FCC RADIO TEST REPORT

FCC ID	:	**2AGOZ-D87L**
Equipment	:	**Media receiver**
Brand Name	:	**facebook**
Model Name	:	**DT90GB**
Applicant	:	**Facebook Technologies, LLC** **1 Hacker Way, Menlo Park, CA 94025, USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on May 24, 2019 and testing was started from Jun. 10, 2019 and completed on Jun. 29, 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.

Jones Tsai

Approved by: Jones Tsai

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
FR952407D	01	Initial issue of report	Jul. 11, 2019
FR952407D	02	Revise the connection diagram of test system in section 2.3	Jul. 29, 2019

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 1.08 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 14.82 dB at 0.152 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/ac, and Wi-Fi 5GHz 802.11a/n/ac

Product Specification subjective to this standard	
Antenna Type	WLAN: FPC Antenna Bluetooth: FPC Antenna

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	DFS02-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.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Single Mode (Covered by MIMO Mode)

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

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Thermal Test + Adapter

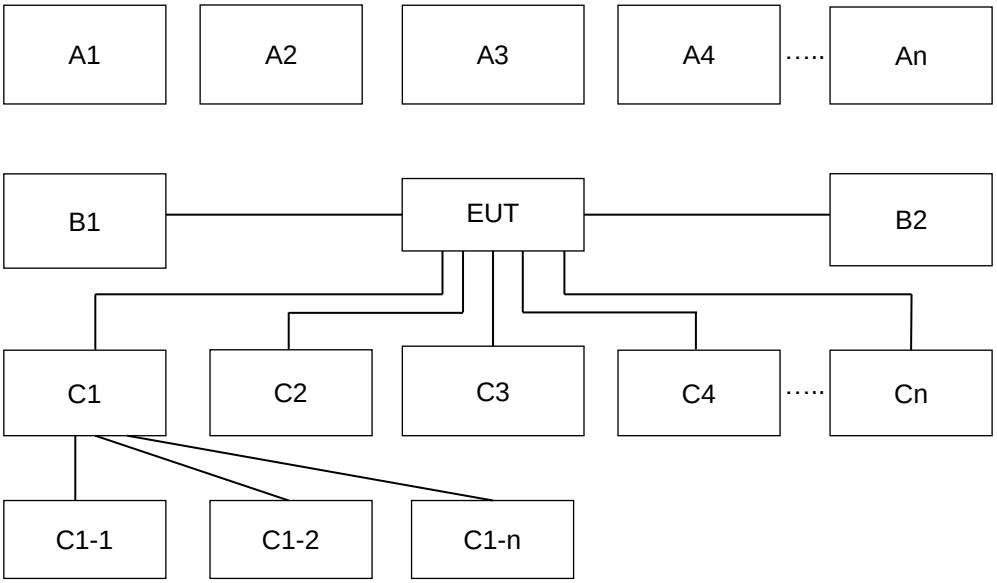
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

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

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

2.3 Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	–	–	–	–	–	–
A1	BT Earphone	Bluetooth	X	–	–	–	–	–	–
A2	AP router	WiFi	X	–	–	–	–	–	–
A3	Notebook	WiFi	X	–	–	–	–	–	–
No.	**Power Source**	**Connection Type**	**1**	**–**	**–**	**–**	**–**	**–**	**–**
B1	AC : 120V/60Hz	AC Power Cable	X	–	–	–	–	–	–

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	LAPTOP-J4S01QMP	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT V4.0.00108” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 8.2 dB and 20dB attenuator.

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

= 8.2 + 20 = 28.2 (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.

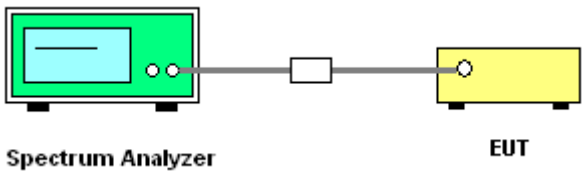
3.1.2 Measuring Instruments

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.

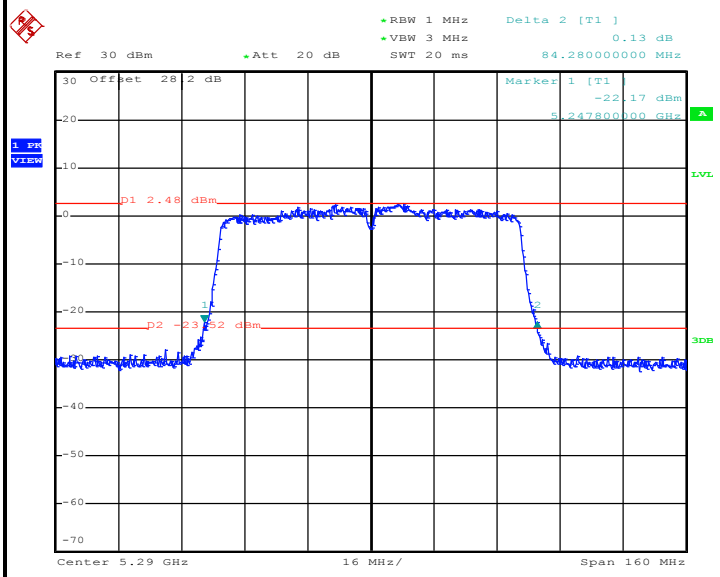
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

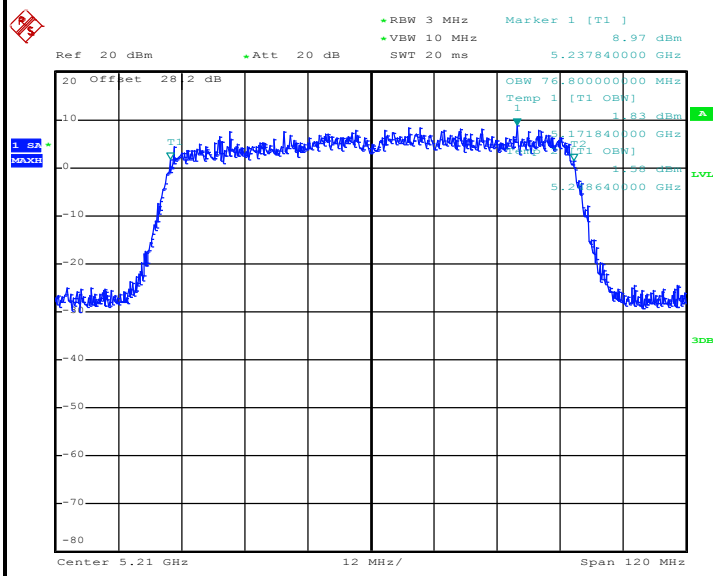
Please refer to Appendix A.

Maximum 26dB Bandwidth



Date: 28.JUN.2019 16:15:03

Maximum 99% Occupied Bandwidth



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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

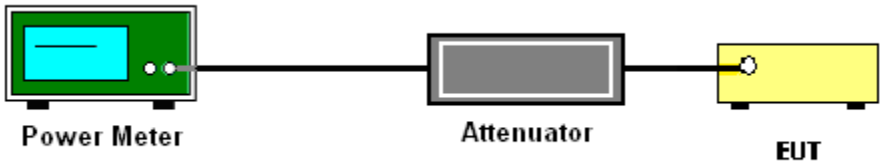
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

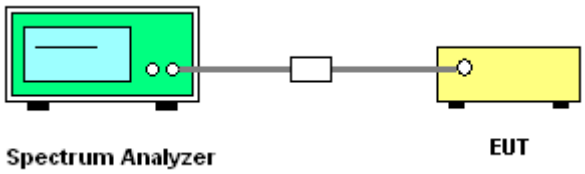
 # Method SA-2 #

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

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

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (a): Measure and sum the spectra across the outputs.
   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

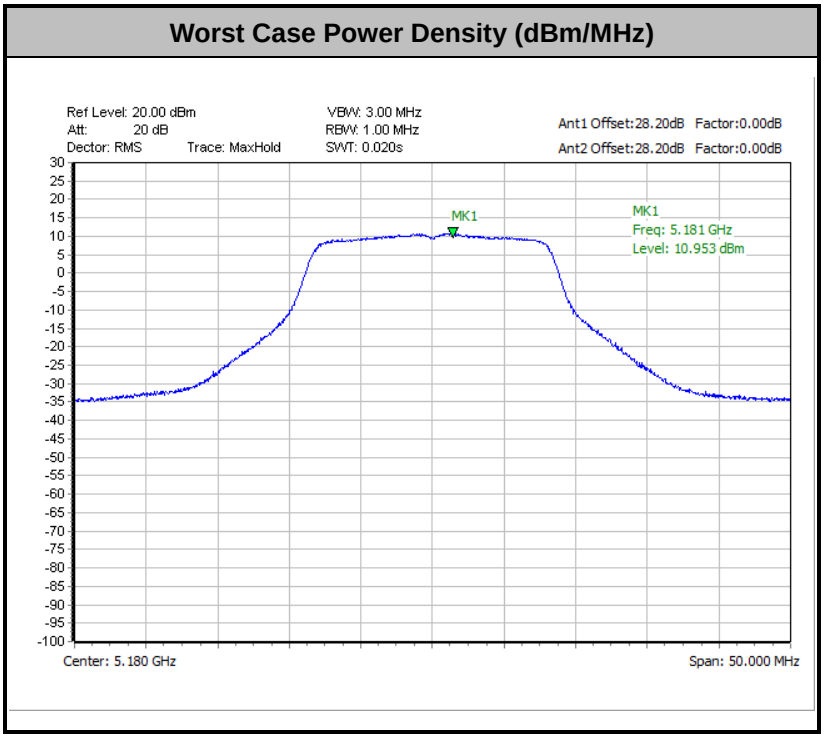
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

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

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

3.4.2 Measuring Instruments

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

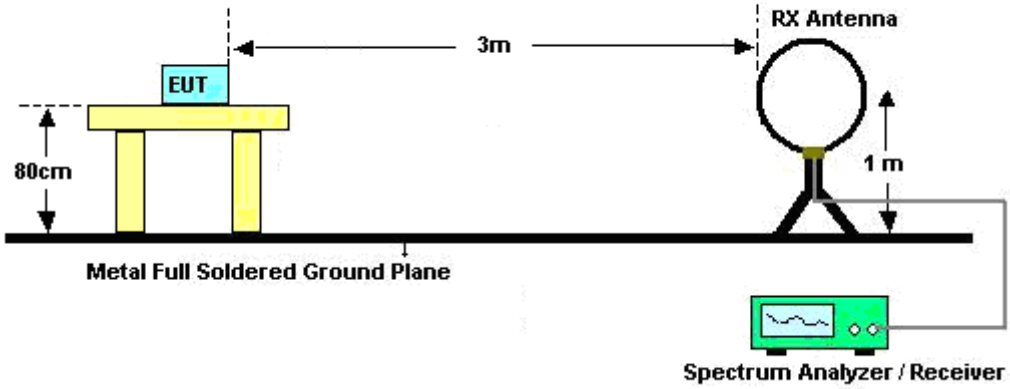
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - 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.

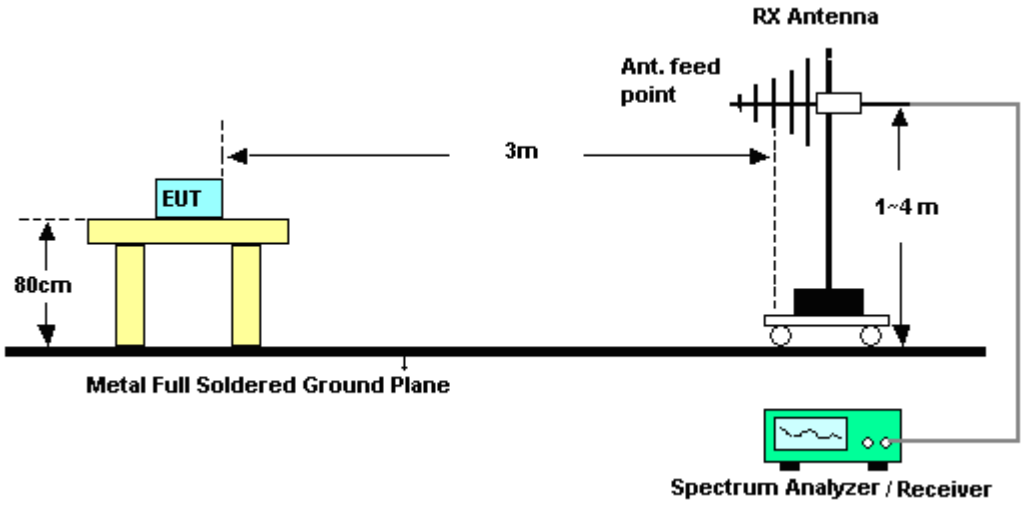
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

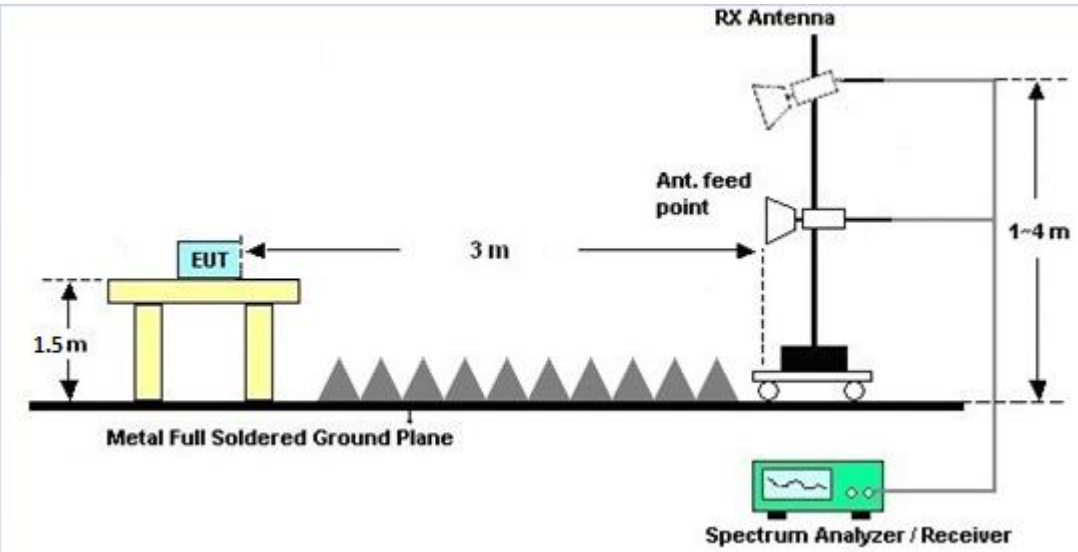
For radiated emissions below 30MHz



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.

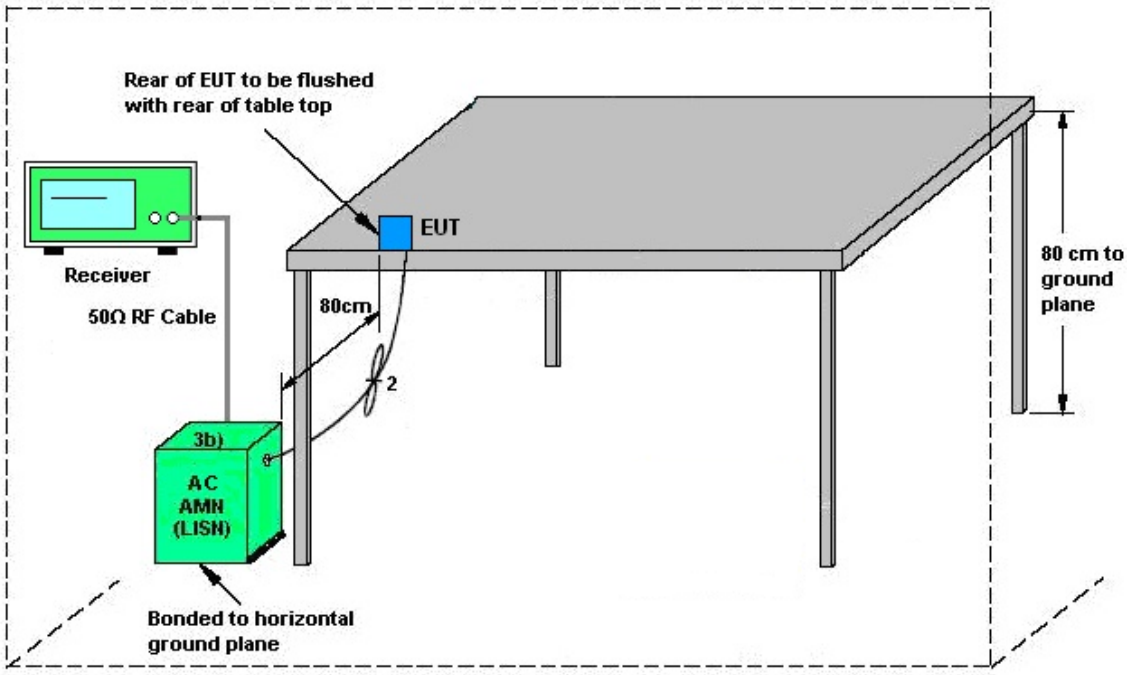
3.5.2 Measuring Instruments

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

EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz

Note: The control / signaling information during the period B is precluded.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	1.61	1.54	1.61	4.59	0.00	0.00
Band II	1.95	1.88	1.95	4.93	0.00	0.00
Band III	1.93	1.95	1.95	4.95	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Jun. 10, 2019~ Jun. 28, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jun. 10, 2019~ Jun. 28, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jun. 10, 2019~ Jun. 28, 2019	Mar. 26, 2020	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Jun. 13, 2019~ Jun. 24, 2019	Jan. 10, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 13, 2018	Jun. 13, 2019~ Jun. 24, 2019	Oct. 12, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 07, 2018	Jun. 13, 2019~ Jun. 24, 2019	Sep. 06, 2019	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz ~ 40GHz	Nov. 20, 2018	Jun. 13, 2019~ Jun. 24, 2019	Nov. 19, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02. 2018	Jun. 13, 2019~ Jun. 24, 2019	Oct. 01. 2019	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Apr. 01, 2019	Jun. 13, 2019~ Jun. 24, 2019	Mar. 31, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 12, 2018	Jun. 13, 2019~ Jun. 24, 2019	Dec. 11, 2019	Radiation (03CH16-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jun. 13, 2019~ Jun. 24, 2019	Jul. 15, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 29, 2018	Jun. 13, 2019~ Jun. 24, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY54200486	10Hz~44GHz	Oct. 19, 2018	Jun. 13, 2019~ Jun. 24, 2019	Oct. 18, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/26EA	30M-18G	Oct. 15, 2018	Jun. 13, 2019~ Jun. 24, 2019	Oct. 14, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Feb. 26, 2019	Jun. 13, 2019~ Jun. 24, 2019	Feb. 25, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M~18GHz	Apr. 15, 2019	Jun. 13, 2019~ Jun. 24, 2019	Apr. 14, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jun. 13, 2019~ Jun. 24, 2019	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 16, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Jun. 16, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 16, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jun. 16, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 16, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 16, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 16, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 16, 2018	Jun. 29, 2019	Aug. 15, 2019	DFS (DFS02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.2**

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:	Luffy Lin / AnAn Wu/Richard Qiu	Temperature:	21~25	°C
Test Date:	2019/6/10~2019/6/28	Relative Humidity:	51~54	%
TX Tool	QRCT4.0	TX Tool Version		

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TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	16.65	16.65	23.75	23.75	-		22.21			
11a	6Mbps	2	44	5220	16.65	16.65	24.15	23.75	-		22.21			
11a	6Mbps	2	48	5240	16.75	16.65	23.70	23.70	-		22.21			
VHT20	MCS0	2	36	5180	17.80	17.85	25.15	24.80	-		22.50			
VHT20	MCS0	2	44	5220	17.85	17.85	25.55	25.15	-		22.52			
VHT20	MCS0	2	48	5240	17.85	17.80	25.30	24.90	-		22.50			
VHT40	MCS0	2	38	5190	36.60	36.60	41.94	42.12	-		23.01			
VHT40	MCS0	2	46	5230	36.60	36.60	42.12	42.30	-		23.01			
VHT80	MCS0	2	42	5210	76.80	76.56	84.16	84.00	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I													
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	16.90	16.90		24.00	24.00	1.61	1.54		Pass
11a	6Mbps	1	44	5220	16.50	16.50		24.00	24.00	1.61	1.54		Pass
11a	6Mbps	1	48	5240	17.00	16.40		24.00	24.00	1.61	1.54		Pass
HT20	MCS0	1	36	5180	16.60	16.30		24.00	24.00	1.61	1.54		Pass
HT20	MCS0	1	44	5220	16.90	16.50		24.00	24.00	1.61	1.54		Pass
HT20	MCS0	1	48	5240	17.30	16.80		24.00	24.00	1.61	1.54		Pass
HT40	MCS0	1	38	5190	12.90	12.80		24.00	24.00	1.61	1.54		Pass
HT40	MCS0	1	46	5230	12.90	12.60		24.00	24.00	1.61	1.54		Pass
VHT20	MCS0	1	36	5180	16.70	16.40		24.00	24.00	1.61	1.54		Pass
VHT20	MCS0	1	44	5220	17.00	16.60		24.00	24.00	1.61	1.54		Pass
VHT20	MCS0	1	48	5240	17.40	16.90		24.00	24.00	1.61	1.54		Pass
VHT40	MCS0	1	38	5190	13.00	12.90		24.00	24.00	1.61	1.54		Pass
VHT40	MCS0	1	46	5230	13.00	12.70		24.00	24.00	1.61	1.54		Pass
VHT80	MCS0	1	42	5210	11.10	10.60		24.00	24.00	1.61	1.54		Pass
11a	6Mbps	2	36	5180	17.00	17.00	20.01	24.00		1.61			Pass
11a	6Mbps	2	44	5220	16.60	16.60	19.61	24.00		1.61			Pass
11a	6Mbps	2	48	5240	17.10	16.50	19.82	24.00		1.61			Pass
HT20	MCS0	2	36	5180	16.70	16.40	19.56	24.00		1.61			Pass
HT20	MCS0	2	44	5220	17.00	16.60	19.81	24.00		1.61			Pass
HT20	MCS0	2	48	5240	17.40	16.90	20.17	24.00		1.61			Pass
HT40	MCS0	2	38	5190	13.00	12.90	15.96	24.00		1.61			Pass
HT40	MCS0	2	46	5230	13.00	12.70	15.86	24.00		1.61			Pass
VHT20	MCS0	2	36	5180	16.80	16.50	19.66	24.00		1.61			Pass
VHT20	MCS0	2	44	5220	17.10	16.70	19.91	24.00		1.61			Pass
VHT20	MCS0	2	48	5240	17.50	17.00	20.27	24.00		1.61			Pass
VHT40	MCS0	2	38	5190	13.10	13.00	16.06	24.00		1.61			Pass
VHT40	MCS0	2	46	5230	13.10	12.80	15.96	24.00		1.61			Pass
VHT80	MCS0	2	42	5210	11.20	10.80	14.01	24.00		1.61			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.00	0.00			10.95	11.00		4.59			Pass
11a	6Mbps	2	44	5220	0.00	0.00			10.65	11.00		4.59			Pass
11a	6Mbps	2	48	5240	0.00	0.00			10.72	11.00		4.59			Pass
VHT20	MCS0	2	36	5180	0.00	0.00			10.52	11.00		4.59			Pass
VHT20	MCS0	2	44	5220	0.00	0.00			10.85	11.00		4.59			Pass
VHT20	MCS0	2	48	5240	0.00	0.00			10.94	11.00		4.59			Pass
VHT40	MCS0	2	38	5190	0.00	0.00			3.44	11.00		4.59			Pass
VHT40	MCS0	2	46	5230	0.00	0.00			3.44	11.00		4.59			Pass
VHT80	MCS0	2	42	5210	0.00	0.00			-1.26	11.00		4.59			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.65	16.60	23.85	24.15	23.20		29.20		23.98		
11a	6Mbps	2	60	5300	16.60	16.70	23.80	23.90	23.20		29.20		23.98		
11a	6Mbps	2	64	5320	16.70	16.60	23.90	23.80	23.20		29.20		23.98		
VHT20	MCS0	2	52	5260	17.85	17.75	25.15	24.55	23.49		29.49		23.98		
VHT20	MCS0	2	60	5300	17.90	17.85	25.15	25.65	23.52		29.52		23.98		
VHT20	MCS0	2	64	5320	17.85	17.80	25.25	25.40	23.50		29.50		23.98		
VHT40	MCS0	2	54	5270	36.50	36.70	41.79	42.25	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.60	36.70	42.30	42.30	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.80	76.80	84.28	84.16	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC Band II													
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	17.40	16.80		23.98	23.98	1.95	1.88	26.99	Pass
11a	6Mbps	1	60	5300	17.20	16.10		23.98	23.98	1.95	1.88	26.99	Pass
11a	6Mbps	1	64	5320	17.20	16.00		23.98	23.98	1.95	1.88	26.99	Pass
HT20	MCS0	1	52	5260	17.10	16.40		23.98	23.98	1.95	1.88	26.99	Pass
HT20	MCS0	1	60	5300	17.60	16.50		23.98	23.98	1.95	1.88	26.99	Pass
HT20	MCS0	1	64	5320	17.60	16.20		23.98	23.98	1.95	1.88	26.99	Pass
HT40	MCS0	1	54	5270	14.60	13.70		23.98	23.98	1.95	1.88	26.99	Pass
HT40	MCS0	1	62	5310	13.20	12.80		23.98	23.98	1.95	1.88	26.99	Pass
VHT20	MCS0	1	52	5260	17.20	16.50		23.98	23.98	1.95	1.88	26.99	Pass
VHT20	MCS0	1	60	5300	17.70	16.70		23.98	23.98	1.95	1.88	26.99	Pass
VHT20	MCS0	1	64	5320	17.70	16.30		23.98	23.98	1.95	1.88	26.99	Pass
VHT40	MCS0	1	54	5270	14.70	13.80		23.98	23.98	1.95	1.88	26.99	Pass
VHT40	MCS0	1	62	5310	13.30	12.90		23.98	23.98	1.95	1.88	26.99	Pass
VHT80	MCS0	1	58	5290	10.60	10.20		23.98	23.98	1.95	1.88	26.99	Pass
11a	6Mbps	2	52	5260	17.50	17.00	20.27	23.98		1.95		26.99	Pass
11a	6Mbps	2	60	5300	17.30	16.20	19.80	23.98		1.95		26.99	Pass
11a	6Mbps	2	64	5320	17.30	16.10	19.75	23.98		1.95		26.99	Pass
HT20	MCS0	2	52	5260	17.20	16.50	19.87	23.98		1.95		26.99	Pass
HT20	MCS0	2	60	5300	17.70	16.60	20.20	23.98		1.95		26.99	Pass
HT20	MCS0	2	64	5320	17.70	16.30	20.07	23.98		1.95		26.99	Pass
HT40	MCS0	2	54	5270	14.70	13.80	17.28	23.98		1.95		26.99	Pass
HT40	MCS0	2	62	5310	13.30	12.90	16.11	23.98		1.95		26.99	Pass
VHT20	MCS0	2	52	5260	17.30	16.60	19.97	23.98		1.95		26.99	Pass
VHT20	MCS0	2	60	5300	17.80	16.80	20.34	23.98		1.95		26.99	Pass
VHT20	MCS0	2	64	5320	17.80	16.40	20.17	23.98		1.95		26.99	Pass
VHT40	MCS0	2	54	5270	14.80	13.90	17.38	23.98		1.95		26.99	Pass
VHT40	MCS0	2	62	5310	13.40	13.00	16.21	23.98		1.95		26.99	Pass
VHT80	MCS0	2	58	5290	10.70	10.30	13.51	23.98		1.95		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.00	0.00			10.79	11.00		4.93			Pass
11a	6Mbps	2	60	5300	0.00	0.00			10.56	11.00		4.93			Pass
11a	6Mbps	2	64	5320	0.00	0.00			10.14	11.00		4.93			Pass
VHT20	MCS0	2	52	5260	0.00	0.00			10.94	11.00		4.93			Pass
VHT20	MCS0	2	60	5300	0.00	0.00			10.93	11.00		4.93			Pass
VHT20	MCS0	2	64	5320	0.00	0.00			10.69	11.00		4.93			Pass
VHT40	MCS0	2	54	5270	0.00	0.00			4.66	11.00		4.93			Pass
VHT40	MCS0	2	62	5310	0.00	0.00			2.89	11.00		4.93			Pass
VHT80	MCS0	2	58	5290	0.00	0.00			-1.44	11.00		4.93			Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.70	16.60	23.90	23.90	23.20		29.20		23.98		----	----
11a	6Mbps	2	116	5580	16.70	16.65	23.95	23.80	23.21		29.21		23.98		----	----
11a	6Mbps	2	140	5700	16.65	16.60	24.20	24.45	23.20		29.20		23.98		----	----
11a	6Mbps	2	144	5720	13.40	13.40	17.07	16.80	22.27		28.27		23.25		2.85	2.85
VHT20	MCS0	2	100	5500	17.90	17.85	25.40	25.15	23.52		29.52		23.98		----	----
VHT20	MCS0	2	116	5580	17.85	17.75	25.00	25.20	23.49		29.49		23.98		----	----
VHT20	MCS0	2	140	5700	17.90	17.80	25.65	24.80	23.50		29.50		23.98		----	----
VHT20	MCS0	2	144	5720	13.95	13.95	17.30	17.35	22.45		28.45		23.38		2.5	3.1
VHT40	MCS0	2	102	5510	36.60	36.70	41.85	42.06	23.98		30.00		23.98		----	----
VHT40	MCS0	2	110	5550	36.50	36.60	42.36	42.12	23.98		30.00		23.98		----	----
VHT40	MCS0	2	134	5670	36.60	36.50	42.07	42.14	23.98		30.00		23.98		----	----
VHT40	MCS0	2	142	5710	33.40	33.40	36.19	36.24	23.98		30.00		23.98		3.09	2.55
VHT80	MCS0	2	106	5530	76.80	76.56	84.16	83.52	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.80	76.80	84.16	84.28	23.98		30.00		23.98		----	----
VHT80	MCS0	2	138	5690	73.52	73.40	76.92	77.10	23.98		30.00		23.98		2.55	2.6

