FCC RADIO TEST REPORT

FCC ID	:	**ACJFZT1A**
Equipment	:	**Tablet Computer**
Brand Name	:	**Panasonic**
Model Name	:	**FZ-T1BB, FZ-T1BC**
Marketing Name	:	**FZ-T1**
Applicant	:	**Panasonic Corporation of North America Two Riverfront Plaza, 9th Floor, Newark, NJ 07102-5490**
Manufacturer	:	**Panasonic Mobile Communications Co., Ltd. 600 Saedo-cho, Tsuzuki-ku, Yokohama City 224-8539, Japan**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 04, 2018 and testing was started from Jul. 17, 2018 and completed on Jul. 31, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Jones Tsai

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR870417E	01	Initial issue of report	Aug. 22, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 6.68 dB at 5351.760 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.42 dB at 13.792 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Polly Tsai

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, NFC, and GNSS.

Product Specification subjective to this standard	
Sample 1	FZ-T1BB
Sample 2	FZ-T1BC
Antenna Type	WWAN: Fixed Internal Antenna WLAN: Monopole Antenna Bluetooth: Monopole Antenna NFC: Loop Antenna GPS/Glonass: Monopole Antenna

Remark:

1. WWAN function of Model: FZ-T1BC is disabled by the embedded software; cannot and will not be enabled via the end user or the grantee.
2. All test items were performed with sample 1

1.2 Modification of EUT

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

1.3 Testing Location

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

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

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

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

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

1.4 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

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
	-	-		

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
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Note: The above Frequency and Channel in "*" were 802.11n HT40.

2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

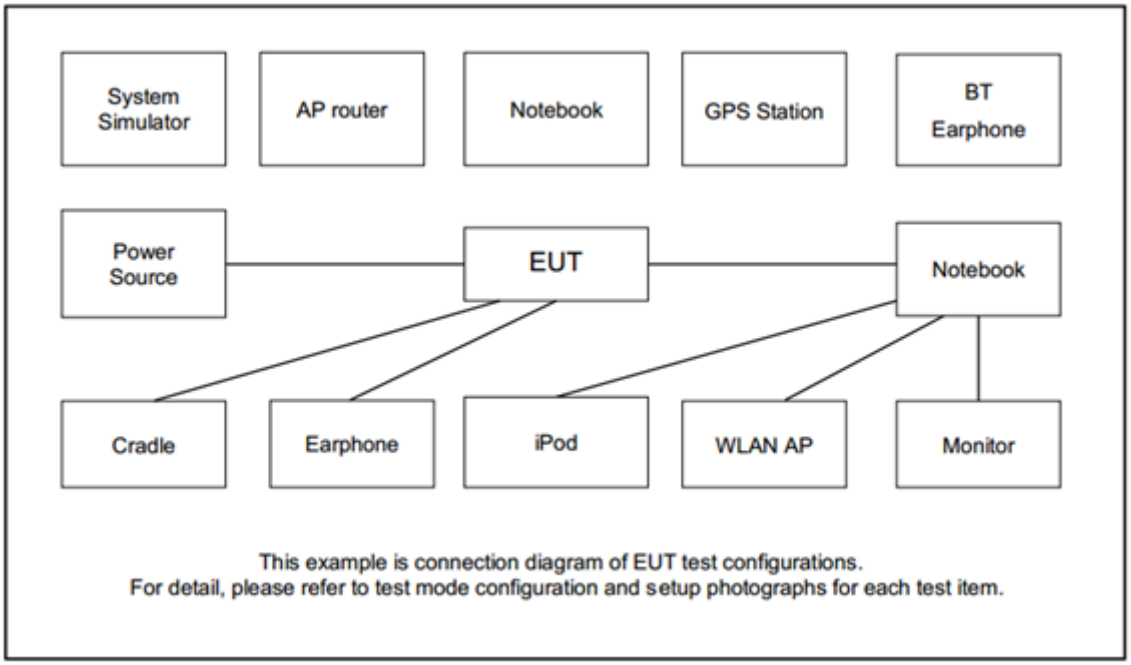
Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 5 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + Earphone + SD Card + USB Cable (Data Link with Notebook) + Cradle (Charging from Adapter)
Remark: Data Linking with Notebook means data application transferred mode between EUT and Notebook.	

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

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded ,1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
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.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
8.	iPhone Earphone	Apple	A1387	FCC DoC	Unshielded, 1.2 m	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 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.

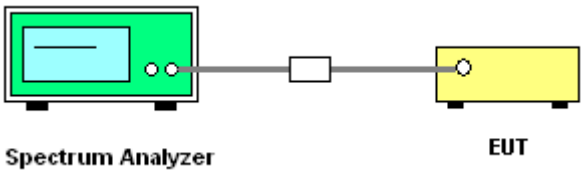
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

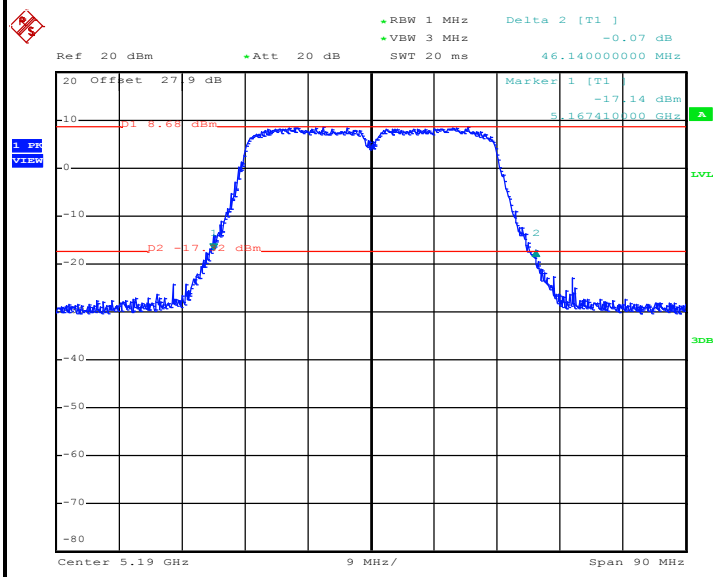
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

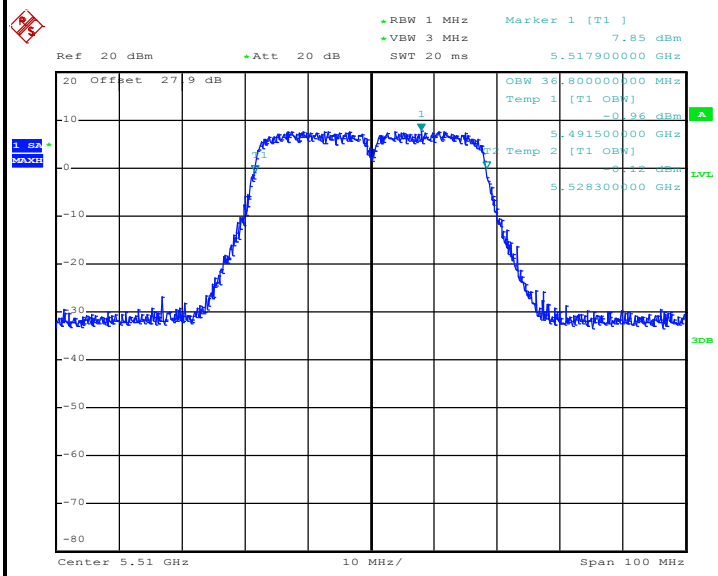
Please refer to Appendix A.

Maximum 26dB Bandwidth



Date: 29.JUL.2018 07:59:27

Maximum 99% Occupied Bandwidth



Date: 29.JUL.2018 08:25:33

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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

- For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

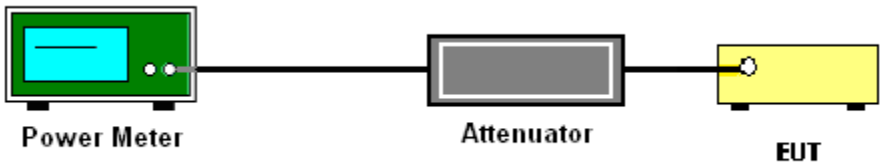
3.2.3 Test Procedures

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

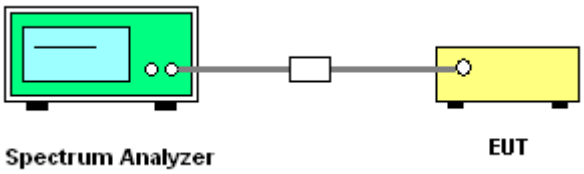
 # Method SA-2 #

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

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

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

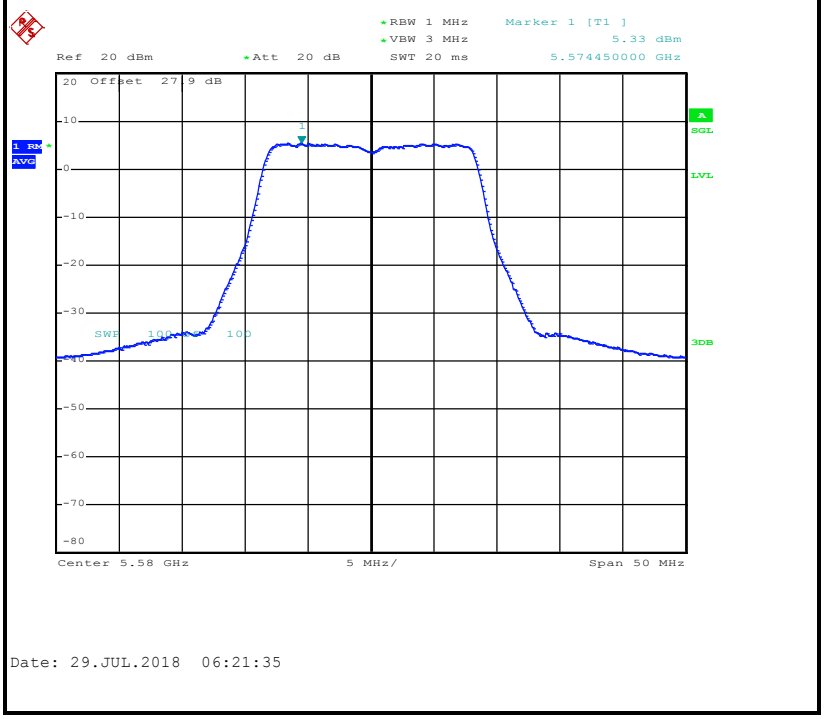
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

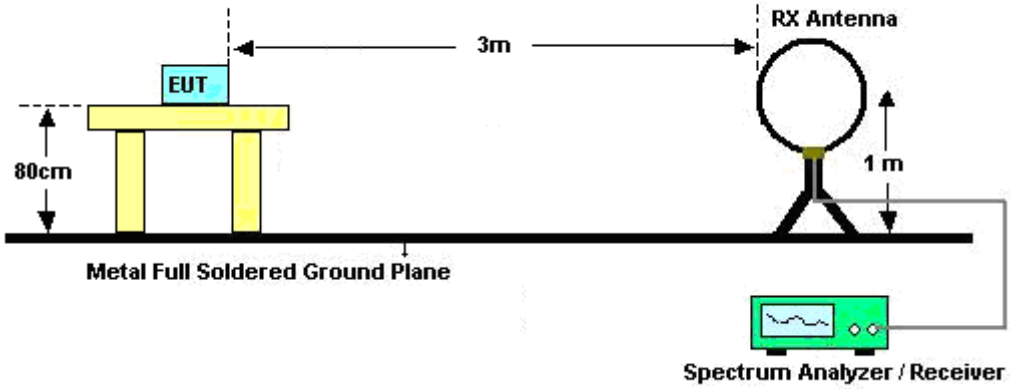
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

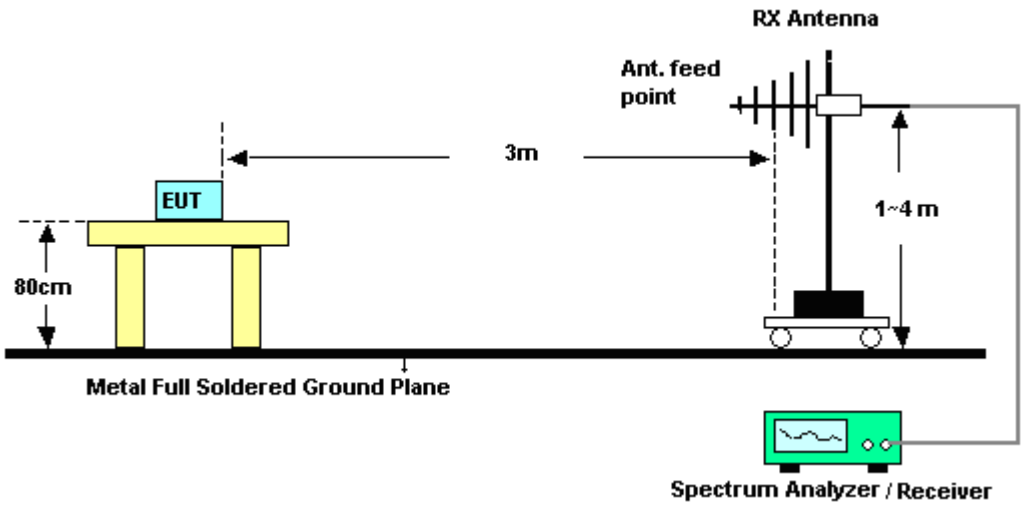
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

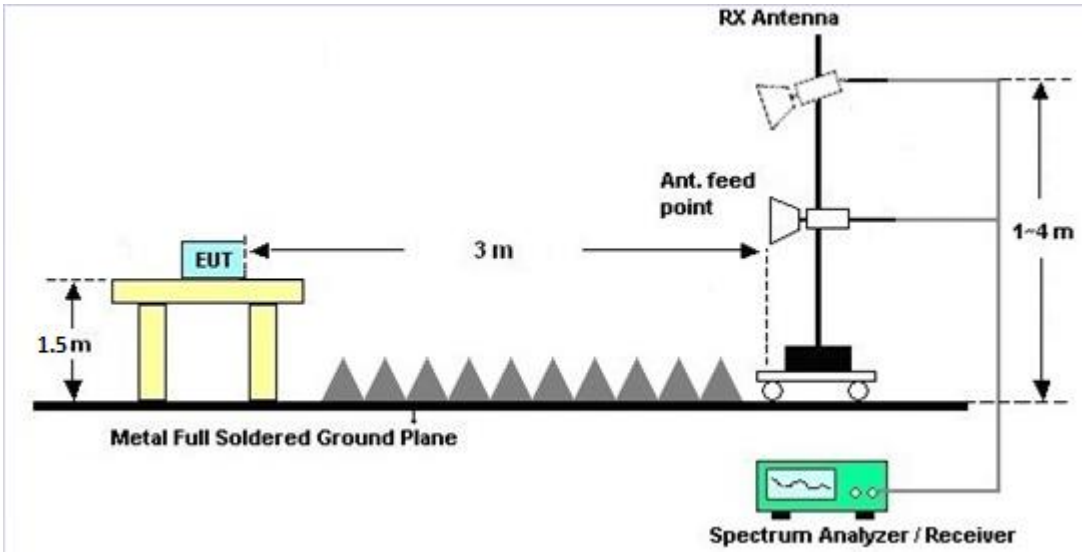
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

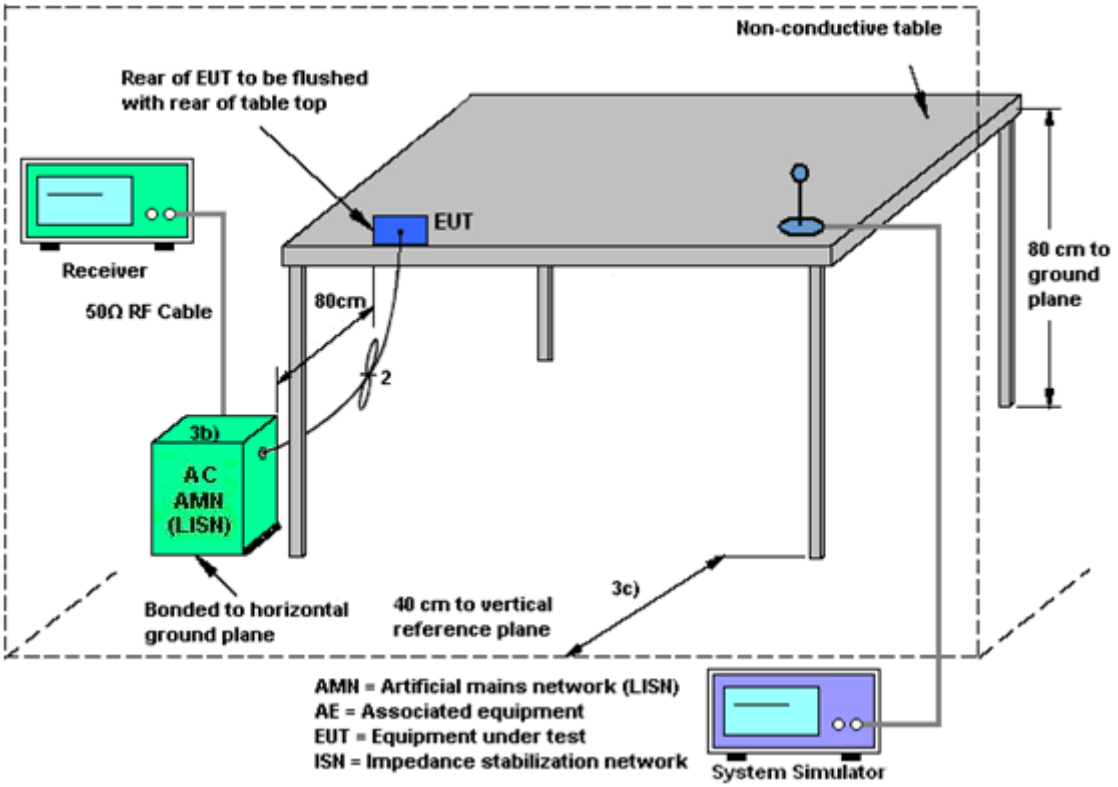
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	Jul. 17, 2018~ Jul. 29, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Jul. 17, 2018~ Jul. 29, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jul. 17, 2018~ Jul. 29, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jul. 17, 2018~ Jul. 29, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 24, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jul. 24, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jul. 24, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Jul. 24, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 24, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jul. 24, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jul. 24, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	Jul. 26, 2018~ Jul. 31, 2018	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Jul. 26, 2018~ Jul. 31, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	Jul. 26, 2018~ Jul. 31, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 16, 2017	Jul. 26, 2018~ Jul. 31, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jul. 26, 2018~ Jul. 31, 2018	Nov. 22, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Jan. 16, 2018	Jul. 26, 2018~ Jul. 31, 2018	Jan. 15, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2017	Jul. 26, 2018~ Jul. 31, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jul. 26, 2018~ Jul. 31, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jul. 26, 2018~ Jul. 31, 2018	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800054001	1GHz~18GHz	Apr. 16, 2018	Jul. 26, 2018~ Jul. 31, 2018	Apr. 15, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jul. 26, 2018~ Jul. 31, 2018	Nov. 26, 2018	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 14, 2018	Jul. 26, 2018~ Jul. 31, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 14, 2018	Jul. 26, 2018~ Jul. 31, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 14, 2018	Jul. 26, 2018~ Jul. 31, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 14, 2018	Jul. 26, 2018~ Jul. 31, 2018	Mar. 13, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 18, 2017	Jul. 26, 2018~ Jul. 31, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 18, 2017	Jul. 26, 2018~ Jul. 31, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	2.7G High Pass	Sep. 18, 2017	Jul. 26, 2018~ Jul. 31, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jul. 26, 2018~ Jul. 31, 2018	N/A	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

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

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 / Shiang Wang	Temperature:	21~25	°C
Test Date:	2018/7/17~2018/7/29	Relative Humidity:	51~54	%

