FCC RF Test Report

APPLICANT	:	Quanta Computer Inc.
EQUIPMENT	:	Computing Device with external power supply, battery, WiFi and Bluetooth
MODEL NAME	:	C0A
FCC ID	:	HFSC0A
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The testing was completed on Jun. 09, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR742622E	Rev. 01	Initial issue of report	Aug. 01, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 3.53 dB at 39.180 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.60 dB at 2.870 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Quanta Computer Inc.
No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Computing Device with external power supply, battery, WiFi and Bluetooth
Model Name	C0A
FCC ID	HFSC0A
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>Tx/Rx Channel Frequency Range</td><td>5745 MHz ~ 5825 MHz</td></tr>
<tr><td>Maximum Output Power</td><td><5745 MHz ~ 5825 MHz>
<Ant. 1>
802.11a : 13.98 dBm / 0.0250 W
802.11n HT20 : 13.95 dBm / 0.0248 W
802.11n HT40 : 14.78 dBm / 0.0301 W
802.11ac VHT20: 13.91 dBm / 0.0246 W
802.11ac VHT40: 14.70 dBm / 0.0295 W
802.11ac VHT80: 14.62 dBm / 0.0290 W
<Ant. 2>
802.11a : 14.00 dBm / 0.0251 W
802.11n HT20 : 13.76 dBm / 0.0238 W
802.11n HT40 : 14.77 dBm / 0.0300 W
802.11ac VHT20: 13.83 dBm / 0.0242 W
802.11ac VHT40: 14.66 dBm / 0.0292 W
802.11ac VHT80: 14.76 dBm / 0.0299 W
MIMO <Ant. 1 + 2>
802.11a : 13.99 dBm / 0.0251 W
802.11n HT20 : 13.76 dBm / 0.0238 W
802.11n HT40 : 14.92 dBm / 0.0310 W
802.11ac VHT20: 13.84 dBm / 0.0242 W
802.11ac VHT40: 14.63 dBm / 0.0290 W
802.11ac VHT80: 14.99 dBm / 0.0316 W</td></tr>
<tr><td>99% Occupied Bandwidth</td><td>802.11a : 17.40 MHz
802.11n HT20 : 18.55 MHz
802.11n HT40 : 36.40 MHz
802.11ac VHT80 : 75.84 MHz</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : 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 3.90 dBi
<Ant. 2> : Fixed internal Antenna with gain 1.70 dBi</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><td></td><td>Ant. 1</td><td>Ant. 2</td></tr>
<tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr>
<tr><td>802.11 n/ac MIMO</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.

1.4 Modification of EUT

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

1.5 Testing Location

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

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

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

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

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

1.6 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). The following tables for radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z in tablet mode and Notebook mode The worst cases (Notebook Mode) were recorded in this report.

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

Single Antenna

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

MIMO Antenna

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

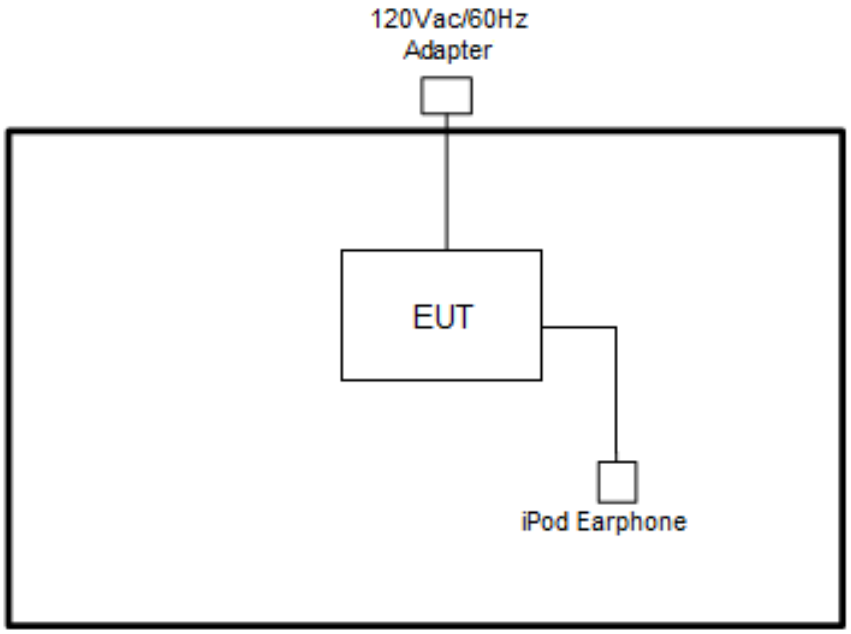
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG 4 + USB port 1_USB Cable (Charging from Adapter) + Laptop mode + Earphone + Resolution (1800*1200) + USB port 2_Type C to DP Cable with TV (Bluetooth earphone output)

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

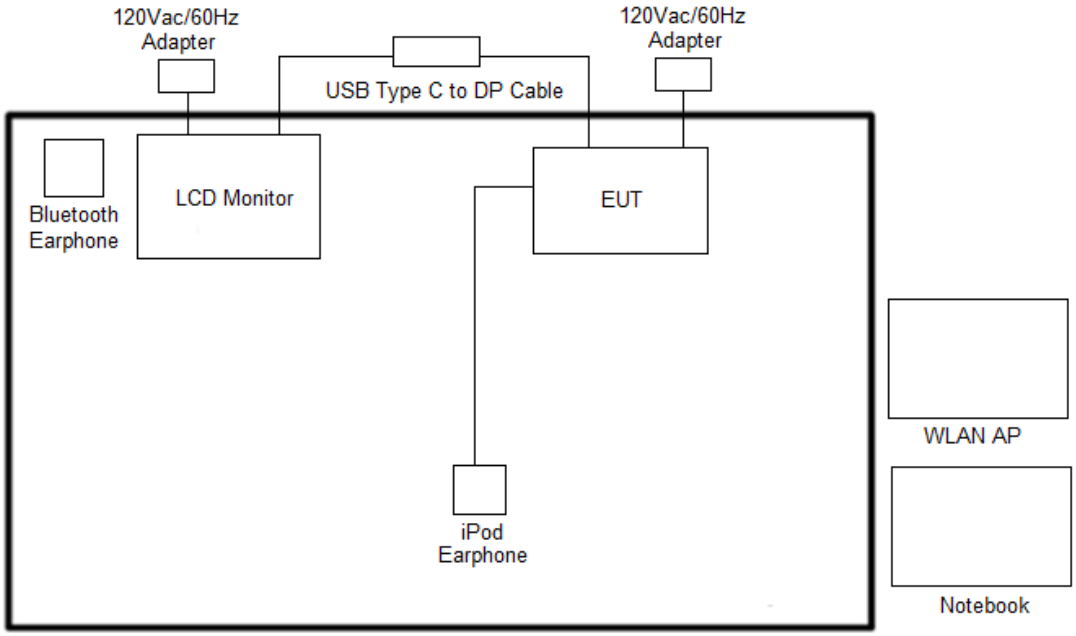
Ch. #		Band IV：5725-5850 MHz		
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m

2.5 EUT Operation Test Setup

The programmed RF utility “DRTU”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

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

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

3.1.3 Test Procedures

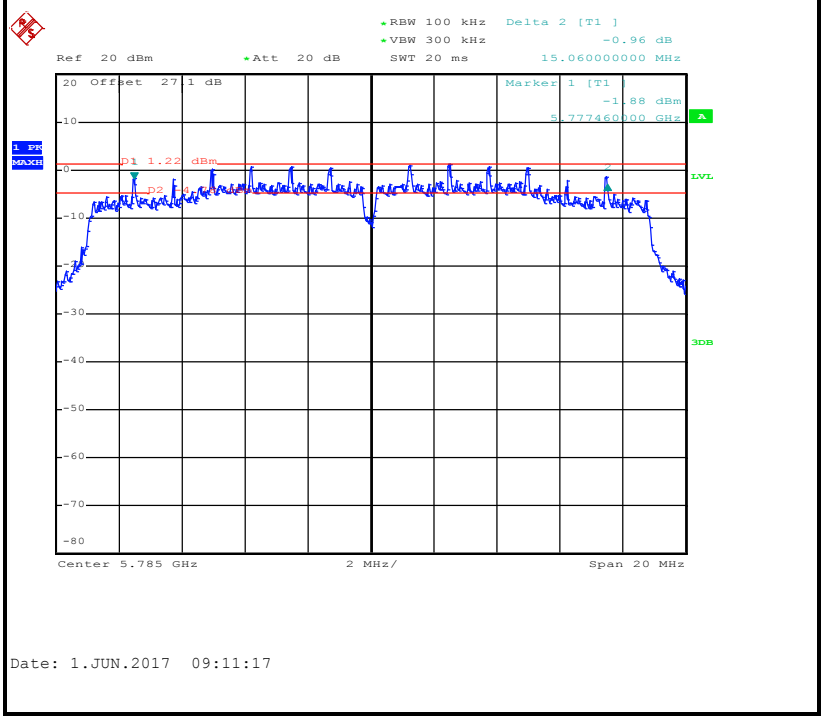
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup

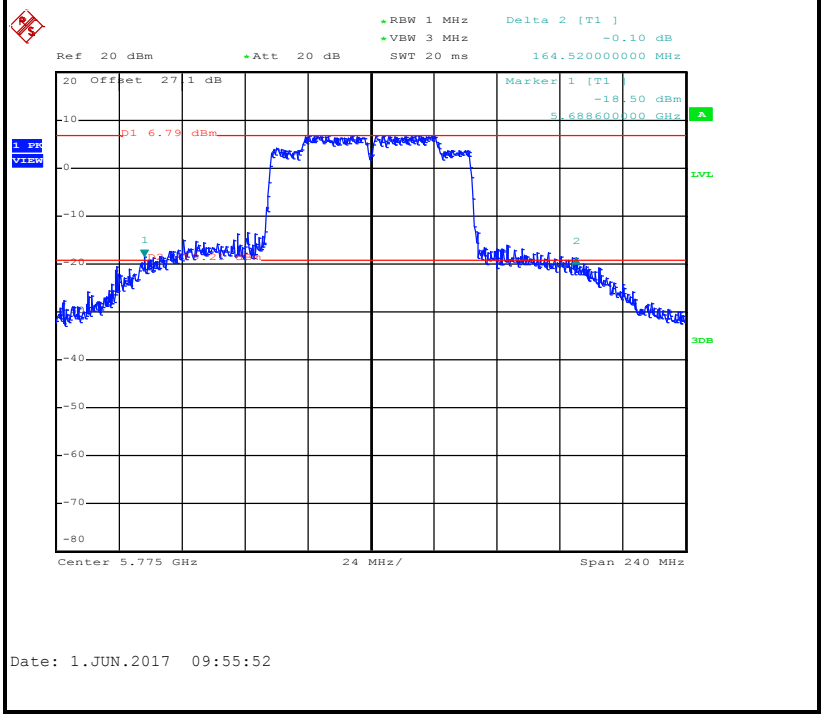
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

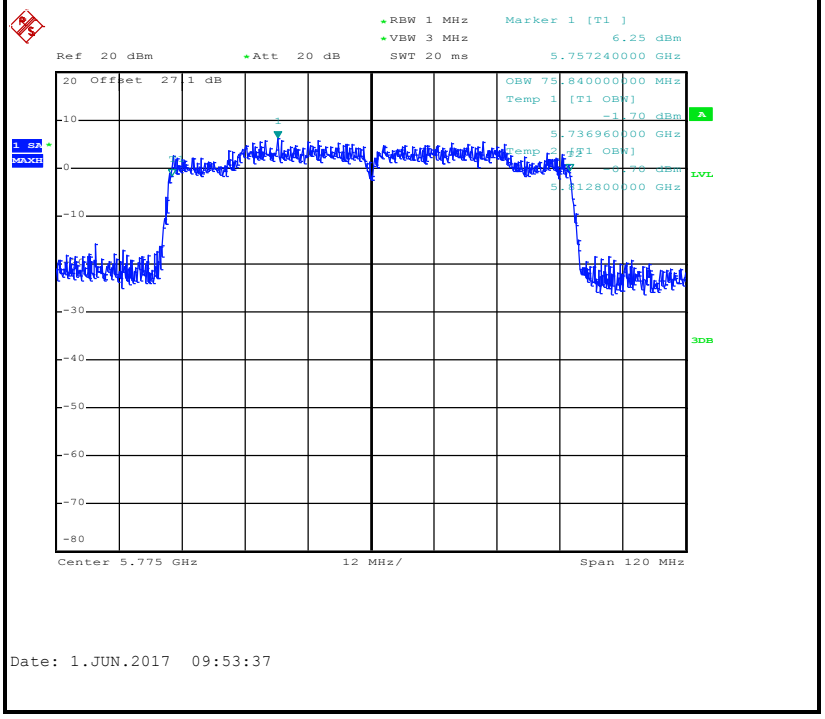
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

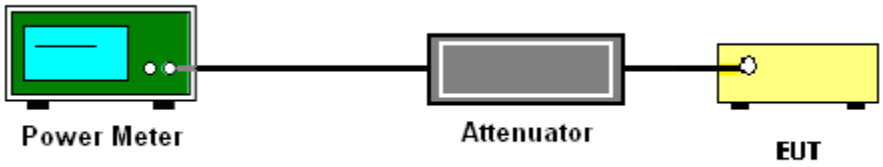
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

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

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section F) Maximum power spectral density.

 # Method SA-2 #

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

- 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.

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.

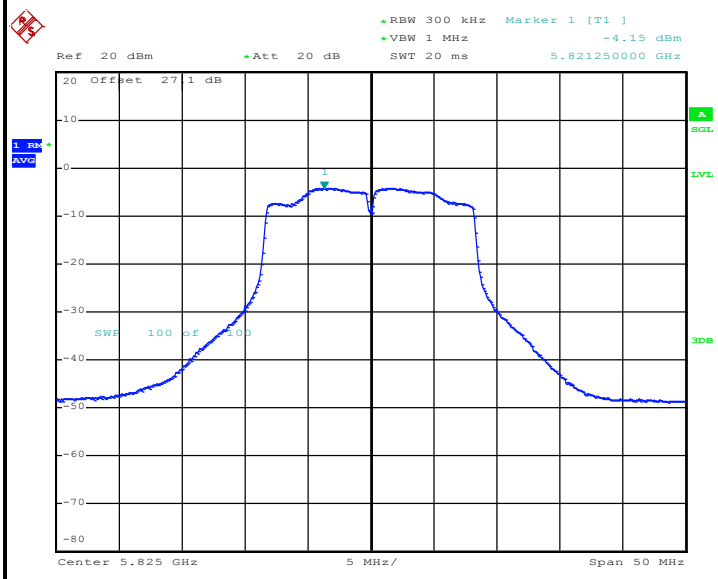
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) 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

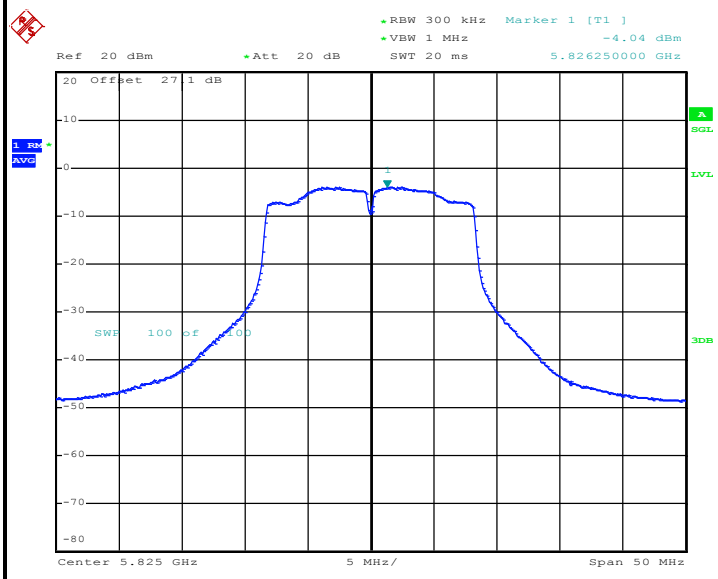
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/300kHz) for MIMO Ant. 1



Worst Case Power Density (dBm/300kHz) for MIMO Ant. 2



3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

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 per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

EIRP (dBm)	Field Strength at 3m (dBµV/m)
-17	78.3
- 27	68.3

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

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

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

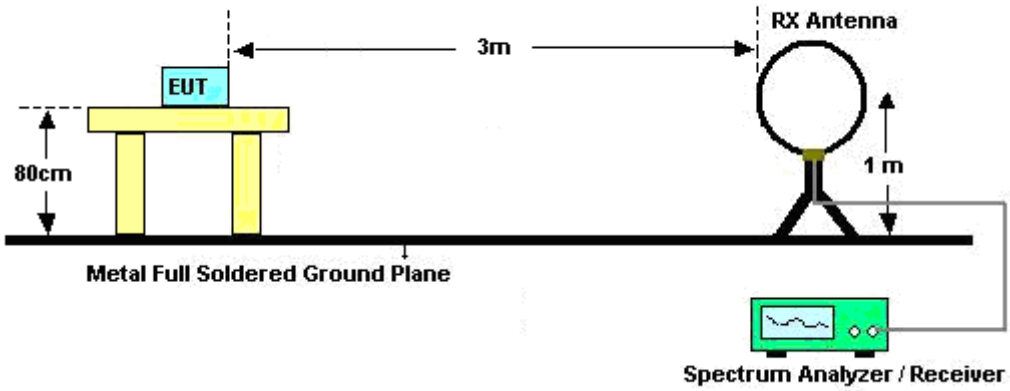
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

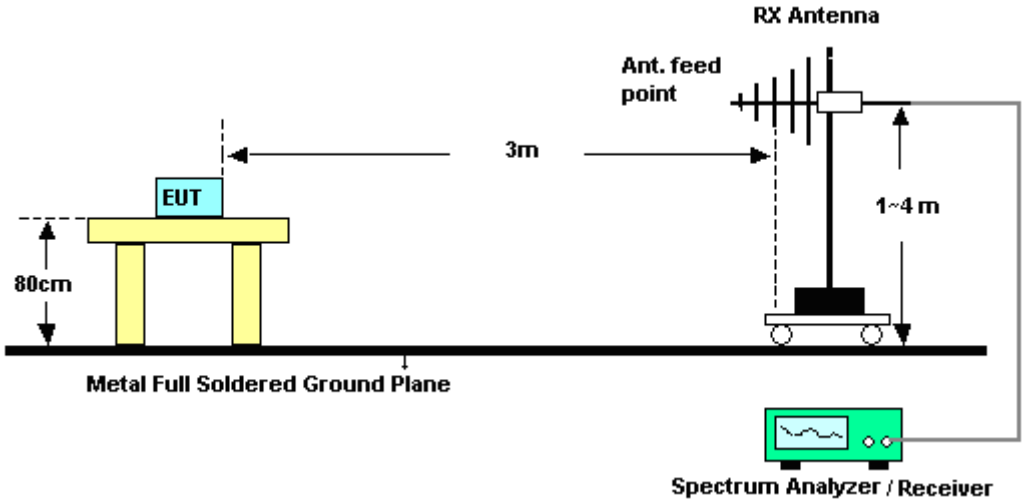
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

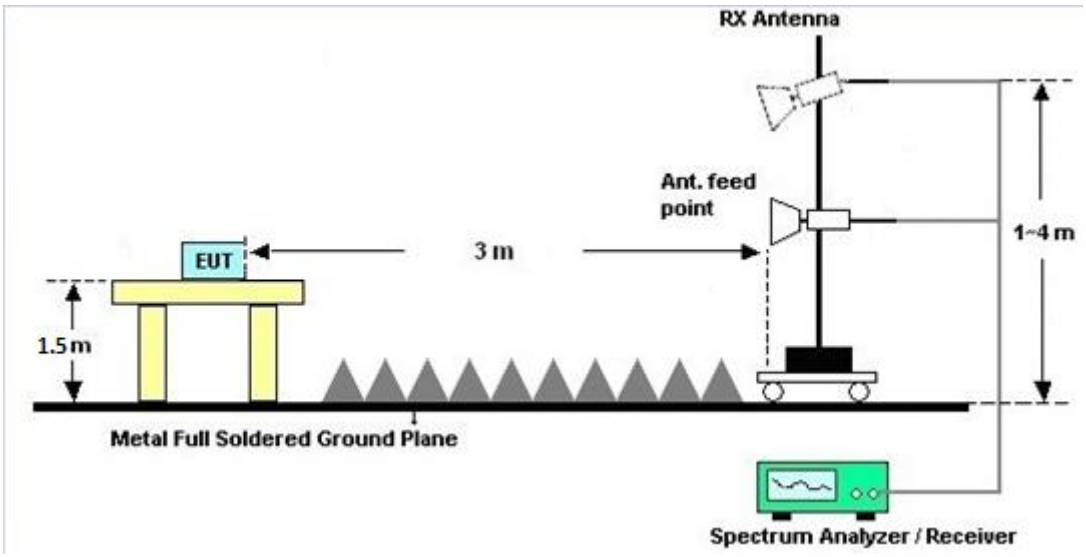
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

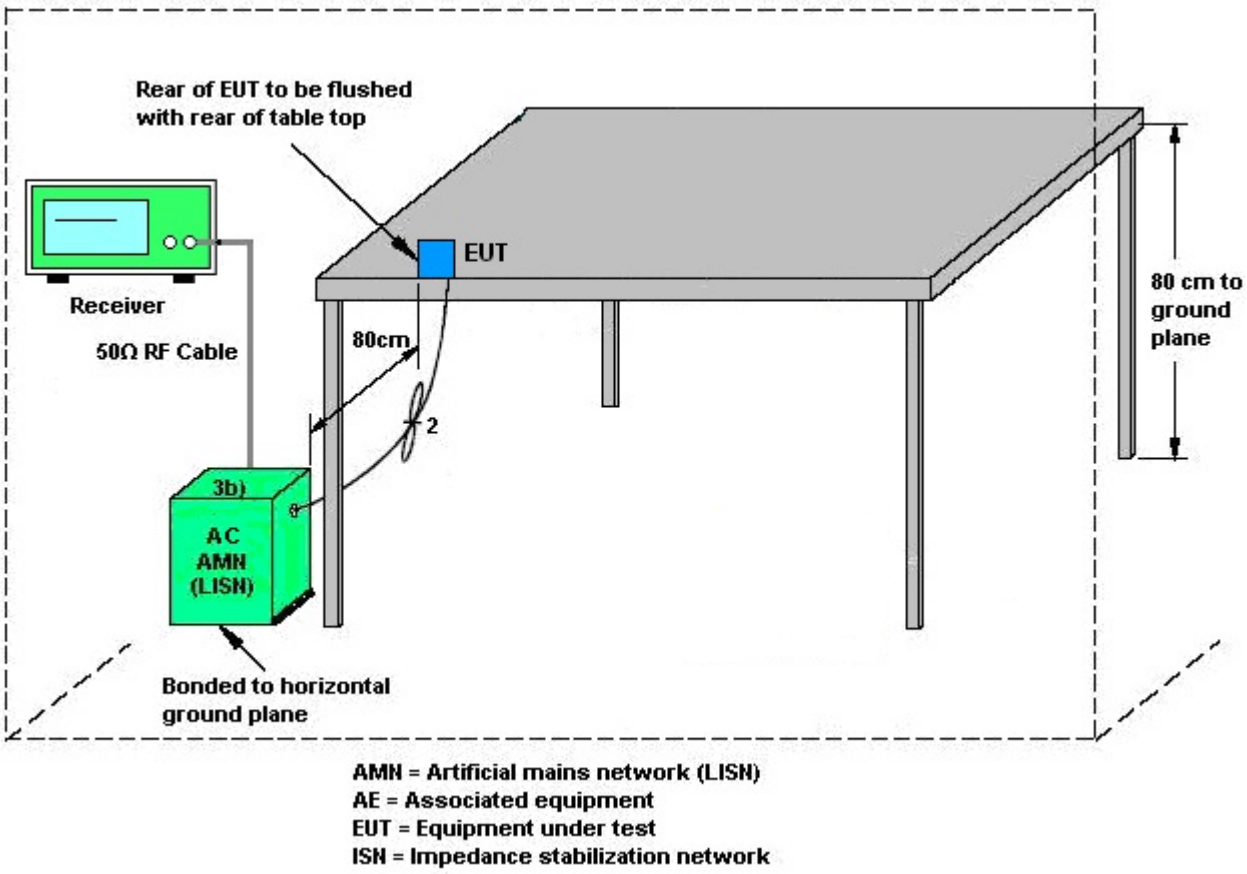
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

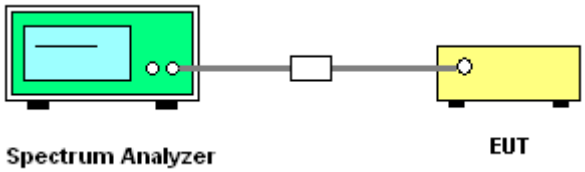
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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.

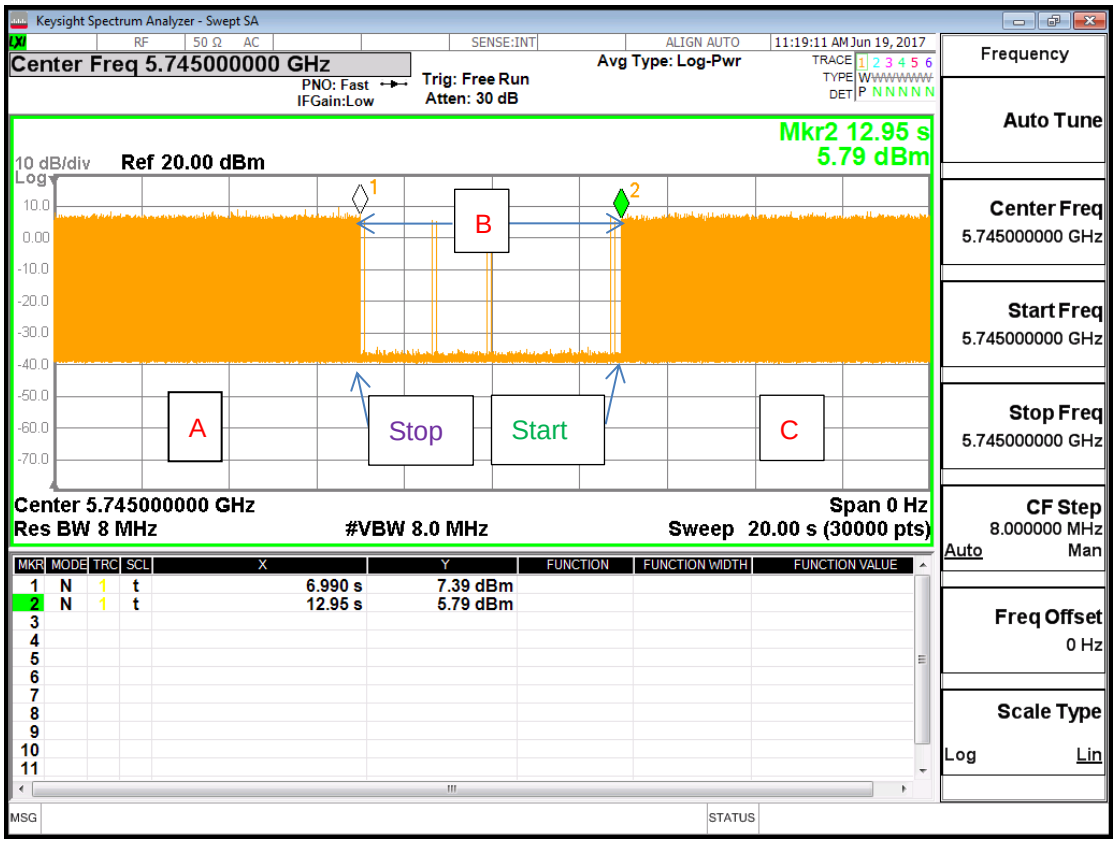
B. Information stop: stop supplying information to the access point.