Report Number : FR952407D

TEST RESULTS DATA
Average Power Table

FCC Band III													
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	17.10	16.20		23.98	23.98	1.93	1.95	26.99	Pass
11a	6Mbps	1	116	5580	17.00	16.10		23.98	23.98	1.93	1.95	26.99	Pass
11a	6Mbps	1	140	5700	16.70	15.70		23.98	23.98	1.93	1.95	26.99	Pass
11a	6Mbps	1	144	5720	16.70	15.90		23.32	23.25	1.93	1.95	26.99	Pass
HT20	MCS0	1	100	5500	16.90	16.10		23.98	23.98	1.93	1.95	26.99	Pass
HT20	MCS0	1	116	5580	16.60	15.90		23.98	23.98	1.93	1.95	26.99	Pass
HT20	MCS0	1	140	5700	17.00	16.20		23.98	23.98	1.93	1.95	26.99	Pass
HT20	MCS0	1	144	5720	17.00	16.20		23.38	23.39	1.93	1.95	26.99	Pass
HT40	MCS0	1	102	5510	16.70	16.30		23.98	23.98	1.93	1.95	26.99	Pass
HT40	MCS0	1	110	5550	18.40	17.80		23.98	23.98	1.93	1.95	26.99	Pass
HT40	MCS0	1	134	5670	17.70	17.00		23.98	23.98	1.93	1.95	26.99	Pass
HT40	MCS0	1	142	5710	18.20	17.40		23.98	23.98	1.93	1.95	26.99	Pass
VHT20	MCS0	1	100	5500	17.00	16.20		23.98	23.98	1.93	1.95	26.99	Pass
VHT20	MCS0	1	116	5580	16.70	16.00		23.98	23.98	1.93	1.95	26.99	Pass
VHT20	MCS0	1	140	5700	17.10	16.30		23.98	23.98	1.93	1.95	26.99	Pass
VHT20	MCS0	1	144	5720	17.10	16.30		23.38	23.39	1.93	1.95	26.99	Pass
VHT40	MCS0	1	102	5510	16.80	16.40		23.98	23.98	1.93	1.95	26.99	Pass
VHT40	MCS0	1	110	5550	18.50	17.90		23.98	23.98	1.93	1.95	26.99	Pass
VHT40	MCS0	1	134	5670	17.80	17.10		23.98	23.98	1.93	1.95	26.99	Pass
VHT40	MCS0	1	142	5710	18.30	17.50		23.98	23.98	1.93	1.95	26.99	Pass
VHT80	MCS0	1	106	5530	12.70	12.40		23.98	23.98	1.93	1.95	26.99	Pass
VHT80	MCS0	1	122	5610	19.30	18.60		23.98	23.98	1.93	1.95	26.99	Pass
VHT80	MCS0	1	138	5690	13.00	12.20		23.98	23.98	1.93	1.95	26.99	Pass
11a	6Mbps	2	100	5500	17.20	16.50	19.87	23.98		1.95		26.99	Pass
11a	6Mbps	2	116	5580	17.10	16.20	19.68	23.98		1.95		26.99	Pass
11a	6Mbps	2	140	5700	16.80	15.80	19.34	23.98		1.95		26.99	Pass
11a	6Mbps	2	144	5720	16.80	16.00	19.43	23.25		1.95		26.99	Pass
HT20	MCS0	2	100	5500	17.00	16.20	19.63	23.98		1.95		26.99	Pass
HT20	MCS0	2	116	5580	16.70	16.00	19.37	23.98		1.95		26.99	Pass
HT20	MCS0	2	140	5700	17.10	16.30	19.73	23.98		1.95		26.99	Pass
HT20	MCS0	2	144	5720	17.10	16.30	19.73	23.38		1.95		26.99	Pass
HT40	MCS0	2	102	5510	16.80	16.40	19.61	23.98		1.95		26.99	Pass
HT40	MCS0	2	110	5550	18.50	17.90	21.22	23.98		1.95		26.99	Pass
HT40	MCS0	2	134	5670	17.80	17.10	20.47	23.98		1.95		26.99	Pass
HT40	MCS0	2	142	5710	18.30	17.50	20.93	23.98		1.95		26.99	Pass
VHT20	MCS0	2	100	5500	17.10	16.30	19.73	23.98		1.95		26.99	Pass
VHT20	MCS0	2	116	5580	16.80	16.10	19.47	23.98		1.95		26.99	Pass
VHT20	MCS0	2	140	5700	17.20	16.40	19.83	23.98		1.95		26.99	Pass
VHT20	MCS0	2	144	5720	17.20	16.40	19.83	23.38		1.95		26.99	Pass
VHT40	MCS0	2	102	5510	16.90	16.50	19.71	23.98		1.95		26.99	Pass
VHT40	MCS0	2	110	5550	18.60	18.00	21.32	23.98		1.95		26.99	Pass
VHT40	MCS0	2	134	5670	17.90	17.20	20.57	23.98		1.95		26.99	Pass
VHT40	MCS0	2	142	5710	18.40	17.60	21.03	23.98		1.95		26.99	Pass
VHT80	MCS0	2	106	5530	12.80	12.50	15.66	23.98		1.95		26.99	Pass
VHT80	MCS0	2	122	5610	19.40	18.70	22.07	23.98		1.95		26.99	Pass
VHT80	MCS0	2	138	5690	13.10	12.30	15.73	23.98		1.95		26.99	Pass

Report Number : FR952407D

TEST RESULTS DATA
Power Spectral Density

Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.00	0.00			10.63	11.00		4.95			Pass
11a	6Mbps	2	116	5580	0.00	0.00			10.81	11.00		4.95			Pass
11a	6Mbps	2	140	5700	0.00	0.00			10.15	11.00		4.95			Pass
11a	6Mbps	2	144	5720	0.00	0.00			10.31	11.00		4.95			Pass
VHT20	MCS0	2	100	5500	0.00	0.00			10.89	11.00		4.95			Pass
VHT20	MCS0	2	116	5580	0.00	0.00			10.53	11.00		4.95			Pass
VHT20	MCS0	2	140	5700	0.00	0.00			10.87	11.00		4.95			Pass
VHT20	MCS0	2	144	5720	0.00	0.00			10.77	11.00		4.95			Pass
VHT40	MCS0	2	102	5510	0.00	0.00			6.86	11.00		4.95			Pass
VHT40	MCS0	2	110	5550	0.00	0.00			9.10	11.00		4.95			Pass
VHT40	MCS0	2	134	5670	0.00	0.00			7.96	11.00		4.95			Pass
VHT40	MCS0	2	142	5710	0.00	0.00			8.40	11.00		4.95			Pass
VHT80	MCS0	2	106	5530	0.00	0.00			0.53	11.00		4.95			Pass
VHT80	MCS0	2	122	5610	0.00	0.00			7.75	11.00		4.95			Pass
VHT80	MCS0	2	138	5690	0.00	0.00			1.02	11.00		4.95			Pass

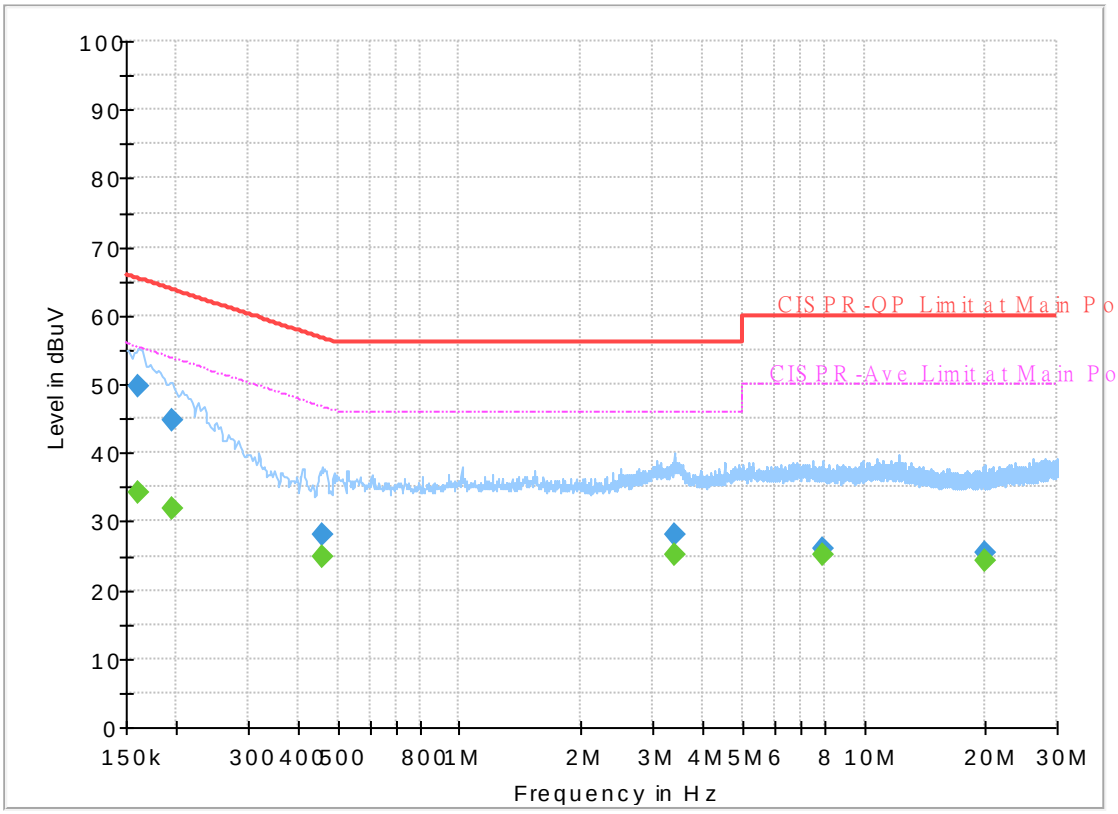
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	24~26℃
		Relative Humidity :	52~54%

EUT Information

Report NO :	952407
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



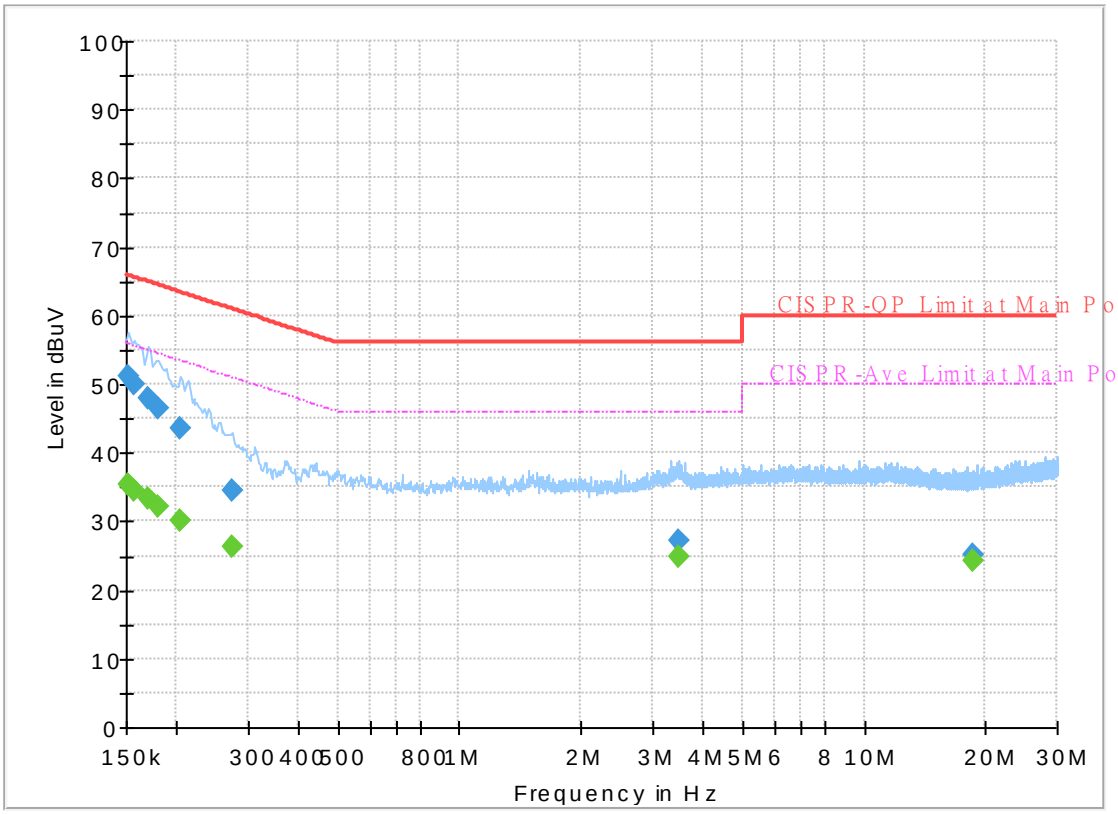
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	34.34	55.40	21.06	L1	OFF	19.5
0.161250	49.69	---	65.40	15.71	L1	OFF	19.5
0.195000	---	31.73	53.82	22.09	L1	OFF	19.5
0.195000	44.60	---	63.82	19.22	L1	OFF	19.5
0.456000	---	24.75	46.77	22.02	L1	OFF	19.5
0.456000	28.14	---	56.77	28.63	L1	OFF	19.5
3.385500	---	25.25	46.00	20.75	L1	OFF	19.7
3.385500	27.93	---	56.00	28.07	L1	OFF	19.7
7.878750	---	25.01	50.00	24.99	L1	OFF	19.8
7.878750	26.12	---	60.00	33.88	L1	OFF	19.8
19.999500	---	24.37	50.00	25.63	L1	OFF	20.3
19.999500	25.46	---	60.00	34.54	L1	OFF	20.3

EUT Information

Report NO :	952407
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.37	55.88	20.51	N	OFF	19.5
0.152250	51.06	---	65.88	14.82	N	OFF	19.5
0.156750	---	34.38	55.63	21.25	N	OFF	19.5
0.156750	50.15	---	65.63	15.48	N	OFF	19.5
0.170250	---	33.41	54.95	21.54	N	OFF	19.5
0.170250	48.04	---	64.95	16.91	N	OFF	19.5
0.179250	---	32.29	54.52	22.23	N	OFF	19.5
0.179250	46.47	---	64.52	18.05	N	OFF	19.5
0.204000	---	30.09	53.45	23.36	N	OFF	19.5
0.204000	43.67	---	63.45	19.78	N	OFF	19.5
0.273750	---	26.18	51.00	24.82	N	OFF	19.5
0.273750	34.43	---	61.00	26.57	N	OFF	19.5
3.482250	---	24.72	46.00	21.28	N	OFF	19.7
3.482250	27.22	---	56.00	28.78	N	OFF	19.7
18.579750	---	24.30	50.00	25.70	N	OFF	20.3
18.579750	25.23	---	60.00	34.77	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung, Austin Li, CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5141.7	57.61	-16.39	74	41.48	32.63	13.22	29.72	205	247	P	H
		5149.24	48.33	-5.67	54	32.23	32.62	13.2	29.72	205	247	A	H
	*	5180	114.73	-	-	98.74	32.58	13.13	29.72	205	247	P	H
	*	5180	106.45	-	-	90.46	32.58	13.13	29.72	205	247	A	H
		5141.7	57.29	-16.71	74	41.16	32.63	13.22	29.72	228	79	P	V
		5148.46	48.63	-5.37	54	32.53	32.62	13.2	29.72	228	79	A	V
	*	5180	117.16	-	-	101.17	32.58	13.13	29.72	228	79	P	V
	*	5180	108.9	-	-	92.91	32.58	13.13	29.72	228	79	A	V
802.11a CH 44 5220MHz		5147.94	56.11	-17.89	74	40.01	32.62	13.2	29.72	213	246	P	H
		5147.94	45.28	-8.72	54	29.18	32.62	13.2	29.72	213	246	A	H
	*	5220	115.9	-	-	100.01	32.54	13.07	29.72	213	246	P	H
	*	5220	106.94	-	-	91.05	32.54	13.07	29.72	213	246	A	H
		5368.44	55.3	-18.7	74	39.7	32.36	12.97	29.73	213	246	P	H
		5351.92	44.45	-9.55	54	28.82	32.38	12.98	29.73	213	246	A	H
		5081.38	55.43	-18.57	74	39.08	32.7	13.36	29.71	212	88	P	V
		5145.6	45.99	-8.01	54	29.87	32.63	13.21	29.72	212	88	A	V
	*	5220	117.67	-	-	101.78	32.54	13.07	29.72	212	88	P	V
	*	5220	109.55	-	-	93.66	32.54	13.07	29.72	212	88	A	V
		5416.32	55.06	-18.94	74	39.48	32.3	13.01	29.73	212	88	P	V
		5452.72	47.05	-6.95	54	31.39	32.26	13.14	29.74	212	88	A	V

802.11a CH 48 5240MHz		5042.9	55.97	-18.03	74	39.47	32.75	13.46	29.71	204	245	P	H
		5133.64	44.83	-9.17	54	28.67	32.64	13.24	29.72	204	245	A	H
	*	5240	115.38	-	-	99.54	32.51	13.05	29.72	204	245	P	H
	*	5240	107.09	-	-	91.25	32.51	13.05	29.72	204	245	A	H
		5377.96	54.93	-19.07	74	39.35	32.35	12.96	29.73	204	245	P	H
		5350.24	44.83	-9.17	54	29.2	32.38	12.98	29.73	204	245	A	H
		5094.38	56.25	-17.75	74	39.95	32.69	13.33	29.72	214	71	P	V
		5149.76	45.24	-8.76	54	29.14	32.62	13.2	29.72	214	71	A	V
	*	5240	117.6	-	-	101.76	32.51	13.05	29.72	214	71	P	V
	*	5240	109.78	-	-	93.94	32.51	13.05	29.72	214	71	A	V
		5350	55.55	-18.45	74	39.92	32.38	12.98	29.73	214	71	P	V
		5452.72	46.54	-7.46	54	30.88	32.26	13.14	29.74	214	71	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5146.64	59.15	-14.85	74	43.04	32.62	13.21	29.72	202	248	P	H
		5148.2	49.66	-4.34	54	33.56	32.62	13.2	29.72	202	248	A	H
802.11ac	*	5180	114.05	-	-	98.06	32.58	13.13	29.72	202	248	P	H
VHT20	*	5180	105.78	-	-	89.79	32.58	13.13	29.72	202	248	A	H
CH 36		5150	60.3	-13.7	74	44.2	32.62	13.2	29.72	222	83	P	V
5180MHz		5148.98	50.46	-3.54	54	34.36	32.62	13.2	29.72	222	83	A	V
	*	5180	117.36	-	-	101.37	32.58	13.13	29.72	222	83	P	V
	*	5180	108.35	-	-	92.36	32.58	13.13	29.72	222	83	A	V
		5040.3	55.93	-18.07	74	39.43	32.75	13.46	29.71	204	247	P	H
		5146.9	45.71	-8.29	54	29.6	32.62	13.21	29.72	204	247	A	H
	*	5220	114.27	-	-	98.38	32.54	13.07	29.72	204	247	P	H
	*	5220	105.82	-	-	89.93	32.54	13.07	29.72	204	247	A	H
802.11ac		5446.28	54.61	-19.39	74	38.98	32.26	13.11	29.74	204	247	P	H
VHT20		5451.88	45.01	-8.99	54	29.36	32.26	13.13	29.74	204	247	A	H
CH 44		5073.58	55.83	-18.17	74	39.45	32.71	13.38	29.71	207	82	P	V
5220MHz		5145.34	46.07	-7.93	54	29.95	32.63	13.21	29.72	207	82	A	V
	*	5220	117.69	-	-	101.8	32.54	13.07	29.72	207	82	P	V
	*	5220	108.93	-	-	93.04	32.54	13.07	29.72	207	82	A	V
		5366.2	56.24	-17.76	74	40.64	32.36	12.97	29.73	207	82	P	V
		5453	46.89	-7.11	54	31.23	32.26	13.14	29.74	207	82	A	V

		5002.34	56.42	-17.58	74	39.78	32.8	13.55	29.71	199	247	P	H
		5076.96	45.02	-8.98	54	28.64	32.71	13.38	29.71	199	247	A	H
	*	5240	114.78	-	-	98.94	32.51	13.05	29.72	199	247	P	H
	*	5240	105.99	-	-	90.15	32.51	13.05	29.72	199	247	A	H
802.11ac		5391.4	55.14	-18.86	74	39.58	32.33	12.96	29.73	199	247	P	H
VHT20		5350	44.59	-9.41	54	28.96	32.38	12.98	29.73	199	247	A	H
CH 48		5139.62	56.09	-17.91	74	39.96	32.63	13.22	29.72	215	79	P	V
5240MHz		5145.08	45.42	-8.58	54	29.3	32.63	13.21	29.72	215	79	A	V
	*	5240	118.06	-	-	102.22	32.51	13.05	29.72	215	79	P	V
	*	5240	109.24	-	-	93.4	32.51	13.05	29.72	215	79	A	V
		5390.84	55.82	-18.18	74	40.26	32.33	12.96	29.73	215	79	P	V
		5453	46.63	-7.37	54	30.97	32.26	13.14	29.74	215	79	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10360	47.37	-20.83	68.2	49.28	39.9	17.48	59.29	100	0	P	H
VHT20		15540	44.29	-29.71	74	44.83	37.9	21.51	59.95	100	0	P	H
CH 36		10360	47.67	-20.53	68.2	49.58	39.9	17.48	59.29	100	0	P	V
5180MHz		15540	43.93	-30.07	74	44.47	37.9	21.51	59.95	100	0	P	V
802.11ac		10440	48.53	-19.67	68.2	50.29	40.02	17.55	59.33	100	0	P	H
VHT20		15660	42.81	-31.19	74	43.26	37.9	21.53	59.88	100	0	P	H
CH 44		10440	47.28	-20.92	68.2	49.04	40.02	17.55	59.33	100	0	P	V
5220MHz		15660	42.53	-31.47	74	42.98	37.9	21.53	59.88	100	0	P	V
802.11ac		10480	47.9	-20.3	68.2	49.6	40.07	17.58	59.35	100	0	P	H
VHT20		15720	43.46	-30.54	74	43.86	37.9	21.54	59.84	100	0	P	H
CH 48		10480	46.72	-21.48	68.2	48.42	40.07	17.58	59.35	100	0	P	V
5240MHz		15720	43.99	-30.01	74	44.39	37.9	21.54	59.84	100	0	P	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5149.5	57.37	-16.63	74	41.27	32.62	13.2	29.72	207	246	P	H
		5150	48.69	-5.31	54	32.59	32.62	13.2	29.72	207	246	A	H
	*	5190	107.94	-	-	91.99	32.57	13.1	29.72	207	246	P	H
	*	5190	99.07	-	-	83.12	32.57	13.1	29.72	207	246	A	H
802.11ac		5410.16	54.9	-19.1	74	39.33	32.31	12.99	29.73	207	246	P	H
VHT40		5413.52	46.35	-7.65	54	30.78	32.3	13	29.73	207	246	A	H
CH 38		5146.64	60.59	-13.41	74	44.48	32.62	13.21	29.72	199	46	P	V
5190MHz		5149.76	52.44	-1.56	54	36.34	32.62	13.2	29.72	199	46	A	V
	*	5190	110.26	-	-	94.31	32.57	13.1	29.72	199	46	P	V
	*	5190	102.19	-	-	86.24	32.57	13.1	29.72	199	46	A	V
		5412.12	56.1	-17.9	74	40.53	32.31	12.99	29.73	199	46	P	V
		5412.4	48.92	-5.08	54	33.35	32.31	12.99	29.73	199	46	A	V
		5073.84	55.2	-18.8	74	38.82	32.71	13.38	29.71	223	238	P	H
		5087.62	45.87	-8.13	54	29.55	32.69	13.35	29.72	223	238	A	H
	*	5230	107.66	-	-	91.8	32.52	13.06	29.72	223	238	P	H
	*	5230	99.36	-	-	83.5	32.52	13.06	29.72	223	238	A	H
802.11ac		5453.28	54.78	-19.22	74	39.12	32.26	13.14	29.74	223	238	P	H
VHT40		5453	47.38	-6.62	54	31.72	32.26	13.14	29.74	223	238	A	H
CH 46		5116.48	54.85	-19.15	74	38.63	32.66	13.28	29.72	207	48	P	V
5230MHz		5137.28	45.98	-8.02	54	29.83	32.64	13.23	29.72	207	48	A	V
	*	5230	111.07	-	-	95.21	32.52	13.06	29.72	207	48	P	V
	*	5230	102.09	-	-	86.23	32.52	13.06	29.72	207	48	A	V
		5453	55.33	-18.67	74	39.67	32.26	13.14	29.74	207	48	P	V
		5452.72	47.92	-6.08	54	32.26	32.26	13.14	29.74	207	48	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5149.5	57.7	-16.3	74	41.6	32.62	13.2	29.72	204	240	P	H
		5149.76	49.95	-4.05	54	33.85	32.62	13.2	29.72	204	240	A	H
	*	5210	102.06	-	-	86.16	32.55	13.07	29.72	204	240	P	H
	*	5210	94.54	-	-	78.64	32.55	13.07	29.72	204	240	A	H
		5455.24	55.23	-18.77	74	39.57	32.25	13.15	29.74	204	240	P	H
		5382.72	45.22	-8.78	54	29.65	32.34	12.96	29.73	204	240	A	H
		5147.68	60.37	-13.63	74	44.26	32.62	13.21	29.72	181	87	P	V
		5149.76	51.67	-2.33	54	35.57	32.62	13.2	29.72	181	87	A	V
	*	5210	105.2	-	-	89.3	32.55	13.07	29.72	181	87	P	V
	*	5210	97.58	-	-	81.68	32.55	13.07	29.72	181	87	A	V
		5450.76	54.76	-19.24	74	39.11	32.26	13.13	29.74	181	87	P	V
		5452.72	46.64	-7.36	54	30.98	32.26	13.14	29.74	181	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5074.12	55.26	-18.74	74	38.88	32.71	13.38	29.71	199	248	P	H
		5100.98	44.69	-9.31	54	28.41	32.68	13.32	29.72	199	248	A	H
	*	5260	115.06	-	-	99.26	32.49	13.04	29.73	199	248	P	H
	*	5260	107.07	-	-	91.27	32.49	13.04	29.73	199	248	A	H
		5444.64	56.47	-17.53	74	40.83	32.27	13.11	29.74	199	248	P	H
		5352	44.86	-9.14	54	29.23	32.38	12.98	29.73	199	248	A	H
		5144.16	55.8	-18.2	74	39.68	32.63	13.21	29.72	202	82	P	V
		5145.86	45.03	-8.97	54	28.92	32.62	13.21	29.72	202	82	A	V
	*	5260	118	-	-	102.2	32.49	13.04	29.73	202	82	P	V
	*	5260	109.99	-	-	94.19	32.49	13.04	29.73	202	82	A	V
		5359.44	56.89	-17.11	74	41.27	32.37	12.98	29.73	202	82	P	V
		5356.32	46.4	-7.6	54	30.78	32.37	12.98	29.73	202	82	A	V
802.11a CH 60 5300MHz		5097.92	55.09	-18.91	74	38.81	32.68	13.32	29.72	207	248	P	H
		5077.18	44.86	-9.14	54	28.49	32.71	13.37	29.71	207	248	A	H
	*	5300	115.12	-	-	99.4	32.44	13.01	29.73	207	248	P	H
	*	5300	107.41	-	-	91.69	32.44	13.01	29.73	207	248	A	H
		5352.72	57.94	-16.06	74	42.31	32.38	12.98	29.73	207	248	P	H
		5350.56	48.31	-5.69	54	32.68	32.38	12.98	29.73	207	248	A	H
		5101.66	54.93	-19.07	74	38.65	32.68	13.32	29.72	222	77	P	V
		5145.52	45.18	-8.82	54	29.06	32.63	13.21	29.72	222	77	A	V
	*	5300	118.3	-	-	102.58	32.44	13.01	29.73	222	77	P	V
	*	5300	110.21	-	-	94.49	32.44	13.01	29.73	222	77	A	V
		5350.08	58.34	-15.66	74	42.71	32.38	12.98	29.73	222	77	P	V
		5354.16	50.18	-3.82	54	34.55	32.38	12.98	29.73	222	77	A	V

