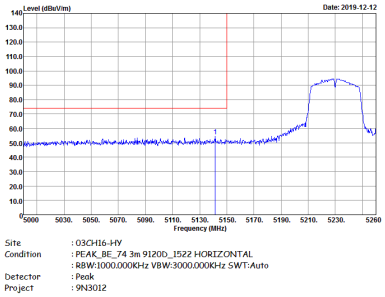
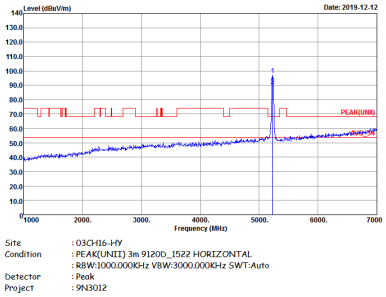
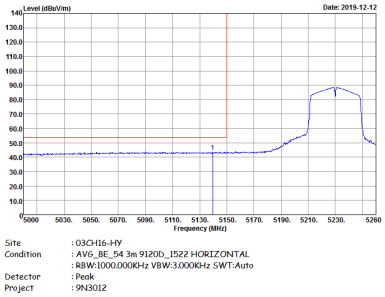
WIFI 802.11n HT40 (Band Edge @ 3m)

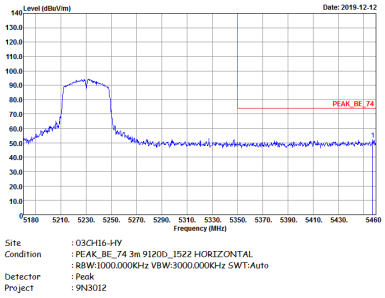
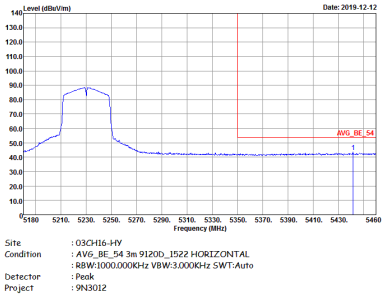
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

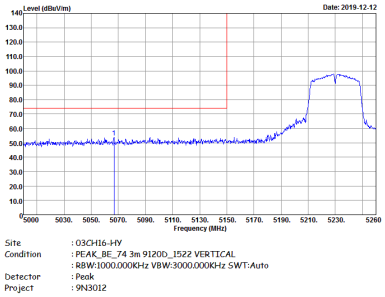
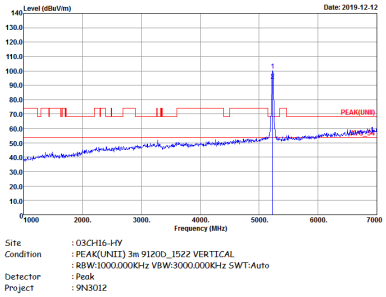
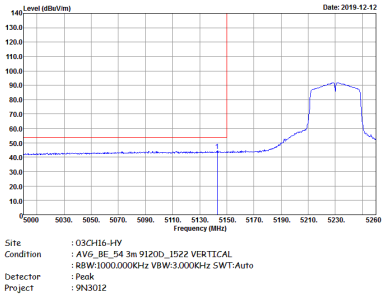
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

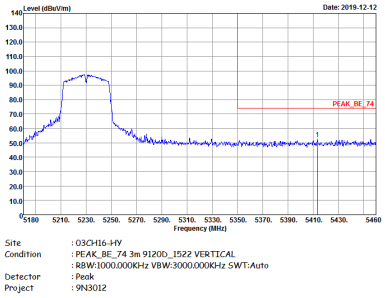
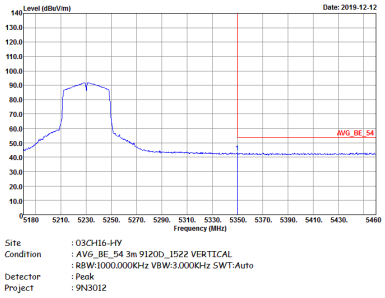
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

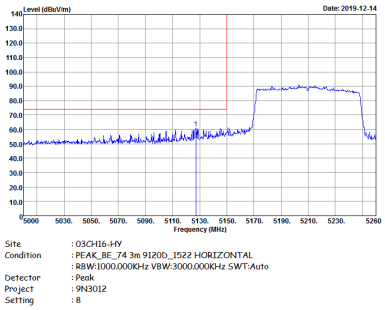
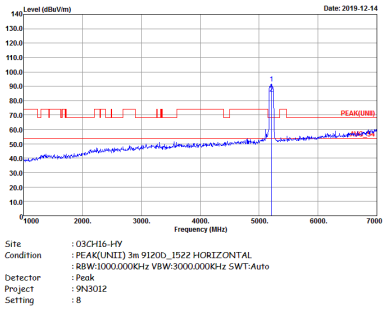
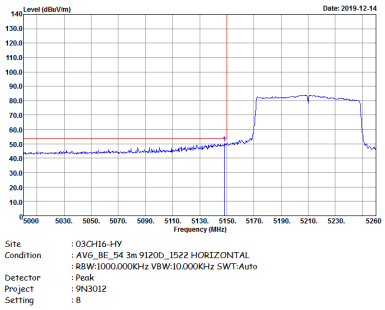
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

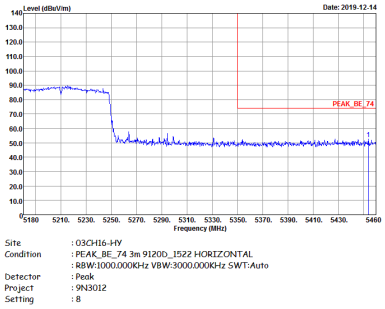
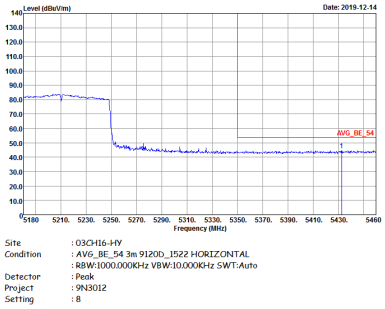
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

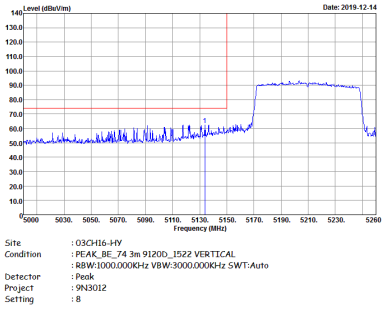
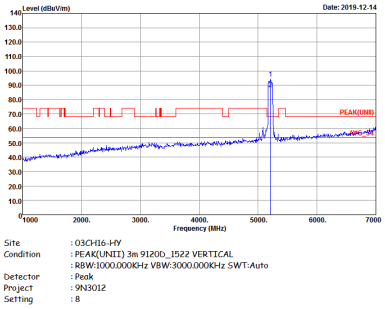
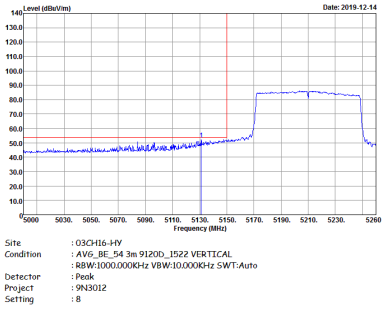
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

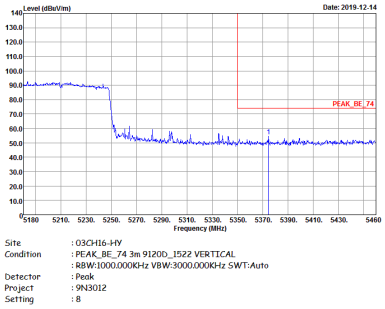
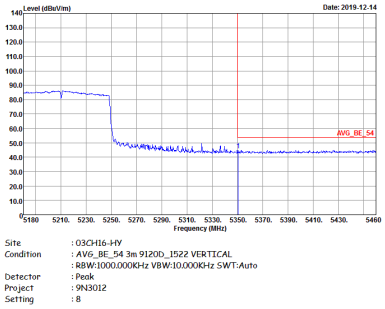
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

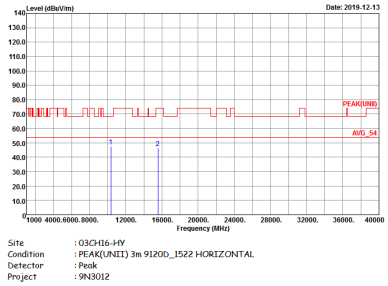
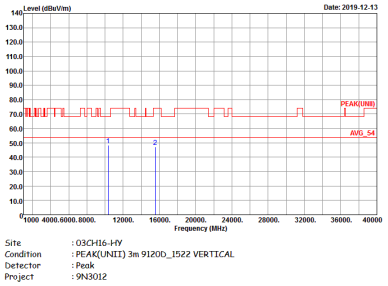
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

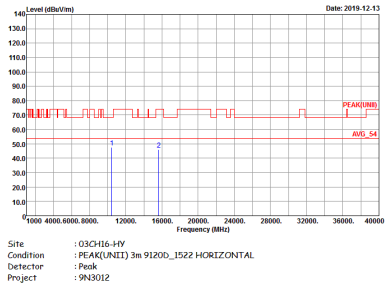
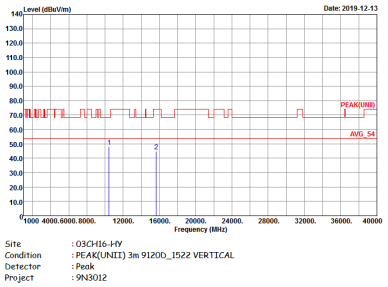
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

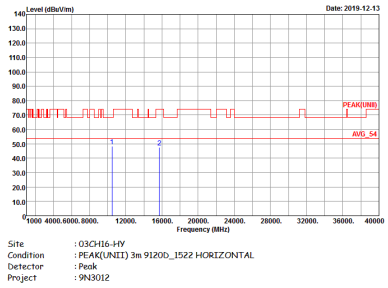
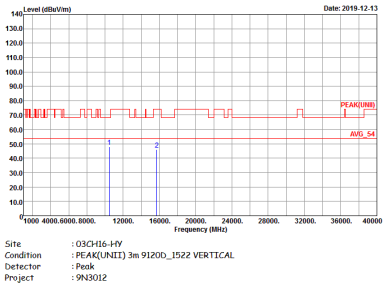
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

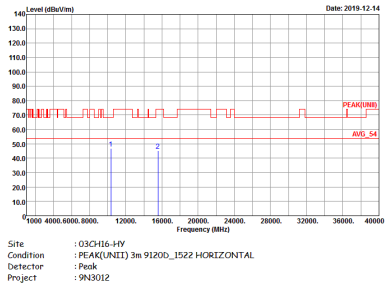
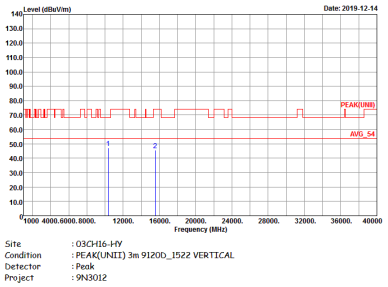
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

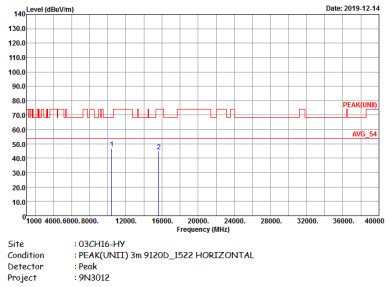
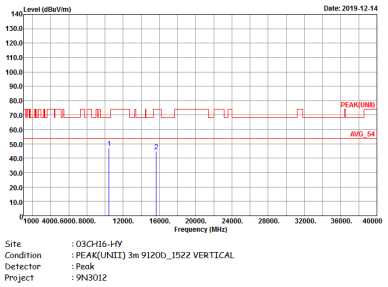
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

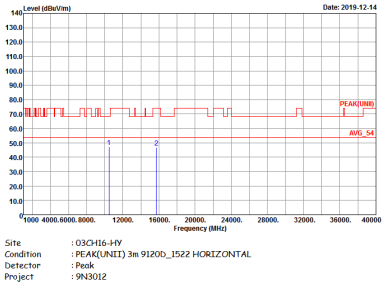
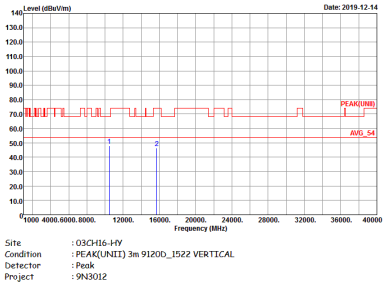
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

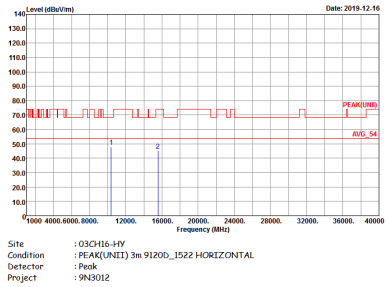
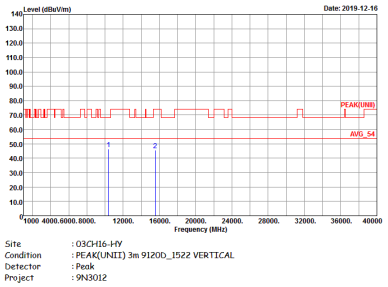
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

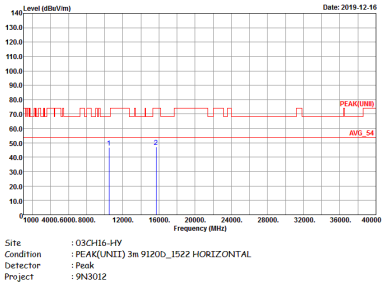
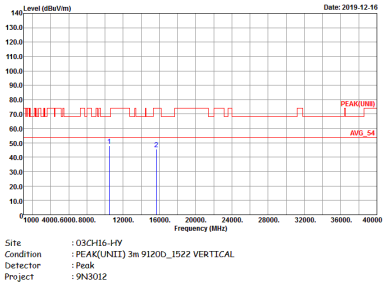
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

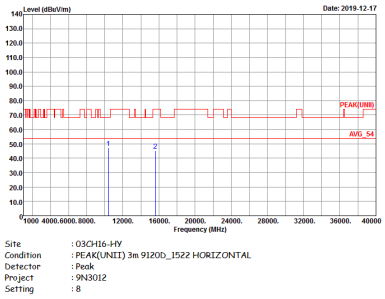
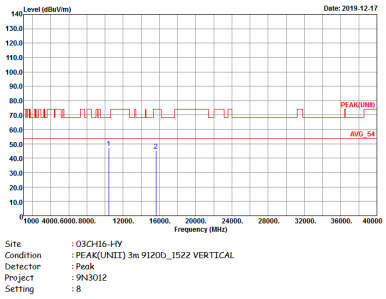
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