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.

3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	3.90	1.70	3.90	5.88	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	May 03, 2017 ~ Jun. 09, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	May 03, 2017 ~ Jun. 09, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	May 03, 2017 ~ Jun. 09, 2017	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	May 03, 2017 ~ Jun. 09, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	May 03, 2017 ~ Jun. 09, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 20, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	May 20, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	May 20, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	May 20, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 12, 2016	May 12, 2017 ~ Jun. 08, 2017	Oct. 11, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	May 12, 2017 ~ Jun. 08, 2017	Jan. 11, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	May 12, 2017 ~ Jun. 08, 2017	Oct. 19, 2018	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 15, 2016	May 12, 2017 ~ Jun. 08, 2017	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 07, 2016	May 12, 2017 ~ Jun. 08, 2017	Oct. 06, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	May 12, 2017 ~ Jun. 08, 2017	Nov. 07, 2017	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	May 12, 2017 ~ Jun. 08, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	May 12, 2017 ~ Jun. 08, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800	2025787	1GHz~18GHz	Feb. 13, 2017	May 12, 2017 ~ Jun. 08, 2017	Feb. 12, 2018	Radiation (03CH11-HY)
Preamplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	May 12, 2017 ~ Jun. 08, 2017	Jun. 13, 2017	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 12, 2017 ~ Jun. 08, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 12, 2017 ~ Jun. 08, 2017	N/A	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.5**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2017/5/3 ~ 2017/6/9	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	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	17.20	17.30	25.75	24.70	15.30	15.31	0.5	0.5	Pass
11a	6Mbps	1	157	5785	17.20	17.25	25.35	24.15	15.08	15.28	0.5	0.5	Pass
11a	6Mbps	1	165	5825	17.20	17.25	24.60	24.30	15.08	15.64	0.5	0.5	Pass
HT20	MCS0	1	149	5745	18.50	18.55	26.50	25.20	15.12	15.32	0.5	0.5	Pass
HT20	MCS0	1	157	5785	18.45	18.30	27.10	25.70	15.33	15.10	0.5	0.5	Pass
HT20	MCS0	1	165	5825	18.40	18.35	25.20	25.95	15.10	15.10	0.5	0.5	Pass
HT40	MCS0	1	151	5755	36.40	36.40	44.46	42.66	35.12	35.12	0.5	0.5	Pass
HT40	MCS0	1	159	5795	36.30	36.30	45.00	43.02	35.12	35.12	0.5	0.5	Pass
VHT80	MCS0	1	155	5775	75.60	75.84	137.32	164.52	75.04	75.20	0.5	0.5	Pass
11a	6Mbps	2	149	5745	17.25	17.40	26.15	25.85	15.08	15.10	0.5		Pass
11a	6Mbps	2	157	5785	17.40	17.30	25.65	24.15	15.08	15.10	0.5		Pass
11a	6Mbps	2	165	5825	17.40	17.25	25.35	24.45	15.12	15.10	0.5		Pass
HT20	MCS0	2	149	5745	18.30	18.35	26.25	26.25	15.10	15.44	0.5		Pass
HT20	MCS0	2	157	5785	18.35	18.30	26.10	25.55	15.10	15.06	0.5		Pass
HT20	MCS0	2	165	5825	18.30	18.35	25.95	25.10	15.12	15.08	0.5		Pass
HT40	MCS0	2	151	5755	36.40	36.40	43.92	42.43	35.12	35.12	0.5		Pass
HT40	MCS0	2	159	5795	36.30	36.30	42.35	42.66	35.12	35.12	0.5		Pass
VHT80	MCS0	2	155	5775	75.48	75.72	80.96	107.62	75.04	75.10	0.5		Pass

Report Number : FR742622E

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	0.08	0.06	13.85	13.99		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	1	157	5785	0.08	0.06	13.98	13.97		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	1	165	5825	0.08	0.06	13.91	14.00		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	149	5745	0.07	0.07	13.95	13.73		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	157	5785	0.07	0.07	13.69	13.76		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	165	5825	0.07	0.07	13.65	13.72		30.00	30.00	3.90	1.70	Pass
HT40	MCS0	1	151	5755	0.14	0.14	14.59	14.60		30.00	30.00	3.90	1.70	Pass
HT40	MCS0	1	159	5795	0.14	0.14	14.78	14.77		30.00	30.00	3.90	1.70	Pass
VHT20	MCS0	1	149	5745	0.07	0.07	13.91	13.83		30.00	30.00	3.90	1.70	Pass
VHT20	MCS0	1	157	5785	0.07	0.07	13.52	13.72		30.00	30.00	3.90	1.70	Pass
VHT20	MCS0	1	165	5825	0.07	0.07	13.47	13.70		30.00	30.00	3.90	1.70	Pass
VHT40	MCS0	1	151	5755	0.14	0.14	14.50	14.54		30.00	30.00	3.90	1.70	Pass
VHT40	MCS0	1	159	5795	0.14	0.14	14.70	14.66		30.00	30.00	3.90	1.70	Pass
VHT80	MCS0	1	155	5775	0.27	0.31	14.62	14.76		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	2	149	5745	0.06	0.08	10.71	10.95	13.85	30.00		3.90		Pass
11a	6Mbps	2	157	5785	0.06	0.08	10.75	11.19	13.99	30.00		3.90		Pass
11a	6Mbps	2	165	5825	0.06	0.08	10.72	11.21	13.99	30.00		3.90		Pass
HT20	MCS0	2	149	5745	0.07	0.07	10.76	10.74	13.76	30.00		3.90		Pass
HT20	MCS0	2	157	5785	0.07	0.07	10.32	11.01	13.69	30.00		3.90		Pass
HT20	MCS0	2	165	5825	0.07	0.07	10.35	10.76	13.57	30.00		3.90		Pass
HT40	MCS0	2	151	5755	0.18	0.14	11.79	11.59	14.70	30.00		3.90		Pass
HT40	MCS0	2	159	5795	0.18	0.14	11.61	12.19	14.92	30.00		3.90		Pass
VHT20	MCS0	2	149	5745	0.17	0.13	10.84	10.81	13.84	30.00		3.90		Pass
VHT20	MCS0	2	157	5785	0.17	0.13	10.40	10.78	13.61	30.00		3.90		Pass
VHT20	MCS0	2	165	5825	0.17	0.13	10.29	10.69	13.51	30.00		3.90		Pass
VHT40	MCS0	2	151	5755	0.24	0.27	11.57	11.66	14.63	30.00		3.90		Pass
VHT40	MCS0	2	159	5795	0.24	0.27	11.39	11.68	14.55	30.00		3.90		Pass
VHT80	MCS0	2	155	5775	0.45	0.45	11.95	12.01	14.99	30.00		3.90		Pass

Report Number : FR742622E

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	0.08	0.06	2.22	2.22	0.98	0.81		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	1	157	5785	0.08	0.06	2.22	2.22	1.13	0.93		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	1	165	5825	0.08	0.06	2.22	2.22	0.62	1.10		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	149	5745	0.07	0.07	2.22	2.22	0.48	0.41		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	157	5785	0.07	0.07	2.22	2.22	0.25	0.62		30.00	30.00	3.90	1.70	Pass
HT20	MCS0	1	165	5825	0.07	0.07	2.22	2.22	0.16	0.63		30.00	30.00	3.90	1.70	Pass
HT40	MCS0	1	151	5755	0.14	0.14	2.22	2.22	-2.14	-2.17		30.00	30.00	3.90	1.70	Pass
HT40	MCS0	1	159	5795	0.14	0.14	2.22	2.22	-2.21	-1.82		30.00	30.00	3.90	1.70	Pass
VHT80	MCS0	1	155	5775	0.27	0.31	2.22	2.22	-4.78	-4.69		30.00	30.00	3.90	1.70	Pass
11a	6Mbps	2	149	5745	0.06	0.08	2.22		-1.75	-1.82	1.26	30.00		5.88		Pass
11a	6Mbps	2	157	5785	0.06	0.08	2.22		-2.14	-1.90	1.11	30.00		5.88		Pass
11a	6Mbps	2	165	5825	0.06	0.08	2.22		-1.87	-1.74	1.27	30.00		5.88		Pass
HT20	MCS0	2	149	5745	0.07	0.07	2.22		-2.88	-3.05	0.13	30.00		5.88		Pass
HT20	MCS0	2	157	5785	0.07	0.07	2.22		-3.12	-2.46	0.55	30.00		5.88		Pass
HT20	MCS0	2	165	5825	0.07	0.07	2.22		-2.71	-2.26	0.75	30.00		5.88		Pass
HT40	MCS0	2	151	5755	0.18	0.14	2.22		-4.50	-5.07	-1.49	30.00		5.88		Pass
HT40	MCS0	2	159	5795	0.18	0.14	2.22		-4.67	-4.33	-1.32	30.00		5.88		Pass
VHT80	MCS0	2	155	5775	0.45	0.45	2.22		-7.21	-7.25	-4.20	30.00		5.88		Pass

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

TEST RESULTS DATA
Frequency Stability

Band IV										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	149	5745	5744.950	-0.050	-8.70	50	3.7	
11a	6Mbps	1	149	5745	5744.975	-0.025	-4.35	-30	3.7	
11a	6Mbps	1	149	5745	5744.950	-0.050	-8.70	20	4.2	
11a	6Mbps	1	149	5745	5744.925	-0.075	-13.05	20	3.2	
11a	6Mbps	1	149	5745	5744.950	-0.050	-8.70	20	3.7	

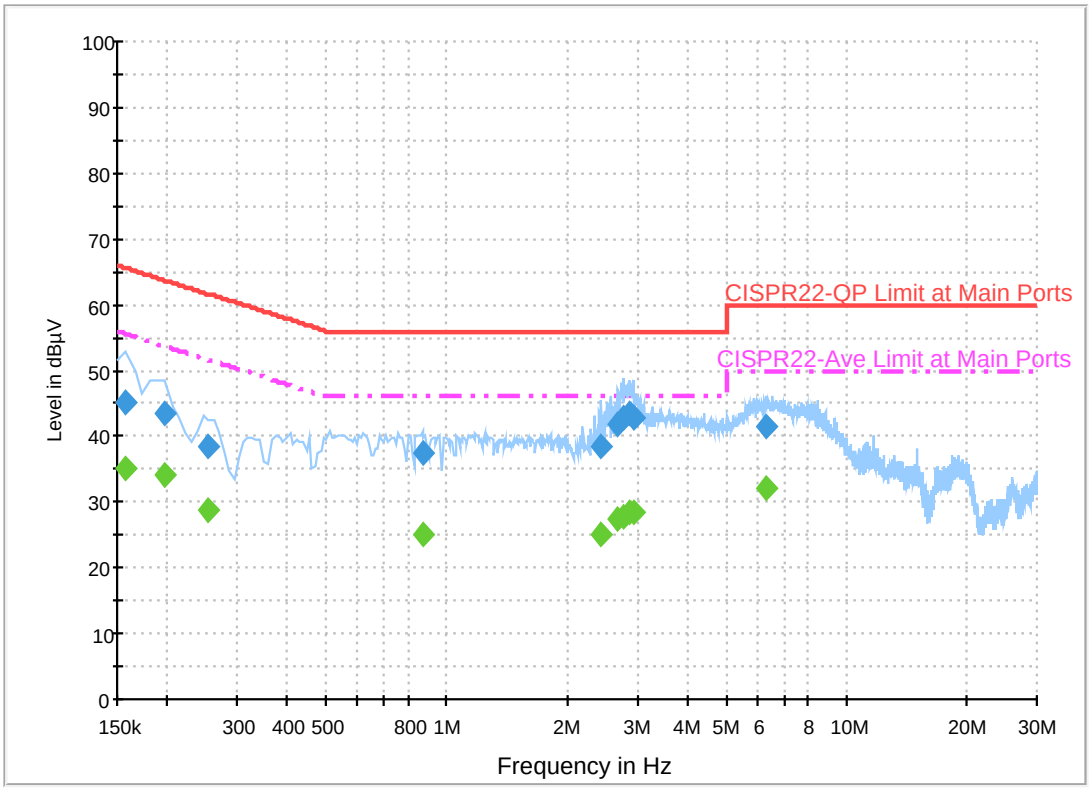
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Eric Jeng	**Temperature :**	22~25℃
		Relative Humidity :	51~54%

EUT Information

Report NO :	742622
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	45.0	Off	L1	19.6	20.6	65.6
0.198000	43.6	Off	L1	19.6	20.1	63.7
0.254000	38.5	Off	L1	19.6	23.1	61.6
0.870000	37.4	Off	L1	19.6	18.6	56.0
2.446000	38.3	Off	L1	19.2	17.7	56.0
2.686000	41.8	Off	L1	19.4	14.2	56.0
2.766000	42.8	Off	L1	19.5	13.2	56.0
2.870000	43.4	Off	L1	19.5	12.6	56.0
2.942000	42.7	Off	L1	19.5	13.3	56.0
6.294000	41.3	Off	L1	19.8	18.7	60.0

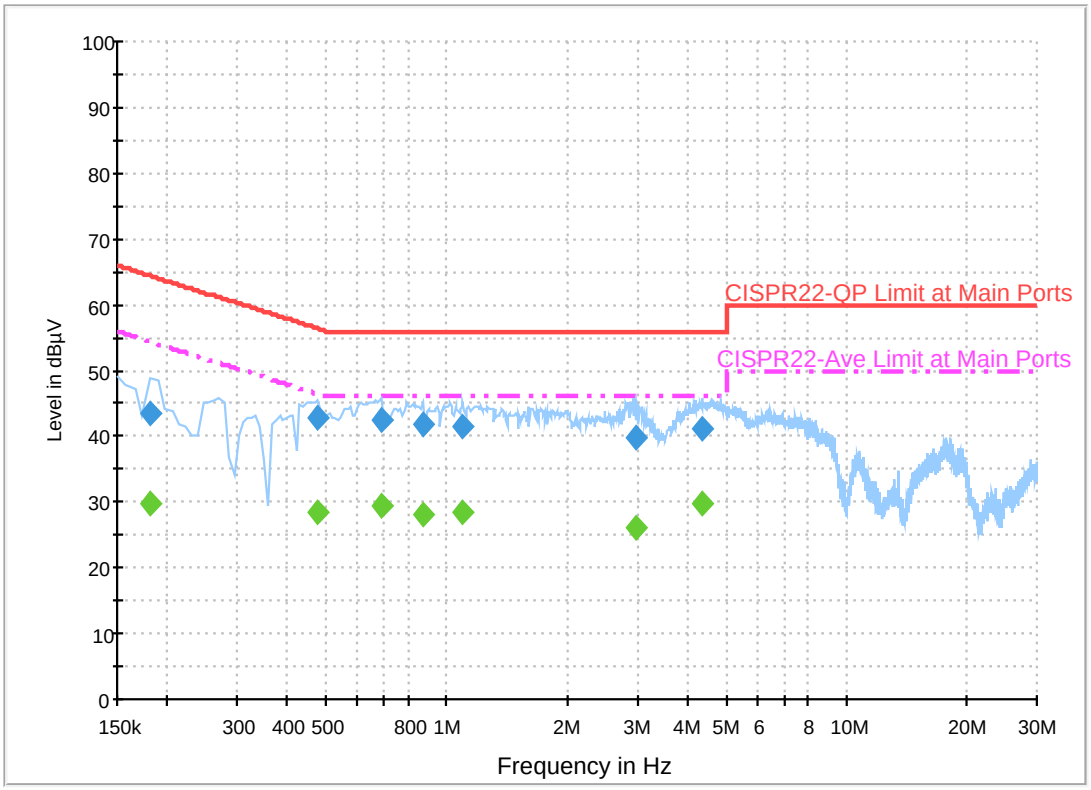
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	35.0	Off	L1	19.6	20.6	55.6
0.198000	33.9	Off	L1	19.6	19.8	53.7
0.254000	28.8	Off	L1	19.6	22.8	51.6
0.870000	25.0	Off	L1	19.6	21.0	46.0
2.446000	25.0	Off	L1	19.2	21.0	46.0
2.686000	27.4	Off	L1	19.4	18.6	46.0
2.766000	27.8	Off	L1	19.5	18.2	46.0
2.870000	28.4	Off	L1	19.5	17.6	46.0
2.942000	28.3	Off	L1	19.5	17.7	46.0
6.294000	32.0	Off	L1	19.8	18.0	50.0

EUT Information

Report NO :	742622
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	43.6	Off	N	19.5	20.8	64.4
0.478000	43.0	Off	N	19.5	13.4	56.4
0.686000	42.4	Off	N	19.5	13.6	56.0
0.878000	41.8	Off	N	19.5	14.2	56.0
1.102000	41.6	Off	N	19.6	14.4	56.0
2.990000	39.7	Off	N	19.5	16.3	56.0
4.350000	41.2	Off	N	19.7	14.8	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	29.9	Off	N	19.5	24.5	54.4
0.478000	28.6	Off	N	19.5	17.8	46.4
0.686000	29.3	Off	N	19.5	16.7	46.0
0.878000	28.1	Off	N	19.5	17.9	46.0
1.102000	28.5	Off	N	19.6	17.5	46.0
2.990000	26.0	Off	N	19.5	20.0	46.0
4.350000	29.9	Off	N	19.7	16.1	46.0

