FCC RF Test Report

APPLICANT	:	Microstrip LLC
EQUIPMENT	:	Digital Media Receiver
MODEL NAME	:	DW84JL
FCC ID	:	2ANZL-2474
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The test was completed on May 05, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The 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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7D0544-01F	Rev. 01	Initial issue of report	May 14, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
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
3.5	15.207	AC Conducted Emission	15.207(a)	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass

1 General Description

1.1 Applicant

Microstrip LLC
83 Wooster Heights Rd, Suite 125, Danbury, Connecticut, 06810

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	DW84JL
FCC ID	2ANZL-2474
EUT supports Radios application	Zigbee WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	**<Ant. 1>** 802.11a : 19.04 dBm / 0.0802 W 802.11n HT20 : 18.91 dBm / 0.0778 W 802.11n HT40 : 20.20 dBm / 0.1047 W 802.11ac VHT20: 18.89 dBm / 0.0774 W 802.11ac VHT40: 20.12 dBm / 0.1028 W 802.11ac VHT80: 19.04 dBm / 0.0802 W **<Ant. 2>** 802.11a : 19.18 dBm / 0.0828 W 802.11n HT20 : 19.19 dBm / 0.0830 W 802.11n HT40 : 19.79 dBm / 0.0953 W 802.11ac VHT20: 19.09 dBm / 0.0811 W 802.11ac VHT40: 19.71 dBm / 0.0935 W 802.11ac VHT80: 19.29 dBm / 0.0849 W **MIMO <Ant. 1 + 2>** 802.11a : 21.98 dBm / 0.1578 W 802.11n HT20 : 21.91 dBm / 0.1552 W 802.11n HT40 : 22.83 dBm / 0.1919 W 802.11ac VHT20: 21.89 dBm / 0.1545 W 802.11ac VHT40: 22.79 dBm / 0.1901 W 802.11ac VHT80: 21.67 dBm / 0.1469 W

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>99% Occupied Bandwidth</td><td><Ant. 1>
802.11a : 19.40 MHz
802.11n HT20 : 20.35 MHz
802.11n HT40 : 57.10 MHz
802.11ac VHT80 : 76.56 MHz
<Ant. 2>
802.11a : 19.55 MHz
802.11n HT20 : 20.05 MHz
802.11n HT40 : 56.20 MHz
802.11ac VHT80 : 76.44 MHz
MIMO <Ant. 1>
802.11a : 19.60 MHz
802.11n HT20 : 20.10 MHz
802.11n HT40 : 56.40 MHz
802.11ac VHT80 : 76.68 MHz
MIMO <Ant. 2>
802.11a : 19.55 MHz
802.11n HT20 : 19.95 MHz
802.11n HT40 : 54.20 MHz
802.11ac VHT80 : 76.44 MHz</td></tr>
<tr><td>Antenna Type / Gain</td><td><Ant. 1> : Fixed internal Antenna with gain 7.24 dBi
<Ant. 2> : Fixed internal Antenna with gain 3.96 dBi</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><th></th><th>Ant. 1</th><th>Ant. 2</th></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table></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>
</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. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
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 v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

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

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Single Mode

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

MIMO Mode

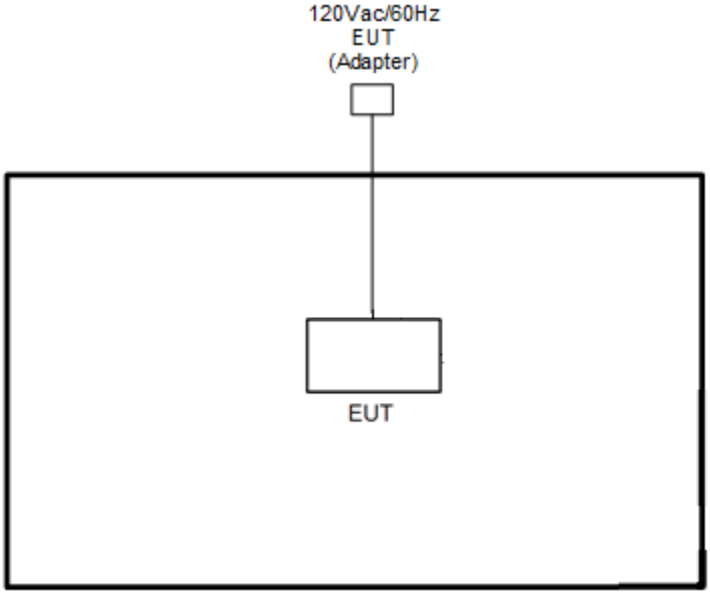
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

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

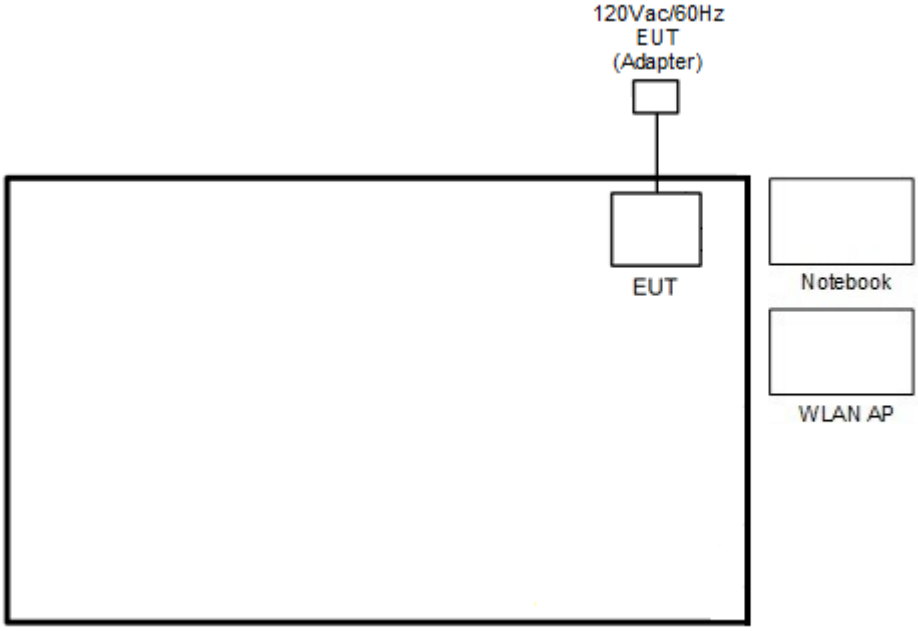
Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

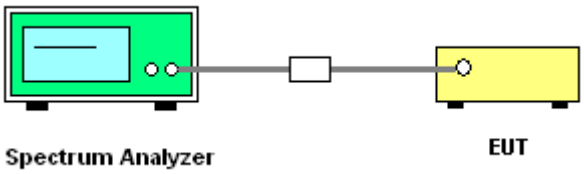
3.1.2 Measuring Instruments

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 v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

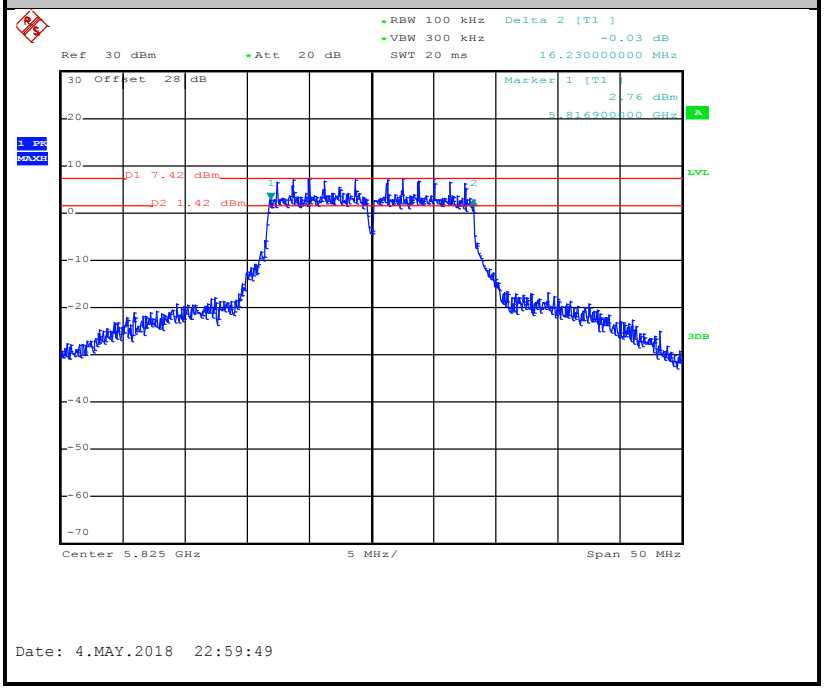
3.1.4 Test Setup



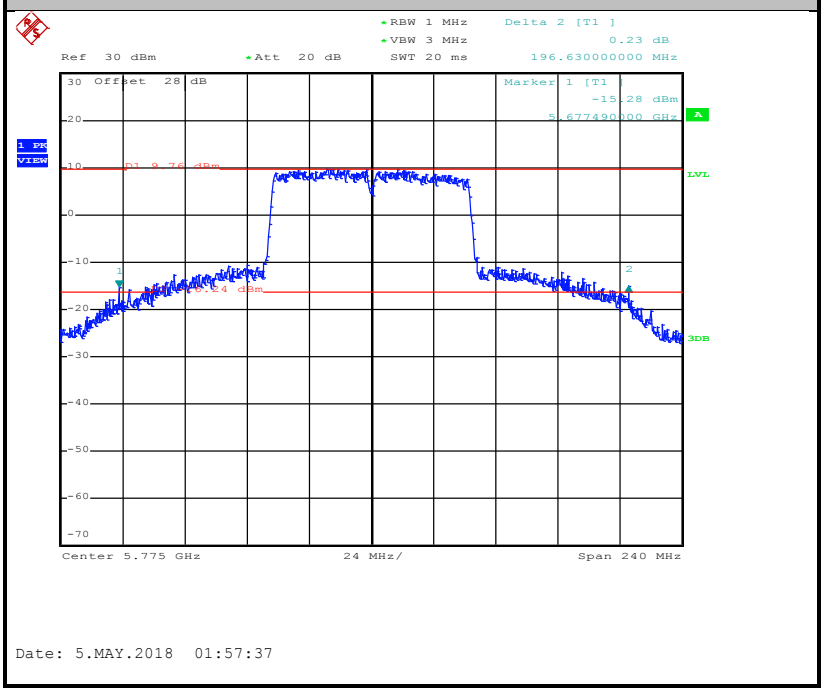
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

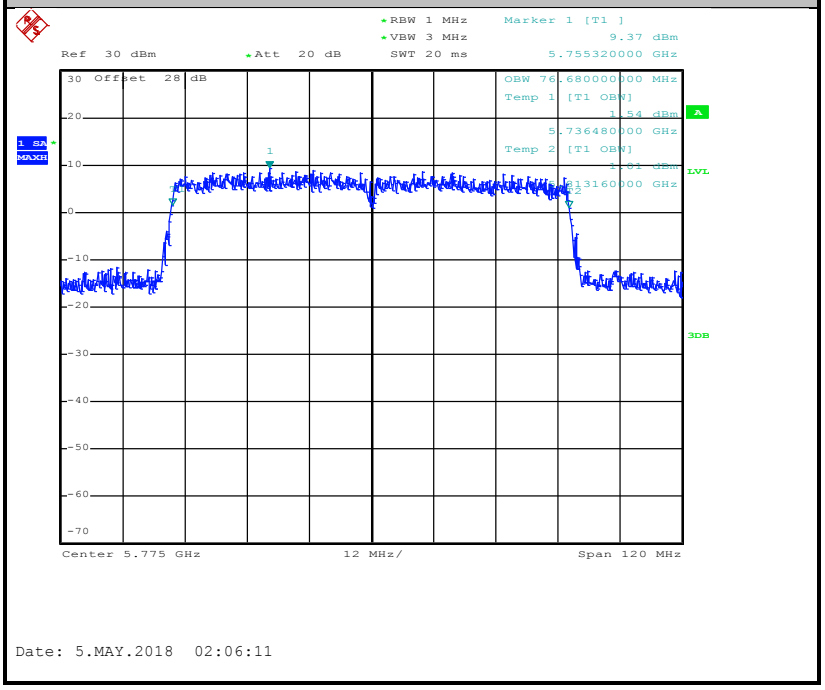
Minimum 6dB Bandwidth



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.

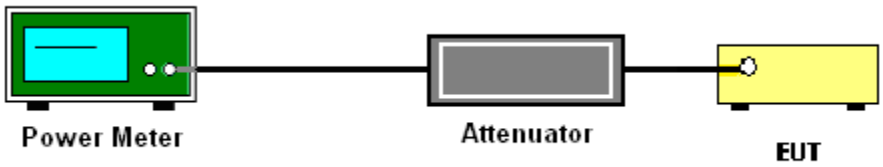
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

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 v02r01.
Section F) Maximum power spectral density.

 # Method SA-2 #

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

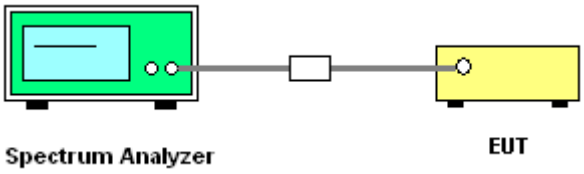
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(500kHz/RBW) 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.

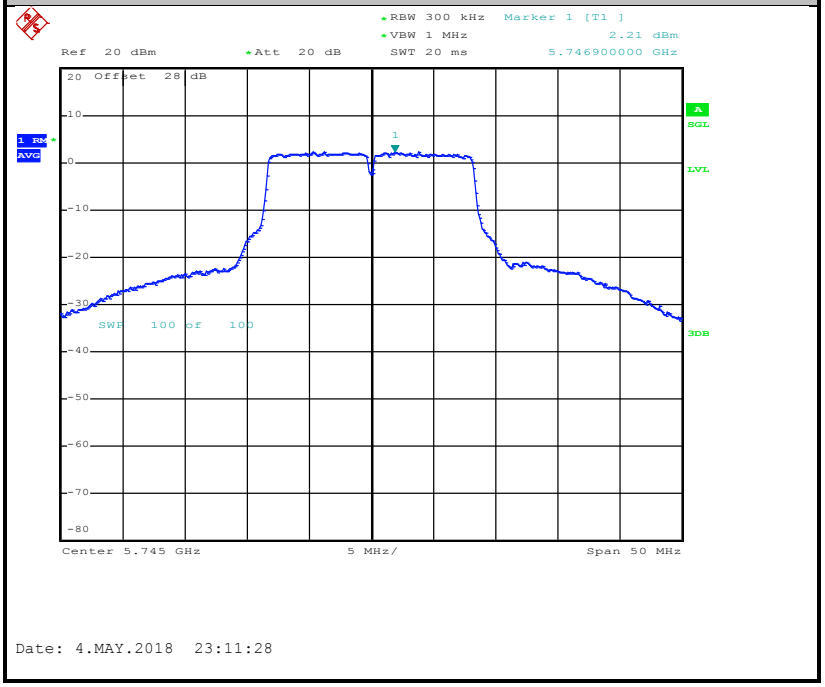
3.3.4 Test Setup



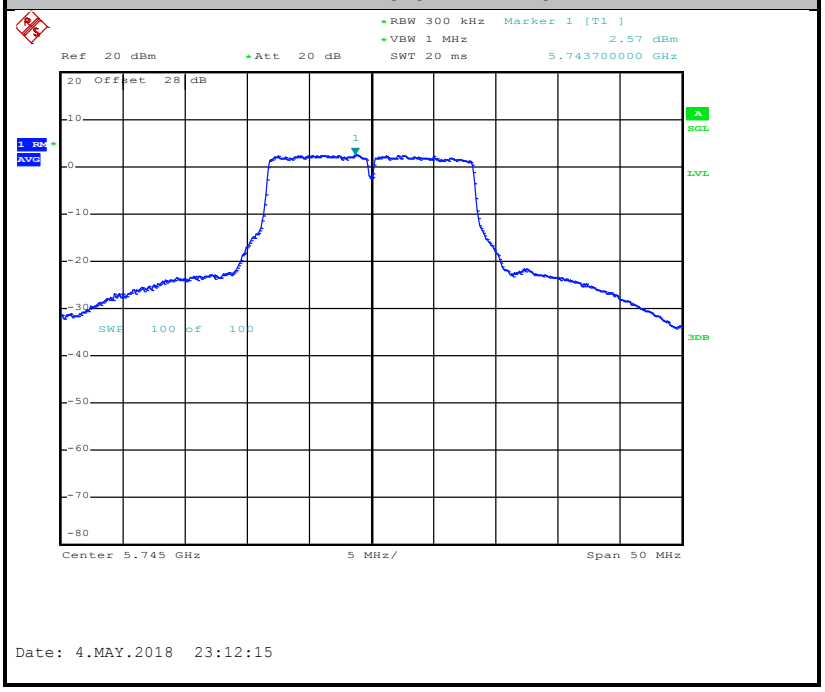
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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



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



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

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 v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

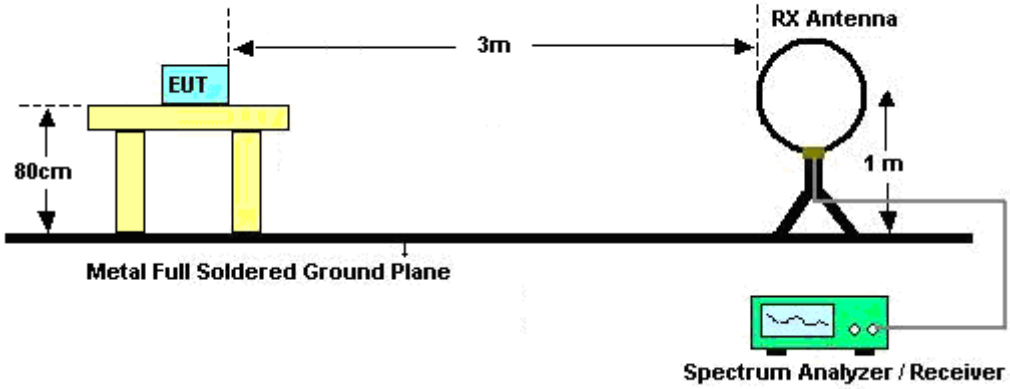
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

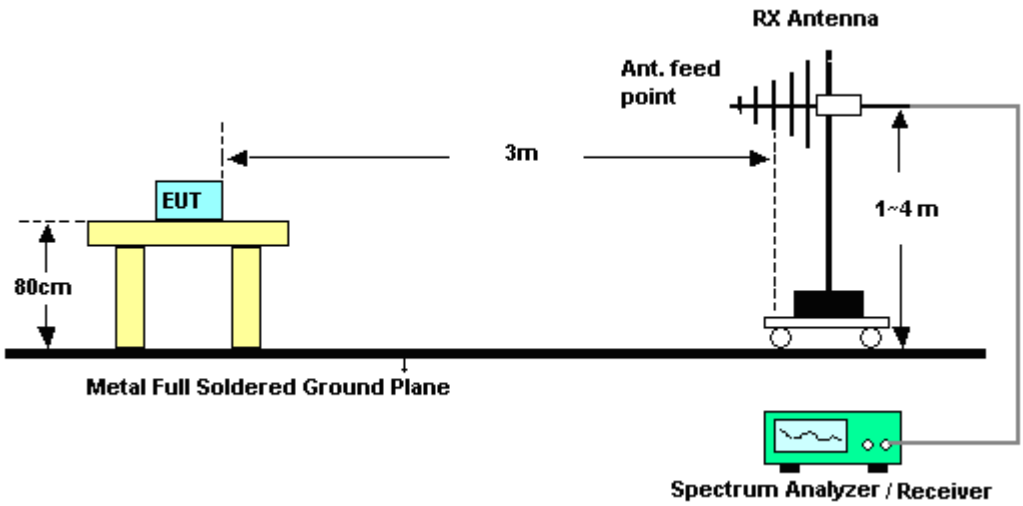
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

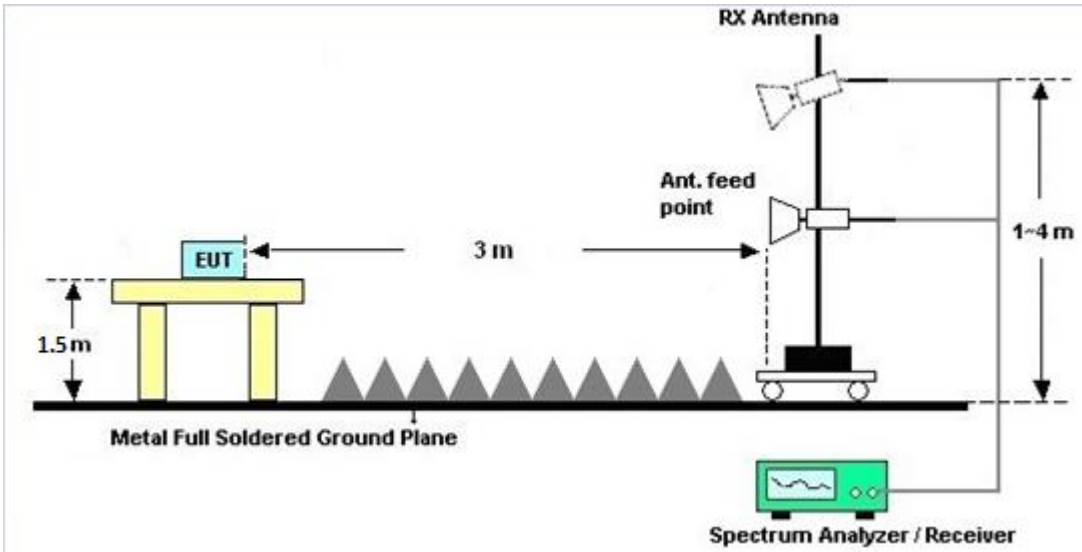
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

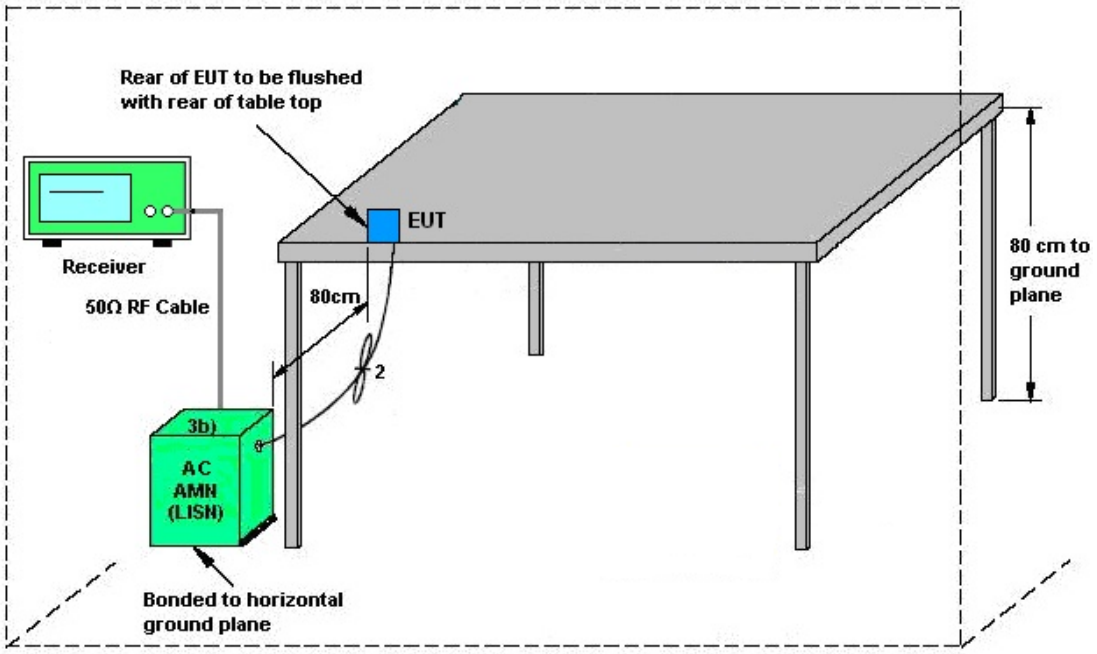
3.5.2 Measuring Instruments

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



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

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

3.6.3 Test Result of Automatically Discontinue Transmission

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

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

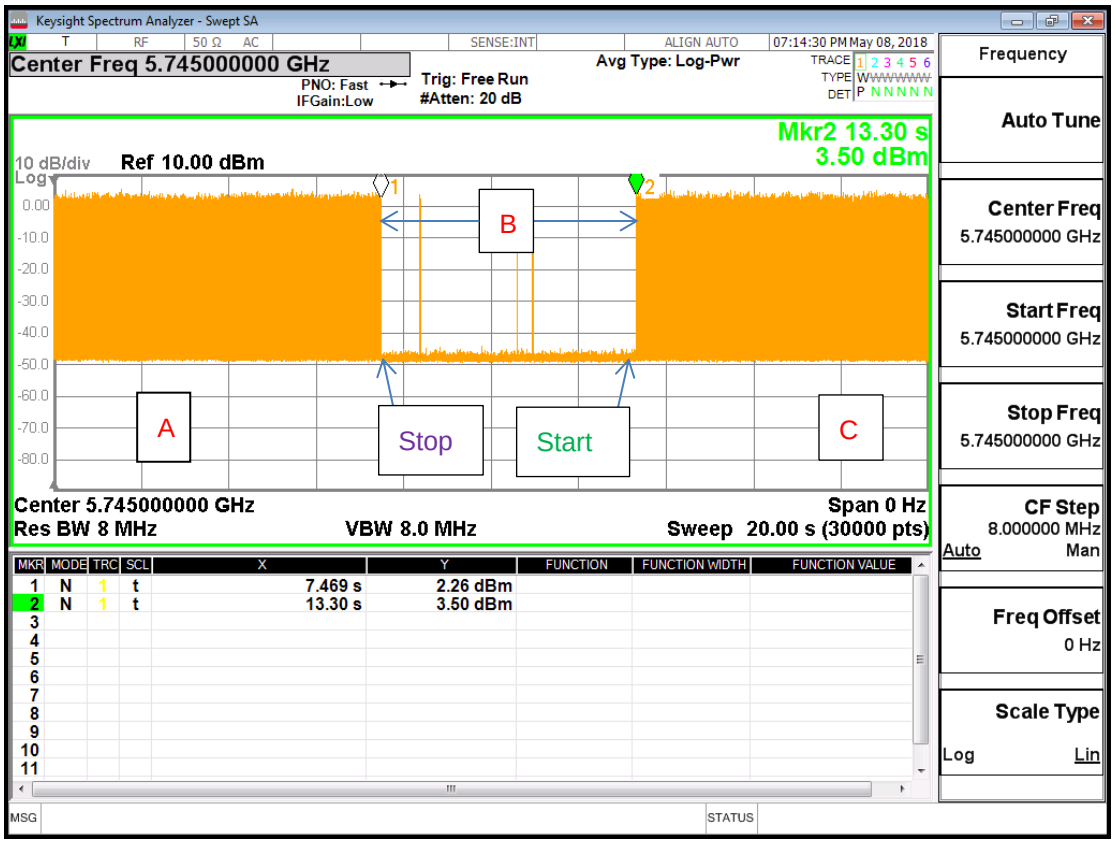
B. Information stop: stop supplying information to the access point.