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	1	36	5180	17.05	-	24.53	-	-		22.32	-		
11a	6Mbps	1	44	5220	17.25	-	23.80	-	-		22.37	-		
11a	6Mbps	1	48	5240	17.20	-	24.10	-	-		22.36	-		
HT20	MCS0	1	36	5180	18.00	-	25.36	-	-		22.55	-		
HT20	MCS0	1	44	5220	18.10	-	24.66	-	-		22.58	-		
HT20	MCS0	1	48	5240	18.15	-	24.00	-	-		22.59	-		
HT40	MCS0	1	38	5190	36.70	-	46.14	-	-		23.01	-		
HT40	MCS0	1	46	5230	36.70	-	44.82	-	-		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	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.62	-	14.42	-	24.00	-	2.00	-		Pass
11a	6Mbps	1	44	5220	0.62	-	14.47	-	24.00	-	2.00	-		Pass
11a	6Mbps	1	48	5240	0.62	-	14.14	-	24.00	-	2.00	-		Pass
HT20	MCS0	1	36	5180	0.63	-	14.48	-	24.00	-	2.00	-		Pass
HT20	MCS0	1	44	5220	0.63	-	14.49	-	24.00	-	2.00	-		Pass
HT20	MCS0	1	48	5240	0.63	-	14.08	-	24.00	-	2.00	-		Pass
HT40	MCS0	1	38	5190	0.69	-	14.19	-	24.00	-	2.00	-		Pass
HT40	MCS0	1	46	5230	0.69	-	14.09	-	24.00	-	2.00	-		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	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.62	-	3.10	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	44	5220	0.62	-	3.30	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	48	5240	0.62	-	2.70	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	36	5180	0.63	-	2.93	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	44	5220	0.63	-	3.10	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	48	5240	0.63	-	2.43	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	38	5190	0.69	-	-0.18	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	46	5230	0.69	-	0.00	-	11.00	-	2.00	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.05	-	24.60	-	23.32	-	29.32	-	23.98	-	
11a	6Mbps	1	60	5300	17.10	-	25.00	-	23.33	-	29.33	-	23.98	-	
11a	6Mbps	1	64	5320	17.05	-	23.60	-	23.32	-	29.32	-	23.98	-	
HT20	MCS0	1	52	5260	18.15	-	24.26	-	23.59	-	29.59	-	23.98	-	
HT20	MCS0	1	60	5300	18.20	-	24.07	-	23.60	-	29.60	-	23.98	-	
HT20	MCS0	1	64	5320	18.10	-	24.10	-	23.58	-	29.58	-	23.98	-	
HT40	MCS0	1	54	5270	36.60	-	45.54	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.60	-	45.29	-	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	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.62	-	17.22	-	23.98	-	2.00	-	30	Pass
11a	6Mbps	1	60	5300	0.62	-	17.24	-	23.98	-	2.00	-	30	Pass
11a	6Mbps	1	64	5320	0.62	-	14.33	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	52	5260	0.63	-	16.20	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	60	5300	0.63	-	16.48	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	64	5320	0.63	-	14.10	-	23.98	-	2.00	-	30	Pass
HT40	MCS0	1	54	5270	0.69	-	14.33	-	23.98	-	2.00	-	30	Pass
HT40	MCS0	1	62	5310	0.69	-	14.46	-	23.98	-	2.00	-	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	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.62	-	5.78	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	60	5300	0.62	-	5.80	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	64	5320	0.62	-	2.62	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	52	5260	0.63	-	4.46	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	60	5300	0.63	-	4.94	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	64	5320	0.63	-	2.36	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	54	5270	0.69	-	-0.23	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	62	5310	0.69	-	-0.33	-	11.00	-	2.00	-		Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	17.05	-	23.80	-	23.32	-	29.32	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.15	-	23.80	-	23.34	-	29.34	-	23.98	-	----	----
11a	6Mbps	1	140	5700	17.20	-	23.80	-	23.36	-	29.36	-	23.98	-	----	----
HT20	MCS0	1	100	5500	18.20	-	24.00	-	23.60	-	29.60	-	23.98	-	----	----
HT20	MCS0	1	116	5580	18.10	-	25.96	-	23.58	-	29.58	-	23.98	-	----	----
HT20	MCS0	1	140	5700	18.15	-	26.00	-	23.59	-	29.59	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.80	-	45.67	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.70	-	45.90	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.60	-	45.09	-	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	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.62	-	14.09	-	23.98	-	2.00	-	30	Pass
11a	6Mbps	1	116	5580	0.62	-	17.37	-	23.98	-	2.00	-	30	Pass
11a	6Mbps	1	140	5700	0.62	-	14.17	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	100	5500	0.63	-	14.33	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	116	5580	0.63	-	16.23	-	23.98	-	2.00	-	30	Pass
HT20	MCS0	1	140	5700	0.63	-	14.43	-	23.98	-	2.00	-	30	Pass
HT40	MCS0	1	102	5510	0.69	-	14.14	-	23.98	-	2.00	-	30	Pass
HT40	MCS0	1	110	5550	0.69	-	14.34	-	23.98	-	2.00	-	30	Pass
HT40	MCS0	1	134	5670	0.69	-	14.22	-	23.98	-	2.00	-	30	Pass

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TEST RESULTS DATA
Power Spectral Density

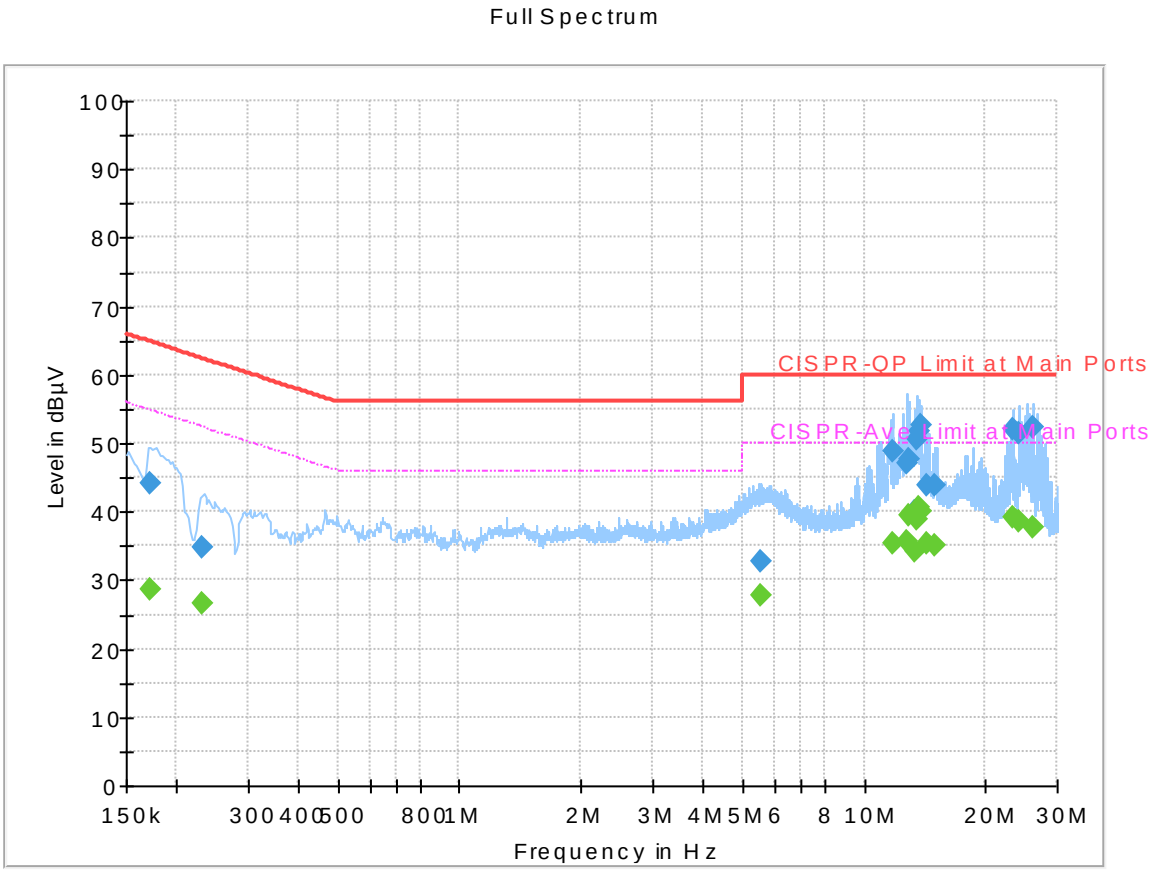
Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)		Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.62	-	2.42	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	116	5580	0.62	-	5.95	-	11.00	-	2.00	-		Pass
11a	6Mbps	1	140	5700	0.62	-	2.24	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	100	5500	0.63	-	2.54	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	116	5580	0.63	-	4.66	-	11.00	-	2.00	-		Pass
HT20	MCS0	1	140	5700	0.63	-	2.51	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	102	5510	0.69	-	-0.49	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	110	5550	0.69	-	-0.09	-	11.00	-	2.00	-		Pass
HT40	MCS0	1	134	5670	0.69	-	-0.41	-	11.00	-	2.00	-		Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	**Temperature :**	21~25℃
		Relative Humidity :	51~55%

EUT Information

Report NO :	870417
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



Final_Result

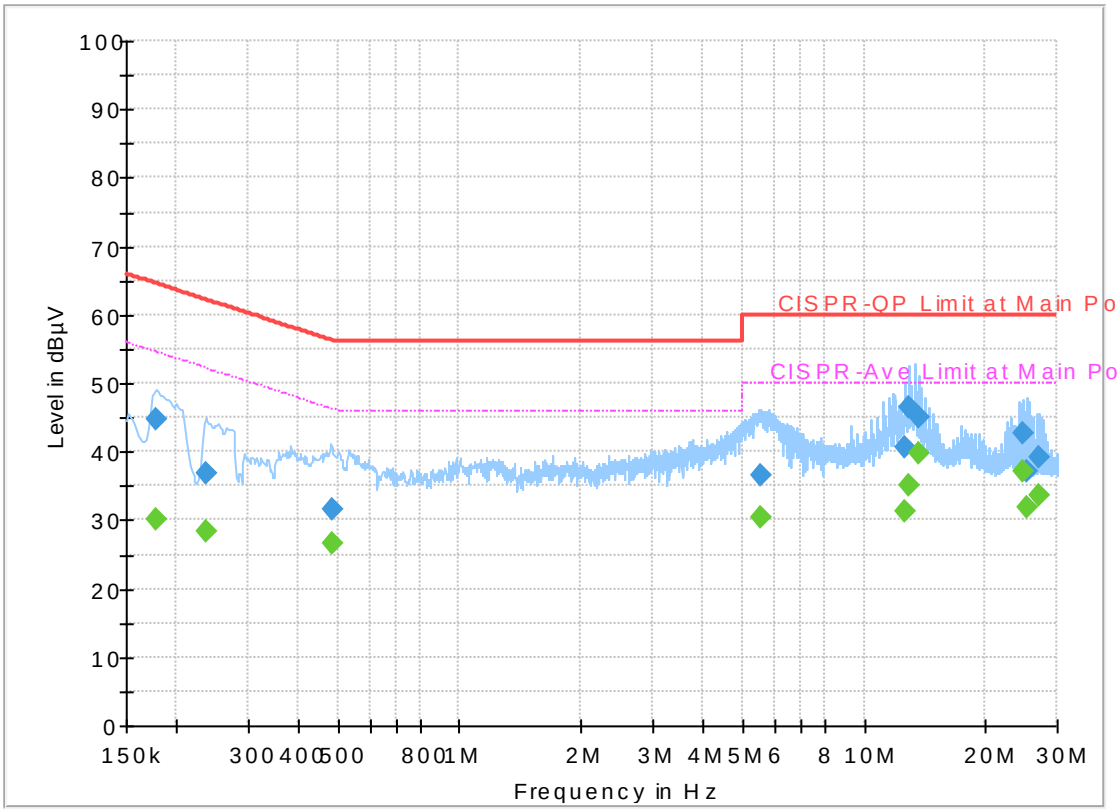
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	28.56	54.84	26.28	L1	OFF	19.5
0.172500	44.14	---	64.84	20.70	L1	OFF	19.5
0.231000	---	26.60	52.41	25.81	L1	OFF	19.5
0.231000	34.76	---	62.41	27.65	L1	OFF	19.5
5.574750	---	27.83	50.00	22.17	L1	OFF	19.7
5.574750	32.86	---	60.00	27.14	L1	OFF	19.7
11.726250	---	35.24	50.00	14.76	L1	OFF	20.0
11.726250	48.92	---	60.00	11.08	L1	OFF	20.0
12.815250	---	35.72	50.00	14.28	L1	OFF	20.0
12.815250	47.19	---	60.00	12.81	L1	OFF	20.0
12.970500	---	39.62	50.00	10.38	L1	OFF	20.0
12.970500	47.68	---	60.00	12.32	L1	OFF	20.0
13.335000	---	34.24	50.00	15.76	L1	OFF	20.0
13.335000	39.94	---	60.00	20.06	L1	OFF	20.0
13.497000	---	38.91	50.00	11.09	L1	OFF	20.0
13.497000	50.62	---	60.00	9.38	L1	OFF	20.0
13.643250	---	40.78	50.00	9.22	L1	OFF	20.0
13.643250	51.76	---	60.00	8.24	L1	OFF	20.0
13.791750	---	40.06	50.00	9.94	L1	OFF	20.0
13.791750	52.58	---	60.00	7.42	L1	OFF	20.0
14.246250	---	35.29	50.00	14.71	L1	OFF	20.1

14.246250	43.75	---	60.00	16.25	L1	OFF	20.1
15.009000	---	34.96	50.00	15.04	L1	OFF	20.1
15.009000	43.89	---	60.00	16.11	L1	OFF	20.1
23.448750	---	39.04	50.00	10.96	L1	OFF	20.3
23.448750	52.08	---	60.00	7.92	L1	OFF	20.3
24.137250	---	38.53	50.00	11.47	L1	OFF	20.3
24.137250	51.43	---	60.00	8.57	L1	OFF	20.3
26.207250	---	37.81	50.00	12.19	L1	OFF	20.4
26.207250	52.41	---	60.00	7.59	L1	OFF	20.4

EUT Information

Report NO :	870417
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	29.97	54.63	24.66	N	OFF	19.5
0.177000	44.73	---	64.63	19.90	N	OFF	19.5
0.237750	---	28.25	52.17	23.92	N	OFF	19.5
0.237750	36.91	---	62.17	25.26	N	OFF	19.5
0.483000	---	26.75	46.29	19.54	N	OFF	19.5
0.483000	31.58	---	56.29	24.71	N	OFF	19.5
5.525250	---	30.44	50.00	19.56	N	OFF	19.7
5.525250	36.48	---	60.00	23.52	N	OFF	19.7
12.590250	---	31.28	50.00	18.72	N	OFF	20.0
12.590250	40.72	---	60.00	19.28	N	OFF	20.0
12.963750	---	35.01	50.00	14.99	N	OFF	20.0
12.963750	46.61	---	60.00	13.39	N	OFF	20.0
13.704000	---	39.79	50.00	10.21	N	OFF	20.1
13.704000	45.16	---	60.00	14.84	N	OFF	20.1
24.814500	---	37.27	50.00	12.73	N	OFF	20.5
24.814500	42.57	---	60.00	17.43	N	OFF	20.5
25.183500	---	32.01	50.00	17.99	N	OFF	20.5
25.183500	37.04	---	60.00	22.96	N	OFF	20.5
27.037500	---	33.62	50.00	16.38	N	OFF	20.6
27.037500	39.24	---	60.00	20.76	N	OFF	20.6

Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Chuan Zhu, and Ken Wu	Temperature :	21~26°C
		Relative Humidity :	52~57%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5111.54	49.51	-24.49	74	41.8	31.72	33.04	9.03	190	32	P	H
		5127.4	40.34	-13.66	54	32.61	31.73	33.03	9.03	190	32	A	H
	*	5180	99.79	-	-	91.97	31.78	33.03	9.07	190	32	P	H
	*	5180	90.98	-	-	83.16	31.78	33.03	9.07	190	32	A	H
													H
													H
		5127.66	50.96	-23.04	74	43.23	31.73	33.03	9.03	122	347	P	V
		5127.92	44.02	-9.98	54	36.29	31.73	33.03	9.03	122	347	A	V
	*	5180	105.61	-	-	97.79	31.78	33.03	9.07	122	347	P	V
	*	5180	97.12	-	-	89.3	31.78	33.03	9.07	122	347	A	V
													V
													V
802.11a CH 44 5220MHz		5018.72	48.56	-25.44	74	41.03	31.62	33.04	8.95	181	34	P	H
		5074.62	40.12	-13.88	54	32.49	31.68	33.04	8.99	181	34	A	H
	*	5220	101.69	-	-	93.79	31.82	33.03	9.11	181	34	P	H
	*	5220	92.79	-	-	84.89	31.82	33.03	9.11	181	34	A	H
		5389.27	48.04	-25.96	74	39.88	31.98	33.02	9.2	181	34	P	H
		5451.64	39.76	-14.24	54	31.44	32.05	33.02	9.29	181	34	A	H
		5107.9	49.38	-24.62	74	41.67	31.72	33.04	9.03	155	347	P	V
		5031.98	40.64	-13.36	54	33.08	31.63	33.04	8.97	155	347	A	V
	*	5220	105.93	-	-	98.03	31.82	33.03	9.11	155	347	P	V
	*	5220	97.29	-	-	89.39	31.82	33.03	9.11	155	347	A	V
		5416.81	47.83	-26.17	74	39.61	32.02	33.02	9.22	155	347	P	V
		5418.16	40.04	-13.96	54	31.82	32.02	33.02	9.22	155	347	A	V

802.11a CH 48 5240MHz		5049.92	49.61	-24.39	74	42.03	31.65	33.04	8.97	193	34	P	H
		5093.08	40.13	-13.87	54	32.46	31.7	33.04	9.01	193	34	A	H
	*	5240	102.48	-	-	94.56	31.83	33.03	9.12	193	34	P	H
	*	5240	93.74	-	-	85.82	31.83	33.03	9.12	193	34	A	H
		5435.17	48.54	-25.46	74	40.27	32.03	33.02	9.26	193	34	P	H
		5425.72	40.06	-13.94	54	31.8	32.02	33.02	9.26	193	34	A	H
		5144.56	50.16	-23.84	74	42.39	31.75	33.03	9.05	147	338	P	V
		5041.86	40.54	-13.46	54	32.96	31.65	33.04	8.97	147	338	A	V
	*	5240	106.67	-	-	98.75	31.83	33.03	9.12	147	338	P	V
	*	5240	97.73	-	-	89.81	31.83	33.03	9.12	147	338	A	V
		5437.87	49.5	-24.5	74	41.23	32.03	33.02	9.26	147	338	P	V
		5438.14	40.52	-13.48	54	32.25	32.03	33.02	9.26	147	338	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	46.06	-22.14	68.2	52.37	39.51	61.07	14.63	100	0	P	H
		15540	44.12	-29.88	74	48.35	38	60.96	17.95	100	0	P	H
													H
													H
		10360	46.21	-21.99	68.2	52.52	39.51	61.07	14.63	100	0	P	V
		15540	45.05	-28.95	74	49.28	38	60.96	17.95	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	45.95	-22.25	68.2	52.23	39.61	61.19	14.68	100	0	P	H
		15660	43.93	-30.07	74	48.33	37.67	60.83	18.06	100	0	P	H
													H
													H
		10440	45.62	-22.58	68.2	51.9	39.61	61.19	14.68	100	0	P	V
		15660	43.92	-30.08	74	48.32	37.67	60.83	18.06	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	46.15	-22.05	68.2	52.41	39.68	61.28	14.72	100	0	P	H
		15720	44.17	-29.83	74	48.69	37.47	60.75	18.1	100	0	P	H
													H
													H
		10480	46.3	-21.9	68.2	52.56	39.68	61.28	14.72	100	0	P	V
		15720	44.71	-29.29	74	49.23	37.47	60.75	18.1	100	0	P	V
													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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5102.96	49.31	-24.69	74	41.64	31.7	33.04	9.01	190	32	P	H
		5128.18	40.49	-13.51	54	32.76	31.73	33.03	9.03	190	32	A	H
	*	5180	98.94	-	-	91.12	31.78	33.03	9.07	190	32	P	H
	*	5180	90.56	-	-	82.74	31.78	33.03	9.07	190	32	A	H
													H
													H
		5128.18	52.26	-21.74	74	44.53	31.73	33.03	9.03	122	347	P	V
		5128.44	44.84	-9.16	54	37.11	31.73	33.03	9.03	122	347	A	V
	*	5180	105.79	-	-	97.97	31.78	33.03	9.07	122	347	P	V
	*	5180	96.97	-	-	89.15	31.78	33.03	9.07	122	347	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5041.08	48.94	-25.06	74	41.36	31.65	33.04	8.97	181	34	P	H
		5094.9	40.17	-13.83	54	32.5	31.7	33.04	9.01	181	34	A	H
	*	5220	100.99	-	-	93.09	31.82	33.03	9.11	181	34	P	H
	*	5220	91.98	-	-	84.08	31.82	33.03	9.11	181	34	A	H
		5403.85	49.25	-24.75	74	41.05	32	33.02	9.22	181	34	P	H
		5420.05	39.9	-14.1	54	31.64	32.02	33.02	9.26	181	34	A	H
		5099.58	49.8	-24.2	74	42.13	31.7	33.04	9.01	155	347	P	V
		5024.18	40.72	-13.28	54	33.18	31.63	33.04	8.95	155	347	A	V
	*	5220	105.32	-	-	97.42	31.82	33.03	9.11	155	347	P	V
	*	5220	96.98	-	-	89.08	31.82	33.03	9.11	155	347	A	V
		5434.09	48.54	-25.46	74	40.27	32.03	33.02	9.26	155	347	P	V
		5420.59	40.01	-13.99	54	31.75	32.02	33.02	9.26	155	347	A	V