Appendix C. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	Temperature :	20~23°C
		Relative Humidity :	58~63%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable 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		5631.8	53.16	-15.04	68.2	43.99	32.69	9.58	33.1	400	354	P	H
		5693.4	54.93	-45.4	100.33	45.47	32.86	9.72	33.12	400	354	P	H
		5716	55.78	-53.9	109.68	46.24	32.9	9.77	33.13	400	354	P	H
		5725	62.96	-59.24	122.2	53.33	32.94	9.82	33.13	400	354	P	H
	*	5745	110.84	-	-	101.14	32.98	9.87	33.15	400	354	P	H
	*	5745	103.02	-	-	93.32	32.98	9.87	33.15	400	354	A	H
		5623.2	51.22	-16.98	68.2	42.08	32.69	9.53	33.08	307	99	P	V
		5688.2	52.79	-43.71	96.5	43.33	32.86	9.72	33.12	307	99	P	V
		5716.4	54.63	-55.16	109.79	45.09	32.9	9.77	33.13	307	99	P	V
		5724.2	56.62	-63.76	120.38	46.99	32.94	9.82	33.13	307	99	P	V
	*	5745	105.61	-	-	95.91	32.98	9.87	33.15	307	99	P	V
	*	5745	98.11	-	-	88.41	32.98	9.87	33.15	307	99	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5629.6	51.88	-16.32	68.2	42.71	32.69	9.58	33.1	400	354	P	H
		5661.6	53.06	-23.75	76.81	43.78	32.77	9.62	33.11	400	354	P	H
		5714.6	53.18	-56.11	109.29	43.64	32.9	9.77	33.13	400	354	P	H
		5722.8	53.51	-63.67	117.18	43.88	32.94	9.82	33.13	400	354	P	H
	*	5785	111.03	-	-	101.17	33.06	9.97	33.17	400	354	P	H
	*	5785	103.22	-	-	93.36	33.06	9.97	33.17	400	354	A	H
		5852.2	54.28	-62.9	117.18	44.22	33.23	10.02	33.19	400	354	P	H
		5858.6	53.47	-56.32	109.79	43.39	33.27	10.02	33.21	400	354	P	H
		5902.4	53.86	-31.03	84.89	43.71	33.35	10.02	33.22	400	354	P	H
		5940.4	53.47	-14.73	68.2	43.21	33.48	10.02	33.24	400	354	P	H
		5628.8	51.29	-16.91	68.2	42.12	32.69	9.58	33.1	317	96	P	V
		5670	50.8	-32.24	83.04	41.43	32.81	9.67	33.11	317	96	P	V
		5708.6	50.85	-56.76	107.61	41.31	32.9	9.77	33.13	317	96	P	V
		5724.6	50.86	-70.43	121.29	41.23	32.94	9.82	33.13	317	96	P	V
	*	5785	104.55	-	-	94.69	33.06	9.97	33.17	317	96	P	V
	*	5785	96.78	-	-	86.92	33.06	9.97	33.17	317	96	A	V
		5851	50.18	-69.74	119.92	40.12	33.23	10.02	33.19	317	96	P	V
		5865.6	50.79	-57.04	107.83	40.71	33.27	10.02	33.21	317	96	P	V
		5898.4	51.18	-36.67	87.85	41.03	33.35	10.02	33.22	317	96	P	V
		5938.6	51.02	-17.18	68.2	40.76	33.48	10.02	33.24	317	96	P	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	110.15	-	-	100.12	33.19	10.02	33.18	400	346	P	H
	*	5825	102.39	-	-	92.36	33.19	10.02	33.18	400	346	A	H
		5851.2	55.13	-64.33	119.46	45.07	33.23	10.02	33.19	400	346	P	H
		5859.8	54.34	-55.11	109.45	44.26	33.27	10.02	33.21	400	346	P	H
		5885.2	53.3	-44.33	97.63	43.19	33.31	10.02	33.22	400	346	P	H
		5948.2	53.26	-14.94	68.2	43	33.48	10.02	33.24	400	346	P	H
	*	5825	103.02	-	-	92.99	33.19	10.02	33.18	301	71	P	V
	*	5825	95.35	-	-	85.32	33.19	10.02	33.18	301	71	A	V
		5853.6	50.59	-63.4	113.99	40.49	33.27	10.02	33.19	301	71	P	V
		5867.4	50.54	-56.79	107.33	40.46	33.27	10.02	33.21	301	71	P	V
		5897.8	50.06	-38.23	88.29	39.91	33.35	10.02	33.22	301	71	P	V
		5934.8	50.88	-17.32	68.2	40.67	33.43	10.02	33.24	301	71	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. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.98	-28.02	74	56.77	38.52	15.8	65.39	100	0	P	H
		17235	55.94	-12.26	68.2	59.23	40.76	19.86	64.27	100	0	P	H
		11490	44.44	-29.56	74	55.51	38.52	15.8	65.39	100	0	P	V
		17235	58.68	-9.52	68.2	61.97	40.76	19.86	64.27	100	0	P	V
802.11a CH 157 5785MHz		11570	46.69	-27.31	74	57.35	38.56	15.87	65.37	100	0	P	H
		17355	53.83	-14.37	68.2	56.97	40.69	19.91	64.11	100	0	P	H
		11570	44.74	-29.26	74	55.4	38.56	15.87	65.37	100	0	P	V
		17355	52.07	-16.13	68.2	55.21	40.69	19.91	64.11	100	0	P	V
802.11a CH 165 5825MHz		11650	45.73	-28.27	74	56.24	38.61	15.94	65.34	100	0	P	H
		17475	56.12	-12.08	68.2	59.12	40.62	19.95	63.95	100	0	P	H
		11650	45.98	-28.02	74	56.77	38.61	15.94	65.34	100	0	P	V
		17475	59.02	-9.18	68.2	62.02	40.62	19.95	63.95	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5639	51.42	-16.78	68.2	42.21	32.73	9.58	33.1	400	357	P	H
		5695.6	53.79	-48.17	101.96	44.33	32.86	9.72	33.12	400	357	P	H
		5720	56.51	-54.29	110.8	46.88	32.94	9.82	33.13	400	357	P	H
		5721.6	62.65	-51.8	114.45	53.02	32.94	9.82	33.13	400	357	P	H
802.11n	*	5745	110.01	-	-	100.31	32.98	9.87	33.15	400	357	P	H
HT20	*	5745	102.27	-	-	92.57	32.98	9.87	33.15	400	357	A	H
CH 149		5613	50.29	-17.91	68.2	41.19	32.65	9.53	33.08	300	99	P	V
5745MHz		5689.2	52.97	-44.27	97.24	43.51	32.86	9.72	33.12	300	99	P	V
		5719.8	53.27	-57.47	110.74	43.64	32.94	9.82	33.13	300	99	P	V
		5724.4	57.65	-63.18	120.83	48.02	32.94	9.82	33.13	300	99	P	V
	*	5745	104.64	-	-	94.94	32.98	9.87	33.15	300	99	P	V
	*	5745	97.01	-	-	87.31	32.98	9.87	33.15	300	99	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5622.4	51.12	-17.08	68.2	41.98	32.69	9.53	33.08	400	353	P	H
		5672.2	52.67	-32	84.67	43.3	32.81	9.67	33.11	400	353	P	H
		5718.6	53.15	-57.26	110.41	43.52	32.94	9.82	33.13	400	353	P	H
		5724.2	53.6	-66.78	120.38	43.97	32.94	9.82	33.13	400	353	P	H
	*	5785	110.5	-	-	100.64	33.06	9.97	33.17	400	353	P	H
	*	5785	102.33	-	-	92.47	33.06	9.97	33.17	400	353	A	H
		5853	51.43	-63.93	115.36	41.37	33.23	10.02	33.19	400	353	P	H
		5863	53.64	-54.92	108.56	43.56	33.27	10.02	33.21	400	353	P	H
802.11n		5908	53.71	-27.03	80.74	43.52	33.39	10.02	33.22	400	353	P	H
HT20		5934	52.22	-15.98	68.2	42	33.43	10.02	33.23	400	353	P	H
CH 157		5641.2	49.45	-18.75	68.2	40.24	32.73	9.58	33.1	312	55	P	V
5785MHz		5678.6	49.69	-39.71	89.4	40.32	32.81	9.67	33.11	312	55	P	V
		5711	49.91	-58.37	108.28	40.37	32.9	9.77	33.13	312	55	P	V
		5723.4	50.63	-67.92	118.55	41	32.94	9.82	33.13	312	55	P	V
	*	5785	103.18	-	-	93.32	33.06	9.97	33.17	312	55	P	V
	*	5785	95.62	-	-	85.76	33.06	9.97	33.17	312	55	A	V
		5854	49.98	-63.1	113.08	39.88	33.27	10.02	33.19	312	55	P	V
		5868.4	51.9	-55.15	107.05	41.82	33.27	10.02	33.21	312	55	P	V
		5904.4	50.72	-32.69	83.41	40.57	33.35	10.02	33.22	312	55	P	V
		5945.6	50.27	-17.93	68.2	40.01	33.48	10.02	33.24	312	55	P	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	109.3	-	-	99.27	33.19	10.02	33.18	400	345	P	H
	*	5825	101.44	-	-	91.41	33.19	10.02	33.18	400	345	A	H
		5853.8	54.72	-58.82	113.54	44.62	33.27	10.02	33.19	400	345	P	H
		5855.6	54.41	-56.22	110.63	44.31	33.27	10.02	33.19	400	345	P	H
		5881.6	53.36	-46.94	100.3	43.24	33.31	10.02	33.21	400	345	P	H
		5949.2	52.08	-16.12	68.2	41.82	33.48	10.02	33.24	400	345	P	H
	*	5825	102.8	-	-	92.77	33.19	10.02	33.18	306	56	P	V
	*	5825	94.82	-	-	84.79	33.19	10.02	33.18	306	56	A	V
		5850.4	50.87	-70.42	121.29	40.81	33.23	10.02	33.19	306	56	P	V
		5859.6	50.43	-59.08	109.51	40.35	33.27	10.02	33.21	306	56	P	V
		5876.4	51.33	-52.83	104.16	41.21	33.31	10.02	33.21	306	56	P	V
		5946.2	50.64	-17.56	68.2	40.38	33.48	10.02	33.24	306	56	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. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11490	45.78	-28.22	74	56.57	38.52	15.8	65.39	100	0	P	H
HT20		17235	57.45	-10.75	68.2	60.74	40.76	19.86	64.27	100	0	P	H
CH 149		11490	46.64	-27.36	74	57.71	38.52	15.8	65.39	100	0	P	V
5745MHz		17235	58.9	-9.3	68.2	62.19	40.76	19.86	64.27	100	0	P	V
802.11n		11570	45.65	-28.35	74	56.31	38.56	15.87	65.37	100	0	P	H
HT20		17355	53.48	-14.72	68.2	56.62	40.69	19.91	64.11	100	0	P	H
CH 157		11570	45.12	-28.88	74	56.06	38.56	15.87	65.37	100	0	P	V
5785MHz		17355	53.71	-14.49	68.2	56.85	40.69	19.91	64.11	100	0	P	V
802.11n		11650	45.61	-28.39	74	56.12	38.61	15.94	65.34	100	0	P	H
HT20		17475	54.32	-13.88	68.2	57.32	40.62	19.95	63.95	100	0	P	H
CH 165		11650	45.46	-28.54	74	56.25	38.61	15.94	65.34	100	0	P	V
5825MHz		17475	57.73	-10.47	68.2	60.73	40.62	19.95	63.95	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5637.4	52.51	-15.69	68.2	43.3	32.73	9.58	33.1	400	352	P	H
		5699.6	55.97	-48.94	104.91	46.46	32.86	9.77	33.12	400	352	P	H
		5719.4	60.94	-49.69	110.63	51.31	32.94	9.82	33.13	400	352	P	H
		5723	63.27	-54.37	117.64	53.64	32.94	9.82	33.13	400	352	P	H
	*	5755	107.27	-	-	97.48	33.02	9.92	33.15	400	352	P	H
	*	5755	99.49	-	-	89.7	33.02	9.92	33.15	400	352	A	H
		5852	53.06	-64.58	117.64	43	33.23	10.02	33.19	400	352	P	H
		5867.4	52.93	-54.4	107.33	42.85	33.27	10.02	33.21	400	352	P	H
802.11n		5902.2	52.86	-32.17	85.03	42.71	33.35	10.02	33.22	400	352	P	H
HT40		5930.2	51.81	-16.39	68.2	41.59	33.43	10.02	33.23	400	352	P	H
CH 151		5600	50.97	-17.23	68.2	41.91	32.65	9.48	33.07	303	99	P	V
5755MHz		5698.6	54.07	-50.1	104.17	44.61	32.86	9.72	33.12	303	99	P	V
		5718.4	55.5	-54.85	110.35	45.87	32.94	9.82	33.13	303	99	P	V
		5723.8	59.53	-59.93	119.46	49.9	32.94	9.82	33.13	303	99	P	V
	*	5755	102.44	-	-	92.65	33.02	9.92	33.15	303	99	P	V
	*	5755	94.04	-	-	84.25	33.02	9.92	33.15	303	99	A	V
		5850.2	49.42	-72.32	121.74	39.36	33.23	10.02	33.19	303	99	P	V
		5865.6	50.3	-57.53	107.83	40.22	33.27	10.02	33.21	303	99	P	V
		5906.2	51.36	-30.72	82.08	41.17	33.39	10.02	33.22	303	99	P	V
		5937.2	49.32	-18.88	68.2	39.11	33.43	10.02	33.24	303	99	P	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5626.8	52.03	-16.17	68.2	42.89	32.69	9.53	33.08	400	354	P	H
		5696	53.87	-48.38	102.25	44.41	32.86	9.72	33.12	400	354	P	H
		5711.8	54.32	-54.19	108.51	44.78	32.9	9.77	33.13	400	354	P	H
		5724	54.4	-65.52	119.92	44.77	32.94	9.82	33.13	400	354	P	H
	*	5795	107.58	-	-	97.64	33.1	10.01	33.17	400	354	P	H
	*	5795	100.12	-	-	90.18	33.1	10.01	33.17	400	354	A	H
		5852.8	53.87	-61.95	115.82	43.81	33.23	10.02	33.19	400	354	P	H
		5861	54.81	-54.31	109.12	44.73	33.27	10.02	33.21	400	354	P	H
		5882	53.96	-46.04	100	43.84	33.31	10.02	33.21	400	354	P	H
		5927.4	52.86	-15.34	68.2	42.64	33.43	10.02	33.23	400	354	P	H
		5640.8	51.09	-17.11	68.2	41.88	32.73	9.58	33.1	316	97	P	V
		5691.6	51.16	-47.85	99.01	41.7	32.86	9.72	33.12	316	97	P	V
		5710.2	52.25	-55.81	108.06	42.71	32.9	9.77	33.13	316	97	P	V
		5720	51.4	-59.4	110.8	41.77	32.94	9.82	33.13	316	97	P	V
	*	5795	100.49	-	-	90.55	33.1	10.01	33.17	316	97	P	V
	*	5795	93.33	-	-	83.39	33.1	10.01	33.17	316	97	A	V
		5851.4	50.84	-68.17	119.01	40.78	33.23	10.02	33.19	316	97	P	V
		5862.6	52.34	-56.33	108.67	42.26	33.27	10.02	33.21	316	97	P	V
		5880.2	50.62	-50.72	101.34	40.5	33.31	10.02	33.21	316	97	P	V
		5927.4	50.09	-18.11	68.2	39.87	33.43	10.02	33.23	316	97	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. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11510	44.89	-29.11	74	55.68	38.5	15.83	65.4	100	0	P	H
HT40		17265	53.01	-15.19	68.2	56.26	40.74	19.88	64.23	100	0	P	H
CH 151		11510	45.11	-28.89	74	56.18	38.5	15.83	65.4	100	0	P	V
5755MHz		17265	53.96	-14.24	68.2	57.21	40.74	19.88	64.23	100	0	P	V
802.11n		11590	46.47	-27.53	74	57.1	38.57	15.89	65.37	100	0	P	H
HT40		17385	52.31	-15.89	68.2	55.41	40.67	19.92	64.06	100	0	P	H
CH 159		11590	45.42	-28.58	74	56.33	38.57	15.89	65.37	100	0	P	V
5795MHz		17385	52.8	-15.4	68.2	55.9	40.67	19.92	64.06	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5642.2	56.32	-11.88	68.2	47.11	32.73	9.58	33.1	400	354	P	H
		5694	72.01	-28.77	100.78	62.55	32.86	9.72	33.12	400	354	P	H
		5717	75.75	-34.21	109.96	66.21	32.9	9.77	33.13	400	354	P	H
		5721	76.15	-36.93	113.08	66.52	32.94	9.82	33.13	400	354	P	H
	*	5775	104.93	-	-	95.06	33.06	9.97	33.16	400	354	P	H
	*	5775	97.82	-	-	87.95	33.06	9.97	33.16	400	354	A	H
		5854.8	73.16	-38.1	111.26	63.06	33.27	10.02	33.19	400	354	P	H
		5855.6	72.93	-37.7	110.63	62.83	33.27	10.02	33.19	400	354	P	H
		5875.6	63.3	-41.45	104.75	53.18	33.31	10.02	33.21	400	354	P	H
		5933	55.01	-13.19	68.2	44.79	33.43	10.02	33.23	400	354	P	H
		5648.6	54.03	-14.17	68.2	44.78	32.73	9.62	33.1	303	99	P	V
		5698.4	69.4	-34.62	104.02	59.94	32.86	9.72	33.12	303	99	P	V
		5718.2	73.14	-37.16	110.3	63.51	32.94	9.82	33.13	303	99	P	V
		5725	71.91	-50.29	122.2	62.28	32.94	9.82	33.13	303	99	P	V
	*	5775	99.64	-	-	89.77	33.06	9.97	33.16	303	99	P	V
	*	5775	92.65	-	-	82.78	33.06	9.97	33.16	303	99	A	V
		5852.8	64.97	-50.85	115.82	54.91	33.23	10.02	33.19	303	99	P	V
		5855	63.34	-47.46	110.8	53.24	33.27	10.02	33.19	303	99	P	V
		5877	58.39	-45.32	103.71	48.27	33.31	10.02	33.21	303	99	P	V
		5949.2	50.83	-17.37	68.2	40.57	33.48	10.02	33.24	303	99	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. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11550	45.84	-28.16	74	56.53	38.54	15.87	65.38	100	0	P	H
VHT80		17325	50.85	-17.35	68.2	54.03	40.71	19.9	64.16	100	0	P	H
CH 155		11550	44.84	-29.16	74	55.81	38.54	15.87	65.38	100	0	P	V
5775MHz		17325	52.28	-15.92	68.2	55.46	40.71	19.9	64.16	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
5GHz 802.11a LF		71.85	21.05	-18.95	40	40.09	12.37	1.06	32.49	-	-	P	H
		244.11	23.29	-22.71	46	35.85	17.8	1.95	32.38	-	-	P	H
		260.04	25.56	-20.44	46	36.02	19.8	2.04	32.38	-	-	P	H
		309.1	25.26	-20.74	46	35.93	19.33	2.28	32.37	-	-	P	H
		678.7	28.76	-17.24	46	31.3	26.54	3.27	32.47	-	-	P	H
		951	33.39	-12.61	46	29.77	30.82	3.82	31.19	100	0	P	H
		38.91	28.23	-11.77	40	40.18	19.85	0.68	32.49	100	0	P	V
		75.9	21.45	-18.55	40	40.08	12.61	1.22	32.48	-	-	P	V
		148.53	21.53	-21.97	43.5	35.16	17.12	1.61	32.44	-	-	P	V
		750.1	30.32	-15.68	46	30.95	28.13	3.44	32.33	-	-	P	V
		860.7	32.47	-13.53	46	31.09	29.42	3.67	31.86	-	-	P	V
		937.7	33.24	-12.76	46	30.27	30.29	3.82	31.31	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5649	52.85	-15.35	68.2	43.6	32.73	9.62	33.1	400	360	P	H
		5689.2	54.37	-42.87	97.24	44.91	32.86	9.72	33.12	400	360	P	H
		5719.8	58.66	-52.08	110.74	49.03	32.94	9.82	33.13	400	360	P	H
		5720.4	58.41	-53.3	111.71	48.78	32.94	9.82	33.13	400	360	P	H
	*	5745	110	-	-	100.3	32.98	9.87	33.15	400	360	P	H
	*	5745	101.32	-	-	91.62	32.98	9.87	33.15	400	360	A	H
		5606	50.29	-17.91	68.2	41.24	32.65	9.48	33.08	300	266	P	V
		5699	52.36	-52.1	104.46	42.9	32.86	9.72	33.12	300	266	P	V
		5716.4	52.97	-56.82	109.79	43.43	32.9	9.77	33.13	300	266	P	V
		5724.8	56.47	-65.27	121.74	46.84	32.94	9.82	33.13	300	266	P	V
	*	5745	104.13	-	-	94.43	32.98	9.87	33.15	300	266	P	V
	*	5745	95.78	-	-	86.08	32.98	9.87	33.15	300	266	A	V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5623.6	52.55	-15.65	68.2	43.41	32.69	9.53	33.08	400	360	P	H
		5671.6	53.18	-31.04	84.22	43.81	32.81	9.67	33.11	400	360	P	H
		5717.6	55.02	-55.11	110.13	45.39	32.94	9.82	33.13	400	360	P	H
		5720.8	55.64	-56.98	112.62	46.01	32.94	9.82	33.13	400	360	P	H
	*	5785	108.16	-	-	98.3	33.06	9.97	33.17	400	360	P	H
	*	5785	99.4	-	-	89.54	33.06	9.97	33.17	400	360	A	H
		5854	52.13	-60.95	113.08	42.03	33.27	10.02	33.19	400	360	P	H
		5860.2	54.31	-55.03	109.34	44.23	33.27	10.02	33.21	400	360	P	H
		5884.4	54.18	-44.04	98.22	44.07	33.31	10.02	33.22	400	360	P	H
		5943.4	52.56	-15.64	68.2	42.3	33.48	10.02	33.24	400	360	P	H
		5620.2	50.78	-17.42	68.2	41.64	32.69	9.53	33.08	289	281	P	V
		5690.2	51.07	-46.9	97.97	41.61	32.86	9.72	33.12	289	281	P	V
		5702	50.79	-54.97	105.76	41.24	32.9	9.77	33.12	289	281	P	V
		5723.2	49.66	-68.44	118.1	40.03	32.94	9.82	33.13	289	281	P	V
	*	5785	103.79	-	-	93.93	33.06	9.97	33.17	289	281	P	V
	*	5785	95.3	-	-	85.44	33.06	9.97	33.17	289	281	A	V
		5850.6	50.65	-70.18	120.83	40.59	33.23	10.02	33.19	289	281	P	V
		5873	51.05	-54.71	105.76	40.93	33.31	10.02	33.21	289	281	P	V
		5920.2	52.14	-19.6	71.74	41.96	33.39	10.02	33.23	289	281	P	V
		5929	51.35	-16.85	68.2	41.13	33.43	10.02	33.23	289	281	P	V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	109.27	-	-	99.24	33.19	10.02	33.18	400	356	P	H
	*	5825	100.58	-	-	90.55	33.19	10.02	33.18	400	356	A	H
		5854.6	56.88	-54.83	111.71	46.78	33.27	10.02	33.19	400	356	P	H
		5868.8	58.56	-48.37	106.93	48.48	33.27	10.02	33.21	400	356	P	H
		5879.8	55.14	-46.49	101.63	45.02	33.31	10.02	33.21	400	356	P	H
		5927	54.9	-13.3	68.2	44.68	33.43	10.02	33.23	400	356	P	H
	*	5825	103.02	-	-	92.99	33.19	10.02	33.18	282	281	P	V
	*	5825	94.69	-	-	84.66	33.19	10.02	33.18	282	281	A	V
		5850.6	52.91	-67.92	120.83	42.85	33.23	10.02	33.19	282	281	P	V
		5869	51.24	-55.64	106.88	41.16	33.27	10.02	33.21	282	281	P	V
		5877.2	52.1	-51.47	103.57	41.98	33.31	10.02	33.21	282	281	P	V
		5941.4	50.92	-17.28	68.2	40.66	33.48	10.02	33.24	282	281	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.18	-28.82	74	55.97	38.52	15.8	65.39	100	0	P	H
		17235	53.7	-14.5	68.2	56.99	40.76	19.86	64.27	100	0	P	H
		11490	44.88	-29.12	74	55.95	38.52	15.8	65.39	100	0	P	V
		17235	55.05	-13.15	68.2	58.34	40.76	19.86	64.27	100	0	P	V
802.11a CH 157 5785MHz		11570	45.63	-28.37	74	56.29	38.56	15.87	65.37	100	0	P	H
		17355	52.09	-16.11	68.2	55.23	40.69	19.91	64.11	100	0	P	H
		11570	45.98	-28.02	74	56.92	38.56	15.87	65.37	100	0	P	V
		17355	49.55	-18.65	68.2	52.69	40.69	19.91	64.11	100	0	P	V
802.11a CH 165 5825MHz		11650	45.51	-28.49	74	56.02	38.61	15.94	65.34	100	0	P	H
		17475	52.03	-16.17	68.2	55.03	40.62	19.95	63.95	100	0	P	H
		11650	45.93	-28.07	74	56.72	38.61	15.94	65.34	100	0	P	V
		17475	50.97	-17.23	68.2	53.97	40.62	19.95	63.95	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5620.2	51.67	-16.53	68.2	42.53	32.69	9.53	33.08	400	360	P	H
		5698.2	54.17	-49.7	103.87	44.71	32.86	9.72	33.12	400	360	P	H
		5718.2	56.31	-53.99	110.3	46.68	32.94	9.82	33.13	400	360	P	H
		5724.6	58.06	-63.23	121.29	48.43	32.94	9.82	33.13	400	360	P	H
802.11n	*	5745	109.26	-	-	99.56	32.98	9.87	33.15	400	360	P	H
HT20	*	5745	100.66	-	-	90.96	32.98	9.87	33.15	400	360	A	H
CH 149		5631.6	50.28	-17.92	68.2	41.11	32.69	9.58	33.1	300	302	P	V
5745MHz		5673	52.86	-32.4	85.26	43.49	32.81	9.67	33.11	300	302	P	V
		5709	51.97	-55.75	107.72	42.43	32.9	9.77	33.13	300	302	P	V
		5723.2	52.97	-65.13	118.1	43.34	32.94	9.82	33.13	300	302	P	V
	*	5745	103.55	-	-	93.85	32.98	9.87	33.15	300	302	P	V
	*	5745	94.82	-	-	85.12	32.98	9.87	33.15	300	302	A	V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5627.6	51.71	-16.49	68.2	42.57	32.69	9.53	33.08	390	0	P	H
		5662.8	54	-23.7	77.7	44.72	32.77	9.62	33.11	390	0	P	H
		5719	53.27	-57.25	110.52	43.64	32.94	9.82	33.13	390	0	P	H
		5722	53.1	-62.26	115.36	43.47	32.94	9.82	33.13	390	0	P	H
	*	5785	108.2	-	-	98.34	33.06	9.97	33.17	390	0	P	H
	*	5785	99.66	-	-	89.8	33.06	9.97	33.17	390	0	A	H
		5852.2	51.66	-65.52	117.18	41.6	33.23	10.02	33.19	390	0	P	H
		5873	52.2	-53.56	105.76	42.08	33.31	10.02	33.21	390	0	P	H
802.11n		5897.2	53.37	-35.36	88.73	43.22	33.35	10.02	33.22	390	0	P	H
HT20		5944.2	54.65	-13.55	68.2	44.39	33.48	10.02	33.24	390	0	P	H
CH 157		5633.6	50.39	-17.81	68.2	41.18	32.73	9.58	33.1	289	279	P	V
5785MHz		5698.6	50.68	-53.49	104.17	41.22	32.86	9.72	33.12	289	279	P	V
		5714.2	51.37	-57.81	109.18	41.83	32.9	9.77	33.13	289	279	P	V
		5722	50.27	-65.09	115.36	40.64	32.94	9.82	33.13	289	279	P	V
	*	5785	102.9	-	-	93.04	33.06	9.97	33.17	289	279	P	V
	*	5785	94.31	-	-	84.45	33.06	9.97	33.17	289	279	A	V
		5852.4	50.01	-66.72	116.73	39.95	33.23	10.02	33.19	289	279	P	V
		5868.8	50.1	-56.83	106.93	40.02	33.27	10.02	33.21	289	279	P	V
		5876.4	50.99	-53.17	104.16	40.87	33.31	10.02	33.21	289	279	P	V
		5947	51.25	-16.95	68.2	40.99	33.48	10.02	33.24	289	279	P	V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	108.32	-	-	98.29	33.19	10.02	33.18	390	360	P	H
	*	5825	99.52	-	-	89.49	33.19	10.02	33.18	390	360	A	H
		5851	55.53	-64.39	119.92	45.47	33.23	10.02	33.19	390	360	P	H
		5857.8	54.65	-55.36	110.01	44.57	33.27	10.02	33.21	390	360	P	H
		5876.6	54	-50.01	104.01	43.88	33.31	10.02	33.21	390	360	P	H
		5928.6	54.29	-13.91	68.2	44.07	33.43	10.02	33.23	390	360	P	H
	*	5825	102.31	-	-	92.28	33.19	10.02	33.18	300	280	P	V
	*	5825	93.37	-	-	83.34	33.19	10.02	33.18	300	280	A	V
		5850	50.88	-71.32	122.2	40.82	33.23	10.02	33.19	300	280	P	V
		5872.4	51.74	-54.19	105.93	41.62	33.31	10.02	33.21	300	280	P	V
		5921.8	51.76	-18.8	70.56	41.54	33.43	10.02	33.23	300	280	P	V
		5927	51.35	-16.85	68.2	41.13	33.43	10.02	33.23	300	280	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11490	46.77	-27.23	74	57.56	38.52	15.8	65.39	100	0	P	H
HT20		17235	52.77	-15.43	68.2	56.06	40.76	19.86	64.27	100	0	P	H
CH 149		11490	45.58	-28.42	74	56.65	38.52	15.8	65.39	100	0	P	V
5745MHz		17235	52.93	-15.27	68.2	56.22	40.76	19.86	64.27	100	0	P	V
802.11n		11570	46.19	-27.81	74	56.85	38.56	15.87	65.37	100	0	P	H
HT20		17355	50.4	-17.8	68.2	53.54	40.69	19.91	64.11	100	0	P	H
CH 157		11570	46.58	-27.42	74	57.52	38.56	15.87	65.37	100	0	P	V
5785MHz		17355	49.15	-19.05	68.2	52.29	40.69	19.91	64.11	100	0	P	V
802.11n		11650	45.76	-28.24	74	56.27	38.61	15.94	65.34	100	0	P	H
HT20		17475	51.68	-16.52	68.2	54.68	40.62	19.95	63.95	100	0	P	H
CH 165		11650	46.04	-27.96	74	56.83	38.61	15.94	65.34	100	0	P	V
5825MHz		17475	49.72	-18.48	68.2	52.72	40.62	19.95	63.95	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.6	52.79	-15.41	68.2	43.58	32.73	9.58	33.1	400	0	P	H
		5695	59.05	-42.46	101.51	49.59	32.86	9.72	33.12	400	0	P	H
		5713.6	61.31	-47.7	109.01	51.77	32.9	9.77	33.13	400	0	P	H
		5724	64.49	-55.43	119.92	54.86	32.94	9.82	33.13	400	0	P	H
	*	5755	106.77	-	-	96.98	33.02	9.92	33.15	400	0	P	H
	*	5755	97.98	-	-	88.19	33.02	9.92	33.15	400	0	A	H
		5850	54.21	-67.99	122.2	44.15	33.23	10.02	33.19	400	0	P	H
		5864.4	54.96	-53.21	108.17	44.88	33.27	10.02	33.21	400	0	P	H
802.11n		5881	53.82	-46.92	100.74	43.7	33.31	10.02	33.21	400	0	P	H
HT40		5929.8	51.94	-16.26	68.2	41.72	33.43	10.02	33.23	400	0	P	H
CH 151		5624.4	51.4	-16.8	68.2	42.26	32.69	9.53	33.08	300	266	P	V
5755MHz		5697.8	53.26	-50.32	103.58	43.8	32.86	9.72	33.12	300	266	P	V
		5715	57.15	-52.25	109.4	47.61	32.9	9.77	33.13	300	266	P	V
		5720.6	54.7	-57.47	112.17	45.07	32.94	9.82	33.13	300	266	P	V
	*	5755	100.61	-	-	90.82	33.02	9.92	33.15	300	266	P	V
	*	5755	92.44	-	-	82.65	33.02	9.92	33.15	300	266	A	V
		5850.4	50.23	-71.06	121.29	40.17	33.23	10.02	33.19	300	266	P	V
		5860	50.57	-58.83	109.4	40.49	33.27	10.02	33.21	300	266	P	V
		5889.8	52.23	-41.99	94.22	42.08	33.35	10.02	33.22	300	266	P	V
		5927	50.1	-18.1	68.2	39.88	33.43	10.02	33.23	300	266	P	V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5639.6	53.4	-14.8	68.2	44.19	32.73	9.58	33.1	392	2	P	H
		5671	54.83	-28.95	83.78	45.46	32.81	9.67	33.11	392	2	P	H
		5714.8	55.07	-54.28	109.35	45.53	32.9	9.77	33.13	392	2	P	H
		5723	56.41	-61.23	117.64	46.78	32.94	9.82	33.13	392	2	P	H
	*	5795	105.28	-	-	95.34	33.1	10.01	33.17	392	2	P	H
	*	5795	97.18	-	-	87.24	33.1	10.01	33.17	392	2	A	H
		5850.6	53.31	-67.52	120.83	43.25	33.23	10.02	33.19	392	2	P	H
		5873	55.93	-49.83	105.76	45.81	33.31	10.02	33.21	392	2	P	H
		5886.4	56.46	-40.28	96.74	46.35	33.31	10.02	33.22	392	2	P	H
		5927.6	54.18	-14.02	68.2	43.96	33.43	10.02	33.23	392	2	P	H
		5648	50.65	-17.55	68.2	41.4	32.73	9.62	33.1	300	299	P	V
		5688	51.18	-45.17	96.35	41.72	32.86	9.72	33.12	300	299	P	V
		5715.4	52.02	-57.49	109.51	42.48	32.9	9.77	33.13	300	299	P	V
		5721.4	50.28	-63.71	113.99	40.65	32.94	9.82	33.13	300	299	P	V
	*	5795	100.14	-	-	90.2	33.1	10.01	33.17	300	299	P	V
	*	5795	91.15	-	-	81.21	33.1	10.01	33.17	300	299	A	V
		5852.6	51.84	-64.43	116.27	41.78	33.23	10.02	33.19	300	299	P	V
		5858.4	52.58	-57.27	109.85	42.5	33.27	10.02	33.21	300	299	P	V
		5914.8	52.85	-22.87	75.72	42.67	33.39	10.02	33.23	300	299	P	V
		5938.8	50.3	-17.9	68.2	40.04	33.48	10.02	33.24	300	299	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11510	46.47	-27.53	74	57.26	38.5	15.83	65.4	100	0	P	H
HT40		17265	50.39	-17.81	68.2	53.64	40.74	19.88	64.23	100	0	P	H
CH 151		11510	45.92	-28.08	74	56.99	38.5	15.83	65.4	100	0	P	V
5755MHz		17265	49.74	-18.46	68.2	52.99	40.74	19.88	64.23	100	0	P	V
802.11n		11590	45.73	-28.27	74	56.36	38.57	15.89	65.37	100	0	P	H
HT40		17385	50.38	-17.82	68.2	53.48	40.67	19.92	64.06	100	0	P	H
CH 159		11590	45.39	-28.61	74	56.3	38.57	15.89	65.37	100	0	P	V
5795MHz		17385	49.97	-18.23	68.2	53.07	40.67	19.92	64.06	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5628.8	58.57	-9.63	68.2	49.4	32.69	9.58	33.1	396	360	P	H
		5697.6	73.78	-29.65	103.43	64.32	32.86	9.72	33.12	396	360	P	H
		5718	79.23	-31.01	110.24	69.6	32.94	9.82	33.13	396	360	P	H
		5721.6	77.42	-37.03	114.45	67.79	32.94	9.82	33.13	396	360	P	H
	*	5775	104.29	-	-	94.42	33.06	9.97	33.16	396	360	P	H
	*	5775	95.07	-	-	85.2	33.06	9.97	33.16	396	360	A	H
		5851	72.81	-47.11	119.92	62.75	33.23	10.02	33.19	396	360	P	H
		5857	73.03	-37.21	110.24	62.93	33.27	10.02	33.19	396	360	P	H
		5879.8	65.76	-35.87	101.63	55.64	33.31	10.02	33.21	396	360	P	H
		5931	58.9	-9.3	68.2	48.68	33.43	10.02	33.23	396	360	P	H
		5630.2	54.9	-13.3	68.2	45.73	32.69	9.58	33.1	307	267	P	V
		5697.4	71.64	-31.64	103.28	62.18	32.86	9.72	33.12	307	267	P	V
		5709.6	73.47	-34.42	107.89	63.93	32.9	9.77	33.13	307	267	P	V
		5723.4	70.03	-48.52	118.55	60.4	32.94	9.82	33.13	307	267	P	V
	*	5775	98.25	-	-	88.38	33.06	9.97	33.16	307	267	P	V
	*	5775	89.45	-	-	79.58	33.06	9.97	33.16	307	267	A	V
		5852.2	66.54	-50.64	117.18	56.48	33.23	10.02	33.19	307	267	P	V
		5856.4	66.47	-43.94	110.41	56.37	33.27	10.02	33.19	307	267	P	V
		5875	58.02	-47.18	105.2	47.9	33.31	10.02	33.21	307	267	P	V
		5926.2	52.75	-15.45	68.2	42.53	33.43	10.02	33.23	307	267	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. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11550	46.13	-27.87	74	56.82	38.54	15.87	65.38	100	0	P	H
VHT80		17325	49.36	-18.84	68.2	52.54	40.71	19.9	64.16	100	0	P	H
CH 155		11550	45.95	-28.05	74	56.92	38.54	15.87	65.38	100	0	P	V
5775MHz		17325	49.05	-19.15	68.2	52.23	40.71	19.9	64.16	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 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		76.44	22.8	-17.2	40	41.29	12.75	1.22	32.48	-	-	P	H
		140.97	25.63	-17.87	43.5	39.08	17.42	1.51	32.44	-	-	P	H
		248.97	25.2	-20.8	46	37.13	18.43	1.95	32.38	-	-	P	H
		845.3	31.74	-14.26	46	30.83	29.08	3.63	31.95	-	-	P	H
		882.4	32.1	-13.9	46	30.75	29.21	3.73	31.75	-	-	P	H
		955.9	34.24	-11.76	46	30.28	31.06	3.87	31.14	100	0	P	H
		40.26	35.85	-4.15	40	48.56	18.83	0.94	32.49	100	0	P	V
		70.77	24.49	-15.51	40	43.56	12.34	1.06	32.49	-	-	P	V
		98.31	23.98	-19.52	43.5	39.38	15.79	1.27	32.48	-	-	P	V
		794.2	30.79	-15.21	46	31.01	28.29	3.53	32.2	-	-	P	V
		844.6	31.18	-14.82	46	30.29	29.06	3.63	31.95	-	-	P	V
		909	32.75	-13.25	46	31.04	29.33	3.8	31.58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5647.2	52.79	-15.41	68.2	43.54	32.73	9.62	33.1	400	358	P	H
		5699	54.82	-49.64	104.46	45.36	32.86	9.72	33.12	400	358	P	H
		5715.8	57.74	-51.89	109.63	48.2	32.9	9.77	33.13	400	358	P	H
		5721.8	58.98	-55.93	114.91	49.35	32.94	9.82	33.13	400	358	P	H
	*	5745	113.8	-	-	104.1	32.98	9.87	33.15	400	358	P	H
	*	5745	105	-	-	95.3	32.98	9.87	33.15	400	358	A	H
		5629.2	50.19	-18.01	68.2	41.02	32.69	9.58	33.1	300	301	P	V
		5695.6	51.9	-50.06	101.96	42.44	32.86	9.72	33.12	300	301	P	V
		5705	50.69	-55.91	106.6	41.15	32.9	9.77	33.13	300	301	P	V
		5724.2	51.05	-69.33	120.38	41.42	32.94	9.82	33.13	300	301	P	V
	*	5745	104.77	-	-	95.07	32.98	9.87	33.15	300	301	P	V
	*	5745	96.11	-	-	86.41	32.98	9.87	33.15	300	301	A	V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5648.8	52.56	-15.64	68.2	43.31	32.73	9.62	33.1	389	358	P	H
		5681.6	54.05	-37.57	91.62	44.64	32.81	9.72	33.12	389	358	P	H
		5716.4	53.24	-56.55	109.79	43.7	32.9	9.77	33.13	389	358	P	H
		5721	53.79	-59.29	113.08	44.16	32.94	9.82	33.13	389	358	P	H
	*	5785	113.11	-	-	103.25	33.06	9.97	33.17	389	358	P	H
	*	5785	104.54	-	-	94.68	33.06	9.97	33.17	389	358	A	H
		5853	51.73	-63.63	115.36	41.67	33.23	10.02	33.19	389	358	P	H
		5862.6	54.57	-54.1	108.67	44.49	33.27	10.02	33.21	389	358	P	H
		5918.4	55.37	-17.7	73.07	45.19	33.39	10.02	33.23	389	358	P	H
		5942.6	54.71	-13.49	68.2	44.45	33.48	10.02	33.24	389	358	P	H
		5649.4	49.45	-18.75	68.2	40.2	32.73	9.62	33.1	400	62	P	V
		5667	50.09	-30.73	80.82	40.72	32.81	9.67	33.11	400	62	P	V
		5718.8	50.62	-59.84	110.46	40.99	32.94	9.82	33.13	400	62	P	V
		5724.8	51.99	-69.75	121.74	42.36	32.94	9.82	33.13	400	62	P	V
	*	5785	103.96	-	-	94.1	33.06	9.97	33.17	400	62	P	V
	*	5785	94.91	-	-	85.05	33.06	9.97	33.17	400	62	A	V
		5850	49.99	-72.21	122.2	39.93	33.23	10.02	33.19	400	62	P	V
		5855.2	49.79	-60.95	110.74	39.69	33.27	10.02	33.19	400	62	P	V
		5920.4	50.32	-21.27	71.59	40.14	33.39	10.02	33.23	400	62	P	V
		5931.2	50.26	-17.94	68.2	40.04	33.43	10.02	33.23	400	62	P	V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	112.67	-	-	102.64	33.19	10.02	33.18	400	8	P	H
	*	5825	103.53	-	-	93.5	33.19	10.02	33.18	400	8	A	H
		5853.6	57.46	-56.53	113.99	47.36	33.27	10.02	33.19	400	8	P	H
		5873.4	56.55	-49.1	105.65	46.43	33.31	10.02	33.21	400	8	P	H
		5894.2	54.99	-35.96	90.95	44.84	33.35	10.02	33.22	400	8	P	H
		5945.4	54.02	-14.18	68.2	43.76	33.48	10.02	33.24	400	8	P	H
	*	5825	103.09	-	-	93.06	33.19	10.02	33.18	308	320	P	V
	*	5825	95.09	-	-	85.06	33.19	10.02	33.18	308	320	A	V
		5855	51.35	-59.45	110.8	41.25	33.27	10.02	33.19	308	320	P	V
		5860.8	51.67	-57.5	109.17	41.59	33.27	10.02	33.21	308	320	P	V
		5923	51.81	-17.86	69.67	41.59	33.43	10.02	33.23	308	320	P	V
		5948.4	51.27	-16.93	68.2	41.01	33.48	10.02	33.24	308	320	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.47	-28.53	74	56.26	38.52	15.8	65.39	100	0	P	H
		17235	55.96	-12.24	68.2	59.25	40.76	19.86	64.27	100	0	P	H
		11490	46.51	-27.49	74	57.58	38.52	15.8	65.39	100	0	P	V
		17235	57.75	-10.45	68.2	61.04	40.76	19.86	64.27	100	0	P	V
802.11a CH 157 5785MHz		11570	46.69	-27.31	74	57.35	38.56	15.87	65.37	100	0	P	H
		17355	51.75	-16.45	68.2	54.89	40.69	19.91	64.11	100	0	P	H
		11570	45.23	-28.77	74	56.17	38.56	15.87	65.37	100	0	P	V
		17355	54.2	-14	68.2	57.34	40.69	19.91	64.11	100	0	P	V
802.11a CH 165 5825MHz		11650	47.5	-26.5	74	58.01	38.61	15.94	65.34	100	0	P	H
		17475	54.82	-13.38	68.2	57.82	40.62	19.95	63.95	100	0	P	H
		11650	46.55	-27.45	74	57.34	38.61	15.94	65.34	100	0	P	V
		17475	53.29	-14.91	68.2	56.29	40.62	19.95	63.95	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+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.4	54.54	-13.66	68.2	45.33	32.73	9.58	33.1	400	1	P	H
		5690.4	56.51	-41.61	98.12	47.05	32.86	9.72	33.12	400	1	P	H
		5719.6	58.29	-52.4	110.69	48.66	32.94	9.82	33.13	400	1	P	H
		5724.4	62.91	-57.92	120.83	53.28	32.94	9.82	33.13	400	1	P	H
802.11n	*	5745	112.82	-	-	103.12	32.98	9.87	33.15	400	1	P	H
HT20	*	5745	104	-	-	94.3	32.98	9.87	33.15	400	1	A	H
CH 149		5615.4	49.91	-18.29	68.2	40.81	32.65	9.53	33.08	306	323	P	V
5745MHz		5689	50.95	-46.14	97.09	41.49	32.86	9.72	33.12	306	323	P	V
		5709.4	52.18	-55.65	107.83	42.64	32.9	9.77	33.13	306	323	P	V
		5723	51.04	-66.6	117.64	41.41	32.94	9.82	33.13	306	323	P	V
	*	5745	103.61	-	-	93.91	32.98	9.87	33.15	306	323	P	V
	*	5745	94.84	-	-	85.14	32.98	9.87	33.15	306	323	A	V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649	52.34	-15.86	68.2	43.09	32.73	9.62	33.1	392	356	P	H
		5663	54.59	-23.26	77.85	45.31	32.77	9.62	33.11	392	356	P	H
		5717.2	54.55	-55.47	110.02	45.01	32.9	9.77	33.13	392	356	P	H
		5722.4	55.25	-61.02	116.27	45.62	32.94	9.82	33.13	392	356	P	H
	*	5785	110.44	-	-	100.58	33.06	9.97	33.17	392	356	P	H
	*	5785	102.73	-	-	92.87	33.06	9.97	33.17	392	356	A	H
		5850.8	54.69	-65.69	120.38	44.63	33.23	10.02	33.19	392	356	P	H
		5871.2	54.32	-51.94	106.26	44.2	33.31	10.02	33.21	392	356	P	H
802.11n		5882.8	55.76	-43.65	99.41	45.64	33.31	10.02	33.21	392	356	P	H
HT20		5928	55.01	-13.19	68.2	44.79	33.43	10.02	33.23	392	356	P	H
CH 157		5610.8	49.48	-18.72	68.2	40.38	32.65	9.53	33.08	338	332	P	V
5785MHz		5665.6	51.32	-28.46	79.78	41.99	32.77	9.67	33.11	338	332	P	V
		5701.2	51.44	-54.1	105.54	41.89	32.9	9.77	33.12	338	332	P	V
		5723.8	49.68	-69.78	119.46	40.05	32.94	9.82	33.13	338	332	P	V
	*	5785	99.67	-	-	89.81	33.06	9.97	33.17	338	332	P	V
	*	5785	92.17	-	-	82.31	33.06	9.97	33.17	338	332	A	V
		5853	50.14	-65.22	115.36	40.08	33.23	10.02	33.19	338	332	P	V
		5863.2	50.98	-57.52	108.5	40.9	33.27	10.02	33.21	338	332	P	V
		5909.8	51.98	-27.44	79.42	41.8	33.39	10.02	33.23	338	332	P	V
		5925.8	50.14	-18.06	68.2	39.92	33.43	10.02	33.23	338	332	P	V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	112.24	-	-	102.21	33.19	10.02	33.18	385	349	P	H
	*	5825	101.49	-	-	91.46	33.19	10.02	33.18	385	349	A	H
		5851.8	55.91	-62.19	118.1	45.85	33.23	10.02	33.19	385	349	P	H
		5859	55.58	-54.1	109.68	45.5	33.27	10.02	33.21	385	349	P	H
		5876.2	55.17	-49.14	104.31	45.05	33.31	10.02	33.21	385	349	P	H
		5947.2	54.48	-13.72	68.2	44.22	33.48	10.02	33.24	385	349	P	H
	*	5825	101.27	-	-	91.24	33.19	10.02	33.18	320	321	P	V
	*	5825	93.29	-	-	83.26	33.19	10.02	33.18	320	321	A	V
		5854.4	50.47	-61.7	112.17	40.37	33.27	10.02	33.19	320	321	P	V
		5868.6	51.9	-55.09	106.99	41.82	33.27	10.02	33.21	320	321	P	V
		5914.2	51.62	-24.55	76.17	41.44	33.39	10.02	33.23	320	321	P	V
		5931.8	51.75	-16.45	68.2	41.53	33.43	10.02	33.23	320	321	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11490	46.58	-27.42	74	57.37	38.52	15.8	65.39	100	0	P	H
HT20		17235	52.45	-15.75	68.2	55.74	40.76	19.86	64.27	100	0	P	H
CH 149		11490	46.04	-27.96	74	57.11	38.52	15.8	65.39	100	0	P	V
5745MHz		17235	52.85	-15.35	68.2	56.14	40.76	19.86	64.27	100	0	P	V
802.11n		11570	46.17	-27.83	74	56.83	38.56	15.87	65.37	100	0	P	H
HT20		17355	49.83	-18.37	68.2	52.97	40.69	19.91	64.11	100	0	P	H
CH 157		11570	46.37	-27.63	74	57.31	38.56	15.87	65.37	100	0	P	V
5785MHz		17355	49.39	-18.81	68.2	52.53	40.69	19.91	64.11	100	0	P	V
802.11n		11650	47.02	-26.98	74	57.53	38.61	15.94	65.34	100	0	P	H
HT20		17475	50.88	-17.32	68.2	53.88	40.62	19.95	63.95	100	0	P	H
CH 165		11650	46.04	-27.96	74	56.83	38.61	15.94	65.34	100	0	P	V
5825MHz		17475	51.22	-16.98	68.2	54.22	40.62	19.95	63.95	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+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.8	56.18	-12.02	68.2	46.89	32.77	9.62	33.1	395	1	P	H
		5697.6	57.24	-46.19	103.43	47.78	32.86	9.72	33.12	395	1	P	H
		5718.8	62.98	-47.48	110.46	53.35	32.94	9.82	33.13	395	1	P	H
		5723.6	64.09	-54.92	119.01	54.46	32.94	9.82	33.13	395	1	P	H
	*	5755	110.61	-	-	100.82	33.02	9.92	33.15	395	1	P	H
	*	5755	101.92	-	-	92.13	33.02	9.92	33.15	395	1	A	H
		5850.6	54.35	-66.48	120.83	44.29	33.23	10.02	33.19	395	1	P	H
		5871	55.34	-50.98	106.32	45.22	33.31	10.02	33.21	395	1	P	H
802.11n		5904.4	55.6	-27.81	83.41	45.45	33.35	10.02	33.22	395	1	P	H
HT40		5932	52.18	-16.02	68.2	41.96	33.43	10.02	33.23	395	1	P	H
CH 151		5647.6	49.8	-18.4	68.2	40.55	32.73	9.62	33.1	317	340	P	V
5755MHz		5681.2	51.53	-39.8	91.33	42.17	32.81	9.67	33.12	317	340	P	V
		5719.2	54.67	-55.91	110.58	45.04	32.94	9.82	33.13	317	340	P	V
		5722.8	57.18	-60	117.18	47.55	32.94	9.82	33.13	317	340	P	V
	*	5755	100.25	-	-	90.46	33.02	9.92	33.15	317	340	P	V
	*	5755	89.83	-	-	80.04	33.02	9.92	33.15	317	340	A	V
		5853.8	49.59	-63.95	113.54	39.49	33.27	10.02	33.19	317	340	P	V
		5871.8	49.86	-56.23	106.09	39.74	33.31	10.02	33.21	317	340	P	V
		5890	49.91	-44.16	94.07	39.76	33.35	10.02	33.22	317	340	P	V
		5933.2	50.25	-17.95	68.2	40.03	33.43	10.02	33.23	317	340	P	V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5630.4	53.97	-14.23	68.2	44.8	32.69	9.58	33.1	389	4	P	H
		5700	55.65	-49.55	105.2	46.14	32.86	9.77	33.12	389	4	P	H
		5719.8	57.85	-52.89	110.74	48.22	32.94	9.82	33.13	389	4	P	H
		5724.8	56.28	-65.46	121.74	46.65	32.94	9.82	33.13	389	4	P	H
	*	5795	109.65	-	-	99.71	33.1	10.01	33.17	389	4	P	H
	*	5795	101.48	-	-	91.54	33.1	10.01	33.17	389	4	A	H
		5855	57.71	-53.09	110.8	47.61	33.27	10.02	33.19	389	4	P	H
		5855	57.71	-53.09	110.8	47.61	33.27	10.02	33.19	389	4	P	H
		5908.8	56.79	-23.36	80.15	46.61	33.39	10.02	33.23	389	4	P	H
		5929.4	56.95	-11.25	68.2	46.73	33.43	10.02	33.23	389	4	P	H
		5641.8	50.04	-18.16	68.2	40.83	32.73	9.58	33.1	312	325	P	V
		5691.2	51.02	-47.69	98.71	41.56	32.86	9.72	33.12	312	325	P	V
		5709	50.76	-56.96	107.72	41.22	32.9	9.77	33.13	312	325	P	V
		5721.2	52.52	-61.02	113.54	42.89	32.94	9.82	33.13	312	325	P	V
	*	5795	101.59	-	-	91.65	33.1	10.01	33.17	312	325	P	V
	*	5795	93.58	-	-	83.64	33.1	10.01	33.17	312	325	A	V
		5854.4	51.53	-60.64	112.17	41.43	33.27	10.02	33.19	312	325	P	V
		5865.4	52.3	-55.59	107.89	42.22	33.27	10.02	33.21	312	325	P	V
		5900.4	52.08	-34.28	86.36	41.93	33.35	10.02	33.22	312	325	P	V
		5931.4	51.46	-16.74	68.2	41.24	33.43	10.02	33.23	312	325	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11510	46.15	-27.85	74	56.94	38.5	15.83	65.4	100	0	P	H
HT40		17265	51.2	-17	68.2	54.45	40.74	19.88	64.23	100	0	P	H
CH 151		11510	44.84	-29.16	74	55.91	38.5	15.83	65.4	100	0	P	V
5755MHz		17265	52.05	-16.15	68.2	55.3	40.74	19.88	64.23	100	0	P	V
802.11n		11590	46.26	-27.74	74	56.89	38.57	15.89	65.37	100	0	P	H
HT40		17385	50.81	-17.39	68.2	53.91	40.67	19.92	64.06	100	0	P	H
CH 159		11590	45.47	-28.53	74	56.38	38.57	15.89	65.37	100	0	P	V
5795MHz		17385	51	-17.2	68.2	54.1	40.67	19.92	64.06	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+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.6	58.91	-9.29	68.2	49.7	32.73	9.58	33.1	394	354	P	H
		5694.8	73.94	-27.43	101.37	64.48	32.86	9.72	33.12	394	354	P	H
		5711.4	75.51	-32.88	108.39	65.97	32.9	9.77	33.13	394	354	P	H
		5722.2	74.28	-41.54	115.82	64.65	32.94	9.82	33.13	394	354	P	H
	*	5775	107.03	-	-	97.16	33.06	9.97	33.16	394	354	P	H
	*	5775	98.02	-	-	88.15	33.06	9.97	33.16	394	354	A	H
		5853.2	72.56	-42.34	114.9	62.5	33.23	10.02	33.19	394	354	P	H
		5857	72.44	-37.8	110.24	62.34	33.27	10.02	33.19	394	354	P	H
802.11ac		5876.6	64.11	-39.9	104.01	53.99	33.31	10.02	33.21	394	354	P	H
VHT80		5930.6	56.87	-11.33	68.2	46.65	33.43	10.02	33.23	394	354	P	H
CH 155		5647.6	50.32	-17.88	68.2	41.07	32.73	9.62	33.1	319	323	P	V
5775MHz		5698	64.5	-39.23	103.73	55.04	32.86	9.72	33.12	319	323	P	V
		5717.6	69.7	-40.43	110.13	60.07	32.94	9.82	33.13	319	323	P	V
		5720.4	64.62	-47.09	111.71	54.99	32.94	9.82	33.13	319	323	P	V
	*	5775	98.44	-	-	88.57	33.06	9.97	33.16	319	323	P	V
	*	5775	89.55	-	-	79.68	33.06	9.97	33.16	319	323	A	V
		5851.4	65.38	-53.63	119.01	55.32	33.23	10.02	33.19	319	323	P	V
		5857	64.51	-45.73	110.24	54.41	33.27	10.02	33.19	319	323	P	V
		5876.4	57.51	-46.65	104.16	47.39	33.31	10.02	33.21	319	323	P	V
		5929.4	52.25	-15.95	68.2	42.03	33.43	10.02	33.23	319	323	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. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11550	46.13	-27.87	74	56.82	38.54	15.87	65.38	100	0	P	H
VHT80		17325	50.51	-17.69	68.2	53.69	40.71	19.9	64.16	100	0	P	H
CH 155		11550	45.22	-28.78	74	56.19	38.54	15.87	65.38	100	0	P	V
5775MHz		17325	53.29	-14.91	68.2	56.47	40.71	19.9	64.16	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 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		38.37	30.56	-9.44	40	42.51	19.85	0.68	32.49	100	0	P	H
		231.69	36.03	-9.97	46	50.07	16.39	1.88	32.38	-	-	P	H
		247.62	35.91	-10.09	46	48.09	18.18	1.95	32.38	-	-	P	H
		305.6	29.45	-16.55	46	40.23	19.28	2.22	32.37	-	-	P	H
		890.1	31.76	-14.24	46	30.34	29.18	3.79	31.71	-	-	P	H
		942.6	33.51	-12.49	46	30.29	30.49	3.82	31.26	-	-	P	H
		39.18	36.47	-3.53	40	48.16	19.85	0.94	32.49	100	0	P	V
		210.09	28.8	-14.7	43.5	44.25	15.08	1.8	32.39	-	-	P	V
		231.69	28.35	-17.65	46	42.39	16.39	1.88	32.38	-	-	P	V
		640.2	28.16	-17.84	46	30.79	26.57	3.16	32.46	-	-	P	V
		859.3	31.76	-14.24	46	30.41	29.4	3.67	31.87	-	-	P	V
		955.9	32.99	-13.01	46	29.03	31.06	3.87	31.14	-	-	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	Cable	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)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBµV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBµV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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