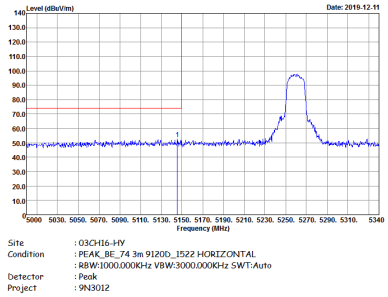
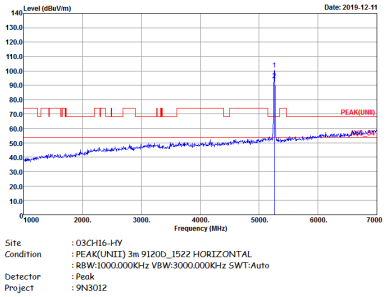
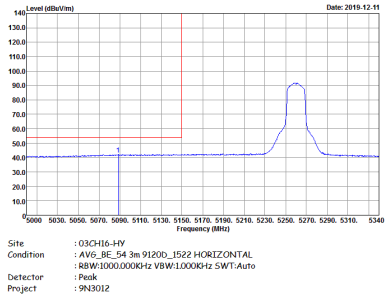
Band 1 5150~5250MHz

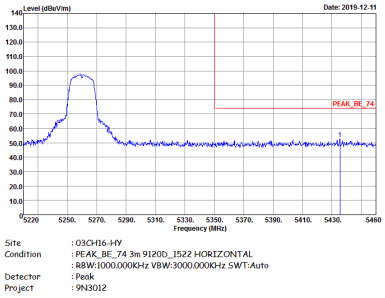
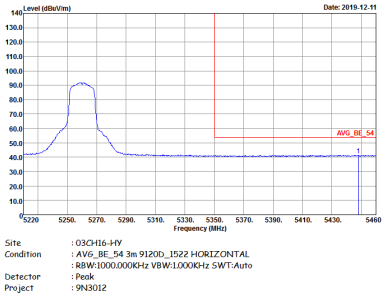
WIFI 802.11ac VHT80 (Harmonic @ 3m)

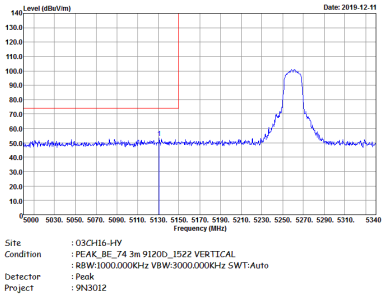
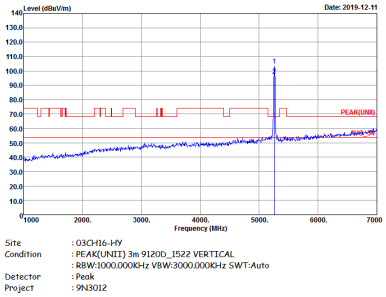
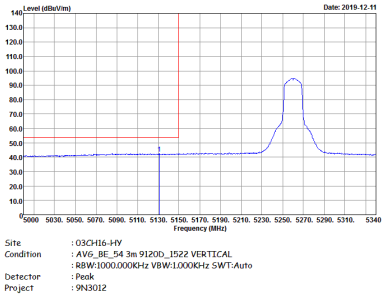
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.		

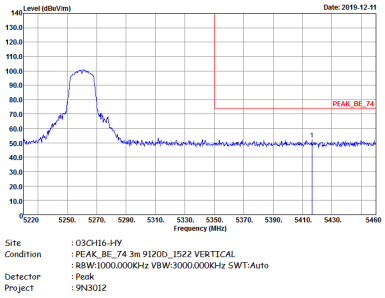
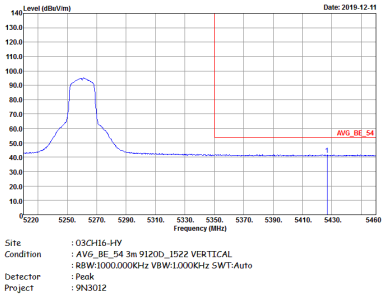
Band 2 - 5250~5350MHz

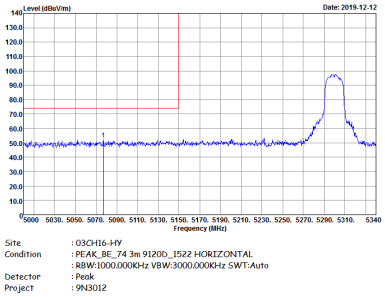
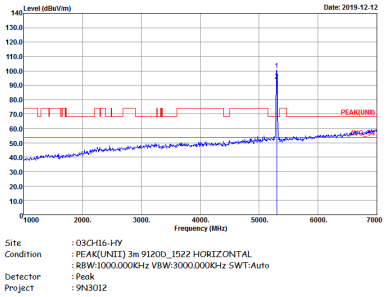
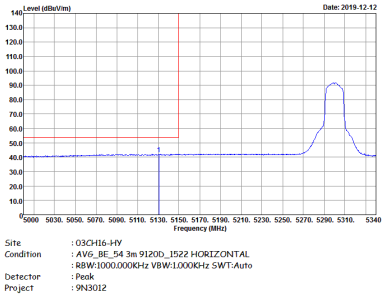
WIFI 802.11a (Band Edge @ 3m)

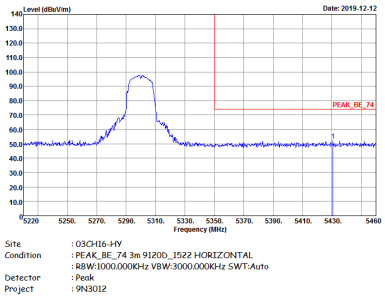
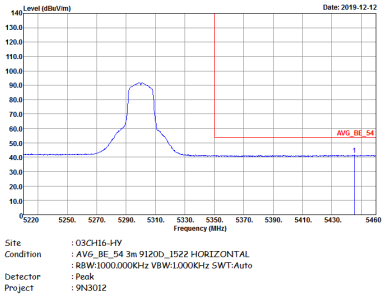
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

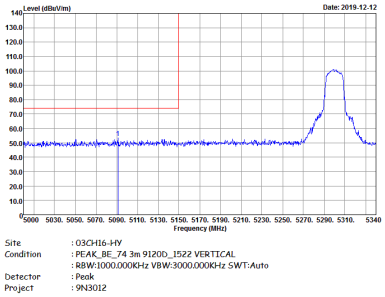
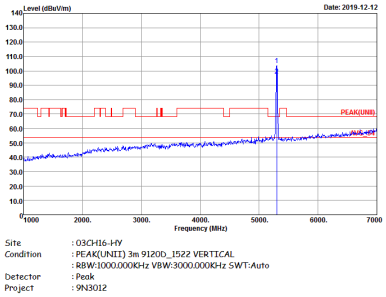
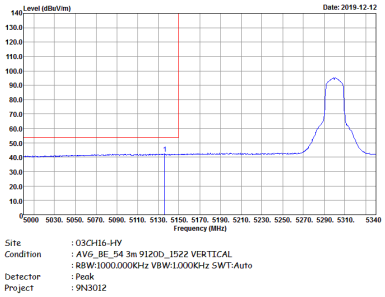
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

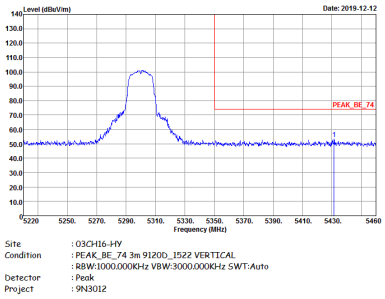
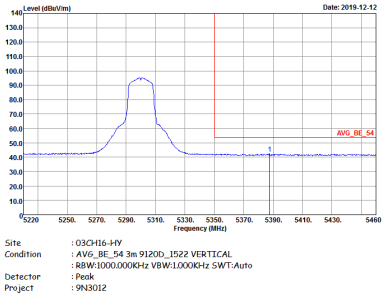
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

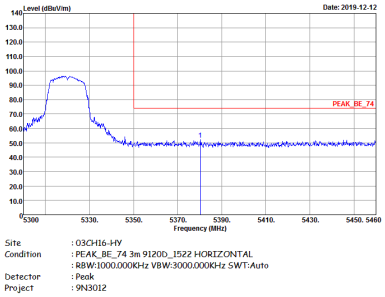
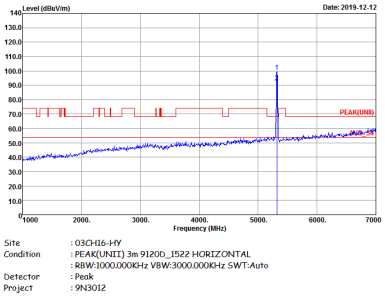
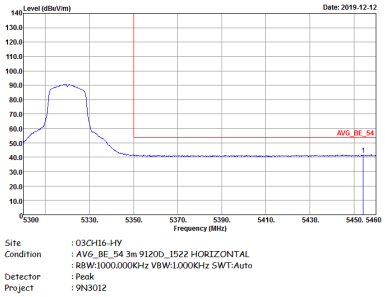
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

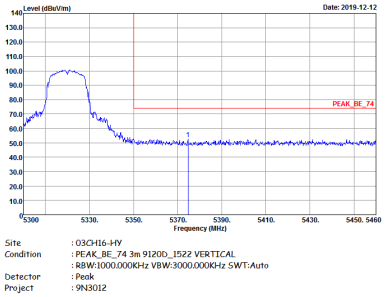
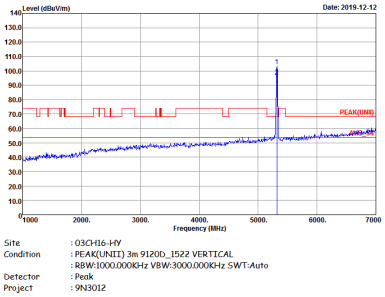
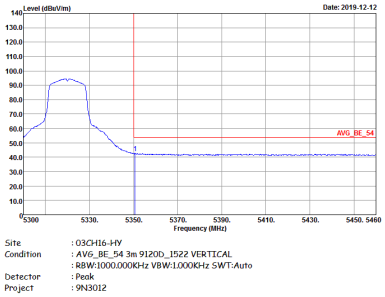
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

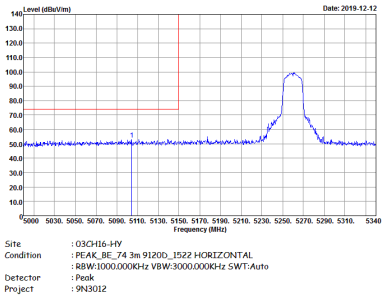
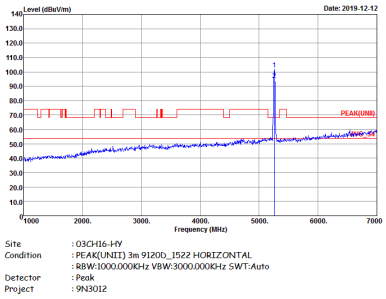
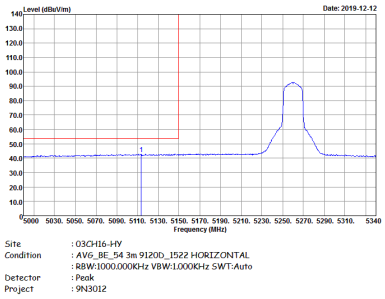
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

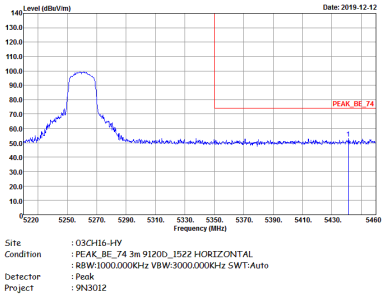
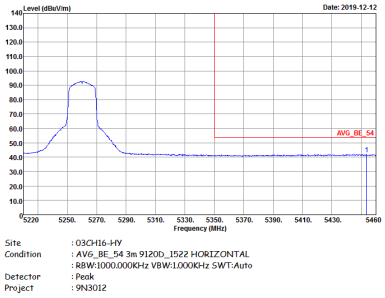
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

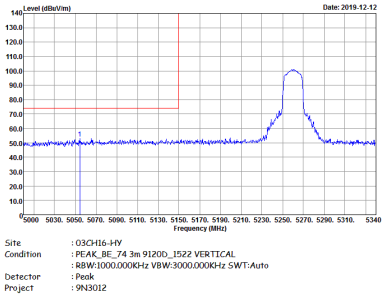
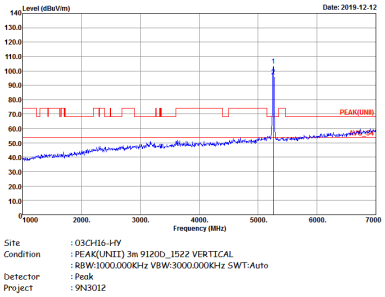
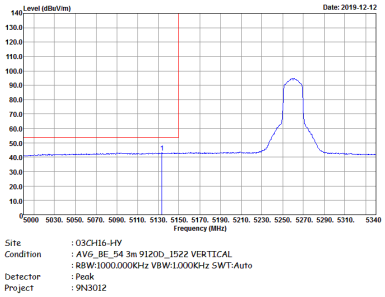
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

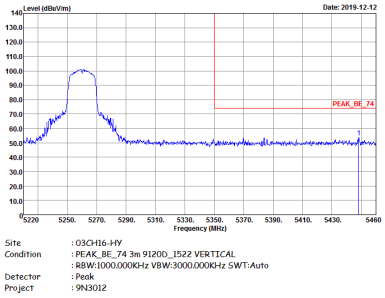
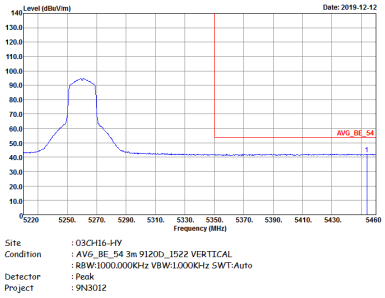
Band 2 5250~5350MHz