802.11a CH 64 5320MHz	*	5320	115.4	-	-	99.71	32.42	13	29.73	193	250	P	H
	*	5320	106.93	-	-	91.24	32.42	13	29.73	193	250	A	H
		5350.88	56.22	-17.78	74	40.59	32.38	12.98	29.73	193	250	P	H
		5351.84	47.37	-6.63	54	31.74	32.38	12.98	29.73	193	250	A	H
	*	5320	118.05	-	-	102.36	32.42	13	29.73	220	44	P	V
	*	5320	110.34	-	-	94.65	32.42	13	29.73	220	44	A	V
		5380.32	58.23	-15.77	74	42.66	32.34	12.96	29.73	220	44	P	V
		5350.08	49.13	-4.87	54	33.5	32.38	12.98	29.73	220	44	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5033.66	55.62	-18.38	74	39.09	32.76	13.48	29.71	203	248	P	H
		5052.36	44.92	-9.08	54	28.46	32.74	13.43	29.71	203	248	A	H
	*	5260	114.52	-	-	98.72	32.49	13.04	29.73	203	248	P	H
	*	5260	106.22	-	-	90.42	32.49	13.04	29.73	203	248	A	H
802.11ac		5418.72	55.28	-18.72	74	39.7	32.3	13.02	29.74	203	248	P	H
VHT20		5350.08	45	-9	54	29.37	32.38	12.98	29.73	203	248	A	H
CH 52		5014.28	55.83	-18.17	74	39.23	32.78	13.53	29.71	202	83	P	V
5260MHz		5145.52	45.16	-8.84	54	29.04	32.63	13.21	29.72	202	83	A	V
	*	5260	117.95	-	-	102.15	32.49	13.04	29.73	202	83	P	V
	*	5260	109.54	-	-	93.74	32.49	13.04	29.73	202	83	A	V
		5373.12	55.4	-18.6	74	39.81	32.35	12.97	29.73	202	83	P	V
		5452.8	46.48	-7.52	54	30.82	32.26	13.14	29.74	202	83	A	V
		5038.08	55.31	-18.69	74	38.8	32.75	13.47	29.71	193	240	P	H
		5066.64	45.06	-8.94	54	28.65	32.72	13.4	29.71	193	240	A	H
	*	5300	114.88	-	-	99.16	32.44	13.01	29.73	193	240	P	H
	*	5300	106.18	-	-	90.46	32.44	13.01	29.73	193	240	A	H
802.11ac		5355.84	57.05	-16.95	74	41.43	32.37	12.98	29.73	193	240	P	H
VHT20		5352.48	47.6	-6.4	54	31.97	32.38	12.98	29.73	193	240	A	H
CH 60		5003.74	56.21	-17.79	74	39.57	32.8	13.55	29.71	211	77	P	V
5300MHz		5145.52	45.03	-8.97	54	28.91	32.63	13.21	29.72	211	77	A	V
	*	5300	118.02	-	-	102.3	32.44	13.01	29.73	211	77	P	V
	*	5300	109.81	-	-	94.09	32.44	13.01	29.73	211	77	A	V
		5356.32	57.41	-16.59	74	41.79	32.37	12.98	29.73	211	77	P	V
		5356.8	47.96	-6.04	54	32.34	32.37	12.98	29.73	211	77	A	V

802.11ac VHT20 CH 64 5320MHz	*	5320	113.91	-	-	98.22	32.42	13	29.73	189	238	P	H
	*	5320	105.43	-	-	89.74	32.42	13	29.73	189	238	A	H
		5355.84	56.1	-17.9	74	40.48	32.37	12.98	29.73	189	238	P	H
		5351.36	46.29	-7.71	54	30.66	32.38	12.98	29.73	189	238	A	H
	*	5320	117.18	-	-	101.49	32.42	13	29.73	218	83	P	V
	*	5320	108.99	-	-	93.3	32.42	13	29.73	218	83	A	V
		5356.48	57.91	-16.09	74	42.29	32.37	12.98	29.73	218	83	P	V
		5352.16	48.92	-5.08	54	33.29	32.38	12.98	29.73	218	83	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10520	47.28	-20.92	68.2	48.97	40.1	17.61	59.4	100	0	P	H
VHT20		15780	41.89	-32.11	74	42.23	37.9	21.56	59.8	100	0	P	H
CH 52		10520	46.75	-21.45	68.2	48.44	40.1	17.61	59.4	100	0	P	V
5260MHz		15780	41.82	-32.18	74	42.16	37.9	21.56	59.8	100	0	P	V
802.11ac		10600	46.61	-27.39	74	48.41	40.1	17.68	59.58	100	0	P	H
VHT20		15900	42.52	-31.48	74	42.76	37.9	21.58	59.72	100	0	P	H
CH 60		10600	45.44	-28.56	74	47.24	40.1	17.68	59.58	100	0	P	V
5300MHz		15900	41.57	-32.43	74	41.81	37.9	21.58	59.72	100	0	P	V
802.11ac		10640	46.47	-27.53	74	48.34	40.1	17.7	59.67	100	0	P	H
VHT20		15960	42.58	-31.42	74	42.78	37.9	21.59	59.69	100	0	P	H
CH 64		10640	45.53	-28.47	74	47.4	40.1	17.7	59.67	100	0	P	V
5320MHz		15960	43.61	-30.39	74	43.81	37.9	21.59	59.69	100	0	P	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5134.98	54.51	-19.49	74	38.35	32.64	13.24	29.72	197	241	P	H
		5080.24	46.1	-7.9	54	29.74	32.7	13.37	29.71	197	241	A	H
	*	5270	110.1	-	-	94.32	32.48	13.03	29.73	197	241	P	H
	*	5270	102.28	-	-	86.5	32.48	13.03	29.73	197	241	A	H
802.11ac		5367.36	56.4	-17.6	74	40.8	32.36	12.97	29.73	197	241	P	H
VHT40		5350.08	47.32	-6.68	54	31.69	32.38	12.98	29.73	197	241	A	H
CH 54		5144.5	55.28	-18.72	74	39.16	32.63	13.21	29.72	220	41	P	V
5270MHz		5073.78	46.06	-7.94	54	29.68	32.71	13.38	29.71	220	41	A	V
	*	5270	113.22	-	-	97.44	32.48	13.03	29.73	220	41	P	V
	*	5270	105.65	-	-	89.87	32.48	13.03	29.73	220	41	A	V
		5350.8	57.1	-16.9	74	41.47	32.38	12.98	29.73	220	41	P	V
		5356.32	47.89	-6.11	54	32.27	32.37	12.98	29.73	220	41	A	V
		5057.12	55.13	-18.87	74	38.69	32.73	13.42	29.71	200	248	P	H
		5117.64	45.59	-8.41	54	29.37	32.66	13.28	29.72	200	248	A	H
	*	5310	108.83	-	-	93.12	32.43	13.01	29.73	200	248	P	H
	*	5310	101.06	-	-	85.35	32.43	13.01	29.73	200	248	A	H
802.11ac		5351.04	60.14	-13.86	74	44.51	32.38	12.98	29.73	200	248	P	H
VHT40		5350.08	51.8	-2.2	54	36.17	32.38	12.98	29.73	200	248	A	H
CH 62		5077.18	56.54	-17.46	74	40.17	32.71	13.37	29.71	224	70	P	V
5310MHz		5145.52	46.06	-7.94	54	29.94	32.63	13.21	29.72	224	70	A	V
	*	5310	111.22	-	-	95.51	32.43	13.01	29.73	224	70	P	V
	*	5310	103.3	-	-	87.59	32.43	13.01	29.73	224	70	A	V
		5350.56	59.46	-14.54	74	43.83	32.38	12.98	29.73	224	70	P	V
		5350.08	52.92	-1.08	54	37.29	32.38	12.98	29.73	224	70	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5011.9	55.16	-18.84	74	38.55	32.79	13.53	29.71	217	244	P	H
		5072.08	45.44	-8.56	54	29.05	32.71	13.39	29.71	217	244	A	H
	*	5290	102.8	-	-	87.06	32.45	13.02	29.73	217	244	P	H
	*	5290	96.3	-	-	80.56	32.45	13.02	29.73	217	244	A	H
		5351.76	57.32	-16.68	74	41.69	32.38	12.98	29.73	217	244	P	H
		5350.8	50.18	-3.82	54	34.55	32.38	12.98	29.73	217	244	A	H
		5029.24	54.76	-19.24	74	38.22	32.76	13.49	29.71	214	70	P	V
		5145.52	45.78	-8.22	54	29.66	32.63	13.21	29.72	214	70	A	V
	*	5290	105.98	-	-	90.24	32.45	13.02	29.73	214	70	P	V
	*	5290	98.17	-	-	82.43	32.45	13.02	29.73	214	70	A	V
		5353.44	60.58	-13.42	74	44.95	32.38	12.98	29.73	214	70	P	V
		5353.2	52.58	-1.42	54	36.95	32.38	12.98	29.73	214	70	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5455.28	54.9	-19.1	74	39.24	32.25	13.15	29.74	202	245	P	H
		5462.32	55.8	-12.4	68.2	40.12	32.25	13.17	29.74	202	245	P	H
		5460	46.24	-7.76	54	30.57	32.25	13.16	29.74	202	245	A	H
	*	5500	114.02	-	-	98.25	32.2	13.31	29.74	202	245	P	H
	*	5500	106.12	-	-	90.35	32.2	13.31	29.74	202	245	A	H
		5459.6	56.24	-17.76	74	40.57	32.25	13.16	29.74	223	113	P	V
		5465.04	56	-12.2	68.2	40.32	32.24	13.18	29.74	223	113	P	V
		5452.72	48.07	-5.93	54	32.41	32.26	13.14	29.74	223	113	A	V
	*	5500	116.04	-	-	100.27	32.2	13.31	29.74	223	113	P	V
	*	5500	108.24	-	-	92.47	32.2	13.31	29.74	223	113	A	V
802.11a CH 116 5580MHz		5449.12	54.39	-19.61	74	38.75	32.26	13.12	29.74	206	249	P	H
		5465.2	53.7	-14.5	68.2	38.02	32.24	13.18	29.74	206	249	P	H
		5434.96	44.07	-9.93	54	28.46	32.28	13.07	29.74	206	249	A	H
	*	5580	114.48	-	-	98.29	32.38	13.59	29.78	206	249	P	H
	*	5580	106.51	-	-	90.32	32.38	13.59	29.78	206	249	A	H
		5753.03	55.9	-12.3	68.2	38.93	32.76	14.07	29.86	206	249	P	H
		5452.48	54.48	-19.52	74	38.82	32.26	13.14	29.74	226	115	P	V
		5465.2	54.35	-13.85	68.2	38.67	32.24	13.18	29.74	226	115	P	V
		5452.72	47.08	-6.92	54	31.42	32.26	13.14	29.74	226	115	A	V
	*	5580	115.83	-	-	99.64	32.38	13.59	29.78	226	115	P	V
	*	5580	108.39	-	-	92.2	32.38	13.59	29.78	226	115	A	V
		5759.645	56.3	-11.9	68.2	39.3	32.77	14.09	29.86	226	115	P	V

802.11a CH 140 5700MHz	*	5700	114.33	-	-	97.6	32.64	13.93	29.84	213	246	P	H
	*	5700	106.9	-	-	90.17	32.64	13.93	29.84	213	246	A	H
		5727.24	58.84	-9.36	68.2	41.99	32.7	14	29.85	213	246	P	H
	*	5700	116.01	-	-	99.28	32.64	13.93	29.84	203	119	P	V
	*	5700	108.01	-	-	91.28	32.64	13.93	29.84	203	119	A	V
		5730.44	59.65	-8.55	68.2	42.78	32.71	14.01	29.85	203	119	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 VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5457.36	56.52	-17.48	74	40.86	32.25	13.15	29.74	220	238	P	H
		5468.56	55.66	-12.54	68.2	39.97	32.24	13.19	29.74	220	238	P	H
		5453.2	45.88	-8.12	54	30.22	32.26	13.14	29.74	220	238	A	H
802.11ac	*	5500	113.84	-	-	98.07	32.2	13.31	29.74	220	238	P	H
VHT20	*	5500	105.54	-	-	89.77	32.2	13.31	29.74	220	238	A	H
CH 100		5452.88	58.11	-15.89	74	42.45	32.26	13.14	29.74	227	65	P	V
5500MHz		5468.24	58.4	-9.8	68.2	42.71	32.24	13.19	29.74	227	65	P	V
		5452.72	48.83	-5.17	54	33.17	32.26	13.14	29.74	227	65	A	V
	*	5500	116.36	-	-	100.59	32.2	13.31	29.74	227	65	P	V
	*	5500	108.16	-	-	92.39	32.2	13.31	29.74	227	65	A	V
		5414.08	54.89	-19.11	74	39.32	32.3	13	29.73	216	240	P	H
		5460.88	55.07	-13.13	68.2	39.39	32.25	13.17	29.74	216	240	P	H
		5447.68	44.01	-9.99	54	28.37	32.26	13.12	29.74	216	240	A	H
	*	5580	113.79	-	-	97.6	32.38	13.59	29.78	216	240	P	H
802.11ac	*	5580	106.01	-	-	89.82	32.38	13.59	29.78	216	240	A	H
VHT20		5730.035	54.83	-13.37	68.2	37.96	32.71	14.01	29.85	216	240	P	H
CH 116		5452.72	55.96	-18.04	74	40.3	32.26	13.14	29.74	200	59	P	V
5580MHz		5464.96	55.77	-12.43	68.2	40.09	32.24	13.18	29.74	200	59	P	V
		5452.72	47.38	-6.62	54	31.72	32.26	13.14	29.74	200	59	A	V
	*	5580	117	-	-	100.81	32.38	13.59	29.78	200	59	P	V
	*	5580	108.94	-	-	92.75	32.38	13.59	29.78	200	59	A	V
		5742.95	56.13	-12.07	68.2	39.21	32.73	14.05	29.86	200	59	P	V

802.11ac VHT20 CH 140 5700MHz	*	5700	114.37	-	-	97.64	32.64	13.93	29.84	220	239	P	H
	*	5700	106.43	-	-	89.7	32.64	13.93	29.84	220	239	A	H
		5726.44	58.84	-9.36	68.2	41.99	32.7	14	29.85	220	239	P	H
	*	5700	116.59	-	-	99.86	32.64	13.93	29.84	196	57	P	V
	*	5700	108.75	-	-	92.02	32.64	13.93	29.84	196	57	A	V
		5760.04	59.86	-8.34	68.2	42.86	32.77	14.09	29.86	196	57	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11000	44.72	-29.28	74	47.11	40.1	17.99	60.48	100	0	P	H
VHT20		16500	44.42	-23.78	68.2	40.98	40.1	22.28	58.94	100	0	P	H
CH 100		11000	45.23	-28.77	74	47.62	40.1	17.99	60.48	100	0	P	V
5500MHz		16500	44.54	-23.66	68.2	41.1	40.1	22.28	58.94	100	0	P	V
802.11ac		11160	44.98	-29.02	74	47.46	39.97	18.12	60.57	100	0	P	H
VHT20		16740	46.2	-22	68.2	41.02	40.96	22.6	58.38	100	0	P	H
CH 116		11160	44.53	-29.47	74	47.01	39.97	18.12	60.57	100	0	P	V
5580MHz		16740	46.14	-22.06	68.2	40.96	40.96	22.6	58.38	100	0	P	V
802.11ac		11400	45.08	-28.92	74	47.7	39.78	18.3	60.7	100	0	P	H
VHT20		17100	48.08	-20.12	68.2	39.98	42.42	23.09	57.41	100	0	P	H
CH 140		11400	44.57	-29.43	74	47.19	39.78	18.3	60.7	100	0	P	V
5700MHz		17100	48.21	-19.99	68.2	40.11	42.42	23.09	57.41	100	0	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5457.52	57.57	-16.43	74	41.91	32.25	13.15	29.74	209	244	P	H
		5470	64.03	-4.17	68.2	48.33	32.24	13.2	29.74	209	244	P	H
		5459.68	49.39	-4.61	54	33.72	32.25	13.16	29.74	209	244	A	H
	*	5510	111.69	-	-	95.87	32.22	13.34	29.74	209	244	P	H
802.11ac	*	5510	104.03	-	-	88.21	32.22	13.34	29.74	209	244	A	H
VHT40		5738.225	56.61	-11.59	68.2	39.71	32.72	14.03	29.85	209	244	P	H
CH 102		5459.68	60.41	-13.59	74	44.74	32.25	13.16	29.74	221	101	P	V
5510MHz		5467.12	65.39	-2.81	68.2	49.7	32.24	13.19	29.74	221	101	P	V
		5459.92	52.25	-1.75	54	36.58	32.25	13.16	29.74	221	101	A	V
	*	5510	113.35	-	-	97.53	32.22	13.34	29.74	221	101	P	V
	*	5510	105.92	-	-	90.1	32.22	13.34	29.74	221	101	A	V
		5742.32	57.16	-11.04	68.2	40.25	32.73	14.04	29.86	221	101	P	V
		5429.2	54.32	-19.68	74	38.73	32.28	13.05	29.74	213	241	P	H
		5464	56.29	-11.91	68.2	40.61	32.24	13.18	29.74	213	241	P	H
		5458.96	46.09	-7.91	54	30.42	32.25	13.16	29.74	213	241	A	H
	*	5550	112.71	-	-	96.68	32.31	13.48	29.76	213	241	P	H
802.11ac	*	5550	104.97	-	-	88.94	32.31	13.48	29.76	213	241	A	H
VHT40		5735.705	54.99	-13.21	68.2	38.09	32.72	14.03	29.85	213	241	P	H
CH 110		5452.72	58.33	-15.67	74	42.67	32.26	13.14	29.74	223	68	P	V
5550MHz		5469.76	59.03	-9.17	68.2	43.33	32.24	13.2	29.74	223	68	P	V
		5452.72	50.34	-3.66	54	34.68	32.26	13.14	29.74	223	68	A	V
	*	5550	115.53	-	-	99.5	32.31	13.48	29.76	223	68	P	V
	*	5550	107.77	-	-	91.74	32.31	13.48	29.76	223	68	A	V
		5753.975	56.01	-12.19	68.2	39.03	32.76	14.08	29.86	223	68	P	V

		5445.9	54.89	-19.11	74	39.26	32.26	13.11	29.74	208	249	P	H
		5464.8	53.1	-15.1	68.2	37.42	32.24	13.18	29.74	208	249	P	H
		5446.95	47.6	-6.4	54	31.96	32.26	13.12	29.74	208	249	A	H
	*	5670	112.9	-	-	96.3	32.57	13.85	29.82	208	249	P	H
802.11ac	*	5670	105.37	-	-	88.77	32.57	13.85	29.82	208	249	A	H
VHT40		5733.85	57.98	-10.22	68.2	41.1	32.71	14.02	29.85	208	249	P	H
CH 134		5446.95	57.71	-16.29	74	42.07	32.26	13.12	29.74	227	57	P	V
5670MHz		5461.3	53.88	-14.32	68.2	38.2	32.25	13.17	29.74	227	57	P	V
		5447.65	51.5	-2.5	54	35.86	32.26	13.12	29.74	227	57	A	V
	*	5670	115.05	-	-	98.45	32.57	13.85	29.82	227	57	P	V
	*	5670	106.93	-	-	90.33	32.57	13.85	29.82	227	57	A	V
		5726.15	59.56	-8.64	68.2	42.71	32.7	14	29.85	227	57	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11100	45.88	-28.12	74	48.33	40.02	18.07	60.54	100	0	P	H
VHT40		16650	45.7	-22.5	68.2	41.17	40.64	22.48	58.59	100	0	P	H
CH 110		11100	45.25	-28.75	74	47.7	40.02	18.07	60.54	100	0	P	V
5550MHz		16650	46.07	-22.13	68.2	41.54	40.64	22.48	58.59	100	0	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 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.92	58.51	-15.49	74	42.84	32.25	13.16	29.74	208	246	P	H
		5466.16	58.44	-9.76	68.2	42.76	32.24	13.18	29.74	208	246	P	H
		5459.92	50.57	-3.43	54	34.9	32.25	13.16	29.74	208	246	A	H
	*	5530	104.95	-	-	89.02	32.27	13.41	29.75	208	246	P	H
802.11ac	*	5530	97.09	-	-	81.16	32.27	13.41	29.75	208	246	A	H
VHT80		5759.645	55.94	-12.26	68.2	38.94	32.77	14.09	29.86	208	246	P	H
CH 106		5449.84	59.2	-14.8	74	43.55	32.26	13.13	29.74	217	108	P	V
5530MHz		5466.16	60.01	-8.19	68.2	44.33	32.24	13.18	29.74	217	108	P	V
		5452.96	51.99	-2.01	54	36.33	32.26	13.14	29.74	217	108	A	V
	*	5530	106.45	-	-	90.52	32.27	13.41	29.75	217	108	P	V
	*	5530	98.59	-	-	82.66	32.27	13.41	29.75	217	108	A	V
		5748.62	55.98	-12.22	68.2	39.03	32.75	14.06	29.86	217	108	P	V
		5440.48	55.11	-18.89	74	39.49	32.27	13.09	29.74	209	246	P	H
		5466.88	54.95	-13.25	68.2	39.26	32.24	13.19	29.74	209	246	P	H
		5455.84	46.05	-7.95	54	30.39	32.25	13.15	29.74	209	246	A	H
	*	5610	111.26	-	-	94.92	32.44	13.69	29.79	209	246	P	H
802.11ac	*	5610	103.88	-	-	87.54	32.44	13.69	29.79	209	246	A	H
VHT80		5733.185	57.32	-10.88	68.2	40.44	32.71	14.02	29.85	209	246	P	H
CH 122		5448.16	56.73	-17.27	74	41.09	32.26	13.12	29.74	204	62	P	V
5610MHz		5467.84	58.04	-10.16	68.2	42.35	32.24	13.19	29.74	204	62	P	V
		5452.72	49.36	-4.64	54	33.7	32.26	13.14	29.74	204	62	A	V
	*	5610	113.13	-	-	96.79	32.44	13.69	29.79	204	62	P	V
	*	5610	105.58	-	-	89.24	32.44	13.69	29.79	204	62	A	V
		5725.625	60.61	-7.59	68.2	43.76	32.7	14	29.85	204	62	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 122 5610MHz		11220	45.13	-28.87	74	47.65	39.92	18.16	60.6	100	0	P	H
		16830	46.95	-21.25	68.2	41.11	41.29	22.72	58.17	100	0	P	H
		11220	45.11	-28.89	74	47.63	39.92	18.16	60.6	100	0	P	V
		16830	47.09	-21.11	68.2	41.25	41.29	22.72	58.17	100	0	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 (Fundamental @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz	*	5720	114.38	-	-	97.57	32.68	13.98	29.85	203	246	P	H
	*	5720	107.07	-	-	90.26	32.68	13.98	29.85	203	246	A	H
	*	5720	116.88	-	-	100.07	32.68	13.98	29.85	216	64	P	V
	*	5720	108.88	-	-	92.07	32.68	13.98	29.85	216	64	A	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 VHT20 (Fundamental @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 144 5720MHz	*	5720	115.1	-	-	98.29	32.68	13.98	29.85	210	249	P	H
	*	5720	106.83	-	-	90.02	32.68	13.98	29.85	210	249	A	H
	*	5720	117.15	-	-	100.34	32.68	13.98	29.85	194	66	P	V
	*	5720	108.73	-	-	91.92	32.68	13.98	29.85	194	66	A	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11440	44.02	-29.98	74	46.67	39.75	18.33	60.73	100	0	P	H
VHT20		17160	49.23	-18.97	68.2	40.53	42.73	23.16	57.19	100	0	P	H
CH 144		11440	44.35	-29.65	74	47	39.75	18.33	60.73	100	0	P	V
5720MHz		17160	48.11	-20.09	68.2	39.41	42.73	23.16	57.19	100	0	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 VHT40 (Fundamental @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5710	113.89	-	-	97.11	32.66	13.96	29.84	208	250	P	H
VHT40	*	5710	106.21	-	-	89.43	32.66	13.96	29.84	208	250	A	H
CH 142	*	5710	115.77	-	-	98.99	32.66	13.96	29.84	226	56	P	V
5710MHz	*	5710	107.91	-	-	91.13	32.66	13.96	29.84	226	56	A	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11420	44.56	-29.44	74	47.2	39.76	18.32	60.72	100	0	P	H
VHT40		17130	48.16	-20.04	68.2	39.76	42.58	23.12	57.3	100	0	P	H
CH 142		11420	44.45	-29.55	74	47.09	39.76	18.32	60.72	100	0	P	V
5710MHz		17130	48.48	-19.72	68.2	40.08	42.58	23.12	57.3	100	0	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 (Fundamental @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5690	105.07	-	-	88.38	32.62	13.9	29.83	219	248	P	H
VHT80	*	5690	97.38	-	-	80.69	32.62	13.9	29.83	219	248	A	H
CH 138	*	5690	107.58	-	-	90.89	32.62	13.9	29.83	220	57	P	V
5690MHz	*	5690	99.45	-	-	82.76	32.62	13.9	29.83	220	57	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (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		11380	44.33	-29.67	74	46.93	39.8	18.29	60.69	100	0	P	H
VHT80		17070	48.39	-19.81	68.2	40.6	42.26	23.05	57.52	100	0	P	H
CH 138		11380	44.92	-29.08	74	47.52	39.8	18.29	60.69	100	0	P	V
5690MHz		17070	47.51	-20.69	68.2	39.72	42.26	23.05	57.52	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT40 (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 LF		106.63	24.65	-18.85	43.5	39.13	16.78	1.11	32.37	-	-	P	H
		163.86	27.14	-16.36	43.5	41.82	16.11	1.57	32.36	-	-	P	H
		588.72	26.73	-19.27	46	30.18	25.45	3.77	32.67	-	-	P	H
		750.71	31.43	-14.57	46	31.18	28.16	4.53	32.44	-	-	P	H
		893.3	32.14	-13.86	46	30.31	29.01	4.65	31.83	-	-	P	H
		930.16	32.84	-13.16	46	29.69	30.04	4.63	31.52	100	0	P	H
		34.85	23.93	-16.07	40	34.05	22.1	0.23	32.45	-	-	P	V
		108.57	23.53	-19.97	43.5	37.85	16.93	1.12	32.37	-	-	P	V
		176.47	23.39	-20.11	43.5	38.92	15.21	1.61	32.35	-	-	P	V
		751.68	30.3	-15.7	46	30.05	28.17	4.52	32.44	-	-	P	V
		856.44	32.54	-13.46	46	30.81	29.11	4.66	32.04	-	-	P	V
		945.68	33.7	-12.3	46	29.86	30.62	4.61	31.39	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b 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

