FCC RF Test Report

APPLICANT	:	**MiTAC Digital Technology Corporation**
EQUIPMENT	:	**Tablet**
BRAND NAME	:	**Mitac, Magellan**
MODEL NAME	:	**N536B**
FCC ID	:	**P4Q-N536B**
STANDARD	:	**FCC Part 15 Subpart E §15.407**
CLASSIFICATION	:	**(NII) Unlicensed National Information Infrastructure**

The product was received on Mar. 23, 2018 and testing was completed on May 30, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR720610-10E	Rev. 01	Initial issue of report	Jun. 08, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 2.50 dB at 5466.640 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 5.09 dB at 3.678 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

MiTAC Digital Technology Corporation
No.200, Wen Hua 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

1.2 Manufacturer

MITAC Computer (Kunshan) Co,. Ltd.
No. 269, 2nd Avenue, District A, Conprehensive Free Trade Zone, 300 Kunshan, China

1.3 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	EUT with SKU 3
Sample 2	EUT with SKU 4
Integrated WLAN Module	Brand Name: Qualcomm Model Name: WCN3660B
Antenna Type	WWAN: PIFA Antenna WLAN: Holder with FPC Antenna Bluetooth: Holder with FPC Antenna NFC : Loop Antenna GPS / Glonass : PATCH Antenna

Remark: All the tests were performed with Sample 1.

<Sample Information>

Sample List		
SKU	**SKU 3**	**SKU 4**
Model name	N536B	N536B
WLAN	Support	Support
WWAN	Support (with voice)	Support (with voice)
RFID(13.56MHz)	Support	Support
Barcode	Support (SR)	Support (MR)
GPS	Support	Support

1.4 Modification of EUT

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

1.5 Testing Location

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

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY

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

1.6 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
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

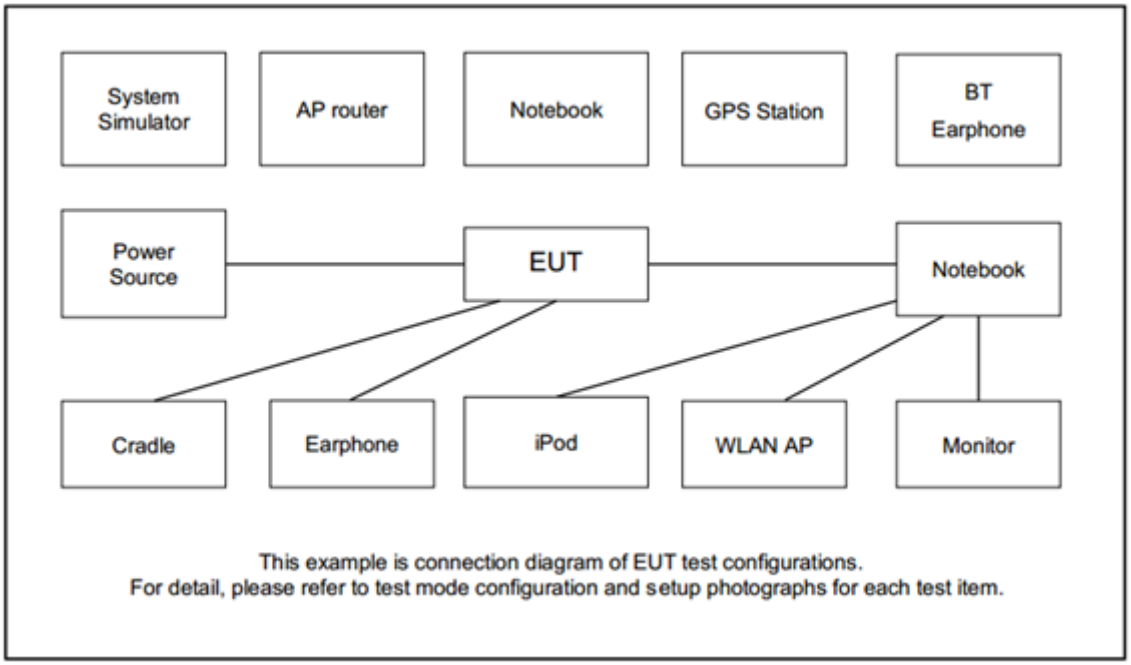
Test Cases	
AC Conducted Emission	Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN (5GHz) Link + NFC Link + Earphone + USB Cable (Charging from Adapter)

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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	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
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	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.

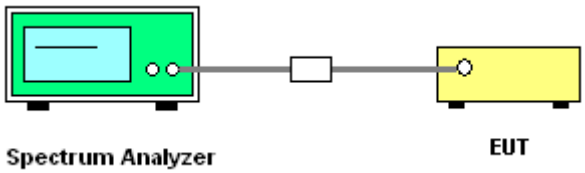
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

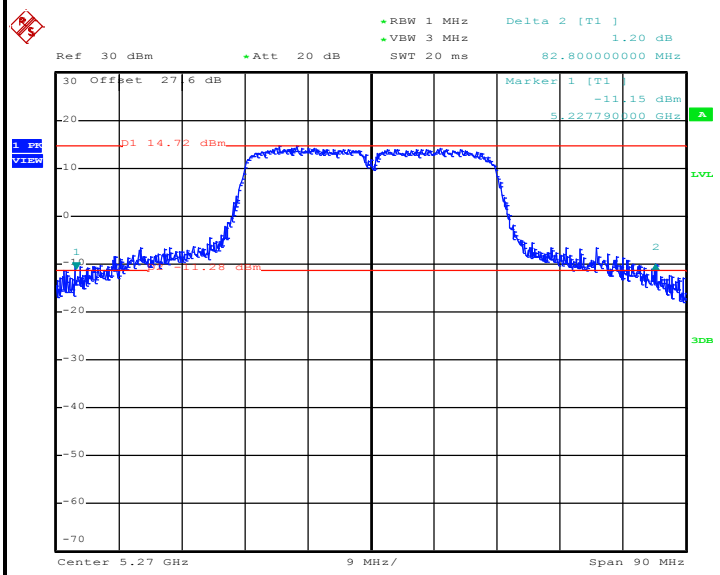
3.1.4 Test Setup



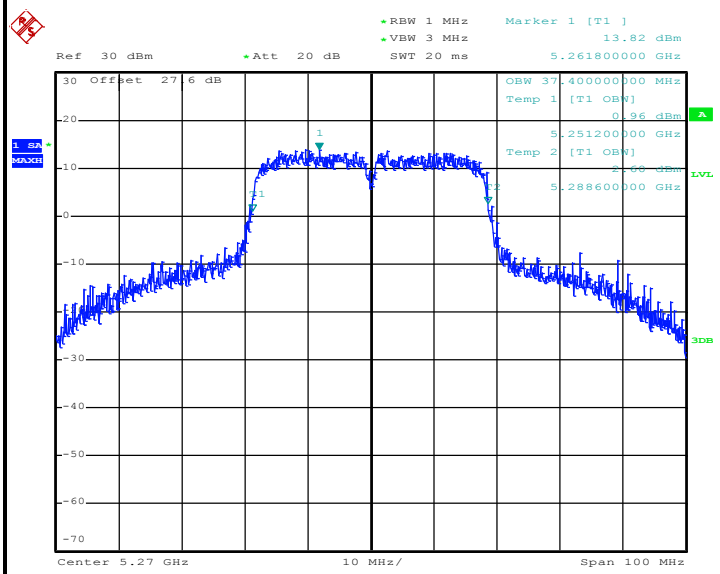
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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

