FCC RADIO TEST REPORT

FCC ID	**:**	**2AQIQ-6247**
Equipment	**:**	**HDMI Digital Media Receiver**
Model name	**:**	**E9L29Y**
Applicant	**:**	**MX Processing LLC 309 Fellowship Road East Gate Center, Suite 200 Mount Laurel, New Jersey 08054**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The test was completed on Jul. 26, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The 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.

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
FR832126-02E	01	Initial issue of report	Aug. 10, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass
3.1	2.1049	99% Occupied Bandwidth	Reporting only
3.2	15.407 (a)	Maximum Conducted Output Power	Pass
3.3	15.407 (a)	Power Spectral Density	Pass
3.4	15.407(b)	Unwanted Emissions	Pass
3.5	15.207	AC Conducted Emission	Pass
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass

Reviewed by: Joseph Lin

Report Producer: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	HDMI Digital Media Receiver
Model Name	E9L29Y
FCC ID	2AQIQ-6247
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power <CDD Modes>	**<5745 MHz ~ 5825 MHz>** **<Ant. 1>** 802.11a : 19.57 dBm / 0.0906 W 802.11n HT20 : 19.07 dBm / 0.0807 W 802.11n HT40 : 18.54 dBm / 0.0714 W 802.11ac VHT20: 19.05 dBm / 0.0804 W 802.11ac VHT40: 18.52 dBm / 0.0711 W 802.11ac VHT80: 18.16 dBm / 0.0655 W **<Ant. 2>** 802.11a : 19.78 dBm / 0.0951 W 802.11n HT20 : 19.45 dBm / 0.0881 W 802.11n HT40 : 18.70 dBm / 0.0741 W 802.11ac VHT20: 19.22 dBm / 0.0836 W 802.11ac VHT40: 18.58 dBm / 0.0721 W 802.11ac VHT80: 18.34 dBm / 0.0682 W **MIMO <Ant. 1 + 2>** 802.11a : 22.77 dBm / 0.1892 W 802.11n HT20 : 22.31 dBm / 0.1702 W 802.11n HT40 : 21.71 dBm / 0.1483 W 802.11ac VHT20: 22.28 dBm / 0.1690 W 802.11ac VHT40: 21.69 dBm / 0.1476 W 802.11ac VHT80: 20.55 dBm / 0.1135 W
Maximum Output Power <TXBF Modes>	**<5745 MHz ~ 5825 MHz>** **MIMO <Ant. 1 + 2>** 802.11ac VHT20: 22.40 dBm / 0.1738 W 802.11ac VHT40: 21.77 dBm / 0.1503 W 802.11ac VHT80: 20.49 dBm / 0.1119 W

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>99% Occupied Bandwidth
<CDD Modes></td><td><Ant. 1>
802.11a : 18.85 MHz
802.11n HT20 : 19.00 MHz
802.11n HT40 : 37.30 MHz
802.11ac VHT80 : 77.40 MHz
<Ant. 2>
802.11a : 17.15 MHz
802.11n HT20 : 18.10 MHz
802.11n HT40 : 36.80 MHz
802.11ac VHT80 : 77.40 MHz
MIMO <Ant. 1>
802.11a : 19.00 MHz
802.11n HT20 : 20.25 MHz
802.11n HT40 : 37.00 MHz
802.11ac VHT80 : 77.04 MHz
MIMO <Ant. 2>
802.11a : 17.75 MHz
802.11n HT20 : 18.40 MHz
802.11n HT40 : 37.10 MHz
802.11ac VHT80 : 77.28 MHz</td></tr>
<tr><td>99% Occupied Bandwidth
<TXBF Modes></td><td>MIMO <Ant. 1>
802.11ac VHT20 : 22.35 MHz
802.11ac VHT40 : 37.90 MHz
802.11ac VHT80 : 77.28 MHz
MIMO <Ant. 2>
802.11ac VHT20 : 19.30 MHz
802.11ac VHT40 : 37.30 MHz
802.11ac VHT80 : 77.16 MHz</td></tr>
<tr><td>Type of Modulation</td><td>802.11a : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Type / Gain</td><td><Ant. 1> : Fixed Internal Antenna with gain 1.15 dBi
<Ant. 2> : Fixed Internal Antenna with gain 5.30 dBi</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><th></th><th>Ant. 1</th><th>Ant. 2</th></tr>
<tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr>
<tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ac TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

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

1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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

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

Test Site	SPORTON INTERNATIONAL INC.
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.**
	03CH12-HY

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

1.5 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

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

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

MIMO Mode

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

TXBF Mode

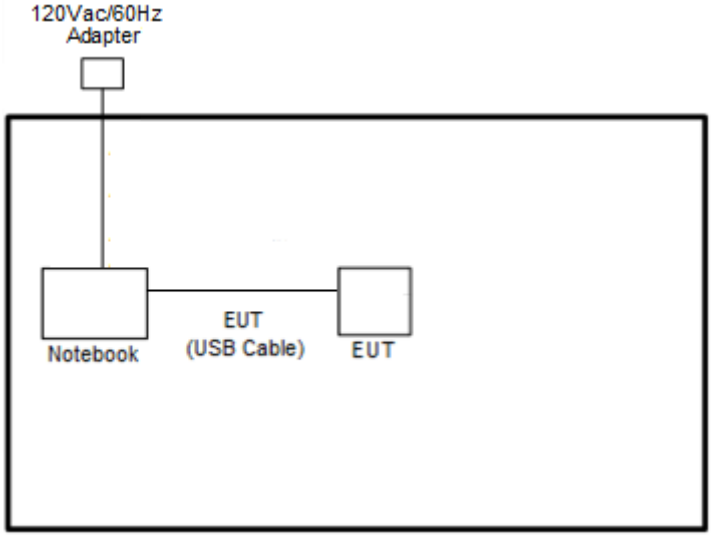
Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + 1080p 12 bit + TV: Sharp LC-50UA6800T + TV Resolution: 1080p + USB Cable (Charging from Adapter) + HDMI Extender Cable
Remark: HDMI Extender Cable means media application transferred mode between EUT and external display.	

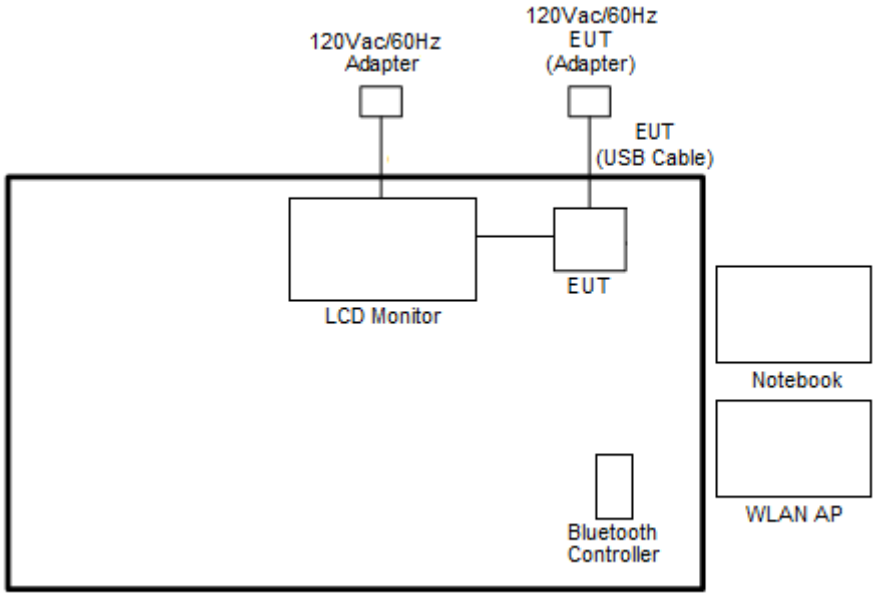
Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 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.	LCD Monitor	Sharp	LC-50UA6800T	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

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

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

26dB and 99% Occupied bandwidth are reporting only.

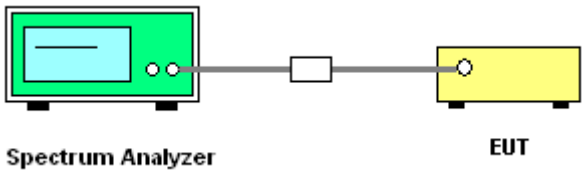
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

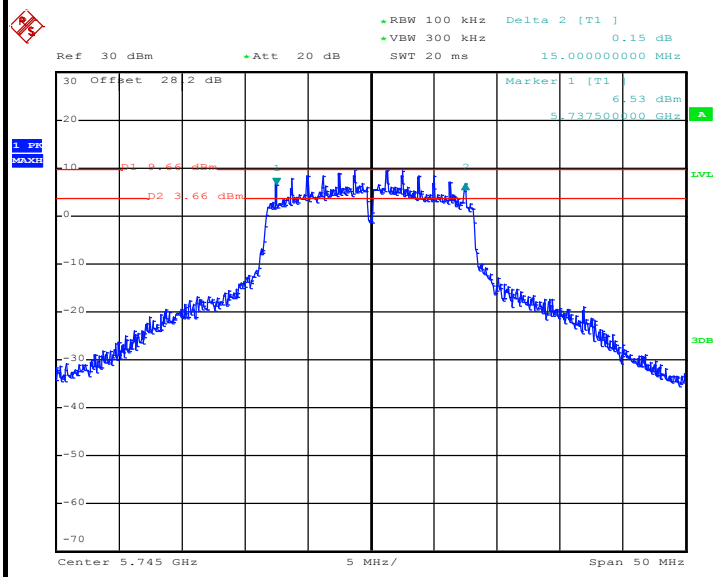


3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

<CDD Mode>

Minimum 6dB Bandwidth



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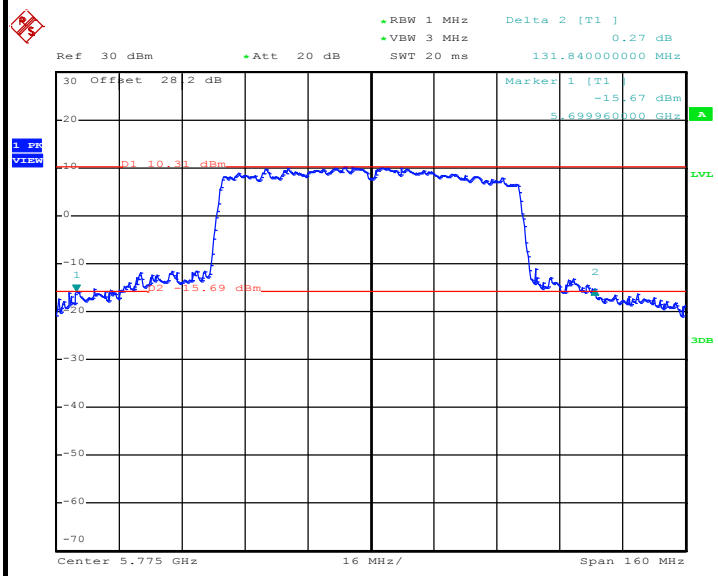
Maximum 26dB Bandwidth



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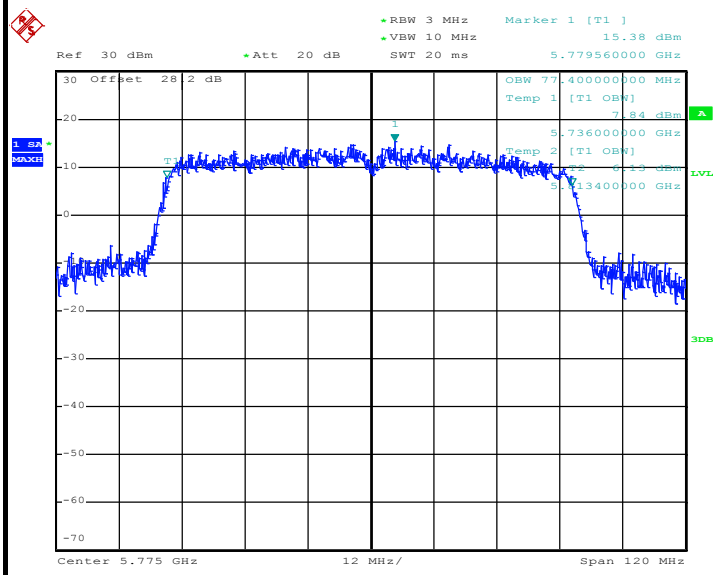
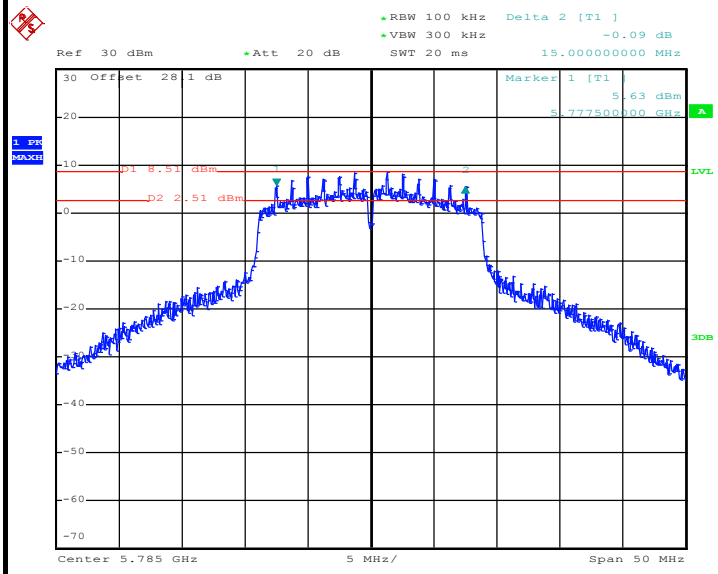
Maximum 99% Occupied Bandwidth



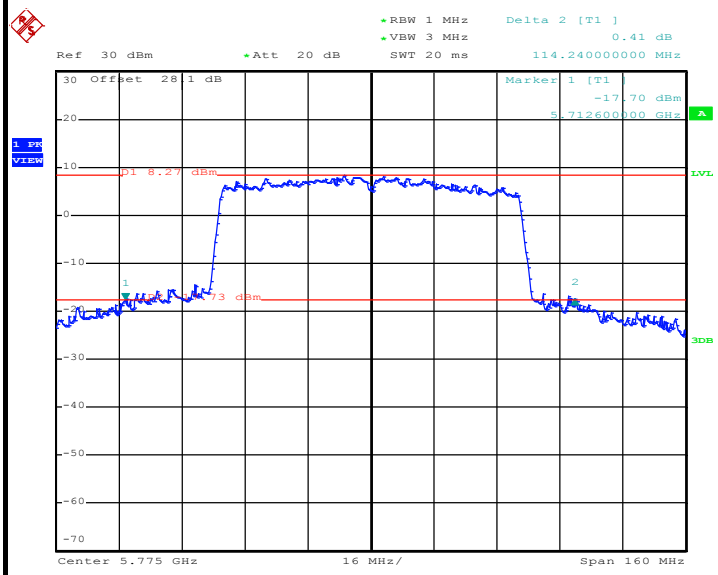
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



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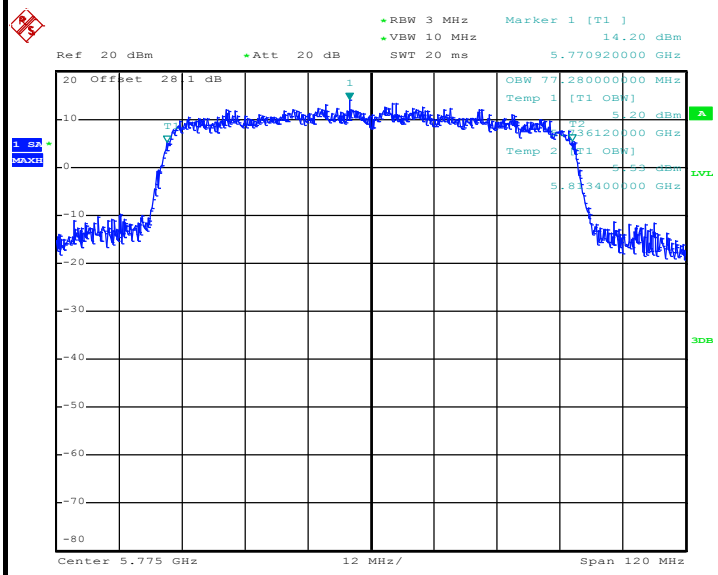
Maximum 99% Occupied Bandwidth



Date: 29.JUL.2018 12:29:47

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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

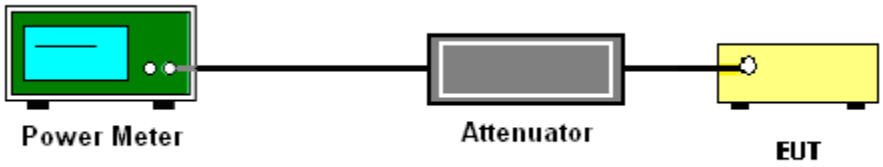
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

<CDD Modes>

 # 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 = 300 kHz.
- Set VBW ≥ 1 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(500kHz/RBW) to the test result.
- 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.

<TXBF Modes>

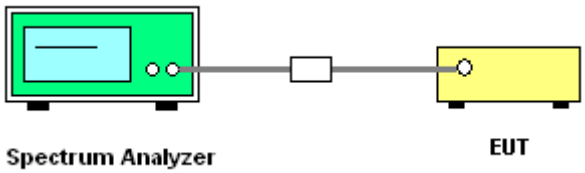
 # Method SA-3 #

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (c): Measure and add 10 log(N_{ANT}) dB.
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup

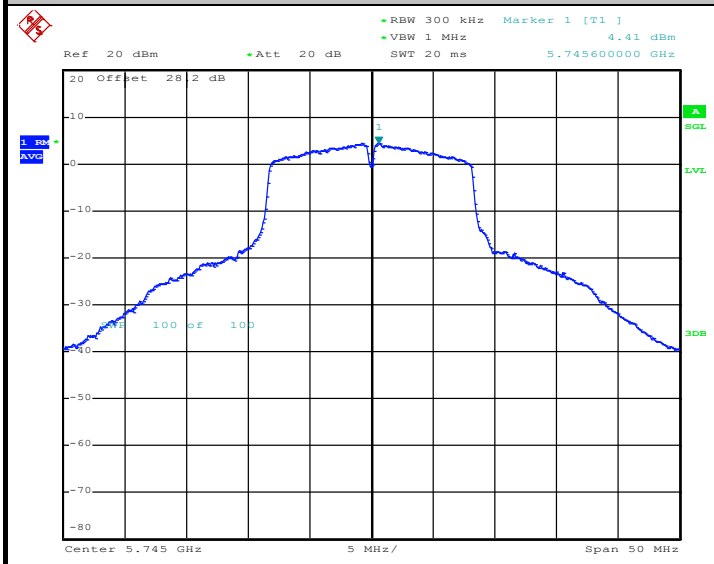


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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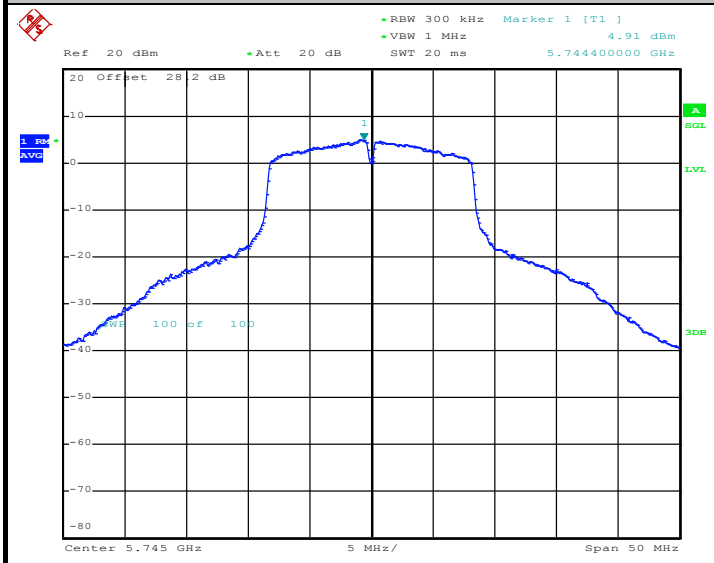
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



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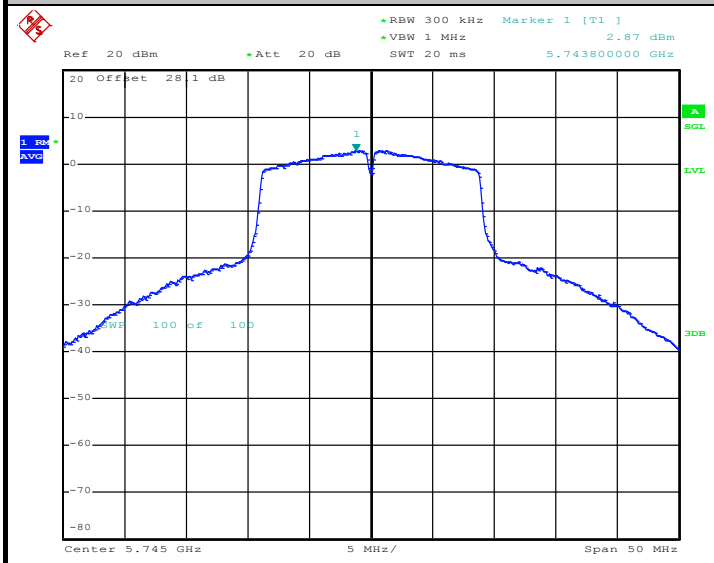
<TXBF Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



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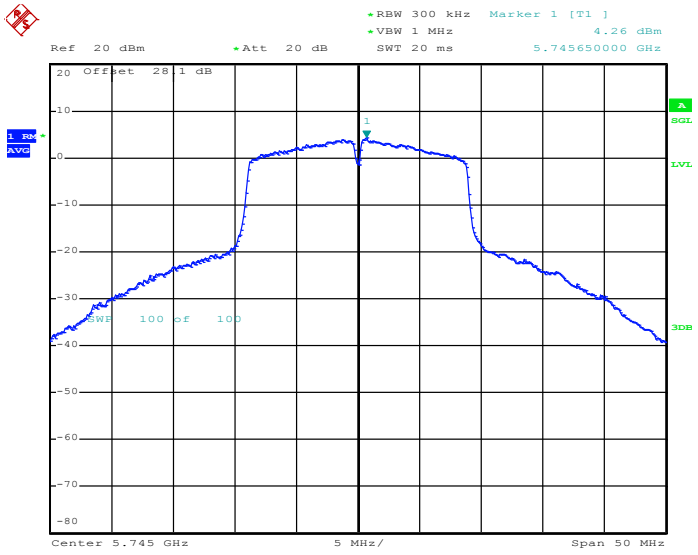
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



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3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ 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

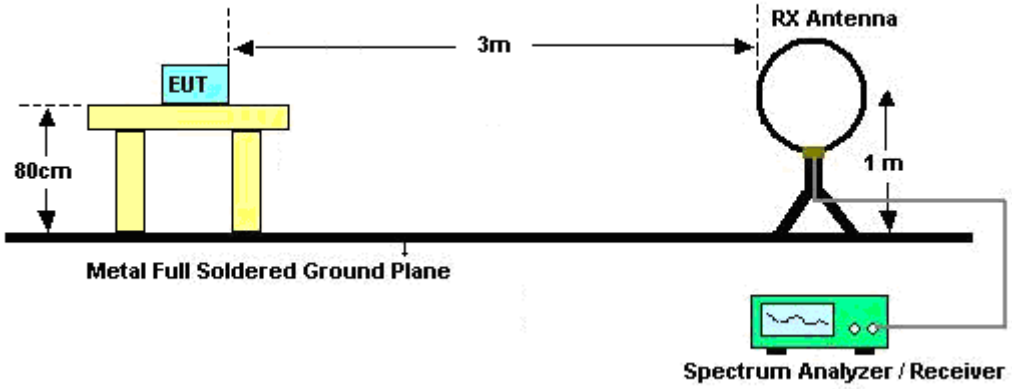
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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.

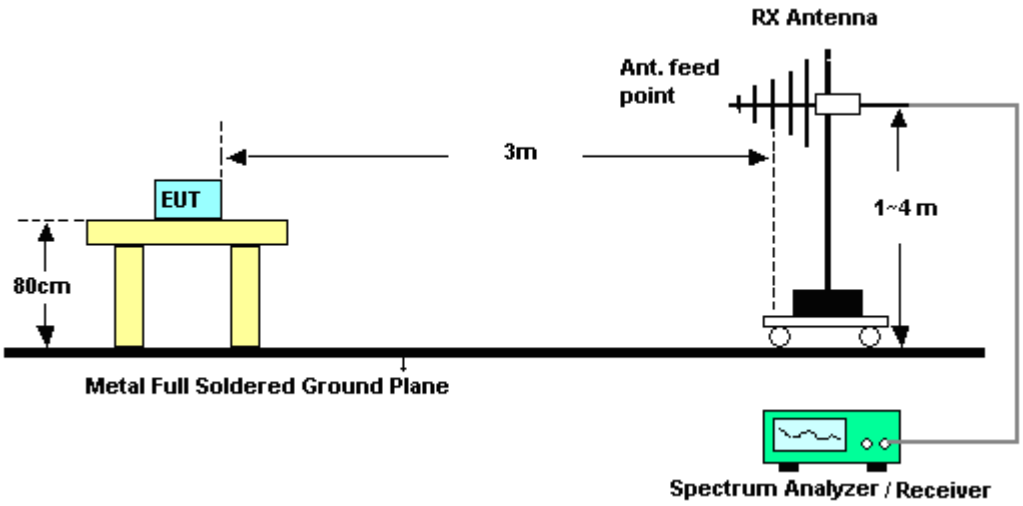
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again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

3.4.4 Test Setup

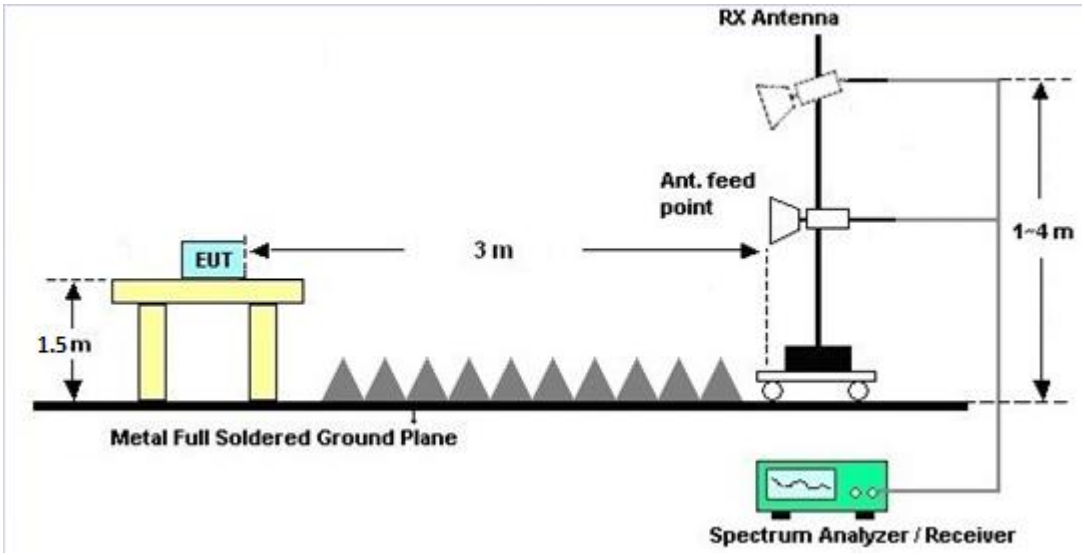
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

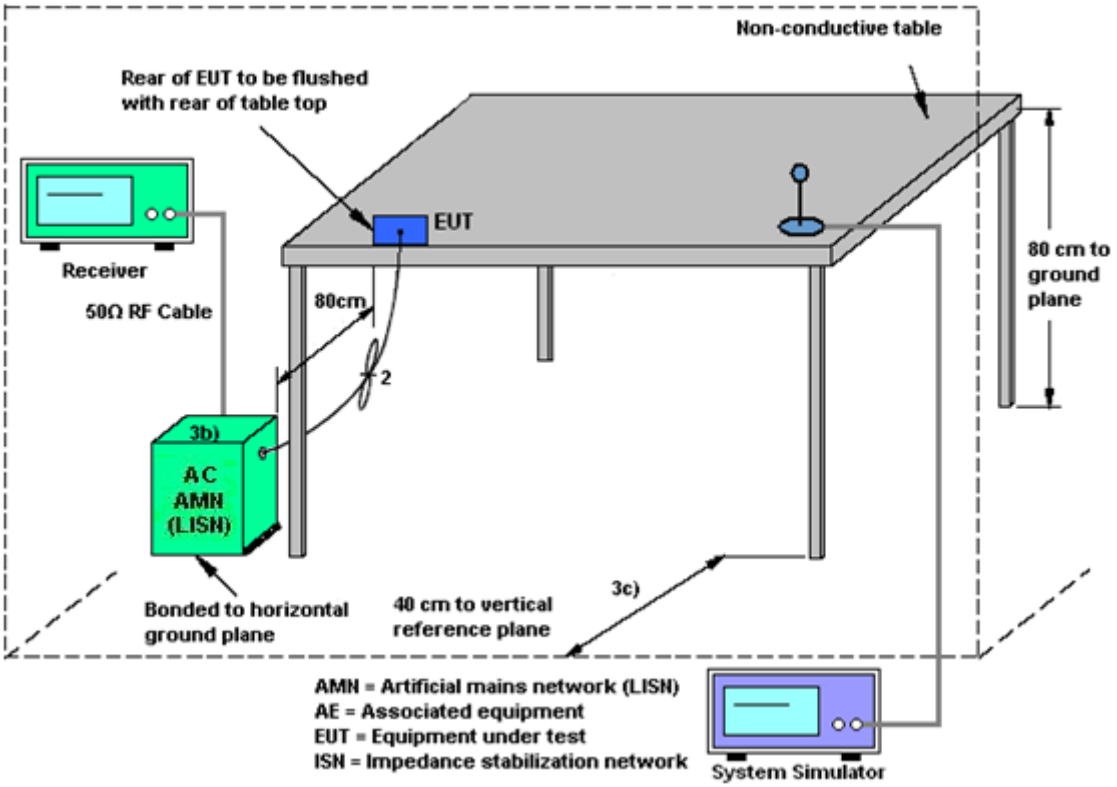
3.5.2 Measuring Instruments

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



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.

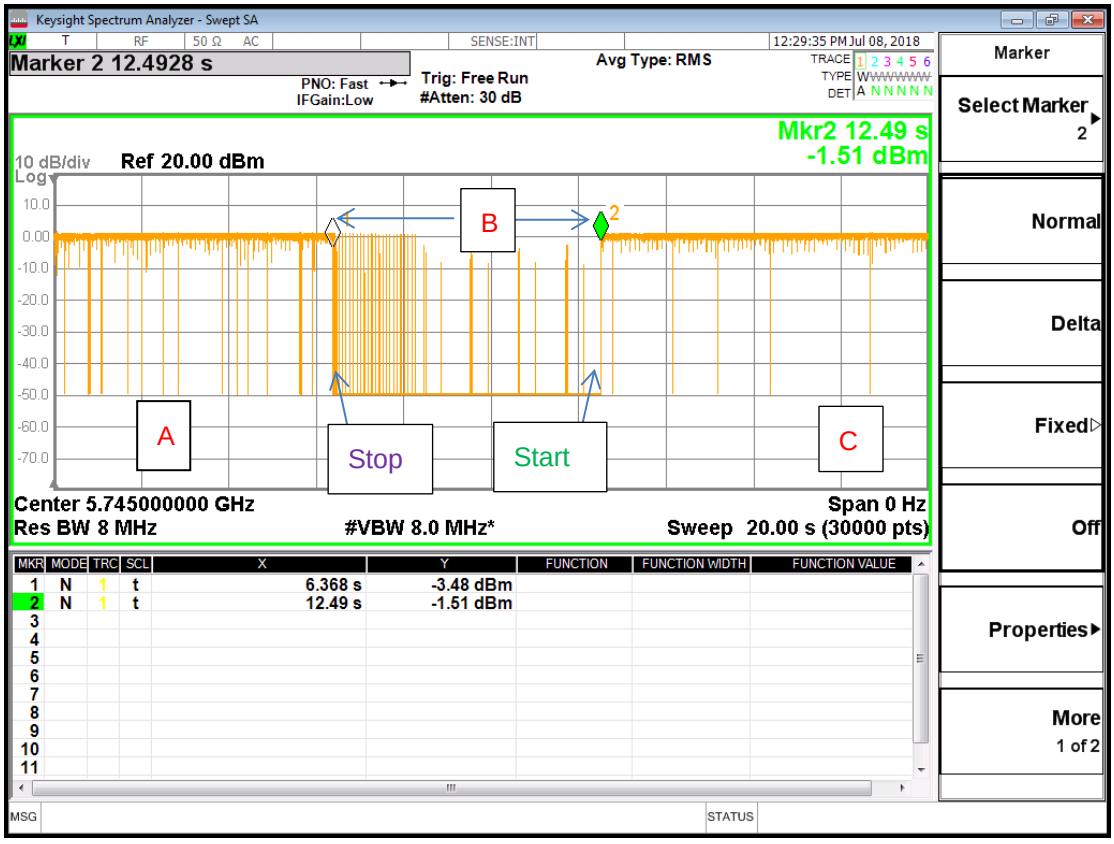
B. Information stop: stop supplying information to the access point.