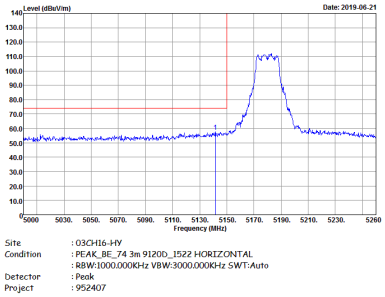
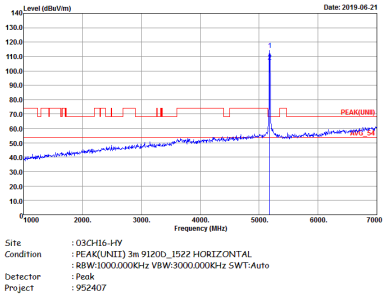
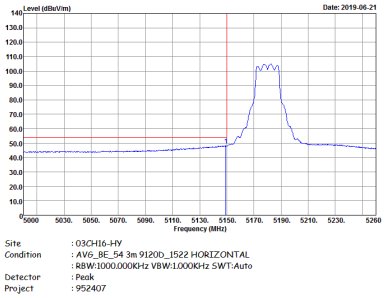
Test Engineer :	Jacky Hung, Austin Li, CR Liao	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

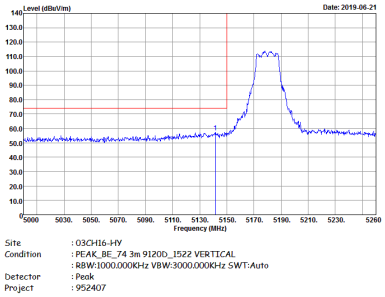
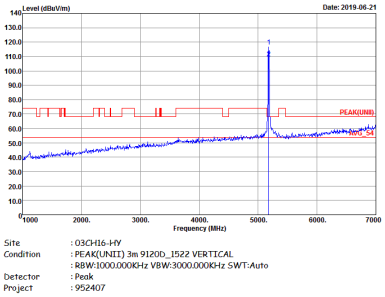
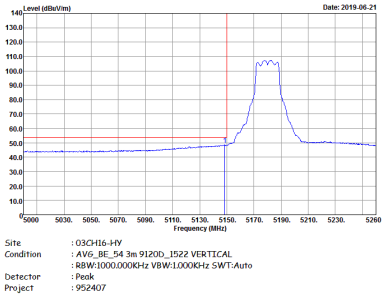
Note symbol

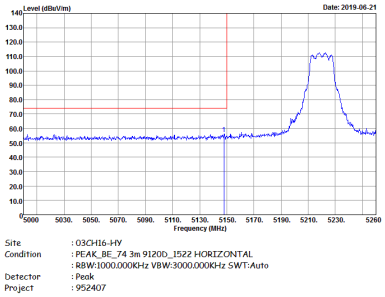
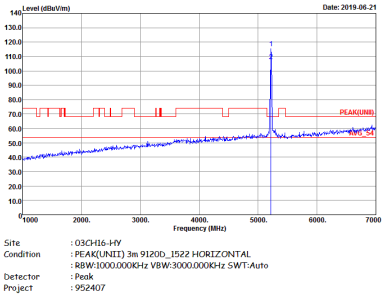
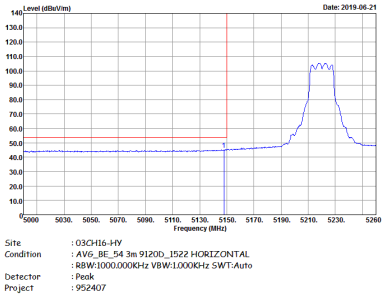
-L	**Low channel location**
-R	**High channel location**

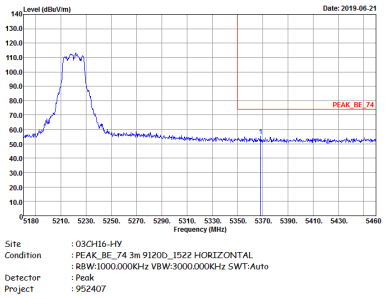
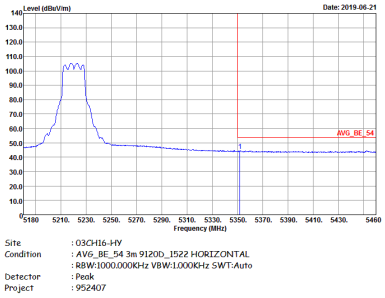
Band 1 - 5150~5250MHz

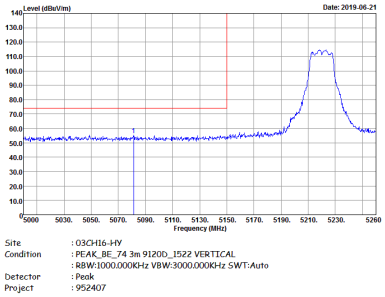
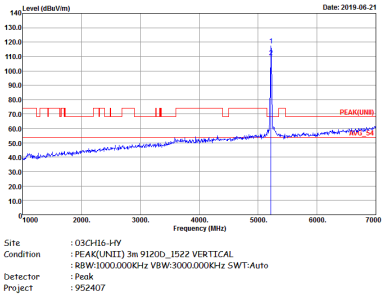
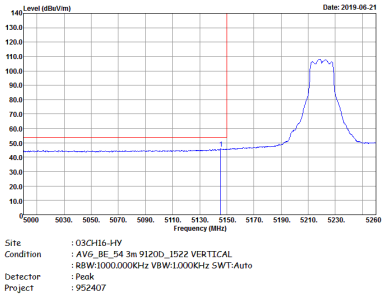
WIFI 802.11a (Band Edge @ 3m)

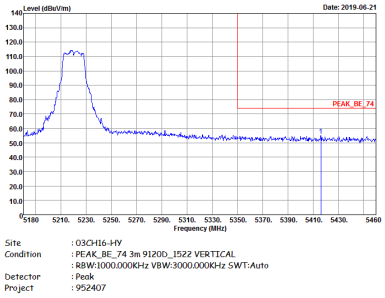
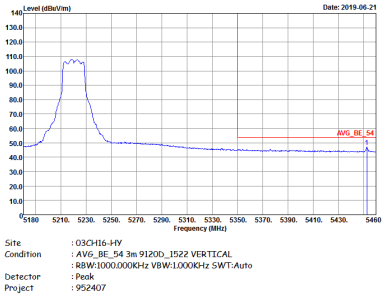
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

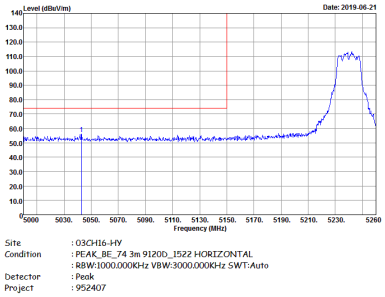
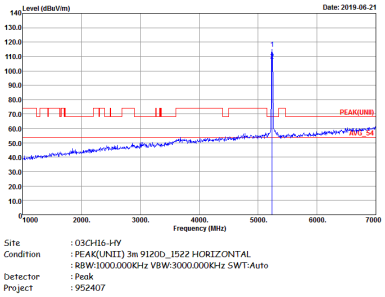
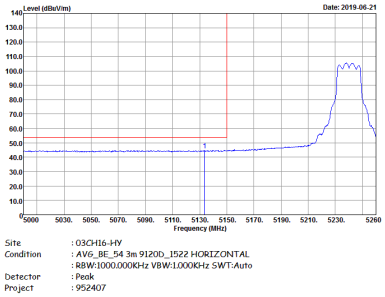
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

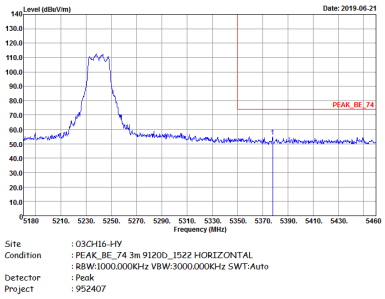
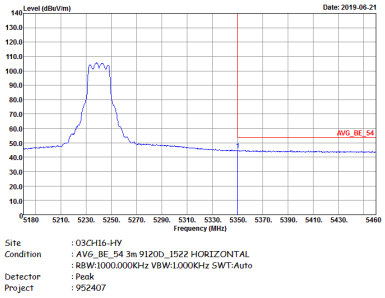
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

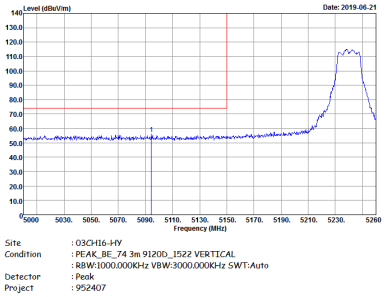
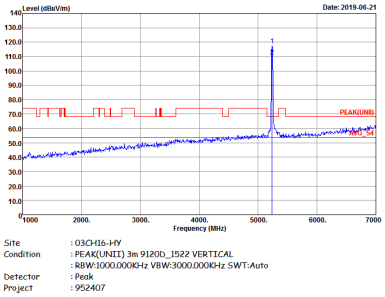
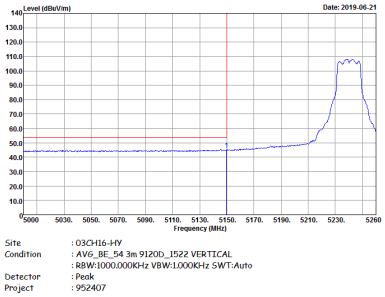
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

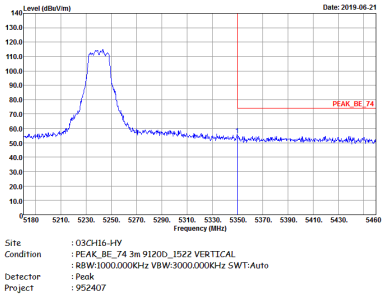
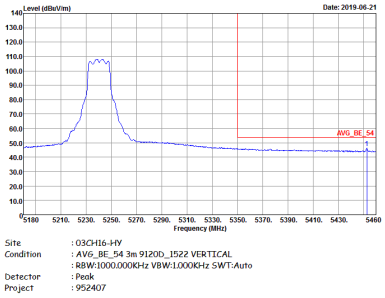
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

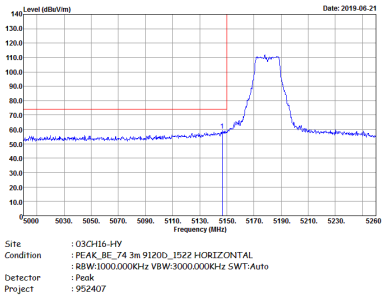
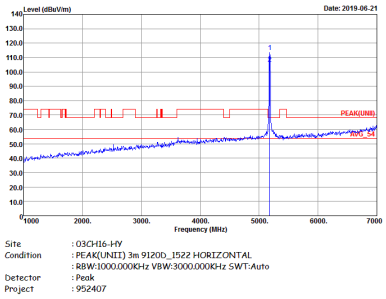
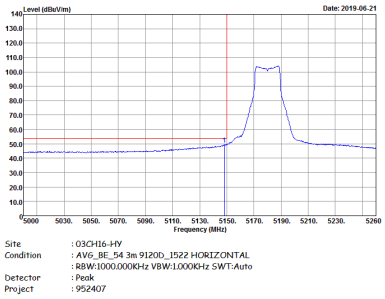
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

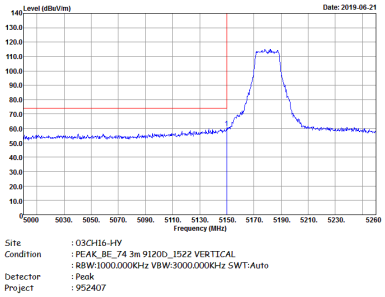
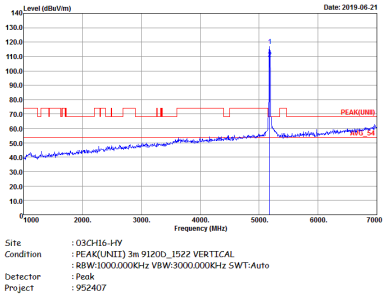
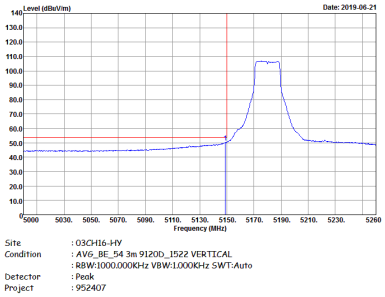
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

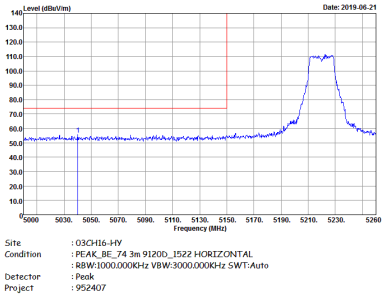
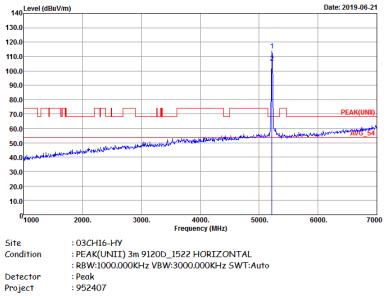
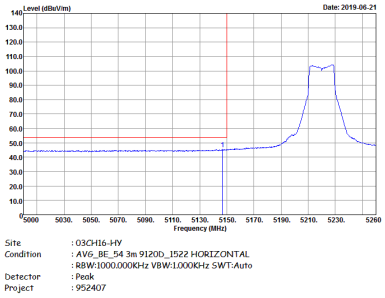
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

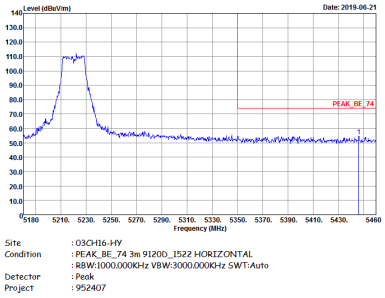
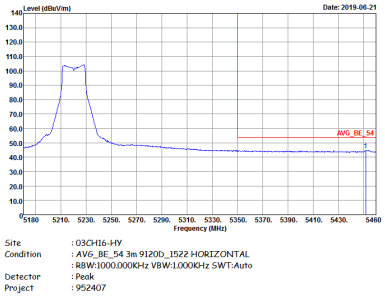
Band 1 5150~5250MHz

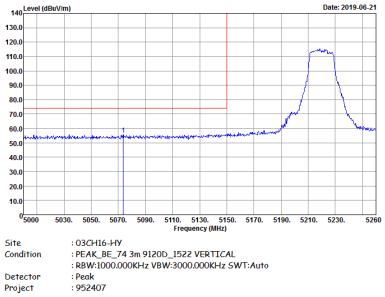
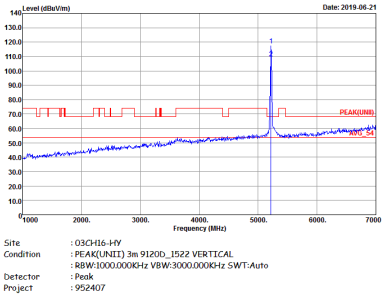
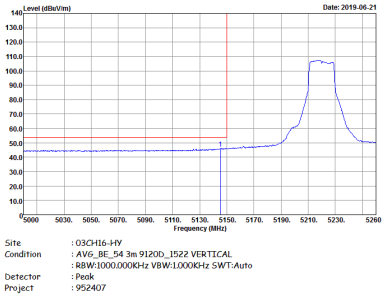
WIFI 802.11ac VHT20 (Band Edge @ 3m)

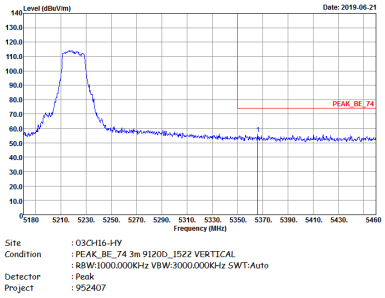
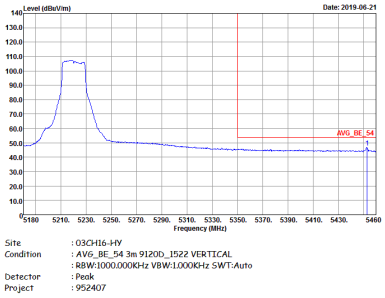
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

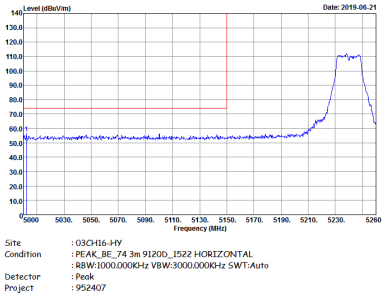
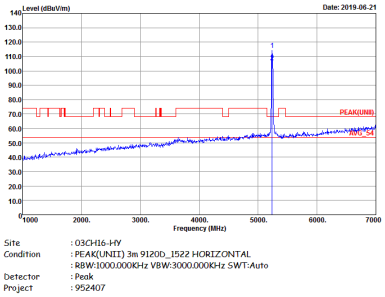
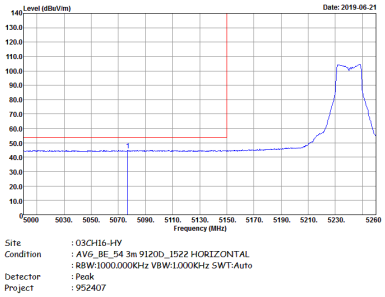
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

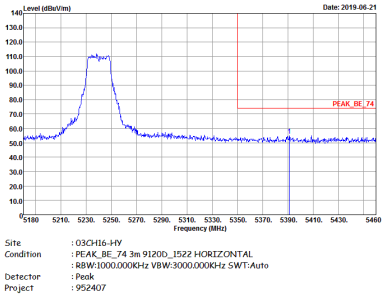
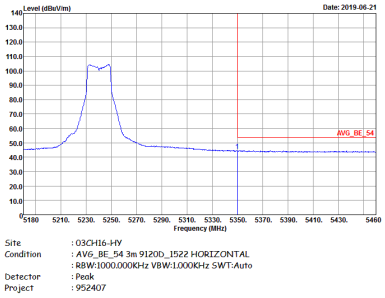
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

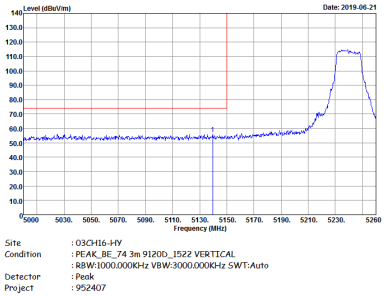
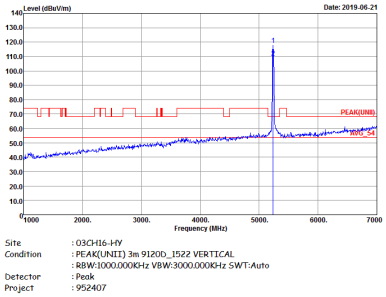
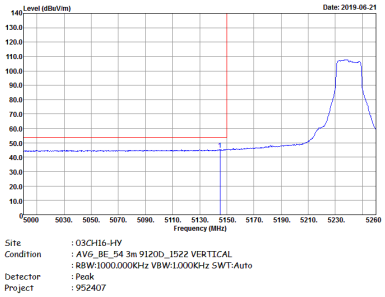
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

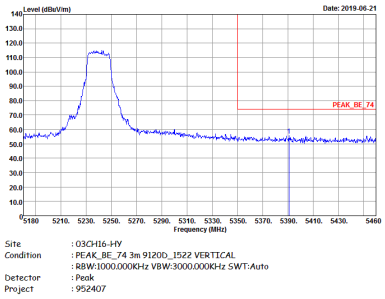
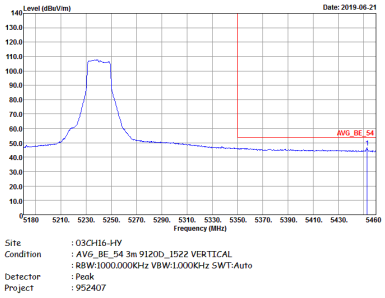
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

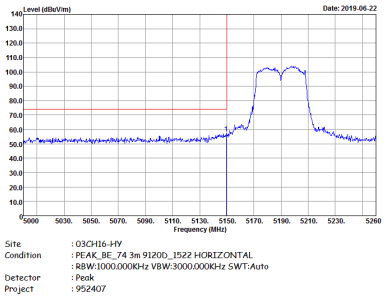
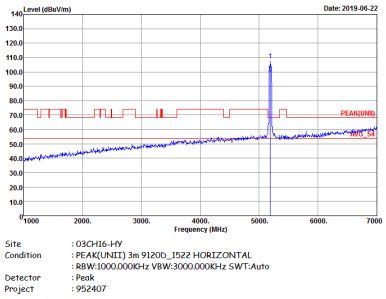
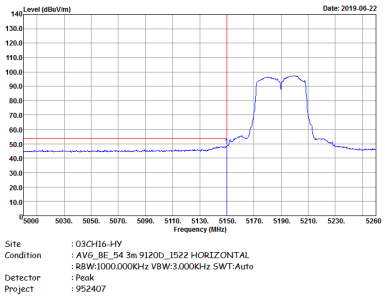
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

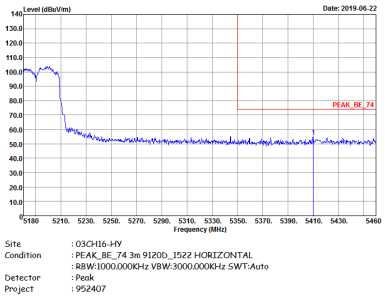
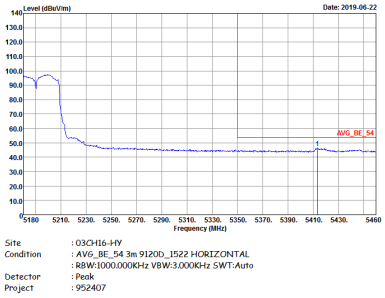
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

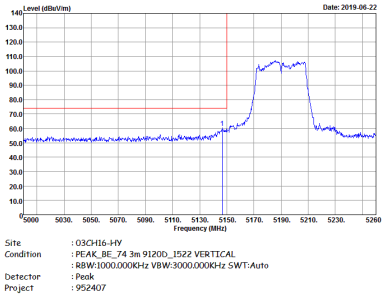
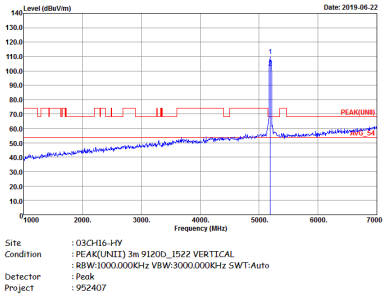
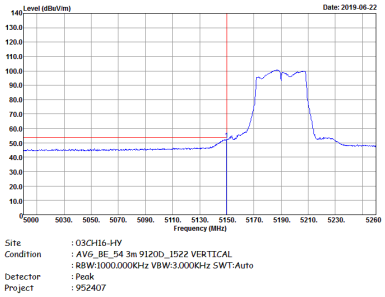
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

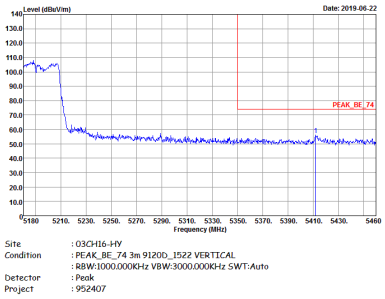
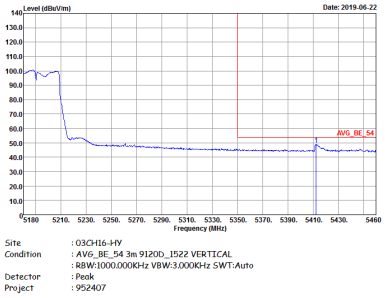
Band 1 5150~5250MHz

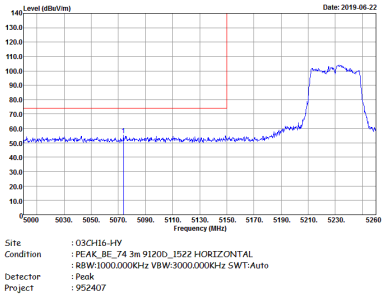
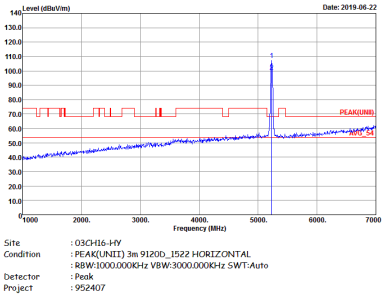
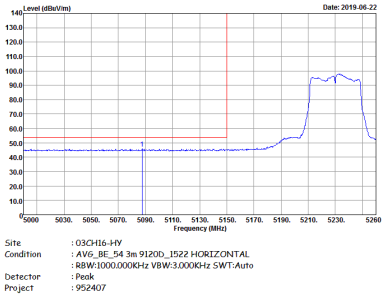
WIFI 802.11ac VHT40 (Band Edge @ 3m)

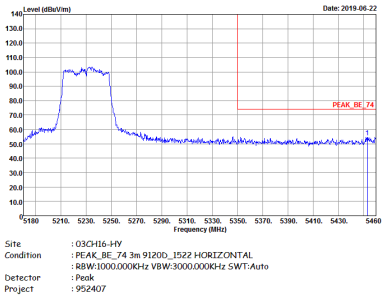
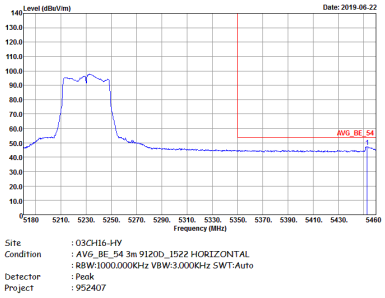
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

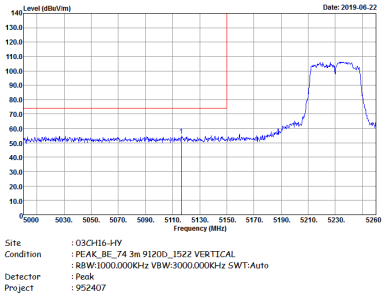
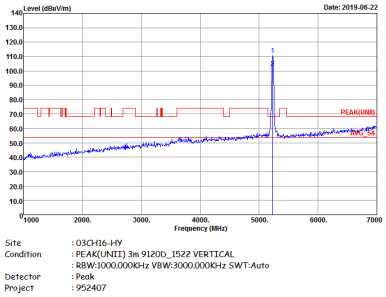
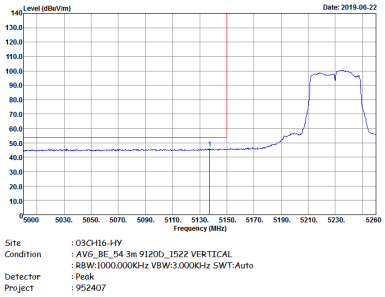
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

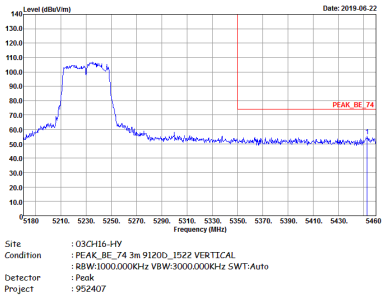
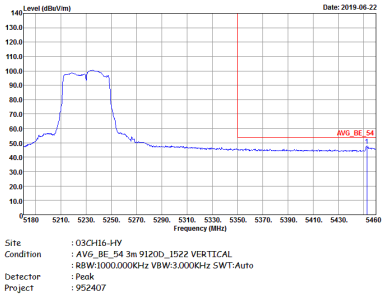
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

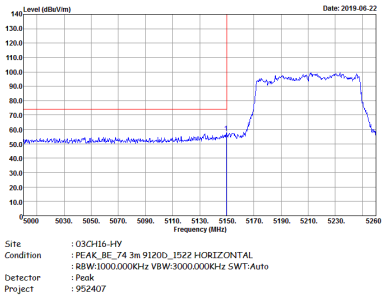
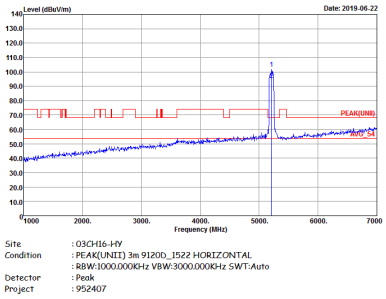
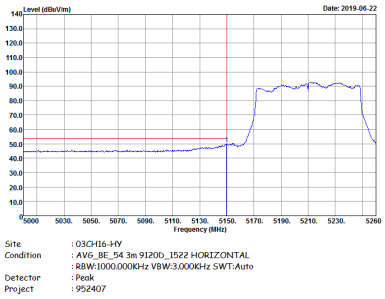
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