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

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

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

5745 MHz



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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	7.24	3.91	7.24	8.74	1.24	2.74

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Apr. 17, 2018~ May 05, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Apr. 17, 2018~ May 05, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Apr. 17, 2018~ May 05, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Apr. 17, 2018~ May 05, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 22, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 22, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 22, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Apr. 22, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 22, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 22, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 22, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Apr. 20, 2018~ May 03, 2018	Jul. 17, 2018	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Apr. 20, 2018~ May 03, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	Apr. 20, 2018~ May 03, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 16, 2017	Apr. 20, 2018~ May 03, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Apr. 20, 2018~ May 03, 2018	Nov. 22, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Jan. 16, 2018	Apr. 20, 2018~ May 03, 2018	Jan. 15, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2017	Apr. 20, 2018~ May 03, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 20, 2018~ May 03, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 20, 2018~ May 03, 2018	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Apr. 20, 2018~ May 03, 2018	May 21, 2018	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Apr. 20, 2018~ May 03, 2018	Nov. 26, 2018	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	9K-30M	Mar. 20, 2018	Apr. 20, 2018~ May 03, 2018	Mar. 19, 2019	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4	30M-18G	Mar. 15, 2018	Apr. 20, 2018~ May 03, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2589/2	30M-18G	Mar. 15, 2018	Apr. 20, 2018~ May 03, 2018	Mar. 14, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 18, 2017	Apr. 20, 2018~ May 03, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 18, 2017	Apr. 20, 2018~ May 03, 2018	Sep. 17, 2018	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 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:	Rebecca Li / Luffy Lin	Temperature:	21~25	°C
Test Date:	2018/4/17~2018/05/05	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	19.30	19.55	38.70	38.03	16.30	16.33	0.5	0.5	Pass
11a	6Mbps	1	157	5785	19.35	19.30	38.10	37.87	16.30	16.30	0.5	0.5	Pass
11a	6Mbps	1	165	5825	19.40	18.95	38.13	38.00	16.30	16.23	0.5	0.5	Pass
HT20	MCS0	1	149	5745	20.00	19.90	46.56	45.76	17.52	17.60	0.5	0.5	Pass
HT20	MCS0	1	157	5785	20.35	20.05	45.30	46.63	17.53	17.53	0.5	0.5	Pass
HT20	MCS0	1	165	5825	19.95	19.70	47.85	45.86	17.53	17.53	0.5	0.5	Pass
HT40	MCS0	1	151	5755	56.80	52.50	100.25	98.51	36.00	36.28	0.5	0.5	Pass
HT40	MCS0	1	159	5795	57.10	56.20	101.76	100.56	36.18	36.18	0.5	0.5	Pass
VHT80	MCS0	1	155	5775	76.56	76.44	196.63	166.56	75.20	75.20	0.5	0.5	Pass
11a	6Mbps	2	149	5745	19.35	19.05	38.83	39.02	16.36	16.36	0.5		Pass
11a	6Mbps	2	157	5785	19.60	19.55	39.30	40.40	16.30	16.34	0.5		Pass
11a	6Mbps	2	165	5825	19.60	19.35	39.20	39.20	16.30	16.30	0.5		Pass
HT20	MCS0	2	149	5745	19.95	19.65	47.43	44.70	17.53	17.60	0.5		Pass
HT20	MCS0	2	157	5785	19.95	19.95	46.60	46.08	17.53	17.53	0.5		Pass
HT20	MCS0	2	165	5825	20.10	19.60	47.80	44.24	17.53	17.56	0.5		Pass
HT40	MCS0	2	151	5755	56.40	54.20	100.50	98.80	36.20	36.36	0.5		Pass
HT40	MCS0	2	159	5795	52.00	49.50	101.76	96.00	36.20	36.24	0.5		Pass
VHT80	MCS0	2	155	5775	76.68	76.44	185.12	177.95	75.52	75.20	0.5		Pass

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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	0.32	0.32	19.04	19.18		28.76	30.00	7.24	3.91		Pass
11a	6Mbps	1	157	5785	0.32	0.32	18.87	18.97		28.76	30.00	7.24	3.91		Pass
11a	6Mbps	1	165	5825	0.32	0.32	18.53	18.75		28.76	30.00	7.24	3.91		Pass
HT20	MCS0	1	149	5745	0.34	0.00	18.91	19.19		28.76	30.00	7.24	3.91		Pass
HT20	MCS0	1	157	5785	0.34	0.00	18.85	18.89		28.76	30.00	7.24	3.91		Pass
HT20	MCS0	1	165	5825	0.34	0.00	18.72	18.83		28.76	30.00	7.24	3.91		Pass
HT40	MCS0	1	151	5755	0.66	0.66	20.20	19.79		28.76	30.00	7.24	3.91		Pass
HT40	MCS0	1	159	5795	0.66	0.66	20.03	19.28		28.76	30.00	7.24	3.91		Pass
VHT20	MCS0	1	149	5745	0.34	0.34	18.89	19.09		28.76	30.00	7.24	3.91		Pass
VHT20	MCS0	1	157	5785	0.34	0.34	18.83	18.85		28.76	30.00	7.24	3.91		Pass
VHT20	MCS0	1	165	5825	0.34	0.34	18.68	18.75		28.76	30.00	7.24	3.91		Pass
VHT40	MCS0	1	151	5755	0.62	0.69	20.12	19.71		28.76	30.00	7.24	3.91		Pass
VHT40	MCS0	1	159	5795	0.62	0.69	19.95	19.08		28.76	30.00	7.24	3.91		Pass
VHT80	MCS0	1	155	5775	1.18	1.20	19.04	19.29		28.76	30.00	7.24	3.91		Pass
11a	6Mbps	2	149	5745	0.29	0.32	18.88	19.05	21.98	28.76		7.24			Pass
11a	6Mbps	2	157	5785	0.29	0.32	18.75	18.91	21.84	28.76		7.24			Pass
11a	6Mbps	2	165	5825	0.29	0.32	18.56	18.71	21.65	28.76		7.24			Pass
HT20	MCS0	2	149	5745	0.31	0.34	18.71	19.08	21.91	28.76		7.24			Pass
HT20	MCS0	2	157	5785	0.31	0.34	18.66	18.82	21.75	28.76		7.24			Pass
HT20	MCS0	2	165	5825	0.31	0.34	18.40	18.68	21.56	28.76		7.24			Pass
HT40	MCS0	2	151	5755	0.62	0.62	20.03	19.60	22.83	28.76		7.24			Pass
HT40	MCS0	2	159	5795	0.62	0.62	19.79	18.70	22.29	28.76		7.24			Pass
VHT20	MCS0	2	149	5745	0.31	0.34	18.79	18.97	21.89	28.76		7.24			Pass
VHT20	MCS0	2	157	5785	0.31	0.34	18.67	18.79	21.74	28.76		7.24			Pass
VHT20	MCS0	2	165	5825	0.31	0.34	18.47	18.53	21.51	28.76		7.24			Pass
VHT40	MCS0	2	151	5755	0.62	0.62	19.94	19.61	22.79	28.76		7.24			Pass
VHT40	MCS0	2	159	5795	0.62	0.62	19.49	18.58	22.07	28.76		7.24			Pass
VHT80	MCS0	2	155	5775	1.14	1.19	18.68	18.64	21.67	28.76		7.24			Pass

Report Number : FR7D0544-01F

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	0.32	0.32	2.22	2.22	5.21	4.84		28.76	30.00	7.24	3.91	Pass
11a	6Mbps	1	157	5785	0.32	0.32	2.22	2.22	4.74	4.54		28.76	30.00	7.24	3.91	Pass
11a	6Mbps	1	165	5825	0.32	0.32	2.22	2.22	4.54	4.25		28.76	30.00	7.24	3.91	Pass
HT20	MCS0	1	149	5745	0.34	0.00	2.22	2.22	4.72	4.51		28.76	30.00	7.24	3.91	Pass
HT20	MCS0	1	157	5785	0.34	0.00	2.22	2.22	4.25	3.78		28.76	30.00	7.24	3.91	Pass
HT20	MCS0	1	165	5825	0.34	0.00	2.22	2.22	3.82	3.49		28.76	30.00	7.24	3.91	Pass
HT40	MCS0	1	151	5755	0.66	0.66	2.22	2.22	2.99	2.80		28.76	30.00	7.24	3.91	Pass
HT40	MCS0	1	159	5795	0.66	0.66	2.22	2.22	2.65	2.45		28.76	30.00	7.24	3.91	Pass
VHT80	MCS0	1	155	5775	1.18	1.20	2.22	2.22	-1.16	-0.66		28.76	30.00	7.24	3.91	Pass
11a	6Mbps	2	149	5745	0.29	0.32	2.22		4.72	2.89	8.12	27.26		8.74		Pass
11a	6Mbps	2	157	5785	0.29	0.32	2.22		4.23	2.21	7.44	27.26		8.74		Pass
11a	6Mbps	2	165	5825	0.29	0.32	2.22		4.08	1.94	7.17	27.26		8.74		Pass
HT20	MCS0	2	149	5745	0.31	0.34	2.22		4.65	2.55	7.78	27.26		8.74		Pass
HT20	MCS0	2	157	5785	0.31	0.34	2.22		4.23	1.77	7.24	27.26		8.74		Pass
HT20	MCS0	2	165	5825	0.31	0.34	2.22		3.78	1.73	6.96	27.26		8.74		Pass
HT40	MCS0	2	151	5755	0.62	0.62	2.22		2.86	0.87	6.10	27.26		8.74		Pass
HT40	MCS0	2	159	5795	0.62	0.62	2.22		1.92	-0.32	4.93	27.26		8.74		Pass
VHT80	MCS0	2	155	5775	1.14	1.19	2.22		-1.06	-3.33	1.95	27.26		8.74		Pass

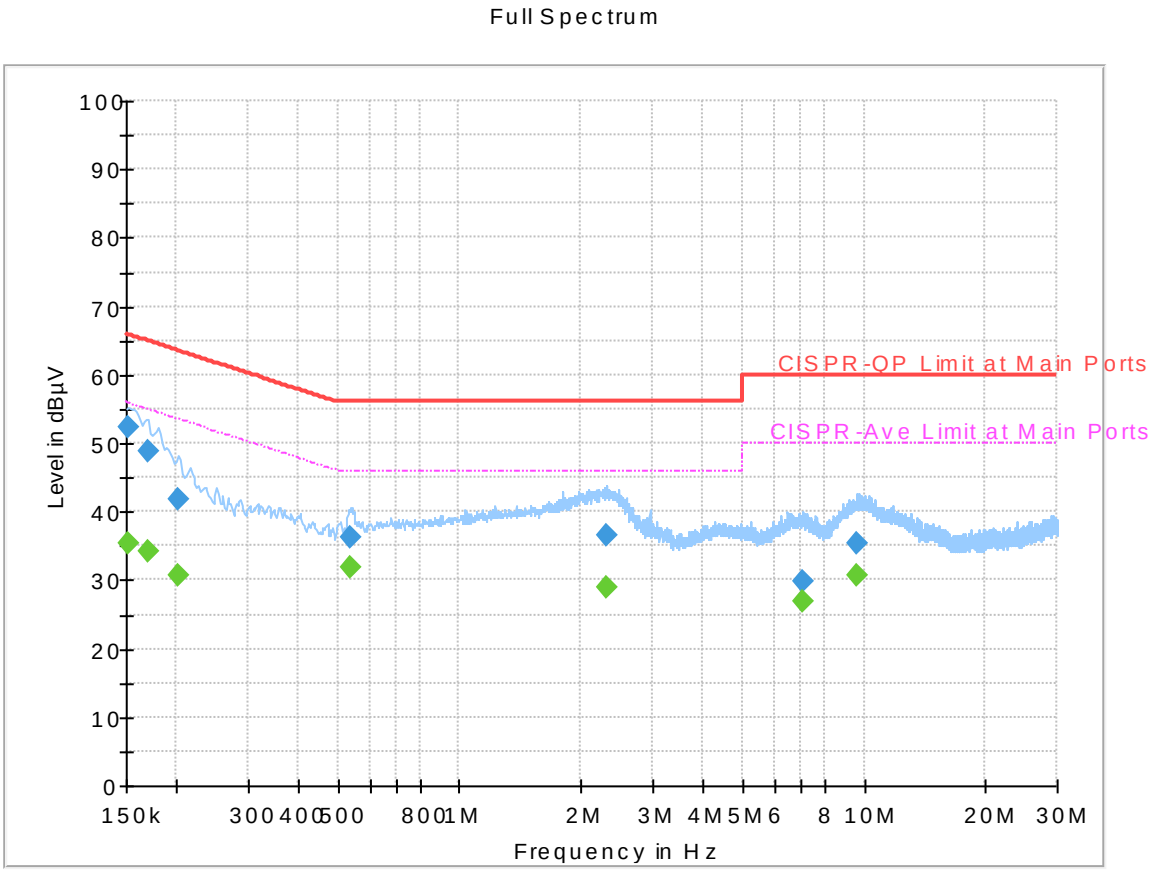
Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	**Temperature :**	21~25℃
		Relative Humidity :	51~55%

EUT Information

Report NO :	7D0544-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

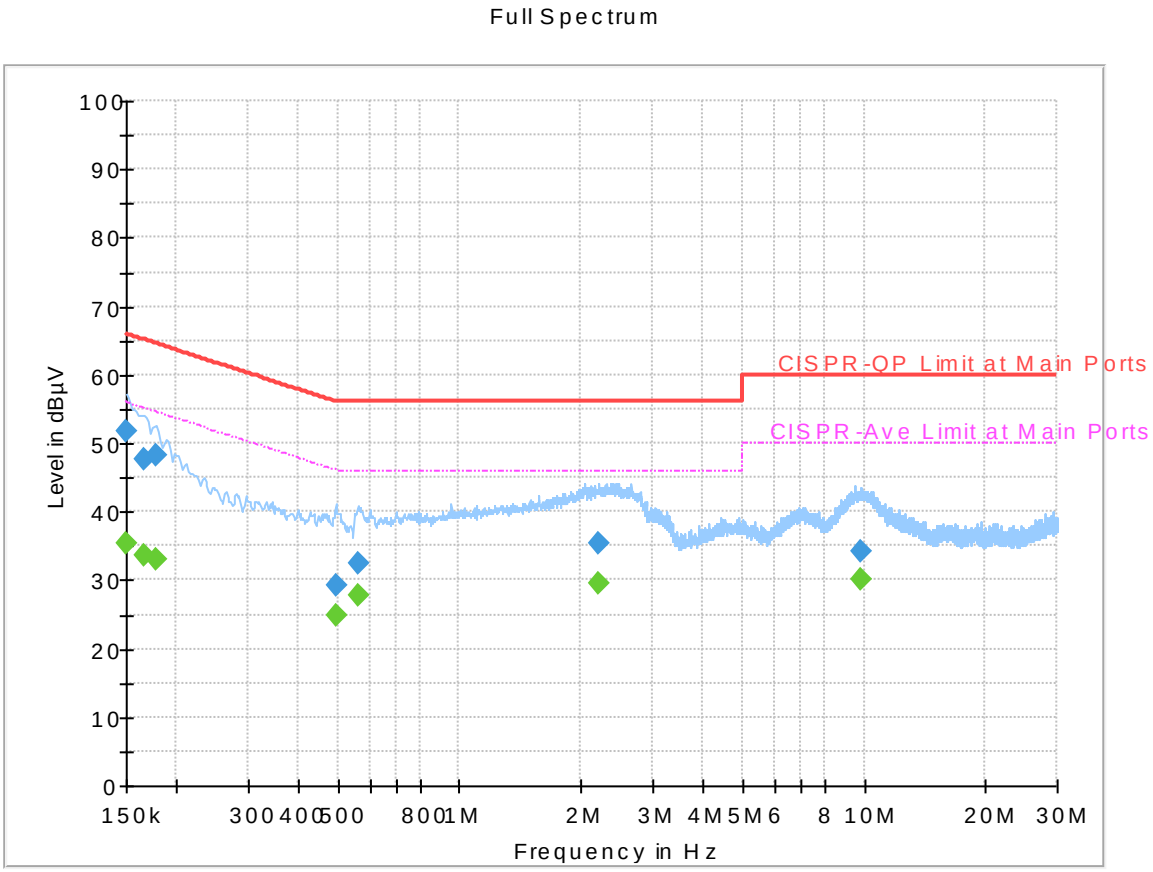


Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	35.25	55.88	20.63	L1	OFF	19.5
0.152250	52.30	---	65.88	13.58	L1	OFF	19.5
0.170250	---	34.11	54.95	20.84	L1	OFF	19.5
0.170250	48.74	---	64.95	16.21	L1	OFF	19.5
0.201750	---	30.57	53.54	22.97	L1	OFF	19.5
0.201750	41.79	---	63.54	21.75	L1	OFF	19.5
0.534750	---	31.92	46.00	14.08	L1	OFF	19.5
0.534750	36.28	---	56.00	19.72	L1	OFF	19.5
2.305500	---	29.09	46.00	16.91	L1	OFF	19.5
2.305500	36.65	---	56.00	19.35	L1	OFF	19.5
7.035000	---	26.97	50.00	23.03	L1	OFF	19.6
7.035000	29.80	---	60.00	30.20	L1	OFF	19.6
9.638250	---	30.64	50.00	19.36	L1	OFF	19.7
9.638250	35.50	---	60.00	24.50	L1	OFF	19.7

EUT Information

Report NO :	7D0544-01
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	35.27	56.00	20.73	N	OFF	19.5
0.150000	51.77	---	66.00	14.23	N	OFF	19.5
0.165750	---	33.50	55.17	21.67	N	OFF	19.5
0.165750	47.59	---	65.17	17.58	N	OFF	19.5
0.177000	---	33.05	54.63	21.58	N	OFF	19.5
0.177000	48.19	---	64.63	16.44	N	OFF	19.5
0.494250	---	24.81	46.10	21.29	N	OFF	19.5
0.494250	29.22	---	56.10	26.88	N	OFF	19.5
0.559500	---	27.75	46.00	18.25	N	OFF	19.5
0.559500	32.40	---	56.00	23.60	N	OFF	19.5
2.206500	---	29.44	46.00	16.56	N	OFF	19.4
2.206500	35.43	---	56.00	20.57	N	OFF	19.4
9.874500	---	30.00	50.00	20.00	N	OFF	19.7
9.874500	34.29	---	60.00	25.71	N	OFF	19.7

Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Chuan Zhu, and Ken Wu	Temperature :	22~25°C
		Relative Humidity :	52~57%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5637	51.38	-16.82	68.2	42.52	32.35	9.61	33.1	200	341	P	H
		5692	61.22	-38.08	99.3	52.15	32.44	9.75	33.12	200	341	P	H
		5720	74.7	-36.1	110.8	65.52	32.5	9.81	33.13	200	341	P	H
		5724	81.39	-38.53	119.92	72.21	32.5	9.81	33.13	200	341	P	H
	*	5745	113.49	-	-	104.23	32.53	9.88	33.15	200	341	P	H
	*	5745	105.17	-	-	95.91	32.53	9.88	33.15	200	341	A	H
		5613.25	52.03	-16.17	68.2	43.27	32.29	9.55	33.08	296	38	P	V
		5699.25	63.53	-41.12	104.65	54.46	32.44	9.75	33.12	296	38	P	V
		5719.25	75.42	-35.17	110.59	66.24	32.5	9.81	33.13	296	38	P	V
		5724.75	80.21	-41.42	121.63	71.03	32.5	9.81	33.13	296	38	P	V
	*	5745	112.77	-	-	103.51	32.53	9.88	33.15	296	38	P	V
	*	5745	104.5	-	-	95.24	32.53	9.88	33.15	296	38	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5630	50.92	-17.28	68.2	42.09	32.32	9.61	33.1	206	341	P	H
		5697.25	54	-49.17	103.17	44.93	32.44	9.75	33.12	206	341	P	H
		5716.75	56.18	-53.71	109.89	47.03	32.47	9.81	33.13	206	341	P	H
		5724.75	56.6	-65.03	121.63	47.42	32.5	9.81	33.13	206	341	P	H
	*	5785	114.21	-	-	104.77	32.6	10.01	33.17	206	341	P	H
	*	5785	106.44	-	-	97	32.6	10.01	33.17	206	341	A	H
		5851.75	57.75	-60.46	118.21	48.2	32.72	10.02	33.19	206	341	P	H
		5870.25	54.8	-51.73	106.53	45.24	32.75	10.02	33.21	206	341	P	H
		5898.25	51.61	-36.35	87.96	42	32.81	10.02	33.22	206	341	P	H
		5939.25	50.05	-18.15	68.2	40.36	32.91	10.02	33.24	206	341	P	H
		5646	49.51	-18.69	68.2	40.65	32.35	9.61	33.1	201	127	P	V
		5694.5	50.97	-50.18	101.15	41.9	32.44	9.75	33.12	201	127	P	V
		5716.5	54.1	-55.72	109.82	44.95	32.47	9.81	33.13	201	127	P	V
		5724.25	54.68	-65.81	120.49	45.5	32.5	9.81	33.13	201	127	P	V
	*	5785	112.19	-	-	102.75	32.6	10.01	33.17	201	127	P	V
	*	5785	104.52	-	-	95.08	32.6	10.01	33.17	201	127	A	V
		5850.25	54.07	-67.56	121.63	44.52	32.72	10.02	33.19	201	127	P	V
		5855	53.16	-57.64	110.8	43.58	32.75	10.02	33.19	201	127	P	V
		5908	51.62	-29.12	80.74	41.98	32.84	10.02	33.22	201	127	P	V
		5927.25	50.89	-17.31	68.2	41.22	32.88	10.02	33.23	201	127	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	111.69	-	-	102.16	32.69	10.02	33.18	180	360	P	H
	*	5825	103.98	-	-	94.45	32.69	10.02	33.18	180	360	A	H
		5850.6	73.16	-47.67	120.83	63.61	32.72	10.02	33.19	180	360	P	H
		5859.4	70.24	-39.33	109.57	60.68	32.75	10.02	33.21	180	360	P	H
		5877.4	59.8	-43.62	103.42	50.21	32.78	10.02	33.21	180	360	P	H
		5930.4	49.39	-18.81	68.2	39.72	32.88	10.02	33.23	180	360	P	H
	*	5825	111.74	-	-	102.21	32.69	10.02	33.18	220	113	P	V
	*	5825	103.91	-	-	94.38	32.69	10.02	33.18	220	113	A	V
		5852	73.45	-44.19	117.64	63.9	32.72	10.02	33.19	220	113	P	V
		5855.6	72.35	-38.28	110.63	62.77	32.75	10.02	33.19	220	113	P	V
		5877.6	59.55	-43.72	103.27	49.96	32.78	10.02	33.21	220	113	P	V
		5930.6	50.66	-17.54	68.2	40.99	32.88	10.02	33.23	220	113	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5314	55.1	-13.1	68.2	47.05	31.92	9.16	33.03	200	341	P	H
		5530	52.84	-15.36	68.2	44.35	32.13	9.41	33.05	200	341	P	H
		5950	55.62	-12.58	68.2	45.93	32.91	10.02	33.24	200	341	P	H
		6172	53.66	-14.54	68.2	43.23	33.5	10.25	33.32	200	341	P	H
		11490	48.3	-25.7	74	48.99	40	15.72	56.41	100	0	P	H
		17235	58.63	-9.57	68.2	54.76	40.54	19.6	56.27	100	341	P	H
		5320	54.04	-14.16	68.2	45.98	31.92	9.17	33.03	296	38	P	V
		5530	53.77	-14.43	68.2	45.28	32.13	9.41	33.05	296	38	P	V
		5956	53.34	-14.86	68.2	43.62	32.94	10.02	33.24	296	38	P	V
		6178	52.87	-15.33	68.2	42.39	33.55	10.25	33.32	296	38	P	V
		11490	49.6	-24.4	74	50.29	40	15.72	56.41	100	0	P	V
		17235	56.73	-11.47	68.2	52.86	40.54	19.6	56.27	100	325	P	V
802.11a CH 157 5785MHz		5308	52.07	-16.13	68.2	44.04	31.9	9.16	33.03	206	341	P	H
		5476	51.78	-16.42	68.2	43.4	32.07	9.33	33.02	206	341	P	H
		5554	52.22	-15.98	68.2	43.65	32.19	9.44	33.06	206	341	P	H
		6028	53.02	-15.18	68.2	43.14	33.1	10.06	33.28	206	341	P	H
		11570	49.49	-24.51	74	50.26	39.86	15.77	56.4	100	0	P	H
		17355	58.47	-9.73	68.2	54.29	40.96	19.68	56.46	100	340	P	H
		5548	50.28	-17.92	68.2	41.73	32.19	9.41	33.05	201	127	P	V
		6022	53.04	-15.16	68.2	43.21	33.05	10.06	33.28	201	127	P	V
		6256	53.27	-14.93	68.2	42.56	33.75	10.31	33.35	201	127	P	V
		11570	47.93	-26.07	74	48.7	39.86	15.77	56.4	100	0	P	V
		17355	55.74	-12.46	68.2	51.56	40.96	19.68	56.46	100	324	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		5344	51.66	-16.54	68.2	43.55	31.95	9.19	33.03	180	360	P	H
		5590	51.11	-17.09	68.2	42.44	32.26	9.48	33.07	180	360	P	H
		5956	52.13	-16.07	68.2	42.41	32.94	10.02	33.24	180	360	P	H
		6070	51.79	-16.41	68.2	41.76	33.2	10.12	33.29	180	360	P	H
		11650	48.59	-25.41	74	49.43	39.72	15.84	56.4	100	0	P	H
		17475	60.19	-8.01	68.2	55.71	41.38	19.75	56.65	167	10	P	H
		5590	50.83	-17.37	68.2	42.16	32.26	9.48	33.07	220	113	P	V
		6046	51.66	-16.54	68.2	41.7	33.15	10.09	33.28	220	113	P	V
		11650	47.3	-26.7	74	48.14	39.72	15.84	56.4	100	0	P	V
		17475	57.13	-11.07	68.2	52.65	41.38	19.75	56.65	100	318	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5636.8	51.47	-16.73	68.2	42.61	32.35	9.61	33.1	210	341	P	H
		5698.2	64.08	-39.79	103.87	55.01	32.44	9.75	33.12	210	341	P	H
		5719.6	75.4	-35.29	110.69	66.22	32.5	9.81	33.13	210	341	P	H
		5724.8	81.28	-40.46	121.74	72.1	32.5	9.81	33.13	210	341	P	H
	*	5745	113.4	-	-	104.14	32.53	9.88	33.15	210	341	P	H
	*	5745	105.55	-	-	96.29	32.53	9.88	33.15	210	341	A	H
		5639.2	51	-17.2	68.2	42.14	32.35	9.61	33.1	202	127	P	V
		5699.2	62.26	-42.35	104.61	53.19	32.44	9.75	33.12	202	127	P	V
		5720	73.54	-37.26	110.8	64.36	32.5	9.81	33.13	202	127	P	V
		5724.6	78.52	-42.77	121.29	69.34	32.5	9.81	33.13	202	127	P	V
	*	5745	112.39	-	-	103.13	32.53	9.88	33.15	202	127	P	V
	*	5745	104.57	-	-	95.31	32.53	9.88	33.15	202	127	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5632.5	49.65	-18.55	68.2	40.82	32.32	9.61	33.1	201	341	P	H
		5698	51.83	-51.9	103.73	42.76	32.44	9.75	33.12	201	341	P	H
		5712.25	55.49	-53.14	108.63	46.34	32.47	9.81	33.13	201	341	P	H
		5721	55.77	-57.31	113.08	46.59	32.5	9.81	33.13	201	341	P	H
	*	5785	113.42	-	-	103.98	32.6	10.01	33.17	201	341	P	H
	*	5785	105.39	-	-	95.95	32.6	10.01	33.17	201	341	A	H
		5850.5	58.23	-62.83	121.06	48.68	32.72	10.02	33.19	201	341	P	H
		5858.5	55.06	-54.76	109.82	45.5	32.75	10.02	33.21	201	341	P	H
		5899	52.41	-34.99	87.4	42.8	32.81	10.02	33.22	201	341	P	H
		5925.5	50.81	-17.39	68.2	41.14	32.88	10.02	33.23	201	341	P	H
		5629.25	48.86	-19.34	68.2	40.03	32.32	9.61	33.1	196	129	P	V
		5697.75	51.85	-51.69	103.54	42.78	32.44	9.75	33.12	196	129	P	V
		5719	53.87	-56.65	110.52	44.69	32.5	9.81	33.13	196	129	P	V
		5725	56.74	-65.46	122.2	47.56	32.5	9.81	33.13	196	129	P	V
	*	5785	111.74	-	-	102.3	32.6	10.01	33.17	196	129	P	V
	*	5785	104.17	-	-	94.73	32.6	10.01	33.17	196	129	A	V
		5850.5	54.66	-66.4	121.06	45.11	32.72	10.02	33.19	196	129	P	V
		5860.5	52.89	-56.37	109.26	43.33	32.75	10.02	33.21	196	129	P	V
		5906.25	51.05	-30.99	82.04	41.41	32.84	10.02	33.22	196	129	P	V
		5945.75	51	-17.2	68.2	41.31	32.91	10.02	33.24	196	129	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)	Path 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	113.12	-	-	103.59	32.69	10.02	33.18	212	343	P	H
	*	5825	105.38	-	-	95.85	32.69	10.02	33.18	212	343	A	H
		5854.2	75.9	-36.72	112.62	66.32	32.75	10.02	33.19	212	343	P	H
		5855	75.41	-35.39	110.8	65.83	32.75	10.02	33.19	212	343	P	H
		5875	61.58	-43.62	105.2	51.99	32.78	10.02	33.21	212	343	P	H
		5940.2	50.8	-17.4	68.2	41.11	32.91	10.02	33.24	212	343	P	H
	*	5825	111.52	-	-	101.99	32.69	10.02	33.18	209	128	P	V
	*	5825	103.59	-	-	94.06	32.69	10.02	33.18	209	128	A	V
		5852.4	75.16	-41.57	116.73	65.61	32.72	10.02	33.19	209	128	P	V
		5855.4	71.87	-38.82	110.69	62.29	32.75	10.02	33.19	209	128	P	V
		5875.2	62.39	-42.66	105.05	52.8	32.78	10.02	33.21	209	128	P	V
		5926.6	50.02	-18.18	68.2	40.35	32.88	10.02	33.23	209	128	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5320	54.94	-13.26	68.2	46.88	31.92	9.17	33.03	210	341	P	H
		5542	52.19	-16.01	68.2	43.67	32.16	9.41	33.05	210	341	P	H
		5956	54.65	-13.55	68.2	44.93	32.94	10.02	33.24	210	341	P	H
		11490	47.61	-26.39	74	48.3	40	15.72	56.41	100	0	P	H
		17235	57.33	-10.87	68.2	53.46	40.54	19.6	56.27	100	341	P	H
		5962	54.44	-13.76	68.2	44.74	32.94	10.02	33.26	202	127	P	V
		6166	53.19	-15.01	68.2	42.79	33.5	10.22	33.32	202	127	P	V
		11490	47.92	-26.08	74	48.61	40	15.72	56.41	100	0	P	V
		17235	55.77	-12.43	68.2	51.9	40.54	19.6	56.27	100	326	P	V
802.11n HT20 CH 157 5785MHz		5908	54.01	-14.19	68.2	44.37	32.84	10.02	33.22	201	341	P	H
		11570	47.4	-26.6	74	48.17	39.86	15.77	56.4	100	0	P	H
		17355	57.36	-10.84	68.2	53.18	40.96	19.68	56.46	100	8	P	H
		6028	53.83	-14.37	68.2	43.95	33.1	10.06	33.28	196	129	P	V
		11570	49.2	-24.8	74	49.97	39.86	15.77	56.4	100	0	P	V
		17355	55.95	-12.25	68.2	51.77	40.96	19.68	56.46	112	316	P	V
802.11n HT20 CH 165 5825MHz		11650	49.34	-24.66	74	50.18	39.72	15.84	56.4	100	0	P	H
		17475	58.4	-9.8	68.2	53.92	41.38	19.75	56.65	100	9	P	H
		6058	52.61	-15.59	68.2	42.6	33.2	10.09	33.28	209	128	P	V
		11650	47.68	-26.32	74	48.52	39.72	15.84	56.4	100	0	P	V
		17475	55.18	-13.02	68.2	50.7	41.38	19.75	56.65	100	324	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5643.25	60.92	-7.28	68.2	52.06	32.35	9.61	33.1	303	327	P	H
		5699.75	74.5	-30.52	105.02	65.43	32.44	9.75	33.12	303	327	P	H
		5717.5	89.2	-20.9	110.1	80.02	32.5	9.81	33.13	303	327	P	H
		5724	87.14	-32.78	119.92	77.96	32.5	9.81	33.13	303	327	P	H
	*	5755	112.46	-	-	103.16	32.57	9.88	33.15	303	327	P	H
	*	5755	103.97	-	-	94.67	32.57	9.88	33.15	303	327	A	H
		5851	63.9	-56.02	119.92	54.35	32.72	10.02	33.19	303	327	P	H
		5855	63.55	-47.25	110.8	53.97	32.75	10.02	33.19	303	327	P	H
		5875.75	58.51	-46.13	104.64	48.92	32.78	10.02	33.21	303	327	P	H
		5930.5	52.67	-15.53	68.2	43	32.88	10.02	33.23	303	327	P	H
		5649.5	58.43	-9.77	68.2	49.54	32.38	9.61	33.1	208	127	P	V
		5699.5	72.65	-32.18	104.83	63.58	32.44	9.75	33.12	208	127	P	V
		5713.5	84.16	-24.82	108.98	75.01	32.47	9.81	33.13	208	127	P	V
		5724.5	86.08	-34.98	121.06	76.9	32.5	9.81	33.13	208	127	P	V
	*	5755	111.02	-	-	101.72	32.57	9.88	33.15	208	127	P	V
	*	5755	102.41	-	-	93.11	32.57	9.88	33.15	208	127	A	V
		5852.5	62.75	-53.75	116.5	53.2	32.72	10.02	33.19	208	127	P	V
		5860	61.56	-47.84	109.4	52	32.75	10.02	33.21	208	127	P	V
		5878	57.93	-45.04	102.97	48.34	32.78	10.02	33.21	208	127	P	V
		5943.25	51.89	-16.31	68.2	42.2	32.91	10.02	33.24	208	127	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5638.25	56.77	-11.43	68.2	47.91	32.35	9.61	33.1	313	326	P	H
		5698.25	65.53	-38.38	103.91	56.46	32.44	9.75	33.12	313	326	P	H
		5718.75	68.83	-41.62	110.45	59.65	32.5	9.81	33.13	313	326	P	H
		5725	74.2	-48	122.2	65.02	32.5	9.81	33.13	313	326	P	H
	*	5795	113.32	-	-	103.85	32.63	10.01	33.17	313	326	P	H
	*	5795	104.46	-	-	94.99	32.63	10.01	33.17	313	326	A	H
		5852	76.69	-40.95	117.64	67.14	32.72	10.02	33.19	313	326	P	H
		5856.75	76.05	-34.26	110.31	66.47	32.75	10.02	33.19	313	326	P	H
		5881.25	69.51	-31.05	100.56	59.92	32.78	10.02	33.21	313	326	P	H
		5936	60.73	-7.47	68.2	51.07	32.88	10.02	33.24	313	326	P	H
		5644.75	54.43	-13.77	68.2	45.57	32.35	9.61	33.1	200	124	P	V
		5698.5	61.49	-42.6	104.09	52.42	32.44	9.75	33.12	200	124	P	V
		5718	68.29	-41.95	110.24	59.11	32.5	9.81	33.13	200	124	P	V
		5720.5	70.92	-41.02	111.94	61.74	32.5	9.81	33.13	200	124	P	V
	*	5795	111.7	-	-	102.23	32.63	10.01	33.17	200	124	P	V
	*	5795	102.97	-	-	93.5	32.63	10.01	33.17	200	124	A	V
		5850.75	77.75	-42.74	120.49	68.2	32.72	10.02	33.19	200	124	P	V
		5855.75	74.99	-35.6	110.59	65.41	32.75	10.02	33.19	200	124	P	V
		5875.75	68.15	-36.49	104.64	58.56	32.78	10.02	33.21	200	124	P	V
		5926	58.56	-9.64	68.2	48.89	32.88	10.02	33.23	200	124	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5344	52.97	-15.23	68.2	44.86	31.95	9.19	33.03	303	327	P	H
		6196	53.65	-14.55	68.2	43.13	33.6	10.25	33.33	303	327	P	H
		11510	48.27	-25.73	74	48.94	40	15.73	56.4	100	0	P	H
		17265	56.1	-12.1	68.2	52.15	40.66	19.62	56.33	100	342	P	H
		11510	48.02	-25.98	74	48.69	40	15.73	56.4	100	0	P	V
		17265	54.37	-13.83	68.2	50.42	40.66	19.62	56.33	294	326	P	V
802.11n HT40 CH 159 5795MHz		11590	47.88	-26.12	74	48.66	39.83	15.79	56.4	100	0	P	H
		17385	56.52	-11.68	68.2	52.26	41.08	19.69	56.51	100	8	P	H
		11590	47.6	-26.4	74	48.38	39.83	15.79	56.4	100	0	P	V
		17385	54.87	-13.33	68.2	50.61	41.08	19.69	56.51	322	322	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5644	65.76	-2.44	68.2	56.9	32.35	9.61	33.1	313	326	P	H
		5694.25	78.31	-22.65	100.96	69.24	32.44	9.75	33.12	313	326	P	H
		5714.25	81.3	-27.89	109.19	72.15	32.47	9.81	33.13	313	326	P	H
		5722	82.39	-32.97	115.36	73.21	32.5	9.81	33.13	313	326	P	H
	*	5775	108.14	-	-	98.75	32.6	9.95	33.16	313	326	P	H
	*	5775	100.72	-	-	91.33	32.6	9.95	33.16	313	326	A	H
		5854	80.78	-32.3	113.08	71.2	32.75	10.02	33.19	313	326	P	H
		5867.25	80.83	-26.54	107.37	71.27	32.75	10.02	33.21	313	326	P	H
		5876	76.08	-28.38	104.46	66.49	32.78	10.02	33.21	313	326	P	H
		5929.75	65.2	-3	68.2	55.53	32.88	10.02	33.23	313	326	P	H
		5647	66.4	-1.8	68.2	57.54	32.35	9.61	33.1	100	326	P	V
		5700	78.77	-26.43	105.2	69.7	32.44	9.75	33.12	100	326	P	V
		5715.25	80.33	-29.14	109.47	71.18	32.47	9.81	33.13	100	326	P	V
		5724.5	82.05	-39.01	121.06	72.87	32.5	9.81	33.13	100	326	P	V
	*	5775	106.79	-	-	97.4	32.6	9.95	33.16	100	326	P	V
	*	5775	99.25	-	-	89.86	32.6	9.95	33.16	100	326	A	V
		5852.25	77.61	-39.46	117.07	68.06	32.72	10.02	33.19	100	326	P	V
		5858	76.55	-33.41	109.96	66.99	32.75	10.02	33.21	100	326	P	V
		5881.75	70.74	-29.45	100.19	61.15	32.78	10.02	33.21	100	326	P	V
		5930.25	61.64	-6.56	68.2	51.97	32.88	10.02	33.23	100	326	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11550	48.89	-25.11	74	49.63	39.9	15.76	56.4	100	0	P	H
VHT80		17325	49.5	-18.7	68.2	45.41	40.84	19.66	56.41	100	0	P	H
CH 155		11550	47.04	-26.96	74	47.78	39.9	15.76	56.4	100	0	P	V
5775MHz		17325	48.73	-19.47	68.2	44.64	40.84	19.66	56.41	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 Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11ac VHT80 LF		100.2	28.61	-14.89	43.5	43.87	15.81	1.41	32.48	-	-	P	H
		129.36	26.98	-16.52	43.5	40.53	17.34	1.56	32.45	-	-	P	H
		214.95	28.23	-15.27	43.5	43.8	15.04	1.78	32.39	-	-	P	H
		407.1	26.99	-19.01	46	34.63	22	2.69	32.33	-	-	P	H
		661.9	28.28	-17.72	46	31.2	26.24	3.31	32.47	-	-	P	H
		930	32.41	-13.59	46	30.11	29.69	3.99	31.38	100	0	P	H
		46.74	36.66	-3.34	40	52.41	15.72	1.02	32.49	100	0	P	V
		55.92	30.18	-9.82	40	49.54	12.1	1.03	32.49	-	-	P	V
		88.32	29.58	-13.92	43.5	46.52	14.3	1.24	32.48	-	-	P	V
		417.6	26.18	-19.82	46	33.41	22.43	2.68	32.34	-	-	P	V
		537.3	28.12	-17.88	46	33.49	23.98	3.06	32.41	-	-	P	V
		844.6	31.82	-14.18	46	31.37	28.65	3.75	31.95	-	-	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 Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5606.8	49.73	-18.47	68.2	40.97	32.29	9.55	33.08	224	68	P	H
		5698.6	57.99	-46.18	104.17	48.92	32.44	9.75	33.12	224	68	P	H
		5717.8	73.39	-36.79	110.18	64.21	32.5	9.81	33.13	224	68	P	H
		5723.2	78.62	-39.48	118.1	69.44	32.5	9.81	33.13	224	68	P	H
	*	5745	110.15	-	-	100.89	32.53	9.88	33.15	224	68	P	H
	*	5745	102.31	-	-	93.05	32.53	9.88	33.15	224	68	A	H
		5630.4	51.77	-16.43	68.2	42.94	32.32	9.61	33.1	100	57	P	V
		5692.8	62.83	-37.06	99.89	53.76	32.44	9.75	33.12	100	57	P	V
		5720	77.64	-33.16	110.8	68.46	32.5	9.81	33.13	100	57	P	V
		5723.8	77.85	-41.61	119.46	68.67	32.5	9.81	33.13	100	57	P	V
	*	5745	111.44	-	-	102.18	32.53	9.88	33.15	100	57	P	V
	*	5745	103.69	-	-	94.43	32.53	9.88	33.15	100	57	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5618	50.87	-17.33	68.2	42.08	32.32	9.55	33.08	212	67	P	H
		5690.25	50.65	-47.36	98.01	41.58	32.44	9.75	33.12	212	67	P	H
		5709.5	52.43	-55.43	107.86	43.28	32.47	9.81	33.13	212	67	P	H
		5724.75	54.55	-67.08	121.63	45.37	32.5	9.81	33.13	212	67	P	H
	*	5785	111.26	-	-	101.82	32.6	10.01	33.17	212	67	P	H
	*	5785	103.59	-	-	94.15	32.6	10.01	33.17	212	67	A	H
		5850.25	57.27	-64.36	121.63	47.72	32.72	10.02	33.19	212	67	P	H
		5862.25	54.63	-54.14	108.77	45.07	32.75	10.02	33.21	212	67	P	H
		5895.75	51.63	-38.18	89.81	42.02	32.81	10.02	33.22	212	67	P	H
		5944.25	51.6	-16.6	68.2	41.91	32.91	10.02	33.24	212	67	P	H
		5627	53.45	-14.75	68.2	44.6	32.32	9.61	33.08	100	59	P	V
		5690	50.62	-47.21	97.83	41.55	32.44	9.75	33.12	100	59	P	V
		5718	54.25	-55.99	110.24	45.07	32.5	9.81	33.13	100	59	P	V
		5724.75	55.02	-66.61	121.63	45.84	32.5	9.81	33.13	100	59	P	V
	*	5785	110.37	-	-	100.93	32.6	10.01	33.17	100	59	P	V
	*	5785	102.62	-	-	93.18	32.6	10.01	33.17	100	59	A	V
		5850	53.71	-68.49	122.2	44.16	32.72	10.02	33.19	100	59	P	V
		5858.75	51.99	-57.76	109.75	42.43	32.75	10.02	33.21	100	59	P	V
		5915.75	50.11	-24.91	75.02	40.48	32.84	10.02	33.23	100	59	P	V
		5926	50.71	-17.49	68.2	41.04	32.88	10.02	33.23	100	59	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	111.73	-	-	102.2	32.69	10.02	33.18	214	67	P	H
	*	5825	104	-	-	94.47	32.69	10.02	33.18	214	67	A	H
		5851.2	73.48	-45.98	119.46	63.93	32.72	10.02	33.19	214	67	P	H
		5855.4	71.88	-38.81	110.69	62.3	32.75	10.02	33.19	214	67	P	H
		5875.6	59.5	-45.25	104.75	49.91	32.78	10.02	33.21	214	67	P	H
		5931.4	51.22	-16.98	68.2	41.55	32.88	10.02	33.23	214	67	P	H
	*	5825	109.66	-	-	100.13	32.69	10.02	33.18	103	59	P	V
	*	5825	101.98	-	-	92.45	32.69	10.02	33.18	103	59	A	V
		5851.4	72.93	-46.08	119.01	63.38	32.72	10.02	33.19	103	59	P	V
		5855.2	69.29	-41.45	110.74	59.71	32.75	10.02	33.19	103	59	P	V
		5875.2	57.22	-47.83	105.05	47.63	32.78	10.02	33.21	103	59	P	V
		5943.2	50.87	-17.33	68.2	41.18	32.91	10.02	33.24	103	59	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5956	52.82	-15.38	68.2	43.1	32.94	10.02	33.24	224	68	P	H
		6166	53.94	-14.26	68.2	43.54	33.5	10.22	33.32	224	68	P	H
		11490	55.96	-18.04	74	56.65	40	15.72	56.41	199	306	P	H
		11490	44.98	-9.02	54	45.67	40	15.72	56.41	199	306	A	H
		17235	47.93	-20.27	68.2	44.06	40.54	19.6	56.27	100	0	P	H
		5320	52.16	-16.04	68.2	44.1	31.92	9.17	33.03	100	57	P	V
		5578	52.91	-15.29	68.2	44.28	32.22	9.48	33.07	100	57	P	V
		11490	58.29	-15.71	74	58.98	40	15.72	56.41	229	13	P	V
		11490	47.35	-6.65	54	48.04	40	15.72	56.41	229	13	A	V
		17235	48.13	-20.07	68.2	44.26	40.54	19.6	56.27	100	0	P	V
802.11a CH 157 5785MHz		11570	56.32	-17.68	74	57.05	39.9	15.77	56.4	100	93	P	H
		11570	44.77	-9.23	54	45.5	39.9	15.77	56.4	122	347	A	H
		17355	48.42	-19.78	68.2	44.24	40.96	19.68	56.46	100	0	P	H
		5620	52.25	-15.95	68.2	43.46	32.32	9.55	33.08	100	59	P	V
		6004	52.73	-15.47	68.2	42.97	33	10.03	33.27	100	59	P	V
		11570	56.36	-17.64	74	57.09	39.9	15.77	56.4	122	347	P	V
		11570	44.92	-9.08	54	45.65	39.9	15.77	56.4	122	347	A	V
		17355	50.26	-17.94	68.2	46.08	40.96	19.68	56.46	100	0	P	V
802.11a CH 165 5825MHz		5662	51.88	-16.32	68.2	42.93	32.38	9.68	33.11	214	67	P	H
		11650	59.5	-14.5	74	60.34	39.72	15.84	56.4	183	308	P	H
		11650	48.17	-5.83	54	49.01	39.72	15.84	56.4	183	308	A	H
		17475	48.72	-19.48	68.2	44.24	41.38	19.75	56.65	100	0	P	H
		5344	51	-17.2	68.2	42.89	31.95	9.19	33.03	103	59	P	V
		5662	54.46	-13.74	68.2	45.51	32.38	9.68	33.11	103	59	P	V
		11650	60.66	-13.34	74	61.5	39.72	15.84	56.4	190	18	P	V
		11650	49.23	-4.77	54	50.07	39.72	15.84	56.4	190	18	A	V
		17475	48.69	-19.51	68.2	44.21	41.38	19.75	56.65	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5604.4	50.68	-17.52	68.2	41.92	32.29	9.55	33.08	315	335	P	H
		5692	61.35	-37.95	99.3	52.28	32.44	9.75	33.12	315	335	P	H
		5720	73.15	-37.65	110.8	63.97	32.5	9.81	33.13	315	335	P	H
		5724.4	78.52	-42.31	120.83	69.34	32.5	9.81	33.13	315	335	P	H
	*	5745	110.47	-	-	101.21	32.53	9.88	33.15	315	335	P	H
	*	5745	102.16	-	-	92.9	32.53	9.88	33.15	315	335	A	H
		5647.2	49.41	-18.79	68.2	40.55	32.35	9.61	33.1	303	332	P	V
		5700	57.5	-47.7	105.2	48.43	32.44	9.75	33.12	303	332	P	V
		5716	66.25	-43.43	109.68	57.1	32.47	9.81	33.13	303	332	P	V
		5723.8	71.01	-48.45	119.46	61.83	32.5	9.81	33.13	303	332	P	V
	*	5745	104.04	-	-	94.78	32.53	9.88	33.15	303	332	P	V
	*	5745	96.2	-	-	86.94	32.53	9.88	33.15	303	332	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5632.25	48.84	-19.36	68.2	40.01	32.32	9.61	33.1	319	332	P	H
		5693	49.78	-50.26	100.04	40.71	32.44	9.75	33.12	319	332	P	H
		5716.5	50.07	-59.75	109.82	40.92	32.47	9.81	33.13	319	332	P	H
		5724.75	50.82	-70.81	121.63	41.64	32.5	9.81	33.13	319	332	P	H
	*	5785	107.74	-	-	98.3	32.6	10.01	33.17	319	332	P	H
	*	5785	99.88	-	-	90.44	32.6	10.01	33.17	319	332	A	H
		5851.25	53.15	-66.2	119.35	43.6	32.72	10.02	33.19	319	332	P	H
		5866	52.47	-55.25	107.72	42.91	32.75	10.02	33.21	319	332	P	H
		5878.25	50.18	-52.61	102.79	40.59	32.78	10.02	33.21	319	332	P	H
		5928.75	49.22	-18.98	68.2	39.55	32.88	10.02	33.23	319	332	P	H
		5620.75	50.21	-17.99	68.2	41.42	32.32	9.55	33.08	297	291	P	V
		5683.25	50.18	-42.66	92.84	41.14	32.41	9.75	33.12	297	291	P	V
		5719.5	52.06	-58.6	110.66	42.88	32.5	9.81	33.13	297	291	P	V
		5721.5	50.24	-63.98	114.22	41.06	32.5	9.81	33.13	297	291	P	V
	*	5785	108.89	-	-	99.45	32.6	10.01	33.17	297	291	P	V
	*	5785	107.08	-	-	97.64	32.6	10.01	33.17	297	291	A	V
		5851.75	51.35	-66.86	118.21	41.8	32.72	10.02	33.19	297	291	P	V
		5858.5	50.74	-59.08	109.82	41.18	32.75	10.02	33.21	297	291	P	V
		5891.25	50.4	-42.74	93.14	40.79	32.81	10.02	33.22	297	291	P	V
		5938.5	48.67	-19.53	68.2	39.01	32.88	10.02	33.24	297	291	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)	Path 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	107.47	-	-	97.94	32.69	10.02	33.18	322	331	P	H
	*	5825	99.59	-	-	90.06	32.69	10.02	33.18	322	331	A	H
		5850.8	69.16	-51.22	120.38	59.61	32.72	10.02	33.19	322	331	P	H
		5860	65.98	-43.42	109.4	56.42	32.75	10.02	33.21	322	331	P	H
		5880	56.67	-44.82	101.49	47.08	32.78	10.02	33.21	322	331	P	H
		5932.6	49.55	-18.65	68.2	39.88	32.88	10.02	33.23	322	331	P	H
	*	5825	108.2	-	-	98.67	32.69	10.02	33.18	297	292	P	V
	*	5825	100.4	-	-	90.87	32.69	10.02	33.18	297	292	A	V
		5850	68.01	-54.19	122.2	58.46	32.72	10.02	33.19	297	292	P	V
		5858.2	65.05	-44.85	109.9	55.49	32.75	10.02	33.21	297	292	P	V
		5878.4	57.3	-45.37	102.67	47.71	32.78	10.02	33.21	297	292	P	V
		5930.4	49.59	-18.61	68.2	39.92	32.88	10.02	33.23	297	292	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5314	51.01	-17.19	68.2	42.96	31.92	9.16	33.03	315	335	P	H
		5476	50.58	-17.62	68.2	42.2	32.07	9.33	33.02	315	335	P	H
		5584	51.34	-16.86	68.2	42.67	32.26	9.48	33.07	315	335	P	H
		5962	52.51	-15.69	68.2	42.81	32.94	10.02	33.26	315	335	P	H
		11490	54.89	-19.11	74	55.58	40	15.72	56.41	198	306	P	H
		11490	44.32	-9.68	54	45.01	40	15.72	56.41	198	306	A	H
		17235	47.72	-20.48	68.2	43.85	40.54	19.6	56.27	100	0	P	H
		5320	51.98	-16.22	68.2	43.92	31.92	9.17	33.03	303	332	P	V
		5578	52.57	-15.63	68.2	43.94	32.22	9.48	33.07	303	332	P	V
		5908	51.72	-16.48	68.2	42.08	32.84	10.02	33.22	303	332	P	V
		11490	56.8	-17.2	74	57.49	40	15.72	56.41	397	298	P	V
		11490	45.39	-8.61	54	46.08	40	15.72	56.41	397	298	A	V
		17235	48.4	-19.8	68.2	44.53	40.54	19.6	56.27	100	0	P	V
802.11n HT20 CH 157 5785MHz		5494	50.87	-17.33	68.2	42.48	32.08	9.33	33.02	319	332	P	H
		5938	52.45	-15.75	68.2	42.79	32.88	10.02	33.24	319	332	P	H
		6052	51.66	-16.54	68.2	41.7	33.15	10.09	33.28	319	332	P	H
		11570	55.51	-18.49	74	56.24	39.9	15.77	56.4	100	94	P	H
		11570	45.11	-8.89	54	45.84	39.9	15.77	56.4	100	94	A	H
		17355	47.66	-20.54	68.2	43.48	40.96	19.68	56.46	100	0	P	H
		5950	51.74	-16.46	68.2	42.05	32.91	10.02	33.24	297	291	P	V
		11570	55.59	-18.41	74	56.32	39.9	15.77	56.4	113	349	P	V
		11570	44.63	-9.37	54	45.36	39.9	15.77	56.4	113	349	A	V
		17355	48.12	-20.08	68.2	43.94	40.96	19.68	56.46	100	0	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz		11650	58.18	-15.82	74	59.02	39.72	15.84	56.4	179	307	P	H
		11650	47.62	-6.38	54	48.46	39.72	15.84	56.4	179	307	A	H
		17475	49.07	-19.13	68.2	44.59	41.38	19.75	56.65	100	0	P	H
		5212	51.68	-16.52	68.2	43.78	31.82	9.11	33.03	297	292	P	V
		5662	51.76	-16.44	68.2	42.81	32.38	9.68	33.11	297	292	P	V
		11650	59.84	-14.16	74	60.68	39.72	15.84	56.4	183	17	P	V
		11650	49.3	-4.7	54	50.14	39.72	15.84	56.4	183	17	A	V
		17475	49.36	-18.84	68.2	44.88	41.38	19.75	56.65	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5642.5	50.64	-17.56	68.2	41.78	32.35	9.61	33.1	314	330	P	H
		5699	65.35	-39.11	104.46	56.28	32.44	9.75	33.12	314	330	P	H
		5719.25	77.09	-33.5	110.59	67.91	32.5	9.81	33.13	314	330	P	H
		5724.25	77.14	-43.35	120.49	67.96	32.5	9.81	33.13	314	330	P	H
	*	5755	106.23	-	-	96.93	32.57	9.88	33.15	314	330	P	H
	*	5755	97.63	-	-	88.33	32.57	9.88	33.15	314	330	A	H
		5850	58.92	-63.28	122.2	49.37	32.72	10.02	33.19	314	330	P	H
		5855.25	56.81	-53.92	110.73	47.23	32.75	10.02	33.19	314	330	P	H
		5878.25	57.39	-45.4	102.79	47.8	32.78	10.02	33.21	314	330	P	H
		5938.25	49.48	-18.72	68.2	39.82	32.88	10.02	33.24	314	330	P	H
		5644.5	53.97	-14.23	68.2	45.11	32.35	9.61	33.1	300	290	P	V
		5697.25	65.28	-37.89	103.17	56.21	32.44	9.75	33.12	300	290	P	V
		5716.75	79.03	-30.86	109.89	69.88	32.47	9.81	33.13	300	290	P	V
		5723.25	79.44	-38.77	118.21	70.26	32.5	9.81	33.13	300	290	P	V
	*	5755	107.22	-	-	97.92	32.57	9.88	33.15	300	290	P	V
	*	5755	99.24	-	-	89.94	32.57	9.88	33.15	300	290	A	V
		5855	59.71	-51.09	110.8	50.13	32.75	10.02	33.19	300	290	P	V
		5861	60.06	-49.06	109.12	50.5	32.75	10.02	33.21	300	290	P	V
		5888.5	56.25	-38.93	95.18	46.64	32.81	10.02	33.22	300	290	P	V
		5938.75	51.52	-16.68	68.2	41.83	32.91	10.02	33.24	300	290	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)	Path 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	49.85	-18.35	68.2	41.02	32.32	9.61	33.1	330	327	P	H
		5696.5	55.9	-46.72	102.62	46.83	32.44	9.75	33.12	330	327	P	H
		5719.75	60.37	-50.36	110.73	51.19	32.5	9.81	33.13	330	327	P	H
		5722.75	62.03	-55.04	117.07	52.85	32.5	9.81	33.13	330	327	P	H
	*	5795	106.76	-	-	97.29	32.63	10.01	33.17	330	327	P	H
	*	5795	99.21	-	-	89.74	32.63	10.01	33.17	330	327	A	H
		5850.75	69.89	-50.6	120.49	60.34	32.72	10.02	33.19	330	327	P	H
		5856.5	67.5	-42.88	110.38	57.92	32.75	10.02	33.19	330	327	P	H
		5883	64.25	-35.01	99.26	54.66	32.78	10.02	33.21	330	327	P	H
		5936.5	54.63	-13.57	68.2	44.97	32.88	10.02	33.24	330	327	P	H
		5619.5	49.41	-18.79	68.2	40.62	32.32	9.55	33.08	307	294	P	V
		5695.75	57.77	-44.3	102.07	48.7	32.44	9.75	33.12	307	294	P	V
		5717.5	62.49	-47.61	110.1	53.31	32.5	9.81	33.13	307	294	P	V
		5725	61.6	-60.6	122.2	52.42	32.5	9.81	33.13	307	294	P	V
	*	5795	107.68	-	-	98.21	32.63	10.01	33.17	307	294	P	V
	*	5795	100.48	-	-	91.01	32.63	10.01	33.17	307	294	A	V
		5850	66.58	-55.62	122.2	57.03	32.72	10.02	33.19	307	294	P	V
		5866	66.41	-41.31	107.72	56.85	32.75	10.02	33.21	307	294	P	V
		5876.75	61.68	-42.22	103.9	52.09	32.78	10.02	33.21	307	294	P	V
		5925.25	54.49	-13.71	68.2	44.82	32.88	10.02	33.23	307	294	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	53.82	-20.18	74	54.49	40	15.73	56.4	200	307	P	H
		11510	43.68	-10.32	54	44.35	40	15.73	56.4	200	307	A	H
		17265	48.42	-19.78	68.2	44.47	40.66	19.62	56.33	100	0	P	H
		6118	53.34	-14.86	68.2	43.15	33.35	10.15	33.31	300	290	P	V
		11510	53.88	-20.12	74	54.55	40	15.73	56.4	386	295	P	V
		11510	43.72	-10.28	54	44.39	40	15.73	56.4	386	295	A	V
		17265	48.01	-20.19	68.2	44.06	40.66	19.62	56.33	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	54.66	-19.34	74	55.44	39.83	15.79	56.4	100	93	P	H
		11590	44.04	-9.96	54	44.82	39.83	15.79	56.4	100	93	A	H
		17385	48.08	-20.12	68.2	43.82	41.08	19.69	56.51	100	0	P	H
		11590	54.34	-19.66	74	55.12	39.83	15.79	56.4	104	349	P	V
		11590	44.18	-9.82	54	44.96	39.83	15.79	56.4	104	349	A	V
		17385	48.45	-19.75	68.2	44.19	41.08	19.69	56.51	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5644.25	63.58	-4.62	68.2	54.72	32.35	9.61	33.1	212	68	P	H
		5696.25	74.44	-28	102.44	65.37	32.44	9.75	33.12	212	68	P	H
		5716	77.55	-32.13	109.68	68.4	32.47	9.81	33.13	212	68	P	H
		5724.25	80.41	-40.08	120.49	71.23	32.5	9.81	33.13	212	68	P	H
	*	5775	107.06	-	-	97.67	32.6	9.95	33.16	212	68	P	H
	*	5775	99.42	-	-	90.03	32.6	9.95	33.16	212	68	A	H
		5850	79.26	-42.94	122.2	69.71	32.72	10.02	33.19	212	68	P	H
		5857.25	80.52	-29.65	110.17	70.94	32.75	10.02	33.19	212	68	P	H
		5876.25	75.03	-29.24	104.27	65.44	32.78	10.02	33.21	212	68	P	H
		5926	65.25	-2.95	68.2	55.58	32.88	10.02	33.23	212	68	P	H
		5647.75	66.3	-1.9	68.2	57.44	32.35	9.61	33.1	199	343	P	V
		5693.5	75.78	-24.63	100.41	66.71	32.44	9.75	33.12	199	343	P	V
		5719.75	78.22	-32.51	110.73	69.04	32.5	9.81	33.13	199	343	P	V
		5724	77.4	-42.52	119.92	68.22	32.5	9.81	33.13	199	343	P	V
	*	5775	106.4	-	-	97.01	32.6	9.95	33.16	199	343	P	V
	*	5775	99.09	-	-	89.7	32.6	9.95	33.16	199	343	A	V
		5850	80.18	-42.02	122.2	70.63	32.72	10.02	33.19	199	343	P	V
		5856.25	78.55	-31.9	110.45	68.97	32.75	10.02	33.19	199	343	P	V
		5875.5	72.11	-32.72	104.83	62.52	32.78	10.02	33.21	199	343	P	V
		5925.5	64.02	-4.18	68.2	54.35	32.88	10.02	33.23	199	343	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	53.77	-20.23	74	54.51	39.9	15.76	56.4	194	306	P	H
		11550	46.26	-7.74	54	47	39.9	15.76	56.4	194	306	A	H
		17325	48.34	-19.86	68.2	44.25	40.84	19.66	56.41	100	0	P	H
		11550	52.75	-21.25	74	53.49	39.9	15.76	56.4	374	296	P	V
		11550	44.7	-9.3	54	45.44	39.9	15.76	56.4	374	296	A	V
		17325	48.79	-19.41	68.2	44.7	40.84	19.66	56.41	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 Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11ac VHT80 LF		46.47	24.23	-15.77	40	39.98	15.72	1.02	32.49	-	-	P	H
		101.82	31.19	-12.31	43.5	46.28	15.98	1.41	32.48	100	0	P	H
		214.95	26.76	-16.74	43.5	42.33	15.04	1.78	32.39	-	-	P	H
		411.3	27.47	-18.53	46	34.97	22.15	2.69	32.34	-	-	P	H
		560.4	28.1	-17.9	46	31.42	26.04	3.07	32.43	-	-	P	H
		892.2	32.42	-13.58	46	31.21	29.02	3.89	31.7	-	-	P	H
		46.47	35.66	-4.34	40	51.41	15.72	1.02	32.49	100	0	P	V
		120.72	31.69	-11.81	43.5	45.41	17.31	1.43	32.46	-	-	P	V
		194.16	25.22	-18.28	43.5	41.19	14.67	1.76	32.4	-	-	P	V
		428.8	25.9	-20.1	46	32.93	22.63	2.68	32.34	-	-	P	V
		748.7	29.28	-16.72	46	30.24	27.8	3.57	32.33	-	-	P	V
		885.9	32.48	-13.52	46	31.25	29.07	3.89	31.73	-	-	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 Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5642.6	52.32	-15.88	68.2	43.46	32.35	9.61	33.1	266	329	P	H
		5697.2	66.23	-36.91	103.14	57.16	32.44	9.75	33.12	266	329	P	H
		5718	77	-33.24	110.24	67.82	32.5	9.81	33.13	266	329	P	H
		5725	83.49	-38.71	122.2	74.31	32.5	9.81	33.13	266	329	P	H
	*	5745	116.94	-	-	107.68	32.53	9.88	33.15	266	329	P	H
	*	5745	109.34	-	-	100.08	32.53	9.88	33.15	266	329	A	H
		5649.8	51.61	-16.59	68.2	42.72	32.38	9.61	33.1	100	323	P	V
		5700	65.02	-40.18	105.2	55.95	32.44	9.75	33.12	100	323	P	V
		5717	79.07	-30.89	109.96	69.92	32.47	9.81	33.13	100	323	P	V
		5725	80.77	-41.43	122.2	71.59	32.5	9.81	33.13	100	323	P	V
	*	5745	116.45	-	-	107.19	32.53	9.88	33.15	100	323	P	V
	*	5745	108.68	-	-	99.42	32.53	9.88	33.15	100	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5633.75	49.77	-18.43	68.2	40.91	32.35	9.61	33.1	262	331	P	H
		5697	53.5	-49.49	102.99	44.43	32.44	9.75	33.12	262	331	P	H
		5719.5	56.01	-54.65	110.66	46.83	32.5	9.81	33.13	262	331	P	H
		5722.25	58.77	-57.16	115.93	49.59	32.5	9.81	33.13	262	331	P	H
	*	5785	117.33	-	-	107.89	32.6	10.01	33.17	262	331	P	H
	*	5785	109.48	-	-	100.04	32.6	10.01	33.17	262	331	A	H
		5850.75	57.2	-63.29	120.49	47.65	32.72	10.02	33.19	262	331	P	H
		5866	59.42	-48.3	107.72	49.86	32.75	10.02	33.21	262	331	P	H
		5909	52.79	-27.22	80.01	43.16	32.84	10.02	33.23	262	331	P	H
		5937.5	50.9	-17.3	68.2	41.24	32.88	10.02	33.24	262	331	P	H
		5626	51.5	-16.7	68.2	42.71	32.32	9.55	33.08	122	325	P	V
		5697.75	53	-50.54	103.54	43.93	32.44	9.75	33.12	122	325	P	V
		5718.25	56.32	-53.99	110.31	47.14	32.5	9.81	33.13	122	325	P	V
		5724.25	57.65	-62.84	120.49	48.47	32.5	9.81	33.13	122	325	P	V
	*	5785	115.76	-	-	106.32	32.6	10.01	33.17	122	325	P	V
	*	5785	108.11	-	-	98.67	32.6	10.01	33.17	122	325	A	V
		5855	54.79	-56.01	110.8	45.21	32.75	10.02	33.19	122	325	P	V
		5855	54.79	-56.01	110.8	45.21	32.75	10.02	33.19	122	325	P	V
		5879.75	50.69	-50.98	101.67	41.1	32.78	10.02	33.21	122	325	P	V
		5938.5	51.09	-17.11	68.2	41.43	32.88	10.02	33.24	122	325	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	116.48	-	-	106.95	32.69	10.02	33.18	266	332	P	H
	*	5825	108.75	-	-	99.22	32.69	10.02	33.18	266	332	A	H
		5850	75.71	-46.49	122.2	66.16	32.72	10.02	33.19	266	332	P	H
		5857.6	73.78	-36.29	110.07	64.2	32.75	10.02	33.19	266	332	P	H
		5876.2	66.07	-38.24	104.31	56.48	32.78	10.02	33.21	266	332	P	H
		5949.4	52.22	-15.98	68.2	42.53	32.91	10.02	33.24	266	332	P	H
	*	5825	115.13	-	-	105.6	32.69	10.02	33.18	122	325	P	V
	*	5825	107.54	-	-	98.01	32.69	10.02	33.18	122	325	A	V
		5850.2	73.79	-47.95	121.74	64.24	32.72	10.02	33.19	122	325	P	V
		5856	72.46	-38.06	110.52	62.88	32.75	10.02	33.19	122	325	P	V
		5875.6	62.09	-42.66	104.75	52.5	32.78	10.02	33.21	122	325	P	V
		5939.8	52.14	-16.06	68.2	42.45	32.91	10.02	33.24	122	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 802.11a (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5320	54.99	-13.21	68.2	46.93	31.92	9.17	33.03	266	329	P	H
		5956	59.31	-8.89	68.2	49.59	32.94	10.02	33.24	266	329	P	H
		6172	58.55	-9.65	68.2	48.12	33.5	10.25	33.32	266	329	P	H
		11490	58.97	-15.03	74	59.66	40	15.72	56.41	300	332	P	H
		11490	49.75	-4.25	54	50.44	40	15.72	56.41	300	332	A	H
		17235	53.67	-14.53	68.2	49.8	40.54	19.6	56.27	100	0	P	H
		5326	54.85	-13.35	68.2	46.79	31.92	9.17	33.03	100	323	P	V
		5542	54.67	-13.53	68.2	46.15	32.16	9.41	33.05	100	323	P	V
		5590	53.9	-14.3	68.2	45.23	32.26	9.48	33.07	100	323	P	V
		5962	56.11	-12.09	68.2	46.41	32.94	10.02	33.26	100	323	P	V
		6172	56.33	-11.87	68.2	45.9	33.5	10.25	33.32	100	323	P	V
		11490	58.09	-15.91	74	58.78	40	15.72	56.41	100	98	P	V
		11490	48.88	-5.12	54	49.57	40	15.72	56.41	100	98	A	V
		17235	53.25	-14.95	68.2	49.38	40.54	19.6	56.27	100	0	P	V
802.11a CH 157 5785MHz		5302	50.74	-17.46	68.2	42.71	31.9	9.16	33.03	262	331	P	H
		6034	55.66	-12.54	68.2	45.78	33.1	10.06	33.28	262	331	P	H
		11570	58.32	-15.68	74	59.09	39.86	15.77	56.4	311	15	P	H
		11570	48.74	-5.26	54	49.51	39.86	15.77	56.4	311	15	A	H
		17355	54.25	-13.95	68.2	50.07	40.96	19.68	56.46	100	0	P	H
		5302	51.81	-16.39	68.2	43.78	31.9	9.16	33.03	122	325	P	V
		5542	54.8	-13.4	68.2	46.28	32.16	9.41	33.05	122	325	P	V
		5950	52.84	-15.36	68.2	43.15	32.91	10.02	33.24	122	325	P	V
		6034	53.57	-14.63	68.2	43.69	33.1	10.06	33.28	122	325	P	V
		11570	58.54	-15.46	74	59.31	39.86	15.77	56.4	205	31	P	V
		11570	48.82	-5.18	54	49.59	39.86	15.77	56.4	205	31	A	V
		17355	50.29	-17.91	68.2	46.11	40.96	19.68	56.46	100	0	P	V