802.11n HT20 CH 48 5240MHz		5028.6	48.81	-25.19	74	41.27	31.63	33.04	8.95	192	35	P	H
		5049.4	40.18	-13.82	54	32.6	31.65	33.04	8.97	192	35	A	H
	*	5240	101.3	-	-	93.38	31.83	33.03	9.12	192	35	P	H
	*	5240	92.73	-	-	84.81	31.83	33.03	9.12	192	35	A	H
		5439.76	48.93	-25.07	74	40.66	32.03	33.02	9.26	192	35	P	H
		5424.1	40.01	-13.99	54	31.75	32.02	33.02	9.26	192	35	A	H
		5110.76	50.69	-23.31	74	42.98	31.72	33.04	9.03	147	338	P	V
		5050.96	40.69	-13.31	54	33.11	31.65	33.04	8.97	147	338	A	V
	*	5240	106.08	-	-	98.16	31.83	33.03	9.12	147	338	P	V
	*	5240	97.68	-	-	89.76	31.83	33.03	9.12	147	338	A	V
		5419.51	48.72	-25.28	74	40.46	32.02	33.02	9.26	147	338	P	V
		5432.74	40.34	-13.66	54	32.07	32.03	33.02	9.26	147	338	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	44.91	-23.29	68.2	51.22	39.51	61.07	14.63	100	0	P	H
		15540	44.32	-29.68	74	48.55	38	60.96	17.95	100	0	P	H
													H
													H
		10360	45.27	-22.93	68.2	51.58	39.51	61.07	14.63	100	0	P	V
		15540	43.92	-30.08	74	48.15	38	60.96	17.95	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	45.95	-22.25	68.2	52.23	39.61	61.19	14.68	100	0	P	H
		15660	44	-30	74	48.4	37.67	60.83	18.06	100	0	P	H
													H
													H
		10440	46.77	-21.43	68.2	53.05	39.61	61.19	14.68	100	0	P	V
		15660	43.99	-30.01	74	48.39	37.67	60.83	18.06	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	46.05	-22.15	68.2	52.31	39.68	61.28	14.72	100	0	P	H
		15720	43.28	-30.72	74	47.8	37.47	60.75	18.1	100	0	P	H
													H
													H
		10480	45.69	-22.51	68.2	51.95	39.68	61.28	14.72	100	0	P	V
		15720	44.88	-29.12	74	49.4	37.47	60.75	18.1	100	0	P	V
													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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5070.98	49.24	-24.76	74	41.62	31.67	33.04	8.99	191	33	P	H
		5148.98	40.93	-13.07	54	33.16	31.75	33.03	9.05	191	33	A	H
	*	5190	96.91	-	-	89.07	31.78	33.03	9.09	191	33	P	H
	*	5190	88.43	-	-	80.59	31.78	33.03	9.09	191	33	A	H
		5433.12	48.01	-25.99	74	39.74	32.03	33.02	9.26	191	33	P	H
		5456.64	40.63	-13.37	54	32.31	32.05	33.02	9.29	191	33	A	H
		5135.72	50.4	-23.6	74	42.65	31.73	33.03	9.05	163	342	P	V
		5147.16	44.1	-9.9	54	36.33	31.75	33.03	9.05	163	342	A	V
	*	5190	102.79	-	-	94.95	31.78	33.03	9.09	163	342	P	V
	*	5190	94.15	-	-	86.31	31.78	33.03	9.09	163	342	A	V
		5454.68	48.56	-25.44	74	40.24	32.05	33.02	9.29	163	342	P	V
		5372.08	40.63	-13.37	54	32.49	31.97	33.03	9.2	163	342	A	V
802.11n HT40 CH 46 5230MHz		5041.6	48.69	-25.31	74	41.11	31.65	33.04	8.97	200	44	P	H
		5054.34	41.18	-12.82	54	33.6	31.65	33.04	8.97	200	44	A	H
	*	5230	98.26	-	-	90.35	31.83	33.03	9.11	200	44	P	H
	*	5230	90.35	-	-	82.44	31.83	33.03	9.11	200	44	A	H
		5415.2	47.99	-26.01	74	39.77	32.02	33.02	9.22	200	44	P	H
		5408.48	40.46	-13.54	54	32.26	32	33.02	9.22	200	44	A	H
		5091.78	48.98	-25.02	74	41.31	31.7	33.04	9.01	174	341	P	V
		5126.62	41.83	-12.17	54	34.1	31.73	33.03	9.03	174	341	A	V
	*	5230	103.06	-	-	95.15	31.83	33.03	9.11	174	341	P	V
	*	5230	94.51	-	-	86.6	31.83	33.03	9.11	174	341	A	V
		5354.16	49.72	-24.28	74	41.61	31.95	33.03	9.19	174	341	P	V
		5426.4	40.61	-13.39	54	32.35	32.02	33.02	9.26	174	341	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	45.49	-22.71	68.2	51.79	39.54	60.79	14.64	100	0	P	H
		15570	43.92	-30.08	74	48.19	37.91	60.54	17.98	100	0	P	H
													H
													H
		10380	45.19	-23.01	68.2	51.49	39.54	60.79	14.64	100	0	P	V
		15570	43.77	-30.23	74	48.04	37.91	60.54	17.98	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	46.97	-21.23	68.2	53.25	39.63	61.22	14.69	100	0	P	H
		15690	44.69	-29.31	74	49.16	37.57	60.79	18.07	100	0	P	H
													H
													H
		10460	46.35	-21.85	68.2	52.63	39.63	61.22	14.69	100	0	P	V
		15690	43.52	-30.48	74	47.99	37.57	60.79	18.07	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.	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5137.7	49.23	-24.77	74	41.48	31.73	33.03	9.05	209	38	P	H
		5053.72	40.39	-13.61	54	32.81	31.65	33.04	8.97	209	38	A	H
	*	5260	106.06	-	-	98.1	31.87	33.03	9.12	209	38	P	H
	*	5260	97.26	-	-	89.3	31.87	33.03	9.12	209	38	A	H
		5427.84	50.2	-23.8	74	41.94	32.02	33.02	9.26	209	38	P	H
		5455.44	40.71	-13.29	54	32.39	32.05	33.02	9.29	209	38	A	H
		5052.02	50.69	-23.31	74	43.11	31.65	33.04	8.97	111	348	P	V
		5073.1	41.12	-12.88	54	33.49	31.68	33.04	8.99	111	348	A	V
	*	5260	108.28	-	-	100.32	31.87	33.03	9.12	111	348	P	V
	*	5260	100.26	-	-	92.3	31.87	33.03	9.12	111	348	A	V
		5448.96	48.61	-25.39	74	40.29	32.05	33.02	9.29	111	348	P	V
		5449.44	40.82	-13.18	54	32.5	32.05	33.02	9.29	111	348	A	V
802.11a CH 60 5300MHz		5015.64	49.37	-24.63	74	41.84	31.62	33.04	8.95	179	37	P	H
		5048.62	40.34	-13.66	54	32.76	31.65	33.04	8.97	179	37	A	H
	*	5300	107.26	-	-	99.23	31.9	33.03	9.16	179	37	P	H
	*	5300	98.54	-	-	90.51	31.9	33.03	9.16	179	37	A	H
		5352.48	52.07	-21.93	74	43.96	31.95	33.03	9.19	179	37	P	H
		5352.24	45.89	-8.11	54	37.78	31.95	33.03	9.19	179	37	A	H
		5107.44	49.84	-24.16	74	42.13	31.72	33.04	9.03	167	347	P	V
		5103.7	41.45	-12.55	54	33.78	31.7	33.04	9.01	167	347	P	V
	*	5300	109.33	-	-	101.3	31.9	33.03	9.16	167	347	P	V
	*	5300	101.05	-	-	93.02	31.9	33.03	9.16	167	347	A	V
		5352.48	52.86	-21.14	74	44.75	31.95	33.03	9.19	167	347	P	V
		5352.24	46.91	-7.09	54	38.8	31.95	33.03	9.19	167	347	P	V

802.11a CH 64 5320MHz	*	5320	103.56	-	-	95.5	31.92	33.03	9.17	200	42	P	H
	*	5320	94.75	-	-	86.69	31.92	33.03	9.17	200	42	A	H
		5371.68	49.48	-24.52	74	41.34	31.97	33.03	9.2	200	42	P	H
		5372.16	43.07	-10.93	54	34.93	31.97	33.03	9.2	200	42	A	H
													H
													H
	*	5320	106.19	-	-	98.13	31.92	33.03	9.17	131	337	P	V
	*	5320	97.5	-	-	89.44	31.92	33.03	9.17	131	337	A	V
		5372.8	50.98	-23.02	74	42.84	31.97	33.03	9.2	131	337	P	V
		5372	44.47	-9.53	54	36.33	31.97	33.03	9.2	131	337	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	45.99	-28.01	74	52.24	39.71	61.32	14.74	100	0	P	H
		15780	43.38	-30.62	74	47.97	37.33	60.69	18.15	100	0	P	H
													H
													H
		10520	46.07	-27.93	74	52.32	39.71	61.32	14.74	100	0	P	V
		15780	44.28	-29.72	74	48.87	37.33	60.69	18.15	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	46.15	-27.85	74	52.34	39.78	61.39	14.8	100	0	P	H
		15900	43.13	-30.87	74	47.89	36.99	60.56	18.25	100	0	P	H
													H
													H
		10600	45.16	-28.84	74	51.35	39.78	61.39	14.8	100	0	P	V
		15900	43.05	-30.95	74	47.81	36.99	60.56	18.25	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	46.33	-27.67	74	52.51	39.81	61.41	14.82	100	0	P	H
		15960	42.68	-31.32	74	47.55	36.8	60.49	18.3	100	0	P	H
													H
													H
		10640	45.27	-28.73	74	51.45	39.81	61.41	14.82	100	0	P	V
		15960	42.64	-31.36	74	47.51	36.8	60.49	18.3	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 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5067.66	49.54	-24.46	74	41.92	31.67	33.04	8.99	209	38	P	H
		5073.78	40.37	-13.63	54	32.74	31.68	33.04	8.99	209	38	A	H
	*	5260	104.09	-	-	96.13	31.87	33.03	9.12	209	38	P	H
	*	5260	95.86	-	-	87.9	31.87	33.03	9.12	209	38	A	H
		5457.36	48.32	-25.68	74	40	32.05	33.02	9.29	209	38	P	H
		5448.24	40.47	-13.53	54	32.15	32.05	33.02	9.29	209	38	A	H
		5139.74	50.12	-23.88	74	42.35	31.75	33.03	9.05	111	348	P	V
		5062.56	40.98	-13.02	54	33.36	31.67	33.04	8.99	111	348	A	V
	*	5260	107.12	-	-	99.16	31.87	33.03	9.12	111	348	P	V
	*	5260	99.15	-	-	91.19	31.87	33.03	9.12	111	348	A	V
		5458.56	49.67	-24.33	74	41.35	32.05	33.02	9.29	111	348	P	V
		5444.16	40.45	-13.55	54	32.18	32.03	33.02	9.26	111	348	A	V
802.11n HT20 CH 60 5300MHz		5007.14	48.72	-25.28	74	41.19	31.62	33.04	8.95	180	36	P	H
		5069.36	40.44	-13.56	54	32.82	31.67	33.04	8.99	180	36	A	H
	*	5300	106.08	-	-	98.05	31.9	33.03	9.16	180	36	P	H
	*	5300	97.43	-	-	89.4	31.9	33.03	9.16	180	36	A	H
		5355.84	51.14	-22.86	74	43.03	31.95	33.03	9.19	180	36	P	H
		5351.76	45.81	-8.19	54	37.7	31.95	33.03	9.19	180	36	A	H
		5058.14	49.7	-24.3	74	42.08	31.67	33.04	8.99	167	347	P	V
		5103.7	41.28	-12.72	54	33.61	31.7	33.04	9.01	167	347	A	V
	*	5300	108.49	-	-	100.46	31.9	33.03	9.16	167	347	P	V
	*	5300	100.23	-	-	92.2	31.9	33.03	9.16	167	347	A	V
		5351.76	53.35	-20.65	74	45.24	31.95	33.03	9.19	167	347	P	V
		5351.76	47.32	-6.68	54	39.21	31.95	33.03	9.19	167	347	A	V

	*	5320	103.92	-	-	95.86	31.92	33.03	9.17	200	42	P	H
	*	5320	94.96	-	-	86.9	31.92	33.03	9.17	200	42	A	H
		5372.64	49.71	-24.29	74	41.57	31.97	33.03	9.2	200	42	P	H
		5371.68	43.62	-10.38	54	35.48	31.97	33.03	9.2	200	42	A	H
802.11n													H
HT20													H
CH 64	*	5320	105.74	-	-	97.68	31.92	33.03	9.17	131	337	P	V
5320MHz	*	5320	97.56	-	-	89.5	31.92	33.03	9.17	131	337	A	V
		5372.16	51.26	-22.74	74	43.12	31.97	33.03	9.2	131	337	P	V
		5371.68	45.23	-8.77	54	37.09	31.97	33.03	9.2	131	337	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	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	46.12	-27.88	74	52.37	39.71	61.32	14.74	100	0	P	H
		15780	43.67	-30.33	74	48.26	37.33	60.69	18.15	100	0	P	H
													H
													H
		10520	45.82	-28.18	74	52.07	39.71	61.32	14.74	100	0	P	V
		15780	44.82	-29.18	74	49.41	37.33	60.69	18.15	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	45	-29	74	51.19	39.78	61.39	14.8	100	0	P	H
		15900	42.39	-31.61	74	47.15	36.99	60.56	18.25	100	0	P	H
													H
													H
		10600	45.25	-28.75	74	51.44	39.78	61.39	14.8	100	0	P	V
		15900	42.89	-31.11	74	47.65	36.99	60.56	18.25	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	45.75	-28.25	74	51.93	39.81	61.41	14.82	100	0	P	H
		15960	42.79	-31.21	74	47.66	36.8	60.49	18.3	100	0	P	H
													H
													H
		10640	45.59	-28.41	74	51.77	39.81	61.41	14.82	100	0	P	V
		15960	42.27	-31.73	74	47.14	36.8	60.49	18.3	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5083.98	48.76	-25.24	74	41.11	31.68	33.04	9.01	196	39	P	H
		5113.22	41.09	-12.91	54	33.38	31.72	33.04	9.03	196	39	A	H
	*	5270	100.01	-	-	92.03	31.87	33.03	9.14	196	39	P	H
	*	5270	92.18	-	-	84.2	31.87	33.03	9.14	196	39	A	H
		5365.2	48.55	-25.45	74	40.42	31.97	33.03	9.19	196	39	P	H
		5372.88	40.99	-13.01	54	32.85	31.97	33.03	9.2	196	39	A	H
		5115.94	49.48	-24.52	74	41.77	31.72	33.04	9.03	100	348	P	V
		5139.74	41.39	-12.61	54	33.62	31.75	33.03	9.05	100	348	A	V
	*	5270	102.96	-	-	94.98	31.87	33.03	9.14	100	348	P	V
	*	5270	94.61	-	-	86.63	31.87	33.03	9.14	100	348	A	V
		5426.88	49.34	-24.66	74	41.08	32.02	33.02	9.26	100	348	P	V
		5373.12	41.36	-12.64	54	33.22	31.97	33.03	9.2	100	348	A	V
802.11n HT40 CH 62 5310MHz		5058.48	50.43	-23.57	74	42.81	31.67	33.04	8.99	178	43	P	H
		5089.42	41.17	-12.83	54	33.5	31.7	33.04	9.01	178	43	A	H
	*	5310	100.36	-	-	92.31	31.92	33.03	9.16	178	43	P	H
	*	5310	92.27	-	-	84.22	31.92	33.03	9.16	178	43	A	H
		5353.44	50.06	-23.94	74	41.95	31.95	33.03	9.19	178	43	P	H
		5351.52	42.28	-11.72	54	34.17	31.95	33.03	9.19	178	43	A	H
		5124.78	49.89	-24.11	74	42.16	31.73	33.03	9.03	100	335	P	V
		5085	41.26	-12.74	54	33.61	31.68	33.04	9.01	100	335	A	V
	*	5310	102.79	-	-	94.74	31.92	33.03	9.16	100	335	P	V
	*	5310	94.05	-	-	86	31.92	33.03	9.16	100	335	A	V
		5350.08	51.14	-22.86	74	43.03	31.95	33.03	9.19	100	335	P	V
		5350.56	43.62	-10.38	54	35.51	31.95	33.03	9.19	100	335	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	46.52	-27.48	74	52.75	39.73	61.34	14.76	100	0	P	H
		15810	42.94	-31.06	74	47.57	37.23	60.66	18.18	100	0	P	H
													H
													H
		10540	45.88	-28.12	74	52.11	39.73	61.34	14.76	100	0	P	V
		15810	43.7	-30.3	74	48.33	37.23	60.66	18.18	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	45.91	-28.09	74	52.1	39.8	61.4	14.81	100	0	P	H
		15930	41.98	-32.02	74	46.8	36.89	60.53	18.28	100	0	P	H
													H
													H
		10620	44.8	-29.2	74	50.99	39.8	61.4	14.81	100	0	P	V
		15930	42.4	-31.6	74	47.22	36.89	60.53	18.28	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5445.52	49.61	-24.39	74	41.29	32.05	9.29	33.02	201	30	P	H
		5461.52	48.31	-19.89	68.2	39.99	32.05	9.29	33.02	201	30	P	H
		5447.44	42.56	-11.44	54	34.24	32.05	9.29	33.02	201	30	A	H
	*	5500	102.64	-	-	94.19	32.1	9.37	33.02	201	30	P	H
	*	5500	93.65	-	-	85.2	32.1	9.37	33.02	201	30	A	H
													H
		5447.44	51.68	-22.32	74	43.36	32.05	9.29	33.02	187	340	P	V
		5467.44	48.67	-19.53	68.2	40.33	32.07	9.29	33.02	187	340	P	V
		5447.92	45.07	-8.93	54	36.75	32.05	9.29	33.02	187	340	A	V
	*	5500	105.9	-	-	97.45	32.1	9.37	33.02	187	340	P	V
	*	5500	96.97	-	-	88.52	32.1	9.37	33.02	187	340	A	V
													V
802.11a CH 116 5580MHz		5383.12	49.29	-24.71	74	41.13	31.98	33.02	9.2	197	37	P	H
		5462.08	48.15	-20.05	68.2	39.83	32.05	33.02	9.29	197	37	P	H
		5382.88	40.24	-13.76	54	32.08	31.98	33.02	9.2	197	37	A	H
	*	5580	105.37	-	-	96.74	32.22	33.07	9.48	197	37	P	H
	*	5580	97.04	-	-	88.41	32.22	33.07	9.48	197	37	A	H
		5752.085	50.32	-17.88	68.2	41.02	32.57	33.15	9.88	197	37	P	H
		5396.08	49.35	-24.65	74	41.15	32	33.02	9.22	100	0	P	V
		5464.96	48.57	-19.63	68.2	40.23	32.07	33.02	9.29	100	0	P	V
		5392.24	40.32	-13.68	54	32.16	31.98	33.02	9.2	100	0	A	V
	*	5580	104.13	-	-	95.5	32.22	33.07	9.48	100	0	P	V
	*	5580	96.3	-	-	87.67	32.22	33.07	9.48	100	0	A	V
		5758.07	50	-18.2	68.2	40.64	32.57	33.16	9.95	100	0	P	V

802.11a CH 140 5700MHz	*	5700	99.13	-	-	90.06	32.44	33.12	9.75	178	41	P	H
	*	5700	91.76	-	-	82.69	32.44	33.12	9.75	178	41	A	H
		5751.32	51	-17.2	68.2	41.74	32.53	33.15	9.88	178	41	P	H
													H
													H
													H
	*	5700	101.83	-	-	92.76	32.44	33.12	9.75	109	327	P	V
	*	5700	93.95	-	-	84.88	32.44	33.12	9.75	109	327	A	V
		5726.76	50.35	-17.85	68.2	41.17	32.5	33.13	9.81	109	327	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	48.17	-25.83	74	54.09	40.1	61.7	15.08	100	0	P	H
		16500	44.2	-24	68.2	46.16	38.5	59.8	18.74	100	0	P	H
													H
													H
		11000	46.7	-27.3	74	52.62	40.1	61.7	15.08	100	0	P	V
		16500	45.13	-23.07	68.2	47.09	38.5	59.8	18.74	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	47.73	-26.27	74	53.57	40.07	61.69	15.2	100	0	P	H
		16740	46.2	-22	68.2	46.79	39.08	59.24	18.93	100	0	P	H
													H
													H
		11160	48.31	-25.69	74	54.15	40.07	61.69	15.2	100	0	P	V
		16740	45.61	-22.59	68.2	46.2	39.08	59.24	18.93	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	46.61	-27.39	74	52.33	40.02	61.68	15.38	100	0	P	H
		17100	47.43	-20.77	68.2	45.8	40.06	58.31	19.18	100	0	P	H
													H
													H
		11400	46.72	-27.28	74	52.44	40.02	61.68	15.38	100	0	P	V
		17100	47.51	-20.69	68.2	45.88	40.06	58.31	19.18	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 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5448.56	51.87	-22.13	74	43.55	32.05	33.02	9.29	186	36	P	H
		5470	51.43	-16.77	68.2	43.09	32.07	33.02	9.29	186	36	P	H
		5448.24	45.3	-8.7	54	36.98	32.05	33.02	9.29	186	36	A	H
	*	5500	104.11	-	-	95.66	32.1	33.02	9.37	186	36	P	H
	*	5500	96.06	-	-	87.61	32.1	33.02	9.37	186	36	A	H
													H
		5448.72	53.23	-20.77	74	44.91	32.05	33.02	9.29	317	345	P	V
		5465.52	51	-17.2	68.2	42.66	32.07	33.02	9.29	317	345	P	V
		5448.4	45.84	-8.16	54	37.52	32.05	33.02	9.29	317	345	A	V
	*	5500	104.8	-	-	96.35	32.1	33.02	9.37	317	345	P	V
	*	5500	97.07	-	-	88.62	32.1	33.02	9.37	317	345	A	V
													V
802.11n HT20 CH 116 5580MHz		5387.92	48.22	-25.78	74	40.06	31.98	33.02	9.2	184	38	P	H
		5470	47.72	-20.48	68.2	39.38	32.07	33.02	9.29	184	38	P	H
		5380.48	40.22	-13.78	54	32.06	31.98	33.02	9.2	184	38	A	H
	*	5580	104.56	-	-	95.93	32.22	33.07	9.48	184	38	P	H
	*	5580	96.93	-	-	88.3	32.22	33.07	9.48	184	38	A	H
		5736.02	49.92	-18.28	68.2	40.66	32.53	33.15	9.88	184	38	P	H
		5427.76	50.32	-23.68	74	42.06	32.02	33.02	9.26	119	330	P	V
		5467.36	47.67	-20.53	68.2	39.33	32.07	33.02	9.29	119	330	P	V
		5392.48	40.34	-13.66	54	32.18	31.98	33.02	9.2	119	330	A	V
	*	5580	105.54	-	-	96.91	32.22	33.07	9.48	119	330	P	V
	*	5580	98.16	-	-	89.53	32.22	33.07	9.48	119	330	A	V
		5738.855	48.92	-19.28	68.2	39.66	32.53	33.15	9.88	119	330	P	V