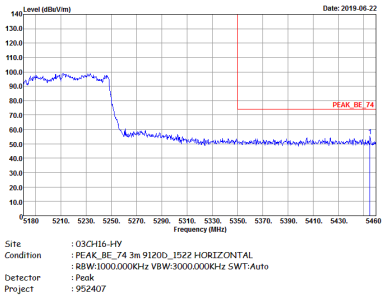
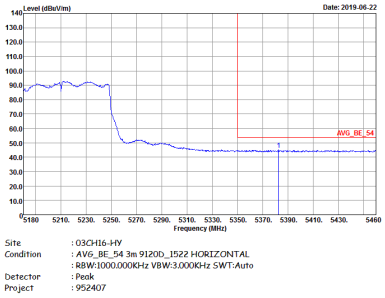
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

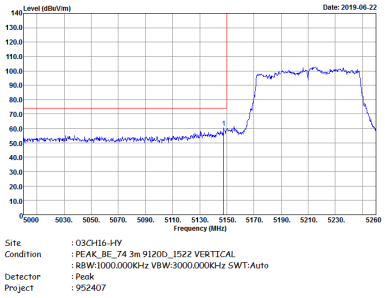
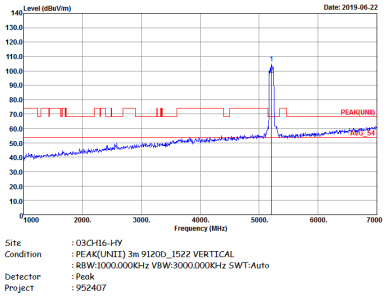
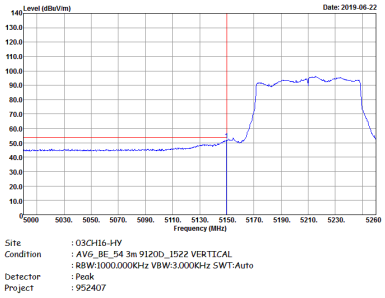
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

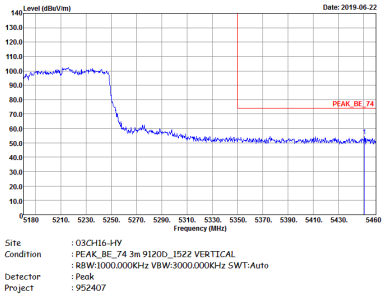
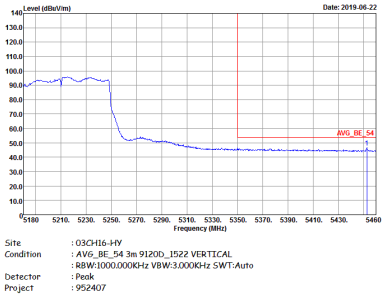
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

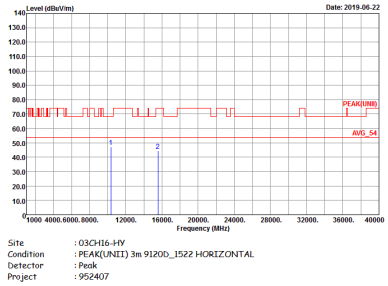
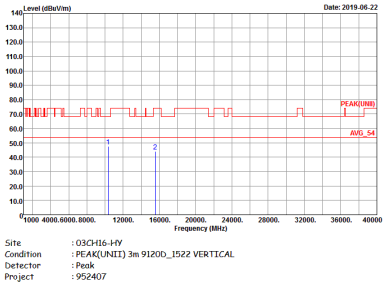
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

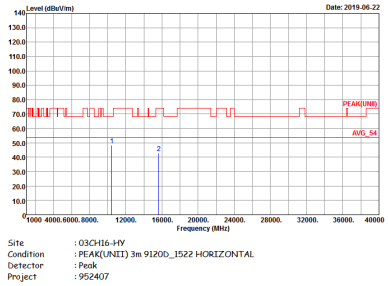
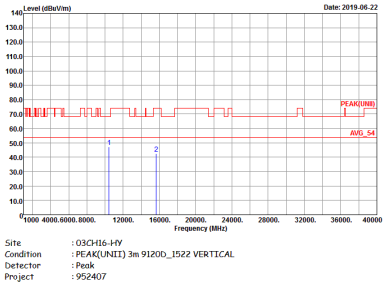
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

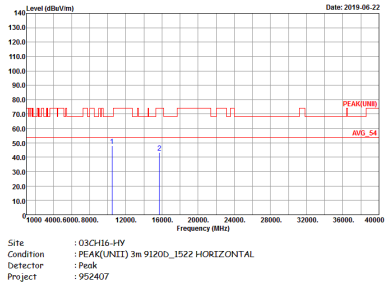
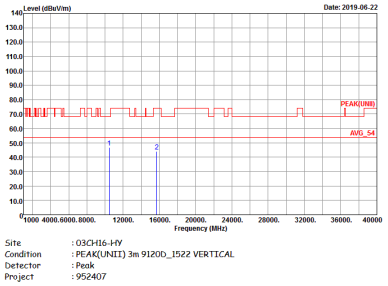
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

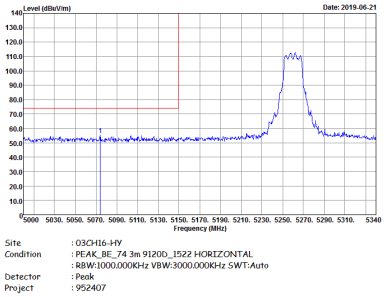
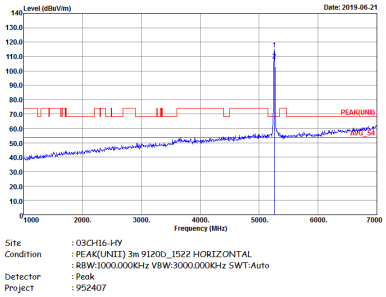
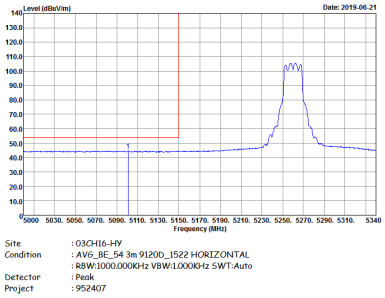
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

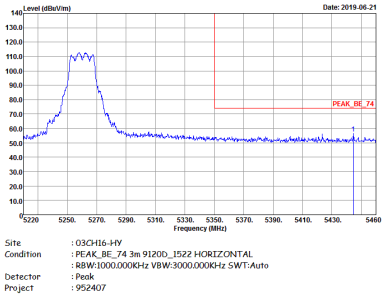
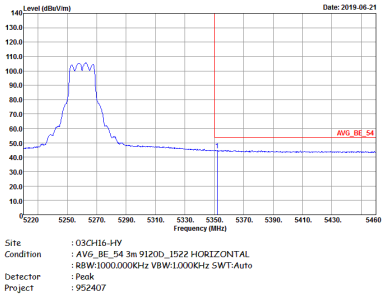
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

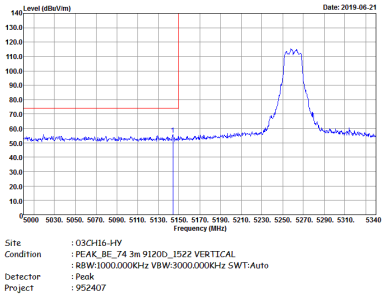
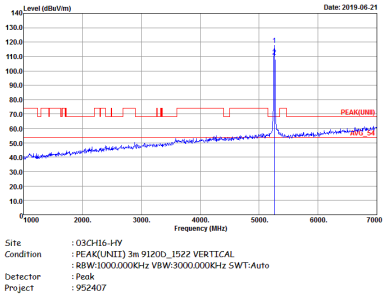
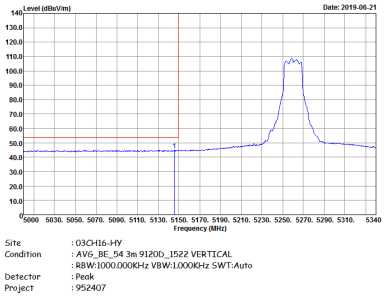
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

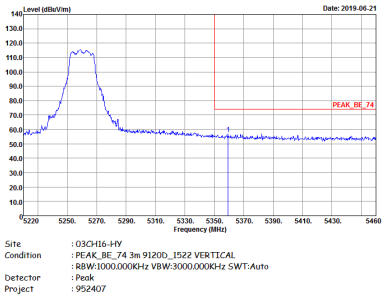
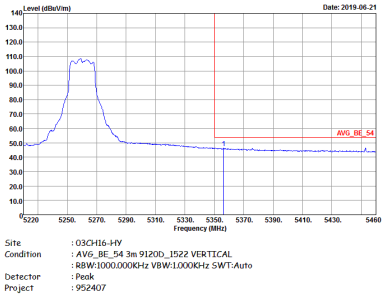
Band 2 - 5250~5350MHz

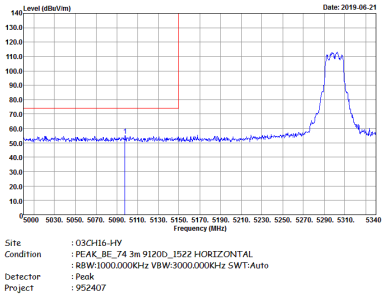
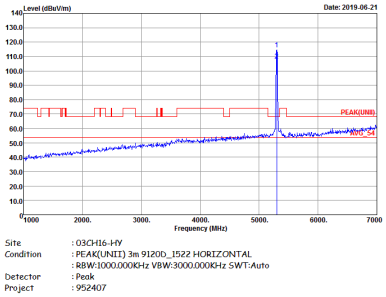
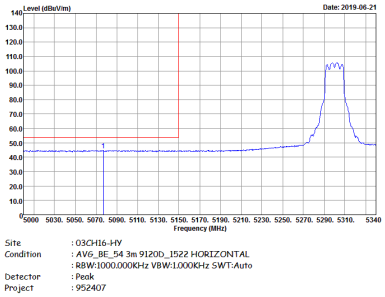
WIFI 802.11a (Band Edge @ 3m)

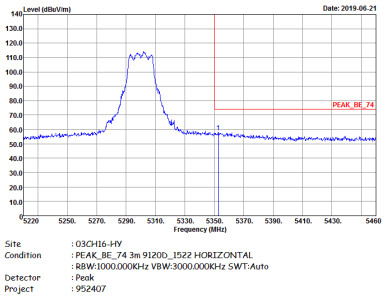
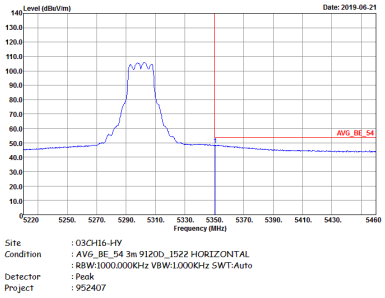
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

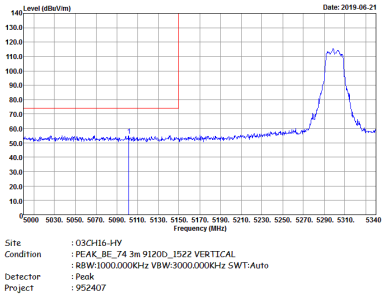
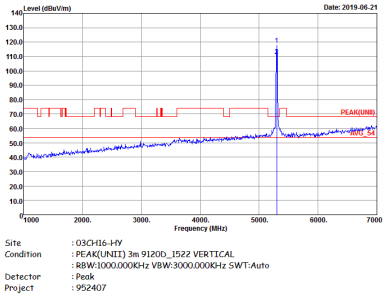
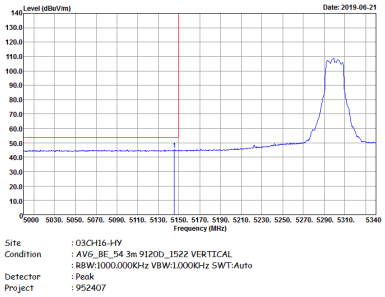
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

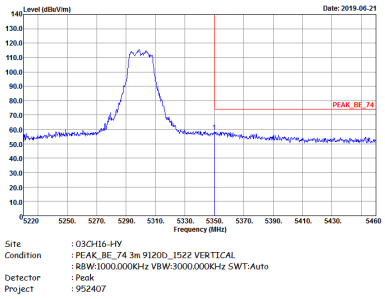
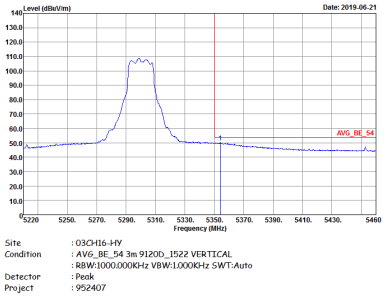
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

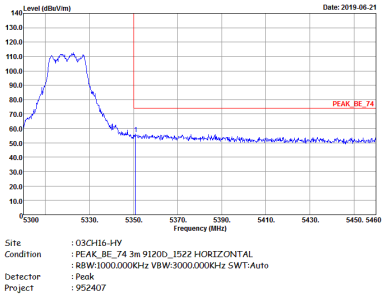
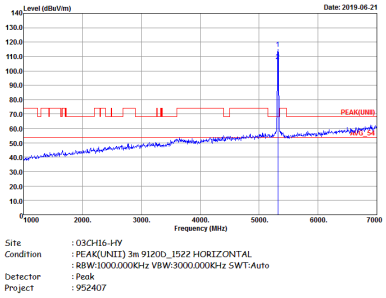
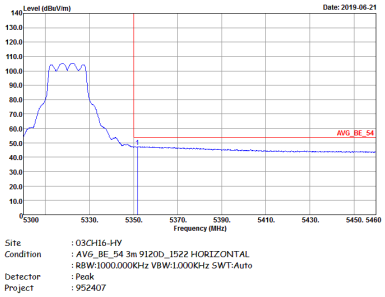
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

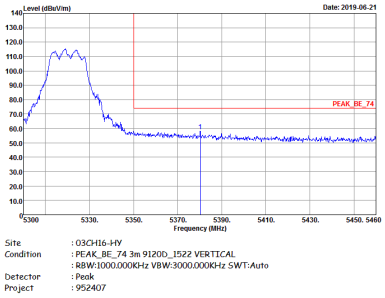
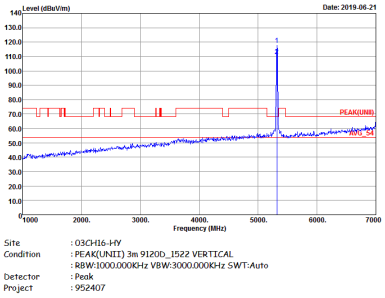
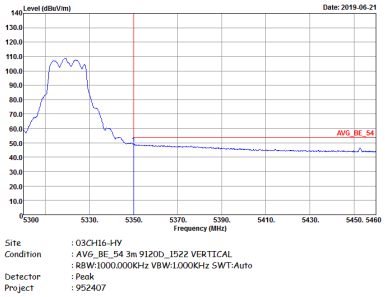
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

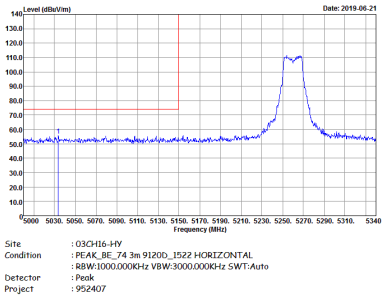
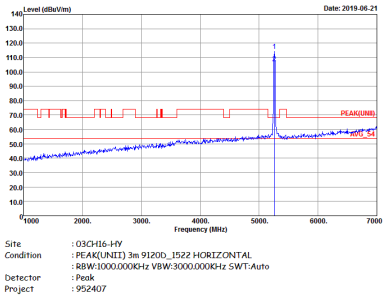
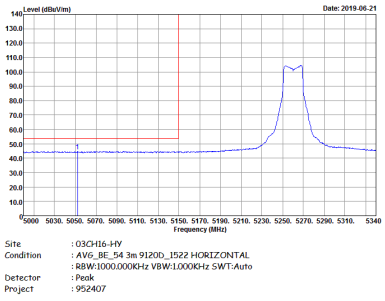
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

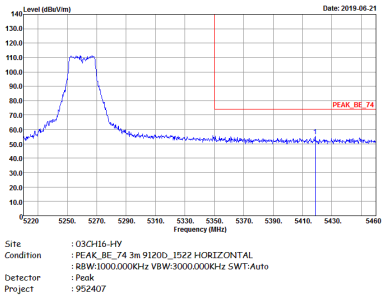
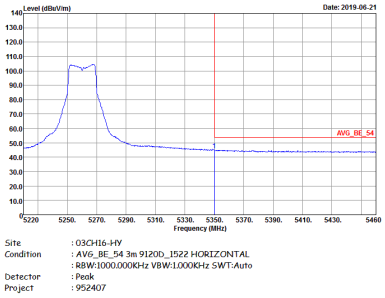
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

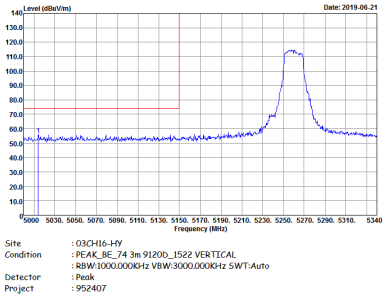
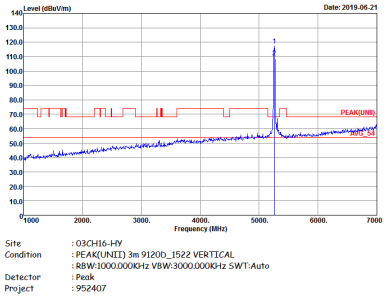
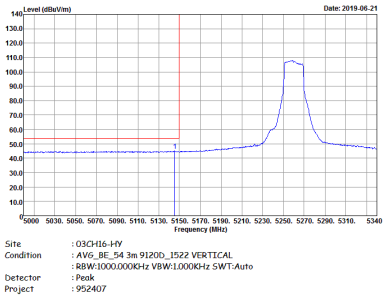
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

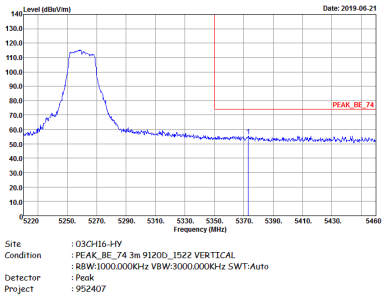
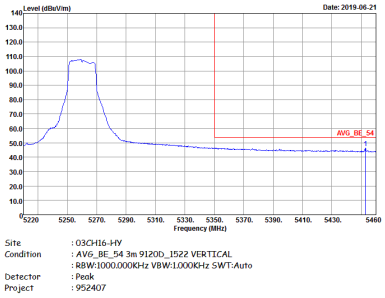
Band 2 5250~5350MHz

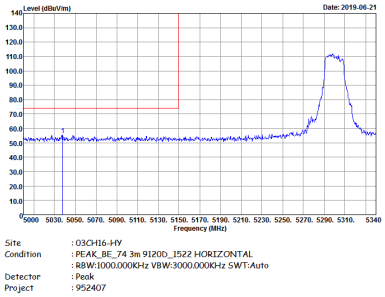
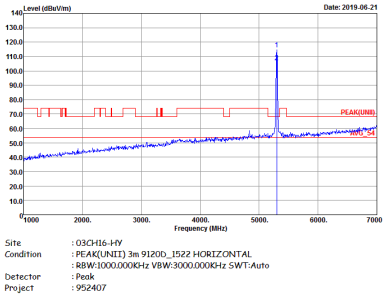
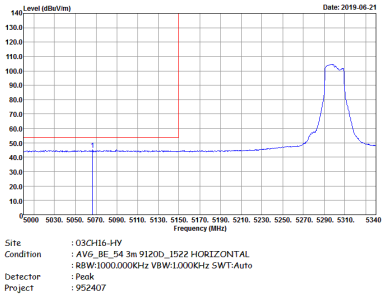
WIFI 802.11ac VHT20 (Band Edge @ 3m)

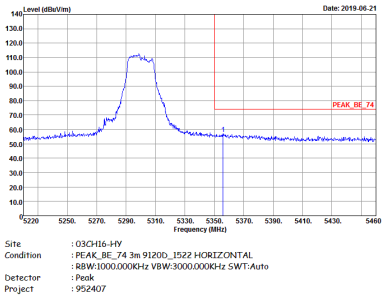
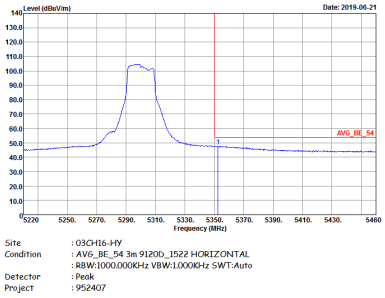
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

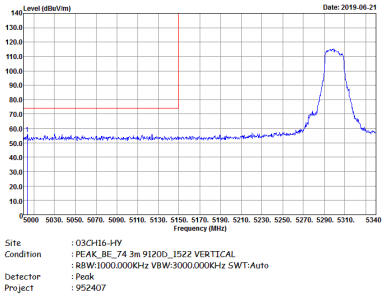
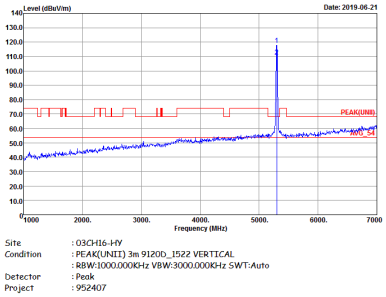
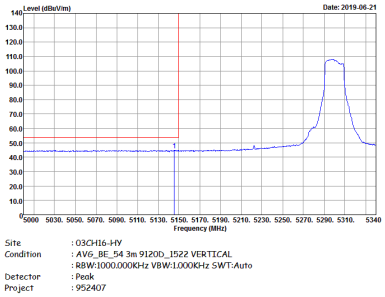
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

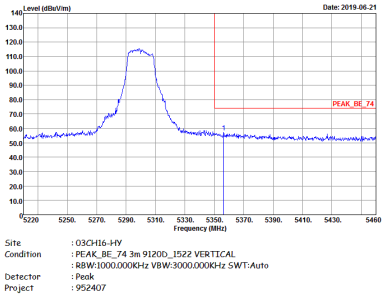
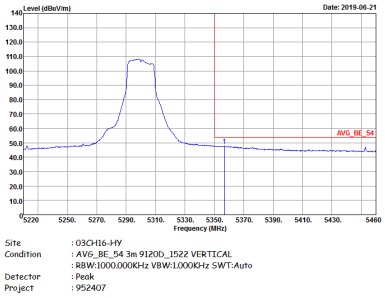
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

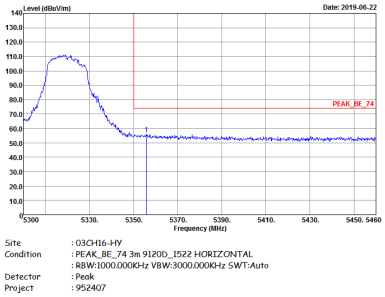
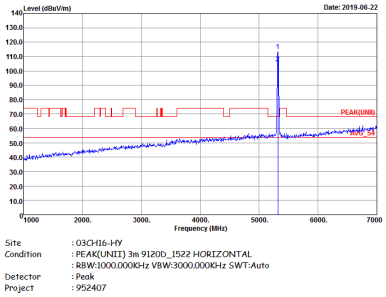
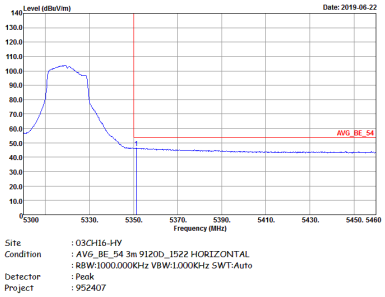
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

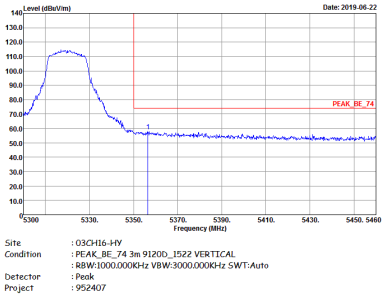
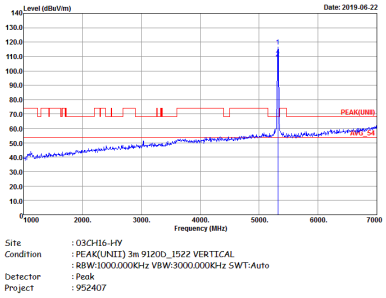
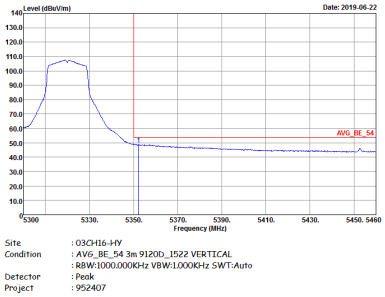
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

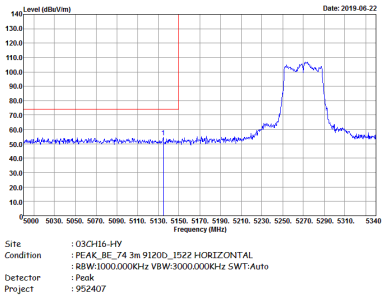
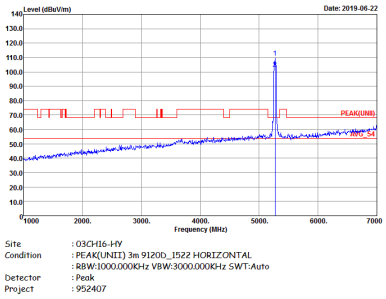
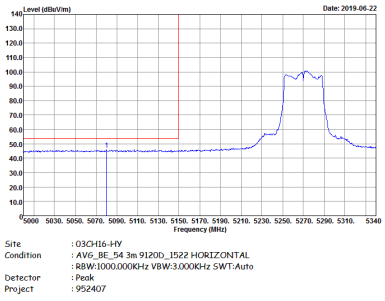
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

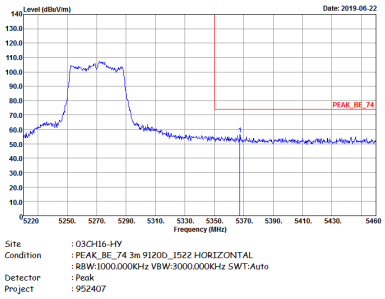
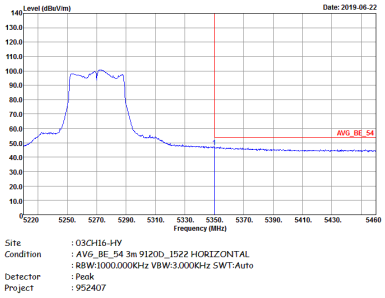
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

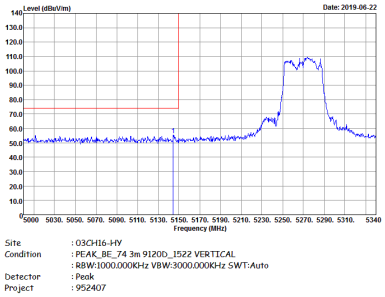
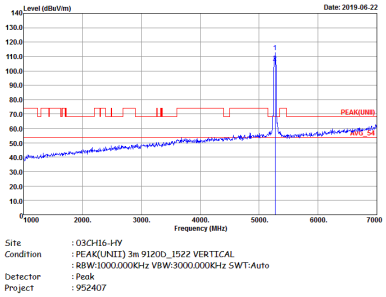
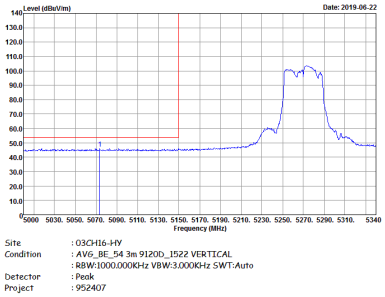
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

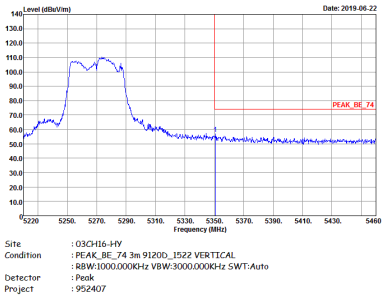
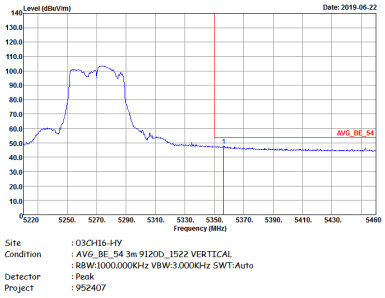
Band 2 5250~5350MHz