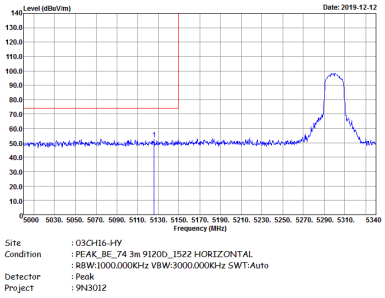
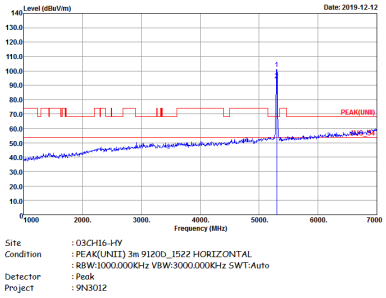
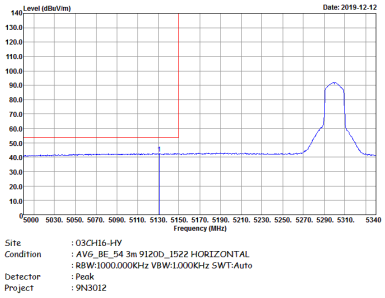
WIFI 802.11n HT20 (Band Edge @ 3m)

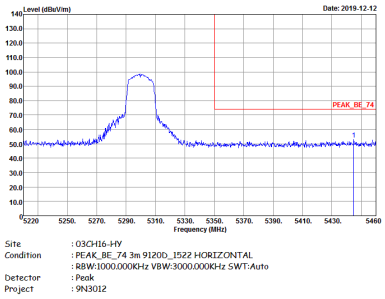
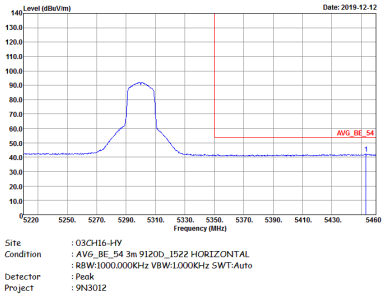
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

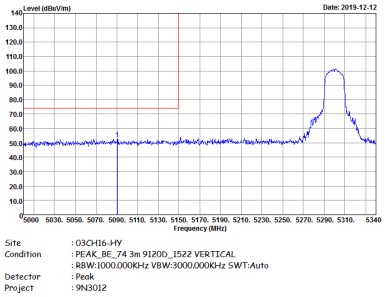
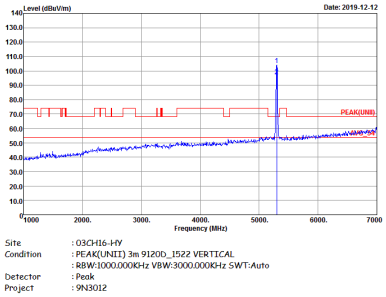
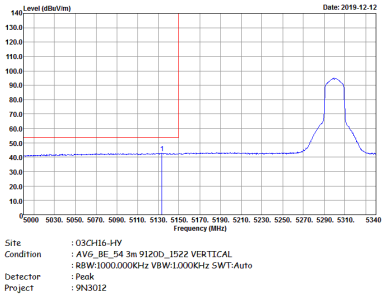
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

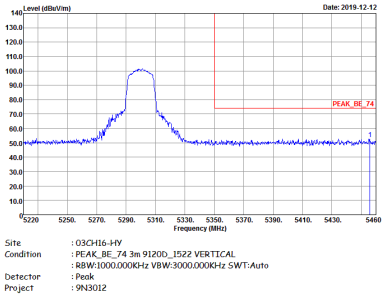
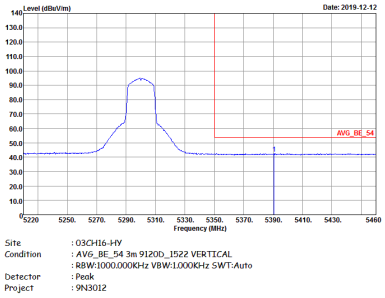
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

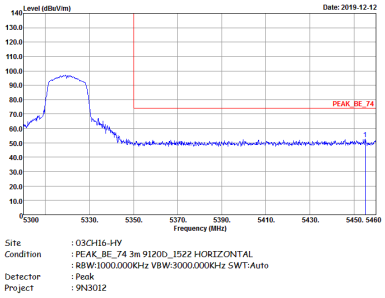
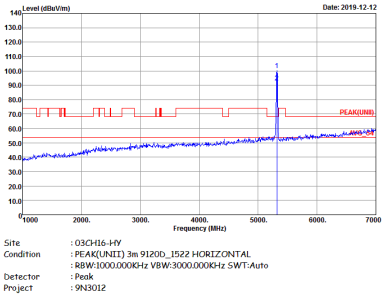
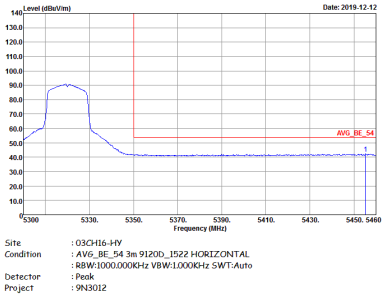
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

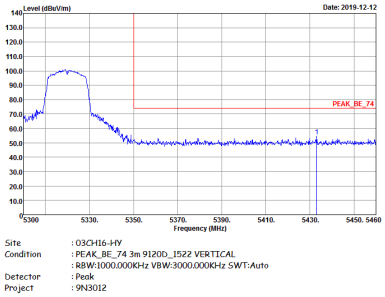
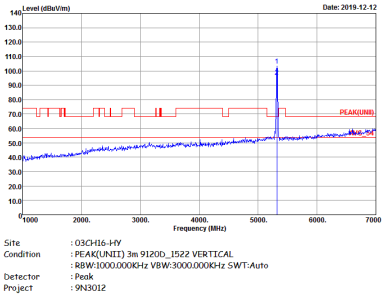
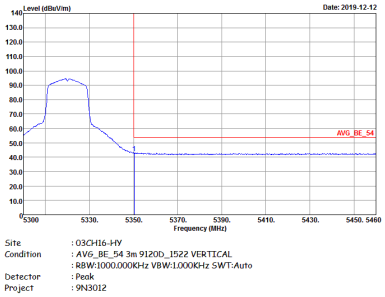
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

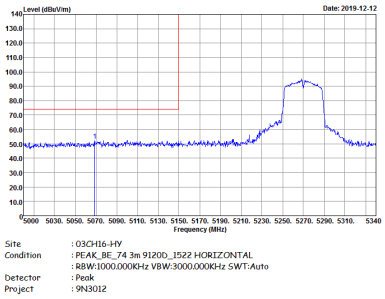
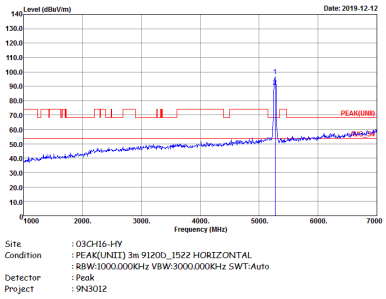
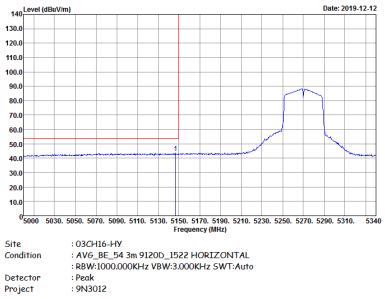
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

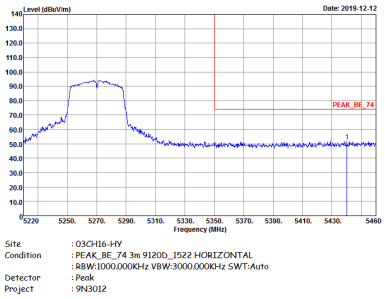
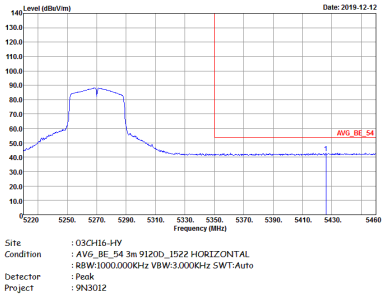
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

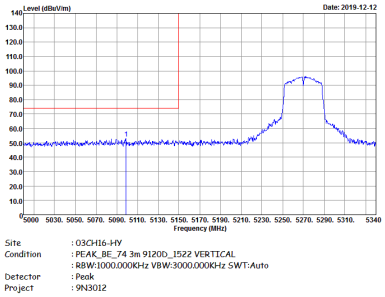
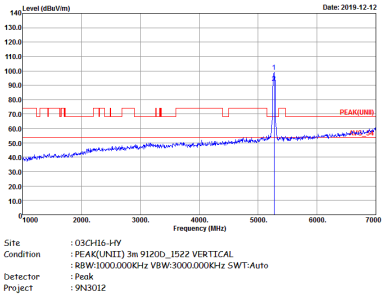
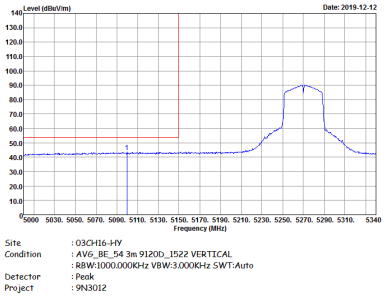
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

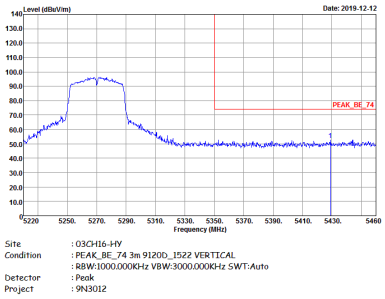
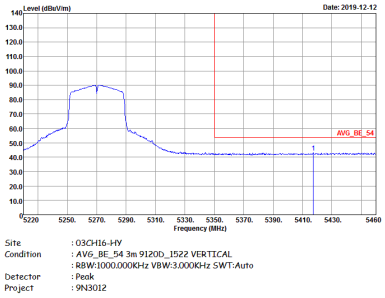
Band 2 5250~5350MHz

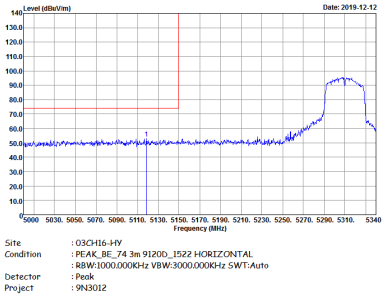
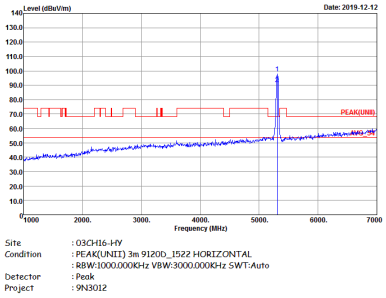
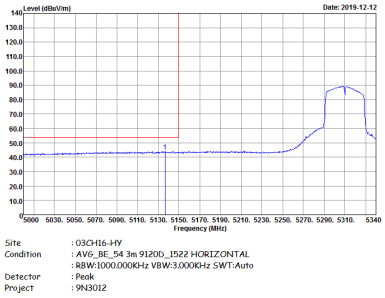
WIFI 802.11n HT40 (Band Edge @ 3m)

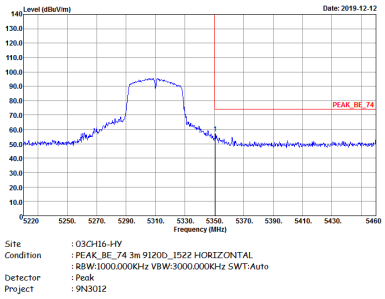
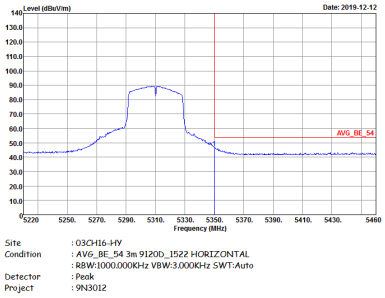
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

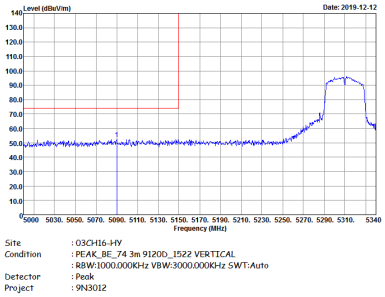
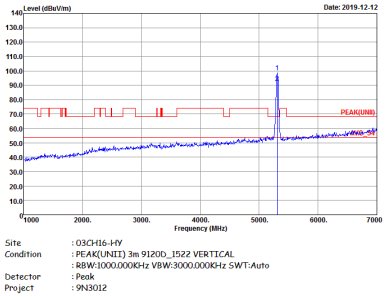
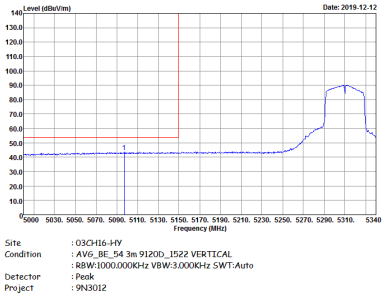
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

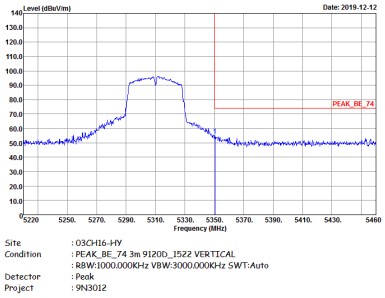
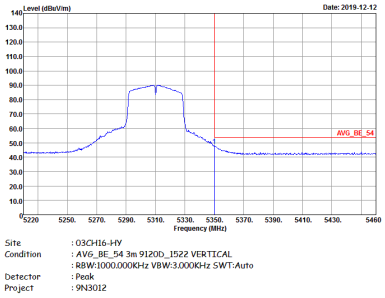
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

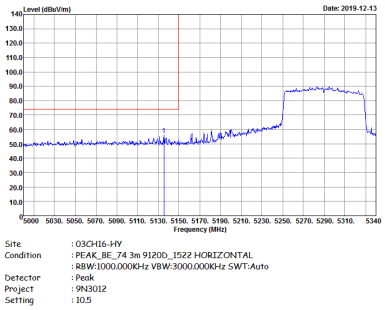
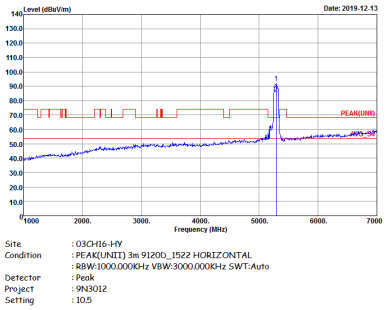
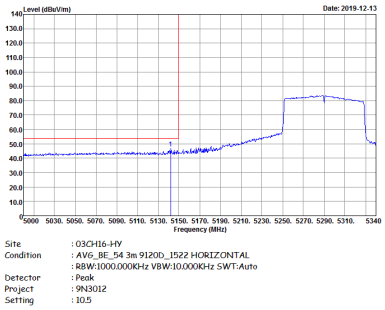
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