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.

5745MHz



Note: The control / signalling 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 G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

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

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

<CDD Modes>

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	1.15	5.30	5.30	6.48	0.00	0.48

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	1.15	5.30	6.48	6.48	0.48	0.48

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Jun. 25, 2018~ Jul. 26, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jun. 25, 2018~ Jul. 26, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jun. 25, 2018~ Jul. 26, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 25, 2018~ Jul. 26, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 09, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jul. 09, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jul. 09, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Jul. 09, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 09, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jul. 09, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jul. 09, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Nov. 20, 2017	Jul. 05, 2018~ Jul. 11, 2018	Nov. 19, 2018	Radiation (03CH16-HY)
Horn Antenna	ESCO	3117	00211469	1GHz~18GHz	Jul. 31, 2017	Jul. 05, 2018~ Jul. 11, 2018	Jul. 30, 2018	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jul. 05, 2018~ Jul. 11, 2018	Nov. 22, 2018	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz ~ 26.5GHz	Dec. 05, 2017	Jul. 05, 2018~ Jul. 11, 2018	Dec. 04, 2018	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 54001	1GHz~18GHz	Apr. 16, 2018	Jul. 05, 2018~ Jul. 11, 2018	Apr. 15, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Sep. 27, 2017	Jul. 05, 2018~ Jul. 11, 2018	Sep. 26, 2018	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 05, 2017	Jul. 05, 2018~ Jul. 11, 2018	Dec. 04, 2018	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 27, 2018	Jul. 05, 2018~ Jul. 11, 2018	Mar. 26, 2019	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 05, 2018~ Jul. 11, 2018	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 05, 2018~ Jul. 11, 2018	N/A	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 02, 2017	Jul. 05, 2018~ Jul. 11, 2018	Nov. 01, 2018	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Nov. 27, 2017	Jul. 05, 2018~ Jul. 11, 2018	Nov. 26, 2018	Radiation (03CH16-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 14, 2018	Jul. 05, 2018~ Jul. 11, 2018	Mar. 13, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/26EA	30M~18GHz	Oct. 17, 2017	Jul. 05, 2018~ Jul. 11, 2018	Oct. 16, 2018	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jul. 05, 2018~ Jul. 11, 2018	Oct. 16, 2018	Radiation (03CH16-HY)
Software	AUDIX	E3 6.2009-8-24	RK001136	N/A	N/A	Jul. 05, 2018~ Jul. 11, 2018	N/A	Radiation (03CH16-HY)
Filter	Woken	WHKX8-5872.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 18, 2017	Jul. 05, 2018~ Jul. 11, 2018	Sep. 17, 2018	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 18, 2017	Jul. 05, 2018~ Jul. 11, 2018	Sep. 17, 2018	Radiation (03CH16-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.80**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.80**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90**

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

Test Engineer:	Shiming Liu / Rebecca Li	Temperature:	21~25	°C
Test Date:	2018/6/25 ~ 2018/7/26	Relative Humidity:	51~54	%

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

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	17.85	17.00	36.00	34.10	15.25	15.00	0.5	Pass
11a	6Mbps	1	157	5785	17.70	17.15	35.00	35.30	15.15	15.15	0.5	Pass
11a	6Mbps	1	165	5825	18.85	17.05	37.20	35.00	15.10	15.00	0.5	Pass
HT20	MCS0	1	149	5745	18.60	17.95	39.30	36.70	15.15	15.25	0.5	Pass
HT20	MCS0	1	157	5785	18.25	17.95	38.30	36.90	15.10	15.15	0.5	Pass
HT20	MCS0	1	165	5825	19.00	18.10	40.40	37.10	15.15	15.10	0.5	Pass
HT40	MCS0	1	151	5755	36.90	36.70	70.20	70.02	35.20	35.20	0.5	Pass
HT40	MCS0	1	159	5795	37.30	36.80	70.02	69.66	35.10	35.30	0.5	Pass
VHT80	MCS0	1	155	5775	77.40	77.40	131.84	127.04	75.68	75.96	0.5	Pass
11a	6Mbps	2	149	5745	18.00	17.40	34.60	36.85	15.20	15.10	0.5	Pass
11a	6Mbps	2	157	5785	17.60	17.70	36.50	35.80	15.20	15.10	0.5	Pass
11a	6Mbps	2	165	5825	19.00	17.75	37.65	35.50	15.10	15.25	0.5	Pass
HT20	MCS0	2	149	5745	18.95	18.20	37.70	37.90	15.10	15.85	0.5	Pass
HT20	MCS0	2	157	5785	18.40	18.20	38.40	38.10	15.20	15.70	0.5	Pass
HT20	MCS0	2	165	5825	20.25	18.40	44.65	38.40	15.10	15.70	0.5	Pass
HT40	MCS0	2	151	5755	36.90	36.90	70.11	68.94	35.28	35.20	0.5	Pass
HT40	MCS0	2	159	5795	37.00	37.10	71.28	69.21	35.28	35.30	0.5	Pass
VHT80	MCS0	2	155	5775	77.04	77.28	120.00	113.76	75.20	75.96	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.33	0.32	19.57	19.78		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	1	157	5785	0.33	0.32	19.52	19.77		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	1	165	5825	0.33	0.32	19.51	19.52		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	149	5745	0.35	0.35	19.07	19.45		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	157	5785	0.35	0.35	19.05	19.43		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	165	5825	0.35	0.35	19.03	19.40		30.00	30.00	1.15	5.30	Pass
HT40	MCS0	1	151	5755	0.62	0.68	18.54	18.70		30.00	30.00	1.15	5.30	Pass
HT40	MCS0	1	159	5795	0.62	0.68	18.52	18.54		30.00	30.00	1.15	5.30	Pass
VHT20	MCS0	1	149	5745	0.32	0.32	19.05	19.22		30.00	30.00	1.15	5.30	Pass
VHT20	MCS0	1	157	5785	0.32	0.32	19.04	19.15		30.00	30.00	1.15	5.30	Pass
VHT20	MCS0	1	165	5825	0.32	0.32	19.01	19.12		30.00	30.00	1.15	5.30	Pass
VHT40	MCS0	1	151	5755	0.61	0.63	18.52	18.58		30.00	30.00	1.15	5.30	Pass
VHT40	MCS0	1	159	5795	0.61	0.63	18.51	18.53		30.00	30.00	1.15	5.30	Pass
VHT80	MCS0	1	155	5775	1.18	1.18	18.16	18.34		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	2	149	5745	0.33	0.33	19.58	19.93	22.77	30.00		5.30		Pass
11a	6Mbps	2	157	5785	0.33	0.33	19.53	19.91	22.74	30.00		5.30		Pass
11a	6Mbps	2	165	5825	0.33	0.33	19.52	19.77	22.66	30.00		5.30		Pass
HT20	MCS0	2	149	5745	0.35	0.35	19.09	19.49	22.31	30.00		5.30		Pass
HT20	MCS0	2	157	5785	0.35	0.35	19.07	19.47	22.29	30.00		5.30		Pass
HT20	MCS0	2	165	5825	0.35	0.35	19.05	19.45	22.27	30.00		5.30		Pass
HT40	MCS0	2	151	5755	0.63	0.63	18.55	18.83	21.71	30.00		5.30		Pass
HT40	MCS0	2	159	5795	0.63	0.63	18.54	18.76	21.67	30.00		5.30		Pass
VHT20	MCS0	2	149	5745	0.32	0.32	19.07	19.47	22.28	30.00		5.30		Pass
VHT20	MCS0	2	157	5785	0.32	0.32	19.05	19.45	22.26	30.00		5.30		Pass
VHT20	MCS0	2	165	5825	0.32	0.32	19.02	19.42	22.23	30.00		5.30		Pass
VHT40	MCS0	2	151	5755	0.63	0.63	18.54	18.81	21.69	30.00		5.30		Pass
VHT40	MCS0	2	159	5795	0.63	0.63	18.53	18.73	21.65	30.00		5.30		Pass
VHT80	MCS0	2	155	5775	1.17	1.17	17.39	17.69	20.55	30.00		5.30		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.33	0.32	2.22	2.22	7.16	7.17		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	1	157	5785	0.33	0.32	2.22	2.22	7.08	6.78		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	1	165	5825	0.33	0.32	2.22	2.22	6.84	6.19		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	149	5745	0.35	0.35	2.22	2.22	6.45	6.30		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	157	5785	0.35	0.35	2.22	2.22	6.29	5.81		30.00	30.00	1.15	5.30	Pass
HT20	MCS0	1	165	5825	0.35	0.35	2.22	2.22	6.12	5.75		30.00	30.00	1.15	5.30	Pass
HT40	MCS0	1	151	5755	0.62	0.68	2.22	2.22	2.42	2.11		30.00	30.00	1.15	5.30	Pass
HT40	MCS0	1	159	5795	0.62	0.68	2.22	2.22	2.18	1.96		30.00	30.00	1.15	5.30	Pass
VHT80	MCS0	1	155	5775	1.18	1.18	2.22	2.22	-1.36	-1.19		30.00	30.00	1.15	5.30	Pass
11a	6Mbps	2	149	5745	0.33	0.33	2.22		6.96	5.24	10.47	29.52		6.48		Pass
11a	6Mbps	2	157	5785	0.33	0.33	2.22		6.77	4.92	10.15	29.52		6.48		Pass
11a	6Mbps	2	165	5825	0.33	0.33	2.22		6.51	4.56	9.79	29.52		6.48		Pass
HT20	MCS0	2	149	5745	0.35	0.35	2.22		6.26	4.82	10.05	29.52		6.48		Pass
HT20	MCS0	2	157	5785	0.35	0.35	2.22		5.96	4.40	9.63	29.52		6.48		Pass
HT20	MCS0	2	165	5825	0.35	0.35	2.22		6.07	4.25	9.48	29.52		6.48		Pass
HT40	MCS0	2	151	5755	0.63	0.63	2.22		2.16	0.27	5.50	29.52		6.48		Pass
HT40	MCS0	2	159	5795	0.63	0.63	2.22		1.95	0.11	5.34	29.52		6.48		Pass
VHT80	MCS0	2	155	5775	1.17	1.17	2.22		-2.37	-4.34	0.89	29.52		6.48		Pass

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

Appendix A. Test Result of Conducted Test Items

<TXBF Mode>

Test Engineer:	Rebecca Li/Shiming Liu/Bill Kuo	Temperature:	21~25	°C
Test Date:	2018/7/4~2018/7/29	Relative Humidity:	51~54	%

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

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
VHT20	MCS0	2	149	5745	19.15	18.65	41.10	38.50	15.10	15.70	0.5	Pass
VHT20	MCS0	2	157	5785	18.70	18.60	39.20	38.50	15.00	15.70	0.5	Pass
VHT20	MCS0	2	165	5825	22.35	19.30	42.60	38.70	15.10	15.70	0.5	Pass
VHT40	MCS0	2	151	5755	37.50	37.20	72.90	67.86	35.10	34.92	0.5	Pass
VHT40	MCS0	2	159	5795	37.90	37.30	74.34	70.74	34.92	34.92	0.5	Pass
VHT80	MCS0	2	155	5775	77.28	77.16	114.24	104.96	74.88	75.52	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.13	0.13	18.71	19.84	22.32	29.52		6.48		Pass
VHT20	MCS0	2	157	5785	0.13	0.13	18.69	19.76	22.27	29.52		6.48		Pass
VHT20	MCS0	2	165	5825	0.13	0.13	18.98	19.76	22.40	29.52		6.48		Pass
VHT40	MCS0	2	151	5755	0.23	0.23	18.21	19.25	21.77	29.52		6.48		Pass
VHT40	MCS0	2	159	5795	0.23	0.23	18.12	18.99	21.59	29.52		6.48		Pass
VHT80	MCS0	2	155	5775	0.46	0.51	17.11	17.83	20.49	29.52		6.48		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.13	0.13	2.22		5.22	6.61	9.62	29.52		6.48		Pass
VHT20	MCS0	2	157	5785	0.13	0.13	2.22		5.20	6.17	9.18	29.52		6.48		Pass
VHT20	MCS0	2	165	5825	0.13	0.13	2.22		5.19	6.24	9.25	29.52		6.48		Pass
VHT40	MCS0	2	151	5755	0.23	0.23	2.22		1.33	2.15	5.16	29.52		6.48		Pass
VHT40	MCS0	2	159	5795	0.23	0.23	2.22		1.16	1.84	4.85	29.52		6.48		Pass
VHT80	MCS0	2	155	5775	0.46	0.51	2.22		-4.01	-3.19	-0.18	29.52		6.48		Pass

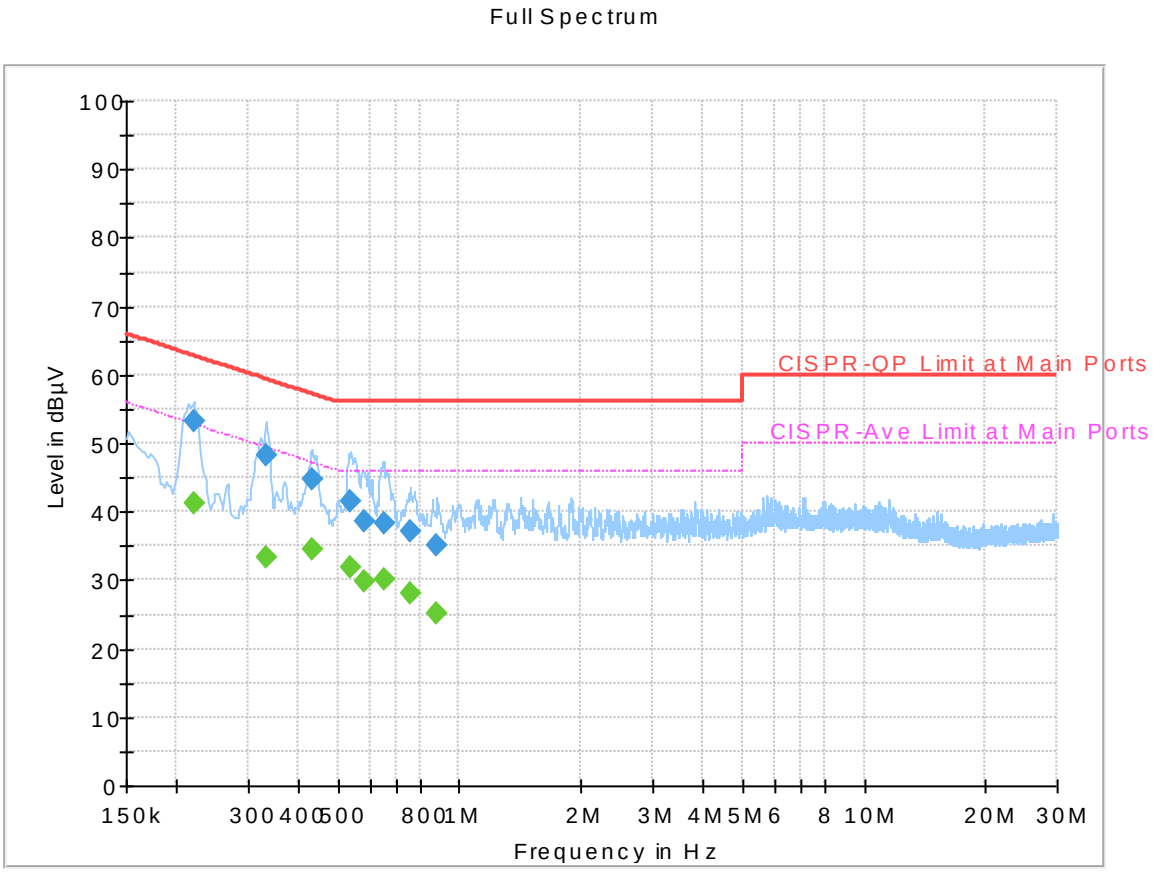
Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	**Temperature :**	24~26℃
		Relative Humidity :	51~55%

EUT Information

Report NO :	832126-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



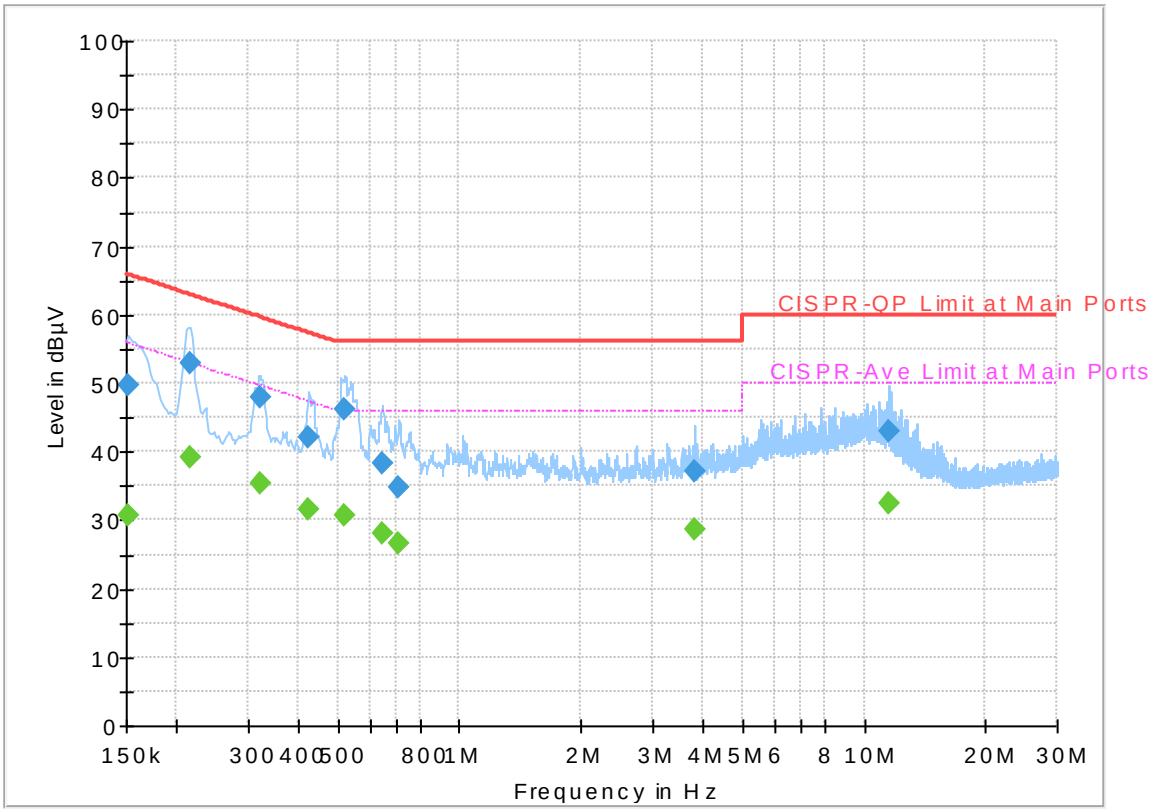
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.219750	---	41.35	52.83	11.48	L1	OFF	19.5
0.219750	53.12	---	62.83	9.71	L1	OFF	19.5
0.332250	---	33.44	49.40	15.96	L1	OFF	19.5
0.332250	48.29	---	59.40	11.11	L1	OFF	19.5
0.431250	---	34.37	47.23	12.86	L1	OFF	19.5
0.431250	44.88	---	57.23	12.35	L1	OFF	19.5
0.537000	---	31.93	46.00	14.07	L1	OFF	19.5
0.537000	41.51	---	56.00	14.49	L1	OFF	19.5
0.579750	---	29.70	46.00	16.30	L1	OFF	19.5
0.579750	38.52	---	56.00	17.48	L1	OFF	19.5
0.649500	---	30.02	46.00	15.98	L1	OFF	19.6
0.649500	38.37	---	56.00	17.63	L1	OFF	19.6
0.757500	---	28.10	46.00	17.90	L1	OFF	19.6
0.757500	37.19	---	56.00	18.81	L1	OFF	19.6
0.879000	---	25.22	46.00	20.78	L1	OFF	19.6
0.879000	34.95	---	56.00	21.05	L1	OFF	19.6

EUT Information

Report NO :	832126-02
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.59	55.88	25.29	N	OFF	19.5
0.152250	49.75	---	65.88	16.13	N	OFF	19.5
0.215250	---	39.27	53.00	13.73	N	OFF	19.5
0.215250	52.96	---	63.00	10.04	N	OFF	19.5
0.321000	---	35.37	49.68	14.31	N	OFF	19.5
0.321000	47.87	---	59.68	11.81	N	OFF	19.5
0.424500	---	31.65	47.36	15.71	N	OFF	19.5
0.424500	42.11	---	57.36	15.25	N	OFF	19.5
0.521250	---	30.76	46.00	15.24	N	OFF	19.5
0.521250	46.08	---	56.00	9.92	N	OFF	19.5
0.645000	---	28.10	46.00	17.90	N	OFF	19.6
0.645000	38.39	---	56.00	17.61	N	OFF	19.6
0.710250	---	26.61	46.00	19.39	N	OFF	19.6
0.710250	34.77	---	56.00	21.23	N	OFF	19.6
3.815250	---	28.57	46.00	17.43	N	OFF	19.7
3.815250	36.99	---	56.00	19.01	N	OFF	19.7
11.460750	---	32.48	50.00	17.52	N	OFF	20.0
11.460750	42.99	---	60.00	17.01	N	OFF	20.0

Appendix C. Radiated Spurious Emission

Test Engineer :	JC Liang and Master Huang	Temperature :	22~26°C
		Relative Humidity :	50~54%