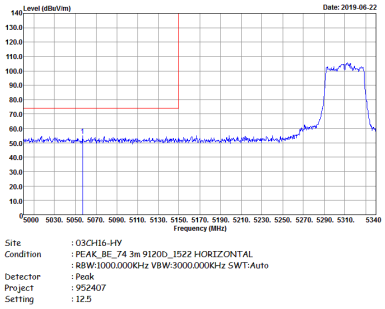
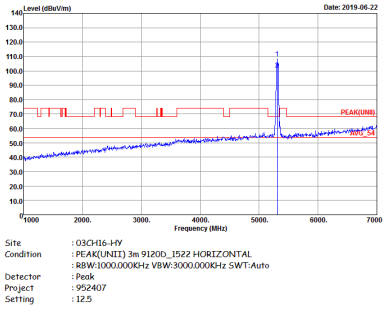
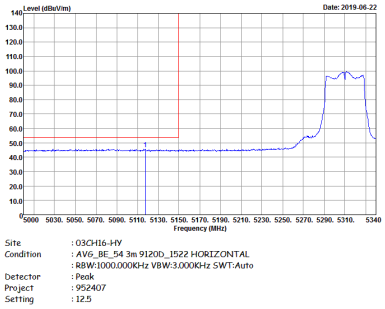
WIFI 802.11ac VHT40 (Band Edge @ 3m)

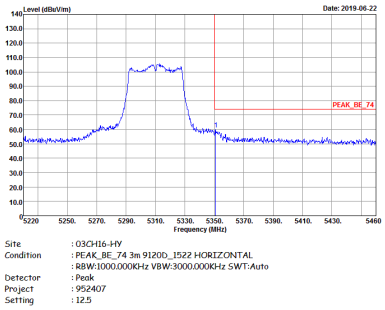
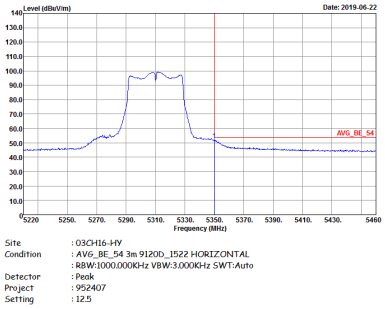
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

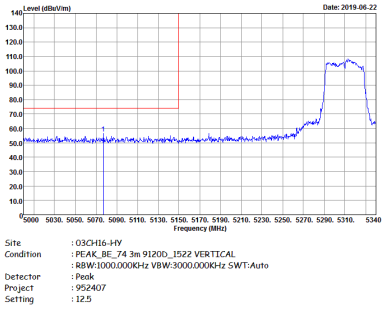
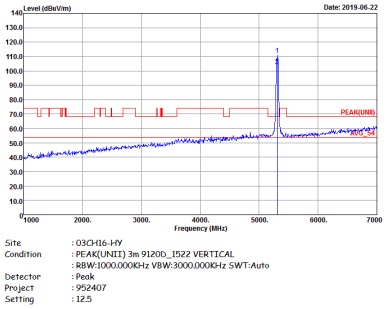
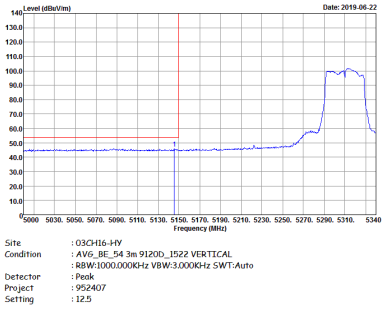
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

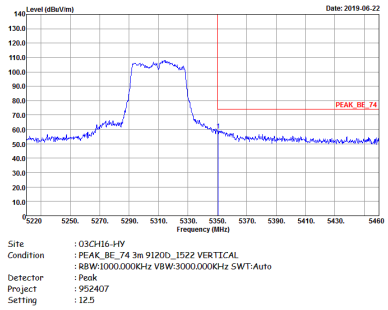
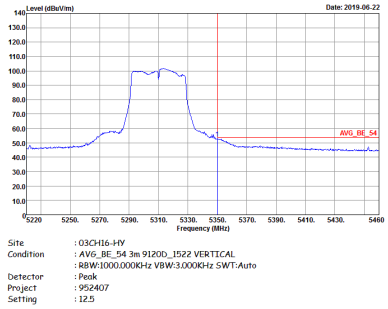
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

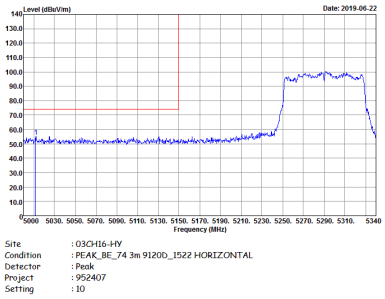
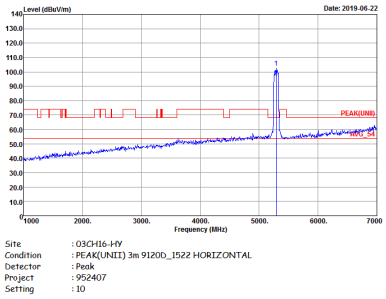
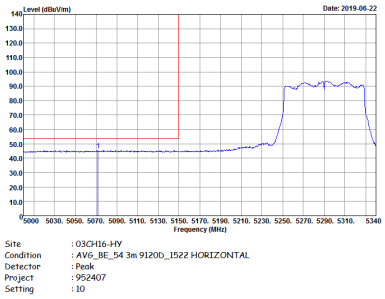
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

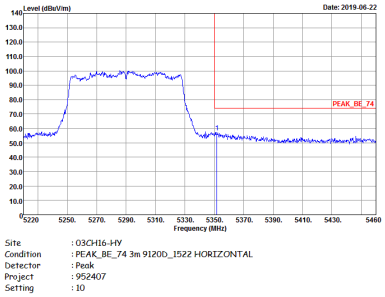
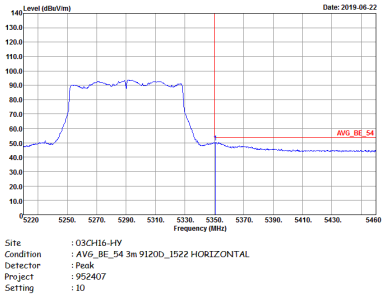
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

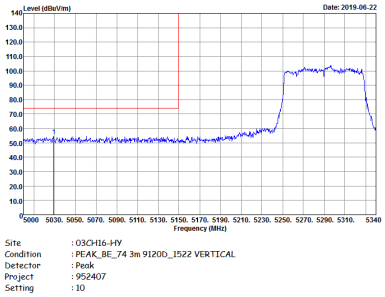
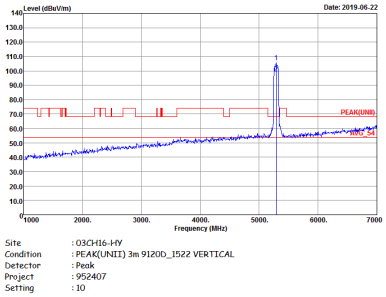
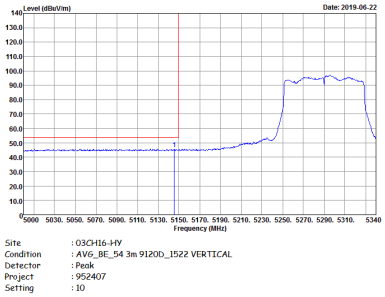
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

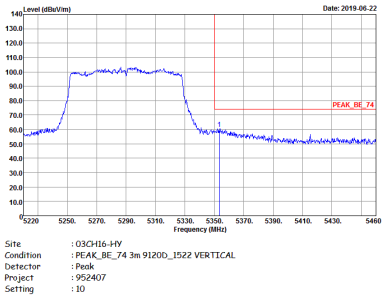
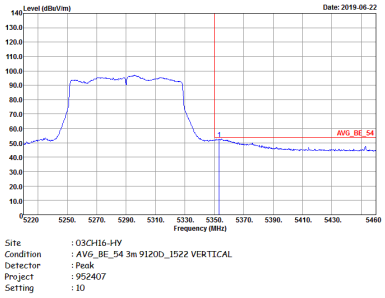
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

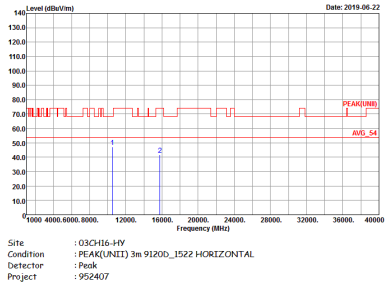
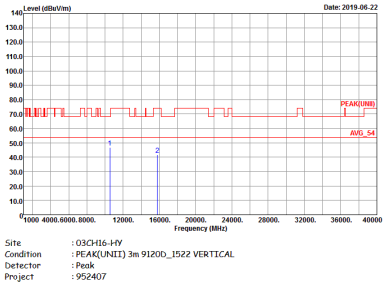
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

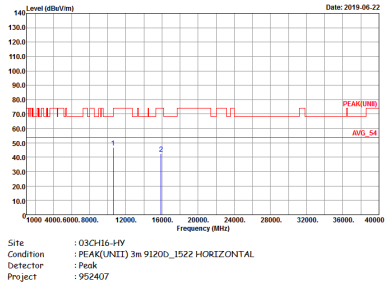
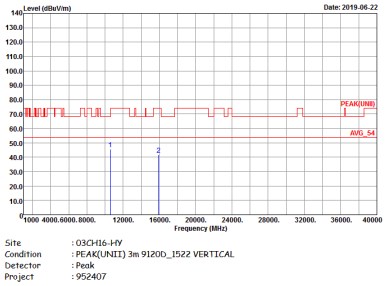
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

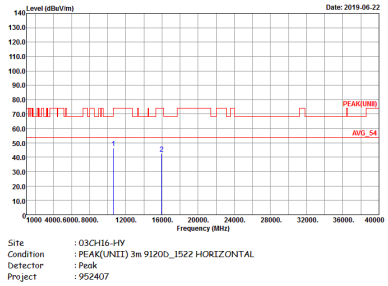
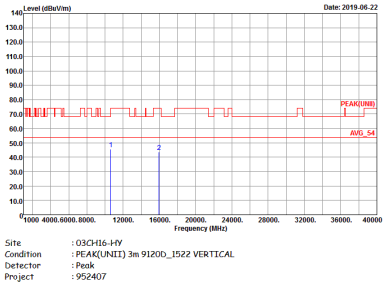
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

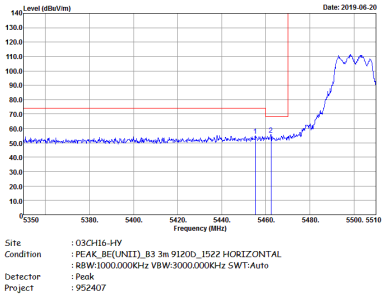
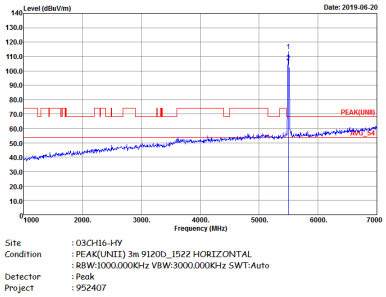
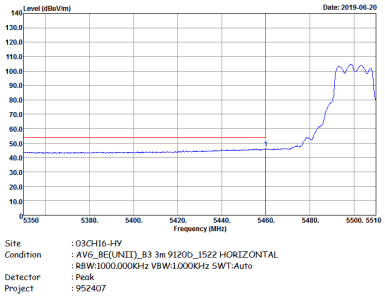
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

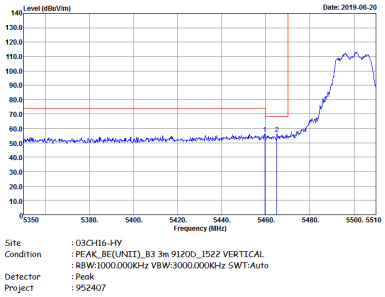
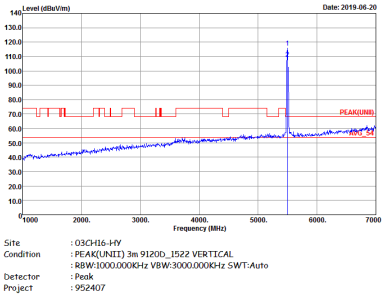
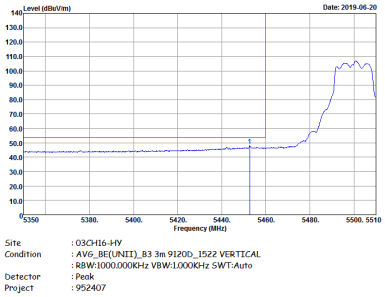
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

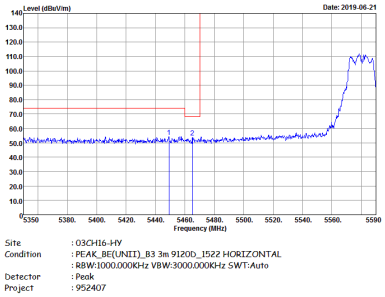
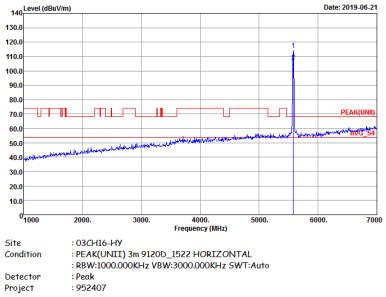
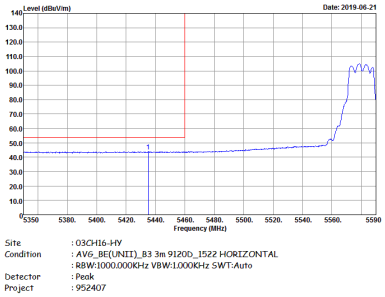
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

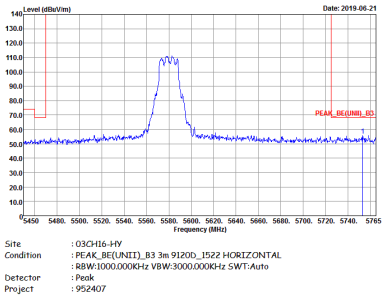
Band 3 - 5470~5725MHz

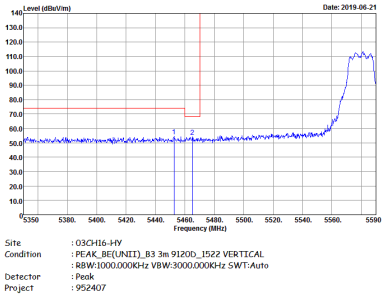
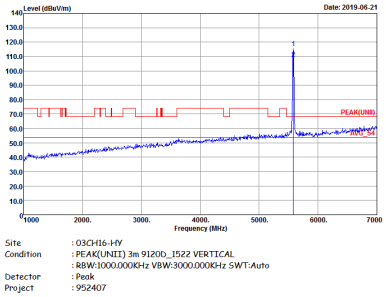
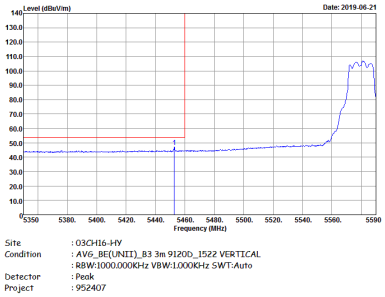
WIFI 802.11a (Band Edge @ 3m)

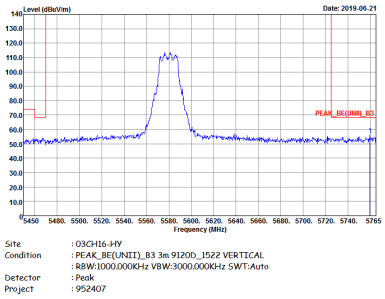
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

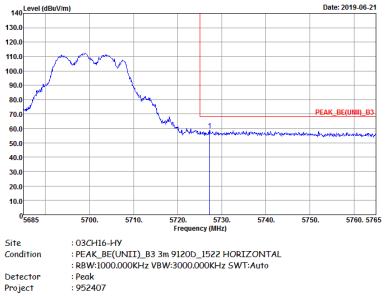
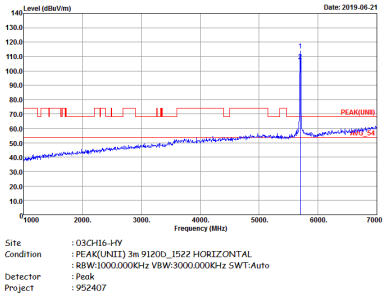
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

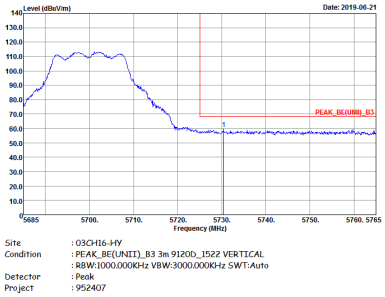
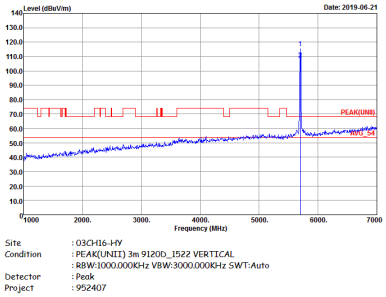
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

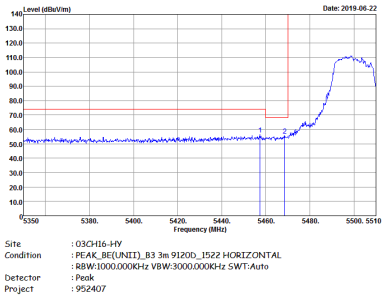
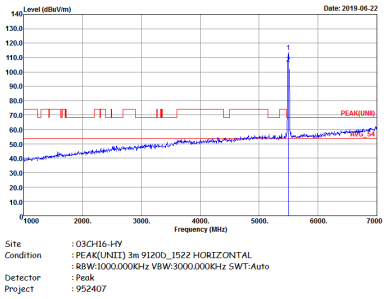
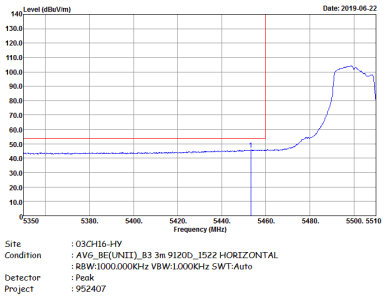
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

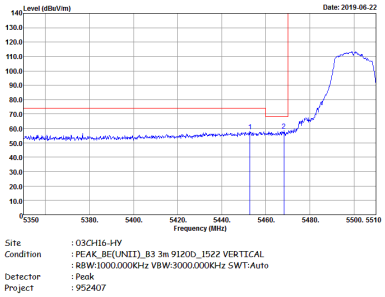
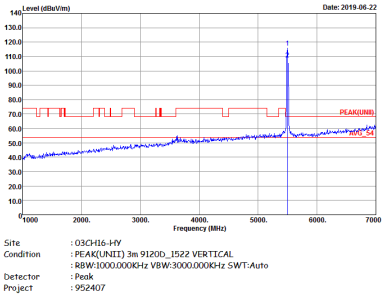
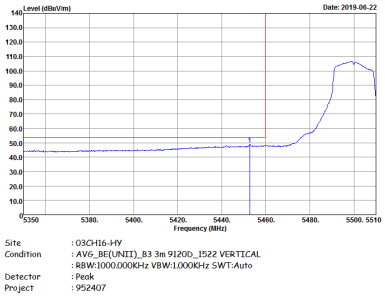
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

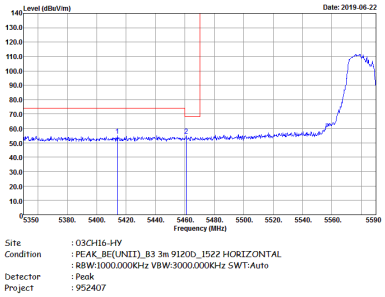
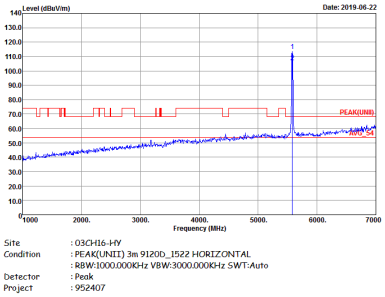
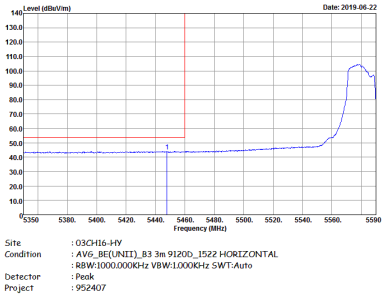
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

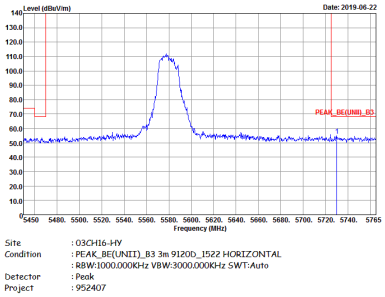
Band 3 5470~5725MHz

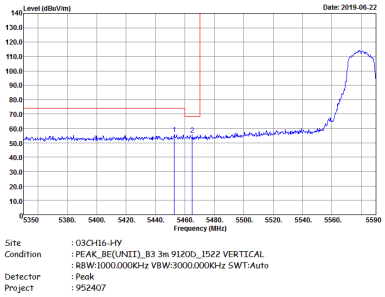
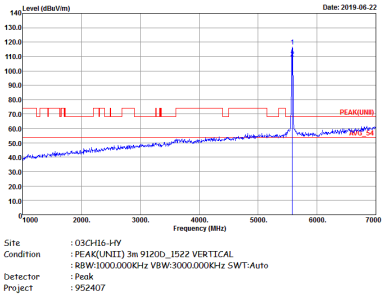
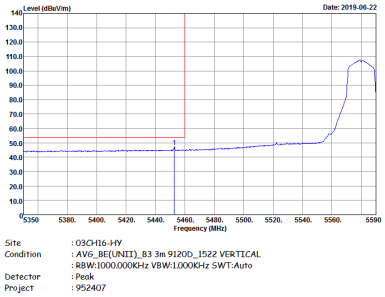
WIFI 802.11ac VHT20 (Band Edge @ 3m)

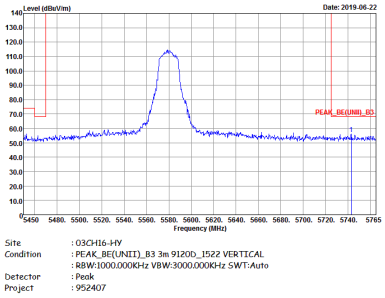
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

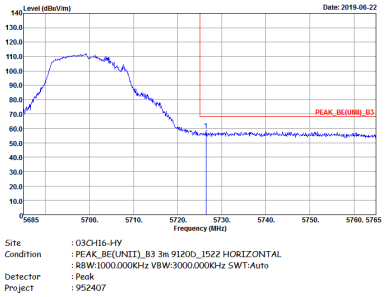
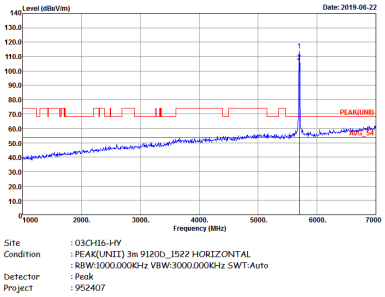
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

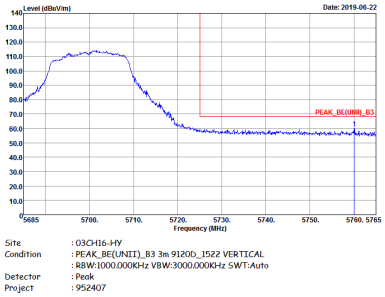
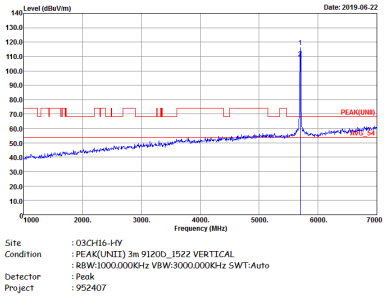
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

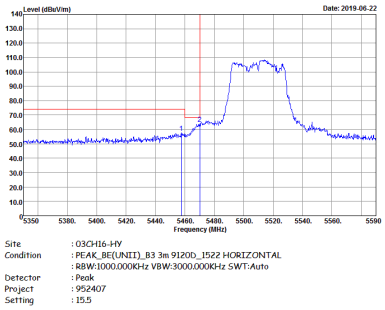
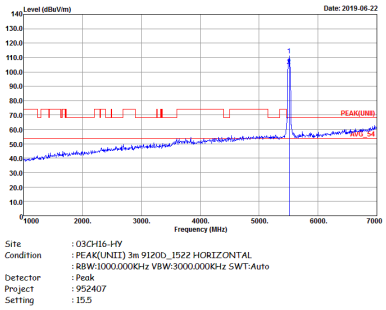
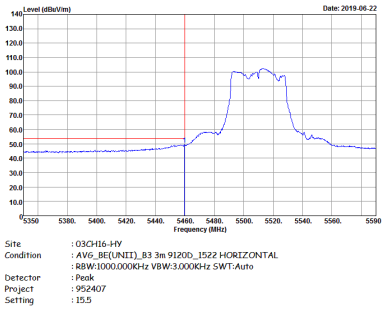
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

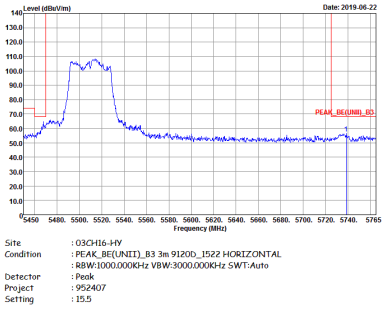
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

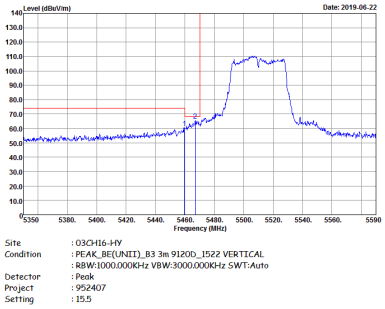
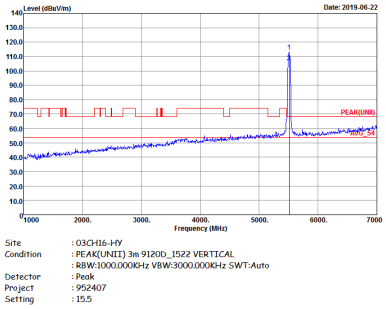
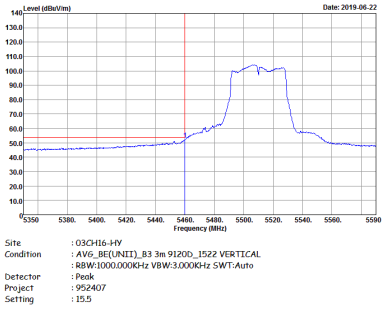
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

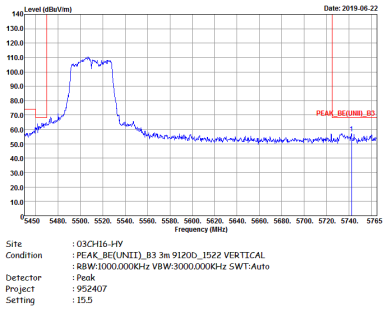
Band 3 5470~5725MHz

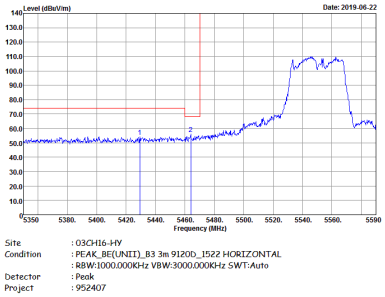
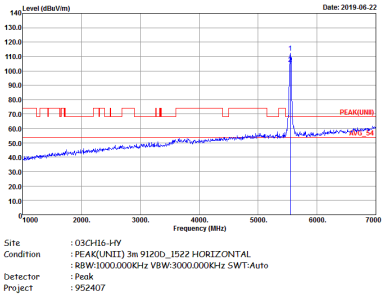
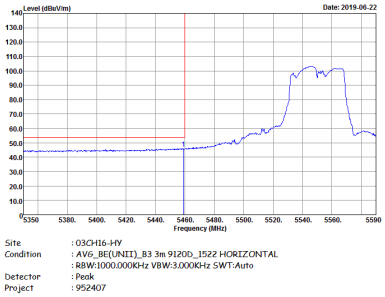
WIFI 802.11ac VHT40 (Band Edge @ 3m)