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

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

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

3.2.2 Measuring Instruments

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

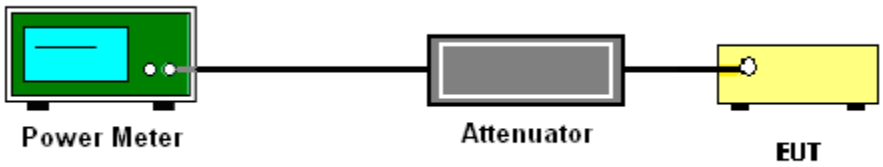
3.2.3 Test Procedures

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

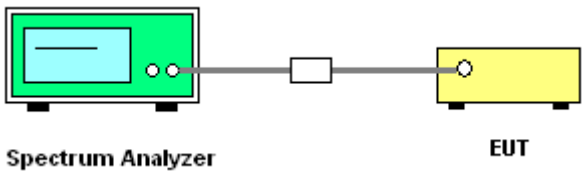
 # Method SA-2 #

(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.

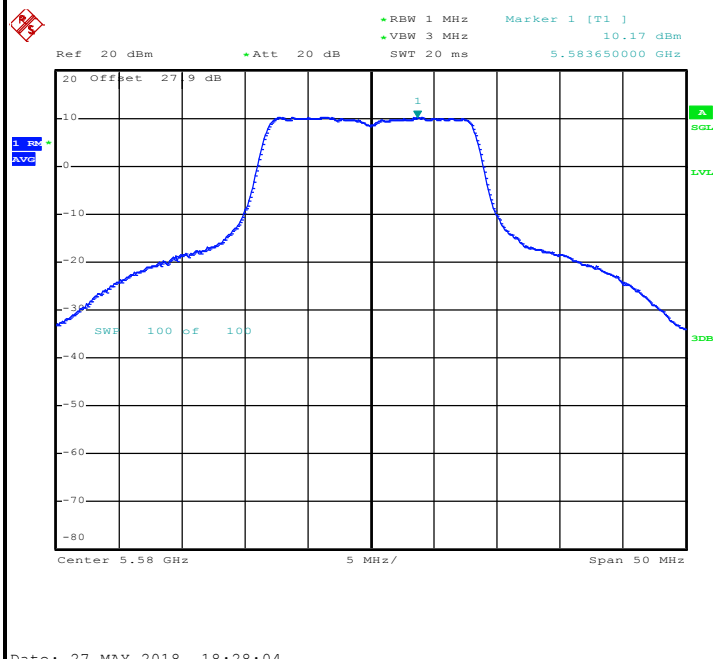
3.3.4 Test Setup



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)
-17	78.3
- 27	68.3

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

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

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

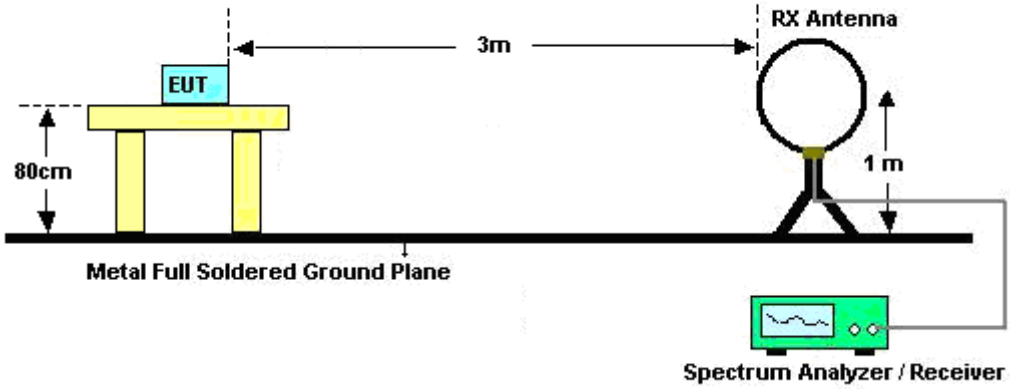
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

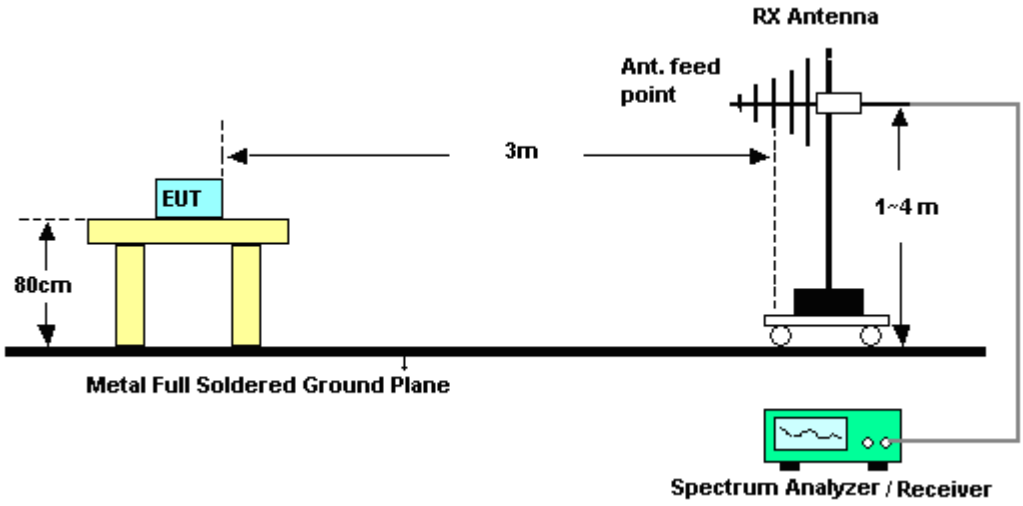
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

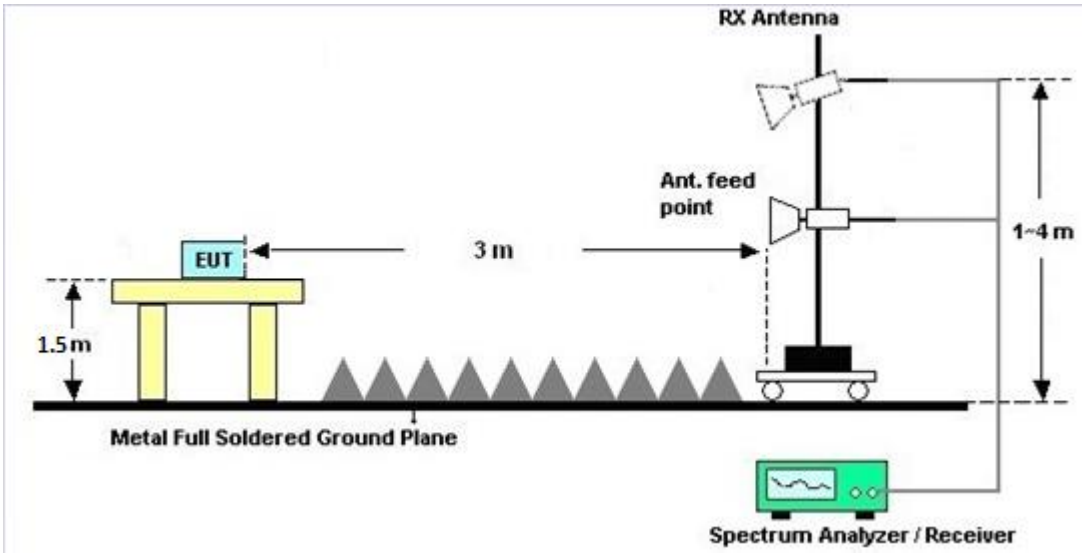
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated 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.