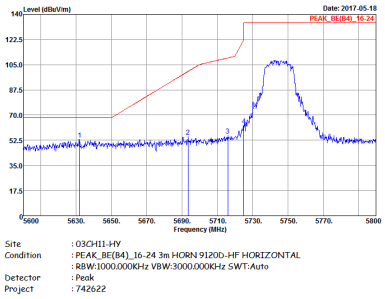
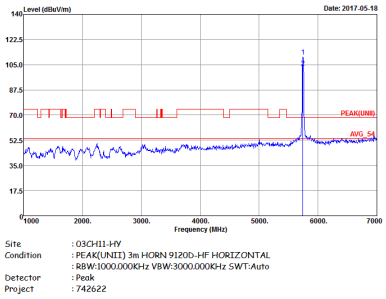
Test Engineer :	J.C. Liang, Jacky Hung and Ken Wu	**Temperature :**	20~23°C
		Relative Humidity :	58~63%

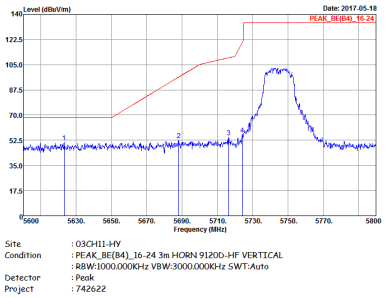
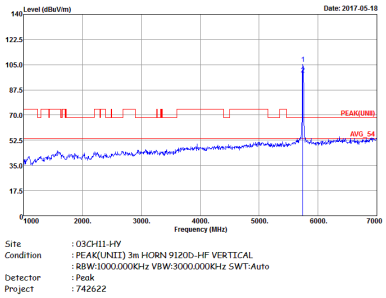
Note symbol

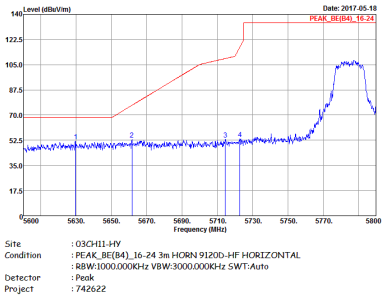
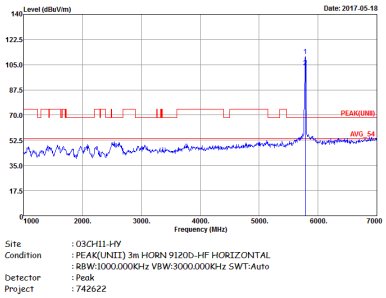
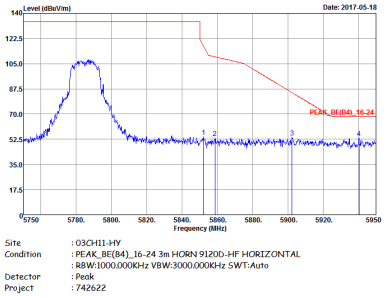
-L	**Low channel location**
-R	**High channel location**