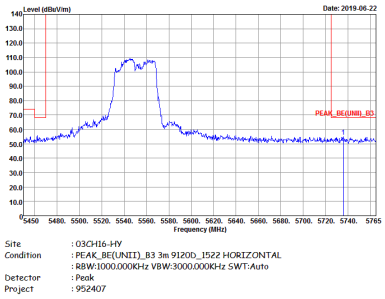
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

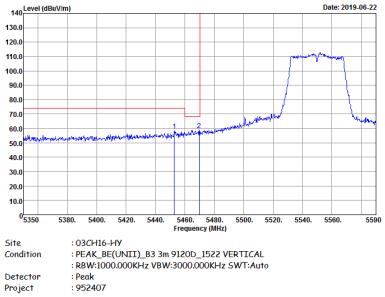
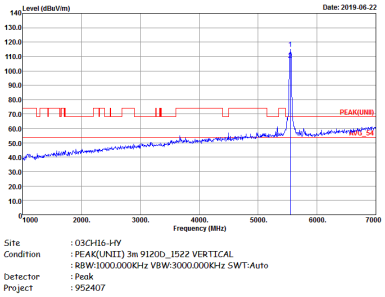
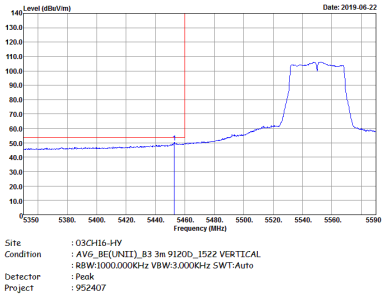
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

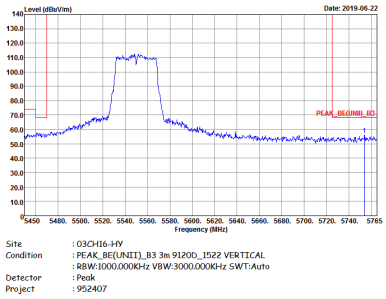
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

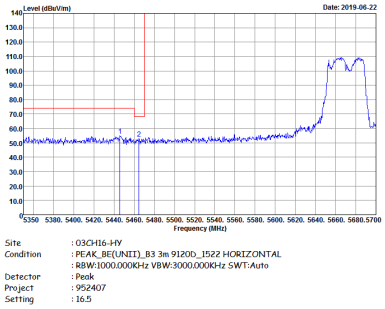
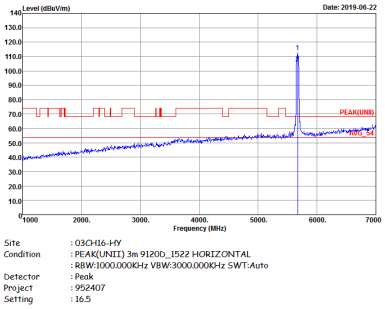
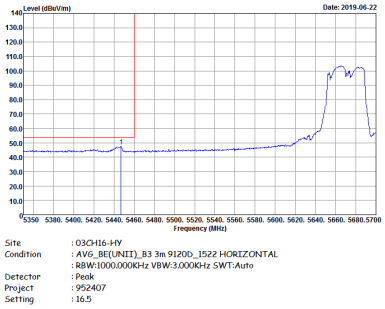
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

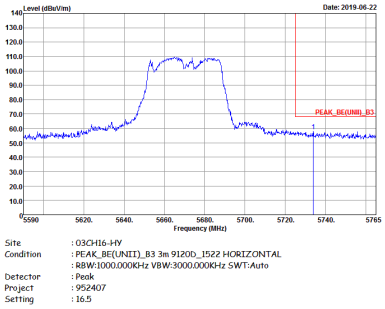
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

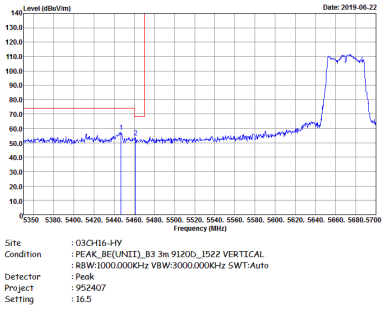
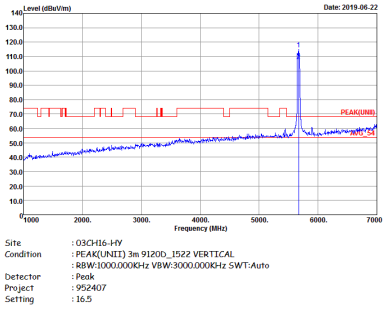
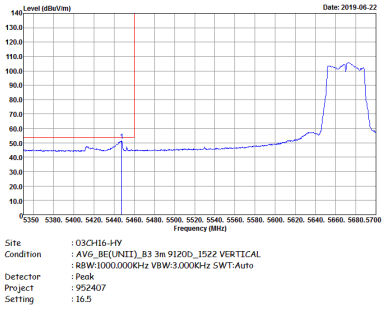
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

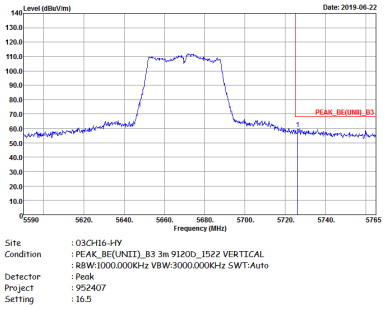
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

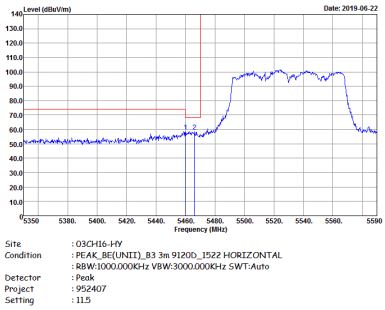
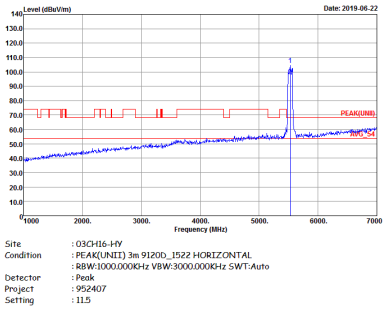
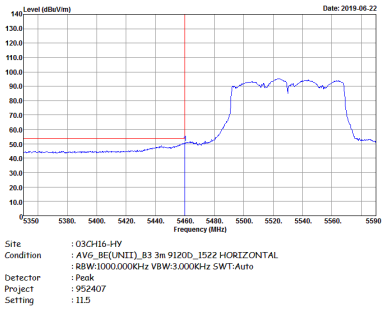
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

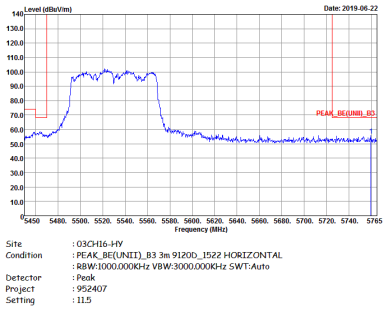
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

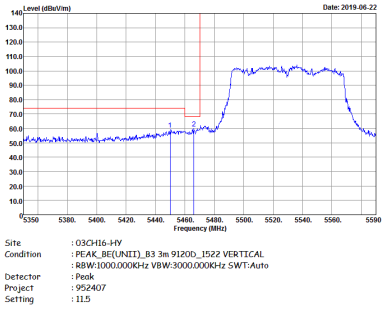
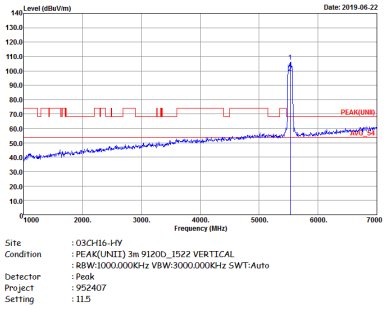
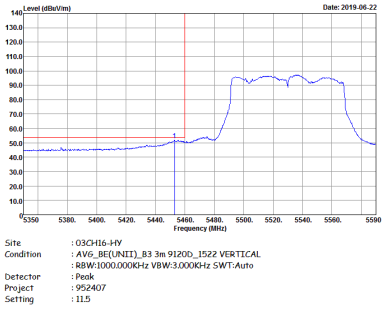
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

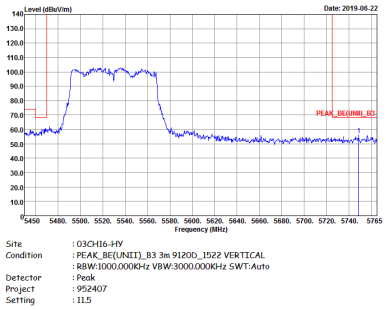
Band 3 5470~5725MHz

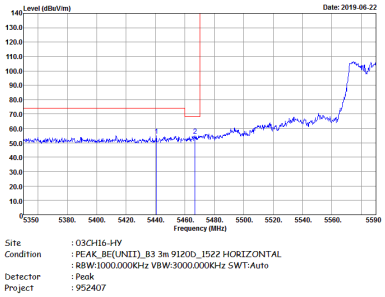
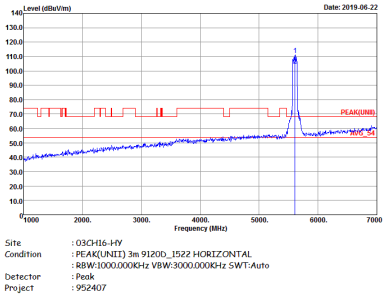
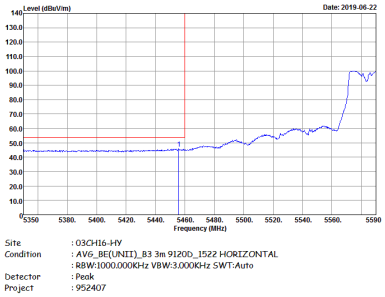
WIFI 802.11ac VHT80 (Band Edge @ 3m)

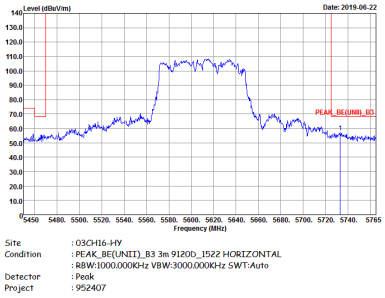
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

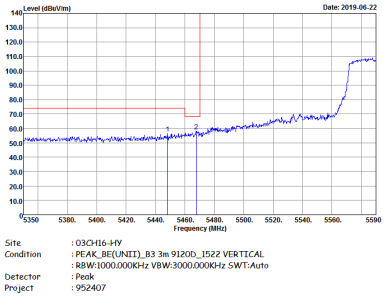
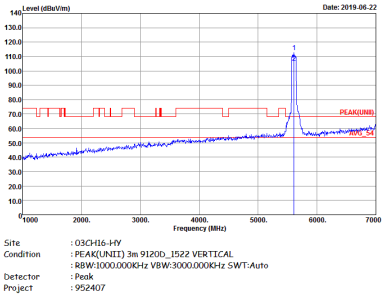
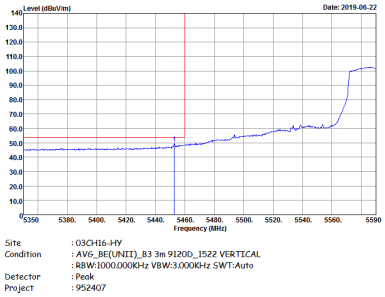
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

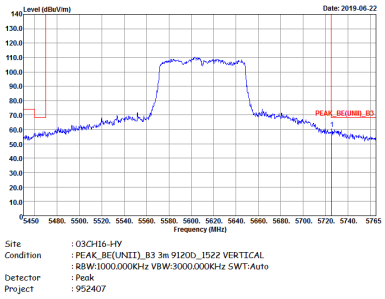
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

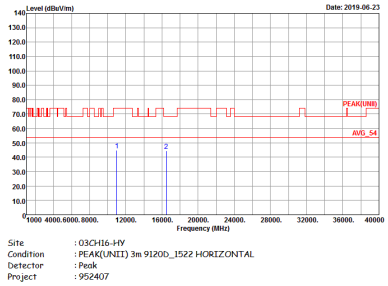
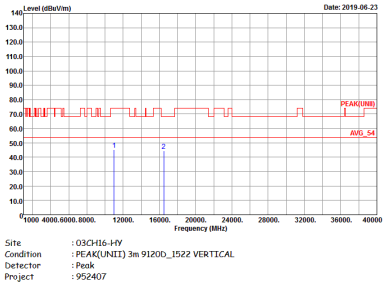
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

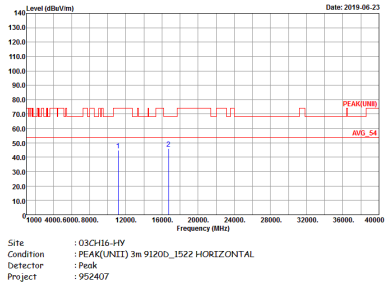
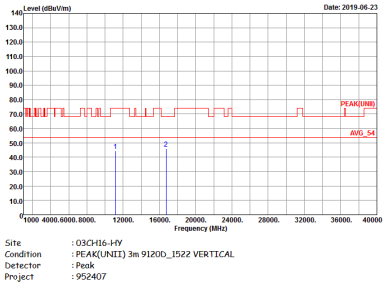
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

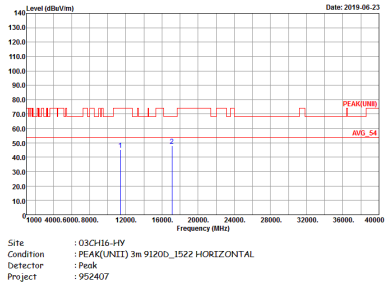
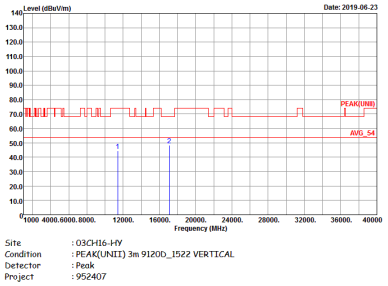
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

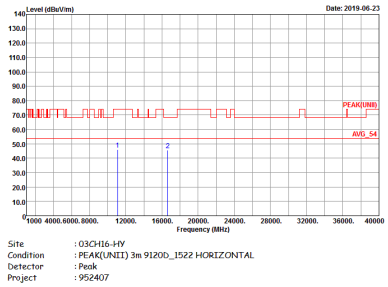
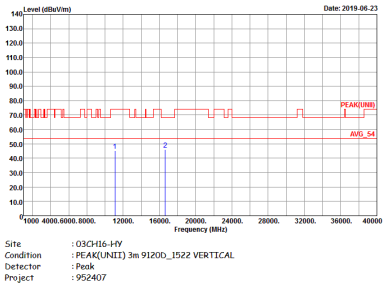
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

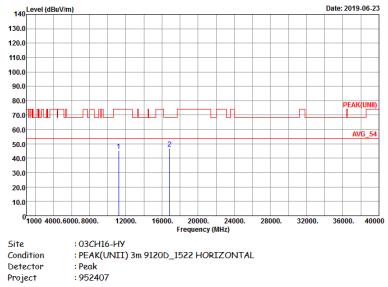
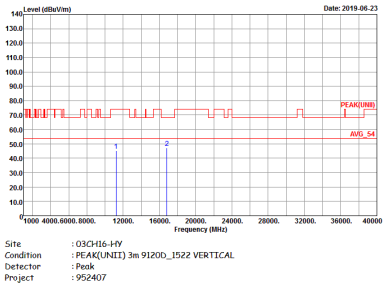
Band 3 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.		

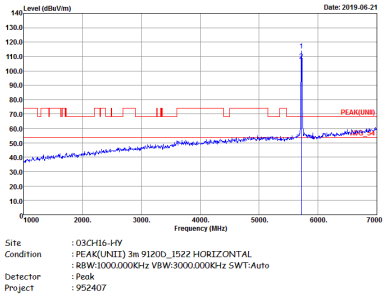
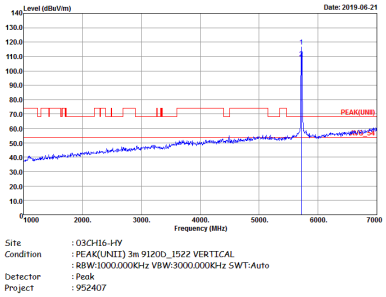
Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.		

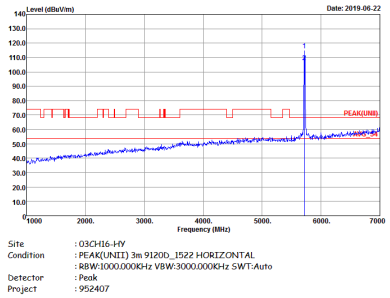
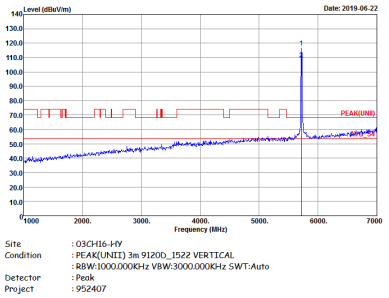
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

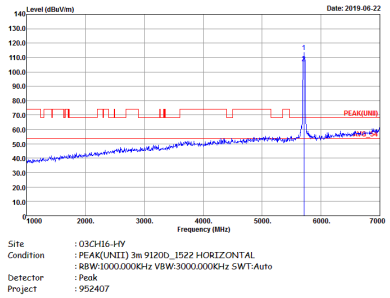
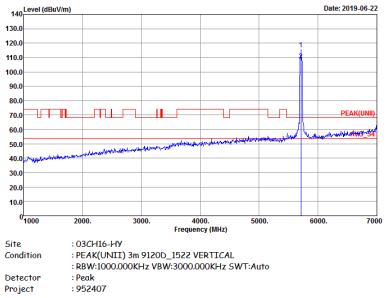
Band 3 – Straddle Channel

WIFI 802.11ac VHT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

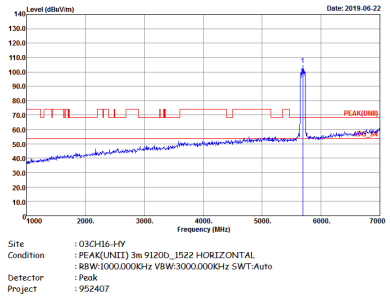
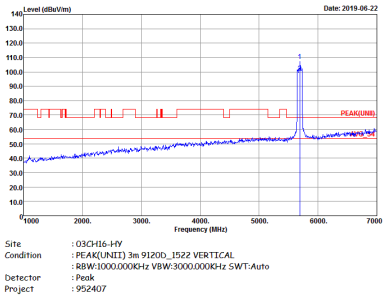
Band 3 – Straddle Channel

WIFI 802.11ac VHT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

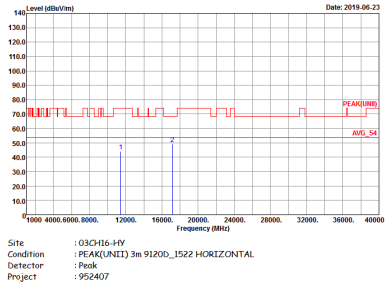
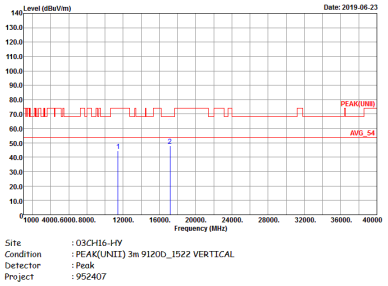
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

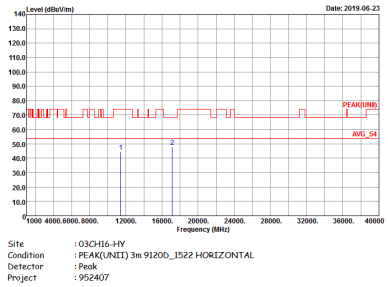
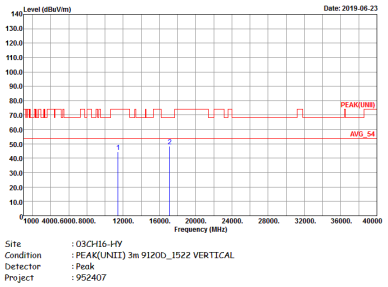
Band 3 - Straddle Channel

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

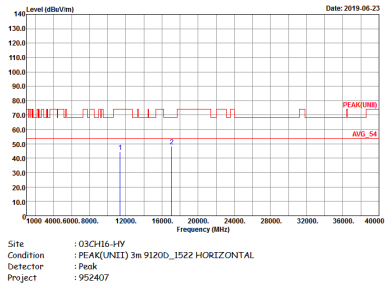
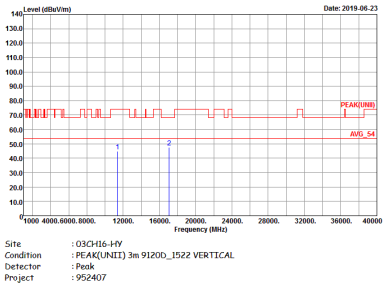
Band 3 – Straddle Channel

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

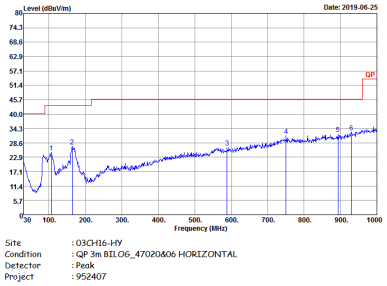
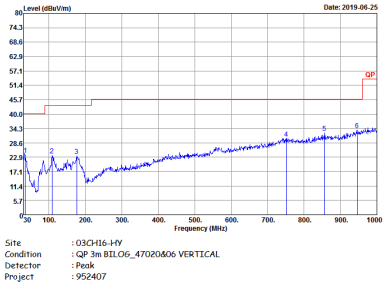
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ac VHT40 (LF)

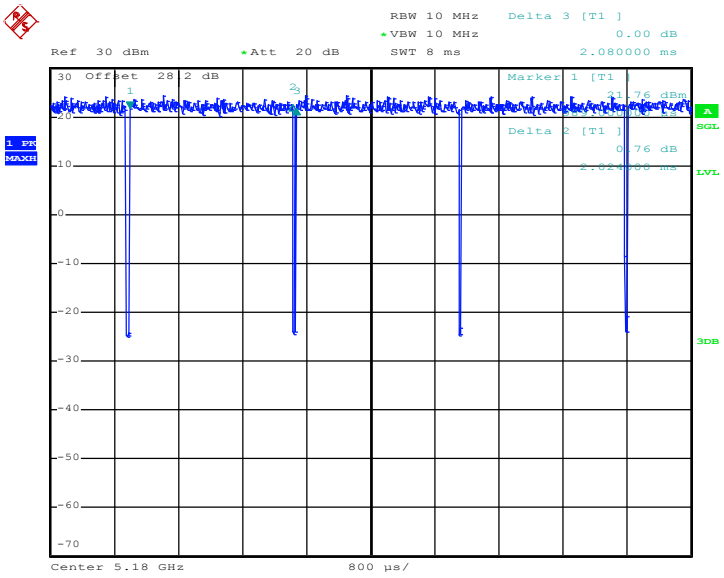
WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
1	802.11a	97.31	2024	0.49	1kHz	0.12
2	802.11a	97.31	2024	0.49	1kHz	0.12
1+2	802.11a for Ant. 1	97.55	2029	0.49	1kHz	0.11
1+2	802.11a for Ant. 2	97.31	2024	0.49	1kHz	0.12
1	802.11n HT20	97.52	1888	0.53	1kHz	0.11
2	802.11n HT20	97.11	1879	0.53	1kHz	0.13
1+2	802.11n HT20 for Ant. 1	97.52	1891	0.53	1kHz	0.11
1+2	802.11n HT20 for Ant. 2	97.82	1887	0.53	1kHz	0.10
1	802.11n HT40	95.88	930	1.08	3kHz	0.18
2	802.11n HT40	95.38	930	1.08	3kHz	0.21
1+2	802.11n HT40 for Ant. 1	94.90	930	1.08	3kHz	0.23
1+2	802.11n HT40 for Ant. 2	95.88	930	1.08	3kHz	0.18
1	802.11ac VHT20	97.41	1880	0.53	1kHz	0.11
2	802.11ac VHT20	97.42	1890	0.53	1kHz	0.11
1+2	802.11ac VHT20 for Ant. 1	96.91	1880	0.53	1kHz	0.14
1+2	802.11ac VHT20 for Ant. 2	97.14	1870	0.53	1kHz	0.13
1	802.11ac VHT40	95.90	935	1.07	3kHz	0.18
2	802.11ac VHT40	95.90	935	1.07	3kHz	0.18
1+2	802.11ac VHT40 for Ant. 1	95.92	940	1.06	3kHz	0.18
1+2	802.11ac VHT40 for Ant. 2	95.88	930	1.08	3kHz	0.18
1	802.11ac VHT80	92.06	452	2.21	3kHz	0.36
2	802.11ac VHT80	91.46	450	2.22	3kHz	0.39
1+2	802.11ac VHT80 for Ant. 1	92.71	458	2.18	3kHz	0.33
1+2	802.11ac VHT80 for Ant. 2	91.87	452	2.21	3kHz	0.37

