FCC RF Test Report

APPLICANT	:	ASUSTeK COMPUTER INC.
EQUIPMENT	:	ASUS Phone
BRAND NAME	:	ASUS
MODEL NAME	:	ASUS_Z01GD
FCC ID	:	MSQZ01GD
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Apr. 08, 2017 and testing was completed on Jul. 12, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory
1190

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR740840E	Rev. 01	Initial issue of report	Aug. 09, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 2.48 dB at 5351.040 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.50 dB at 0.158 MHz
0	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN

1.2 Manufacturer

COTEK ELECTRONICS (SUZHOU) CO., LTD.
No.288, Mayun Road, Suzhou Hi-and-New Tech Park, Jiangsu, PRC

1.3 Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GPS

Product Specification subjective to this standard	
Sample 1	EUT with SKU 1
Sample 2	EUT with SKU 2
Sample 3	EUT with SKU 3
Sample 4	EUT with SKU 4
Sample 5	EUT with SKU 5
Sample 6	EUT with SKU 6
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna

<Sample Information>

SKU MB	SKU1	SKU2
DDR4X	6G/ Hynix	6G/ Hynix
UFS 2.1	128G/ Samsung	64G/ Toshiba
CPU	MSM-8998-1-885MPSP-TR-02-0-AB	
TP Module	TIANMA/TA055VVHM08-03 ON CELL	TIANMA//TA055VVHM09-03 ON CELL
Front Camera (8M)	CAMERA MODULE 8M AF (SonyIMX319, XPT 85B-BC28-SU,KT F6518)	
Rear Camera (12+16M)	DUAL CAMERA MODULE 12M+16M/SEMCO/MOMDM82PG3A V0.0	
Battery	ZS551KL BAT/ATL POLY/C11P1701/SMP/PS414997/1S1P/3.85V/13.8WH	

SKU MB	SKU3	SKU4
DDR4X	4G/ Hynix	6G/ Hynix
UFS 2.1	64G/ Toshiba	64G/ Samsung
CPU	MSM-8998-1-885MPSP-TR-02-0-AB	
TP Module	TIANMA//TA055VVHM09-03 ON CELL	TIANMA/TA055VVHM08-00 ON CELL
Front Camera (8M)	CAMERA MODULE 8M AF (SonyIMX319, XPT 85B-BC28-SU,KT F6518)	
Rear Camera (12+16M)	DUAL CAMERA MODULE 12M+16M/SEMCO/MOMDM82PG3A V0.0	
Battery	ZS551KL BAT/ATL POLY/C11P1701/SMP/PS414997/1S1P/3.85V/13.8WH	

SKU MB	SKU5	SKU6
DDR4X	6G Hynix	6G Hynix
UFS 2.1	128G Toshiba	UFS 2.0 64G Toshiba
CPU	MSM-8998-1-885MPSP-TR-02-0-AB	
TP Module	TIANMA/TA055VVHM09-05 ON CELL	
Front Camera (8M)	CAMERA MODULE 8M AF (SonyIMX319, XPT 85B-BC28-SU,KT F6518)	
Rear Camera (12+16M)	DUAL CAMERA MODULE 12M+16M/SEMCO/MOMDM82PG3A V0.0	
Battery	ZS551KL BAT/ATL POLY/C11P1701/SMP/PS414997/1S1P/3.85V/13.8WH	

1.4 Modification of EUT

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

1.5 Testing Location

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

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

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

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

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

1.6 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

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

2.2 Test Mode

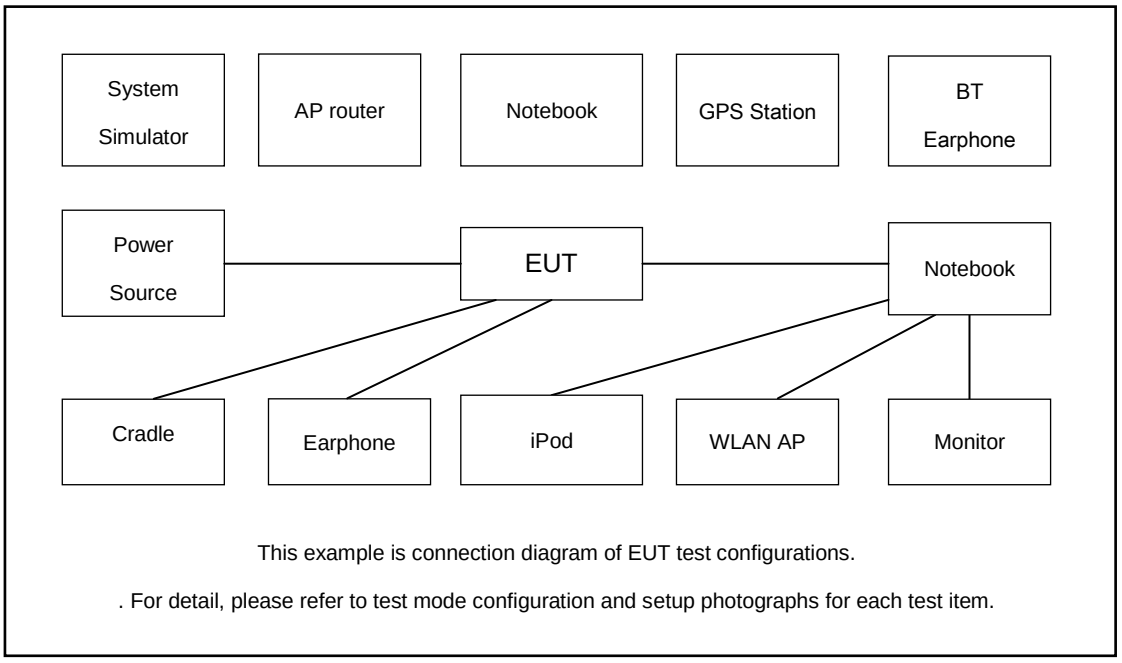
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

MIMO Antenna

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

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + EUT (eMMC) USB Data Link to Notebook + SD (Play MP3) + Earphone + USB Cable 1
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
4.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
5.	Notebook	DELL	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	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
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, “QRCT” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

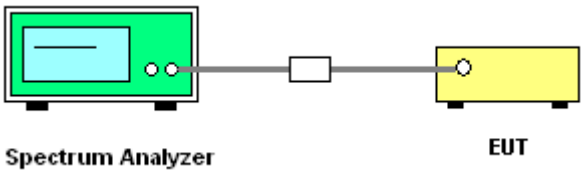
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

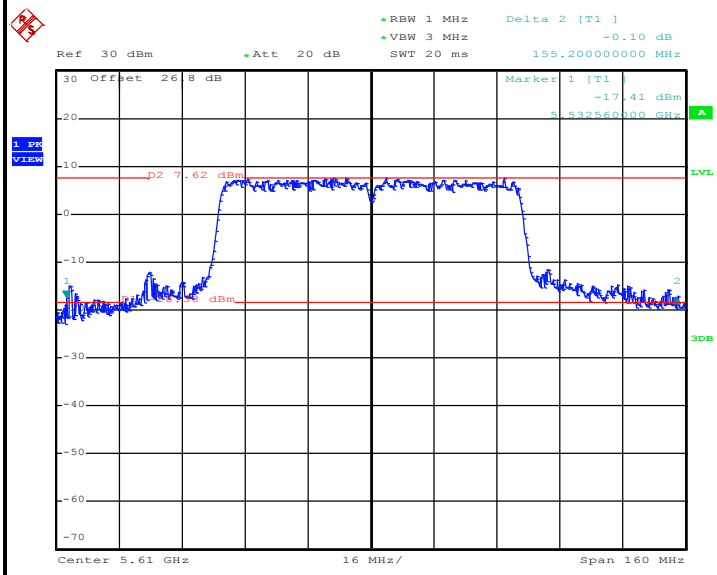
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



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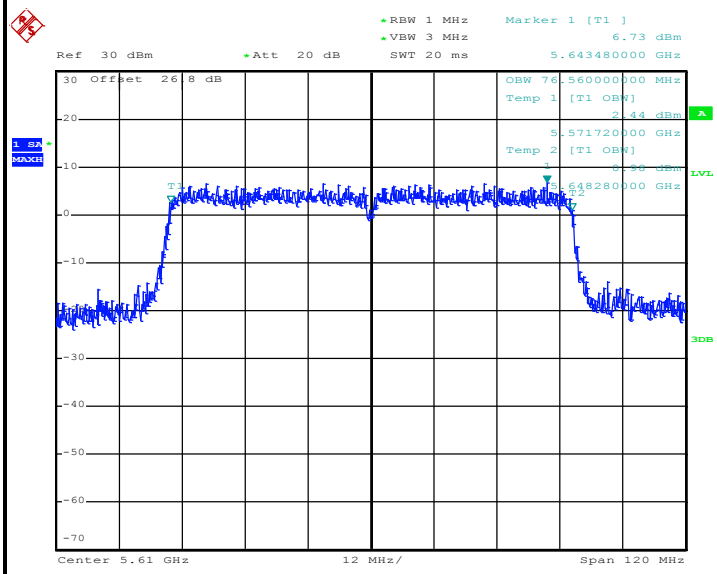
Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

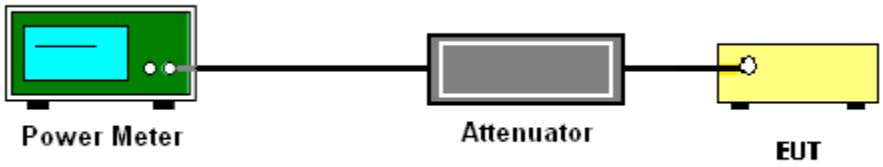
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 for CDD modes.

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

For normal channel:



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

 # Method SA-2 #

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

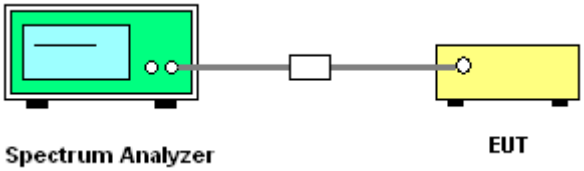
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 2 Span / RBW.
   - Sweep time = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.

3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

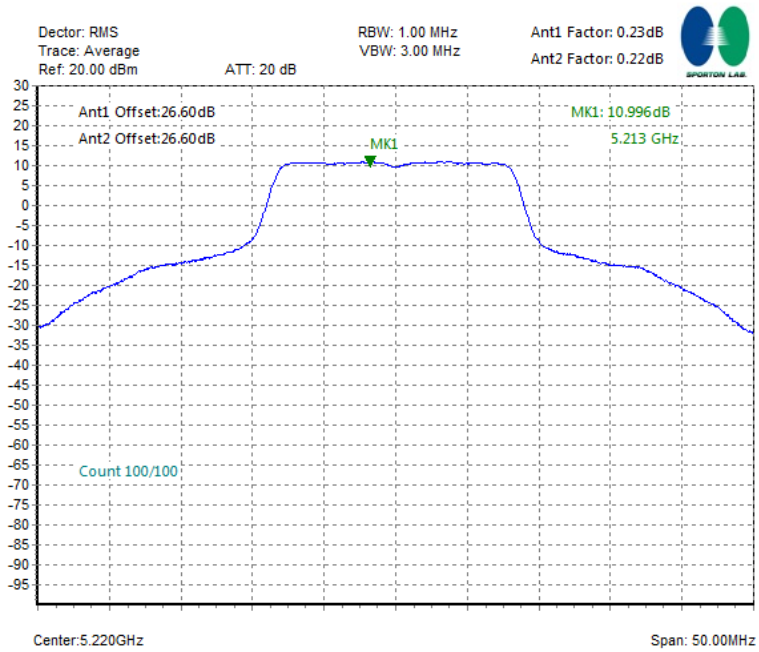
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

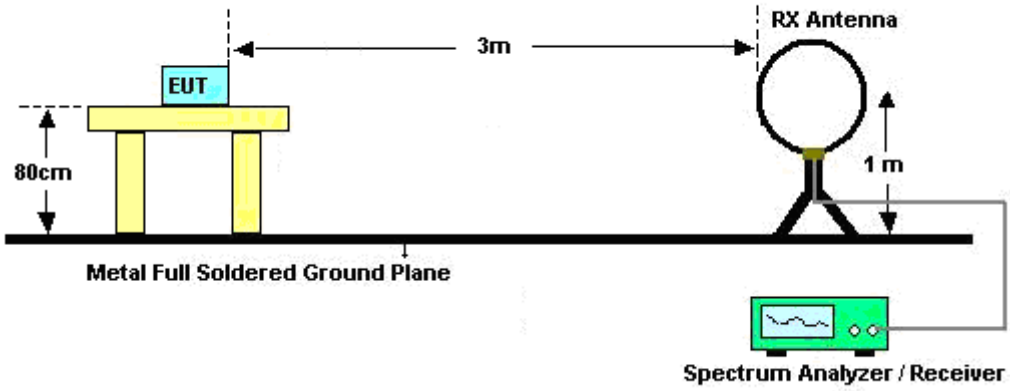
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

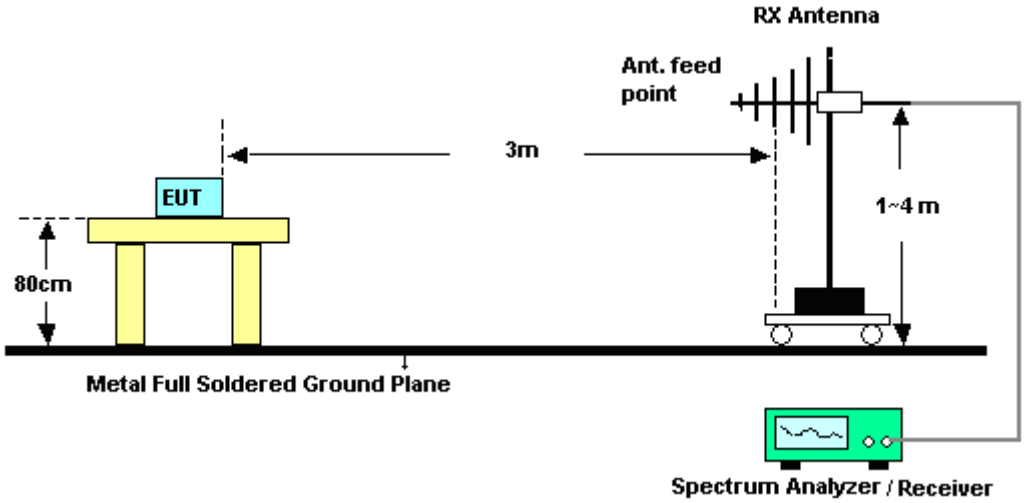
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

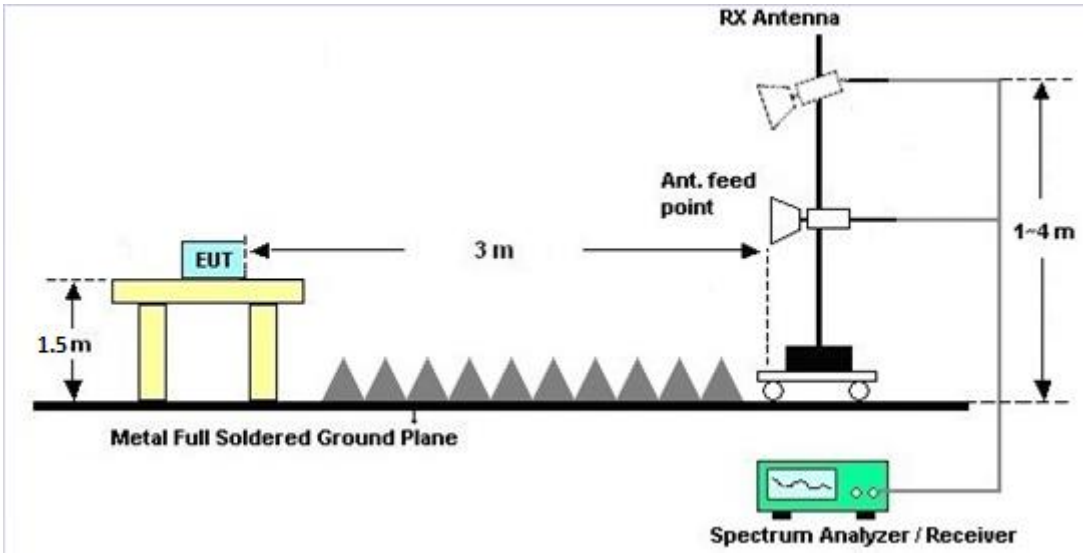
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

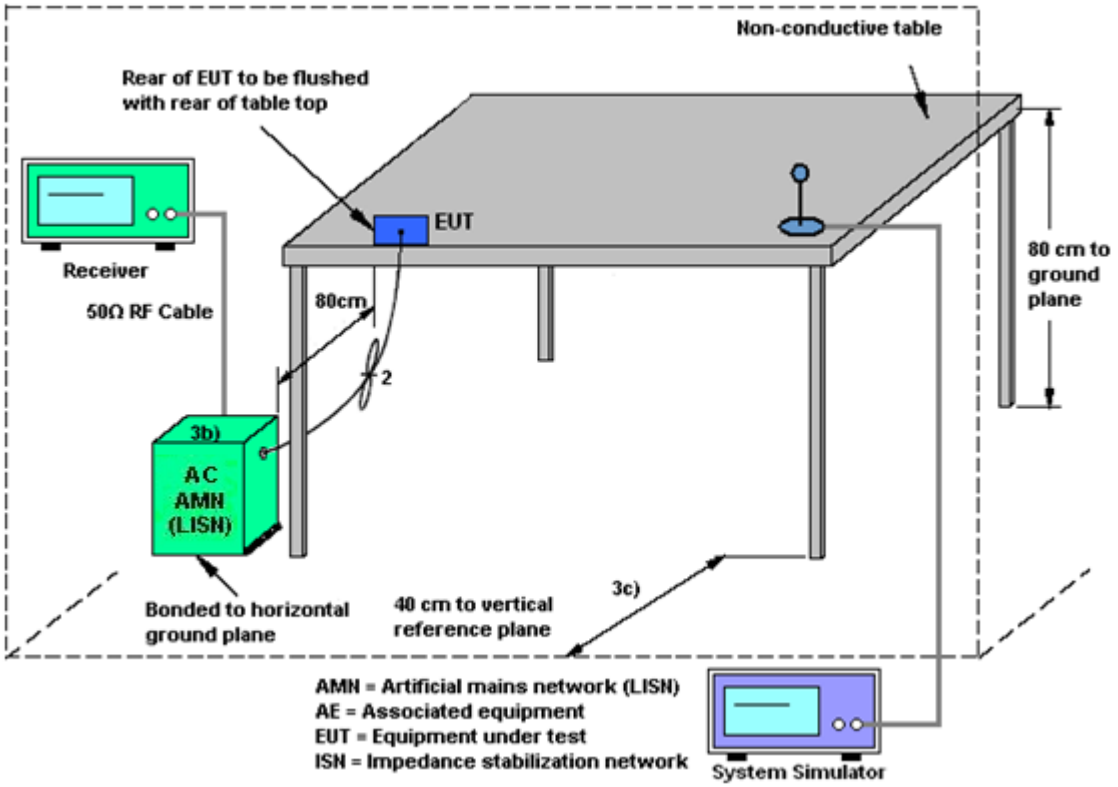
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

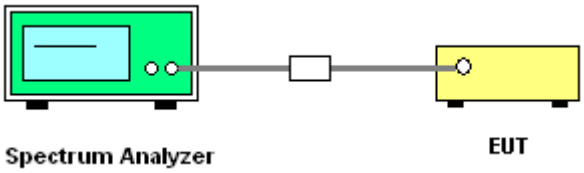
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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

3.8 Antenna Requirements

3.8.1 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.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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

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

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-1.00	-2.40	-1.00	1.34	0.00	0.00
Band II	-1.10	-2.20	-1.10	1.38	0.00	0.00
Band III	0.30	-1.40	0.30	2.50	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Jul. 06, 2017~ Jul. 26, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Jul. 06, 2017~ Jul. 26, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 25, 2016	Jul. 06, 2017~ Jul. 26, 2017	Nov. 24, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Jul. 06, 2017~ Jul. 26, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Jul. 06, 2017~ Jul. 26, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec. 01. 2016	Jul. 06, 2017~ Jul. 26, 2017	Nov. 30, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 16, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Jun. 16, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Jun. 16, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Jun. 16, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Jun. 17, 2017~ Jun. 25, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 15, 2016	Jun. 17, 2017~ Jun. 25, 2017	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 07, 2016	Jun. 17, 2017~ Jun. 25, 2017	Oct. 06, 2017	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Jun. 17, 2017~ Jun. 25, 2017	Oct. 19, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Jun. 17, 2017~ Jun. 25, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 12, 2016	Jun. 17, 2017~ Jun. 25, 2017	Oct. 11, 2017	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 17, 2017~ Jun. 25, 2017	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 17, 2017~ Jun. 25, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 17, 2017~ Jun. 25, 2017	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800	2025787	1GHz~18GHz	Feb. 13, 2017	Jun. 17, 2017~ Jun. 25, 2017	Feb. 12, 2018	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA 1840-35-HG	1887435	18GHz ~ 40GHz	Oct. 13, 2016	Jun. 17, 2017~ Jun. 25 , 2017	Oct. 12, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 08, 2016	Jun. 17, 2017~ Jun. 25, 2017	Nov. 07, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Jun. 17, 2017~ Jun. 25, 2017	Jan. 11, 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))	2.70

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.20

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.50

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.20

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2017/7/6~2017/7/26	Relative Humidity:	51~54	%

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TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	18.30	18.80	37.65	39.30	-		22.62			
11a	6Mbps	2	44	5220	18.70	20.40	38.55	42.90	-		22.72			
11a	6Mbps	2	48	5240	18.50	20.40	38.10	42.00	-		22.67			
HT20	MCS0	2	36	5180	19.75	20.15	42.75	43.40	-		22.96			
HT20	MCS0	2	44	5220	19.60	20.60	42.60	44.30	-		22.92			
HT20	MCS0	2	48	5240	20.45	25.25	44.40	46.70	-		23.01			
HT40	MCS0	2	38	5190	36.90	37.10	65.16	55.80	-		23.01			
HT40	MCS0	2	46	5230	38.20	39.00	80.93	81.54	-		23.01			
VHT80	MCS0	2	42	5210	76.32	76.20	109.12	129.80	-		23.01			

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TEST RESULTS DATA
Average Power Table

FCC Band I															
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	36	5180	0.26	0.23	18.56	18.81		24.00	24.00	-1.00	-2.40		Pass
11a	6Mbps	1	44	5220	0.26	0.23	18.96	19.41		24.00	24.00	-1.00	-2.40		Pass
11a	6Mbps	1	48	5240	0.26	0.23	18.97	19.45		24.00	24.00	-1.00	-2.40		Pass
HT20	MCS0	1	36	5180	0.26	0.26	18.56	18.64		24.00	24.00	-1.00	-2.40		Pass
HT20	MCS0	1	44	5220	0.26	0.26	18.37	18.79		24.00	24.00	-1.00	-2.40		Pass
HT20	MCS0	1	48	5240	0.26	0.26	19.38	19.74		24.00	24.00	-1.00	-2.40		Pass
HT40	MCS0	1	38	5190	0.50	0.44	17.25	17.21		24.00	24.00	-1.00	-2.40		Pass
HT40	MCS0	1	46	5230	0.50	0.44	19.52	18.87		24.00	24.00	-1.00	-2.40		Pass
VHT20	MCS0	1	36	5180	0.24	0.24	18.53	18.62		24.00	24.00	-1.00	-2.40		Pass
VHT20	MCS0	1	44	5220	0.24	0.24	18.34	18.72		24.00	24.00	-1.00	-2.40		Pass
VHT20	MCS0	1	48	5240	0.24	0.24	19.26	19.57		24.00	24.00	-1.00	-2.40		Pass
VHT40	MCS0	1	38	5190	0.42	0.49	17.15	17.15		24.00	24.00	-1.00	-2.40		Pass
VHT40	MCS0	1	46	5230	0.42	0.49	18.94	19.14		24.00	24.00	-1.00	-2.40		Pass
VHT80	MCS0	1	42	5210	0.67	0.60	15.64	16.29		24.00	24.00	-1.00	-2.40		Pass
11a	6Mbps	2	36	5180	0.23	0.22	18.58	18.82	21.71	24.00		-1.00			Pass
11a	6Mbps	2	44	5220	0.23	0.22	19.00	19.42	22.22	24.00		-1.00			Pass
11a	6Mbps	2	48	5240	0.23	0.22	19.02	19.47	22.26	24.00		-1.00			Pass
HT20	MCS0	2	36	5180	0.26	0.24	18.73	18.68	21.72	24.00		-1.00			Pass
HT20	MCS0	2	44	5220	0.26	0.24	18.56	18.84	21.71	24.00		-1.00			Pass
HT20	MCS0	2	48	5240	0.26	0.24	19.51	19.91	22.73	24.00		-1.00			Pass
HT40	MCS0	2	38	5190	0.44	0.47	17.29	17.22	20.27	24.00		-1.00			Pass
HT40	MCS0	2	46	5230	0.44	0.47	19.55	19.16	22.37	24.00		-1.00			Pass
VHT20	MCS0	2	36	5180	0.24	0.24	18.72	18.66	21.70	24.00		-1.00			Pass
VHT20	MCS0	2	44	5220	0.24	0.24	18.62	18.74	21.69	24.00		-1.00			Pass
VHT20	MCS0	2	48	5240	0.24	0.24	19.50	19.89	22.71	24.00		-1.00			Pass
VHT40	MCS0	2	38	5190	0.47	0.45	17.28	17.17	20.24	24.00		-1.00			Pass
VHT40	MCS0	2	46	5230	0.47	0.45	19.05	19.15	22.11	24.00		-1.00			Pass
VHT80	MCS0	2	42	5210	0.67	0.62	15.69	16.44	19.09	24.00		-1.00			Pass