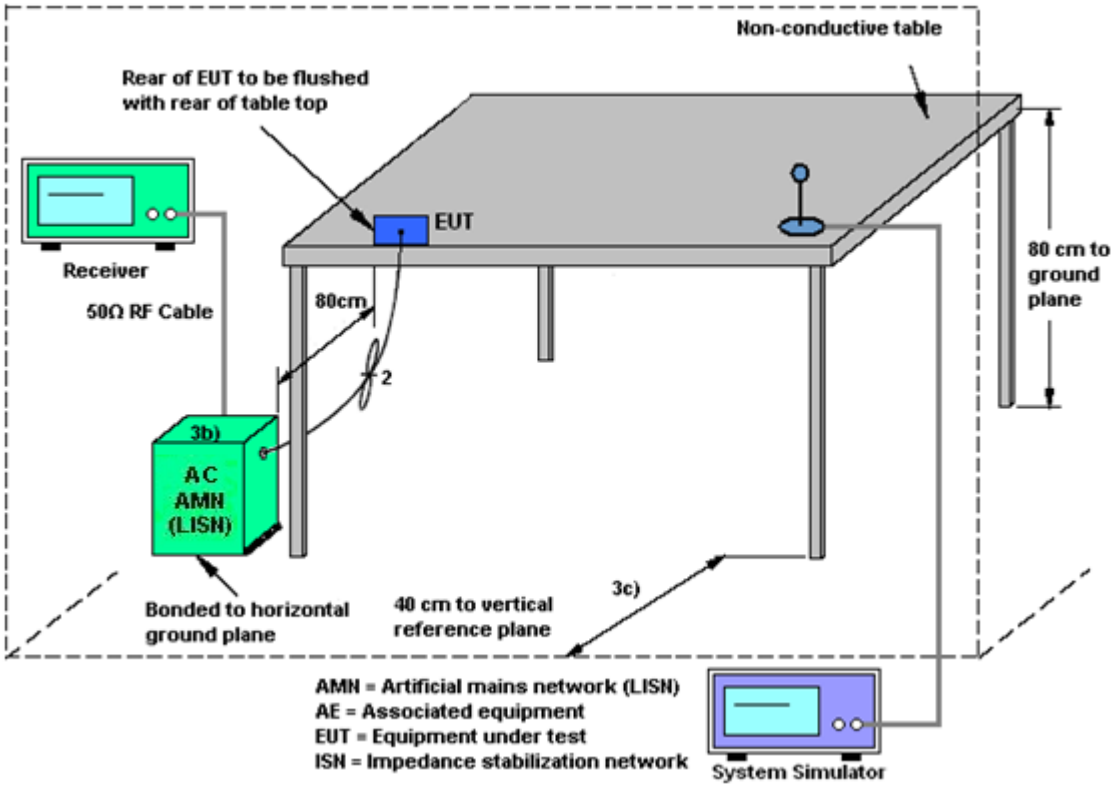
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

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

3.6.3 Test Result of Automatically Discontinue Transmission

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	1218006	N/A	Oct. 06, 2017	Apr. 28, 2018~ May 30, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 06, 2017	Apr. 28, 2018~ May 30, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Apr. 28, 2018~ May 30, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Apr. 28, 2018~ May 30, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 21, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 21, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 21, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Apr. 21, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Test Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 21, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 21, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 21, 2018	Jan. 02, 2019	Conduction (CO05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	May 19, 2018~ May 23, 2018	Jul. 17, 2018	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 31, 2017	May 19, 2018~ May 23, 2018	Oct. 30, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	May 19, 2018~ May 23, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	May 19, 2018~ May 23, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	May 19, 2018~ May 23, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 20, 2017	May 19, 2018~ May 23, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 26, 2018	May 19, 2018~ May 23, 2018	Mar. 25, 2019	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 15, 2018	May 19, 2018~ May 23, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2G Low Pass	Jul. 17, 2017	May 19, 2018~ May 23, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Filter	Woken	WHKX8-5272.5-6750-18000-40ST	SN2	6.75G Highpass	Jul. 17, 2017	May 19, 2018~ May 23, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 19, 2018~ May 23, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 19, 2018~ May 23, 2018	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz ~ 40GHz	Nov. 27, 2017	May 19, 2018~ May 23, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-303K	1710001800054002	1GHz~18GHz	Apr. 17, 2018	May 19, 2018~ May 23, 2018	Apr. 16, 2019	Radiation (03CH12-HY)
Test Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 19, 2018~ May 23, 2018	N/A	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	May 19, 2018~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Mar. 14, 2018	May 19, 2018~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36979/4	30M-18G	Mar. 14, 2018	May 19, 2018~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	May 19, 2018~ May 23, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	May 19, 2018~ May 23, 2018	Oct. 16, 2018	Radiation (03CH12-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))	**5.10**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.70**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/4/28~2018/05/30	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	18.75	-	40.55	-	-		22.73	-		
11a	6Mbps	1	44	5220	18.25	-	38.25	-	-		22.61	-		
11a	6Mbps	1	48	5240	18.90	-	37.05	-	-		22.76	-		
HT20	MCS0	1	36	5180	19.30	-	44.30	-	-		22.86	-		
HT20	MCS0	1	44	5220	19.05	-	39.30	-	-		22.80	-		
HT20	MCS0	1	48	5240	19.25	-	35.20	-	-		22.84	-		
HT40	MCS0	1	38	5190	36.60	-	45.65	-	-		23.01	-		
HT40	MCS0	1	46	5230	37.10	-	78.30	-	-		23.01	-		