802.11a CH 165 5825MHz		5332	50.89	-17.31	68.2	42.82	31.93	9.17	33.03	266	332	P	H
		5668	54.07	-14.13	68.2	45.09	32.41	9.68	33.11	266	332	P	H
		6070	56.65	-11.55	68.2	46.62	33.2	10.12	33.29	266	332	P	H
		11650	58.26	-15.74	74	59.1	39.72	15.84	56.4	300	12	P	H
		11650	48.83	-5.17	54	49.67	39.72	15.84	56.4	300	12	A	H
		17475	54.65	-13.55	68.2	50.17	41.38	19.75	56.65	100	0	P	H
		5338	51.79	-16.41	68.2	43.72	31.93	9.17	33.03	122	325	P	V
		5506	51.63	-16.57	68.2	43.19	32.1	9.37	33.03	122	325	P	V
		5584	52.21	-15.99	68.2	43.54	32.26	9.48	33.07	122	325	P	V
		5668	53	-15.2	68.2	44.02	32.41	9.68	33.11	122	325	P	V
		6064	53.33	-14.87	68.2	43.33	33.2	10.09	33.29	122	325	P	V
		11650	59.75	-14.25	74	60.59	39.72	15.84	56.4	186	20	P	V
		11650	50.11	-3.89	54	50.95	39.72	15.84	56.4	186	20	A	V
		17475	53.46	-14.74	68.2	48.98	41.38	19.75	56.65	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5645.4	53.77	-14.43	68.2	44.91	32.35	9.61	33.1	243	333	P	H
		5699.6	66.8	-38.11	104.91	57.73	32.44	9.75	33.12	243	333	P	H
		5718.2	79.08	-31.22	110.3	69.9	32.5	9.81	33.13	243	333	P	H
		5725	84.16	-38.04	122.2	74.98	32.5	9.81	33.13	243	333	P	H
	*	5745	115.53	-	-	106.27	32.53	9.88	33.15	243	333	P	H
	*	5745	108.24	-	-	98.98	32.53	9.88	33.15	243	333	A	H
		5635	51.38	-16.82	68.2	42.52	32.35	9.61	33.1	100	325	P	V
		5698.4	67.85	-36.17	104.02	58.78	32.44	9.75	33.12	100	325	P	V
		5715.4	76	-33.51	109.51	66.85	32.47	9.81	33.13	100	325	P	V
		5724.2	81.94	-38.44	120.38	72.76	32.5	9.81	33.13	100	325	P	V
	*	5745	115.69	-	-	106.43	32.53	9.88	33.15	100	325	P	V
	*	5745	107.68	-	-	98.42	32.53	9.88	33.15	100	325	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5630.75	49.61	-18.59	68.2	40.78	32.32	9.61	33.1	262	328	P	H
		5698.75	53.08	-51.2	104.28	44.01	32.44	9.75	33.12	262	328	P	H
		5713	58.81	-50.03	108.84	49.66	32.47	9.81	33.13	262	328	P	H
		5720.5	56.71	-55.23	111.94	47.53	32.5	9.81	33.13	262	328	P	H
	*	5785	115.41	-	-	105.97	32.6	10.01	33.17	262	328	P	H
	*	5785	108.11	-	-	98.67	32.6	10.01	33.17	262	328	A	H
		5850.25	56.95	-64.68	121.63	47.4	32.72	10.02	33.19	262	328	P	H
		5863	56.18	-52.38	108.56	46.62	32.75	10.02	33.21	262	328	P	H
		5881	51.78	-48.96	100.74	42.19	32.78	10.02	33.21	262	328	P	H
		5937.5	51.07	-17.13	68.2	41.41	32.88	10.02	33.24	262	328	P	H
		5628.75	50.83	-17.37	68.2	42	32.32	9.61	33.1	103	323	P	V
		5694.75	53.31	-48.02	101.33	44.24	32.44	9.75	33.12	103	323	P	V
		5718.75	55.12	-55.33	110.45	45.94	32.5	9.81	33.13	103	323	P	V
		5724.5	56.91	-64.15	121.06	47.73	32.5	9.81	33.13	103	323	P	V
	*	5785	114.52	-	-	105.08	32.6	10.01	33.17	103	323	P	V
	*	5785	107.36	-	-	97.92	32.6	10.01	33.17	103	323	A	V
		5851	58.86	-61.06	119.92	49.31	32.72	10.02	33.19	103	323	P	V
		5855.25	57.07	-53.66	110.73	47.49	32.75	10.02	33.19	103	323	P	V
		5875	51.24	-53.96	105.2	41.65	32.78	10.02	33.21	103	323	P	V
		5948.5	50.63	-17.57	68.2	40.94	32.91	10.02	33.24	103	323	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)	Path 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	115.51	-	-	105.98	32.69	10.02	33.18	268	331	P	H
	*	5825	107.93	-	-	98.4	32.69	10.02	33.18	268	331	A	H
		5850.6	78.25	-42.58	120.83	68.7	32.72	10.02	33.19	268	331	P	H
		5858.2	74.62	-35.28	109.9	65.06	32.75	10.02	33.21	268	331	P	H
		5878.8	63.43	-38.95	102.38	53.84	32.78	10.02	33.21	268	331	P	H
		5940.4	52.53	-15.67	68.2	42.84	32.91	10.02	33.24	268	331	P	H
	*	5825	113.62	-	-	104.09	32.69	10.02	33.18	100	323	P	V
	*	5825	108.48	-	-	98.95	32.69	10.02	33.18	100	323	A	V
		5851.2	77.27	-42.19	119.46	67.72	32.72	10.02	33.19	100	323	P	V
		5860.6	73.21	-36.02	109.23	63.65	32.75	10.02	33.21	100	323	P	V
		5875	61.98	-43.22	105.2	52.39	32.78	10.02	33.21	100	323	P	V
		5938.6	51.25	-16.95	68.2	41.56	32.91	10.02	33.24	100	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 802.11n 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5314	55.23	-12.97	68.2	47.18	31.92	9.16	33.03	243	333	P	H
		5536	53.46	-14.74	68.2	44.94	32.16	9.41	33.05	243	333	P	H
		5962	56.75	-11.45	68.2	47.05	32.94	10.02	33.26	243	333	P	H
		6166	58.84	-9.36	68.2	48.44	33.5	10.22	33.32	243	333	P	H
		11490	56.72	-17.28	74	57.41	40	15.72	56.41	376	17	P	H
		11490	47.5	-6.5	54	48.19	40	15.72	56.41	376	17	A	H
		17235	53.68	-14.52	68.2	49.81	40.54	19.6	56.27	100	0	P	H
		5326	54.75	-13.45	68.2	46.69	31.92	9.17	33.03	100	325	P	V
		5542	53.24	-14.96	68.2	44.72	32.16	9.41	33.05	100	325	P	V
		5590	53.75	-14.45	68.2	45.08	32.26	9.48	33.07	100	325	P	V
		5950	56.43	-11.77	68.2	46.74	32.91	10.02	33.24	100	325	P	V
		6166	55.14	-13.06	68.2	44.74	33.5	10.22	33.32	100	325	P	V
		11490	58.91	-15.09	74	59.6	40	15.72	56.41	218	14	P	V
		11490	48.98	-5.02	54	49.67	40	15.72	56.41	218	14	A	V
		17235	51.3	-16.9	68.2	47.43	40.54	19.6	56.27	100	0	P	V
802.11n HT20 CH 157 5785MHz		5956	53.78	-14.42	68.2	44.06	32.94	10.02	33.24	262	328	P	H
		6016	56.38	-11.82	68.2	46.58	33.05	10.03	33.28	262	328	P	H
		11570	57.64	-16.36	74	58.41	39.86	15.77	56.4	309	14	P	H
		11570	48.54	-5.46	54	49.31	39.86	15.77	56.4	309	14	A	H
		17355	52.06	-16.14	68.2	47.88	40.96	19.68	56.46	100	0	P	H
		5554	51.71	-16.49	68.2	43.14	32.19	9.44	33.06	103	323	P	V
		5632	53.03	-15.17	68.2	44.2	32.32	9.61	33.1	103	323	P	V
		6022	54.12	-14.08	68.2	44.29	33.05	10.06	33.28	103	323	P	V
		11570	57.77	-16.23	74	58.54	39.86	15.77	56.4	200	26	P	V
		11570	48.65	-5.35	54	49.42	39.86	15.77	56.4	200	26	A	V
		17355	51.43	-16.77	68.2	47.25	40.96	19.68	56.46	100	0	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz		5338	52.28	-15.92	68.2	44.21	31.93	9.17	33.03	268	331	P	H
		5698	55.2	-13	68.2	46.13	32.44	9.75	33.12	268	331	P	H
		6076	56.23	-11.97	68.2	46.15	33.25	10.12	33.29	268	331	P	H
		11650	57.93	-16.07	74	58.77	39.72	15.84	56.4	369	13	P	H
		11650	48.73	-5.27	54	49.57	39.72	15.84	56.4	369	13	A	H
		17475	53.94	-14.26	68.2	49.46	41.38	19.75	56.65	100	0	P	H
		5350	52.45	-21.55	74	44.34	31.95	9.19	33.03	100	323	P	V
		5350	43.59	-10.41	54	35.48	31.95	9.19	33.03	100	323	A	V
		5590	52.63	-15.57	68.2	43.96	32.26	9.48	33.07	100	323	P	V
		6070	54.4	-13.8	68.2	44.37	33.2	10.12	33.29	100	323	P	V
		11650	58.77	-15.23	74	59.61	39.72	15.84	56.4	200	17	P	V
		11650	49.46	-4.54	54	50.3	39.72	15.84	56.4	200	17	A	V
		17475	50.95	-17.25	68.2	46.47	41.38	19.75	56.65	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5643.5	60.34	-7.86	68.2	51.48	32.35	9.61	33.1	263	329	P	H
		5699	75.96	-28.5	104.46	66.89	32.44	9.75	33.12	263	329	P	H
		5719.75	89.83	-20.9	110.73	80.65	32.5	9.81	33.13	263	329	P	H
		5720	88.4	-22.4	110.8	79.22	32.5	9.81	33.13	263	329	P	H
	*	5755	114.54	-	-	105.24	32.57	9.88	33.15	263	329	P	H
	*	5755	106.49	-	-	97.19	32.57	9.88	33.15	263	329	A	H
		5850.25	68.67	-52.96	121.63	59.12	32.72	10.02	33.19	263	329	P	H
		5867.75	66.98	-40.25	107.23	57.42	32.75	10.02	33.21	263	329	P	H
		5875	62.13	-43.07	105.2	52.54	32.78	10.02	33.21	263	329	P	H
		5931	56.47	-11.73	68.2	46.8	32.88	10.02	33.23	263	329	P	H
		5645.75	62.24	-5.96	68.2	53.38	32.35	9.61	33.1	114	324	P	V
		5691.75	76.14	-22.98	99.12	67.07	32.44	9.75	33.12	114	324	P	V
		5717.25	87.92	-22.11	110.03	78.77	32.47	9.81	33.13	114	324	P	V
		5721.25	90.06	-23.59	113.65	80.88	32.5	9.81	33.13	114	324	P	V
	*	5755	113.67	-	-	104.37	32.57	9.88	33.15	114	324	P	V
	*	5755	105.84	-	-	96.54	32.57	9.88	33.15	114	324	A	V
		5851.25	66.55	-52.8	119.35	57	32.72	10.02	33.19	114	324	P	V
		5858	64.16	-45.8	109.96	54.6	32.75	10.02	33.21	114	324	P	V
		5881.25	60.78	-39.78	100.56	51.19	32.78	10.02	33.21	114	324	P	V
		5946.25	52.65	-15.55	68.2	42.96	32.91	10.02	33.24	114	324	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5645	56.6	-11.6	68.2	47.74	32.35	9.61	33.1	268	333	P	H
		5698.25	63.58	-40.33	103.91	54.51	32.44	9.75	33.12	268	333	P	H
		5717.5	71.55	-38.55	110.1	62.37	32.5	9.81	33.13	268	333	P	H
		5722.25	70.81	-45.12	115.93	61.63	32.5	9.81	33.13	268	333	P	H
	*	5795	113.66	-	-	104.19	32.63	10.01	33.17	268	333	P	H
	*	5795	106.65	-	-	97.18	32.63	10.01	33.17	268	333	A	H
		5850.5	78.57	-42.49	121.06	69.02	32.72	10.02	33.19	268	333	P	H
		5857.5	76.9	-33.2	110.1	67.32	32.75	10.02	33.19	268	333	P	H
		5876	70.57	-33.89	104.46	60.98	32.78	10.02	33.21	268	333	P	H
		5930.75	60.68	-7.52	68.2	51.01	32.88	10.02	33.23	268	333	P	H
		5648.25	51.27	-16.93	68.2	42.41	32.35	9.61	33.1	110	0	P	V
		5692.75	60.33	-39.53	99.86	51.26	32.44	9.75	33.12	110	0	P	V
		5717.75	66.62	-43.55	110.17	57.44	32.5	9.81	33.13	110	0	P	V
		5723.25	69.96	-48.25	118.21	60.78	32.5	9.81	33.13	110	0	P	V
	*	5795	113.53	-	-	104.06	32.63	10.01	33.17	110	0	P	V
	*	5795	105.92	-	-	96.45	32.63	10.01	33.17	110	0	A	V
		5850.5	76.38	-44.68	121.06	66.83	32.72	10.02	33.19	110	0	P	V
		5862.25	74.89	-33.88	108.77	65.33	32.75	10.02	33.21	110	0	P	V
		5878	68.11	-34.86	102.97	58.52	32.78	10.02	33.21	110	0	P	V
		5930	56.44	-11.76	68.2	46.77	32.88	10.02	33.23	110	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5338	52.87	-15.33	68.2	44.8	31.93	9.17	33.03	263	329	P	H
		5566	52.46	-15.74	68.2	43.86	32.22	9.44	33.06	263	329	P	H
		6178	54.99	-13.21	68.2	44.51	33.55	10.25	33.32	263	329	P	H
		11510	55.42	-18.58	74	56.09	40	15.73	56.4	365	15	P	H
		11510	46.84	-7.16	54	47.51	40	15.73	56.4	365	15	A	H
		17265	52.1	-16.1	68.2	48.15	40.66	19.62	56.33	100	0	P	H
		5344	52.55	-15.65	68.2	44.44	31.95	9.19	33.03	114	324	P	V
		6190	52.76	-15.44	68.2	42.29	33.55	10.25	33.33	114	324	P	V
		11510	56.15	-17.85	74	56.82	40	15.73	56.4	200	16	P	V
		11510	47.61	-6.39	54	48.28	40	15.73	56.4	200	16	A	V
		17265	51.27	-16.93	68.2	47.32	40.66	19.62	56.33	100	0	P	V
802.11n HT40 CH 159 5795MHz		11590	57.46	-16.54	74	58.24	39.83	15.79	56.4	389	13	P	H
		11590	48.71	-5.29	54	49.49	39.83	15.79	56.4	389	13	A	H
		17385	51.08	-17.12	68.2	46.82	41.08	19.69	56.51	100	0	P	H
		11590	56.76	-17.24	74	57.54	39.83	15.79	56.4	200	21	P	V
		11590	47.8	-6.2	54	48.58	39.83	15.79	56.4	200	21	A	V
		17385	51.27	-16.93	68.2	47.01	41.08	19.69	56.51	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5646.75	67.48	-0.72	68.2	58.62	32.35	9.61	33.1	271	330	P	H
		5699.25	80.39	-24.26	104.65	71.32	32.44	9.75	33.12	271	330	P	H
		5705.75	82.76	-24.05	106.81	73.61	32.47	9.81	33.13	271	330	P	H
		5723.5	83.15	-35.63	118.78	73.97	32.5	9.81	33.13	271	330	P	H
	*	5775	109.69	-	-	100.3	32.6	9.95	33.16	271	330	P	H
	*	5775	103.56	-	-	94.17	32.6	9.95	33.16	271	330	A	H
		5851.75	82.02	-36.19	118.21	72.47	32.72	10.02	33.19	271	330	P	H
		5865.5	79.54	-28.32	107.86	69.98	32.75	10.02	33.21	271	330	P	H
		5876	75.76	-28.7	104.46	66.17	32.78	10.02	33.21	271	330	P	H
		5932.25	65.99	-2.21	68.2	56.32	32.88	10.02	33.23	271	330	P	H
		5647	66.15	-2.05	68.2	57.29	32.35	9.61	33.1	130	0	P	V
		5698.5	77.69	-26.4	104.09	68.62	32.44	9.75	33.12	130	0	P	V
		5719.75	82.69	-28.04	110.73	73.51	32.5	9.81	33.13	130	0	P	V
		5723.25	81.12	-37.09	118.21	71.94	32.5	9.81	33.13	130	0	P	V
	*	5775	109.61	-	-	100.22	32.6	9.95	33.16	130	0	P	V
	*	5775	102.48	-	-	93.09	32.6	9.95	33.16	130	0	A	V
		5850.75	79.14	-41.35	120.49	69.59	32.72	10.02	33.19	130	0	P	V
		5857.5	78.47	-31.63	110.1	68.89	32.75	10.02	33.19	130	0	P	V
		5880	70.27	-31.22	101.49	60.68	32.78	10.02	33.21	130	0	P	V
		5934.75	63.09	-5.11	68.2	53.43	32.88	10.02	33.24	130	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	53.74	-20.26	74	54.48	39.9	15.76	56.4	390	17	P	H
		11550	46.65	-7.35	54	47.39	39.9	15.76	56.4	390	17	A	H
		17325	48.81	-19.39	68.2	44.72	40.84	19.66	56.41	100	0	P	H
		11550	49.84	-24.16	74	50.58	39.9	15.76	56.4	100	0	P	V
		17325	47.49	-20.71	68.2	43.4	40.84	19.66	56.41	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 Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		103.17	32.07	-11.43	43.5	47.08	16.06	1.41	32.48	100	0	P	H
		132.06	26.92	-16.58	43.5	40.53	17.28	1.56	32.45	-	-	P	H
		214.95	26.72	-16.78	43.5	42.29	15.04	1.78	32.39	-	-	P	H
		408.5	27.59	-18.41	46	35.19	22.04	2.69	32.33	-	-	P	H
		562.5	27.94	-18.06	46	31.27	25.98	3.12	32.43	-	-	P	H
		877.5	31.93	-14.07	46	30.72	29.1	3.89	31.78	-	-	P	H
		46.47	36.37	-3.63	40	52.12	15.72	1.02	32.49	100	0	P	V
		73.2	31.5	-8.5	40	50.4	12.35	1.24	32.49	-	-	P	V
		102.36	30.96	-12.54	43.5	45.97	16.06	1.41	32.48	-	-	P	V
		445.6	26.04	-19.96	46	32.77	22.88	2.74	32.35	-	-	P	V
		644.4	27.78	-18.22	46	30.61	26.32	3.31	32.46	-	-	P	V
		888.7	32.9	-13.1	46	31.68	29.05	3.89	31.72	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