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TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.23	0.22			10.95	11.00		1.34			Pass
11a	6Mbps	2	44	5220	0.23	0.22			11.00	11.00		1.34			Pass
11a	6Mbps	2	48	5240	0.23	0.22			10.72	11.00		1.34			Pass
HT20	MCS0	2	36	5180	0.26	0.24			10.41	11.00		1.34			Pass
HT20	MCS0	2	44	5220	0.26	0.24			10.01	11.00		1.34			Pass
HT20	MCS0	2	48	5240	0.26	0.24			10.61	11.00		1.34			Pass
HT40	MCS0	2	38	5190	0.44	0.47			5.82	11.00		1.34			Pass
HT40	MCS0	2	46	5230	0.44	0.47			7.46	11.00		1.34			Pass
VHT80	MCS0	2	42	5210	0.67	0.62			1.50	11.00		1.34			Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band II																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	19.15	22.25	38.85	43.65	23.82		29.82		23.98		
11a	6Mbps	2	60	5300	19.35	19.25	38.70	39.05	23.84		29.84		23.98		
11a	6Mbps	2	64	5320	18.55	18.75	38.20	37.50	23.68		29.68		23.98		
HT20	MCS0	2	52	5260	19.75	23.65	43.70	46.20	23.96		29.96		23.98		
HT20	MCS0	2	60	5300	19.75	23.95	43.60	46.60	23.96		29.96		23.98		
HT20	MCS0	2	64	5320	19.35	20.70	38.95	43.90	23.87		29.87		23.98		
HT40	MCS0	2	54	5270	37.40	39.90	76.23	81.00	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	37.00	37.70	67.06	80.01	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.20	76.32	102.40	151.68	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.26	0.23	19.31	19.71				-1.10	-2.20	30	Pass
11a	6Mbps	1	60	5300	0.26	0.23	19.42	19.89				-1.10	-2.20	30	Pass
11a	6Mbps	1	64	5320	0.26	0.23	18.78	19.05				-1.10	-2.20	30	Pass
HT20	MCS0	1	52	5260	0.26	0.26	18.85	19.27				-1.10	-2.20	30	Pass
HT20	MCS0	1	60	5300	0.26	0.26	19.03	19.29				-1.10	-2.20	30	Pass
HT20	MCS0	1	64	5320	0.26	0.26	18.20	18.53				-1.10	-2.20	30	Pass
HT40	MCS0	1	54	5270	0.50	0.44	19.06	18.85				-1.10	-2.20	30	Pass
HT40	MCS0	1	62	5310	0.50	0.44	17.74	18.09				-1.10	-2.20	30	Pass
VHT20	MCS0	1	52	5260	0.24	0.24	18.82	19.08				-1.10	-2.20	30	Pass
VHT20	MCS0	1	60	5300	0.24	0.24	18.98	19.26				-1.10	-2.20	30	Pass
VHT20	MCS0	1	64	5320	0.24	0.24	18.17	18.50				-1.10	-2.20	30	Pass
VHT40	MCS0	1	54	5270	0.42	0.49	18.92	18.98				-1.10	-2.20	30	Pass
VHT40	MCS0	1	62	5310	0.42	0.49	17.60	18.02				-1.10	-2.20	30	Pass
VHT80	MCS0	1	58	5290	0.67	0.60	15.90	16.57				-1.10	-2.20	30	Pass
11a	6Mbps	2	52	5260	0.23	0.22	19.33	19.72	22.54	23.98		-1.10		30	Pass
11a	6Mbps	2	60	5300	0.23	0.22	19.45	19.92	22.70	23.98		-1.10		30	Pass
11a	6Mbps	2	64	5320	0.23	0.22	18.80	19.07	21.95	23.98		-1.10		30	Pass
HT20	MCS0	2	52	5260	0.26	0.24	18.91	19.30	22.12	23.98		-1.10		30	Pass
HT20	MCS0	2	60	5300	0.26	0.24	19.06	19.34	22.21	23.98		-1.10		30	Pass
HT20	MCS0	2	64	5320	0.26	0.24	18.26	18.58	21.44	23.98		-1.10		30	Pass
HT40	MCS0	2	54	5270	0.44	0.47	19.09	18.94	22.03	23.98		-1.10		30	Pass
HT40	MCS0	2	62	5310	0.44	0.47	17.75	18.11	20.95	23.98		-1.10		30	Pass
VHT20	MCS0	2	52	5260	0.24	0.24	19.08	19.09	22.10	23.98		-1.10		30	Pass
VHT20	MCS0	2	60	5300	0.24	0.24	18.99	19.34	22.18	23.98		-1.10		30	Pass
VHT20	MCS0	2	64	5320	0.24	0.24	18.24	18.54	21.40	23.98		-1.10		30	Pass
VHT40	MCS0	2	54	5270	0.47	0.45	18.93	19.08	22.02	23.98		-1.10		30	Pass
VHT40	MCS0	2	62	5310	0.47	0.45	17.80	18.05	20.94	23.98		-1.10		30	Pass
VHT80	MCS0	2	58	5290	0.67	0.62	15.94	16.62	19.31	23.98		-1.10		30	Pass

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TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.23	0.22			10.81	11.00		1.38			Pass
11a	6Mbps	2	60	5300	0.23	0.22			10.99	11.00		1.38			Pass
11a	6Mbps	2	64	5320	0.23	0.22			10.32	11.00		1.38			Pass
HT20	MCS0	2	52	5260	0.26	0.24			10.27	11.00		1.38			Pass
HT20	MCS0	2	60	5300	0.26	0.24			10.34	11.00		1.38			Pass
HT20	MCS0	2	64	5320	0.26	0.24			9.79	11.00		1.38			Pass
HT40	MCS0	2	54	5270	0.44	0.47			6.97	11.00		1.38			Pass
HT40	MCS0	2	62	5310	0.44	0.47			5.91	11.00		1.38			Pass
VHT80	MCS0	2	58	5290	0.67	0.62			1.71	11.00		1.38			Pass

Report Number : FR740840E

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	19.85	24.60	41.20	43.70	23.98		29.98		23.98		
11a	6Mbps	2	116	5580	19.30	23.90	40.10	43.45	23.86		29.86		23.98		
11a	6Mbps	2	140	5700	18.70	20.20	38.75	40.60	23.72		29.72		23.98		
11a	6Mbps	2	144	5720	30.00	36.70	45.65	64.85	23.98		30.00		23.98		
HT20	MCS0	2	100	5500	20.25	24.70	44.60	47.05	23.98		30.00		23.98		
HT20	MCS0	2	116	5580	20.50	26.90	43.90	47.50	23.98		30.00		23.98		
HT20	MCS0	2	140	5700	20.15	23.45	43.75	47.30	23.98		30.00		23.98		
HT20	MCS0	2	144	5720	19.85	22.15	43.35	44.70	23.98		29.98		23.98		
HT40	MCS0	2	102	5510	37.40	38.60	74.45	84.06	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	37.90	47.30	80.91	85.79	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	38.90	43.90	80.37	82.35	23.98		30.00		23.98		
HT40	MCS0	2	142	5710	37.20	37.60	69.86	75.15	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	76.20	76.32	129.76	153.65	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	76.32	76.56	129.92	155.20	23.98		30.00		23.98		
VHT80	MCS0	2	138	5690	76.32	76.56	142.42	154.88	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.26	0.23	19.49	18.87				0.30	-1.40	30	Pass
11a	6Mbps	1	116	5580	0.26	0.23	18.81	18.30				0.30	-1.40	30	Pass
11a	6Mbps	1	140	5700	0.26	0.23	17.30	17.03				0.30	-1.40	30	Pass
11a	6Mbps	1	144	5720	0.26	0.23	19.83	19.63				0.30	-1.40	30	Pass
HT20	MCS0	1	100	5500	0.26	0.26	19.20	18.73				0.30	-1.40	30	Pass
HT20	MCS0	1	116	5580	0.26	0.26	18.96	18.30				0.30	-1.40	30	Pass
HT20	MCS0	1	140	5700	0.26	0.26	17.90	17.45				0.30	-1.40	30	Pass
HT20	MCS0	1	144	5720	0.26	0.26	17.72	17.08				0.30	-1.40	30	Pass
HT40	MCS0	1	102	5510	0.50	0.44	18.50	18.30				0.30	-1.40	30	Pass
HT40	MCS0	1	110	5550	0.50	0.44	19.00	18.78				0.30	-1.40	30	Pass
HT40	MCS0	1	134	5670	0.50	0.44	18.47	17.39				0.30	-1.40	30	Pass
HT40	MCS0	1	142	5710	0.50	0.44	16.31	15.76				0.30	-1.40	30	Pass
VHT20	MCS0	1	100	5500	0.24	0.24	19.17	18.69				0.30	-1.40	30	Pass
VHT20	MCS0	1	116	5580	0.24	0.24	18.86	18.29				0.30	-1.40	30	Pass
VHT20	MCS0	1	140	5700	0.24	0.24	17.82	17.44				0.30	-1.40	30	Pass
VHT20	MCS0	1	144	5720	0.24	0.24	17.54	17.07				0.30	-1.40	30	Pass
VHT40	MCS0	1	102	5510	0.42	0.49	18.32	18.24				0.30	-1.40	30	Pass
VHT40	MCS0	1	110	5550	0.42	0.49	19.17	18.76				0.30	-1.40	30	Pass
VHT40	MCS0	1	134	5670	0.42	0.49	18.05	17.41				0.30	-1.40	30	Pass
VHT40	MCS0	1	142	5710	0.42	0.49	16.35	15.74				0.30	-1.40	30	Pass
VHT80	MCS0	1	106	5530	0.67	0.60	16.24	16.20				0.30	-1.40	30	Pass
VHT80	MCS0	1	122	5610	0.67	0.60	16.30	16.00				0.30	-1.40	30	Pass
VHT80	MCS0	1	138	5690	0.67	0.60	16.03	15.51				0.30	-1.40	30	Pass
11a	6Mbps	2	100	5500	0.23	0.22	19.66	19.10	22.40	23.98		0.30		30	Pass
11a	6Mbps	2	116	5580	0.23	0.22	18.83	18.32	21.59	23.98		0.30		30	Pass
11a	6Mbps	2	140	5700	0.23	0.22	17.33	17.06	20.21	23.98		0.30		30	Pass
11a	6Mbps	2	144	5720	0.23	0.22	19.96	19.69	22.84	23.98		0.30		30	Pass
HT20	MCS0	2	100	5500	0.26	0.24	19.22	18.84	22.05	23.98		0.30		30	Pass
HT20	MCS0	2	116	5580	0.26	0.24	19.01	18.34	21.70	23.98		0.30		30	Pass
HT20	MCS0	2	140	5700	0.26	0.24	17.93	17.49	20.73	23.98		0.30		30	Pass
HT20	MCS0	2	144	5720	0.26	0.24	17.74	17.11	20.45	23.98		0.30		30	Pass
HT40	MCS0	2	102	5510	0.44	0.47	18.53	18.31	21.43	23.98		0.30		30	Pass
HT40	MCS0	2	110	5550	0.44	0.47	19.34	18.84	22.11	23.98		0.30		30	Pass
HT40	MCS0	2	134	5670	0.44	0.47	18.51	17.64	21.11	23.98		0.30		30	Pass
HT40	MCS0	2	142	5710	0.44	0.47	16.48	15.88	19.20	23.98		0.30		30	Pass
VHT20	MCS0	2	100	5500	0.24	0.24	19.19	18.83	22.02	23.98		0.30		30	Pass
VHT20	MCS0	2	116	5580	0.24	0.24	18.87	18.44	21.67	23.98		0.30		30	Pass
VHT20	MCS0	2	140	5700	0.24	0.24	17.84	17.54	20.70	23.98		0.30		30	Pass
VHT20	MCS0	2	144	5720	0.24	0.24	17.59	17.20	20.41	23.98		0.30		30	Pass
VHT40	MCS0	2	102	5510	0.47	0.45	18.47	18.26	21.38	23.98		0.30		30	Pass
VHT40	MCS0	2	110	5550	0.47	0.45	19.29	18.83	22.08	23.98		0.30		30	Pass
VHT40	MCS0	2	134	5670	0.47	0.45	18.32	17.63	21.00	23.98		0.30		30	Pass
VHT40	MCS0	2	142	5710	0.47	0.45	16.38	15.86	19.14	23.98		0.30		30	Pass
VHT80	MCS0	2	106	5530	0.67	0.62	16.27	16.27	19.28	23.98		0.30		30	Pass
VHT80	MCS0	2	122	5610	0.67	0.62	16.38	16.10	19.25	23.98		0.30		30	Pass
VHT80	MCS0	2	138	5690	0.67	0.62	16.10	15.62	18.88	23.98		0.30		30	Pass

Report Number : FR740840E

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.23	0.22			10.99	11.00		2.50			Pass
11a	6Mbps	2	116	5580	0.23	0.22			10.44	11.00		2.50			Pass
11a	6Mbps	2	140	5700	0.23	0.22			8.36	11.00		2.50			Pass
11a	6Mbps	2	144	5720	0.23	0.22			10.82	11.00		2.50			Pass
HT20	MCS0	2	100	5500	0.26	0.24			10.53	11.00		2.50			Pass
HT20	MCS0	2	116	5580	0.26	0.24			10.43	11.00		2.50			Pass
HT20	MCS0	2	140	5700	0.26	0.24			8.56	11.00		2.50			Pass
HT20	MCS0	2	144	5720	0.26	0.24			8.26	11.00		2.50			Pass
HT40	MCS0	2	102	5510	0.44	0.47			6.82	11.00		2.50			Pass
HT40	MCS0	2	110	5550	0.44	0.47			7.81	11.00		2.50			Pass
HT40	MCS0	2	134	5670	0.44	0.47			6.11	11.00		2.50			Pass
HT40	MCS0	2	142	5710	0.44	0.47			3.89	11.00		2.50			Pass
VHT80	MCS0	2	106	5530	0.67	0.62			2.25	11.00		2.50			Pass
VHT80	MCS0	2	122	5610	0.67	0.62			1.71	11.00		2.50			Pass
VHT80	MCS0	2	138	5690	0.67	0.62			0.68	11.00		2.50			Pass

Report Number : FR740840E

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	50	3.85	
11a	6Mbps	1	36	5180	5180.050	0.050	9.65	-30	3.85	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.2	
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	20	3.6	
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	20	3.85	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	50	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	4.2	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	3.6	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	3.85	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	50	3.85	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	3.85	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	4.2	
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	20	3.6	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	3.85	

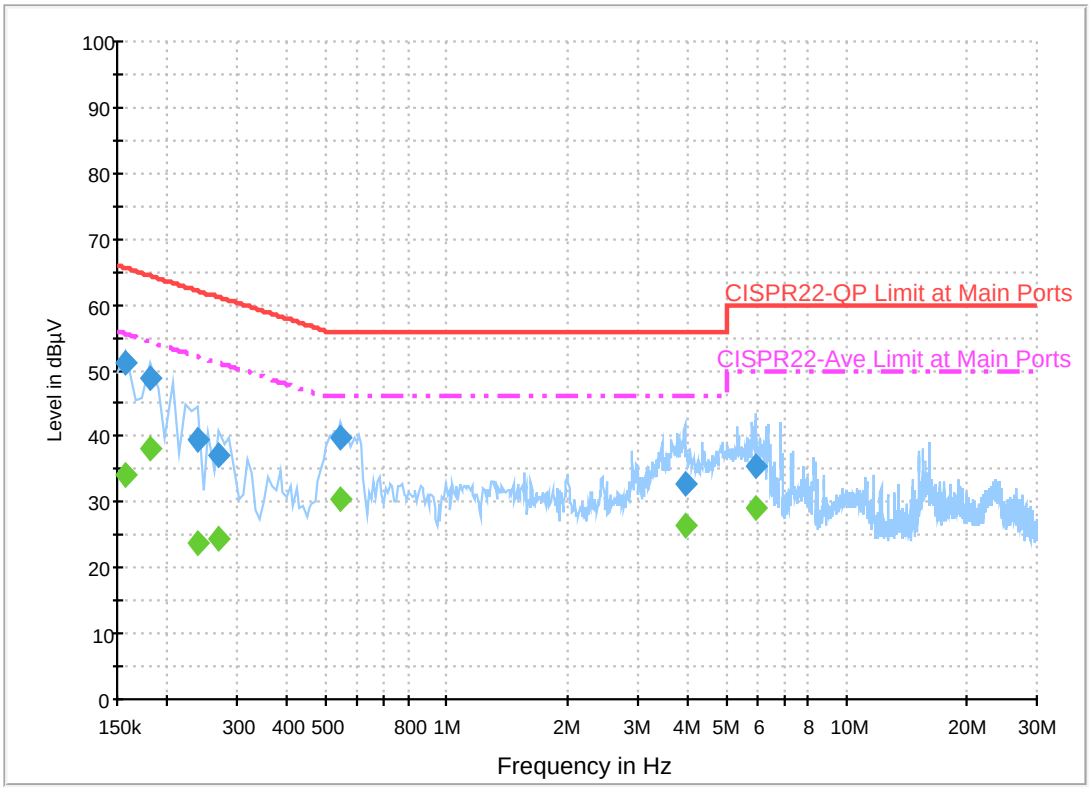
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	**Temperature :**	21~25℃
		Relative Humidity :	51~55%

EUT Information

Report NO :	740840
Test Mode :	Mode 1
Test Voltage :	Power Form System
Phase :	Line

ENV216 Auto Test-L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	51.1	Off	L1	19.5	14.5	65.6
0.182000	48.9	Off	L1	19.5	15.5	64.4
0.238000	39.3	Off	L1	19.5	22.9	62.2
0.270000	37.0	Off	L1	19.5	24.1	61.1
0.542000	39.7	Off	L1	19.5	16.3	56.0
3.942000	32.6	Off	L1	19.6	23.4	56.0
5.966000	35.5	Off	L1	19.6	24.5	60.0

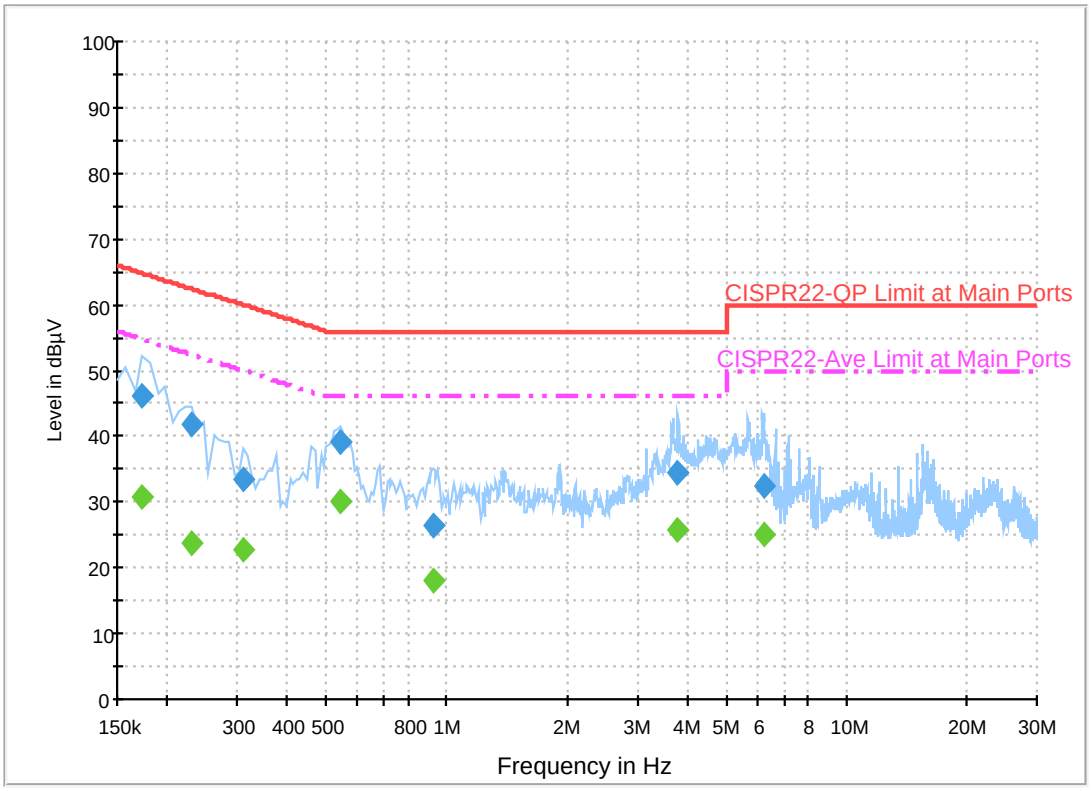
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	34.0	Off	L1	19.5	21.6	55.6
0.182000	38.1	Off	L1	19.5	16.3	54.4
0.238000	23.8	Off	L1	19.5	28.4	52.2
0.270000	24.5	Off	L1	19.5	26.6	51.1
0.542000	30.5	Off	L1	19.5	15.5	46.0
3.942000	26.5	Off	L1	19.6	19.5	46.0
5.966000	29.1	Off	L1	19.6	20.9	50.0

EUT Information

Report NO :	740840
Test Mode :	Mode 1
Test Voltage :	Power Form System
Phase :	Neutral

ENV216 Auto Test-N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	46.2	Off	N	19.5	18.6	64.8
0.230000	41.7	Off	N	19.5	20.7	62.4
0.310000	33.5	Off	N	19.5	26.5	60.0
0.542000	39.2	Off	N	19.5	16.8	56.0
0.926000	26.5	Off	N	19.5	29.5	56.0
3.798000	34.3	Off	N	19.6	21.7	56.0
6.222000	32.5	Off	N	19.6	27.5	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	30.7	Off	N	19.5	24.1	54.8
0.230000	23.7	Off	N	19.5	28.7	52.4
0.310000	22.8	Off	N	19.5	27.2	50.0
0.542000	30.3	Off	N	19.5	15.7	46.0
0.926000	18.0	Off	N	19.5	28.0	46.0
3.798000	25.8	Off	N	19.6	20.2	46.0
6.222000	25.0	Off	N	19.6	25.0	50.0

Appendix C. Radiated Spurious Emission

Test Engineer :	J.C. Liang, Jacky Hung and KenWu	Temperature :	21~24°C
		Relative Humidity :	51~55%

Band 1 - 5150~5250MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5149.76	59.68	-14.32	74	51.61	32.05	9.05	33.03	239	61	P	H
		5150	48.77	-5.23	54	40.7	32.05	9.05	33.03	239	61	A	H
	*	5180	108.16	-	-	100.03	32.08	9.08	33.03	239	61	P	H
	*	5180	101.03	-	-	92.9	32.08	9.08	33.03	239	61	A	H
													H
													H
		5150	55.48	-18.52	74	47.41	32.05	9.05	33.03	100	83	P	V
		5150	48.42	-5.58	54	40.35	32.05	9.05	33.03	100	83	A	V
	*	5180	106.79	-	-	98.66	32.08	9.08	33.03	100	83	P	V
	*	5180	99.88	-	-	91.75	32.08	9.08	33.03	100	83	A	V
													V
													V
802.11a CH 44 5220MHz		5100.36	49.36	-24.64	74	41.4	32	9	33.04	238	62	P	H
		5135.46	41.05	-12.95	54	33.02	32.03	9.03	33.03	238	62	A	H
	*	5220	107.07	-	-	98.88	32.12	9.1	33.03	238	62	P	H
	*	5220	100.7	-	-	92.51	32.12	9.1	33.03	238	62	A	H
		5392.56	49.76	-24.24	74	41.29	32.28	9.21	33.02	238	62	P	H
		5452.56	40.66	-13.34	54	32.04	32.35	9.29	33.02	238	62	A	H
		5141.44	49.59	-24.41	74	41.54	32.05	9.03	33.03	100	82	P	V
		5102.96	40.96	-13.04	54	33	32	9	33.04	100	82	A	V
	*	5220	106.16	-	-	97.97	32.12	9.1	33.03	100	82	P	V
	*	5220	98.92	-	-	90.73	32.12	9.1	33.03	100	82	A	V
		5438.16	49.59	-24.41	74	41.01	32.33	9.27	33.02	100	82	P	V
		5364.48	40.15	-13.85	54	31.71	32.27	9.2	33.03	100	82	A	V

802.11a CH 48 5240MHz		5031.98	50.43	-23.57	74	42.59	31.93	8.95	33.04	232	62	P	H
		5100.1	40.89	-13.11	54	32.93	32	9	33.04	232	62	A	H
	*	5240	109.7	-	-	101.49	32.13	9.11	33.03	232	62	P	H
	*	5240	101.65	-	-	93.44	32.13	9.11	33.03	232	62	A	H
		5376	49.4	-24.6	74	40.95	32.27	9.2	33.02	232	62	P	H
		5452.8	40.64	-13.36	54	32.02	32.35	9.29	33.02	232	62	A	H
		5032.24	49.53	-24.47	74	41.69	31.93	8.95	33.04	100	82	P	V
		5074.1	40.78	-13.22	54	32.85	31.98	8.99	33.04	100	82	A	V
	*	5240	107.33	-	-	99.12	32.13	9.11	33.03	100	82	P	V
	*	5240	98.81	-	-	90.6	32.13	9.11	33.03	100	82	A	V
		5425.92	49.01	-24.99	74	40.47	32.32	9.24	33.02	100	82	P	V
		5458.08	40.22	-13.78	54	31.6	32.35	9.29	33.02	100	82	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	59.79	-8.41	68.2	71.32	38.41	14.95	65.2	100	0	P	H
		15540	61.7	-12.3	74	69.02	37.58	18.69	63.98	211	312	P	H
		15540	49.32	-4.68	54	56.64	37.58	18.69	63.98	211	312	A	H
													H
		10360	58.51	-9.69	68.2	70.35	38.41	14.95	65.2	100	0	P	V
		15540	59.21	-14.79	74	66.53	37.58	18.69	63.98	207	360	P	V
		15540	48.49	-5.51	54	55.81	37.58	18.69	63.98	207	360	A	V
													V
802.11a CH 44 5220MHz		10440	58.52	-9.68	68.2	69.89	38.51	15.01	65.2	100	0	P	H
		15660	62.52	-11.48	74	70.46	37.14	18.81	64.24	200	305	P	H
		15660	49.75	-4.25	54	57.69	37.14	18.81	64.24	200	305	A	H
													H
		10440	57.78	-10.42	68.2	69.46	38.51	15.01	65.2	100	0	P	V
		15660	58.23	-15.77	74	66.17	37.14	18.81	64.24	190	0	P	V
		15660	47.77	-6.23	54	55.71	37.14	18.81	64.24	190	0	A	V
													V
802.11a CH 48 5240MHz		10480	57.82	-10.38	68.2	69.11	38.58	15.02	65.2	100	0	P	H
		15720	62.95	-11.05	74	71.27	36.89	18.85	64.39	191	15	P	H
		15720	48.2	-5.8	54	56.52	36.89	18.85	64.39	191	15	A	H
													H
		10480	56.21	-11.99	68.2	67.81	38.58	15.02	65.2	100	0	P	V
		15720	54.07	-19.93	74	62.39	36.89	18.85	64.39	169	0	P	V
		15720	46.71	-7.29	54	55.03	36.89	18.85	64.39	169	0	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5144.82	58.8	-15.2	74	50.73	32.05	9.05	33.03	232	66	P	H
		5150	48.43	-5.57	54	40.36	32.05	9.05	33.03	232	66	A	H
	*	5180	109.03	-	-	100.9	32.08	9.08	33.03	232	66	P	H
	*	5180	101.1	-	-	92.97	32.08	9.08	33.03	232	66	A	H
													H
													H
		5149.76	57.74	-16.26	74	49.67	32.05	9.05	33.03	181	118	P	V
		5149.5	45.6	-8.4	54	37.53	32.05	9.05	33.03	181	118	A	V
	*	5180	104.3	-	-	96.17	32.08	9.08	33.03	181	118	P	V
	*	5180	96.51	-	-	88.38	32.08	9.08	33.03	181	118	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5132.08	50.05	-23.95	74	42.02	32.03	9.03	33.03	226	67	P	H
		5148.2	41.45	-12.55	54	33.38	32.05	9.05	33.03	226	67	A	H
	*	5220	108.49	-	-	100.3	32.12	9.1	33.03	226	67	P	H
	*	5220	100.78	-	-	92.59	32.12	9.1	33.03	226	67	A	H
		5441.04	48.86	-25.14	74	40.28	32.33	9.27	33.02	226	67	P	H
		5452.8	41.28	-12.72	54	32.66	32.35	9.29	33.02	226	67	A	H
		5081.64	50.27	-23.73	74	42.34	31.98	8.99	33.04	100	106	P	V
		5094.9	41.2	-12.8	54	33.24	32	9	33.04	100	106	A	V
	*	5220	104.63	-	-	96.44	32.12	9.1	33.03	100	106	P	V
	*	5220	97.07	-	-	88.88	32.12	9.1	33.03	100	106	A	V
		5424.96	48.8	-25.2	74	40.26	32.32	9.24	33.02	100	106	P	V
		5458.32	40.37	-13.63	54	31.75	32.35	9.29	33.02	100	106	A	V