<CDD Mode>

Band 4 - 5725~5850MHz

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5613.4	53.74	-14.46	68.2	39.03	34.67	10.3	30.26	100	251	P	H
		5690	62.74	-35.09	97.83	47.91	34.8	10.33	30.3	100	251	P	H
		5719.6	78.82	-31.87	110.69	63.94	34.86	10.34	30.32	100	251	P	H
		5725	83.54	-38.66	122.2	68.66	34.86	10.34	30.32	100	251	P	H
	*	5745	113.06	-	-	98.15	34.89	10.35	30.33	100	251	P	H
	*	5745	105.39	-	-	90.48	34.89	10.35	30.33	100	251	A	H
		5636	52.73	-15.47	68.2	37.99	34.72	10.3	30.28	377	250	P	V
		5695.8	54.47	-47.63	102.1	39.64	34.8	10.33	30.3	377	250	P	V
		5719.2	72.53	-38.05	110.58	57.65	34.86	10.34	30.32	377	250	P	V
		5725	77.34	-44.86	122.2	62.46	34.86	10.34	30.32	377	250	P	V
	*	5745	107.48	-	-	92.57	34.89	10.35	30.33	377	250	P	V
	*	5745	100	-	-	85.09	34.89	10.35	30.33	377	250	A	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 157 5785MHz		5624.4	53.14	-15.06	68.2	38.41	34.69	10.3	30.26	105	278	P	H
		5682.4	53.76	-38.45	92.21	38.96	34.78	10.32	30.3	105	278	P	H
		5717	59.38	-50.58	109.96	44.53	34.83	10.34	30.32	105	278	P	H
		5724	59.68	-60.24	119.92	44.8	34.86	10.34	30.32	105	278	P	H
	*	5785	112.66	-	-	97.72	34.94	10.36	30.36	105	278	P	H
	*	5785	104.66	-	-	89.72	34.94	10.36	30.36	105	278	A	H
		5851	56.41	-63.51	119.92	41.36	35.05	10.38	30.38	105	278	P	H
		5855.4	58.46	-52.23	110.69	43.38	35.08	10.38	30.38	105	278	P	H
		5906.4	54.11	-27.82	81.93	38.97	35.16	10.39	30.41	105	278	P	H
		5937.8	52.73	-15.47	68.2	37.58	35.19	10.39	30.43	105	278	P	H
		5611.6	53.04	-15.16	68.2	38.34	34.67	10.29	30.26	400	151	P	V
		5656.6	52.72	-20.38	73.1	37.95	34.75	10.31	30.29	400	151	P	V
		5717	53.01	-56.95	109.96	38.16	34.83	10.34	30.32	400	151	P	V
		5723.2	52.02	-66.08	118.1	37.14	34.86	10.34	30.32	400	151	P	V
	*	5785	106.57	-	-	91.63	34.94	10.36	30.36	400	151	P	V
	*	5785	98.2	-	-	83.26	34.94	10.36	30.36	400	151	A	V
		5854.2	52.61	-60.01	112.62	37.53	35.08	10.38	30.38	400	151	P	V
		5864.8	52.85	-55.2	108.05	37.79	35.08	10.38	30.4	400	151	P	V
		5903.6	53.75	-30.25	84	38.64	35.13	10.39	30.41	400	151	P	V
		5935.8	52.86	-15.34	68.2	37.71	35.19	10.39	30.43	400	151	P	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 165 5825MHz	*	5825	111.62	-	-	96.6	35.02	10.37	30.37	101	279	P	H
	*	5825	103.77	-	-	88.75	35.02	10.37	30.37	101	279	A	H
		5851.2	74.59	-44.87	119.46	59.54	35.05	10.38	30.38	101	279	P	H
		5855	70.45	-40.35	110.8	55.37	35.08	10.38	30.38	101	279	P	H
		5875.8	59.03	-45.58	104.61	43.94	35.11	10.38	30.4	101	279	P	H
		5933.6	53.15	-15.05	68.2	37.99	35.19	10.39	30.42	101	279	P	H
	*	5825	105.87	-	-	90.85	35.02	10.37	30.37	400	295	P	V
	*	5825	97.61	-	-	82.59	35.02	10.37	30.37	400	295	A	V
		5850.2	68.61	-53.13	121.74	53.56	35.05	10.38	30.38	400	295	P	V
		5855.4	63.11	-47.58	110.69	48.03	35.08	10.38	30.38	400	295	P	V
		5875	53.7	-51.5	105.2	38.61	35.11	10.38	30.4	400	295	P	V
		5933	52.9	-15.3	68.2	37.74	35.19	10.39	30.42	400	295	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		11490	52.99	-21.01	74	62.57	38.08	13.74	61.4	100	94	P	H
		11490	45.13	-8.87	54	54.71	38.08	13.74	61.4	100	94	A	H
		17235	48.34	-19.86	68.2	48.04	40.96	17.13	57.79	100	0	P	H
		11490	56.08	-17.92	74	65.66	38.08	13.74	61.4	100	249	P	V
		11490	46.52	-7.48	54	56.1	38.08	13.74	61.4	100	249	A	V
		17235	48.88	-19.32	68.2	48.58	40.96	17.13	57.79	100	0	P	V
802.11a CH 157 5785MHz		11570	52.89	-21.11	74	62.41	38.2	13.81	61.53	100	83	P	H
		11570	45	-9	54	54.52	38.2	13.81	61.53	100	83	A	H
		17355	45.64	-22.56	68.2	44.82	40.89	17.41	57.48	100	0	P	H
		11570	55.86	-18.14	74	65.38	38.2	13.81	61.53	100	235	P	V
		11570	46.89	-7.11	54	56.41	38.2	13.81	61.53	100	235	A	V
		17355	48.54	-19.66	68.2	47.72	40.89	17.41	57.48	100	0	P	V
802.11a CH 165 5825MHz		11650	52.09	-21.91	74	61.59	38.29	13.88	61.67	100	95	P	H
		11650	44.71	-9.29	54	54.21	38.29	13.88	61.67	100	95	A	H
		17475	46.77	-21.43	68.2	45.41	40.82	17.7	57.16	100	0	P	H
		11650	55.33	-18.67	74	64.83	38.29	13.88	61.67	100	251	P	V
		11650	46.25	-7.75	54	55.75	38.29	13.88	61.67	100	251	A	V
		17475	48.72	-19.48	68.2	47.36	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5633.8	53.75	-14.45	68.2	39.01	34.72	10.3	30.28	101	279	P	H
		5694.8	63.39	-37.98	101.37	48.56	34.8	10.33	30.3	101	279	P	H
		5719.6	79.09	-31.6	110.69	64.21	34.86	10.34	30.32	101	279	P	H
		5725	87.23	-34.97	122.2	72.35	34.86	10.34	30.32	101	279	P	H
802.11n	*	5745	113.75	-	-	98.84	34.89	10.35	30.33	101	279	P	H
HT20	*	5745	105.95	-	-	91.04	34.89	10.35	30.33	101	279	A	H
CH 149		5605.6	52.62	-15.58	68.2	37.92	34.67	10.29	30.26	397	255	P	V
5745MHz		5698.6	57.4	-46.77	104.17	42.57	34.8	10.33	30.3	397	255	P	V
		5719.6	72.71	-37.98	110.69	57.83	34.86	10.34	30.32	397	255	P	V
		5725	79.39	-42.81	122.2	64.51	34.86	10.34	30.32	397	255	P	V
	*	5745	108.59	-	-	93.68	34.89	10.35	30.33	397	255	P	V
	*	5745	101.05	-	-	86.14	34.89	10.35	30.33	397	255	A	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5644.6	54.56	-13.64	68.2	39.81	34.72	10.31	30.28	100	280	P	H
		5695.8	53.52	-48.58	102.1	38.69	34.8	10.33	30.3	100	280	P	H
		5715.8	58.57	-51.06	109.63	43.72	34.83	10.34	30.32	100	280	P	H
		5723	59.42	-58.22	117.64	44.54	34.86	10.34	30.32	100	280	P	H
	*	5785	112.19	-	-	97.25	34.94	10.36	30.36	100	280	P	H
	*	5785	104.44	-	-	89.5	34.94	10.36	30.36	100	280	A	H
		5851.4	57.09	-61.92	119.01	42.04	35.05	10.38	30.38	100	280	P	H
		5857.2	55.85	-54.33	110.18	40.77	35.08	10.38	30.38	100	280	P	H
802.11n		5908.2	53.75	-26.85	80.6	38.61	35.16	10.39	30.41	100	280	P	H
HT20		5942.8	52.68	-15.52	68.2	37.5	35.22	10.39	30.43	100	280	P	H
CH 157		5625.6	52.62	-15.58	68.2	37.89	34.69	10.3	30.26	400	0	P	V
5785MHz		5675.6	53.31	-33.87	87.18	38.5	34.78	10.32	30.29	400	0	P	V
		5703.6	51.97	-54.24	106.21	37.11	34.83	10.33	30.3	400	0	P	V
		5725	52.85	-69.35	122.2	37.97	34.86	10.34	30.32	400	0	P	V
	*	5785	105.1	-	-	90.16	34.94	10.36	30.36	400	0	P	V
	*	5785	96.95	-	-	82.01	34.94	10.36	30.36	400	0	A	V
		5852.4	52.33	-64.4	116.73	37.28	35.05	10.38	30.38	400	0	P	V
		5858.4	52.98	-56.87	109.85	37.92	35.08	10.38	30.4	400	0	P	V
		5885.4	53.64	-43.84	97.48	38.56	35.11	10.38	30.41	400	0	P	V
		5943.6	52.22	-15.98	68.2	37.04	35.22	10.39	30.43	400	0	P	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 165 5825MHz	*	5825	110.93	-	-	95.91	35.02	10.37	30.37	100	280	P	H
	*	5825	102.71	-	-	87.69	35.02	10.37	30.37	100	280	A	H
		5854.6	73.57	-38.14	111.71	58.49	35.08	10.38	30.38	100	280	P	H
		5856	71.53	-38.99	110.52	56.45	35.08	10.38	30.38	100	280	P	H
		5875	60.72	-44.48	105.2	45.63	35.11	10.38	30.4	100	280	P	H
		5942.6	53.4	-14.8	68.2	38.22	35.22	10.39	30.43	100	280	P	H
	*	5825	105.39	-	-	90.37	35.02	10.37	30.37	400	295	P	V
	*	5825	97.18	-	-	82.16	35.02	10.37	30.37	400	295	A	V
		5850	69.59	-52.61	122.2	54.54	35.05	10.38	30.38	400	295	P	V
		5856.6	64.06	-46.29	110.35	48.98	35.08	10.38	30.38	400	295	P	V
		5882.4	53.52	-46.18	99.7	38.43	35.11	10.38	30.4	400	295	P	V
		5936	52.67	-15.53	68.2	37.52	35.19	10.39	30.43	400	295	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	55	-19	74	64.58	38.08	13.74	61.4	100	94	P	H
		11490	45.09	-8.91	54	54.67	38.08	13.74	61.4	100	94	A	H
		17235	46.74	-21.46	68.2	46.44	40.96	17.13	57.79	100	0	P	H
		11490	56.08	-17.92	74	65.66	38.08	13.74	61.4	100	247	P	V
		11490	46.84	-7.16	54	56.42	38.08	13.74	61.4	100	247	A	V
		17235	47.3	-20.9	68.2	47	40.96	17.13	57.79	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	53.46	-20.54	74	62.98	38.2	13.81	61.53	100	94	P	H
		11570	43.32	-10.68	54	52.84	38.2	13.81	61.53	100	94	A	H
		17355	47.15	-21.05	68.2	46.33	40.89	17.41	57.48	100	0	P	H
		11570	56.32	-17.68	74	65.84	38.2	13.81	61.53	100	126	P	V
		11570	46.6	-7.4	54	56.12	38.2	13.81	61.53	100	126	A	V
		17355	47.06	-21.14	68.2	46.24	40.89	17.41	57.48	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	54.92	-19.08	74	64.42	38.29	13.88	61.67	100	182	P	H
		11650	44.03	-9.97	54	53.53	38.29	13.88	61.67	100	182	A	H
		17475	48.8	-19.4	68.2	47.44	40.82	17.7	57.16	100	0	P	H
		11650	55.73	-18.27	74	65.23	38.29	13.88	61.67	100	273	P	V
		11650	44.69	-9.31	54	54.19	38.29	13.88	61.67	100	273	A	V
		17475	48.7	-19.5	68.2	47.34	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.6	59.42	-8.78	68.2	44.67	34.72	10.31	30.28	101	280	P	H
		5699.2	74.45	-30.16	104.61	59.62	34.8	10.33	30.3	101	280	P	H
		5719.4	85.88	-24.75	110.63	71	34.86	10.34	30.32	101	280	P	H
		5724.4	89.39	-31.44	120.83	74.51	34.86	10.34	30.32	101	280	P	H
	*	5755	109.44	-	-	94.51	34.91	10.35	30.33	101	280	P	H
	*	5755	101.71	-	-	86.78	34.91	10.35	30.33	101	280	A	H
		5850.6	62.17	-58.66	120.83	47.12	35.05	10.38	30.38	101	280	P	H
		5857.2	59.91	-50.27	110.18	44.83	35.08	10.38	30.38	101	280	P	H
802.11n		5881	55.91	-44.83	100.74	40.82	35.11	10.38	30.4	101	280	P	H
HT40		5933	52.75	-15.45	68.2	37.59	35.19	10.39	30.42	101	280	P	H
CH 151		5636.8	54.28	-13.92	68.2	39.54	34.72	10.3	30.28	398	255	P	V
5755MHz		5699	67.8	-36.66	104.46	52.97	34.8	10.33	30.3	398	255	P	V
		5719	79.08	-31.44	110.52	64.2	34.86	10.34	30.32	398	255	P	V
		5725	81.25	-40.95	122.2	66.37	34.86	10.34	30.32	398	255	P	V
	*	5755	103.17	-	-	88.24	34.91	10.35	30.33	398	255	P	V
	*	5755	95.42	-	-	80.49	34.91	10.35	30.33	398	255	A	V
		5853.2	54.22	-60.68	114.9	39.17	35.05	10.38	30.38	398	255	P	V
		5857.6	55.03	-55.04	110.07	39.95	35.08	10.38	30.38	398	255	P	V
		5880.8	53.86	-47.03	100.89	38.77	35.11	10.38	30.4	398	255	P	V
		5940.2	52.67	-15.53	68.2	37.49	35.22	10.39	30.43	398	255	P	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5635.6	54.27	-13.93	68.2	39.53	34.72	10.3	30.28	100	280	P	H
		5696.4	63.17	-39.38	102.55	48.34	34.8	10.33	30.3	100	280	P	H
		5719.4	65.41	-45.22	110.63	50.53	34.86	10.34	30.32	100	280	P	H
		5721.6	67.34	-47.11	114.45	52.46	34.86	10.34	30.32	100	280	P	H
	*	5795	108.06	-	-	93.08	34.97	10.37	30.36	100	280	P	H
	*	5795	100.24	-	-	85.26	34.97	10.37	30.36	100	280	A	H
		5851.2	70.67	-48.79	119.46	55.62	35.05	10.38	30.38	100	280	P	H
		5857	72.3	-37.94	110.24	57.22	35.08	10.38	30.38	100	280	P	H
802.11n		5876	63.77	-40.69	104.46	48.68	35.11	10.38	30.4	100	280	P	H
HT40		5926.4	54.72	-13.48	68.2	39.56	35.19	10.39	30.42	100	280	P	H
CH 159		5627.4	52.15	-16.05	68.2	37.42	34.69	10.3	30.26	400	360	P	V
5795MHz		5674.8	53.67	-32.92	86.59	38.86	34.78	10.32	30.29	400	360	P	V
		5719.8	54.63	-56.11	110.74	39.75	34.86	10.34	30.32	400	360	P	V
		5722.6	57.33	-59.4	116.73	42.45	34.86	10.34	30.32	400	360	P	V
	*	5795	100.19	-	-	85.21	34.97	10.37	30.36	400	360	P	V
	*	5795	92.47	-	-	77.49	34.97	10.37	30.36	400	360	A	V
		5854.8	55.78	-55.48	111.26	40.7	35.08	10.38	30.38	400	360	P	V
		5859	57.09	-52.59	109.68	42.03	35.08	10.38	30.4	400	360	P	V
		5880.6	55.19	-45.85	101.04	40.1	35.11	10.38	30.4	400	360	P	V
		5939.4	52.25	-15.95	68.2	37.07	35.22	10.39	30.43	400	360	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	49.56	-24.44	74	59.13	38.1	13.75	61.42	100	0	P	H
		17265	45.18	-23.02	68.2	44.76	40.94	17.19	57.71	100	0	P	H
		11510	49.18	-24.82	74	58.75	38.1	13.75	61.42	100	0	P	V
		17265	45.63	-22.57	68.2	45.21	40.94	17.19	57.71	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	49.21	-24.79	74	58.72	38.22	13.83	61.56	100	0	P	H
		17385	45.72	-22.48	68.2	44.77	40.87	17.48	57.4	100	0	P	H
		17385	46.71	-21.49	68.2	45.76	40.87	17.48	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5626.6	67.25	-0.95	68.2	52.52	34.69	10.3	30.26	100	280	P	H
		5699.8	82.77	-22.28	105.05	67.94	34.8	10.33	30.3	100	280	P	H
		5719.4	86.45	-24.18	110.63	71.57	34.86	10.34	30.32	100	280	P	H
		5725	86.98	-35.22	122.2	72.1	34.86	10.34	30.32	100	280	P	H
	*	5775	106.04	-	-	91.08	34.94	10.36	30.34	100	280	P	H
	*	5775	99.14	-	-	84.18	34.94	10.36	30.34	100	280	A	H
		5852.2	81.82	-35.36	117.18	66.77	35.05	10.38	30.38	100	280	P	H
		5860.2	77.3	-32.04	109.34	62.24	35.08	10.38	30.4	100	280	P	H
802.11ac		5876	71.27	-33.19	104.46	56.18	35.11	10.38	30.4	100	280	P	H
VHT80		5925.8	62.59	-5.61	68.2	47.43	35.19	10.39	30.42	100	280	P	H
CH 155		5650	58.45	-9.75	68.2	43.67	34.75	10.31	30.28	400	352	P	V
5775MHz		5680.2	68.71	-21.88	90.59	53.91	34.78	10.32	30.3	400	352	P	V
		5719	72.82	-37.7	110.52	57.94	34.86	10.34	30.32	400	352	P	V
		5724.8	74.35	-47.39	121.74	59.47	34.86	10.34	30.32	400	352	P	V
	*	5775	98.02	-	-	83.06	34.94	10.36	30.34	400	352	P	V
	*	5775	91.24	-	-	76.28	34.94	10.36	30.34	400	352	A	V
		5854	67.6	-45.48	113.08	52.52	35.08	10.38	30.38	400	352	P	V
		5855.2	66.97	-43.77	110.74	51.89	35.08	10.38	30.38	400	352	P	V
		5875	62.25	-42.95	105.2	47.16	35.11	10.38	30.4	400	352	P	V
		5931.4	55.73	-12.47	68.2	40.57	35.19	10.39	30.42	400	352	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		11550	48.09	-25.91	74	57.62	38.17	13.79	61.49	100	0	P	H
		17325	47.27	-20.93	68.2	46.58	40.91	17.34	57.56	100	0	P	H
		11550	49.19	-24.81	74	58.72	38.17	13.79	61.49	100	0	P	V
		17325	46.9	-21.3	68.2	46.21	40.91	17.34	57.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5649	57.02	-11.18	68.2	41.5	34.72	10.31	29.51	103	124	P	H
		5698	66.73	-37	103.73	51.13	34.8	10.33	29.53	103	124	P	H
		5719.4	78.72	-31.91	110.63	63.06	34.86	10.34	29.54	103	124	P	H
		5724.4	85.13	-35.7	120.83	69.47	34.86	10.34	29.54	103	124	P	H
	*	5745	118.45	-	-	102.77	34.89	10.35	29.56	103	124	P	H
	*	5745	110.96	-	-	95.28	34.89	10.35	29.56	103	124	A	H
		5616	55.89	-12.31	68.2	40.39	34.69	10.3	29.49	400	85	P	V
		5698.4	61.15	-42.87	104.02	45.55	34.8	10.33	29.53	400	85	P	V
		5719.6	76.24	-34.45	110.69	60.58	34.86	10.34	29.54	400	85	P	V
		5725	83.5	-38.7	122.2	67.84	34.86	10.34	29.54	400	85	P	V
	*	5745	116.1	-	-	100.42	34.89	10.35	29.56	400	85	P	V
	*	5745	108.93	-	-	93.25	34.89	10.35	29.56	400	85	A	V

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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 157 5785MHz		5630.2	57.13	-11.07	68.2	41.65	34.69	10.3	29.51	100	122	P	H
		5681.6	57.58	-34.04	91.62	42.01	34.78	10.32	29.53	100	122	P	H
		5720	60.05	-50.75	110.8	44.39	34.86	10.34	29.54	100	122	P	H
		5722.4	61.38	-54.89	116.27	45.72	34.86	10.34	29.54	100	122	P	H
	*	5785	118.14	-	-	102.42	34.94	10.36	29.58	100	122	P	H
	*	5785	109.74	-	-	94.02	34.94	10.36	29.58	100	122	A	H
		5852	59.41	-58.23	117.64	43.58	35.05	10.38	29.6	100	122	P	H
		5855.8	57.99	-52.59	110.58	42.13	35.08	10.38	29.6	100	122	P	H
		5896.2	56.88	-32.59	89.47	41	35.13	10.38	29.63	100	122	P	H
		5925.2	55.22	-12.98	68.2	39.28	35.19	10.39	29.64	100	122	P	H
		5637.8	57.41	-10.79	68.2	41.89	34.72	10.31	29.51	396	84	P	V
		5672.8	56.86	-28.25	85.11	41.28	34.78	10.32	29.52	396	84	P	V
		5717.6	56.43	-53.7	110.13	40.77	34.86	10.34	29.54	396	84	P	V
		5723.4	57.58	-60.97	118.55	41.92	34.86	10.34	29.54	396	84	P	V
	*	5785	115.7	-	-	99.98	34.94	10.36	29.58	396	84	P	V
	*	5785	108.81	-	-	93.09	34.94	10.36	29.58	396	84	A	V
		5850.4	57.78	-63.51	121.29	41.95	35.05	10.38	29.6	396	84	P	V
		5870.2	57.2	-49.34	106.54	41.36	35.08	10.38	29.62	396	84	P	V
		5901.8	56.72	-28.61	85.33	40.83	35.13	10.39	29.63	396	84	P	V
		5944.2	54.76	-13.44	68.2	38.81	35.22	10.39	29.66	396	84	P	V

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 165 5825MHz	*	5825	115.88	-	-	100.08	35.02	10.37	29.59	101	112	P	H
	*	5825	108	-	-	92.2	35.02	10.37	29.59	101	112	A	H
		5850.8	77	-43.38	120.38	61.17	35.05	10.38	29.6	101	112	P	H
		5855.6	72.22	-38.41	110.63	56.36	35.08	10.38	29.6	101	112	P	H
		5875.8	61.08	-43.53	104.61	45.21	35.11	10.38	29.62	101	112	P	H
		5933.6	56.34	-11.86	68.2	40.4	35.19	10.39	29.64	101	112	P	H
	*	5825	115.43	-	-	99.63	35.02	10.37	29.59	391	82	P	V
	*	5825	107.29	-	-	91.49	35.02	10.37	29.59	391	82	A	V
		5850.2	75.05	-46.69	121.74	59.22	35.05	10.38	29.6	391	82	P	V
		5857	69.99	-40.25	110.24	54.13	35.08	10.38	29.6	391	82	P	V
		5875.6	60.22	-44.53	104.75	44.35	35.11	10.38	29.62	391	82	P	V
		5933.6	56.23	-11.97	68.2	40.29	35.19	10.39	29.64	391	82	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		11490	61.17	-12.83	74	70.75	38.08	13.74	61.4	100	231	P	H
		11490	51.85	-2.15	54	61.43	38.08	13.74	61.4	100	231	A	H
		17235	58.44	-9.76	68.2	58.14	40.96	17.13	57.79	100	0	P	H
		11490	58.35	-15.65	74	67.93	38.08	13.74	61.4	100	211	P	V
		11490	47.92	-6.08	54	57.5	38.08	13.74	61.4	100	211	A	V
		17235	56.56	-11.64	68.2	56.26	40.96	17.13	57.79	100	0	P	V
802.11a CH 157 5785MHz		11570	60.89	-13.11	74	70.41	38.2	13.81	61.53	100	181	P	H
		11570	51.12	-2.88	54	60.64	38.2	13.81	61.53	100	181	A	H
		17355	59.2	-9	68.2	58.38	40.89	17.41	57.48	100	0	P	H
		11570	57.32	-16.68	74	66.84	38.2	13.81	61.53	100	286	P	V
		11570	47.32	-6.68	54	56.84	38.2	13.81	61.53	100	286	A	V
		17355	53.78	-14.42	68.2	52.96	40.89	17.41	57.48	100	0	P	V
802.11a CH 165 5825MHz		11650	58.05	-15.95	74	67.55	38.29	13.88	61.67	100	182	P	H
		11650	48.29	-5.71	54	57.79	38.29	13.88	61.67	100	182	A	H
		17475	54.84	-13.36	68.2	53.48	40.82	17.7	57.16	100	0	P	H
		11650	55.04	-18.96	74	64.54	38.29	13.88	61.67	100	208	P	V
		11650	45.38	-8.62	54	54.88	38.29	13.88	61.67	100	208	A	V
		17475	50.7	-17.5	68.2	49.34	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 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)
		5631.2	57.54	-10.66	68.2	42.06	34.69	10.3	29.51	106	122	P	H
		5698.2	67.49	-36.38	103.87	51.89	34.8	10.33	29.53	106	122	P	H
		5719.8	82.7	-28.04	110.74	67.04	34.86	10.34	29.54	106	122	P	H
		5724.2	86.12	-34.26	120.38	70.46	34.86	10.34	29.54	106	122	P	H
802.11n	*	5745	117.82	-	-	102.14	34.89	10.35	29.56	106	122	P	H
HT20	*	5745	110.46	-	-	94.78	34.89	10.35	29.56	106	122	A	H
CH 149		5612.8	56.75	-11.45	68.2	41.27	34.67	10.3	29.49	400	84	P	V
5745MHz		5698.6	63.54	-40.63	104.17	47.94	34.8	10.33	29.53	400	84	P	V
		5719	78.08	-32.44	110.52	62.42	34.86	10.34	29.54	400	84	P	V
		5724.8	84.81	-36.93	121.74	69.15	34.86	10.34	29.54	400	84	P	V
	*	5745	116.15	-	-	100.47	34.89	10.35	29.56	400	84	P	V
	*	5745	108.54	-	-	92.86	34.89	10.35	29.56	400	84	A	V

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5631.8	57.16	-11.04	68.2	41.68	34.69	10.3	29.51	106	123	P	H
		5696	57.8	-44.45	102.25	42.2	34.8	10.33	29.53	106	123	P	H
		5718	58.59	-51.65	110.24	42.93	34.86	10.34	29.54	106	123	P	H
		5724.2	61.15	-59.23	120.38	45.49	34.86	10.34	29.54	106	123	P	H
	*	5785	115.95	-	-	100.23	34.94	10.36	29.58	106	123	P	H
	*	5785	108.21	-	-	92.49	34.94	10.36	29.58	106	123	A	H
		5851.2	59.41	-60.05	119.46	43.58	35.05	10.38	29.6	106	123	P	H
		5855.6	57.95	-52.68	110.63	42.09	35.08	10.38	29.6	106	123	P	H
802.11n		5910.2	56.22	-22.9	79.12	40.31	35.16	10.39	29.64	106	123	P	H
HT20		5926.6	55.71	-12.49	68.2	39.77	35.19	10.39	29.64	106	123	P	H
CH 157		5639.2	56.79	-11.41	68.2	41.27	34.72	10.31	29.51	396	85	P	V
5785MHz		5692.2	56.66	-42.79	99.45	41.06	34.8	10.33	29.53	396	85	P	V
		5714	56.3	-52.82	109.12	40.67	34.83	10.34	29.54	396	85	P	V
		5724.2	57.31	-63.07	120.38	41.65	34.86	10.34	29.54	396	85	P	V
	*	5785	115.46	-	-	99.74	34.94	10.36	29.58	396	85	P	V
	*	5785	107.2	-	-	91.48	34.94	10.36	29.58	396	85	A	V
		5852.8	56.99	-58.83	115.82	41.16	35.05	10.38	29.6	396	85	P	V
		5868.6	55.82	-51.17	106.99	39.98	35.08	10.38	29.62	396	85	P	V
		5917.2	56.91	-17.04	73.95	41	35.16	10.39	29.64	396	85	P	V
		5930.8	54.98	-13.22	68.2	39.04	35.19	10.39	29.64	396	85	P	V

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	5825	115.09	-	-	99.29	35.02	10.37	29.59	106	122	P	H
	*	5825	107.24	-	-	91.44	35.02	10.37	29.59	106	122	A	H
		5851	76.98	-42.94	119.92	61.15	35.05	10.38	29.6	106	122	P	H
		5856	75.87	-34.65	110.52	60.01	35.08	10.38	29.6	106	122	P	H
802.11n		5876	63.21	-41.25	104.46	47.34	35.11	10.38	29.62	106	122	P	H
HT20		5937.2	56.72	-11.48	68.2	40.8	35.19	10.39	29.66	106	122	P	H
CH 165	*	5825	114.57	-	-	98.77	35.02	10.37	29.59	391	81	P	V
5825MHz	*	5825	106.64	-	-	90.84	35.02	10.37	29.59	391	81	A	V
		5850.4	77.02	-44.27	121.29	61.19	35.05	10.38	29.6	391	81	P	V
		5856.2	72.88	-37.58	110.46	57.02	35.08	10.38	29.6	391	81	P	V
		5876.2	61.72	-42.59	104.31	45.85	35.11	10.38	29.62	391	81	P	V
		5930	55.75	-12.45	68.2	39.81	35.19	10.39	29.64	391	81	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	60.67	-13.33	74	70.25	38.08	13.74	61.4	100	182	P	H
		11490	50.24	-3.76	54	59.82	38.08	13.74	61.4	100	182	A	H
		17235	56.33	-11.87	68.2	56.03	40.96	17.13	57.79	100	0	P	H
		11490	58.28	-15.72	74	67.86	38.08	13.74	61.4	100	211	P	V
		11490	47.47	-6.53	54	57.05	38.08	13.74	61.4	100	211	A	V
		17235	56.93	-11.27	68.2	56.63	40.96	17.13	57.79	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	60.68	-13.32	74	70.2	38.2	13.81	61.53	100	179	P	H
		11570	50.17	-3.83	54	59.69	38.2	13.81	61.53	100	179	A	H
		17355	59.26	-8.94	68.2	58.44	40.89	17.41	57.48	100	0	P	H
		11570	56.51	-17.49	74	66.03	38.2	13.81	61.53	100	209	P	V
		11570	45.25	-8.75	54	54.77	38.2	13.81	61.53	100	209	A	V
		17355	55.18	-13.02	68.2	54.36	40.89	17.41	57.48	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	58.27	-15.73	74	67.77	38.29	13.88	61.67	100	231	P	H
		11650	49.52	-4.48	54	59.02	38.29	13.88	61.67	100	231	A	H
		17475	55.09	-13.11	68.2	53.73	40.82	17.7	57.16	100	0	P	H
		11650	52.78	-21.22	74	62.28	38.29	13.88	61.67	100	210	P	V
		11650	45.56	-8.44	54	55.06	38.29	13.88	61.67	100	210	A	V
		17475	52.12	-16.08	68.2	50.76	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5638.6	58.91	-9.29	68.2	43.39	34.72	10.31	29.51	103	124	P	H
		5697	74.03	-28.96	102.99	58.43	34.8	10.33	29.53	103	124	P	H
		5719.2	84.08	-26.5	110.58	68.42	34.86	10.34	29.54	103	124	P	H
		5724.4	84.58	-36.25	120.83	68.92	34.86	10.34	29.54	103	124	P	H
	*	5755	112.17	-	-	96.47	34.91	10.35	29.56	103	124	P	H
	*	5755	104.75	-	-	89.05	34.91	10.35	29.56	103	124	A	H
		5853	60.48	-54.88	115.36	44.65	35.05	10.38	29.6	103	124	P	H
		5857.8	59.76	-50.25	110.01	43.92	35.08	10.38	29.62	103	124	P	H
802.11n		5879.8	55.82	-45.81	101.63	39.95	35.11	10.38	29.62	103	124	P	H
HT40		5935.8	55.14	-13.06	68.2	39.22	35.19	10.39	29.66	103	124	P	H
CH 151		5643	55.49	-12.71	68.2	39.97	34.72	10.31	29.51	382	84	P	V
5755MHz		5696.6	69.82	-32.87	102.69	54.22	34.8	10.33	29.53	382	84	P	V
		5718.2	80.81	-29.49	110.3	65.15	34.86	10.34	29.54	382	84	P	V
		5721.2	84.14	-29.4	113.54	68.48	34.86	10.34	29.54	382	84	P	V
	*	5755	110.26	-	-	94.56	34.91	10.35	29.56	382	84	P	V
	*	5755	102.86	-	-	87.16	34.91	10.35	29.56	382	84	A	V
		5854.8	58.78	-52.48	111.26	42.92	35.08	10.38	29.6	382	84	P	V
		5869	60.18	-46.7	106.88	44.34	35.08	10.38	29.62	382	84	P	V
		5890.2	58.94	-34.98	93.92	43.06	35.13	10.38	29.63	382	84	P	V
		5938.6	54.44	-13.76	68.2	38.49	35.22	10.39	29.66	382	84	P	V

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5640	55.46	-12.74	68.2	39.94	34.72	10.31	29.51	100	124	P	H
		5696	61.41	-40.84	102.25	45.81	34.8	10.33	29.53	100	124	P	H
		5716	66.99	-42.69	109.68	51.36	34.83	10.34	29.54	100	124	P	H
		5723.4	67.04	-51.51	118.55	51.38	34.86	10.34	29.54	100	124	P	H
	*	5795	111.27	-	-	95.51	34.97	10.37	29.58	100	124	P	H
	*	5795	103.81	-	-	88.05	34.97	10.37	29.58	100	124	A	H
		5850	73.42	-48.78	122.2	57.59	35.05	10.38	29.6	100	124	P	H
		5857	73.07	-37.17	110.24	57.21	35.08	10.38	29.6	100	124	P	H
802.11n		5877.2	64.96	-38.61	103.57	49.09	35.11	10.38	29.62	100	124	P	H
HT40		5936.4	56.05	-12.15	68.2	40.13	35.19	10.39	29.66	100	124	P	H
CH 159		5628.4	54.33	-13.87	68.2	38.85	34.69	10.3	29.51	398	94	P	V
5795MHz		5696.8	59.33	-43.51	102.84	43.73	34.8	10.33	29.53	398	94	P	V
		5716.8	64.43	-45.48	109.91	48.8	34.83	10.34	29.54	398	94	P	V
		5723.6	63.7	-55.31	119.01	48.04	34.86	10.34	29.54	398	94	P	V
	*	5795	110.4	-	-	94.64	34.97	10.37	29.58	398	94	P	V
	*	5795	102.81	-	-	87.05	34.97	10.37	29.58	398	94	A	V
		5850	67.2	-55	122.2	51.37	35.05	10.38	29.6	398	94	P	V
		5855	66.96	-43.84	110.8	51.1	35.08	10.38	29.6	398	94	P	V
		5888.8	61.99	-32.97	94.96	46.11	35.13	10.38	29.63	398	94	P	V
		5930.8	55.7	-12.5	68.2	39.76	35.19	10.39	29.64	398	94	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	58.28	-15.72	74	67.85	38.1	13.75	61.42	100	179	P	H
		11510	48.55	-5.45	54	58.12	38.1	13.75	61.42	100	179	A	H
		17265	54.06	-14.14	68.2	53.64	40.94	17.19	57.71	100	0	P	H
		11510	54.3	-19.7	74	63.87	38.1	13.75	61.42	100	211	P	V
		11510	44.96	-9.04	54	54.53	38.1	13.75	61.42	100	211	A	V
		17265	51.97	-16.23	68.2	51.55	40.94	17.19	57.71	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	57.19	-16.81	74	66.7	38.22	13.83	61.56	100	180	P	H
		11590	48.63	-5.37	54	58.14	38.22	13.83	61.56	100	180	A	H
		17385	53.07	-15.13	68.2	52.12	40.87	17.48	57.4	100	0	P	H
		11590	51.73	-22.27	74	61.24	38.22	13.83	61.56	100	0	P	V
		11590	43.02	-10.98	54	52.53	38.22	13.83	61.56	100	0	P	V
		17385	49.87	-18.33	68.2	48.92	40.87	17.48	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5649.4	66.43	-1.77	68.2	50.91	34.72	10.31	29.51	100	120	P	H
		5651.2	67.98	-1.11	69.09	52.43	34.75	10.31	29.51	100	120	P	H
		5716.2	85.71	-24.03	109.74	70.08	34.83	10.34	29.54	100	120	P	H
		5720.2	85.9	-25.36	111.26	70.24	34.86	10.34	29.54	100	120	P	H
	*	5775	109.64	-	-	93.91	34.94	10.36	29.57	100	120	P	H
	*	5775	100.33	-	-	84.6	34.94	10.36	29.57	100	120	A	H
		5850.2	80.87	-40.87	121.74	65.04	35.05	10.38	29.6	100	120	P	H
		5855.4	80.18	-30.51	110.69	64.32	35.08	10.38	29.6	100	120	P	H
802.11ac		5879.2	72.74	-29.34	102.08	56.87	35.11	10.38	29.62	100	120	P	H
VHT80		5927.2	62.91	-5.29	68.2	46.97	35.19	10.39	29.64	100	120	P	H
CH 155		5649.4	63.59	-4.61	68.2	48.07	34.72	10.31	29.51	400	80	P	V
5775MHz		5700	76.05	-29.15	105.2	60.45	34.8	10.33	29.53	400	80	P	V
		5719.2	81.7	-28.88	110.58	66.04	34.86	10.34	29.54	400	80	P	V
		5722.2	82.92	-32.9	115.82	67.26	34.86	10.34	29.54	400	80	P	V
	*	5775	107.41	-	-	91.68	34.94	10.36	29.57	400	80	P	V
	*	5775	99.97	-	-	84.24	34.94	10.36	29.57	400	80	A	V
		5851.4	77.55	-41.46	119.01	61.72	35.05	10.38	29.6	400	80	P	V
		5858	77.52	-32.44	109.96	61.68	35.08	10.38	29.62	400	80	P	V
		5877.6	72.29	-30.98	103.27	56.42	35.11	10.38	29.62	400	80	P	V
		5925.2	65.4	-2.8	68.2	49.46	35.19	10.39	29.64	400	80	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 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.
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		11550	54.59	-19.41	74	64.12	38.17	13.79	61.49	100	184	P	H
		11550	47.05	-6.95	54	56.58	38.17	13.79	61.49	100	184	A	H
		17325	52.48	-15.72	68.2	51.79	40.91	17.34	57.56	100	0	P	H
		11550	48.38	-25.62	74	57.91	38.17	13.79	61.49	100	0	P	V
		17325	50.05	-18.15	68.2	49.36	40.91	17.34	57.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5642.8	56.44	-11.76	68.2	40.92	34.72	10.31	29.51	105	121	P	H
		5699.6	69.29	-35.62	104.91	53.69	34.8	10.33	29.53	105	121	P	H
		5720	83.49	-27.31	110.8	67.83	34.86	10.34	29.54	105	121	P	H
		5725	89.8	-32.4	122.2	74.14	34.86	10.34	29.54	105	121	P	H
	*	5745	121.17	-	-	105.49	34.89	10.35	29.56	105	121	P	H
	*	5745	113.73	-	-	98.05	34.89	10.35	29.56	105	121	A	H
		5624	54.76	-13.44	68.2	39.26	34.69	10.3	29.49	400	72	P	V
		5698	62.96	-40.77	103.73	47.36	34.8	10.33	29.53	400	72	P	V
		5719.8	80.94	-29.8	110.74	65.28	34.86	10.34	29.54	400	72	P	V
		5725	87.24	-34.96	122.2	71.58	34.86	10.34	29.54	400	72	P	V
	*	5745	117.16	-	-	101.48	34.89	10.35	29.56	400	72	P	V
	*	5745	109.96	-	-	94.28	34.89	10.35	29.56	400	72	A	V

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 157 5785MHz		5635.4	56.02	-12.18	68.2	40.51	34.72	10.3	29.51	100	122	P	H
		5693.4	57.16	-43.17	100.33	41.56	34.8	10.33	29.53	100	122	P	H
		5712.2	60.69	-47.93	108.62	45.07	34.83	10.33	29.54	100	122	P	H
		5720.4	64.19	-47.52	111.71	48.53	34.86	10.34	29.54	100	122	P	H
	*	5785	118.54	-	-	102.82	34.94	10.36	29.58	100	122	P	H
	*	5785	111.65	-	-	95.93	34.94	10.36	29.58	100	122	A	H
		5850.4	59.53	-61.76	121.29	43.7	35.05	10.38	29.6	100	122	P	H
		5860.8	58.41	-50.76	109.17	42.57	35.08	10.38	29.62	100	122	P	H
		5920.6	55.7	-15.74	71.44	39.79	35.16	10.39	29.64	100	122	P	H
		5926.8	54.98	-13.22	68.2	39.04	35.19	10.39	29.64	100	122	P	H
		5627.2	55.48	-12.72	68.2	39.98	34.69	10.3	29.49	400	86	P	V
		5686.2	55.53	-39.49	95.02	39.94	34.8	10.32	29.53	400	86	P	V
		5713.2	57.73	-51.17	108.9	42.1	34.83	10.34	29.54	400	86	P	V
		5722.6	60.57	-56.16	116.73	44.91	34.86	10.34	29.54	400	86	P	V
	*	5785	116.85	-	-	101.13	34.94	10.36	29.58	400	86	P	V
	*	5785	108.75	-	-	93.03	34.94	10.36	29.58	400	86	A	V
		5852.8	59.54	-56.28	115.82	43.71	35.05	10.38	29.6	400	86	P	V
		5855.2	56.89	-53.85	110.74	41.03	35.08	10.38	29.6	400	86	P	V
		5889.6	56.06	-38.3	94.36	40.18	35.13	10.38	29.63	400	86	P	V
		5925.4	54.92	-13.28	68.2	38.98	35.19	10.39	29.64	400	86	P	V