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		-	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.62	-	19.15	-		24.00	-	0.32	-		Pass
11a	6Mbps	1	44	5220	0.62	-	18.89	-		24.00	-	0.32	-		Pass
11a	6Mbps	1	48	5240	0.62	-	18.84	-		24.00	-	0.32	-		Pass
HT20	MCS0	1	36	5180	0.66	-	18.80	-		24.00	-	0.32	-		Pass
HT20	MCS0	1	44	5220	0.66	-	18.81	-		24.00	-	0.32	-		Pass
HT20	MCS0	1	48	5240	0.66	-	18.20	-		24.00	-	0.32	-		Pass
HT40	MCS0	1	38	5190	0.69	-	13.64	-		24.00	-	0.32	-		Pass
HT40	MCS0	1	46	5230	0.69	-	19.27	-		24.00	-	0.32	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.62	-	8.22	-		11.00	-	0.32	-		Pass
11a	6Mbps	1	44	5220	0.62	-	7.60	-		11.00	-	0.32	-		Pass
11a	6Mbps	1	48	5240	0.62	-	7.28	-		11.00	-	0.32	-		Pass
HT20	MCS0	1	36	5180	0.66	-	6.80	-		11.00	-	0.32	-		Pass
HT20	MCS0	1	44	5220	0.66	-	6.72	-		11.00	-	0.32	-		Pass
HT20	MCS0	1	48	5240	0.66	-	6.16	-		11.00	-	0.32	-		Pass
HT40	MCS0	1	38	5190	0.69	-	-0.44	-		11.00	-	0.32	-		Pass
HT40	MCS0	1	46	5230	0.69	-	5.11	-		11.00	-	0.32	-		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	22.60	-	44.80	-	23.98	-	30.00	-	23.98	-	
11a	6Mbps	1	60	5300	21.35	-	44.10	-	23.98	-	30.00	-	23.98	-	
11a	6Mbps	1	64	5320	18.55	-	40.70	-	23.68	-	29.68	-	23.98	-	
HT20	MCS0	1	52	5260	22.15	-	47.00	-	23.98	-	30.00	-	23.98	-	
HT20	MCS0	1	60	5300	19.75	-	46.05	-	23.96	-	29.96	-	23.98	-	
HT20	MCS0	1	64	5320	19.00	-	39.50	-	23.79	-	29.79	-	23.98	-	
HT40	MCS0	1	54	5270	37.40	-	82.80	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.60	-	47.16	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.62	-	21.42	-		23.98	-	0.16	-	26.99	Pass
11a	6Mbps	1	60	5300	0.62	-	21.33	-		23.98	-	0.16	-	26.99	Pass
11a	6Mbps	1	64	5320	0.62	-	18.57	-		23.98	-	0.16	-	26.99	Pass
HT20	MCS0	1	52	5260	0.66	-	21.06	-		23.98	-	0.16	-	26.99	Pass
HT20	MCS0	1	60	5300	0.66	-	19.87	-		23.98	-	0.16	-	26.99	Pass
HT20	MCS0	1	64	5320	0.66	-	18.60	-		23.98	-	0.16	-	26.99	Pass
HT40	MCS0	1	54	5270	0.69	-	20.04	-		23.98	-	0.16	-	26.99	Pass
HT40	MCS0	1	62	5310	0.69	-	8.61	-		23.98	-	0.16	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.62	-	10.00	-		11.00	-	0.16	-		Pass
11a	6Mbps	1	60	5300	0.62	-	9.43	-		11.00	-	0.16	-		Pass
11a	6Mbps	1	64	5320	0.62	-	6.75	-		11.00	-	0.16	-		Pass
HT20	MCS0	1	52	5260	0.66	-	9.29	-		11.00	-	0.16	-		Pass
HT20	MCS0	1	60	5300	0.66	-	8.07	-		11.00	-	0.16	-		Pass
HT20	MCS0	1	64	5320	0.66	-	6.46	-		11.00	-	0.16	-		Pass
HT40	MCS0	1	54	5270	0.69	-	5.62	-		11.00	-	0.16	-		Pass
HT40	MCS0	1	62	5310	0.69	-	-5.70	-		11.00	-	0.16	-		Pass

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	18.35	-	40.95	-	23.64	-	29.64	-	23.98	-	----	----
11a	6Mbps	1	116	5580	18.70	-	41.60	-	23.72	-	29.72	-	23.98	-	----	----
11a	6Mbps	1	140	5700	18.15	-	24.00	-	23.59	-	29.59	-	23.98	-	----	----
HT20	MCS0	1	100	5500	18.25	-	35.90	-	23.61	-	29.61	-	23.98	-	----	----
HT20	MCS0	1	116	5580	20.70	-	46.75	-	23.98	-	30.00	-	23.98	-	----	----
HT20	MCS0	1	140	5700	18.90	-	24.30	-	23.76	-	29.76	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.50	-	49.14	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.90	-	75.24	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.50	-	46.50	-	23.98	-	30.00	-	23.98	-	----	----

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.62	-	19.84	-		23.98	-	0.49	-	26.99	Pass
11a	6Mbps	1	116	5580	0.62	-	21.17	-		23.98	-	0.49	-	26.99	Pass
11a	6Mbps	1	140	5700	0.62	-	15.37	-		23.98	-	0.49	-	26.99	Pass
HT20	MCS0	1	100	5500	0.66	-	19.06	-		23.98	-	0.49	-	26.99	Pass
HT20	MCS0	1	116	5580	0.66	-	21.77	-		23.98	-	0.49	-	26.99	Pass
HT20	MCS0	1	140	5700	0.66	-	15.23	-		23.98	-	0.49	-	26.99	Pass
HT40	MCS0	1	102	5510	0.69	-	16.04	-		23.98	-	0.49	-	26.99	Pass
HT40	MCS0	1	110	5550	0.69	-	19.79	-		23.98	-	0.49	-	26.99	Pass
HT40	MCS0	1	134	5670	0.69	-	17.97	-		23.98	-	0.49	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

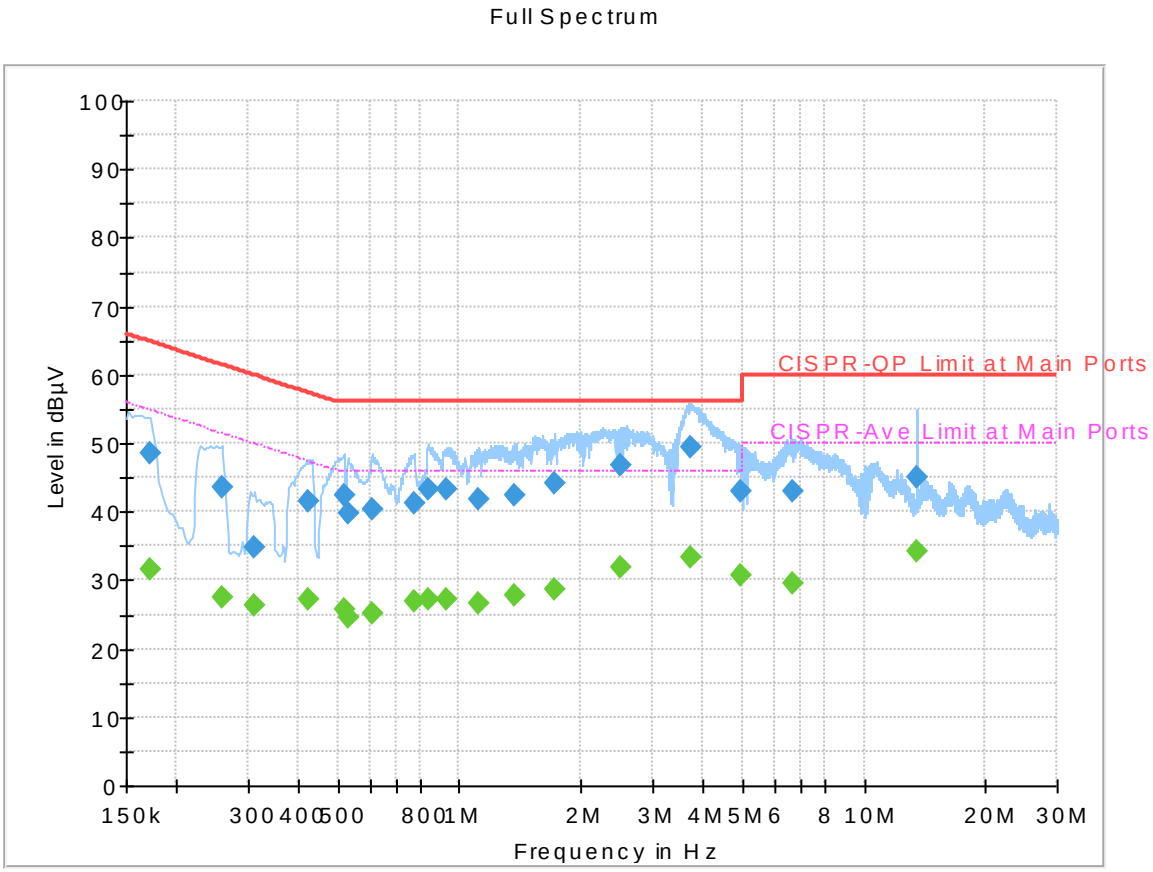
Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		-	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.62	-	8.94	-		11.00	-	0.49	-		Pass
11a	6Mbps	1	116	5580	0.62	-	10.79	-		11.00	-	0.49	-		Pass
11a	6Mbps	1	140	5700	0.62	-	4.14	-		11.00	-	0.49	-		Pass
HT20	MCS0	1	100	5500	0.66	-	7.23	-		11.00	-	0.49	-		Pass
HT20	MCS0	1	116	5580	0.66	-	10.12	-		11.00	-	0.49	-		Pass
HT20	MCS0	1	140	5700	0.66	-	3.69	-		11.00	-	0.49	-		Pass
HT40	MCS0	1	102	5510	0.69	-	1.27	-		11.00	-	0.49	-		Pass
HT40	MCS0	1	110	5550	0.69	-	5.54	-		11.00	-	0.49	-		Pass
HT40	MCS0	1	134	5670	0.69	-	3.93	-		11.00	-	0.49	-		Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	**Temperature :**	23~24℃
		Relative Humidity :	58~63%