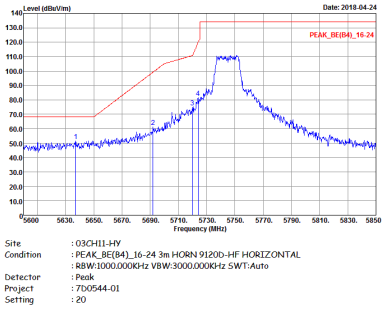
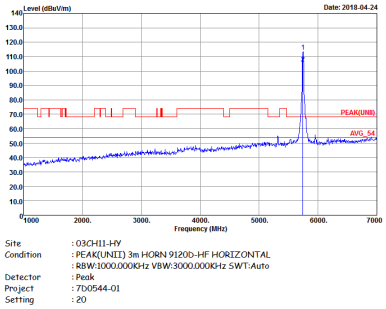
Test Engineer :	Hao Hsu, Chuan Zhu, and Ken Wu	Temperature :	22~25°C
		Relative Humidity :	52~57%

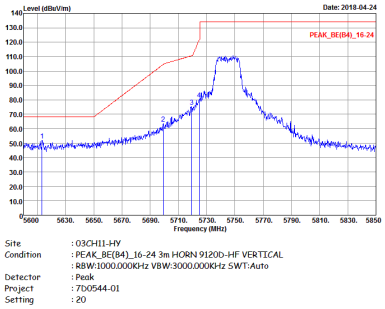
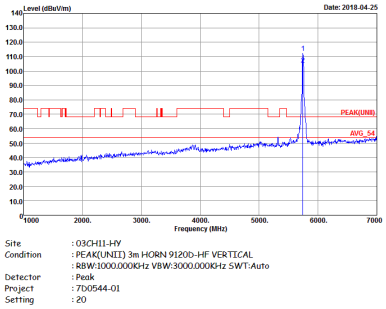
Note symbol

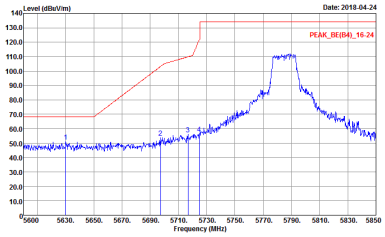
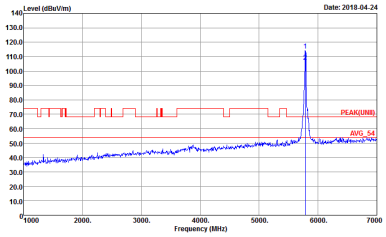
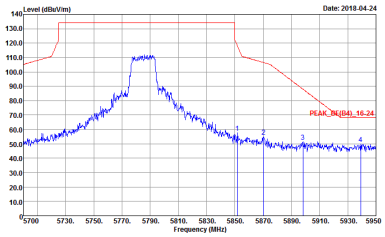
-L	**Low channel location**
-R	**High channel location**

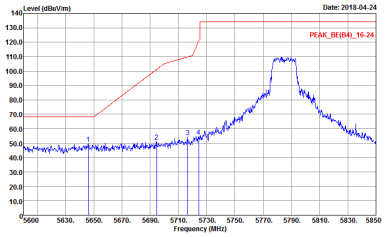
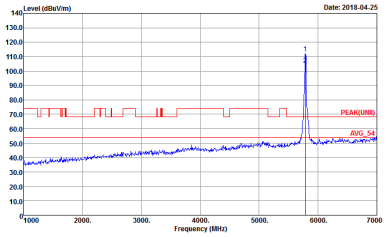
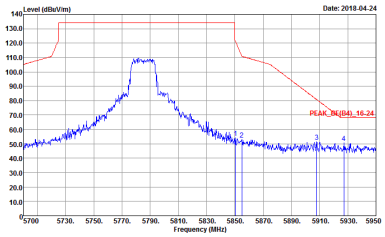
Band 4 - 5725~5850MHz

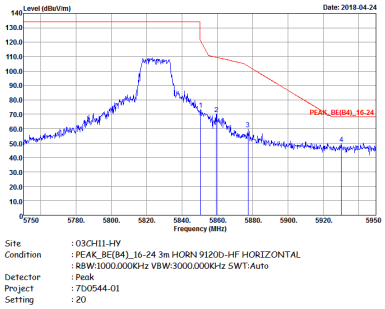
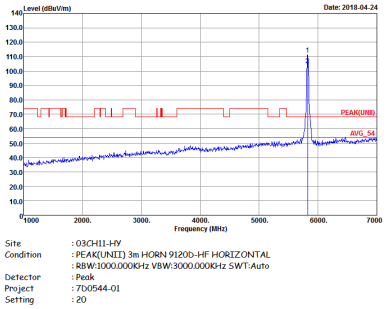
WIFI 802.11a (Band Edge @ 3m)

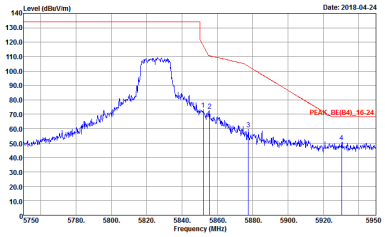
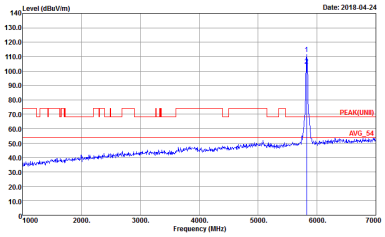
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

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	 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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

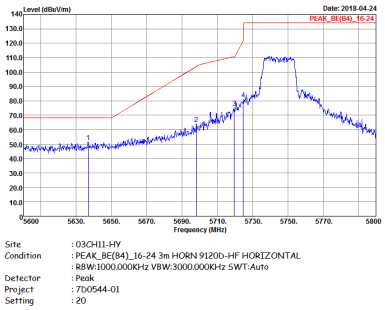
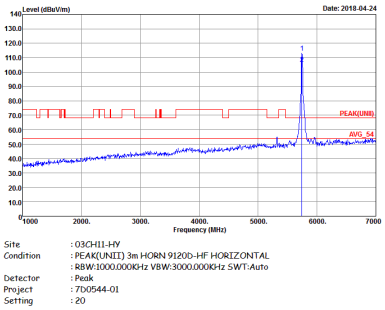
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

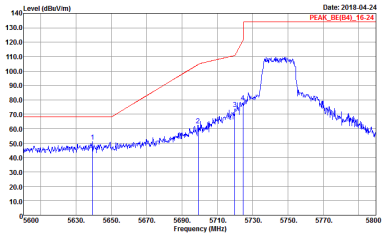
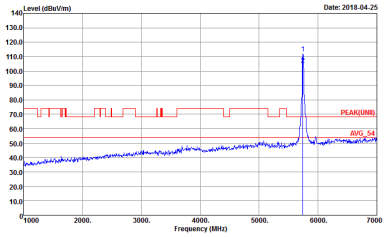
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

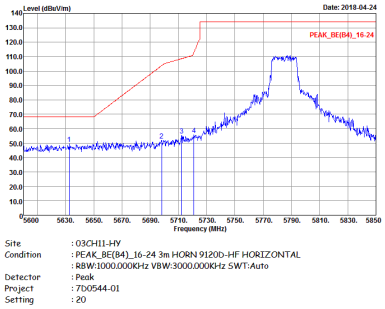
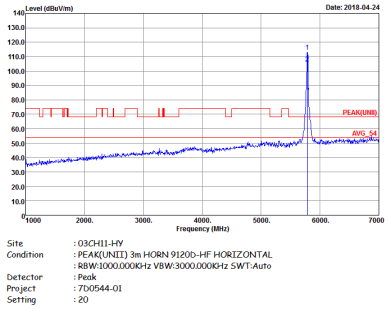
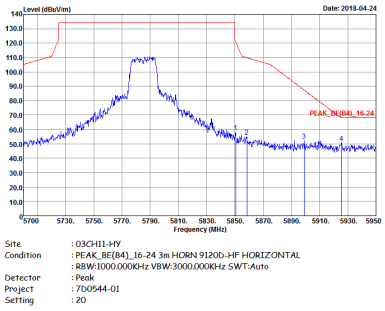
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

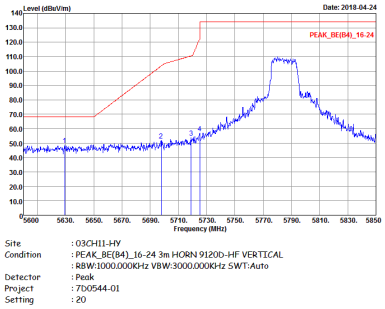
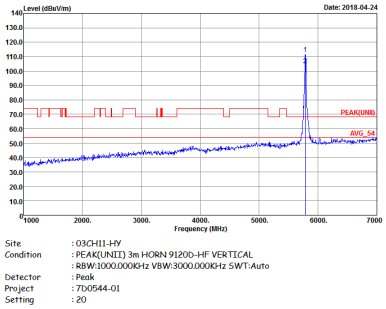
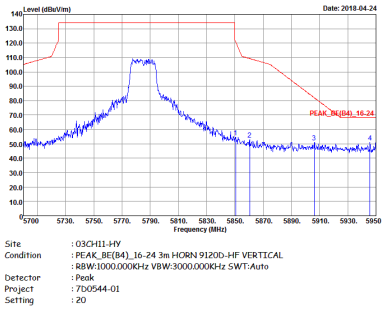
Band 4 5725~5850MHz

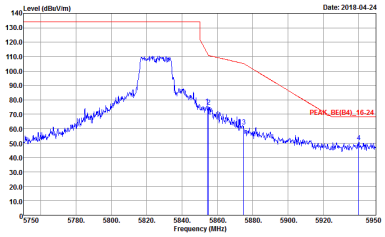
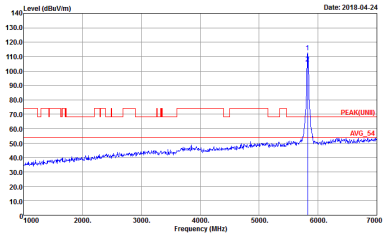
WIFI 802.11n HT20 (Band Edge @ 3m)

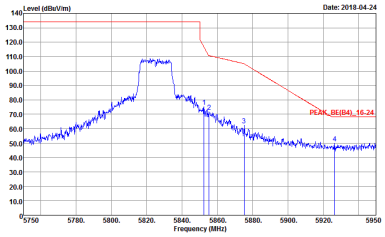
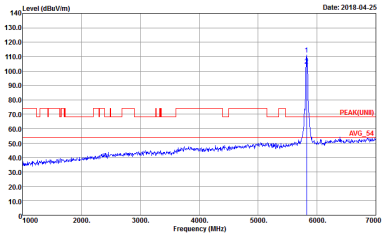
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

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

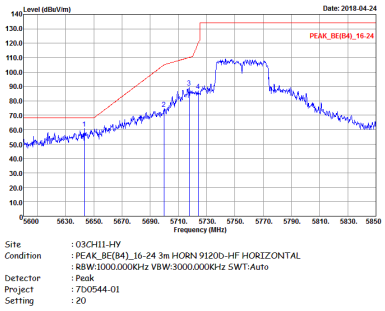
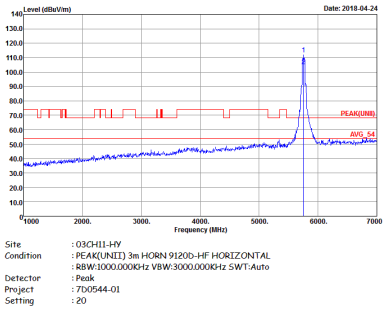
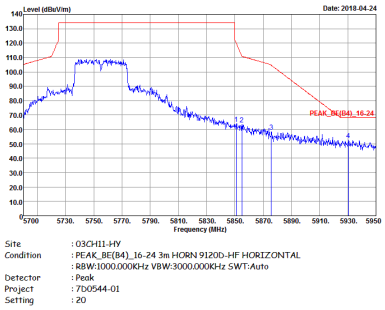
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

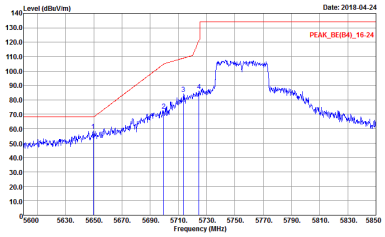
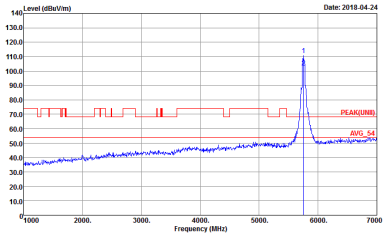
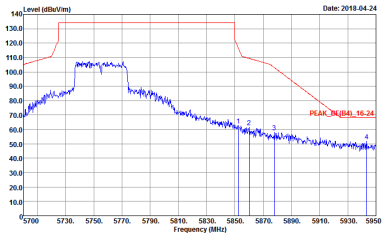
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

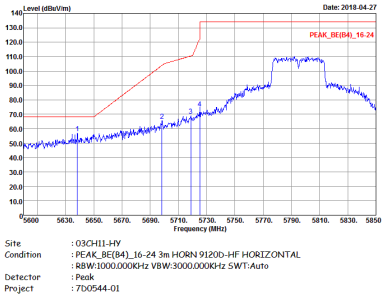
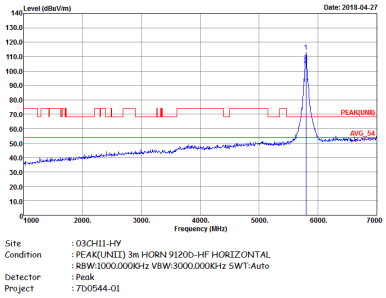
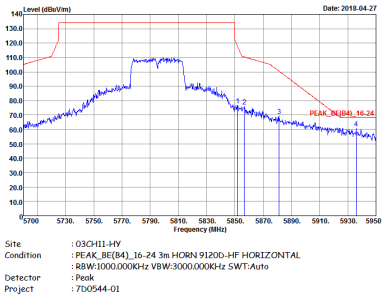
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

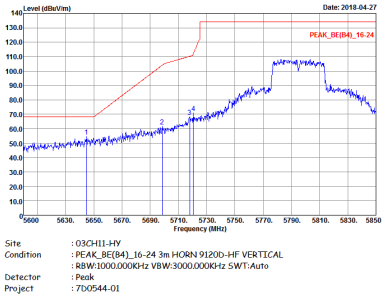
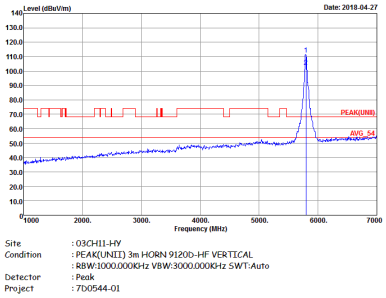
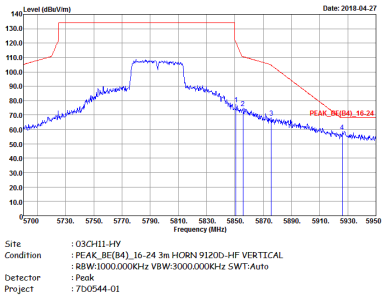
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

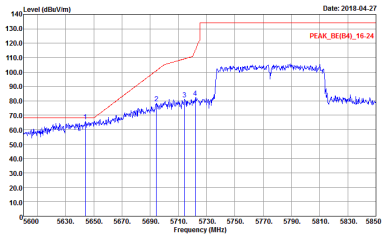
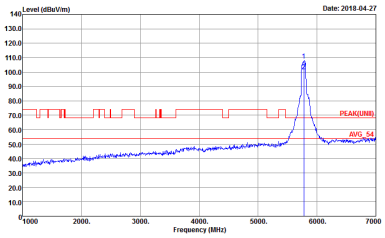
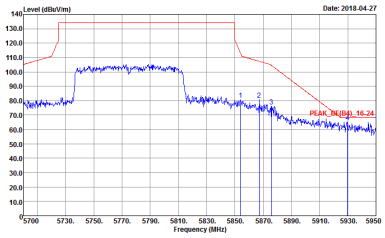
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

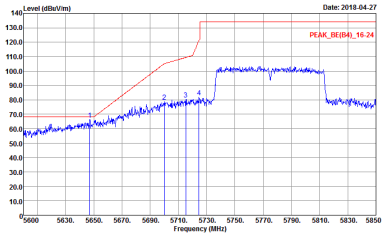
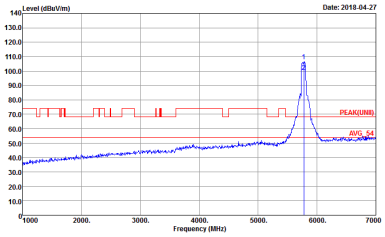
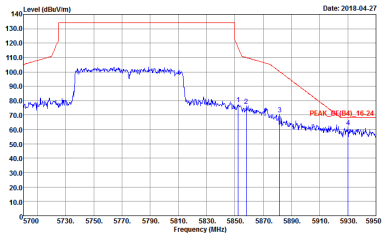
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	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

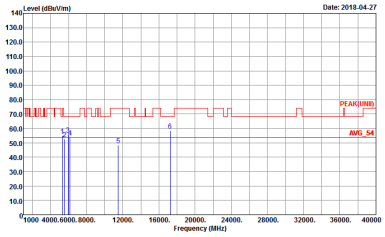
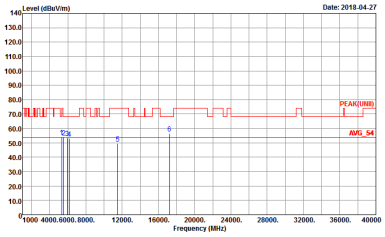
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

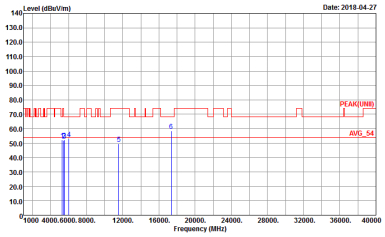
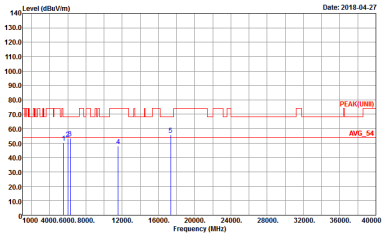
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5
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 : 7D0544-01 Setting : 19.5	Left blank

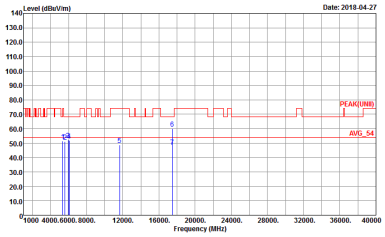
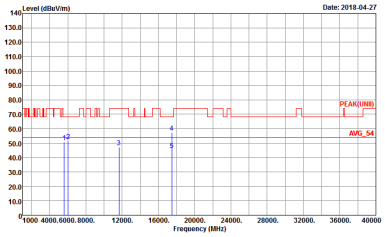
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

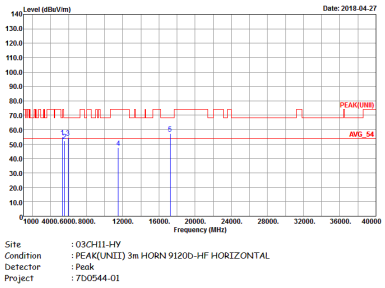
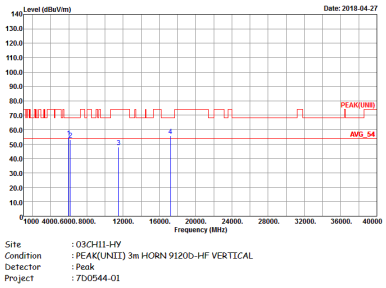
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

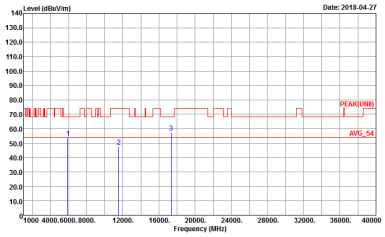
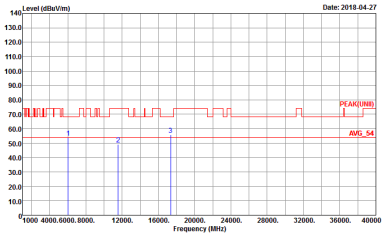
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