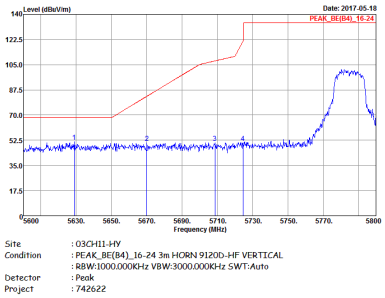
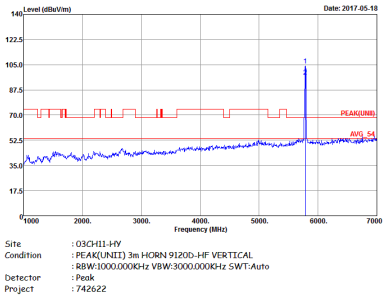
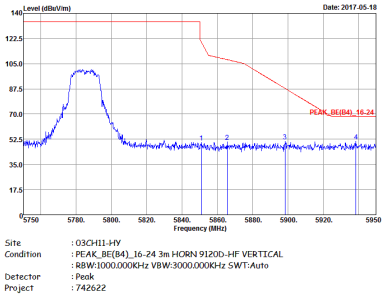
Band 4 - 5725~5850MHz

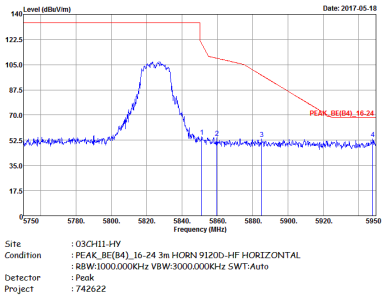
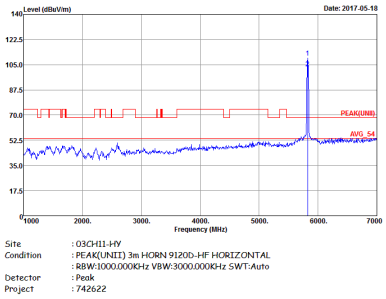
WIFI 802.11a (Band Edge @ 3m)

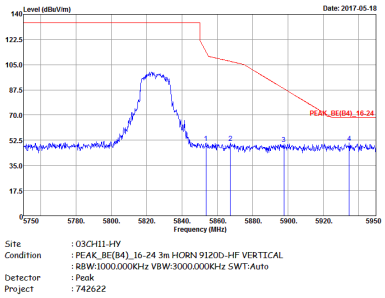
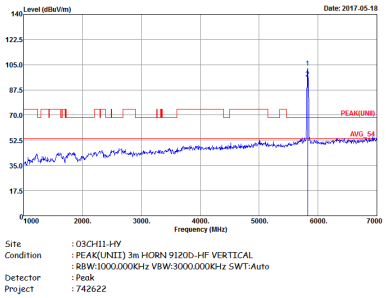
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

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

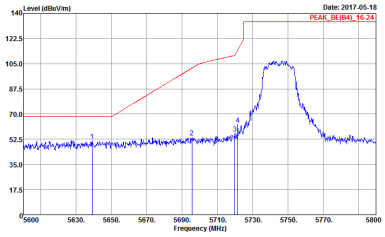
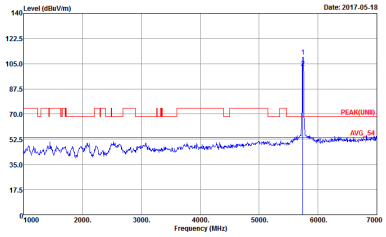
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

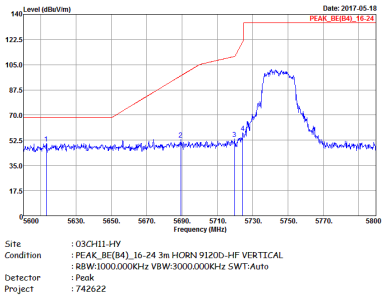
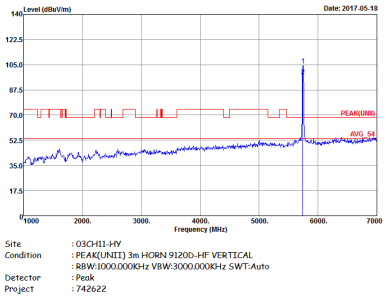
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

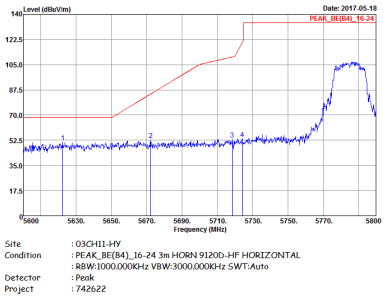
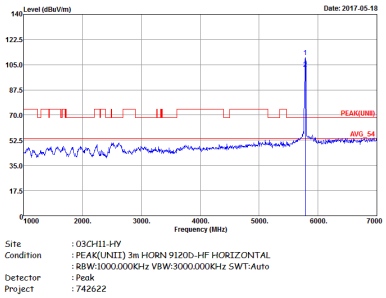
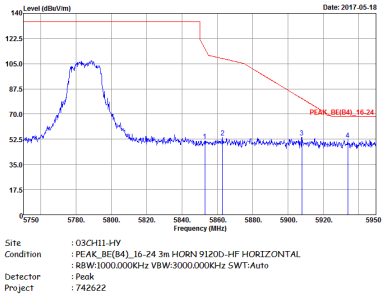
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

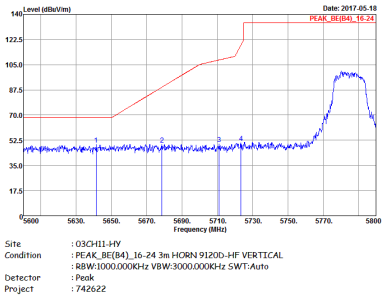
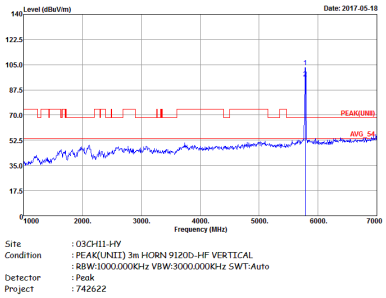
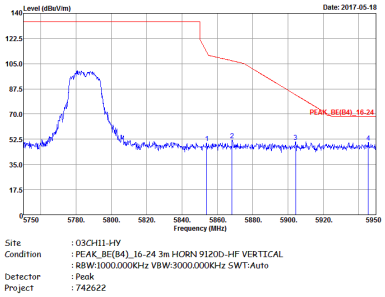
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

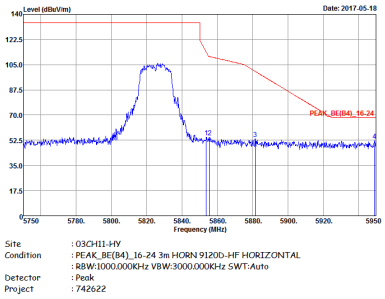
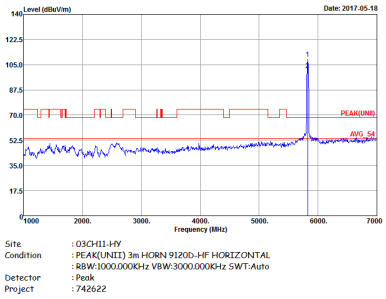
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

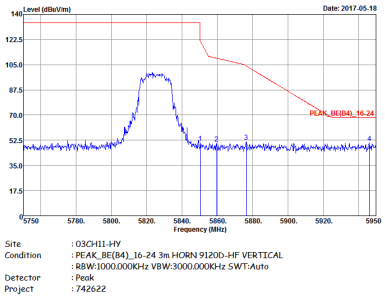
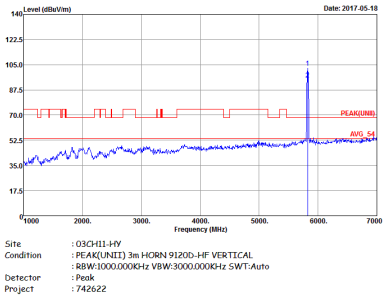
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 742622	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 742622

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

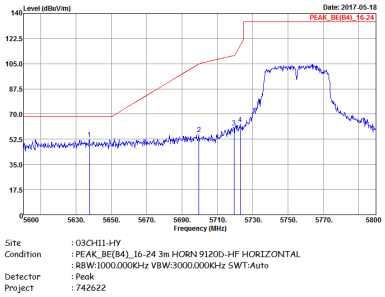
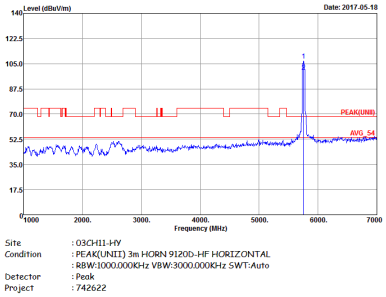
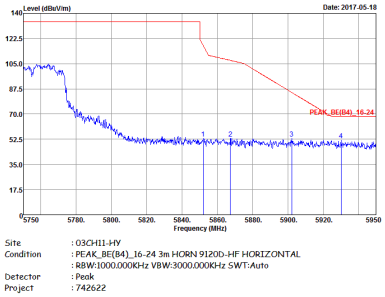
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

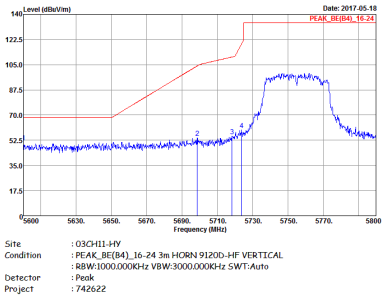
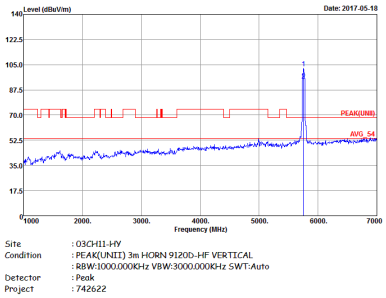
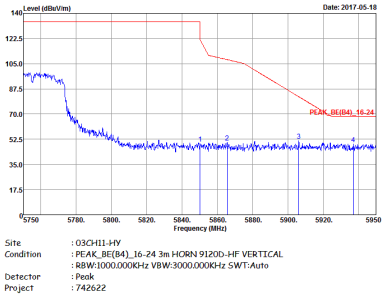
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

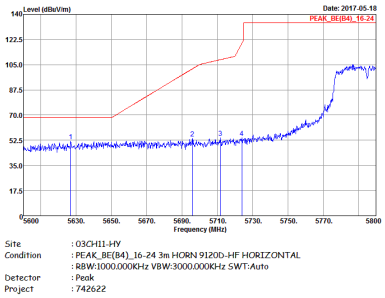
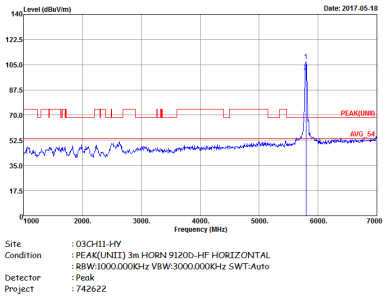
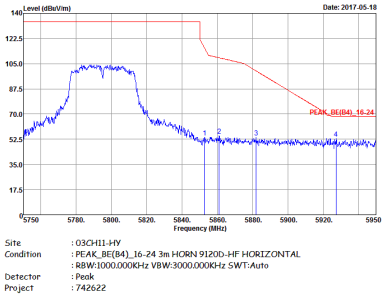
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

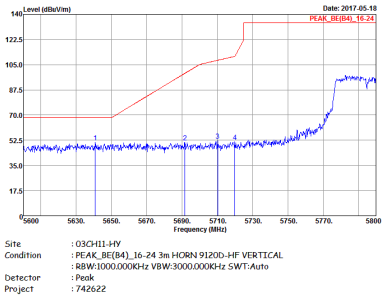
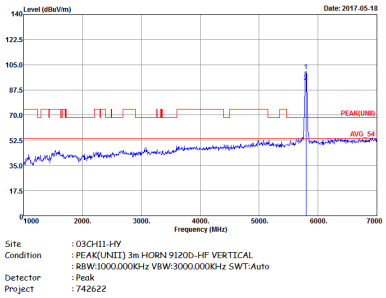
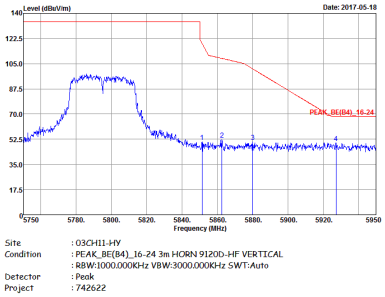
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak		

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

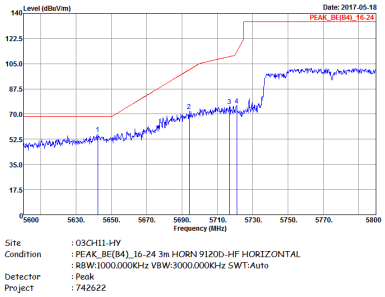
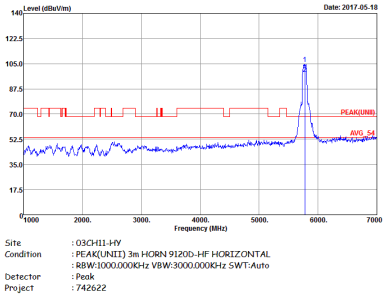
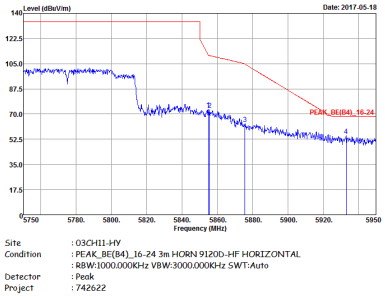
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

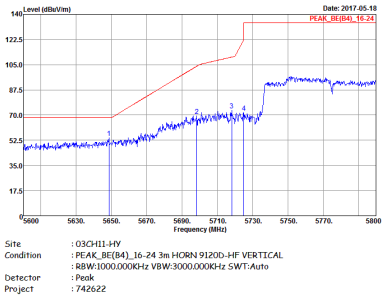
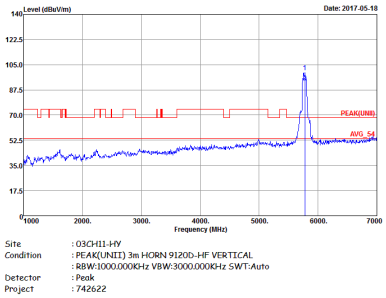
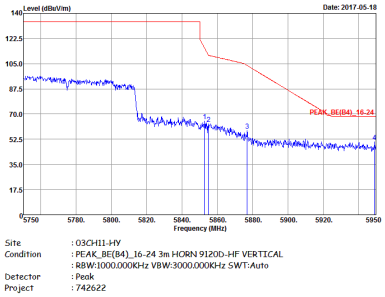
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

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

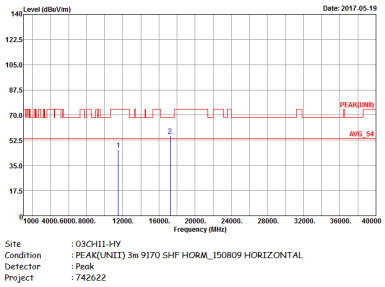
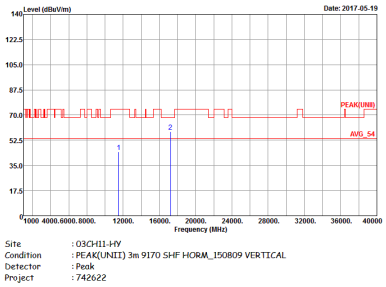
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

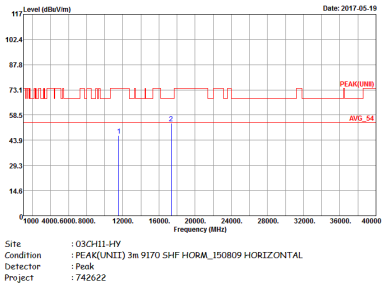
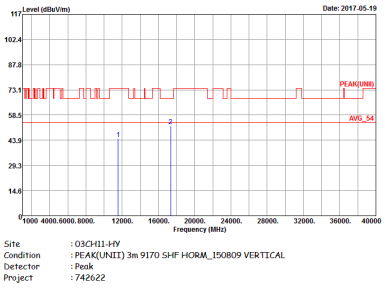
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

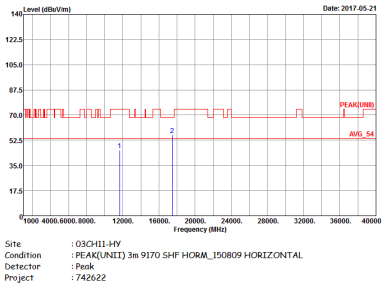
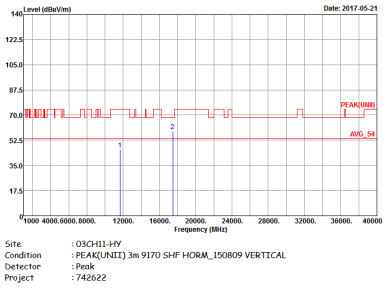
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

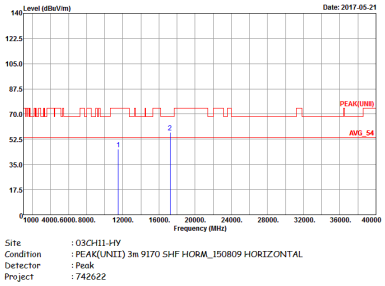
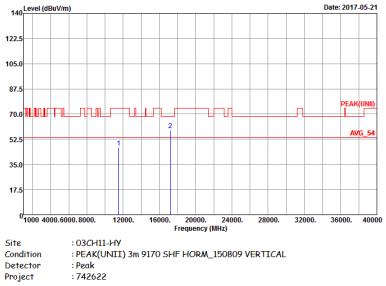
WIFI 802.11a (Harmonic @ 3m)

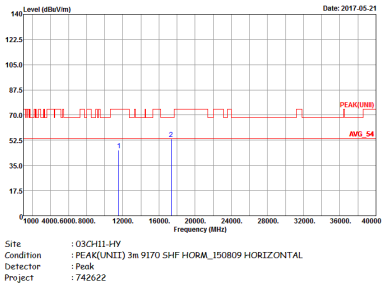
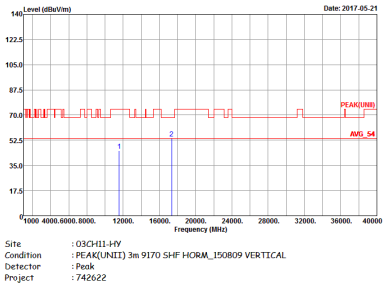
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

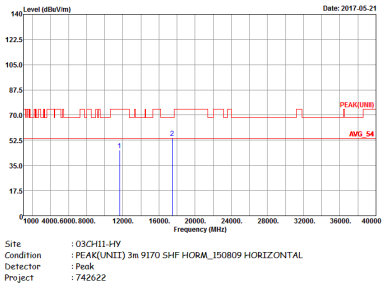
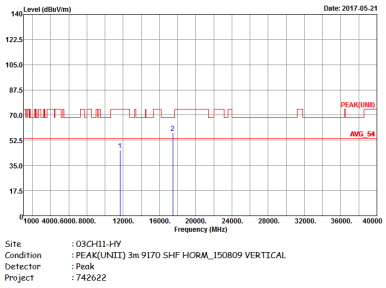
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

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

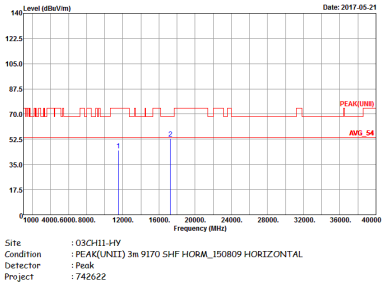
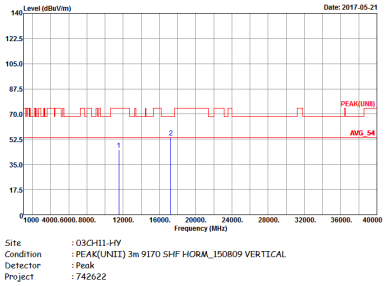
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

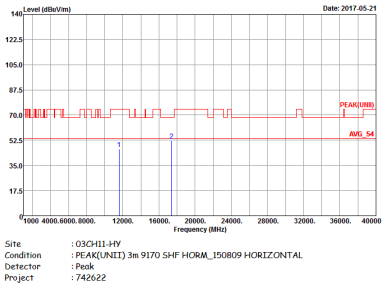
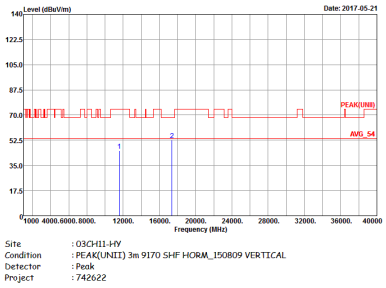
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

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

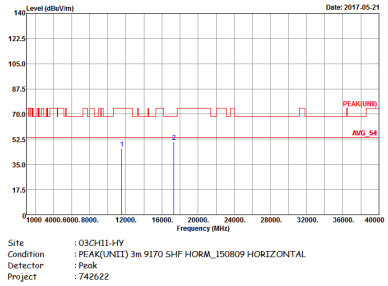
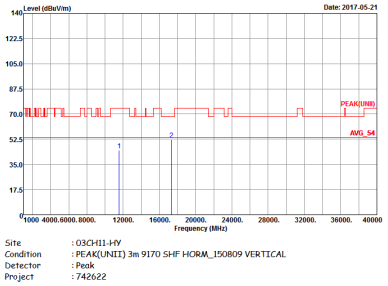
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

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 Avg.		

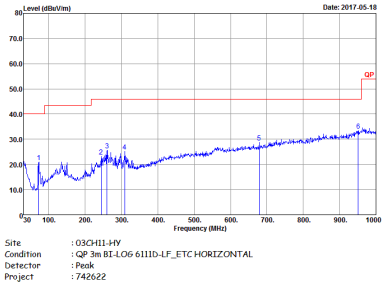
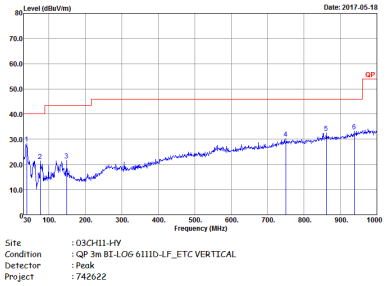
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

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

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

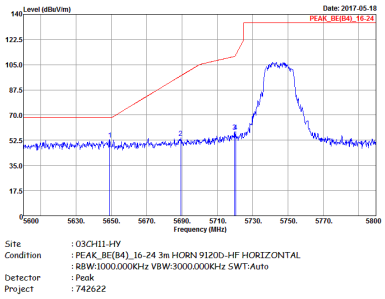
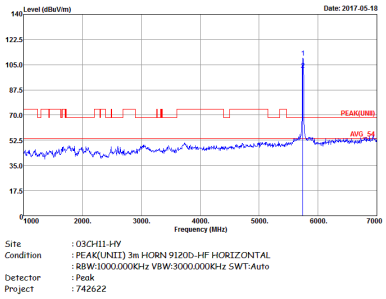
Emission below 1GHz

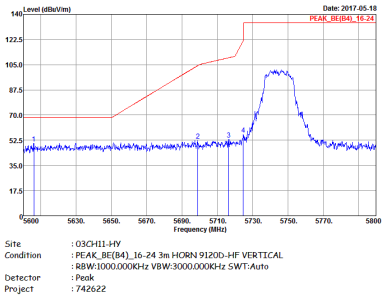
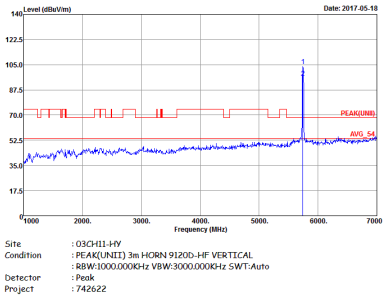
5GHz WIFI 802.11a (LF)

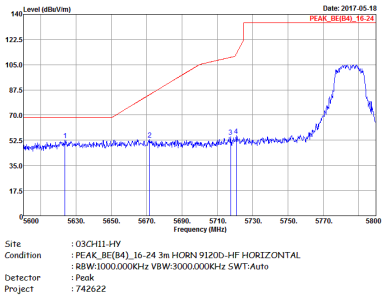
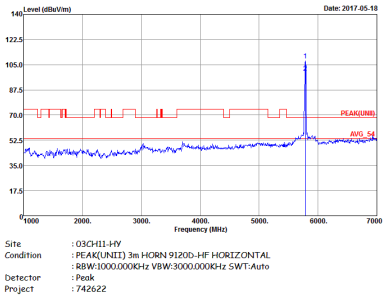
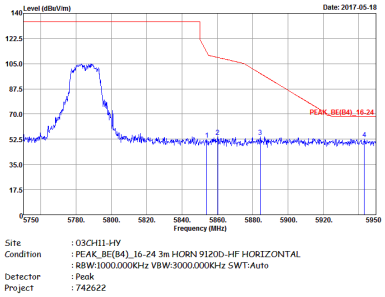
WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak		

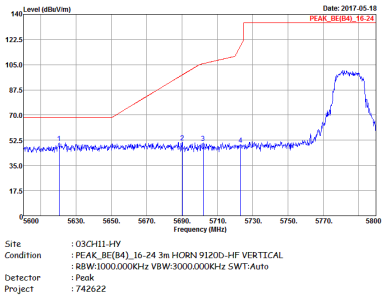
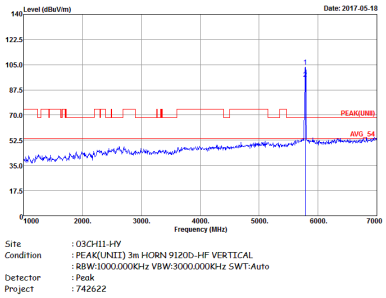
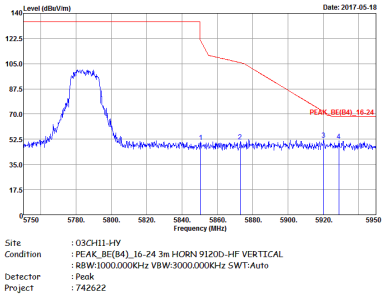
Band 4 - 5725~5850MHz

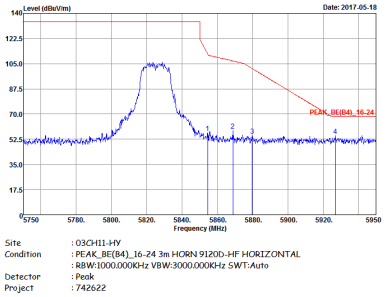
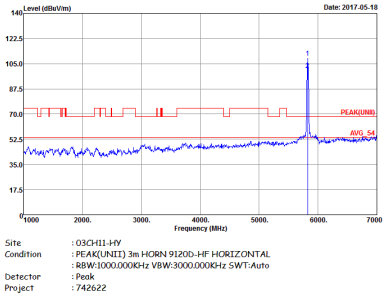
WIFI 802.11a (Band Edge @ 3m)