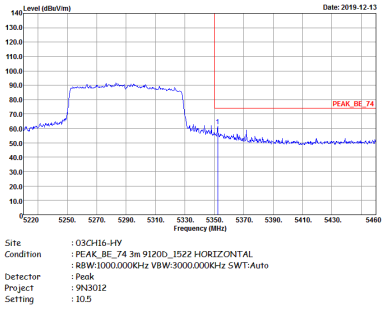
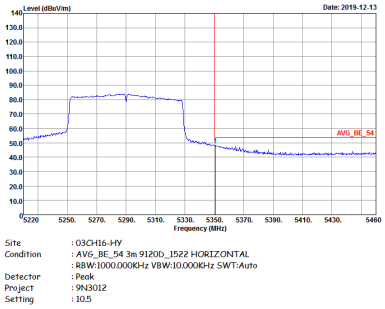
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

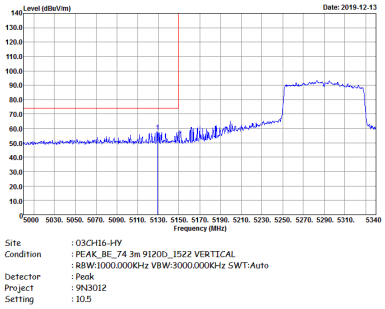
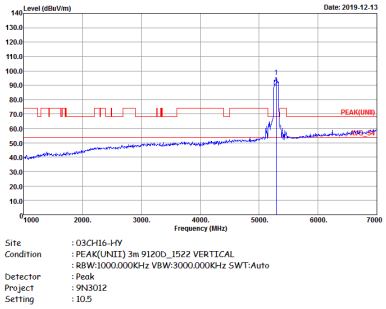
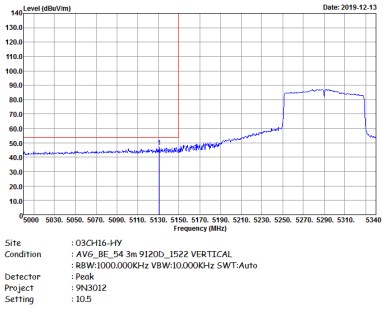
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

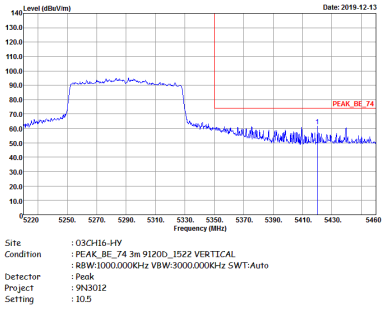
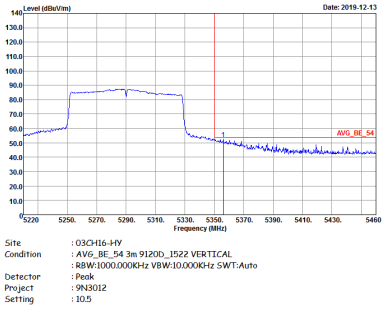
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

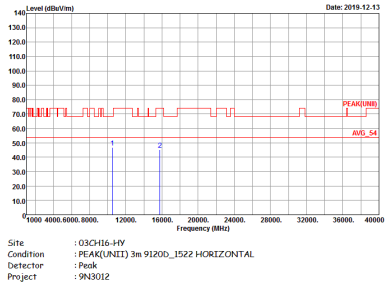
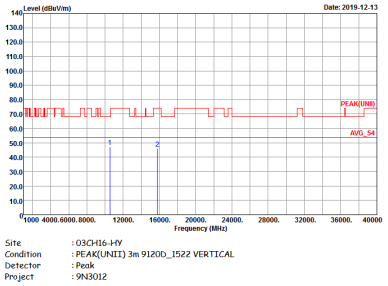
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

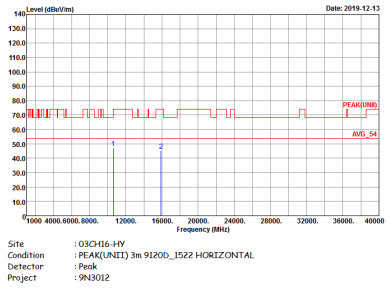
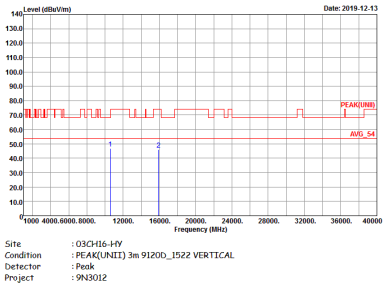
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

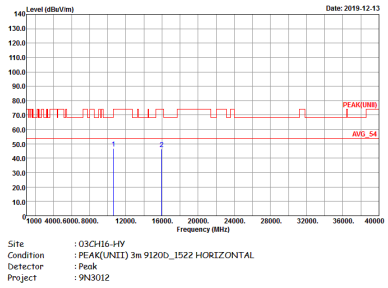
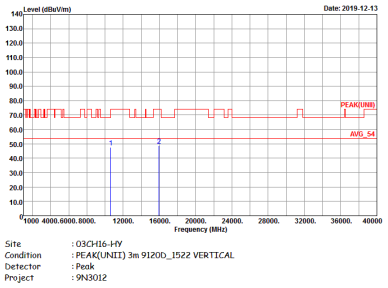
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

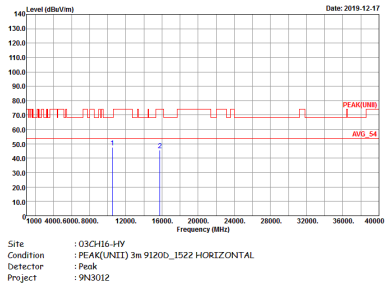
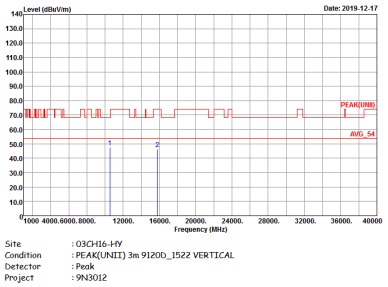
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

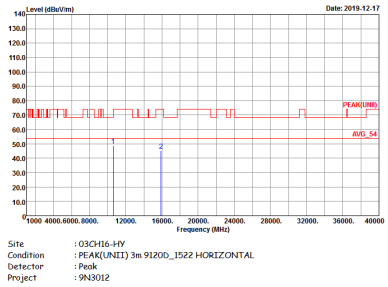
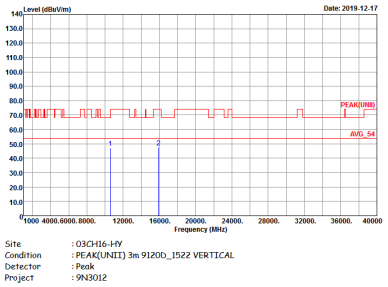
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

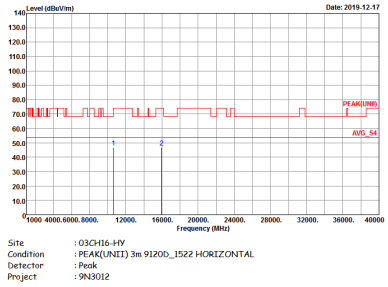
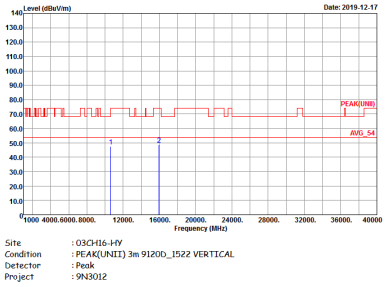
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

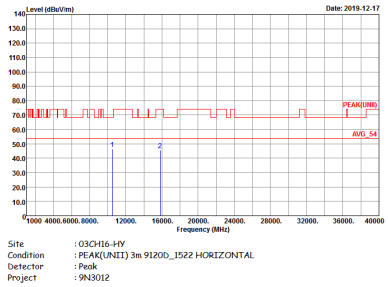
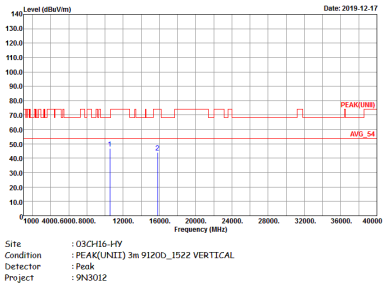
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

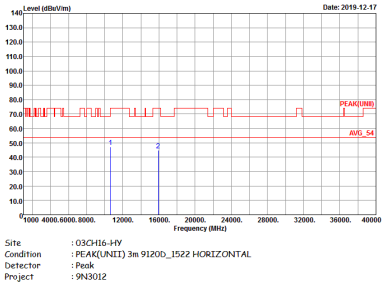
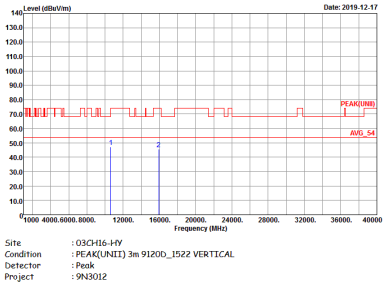
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

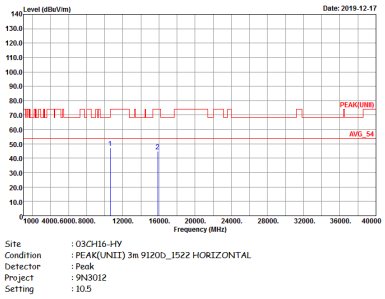
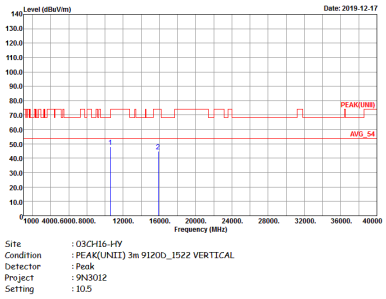
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

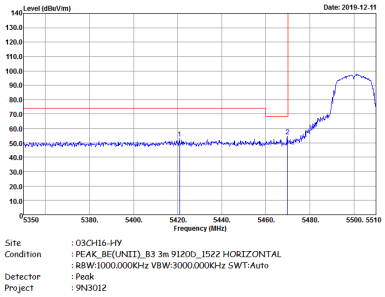
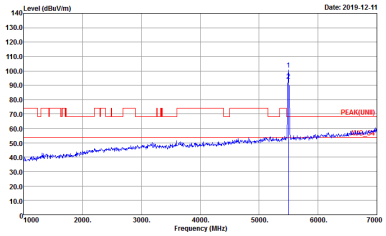
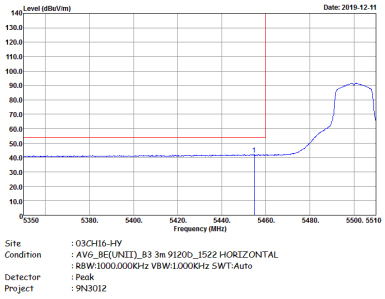
Band 2 5250~5350MHz

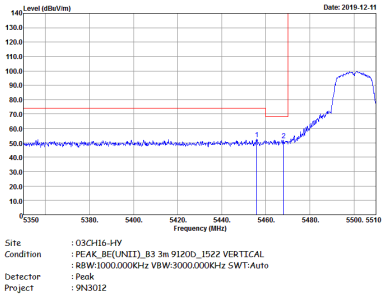
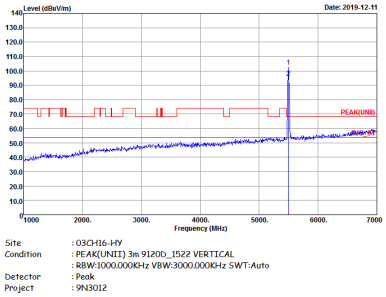
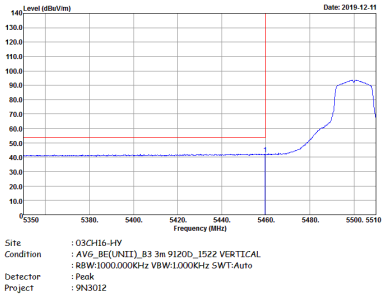
WIFI 802.11ac VHT80 (Harmonic @ 3m)

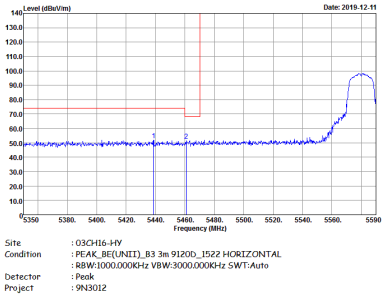
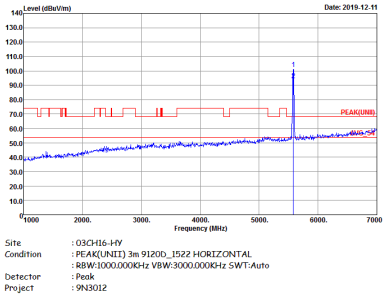
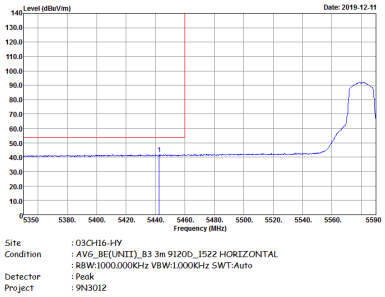
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1	Horizontal	Vertical
Peak Avg.		