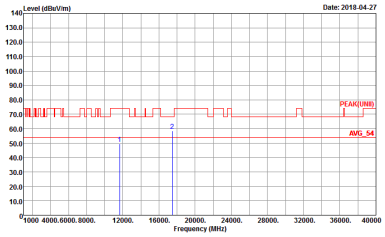
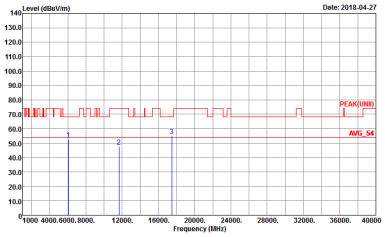
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

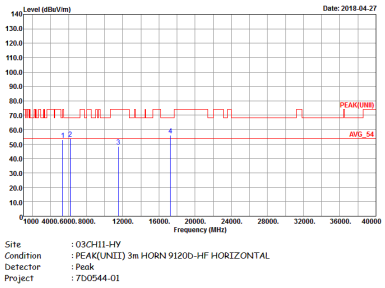
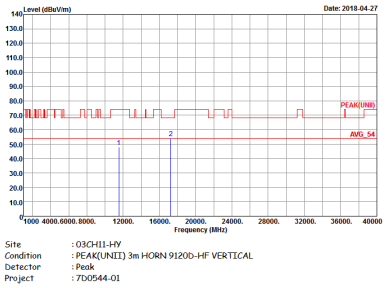
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

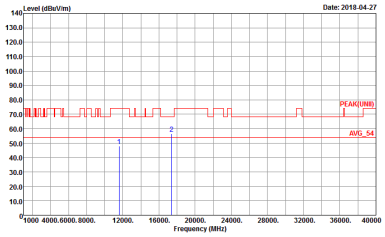
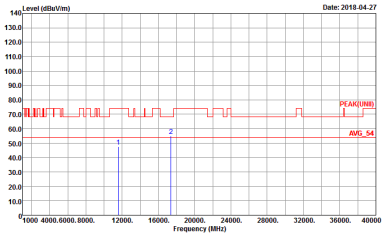
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

Band 4 5725~5850MHz

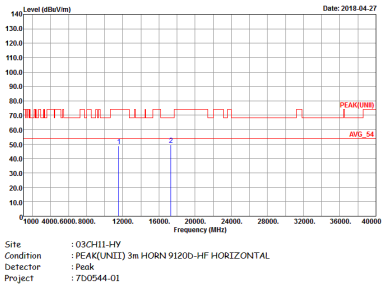
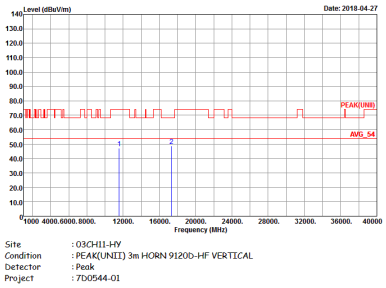
WIFI 802.11n HT40 (Harmonic @ 3m)

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.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

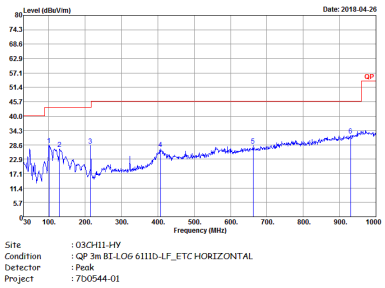
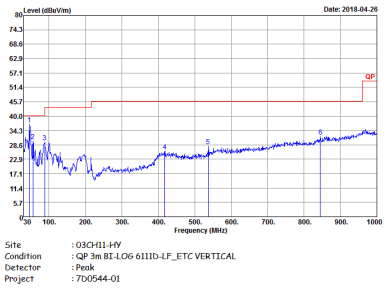
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

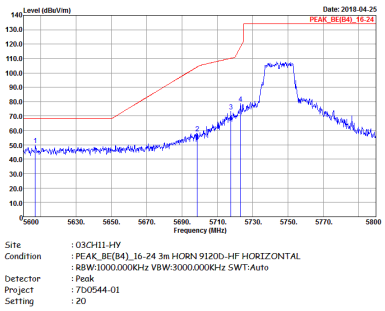
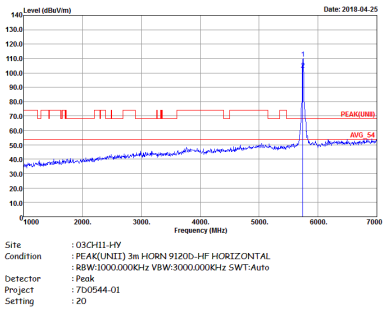
Emission below 1GHz

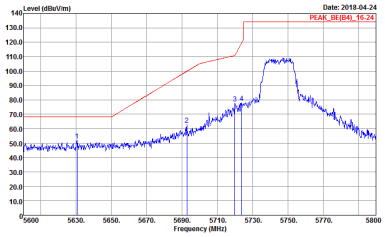
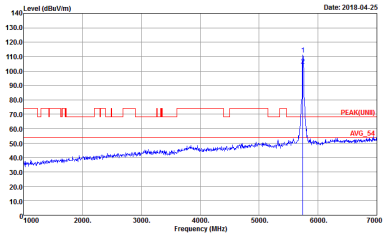
5GHz WIFI 802.11ac VHT80 (LF)

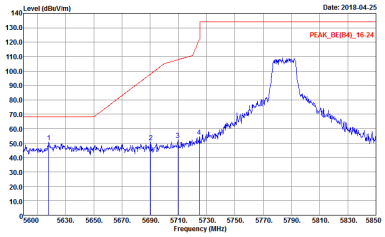
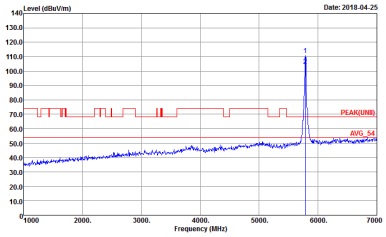
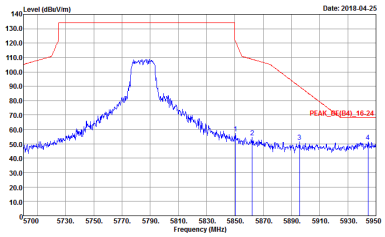
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

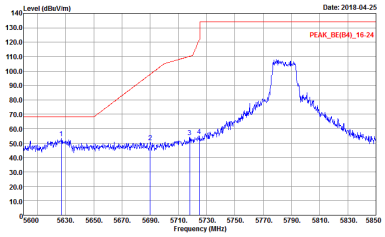
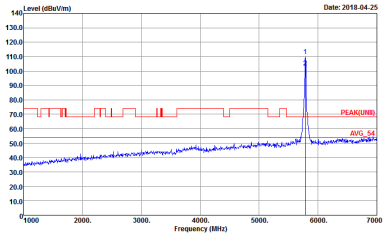
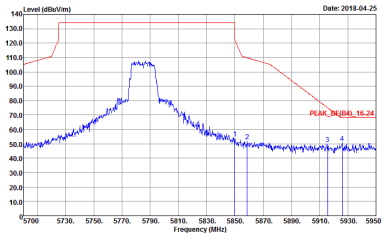
Band 4 - 5725~5850MHz

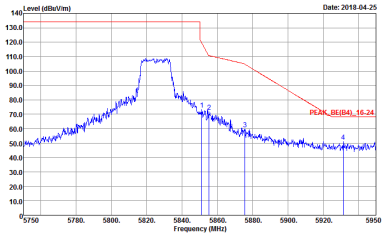
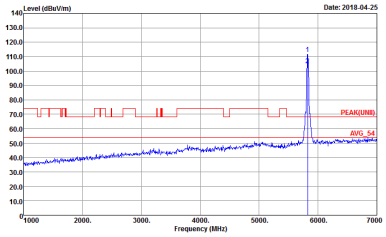
WIFI 802.11a (Band Edge @ 3m)

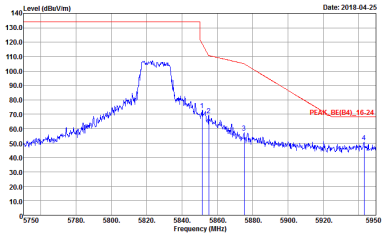
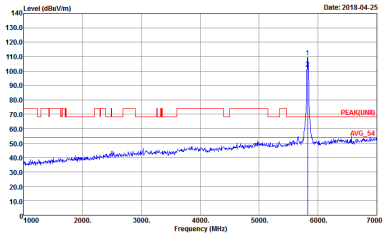
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

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	 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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

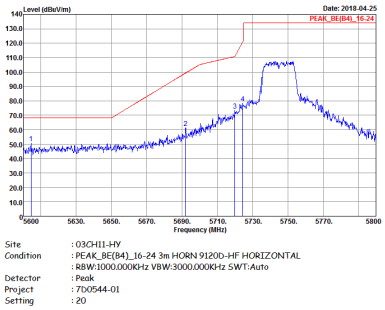
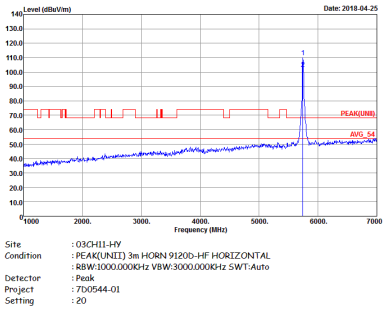
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

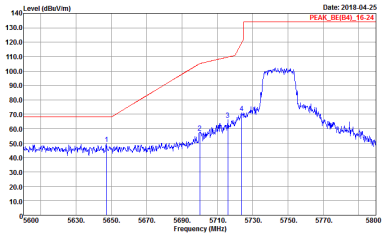
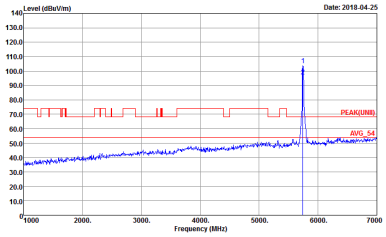
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

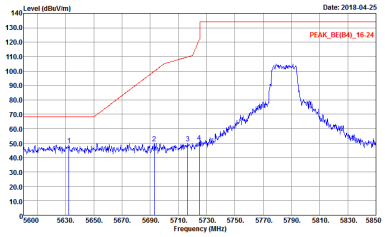
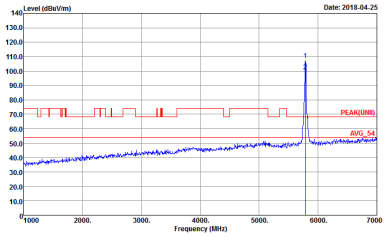
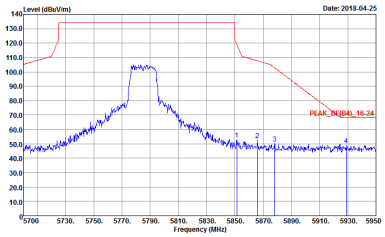
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

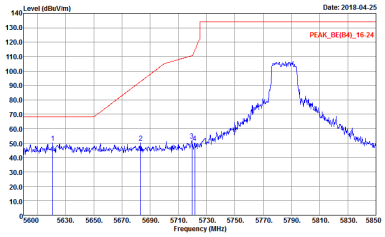
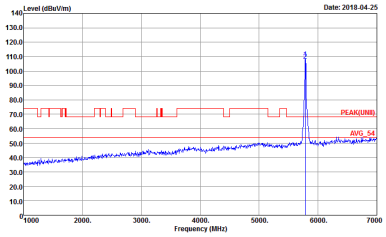
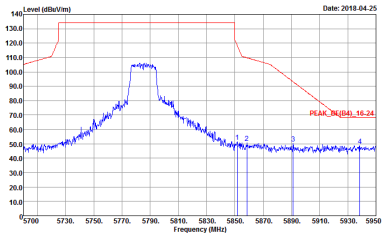
Band 4 5725~5850MHz

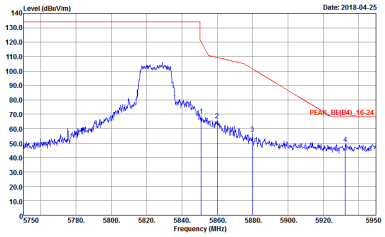
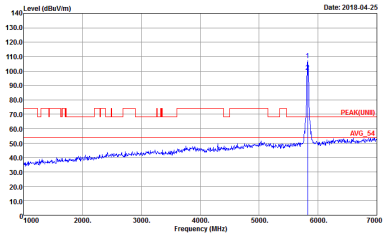
WIFI 802.11n HT20 (Band Edge @ 3m)

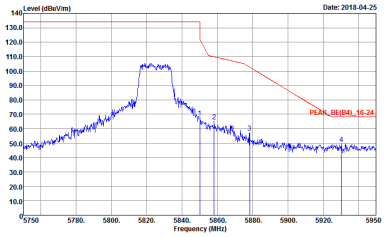
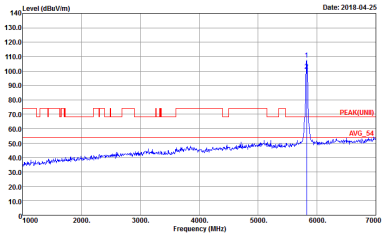
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

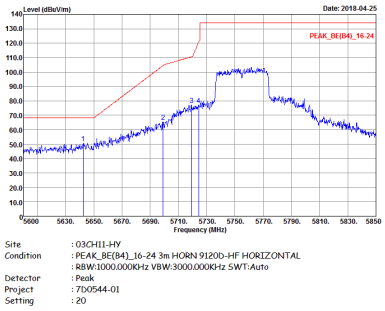
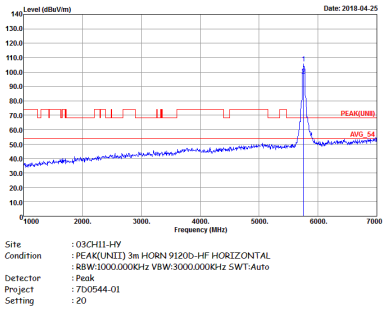
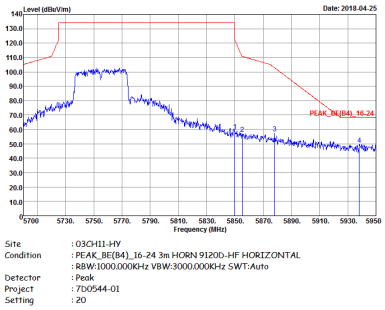
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

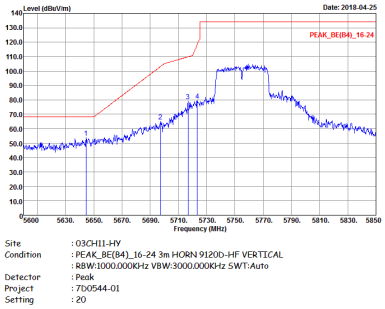
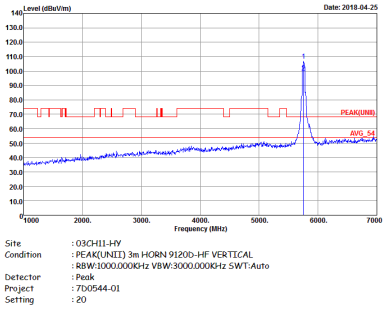
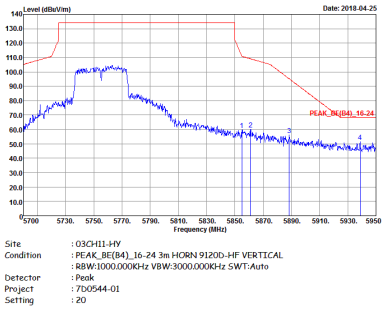
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

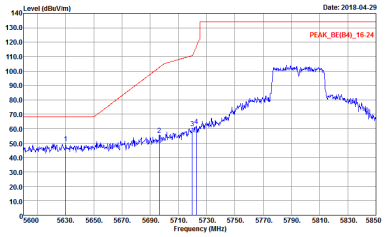
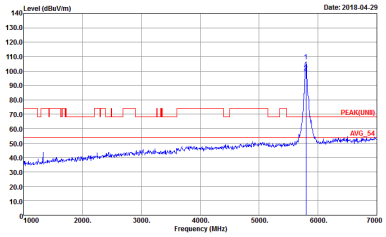
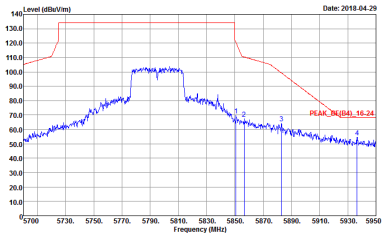
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

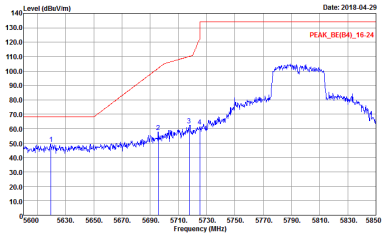
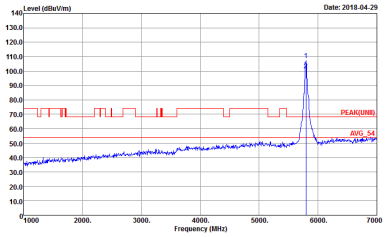
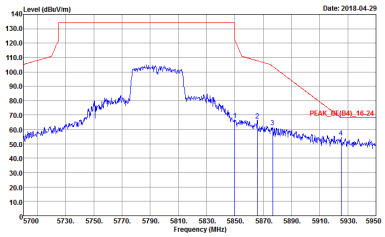
Band 4 5725~5850MHz

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

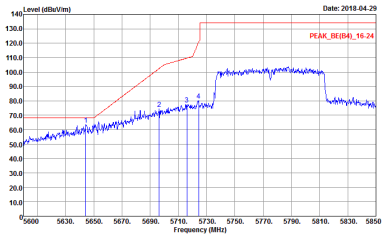
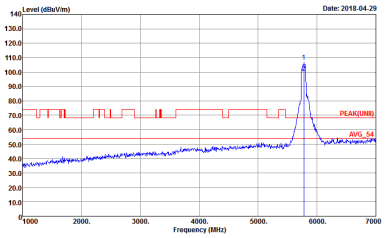
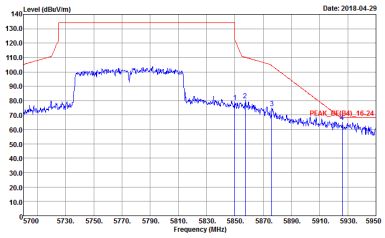
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

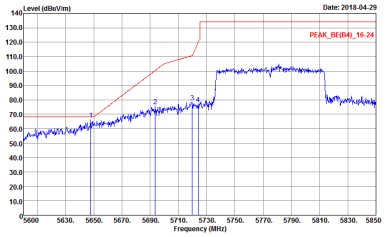
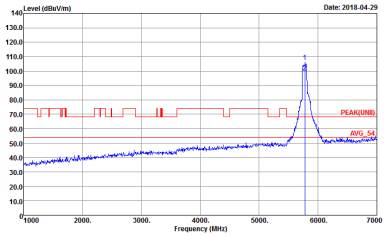
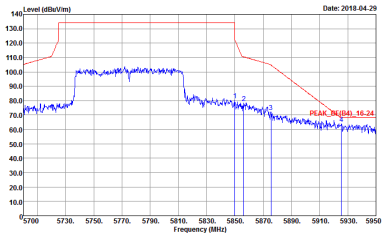
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

Band 4 5725~5850MHz

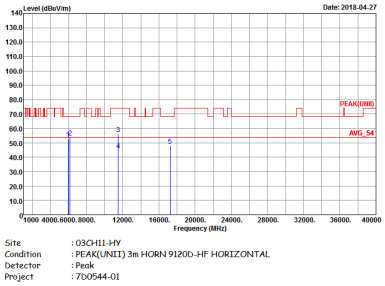
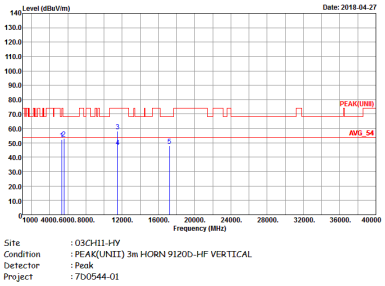
WIFI 802.11ac VHT80 (Band Edge @ 3m)

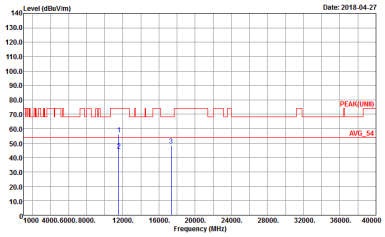
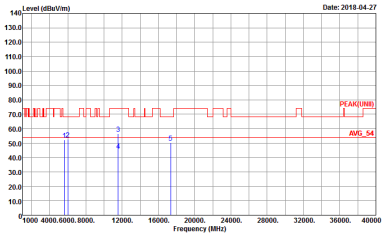
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

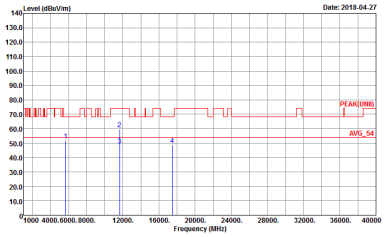
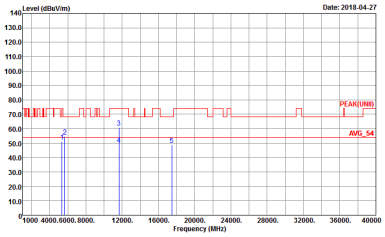
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

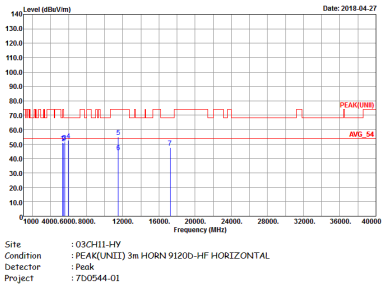
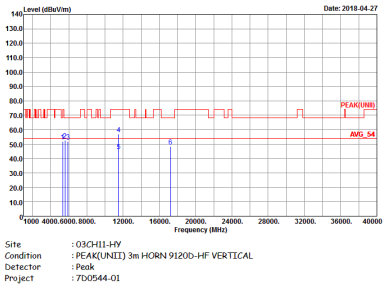
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

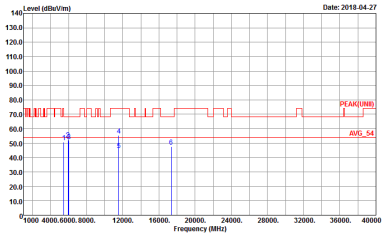
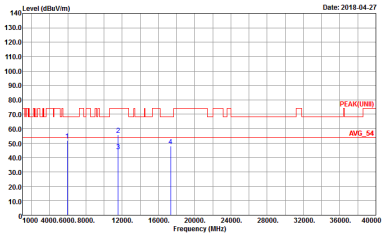
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

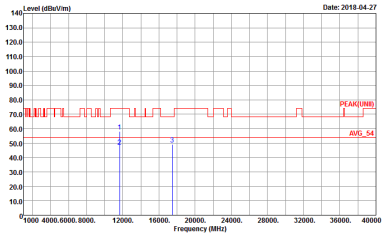
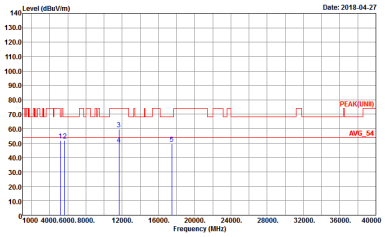
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

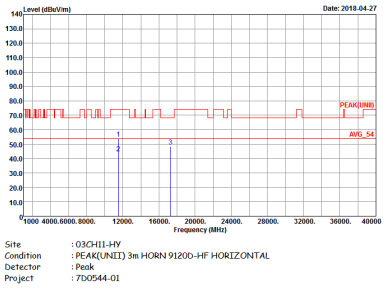
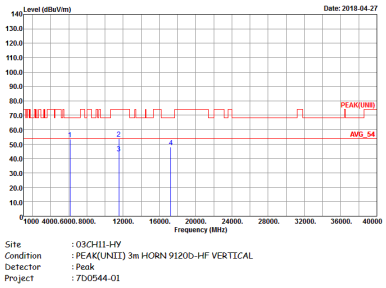
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

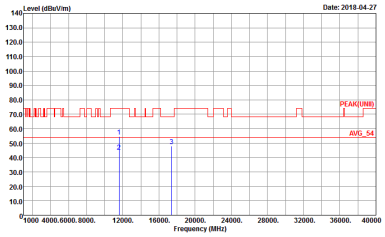
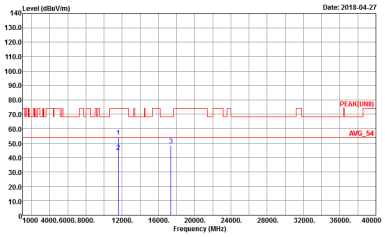
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

Band 4 5725~5850MHz

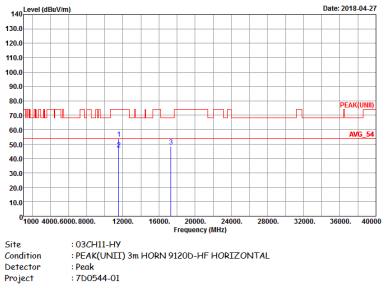
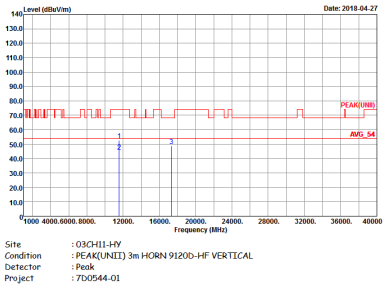
WIFI 802.11n HT40 (Harmonic @ 3m)

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.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01

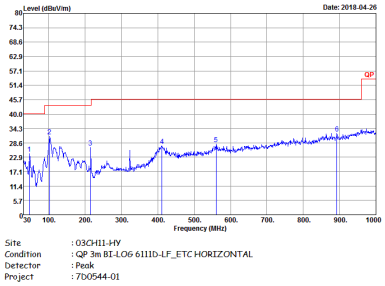
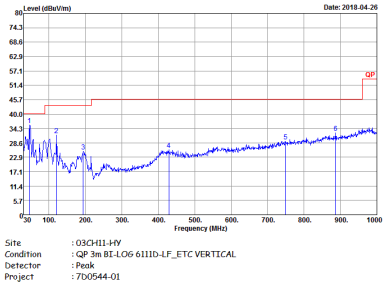
Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

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

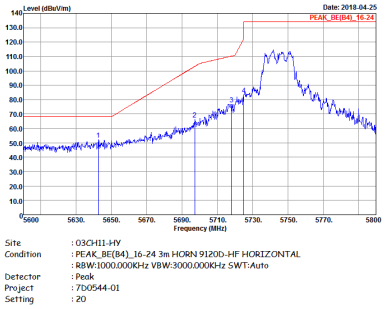
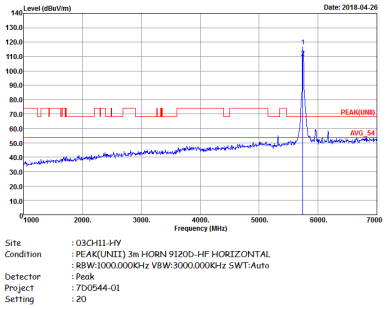
Emission below 1GHz