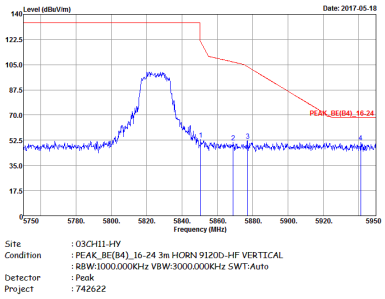
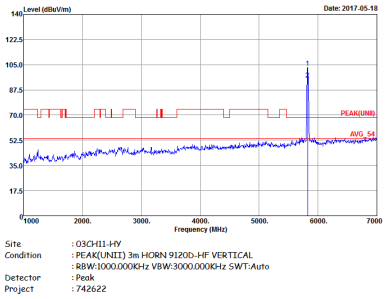
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

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

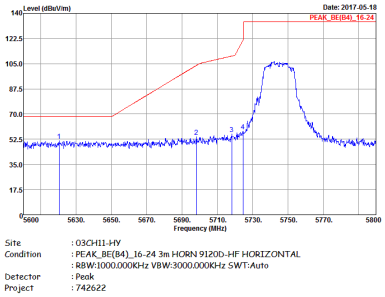
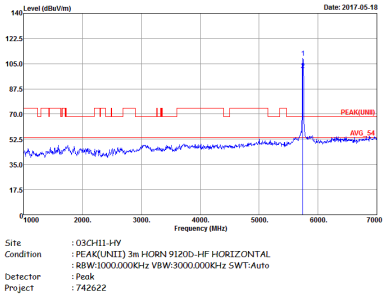
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

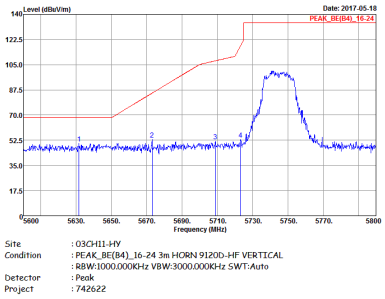
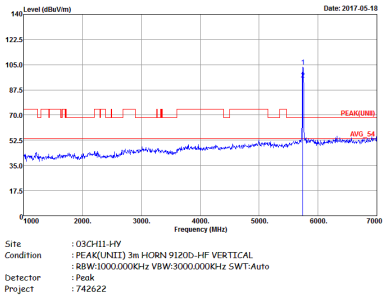
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

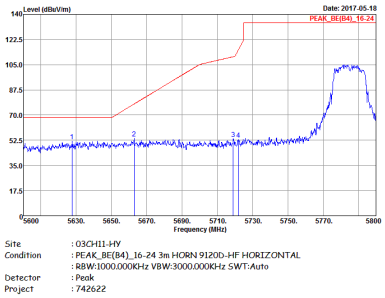
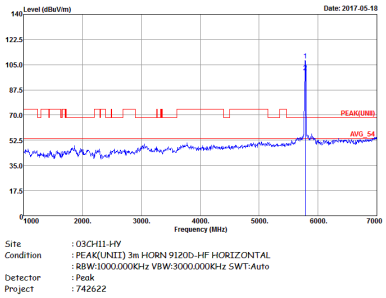
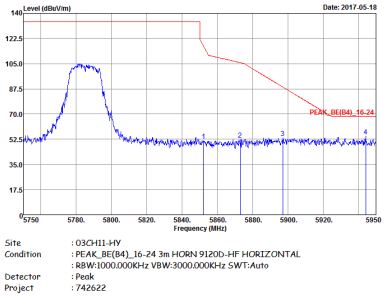
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

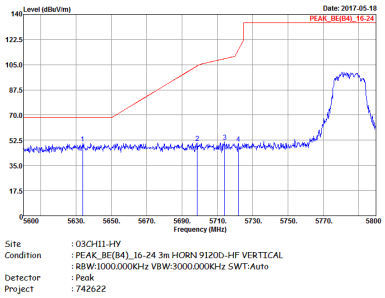
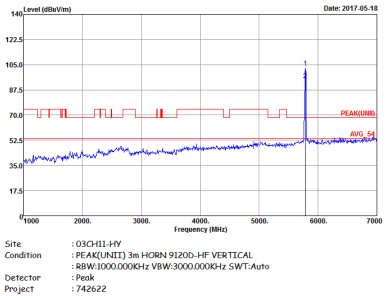
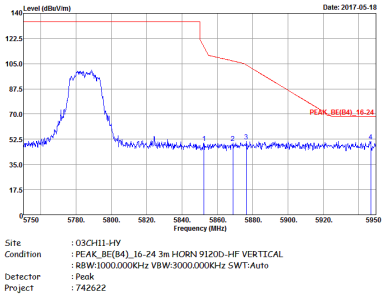
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

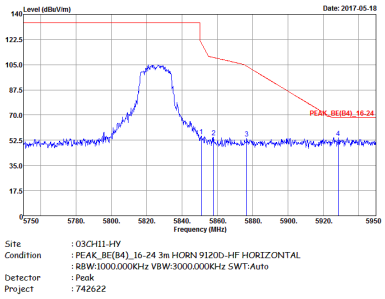
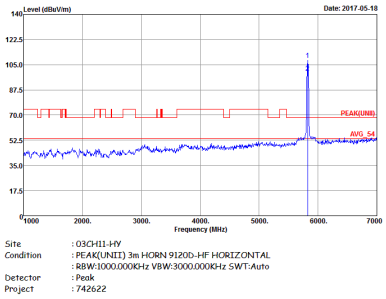
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

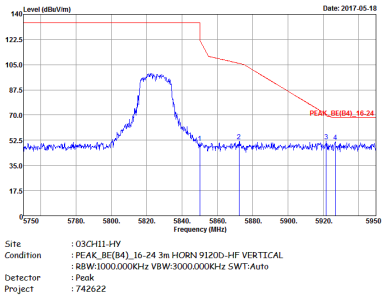
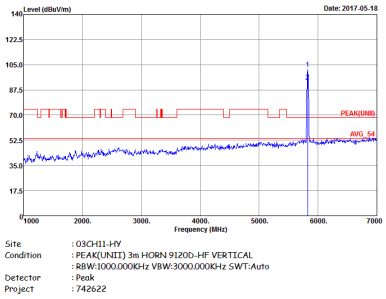
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

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

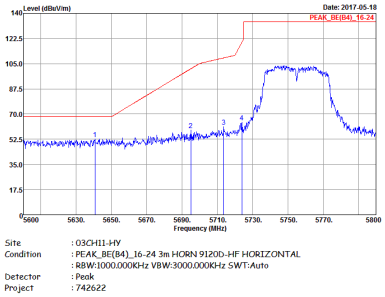
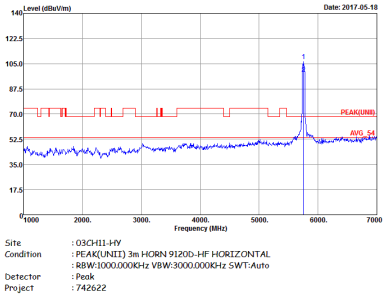
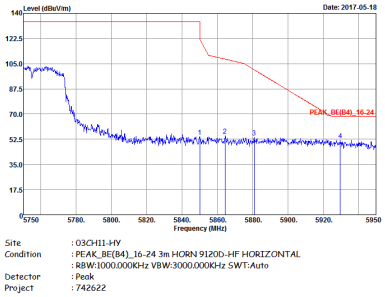
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

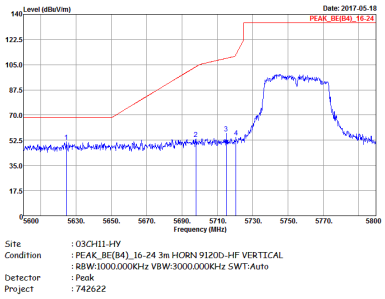
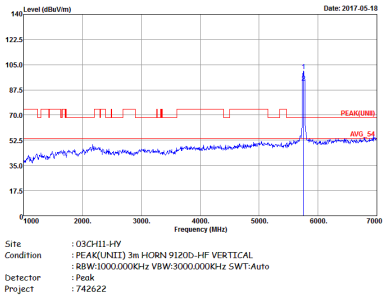
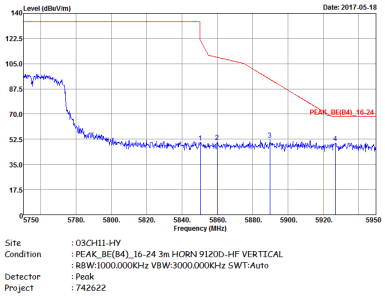
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

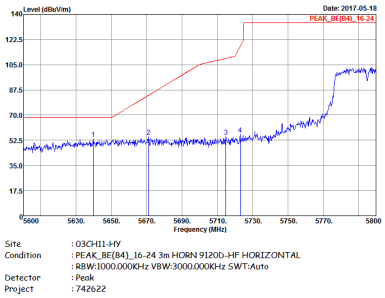
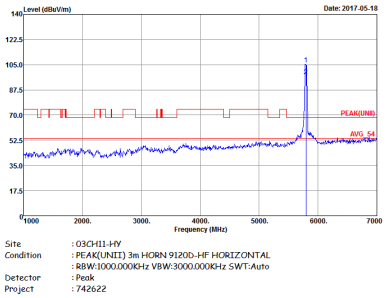
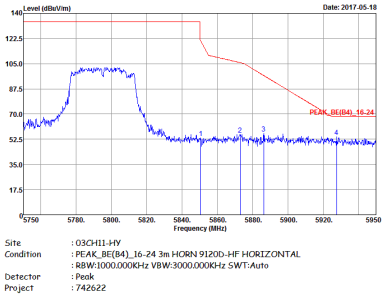
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

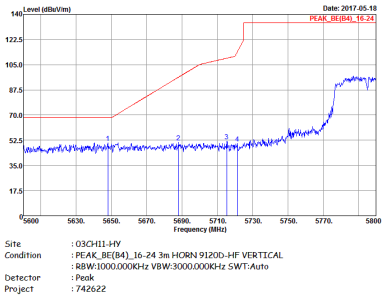
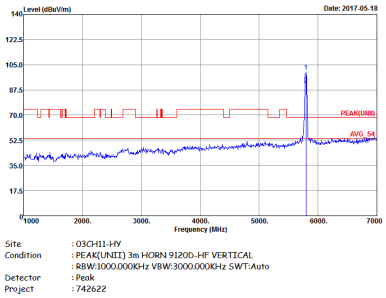
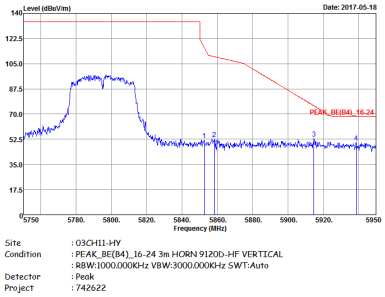
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak		

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

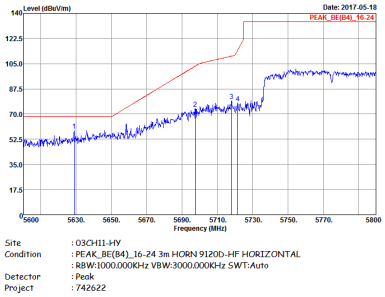
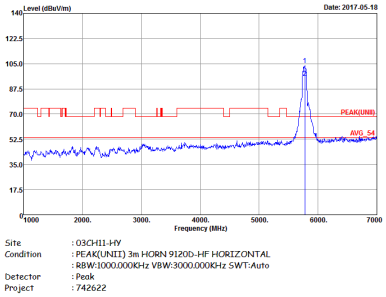
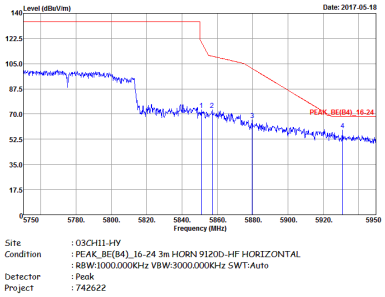
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

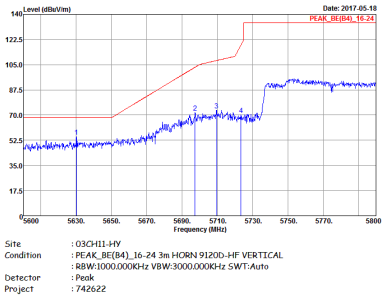
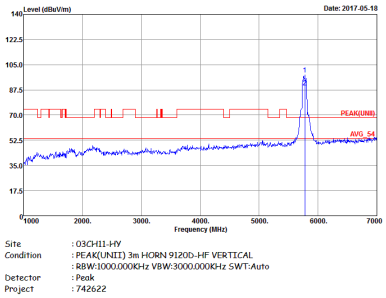
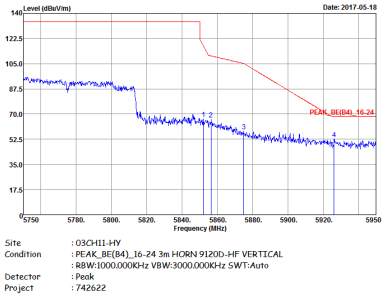
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

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

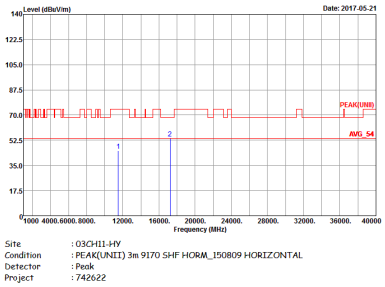
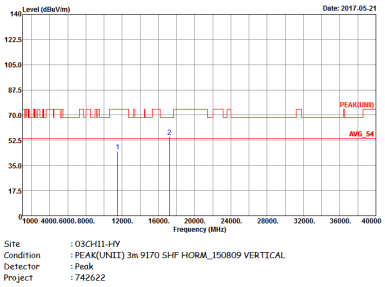
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

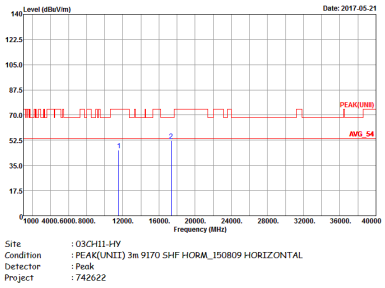
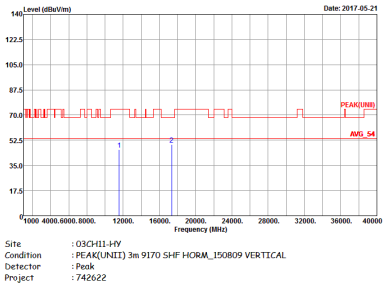
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

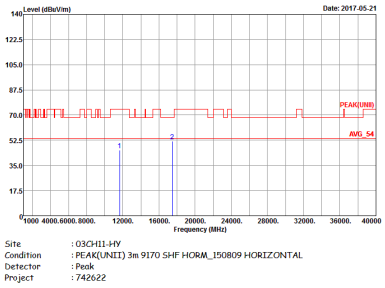
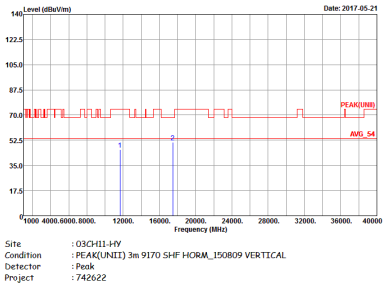
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

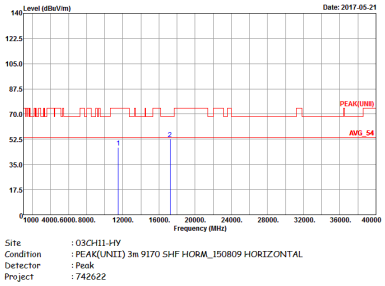
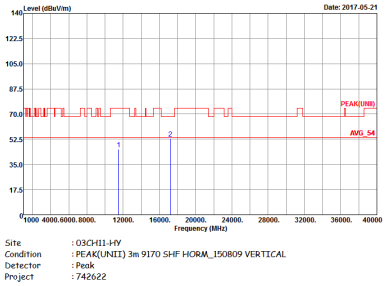
WIFI 802.11a (Harmonic @ 3m)

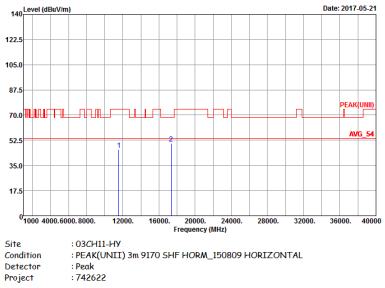
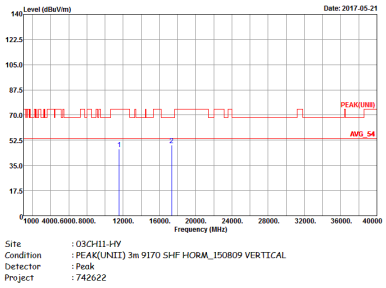
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

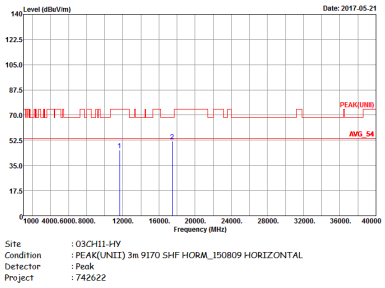
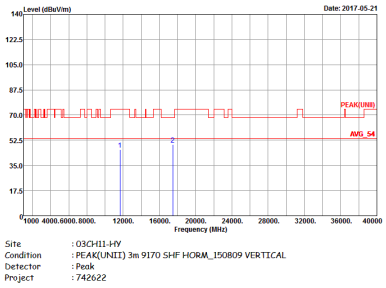
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

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

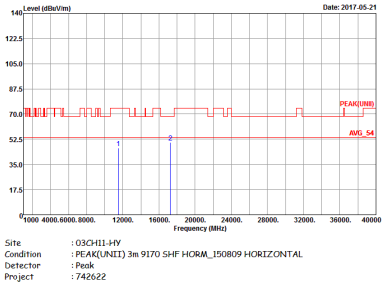
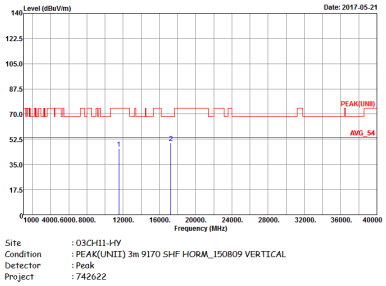
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

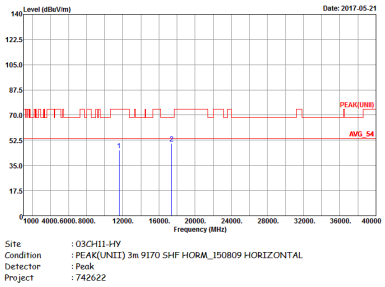
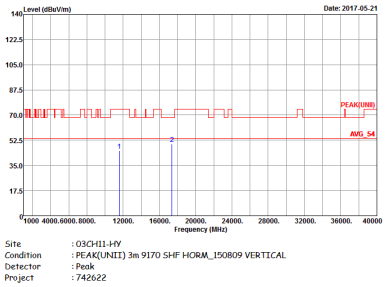
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

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.		

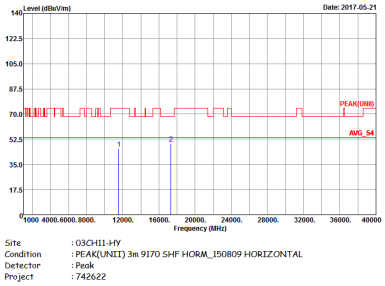
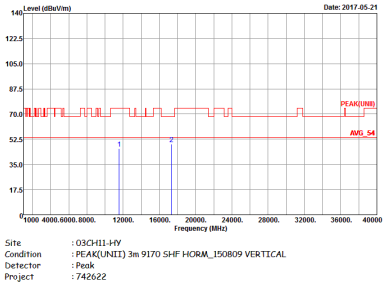
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

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.		

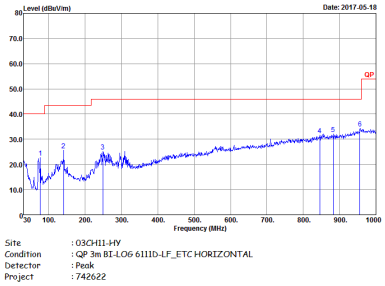
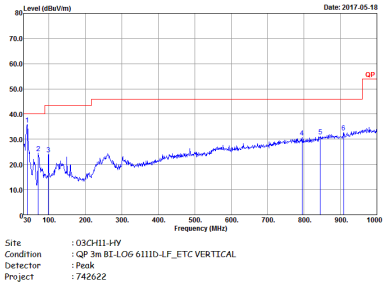
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

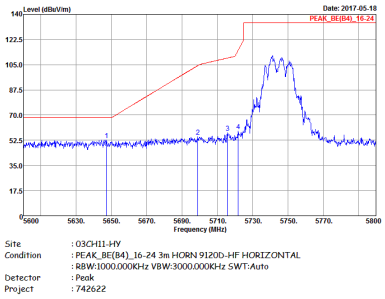
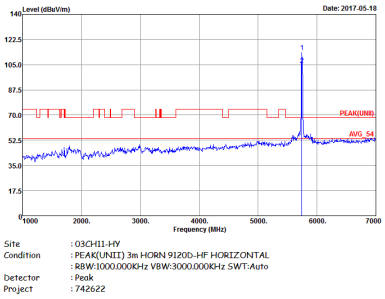
Emission below 1GHz

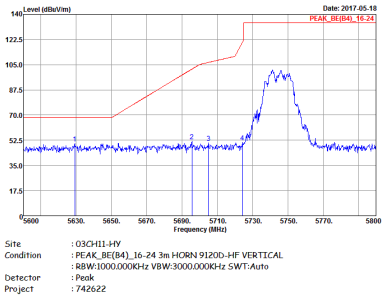
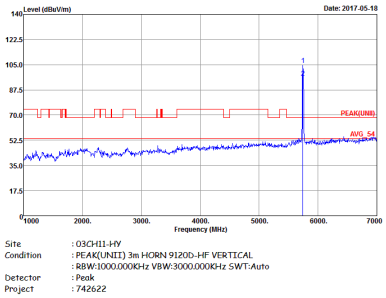
5GHz WIFI 802.11ac VHT80 (LF)

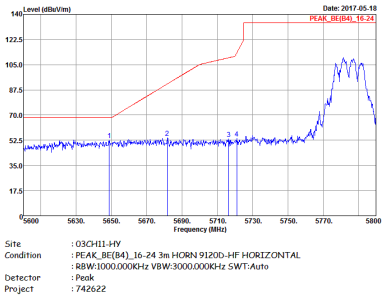
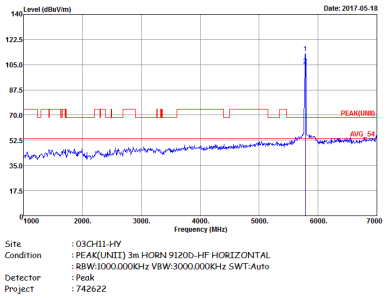
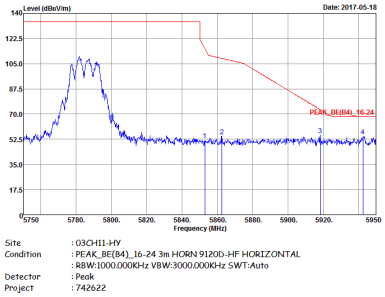
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak		

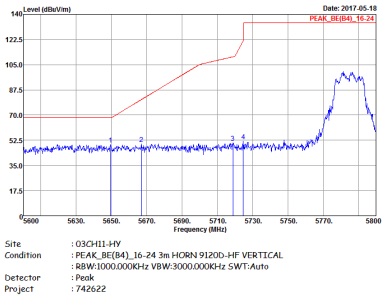
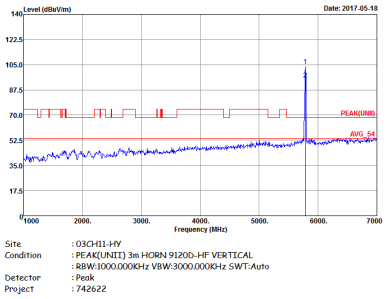
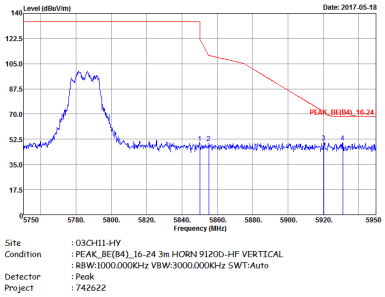
Band 4 - 5725~5850MHz

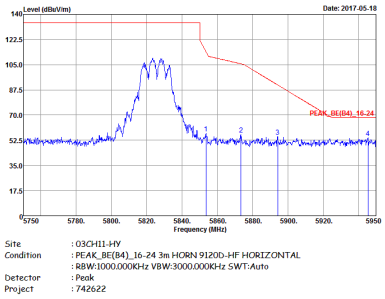
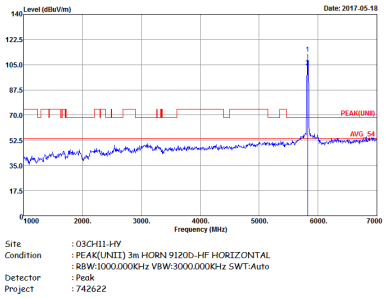
WIFI 802.11a (Band Edge @ 3m)

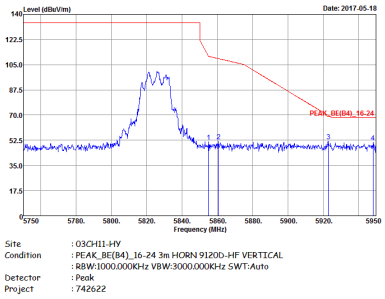
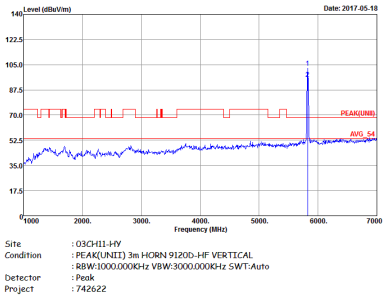
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

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

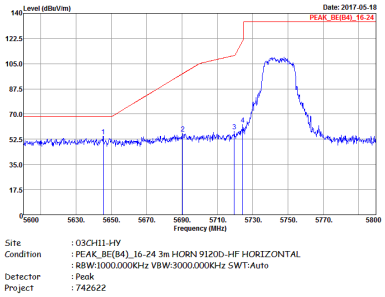
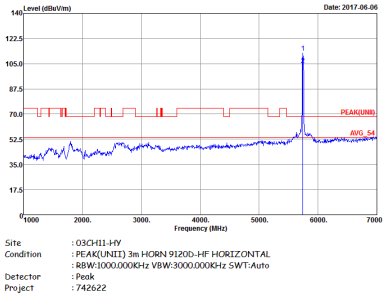
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