802.11n HT20 CH 48 5240MHz		5042.12	50.57	-23.43	74	42.7	31.95	8.96	33.04	228	65	P	H
		5117.78	41.05	-12.95	54	33.05	32.02	9.02	33.04	228	65	A	H
	*	5240	110.58	-	-	102.37	32.13	9.11	33.03	228	65	P	H
	*	5240	102.96	-	-	94.75	32.13	9.11	33.03	228	65	A	H
		5385.6	49.8	-24.2	74	41.33	32.28	9.21	33.02	228	65	P	H
		5452.56	41.32	-12.68	54	32.7	32.35	9.29	33.02	228	65	A	H
		5093.86	50.03	-23.97	74	42.07	32	9	33.04	100	105	P	V
		5051.48	41.02	-12.98	54	33.15	31.95	8.96	33.04	100	105	A	V
	*	5240	106.34	-	-	98.13	32.13	9.11	33.03	100	105	P	V
	*	5240	98.39	-	-	90.18	32.13	9.11	33.03	100	105	A	V
		5431.44	50.52	-23.48	74	41.94	32.33	9.27	33.02	100	105	P	V
		5458.32	40.37	-13.63	54	31.75	32.35	9.29	33.02	100	105	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	56.43	-11.77	68.2	67.96	38.41	14.95	65.2	100	0	P	H
		15540	60.12	-13.88	74	67.44	37.58	18.69	63.98	200	303	P	H
		15540	49.3	-4.7	54	56.62	37.58	18.69	63.98	200	303	A	H
													H
		10360	54.76	-13.44	68.2	66.29	38.41	14.95	65.2	100	0	P	V
		15540	53.88	-20.12	74	61.2	37.58	18.69	63.98	200	5	P	V
		15540	44.61	-9.39	54	51.93	37.58	18.69	63.98	200	5	A	V
													V
802.11n HT20 CH 44 5220MHz		10440	54.28	-13.92	68.2	65.65	38.51	15.01	65.2	100	0	P	H
		15660	60.11	-13.89	74	68.05	37.14	18.81	64.24	200	301	P	H
		15660	49.17	-4.83	54	57.11	37.14	18.81	64.24	200	301	A	H
													H
		10440	54.77	-13.43	68.2	66.45	38.51	15.01	65.2	100	0	P	V
		15660	55.38	-18.62	74	63.32	37.14	18.81	64.24	200	4	P	V
		15660	43.53	-10.47	54	51.47	37.14	18.81	64.24	200	4	A	V
													V
802.11n HT20 CH 48 5240MHz		10480	55.6	-12.6	68.2	66.89	38.58	15.02	65.2	100	0	P	H
		15720	59.12	-14.88	74	67.44	36.89	18.85	64.39	187	25	P	H
		15720	49.43	-4.57	54	57.75	36.89	18.85	64.39	187	25	A	H
													H
		10480	52.7	-15.5	68.2	64.3	38.58	15.02	65.2	100	0	P	V
		15720	54.05	-19.95	74	62.37	36.89	18.85	64.39	191	0	P	V
		15720	44.75	-9.25	54	53.07	36.89	18.85	64.39	191	0	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5149.76	57.84	-16.16	74	49.77	32.05	9.05	33.03	286	32	P	H
		5150	50.73	-3.27	54	42.66	32.05	9.05	33.03	286	32	A	H
	*	5190	100.18	-	-	92.05	32.08	9.08	33.03	286	32	P	H
	*	5190	91.96	-	-	83.83	32.08	9.08	33.03	286	32	A	H
		5424.44	49.75	-24.25	74	41.21	32.32	9.24	33.02	286	32	P	H
		5457.76	40.72	-13.28	54	32.1	32.35	9.29	33.02	286	32	A	H
		5150	60.18	-13.82	74	52.11	32.05	9.05	33.03	100	114	P	V
		5150	50.72	-3.28	54	42.65	32.05	9.05	33.03	100	114	A	V
	*	5190	100.33	-	-	92.2	32.08	9.08	33.03	100	114	P	V
	*	5190	92.09	-	-	83.96	32.08	9.08	33.03	100	114	A	V
		5444.6	49.8	-24.2	74	41.22	32.33	9.27	33.02	100	114	P	V
		5458.32	41.2	-12.8	54	32.58	32.35	9.29	33.02	100	114	A	V
802.11n HT40 CH 46 5230MHz		5147.68	50.93	-23.07	74	42.86	32.05	9.05	33.03	280	33	P	H
		5150	44.45	-9.55	54	36.38	32.05	9.05	33.03	280	33	A	H
	*	5230	104.58	-	-	96.38	32.13	9.1	33.03	280	33	P	H
	*	5230	96.62	-	-	88.42	32.13	9.1	33.03	280	33	A	H
		5403.16	48.93	-25.07	74	40.43	32.3	9.22	33.02	280	33	P	H
		5453	40.9	-13.1	54	32.28	32.35	9.29	33.02	280	33	A	H
		5149.24	51.16	-22.84	74	43.09	32.05	9.05	33.03	211	107	P	V
		5149.5	43.57	-10.43	54	35.5	32.05	9.05	33.03	211	107	A	V
	*	5230	103.54	-	-	95.34	32.13	9.1	33.03	211	107	P	V
	*	5230	95.87	-	-	87.67	32.13	9.1	33.03	211	107	A	V
		5400.92	49.28	-24.72	74	40.78	32.3	9.22	33.02	211	107	P	V
		5355.28	41.05	-12.95	54	32.64	32.25	9.19	33.03	211	107	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	54.99	-13.21	68.2	66.47	38.44	14.97	65.2	100	0	P	H
		15570	47.11	-26.89	74	54.62	37.45	18.71	64.05	100	0	P	H
													H
													H
		10380	52	-16.2	68.2	63.79	38.44	14.97	65.2	100	0	P	V
		15570	46.2	-27.8	74	53.71	37.45	18.71	64.05	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	57.64	-10.56	68.2	68.98	38.53	15.02	65.2	100	0	P	H
		15690	61.38	-12.62	74	69.51	37.02	18.83	64.32	189	14	P	H
		15690	47.94	-6.06	54	56.07	37.02	18.83	64.32	189	14	A	H
													H
		10460	55.23	-12.97	68.2	66.88	38.53	15.02	65.2	100	0	P	V
		15690	55.37	-18.63	74	63.5	37.02	18.83	64.32	173	8	P	V
		15690	45.19	-8.81	54	53.32	37.02	18.83	64.32	173	8	A	V
													V

Remark

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

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5148.72	61.45	-12.55	74	53.38	32.05	9.05	33.03	241	64	P	H
		5149.5	51.19	-2.81	54	43.12	32.05	9.05	33.03	241	64	A	H
	*	5210	99.1	-	-	90.92	32.12	9.09	33.03	241	64	P	H
	*	5210	90.83	-	-	82.65	32.12	9.09	33.03	241	64	A	H
		5412.12	48.58	-25.42	74	40.04	32.32	9.24	33.02	241	64	P	H
		5452.72	41.37	-12.63	54	32.75	32.35	9.29	33.02	241	64	A	H
		5149.5	55.38	-18.62	74	47.31	32.05	9.05	33.03	100	108	P	V
		5147.94	50.09	-3.91	54	42.02	32.05	9.05	33.03	100	108	A	V
	*	5210	95.42	-	-	87.24	32.12	9.09	33.03	100	108	P	V
	*	5210	87.54	-	-	79.36	32.12	9.09	33.03	100	108	A	V
		5442.36	48.52	-25.48	74	39.94	32.33	9.27	33.02	100	108	P	V
		5443.76	40.81	-13.19	54	32.23	32.33	9.27	33.02	100	108	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	47.23	-20.97	68.2	58.65	38.48	14.99	65.2	100	0	P	H
		15630	45.94	-28.06	74	53.8	37.2	18.78	64.2	100	0	P	H
													H
													H
		10420	47.24	-20.96	68.2	58.97	38.48	14.99	65.2	100	0	P	V
		15630	44.82	-29.18	74	52.68	37.2	18.78	64.2	100	0	P	V
													V
													V

Remark

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5122.74	50.33	-23.67	74	42.31	32.03	9.02	33.03	231	61	P	H
		5137.7	40.95	-13.05	54	32.92	32.03	9.03	33.03	231	61	A	H
	*	5260	109.93	-	-	101.66	32.17	9.13	33.03	231	61	P	H
	*	5260	101.28	-	-	93.01	32.17	9.13	33.03	231	61	A	H
		5449.44	48.99	-25.01	74	40.37	32.35	9.29	33.02	231	61	P	H
		5452.56	40.7	-13.3	54	32.08	32.35	9.29	33.02	231	61	A	H
		5077.86	49.27	-24.73	74	41.34	31.98	8.99	33.04	100	83	P	V
		5096.22	40.96	-13.04	54	33	32	9	33.04	100	83	A	V
	*	5260	106.39	-	-	98.12	32.17	9.13	33.03	100	83	P	V
	*	5260	98.75	-	-	90.48	32.17	9.13	33.03	100	83	A	V
		5381.04	49.27	-24.73	74	40.8	32.28	9.21	33.02	100	83	P	V
		5450.88	40.32	-13.68	54	31.7	32.35	9.29	33.02	100	83	A	V
802.11a CH 60 5300MHz		5022.78	49.61	-24.39	74	41.77	31.93	8.95	33.04	233	65	P	H
		5078.54	41	-13	54	33.07	31.98	8.99	33.04	233	65	A	H
	*	5300	109.24	-	-	100.92	32.2	9.15	33.03	233	65	P	H
	*	5300	102.41	-	-	94.09	32.2	9.15	33.03	233	65	A	H
		5388.24	51.47	-22.53	74	43	32.28	9.21	33.02	233	65	P	H
		5350.08	43.33	-10.67	54	34.92	32.25	9.19	33.03	233	65	A	H
		5103.36	50.24	-23.76	74	42.28	32	9	33.04	100	110	P	V
		5072.08	41.2	-12.8	54	33.27	31.98	8.99	33.04	100	110	A	V
	*	5300	106.35	-	-	98.03	32.2	9.15	33.03	100	110	P	V
	*	5300	99.1	-	-	90.78	32.2	9.15	33.03	100	110	A	V
		5374.56	49.61	-24.39	74	41.16	32.27	9.2	33.02	100	110	P	V
		5350.08	41.71	-12.29	54	33.3	32.25	9.19	33.03	100	110	A	V

802.11a CH 64 5320MHz	*	5320	109.04	-	-	100.69	32.22	9.16	33.03	235	70	P	H
	*	5320	101.94	-	-	93.59	32.22	9.16	33.03	235	70	A	H
		5352.96	61.55	-12.45	74	53.14	32.25	9.19	33.03	235	70	P	H
		5352	47.24	-6.76	54	38.83	32.25	9.19	33.03	235	70	A	H
													H
													H
	*	5320	106.53	-	-	98.18	32.22	9.16	33.03	100	109	P	V
	*	5320	98.61	-	-	90.26	32.22	9.16	33.03	100	109	A	V
		5352.48	53.73	-20.27	74	45.32	32.25	9.19	33.03	100	109	P	V
		5352	44.82	-9.18	54	36.41	32.25	9.19	33.03	100	109	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	57.21	-10.99	68.2	68.42	38.62	15.06	65.2	100	0	P	H
		15780	63.41	-10.59	74	72	36.71	18.9	64.51	190	19	P	H
		15780	49.05	-4.95	54	57.64	36.71	18.9	64.51	190	19	A	H
													H
		10520	56.46	-11.74	68.2	67.98	38.62	15.06	65.2	100	0	P	V
		15780	56.3	-17.7	74	64.89	36.71	18.9	64.51	166	0	P	V
		15780	44.74	-9.26	54	53.33	36.71	18.9	64.51	166	0	A	V
													V
802.11a CH 60 5300MHz		10600	59.29	-14.71	74	70.33	38.72	15.11	65.18	100	299	P	H
		10600	49.86	-4.14	54	60.9	38.72	15.11	65.18	100	299	A	H
		15900	60.17	-13.83	74	69.37	36.27	19.02	64.77	185	29	P	H
		15900	49.47	-4.53	54	58.67	36.27	19.02	64.77	185	29	A	H
		10600	56.43	-17.57	74	67.47	38.72	15.11	65.18	262	341	P	V
		10600	48.55	-5.45	54	59.59	38.72	15.11	65.18	262	341	A	V
		15900	52.37	-21.63	74	61.57	36.27	19.02	64.77	211	10	P	V
		15900	42.88	-11.12	54	52.08	36.27	19.02	64.77	211	10	A	V
802.11a CH 64 5320MHz		10640	56.6	-17.4	74	67.55	38.77	15.15	65.17	100	299	P	H
		10640	47.64	-6.36	54	58.59	38.77	15.15	65.17	100	299	A	H
		15960	59.4	-14.6	74	68.98	36.02	19.06	64.92	186	21	P	H
		15960	49.03	-4.97	54	58.61	36.02	19.06	64.92	186	21	A	H
		10640	56.43	-17.57	74	67.38	38.77	15.15	65.17	209	335	P	V
		10640	47.37	-6.63	54	58.32	38.77	15.15	65.17	209	335	A	V
		15960	53.64	-20.36	74	63.22	36.02	19.06	64.92	210	10	P	V
		15960	43.59	-10.41	54	53.17	36.02	19.06	64.92	210	10	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5086.02	49.82	-24.18	74	41.89	31.98	8.99	33.04	228	68	P	H
		5145.52	41.22	-12.78	54	33.15	32.05	9.05	33.03	228	68	A	H
	*	5260	109.42	-	-	101.15	32.17	9.13	33.03	228	68	P	H
	*	5260	100.82	-	-	92.55	32.17	9.13	33.03	228	68	A	H
		5447.76	50.05	-23.95	74	41.45	32.35	9.27	33.02	228	68	P	H
		5452.56	41.32	-12.68	54	32.7	32.35	9.29	33.02	228	68	A	H
		5087.72	50.25	-23.75	74	42.32	31.98	8.99	33.04	188	118	P	V
		5078.54	41.07	-12.93	54	33.14	31.98	8.99	33.04	188	118	A	V
	*	5260	104.8	-	-	96.53	32.17	9.13	33.03	188	118	P	V
	*	5260	97.14	-	-	88.87	32.17	9.13	33.03	188	118	A	V
		5374.08	49.14	-24.86	74	40.69	32.27	9.2	33.02	188	118	P	V
		5441.28	40.35	-13.65	54	31.77	32.33	9.27	33.02	188	118	A	V
802.11n HT20 CH 60 5300MHz		5034.34	49.52	-24.48	74	41.68	31.93	8.95	33.04	242	67	P	H
		5066.3	41.13	-12.87	54	33.23	31.97	8.97	33.04	242	67	A	H
	*	5300	109.64	-	-	101.32	32.2	9.15	33.03	242	67	P	H
	*	5300	102.86	-	-	94.54	32.2	9.15	33.03	242	67	A	H
		5367.6	51.99	-22.01	74	43.55	32.27	9.2	33.03	242	67	P	H
		5350.08	43.74	-10.26	54	35.33	32.25	9.19	33.03	242	67	A	H
		5132.26	49.52	-24.48	74	41.49	32.03	9.03	33.03	100	118	P	V
		5119.34	40.99	-13.01	54	32.98	32.02	9.02	33.03	100	118	A	V
	*	5300	105.24	-	-	96.92	32.2	9.15	33.03	100	118	P	V
	*	5300	97.52	-	-	89.2	32.2	9.15	33.03	100	118	A	V
		5364.72	49.7	-24.3	74	41.26	32.27	9.2	33.03	100	118	P	V
		5351.52	41.14	-12.86	54	32.73	32.25	9.19	33.03	100	118	A	V

	*	5320	109.55	-	-	101.2	32.22	9.16	33.03	232	67	P	H
	*	5320	102.03	-	-	93.68	32.22	9.16	33.03	232	67	A	H
		5351.2	56.07	-17.93	74	47.66	32.25	9.19	33.03	232	67	P	H
		5350.56	47.2	-6.8	54	38.79	32.25	9.19	33.03	232	67	A	H
802.11n													H
HT20													H
CH 64	*	5320	104.33	-	-	95.98	32.22	9.16	33.03	100	118	P	V
5320MHz	*	5320	96.61	-	-	88.26	32.22	9.16	33.03	100	118	A	V
		5350.4	56.32	-17.68	74	47.91	32.25	9.19	33.03	100	118	P	V
		5350.56	44.56	-9.44	54	36.15	32.25	9.19	33.03	100	118	A	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	53.16	-15.04	68.2	64.37	38.62	15.06	65.2	100	0	P	H
		15780	58.67	-15.33	74	67.26	36.71	18.9	64.51	190	25	P	H
		15780	48.84	-5.16	54	57.43	36.71	18.9	64.51	190	25	A	H
													H
		10520	51.21	-16.99	68.2	62.73	38.62	15.06	65.2	100	0	P	V
		15780	54.11	-19.89	74	62.7	36.71	18.9	64.51	170	2	P	V
		15780	42.63	-11.37	54	51.22	36.71	18.9	64.51	170	2	A	V
													V
802.11n HT20 CH 60 5300MHz		10600	58.87	-15.13	74	69.91	38.72	15.11	65.18	100	299	P	H
		10600	47.88	-6.12	54	58.92	38.72	15.11	65.18	100	299	A	H
		15900	59.75	-14.25	74	68.95	36.27	19.02	64.77	194	24	P	H
		15900	49.19	-4.81	54	58.39	36.27	19.02	64.77	194	24	A	H
		10600	57.73	-16.27	74	69.08	38.72	15.11	65.18	214	340	P	V
		10600	46.84	-7.16	54	58.19	38.72	15.11	65.18	214	340	A	V
		15900	54.13	-19.87	74	63.33	36.27	19.02	64.77	200	9	P	V
		15900	43	-11	54	52.2	36.27	19.02	64.77	200	9	A	V
802.11n HT20 CH 64 5320MHz		10640	56.12	-17.88	74	67.07	38.77	15.15	65.17	100	300	P	H
		10640	45.63	-8.37	54	56.58	38.77	15.15	65.17	100	300	A	H
		15960	59.45	-14.55	74	69.03	36.02	19.06	64.92	192	23	P	H
		15960	48.78	-5.22	54	58.36	36.02	19.06	64.92	192	23	A	H
		10640	55.45	-18.55	74	66.7	38.77	15.15	65.17	193	332	P	V
		10640	46.57	-7.43	54	57.82	38.77	15.15	65.17	193	332	A	V
		15960	52.24	-21.76	74	61.82	36.02	19.06	64.92	200	4	P	V
		15960	42.94	-11.06	54	52.52	36.02	19.06	64.92	200	4	A	V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5089.42	49.76	-24.24	74	41.8	32	9	33.04	232	65	P	H
		5049.64	41.87	-12.13	54	34	31.95	8.96	33.04	232	65	A	H
	*	5270	108.57	-	-	100.29	32.17	9.14	33.03	232	65	P	H
	*	5270	101.29	-	-	93.01	32.17	9.14	33.03	232	65	A	H
		5352.96	56.32	-17.68	74	47.91	32.25	9.19	33.03	232	65	P	H
		5350.32	48	-6	54	39.59	32.25	9.19	33.03	232	65	A	H
		5027.88	50.05	-23.95	74	42.21	31.93	8.95	33.04	100	113	P	V
		5007.82	41.81	-12.19	54	34	31.92	8.93	33.04	100	113	A	V
	*	5270	104.31	-	-	96.03	32.17	9.14	33.03	100	113	P	V
	*	5270	96.17	-	-	87.89	32.17	9.14	33.03	100	113	A	V
		5352.24	49.72	-24.28	74	41.31	32.25	9.19	33.03	100	113	P	V
		5350.08	44.63	-9.37	54	36.22	32.25	9.19	33.03	100	113	A	V
802.11n HT40 CH 62 5310MHz		5103.36	49.05	-24.95	74	41.09	32	9	33.04	295	34	P	H
		5093.84	41.51	-12.49	54	33.55	32	9	33.04	295	34	A	H
	*	5310	100.92	-	-	92.57	32.22	9.16	33.03	295	34	P	H
	*	5310	92.68	-	-	84.33	32.22	9.16	33.03	295	34	A	H
		5350.08	57.57	-16.43	74	49.16	32.25	9.19	33.03	295	34	P	H
		5350.08	50.94	-3.06	54	42.53	32.25	9.19	33.03	295	34	A	H
		5107.44	48.91	-25.09	74	40.91	32.02	9.02	33.04	100	106	P	V
		5062.9	41.55	-12.45	54	33.65	31.97	8.97	33.04	100	106	A	V
	*	5310	100.68	-	-	92.33	32.22	9.16	33.03	100	106	P	V
	*	5310	92.45	-	-	84.1	32.22	9.16	33.03	100	106	A	V
		5355.6	59.2	-14.8	74	50.79	32.25	9.19	33.03	100	106	P	V
		5350.08	50.54	-3.46	54	42.13	32.25	9.19	33.03	100	106	A	V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	53.3	-14.9	68.2	64.46	38.64	15.08	65.19	100	0	P	H
		15810	60.33	-13.67	74	69.07	36.58	18.95	64.58	191	23	P	H
		15810	46.85	-7.15	54	55.59	36.58	18.95	64.58	191	23	A	H
													H
		10540	53.32	-14.88	68.2	64.79	38.64	15.08	65.19	100	0	P	V
		15810	52.19	-21.81	74	60.93	36.58	18.95	64.58	179	24	P	V
		15810	41.05	-12.95	54	49.79	36.58	18.95	64.58	179	24	A	V
													V
802.11n HT40 CH 62 5310MHz		10620	49.92	-24.08	74	60.93	38.74	15.13	65.18	100	0	P	H
		15930	49.34	-24.66	74	58.73	36.15	19.04	64.85	100	0	P	H
													H
													H
		10620	49.42	-24.58	74	60.73	38.74	15.13	65.18	100	0	P	V
		15930	45.27	-28.73	74	54.66	36.15	19.04	64.85	100	0	P	V
													V
													V

Remark

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

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5107.78	50.19	-23.81	74	42.19	32.02	9.02	33.04	236	64	P	H
		5139.06	41.81	-12.19	54	33.78	32.03	9.03	33.03	236	64	A	H
	*	5290	100.3	-	-	92	32.18	9.15	33.03	236	64	P	H
	*	5290	91.81	-	-	83.51	32.18	9.15	33.03	236	64	A	H
		5352.24	61.34	-12.66	74	52.93	32.25	9.19	33.03	236	64	P	H
		5351.04	51.52	-2.48	54	43.11	32.25	9.19	33.03	236	64	A	H
		5027.88	48.81	-25.19	74	40.97	31.93	8.95	33.04	100	114	P	V
		5044.54	41.54	-12.46	54	33.67	31.95	8.96	33.04	100	114	A	V
	*	5290	96.79	-	-	88.49	32.18	9.15	33.03	100	114	P	V
	*	5290	88.2	-	-	79.9	32.18	9.15	33.03	100	114	A	V
		5351.76	59.21	-14.79	74	50.8	32.25	9.19	33.03	100	114	P	V
		5351.04	48.38	-5.62	54	39.97	32.25	9.19	33.03	100	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	46.27	-21.93	68.2	57.35	38.7	15.09	65.18	100	0	P	H
		15870	43.05	-30.95	74	52.17	36.33	18.99	64.73	100	0	P	H
													H
													H
		10580	44.89	-23.31	68.2	56.28	38.7	15.09	65.18	100	0	P	V
		15870	43.33	-30.67	74	52.45	36.33	18.99	64.73	100	0	P	V
													V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11a (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5457.84	54.88	-19.12	74	46.26	32.35	9.29	33.02	236	69	P	H
		5462.16	60.16	-8.04	68.2	51.54	32.35	9.29	33.02	236	69	P	H
		5458.64	46.13	-7.87	54	37.51	32.35	9.29	33.02	236	69	A	H
	*	5500	111.97	-	-	103.25	32.4	9.34	33.02	236	69	P	H
	*	5500	104.81	-	-	96.09	32.4	9.34	33.02	236	69	A	H
													H
		5457.04	53.29	-20.71	74	44.67	32.35	9.29	33.02	100	112	P	V
		5466.32	58.61	-9.59	68.2	49.95	32.37	9.31	33.02	100	112	P	V
		5459.6	43.81	-10.19	54	35.19	32.35	9.29	33.02	100	112	A	V
	*	5500	108.7	-	-	99.98	32.4	9.34	33.02	100	112	P	V
	*	5500	100.88	-	-	92.16	32.4	9.34	33.02	100	112	A	V
													V
802.11a CH 116 5580MHz		5453.68	49.7	-24.3	74	41.08	32.35	9.29	33.02	100	64	P	H
		5464	49.09	-19.11	68.2	40.45	32.37	9.29	33.02	100	64	P	H
		5453.92	40.98	-13.02	54	32.36	32.35	9.29	33.02	100	64	A	H
	*	5580	108.44	-	-	99.48	32.57	9.46	33.07	100	64	P	H
	*	5580	100.58	-	-	91.62	32.57	9.46	33.07	100	64	A	H
		5725.625	50.57	-17.63	68.2	40.94	32.94	9.82	33.13	100	64	P	H
		5459.44	48.6	-25.4	74	39.98	32.35	9.29	33.02	100	115	P	V
		5466.64	49.96	-18.24	68.2	41.3	32.37	9.31	33.02	100	115	P	V
		5431.84	40.65	-13.35	54	32.07	32.33	9.27	33.02	100	115	A	V
	*	5580	107.25	-	-	98.29	32.57	9.46	33.07	100	115	P	V
	*	5580	99.65	-	-	90.69	32.57	9.46	33.07	100	115	A	V
		5744.875	50.06	-18.14	68.2	40.36	32.98	9.87	33.15	100	115	P	V

802.11a CH 140 5700MHz	*	5700	107.68	-	-	98.17	32.86	9.77	33.12	100	64	P	H
	*	5700	98.97	-	-	89.46	32.86	9.77	33.12	100	64	A	H
		5725.56	59.13	-9.07	68.2	49.5	32.94	9.82	33.13	100	64	P	H
													H
													H
													H
	*	5700	106.59	-	-	97.08	32.86	9.77	33.12	100	106	P	V
	*	5700	98.52	-	-	89.01	32.86	9.77	33.12	100	106	A	V
		5732.92	57.08	-11.12	68.2	47.47	32.94	9.82	33.15	100	106	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	61.52	-12.48	74	71.75	39.2	15.37	65.1	243	356	P	H
		11000	49.8	-4.2	54	60.03	39.2	15.37	65.1	243	356	A	H
		16500	58.68	-9.52	68.2	66.93	37.1	19.45	65.1	100	0	P	H
													H
		11000	60.87	-13.13	74	71.4	39.2	15.37	65.1	201	342	P	V
		11000	49.59	-4.41	54	60.12	39.2	15.37	65.1	201	342	A	V
		16500	52.77	-15.43	68.2	61.02	37.1	19.45	65.1	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	59.78	-14.22	74	70.19	38.97	15.53	65.2	100	347	P	H
		11160	49.91	-4.09	54	60.32	38.97	15.53	65.2	100	347	A	H
		16740	56.8	-11.4	68.2	62.81	38.93	19.6	64.86	100	0	P	H
													H
		11160	57.85	-16.15	74	68.26	38.97	15.53	65.2	200	342	P	V
		11160	47.7	-6.3	54	58.11	38.97	15.53	65.2	200	342	A	V
		16740	53.07	-15.13	68.2	59.08	38.93	19.6	64.86	100	0	P	V
													V
802.11a CH 140 5700MHz		11400	59.12	-14.88	74	69.8	38.64	15.74	65.34	100	348	P	H
		11400	49.9	-4.1	54	60.58	38.64	15.74	65.34	100	348	A	H
		17100	55.95	-12.25	68.2	59.4	40.84	19.82	64.46	100	0	P	H
													H
		11400	57.13	-16.87	74	68.09	38.64	15.74	65.34	200	337	P	V
		11400	46.27	-7.73	54	57.23	38.64	15.74	65.34	200	337	A	V
		17100	53.32	-14.88	68.2	56.77	40.84	19.82	64.46	100	0	P	V
													V

Remark

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

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5453.2	51.43	-22.57	74	42.81	32.35	9.29	33.02	234	63	P	H
		5466.16	64.82	-3.38	68.2	56.16	32.37	9.31	33.02	234	63	P	H
		5460	43.97	-10.03	54	35.35	32.35	9.29	33.02	234	63	A	H
	*	5500	111.11	-	-	102.39	32.4	9.34	33.02	234	63	P	H
	*	5500	103.91	-	-	95.19	32.4	9.34	33.02	234	63	A	H
													H
		5457.2	51.6	-22.4	74	42.98	32.35	9.29	33.02	179	117	P	V
		5469.68	59.53	-8.67	68.2	50.87	32.37	9.31	33.02	179	117	P	V
		5454.8	41.68	-12.32	54	33.06	32.35	9.29	33.02	179	117	A	V
	*	5500	105.99	-	-	97.27	32.4	9.34	33.02	179	117	P	V
	*	5500	99.11	-	-	90.39	32.4	9.34	33.02	179	117	A	V
													V
802.11n HT20 CH 116 5580MHz		5440	49.28	-24.72	74	40.7	32.33	9.27	33.02	232	62	P	H
		5467.36	48.8	-19.4	68.2	40.14	32.37	9.31	33.02	232	62	P	H
		5452.96	41.36	-12.64	54	32.74	32.35	9.29	33.02	232	62	A	H
	*	5580	110.46	-	-	101.5	32.57	9.46	33.07	232	62	P	H
	*	5580	103.33	-	-	94.37	32.57	9.46	33.07	232	62	A	H
		5730.98	50.59	-17.61	68.2	40.98	32.94	9.82	33.15	232	62	P	H
		5457.8	49.26	-24.74	74	40.64	32.35	9.29	33.02	100	116	P	V
		5467.95	47.97	-20.23	68.2	39.31	32.37	9.31	33.02	100	116	P	V
		5446.25	40.54	-13.46	54	31.94	32.35	9.27	33.02	100	116	A	V
	*	5580	107.05	-	-	98.09	32.57	9.46	33.07	100	116	P	V
	*	5580	99.85	-	-	90.89	32.57	9.46	33.07	100	116	A	V
		5731.61	50.82	-17.38	68.2	41.21	32.94	9.82	33.15	100	116	P	V