	*	5700	99.69	-	-	90.62	32.44	33.12	9.75	183	28	P	H
	*	5700	91.07	-	-	82	32.44	33.12	9.75	183	28	A	H
		5730.76	49.77	-18.43	68.2	40.54	32.5	33.15	9.88	183	28	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	101.32	-	-	92.25	32.44	33.12	9.75	107	328	P	V
5700MHz	*	5700	93.34	-	-	84.27	32.44	33.12	9.75	107	328	A	V
		5725.64	51.69	-16.51	68.2	42.51	32.5	33.13	9.81	107	328	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	47.05	-26.95	74	52.97	40.1	61.7	15.08	100	0	P	H
		16500	45.81	-22.39	68.2	47.77	38.5	59.8	18.74	100	0	P	H
													H
													H
		11000	47.69	-26.31	74	53.61	40.1	61.7	15.08	100	0	P	V
		16500	44.6	-23.6	68.2	46.56	38.5	59.8	18.74	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	47.91	-26.09	74	53.75	40.07	61.69	15.2	100	0	P	H
		16740	47.06	-21.14	68.2	47.65	39.08	59.24	18.93	100	0	P	H
													H
													H
		11160	47.9	-26.1	74	53.74	40.07	61.69	15.2	100	0	P	V
		16740	45.09	-23.11	68.2	45.68	39.08	59.24	18.93	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	47.37	-26.63	74	53.09	40.02	61.68	15.38	100	0	P	H
		17100	47.73	-20.47	68.2	46.1	40.06	58.31	19.18	100	0	P	H
													H
													H
		11400	47.02	-26.98	74	52.74	40.02	61.68	15.38	100	0	P	V
		17100	47.65	-20.55	68.2	46.02	40.06	58.31	19.18	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5439.28	48.68	-25.32	74	40.41	32.03	33.02	9.26	197	42	P	H
		5469.28	53.44	-14.76	68.2	45.1	32.07	33.02	9.29	197	42	P	H
		5459.92	42.46	-11.54	54	34.14	32.05	33.02	9.29	197	42	A	H
	*	5510	100.88	-	-	92.44	32.1	33.03	9.37	197	42	P	H
	*	5510	92.06	-	-	83.62	32.1	33.03	9.37	197	42	A	H
		5734.445	50.02	-18.18	68.2	40.79	32.5	33.15	9.88	197	42	P	H
		5447.68	49.5	-24.5	74	41.18	32.05	33.02	9.29	139	331	P	V
		5469.52	54.05	-14.15	68.2	45.71	32.07	33.02	9.29	139	331	P	V
		5459.68	43.1	-10.9	54	34.78	32.05	33.02	9.29	139	331	A	V
	*	5510	102.4	-	-	93.96	32.1	33.03	9.37	139	331	P	V
	*	5510	93.6	-	-	85.16	32.1	33.03	9.37	139	331	A	V
		5729.405	48.43	-19.77	68.2	39.25	32.5	33.13	9.81	139	331	P	V
802.11n HT40 CH 110 5550MHz		5350	48.24	-25.76	74	40.13	31.95	33.03	9.19	180	41	P	H
		5468.32	46.82	-21.38	68.2	38.48	32.07	33.02	9.29	180	41	P	H
		5447.92	40.88	-13.12	54	32.56	32.05	33.02	9.29	180	41	A	H
	*	5550	100.39	-	-	91.81	32.19	33.05	9.44	180	41	P	H
	*	5550	91.17	-	-	82.59	32.19	33.05	9.44	180	41	A	H
		5747.045	49.08	-19.12	68.2	39.82	32.53	33.15	9.88	180	41	P	H
		5422.48	48.78	-25.22	74	40.52	32.02	33.02	9.26	127	329	P	V
		5469.28	49.7	-18.5	68.2	41.36	32.07	33.02	9.29	127	329	P	V
		5446.96	41.54	-12.46	54	33.22	32.05	33.02	9.29	127	329	A	V
	*	5550	102.58	-	-	94	32.19	33.05	9.44	127	329	P	V
	*	5550	93.83	-	-	85.25	32.19	33.05	9.44	127	329	A	V
		5749.88	49.09	-19.11	68.2	39.83	32.53	33.15	9.88	127	329	P	V

802.11n HT40 CH 134 5670MHz		5427	47.32	-26.68	74	39.06	32.02	33.02	9.26	164	31	P	H
		5466.55	49.45	-18.75	68.2	41.11	32.07	33.02	9.29	164	31	P	H
		5449.4	40.73	-13.27	54	32.41	32.05	33.02	9.29	164	31	A	H
	*	5670	97.35	-	-	88.37	32.41	33.11	9.68	164	31	P	H
	*	5670	88.28	-	-	79.3	32.41	33.11	9.68	164	31	A	H
		5753.275	50.23	-17.97	68.2	40.93	32.57	33.15	9.88	164	31	P	H
		5387.8	48.1	-25.9	74	39.94	31.98	33.02	9.2	143	327	P	V
		5468.3	48.13	-20.07	68.2	39.79	32.07	33.02	9.29	143	327	P	V
		5458.85	40.41	-13.59	54	32.09	32.05	33.02	9.29	143	327	A	V
	*	5670	99.45	-	-	90.47	32.41	33.11	9.68	143	327	P	V
	*	5670	91.08	-	-	82.1	32.41	33.11	9.68	143	327	A	V
		5735.425	48.95	-19.25	68.2	39.69	32.53	33.15	9.88	143	327	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	48.73	-25.27	74	54.63	40.1	61.69	15.11	100	0	P	H
		16530	44.67	-23.53	68.2	46.45	38.58	59.72	18.76	100	0	P	H
													H
													H
		11020	47.84	-26.16	74	53.74	40.1	61.69	15.11	100	0	P	V
		16530	45.06	-23.14	68.2	46.84	38.58	59.72	18.76	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	46.91	-27.09	74	52.78	40.08	61.69	15.16	100	0	P	H
		16650	44.62	-23.58	68.2	45.71	38.87	59.44	18.86	100	0	P	H
													H
													H
		11100	46.65	-27.35	74	52.52	40.08	61.69	15.16	100	0	P	V
		16650	44.66	-23.54	68.2	45.75	38.87	59.44	18.86	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	46.83	-27.17	74	52.58	40.03	61.69	15.33	100	0	P	H
		17010	46.67	-21.53	68.2	45.67	39.76	58.58	19.14	100	0	P	H
													H
													H
		11340	45.98	-28.02	74	51.73	40.03	61.69	15.33	100	0	P	V
		17010	46.26	-21.94	68.2	45.26	39.76	58.58	19.14	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		31.08	21.56	-18.44	40	29.51	23.7	32.51	0.82	-	-	P	H
		98.31	21.56	-21.94	43.5	37.08	15.55	32.5	1.39	-	-	P	H
		266.52	19.51	-26.49	46	30.31	19.41	32.46	2.09	-	-	P	H
		558.3	25.44	-20.56	46	28.83	25.97	32.52	2.98	-	-	P	H
		799.1	30.01	-15.99	46	30.38	28.12	32.34	3.53	-	-	P	H
		946.1	32.9	-13.1	46	29.79	30.36	31.41	3.82	100	0	P	H
													H
													H
													H
													H
													H
													H
		47.55	30.74	-9.26	40	46.9	15.31	32.49	1.02	100	0	P	V
		75.9	26.42	-13.58	40	45.1	12.56	32.5	1.22	-	-	P	V
		159.06	25.54	-17.96	43.5	39.94	16.32	32.53	1.61	-	-	P	V
		464.5	23.95	-22.05	46	30.28	23.22	32.4	2.77	-	-	P	V
		736.1	29.35	-16.65	46	30.63	27.56	32.5	3.4	-	-	P	V
		923	32.16	-13.84	46	30.21	29.45	31.61	3.79	-	-	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission

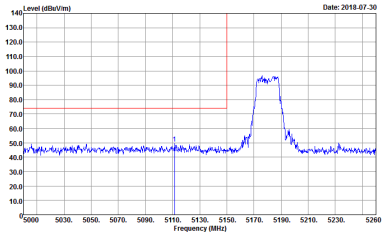
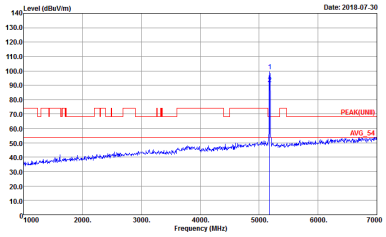
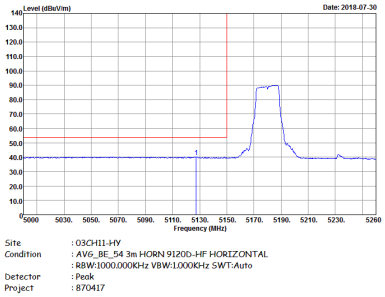
Test Engineer :	Hao Hsu, Chuan Zhu, and Ken Wu	**Temperature :**	21~26°C
		Relative Humidity :	52~57%

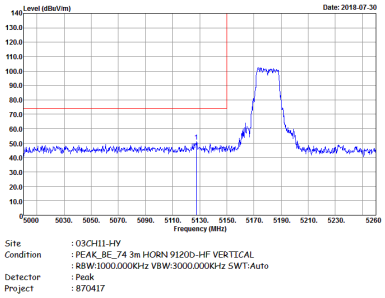
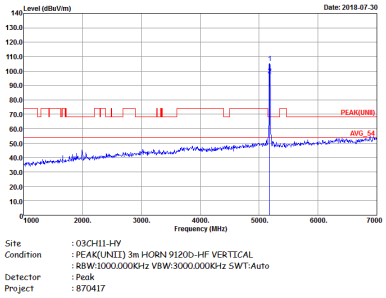
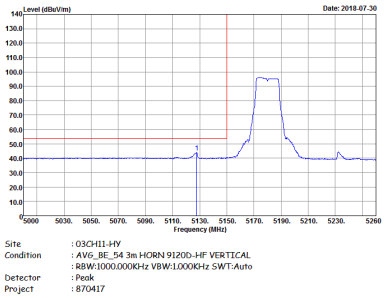
Note symbol

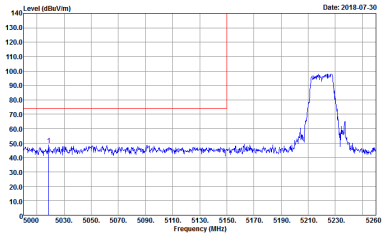
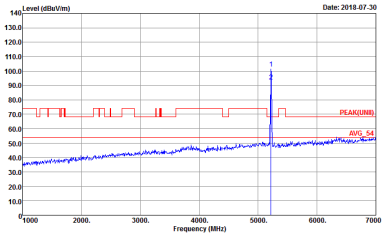
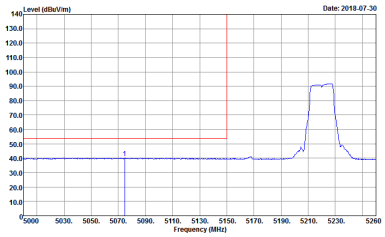
-L	**Low channel location**
-R	**High channel location**

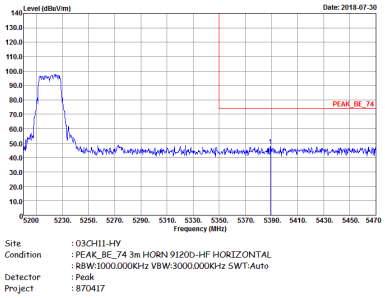
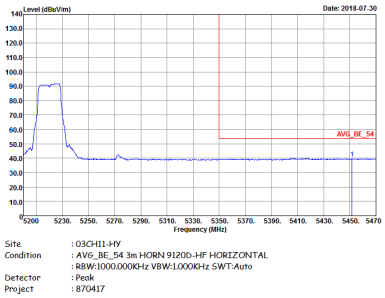
Band 1 - 5150~5250MHz

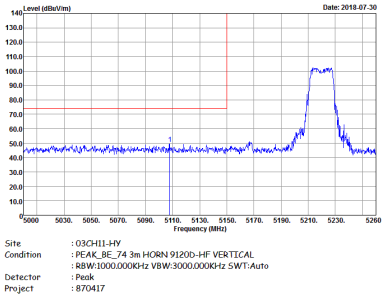
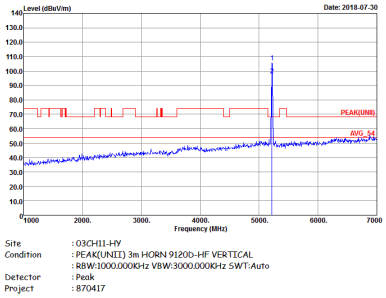
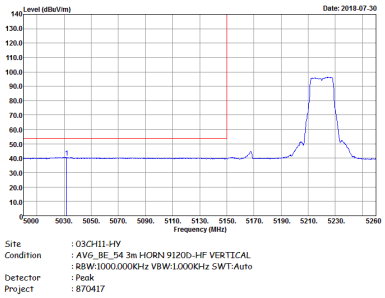
WIFI 802.11a (Band Edge @ 3m)

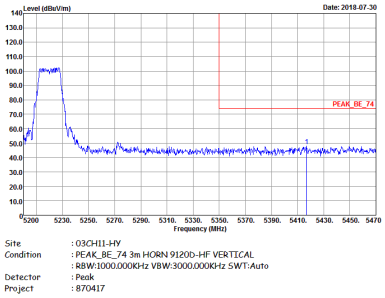
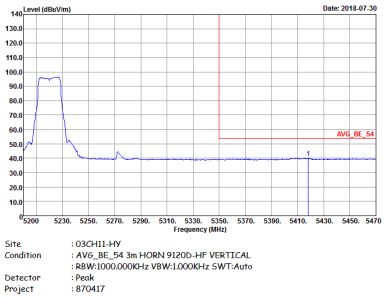
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

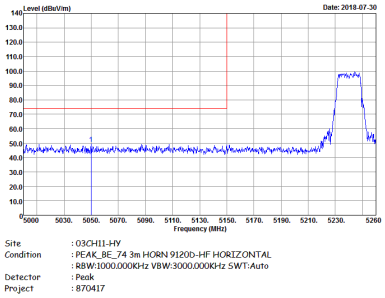
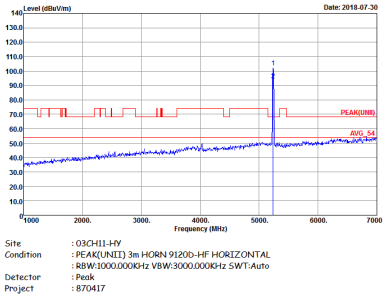
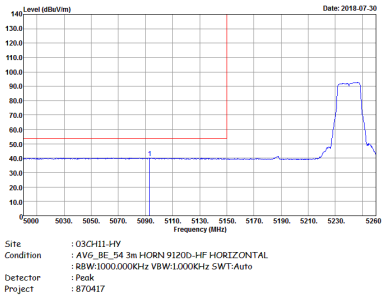
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

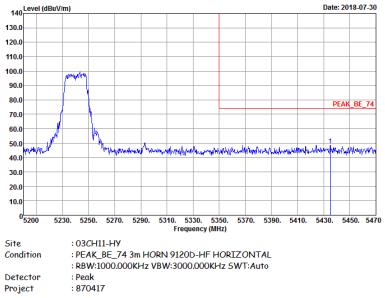
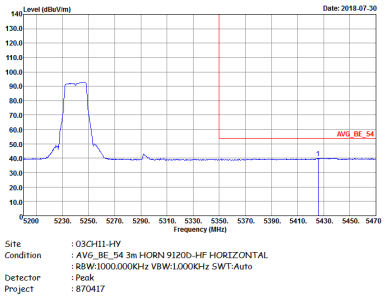
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 870417	Left blank

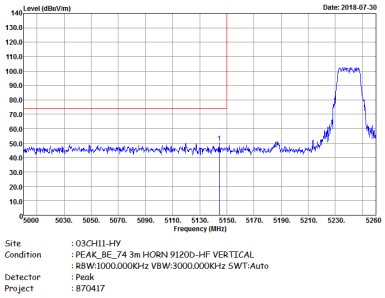
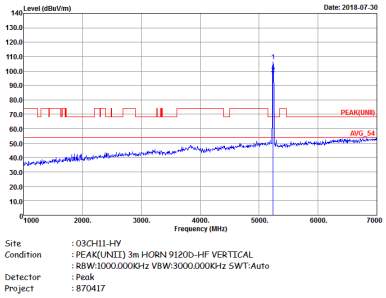
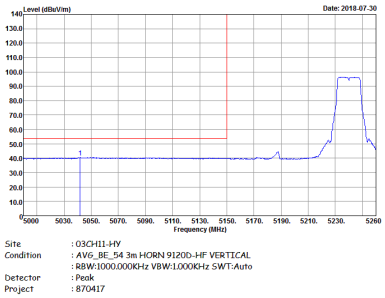
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

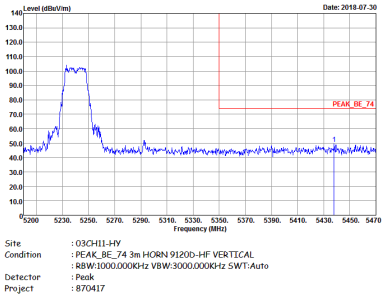
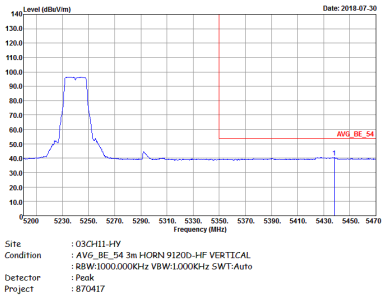
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

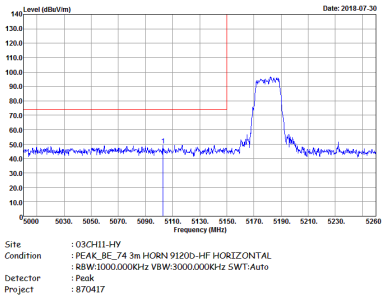
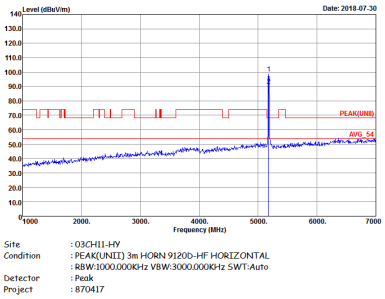
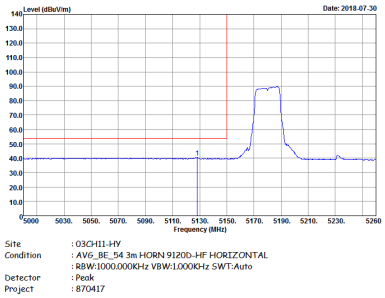
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

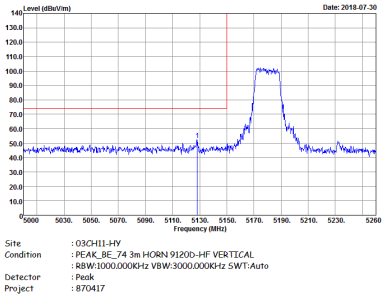
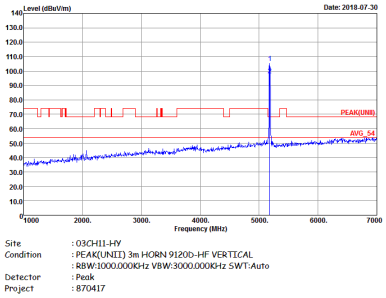
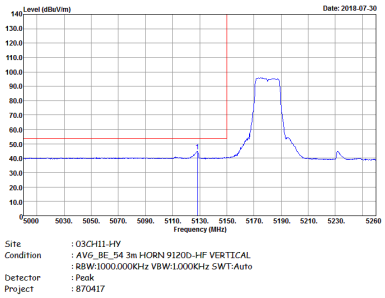
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

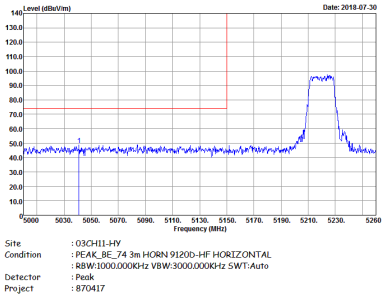
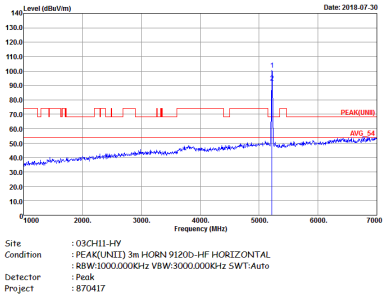
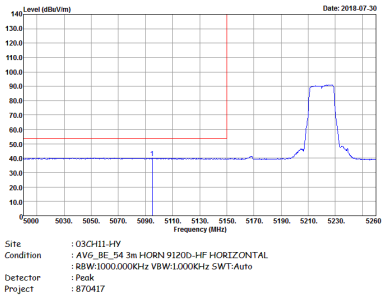
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