EUT Information

Report NO :	720610-10
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



Final_Result

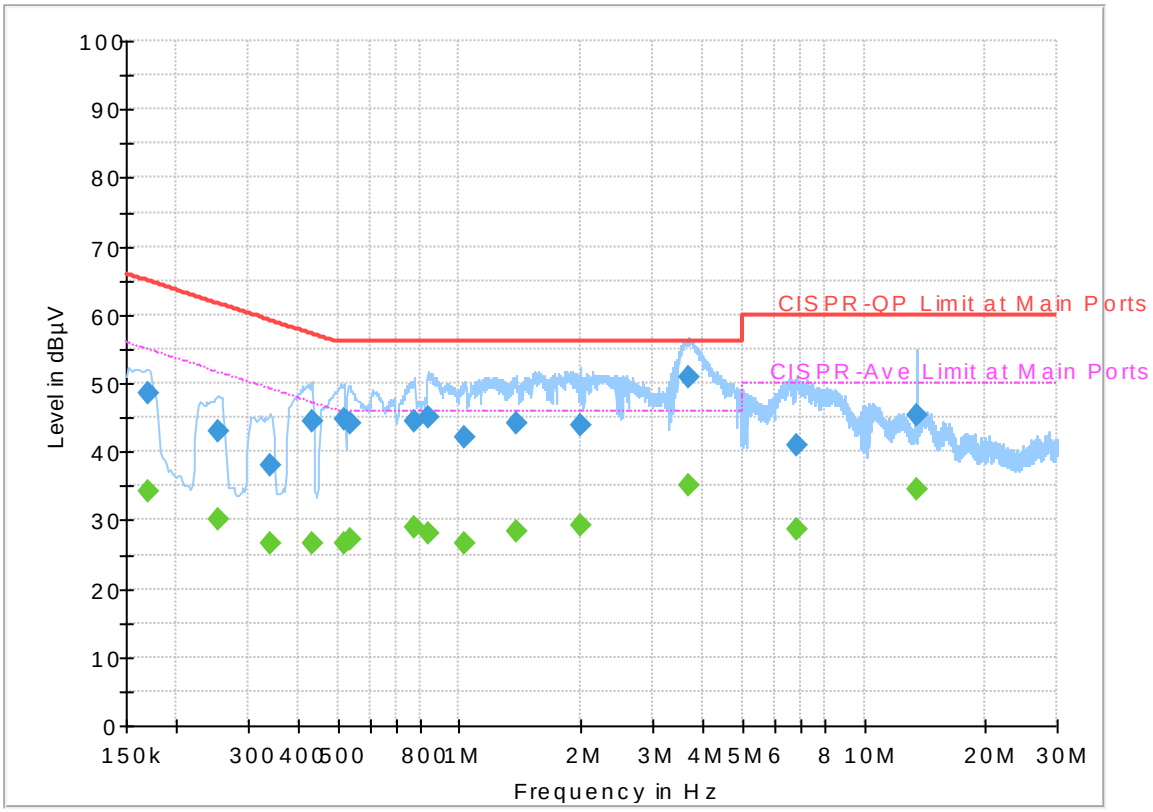
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	31.65	54.84	23.19	L1	OFF	19.5
0.172500	48.43	---	64.84	16.41	L1	OFF	19.5
0.258000	---	27.63	51.50	23.87	L1	OFF	19.5
0.258000	43.62	---	61.50	17.88	L1	OFF	19.5
0.312000	---	26.20	49.92	23.72	L1	OFF	19.5
0.312000	34.91	---	59.92	25.01	L1	OFF	19.5
0.424500	---	27.07	47.36	20.29	L1	OFF	19.5
0.424500	41.56	---	57.36	15.80	L1	OFF	19.5
0.516750	---	25.66	46.00	20.34	L1	OFF	19.5
0.516750	42.46	---	56.00	13.54	L1	OFF	19.5
0.530250	---	24.49	46.00	21.51	L1	OFF	19.5
0.530250	39.75	---	56.00	16.25	L1	OFF	19.5
0.606750	---	25.03	46.00	20.97	L1	OFF	19.5
0.606750	40.46	---	56.00	15.54	L1	OFF	19.5
0.775500	---	26.91	46.00	19.09	L1	OFF	19.5
0.775500	41.09	---	56.00	14.91	L1	OFF	19.5
0.834000	---	27.13	46.00	18.87	L1	OFF	19.5
0.834000	43.16	---	56.00	12.84	L1	OFF	19.5
0.924000	---	27.27	46.00	18.73	L1	OFF	19.5
0.924000	43.22	---	56.00	12.78	L1	OFF	19.5
1.119750	---	26.49	46.00	19.51	L1	OFF	19.5

1.119750	41.68	---	56.00	14.32	L1	OFF	19.5
1.369500	---	27.84	46.00	18.16	L1	OFF	19.6
1.369500	42.26	---	56.00	13.74	L1	OFF	19.6
1.722750	---	28.72	46.00	17.28	L1	OFF	19.6
1.722750	44.19	---	56.00	11.81	L1	OFF	19.6
2.503500	---	31.77	46.00	14.23	L1	OFF	19.5
2.503500	46.90	---	56.00	9.10	L1	OFF	19.5
3.711750	---	33.28	46.00	12.72	L1	OFF	19.6
3.711750	49.55	---	56.00	6.45	L1	OFF	19.6
4.962750	---	30.62	46.00	15.38	L1	OFF	19.6
4.962750	43.02	---	56.00	12.98	L1	OFF	19.6
6.670500	---	29.57	50.00	20.43	L1	OFF	19.6
6.670500	42.93	---	60.00	17.07	L1	OFF	19.6
13.560000	---	34.32	50.00	15.68	L1	OFF	19.7
13.560000	45.02	---	60.00	14.98	L1	OFF	19.7