	*	5700	110.85	-	-	101.34	32.86	9.77	33.12	231	62	P	H
	*	5700	102.89	-	-	93.38	32.86	9.77	33.12	231	62	A	H
		5725	63.34	-4.86	68.2	53.71	32.94	9.82	33.13	231	62	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	104.9	-	-	95.39	32.86	9.77	33.12	184	114	P	V
5700MHz	*	5700	96.93	-	-	87.42	32.86	9.77	33.12	184	114	A	V
		5727.4	58.82	-9.38	68.2	49.19	32.94	9.82	33.13	184	114	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	60.82	-13.18	74	71.05	39.2	15.37	65.1	172	348	P	H
		11000	48.93	-5.07	54	59.16	39.2	15.37	65.1	172	348	A	H
		16500	59.4	-8.8	68.2	67.65	37.1	19.45	65.1	100	0	P	H
													H
		11000	60.45	-13.55	74	70.98	39.2	15.37	65.1	194	338	P	V
		11000	48.63	-5.37	54	59.16	39.2	15.37	65.1	194	338	A	V
		16500	56.25	-11.95	68.2	64.5	37.1	19.45	65.1	100	0	P	V
													V
802.11n HT20 CH 116 5580MHz		11160	58.9	-15.1	74	69.31	38.97	15.53	65.2	100	348	P	H
		11160	48.89	-5.11	54	59.3	38.97	15.53	65.2	100	348	A	H
		16740	57.5	-10.7	68.2	63.51	38.93	19.6	64.86	100	0	P	H
													H
		11160	66.08	-7.92	74	76.78	38.97	15.53	65.2	188	339	P	V
		11160	48.19	-5.81	54	58.89	38.97	15.53	65.2	188	339	A	V
		16740	55.28	-12.92	68.2	61.29	38.93	19.6	64.86	100	0	P	V
													V
802.11n HT20 CH 140 5700MHz		11400	60	-14	74	70.68	38.64	15.74	65.34	100	324	P	H
		11400	49.7	-4.3	54	60.38	38.64	15.74	65.34	100	324	A	H
		17100	58.05	-10.15	68.2	61.5	40.84	19.82	64.46	100	0	P	H
													H
		11400	58.59	-15.41	74	69.55	38.64	15.74	65.34	200	332	P	V
		11400	46.78	-7.22	54	57.74	38.64	15.74	65.34	200	332	A	V
		17100	57.1	-11.1	68.2	60.55	40.84	19.82	64.46	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5455.12	59.39	-14.61	74	50.77	32.35	9.29	33.02	231	63	P	H
		5467.12	62.78	-5.42	68.2	54.12	32.37	9.31	33.02	231	63	P	H
		5459.92	49.66	-4.34	54	41.04	32.35	9.29	33.02	231	63	A	H
	*	5510	107.59	-	-	98.86	32.4	9.36	33.03	231	63	P	H
	*	5510	99	-	-	90.27	32.4	9.36	33.03	231	63	A	H
		5753.66	51.09	-17.11	68.2	41.3	33.02	9.92	33.15	231	63	P	H
		5458.24	54.74	-19.26	74	46.12	32.35	9.29	33.02	100	108	P	V
		5466.16	61.06	-7.14	68.2	52.4	32.37	9.31	33.02	100	108	P	V
		5455.6	47.5	-6.5	54	38.88	32.35	9.29	33.02	100	108	A	V
	*	5510	103.53	-	-	94.8	32.4	9.36	33.03	100	108	P	V
	*	5510	94.33	-	-	85.6	32.4	9.36	33.03	100	108	A	V
		5761.85	49.8	-18.4	68.2	40.02	33.02	9.92	33.16	100	108	P	V
802.11n HT40 CH 110 5550MHz		5456.32	52.53	-21.47	74	43.91	32.35	9.29	33.02	237	65	P	H
		5468.32	55.97	-12.23	68.2	47.31	32.37	9.31	33.02	237	65	P	H
		5456.8	44.43	-9.57	54	35.81	32.35	9.29	33.02	237	65	A	H
	*	5550	110.79	-	-	101.91	32.52	9.41	33.05	237	65	P	H
	*	5550	103.09	-	-	94.21	32.52	9.41	33.05	237	65	A	H
		5727.83	50.73	-17.47	68.2	41.1	32.94	9.82	33.13	237	65	P	H
		5418.4	49.32	-24.68	74	40.78	32.32	9.24	33.02	100	109	P	V
		5463.76	51.79	-16.41	68.2	43.15	32.37	9.29	33.02	100	109	P	V
		5458.24	42.33	-11.67	54	33.71	32.35	9.29	33.02	100	109	A	V
	*	5550	104.38	-	-	95.5	32.52	9.41	33.05	100	109	P	V
	*	5550	96.6	-	-	87.72	32.52	9.41	33.05	100	109	A	V
		5745.785	50.27	-17.93	68.2	40.57	32.98	9.87	33.15	100	109	P	V

802.11n HT40 CH 134 5670MHz		5458.5	48.97	-25.03	74	40.35	32.35	9.29	33.02	230	63	P	H
		5467.25	49.59	-18.61	68.2	40.93	32.37	9.31	33.02	230	63	P	H
		5452.9	41.53	-12.47	54	32.91	32.35	9.29	33.02	230	63	A	H
	*	5670	109.09	-	-	99.72	32.81	9.67	33.11	230	63	P	H
	*	5670	100.88	-	-	91.51	32.81	9.67	33.11	230	63	A	H
		5728.775	58.89	-9.31	68.2	49.26	32.94	9.82	33.13	230	63	P	H
		5454.3	48.45	-25.55	74	39.83	32.35	9.29	33.02	100	86	P	V
		5463.4	47.77	-20.43	68.2	39.13	32.37	9.29	33.02	100	86	P	V
		5449.4	41.01	-12.99	54	32.39	32.35	9.29	33.02	100	86	A	V
	*	5670	101.98	-	-	92.61	32.81	9.67	33.11	100	86	P	V
	*	5670	93.72	-	-	84.35	32.81	9.67	33.11	100	86	A	V
		5731.05	53.82	-14.38	68.2	44.21	32.94	9.82	33.15	100	86	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	53.14	-20.86	74	63.38	39.18	15.4	65.11	241	0	P	H
		11020	44.65	-9.35	54	54.89	39.18	15.4	65.11	241	0	A	H
		16530	49.66	-18.54	68.2	57.61	37.36	19.46	65.07	100	0	P	H
													H
		11020	48.58	-25.42	74	59.11	39.18	15.4	65.11	100	0	P	V
		16530	45.37	-22.83	68.2	53.32	37.36	19.46	65.07	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	58.71	-15.29	74	69.06	39.06	15.46	65.16	100	339	P	H
		11100	48.85	-5.15	54	59.2	39.06	15.46	65.16	100	339	A	H
		16650	56.4	-11.8	68.2	63.2	38.28	19.55	64.94	100	0	P	H
													H
		11100	59.33	-14.67	74	69.97	39.06	15.46	65.16	118	336	P	V
		11100	48.19	-5.81	54	58.83	39.06	15.46	65.16	118	336	A	V
		16650	55.11	-13.09	68.2	61.91	38.28	19.55	64.94	100	0	P	V
													V
802.11n HT40 CH 134 5670MHz		11340	57.68	-16.32	74	68.27	38.73	15.69	65.3	100	341	P	H
		11340	49.53	-4.47	54	60.12	38.73	15.69	65.3	100	341	A	H
		17010	55.37	-12.83	68.2	58.93	40.89	19.79	64.58	100	0	P	H
													H
		11340	58.75	-15.25	74	69.63	38.73	15.69	65.3	105	341	P	V
		11340	48.42	-5.58	54	59.3	38.73	15.69	65.3	105	341	A	V
		17010	55.02	-13.18	68.2	58.58	40.89	19.79	64.58	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5446.96	58.8	-15.2	74	50.2	32.35	9.27	33.02	234	64	P	H
		5466.64	62.42	-5.78	68.2	53.76	32.37	9.31	33.02	234	64	P	H
		5450.08	50.89	-3.11	54	42.27	32.35	9.29	33.02	234	64	A	H
	*	5530	101.57	-	-	92.79	32.44	9.39	33.05	234	64	P	H
	*	5530	93.3	-	-	84.52	32.44	9.39	33.05	234	64	A	H
		5737.28	51.04	-17.16	68.2	41.34	32.98	9.87	33.15	234	64	P	H
		5448.16	56.07	-17.93	74	47.45	32.35	9.29	33.02	100	110	P	V
		5469.76	59.21	-8.99	68.2	50.55	32.37	9.31	33.02	100	110	P	V
		5450.32	47.9	-6.1	54	39.28	32.35	9.29	33.02	100	110	A	V
	*	5530	97.45	-	-	88.67	32.44	9.39	33.05	100	110	P	V
	*	5530	89.53	-	-	80.75	32.44	9.39	33.05	100	110	A	V
		5757.755	50.3	-17.9	68.2	40.52	33.02	9.92	33.16	100	110	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	47.04	-26.96	74	57.34	39.11	15.44	65.14	100	0	P	H
		16590	44.91	-23.29	68.2	52.34	37.76	19.52	65.01	100	0	P	H
													H
													H
		11060	45.83	-28.17	74	56.42	39.11	15.44	65.14	100	0	P	V
		16590	45.15	-23.05	68.2	52.58	37.76	19.52	65.01	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5720	110.19	-	-	100.56	32.94	9.82	33.13	219	65	P	H
	*	5720	102.61	-	-	92.98	32.94	9.82	33.13	219	65	A	H
													H
													H
													H
													H
	*	5720	105.59	-	-	95.96	32.94	9.82	33.13	100	104	P	V
	*	5720	98.12	-	-	88.49	32.94	9.82	33.13	100	104	A	V
													V
													V
													V
													V

Remark

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

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	57.92	-16.08	74	68.65	38.59	15.76	65.36	100	327	P	H
		11440	49.44	-4.56	54	60.17	38.59	15.76	65.36	100	327	A	H
		17160	61.04	-7.16	68.2	64.42	40.8	19.84	64.37	100	0	P	H
													H
		11440	60.17	-13.83	74	71.18	38.59	15.76	65.36	110	327	P	V
		11440	49.01	-4.99	54	60.02	38.59	15.76	65.36	110	327	A	V
		17160	57.78	-10.42	68.2	61.16	40.8	19.84	64.37	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		30	22.71	-17.29	40	30.14	24.36	0.68	32.5	-	-	P	H
		38.37	22.51	-17.49	40	34.46	19.85	0.68	32.49	-	-	P	H
		106.14	26.35	-17.15	43.5	40.95	16.57	1.27	32.47	-	-	P	H
		557.6	27.28	-18.72	46	30.55	26.09	2.98	32.43	-	-	P	H
		792.8	30.85	-15.15	46	31.09	28.3	3.5	32.2	-	-	P	H
		956.6	34.56	-11.44	46	30.6	31.06	3.87	31.14	100	0	P	H
													H
													H
													H
													H
													H
													H
		40.8	30.91	-9.09	40	43.62	18.83	0.94	32.49	100	87	P	V
		61.05	27.22	-12.78	40	46.9	11.73	1.06	32.49	-	-	P	V
		78.87	26.51	-13.49	40	44.73	13.03	1.22	32.48	-	-	P	V
		565.3	27.51	-18.49	46	30.71	26.12	3.02	32.43	-	-	P	V
		778.8	30.68	-15.32	46	30.94	28.33	3.5	32.24	-	-	P	V
		958.7	34.01	-11.99	46	29.94	31.14	3.87	31.12	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission

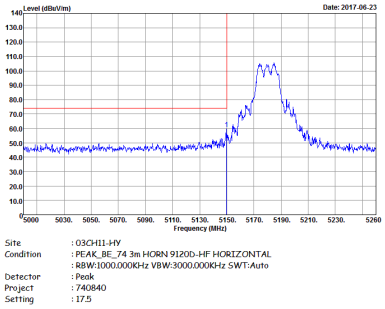
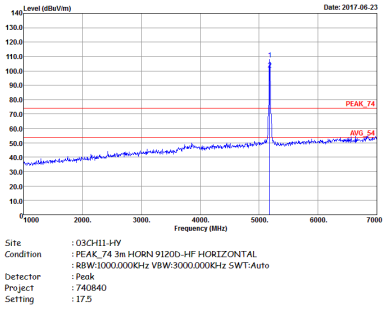
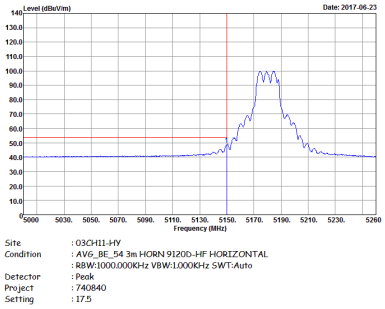
Test Engineer :	J.C. Liang, Jacky Hung and KenWu	**Temperature :**	21~24°C
		Relative Humidity :	51~55%

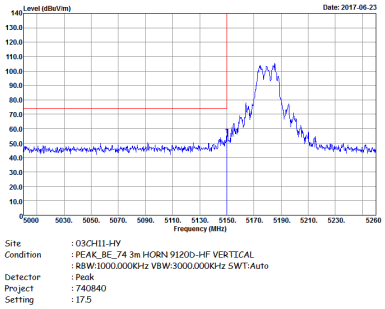
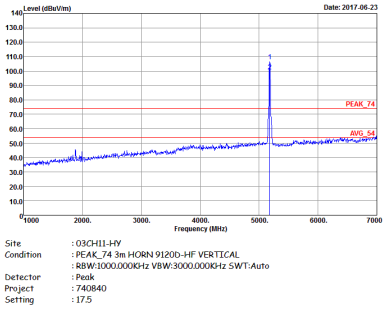
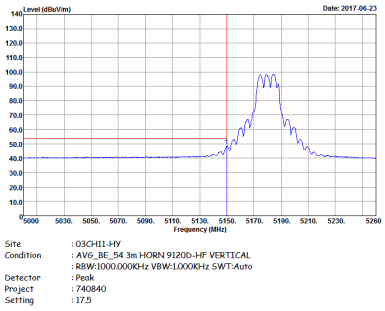
Note symbol

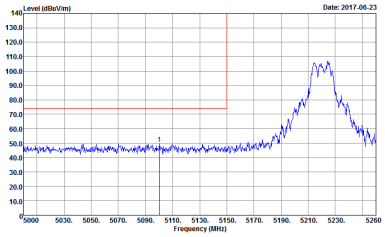
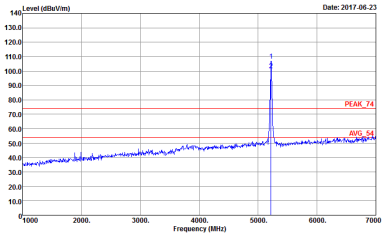
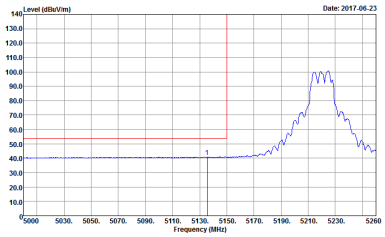
-L	**Low channel location**
-R	**High channel location**

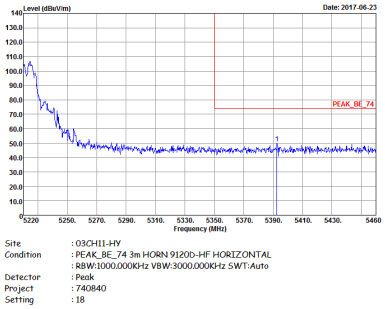
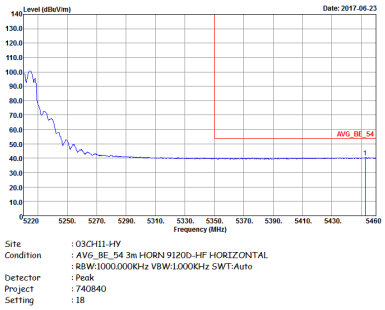
Band 1 - 5150~5250MHz

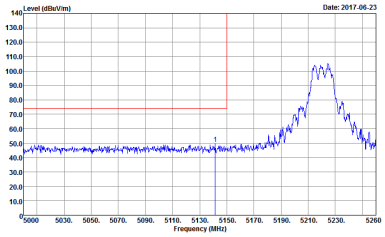
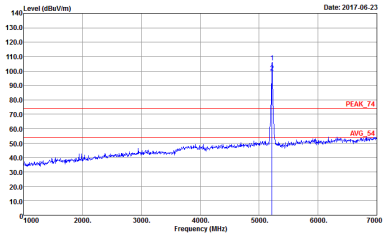
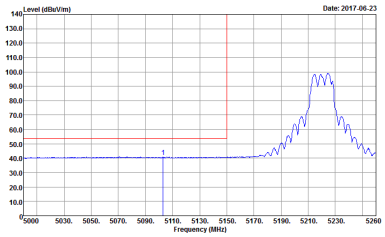
WIFI 802.11a (Band Edge @ 3m)

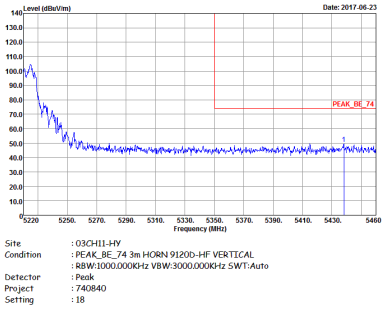
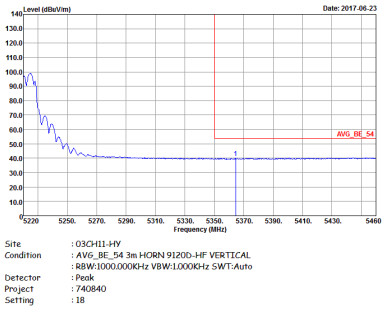
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

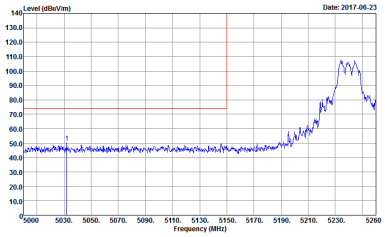
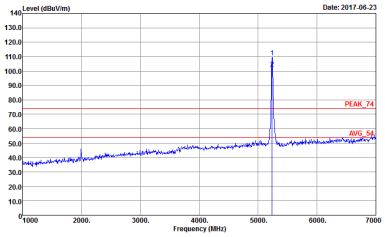
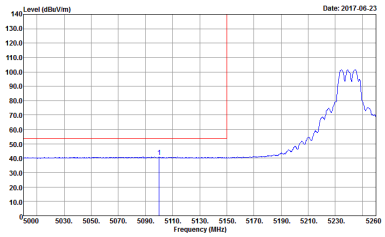
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

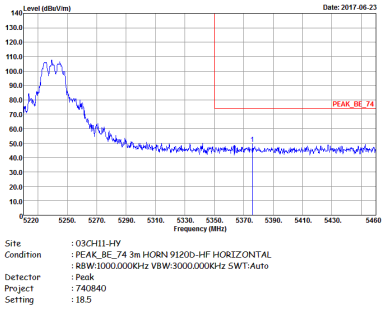
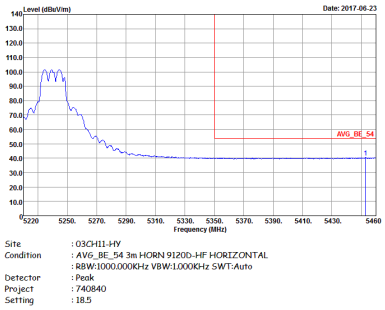
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18	Left blank

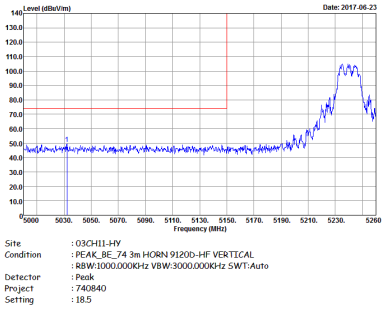
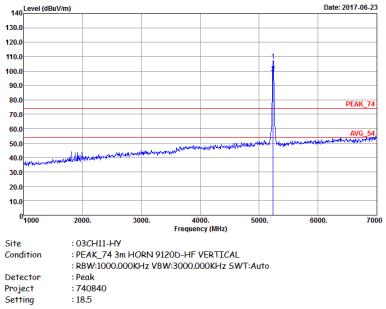
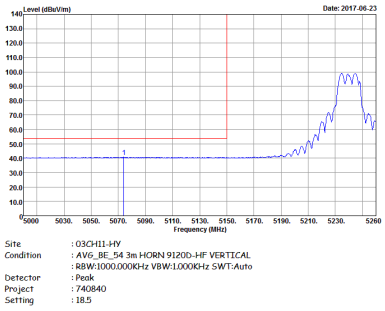
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

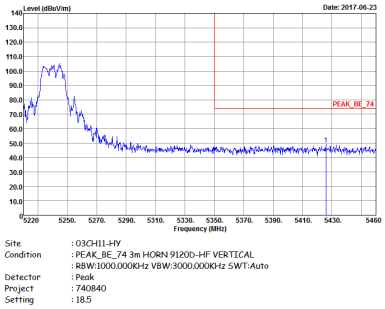
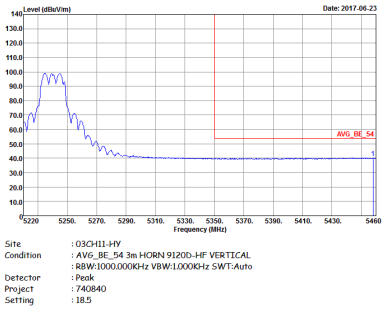
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18	Left blank

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

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 18.5	Left blank

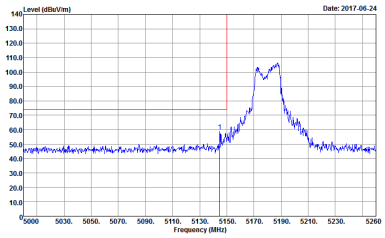
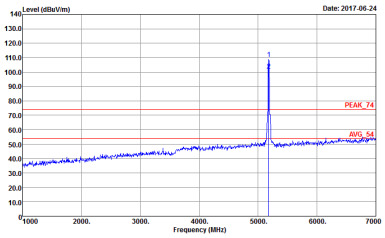
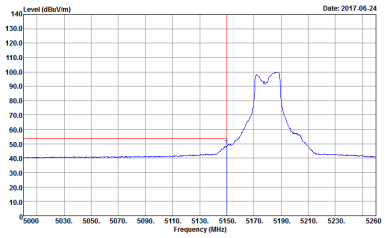
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

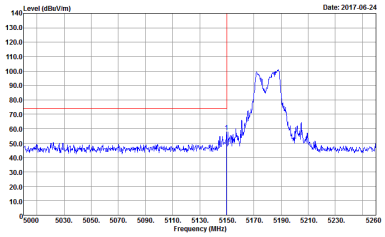
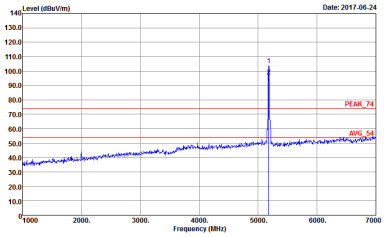
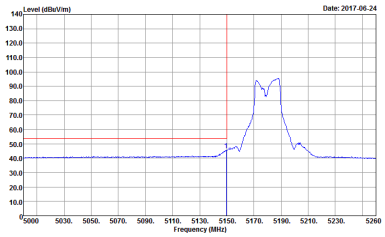
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

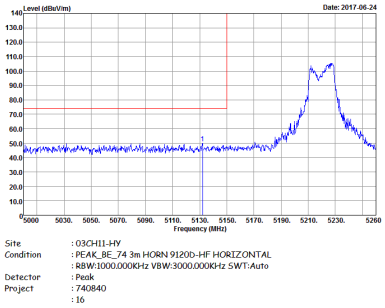
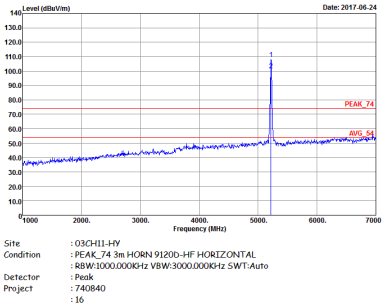
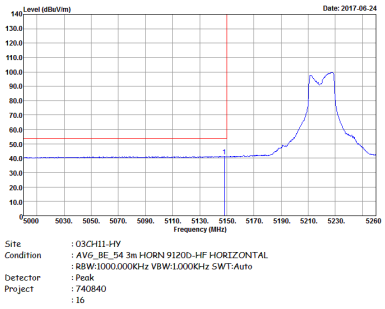
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

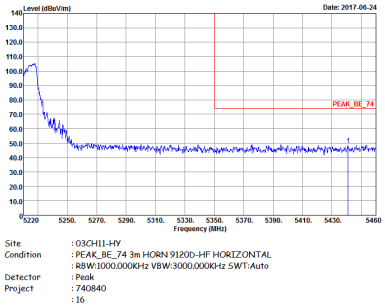
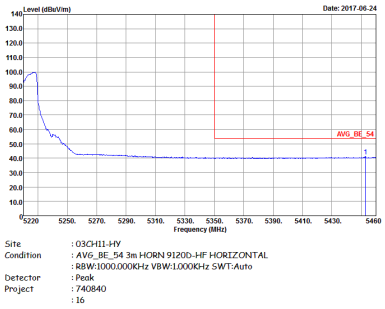
Band 1 5150~5250MHz

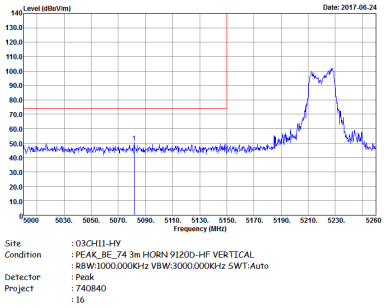
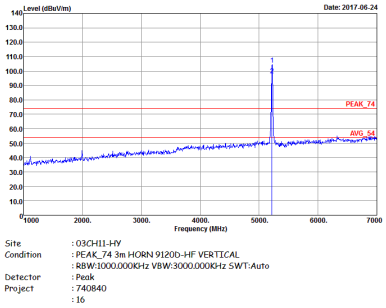
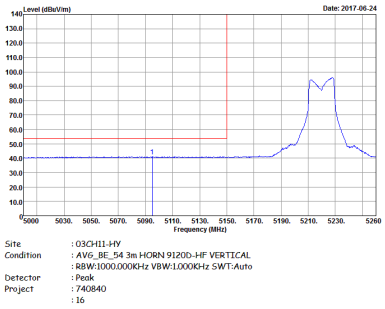
WIFI 802.11n HT20 (Band Edge @ 3m)

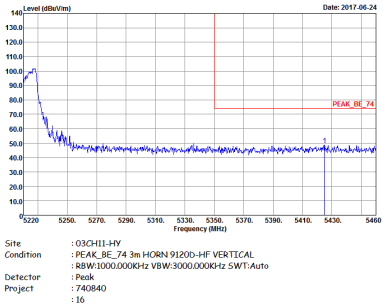
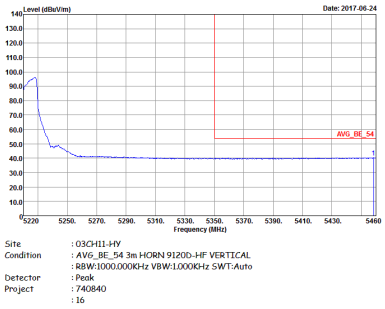
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5	Left blank