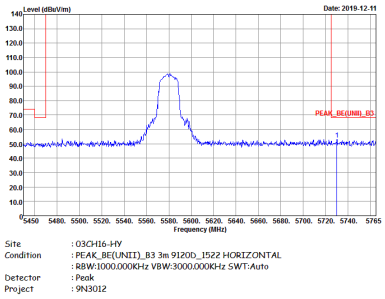
Band 3 - 5470~5725MHz

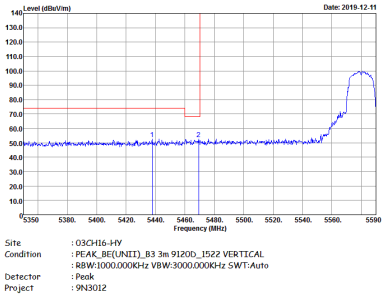
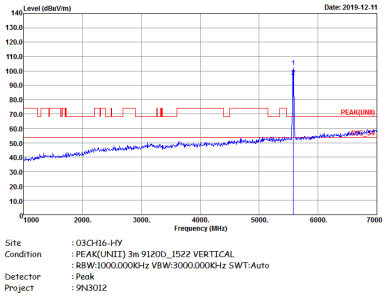
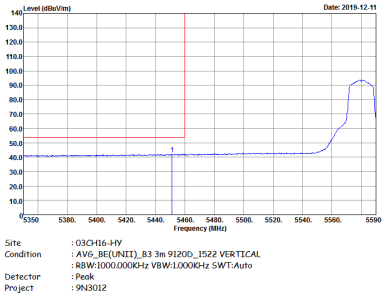
WIFI 802.11a (Band Edge @ 3m)

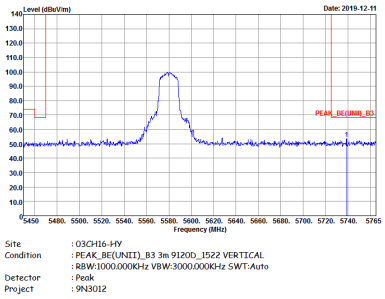
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

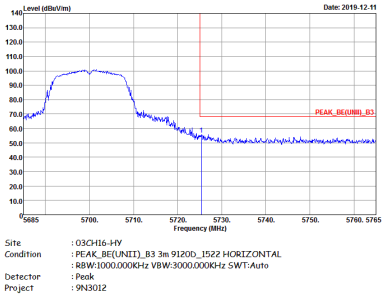
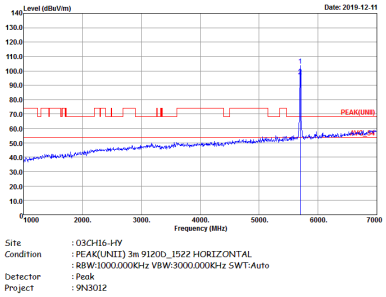
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

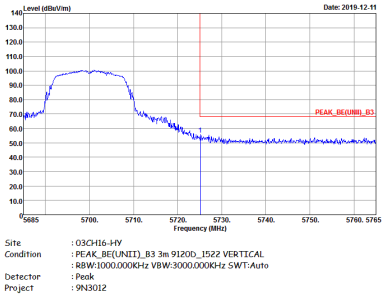
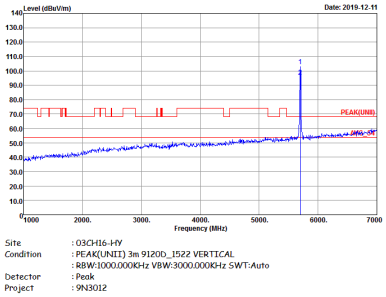
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

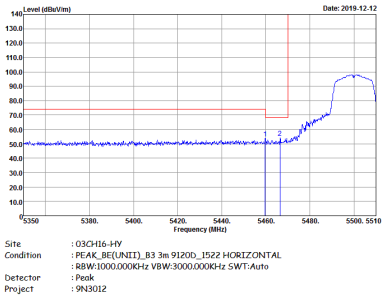
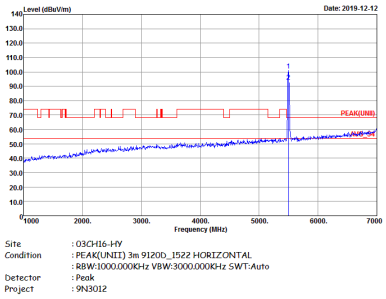
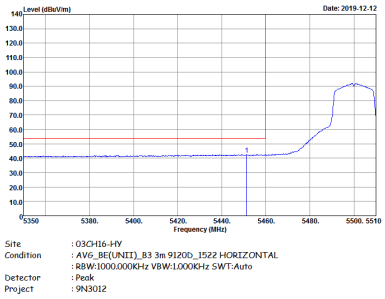
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

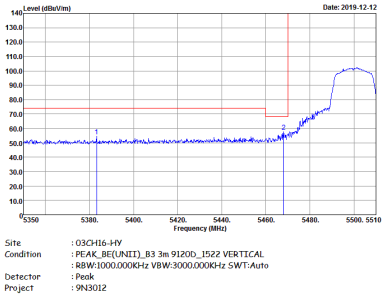
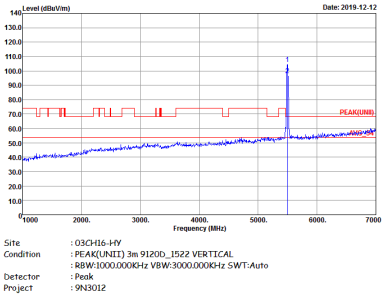
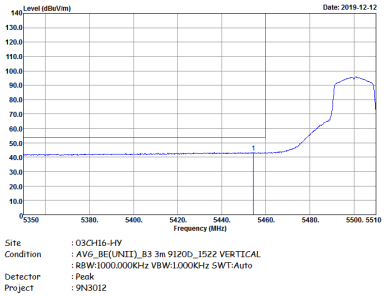
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

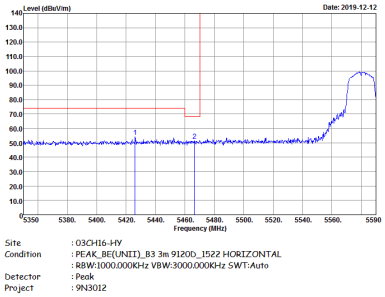
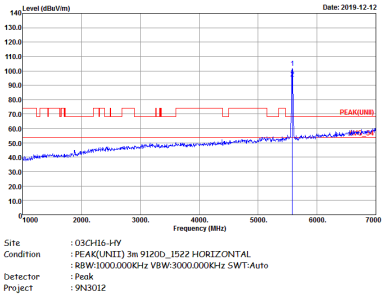
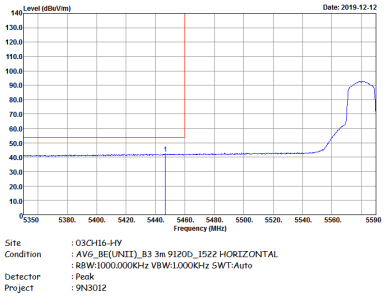
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

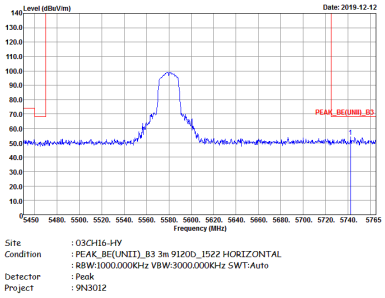
Band 3 5470~5725MHz

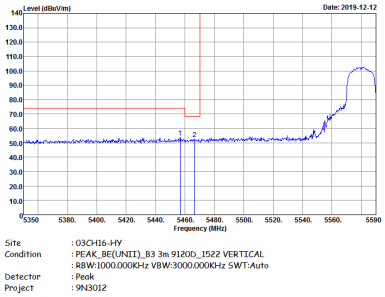
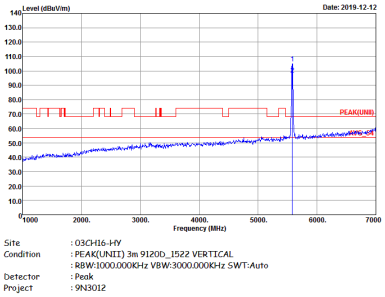
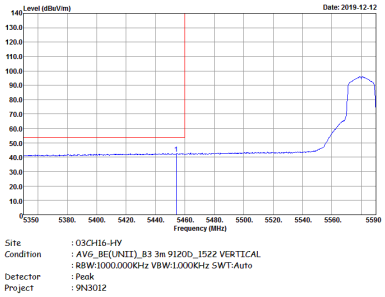
WIFI 802.11n HT20 (Band Edge @ 3m)

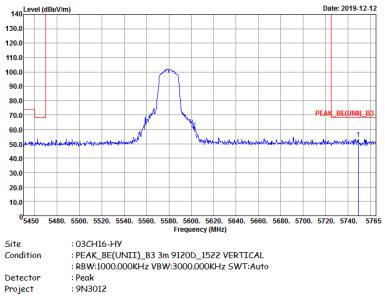
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

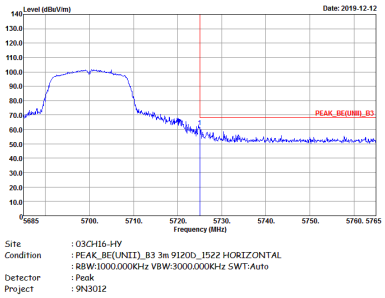
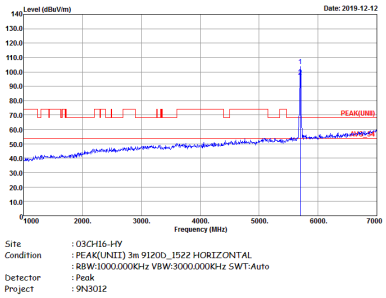
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

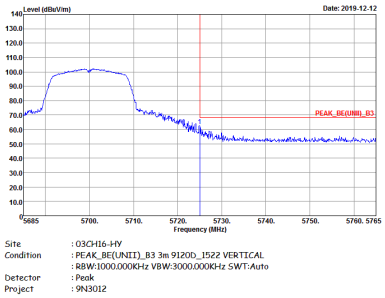
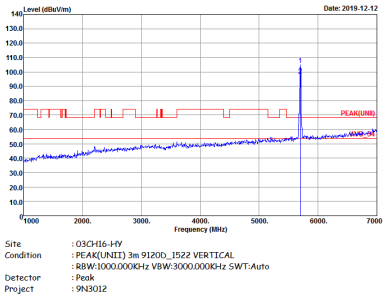
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

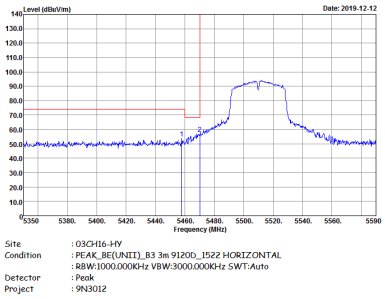
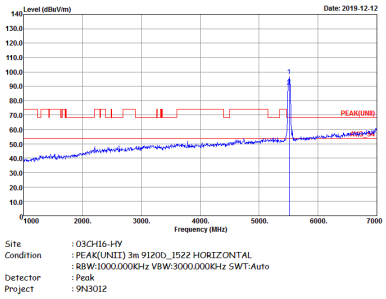
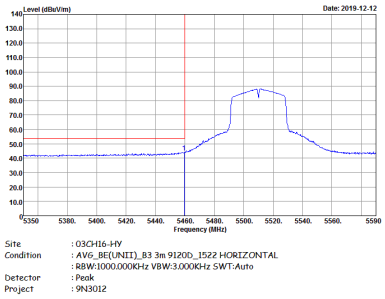
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

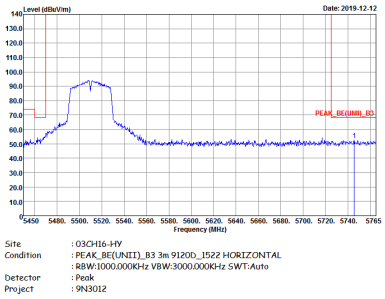
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

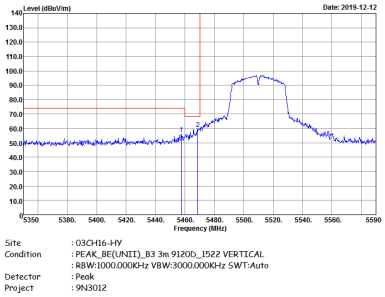
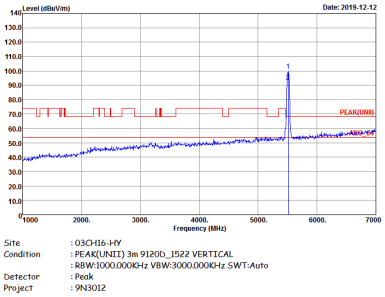
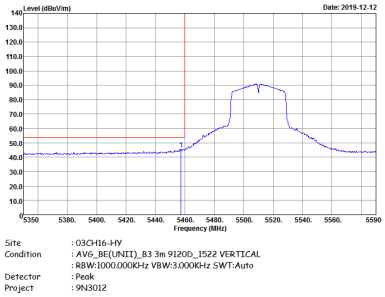
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

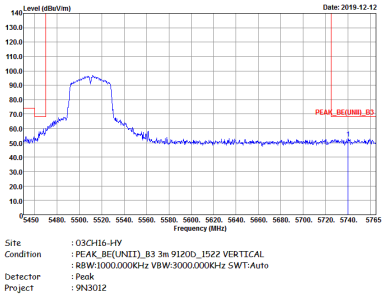
Band 3 5470~5725MHz

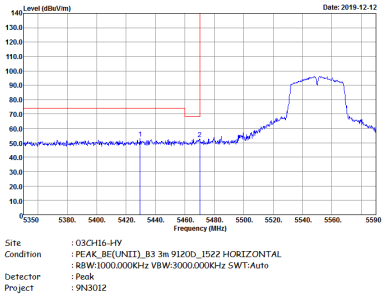
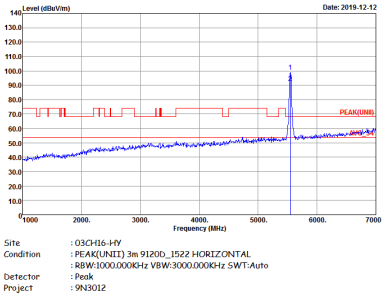
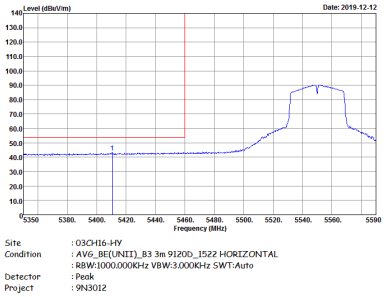
WIFI 802.11n HT40 (Band Edge @ 3m)

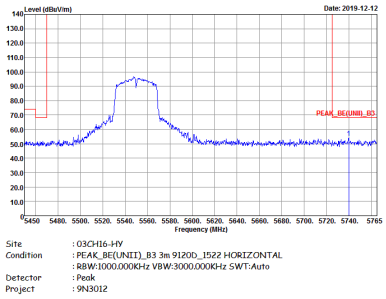
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

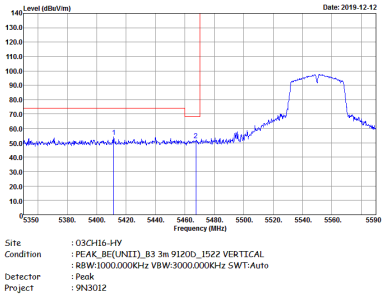
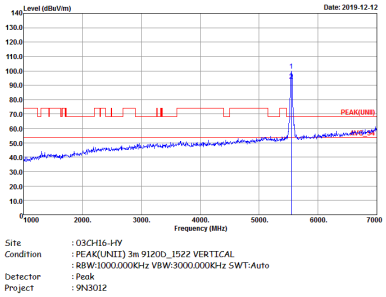
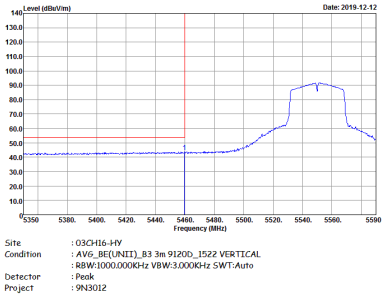
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