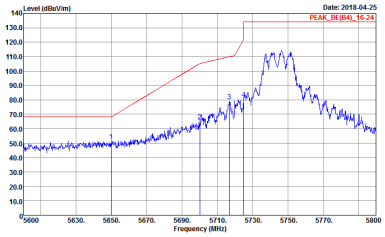
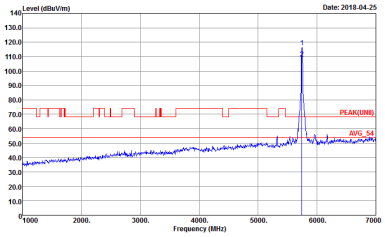
5GHz WIFI 802.11ac VHT80 (LF)

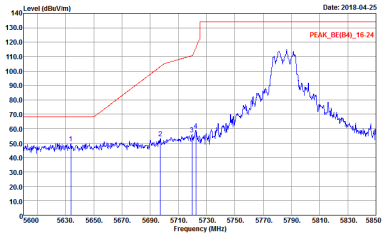
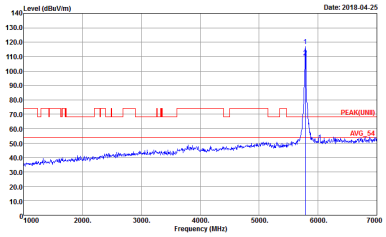
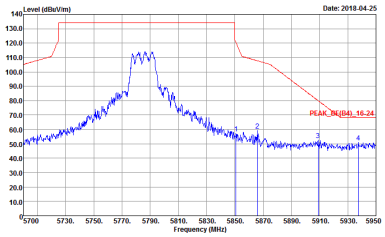
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak		

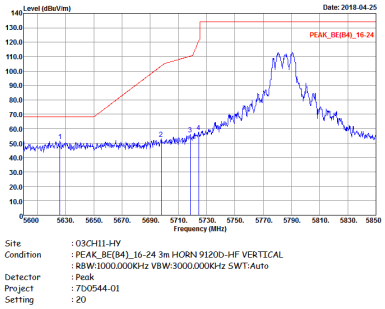
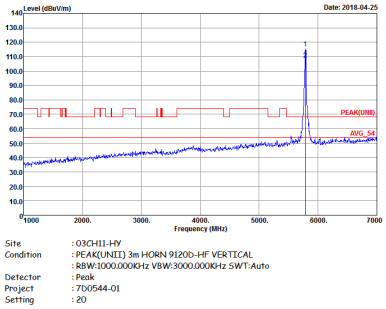
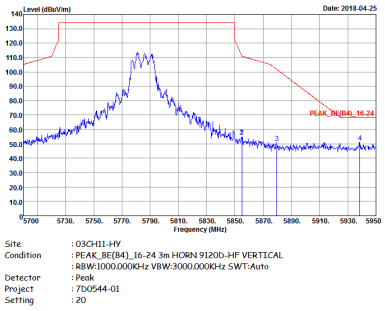
Band 4 - 5725~5850MHz

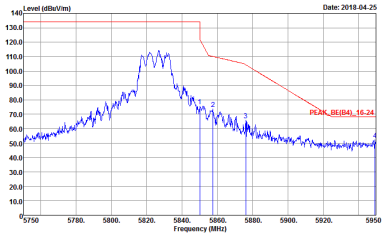
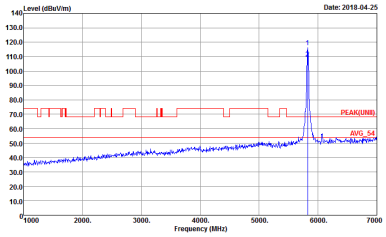
WIFI 802.11a (Band Edge @ 3m)

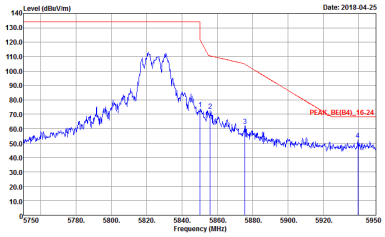
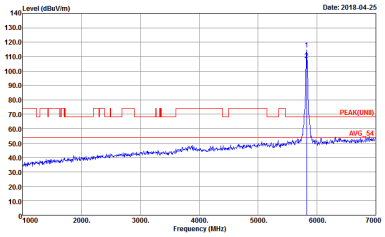
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

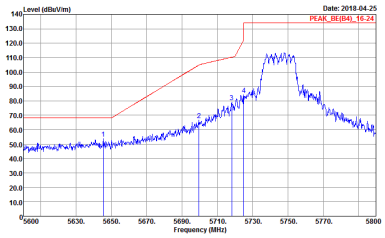
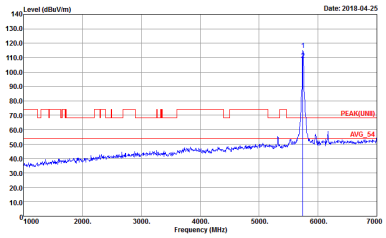
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

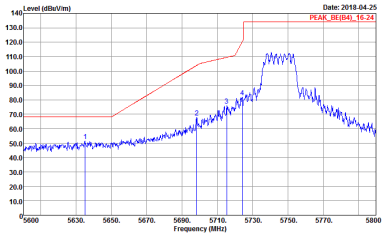
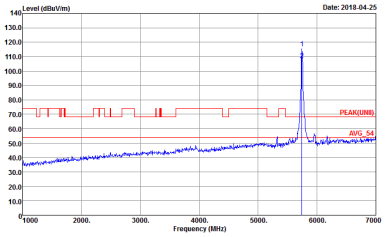
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

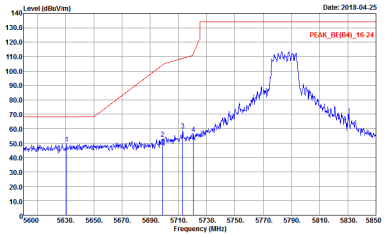
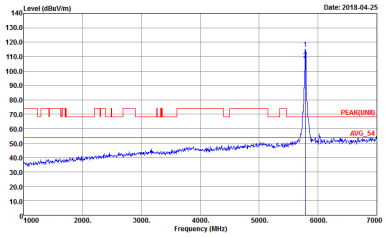
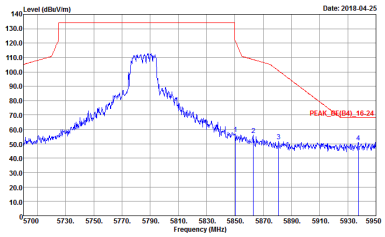
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

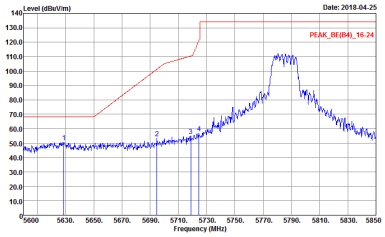
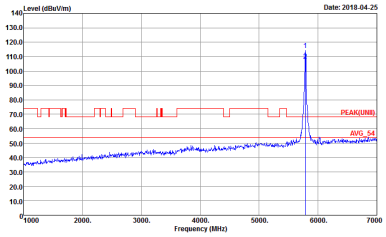
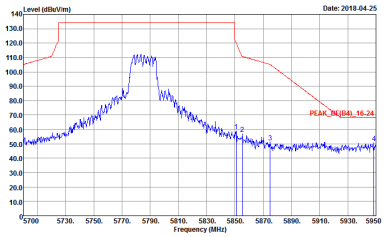
Band 4 5725~5850MHz

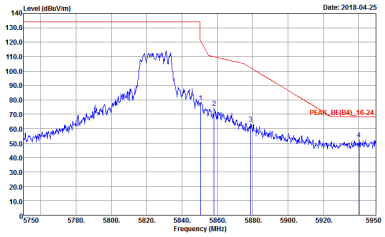
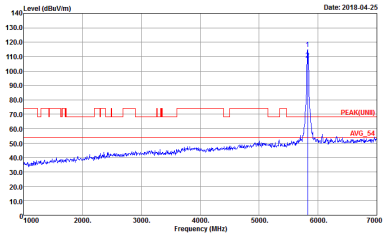
WIFI 802.11n HT20 (Band Edge @ 3m)

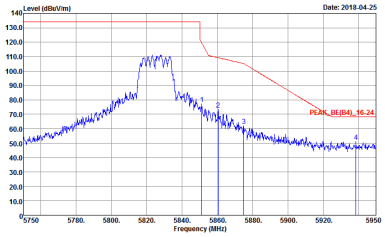
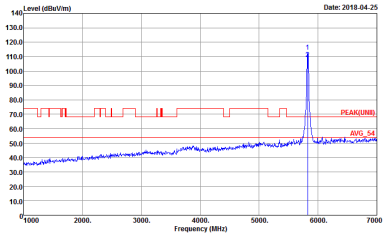
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

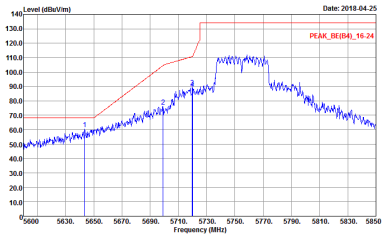
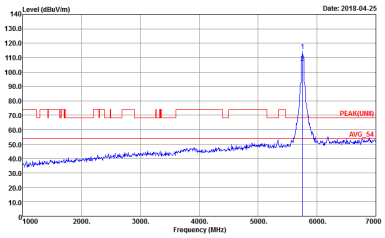
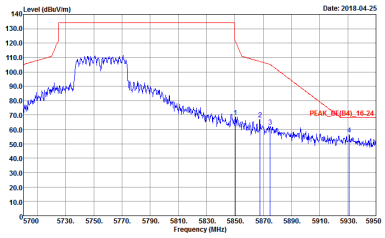
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

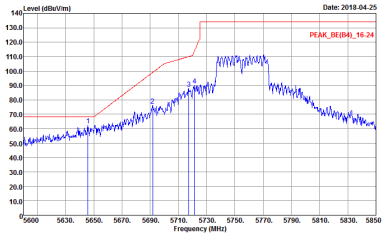
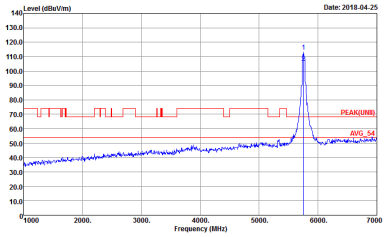
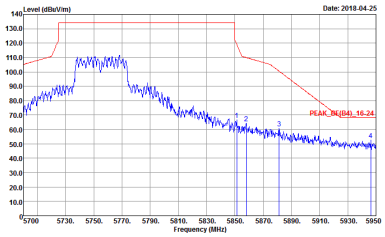
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

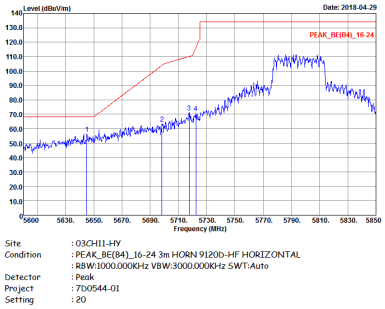
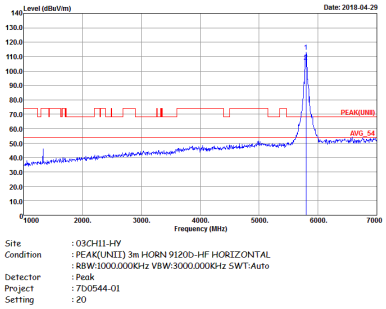
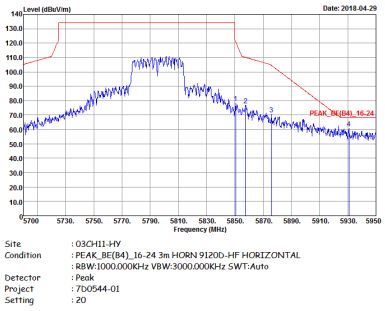
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20

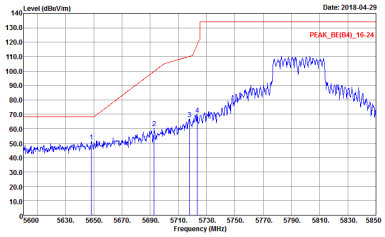
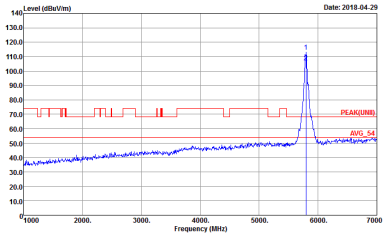
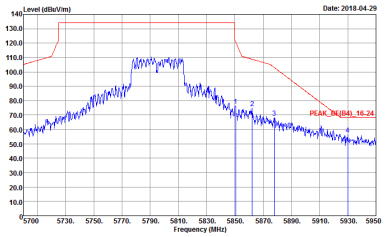
Band 4 5725~5850MHz

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	 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 : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
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 : 7D0544-01 Setting : 20	Left blank

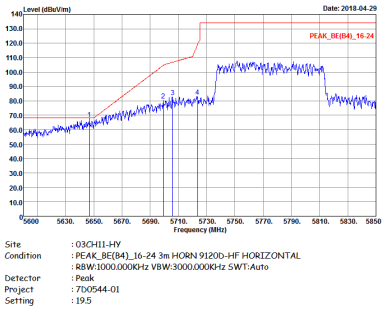
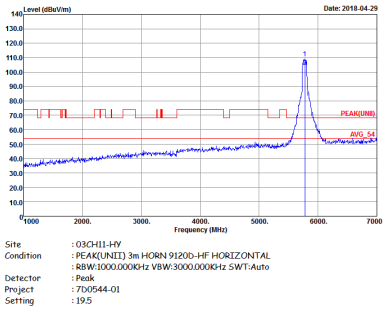
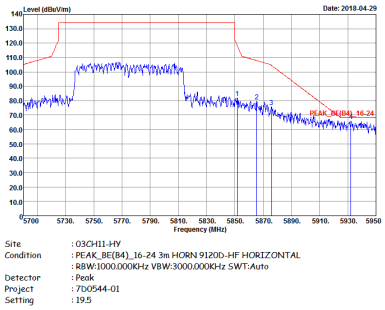
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

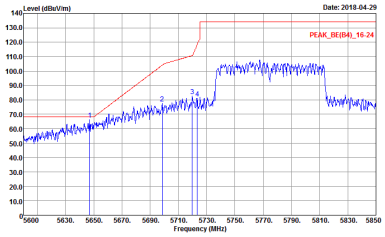
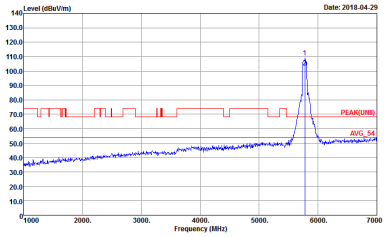
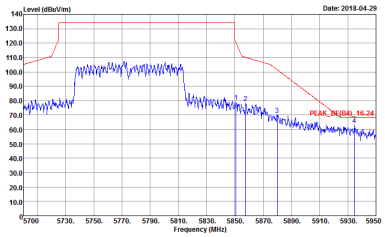
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 20	Left blank

Band 4 5725~5850MHz

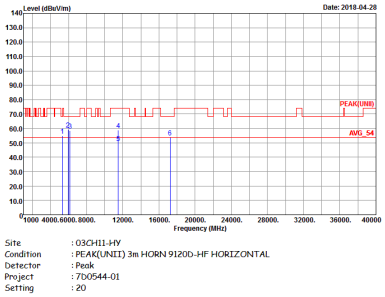
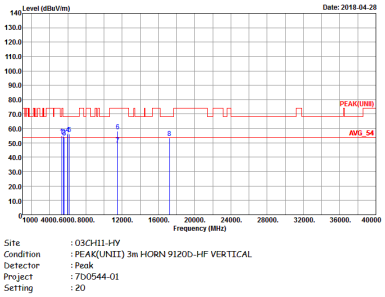
WIFI 802.11ac VHT80 (Band Edge @ 3m)

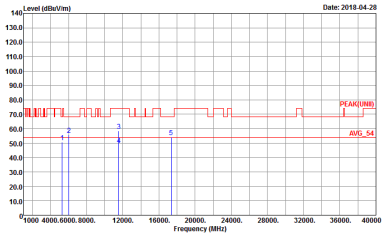
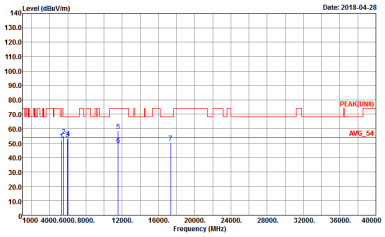
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

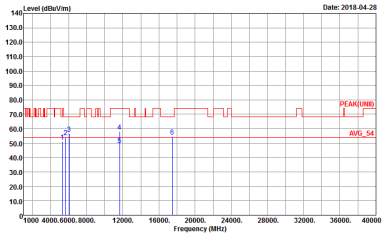
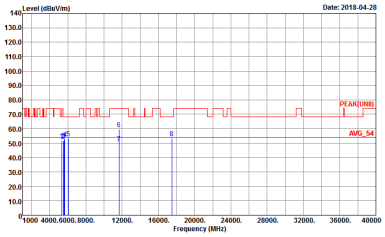
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5
Peak	 Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7D0544-01 Setting : 19.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

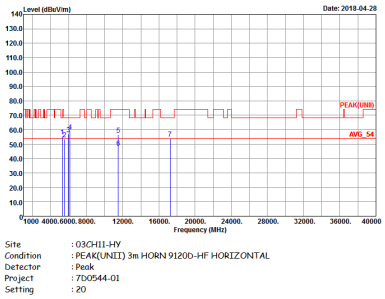
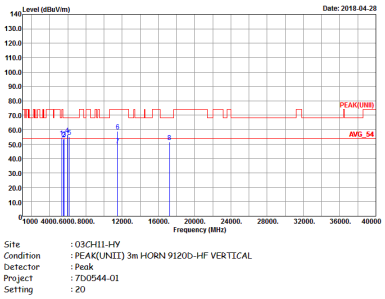
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

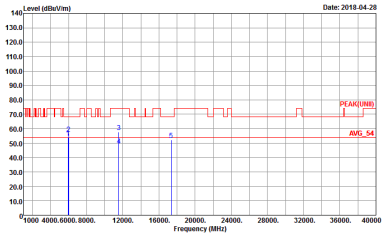
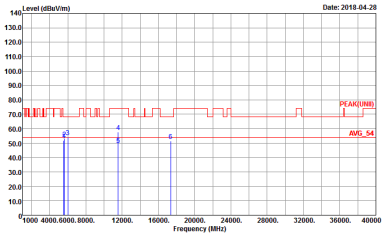
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

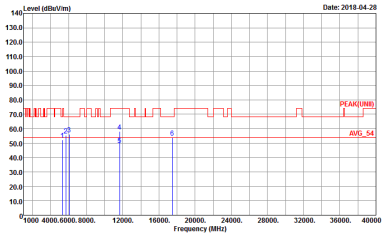
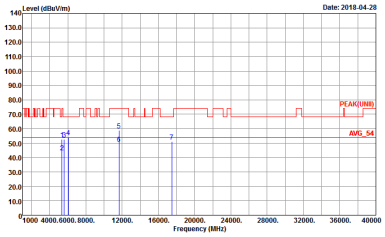
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

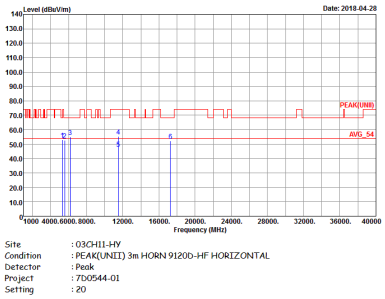
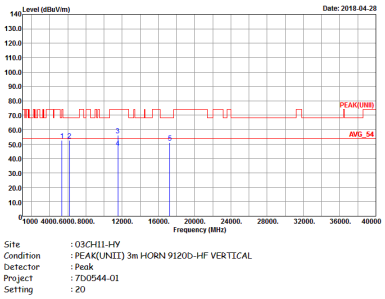
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

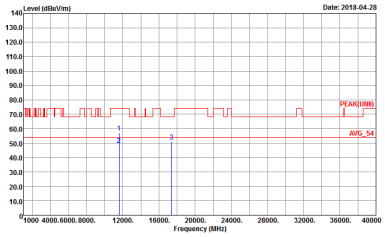
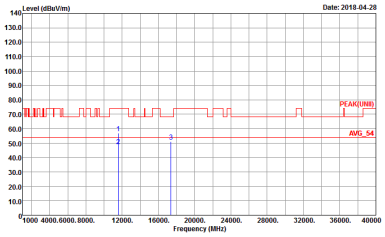
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

Band 4 5725~5850MHz

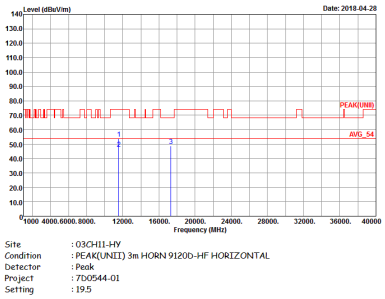
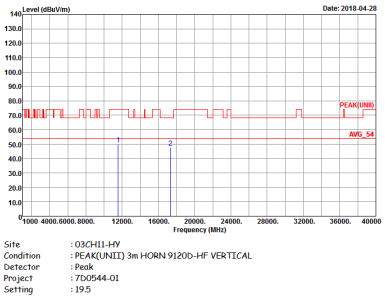
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HV Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 7D0544-01 Setting : 20	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 7D0544-01 Setting : 20

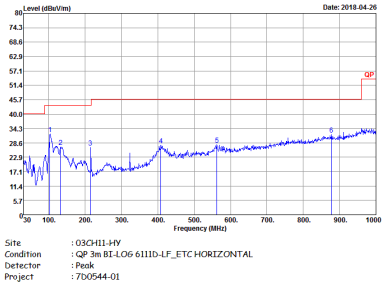
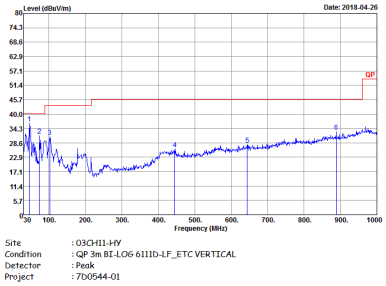
Band 4 5725~5850MHz

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)

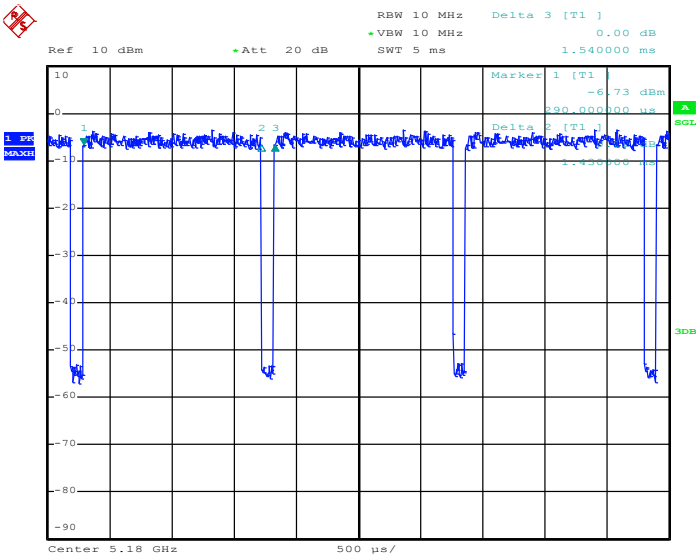
WIFI	5GHz 5725~5850MHz	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
1	802.11a	92.86	1430.00	0.699	1kHz	0.32
2	802.11a	92.86	1430.00	0.699	1kHz	0.32
1+2	802.11a for Antenna 1	93.46	1430.00	0.699	1kHz	0.29
1+2	802.11a for Antenna 2	92.86	1430.00	0.699	1kHz	0.32
1	5GHz 802.11n HT20	92.41	1340.00	0.746	1kHz	0.34
2	5GHz 802.11n HT20	92.41	1340.00	0.746	1kHz	0.34
1+2	5GHz 802.11n HT20 for Antenna 1	93.06	1340.00	0.746	1kHz	0.31
1+2	5GHz 802.11n HT20 for Antenna 2	92.41	1340.00	0.746	1kHz	0.34
1	5GHz 802.11n HT40	85.94	660.00	1.515	3kHz	0.66
2	5GHz 802.11n HT40	85.94	660.00	1.515	3kHz	0.66
1+2	5GHz 802.11n HT40 for Antenna 1	86.61	660.00	1.515	3kHz	0.62
1+2	5GHz 802.11n HT40 for Antenna 2	86.67	663.00	1.508	3kHz	0.62
1	5GHz 802.11ac VHT20	92.41	1340.00	0.746	1kHz	0.34
2	5GHz 802.11ac VHT20	92.47	1350.00	0.740	1kHz	0.34
1+2	5GHz 802.11ac VHT20 for Antenna 1	93.13	1355.00	0.738	1kHz	0.31
1+2	5GHz 802.11ac VHT20 for Antenna 2	92.47	1350.00	0.741	1kHz	0.34
1	5GHz 802.11ac VHT40	86.72	666.00	1.501	3kHz	0.61
2	5GHz 802.11ac VHT40	85.27	660.00	1.510	3kHz	0.69
1+2	5GHz 802.11ac VHT40 for Antenna 1	86.72	666.00	1.502	3kHz	0.62
1+2	5GHz 802.11ac VHT40 for Antenna 2	86.72	666.00	1.502	3kHz	0.62
1	5GHz 802.11ac VHT80	76.15	332.00	3.012	10kHz	1.18
2	5GHz 802.11ac VHT80	75.93	328.00	3.049	10kHz	1.20
1+2	5GHz 802.11ac VHT80 for Antenna 1	76.85	332.00	3.012	10kHz	1.14
1+2	5GHz 802.11ac VHT80 for Antenna 2	76.04	330.00	3.030	10kHz	1.19

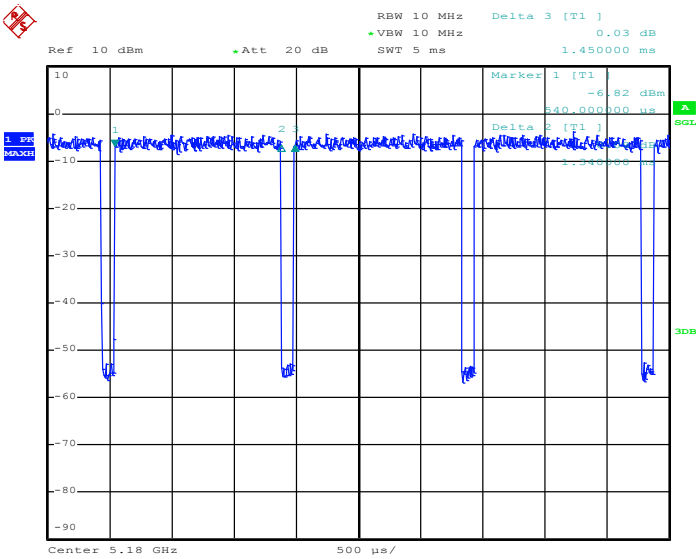
<Ant. 1>

802.11a



Date: 17.APR.2018 11:37:43

802.11n HT20



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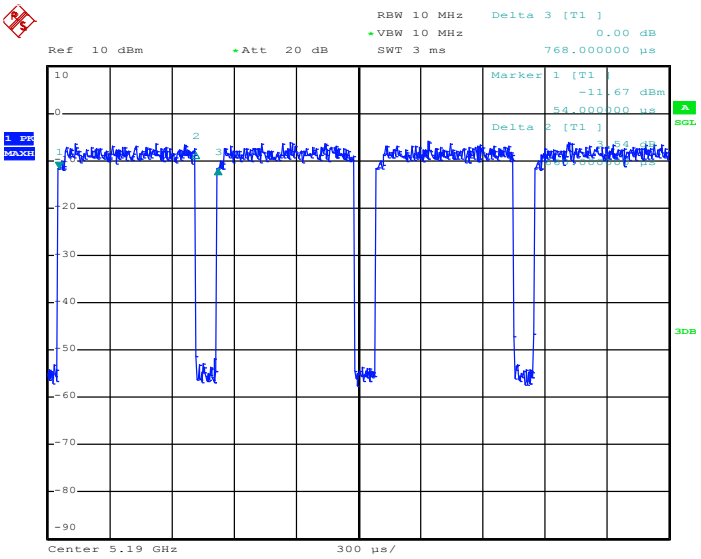