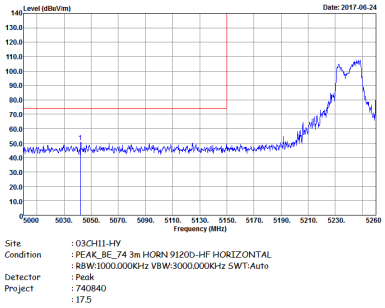
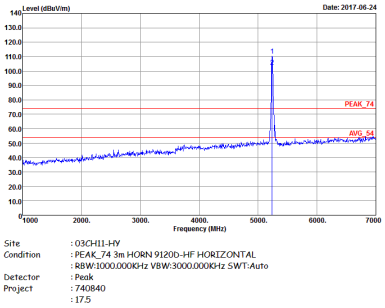
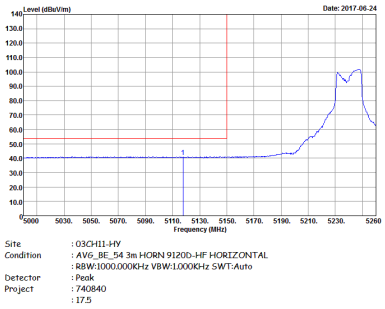
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16.5	Left blank

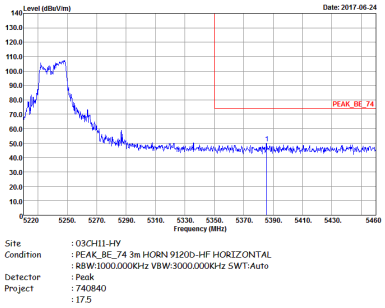
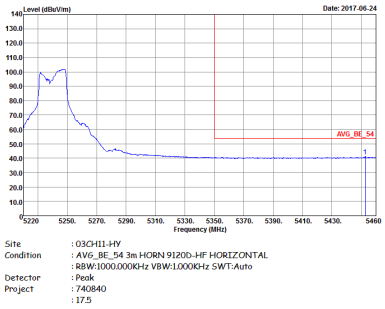
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

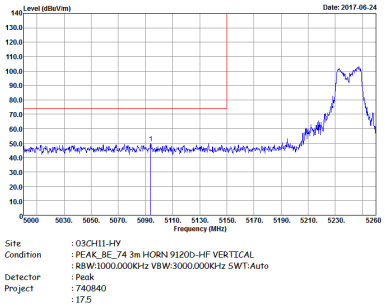
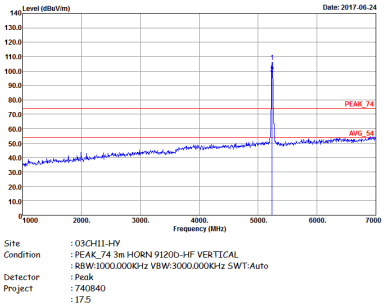
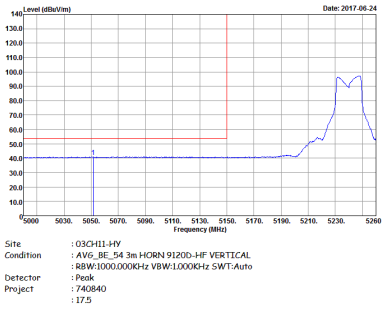
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

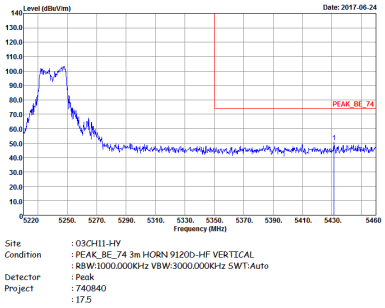
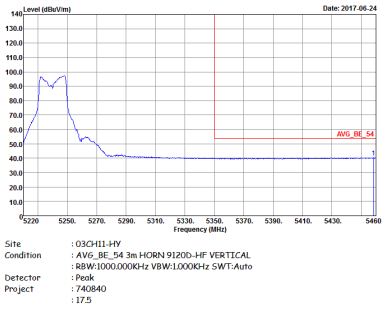
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

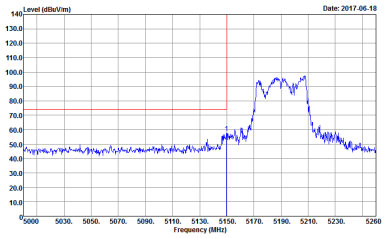
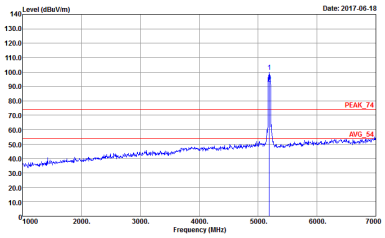
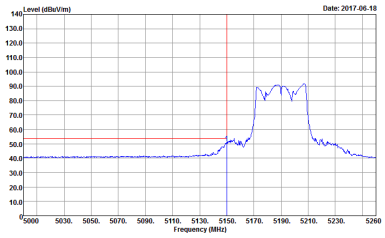
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

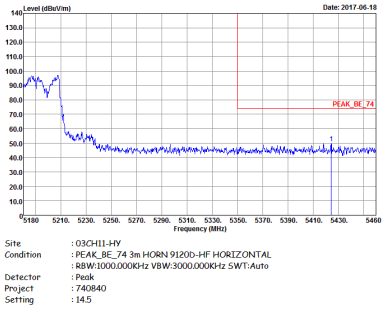
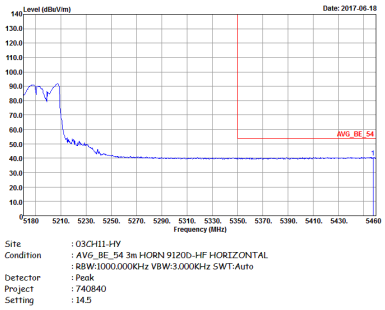
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

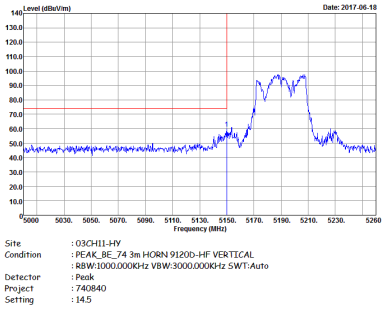
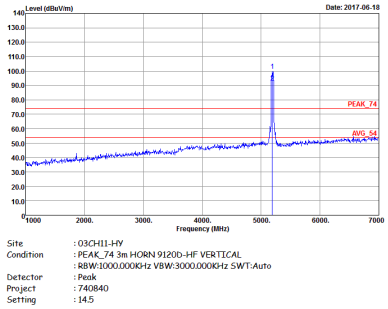
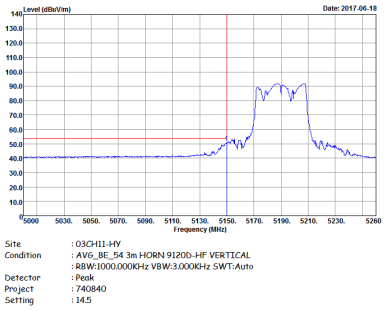
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

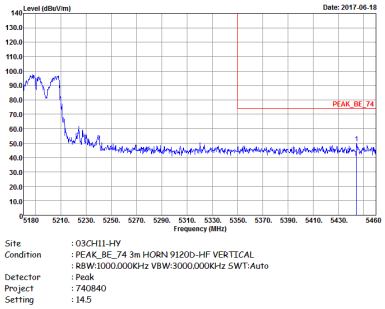
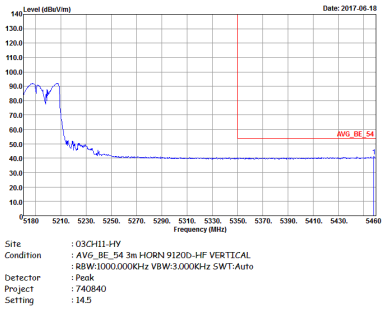
Band 1 5150~5250MHz

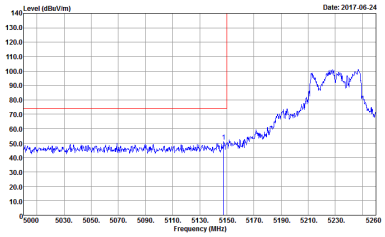
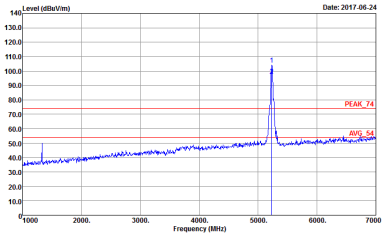
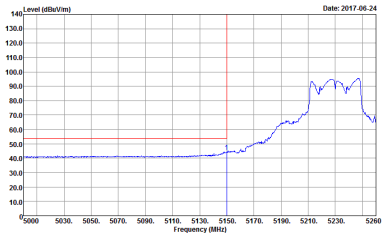
WIFI 802.11n HT40 (Band Edge @ 3m)

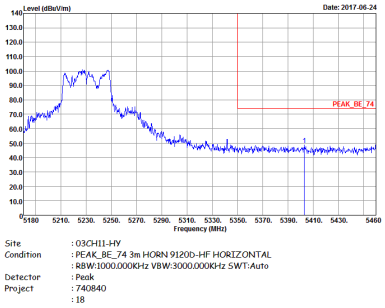
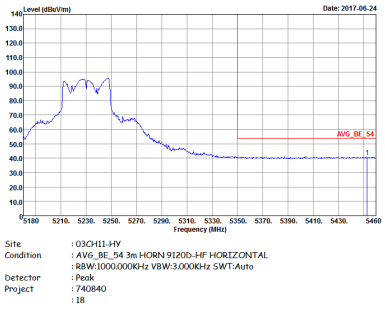
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 14.5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 14.5	Left blank

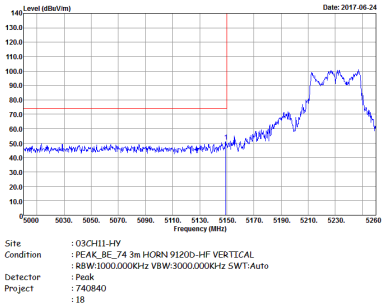
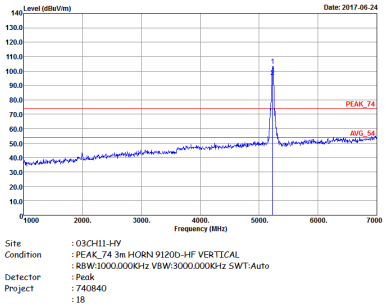
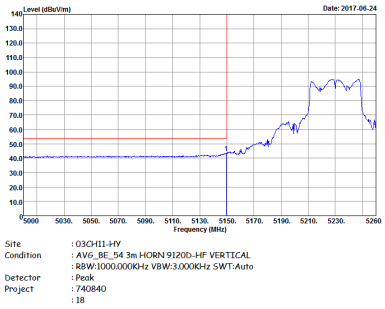
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

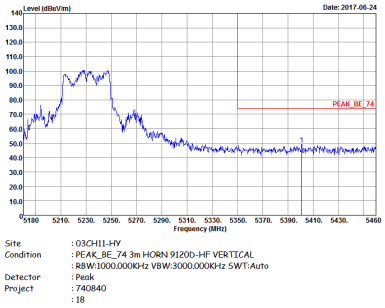
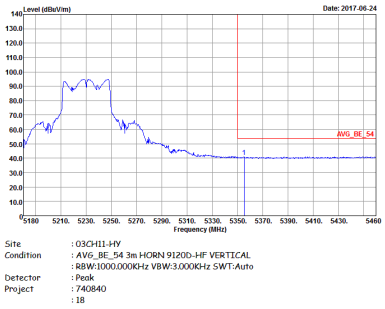
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 : 18	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 : 18
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740840 : 18	Left blank

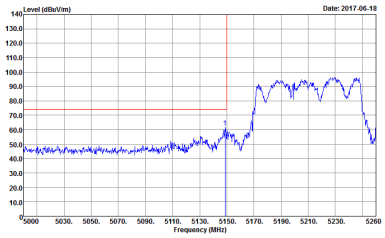
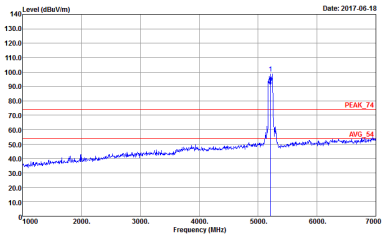
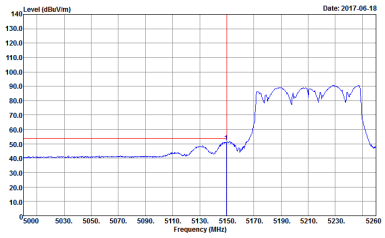
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

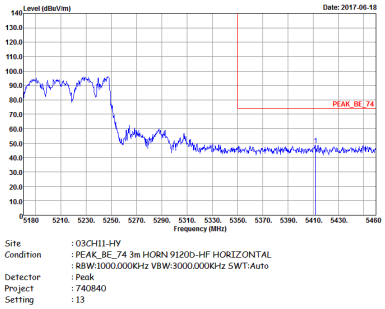
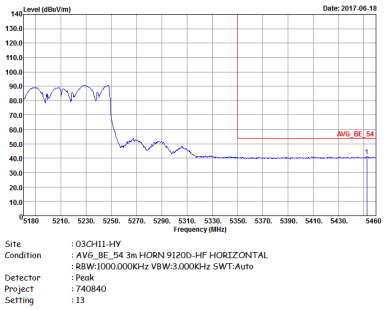
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

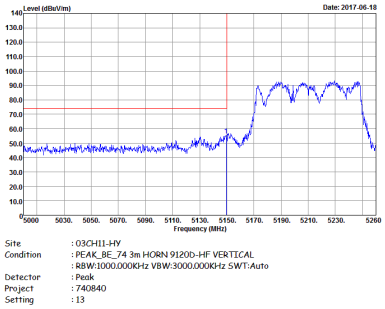
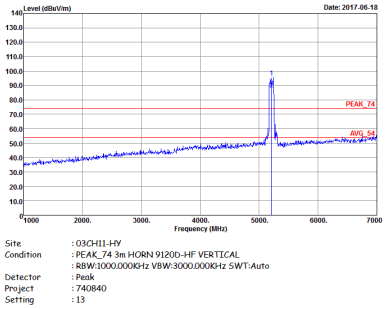
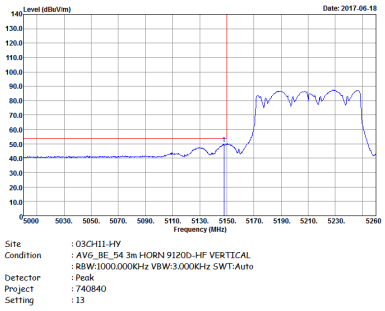
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

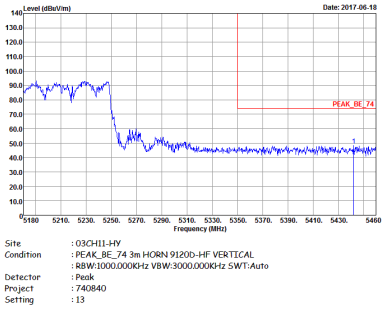
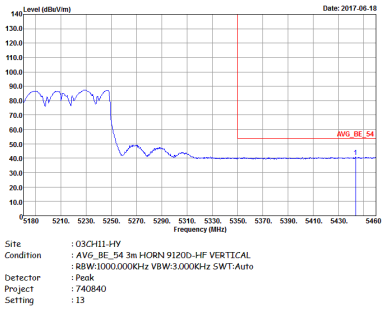
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13	Left blank

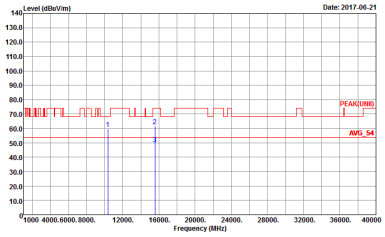
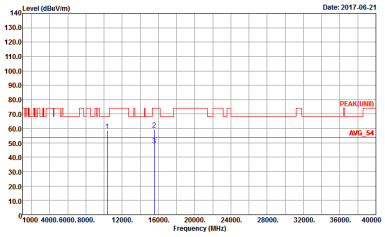
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

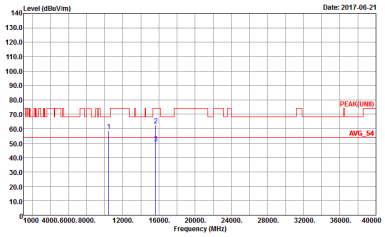
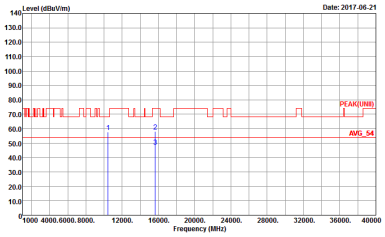
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

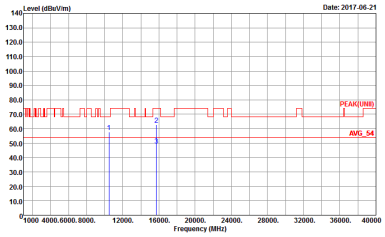
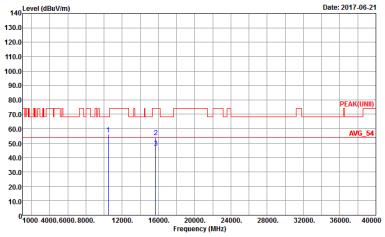
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

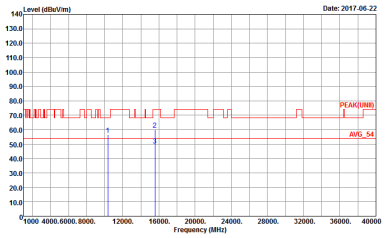
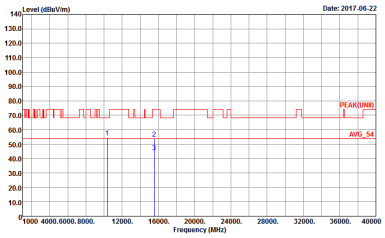
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 17.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 17.5

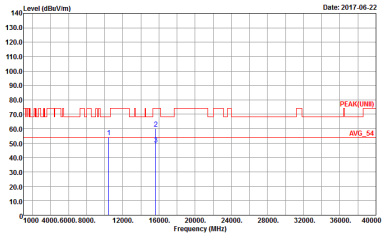
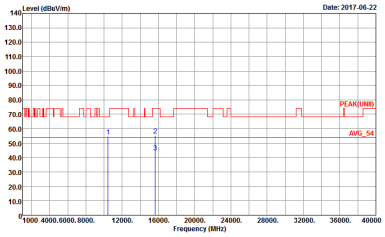
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 18	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 18

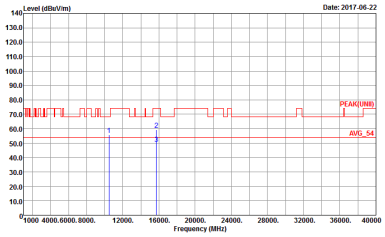
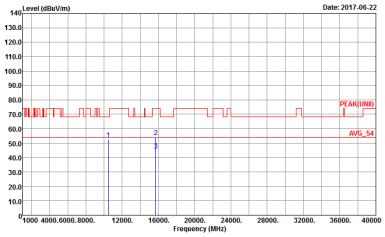
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 18.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 18.5

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

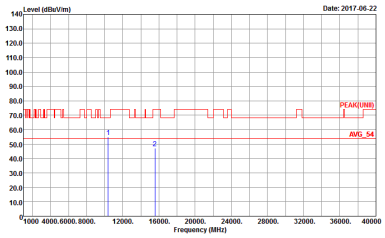
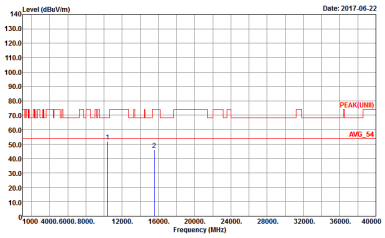
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 16.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 16.5

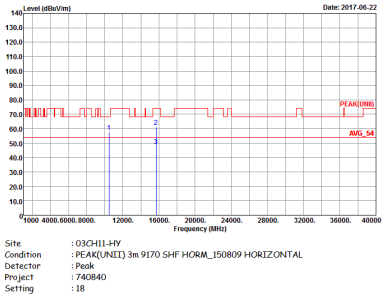
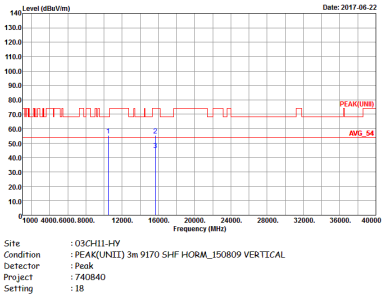
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

Band 1 5150~5250MHz

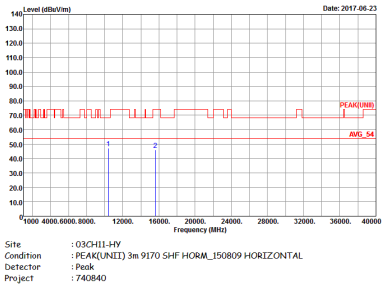
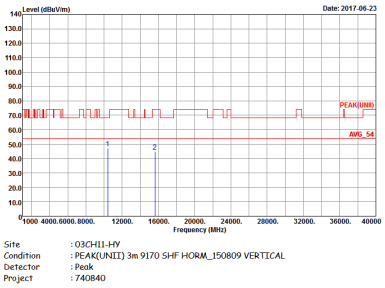
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 14.5

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

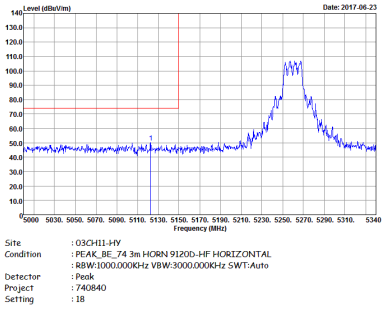
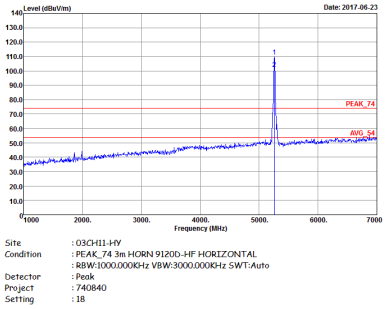
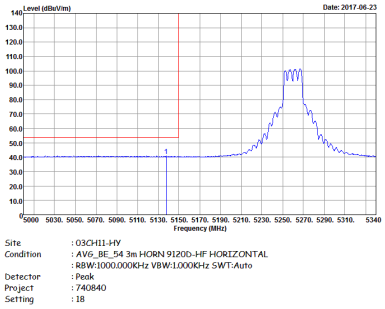
Band 1 5150~5250MHz

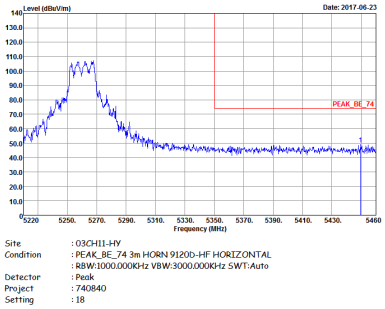
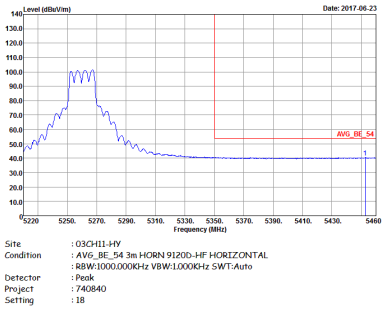
WIFI 802.11ac VHT80 (Harmonic @ 3m)

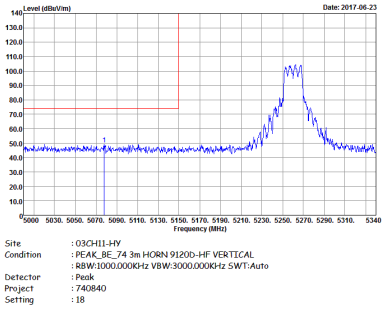
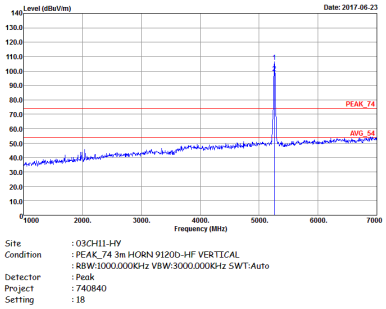
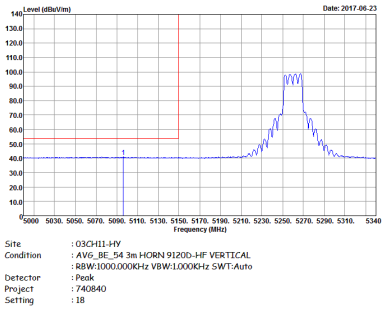
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

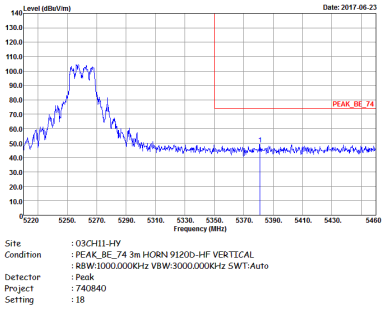
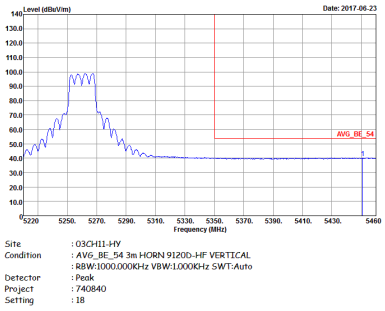
Band 2 - 5250~5350MHz

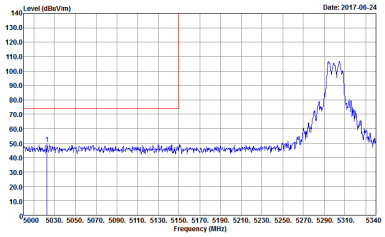
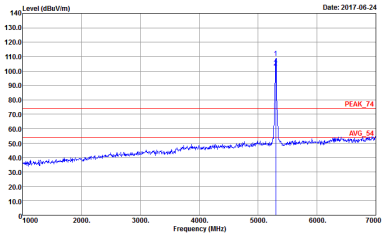
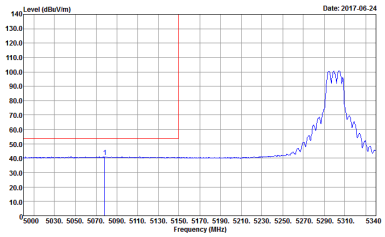
WIFI 802.11a (Band Edge @ 3m)

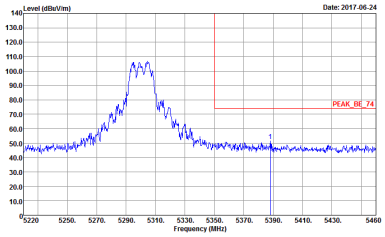
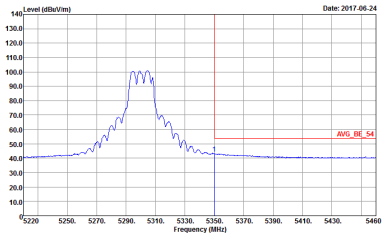
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

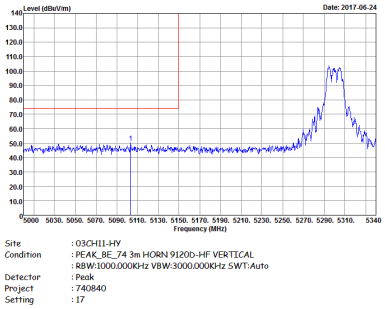
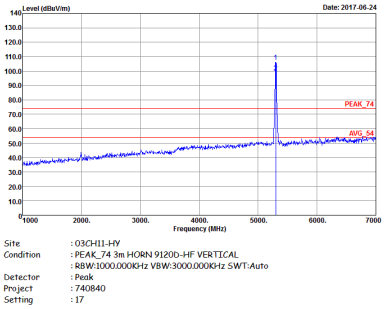
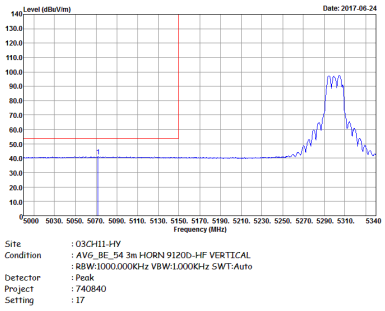
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