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 165 5825MHz	*	5825	117.82	-	-	102.02	35.02	10.37	29.59	101	122	P	H
	*	5825	110.03	-	-	94.23	35.02	10.37	29.59	101	122	A	H
		5850.4	84.09	-37.2	121.29	68.26	35.05	10.38	29.6	101	122	P	H
		5855	75.81	-34.99	110.8	59.95	35.08	10.38	29.6	101	122	P	H
		5876	62.32	-42.14	104.46	46.45	35.11	10.38	29.62	101	122	P	H
		5926.6	56.3	-11.9	68.2	40.36	35.19	10.39	29.64	101	122	P	H
	*	5825	115.88	-	-	100.08	35.02	10.37	29.59	389	86	P	V
	*	5825	108.55	-	-	92.75	35.02	10.37	29.59	389	86	A	V
		5850.6	79.09	-41.74	120.83	63.26	35.05	10.38	29.6	389	86	P	V
		5856	73.38	-37.14	110.52	57.52	35.08	10.38	29.6	389	86	P	V
		5878.2	61.38	-41.44	102.82	45.51	35.11	10.38	29.62	389	86	P	V
		5938	54.58	-13.62	68.2	38.66	35.19	10.39	29.66	389	86	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 149 5745MHz		11490	62.9	-11.1	74	72.48	38.08	13.74	61.4	101	181	P	H
		11490	53.29	-0.71	54	62.87	38.08	13.74	61.4	101	181	A	H
		17235	59.71	-8.49	68.2	59.41	40.96	17.13	57.79	100	0	P	H
		11490	59.31	-14.69	74	68.89	38.08	13.74	61.4	100	247	P	V
		11490	51.18	-2.82	54	60.76	38.08	13.74	61.4	100	247	A	V
		17235	57.75	-10.45	68.2	57.45	40.96	17.13	57.79	100	0	P	V
802.11a CH 157 5785MHz		11570	62.63	-11.37	74	72.15	38.2	13.81	61.53	100	179	P	H
		11570	53.32	-0.68	54	62.84	38.2	13.81	61.53	100	179	A	H
		17355	60.68	-7.52	68.2	59.86	40.89	17.41	57.48	100	0	P	H
		11570	59.97	-14.03	74	69.49	38.2	13.81	61.53	100	246	P	V
		11570	50.63	-3.37	54	60.15	38.2	13.81	61.53	100	246	A	V
		17355	57.7	-10.5	68.2	56.88	40.89	17.41	57.48	100	0	P	V
802.11a CH 165 5825MHz		11650	62.06	-11.94	74	71.56	38.29	13.88	61.67	100	181	P	H
		11650	52.61	-1.39	54	62.11	38.29	13.88	61.67	100	181	A	H
		17475	59.7	-8.5	68.2	58.34	40.82	17.7	57.16	100	0	P	H
		11650	61.04	-12.96	74	70.54	38.29	13.88	61.67	100	283	P	V
		11650	51.08	-2.92	54	60.58	38.29	13.88	61.67	100	283	A	V
		17475	54.03	-14.17	68.2	52.67	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	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)
		5639.4	56.51	-11.69	68.2	40.99	34.72	10.31	29.51	102	123	P	H
		5699	68.56	-35.9	104.46	52.96	34.8	10.33	29.53	102	123	P	H
		5717.6	80.79	-29.34	110.13	65.13	34.86	10.34	29.54	102	123	P	H
		5722.8	88.22	-28.96	117.18	72.56	34.86	10.34	29.54	102	123	P	H
802.11n	*	5745	118.75	-	-	103.07	34.89	10.35	29.56	102	123	P	H
HT20	*	5745	111.17	-	-	95.49	34.89	10.35	29.56	102	123	A	H
CH 149		5613.6	53.8	-14.4	68.2	38.32	34.67	10.3	29.49	363	78	P	V
5745MHz		5699.4	64.16	-40.6	104.76	48.56	34.8	10.33	29.53	363	78	P	V
		5719.2	77.72	-32.86	110.58	62.06	34.86	10.34	29.54	363	78	P	V
		5723.6	86.66	-32.35	119.01	71	34.86	10.34	29.54	363	78	P	V
	*	5745	116.16	-	-	100.48	34.89	10.35	29.56	363	78	P	V
	*	5745	108.36	-	-	92.68	34.89	10.35	29.56	363	78	A	V

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)
		5614.2	55.17	-13.03	68.2	39.69	34.67	10.3	29.49	101	122	P	H
		5676.8	56.66	-31.41	88.07	41.08	34.78	10.32	29.52	101	122	P	H
		5719	61.23	-49.29	110.52	45.57	34.86	10.34	29.54	101	122	P	H
		5724.2	63.03	-57.35	120.38	47.37	34.86	10.34	29.54	101	122	P	H
	*	5785	116.37	-	-	100.65	34.94	10.36	29.58	101	122	P	H
	*	5785	109.14	-	-	93.42	34.94	10.36	29.58	101	122	A	H
		5851.2	59.7	-59.76	119.46	43.87	35.05	10.38	29.6	101	122	P	H
		5858.4	56.35	-53.5	109.85	40.51	35.08	10.38	29.62	101	122	P	H
802.11n		5887.2	55.84	-40.3	96.14	39.98	35.11	10.38	29.63	101	122	P	H
HT20		5947	53.74	-14.46	68.2	37.79	35.22	10.39	29.66	101	122	P	H
CH 157		5609	54.18	-14.02	68.2	38.71	34.67	10.29	29.49	394	85	P	V
5785MHz		5694.2	56.21	-44.71	100.92	40.61	34.8	10.33	29.53	394	85	P	V
		5717.2	57.31	-52.71	110.02	41.68	34.83	10.34	29.54	394	85	P	V
		5724.6	58.31	-62.98	121.29	42.65	34.86	10.34	29.54	394	85	P	V
	*	5785	114.97	-	-	99.25	34.94	10.36	29.58	394	85	P	V
	*	5785	107.27	-	-	91.55	34.94	10.36	29.58	394	85	A	V
		5851.6	55.85	-62.7	118.55	40.02	35.05	10.38	29.6	394	85	P	V
		5855.2	58.34	-52.4	110.74	42.48	35.08	10.38	29.6	394	85	P	V
		5884.8	55.26	-42.66	97.92	39.4	35.11	10.38	29.63	394	85	P	V
		5939.2	54.87	-13.33	68.2	38.92	35.22	10.39	29.66	394	85	P	V

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)
	*	5825	115.38	-	-	99.58	35.02	10.37	29.59	102	122	P	H
	*	5825	108.59	-	-	92.79	35.02	10.37	29.59	102	122	A	H
		5850	82.77	-39.43	122.2	66.94	35.05	10.38	29.6	102	122	P	H
		5855.4	75.77	-34.92	110.69	59.91	35.08	10.38	29.6	102	122	P	H
802.11n		5876.6	67.04	-36.97	104.01	51.17	35.11	10.38	29.62	102	122	P	H
HT20		5927.2	54.47	-13.73	68.2	38.53	35.19	10.39	29.64	102	122	P	H
CH 165	*	5825	114.44	-	-	98.64	35.02	10.37	29.59	390	88	P	V
5825MHz	*	5825	107.05	-	-	91.25	35.02	10.37	29.59	390	88	A	V
		5850.4	79.24	-42.05	121.29	63.41	35.05	10.38	29.6	390	88	P	V
		5856.6	75.6	-34.75	110.35	59.74	35.08	10.38	29.6	390	88	P	V
		5875.4	63.78	-41.12	104.9	47.91	35.11	10.38	29.62	390	88	P	V
		5932.2	56	-12.2	68.2	40.06	35.19	10.39	29.64	390	88	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	61.27	-12.73	74	70.85	38.08	13.74	61.4	100	182	P	H
		11490	51.46	-2.54	54	61.04	38.08	13.74	61.4	100	182	A	H
		17235	59.06	-9.14	68.2	58.76	40.96	17.13	57.79	100	0	P	H
		11490	59.91	-14.09	74	69.49	38.08	13.74	61.4	100	0	P	V
		11490	49.91	-4.09	54	59.49	38.08	13.74	61.4	100	0	A	V
		17235	56.02	-12.18	68.2	55.72	40.96	17.13	57.79	100	0	P	V
802.11n HT20 CH 157 5785MHz		11570	60.62	-13.38	74	70.14	38.2	13.81	61.53	100	174	P	H
		11570	51.53	-2.47	54	61.05	38.2	13.81	61.53	100	174	A	H
		17355	59.61	-8.59	68.2	58.79	40.89	17.41	57.48	100	0	P	H
		11570	58.89	-15.11	74	68.41	38.2	13.81	61.53	100	257	P	V
		11570	48.92	-5.08	54	58.44	38.2	13.81	61.53	100	257	A	V
		17355	56.83	-11.37	68.2	56.01	40.89	17.41	57.48	100	0	P	V
802.11n HT20 CH 165 5825MHz		11650	60.75	-13.25	74	70.25	38.29	13.88	61.67	100	174	P	H
		11650	51.32	-2.68	54	60.82	38.29	13.88	61.67	100	174	A	H
		17475	56.35	-11.85	68.2	54.99	40.82	17.7	57.16	100	0	P	H
		11650	58.83	-15.17	74	68.33	38.29	13.88	61.67	100	248	P	V
		11650	49.64	-4.36	54	59.14	38.29	13.88	61.67	100	248	A	V
		17475	53.5	-14.7	68.2	52.14	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)
		5638.6	59.14	-9.06	68.2	43.62	34.72	10.31	29.51	105	121	P	H
		5700	76.12	-29.08	105.2	60.52	34.8	10.33	29.53	105	121	P	H
		5719.8	88.36	-22.38	110.74	72.7	34.86	10.34	29.54	105	121	P	H
		5722.8	90.64	-26.54	117.18	74.98	34.86	10.34	29.54	105	121	P	H
	*	5755	114.56	-	-	98.86	34.91	10.35	29.56	105	121	P	H
	*	5755	106.74	-	-	91.04	34.91	10.35	29.56	105	121	A	H
		5850.6	65.18	-55.65	120.83	49.35	35.05	10.38	29.6	105	121	P	H
		5855.6	63.07	-47.56	110.63	47.21	35.08	10.38	29.6	105	121	P	H
802.11n		5882.6	58.21	-41.35	99.56	42.34	35.11	10.38	29.62	105	121	P	H
HT40		5932	55.13	-13.07	68.2	39.19	35.19	10.39	29.64	105	121	P	H
CH 151		5650	58.03	-10.17	68.2	42.48	34.75	10.31	29.51	380	84	P	V
5755MHz		5699.8	71.9	-33.15	105.05	56.3	34.8	10.33	29.53	380	84	P	V
		5718.2	86.65	-23.65	110.3	70.99	34.86	10.34	29.54	380	84	P	V
		5721.6	88.03	-26.42	114.45	72.37	34.86	10.34	29.54	380	84	P	V
	*	5755	111.77	-	-	96.07	34.91	10.35	29.56	380	84	P	V
	*	5755	103.19	-	-	87.49	34.91	10.35	29.56	380	84	A	V
		5851.4	60.46	-58.55	119.01	44.63	35.05	10.38	29.6	380	84	P	V
		5866	60.77	-46.95	107.72	44.93	35.08	10.38	29.62	380	84	P	V
		5886	57.65	-39.38	97.03	41.79	35.11	10.38	29.63	380	84	P	V
		5942.4	54.55	-13.65	68.2	38.6	35.22	10.39	29.66	380	84	P	V

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)
		5629.8	55.87	-12.33	68.2	40.39	34.69	10.3	29.51	100	122	P	H
		5697	65.67	-37.32	102.99	50.07	34.8	10.33	29.53	100	122	P	H
		5717.6	70.61	-39.52	110.13	54.95	34.86	10.34	29.54	100	122	P	H
		5723.2	71.14	-46.96	118.1	55.48	34.86	10.34	29.54	100	122	P	H
	*	5795	114.15	-	-	98.39	34.97	10.37	29.58	100	122	P	H
	*	5795	106	-	-	90.24	34.97	10.37	29.58	100	122	A	H
		5850.6	77.32	-43.51	120.83	61.49	35.05	10.38	29.6	100	122	P	H
		5857.6	75.84	-34.23	110.07	59.98	35.08	10.38	29.6	100	122	P	H
802.11n		5876	66.95	-37.51	104.46	51.08	35.11	10.38	29.62	100	122	P	H
HT40		5926.4	55.61	-12.59	68.2	39.67	35.19	10.39	29.64	100	122	P	H
CH 159		5647.2	53.78	-14.42	68.2	38.26	34.72	10.31	29.51	375	74	P	V
5795MHz		5697.2	61.38	-41.76	103.14	45.78	34.8	10.33	29.53	375	74	P	V
		5717.6	63.46	-46.67	110.13	47.8	34.86	10.34	29.54	375	74	P	V
		5721.2	67.8	-45.74	113.54	52.14	34.86	10.34	29.54	375	74	P	V
	*	5795	111.2	-	-	95.44	34.97	10.37	29.58	375	74	P	V
	*	5795	103.47	-	-	87.71	34.97	10.37	29.58	375	74	A	V
		5851.4	72.16	-46.85	119.01	56.33	35.05	10.38	29.6	375	74	P	V
		5857	72.31	-37.93	110.24	56.45	35.08	10.38	29.6	375	74	P	V
		5877.2	65.71	-37.86	103.57	49.84	35.11	10.38	29.62	375	74	P	V
		5931	55.64	-12.56	68.2	39.7	35.19	10.39	29.64	375	74	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	56.92	-17.08	74	66.49	38.1	13.75	61.42	100	151	P	H
		11510	48.62	-5.38	54	58.19	38.1	13.75	61.42	100	151	A	H
		17265	55.46	-12.74	68.2	55.04	40.94	17.19	57.71	100	0	P	H
		11510	56.93	-17.07	74	66.5	38.1	13.75	61.42	100	247	P	V
		11510	47.92	-6.08	54	57.49	38.1	13.75	61.42	100	247	A	V
		17265	52.88	-15.32	68.2	52.46	40.94	17.19	57.71	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	58.1	-15.9	74	67.61	38.22	13.83	61.56	100	149	P	H
		11590	48.92	-5.08	54	58.43	38.22	13.83	61.56	100	149	A	H
		17385	53.82	-14.38	68.2	52.87	40.87	17.48	57.4	100	0	P	H
		11590	56.87	-17.13	74	66.38	38.22	13.83	61.56	100	257	P	V
		11590	47.33	-6.67	54	56.84	38.22	13.83	61.56	100	257	A	V
		17385	50.72	-17.48	68.2	49.77	40.87	17.48	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

<TXBF Mode>

Band 4 5725~5850MHz

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)
		5647.8	56.7	-11.5	68.2	41.18	34.72	10.31	29.51	100	120	P	H
		5698.6	70.46	-33.71	104.17	54.86	34.8	10.33	29.53	100	120	P	H
		5720	86.28	-24.52	110.8	70.62	34.86	10.34	29.54	100	120	P	H
		5725	93.76	-28.44	122.2	78.1	34.86	10.34	29.54	100	120	P	H
802.11ac	*	5745	118.64	-	-	102.96	34.89	10.35	29.56	100	120	P	H
VHT20	*	5745	110.41	-	-	94.73	34.89	10.35	29.56	100	120	A	H
CH 149		5623.2	55.33	-12.87	68.2	39.83	34.69	10.3	29.49	388	86	P	V
5745MHz		5699.8	67.62	-37.43	105.05	52.02	34.8	10.33	29.53	388	86	P	V
		5719.8	80.97	-29.77	110.74	65.31	34.86	10.34	29.54	388	86	P	V
		5724.2	90.03	-30.35	120.38	74.37	34.86	10.34	29.54	388	86	P	V
	*	5745	116.12	-	-	100.44	34.89	10.35	29.56	388	86	P	V
	*	5745	108.65	-	-	92.97	34.89	10.35	29.56	388	86	A	V

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)
		5609.4	55.4	-12.8	68.2	39.93	34.67	10.29	29.49	100	120	P	H
		5659.8	57.41	-18.07	75.48	41.87	34.75	10.31	29.52	100	120	P	H
		5720	64.75	-46.05	110.8	49.09	34.86	10.34	29.54	100	120	P	H
		5720.2	64.76	-46.5	111.26	49.1	34.86	10.34	29.54	100	120	P	H
	*	5785	117.9	-	-	102.18	34.94	10.36	29.58	100	120	P	H
	*	5785	109.77	-	-	94.05	34.94	10.36	29.58	100	120	A	H
		5854.8	61.33	-49.93	111.26	45.47	35.08	10.38	29.6	100	120	P	H
		5857.2	60.74	-49.44	110.18	44.88	35.08	10.38	29.6	100	120	P	H
802.11ac		5883.6	56.12	-42.69	98.81	40.26	35.11	10.38	29.63	100	120	P	H
VHT20		5936.8	54.62	-13.58	68.2	38.7	35.19	10.39	29.66	100	120	P	H
CH 157		5640.8	54.92	-13.28	68.2	39.4	34.72	10.31	29.51	362	80	P	V
5785MHz		5697.2	55.03	-48.11	103.14	39.43	34.8	10.33	29.53	362	80	P	V
		5719.2	60.47	-50.11	110.58	44.81	34.86	10.34	29.54	362	80	P	V
		5720.6	64.53	-47.64	112.17	48.87	34.86	10.34	29.54	362	80	P	V
	*	5785	118.63	-	-	102.91	34.94	10.36	29.58	362	80	P	V
	*	5785	110.49	-	-	94.77	34.94	10.36	29.58	362	80	A	V
		5850.4	58.4	-62.89	121.29	42.57	35.05	10.38	29.6	362	80	P	V
		5855.6	59.65	-50.98	110.63	43.79	35.08	10.38	29.6	362	80	P	V
		5915.8	56.65	-18.33	74.98	40.74	35.16	10.39	29.64	362	80	P	V
		5933.6	54.15	-14.05	68.2	38.21	35.19	10.39	29.64	362	80	P	V

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)
802.11ac VHT20 CH 165 5825MHz	*	5825	116.11	-	-	100.31	35.02	10.37	29.59	100	110	P	H
	*	5825	108.32	-	-	92.52	35.02	10.37	29.59	100	110	A	H
		5853.6	74.28	-39.71	113.99	58.42	35.08	10.38	29.6	100	110	P	H
		5857	71.46	-38.78	110.24	55.6	35.08	10.38	29.6	100	110	P	H
		5877	61.06	-42.65	103.71	45.19	35.11	10.38	29.62	100	110	P	H
		5941.2	55.33	-12.87	68.2	39.38	35.22	10.39	29.66	100	110	P	H
	*	5825	114.43	-	-	98.63	35.02	10.37	29.59	356	80	P	V
	*	5825	105.92	-	-	90.12	35.02	10.37	29.59	356	80	A	V
		5850	74.97	-47.23	122.2	59.14	35.05	10.38	29.6	356	80	P	V
		5856	71.62	-38.9	110.52	55.76	35.08	10.38	29.6	356	80	P	V
		5875	57.46	-47.74	105.2	41.59	35.11	10.38	29.62	356	80	P	V
		5926.6	56.56	-11.64	68.2	40.62	35.19	10.39	29.64	356	80	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ac VHT20 CH 149 5745MHz		11490	61.47	-12.53	74	71.05	38.08	13.74	61.4	100	180	P	H
		11490	50.99	-3.01	54	60.57	38.08	13.74	61.4	100	180	A	H
		17235	59.98	-8.22	68.2	59.68	40.96	17.13	57.79	100	0	P	H
		11490	56.91	-17.09	74	66.49	38.08	13.74	61.4	100	247	P	V
		11490	47.27	-6.73	54	56.85	38.08	13.74	61.4	100	247	A	V
		17235	57.17	-11.03	68.2	56.87	40.96	17.13	57.79	100	0	P	V
802.11ac VHT20 CH 157 5785MHz		11570	61.83	-12.17	74	71.35	38.2	13.81	61.53	100	180	P	H
		11570	51.1	-2.9	54	60.62	38.2	13.81	61.53	100	180	A	H
		17355	60.61	-7.59	68.2	59.79	40.89	17.41	57.48	100	0	P	H
		11570	57.54	-16.46	74	67.06	38.2	13.81	61.53	100	247	P	V
		11570	47	-7	54	56.52	38.2	13.81	61.53	100	247	A	V
		17355	55.65	-12.55	68.2	54.83	40.89	17.41	57.48	100	0	P	V
802.11ac VHT20 CH 165 5825MHz		11650	60.35	-13.65	74	69.85	38.29	13.88	61.67	100	180	P	H
		11650	49.99	-4.01	54	59.49	38.29	13.88	61.67	100	180	A	H
		17475	55.44	-12.76	68.2	54.08	40.82	17.7	57.16	100	0	P	H
		11650	57.08	-16.92	74	66.58	38.29	13.88	61.67	100	126	P	V
		11650	46.44	-7.56	54	55.94	38.29	13.88	61.67	100	126	A	V
		17475	54.15	-14.05	68.2	52.79	40.82	17.7	57.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (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)
		5648.4	61.89	-6.31	68.2	46.37	34.72	10.31	29.51	100	121	P	H
		5699.8	78.03	-27.02	105.05	62.43	34.8	10.33	29.53	100	121	P	H
		5719.4	90	-20.63	110.63	74.34	34.86	10.34	29.54	100	121	P	H
		5724.4	93.79	-27.04	120.83	78.13	34.86	10.34	29.54	100	121	P	H
	*	5755	115.51	-	-	99.81	34.91	10.35	29.56	100	121	P	H
	*	5755	108.12	-	-	92.42	34.91	10.35	29.56	100	121	A	H
		5850.8	61.42	-58.96	120.38	45.59	35.05	10.38	29.6	100	121	P	H
		5856.2	61.1	-49.36	110.46	45.24	35.08	10.38	29.6	100	121	P	H
802.11ac		5876.4	57.28	-46.88	104.16	41.41	35.11	10.38	29.62	100	121	P	H
VHT40		5933.2	55.1	-13.1	68.2	39.16	35.19	10.39	29.64	100	121	P	H
CH 151		5645.8	58.17	-10.03	68.2	42.65	34.72	10.31	29.51	366	79	P	V
5755MHz		5699.2	74.79	-29.82	104.61	59.19	34.8	10.33	29.53	366	79	P	V
		5719.8	86.28	-24.46	110.74	70.62	34.86	10.34	29.54	366	79	P	V
		5722.4	88.86	-27.41	116.27	73.2	34.86	10.34	29.54	366	79	P	V
	*	5755	112.92	-	-	97.22	34.91	10.35	29.56	366	79	P	V
	*	5755	104.45	-	-	88.75	34.91	10.35	29.56	366	79	A	V
		5851.6	60.66	-57.89	118.55	44.83	35.05	10.38	29.6	366	79	P	V
		5855.2	60.5	-50.24	110.74	44.64	35.08	10.38	29.6	366	79	P	V
		5877.6	57.31	-45.96	103.27	41.44	35.11	10.38	29.62	366	79	P	V
		5927.2	54.12	-14.08	68.2	38.18	35.19	10.39	29.64	366	79	P	V

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)
		5610.2	55.58	-12.62	68.2	40.11	34.67	10.29	29.49	100	121	P	H
		5690.4	62.63	-35.49	98.12	47.03	34.8	10.33	29.53	100	121	P	H
		5713.2	68.85	-40.05	108.9	53.22	34.83	10.34	29.54	100	121	P	H
		5723.2	69.45	-48.65	118.1	53.79	34.86	10.34	29.54	100	121	P	H
	*	5795	114.81	-	-	99.05	34.97	10.37	29.58	100	121	P	H
	*	5795	106.77	-	-	91.01	34.97	10.37	29.58	100	121	A	H
		5853.2	74.22	-40.68	114.9	58.39	35.05	10.38	29.6	100	121	P	H
		5855.6	71.9	-38.73	110.63	56.04	35.08	10.38	29.6	100	121	P	H
802.11ac		5880.4	65.27	-35.92	101.19	49.4	35.11	10.38	29.62	100	121	P	H
VHT40		5930.6	54.99	-13.21	68.2	39.05	35.19	10.39	29.64	100	121	P	H
CH 159		5609	55.33	-12.87	68.2	39.86	34.67	10.29	29.49	360	81	P	V
5795MHz		5698.8	60.39	-43.93	104.32	44.79	34.8	10.33	29.53	360	81	P	V
		5720	66.82	-43.98	110.8	51.16	34.86	10.34	29.54	360	81	P	V
		5724.6	69.38	-51.91	121.29	53.72	34.86	10.34	29.54	360	81	P	V
	*	5795	113.76	-	-	98	34.97	10.37	29.58	360	81	P	V
	*	5795	105.84	-	-	90.08	34.97	10.37	29.58	360	81	A	V
		5853.8	73.24	-40.3	113.54	57.38	35.08	10.38	29.6	360	81	P	V
		5858.6	72.85	-36.94	109.79	57.01	35.08	10.38	29.62	360	81	P	V
		5877.2	65.75	-37.82	103.57	49.88	35.11	10.38	29.62	360	81	P	V
		5938.4	55.97	-12.23	68.2	40.05	35.19	10.39	29.66	360	81	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ac VHT40 CH 151 5755MHz		11510	58.97	-15.03	74	68.54	38.1	13.75	61.42	100	179	P	H
		11510	48.68	-5.32	54	58.25	38.1	13.75	61.42	100	179	A	H
		17265	54.48	-13.72	68.2	54.06	40.94	17.19	57.71	100	0	P	H
		11510	56.05	-17.95	74	65.62	38.1	13.75	61.42	100	250	P	V
		11510	48.12	-5.88	54	57.69	38.1	13.75	61.42	100	250	A	V
		17265	53.66	-14.54	68.2	53.24	40.94	17.19	57.71	100	0	P	V
802.11ac VHT40 CH 159 5795MHz		11590	59.62	-14.38	74	69.13	38.22	13.83	61.56	100	179	P	H
		11590	49.9	-4.1	54	59.41	38.22	13.83	61.56	100	179	A	H
		17385	54.56	-13.64	68.2	53.61	40.87	17.48	57.4	100	0	P	H
		11590	54.68	-19.32	74	64.19	38.22	13.83	61.56	100	280	P	V
		11590	46.22	-7.78	54	55.73	38.22	13.83	61.56	100	280	A	V
		17385	51.89	-16.31	68.2	50.94	40.87	17.48	57.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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)
		5648.4	67.47	-0.73	68.2	51.95	34.72	10.31	29.51	101	124	P	H
		5653.2	68.07	-2.51	70.58	52.52	34.75	10.31	29.51	101	124	P	H
		5712.8	86.63	-22.16	108.79	71	34.83	10.34	29.54	101	124	P	H
		5720.6	88.02	-24.15	112.17	72.36	34.86	10.34	29.54	101	124	P	H
	*	5775	110.94	-	-	95.21	34.94	10.36	29.57	101	124	P	H
	*	5775	103.38	-	-	87.65	34.94	10.36	29.57	101	124	A	H
		5852.2	82.9	-34.28	117.18	67.07	35.05	10.38	29.6	101	124	P	H
		5855.6	83.48	-27.15	110.63	67.62	35.08	10.38	29.6	101	124	P	H
802.11ac		5922.6	64.77	-5.2	69.97	48.83	35.19	10.39	29.64	101	124	P	H
VHT80		5925.4	64.38	-3.82	68.2	48.44	35.19	10.39	29.64	101	124	P	H
CH 155		5648.6	64.27	-3.93	68.2	48.75	34.72	10.31	29.51	400	83	P	V
5775MHz		5651.6	63.1	-6.29	69.39	47.55	34.75	10.31	29.51	400	83	P	V
		5719.6	84.05	-26.64	110.69	68.39	34.86	10.34	29.54	400	83	P	V
		5722.6	83.71	-33.02	116.73	68.05	34.86	10.34	29.54	400	83	P	V
	*	5775	108.08	-	-	92.35	34.94	10.36	29.57	400	83	P	V
	*	5775	101.15	-	-	85.42	34.94	10.36	29.57	400	83	A	V
		5850.6	76.67	-44.16	120.83	60.84	35.05	10.38	29.6	400	83	P	V
		5857.6	78	-32.07	110.07	62.14	35.08	10.38	29.6	400	83	P	V
		5923.8	64.51	-4.57	69.08	48.57	35.19	10.39	29.64	400	83	P	V
		5926	63.47	-4.73	68.2	47.53	35.19	10.39	29.64	400	83	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 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)
802.11ac VHT80 CH 155 5775MHz		11550	56.02	-17.98	74	65.55	38.17	13.79	61.49	100	231	P	H
		11550	47.9	-6.1	54	57.43	38.17	13.79	61.49	100	231	A	H
		17325	49.27	-18.93	68.2	48.58	40.91	17.34	57.56	100	0	P	H
		11550	49.03	-24.97	74	58.56	38.17	13.79	61.49	100	0	P	V
		17325	46.84	-21.36	68.2	46.15	40.91	17.34	57.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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)
		5645.2	67.4	-0.8	68.2	51.88	34.72	10.31	29.51	100	114	P	H
		5650.4	66.71	-1.79	68.5	51.16	34.75	10.31	29.51	100	114	P	H
		5719.6	87.55	-23.14	110.69	71.89	34.86	10.34	29.54	100	114	P	H
		5722.2	88.28	-27.54	115.82	72.62	34.86	10.34	29.54	100	114	P	H
	*	5775	111.3	-	-	95.57	34.94	10.36	29.57	100	114	P	H
	*	5775	104.18	-	-	88.45	34.94	10.36	29.57	100	114	A	H
		5853.6	80.55	-33.44	113.99	64.69	35.08	10.38	29.6	100	114	P	H
		5855.6	81.39	-29.24	110.63	65.53	35.08	10.38	29.6	100	114	P	H
802.11ac		5876.4	74.16	-30	104.16	58.29	35.11	10.38	29.62	100	114	P	H
VHT80		5930.8	63.83	-4.37	68.2	47.89	35.19	10.39	29.64	100	114	P	H
CH 155		5631.8	63.97	-4.23	68.2	48.49	34.69	10.3	29.51	383	78	P	V
5775MHz		5651.4	64.69	-4.55	69.24	49.14	34.75	10.31	29.51	383	78	P	V
		5719.6	83.6	-27.09	110.69	67.94	34.86	10.34	29.54	383	78	P	V
		5721.4	83.81	-30.18	113.99	68.15	34.86	10.34	29.54	383	78	P	V
	*	5775	109.02	-	-	93.29	34.94	10.36	29.57	383	78	P	V
	*	5775	101.76	-	-	86.03	34.94	10.36	29.57	383	78	A	V
		5852	80.25	-37.39	117.64	64.42	35.05	10.38	29.6	383	78	P	V
		5857.8	78.16	-31.85	110.01	62.32	35.08	10.38	29.62	383	78	P	V
		5879.4	73.75	-28.18	101.93	57.88	35.11	10.38	29.62	383	78	P	V
		5925.4	62.98	-5.22	68.2	47.04	35.19	10.39	29.64	383	78	P	V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		11550	54.57	-19.43	74	64.1	38.17	13.79	61.49	100	182	P	H
		11550	47.74	-6.26	54	57.27	38.17	13.79	61.49	100	182	A	H
		17325	51.22	-16.98	68.2	50.53	40.91	17.34	57.56	100	0	P	H
		11550	50.95	-23.05	74	60.48	38.17	13.79	61.49	100	0	P	V
		11550	44.29	-9.71	54	53.82	38.17	13.51	61.49	100	0	P	V
		17325	47.64	-20.56	68.2	46.95	40.91	17.34	57.56	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 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)
5GHz 802.11a LF		60.78	21.92	-18.08	40	41.27	12.06	1.04	32.45	-	-	P	H
		167.97	27.78	-15.72	43.5	42.01	16.3	1.89	32.42	-	-	P	H
		269.49	32.64	-13.36	46	43.3	19.4	2.38	32.44	100	0	P	H
		329.4	32.03	-13.97	46	41.3	20.59	2.62	32.48	-	-	P	H
		388.9	28.32	-17.68	46	35.78	22.22	2.83	32.51	-	-	P	H
		972.7	32.48	-21.52	54	28.96	30.01	4.71	31.2	-	-	P	H
		59.97	25.7	-14.3	40	45.12	12	1.03	32.45	-	-	P	V
		167.97	25.77	-17.73	43.5	40	16.3	1.89	32.42	-	-	P	V
		270.57	25.44	-20.56	46	36.11	19.39	2.38	32.44	-	-	P	V
		318.2	29.77	-16.23	46	39.4	20.25	2.59	32.47	-	-	P	V
		720	28.54	-17.46	46	30.16	27.03	3.97	32.62	-	-	P	V
		911.8	32.45	-13.55	46	30.41	29.26	4.54	31.76	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac80 (LF @ 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)
5GHz 802.11ac80 LF		59.7	22.84	-17.16	40	42.26	12	1.03	32.45	-	-	P	H
		167.97	26.87	-16.63	43.5	41.1	16.3	1.89	32.42	-	-	P	H
		216.03	27.38	-18.62	46	41.4	16.3	2.1	32.42	-	-	P	H
		318.2	30.79	-15.21	46	40.42	20.25	2.59	32.47	-	-	P	H
		389.6	32.53	-13.47	46	39.96	22.25	2.83	32.51	100	0	P	H
		479.9	29.58	-16.42	46	35.08	23.96	3.14	32.6	-	-	P	H
		59.97	24.12	-15.88	40	43.54	12	1.03	32.45	-	-	P	V
		167.97	25.09	-18.41	43.5	39.32	16.3	1.89	32.42	-	-	P	V
		264.09	26.04	-19.96	46	36.49	19.64	2.35	32.44	-	-	P	V
		319.6	29.85	-16.15	46	39.41	20.31	2.6	32.47	-	-	P	V
		514.2	27.41	-18.59	46	32.26	24.51	3.27	32.63	-	-	P	V
		871.9	31.21	-14.79	46	29.99	28.83	4.41	32.02	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