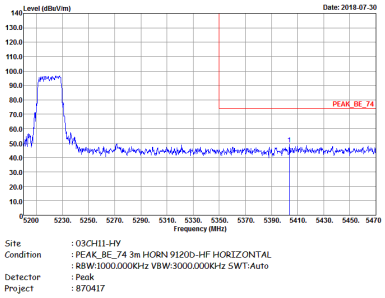
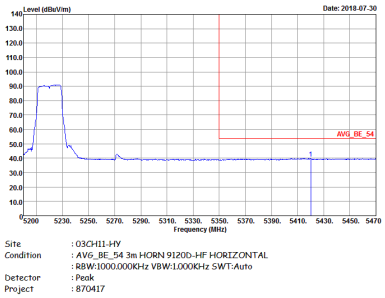
Band 1 5150~5250MHz

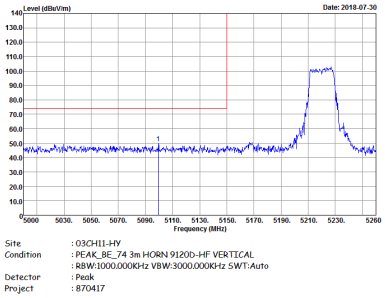
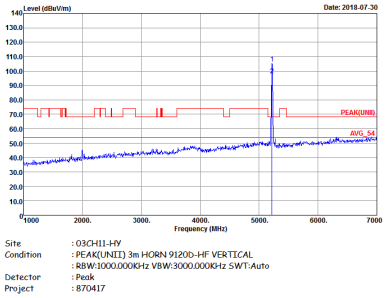
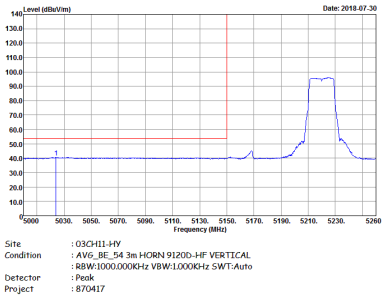
WIFI 802.11n HT20 (Band Edge @ 3m)

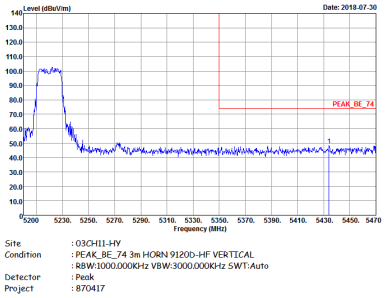
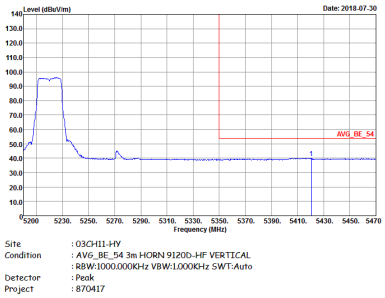
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

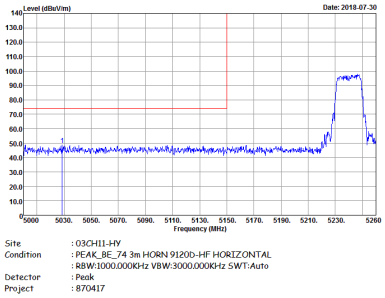
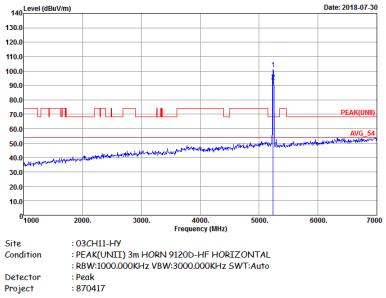
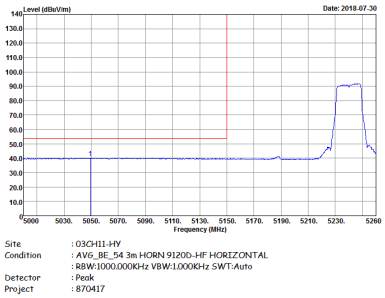
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

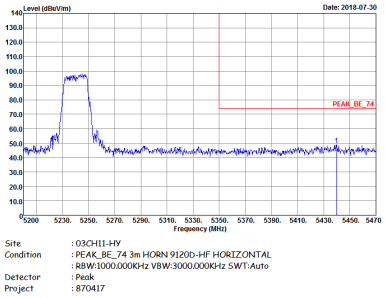
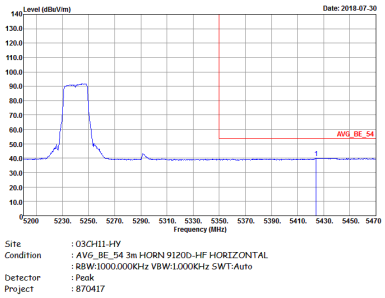
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

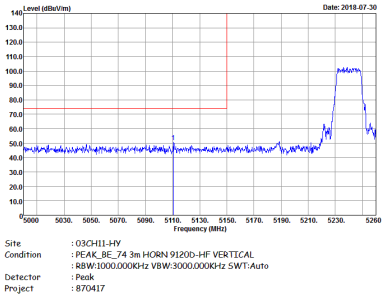
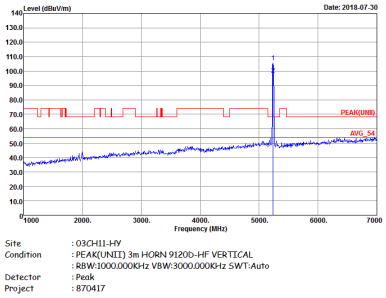
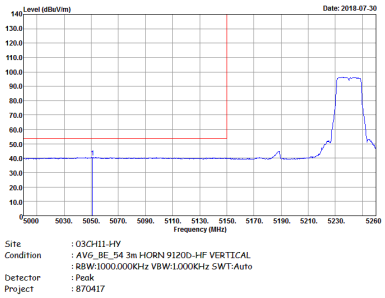
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

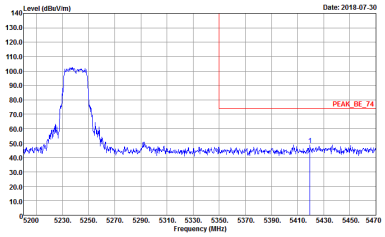
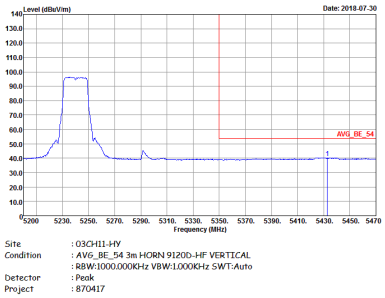
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

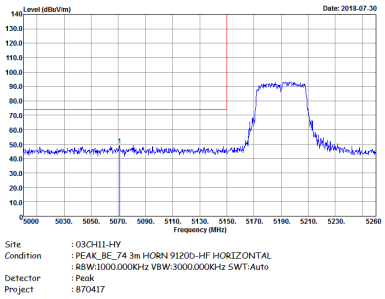
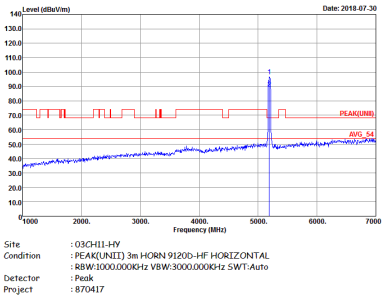
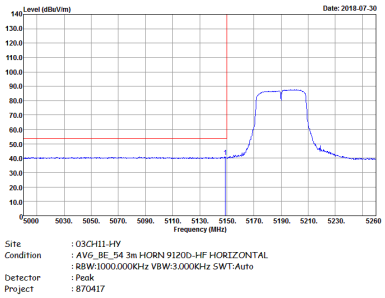
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

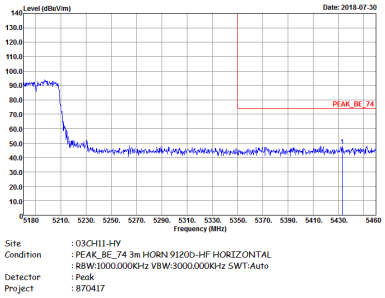
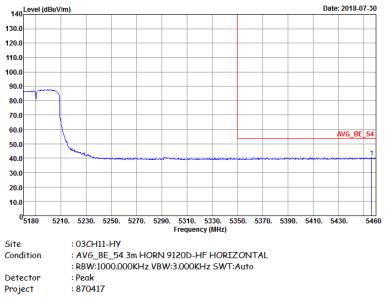
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

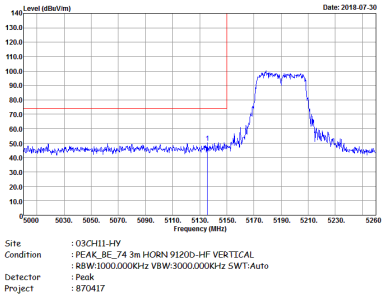
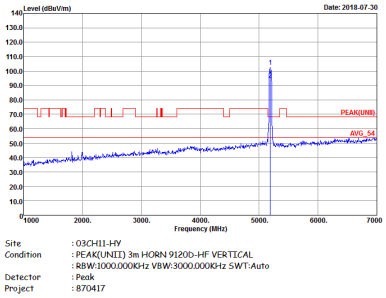
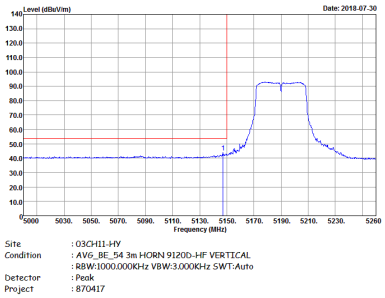
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

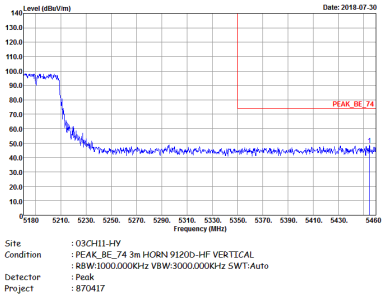
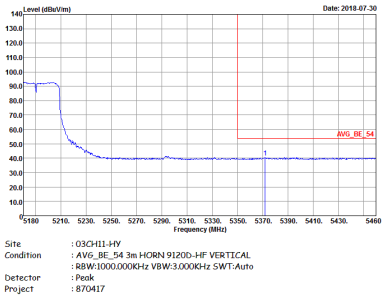
Band 1 5150~5250MHz

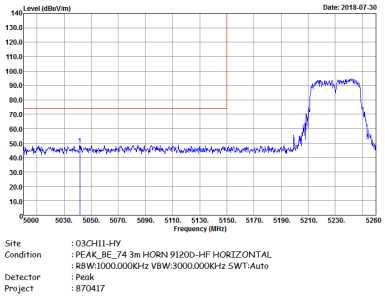
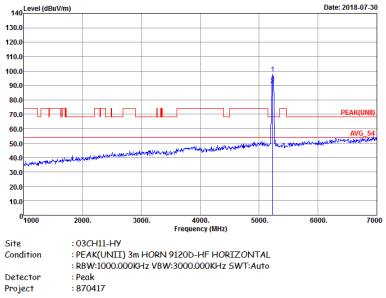
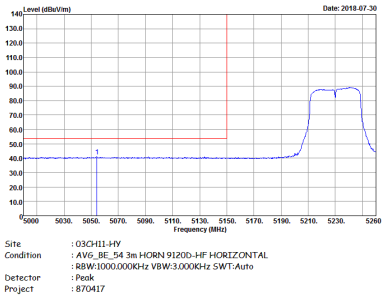
WIFI 802.11n HT40 (Band Edge @ 3m)

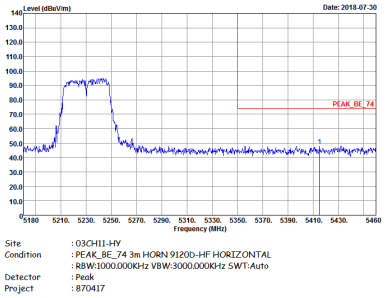
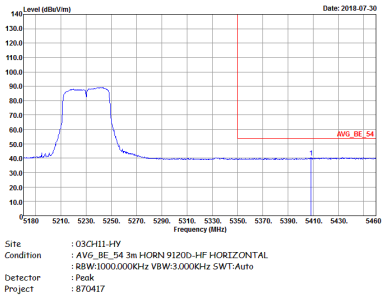
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

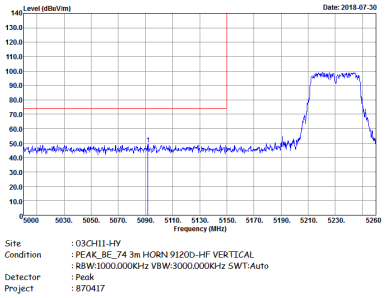
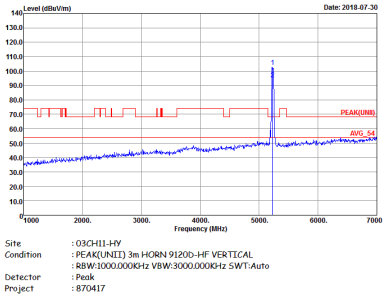
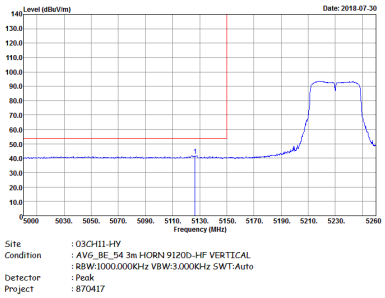
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

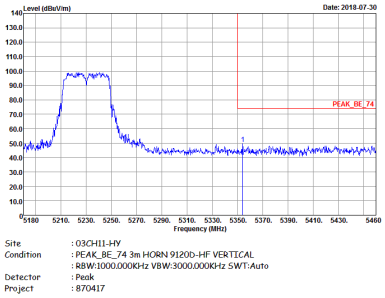
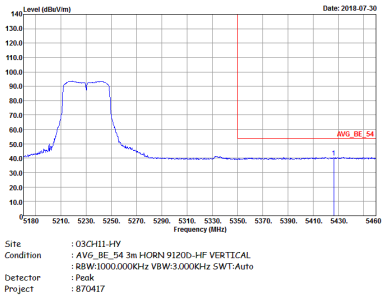
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

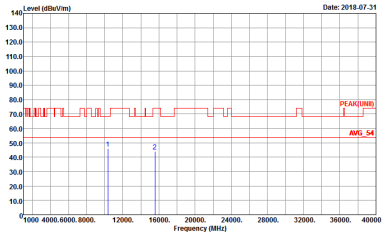
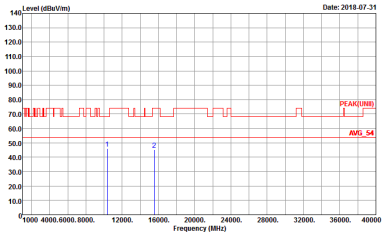
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

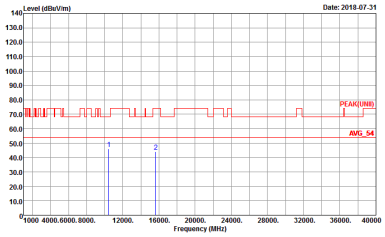
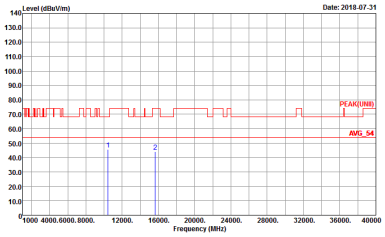
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

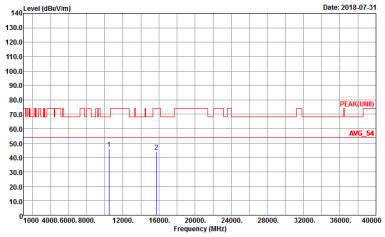
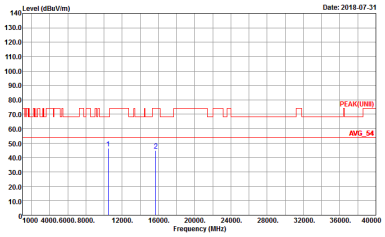
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

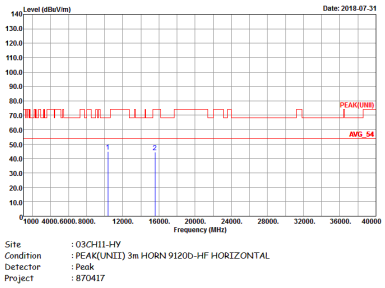
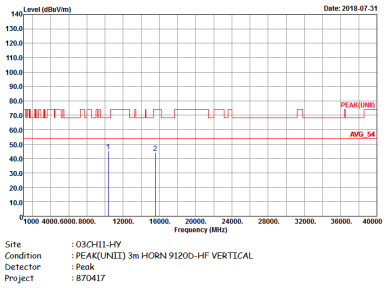
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

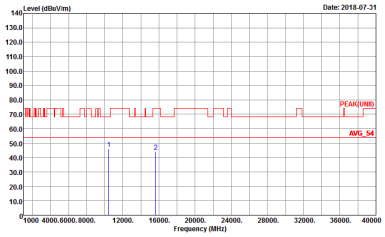
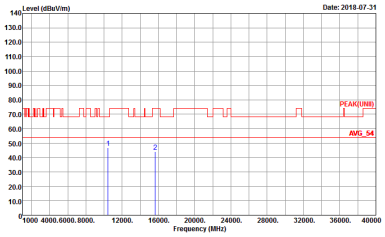
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

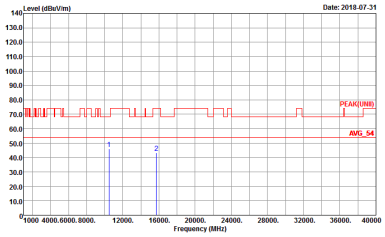
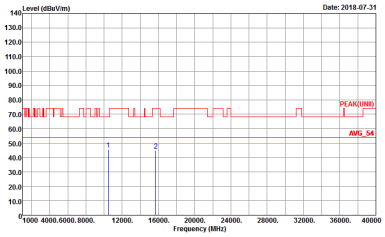
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

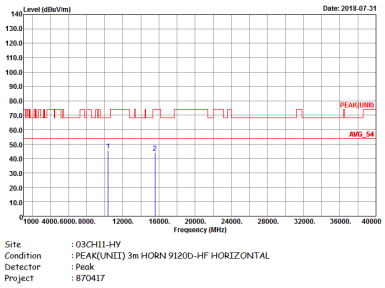
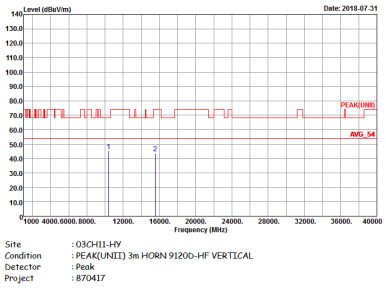
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

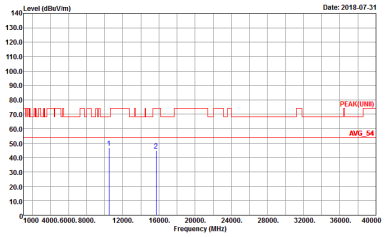
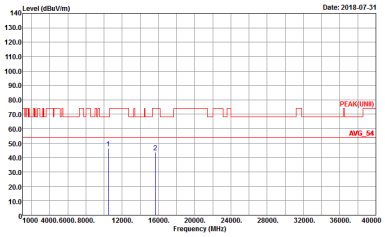
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 1 5150~5250MHz

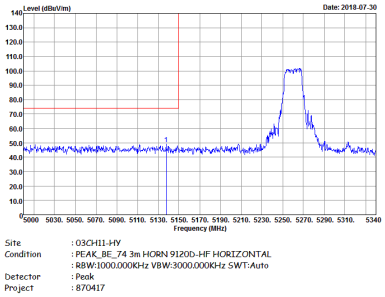
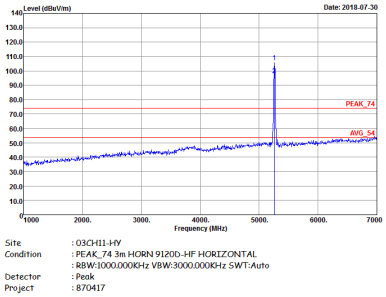
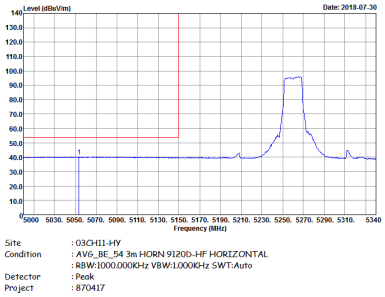
WIFI 802.11n HT40 (Harmonic @ 3m)

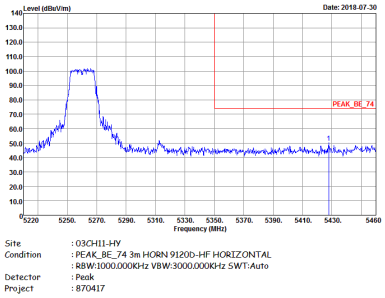
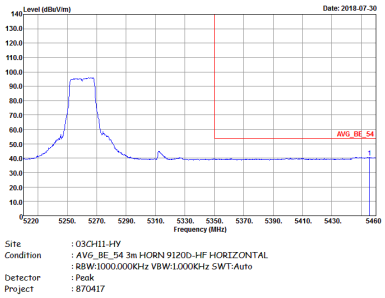
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