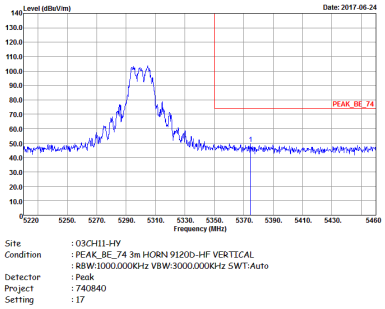
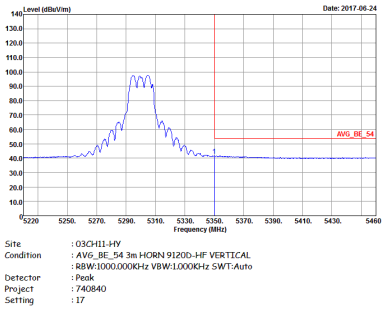
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

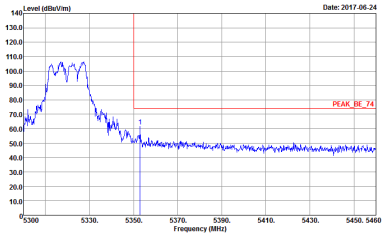
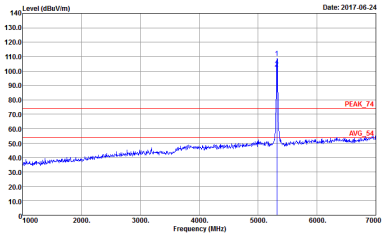
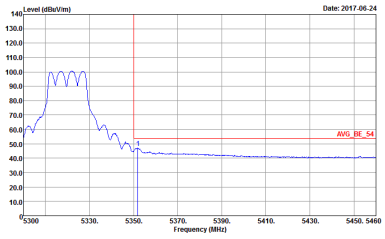
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

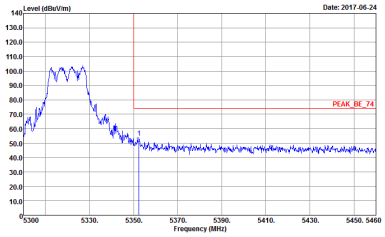
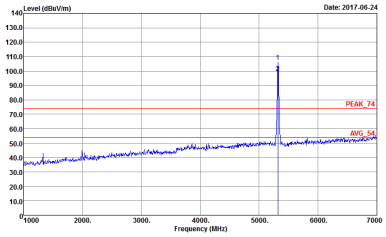
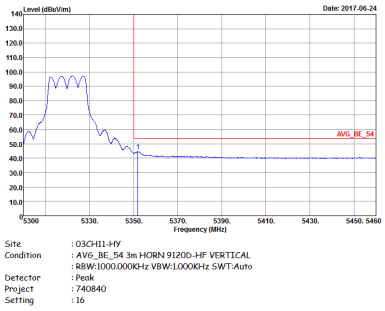
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	Left blank

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

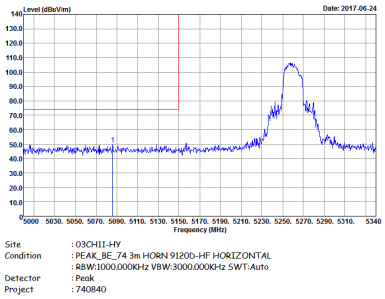
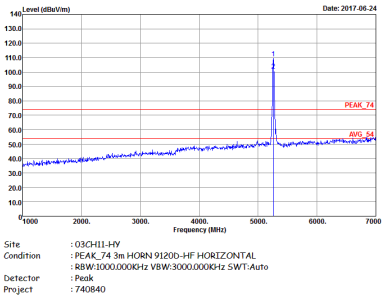
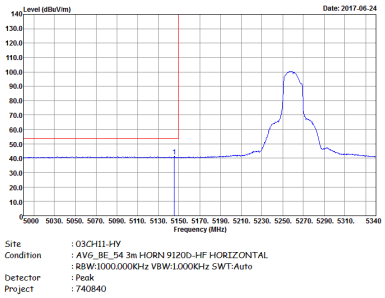
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

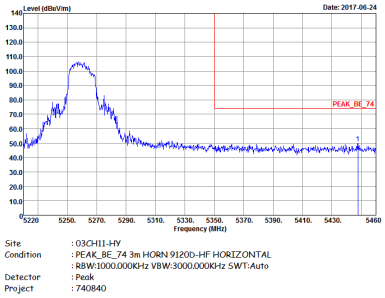
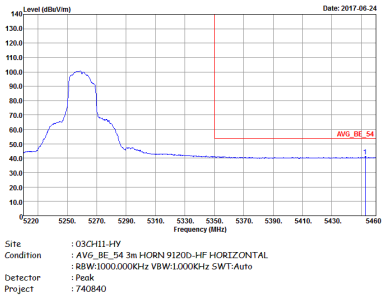
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

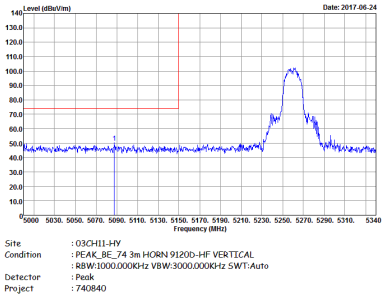
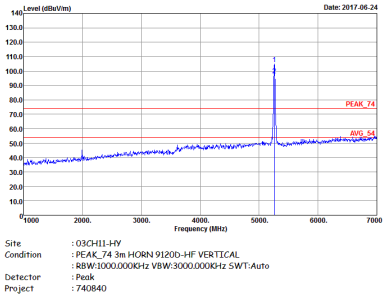
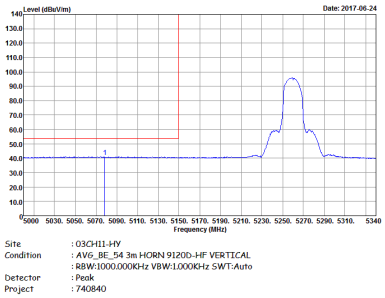
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

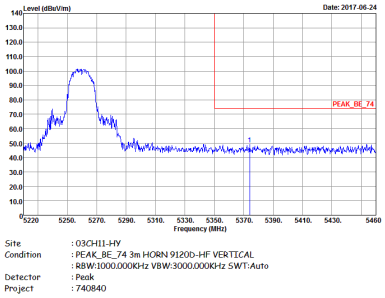
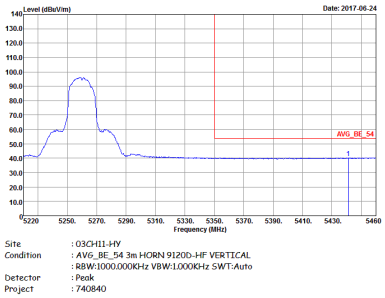
Band 2 5250~5350MHz

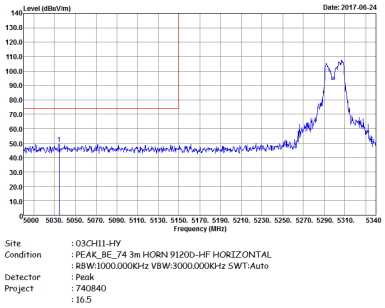
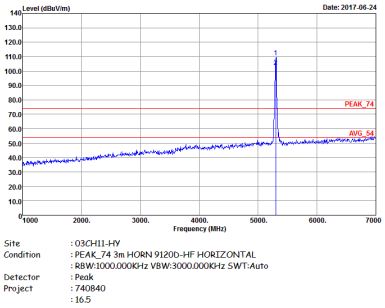
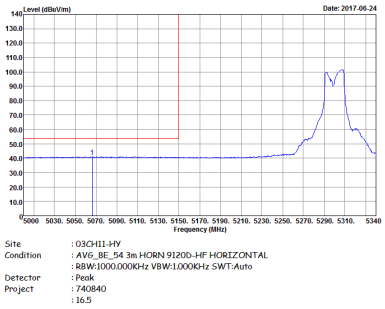
WIFI 802.11n HT20 (Band Edge @ 3m)

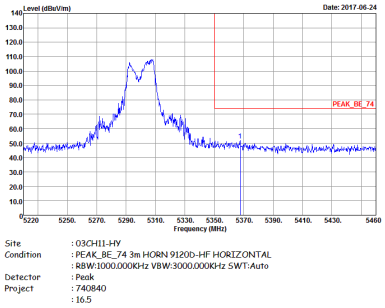
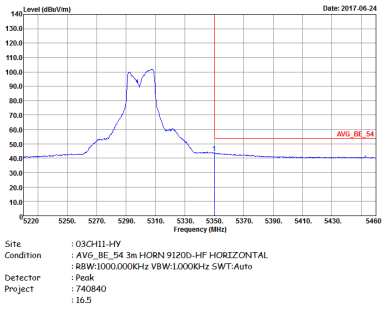
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

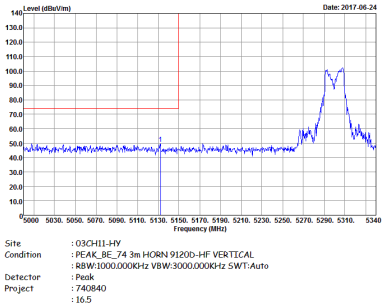
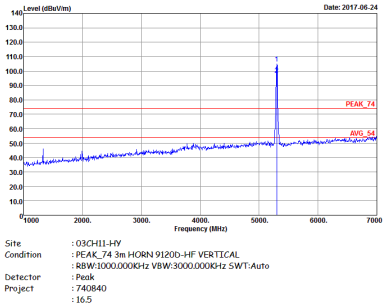
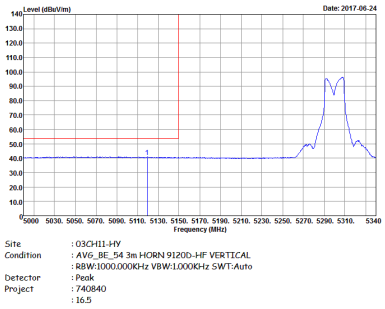
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

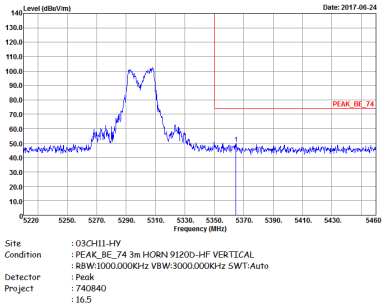
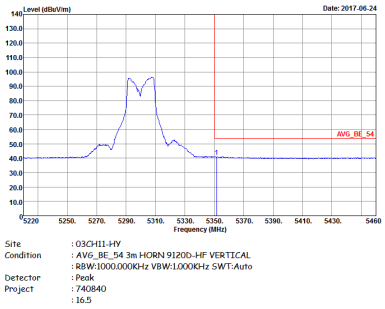
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

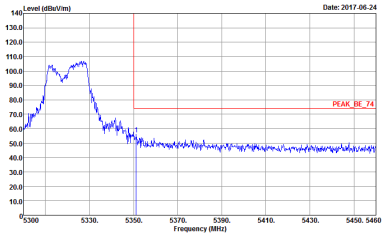
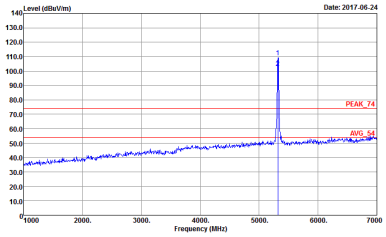
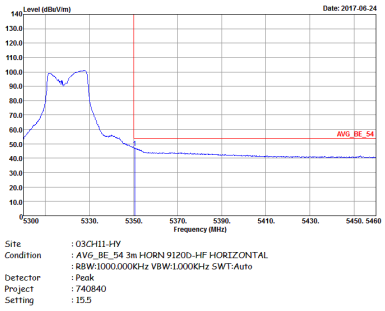
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

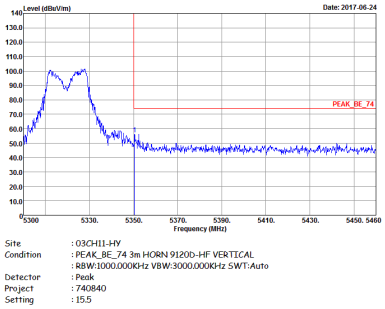
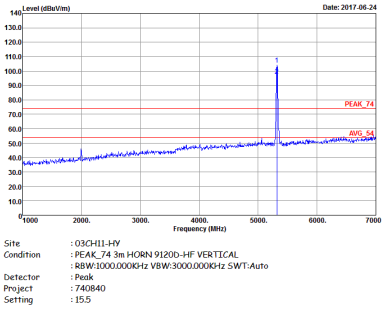
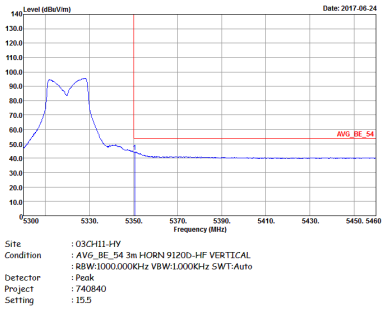
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

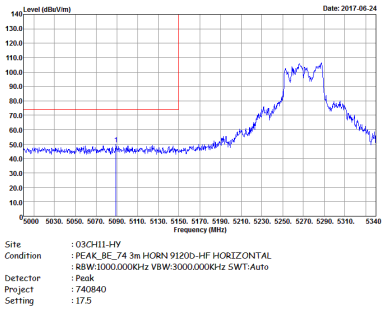
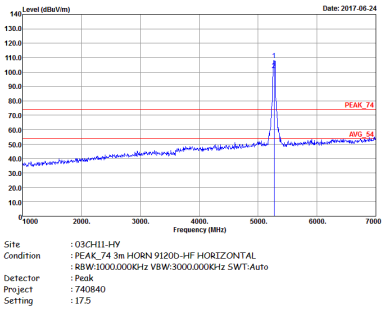
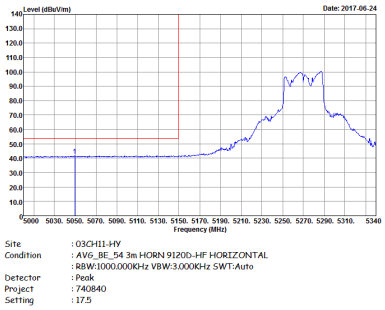
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

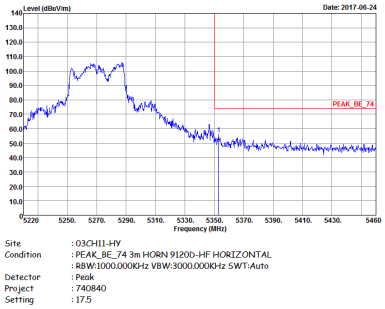
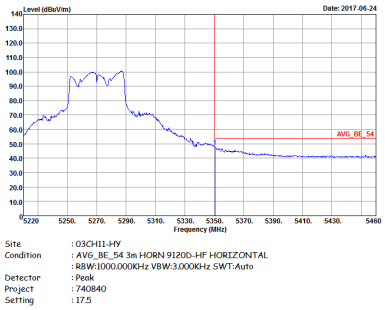
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

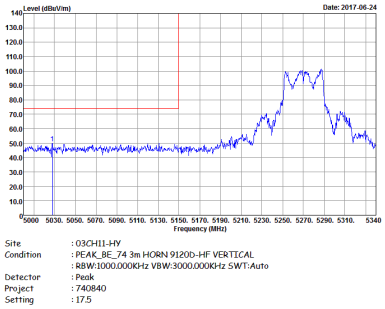
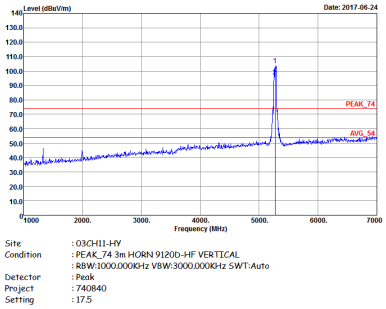
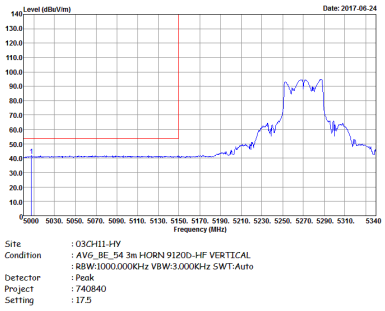
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

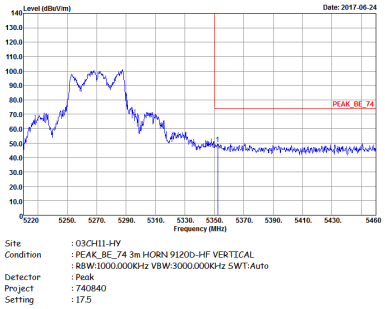
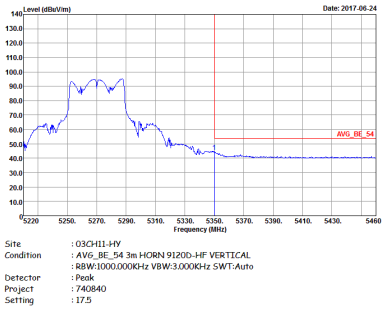
Band 2 5250~5350MHz

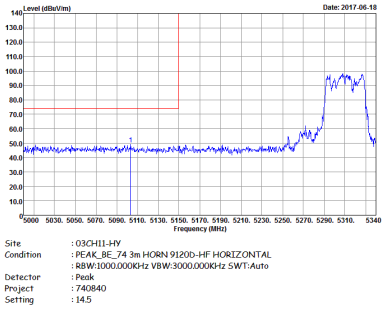
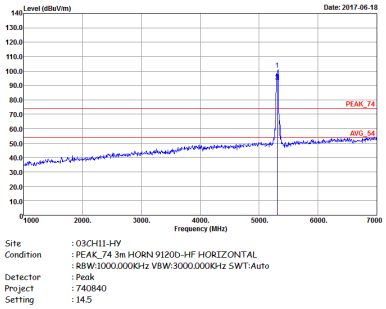
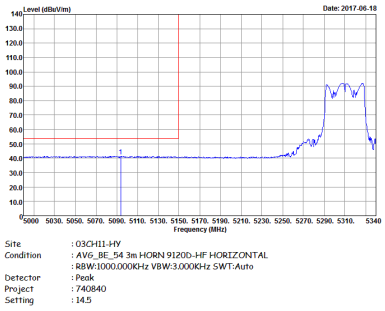
WIFI 802.11n HT40 (Band Edge @ 3m)

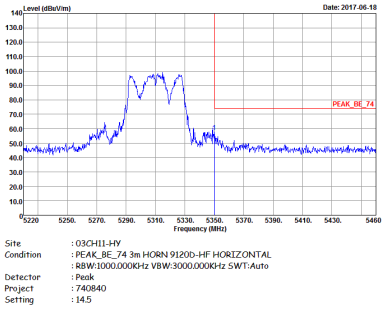
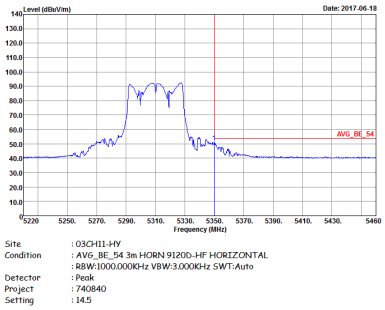
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

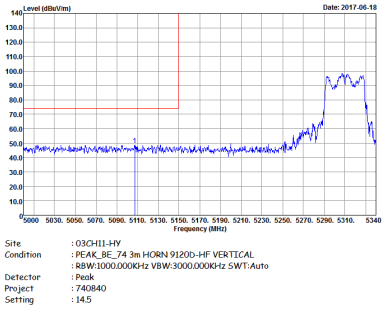
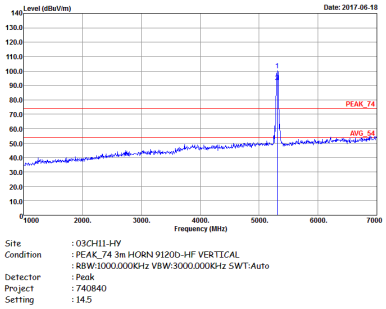
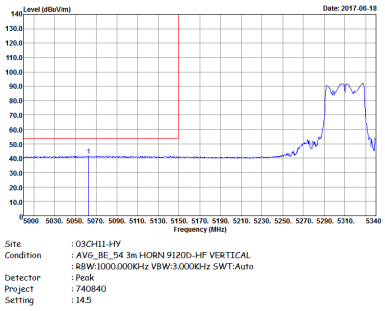
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

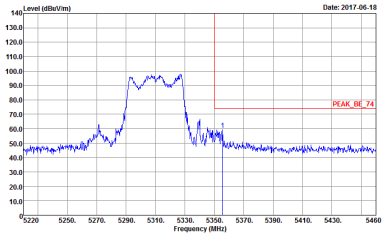
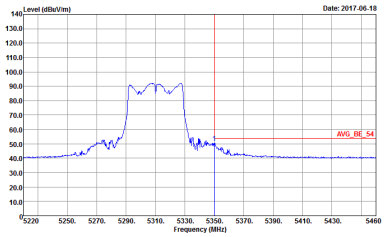
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak		
Avg.		Left blank

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

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

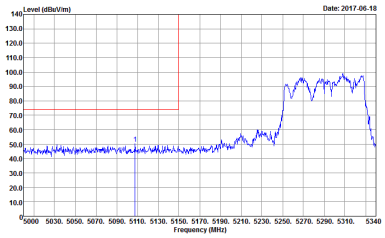
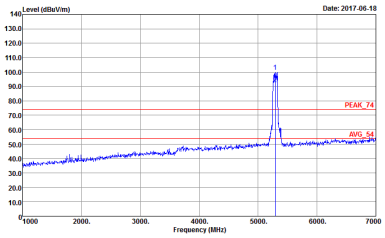
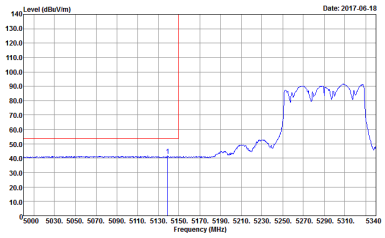
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

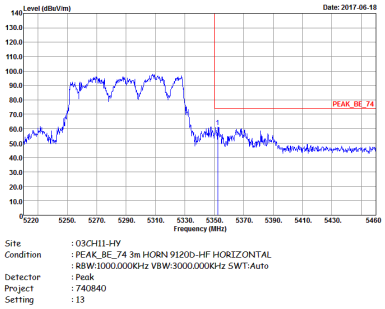
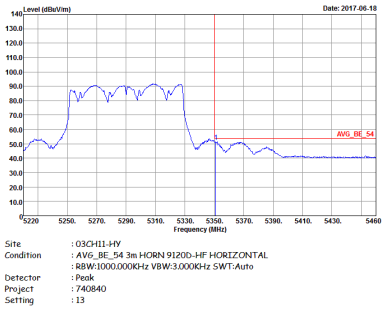
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

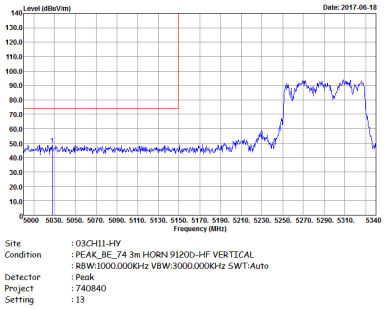
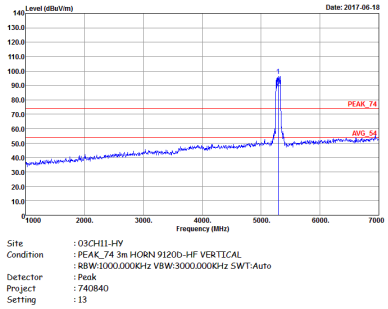
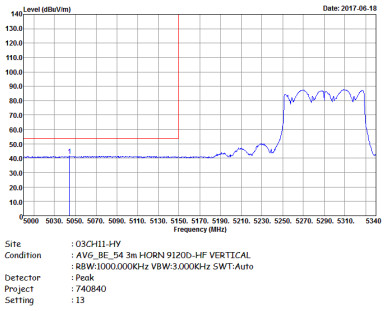
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 14.5	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 14.5	Left blank

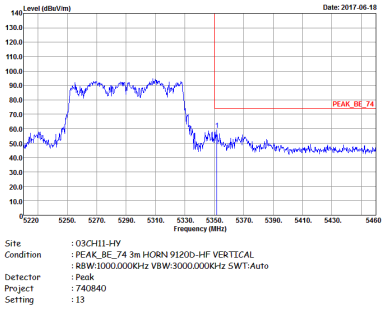
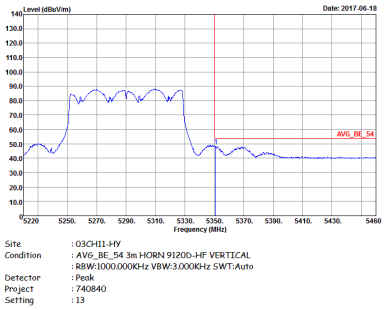
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 13	Left blank

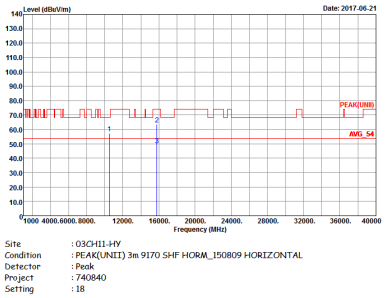
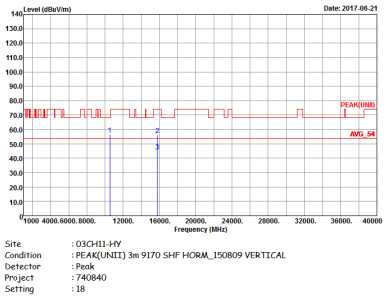
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

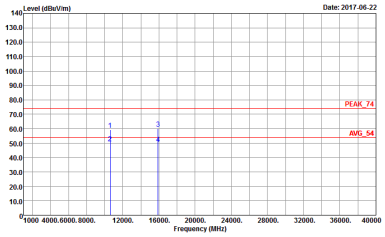
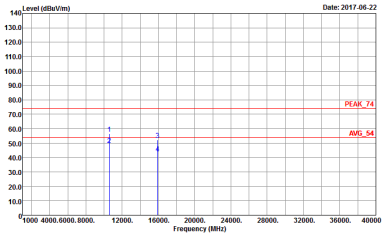
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

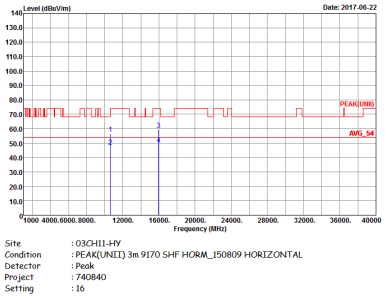
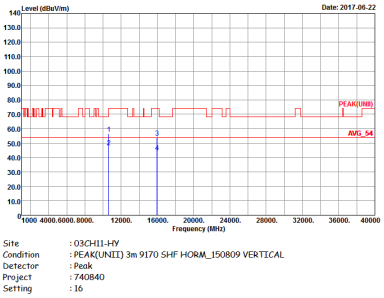
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

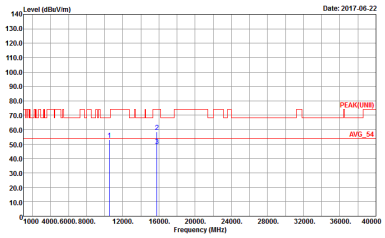
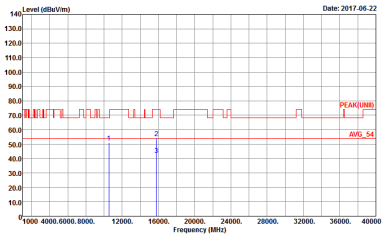
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