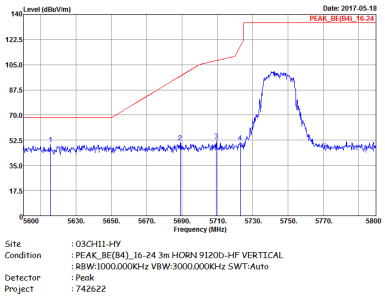
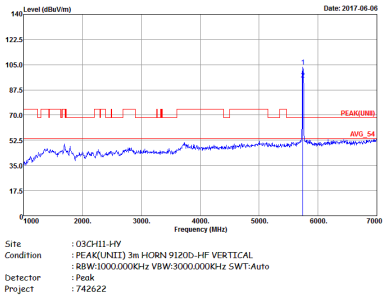
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

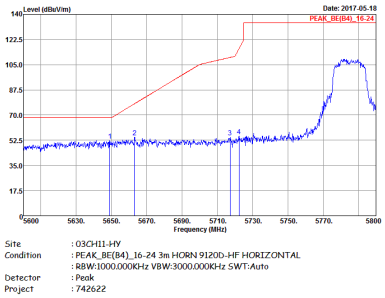
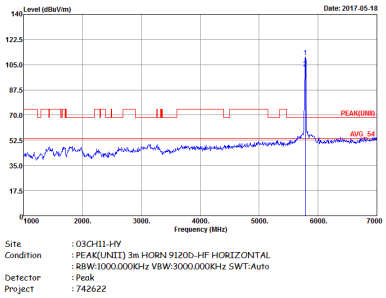
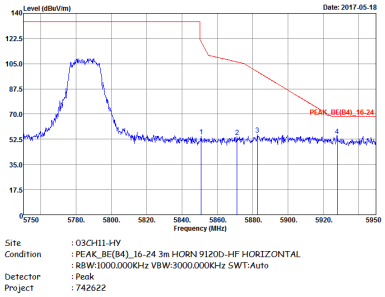
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

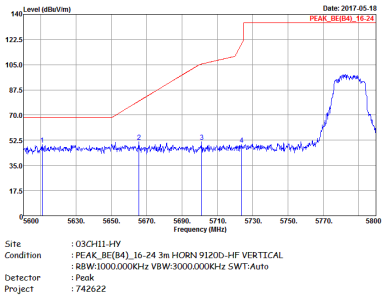
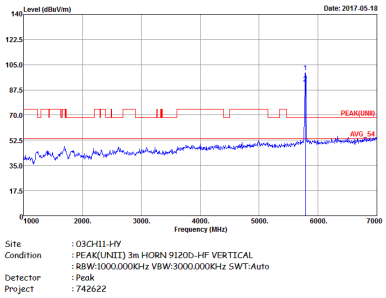
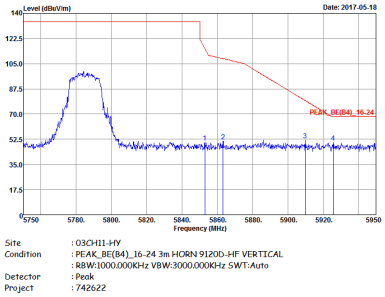
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

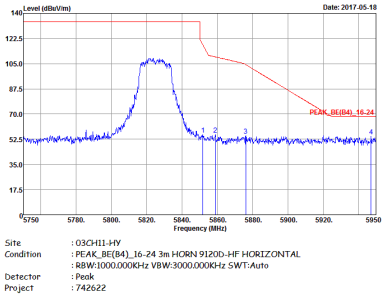
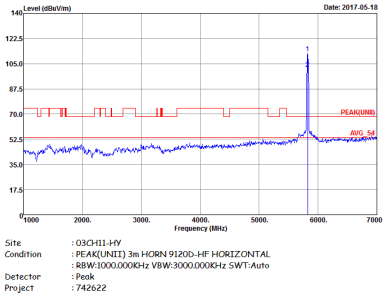
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

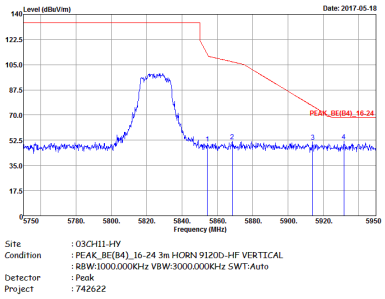
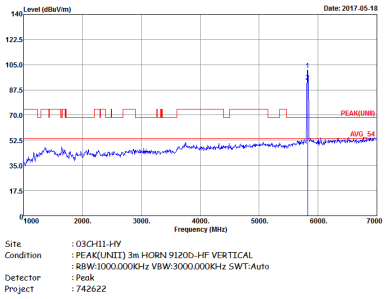
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

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

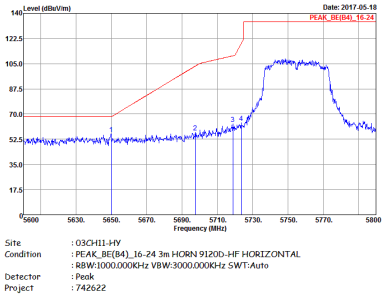
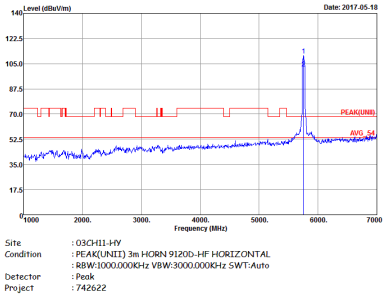
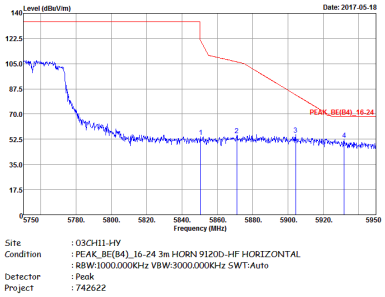
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

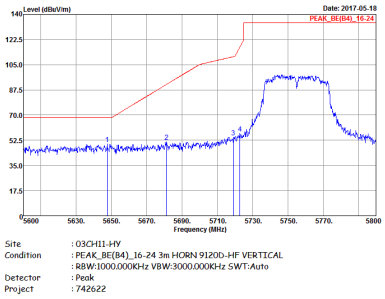
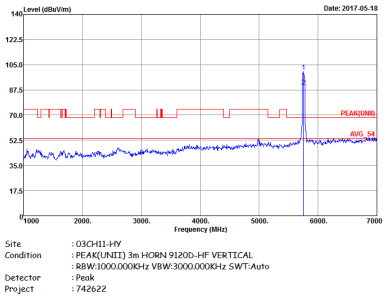
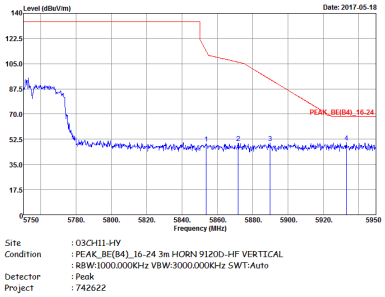
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

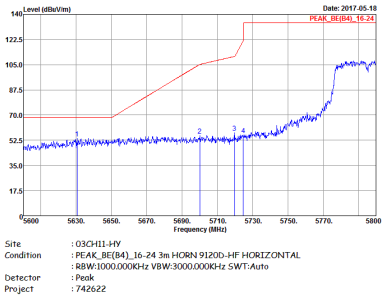
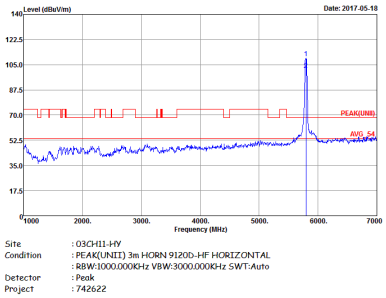
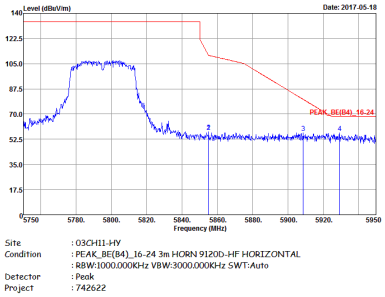
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

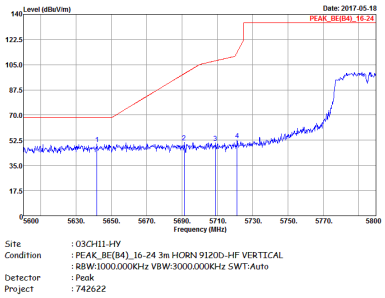
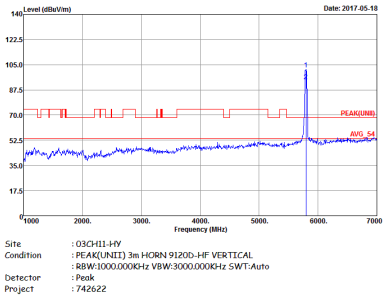
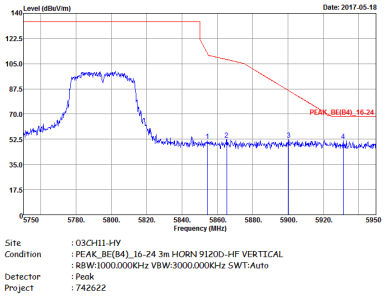
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

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

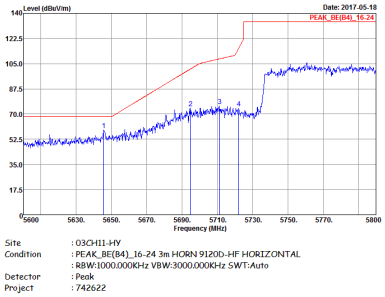
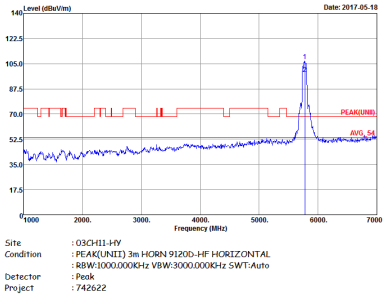
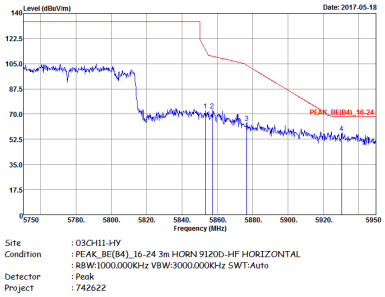
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

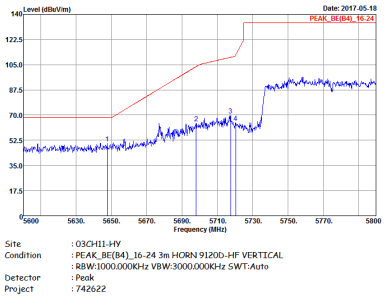
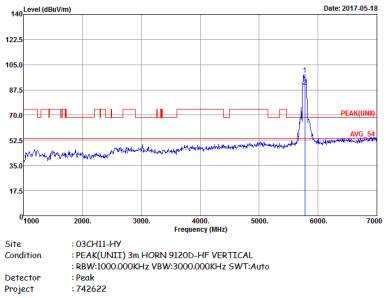
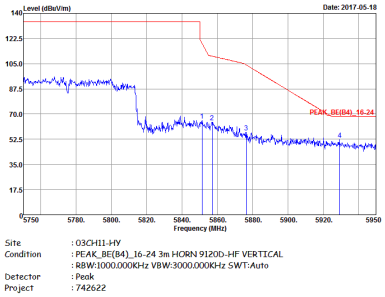
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

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

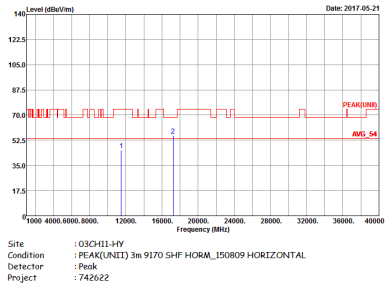
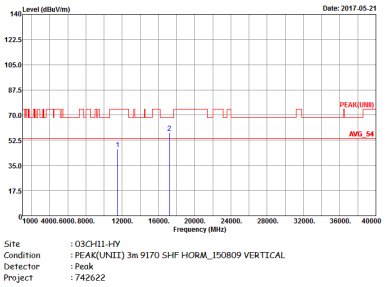
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

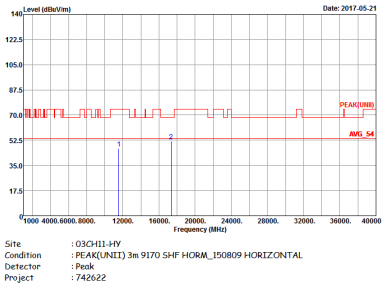
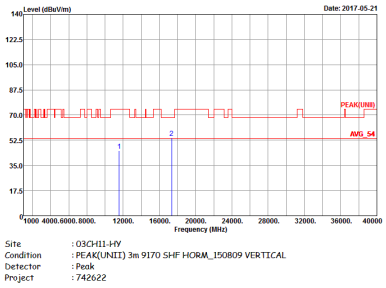
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

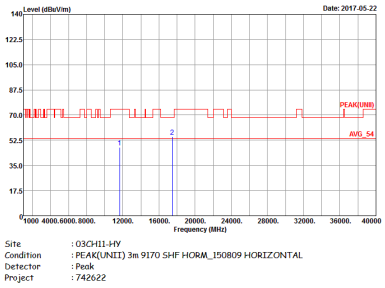
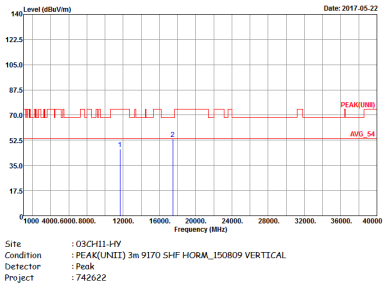
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

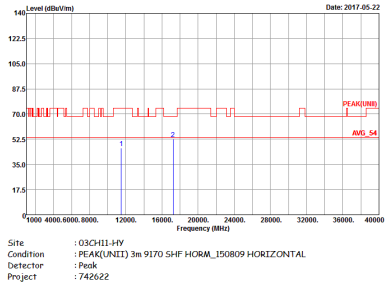
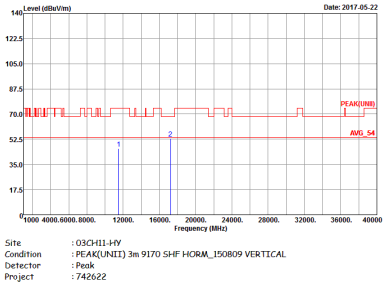
WIFI 802.11a (Harmonic @ 3m)

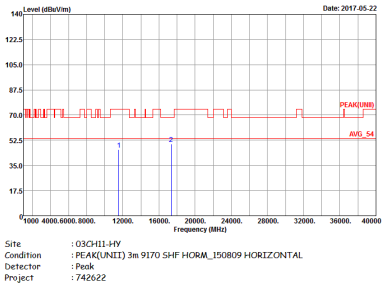
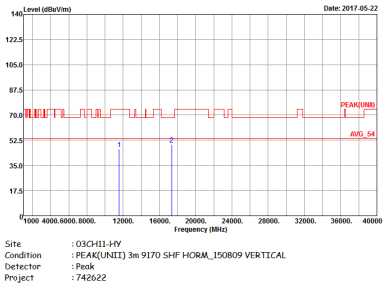
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

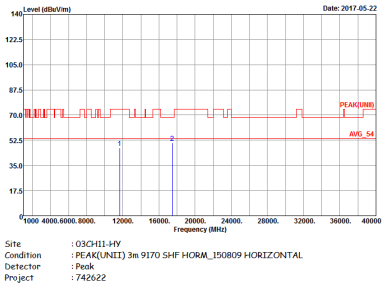
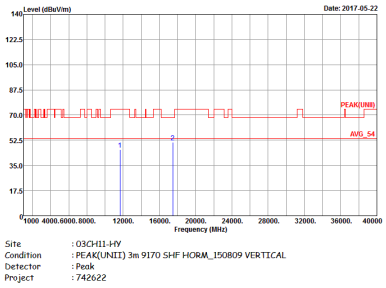
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 742622	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 742622

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 742622	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 742622

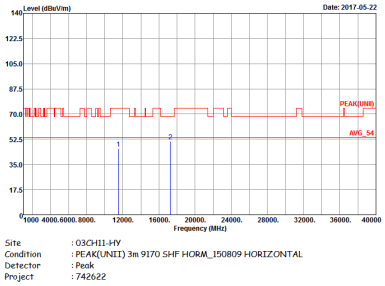
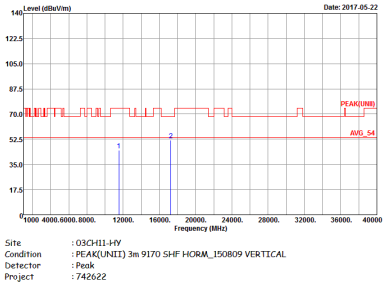
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

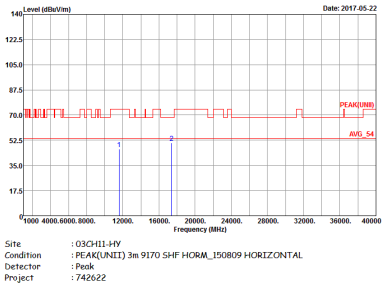
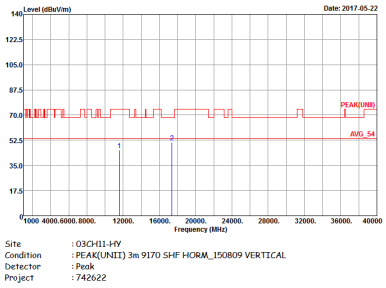
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

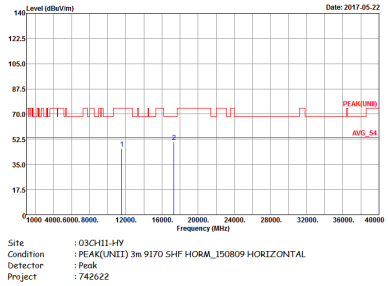
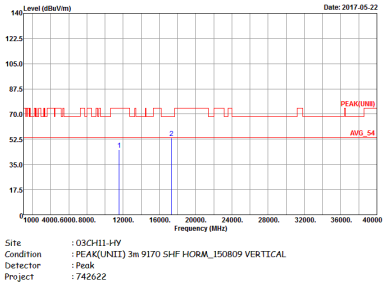
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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.		

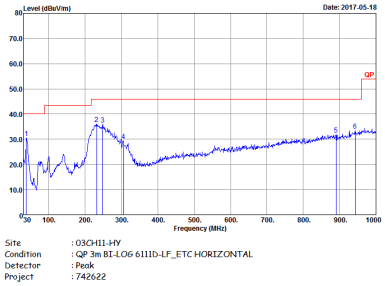
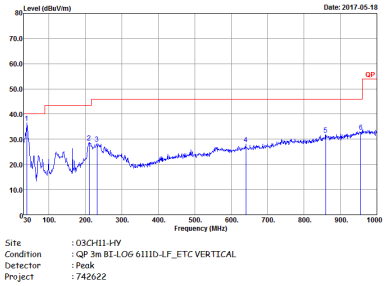
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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)

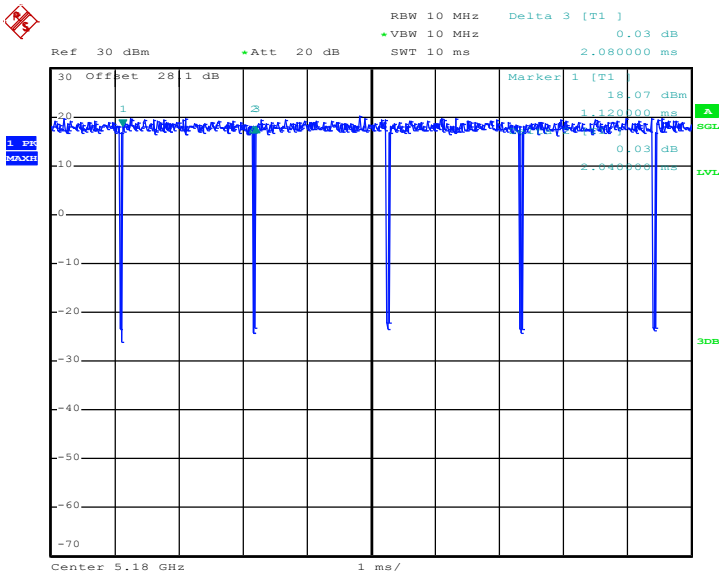
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.08	-	-	10Hz
2	802.11a	98.56	-	-	10Hz
1+2	5GHz 802.11a for Ant 1	98.57	-	-	10Hz
1+2	5GHz 802.11a for Ant 2	98.09	-	-	10Hz
1	5GHz 802.11n HT20	98.45	-	-	10Hz
2	5GHz 802.11n HT20	98.46	-	-	10Hz
1+2	5GHz 802.11n HT20 for Ant 1	98.46	-	-	10Hz
1+2	5GHz 802.11n HT20 for Ant 2	98.46	-	-	10Hz
1	5GHz 802.11n HT40	96.91	940	1.06	3kHz
2	5GHz 802.11n HT40	96.88	930	1.08	3kHz
1+2	5GHz 802.11n HT40 for Ant 1	95.88	930	1.08	3kHz
1+2	5GHz 802.11n HT40 for Ant 2	96.91	940	1.06	3kHz
1	5GHz 802.11ac VHT20	98.47	-	-	10Hz
2	5GHz 802.11ac VHT20	98.46	-	-	10Hz
1+2	5GHz 802.11ac VHT20 for Ant 1	96.06	975	1.03	3kHz
1+2	5GHz 802.11ac VHT20 for Ant 2	97.06	990	1.01	3kHz
1	5GHz 802.11ac VHT40	96.94	950	1.05	3kHz
2	5GHz 802.11ac VHT40	96.94	950	1.05	3kHz
1+2	5GHz 802.11ac VHT40 for Ant 1	94.64	494	2.02	3kHz
1+2	5GHz 802.11ac VHT40 for Ant 2	93.94	496	2.02	3kHz
1	5GHz 802.11ac VHT80	93.97	436	2.29	3kHz
2	5GHz 802.11ac VHT80	93.10	432	2.31	3kHz
1+2	5GHz 802.11ac VHT80 for Ant 1	90.14	256	3.91	10kHz
1+2	5GHz 802.11ac VHT80 for Ant 2	90.07	254	3.94	10kHz

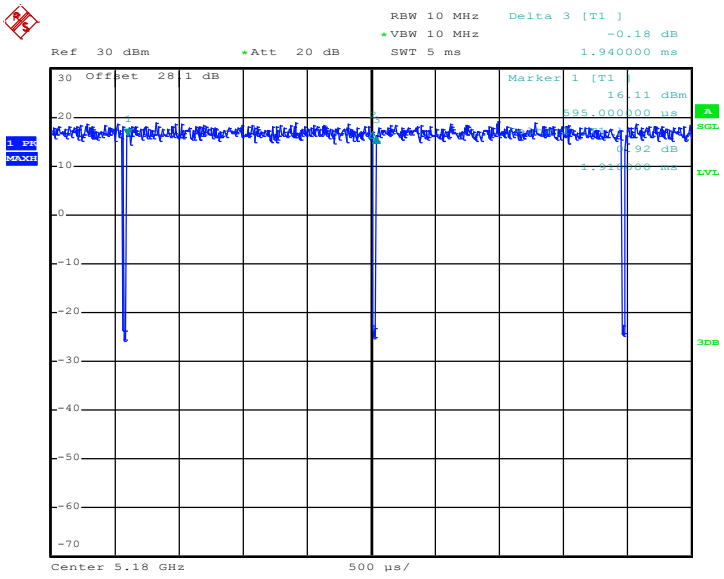
<Ant. 1>

802.11a



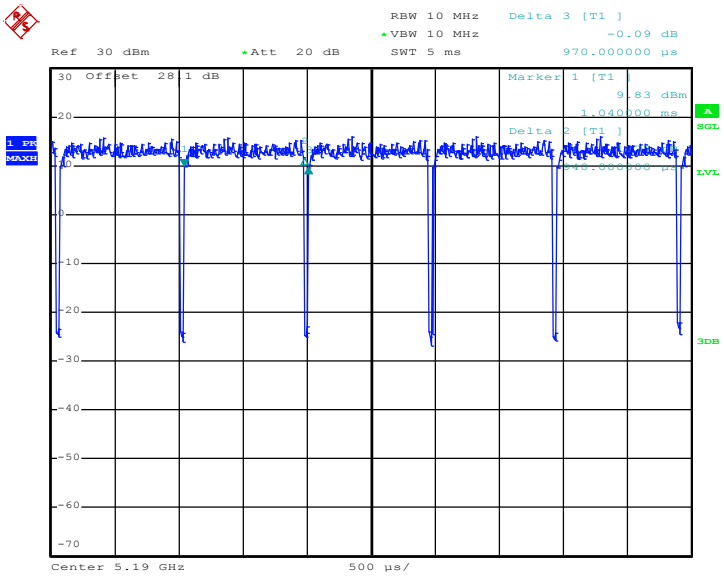
Date: 4.MAY.2017 19:20:48

802.11n HT20



Date: 4.MAY.2017 19:24:08

802.11n HT40



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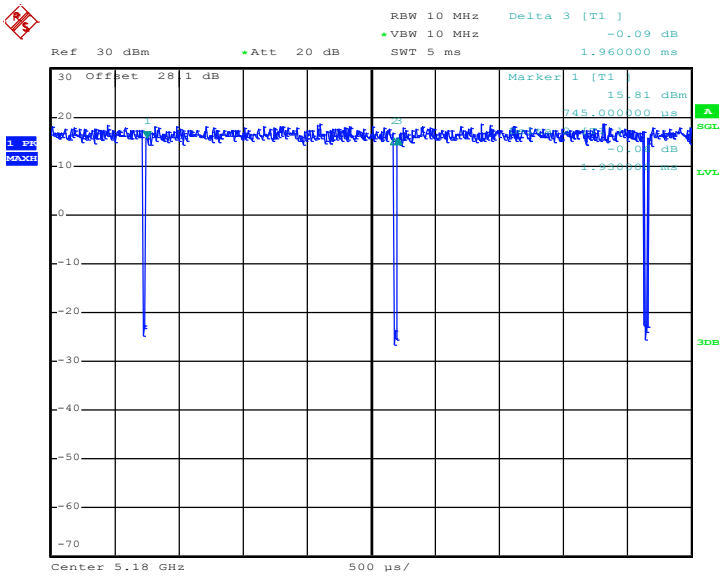
802.11ac VHT20