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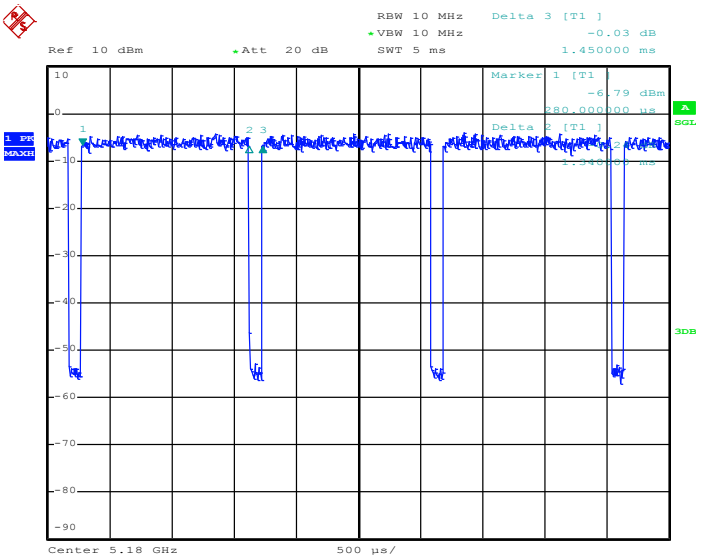

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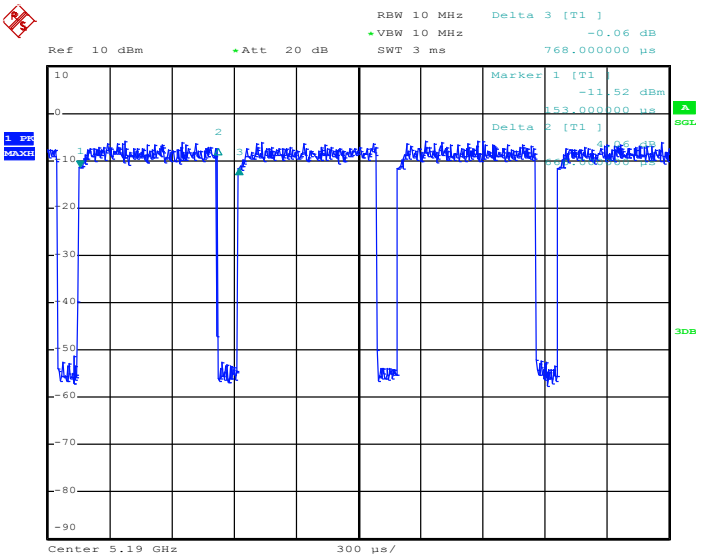

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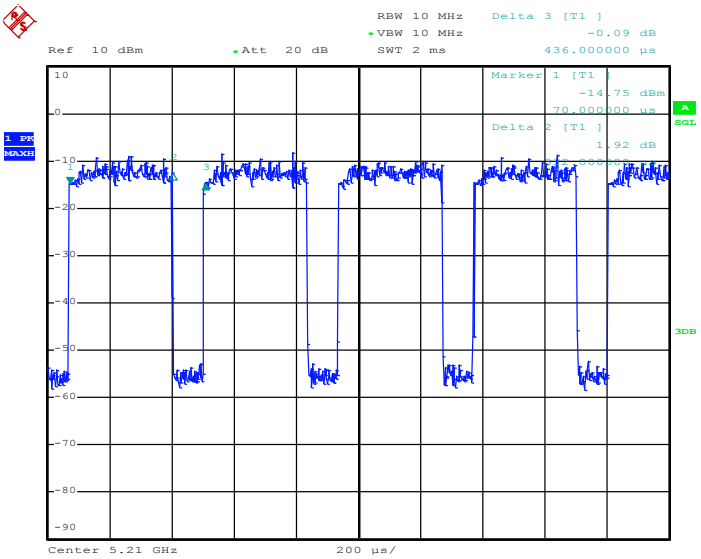

Date: 17.APR.2018 12:16:03

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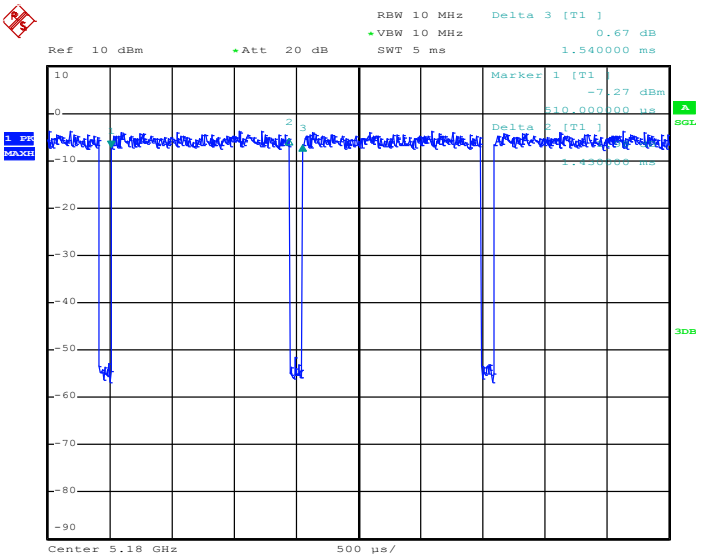
802.11a



Date: 17.APR.2018 11:49:04

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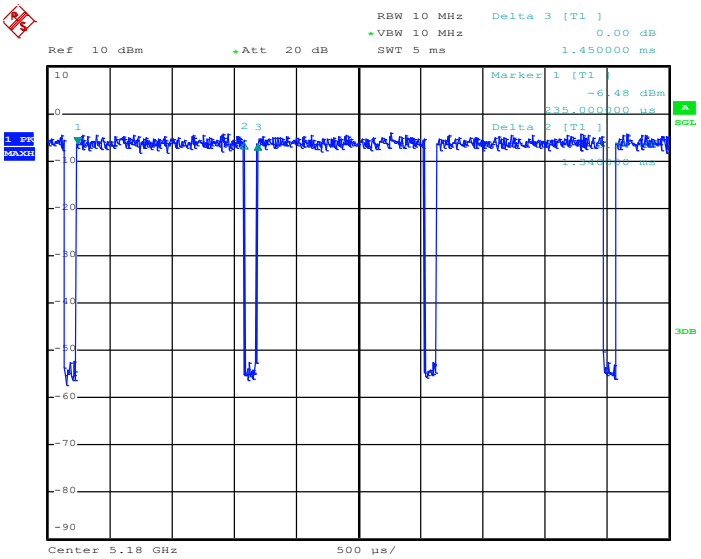

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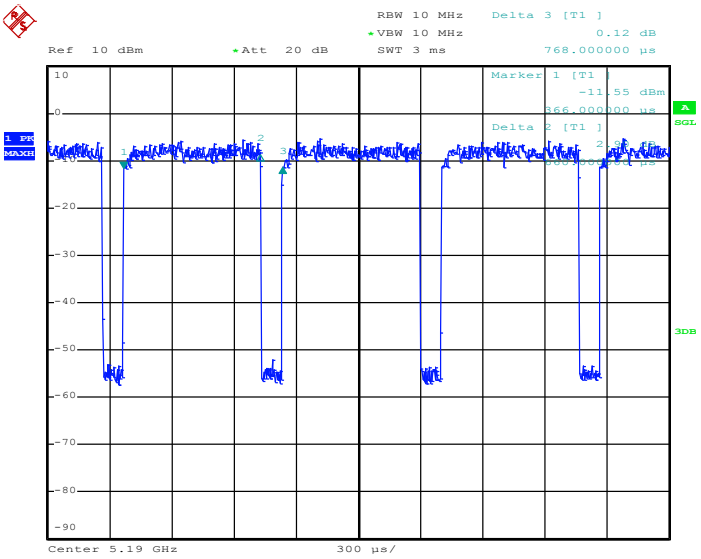

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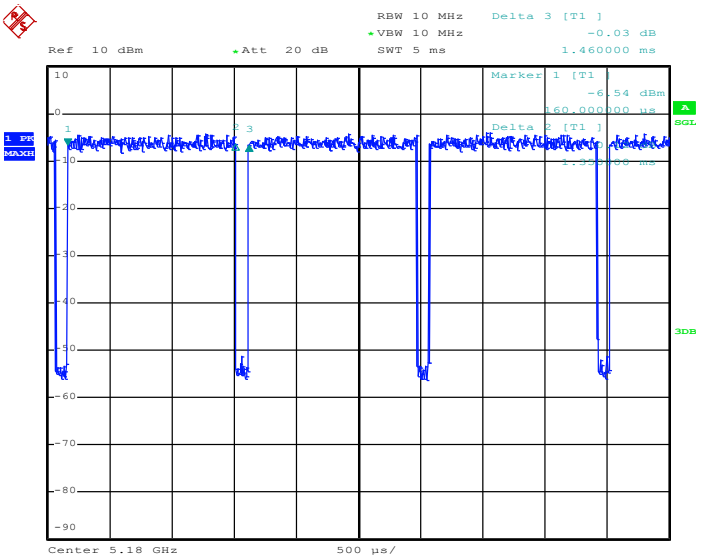

Date: 17.APR.2018 12:07:05

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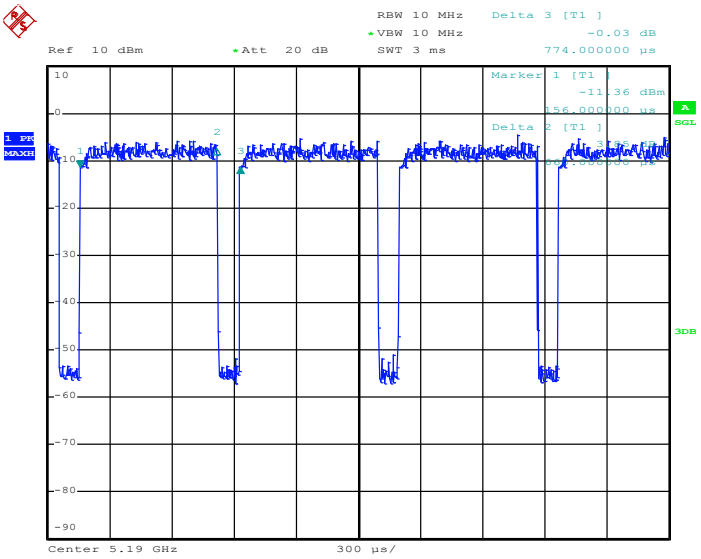

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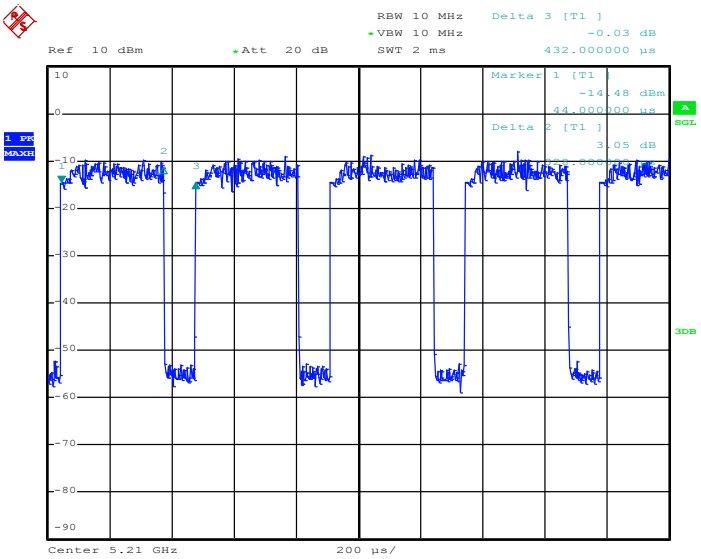

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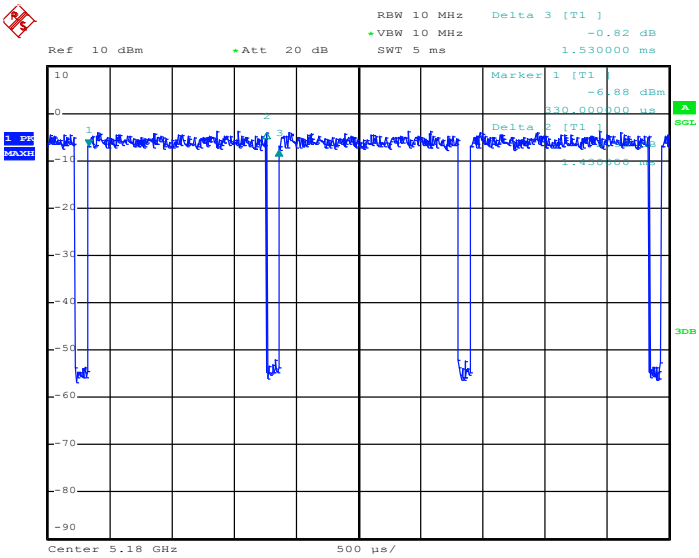
MIMO <Ant. 1>

802.11a



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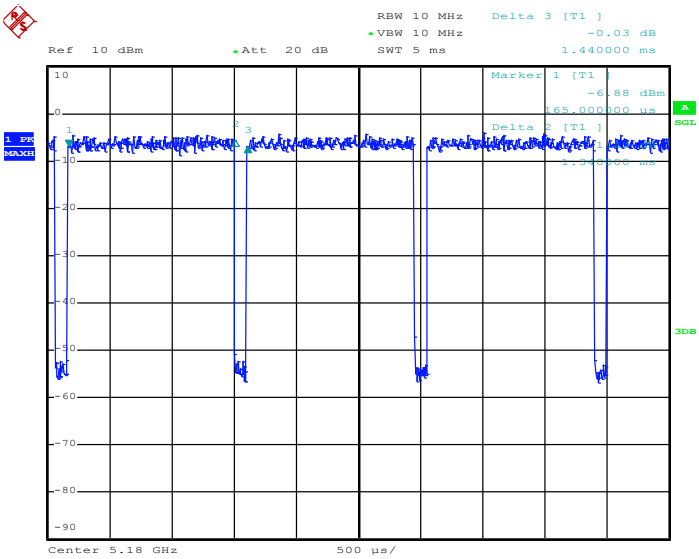

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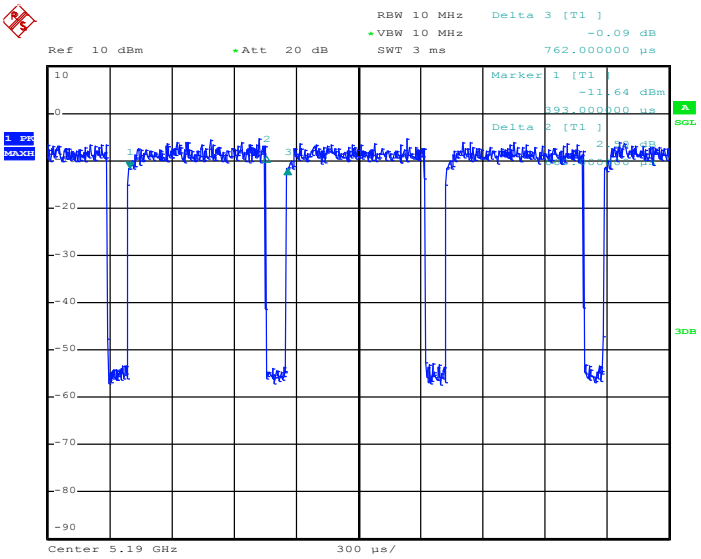

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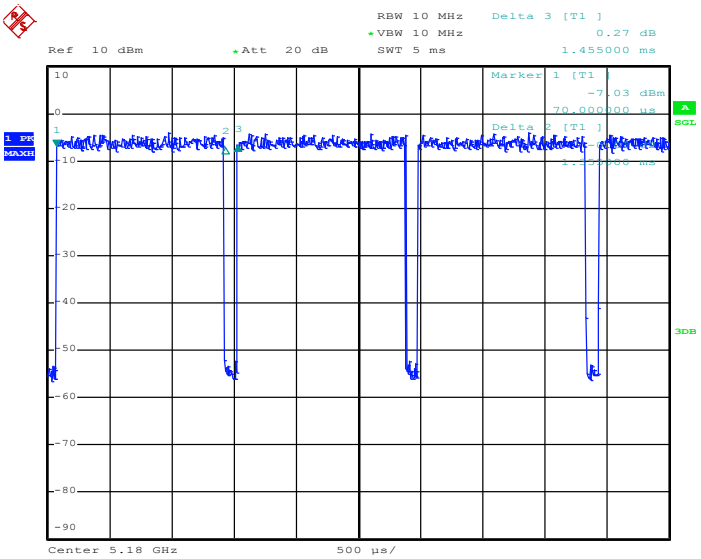

Date: 17.APR.2018 12:07:58

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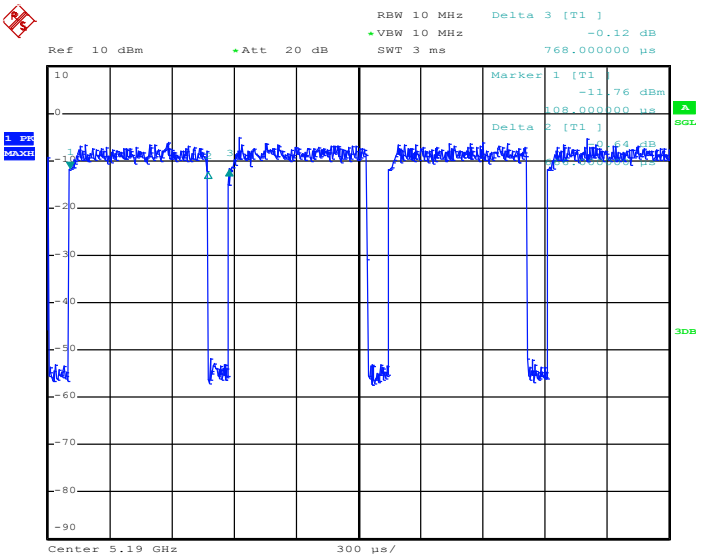

Date: 17.APR.2018 12:13:42

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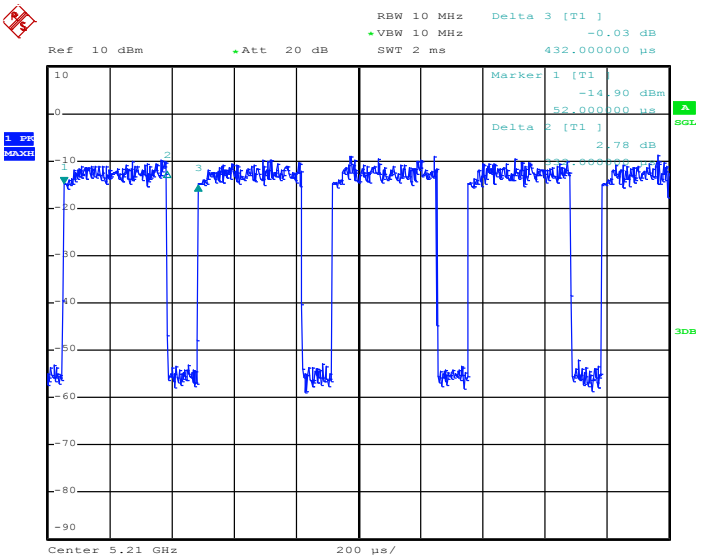

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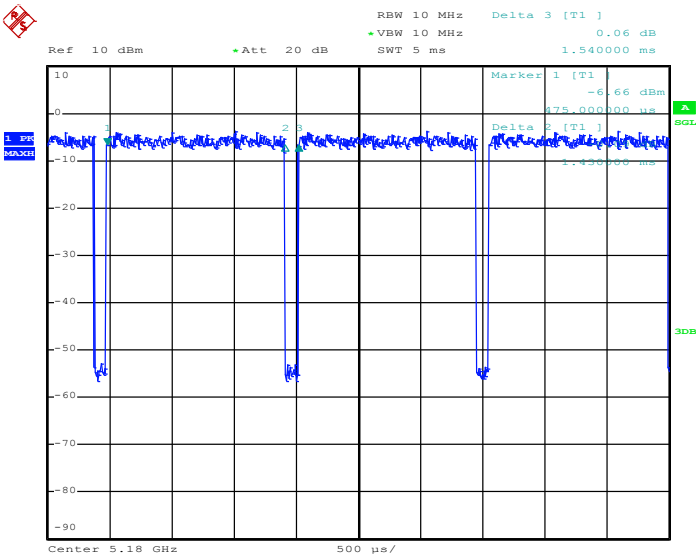

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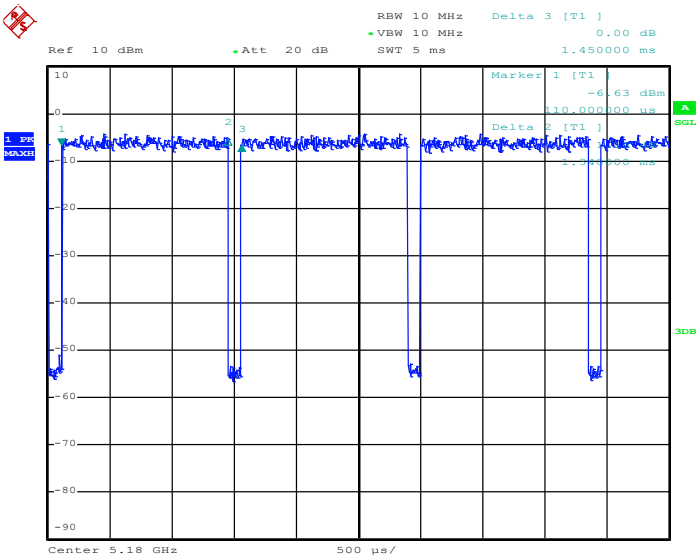

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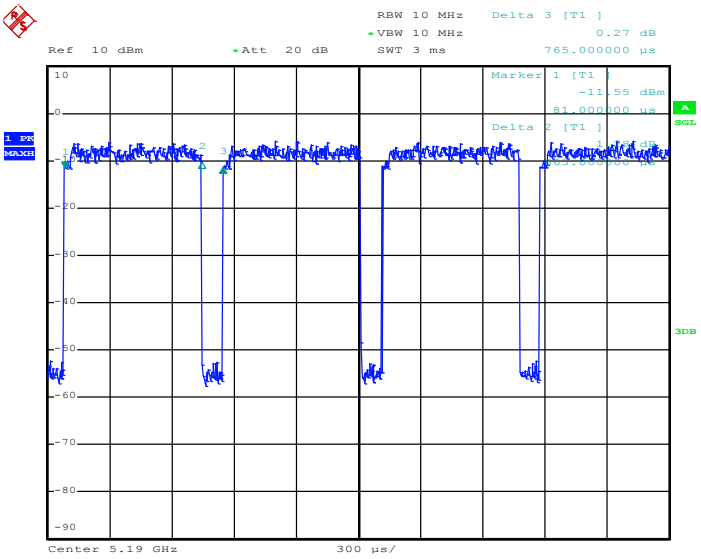

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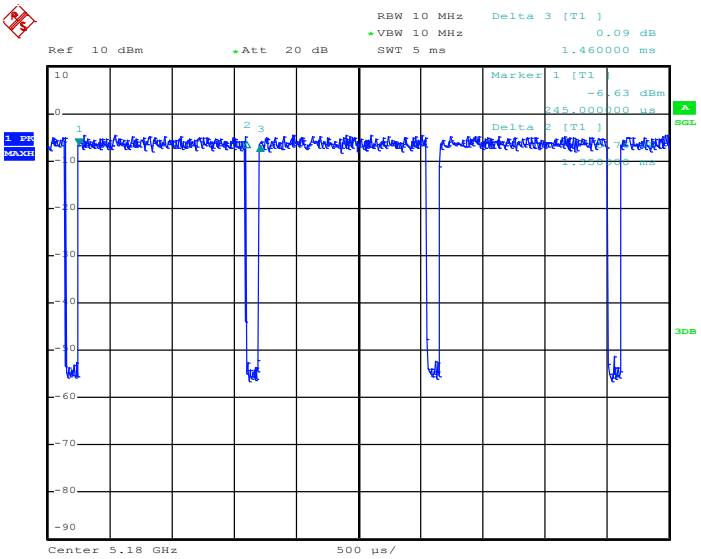

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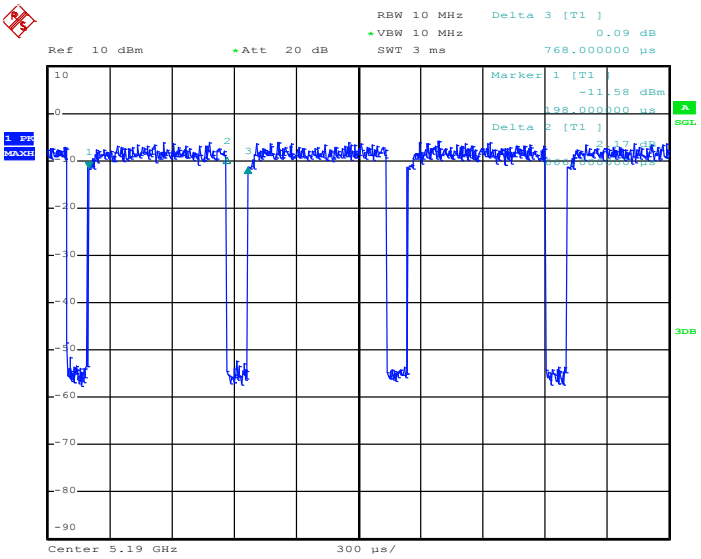

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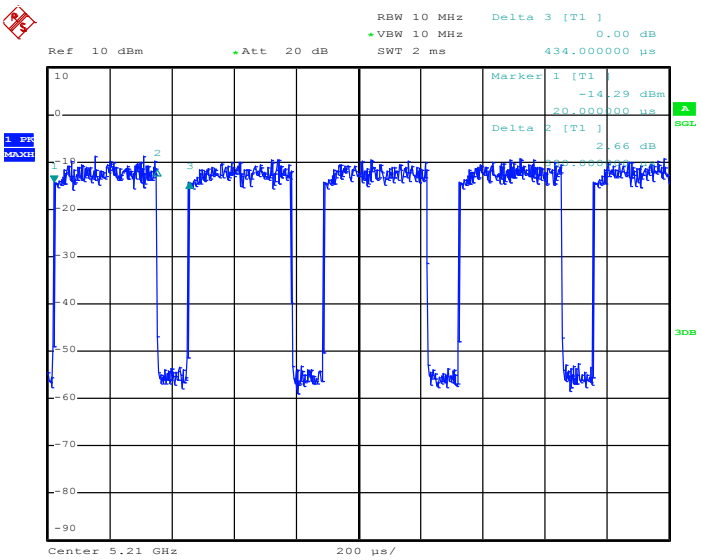

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