Test Engineer :	JC Liang and Master Huang	**Temperature :**	22~26°C
		Relative Humidity :	50~54%

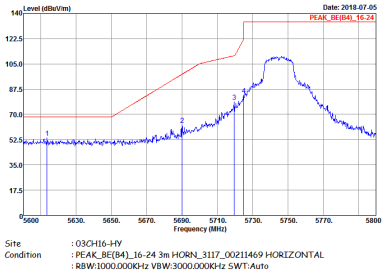
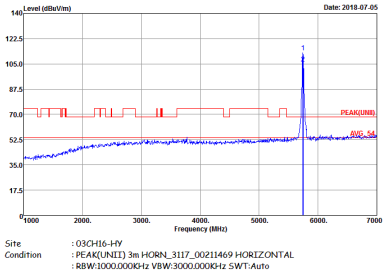
Note symbol

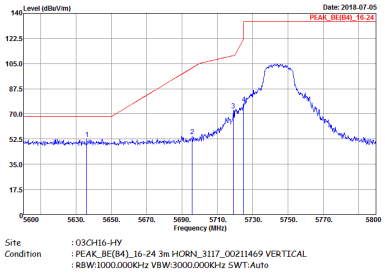
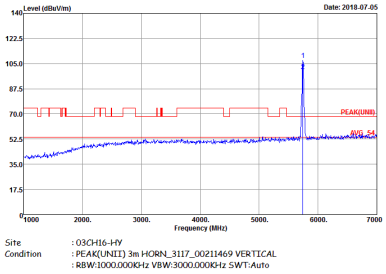
-L	**Low channel location**
-R	**High channel location**

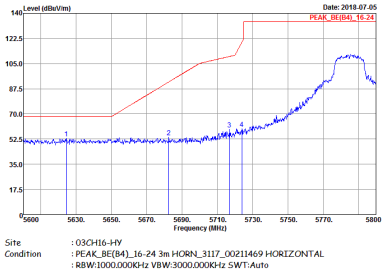
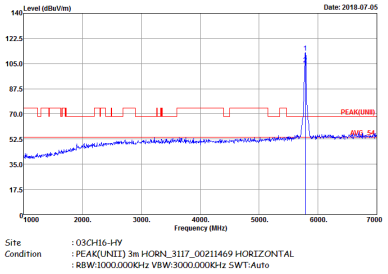
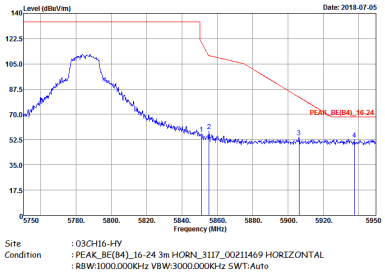
<CDD Mode>

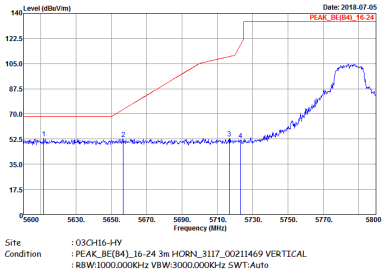
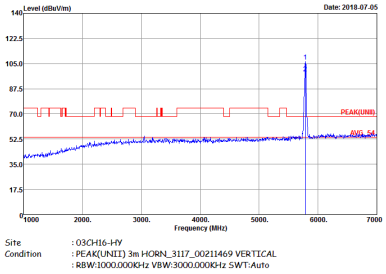
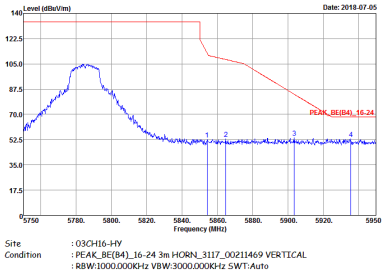
Band 4 - 5725~5850MHz

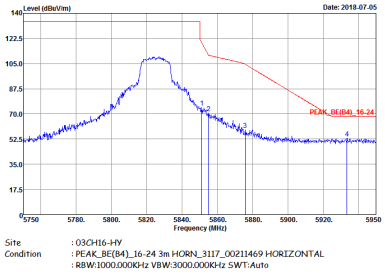
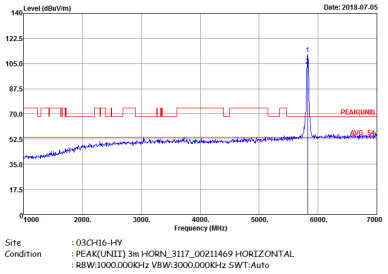
WIFI 802.11a (Band Edge @ 3m)

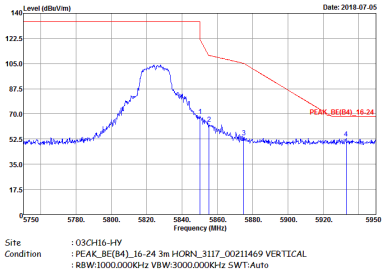
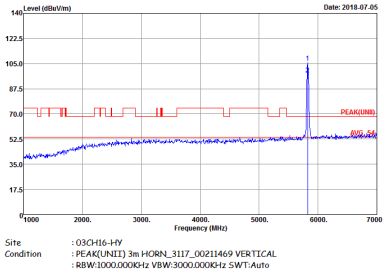
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

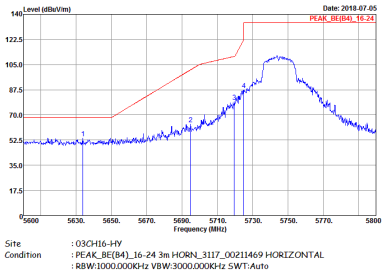
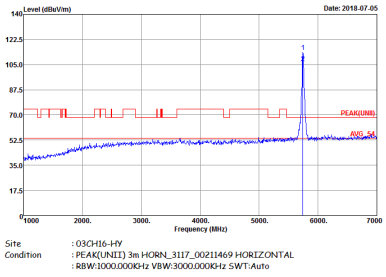
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

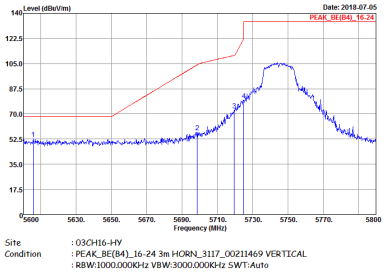
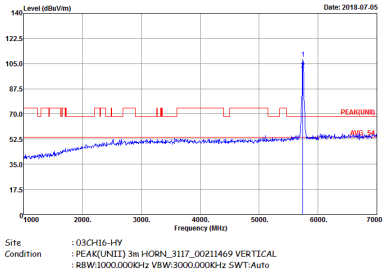
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

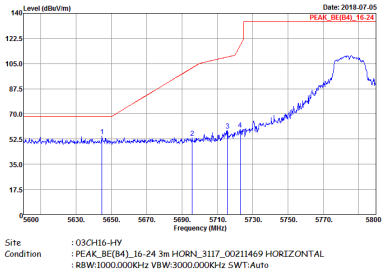
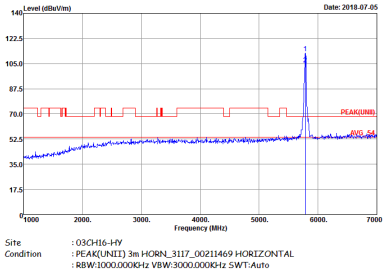
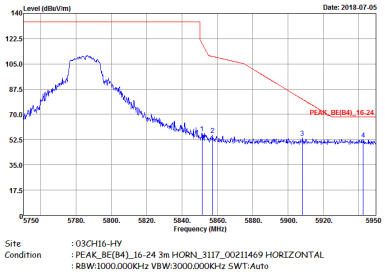
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

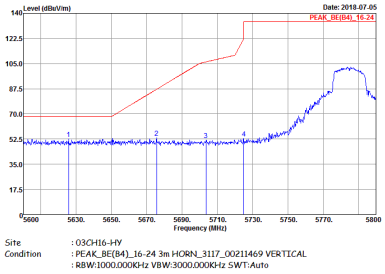
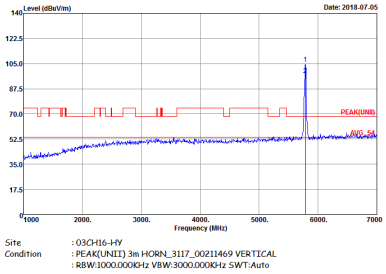
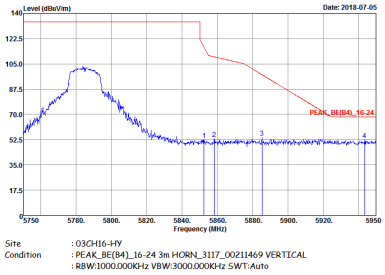
Band 4 5725~5850MHz

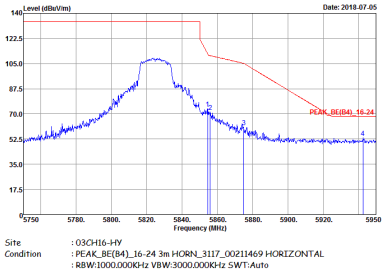
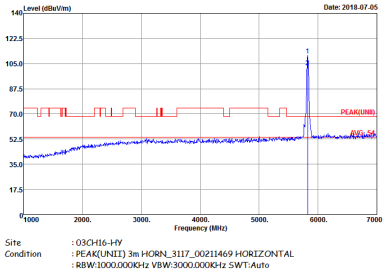
WIFI 802.11n HT20 (Band Edge @ 3m)

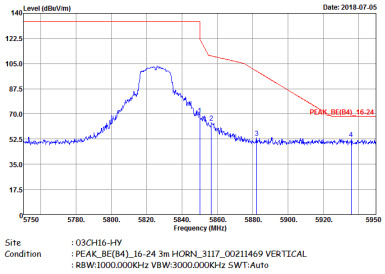
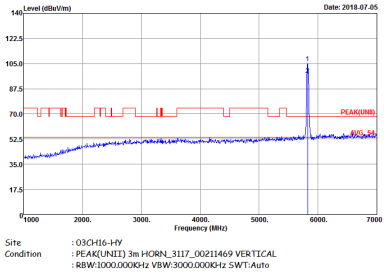
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak		

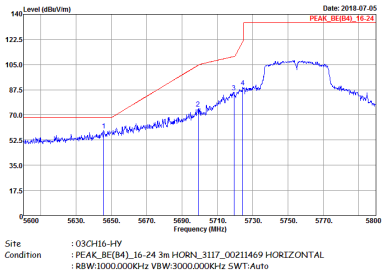
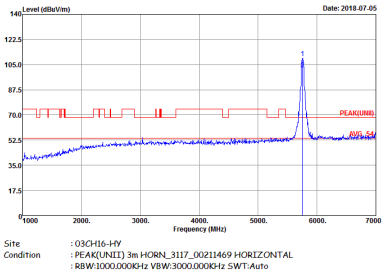
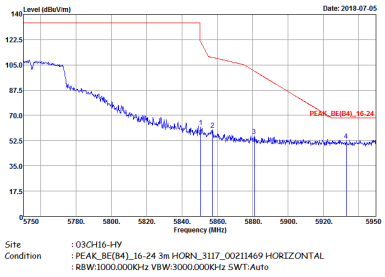
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

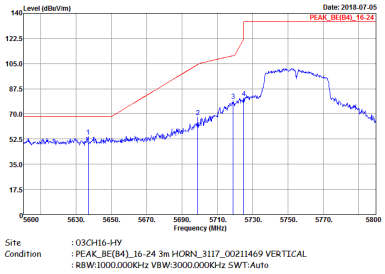
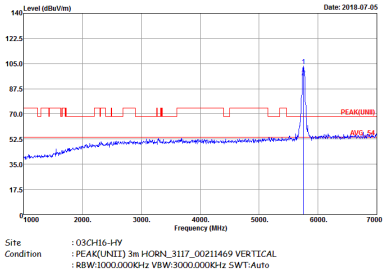
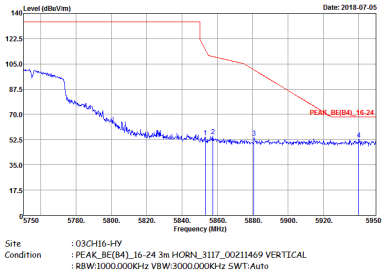
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

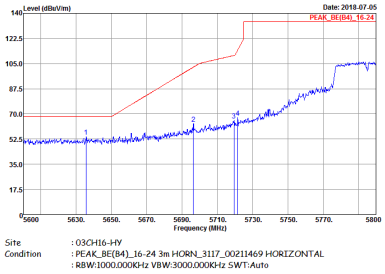
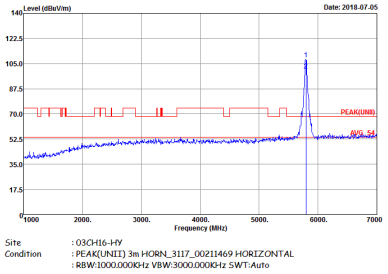
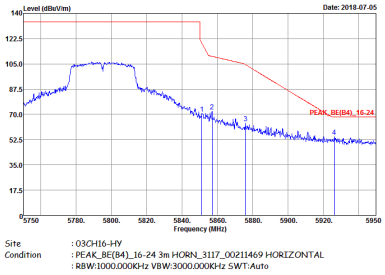
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

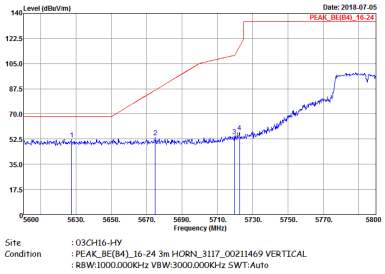
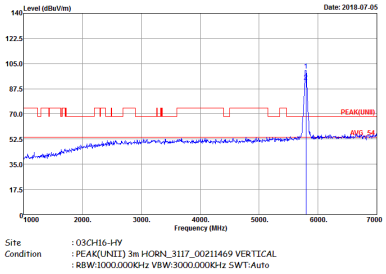
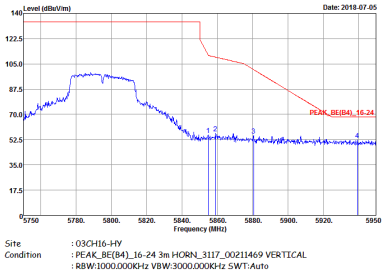
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak		

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

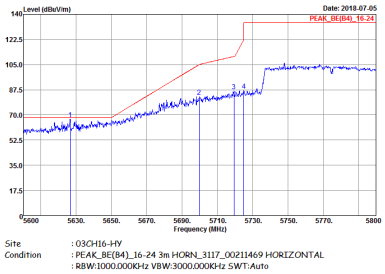
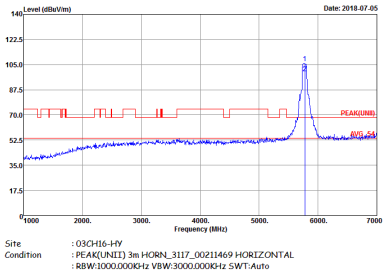
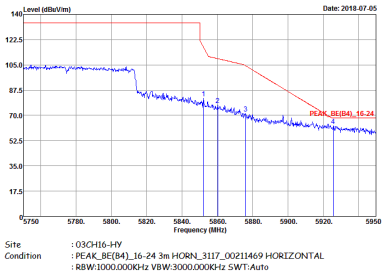
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

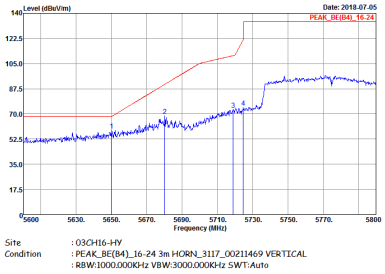
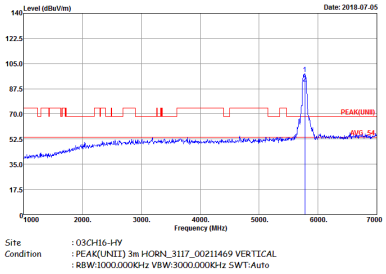
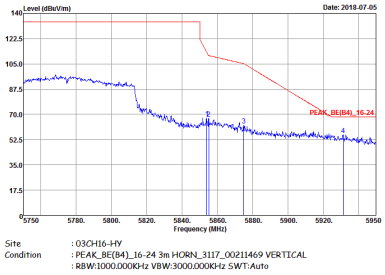
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

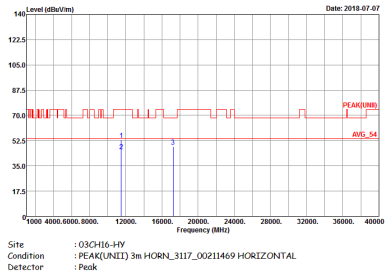
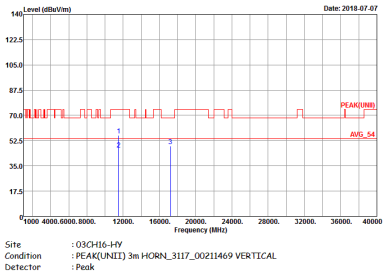
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

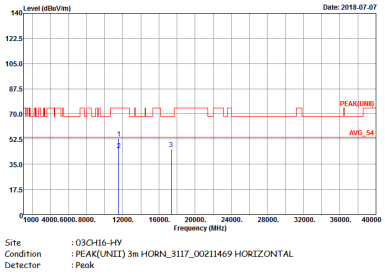
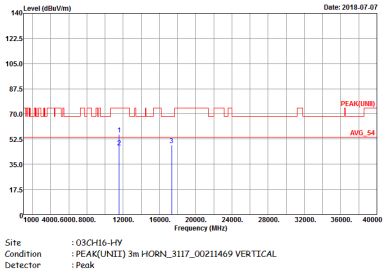
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

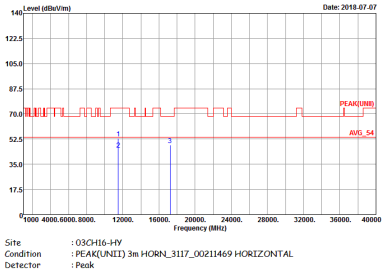
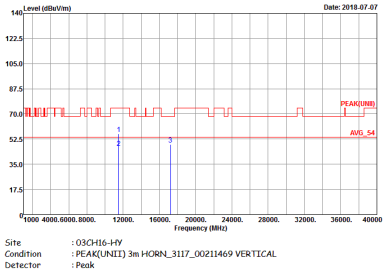
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

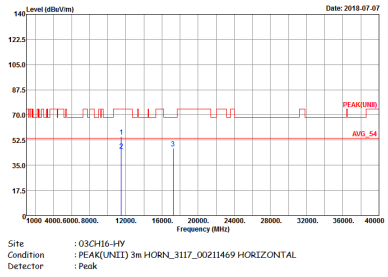
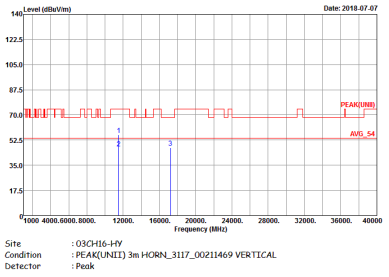
WIFI 802.11a (Harmonic @ 3m)

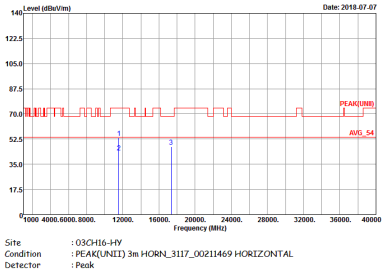
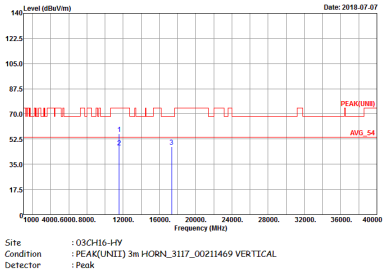
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

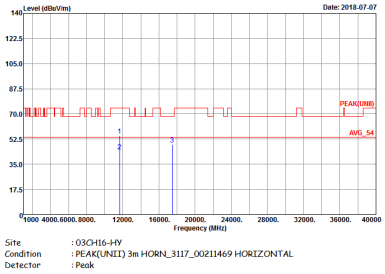
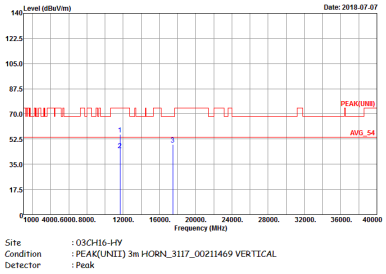
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

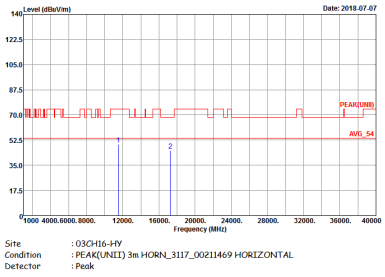
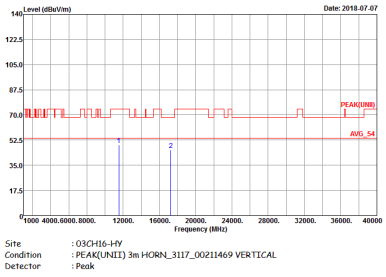
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

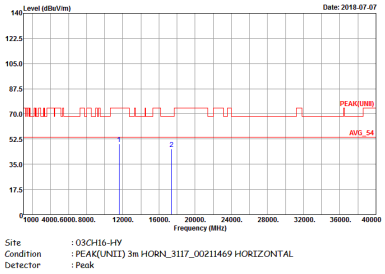
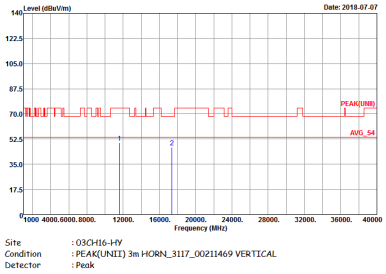
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

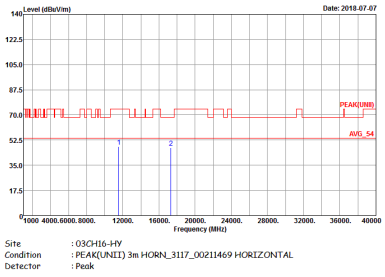
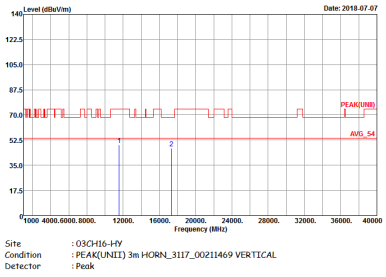
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m HORN_3117_00211469 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 3m HORN_3117_00211469 VERTICAL Detector : Peak

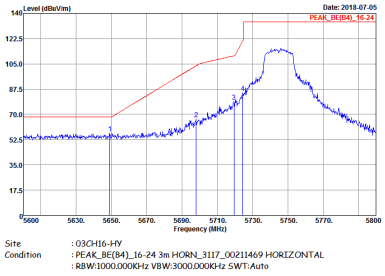
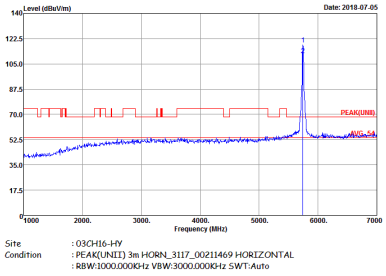
Band 4 5725~5850MHz

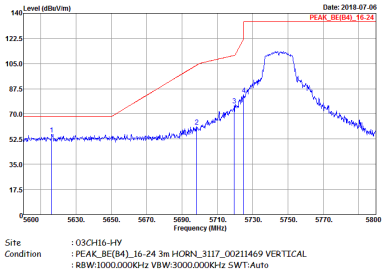
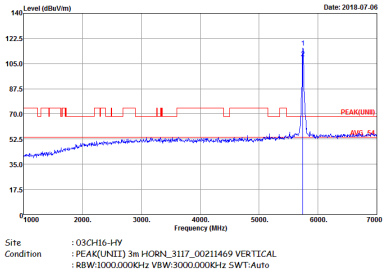
WIFI 802.11ac VHT80 (Harmonic @ 3m)

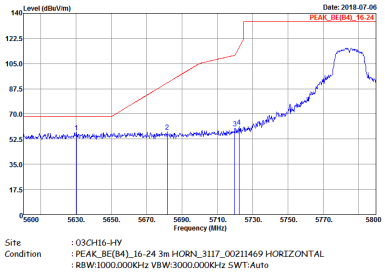
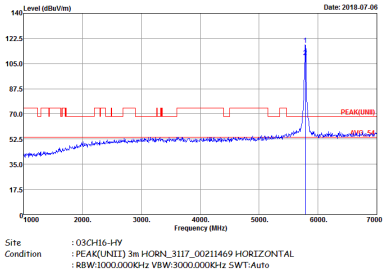
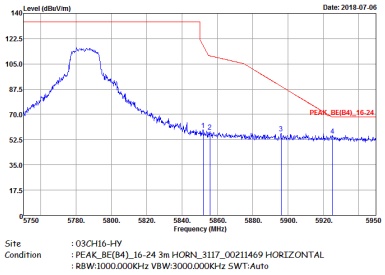
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak		

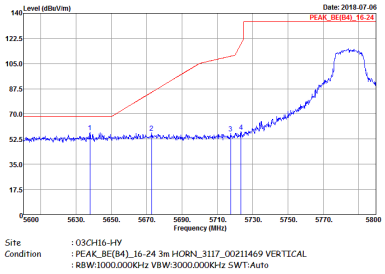
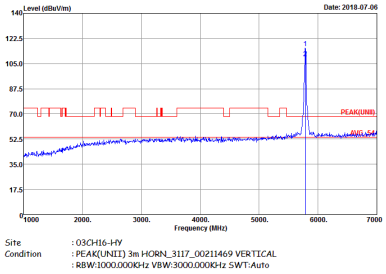
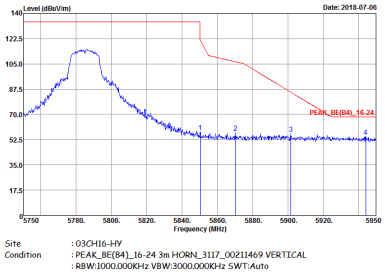
Band 4 - 5725~5850MHz

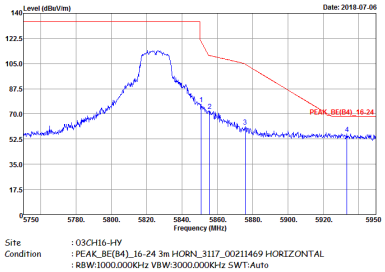
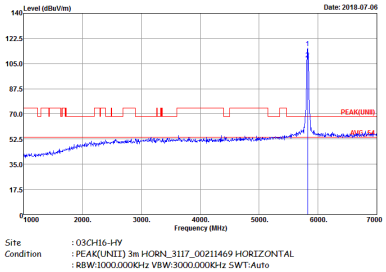
WIFI 802.11a (Band Edge @ 3m)

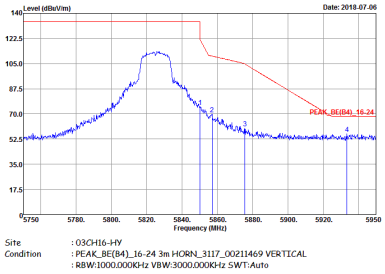
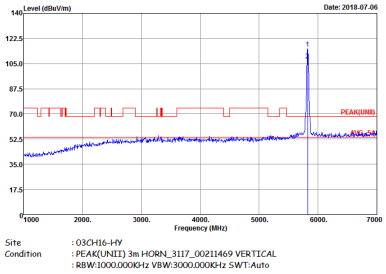
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak		

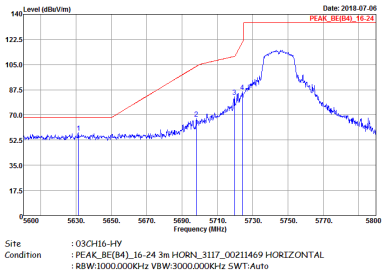
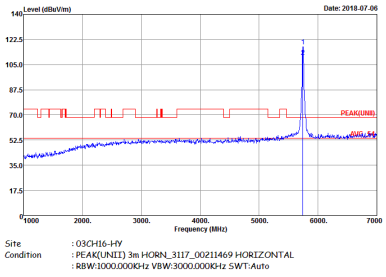
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

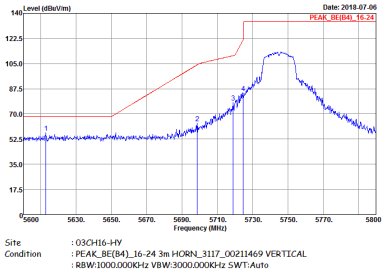
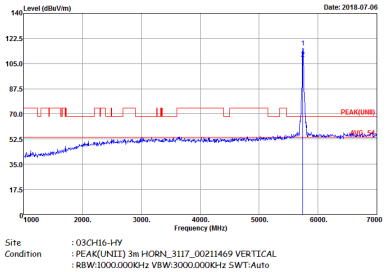
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

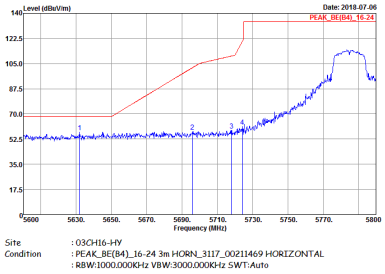
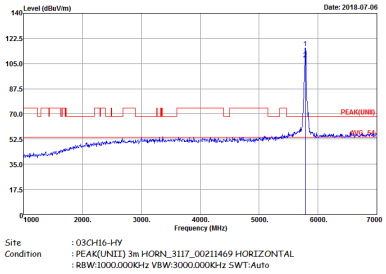
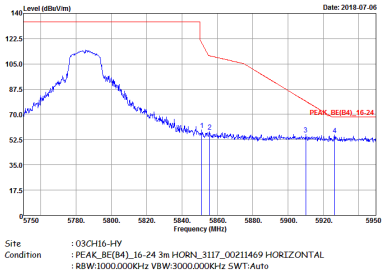
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

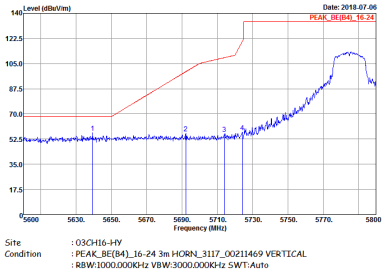
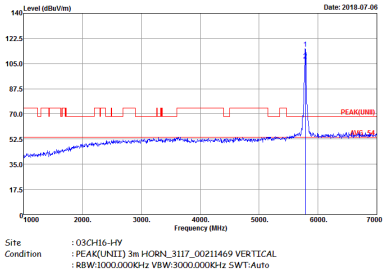
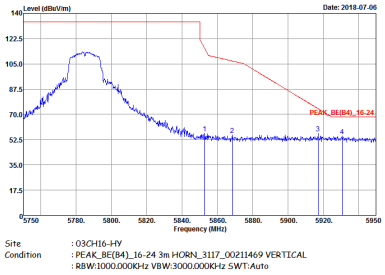
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