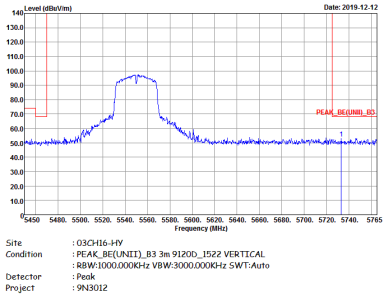
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

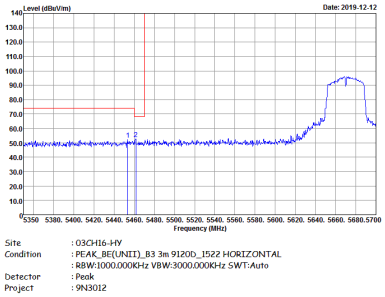
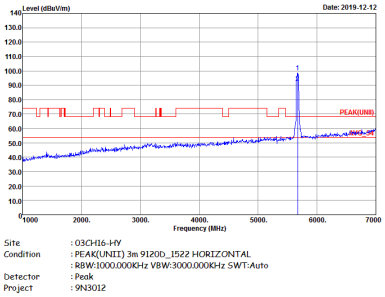
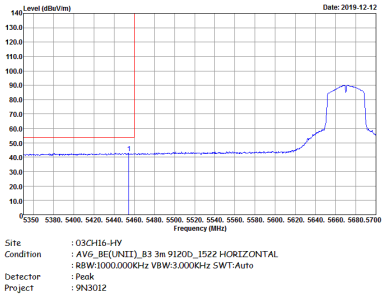
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

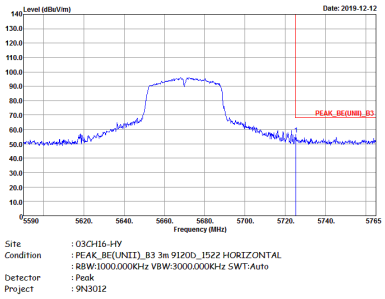
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

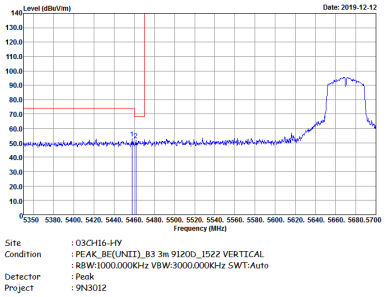
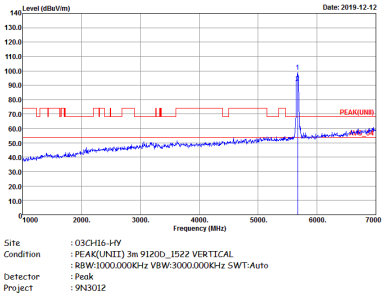
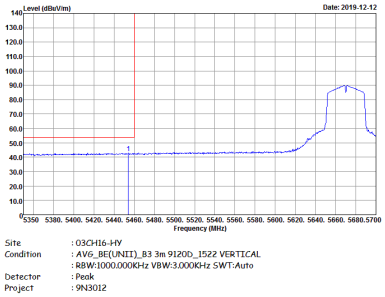
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

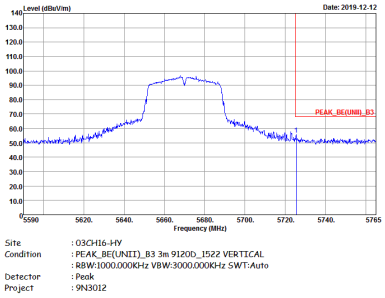
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

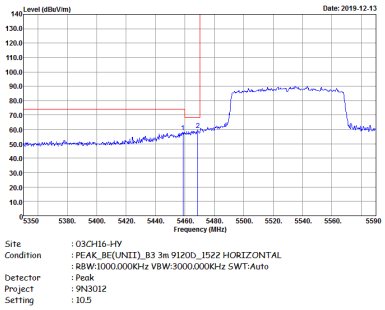
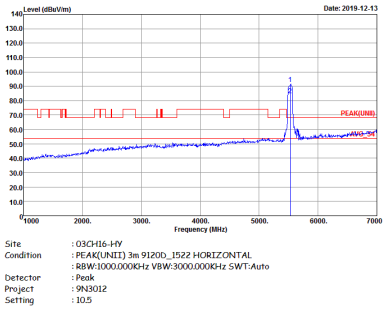
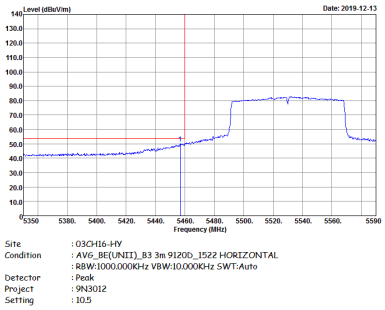
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 9N3012	Left blank

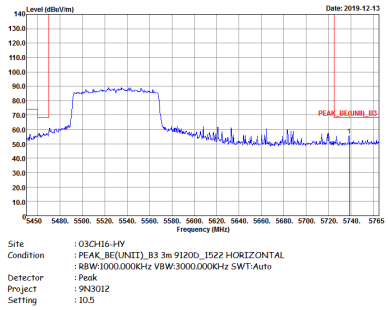
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

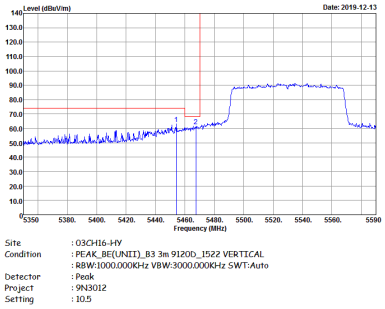
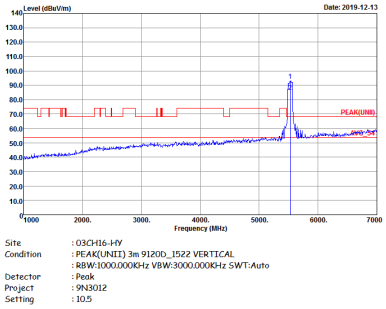
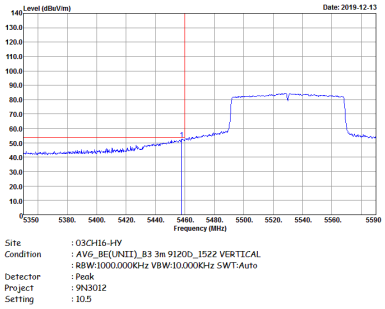
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

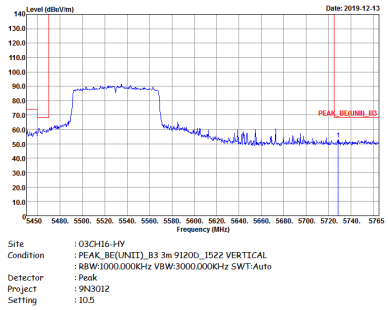
Band 3 5470~5725MHz

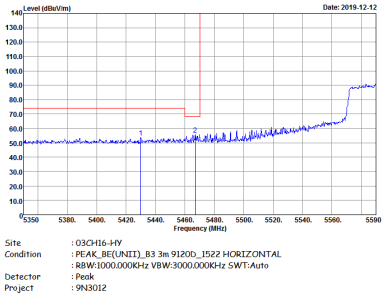
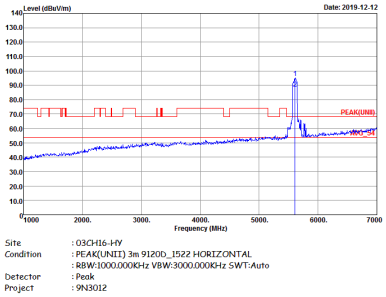
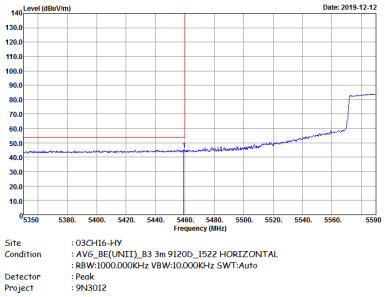
WIFI 802.11ac VHT80 (Band Edge @ 3m)

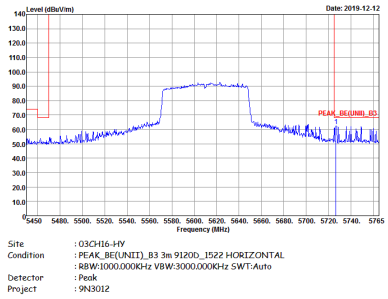
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

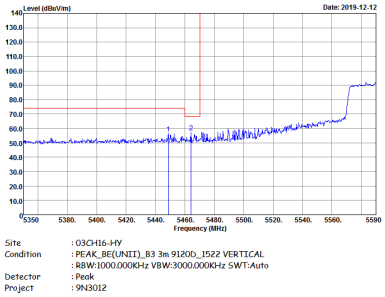
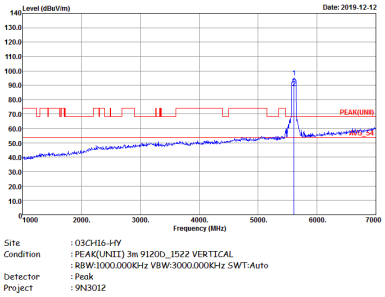
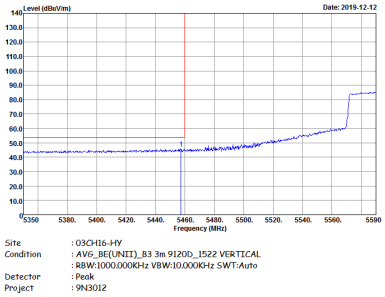
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

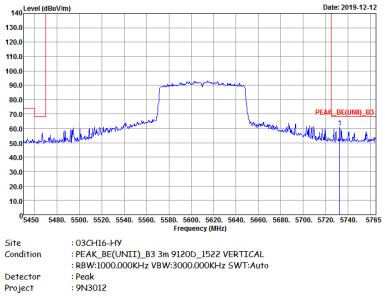
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

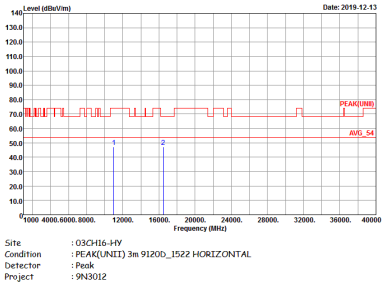
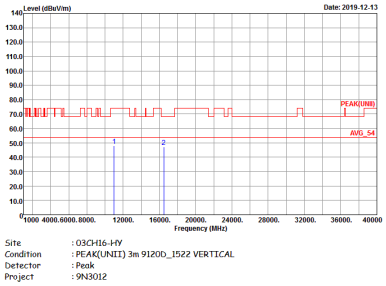
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

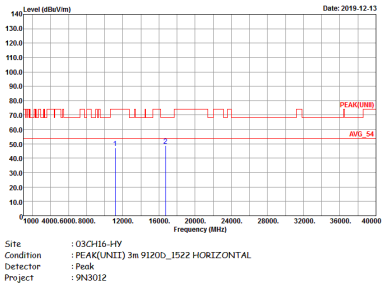
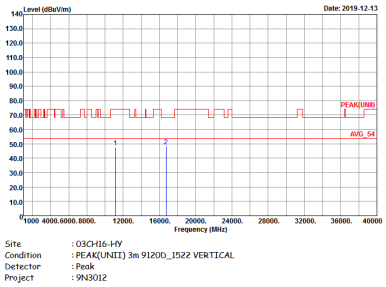
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

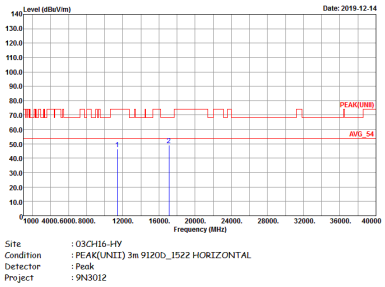
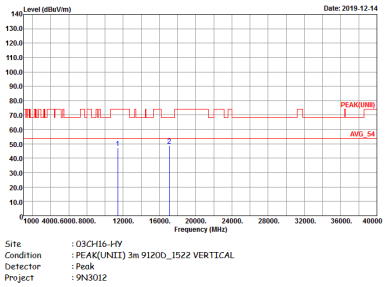
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

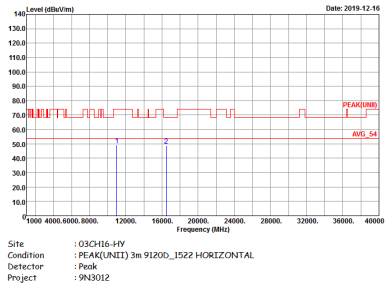
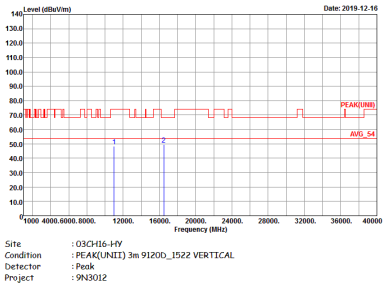
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

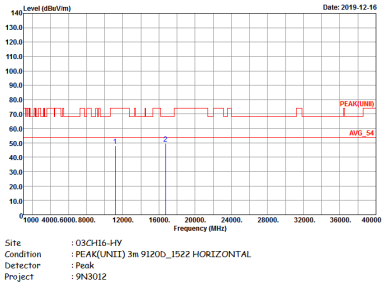
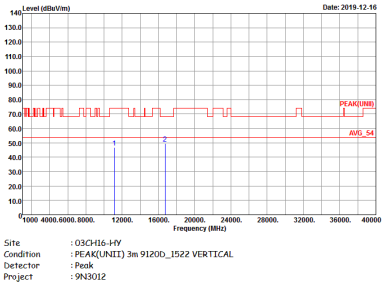
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

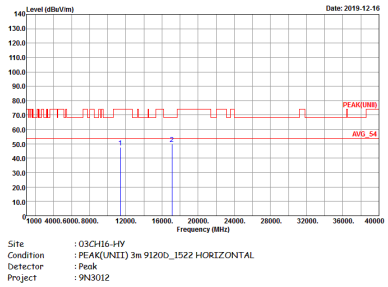
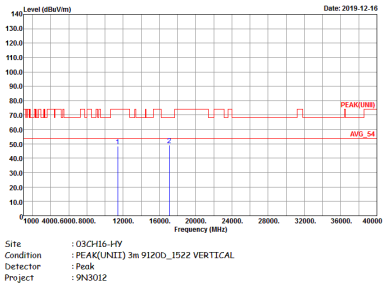
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