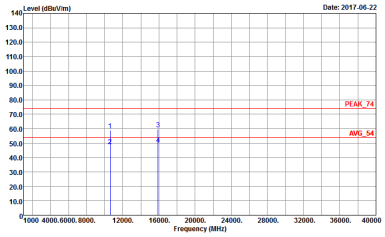
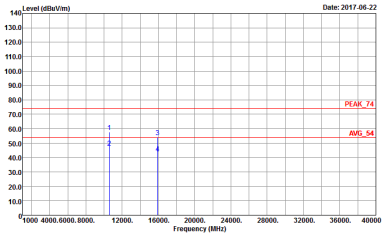
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 17	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 17

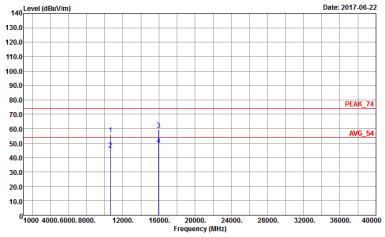
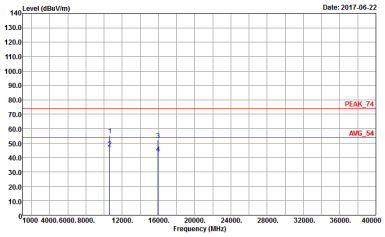
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 16	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 16

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

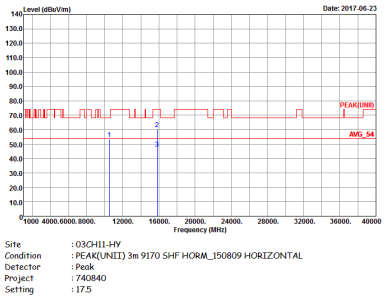
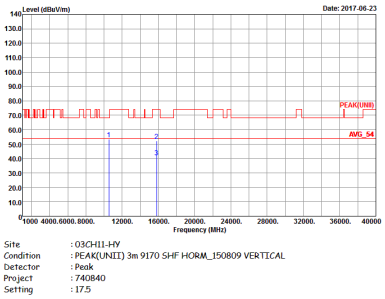
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

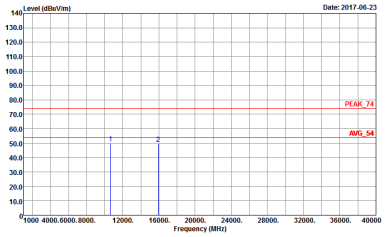
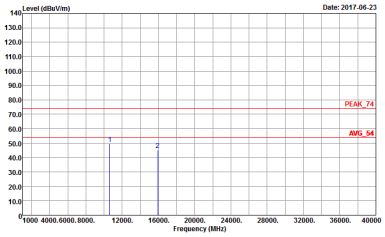
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

Band 2 5250~5350MHz

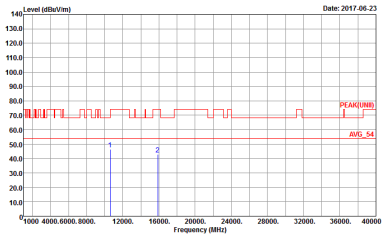
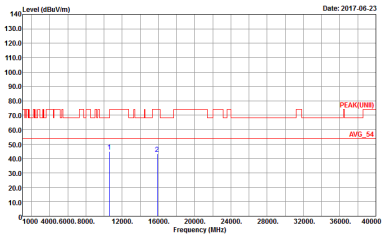
WIFI 802.11n HT40 (Harmonic @ 3m)

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

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 14.5	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 14.5

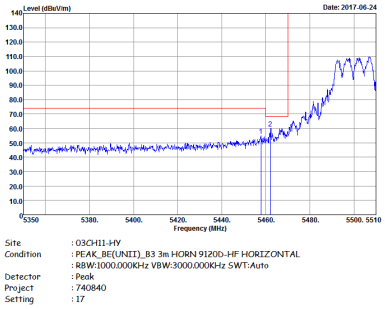
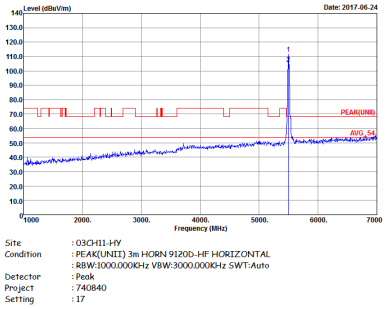
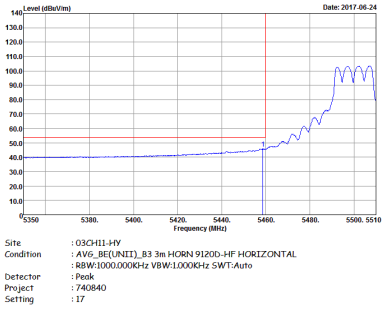
Band 2 5250~5350MHz

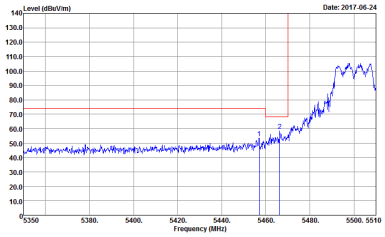
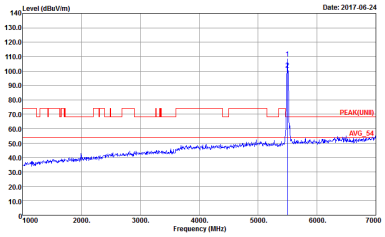
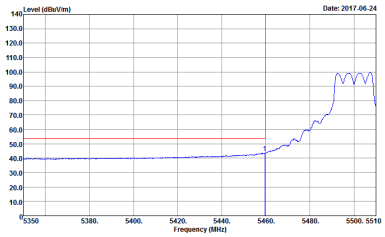
WIFI 802.11ac VHT80 (Harmonic @ 3m)

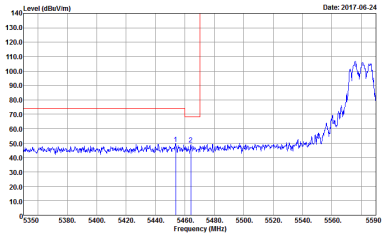
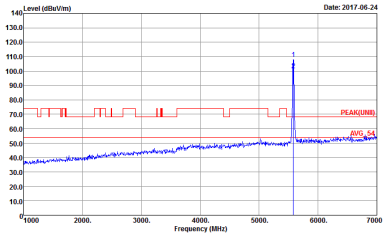
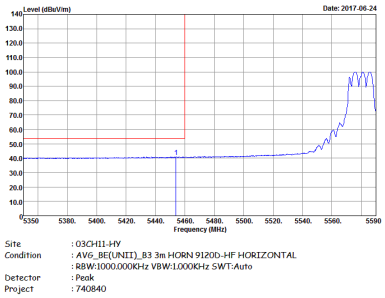
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 13	 Site : 03CH11-HV Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 13

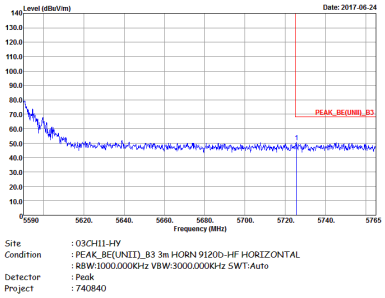
Band 3 - 5470~5725MHz

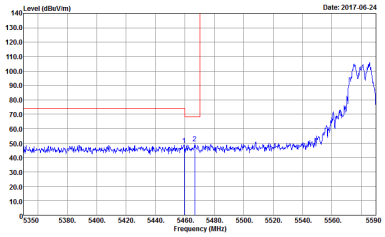
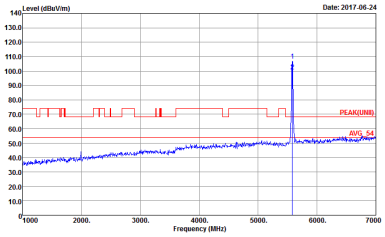
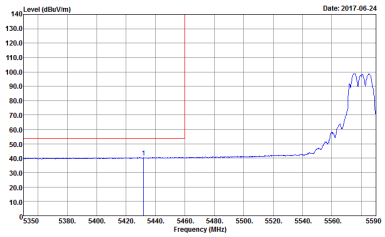
WIFI 802.11a (Band Edge @ 3m)

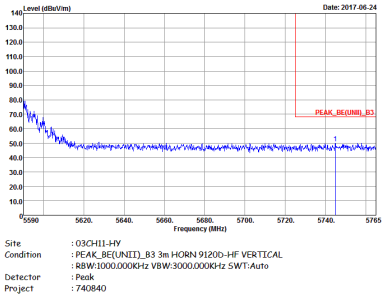
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

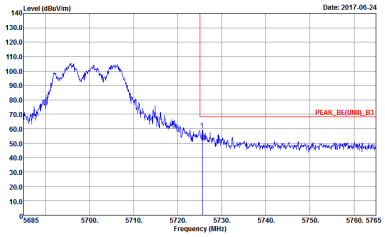
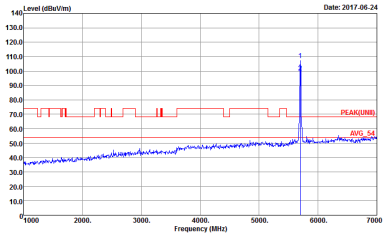
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 17	Left blank

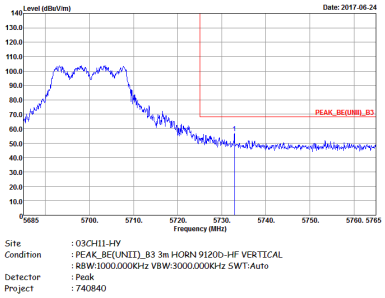
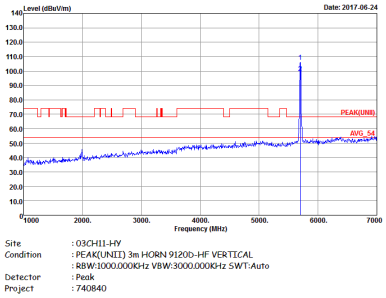
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840	Left blank

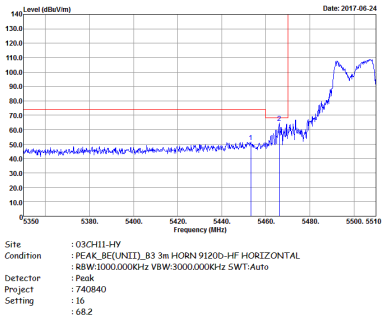
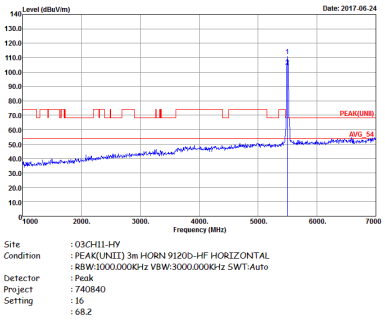
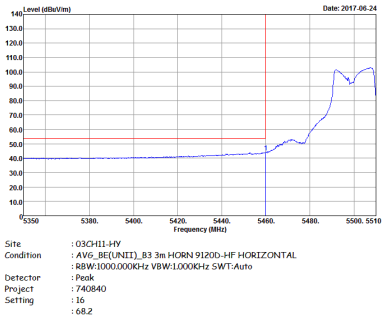
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

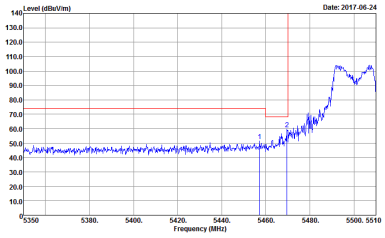
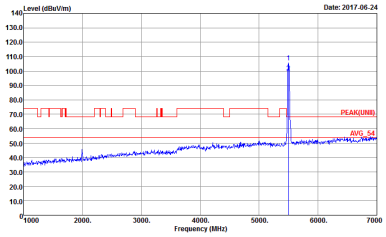
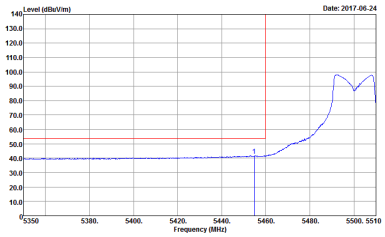
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

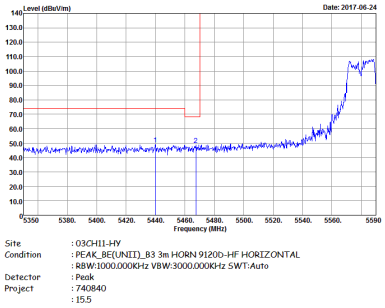
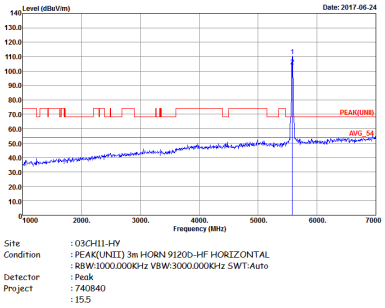
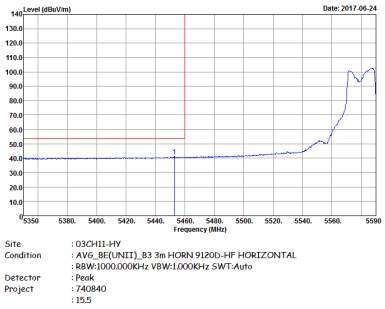
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		

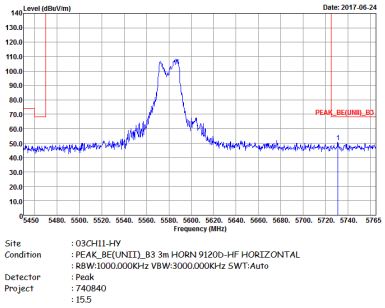
Band 3 5470~5725MHz

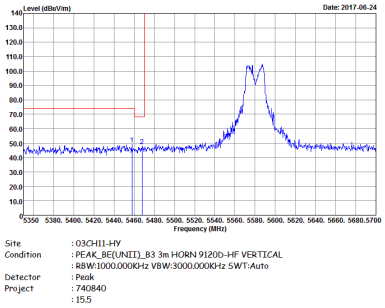
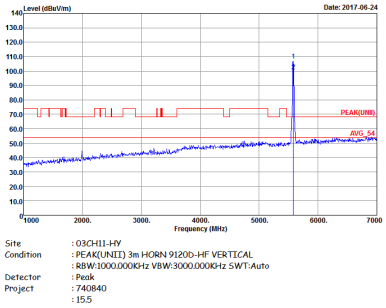
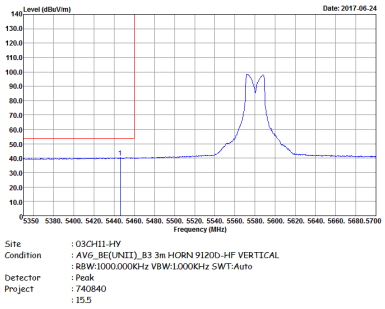
WIFI 802.11n HT20 (Band Edge @ 3m)

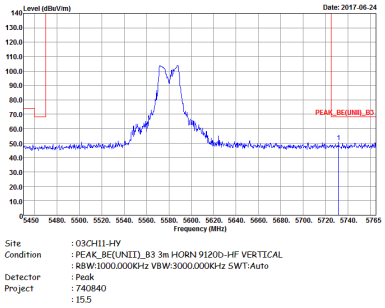
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

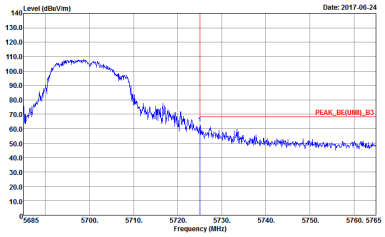
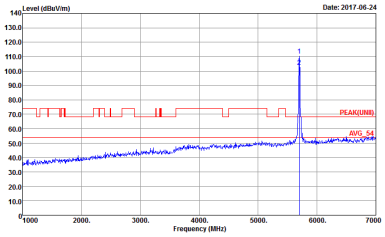
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16 : 68.2
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740840 Setting : 16 : 68.2	Left blank

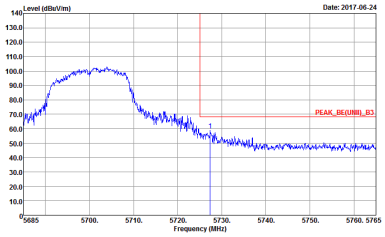
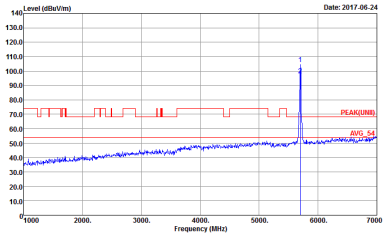
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

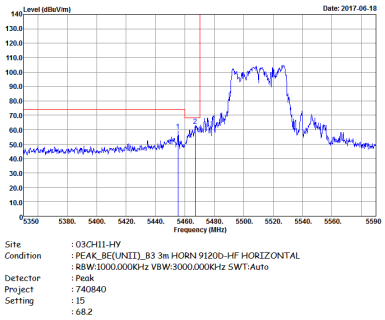
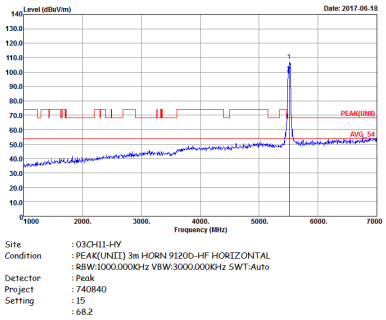
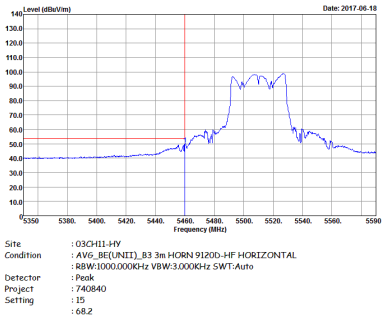
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

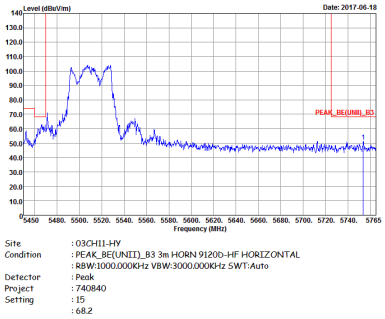
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

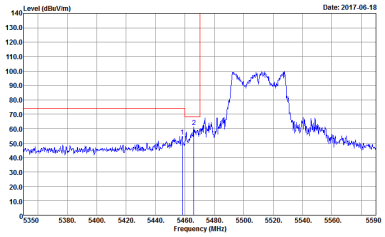
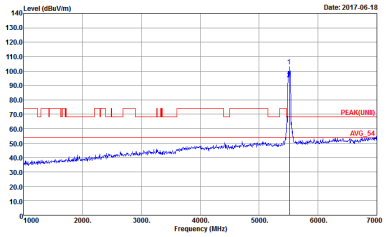
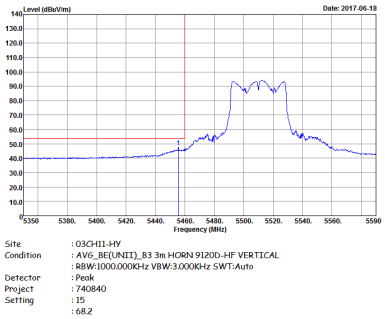
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.		

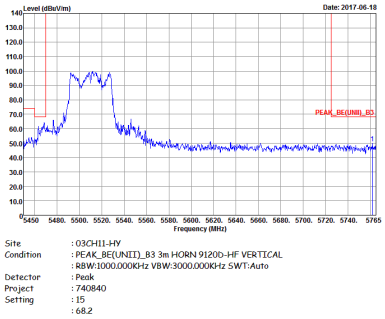
Band 3 5470~5725MHz

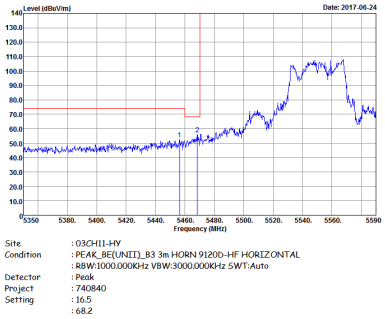
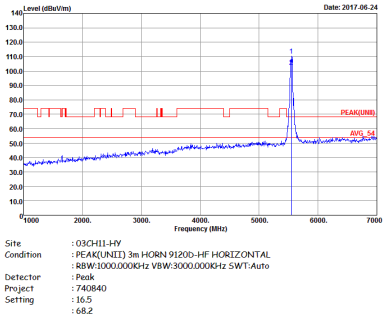
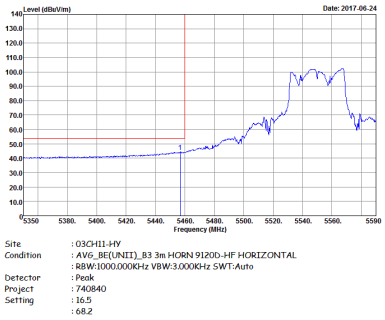
WIFI 802.11n HT40 (Band Edge @ 3m)

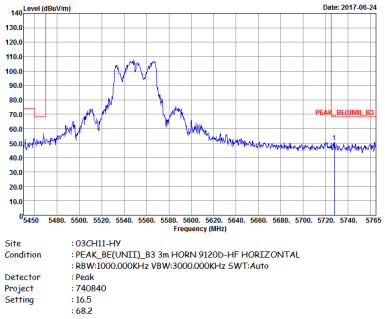
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

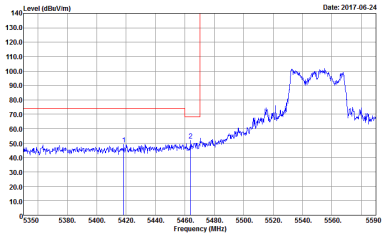
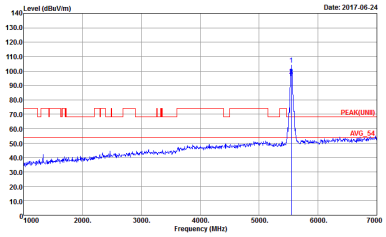
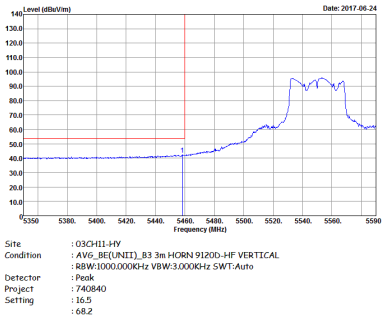
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

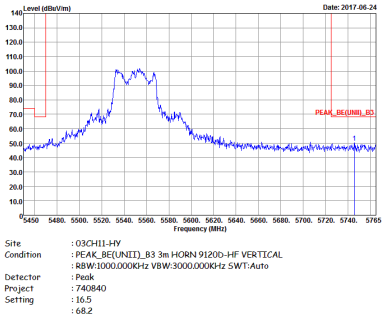
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

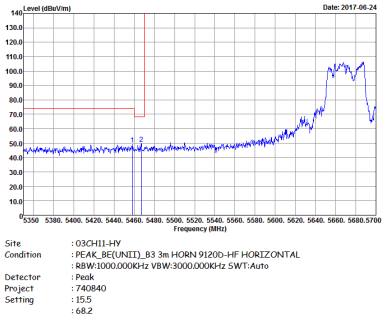
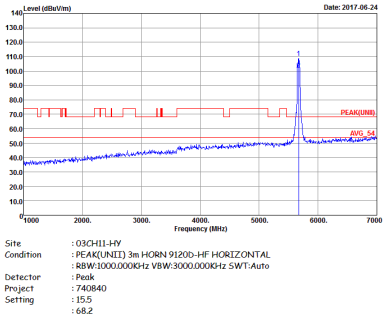
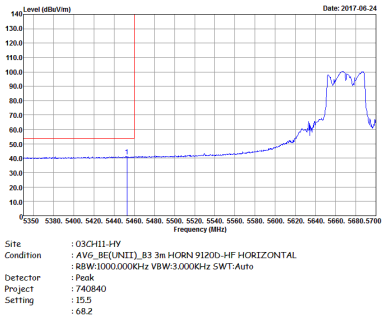
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

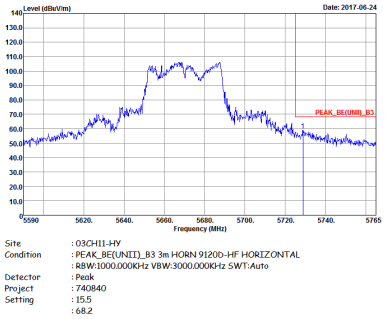
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

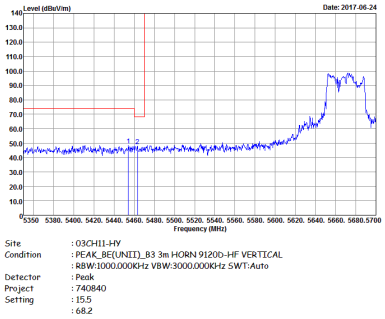
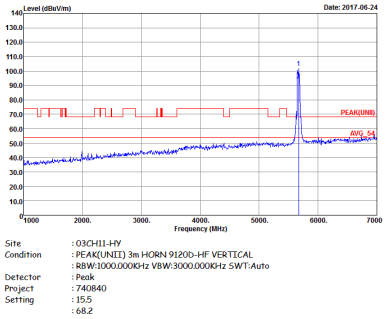
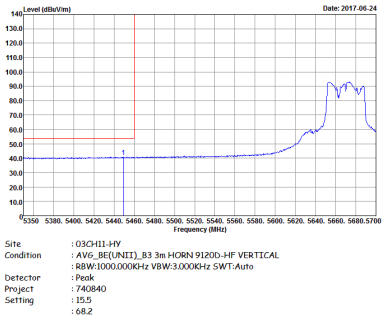
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

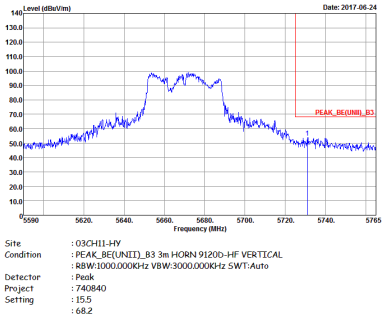
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

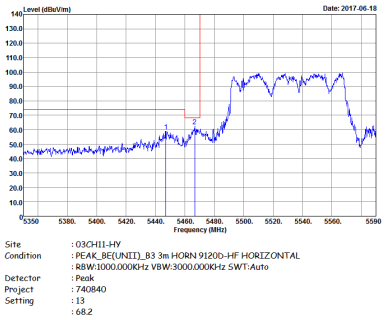
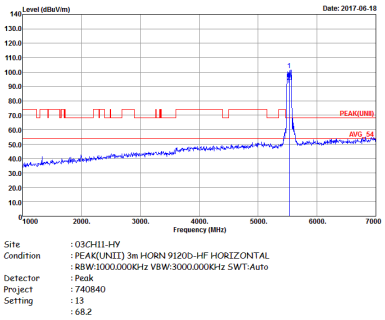
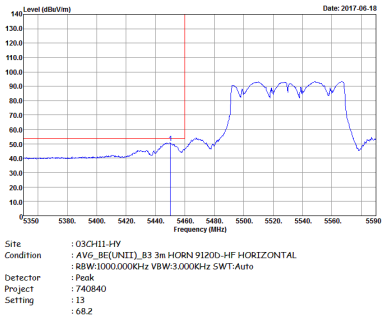
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

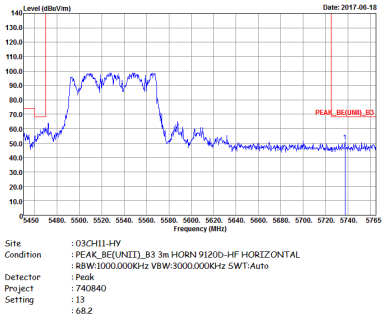
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