EUT Information

Report NO :	720610-10
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)
0.170250	---	34.22	54.95	20.73	N	OFF	19.5
0.170250	48.55	---	64.95	16.40	N	OFF	19.5
0.253500	---	30.05	51.64	21.59	N	OFF	19.5
0.253500	42.84	---	61.64	18.80	N	OFF	19.5
0.339000	---	26.54	49.23	22.69	N	OFF	19.5
0.339000	38.02	---	59.23	21.21	N	OFF	19.5
0.431250	---	26.57	47.23	20.66	N	OFF	19.5
0.431250	44.34	---	57.23	12.89	N	OFF	19.5
0.516750	---	26.70	46.00	19.30	N	OFF	19.5
0.516750	44.75	---	56.00	11.25	N	OFF	19.5
0.534750	---	27.29	46.00	18.71	N	OFF	19.5
0.534750	44.09	---	56.00	11.91	N	OFF	19.5
0.775500	---	28.90	46.00	17.10	N	OFF	19.5
0.775500	44.47	---	56.00	11.53	N	OFF	19.5
0.834000	---	28.18	46.00	17.82	N	OFF	19.5
0.834000	44.93	---	56.00	11.07	N	OFF	19.5
1.034250	---	26.66	46.00	19.34	N	OFF	19.5
1.034250	42.19	---	56.00	13.81	N	OFF	19.5
1.378500	---	28.49	46.00	17.51	N	OFF	19.5
1.378500	44.08	---	56.00	11.92	N	OFF	19.5
1.983750	---	29.33	46.00	16.67	N	OFF	19.6

1.983750	**43.97**	**---**	**56.00**	**12.03**	**N**	**OFF**	**19.6**
3.678000	**---**	**34.94**	**46.00**	**11.06**	**N**	**OFF**	**19.6**
3.678000	**50.91**	**---**	**56.00**	**5.09**	**N**	**OFF**	**19.6**
6.852750	**---**	**28.54**	**50.00**	**21.46**	**N**	**OFF**	**19.6**
6.852750	**40.80**	**---**	**60.00**	**19.20**	**N**	**OFF**	**19.6**
13.560000	**---**	**34.56**	**50.00**	**15.44**	**N**	**OFF**	**19.8**
13.560000	**45.20**	**---**	**60.00**	**14.80**	**N**	**OFF**	**19.8**

Appendix C. Radiated Spurious Emission

Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	Temperature :	23~25°C
		Relative Humidity :	61~65%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	64.99	-9.01	74	58.35	31.79	5.99	31.14	121	71	P	H
		5150	48.08	-5.92	54	41.44	31.79	5.99	31.14	121	71	A	H
	*	5180	110.42	-	-	103.73	31.81	6.02	31.14	121	71	P	H
	*	5180	99.03	-	-	92.34	31.81	6.02	31.14	121	71	A	H
													H
													H
		5149.5	63.84	-10.16	74	57.2	31.79	5.99	31.14	100	119	P	V
		5150	47.65	-6.35	54	41.01	31.79	5.99	31.14	100	119	A	V
	*	5180	109.5	-	-	102.81	31.81	6.02	31.14	100	119	P	V
	*	5180	98.48	-	-	91.79	31.81	6.02	31.14	100	119	A	V
													V
													V
802.11a CH 44 5220MHz		5140.92	52.3	-21.7	74	45.67	31.79	5.98	31.14	100	67	P	H
		5022.88	39.84	-14.16	54	33.36	31.72	5.9	31.14	100	67	A	H
	*	5220	110.94	-	-	104.21	31.83	6.04	31.14	100	67	P	H
	*	5220	99.06	-	-	92.33	31.83	6.04	31.14	100	67	A	H
		5407.64	51.36	-22.64	74	44.41	31.94	6.16	31.15	100	67	P	H
		5408.76	41.69	-12.31	54	34.74	31.94	6.16	31.15	100	67	A	H
		5044.98	49.84	-24.16	74	43.33	31.73	5.92	31.14	100	123	P	V
		5035.1	39.45	-14.55	54	32.95	31.72	5.92	31.14	100	123	A	V
	*	5220	110.03	-	-	103.3	31.83	6.04	31.14	100	123	P	V
	*	5220	99.21	-	-	92.48	31.83	6.04	31.14	100	123	A	V
		5411.28	51.63	-22.37	74	44.68	31.94	6.16	31.15	100	123	P	V
		5405.68	41.61	-12.39	54	34.66	31.94	6.16	31.15	100	123	A	V

802.11a CH 48 5240MHz		5126.1	51.32	-22.68	74	44.7	31.78	5.98	31.14	100	69	P	H
		5053.82	39.8	-14.2	54	33.28	31.73	5.93	31.14	100	69	A	H
	*	5240	110.23	-	-	103.48	31.84	6.05	31.14	100	69	P	H
	*	5240	99.34	-	-	92.59	31.84	6.05	31.14	100	69	A	H
		5429.76	51.69	-22.31	74	44.7	31.96	6.18	31.15	100	69	P	H
		5439.56	41.64	-12.36	54	34.64	31.96	6.19	31.15	100	69	A	H
		5125.32	50.75	-23.25	74	44.13	31.78	5.98	31.14	100	119	P	V
		5043.42	39.59	-14.41	54	33.08	31.73	5.92	31.14	100	119	A	V
	*	5240	110.23	-	-	103.48	31.84	6.05	31.14	100	119	P	V
	*	5240	99.22	-	-	92.47	31.84	6.05	31.14	100	119	A	V
		5436.76	51.96	-22.04	74	44.96	31.96	6.19	31.15	100	119	P	V
		5435.92	41.37	-12.63	54	34.37	31.96	6.19	31.15	100	119	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	49.16	-19.04	68.2	59.5	39.86	9.79	59.99	100	0	P	H
		15540	45.52	-28.48	74	52.8	38.53	12.23	58.04	100	0	P	H
													H
													H
		10360	51.1	-17.1	68.2	61.44	39.86	9.79	59.99	100	0	P	V
		15540	45.59	-28.41	74	52.87	38.53	12.23	58.04	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	48.84	-19.36	68.2	59.21	39.98	9.82	60.17	100	0	P	H
		15660	44.86	-29.14	74	52.17	38.29	12.28	57.88	100	0	P	H
													H
													H
		10440	49.85	-18.35	68.2	60.22	39.98	9.82	60.17	100	0	P	V
		15660	44.96	-29.04	74	52.27	38.29	12.28	57.88	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	47.81	-20.39	68.2	58.15	40.07	9.85	60.26	100	0	P	H
		15720	45.77	-28.23	74	53.11	38.15	12.3	57.79	100	0	P	H
													H
													H
		10480	49.79	-18.41	68.2	60.13	40.07	9.85	60.26	100	0	P	V
		15720	45.78	-28.22	74	53.12	38.15	12.3	57.79	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)
		5144.3	62.84	-11.16	74	56.2	31.79	5.99	31.14	122	71	P	H
		5149.5	47.89	-6.11	54	41.25	31.79	5.99	31.14	122	71	A	H
	*	5180	109.54	-	-	102.85	31.81	6.02	31.14	122	71	P	H
	*	5180	98.26	-	-	91.57	31.81	6.02	31.14	122	71	A	H
802.11n													H
HT20													H
CH 36		5148.72	61.97	-12.03	74	55.33	31.79	5.99	31.14	100	124	P	V
5180MHz		5150	47.7	-6.3	54	41.06	31.79	5.99	31.14	100	124	A	V
	*	5180	108.46	-	-	101.77	31.81	6.02	31.14	100	124	P	V
	*	5180	97.82	-	-	91.13	31.81	6.02	31.14	100	124	A	V
													V
													V
		5104.26	52.22	-21.78	74	45.65	31.76	5.95	31.14	126	70	P	H
		5035.36	39.44	-14.56	54	32.94	31.72	5.92	31.14	126	70	A	H
	*	5220	110.27	-	-	103.54	31.83	6.04	31.14	126	70	P	H
	*	5220	99.21	-	-	92.48	31.83	6.04	31.14	126	70	A	H
802.11n		5404.56	53.73	-20.27	74	46.78	31.94	6.16	31.15	126	70	P	H
HT20		5404	41.13	-12.87	54	34.18	31.94	6.16	31.15	126	70	A	H
CH 44		5141.96	51.93	-22.07	74	45.3	31.79	5.98	31.14	100	125	P	V
5220MHz		5033.8	39.03	-14.97	54	32.55	31.72	5.9	31.14	100	125	A	V
	*	5220	109.6	-	-	102.87	31.83	6.04	31.14	100	125	P	V
	*	5220	98.79	-	-	92.06	31.83	6.04	31.14	100	125	A	V
		5405.68	53.84	-20.16	74	46.89	31.94	6.16	31.15	100	125	P	V
		5406.24	40.97	-13.03	54	34.02	31.94	6.16	31.15	100	125	A	V