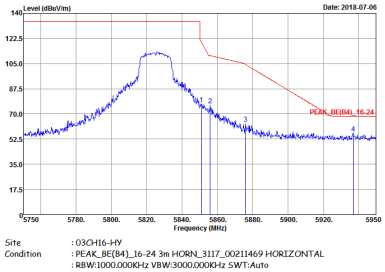
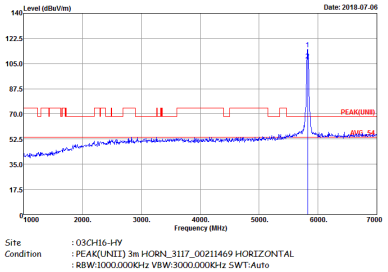
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

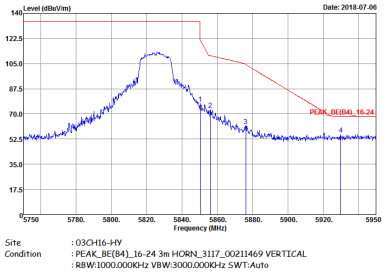
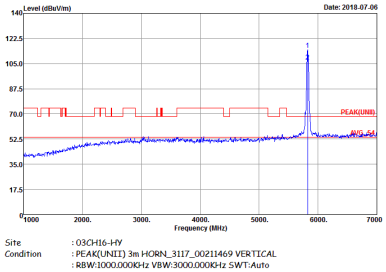
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak		

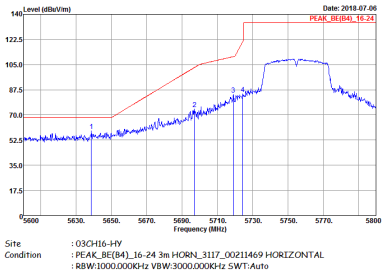
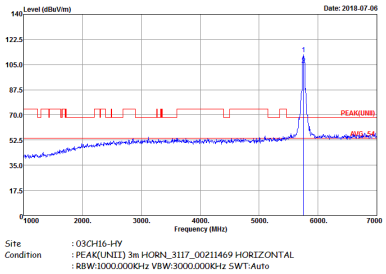
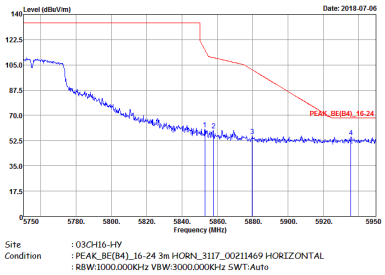
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

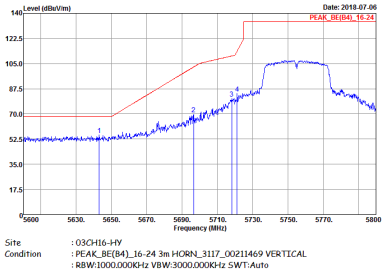
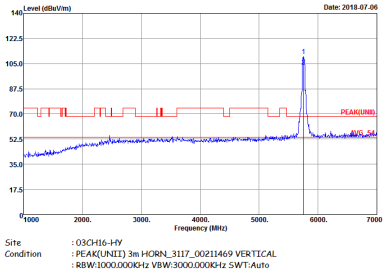
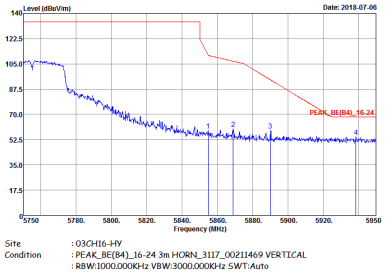
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

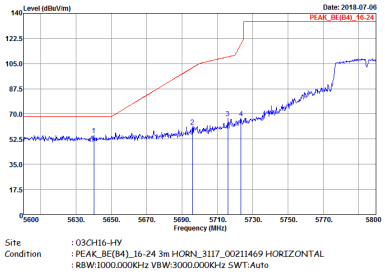
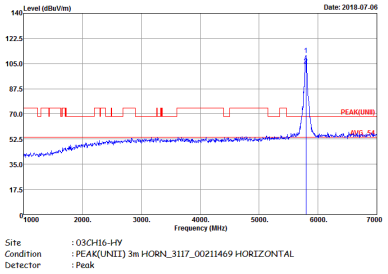
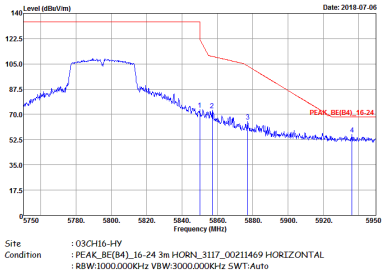
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

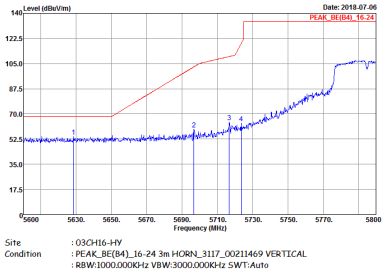
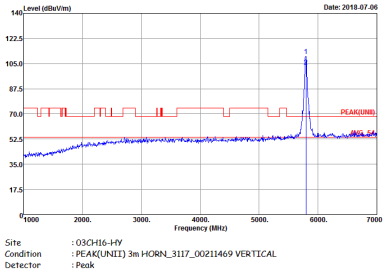
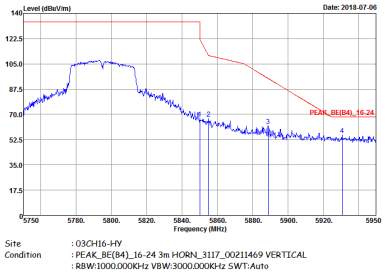
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak		

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

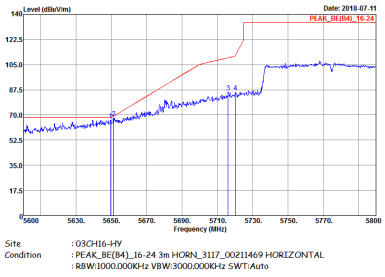
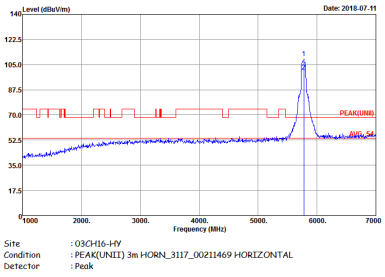
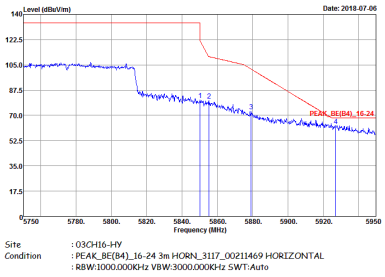
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

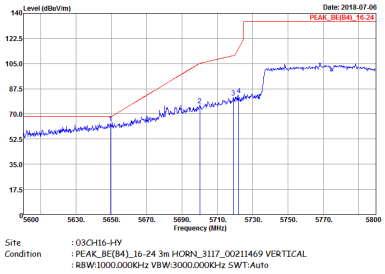
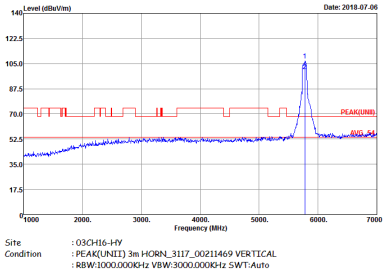
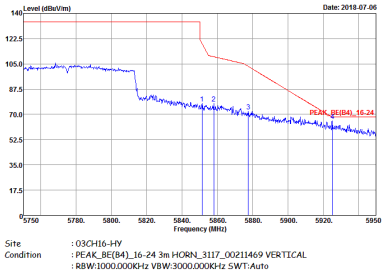
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

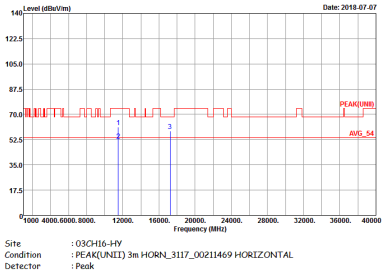
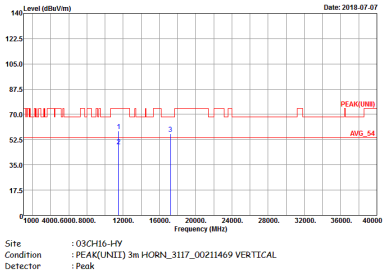
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

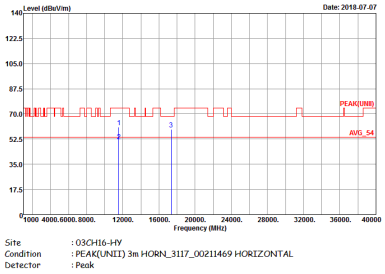
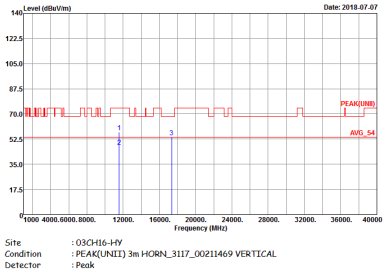
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

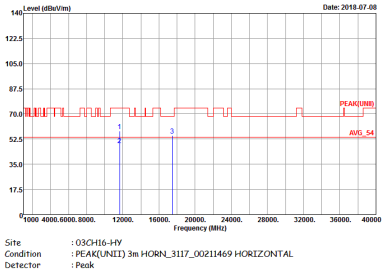
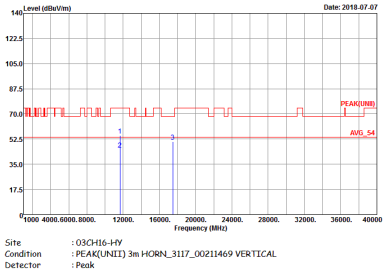
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

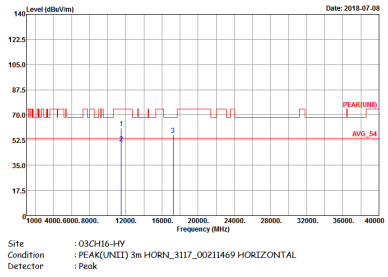
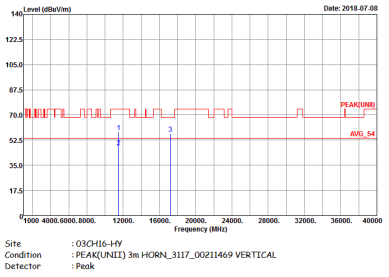
WIFI 802.11a (Harmonic @ 3m)

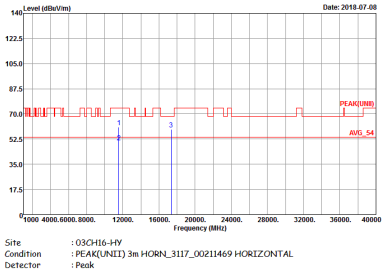
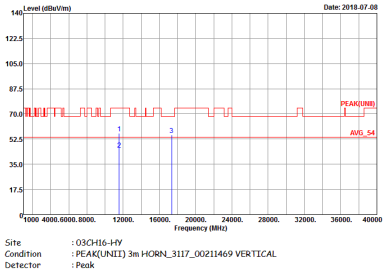
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

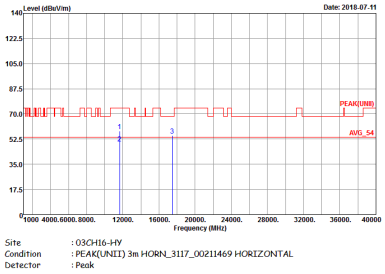
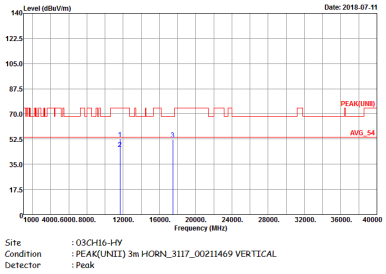
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

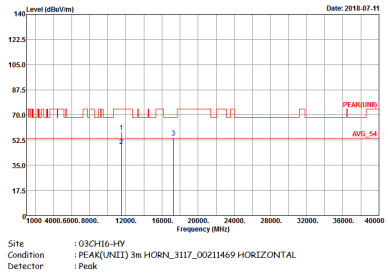
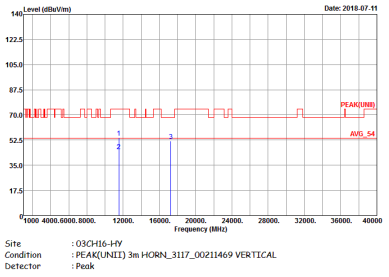
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

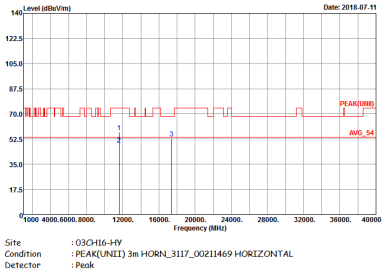
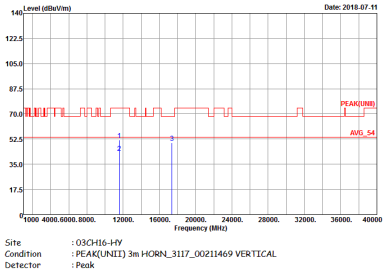
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

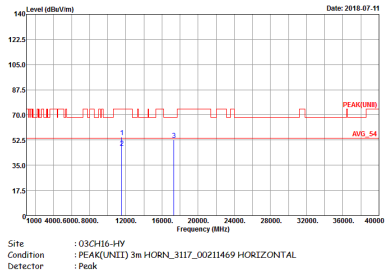
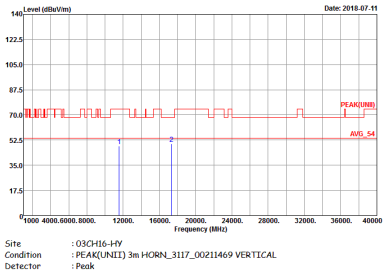
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.		

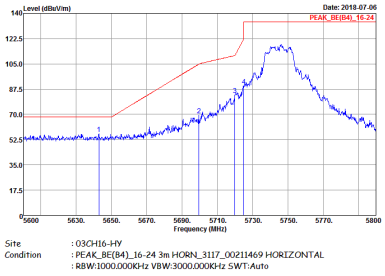
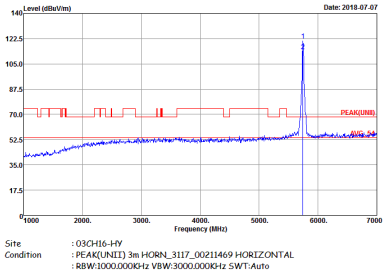
Band 4 5725~5850MHz

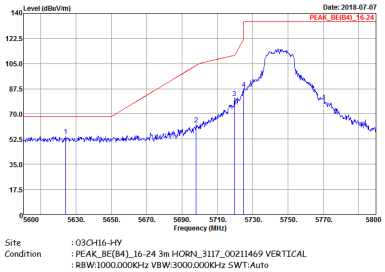
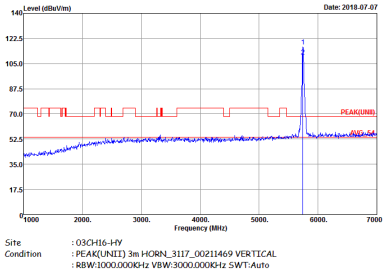
WIFI 802.11ac VHT80 (Harmonic @ 3m)

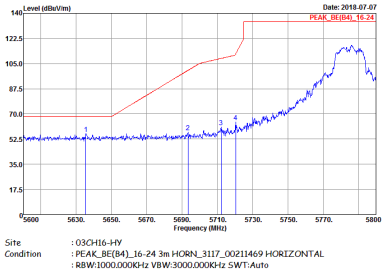
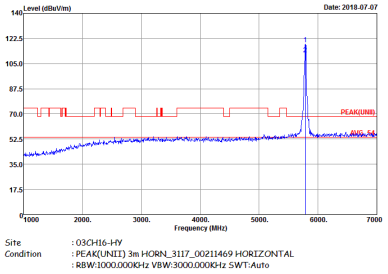
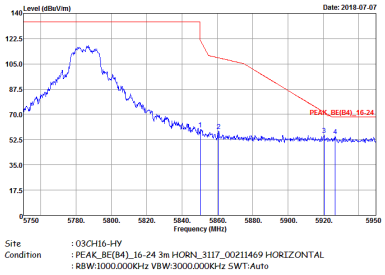
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.		

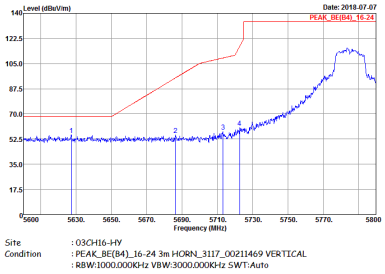
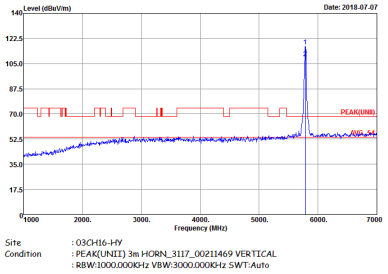
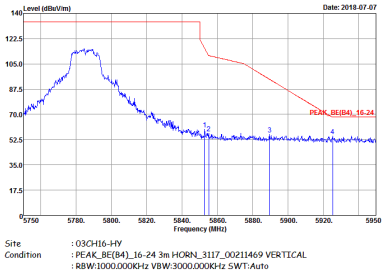
Band 4 - 5725~5850MHz

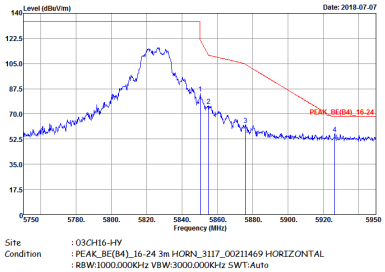
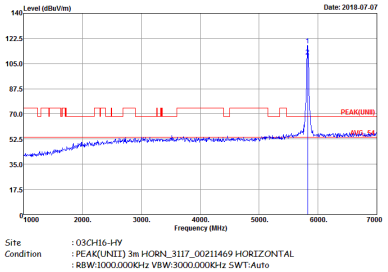
WIFI 802.11a (Band Edge @ 3m)

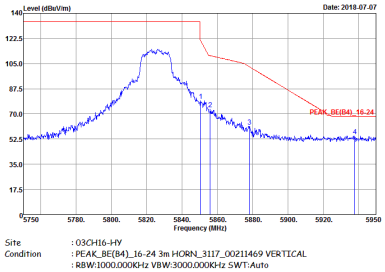
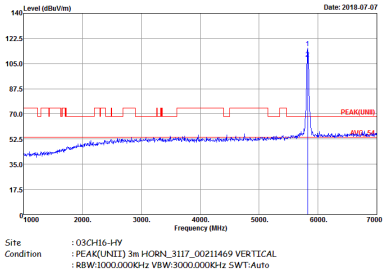
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

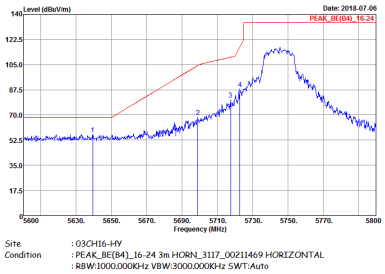
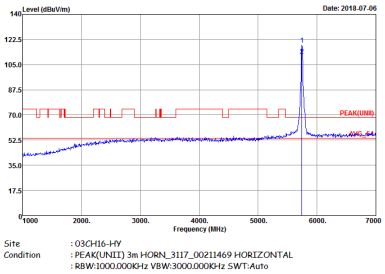
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

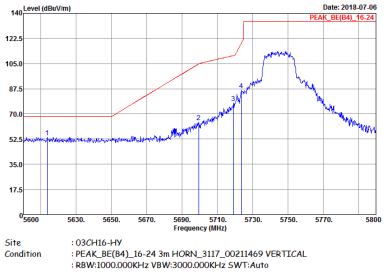
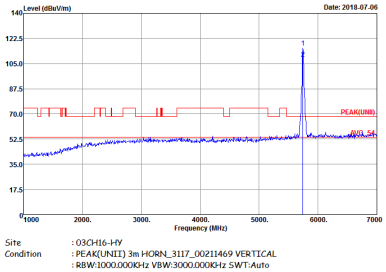
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

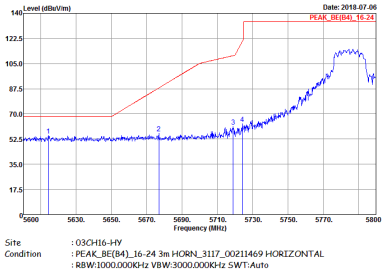
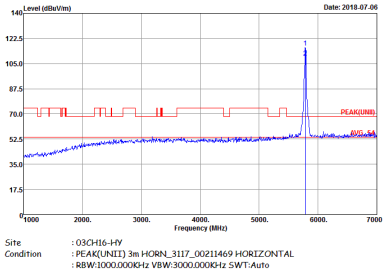
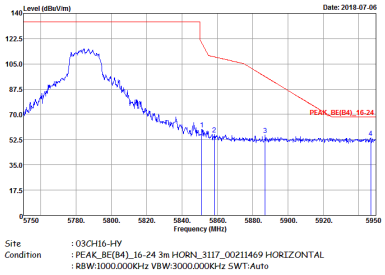
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

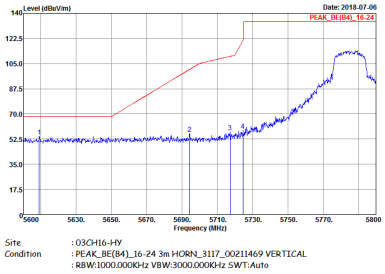
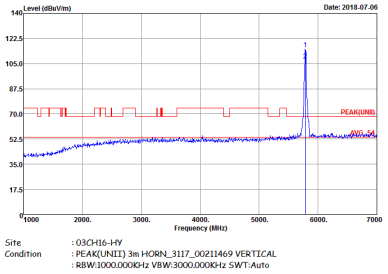
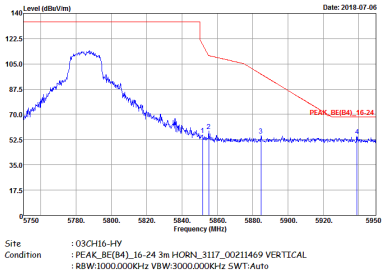
Band 4 5725~5850MHz

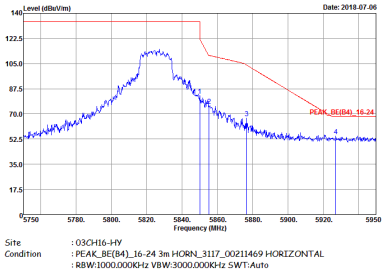
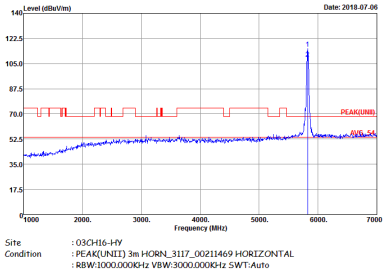
WIFI 802.11n HT20 (Band Edge @ 3m)

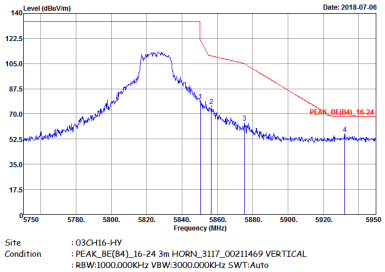
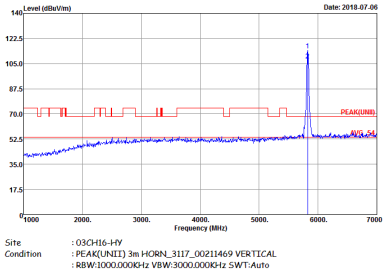
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

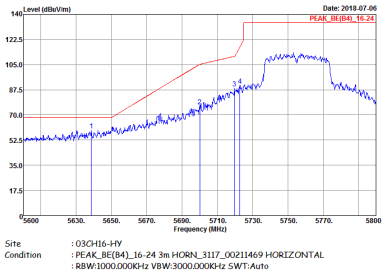
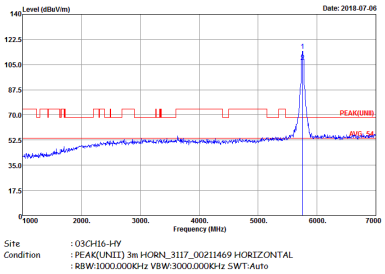
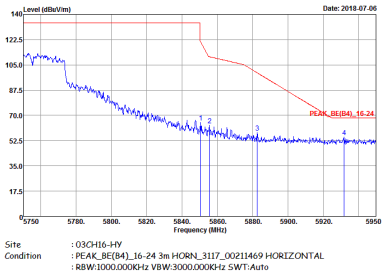
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

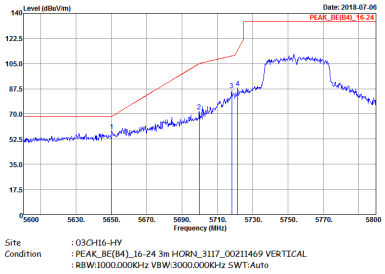
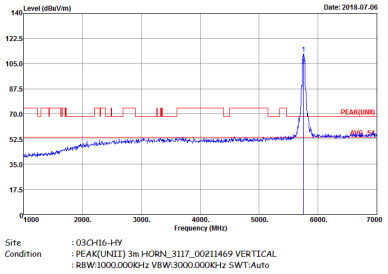
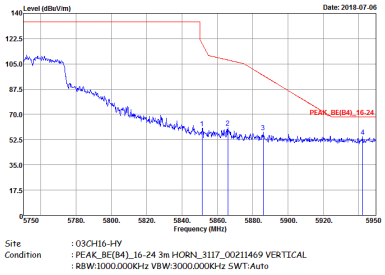
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

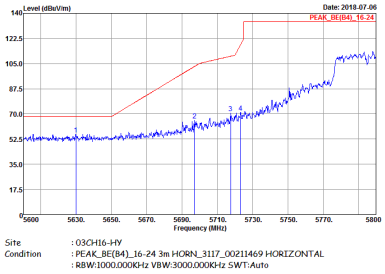
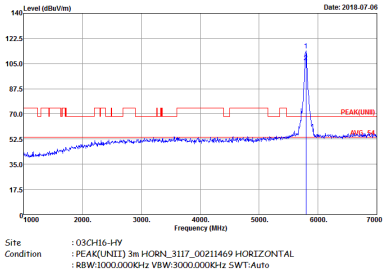
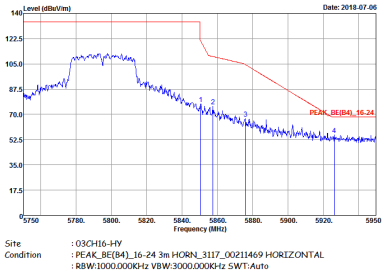
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

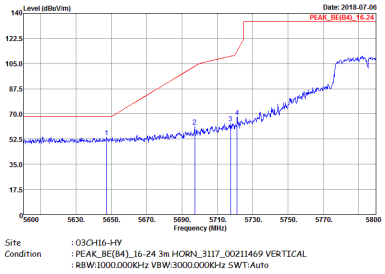
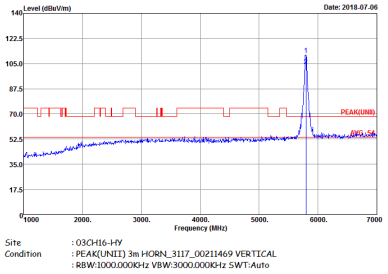
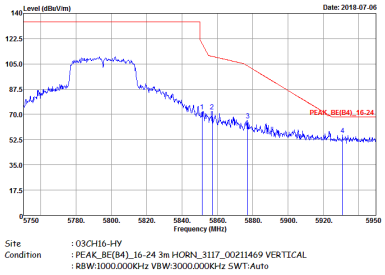
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

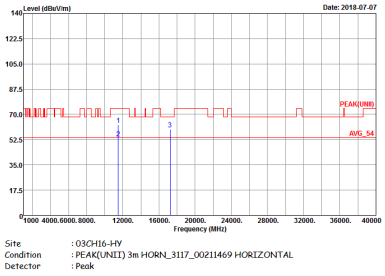
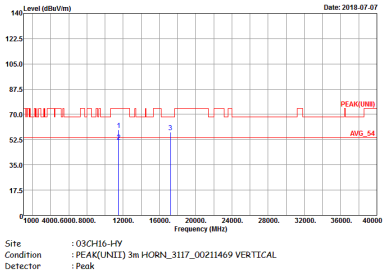
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

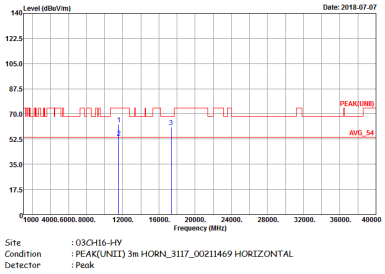
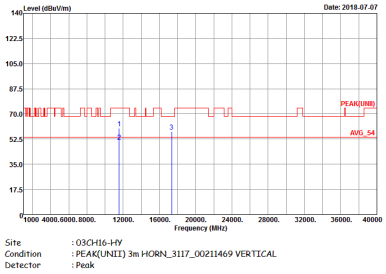
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

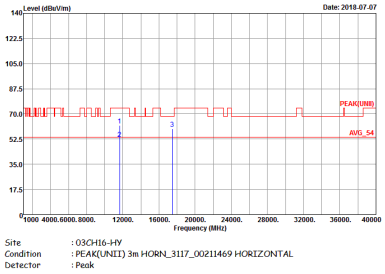
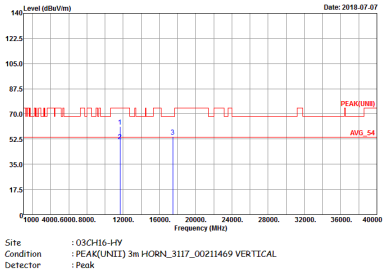
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

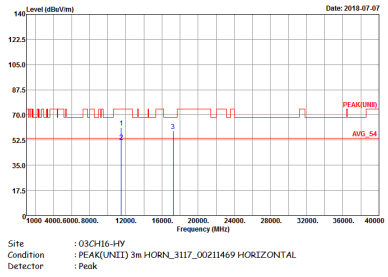
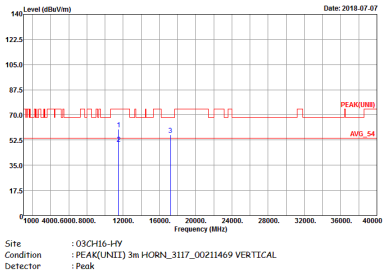
WIFI 802.11a (Harmonic @ 3m)

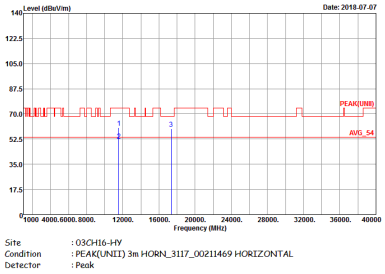
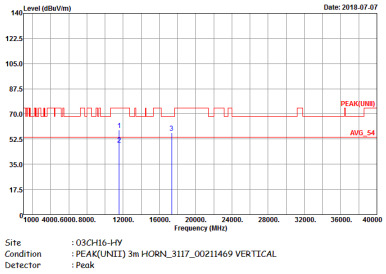
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

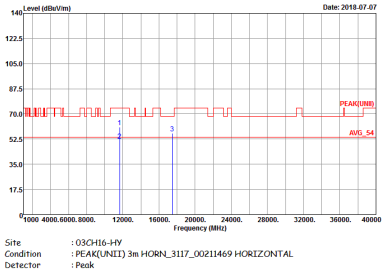
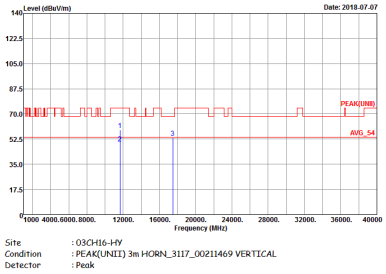
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

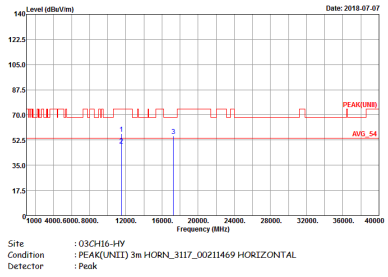
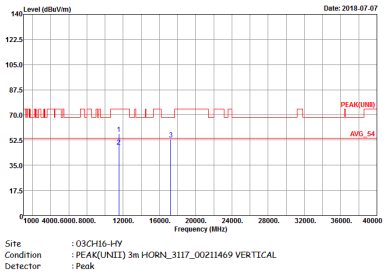
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