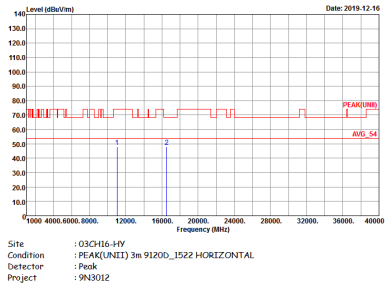
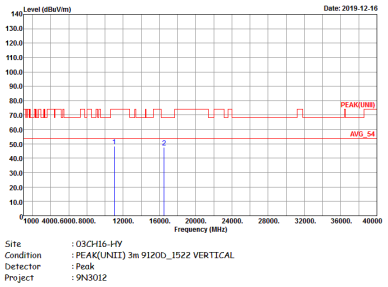
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

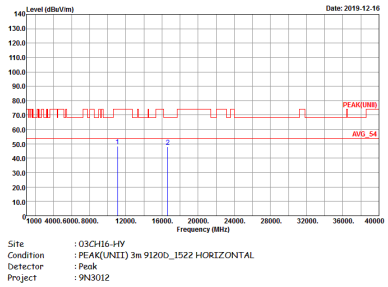
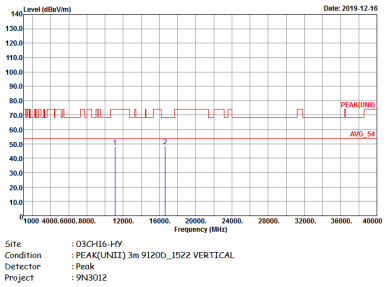
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

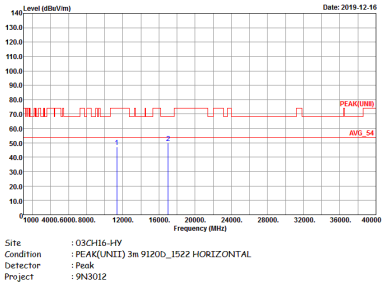
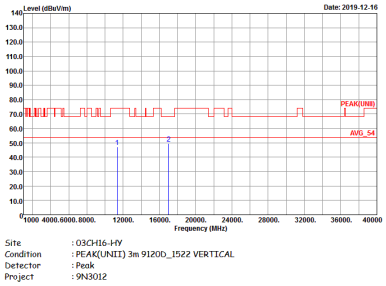
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

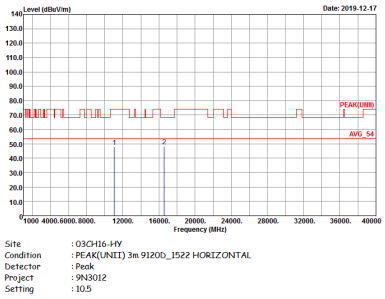
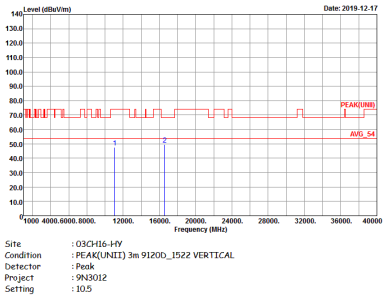
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

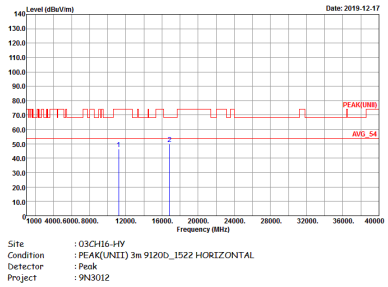
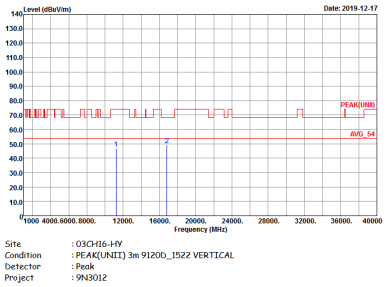
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

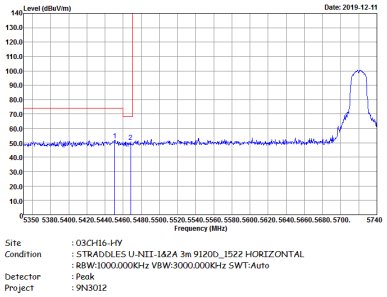
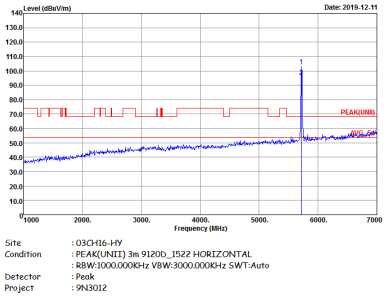
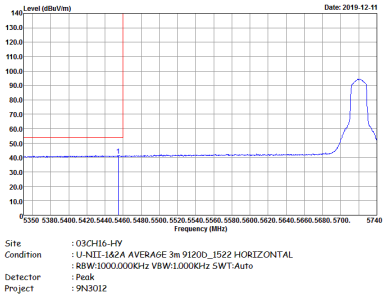
WIFI 802.11ac VHT80 (Harmonic @ 3m)

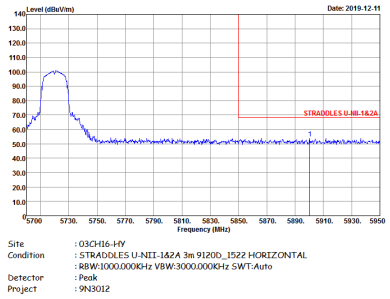
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak Avg.		

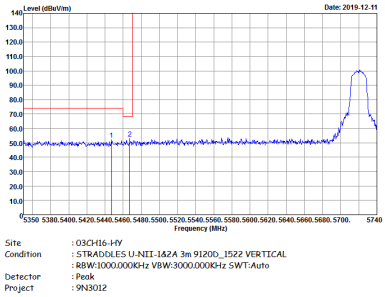
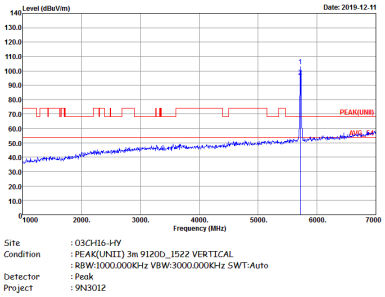
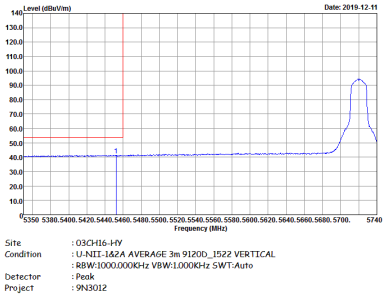
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1	Horizontal	Vertical
Peak Avg.		

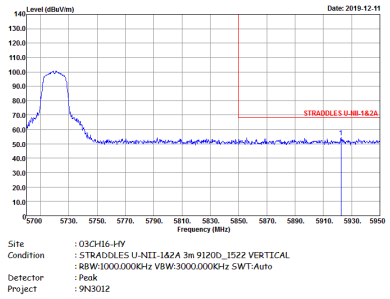
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

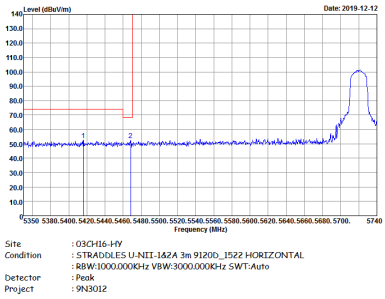
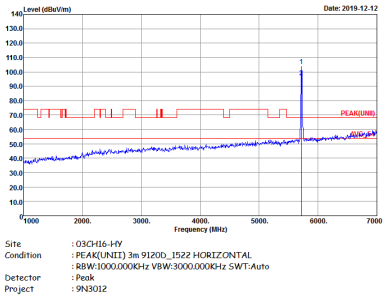
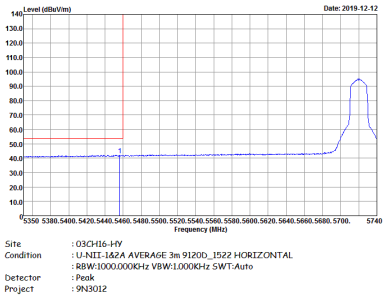
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

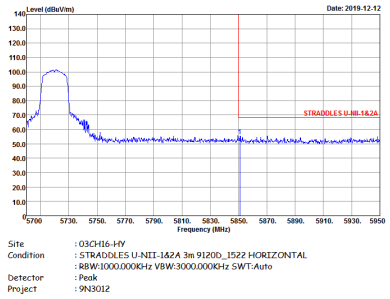
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

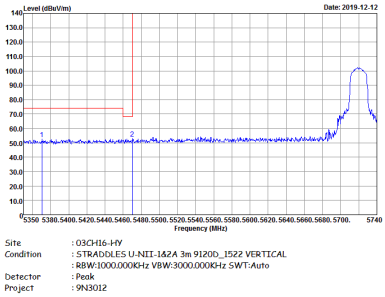
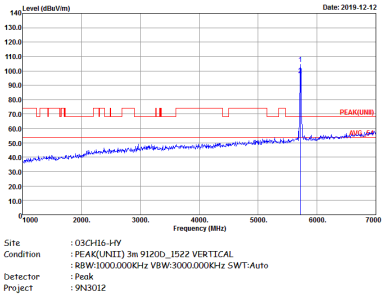
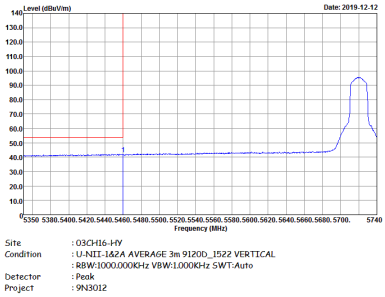
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank

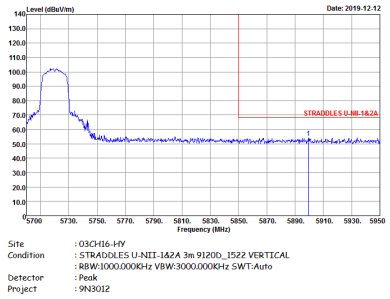
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

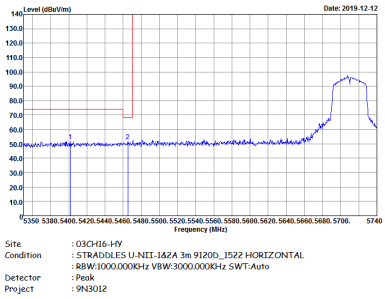
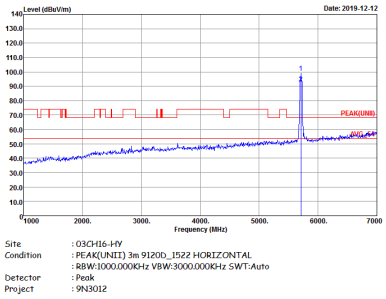
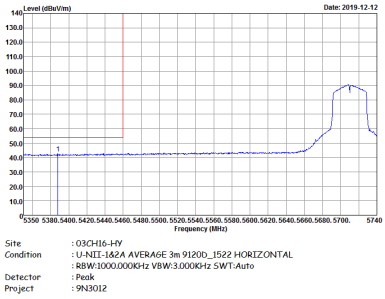
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

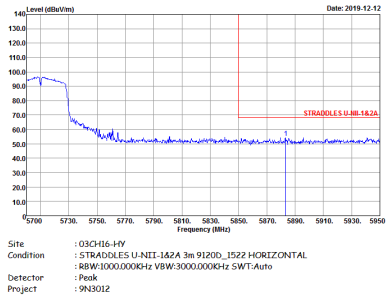
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

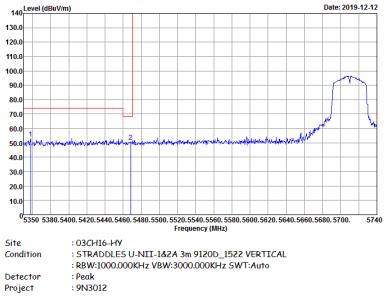
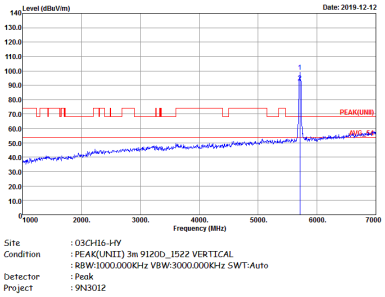
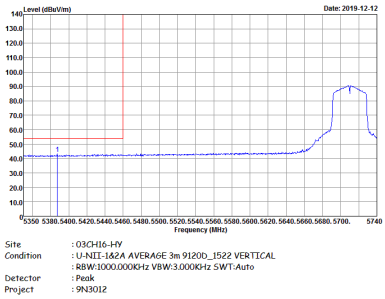
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank

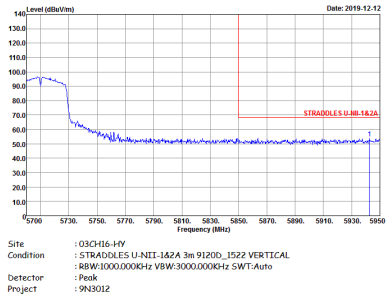
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

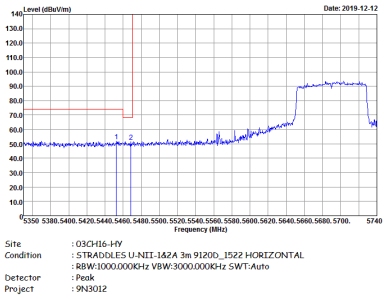
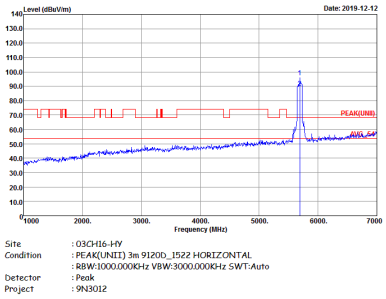
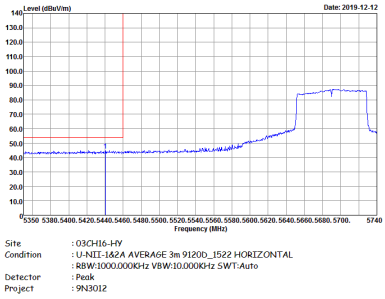
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