		5125.32	53.07	-20.93	74	46.45	31.78	5.98	31.14	122	70	P	H
		5042.9	40.08	-13.92	54	33.57	31.73	5.92	31.14	122	70	A	H
	*	5240	110.56	-	-	103.81	31.84	6.05	31.14	122	70	P	H
	*	5240	98.77	-	-	92.02	31.84	6.05	31.14	122	70	A	H
802.11n		5364.24	55.19	-18.81	74	48.28	31.92	6.14	31.15	122	70	P	H
HT20		5438.44	41.2	-12.8	54	34.2	31.96	6.19	31.15	122	70	A	H
CH 48		5065	51.56	-22.44	74	45.03	31.74	5.93	31.14	100	125	P	V
5240MHz		5041.6	39.18	-14.82	54	32.67	31.73	5.92	31.14	100	125	A	V
	*	5240	109.73	-	-	102.98	31.84	6.05	31.14	100	125	P	V
	*	5240	98.58	-	-	91.83	31.84	6.05	31.14	100	125	A	V
		5364.8	54.41	-19.59	74	47.5	31.92	6.14	31.15	100	125	P	V
		5426.96	41.06	-12.94	54	34.08	31.95	6.18	31.15	100	125	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)
		10360	48.15	-20.05	68.2	58.49	39.86	9.79	59.99	100	0	P	H
		15540	45	-29	74	52.28	38.53	12.23	58.04	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	49.32	-18.88	68.2	59.66	39.86	9.79	59.99	100	0	P	V
5180MHz		15540	44.74	-29.26	74	52.02	38.53	12.23	58.04	100	0	P	V
													V
													V
		10440	46.88	-21.32	68.2	57.25	39.98	9.82	60.17	100	0	P	H
		15660	45.06	-28.94	74	52.37	38.29	12.28	57.88	100	0	P	H
802.11n													H
HT20													H
CH 44		10440	47.53	-20.67	68.2	57.9	39.98	9.82	60.17	100	0	P	V
5220MHz		15660	44.23	-29.77	74	51.54	38.29	12.28	57.88	100	0	P	V
													V
													V
		10480	50.12	-18.08	68.2	60.46	40.07	9.85	60.26	100	0	P	H
		15720	45.44	-28.56	74	52.78	38.15	12.3	57.79	100	0	P	H
802.11n													H
HT20													H
CH 48		10480	50.79	-17.41	68.2	61.13	40.07	9.85	60.26	100	0	P	V
5240MHz		15720	45.69	-28.31	74	53.03	38.15	12.3	57.79	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		5148.98	57.28	-16.72	74	50.64	31.79	5.99	31.14	112	81	P	H
		5141.96	50.49	-3.51	54	43.86	31.79	5.98	31.14	112	81	A	H
	*	5190	100.63	-	-	93.94	31.81	6.02	31.14	112	81	P	H
	*	5190	90.29	-	-	83.6	31.81	6.02	31.14	112	81	A	H
		5405.96	49.27	-24.73	74	42.32	31.94	6.16	31.15	112	81	P	H
		5366.2	38.81	-15.19	54	31.9	31.92	6.14	31.15	112	81	A	H
		5149.76	59.92	-14.08	74	53.28	31.79	5.99	31.14	100	117	P	V
		5142.22	51.21	-2.79	54	44.58	31.79	5.98	31.14	100	117	A	V
	*	5190	101.32	-	-	94.63	31.81	6.02	31.14	100	117	P	V
	*	5190	90.7	-	-	84.01	31.81	6.02	31.14	100	117	A	V
		5392.8	49.61	-24.39	74	42.68	31.93	6.15	31.15	100	117	P	V
		5390.28	38.84	-15.16	54	31.91	31.93	6.15	31.15	100	117	A	V
802.11n HT40 CH 46 5230MHz		5150	54.07	-19.93	74	47.43	31.79	5.99	31.14	109	80	P	H
		5148.72	42.39	-11.61	54	35.75	31.79	5.99	31.14	109	80	A	H
	*	5230	107.14	-	-	100.4	31.84	6.04	31.14	109	80	P	H
	*	5230	96.73	-	-	89.99	31.84	6.04	31.14	109	80	A	H
		5364.24	51.65	-22.35	74	44.74	31.92	6.14	31.15	109	80	P	H
		5411	42	-12	54	35.05	31.94	6.16	31.15	109	80	A	H
		5146.9	54.08	-19.92	74	47.44	31.79	5.99	31.14	103	124	P	V
		5150	42.38	-11.62	54	35.74	31.79	5.99	31.14	103	124	A	V
	*	5230	107.31	-	-	100.57	31.84	6.04	31.14	103	124	P	V
	*	5230	96.82	-	-	90.08	31.84	6.04	31.14	103	124	A	V
		5367.88	51.82	-22.18	74	44.91	31.92	6.14	31.15	103	124	P	V
		5412.68	42.06	-11.94	54	35.08	31.95	6.18	31.15	103	124	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)
		10380	46.84	-27.16	74	57.19	39.89	9.8	60.04	100	0	P	H
		15570	44.83	-29.17	74	52.13	38.46	12.24	58	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	46.6	-27.4	74	56.95	39.89	9.8	60.04	100	0	P	V
5190MHz		15570	44.89	-29.11	74	52.19	38.46	12.24	58	100	0	P	V
													V
													V
		10460	47.63	-26.37	74	58	40.01	9.83	60.21	100	0	P	H
		15690	46.34	-27.66	74	53.67	38.22	12.28	57.83	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	49.34	-24.66	74	59.71	40.01	9.83	60.21	100	0	P	V
5230MHz		15690	45.22	-28.78	74	52.55	38.22	12.28	57.83	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5070.38	51.1	-22.9	74	44.57	31.74	5.93	31.14	126	71	P	H
		5071.74	41.15	-12.85	54	34.6	31.75	5.94	31.14	126	71	A	H
	*	5260	112.65	-	-	105.87	31.86	6.07	31.15	126	71	P	H
	*	5260	101.49	-	-	94.71	31.86	6.07	31.15	126	71	A	H
		5361.36	54.6	-19.4	74	47.69	31.92	6.14	31.15	126	71	P	H
		5446.32	43.95	-10.05	54	36.94	31.97	6.19	31.15	126	71	A	H
		5141.1	50.68	-23.32	74	44.05	31.79	5.98	31.14	100	116	P	V
		5063.58	40.56	-13.44	54	34.03	31.74	5.93	31.14	100	116	A	V
	*	5260	112.9	-	-	106.12	31.86	6.07	31.15	100	116	P	V
	*	5260	101.65	-	-	94.87	31.86	6.07	31.15	100	116	A	V
		5380.08	54.94	-19.06	74	48.01	31.93	6.15	31.15	100	116	P	V
		5446.32	43.96	-10.04	54	36.95	31.97	6.19	31.15	100	116	A	V
802.11a CH 60 5300MHz		5113.56	51.35	-22.65	74	44.75	31.77	5.97	31.14	109	69	P	H
		5112.2	41.56	-12.44	54	34.96	31.77	5.97	31.14	109	69	A	H
	*	5300	113.79	-	-	106.97	31.88	6.09	31.15	109	69	P	H
	*	5300	102.76	-	-	95.94	31.88	6.09	31.15	109	69	A	H
		5353.2	60.73	-13.27	74	53.85	31.91	6.12	31.15	109	69	P	H
		5352	49.08	-4.92	54	42.2	31.91	6.12	31.15	109	69	A	H
		5129.88	50.95	-23.05	74	44.33	31.78	5.98	31.14	100	120	P	V
		5113.9	41.45	-12.55	54	34.85	31.77	5.97	31.14	100	120	A	V
	*	5300	114.03	-	-	107.21	31.88	6.09	31.15	100	120	P	V
	*	5300	102.86	-	-	96.04	31.88	6.09	31.15	100	120	A	V
		5353.44	59.45	-14.55	74	52.57	31.91	6.12	31.15	100	120	P	V
		5352	48.8	-5.2	54	41.92	31.91	6.12	31.15	100	120	A	V