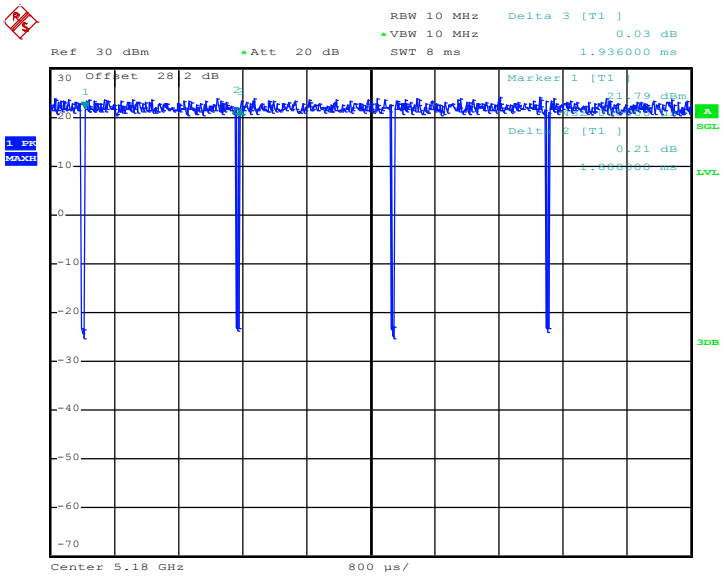
<Ant. 1>

802.11a



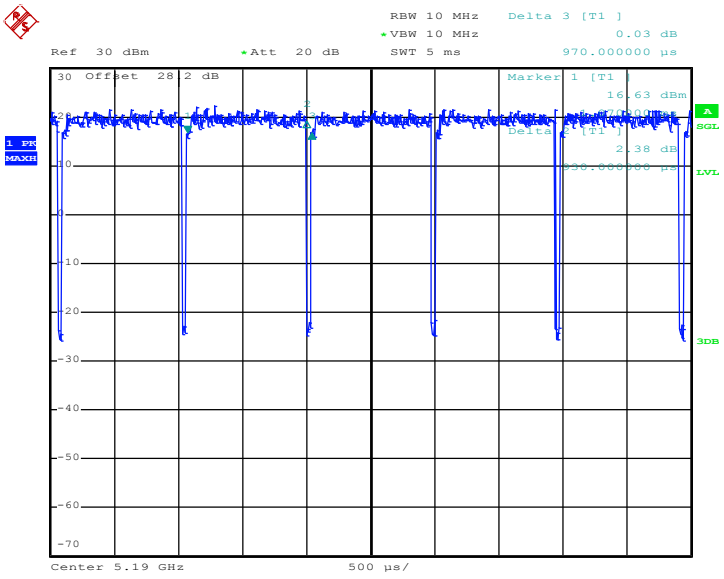
Date: 10.JUN.2019 03:14:47

802.11n HT20



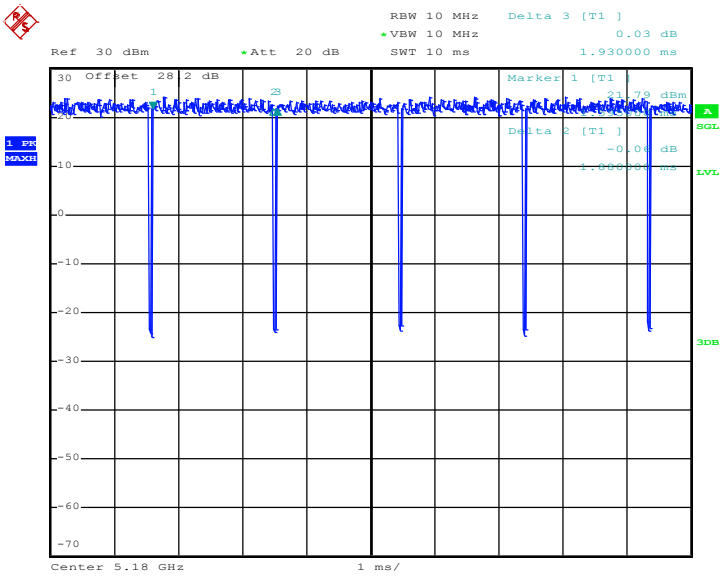
Date: 10.JUN.2019 05:08:27

802.11n HT40



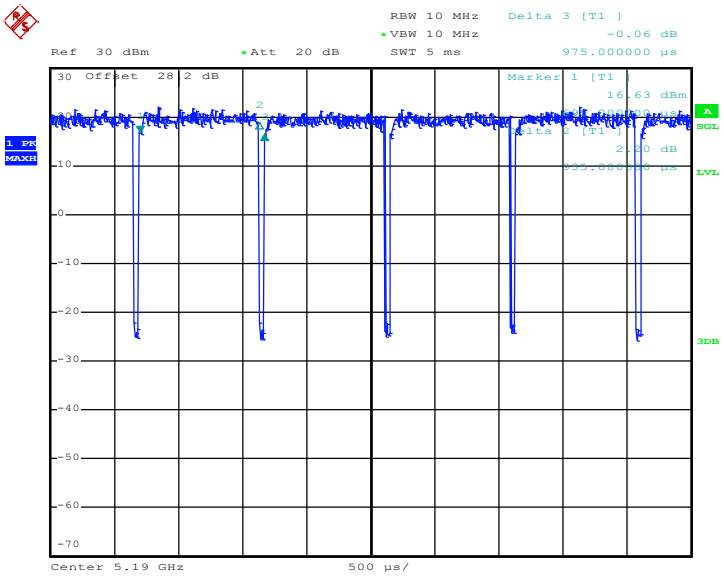
Date: 10.JUN.2019 05:17:30

802.11ac VHT20



Date: 10.JUN.2019 03:58:42

802.11ac VHT40



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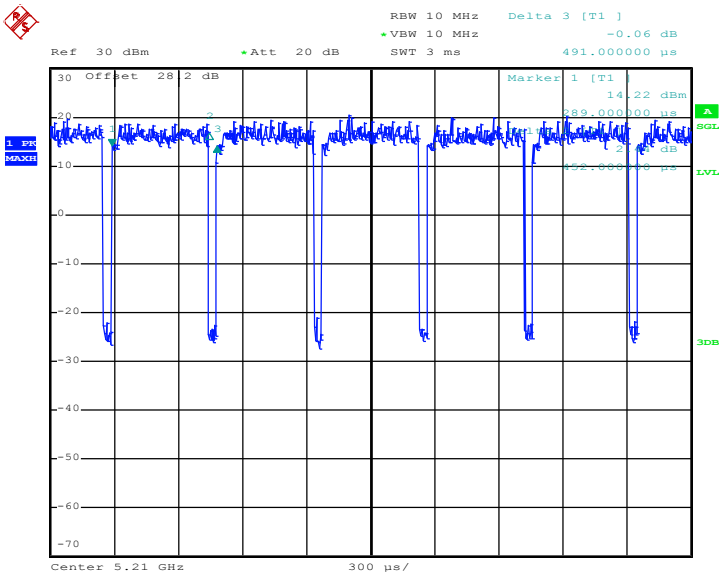
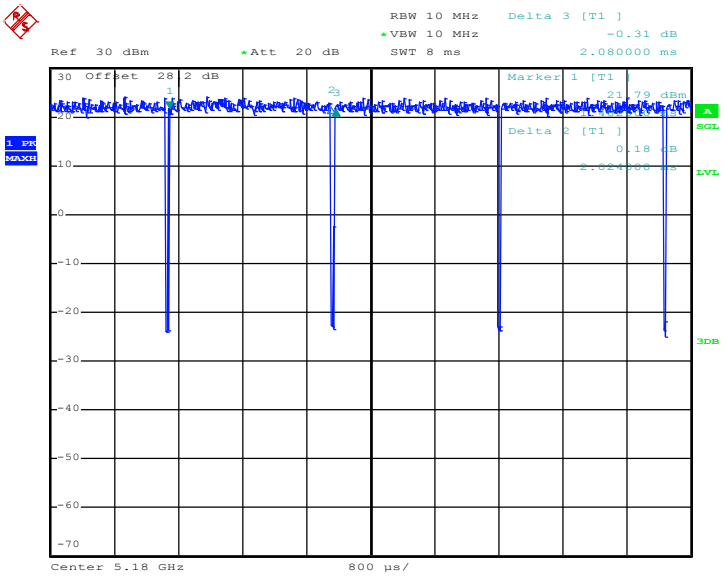
802.11ac VHT80



Date: 10.JUN.2019 05:27:59

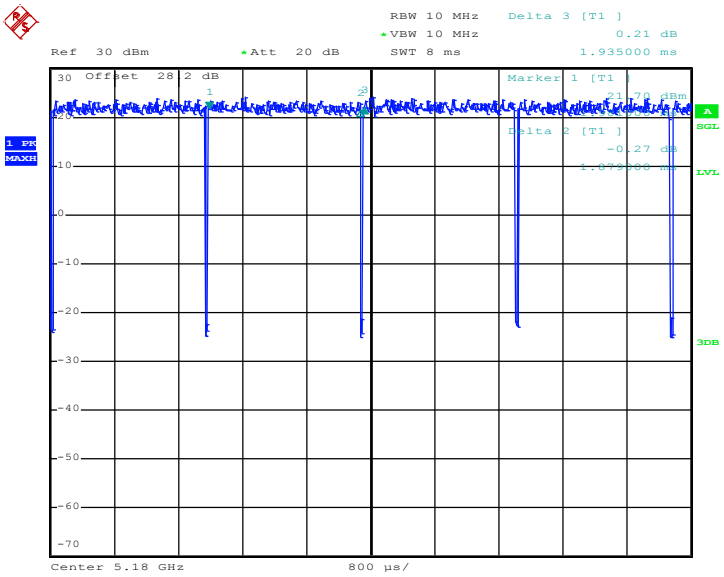
<Ant. 2>

802.11a



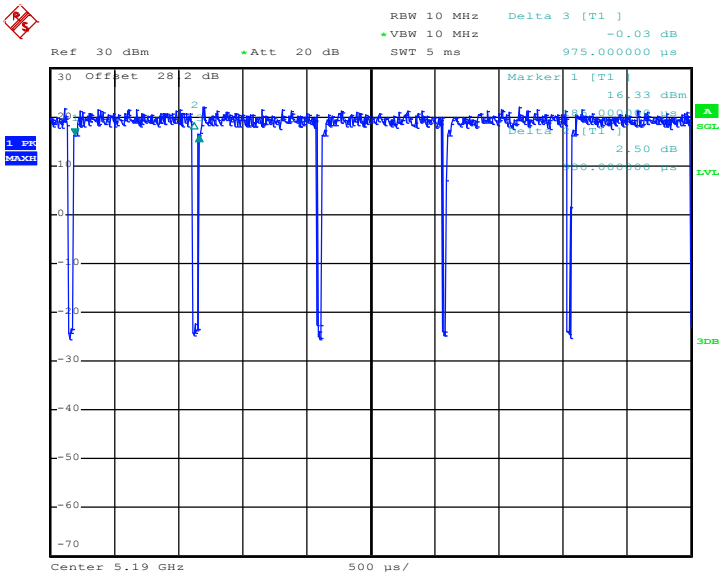
Date: 10.JUN.2019 03:17:03

802.11n HT20



Date: 10.JUN.2019 05:09:20

802.11n HT40



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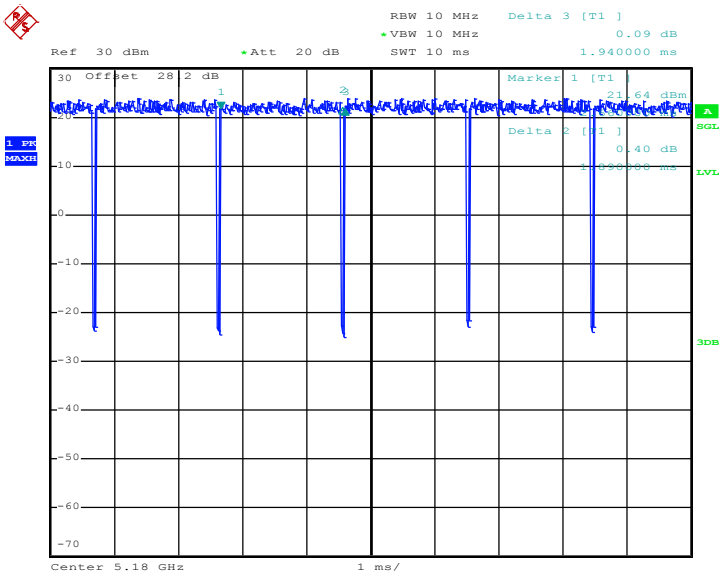
802.11ac VHT20



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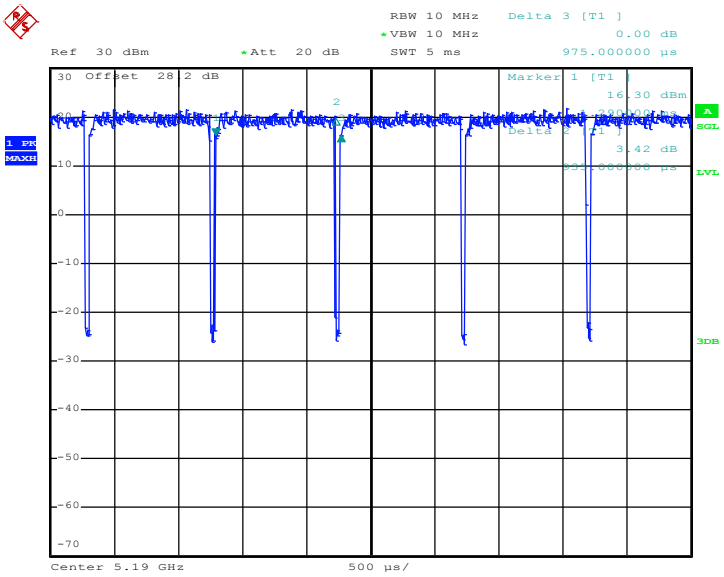
802.11ac VHT40



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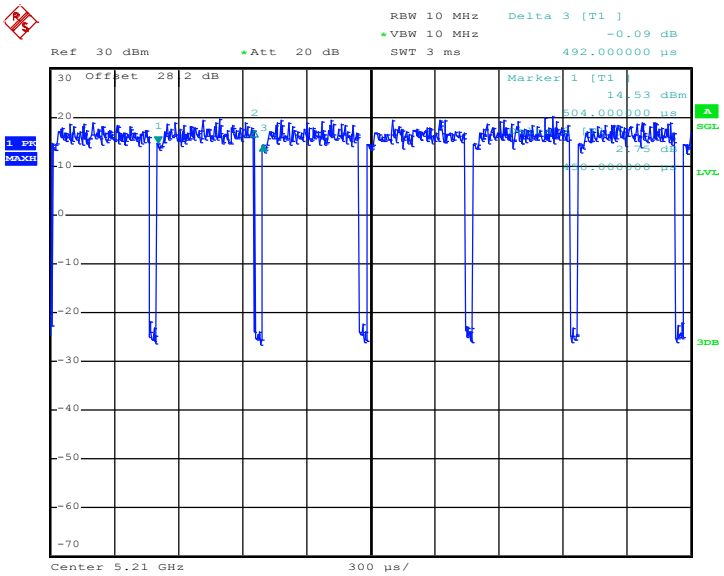
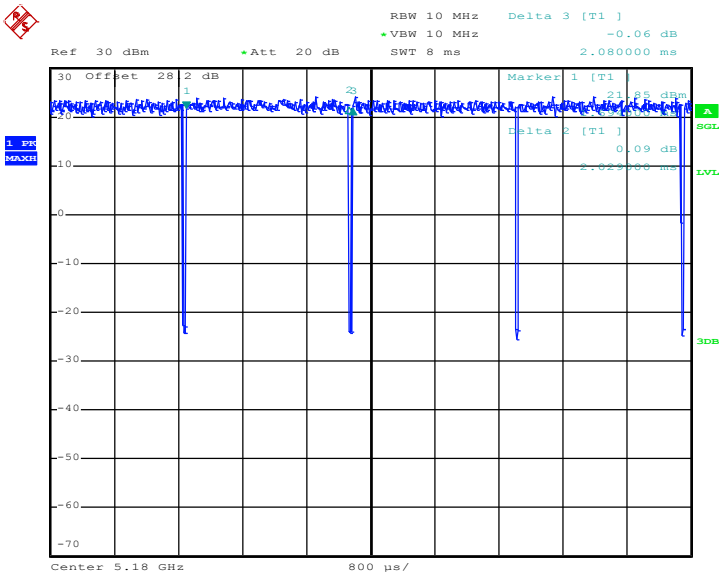
802.11ac VHT80



Date: 10.JUN.2019 05:29:04

MIMO <Ant. 1>

802.11a



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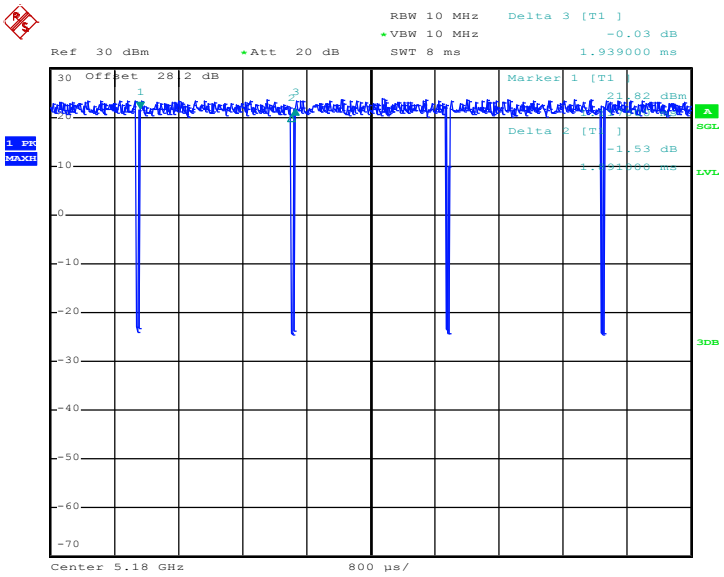

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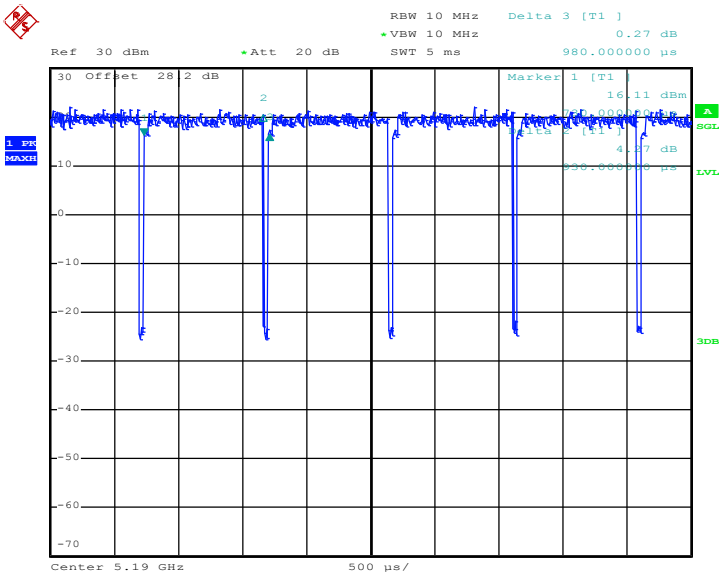

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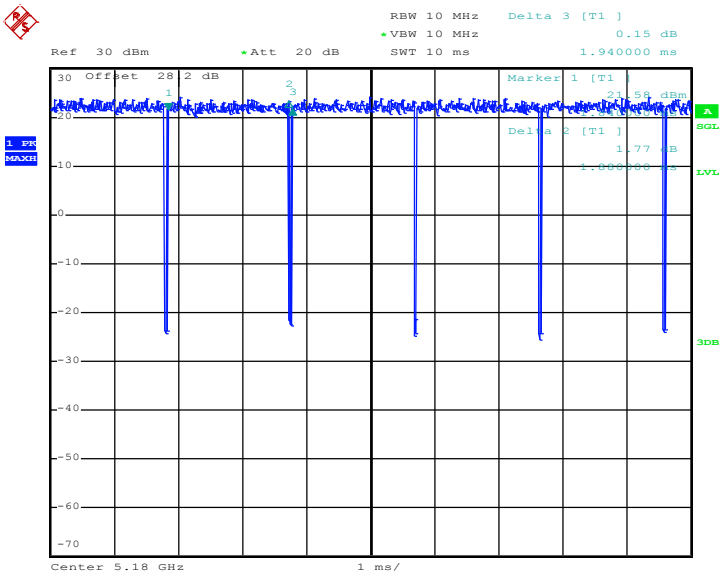

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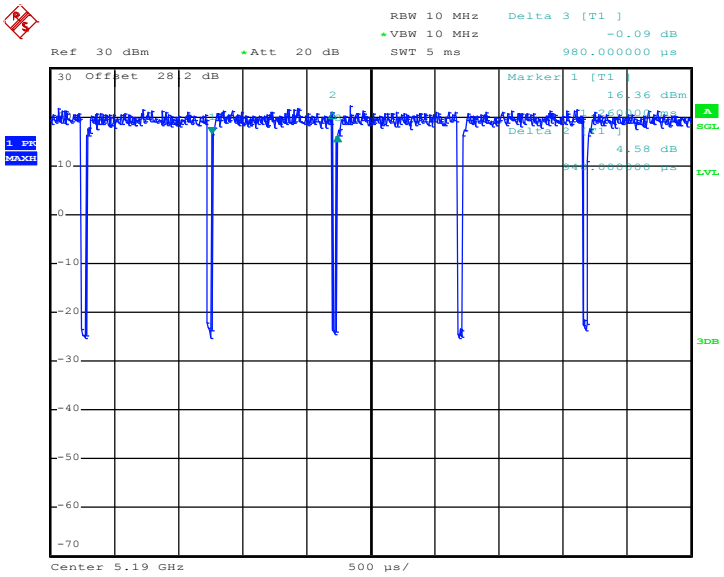

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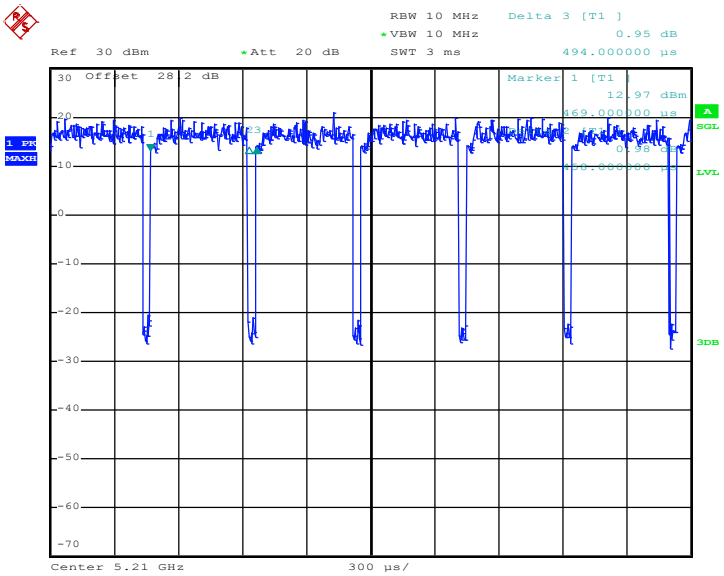

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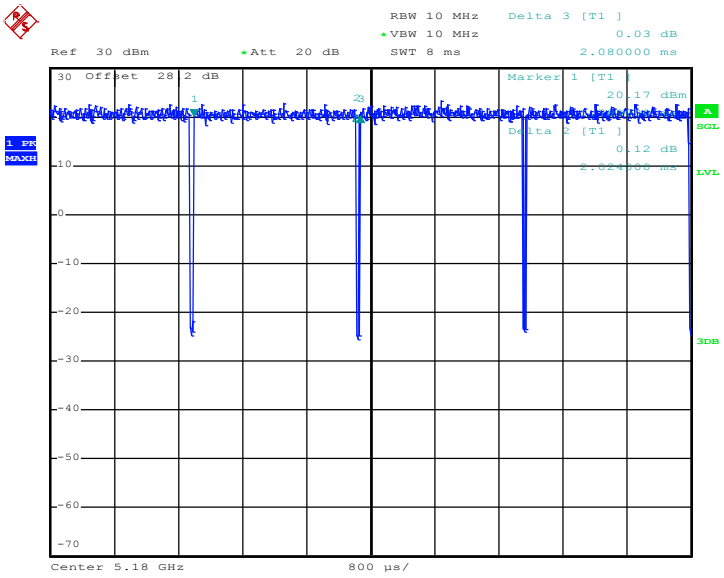

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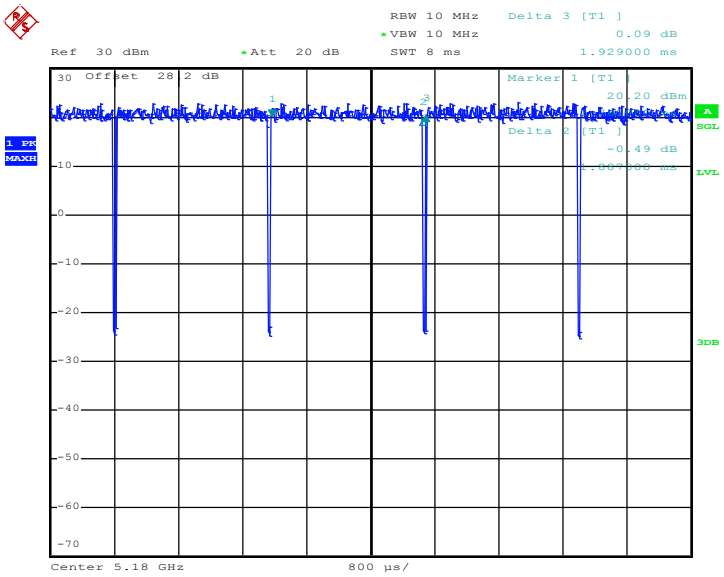

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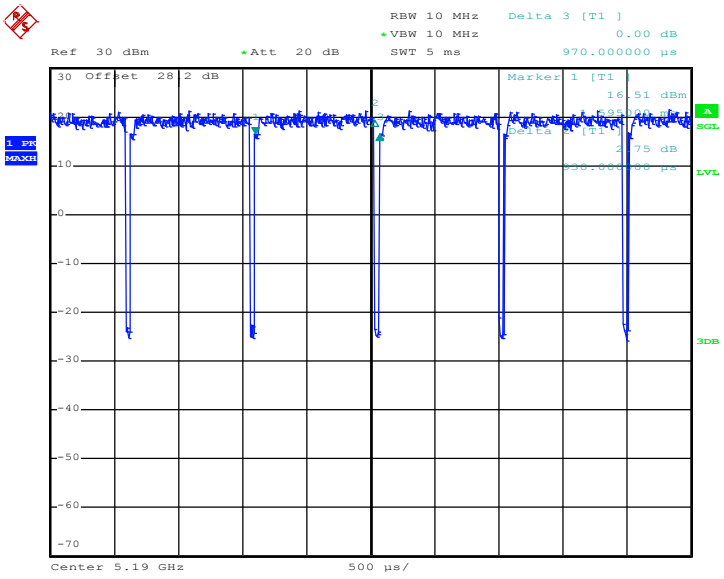

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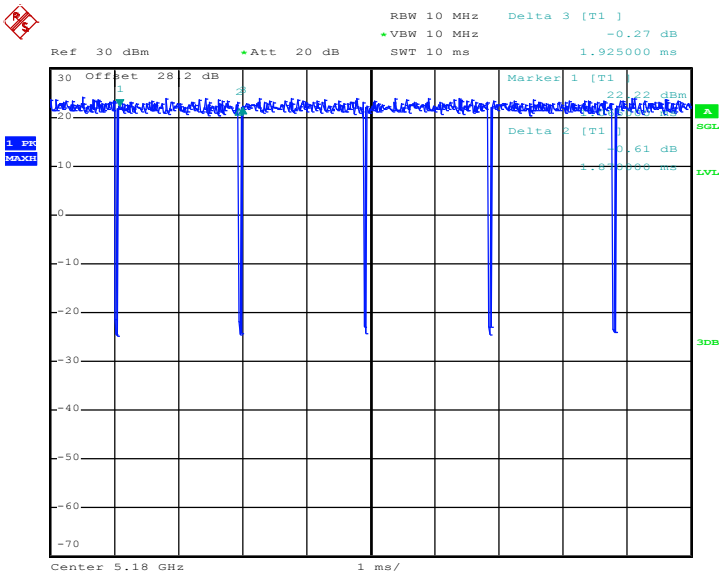

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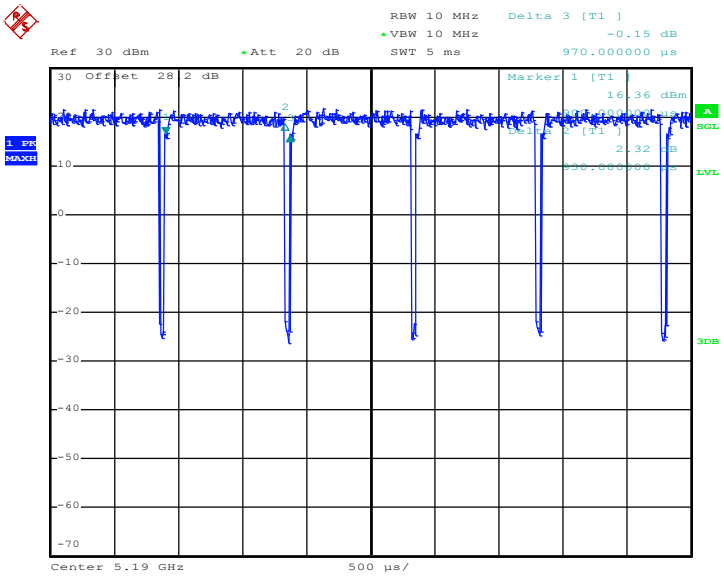

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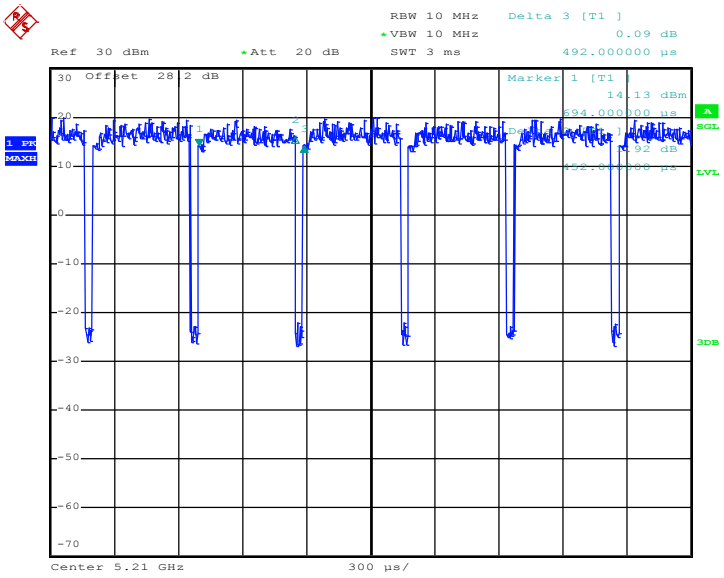

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