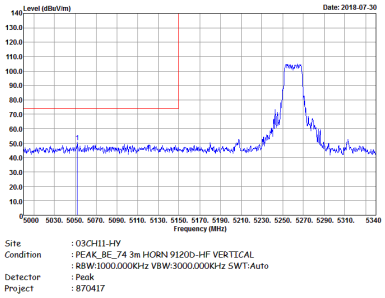
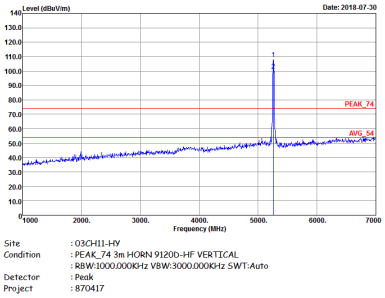
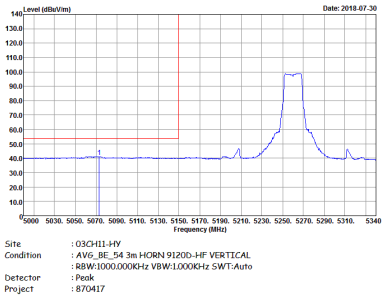
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

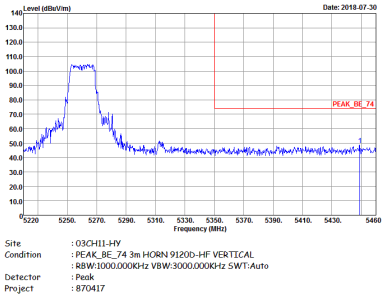
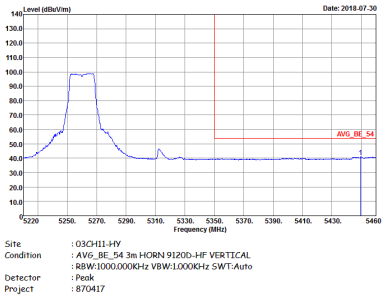
Band 2 - 5250~5350MHz

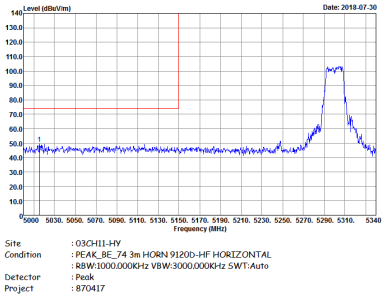
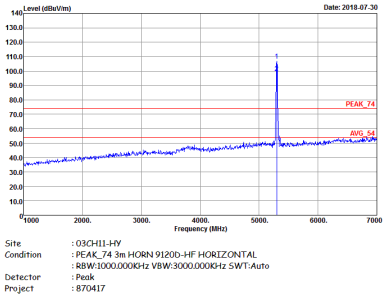
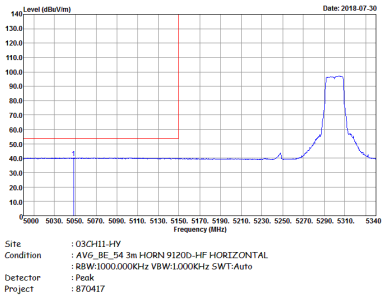
WIFI 802.11a (Band Edge @ 3m)

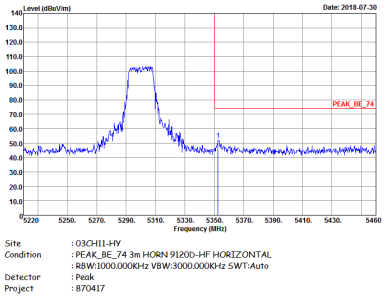
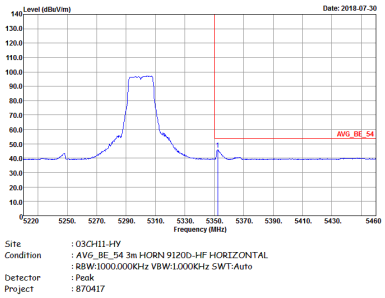
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

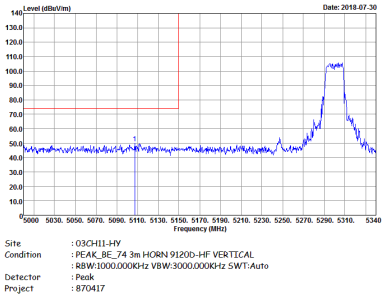
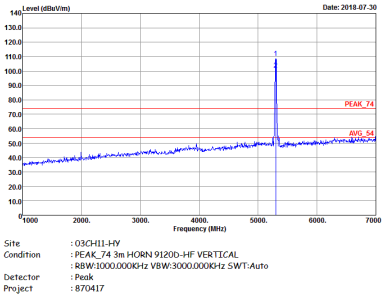
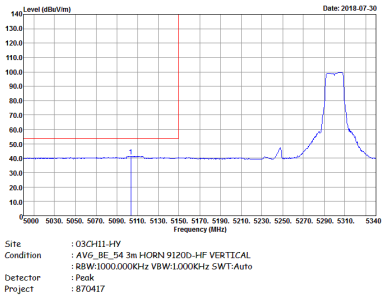
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

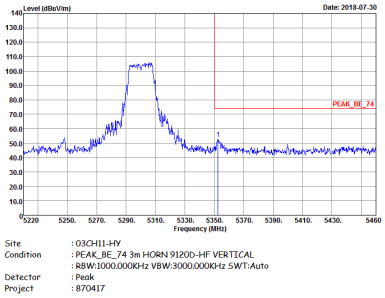
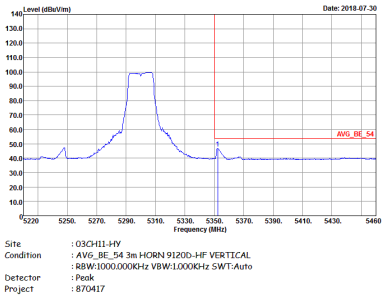
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

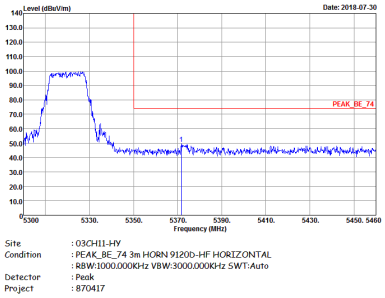
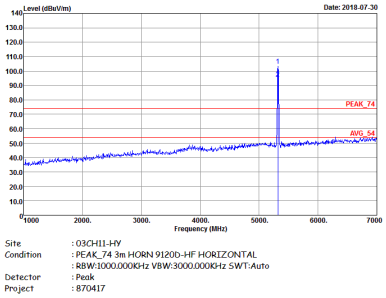
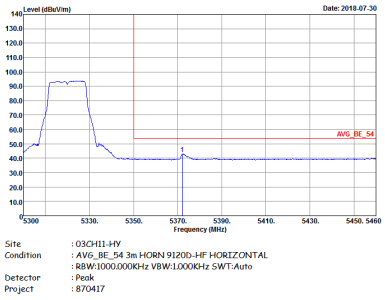
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

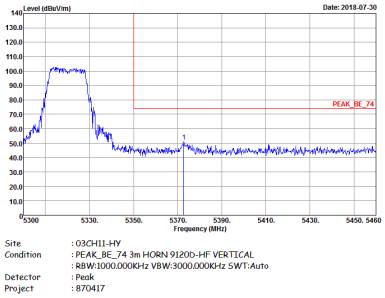
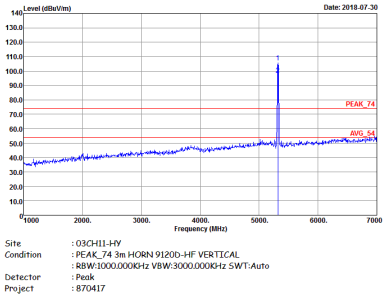
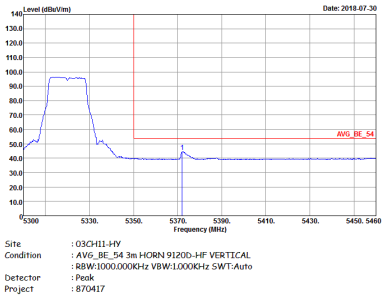
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

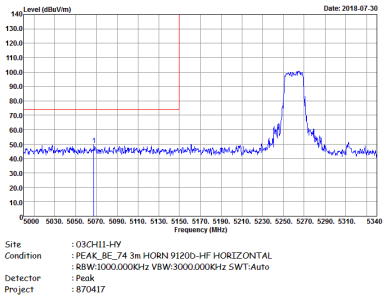
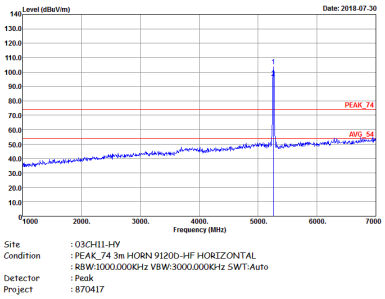
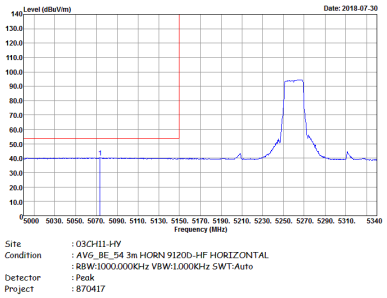
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

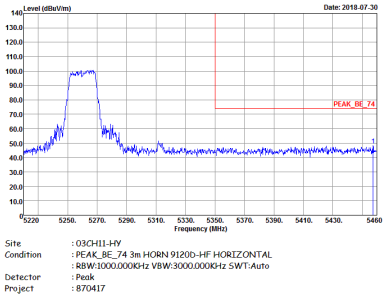
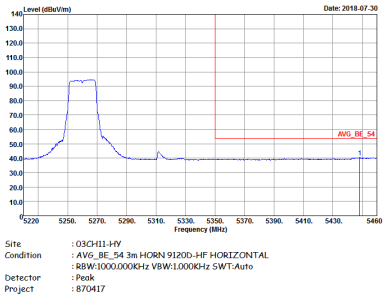
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

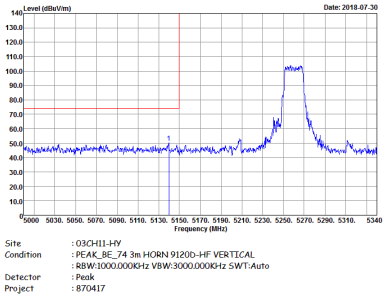
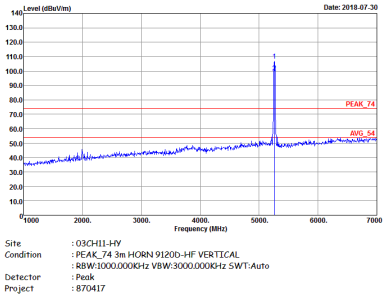
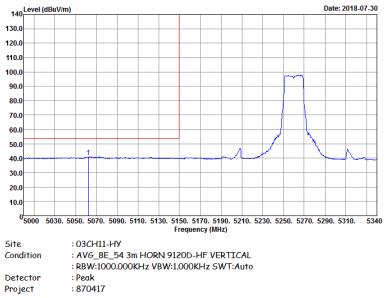
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

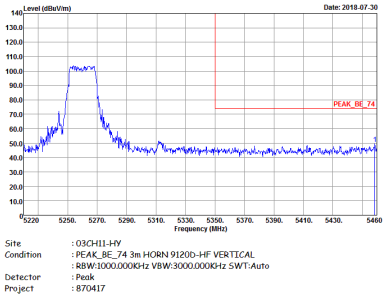
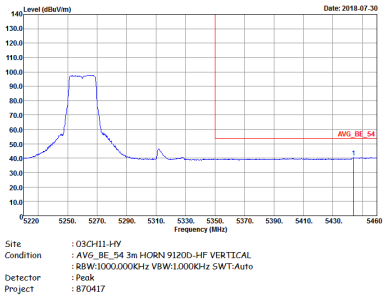
Band 2 5250~5350MHz

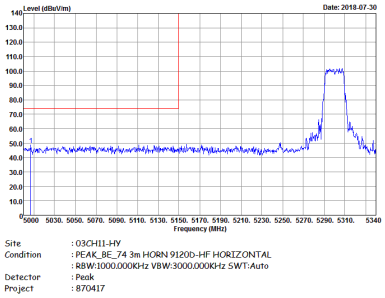
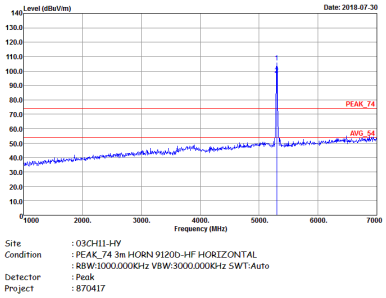
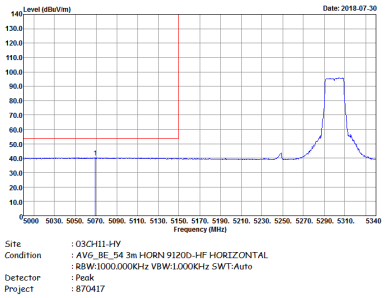
WIFI 802.11n HT20 (Band Edge @ 3m)

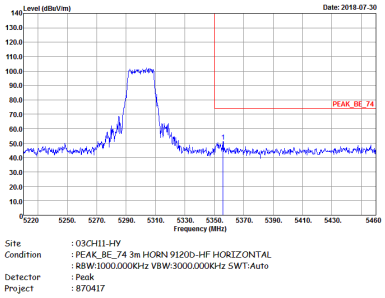
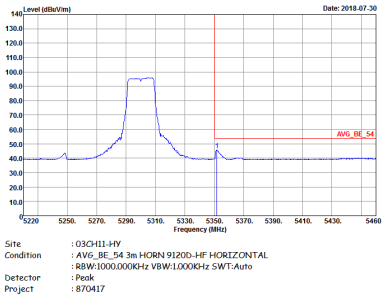
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

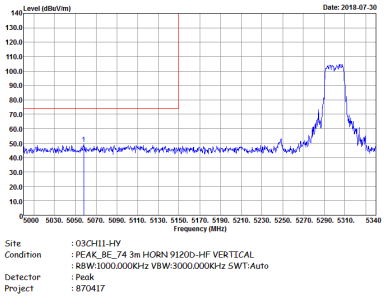
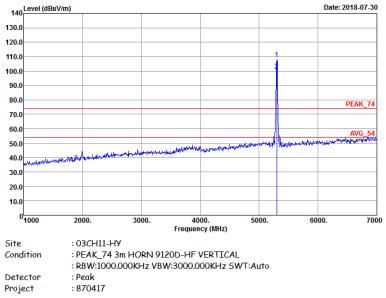
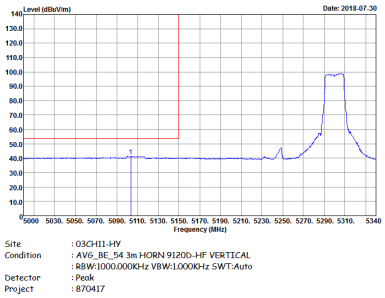
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

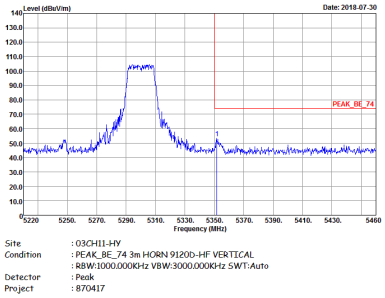
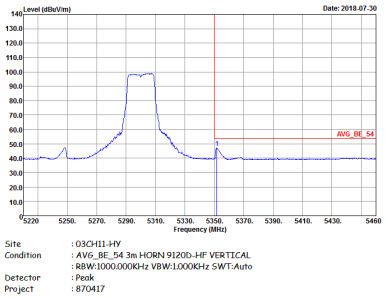
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

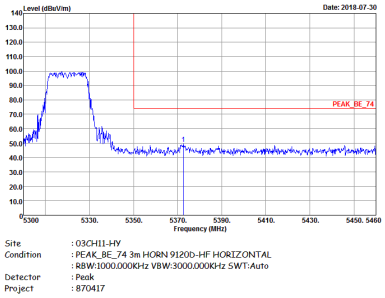
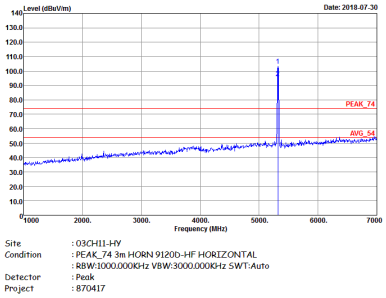
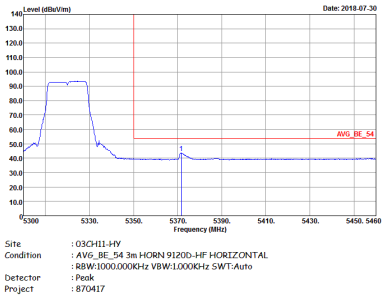
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

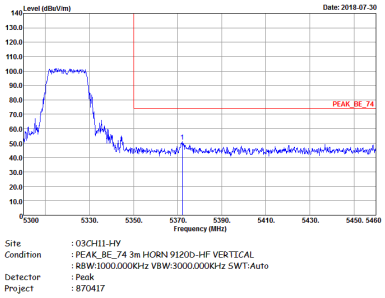
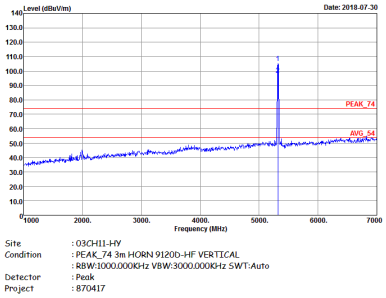
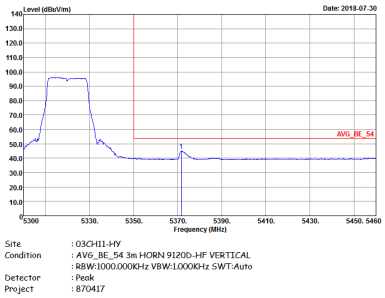
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

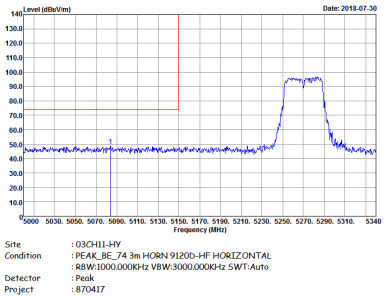
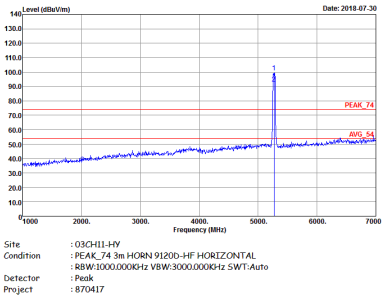
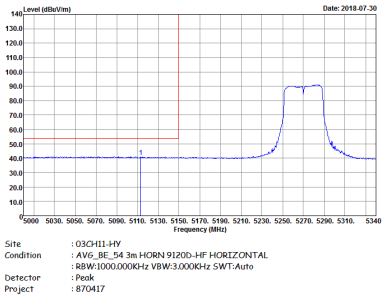
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

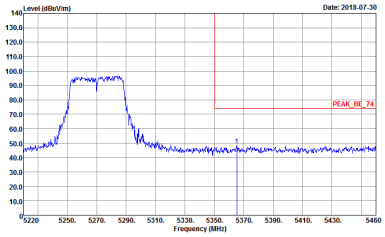
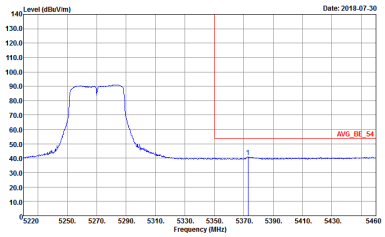
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

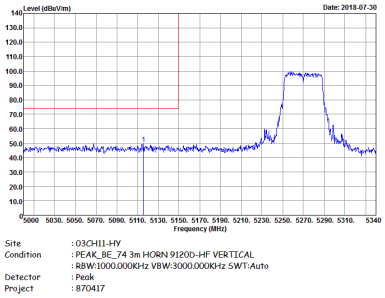
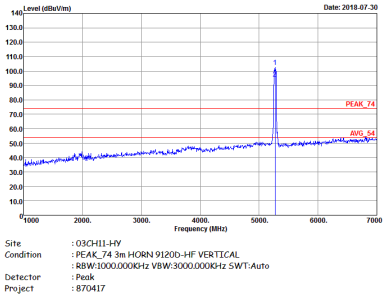
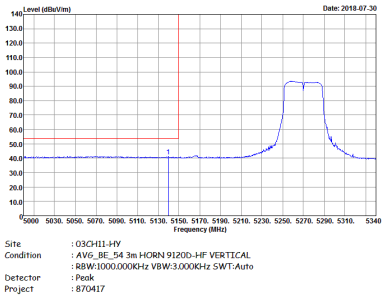
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

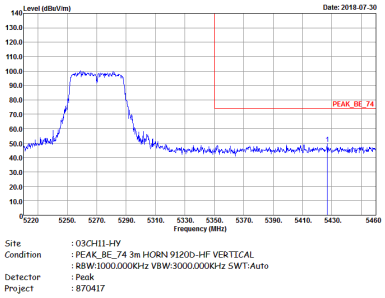
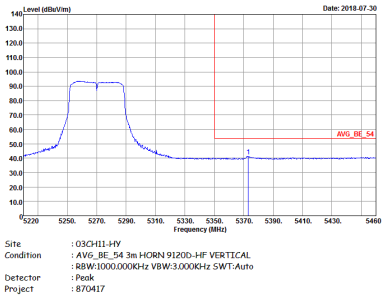
Band 2 5250~5350MHz