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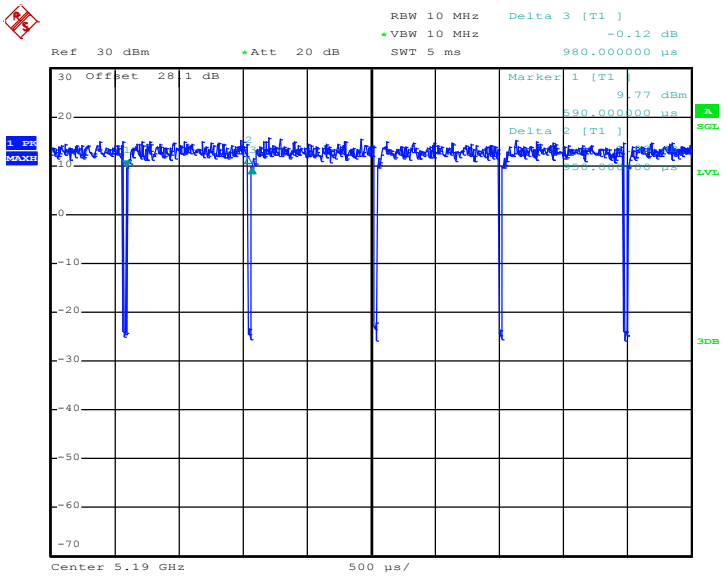
802.11ac VHT40



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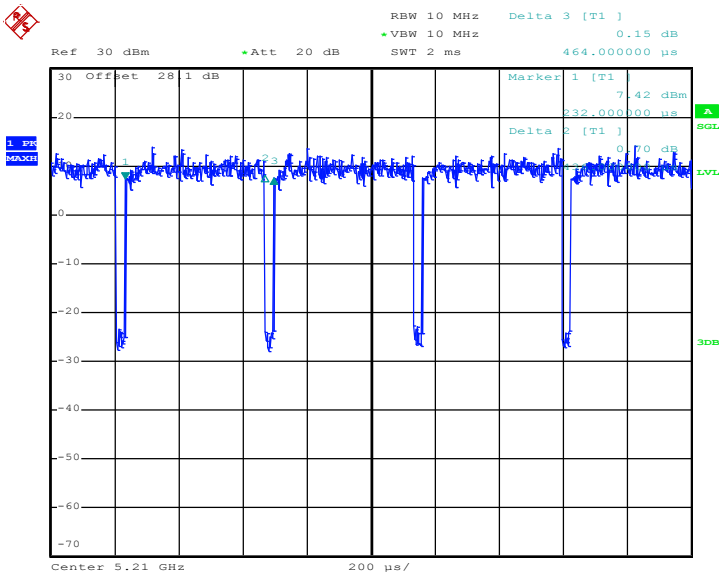
802.11ac VHT80



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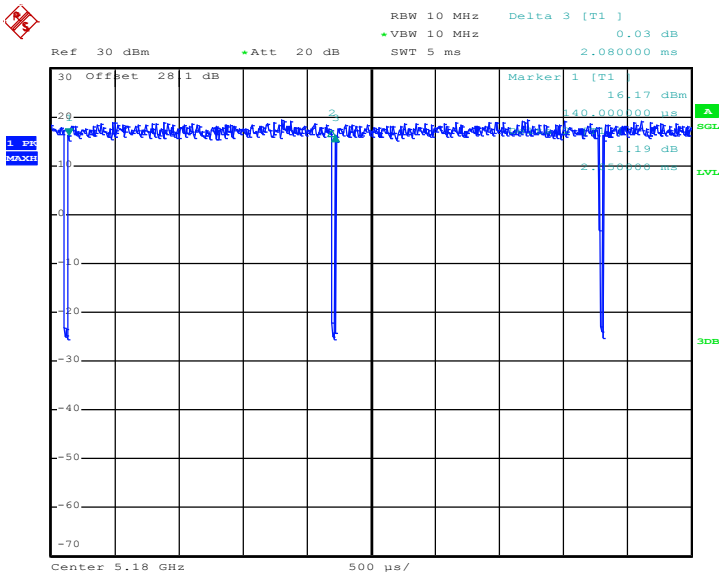

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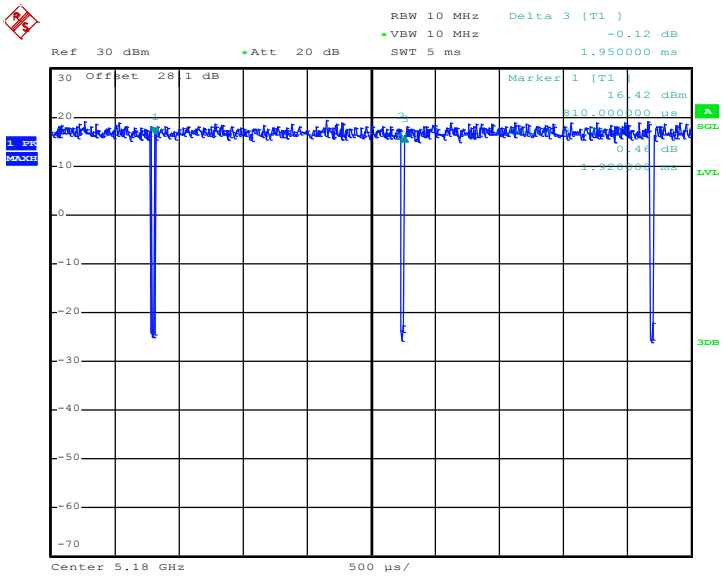

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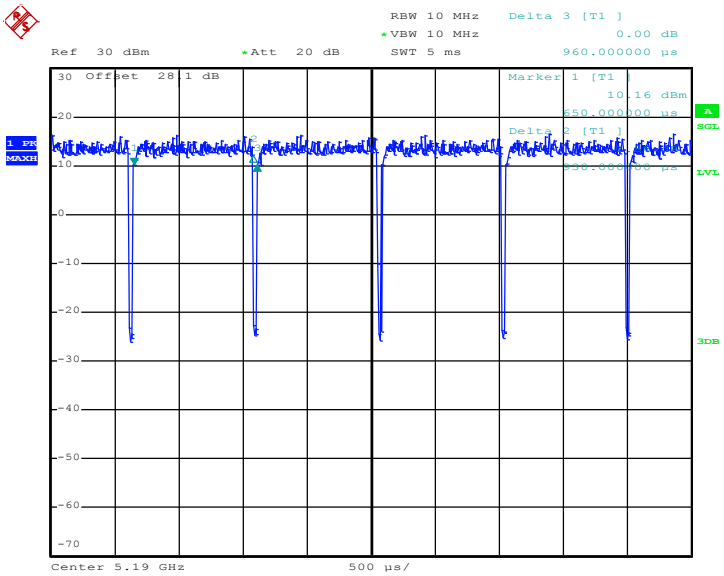

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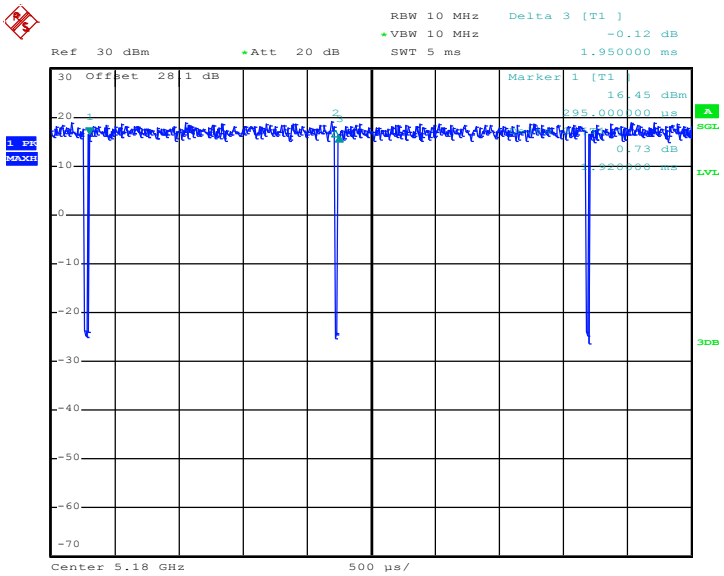

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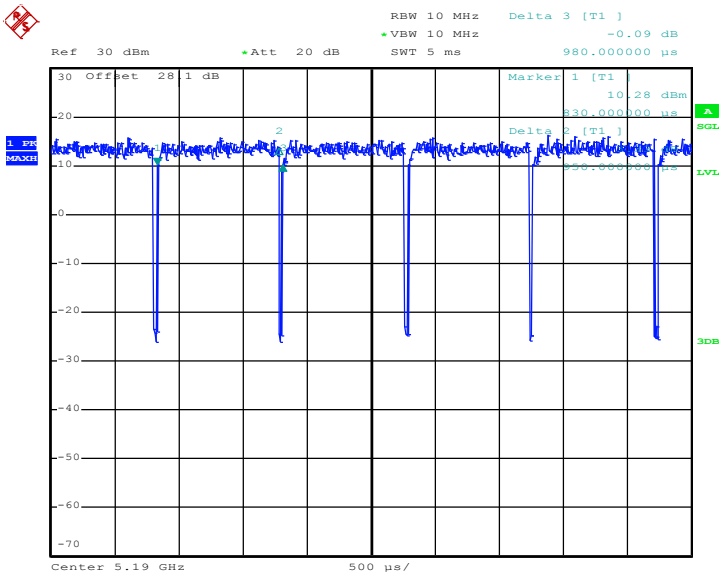

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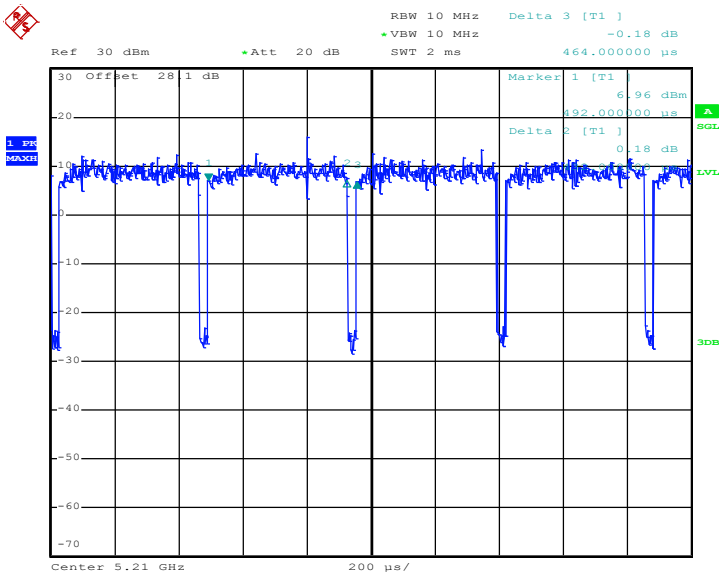

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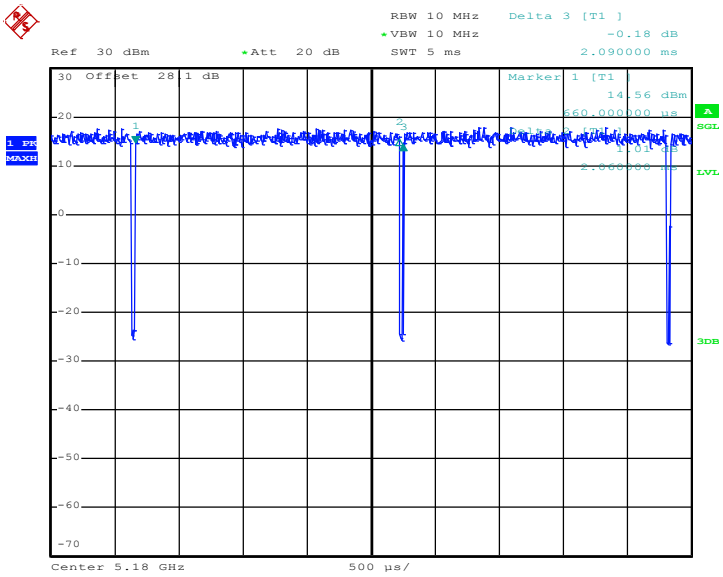

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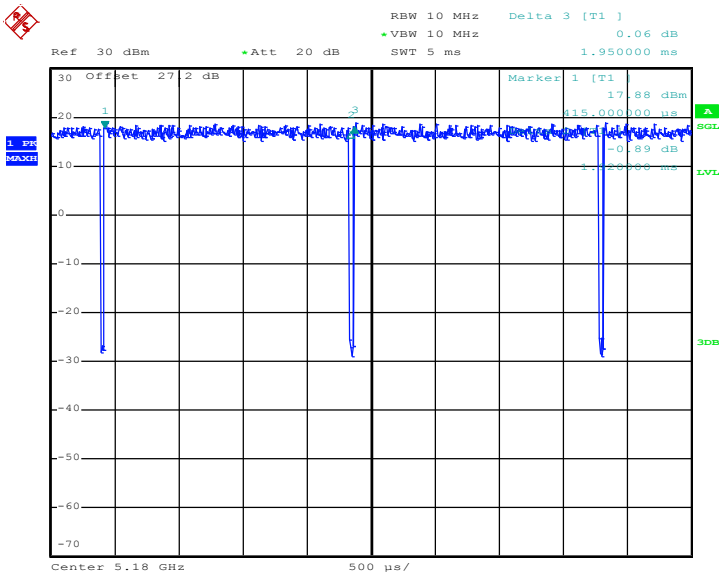

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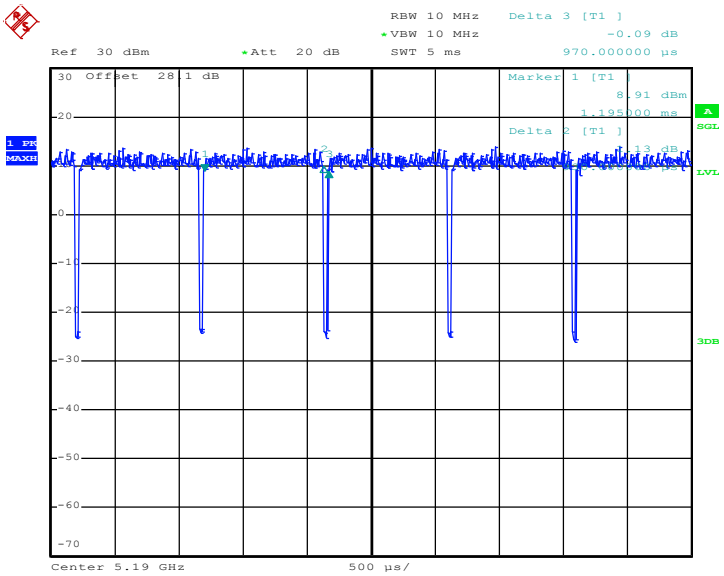

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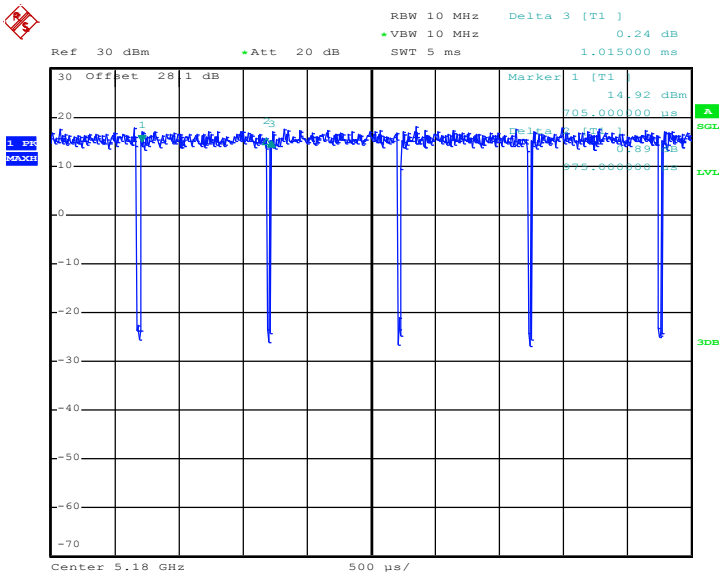

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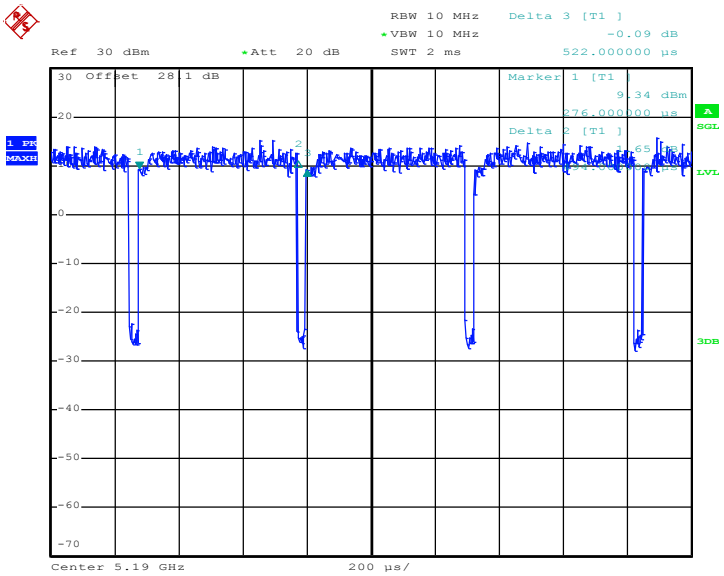

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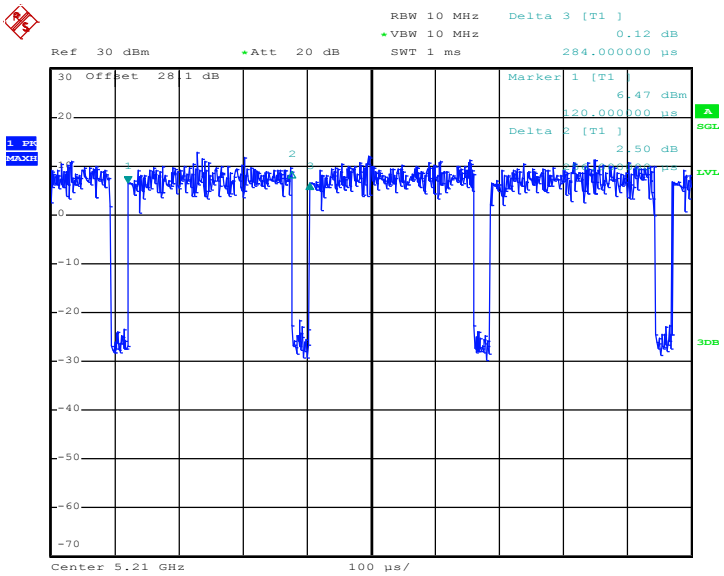

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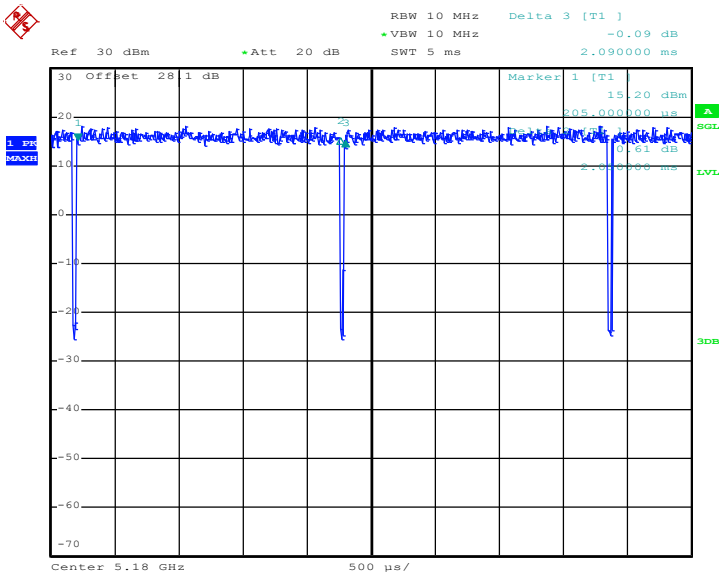

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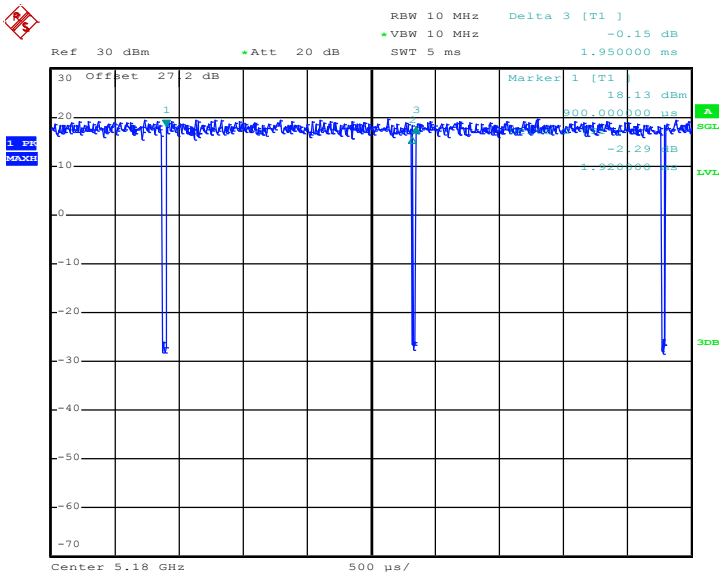

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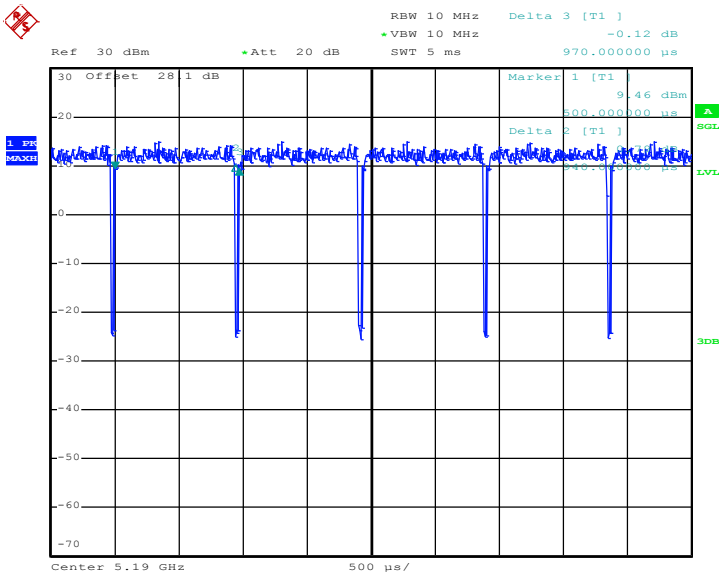

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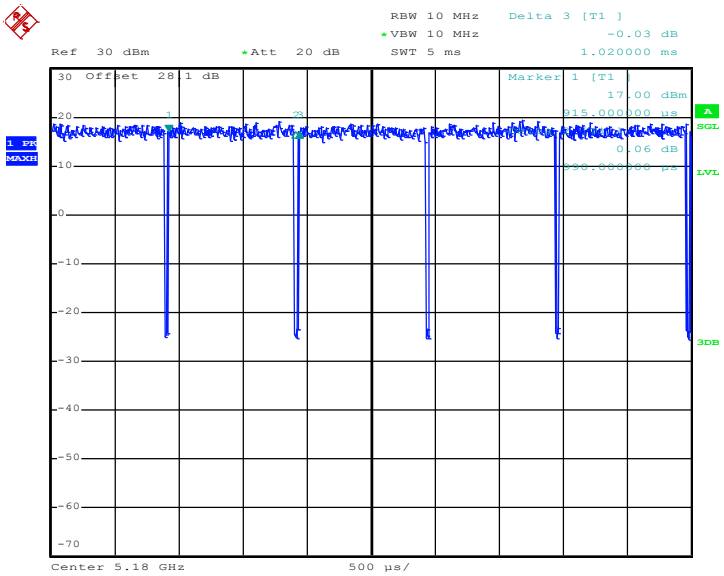

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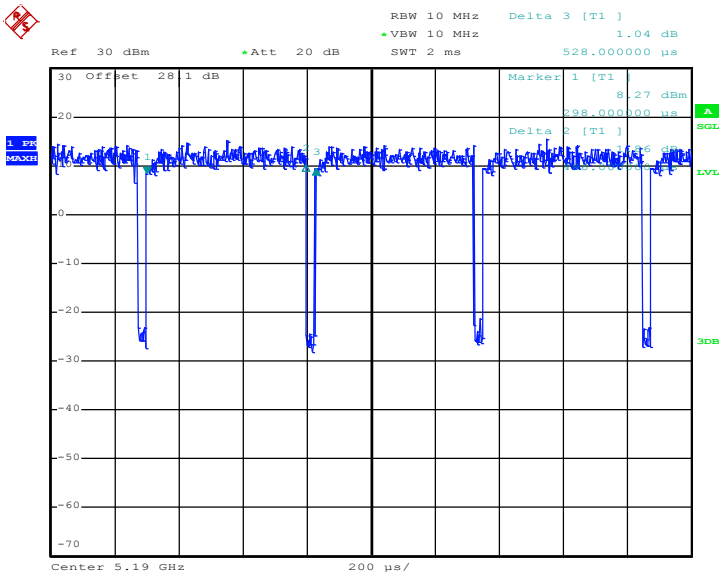

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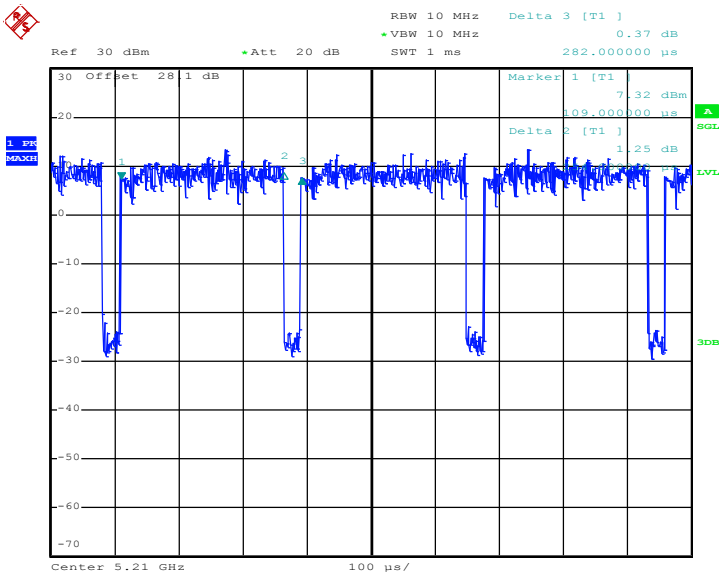

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