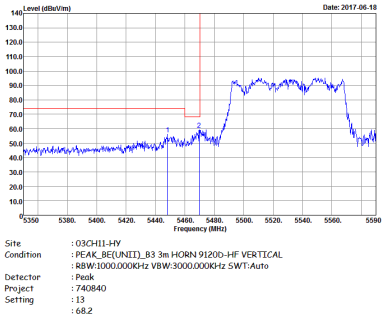
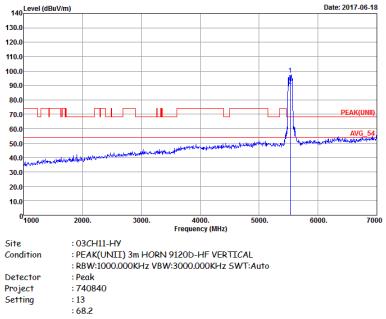
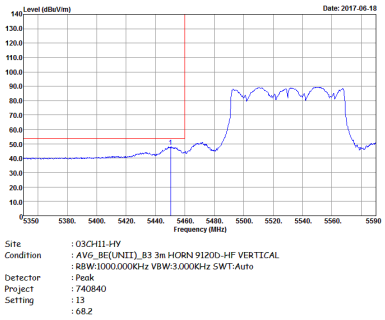
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

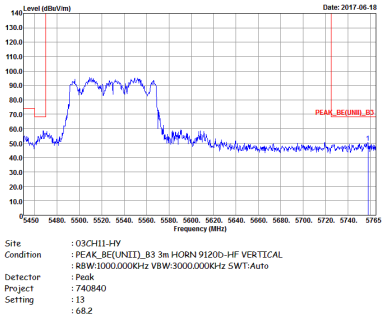
Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

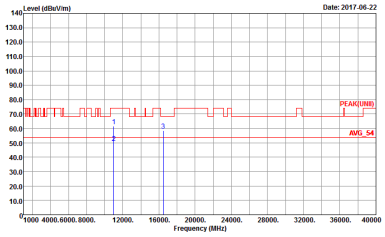
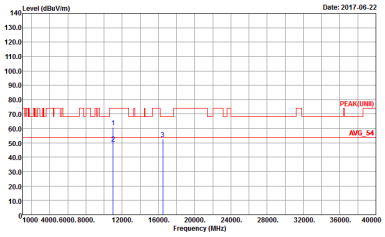
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

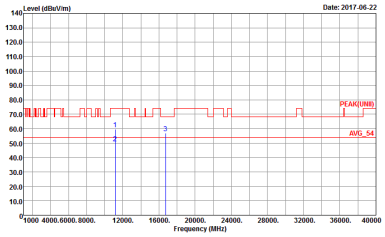
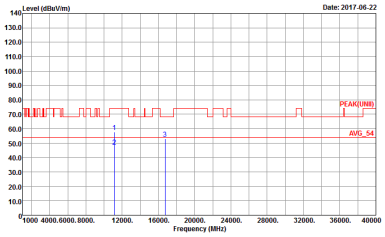
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

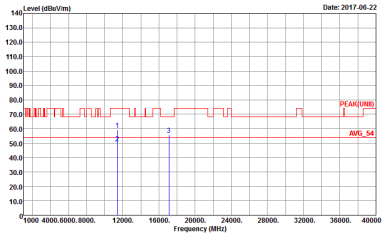
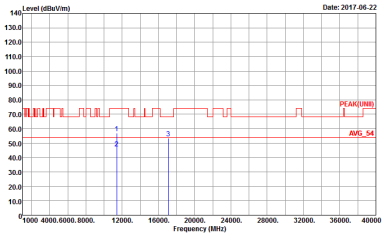
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

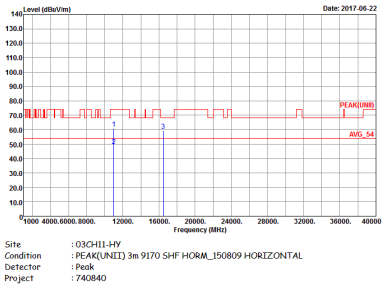
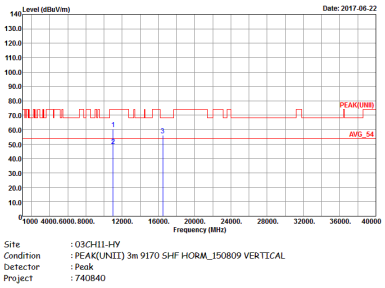
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 17	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 17

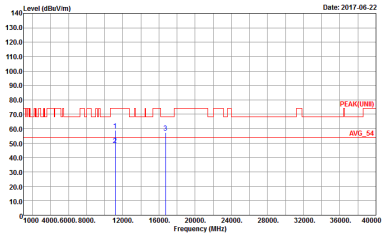
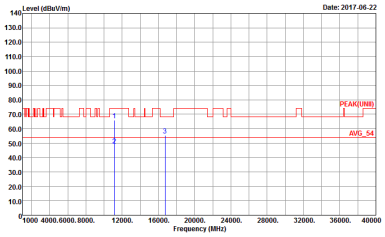
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

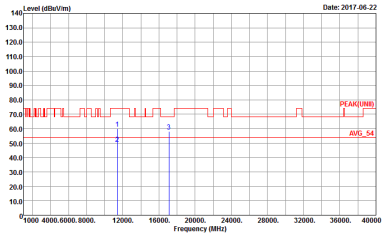
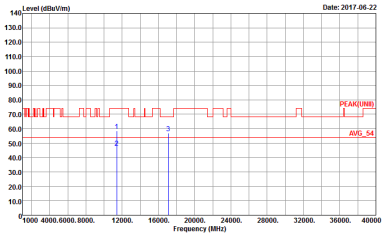
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

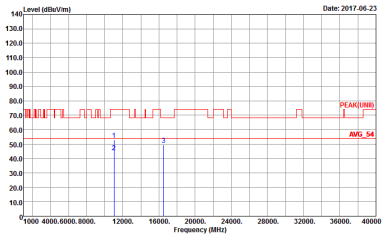
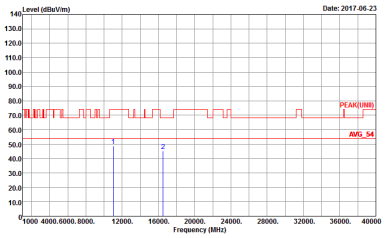
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

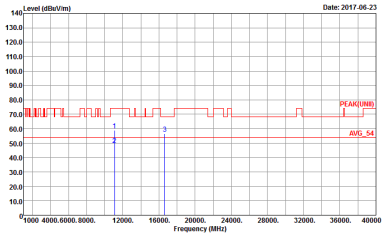
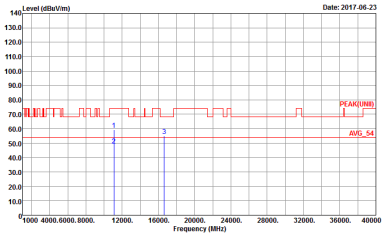
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

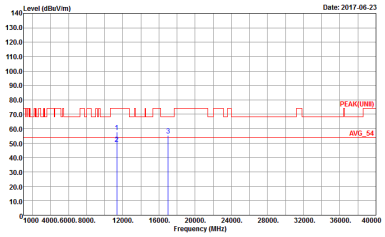
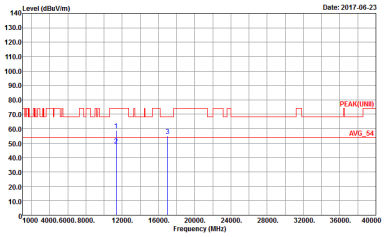
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORN_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 740840

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

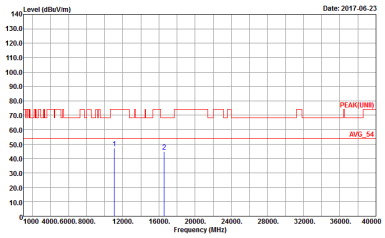
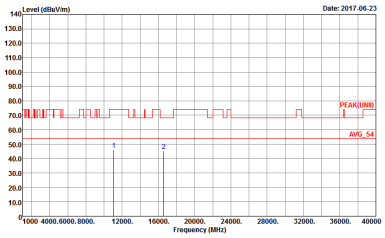
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 15	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 15

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840

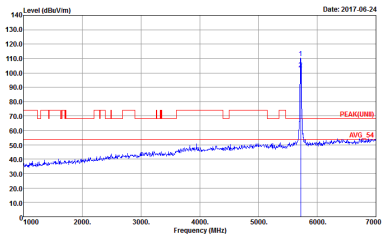
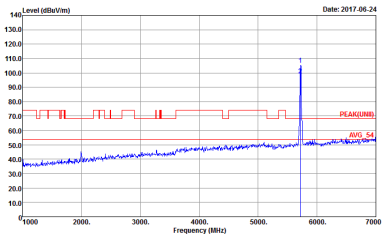
Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak Project : 740840 Setting : 13 : 68.2	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak Project : 740840 Setting : 13 : 68.2

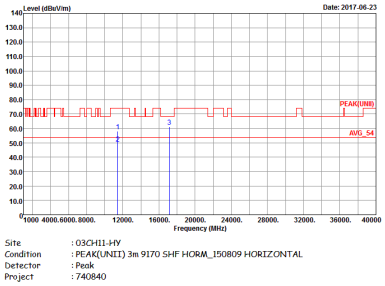
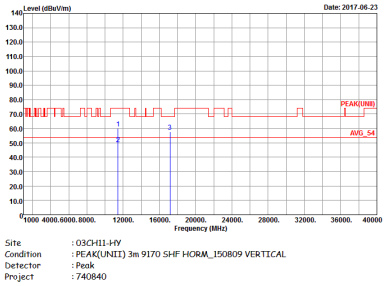
Band 3 - Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5720.00 110.19 41.99 68.20 100.56 32.94 9.82 33.13 219 65 Peak 2 * 5720.00 102.61 48.61 54.00 92.98 32.94 9.82 33.13 219 65 Average	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740840 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5720.00 105.59 37.39 68.20 95.96 32.94 9.82 33.13 100 104 Peak 2 * 5720.00 98.12 44.12 54.00 88.49 32.94 9.82 33.13 100 104 Average

Band 3 - Straddle Channel

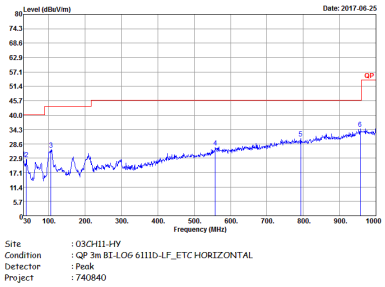
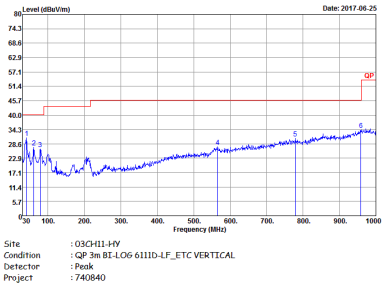
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

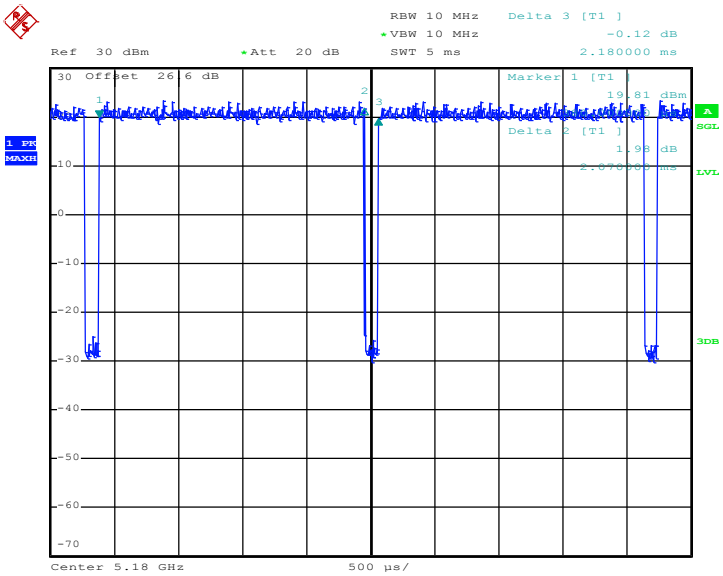
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1 + 2	802.11a for Ant. 1	94.95	2070	0.48	1kHz
1 + 2	802.11a for Ant. 2	94.98	2080	0.48	
1 + 2	5GHz 802.11n HT20 for Ant. 1	94.12	1920	0.52	
1 + 2	5GHz 802.11n HT20 for Ant. 2	94.61	1930	0.52	
1 + 2	5GHz 802.11n HT40 for Ant. 1	90.29	948	1.05	3kHz
1 + 2	5GHz 802.11n HT40 for Ant. 2	89.77	948	1.05	
1 + 2	5GHz 802.11ac VHT20 for Ant. 1	94.63	1940	0.52	1kHz
1 + 2	5GHz 802.11ac VHT20 for Ant. 2	94.63	1940	0.52	
1 + 2	5GHz 802.11ac VHT40 for Ant. 1	89.80	951	1.05	3kHz
1 + 2	5GHz 802.11ac VHT40 for Ant. 2	90.06	951	1.05	
1 + 2	5GHz 802.11ac VHT80 for Ant. 1	85.71	648	1.54	
1 + 2	5GHz 802.11ac VHT80 for Ant. 2	86.63	648	1.54	

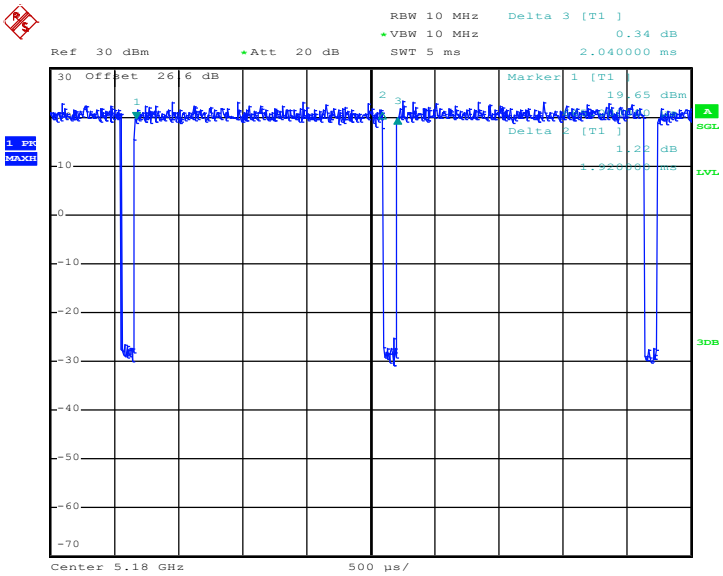
MIMO <Ant. 1>

802.11a



Date: 6.JUL.2017 16:33:25

802.11n HT20



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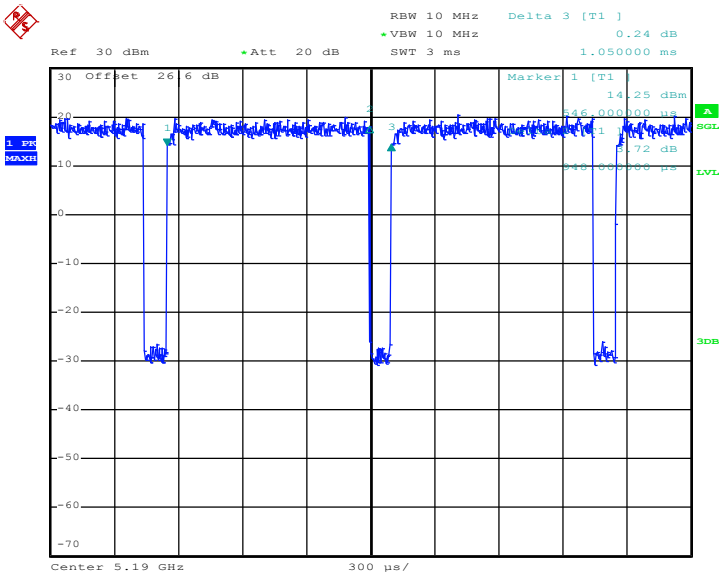
802.11n HT40



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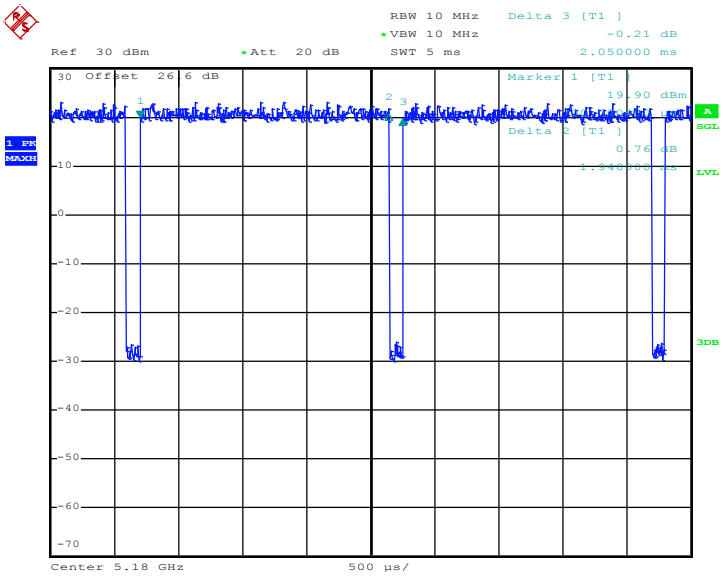
802.11ac VHT20



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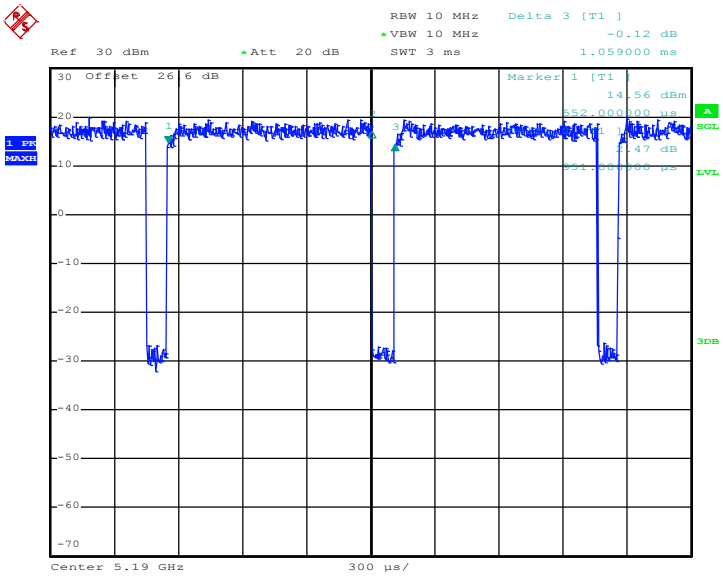
802.11ac VHT40



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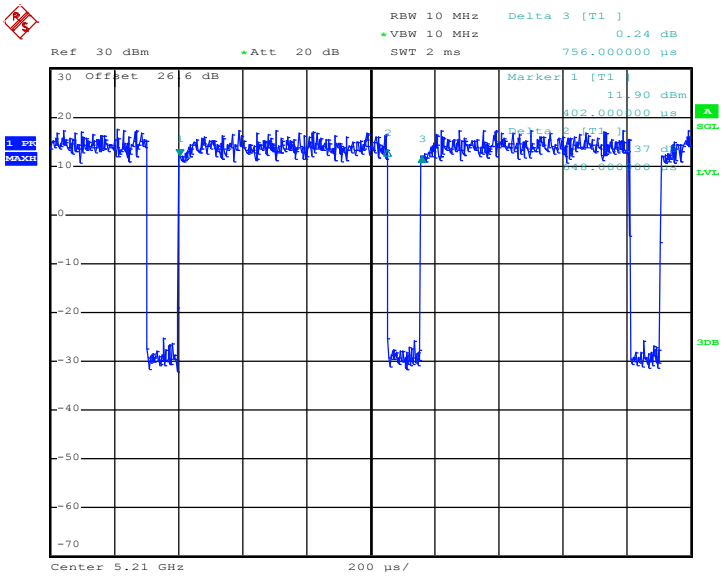
802.11ac VHT80



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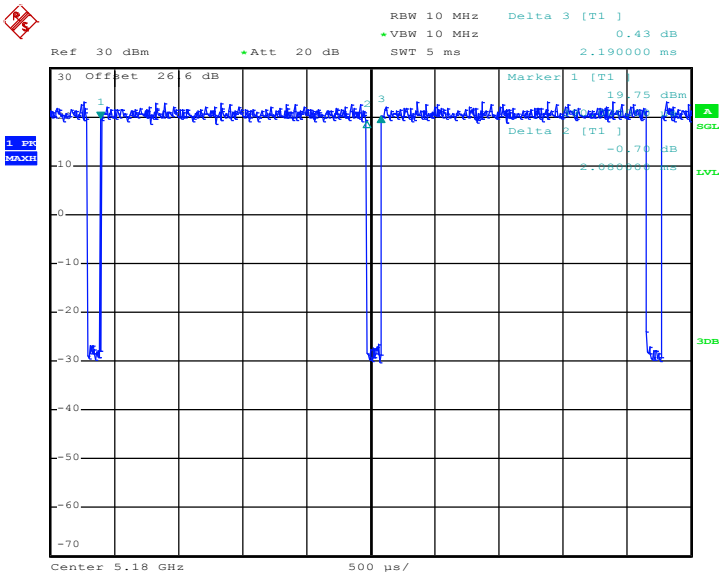
MIMO <Ant. 2>

802.11a



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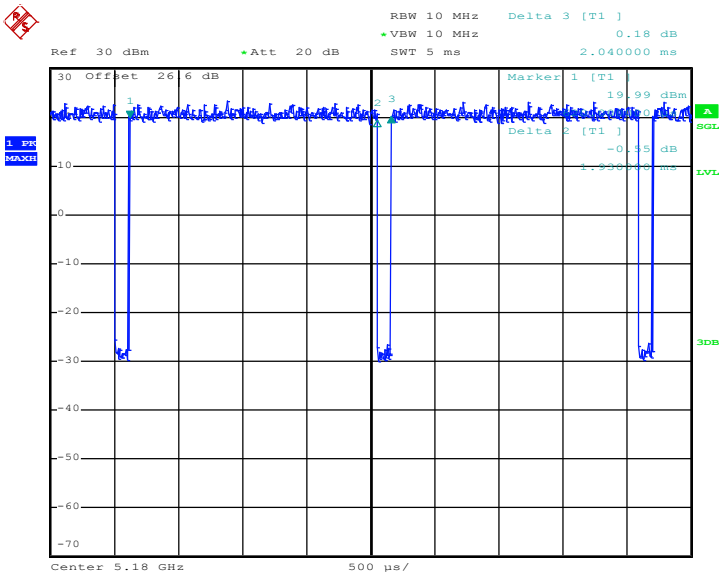

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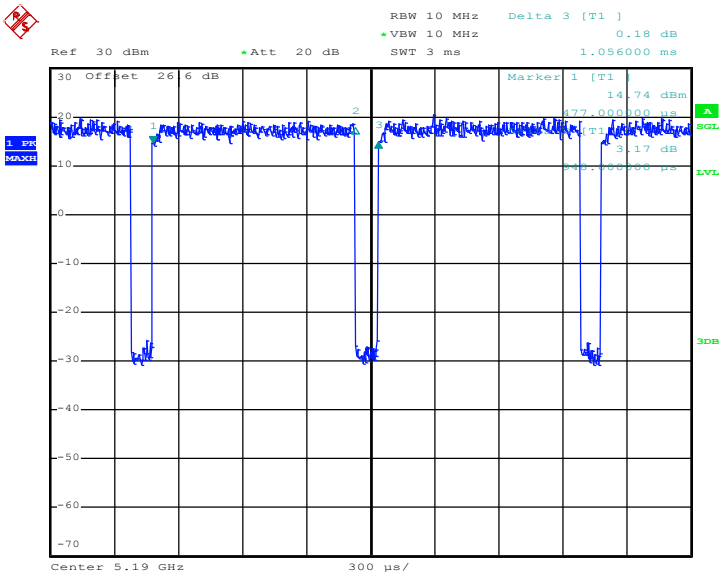

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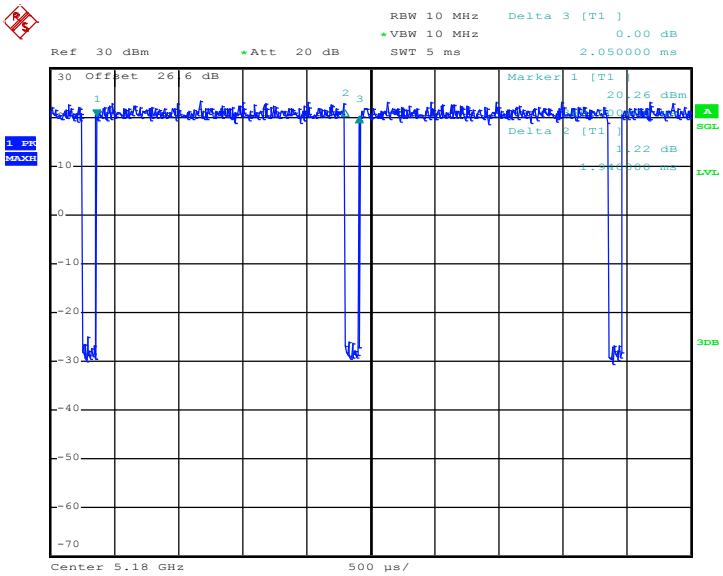

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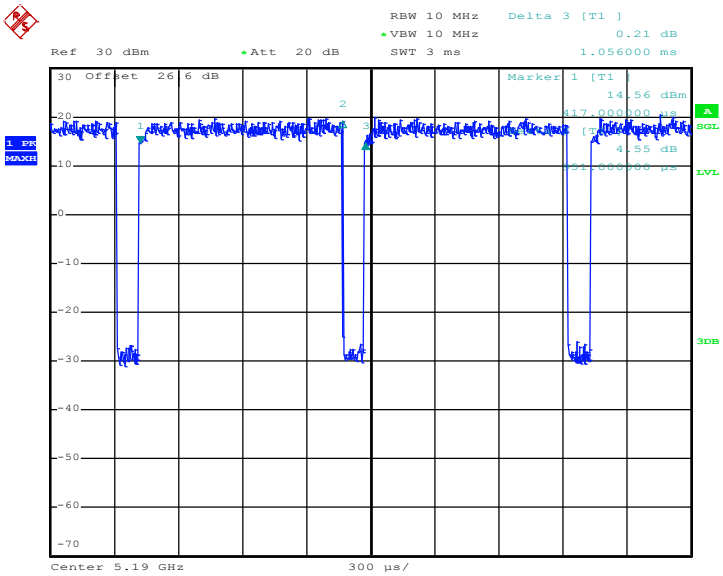

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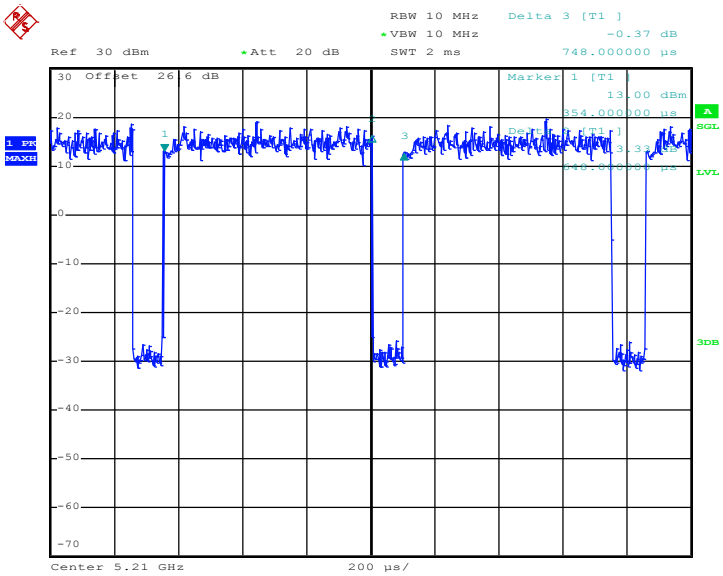

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