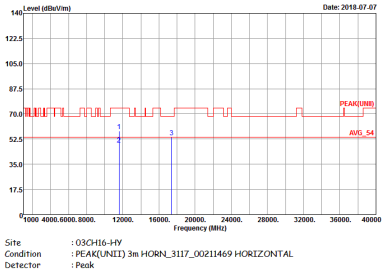
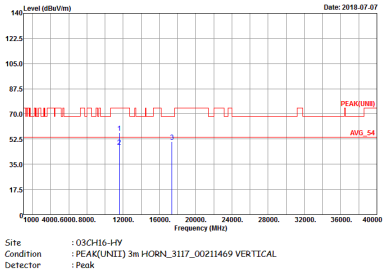
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

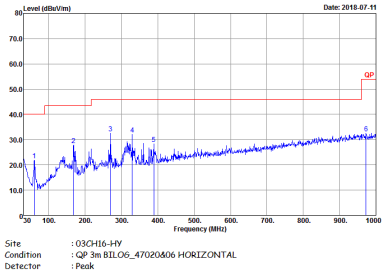
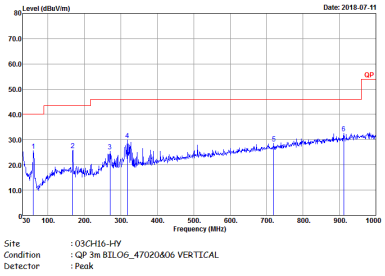
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

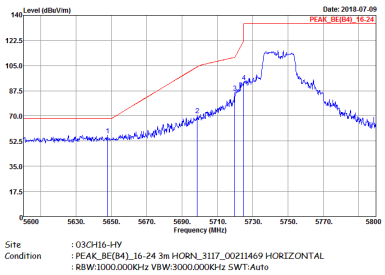
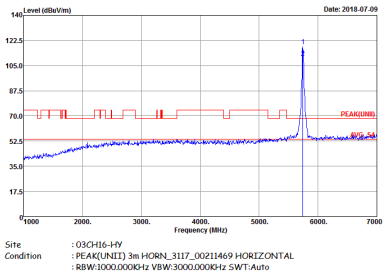
Emission below 1GHz

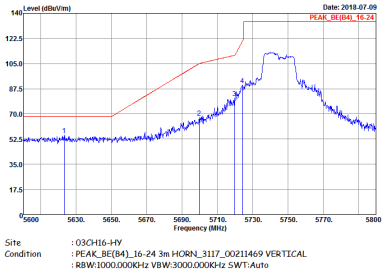
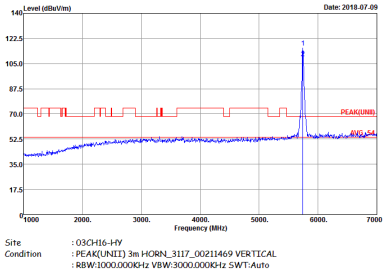
5GHz WIFI 802.11a (LF)

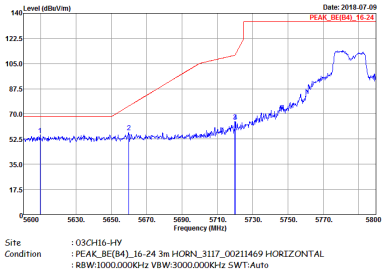
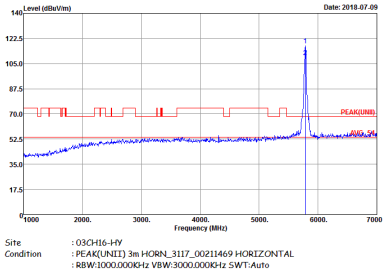
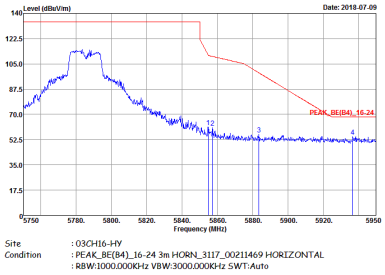
WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1+2	Horizontal	Vertical
QP / Peak		

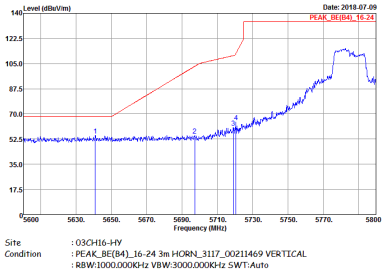
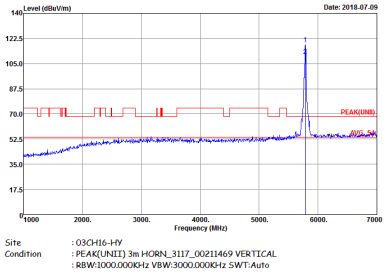
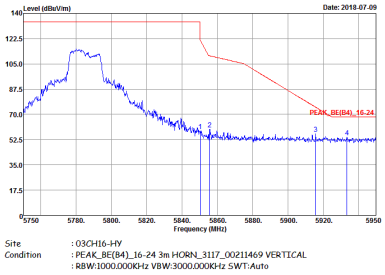
<TXBF Mode>

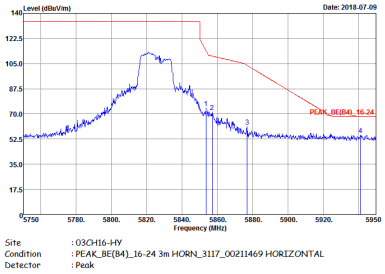
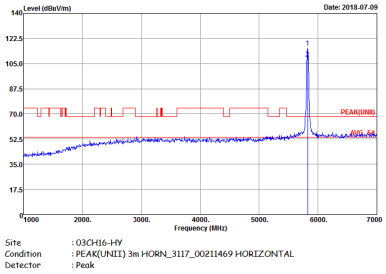
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

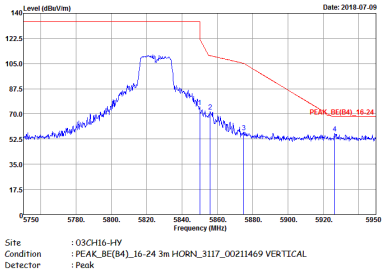
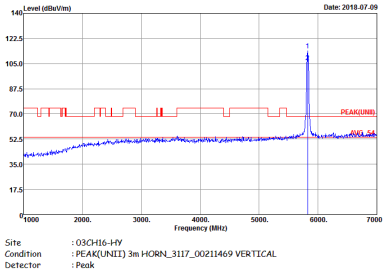
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.		

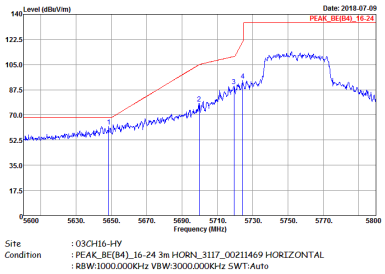
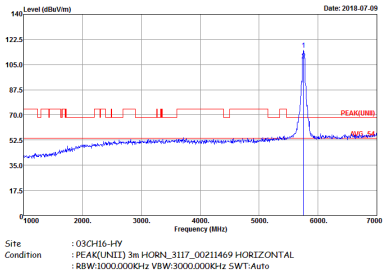
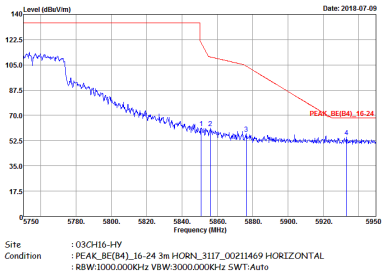
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

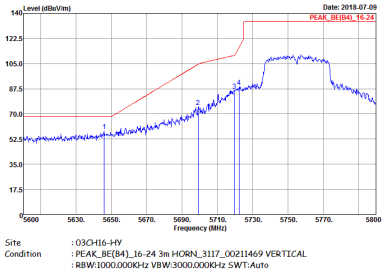
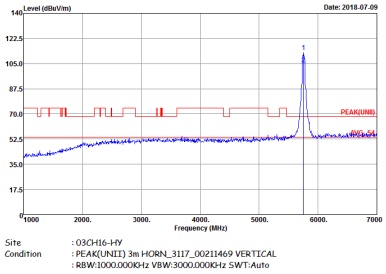
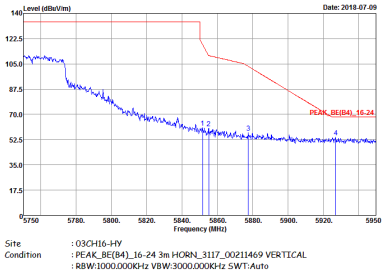
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

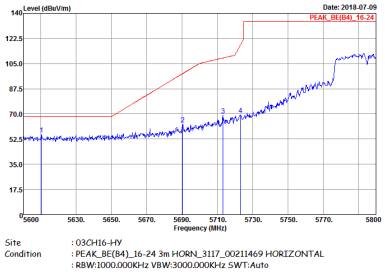
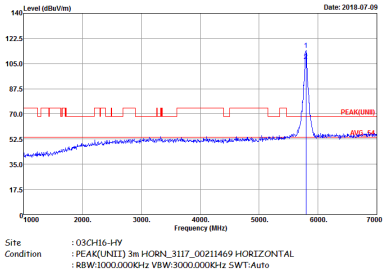
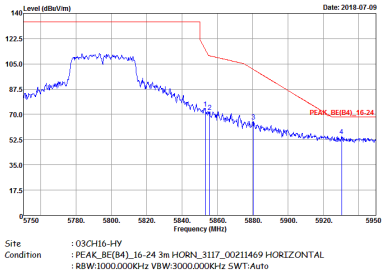
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

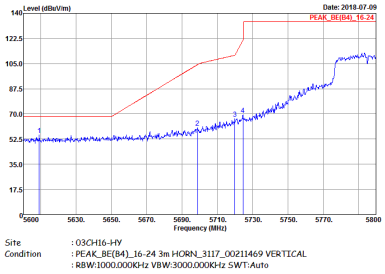
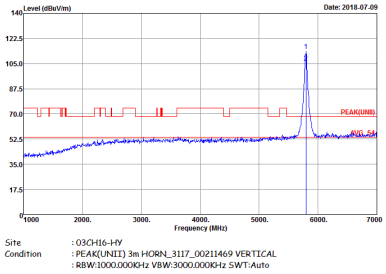
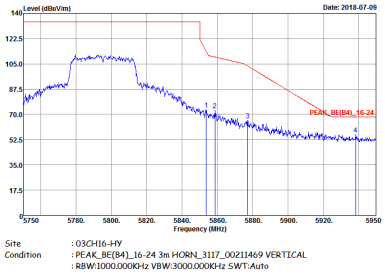
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.		

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

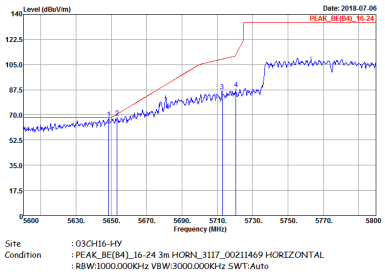
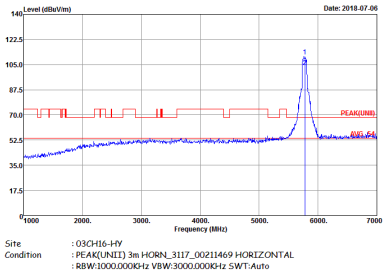
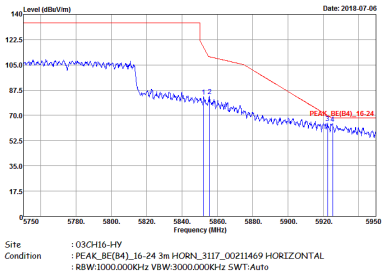
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

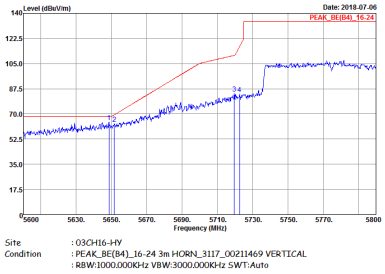
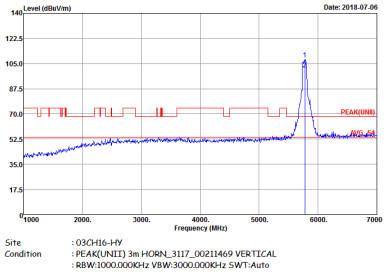
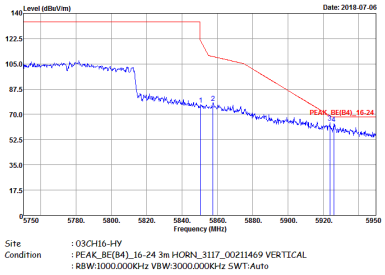
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

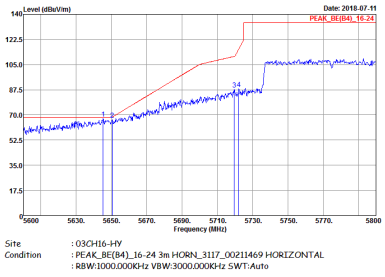
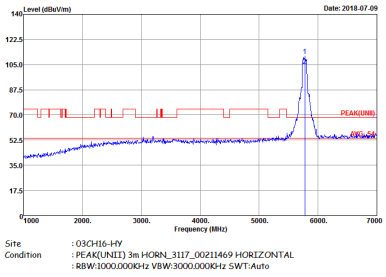
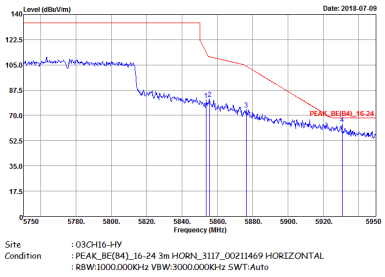
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

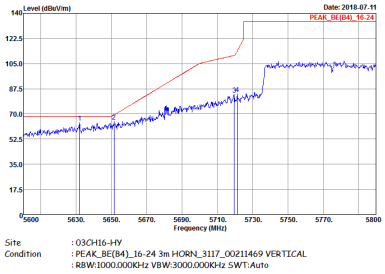
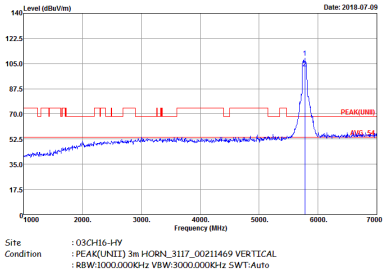
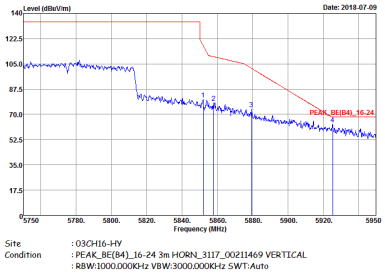
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

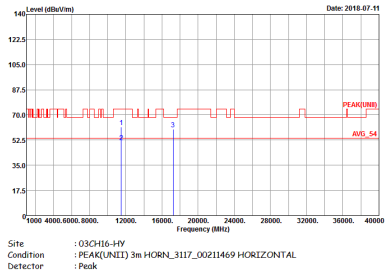
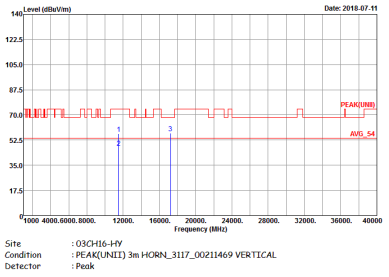
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

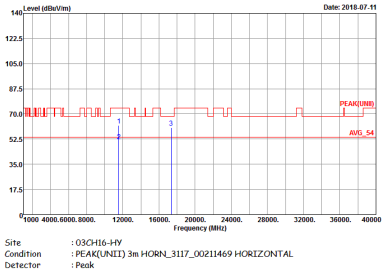
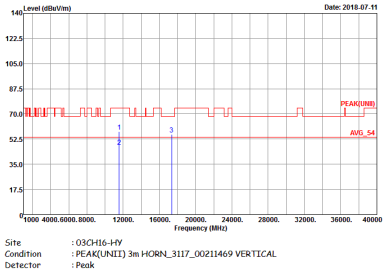
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

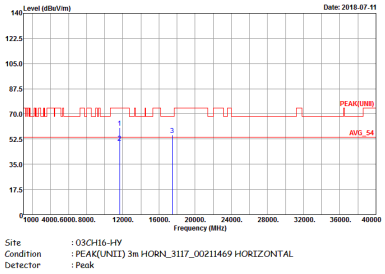
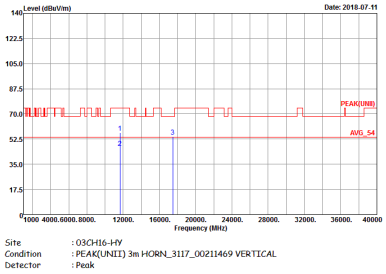
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

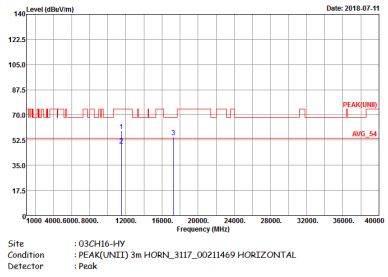
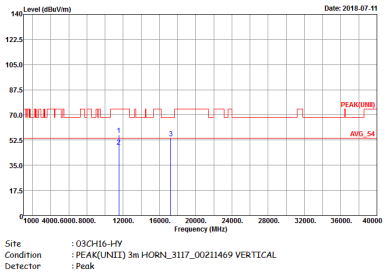
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

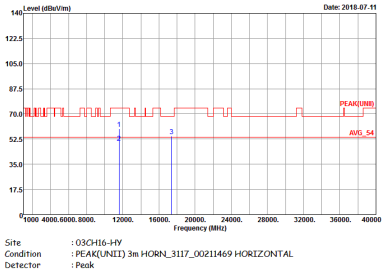
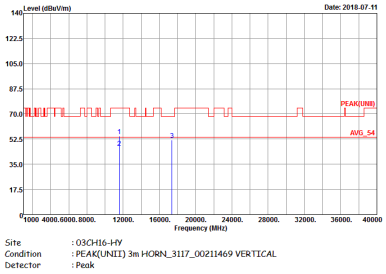
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

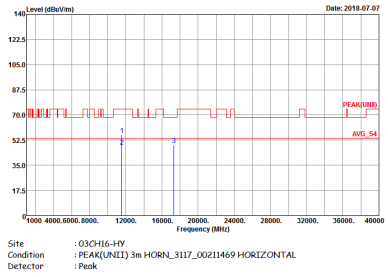
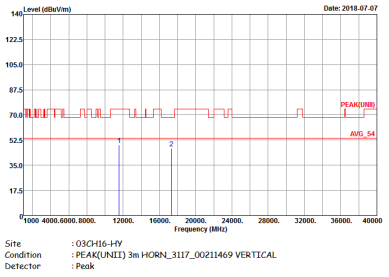
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

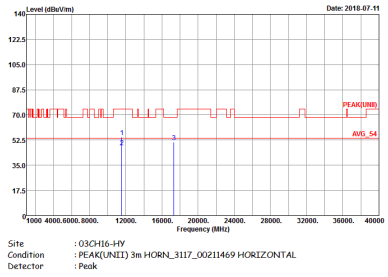
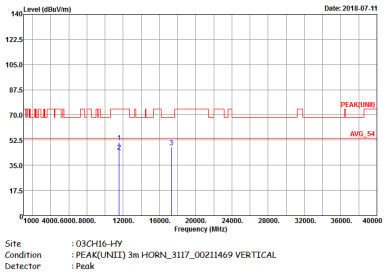
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

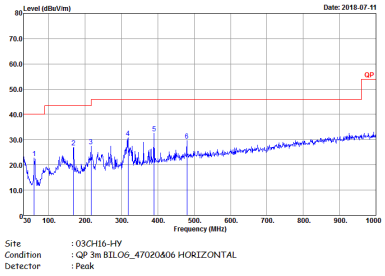
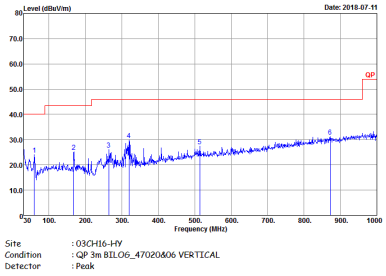
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

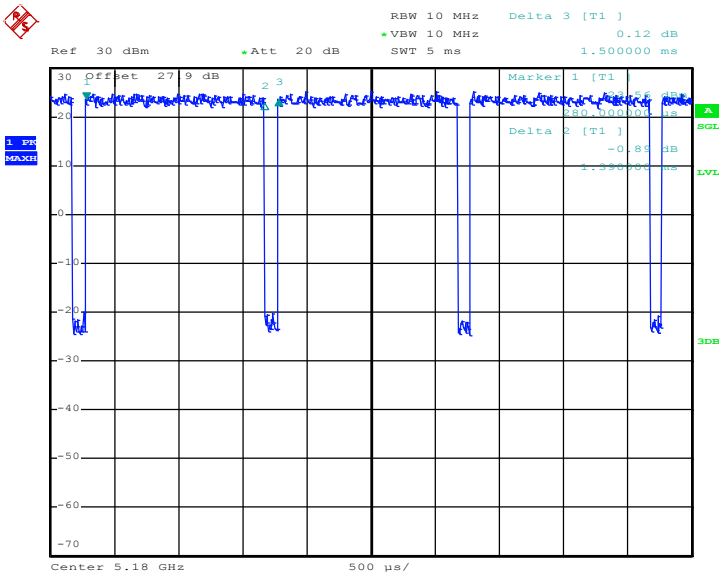
Appendix E. Duty Cycle Plots

<CDD Mode>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	92.67	1390.00	0.72	1kHz	0.33
2	802.11a	93.00	1395.00	0.72	1kHz	0.32
1+2	802.11a	92.67	1390.00	0.72	1kHz	0.33
1+2	802.11a	92.67	1390.00	0.72	1kHz	0.33
0	5GHz 802.11n HT20	92.20	1300.00	0.77	1kHz	0.35
1	5GHz 802.11n HT20	92.20	1300.00	0.77	1kHz	0.35
1+2	5GHz 802.11n HT20	92.20	1300.00	0.77	1kHz	0.35
1+2	5GHz 802.11n HT20	92.17	1295.00	0.77	1kHz	0.35
0	5GHz 802.11n HT40	86.69	645.00	1.55	3kHz	0.62
1	5GHz 802.11n HT40	85.60	642.00	1.56	3kHz	0.68
1+2	5GHz 802.11n HT40	86.40	648.00	1.54	3kHz	0.63
1+2	5GHz 802.11n HT40	86.40	648.00	1.54	3kHz	0.63
0	5GHz 802.11ac VHT20	92.96	1320.00	0.76	1kHz	0.32
1	5GHz 802.11ac VHT20	92.93	1315.00	0.76	1kHz	0.32
1+2	5GHz 802.11ac VHT20	92.96	1320.00	0.76	1kHz	0.32
1+2	5GHz 802.11ac VHT20	92.96	1320.00	0.76	1kHz	0.32
0	5GHz 802.11ac VHT40	86.85	654.00	1.53	3kHz	0.61
1	5GHz 802.11ac VHT40	86.40	648.00	1.54	3kHz	0.63
1+2	5GHz 802.11ac VHT40	86.40	648.00	1.54	3kHz	0.63
1+2	5GHz 802.11ac VHT40	86.40	648.00	1.54	3kHz	0.63
0	5GHz 802.11ac VHT80	76.19	320.00	3.13	10kHz	1.18
1	5GHz 802.11ac VHT80	76.19	320.00	3.13	10kHz	1.18
1+2	5GHz 802.11ac VHT80	76.42	324.00	3.09	10kHz	1.17
1+2	5GHz 802.11ac VHT80	76.42	324.00	3.09	10kHz	1.17

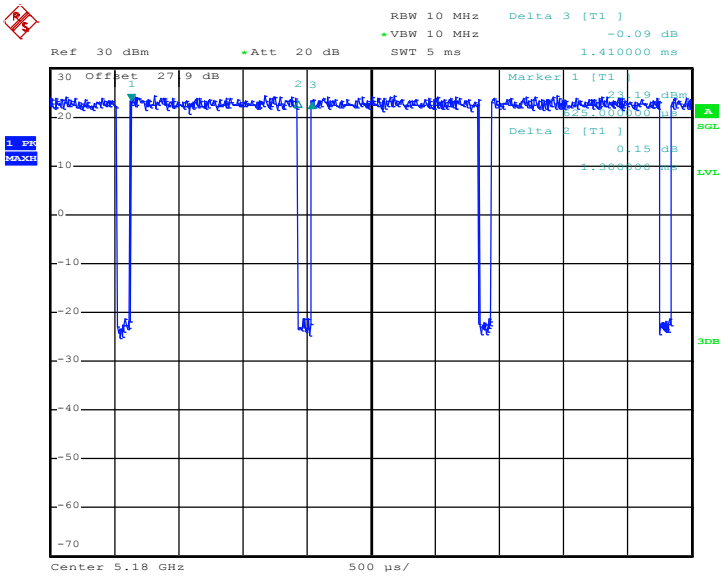
<Ant. 1>

802.11a



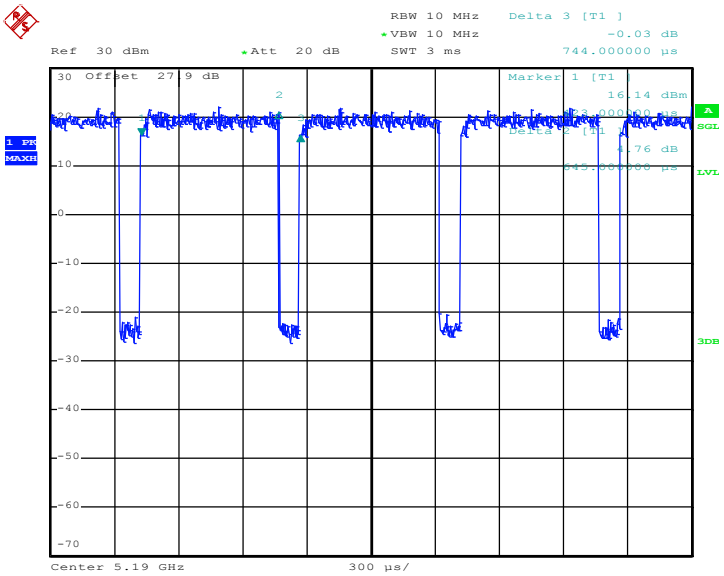
Date: 26.JUN.2018 00:31:33

802.11n HT20



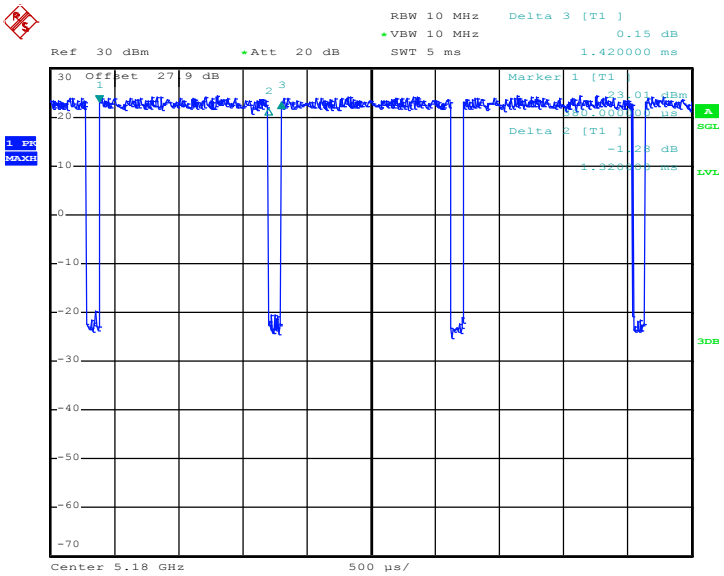
Date: 26.JUN.2018 02:08:20

802.11n HT40



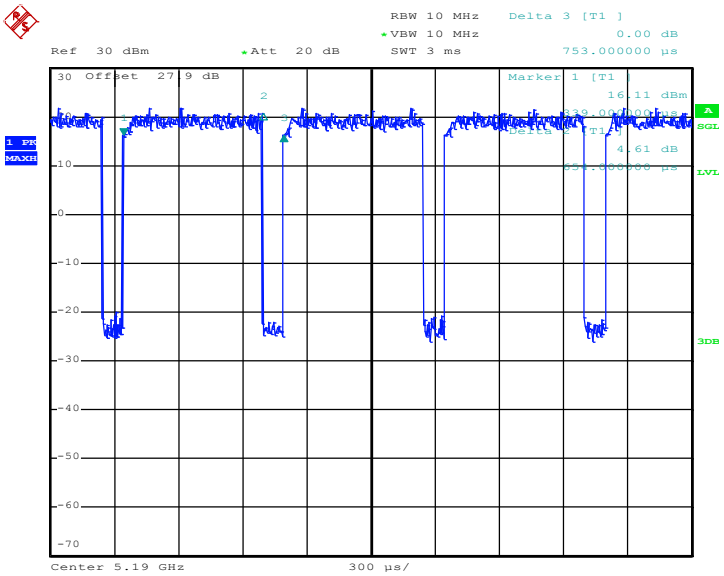
Date: 26.JUN.2018 05:13:11

802.11ac VHT20



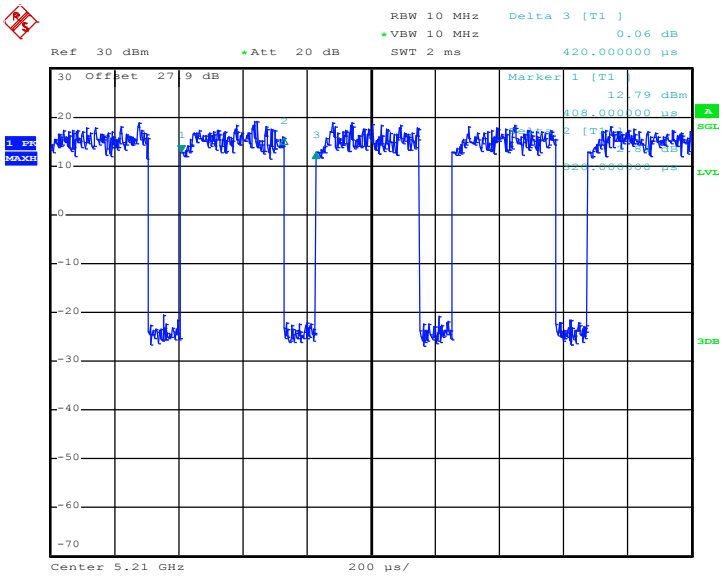
Date: 26.JUN.2018 04:04:51

802.11ac VHT40



Date: 26.JUN.2018 06:30:09

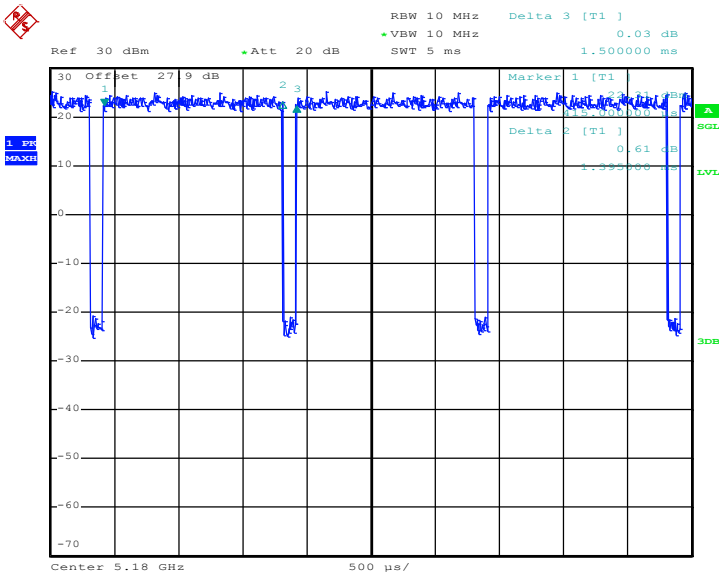
802.11ac VHT80



Date: 26.JUN.2018 07:11:35

<Ant. 2>

802.11a



Date: 26.JUN.2018 00:35:07

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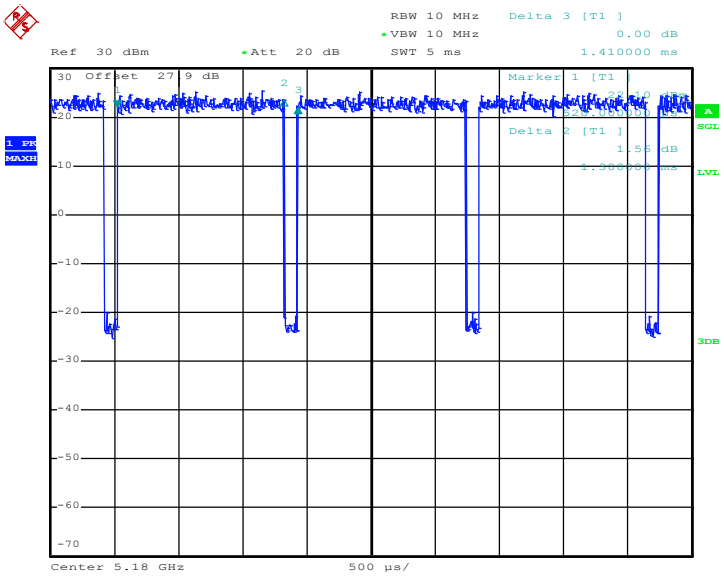