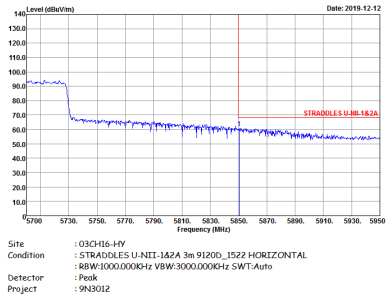
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

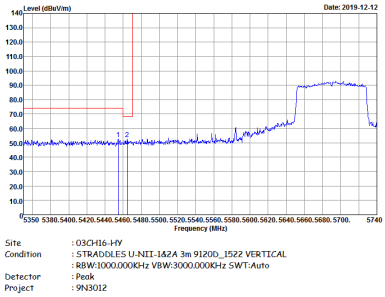
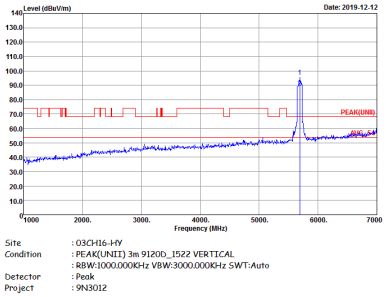
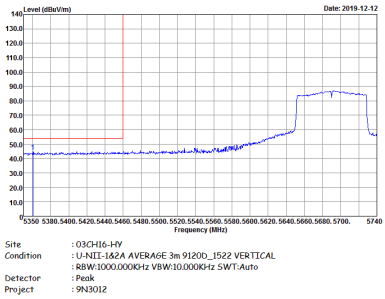
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz - R	
1	Vertical	Fundamental
Peak		Left blank

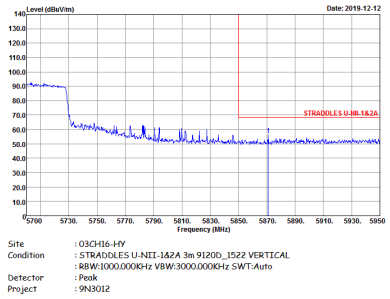
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

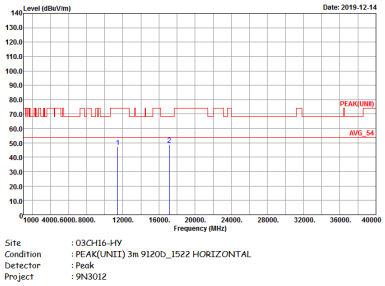
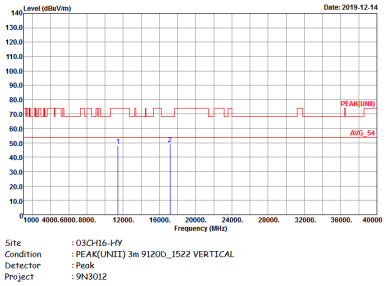
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz - R	
1	Vertical	Fundamental
Peak		Left blank

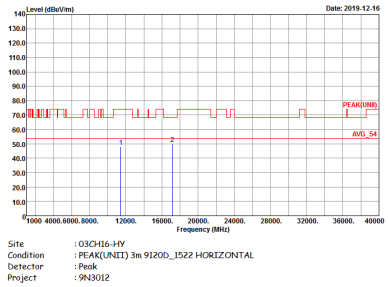
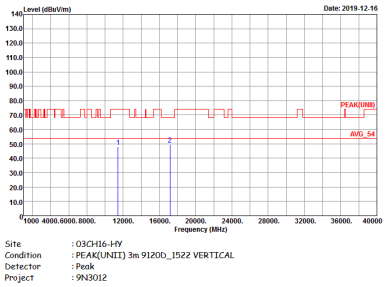
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

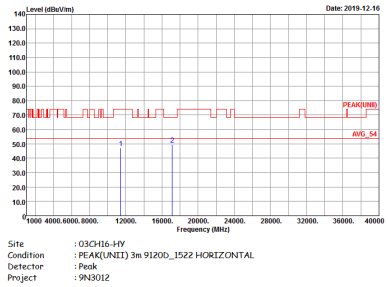
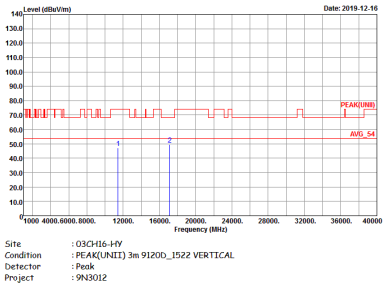
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

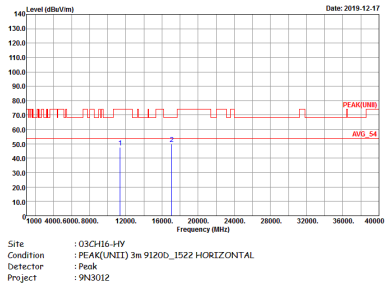
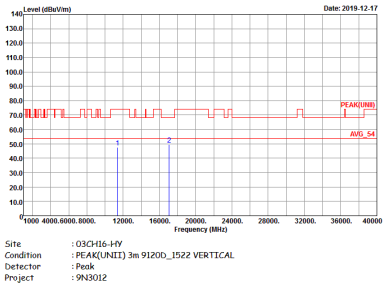
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

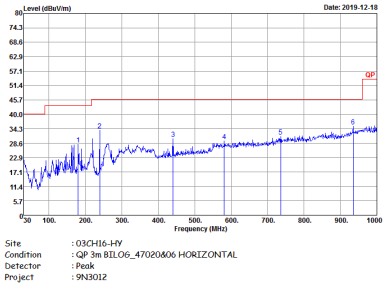
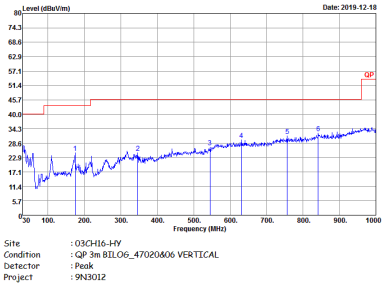
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

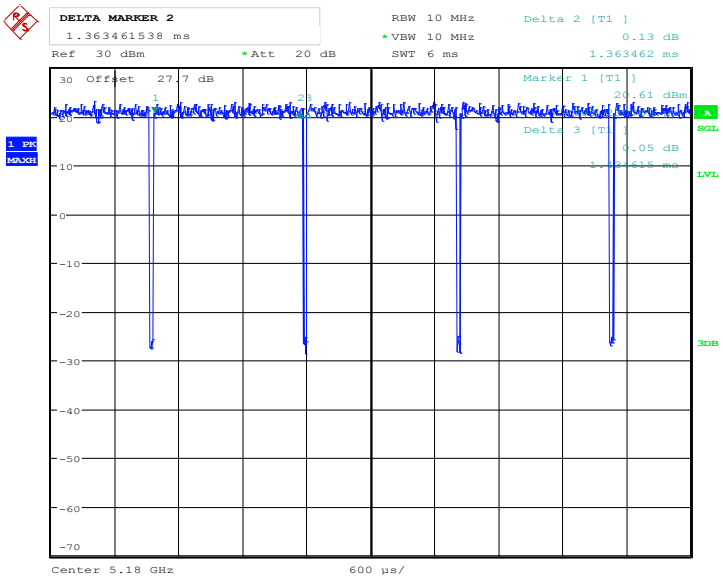
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

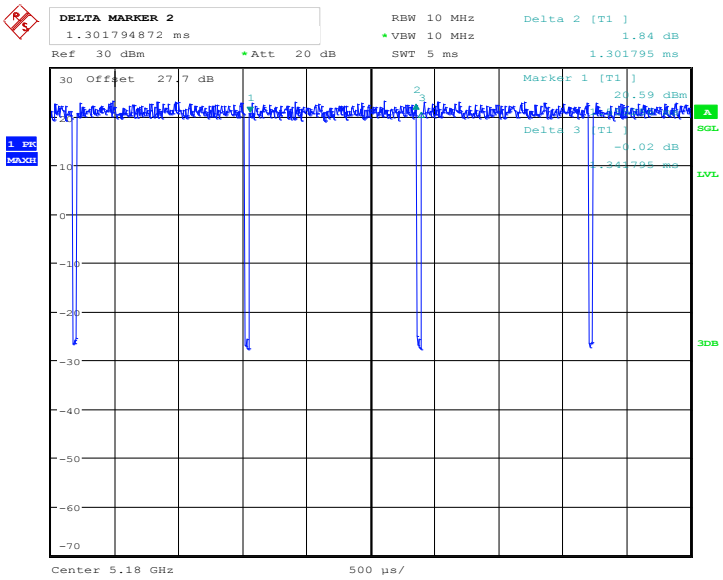
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	95.04	1363	0.73	1kHz	0.22
5GHz 802.11n HT20	97.02	1302	0.77	1kHz	0.13
5GHz 802.11n HT40	94.93	652	1.53	3kHz	0.23
5GHz 802.11ac VHT20	96.62	1320	0.76	1kHz	0.15
5GHz 802.11ac VHT40	94.38	653	1.53	3kHz	0.25
5GHz 802.11ac VHT80	88.91	319	3.14	10kHz	0.51

802.11a



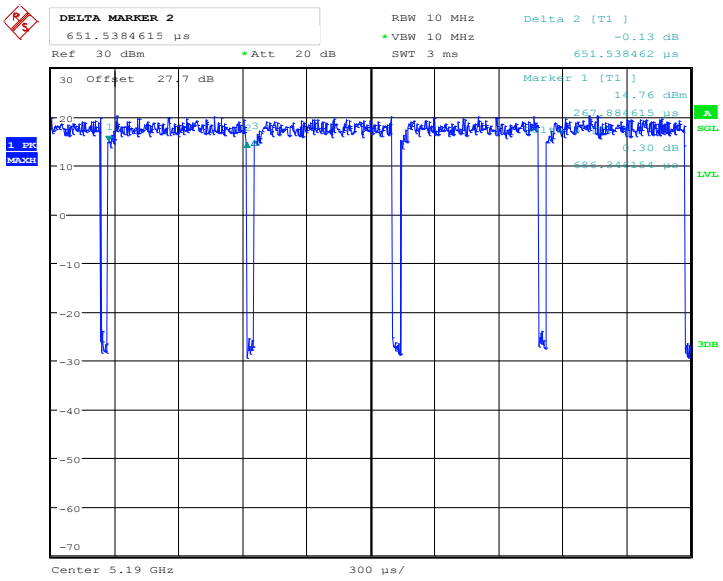
Date: 1.JAN.2003 06:14:12

802.11n HT20



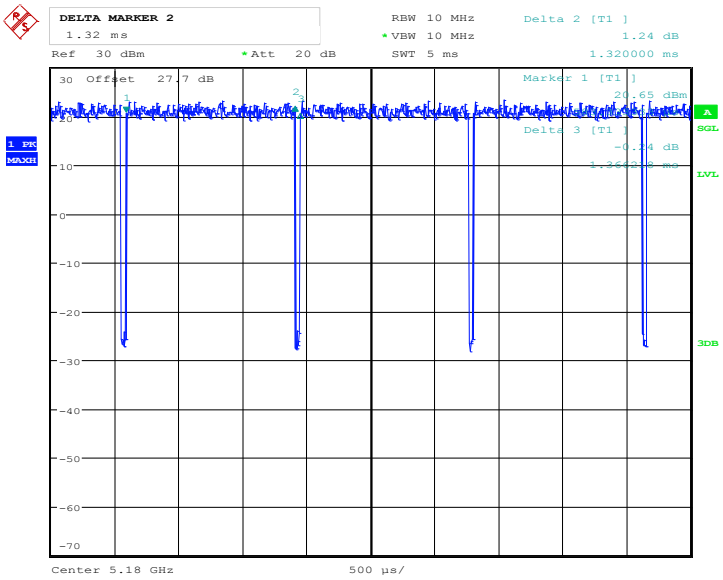
Date: 1.JAN.2003 06:16:08

802.11n HT40



Date: 1.JAN.2003 06:25:58

802.11ac VHT20



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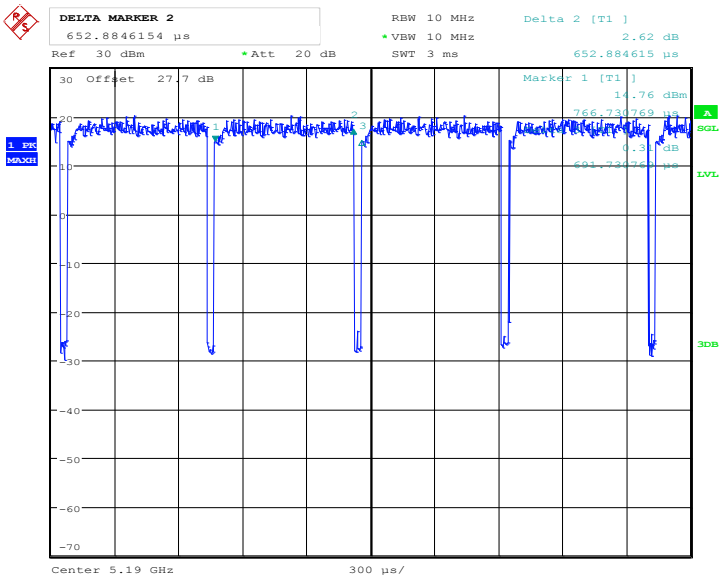
802.11ac VHT40



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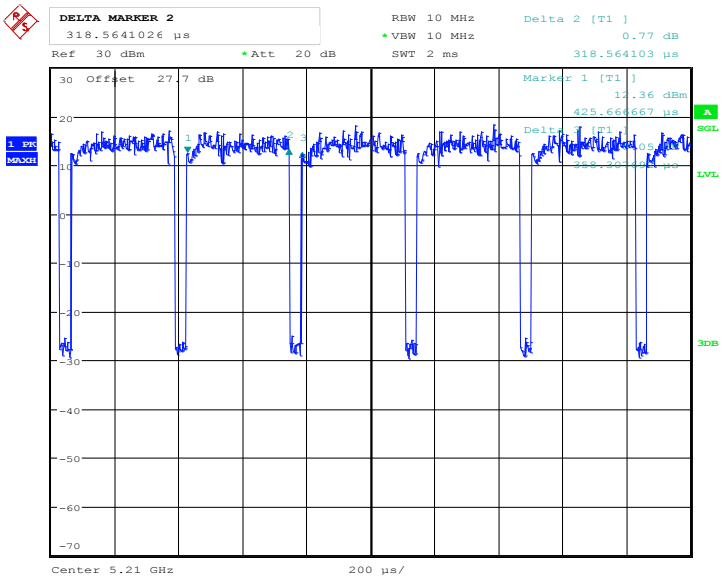
802.11ac VHT80



Date: 1.JAN.2003 06:30:54