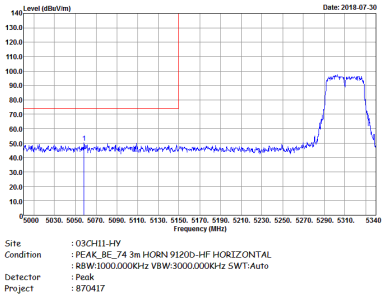
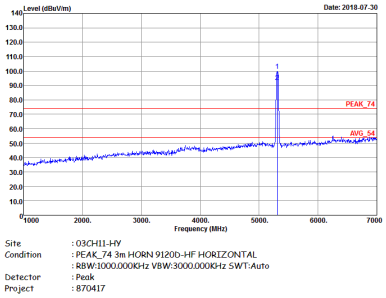
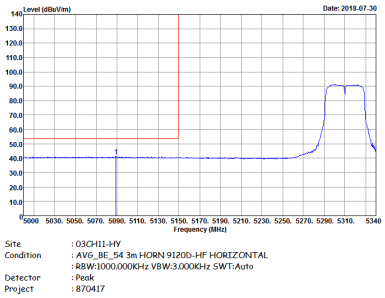
WIFI 802.11n HT40 (Band Edge @ 3m)

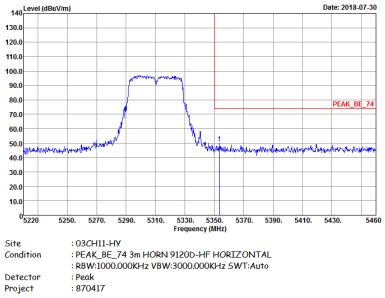
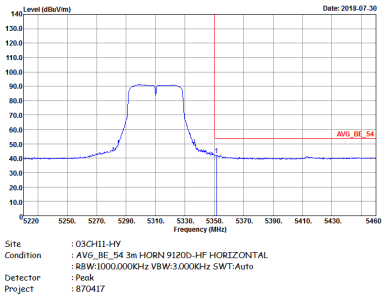
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

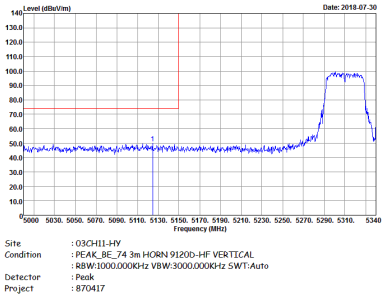
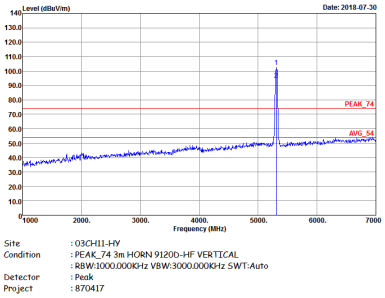
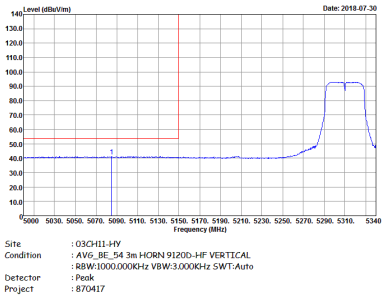
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 870417	Left blank

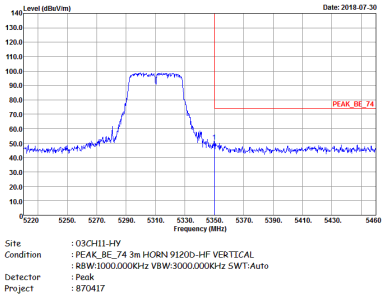
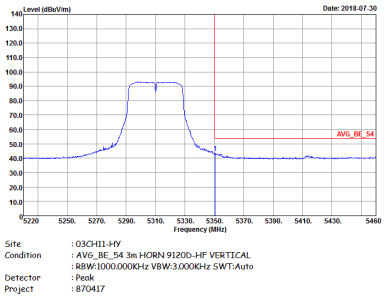
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

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

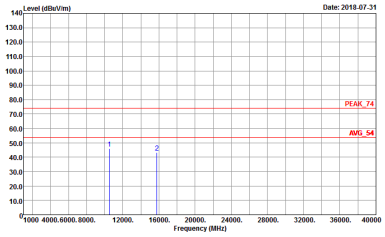
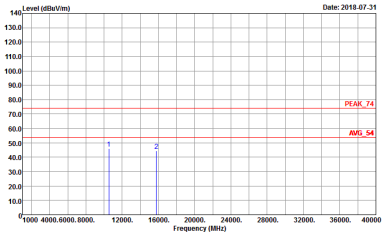
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

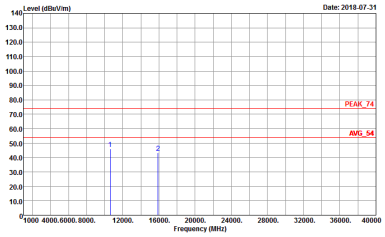
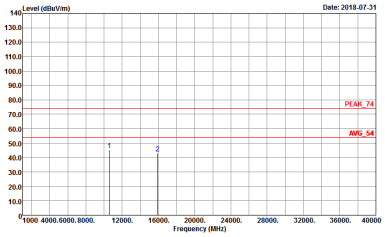
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

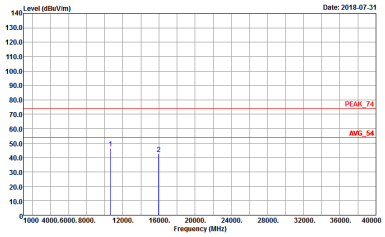
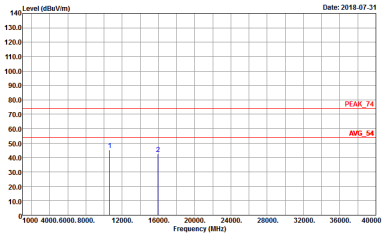
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

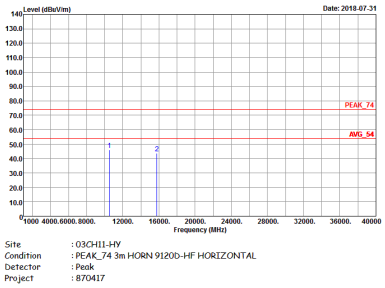
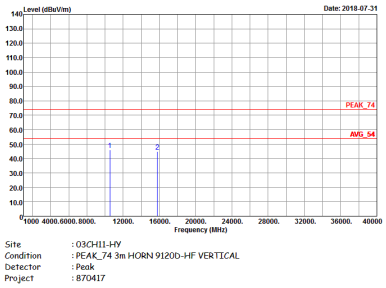
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

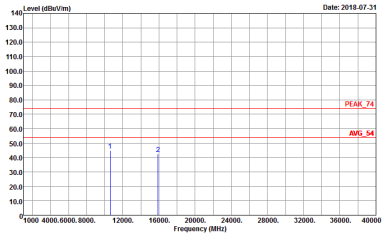
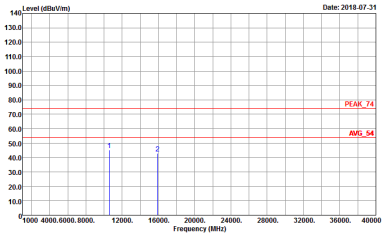
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

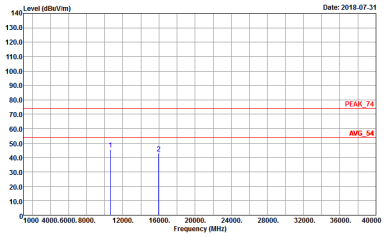
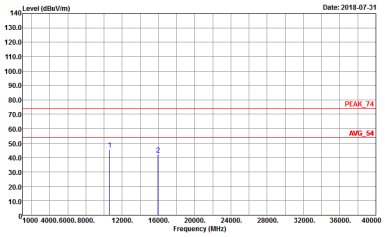
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

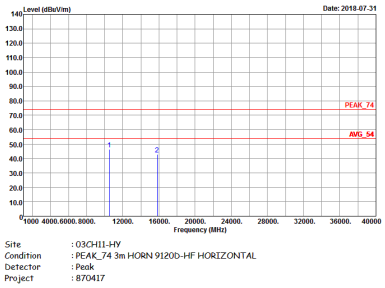
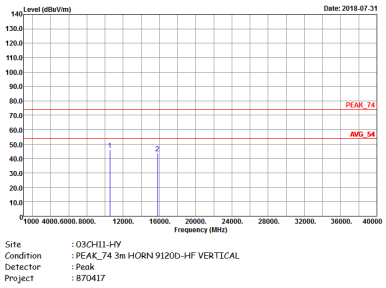
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

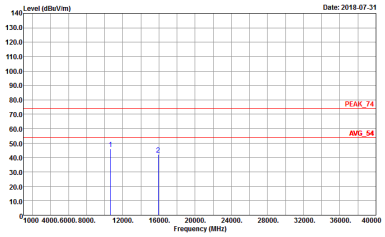
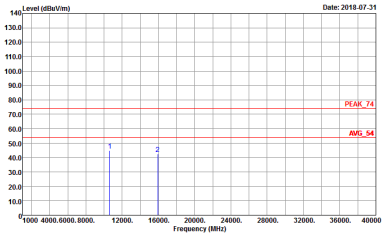
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 2 5250~5350MHz

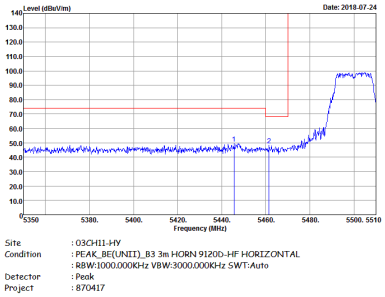
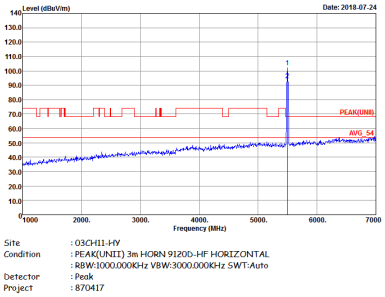
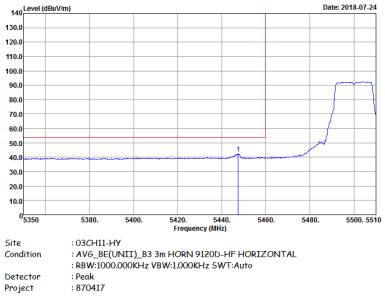
WIFI 802.11n HT40 (Harmonic @ 3m)

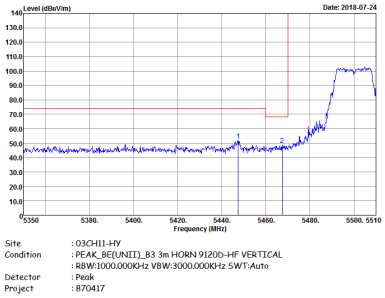
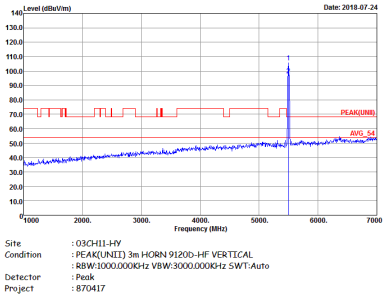
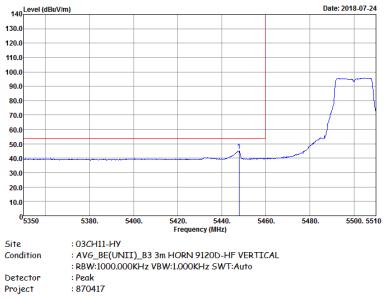
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

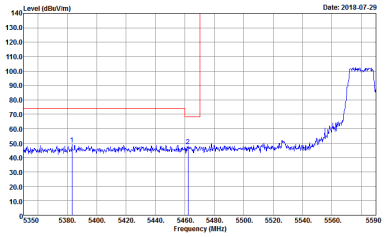
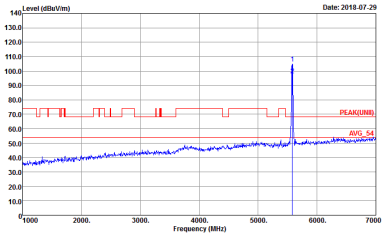
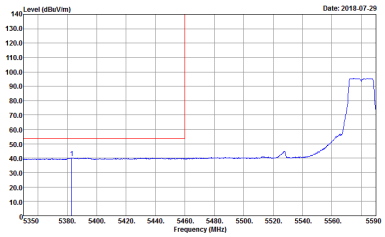
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

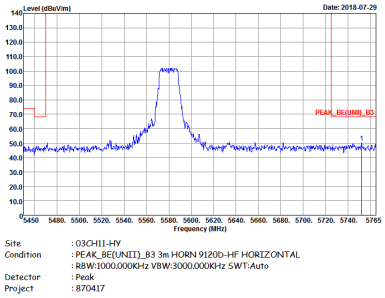
Band 3 - 5470~5725MHz

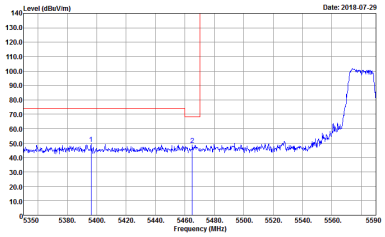
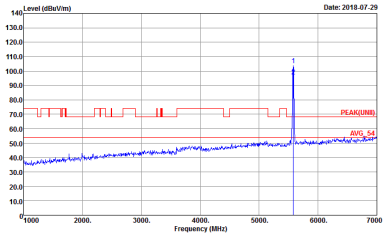
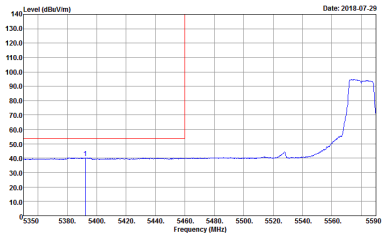
WIFI 802.11a (Band Edge @ 3m)

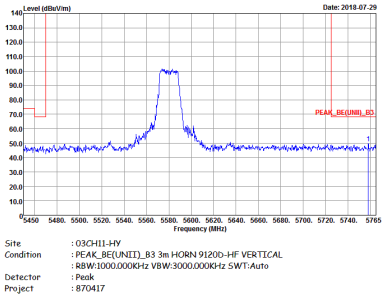
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

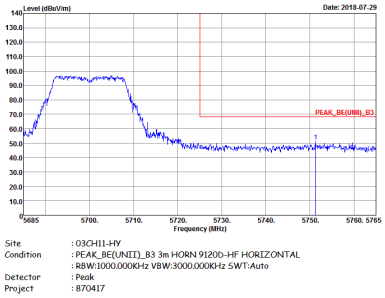
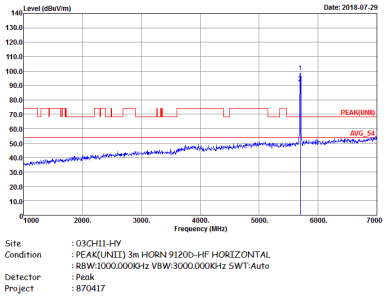
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

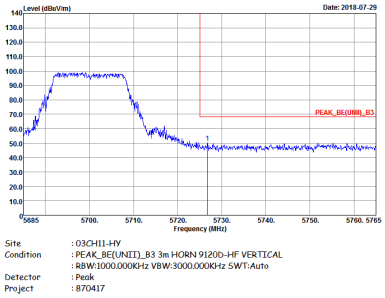
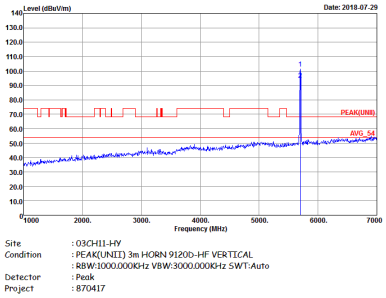
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 870417	Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	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 : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417
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 : 870417	Left blank

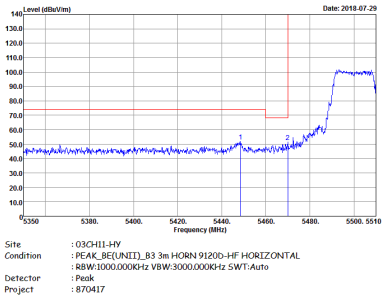
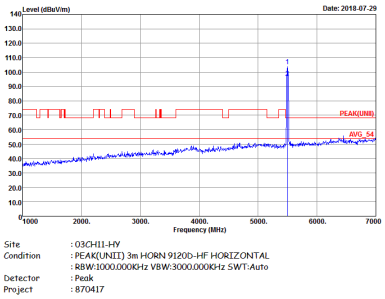
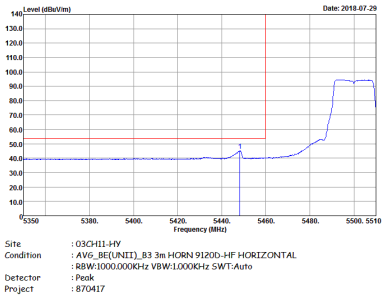
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

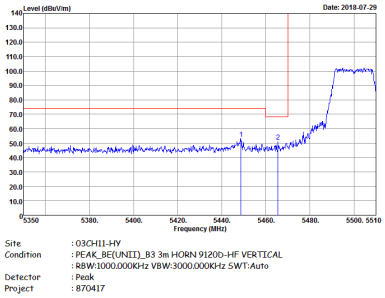
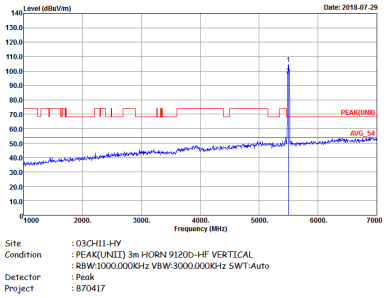
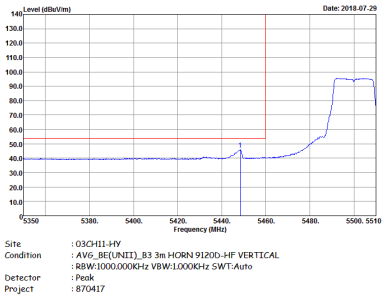
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

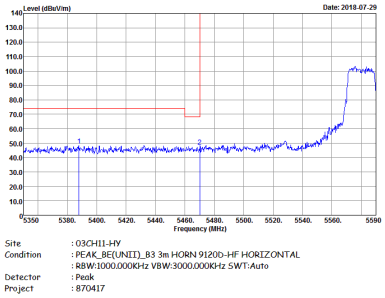
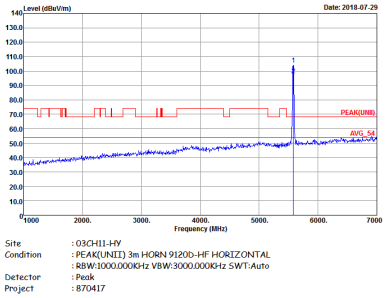
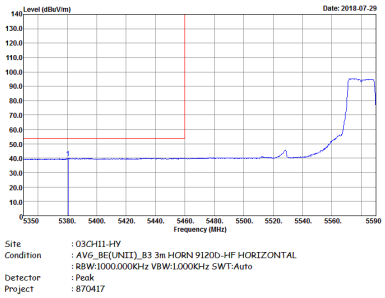
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

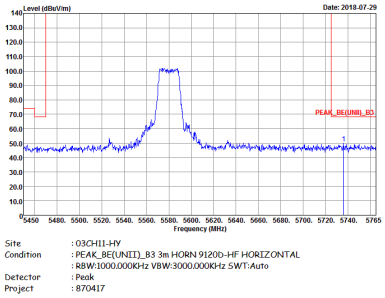
Band 3 5470~5725MHz

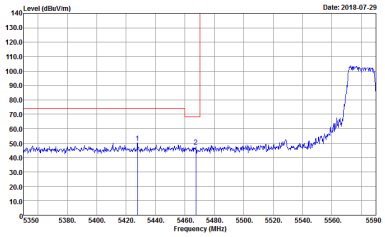
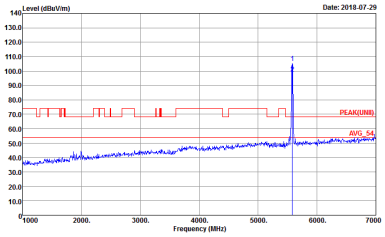
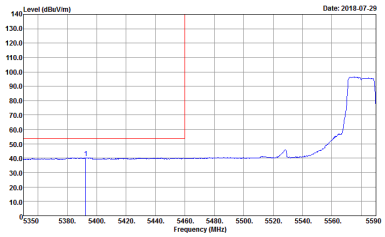
WIFI 802.11n HT20 (Band Edge @ 3m)

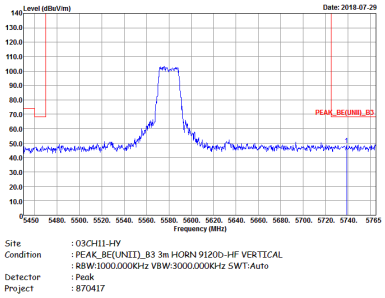
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