Date: 26.JUN.2018 02:09:54

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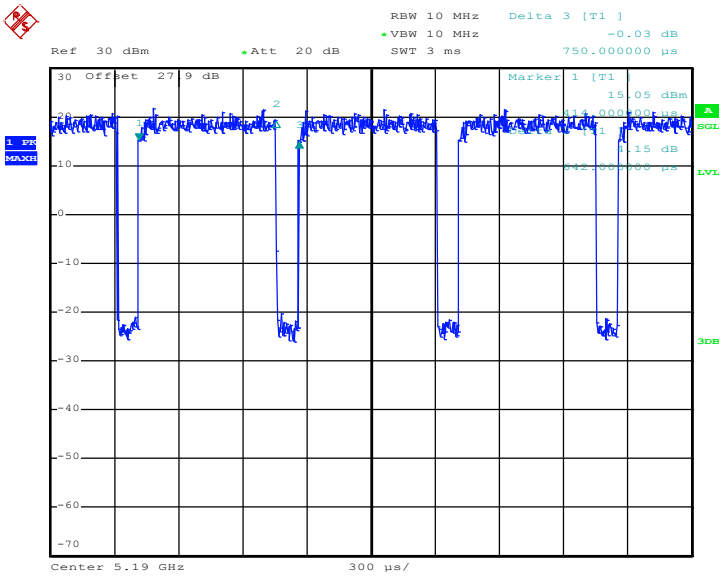

Date: 26.JUN.2018 05:14:14

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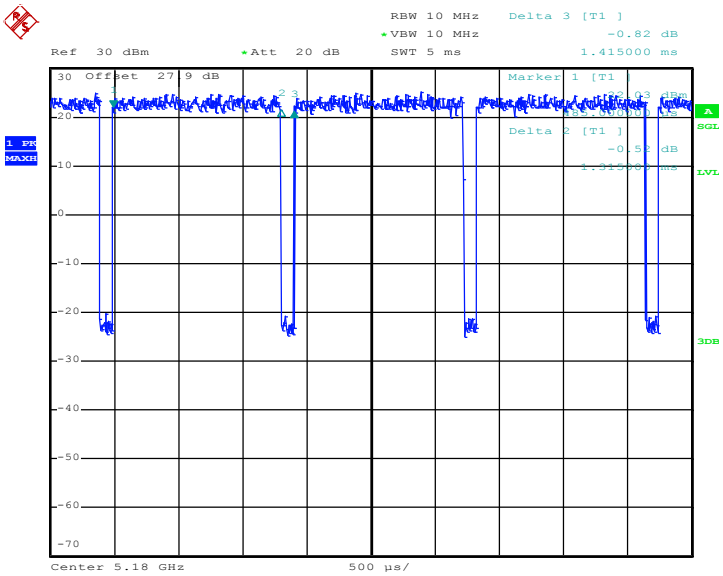

Date: 26.JUN.2018 04:10:16

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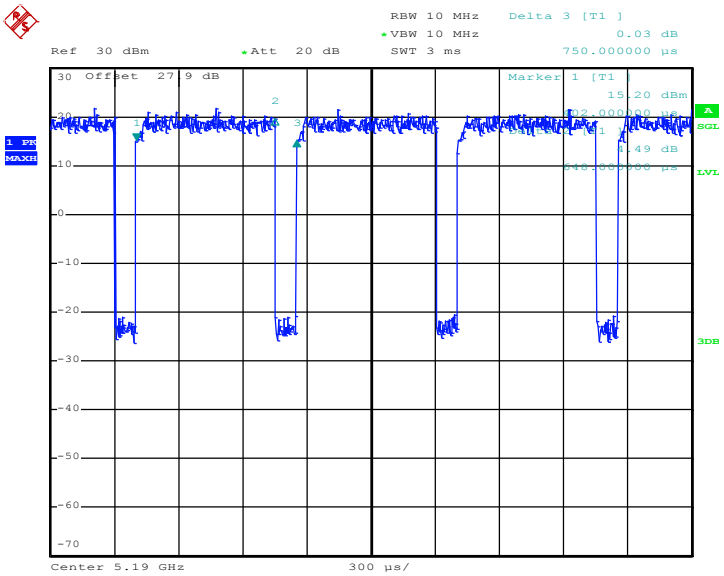
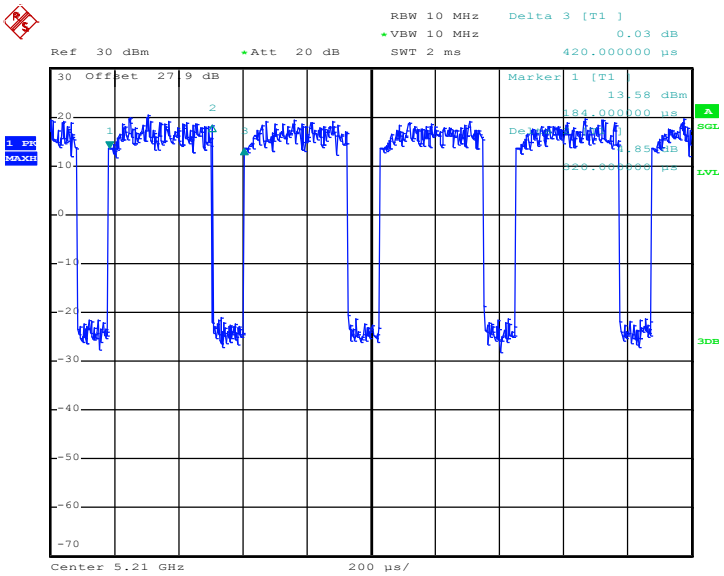


Date: 26.JUN.2018 06:31:12

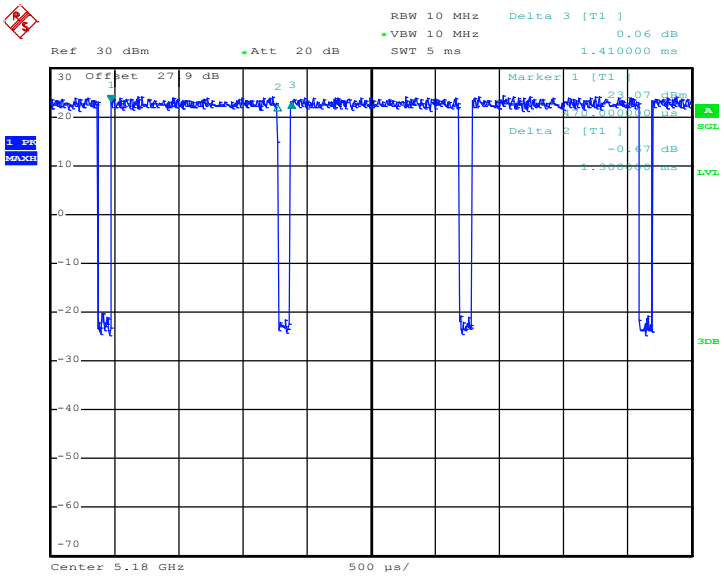
802.11ac VHT80



Date: 26.JUN.2018 07:13:28

MIMO <Ant. 1>

802.11n HT20



Date: 26.JUN.2018 02:02:23

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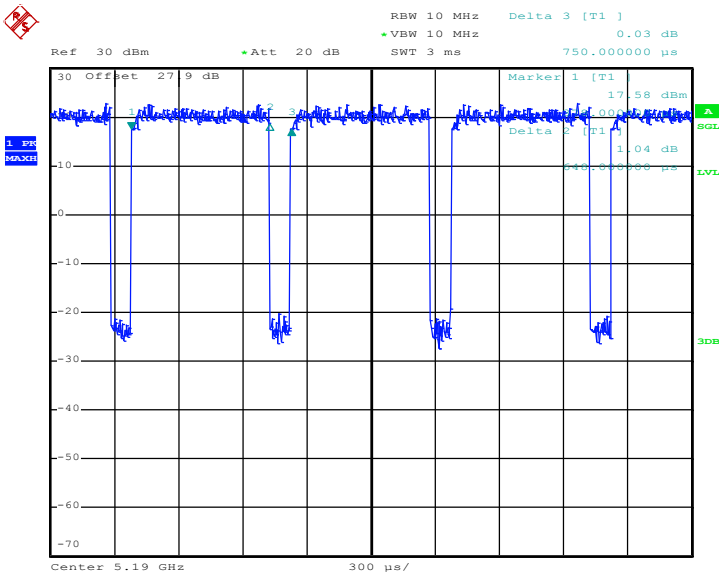
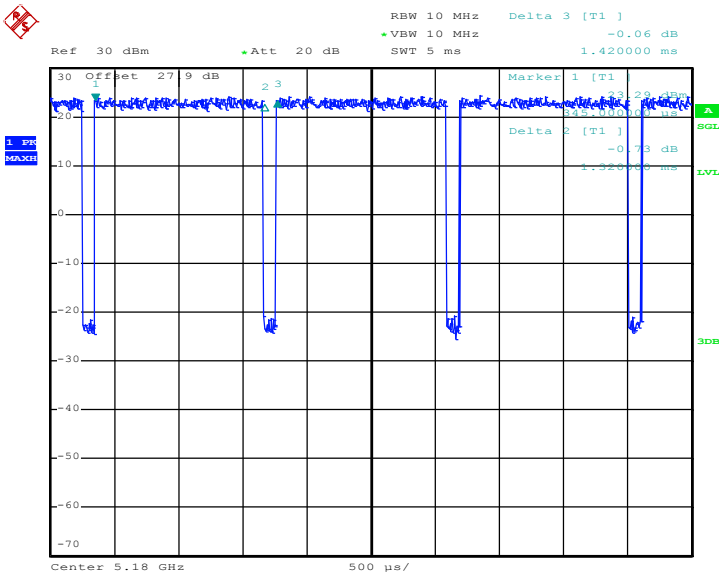


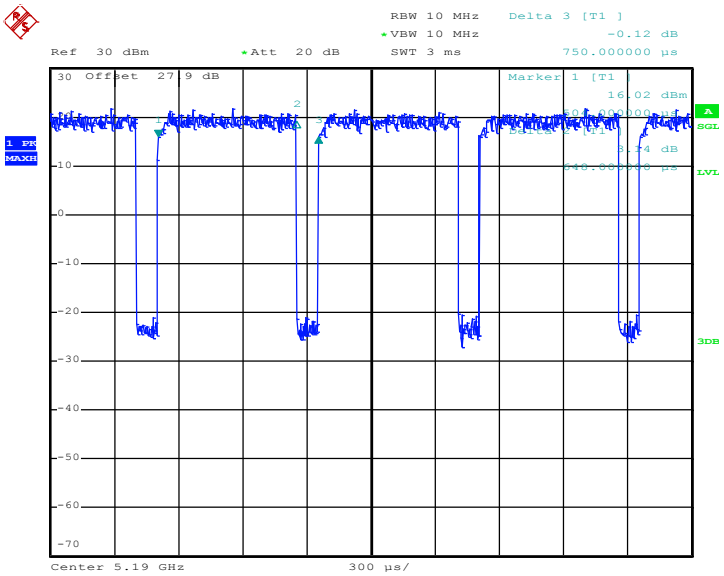
Date: 26.JUN.2018 04:40:32

802.11ac VHT20



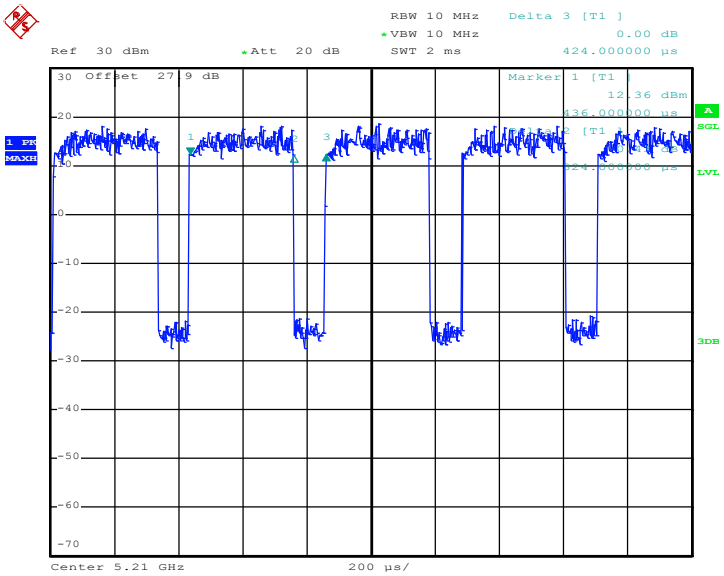
Date: 26.JUN.2018 03:40:13

802.11ac VHT40



Date: 26.JUN.2018 05:49:06

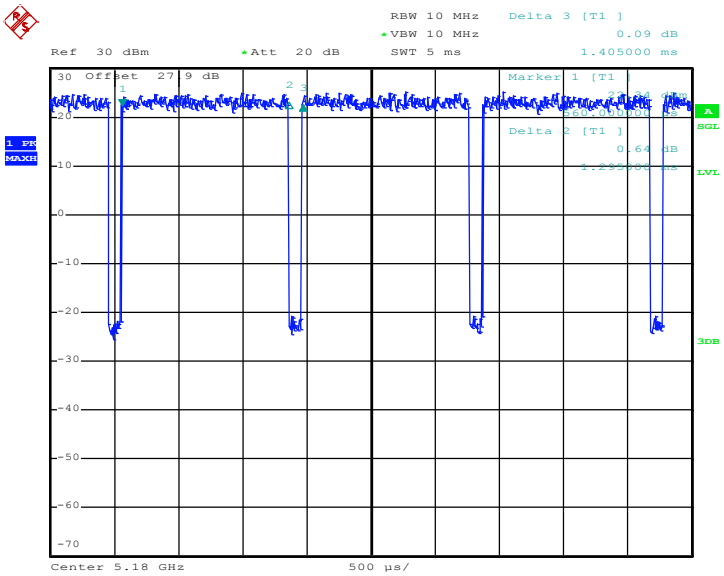
802.11ac VHT80



Date: 26.JUN.2018 06:56:18

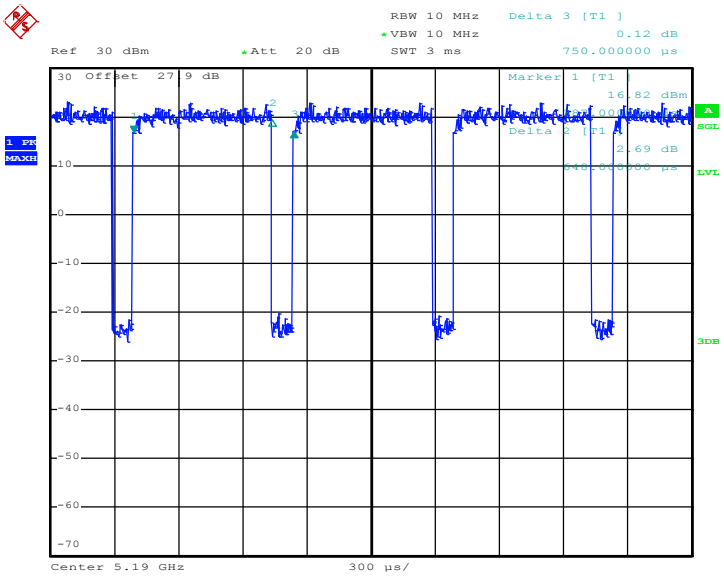
MIMO <Ant. 2>

802.11n HT20



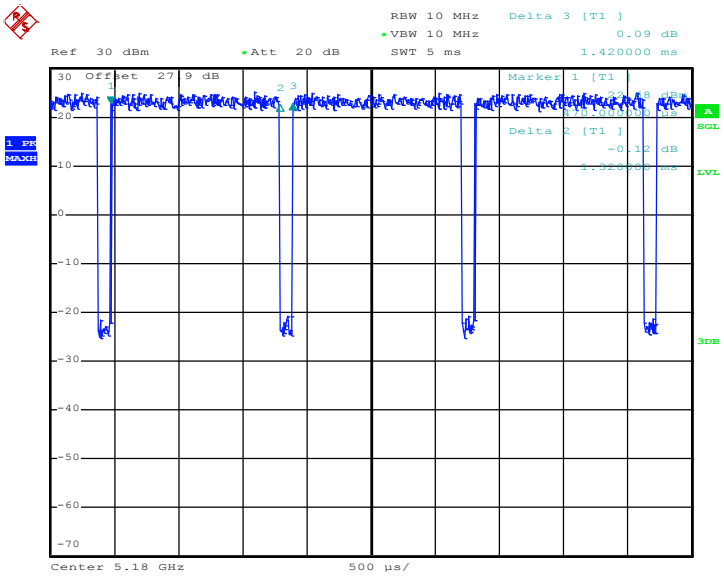
Date: 26.JUN.2018 02:03:55

802.11n HT40



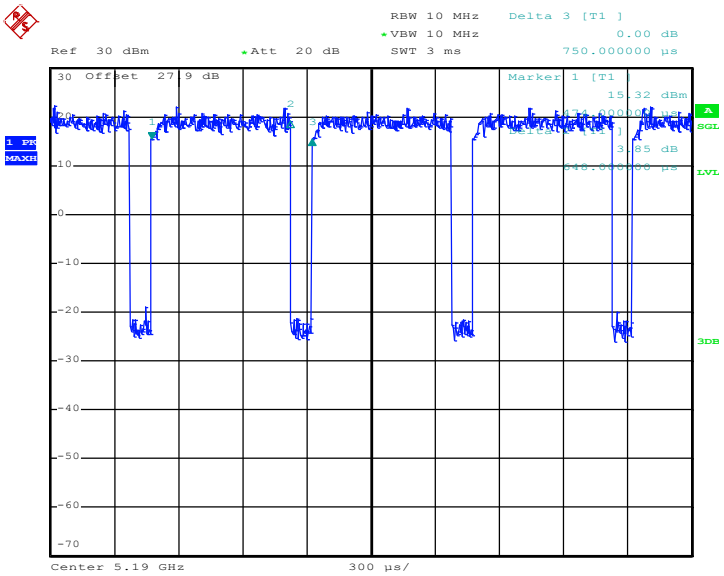
Date: 26.JUN.2018 04:42:16

802.11ac VHT20



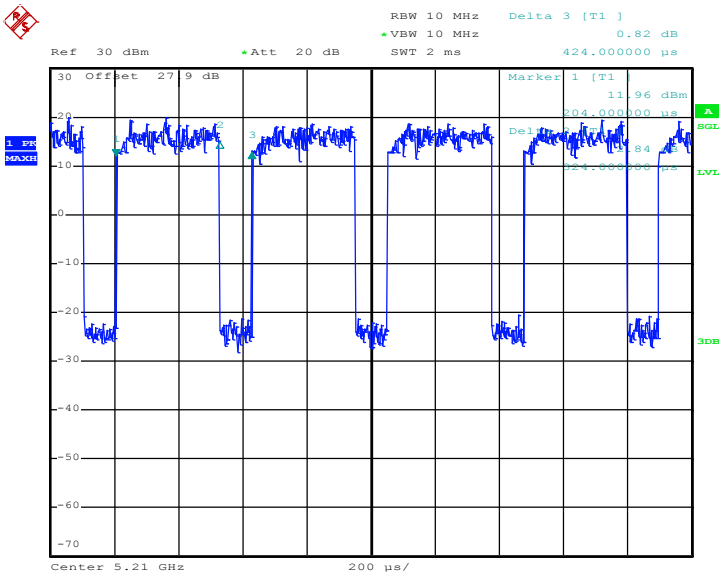
Date: 26.JUN.2018 03:45:41

802.11ac VHT40



Date: 26.JUN.2018 05:52:26

802.11ac VHT80



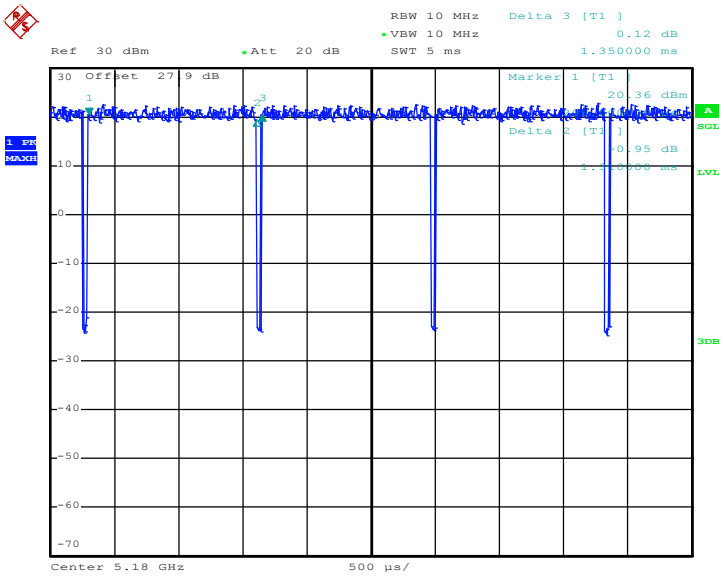
Date: 26.JUN.2018 06:59:14

<TXBF Mode>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	5GHz 802.11ac VHT20	97.04	1310.00	0.76	1kHz	0.13
1+2	5GHz 802.11ac VHT20	97.05	1315.00	0.76	1kHz	0.13
1+2	5GHz 802.11ac VHT40	94.78	654.00	1.53	3kHz	0.23
1+2	5GHz 802.11ac VHT40	94.78	654.00	1.53	3kHz	0.23
1+2	5GHz 802.11ac VHT80	89.89	320.00	3.13	10kHz	0.46
1+2	5GHz 802.11ac VHT80	89.01	324.00	3.09	10kHz	0.51

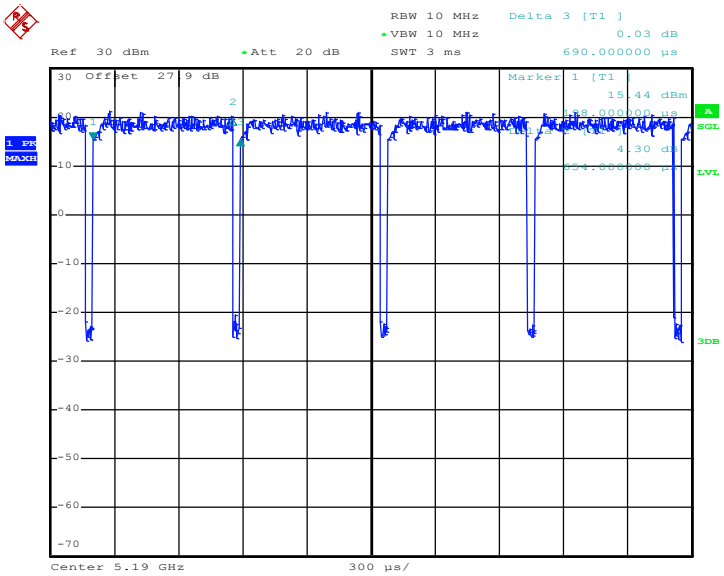
MIMO <Ant. 1>

802.11n HT20



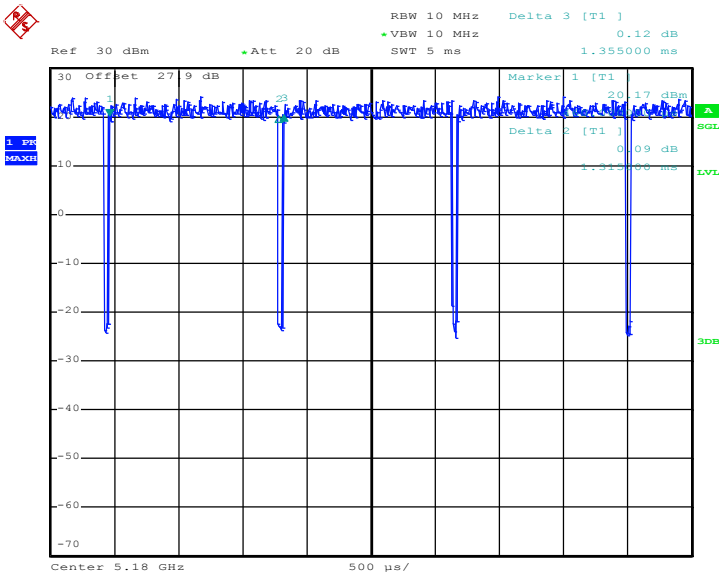
Date: 4.JUL.2018 18:42:35

802.11n HT40



Date: 4.JUL.2018 19:10:26

802.11ac VHT20



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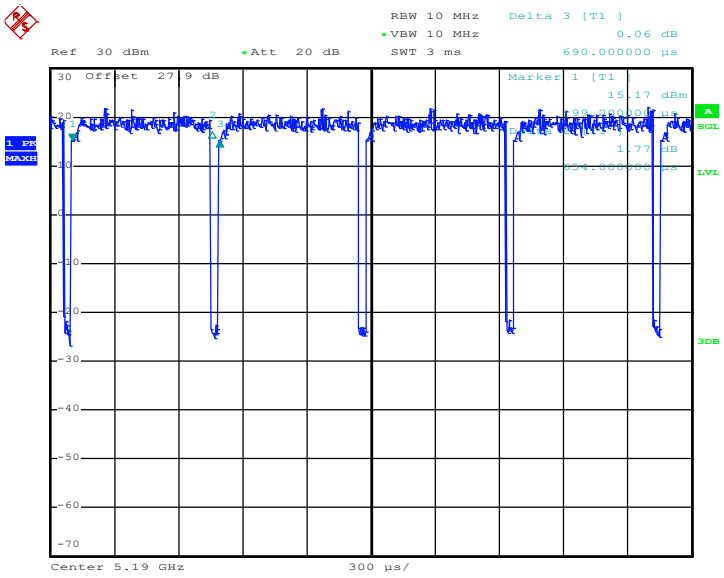
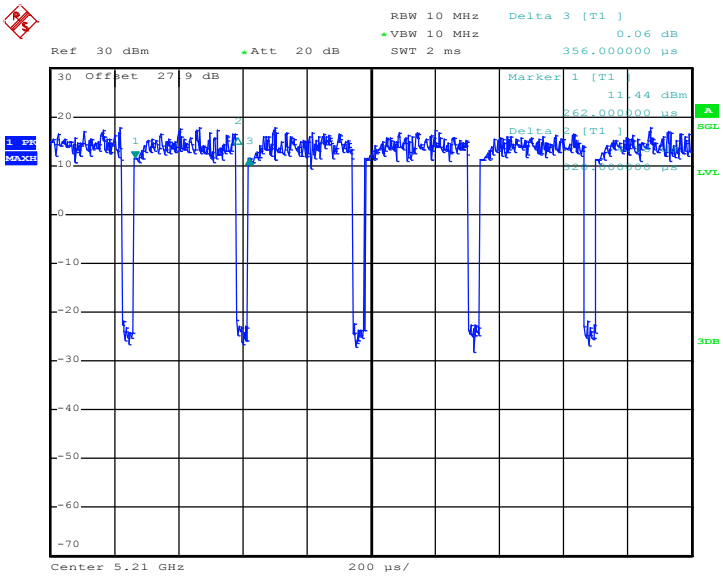
802.11ac VHT40



Date: 4.JUL.2018 19:11:14

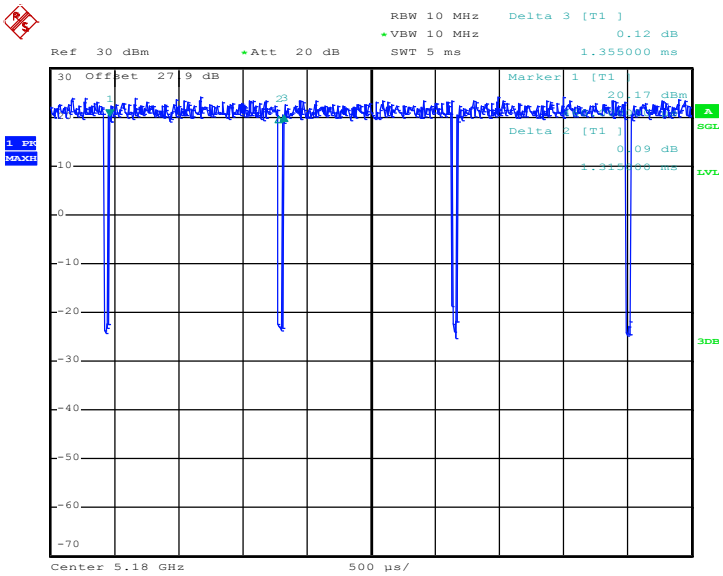
802.11ac VHT80



Date: 4.JUL.2018 19:29:25

MIMO <Ant. 2>

802.11n HT20



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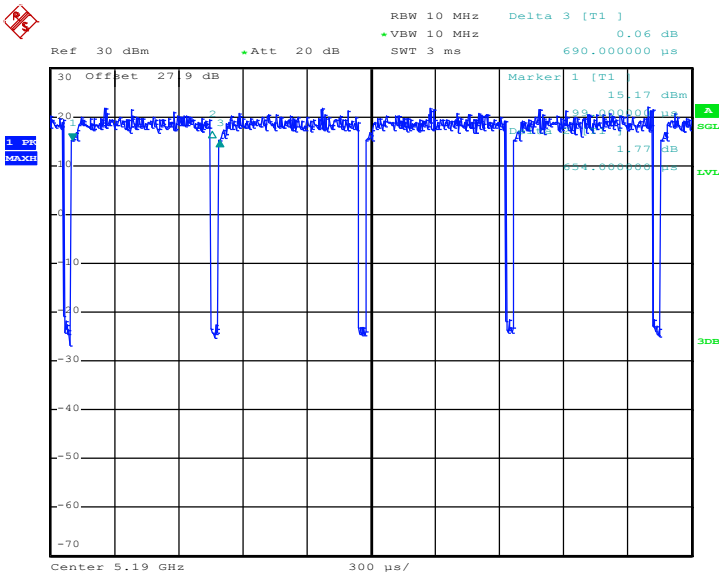
802.11ac VHT40



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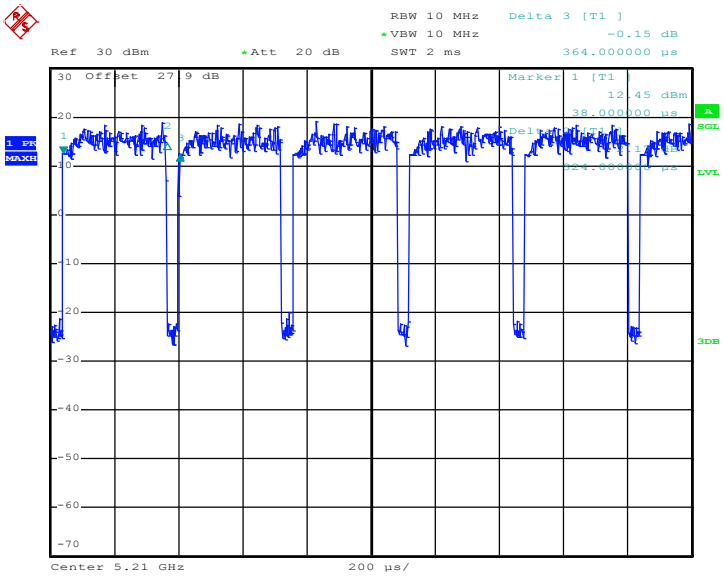
802.11ac VHT80



Date: 4.JUL.2018 19:30:40

THE END