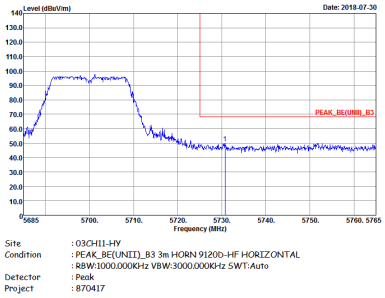
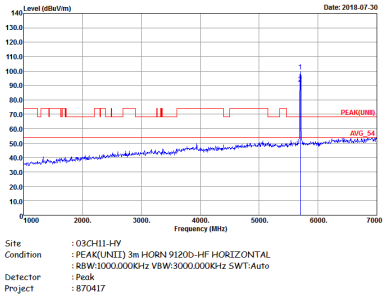
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

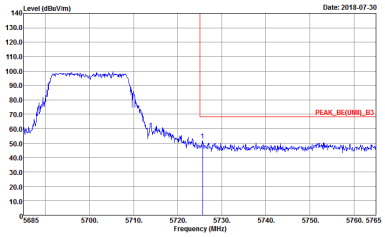
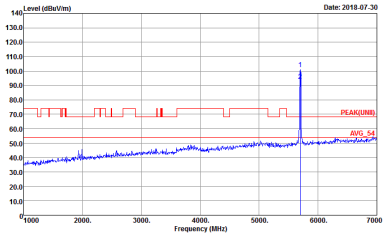
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	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 : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 870417
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 : 870417	Left blank

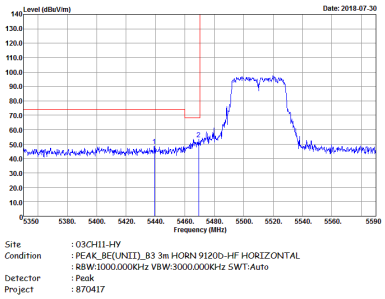
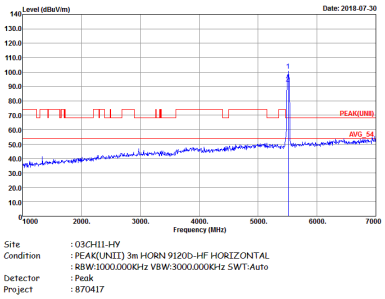
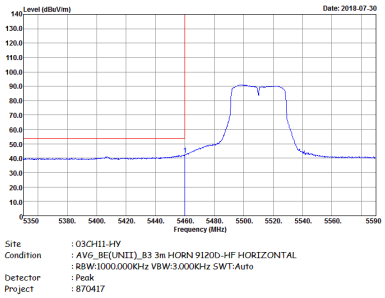
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

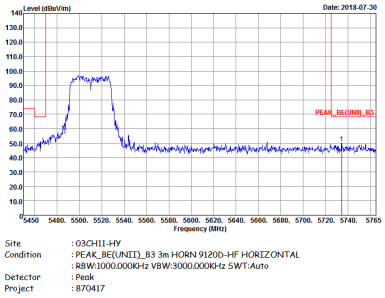
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

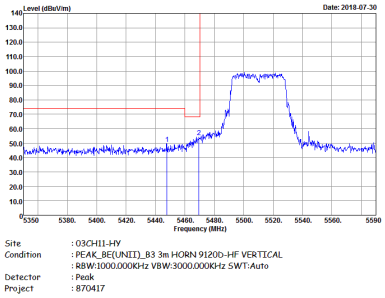
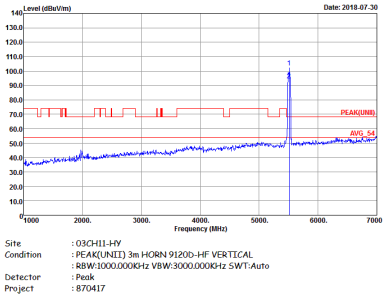
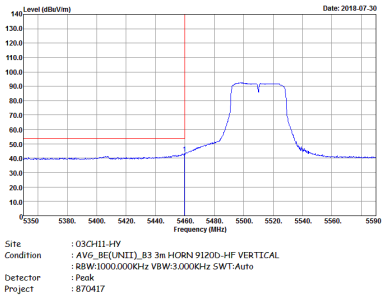
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

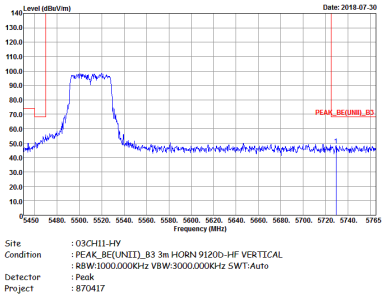
Band 3 5470~5725MHz

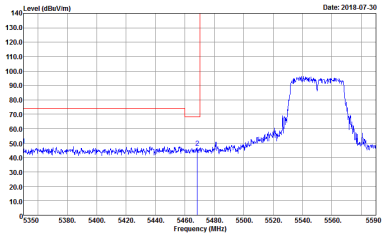
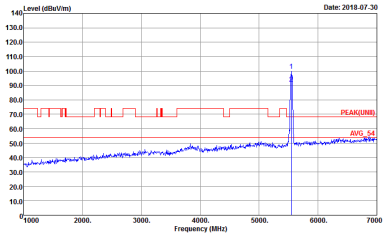
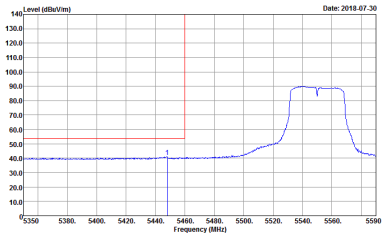
WIFI 802.11n HT40 (Band Edge @ 3m)

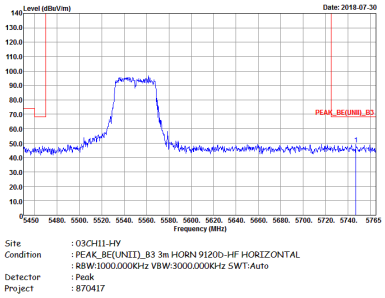
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

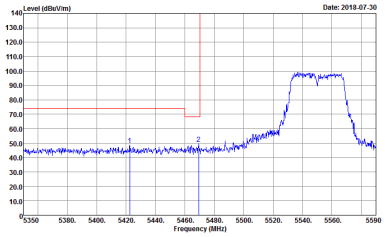
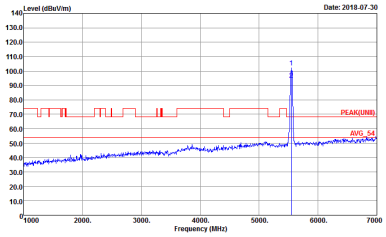
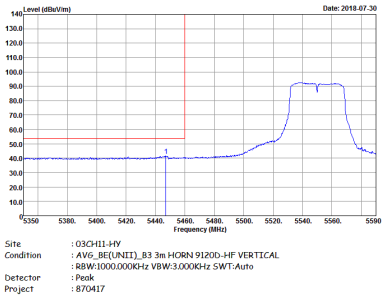
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

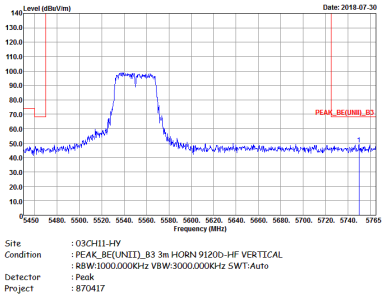
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

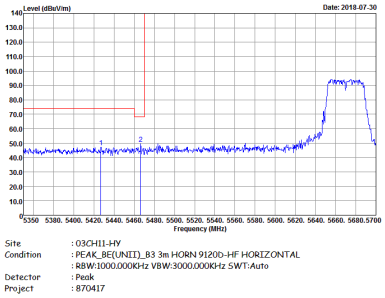
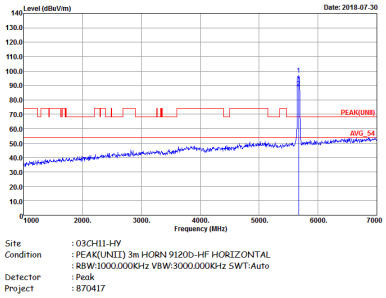
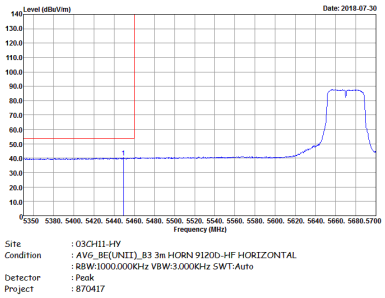
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

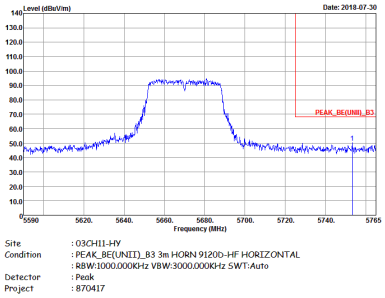
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

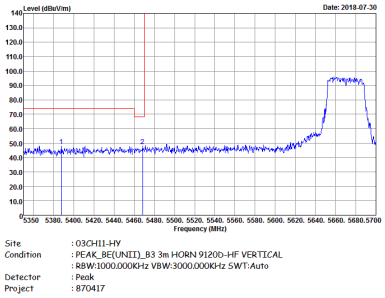
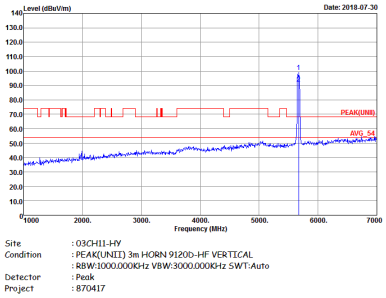
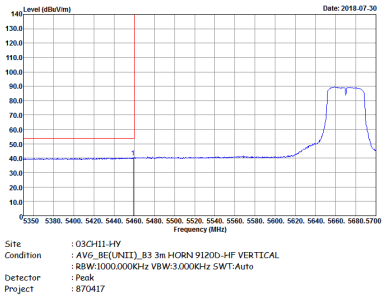
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

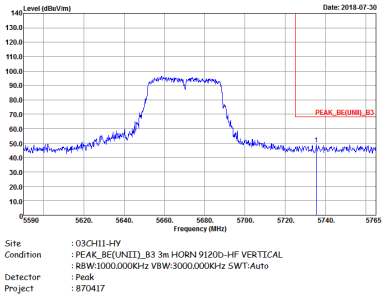
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

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

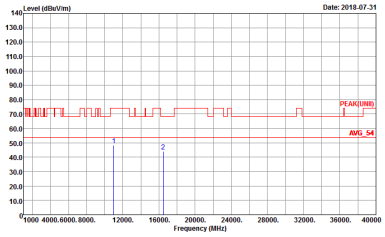
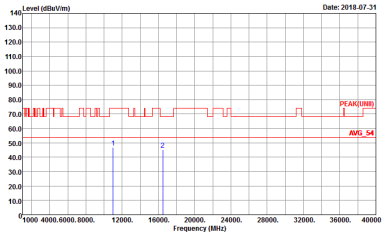
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

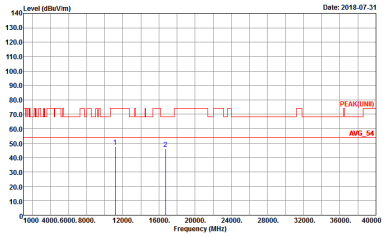
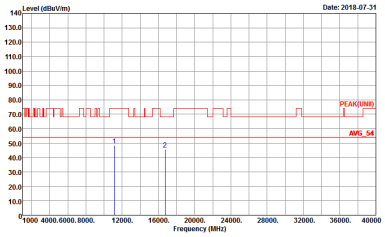
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

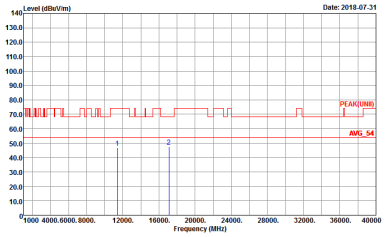
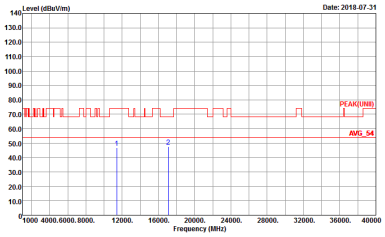
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

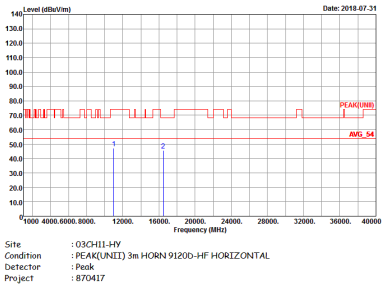
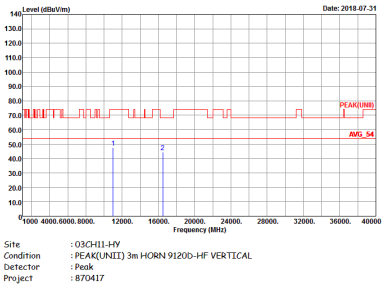
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

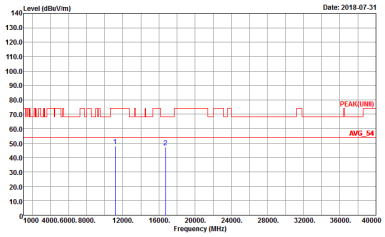
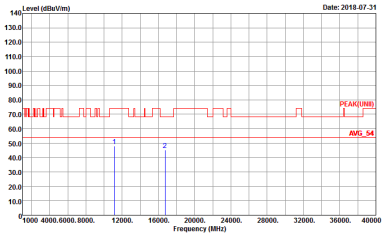
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

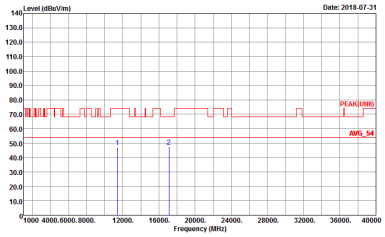
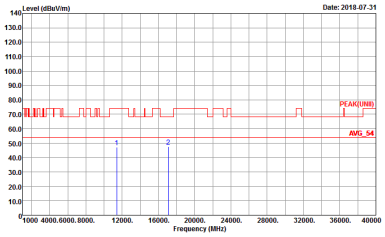
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

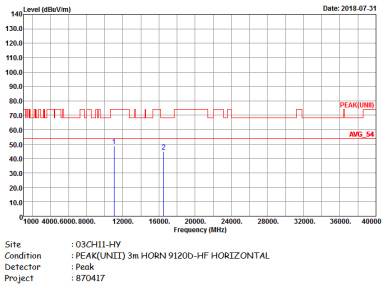
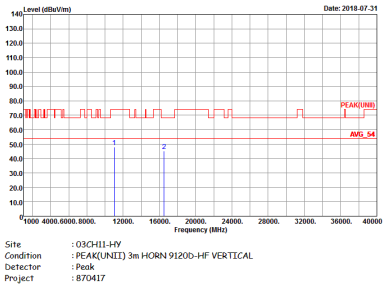
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

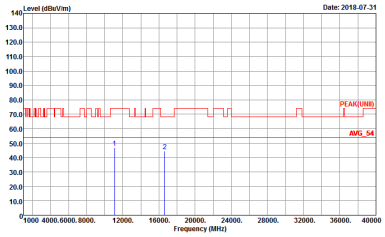
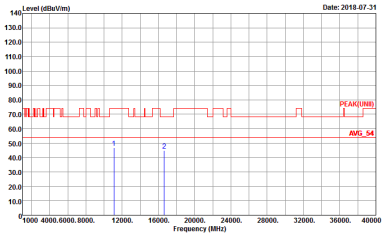
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

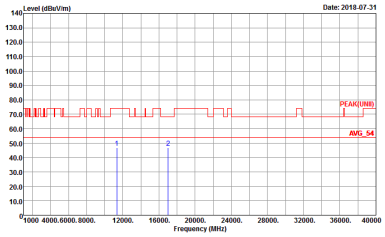
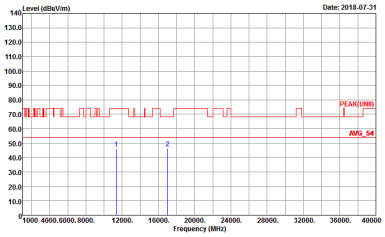
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

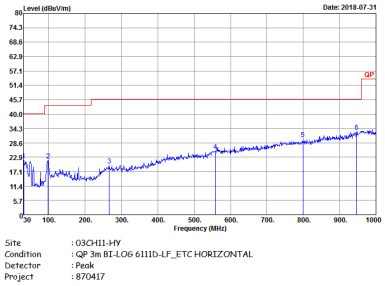
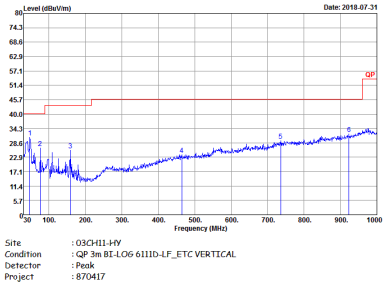
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 870417	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 870417

Emission below 1GHz

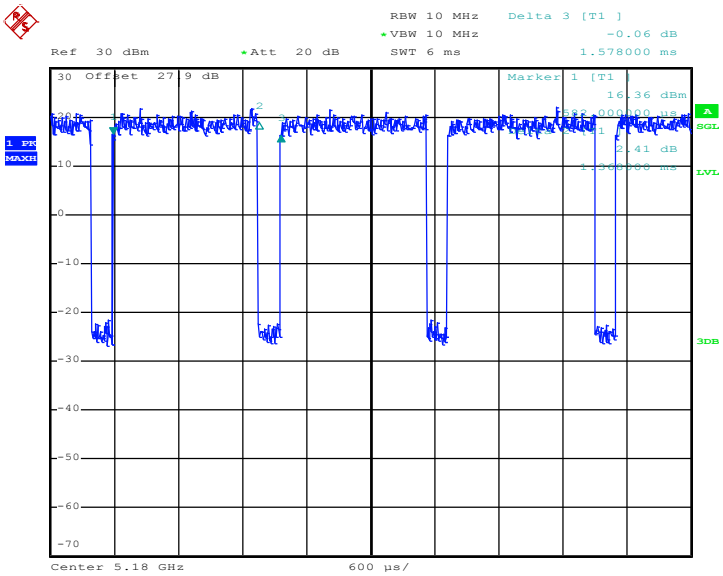
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

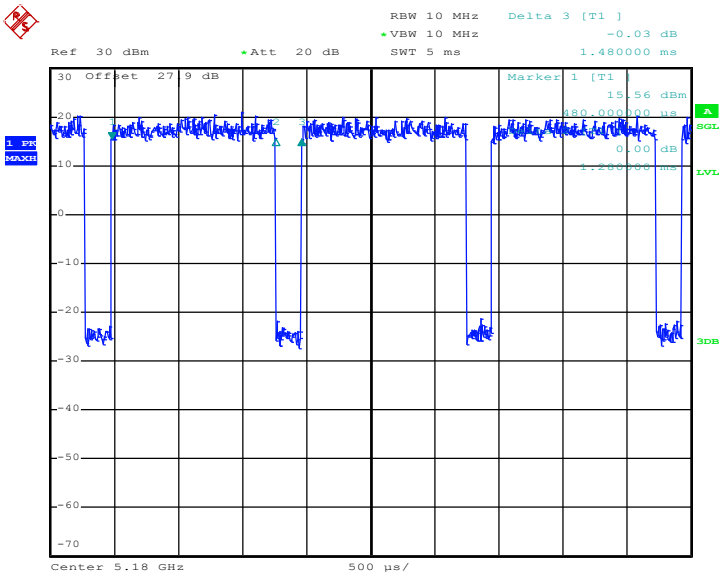
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	86.69	1368.00	0.73	1kHz	0.62
5GHz 802.11n HT20	86.49	1280.00	0.78	1kHz	0.63
5GHz 802.11n HT40	85.37	630.00	1.59	3kHz	0.69

802.11a



Date: 17.JUL.2018 04:27:57

802.11n HT20



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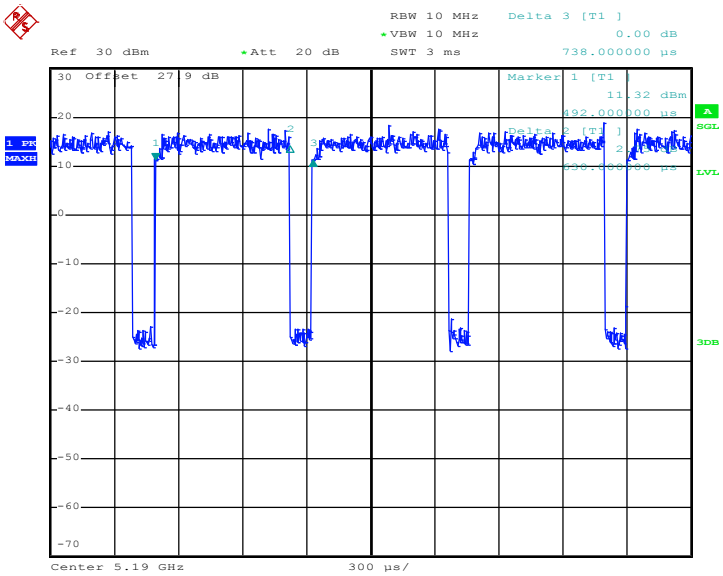
802.11n HT40



Date: 17.JUL.2018 04:57:28