802.11a CH 64 5320MHz	*	5320	112.02	-	-	105.18	31.89	6.1	31.15	121	68	P	H
	*	5320	100.31	-	-	93.47	31.89	6.1	31.15	121	68	A	H
		5351.52	66.44	-7.56	74	59.56	31.91	6.12	31.15	121	68	P	H
		5350.24	48.77	-5.23	54	41.89	31.91	6.12	31.15	121	68	A	H
													H
													H
	*	5320	111.15	-	-	104.31	31.89	6.1	31.15	100	123	P	V
	*	5320	100.26	-	-	93.42	31.89	6.1	31.15	100	123	A	V
		5352	62.13	-11.87	74	55.25	31.91	6.12	31.15	100	123	P	V
		5350.24	48	-6	54	41.12	31.91	6.12	31.15	100	123	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	49.6	-18.6	68.2	59.97	40.11	9.87	60.35	100	0	P	H
		15780	44.37	-29.63	74	51.71	38.05	12.32	57.71	100	0	P	H
													H
													H
		10520	53.27	-14.93	68.2	63.64	40.11	9.87	60.35	100	0	P	V
		15780	46.04	-27.96	74	53.38	38.05	12.32	57.71	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	48.25	-25.75	74	58.71	40.18	9.9	60.54	100	0	P	H
		15900	45.52	-28.48	74	52.88	37.81	12.37	57.54	100	0	P	H
													H
													H
		10600	52.42	-21.58	74	62.88	40.18	9.9	60.54	100	339	P	V
		10600	42.67	-11.33	54	53.13	40.18	9.9	60.54	100	339	A	V
		15900	44.58	-29.42	74	51.94	37.81	12.37	57.54	100	0	P	V
													V
802.11a CH 64 5320MHz		10640	48.66	-25.34	74	59.18	40.21	9.91	60.64	100	0	P	H
		15960	44.16	-29.84	74	51.57	37.67	12.38	57.46	100	0	P	H
													H
													H
		10640	47.38	-26.62	74	57.9	40.21	9.91	60.64	100	0	P	V
		15960	44.48	-29.52	74	51.89	37.67	12.38	57.46	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)
		5144.5	55.08	-18.92	74	48.44	31.79	5.99	31.14	120	69	P	H
		5075.48	41.2	-12.8	54	34.65	31.75	5.94	31.14	120	69	A	H
	*	5260	112.92	-	-	106.14	31.86	6.07	31.15	120	69	P	H
	*	5260	101.49	-	-	94.71	31.86	6.07	31.15	120	69	A	H
802.11n		5385.84	56.56	-17.44	74	49.63	31.93	6.15	31.15	120	69	P	H
HT20		5445.6	43.9	-10.1	54	36.89	31.97	6.19	31.15	120	69	A	H
CH 52		5143.82	53.56	-20.44	74	46.92	31.79	5.99	31.14	100	119	P	V
5260MHz		5072.42	40.57	-13.43	54	34.02	31.75	5.94	31.14	100	119	A	V
	*	5260	112.6	-	-	105.82	31.86	6.07	31.15	100	119	P	V
	*	5260	101.31	-	-	94.53	31.86	6.07	31.15	100	119	A	V
		5385.6	57.39	-16.61	74	50.46	31.93	6.15	31.15	100	119	P	V
		5445.6	43.7	-10.3	54	36.69	31.97	6.19	31.15	100	119	A	V
		5105.4	50.6	-23.4	74	44.03	31.76	5.95	31.14	108	70	P	H
		5114.58	41.02	-12.98	54	34.42	31.77	5.97	31.14	108	70	A	H
	*	5300	112.49	-	-	105.67	31.88	6.09	31.15	108	70	P	H
	*	5300	101.75	-	-	94.93	31.88	6.09	31.15	108	70	A	H
802.11n		5351.76	59.12	-14.88	74	52.24	31.91	6.12	31.15	108	70	P	H
HT20		5351.76	48.33	-5.67	54	41.45	31.91	6.12	31.15	108	70	A	H
CH 60		5125.8	51.19	-22.81	74	44.57	31.78	5.98	31.14	100	118	P	V
5300MHz		5115.94	40.78	-13.22	54	34.18	31.77	5.97	31.14	100	118	A	V
	*	5300	112.59	-	-	105.77	31.88	6.09	31.15	100	118	P	V
	*	5300	101.46	-	-	94.64	31.88	6.09	31.15	100	118	A	V
		5353.92	58.04	-15.96	74	51.16	31.91	6.12	31.15	100	118	P	V
		5351.76	48.39	-5.61	54	41.51	31.91	6.12	31.15	100	118	A	V

	*	5320	112.26	-	-	105.42	31.89	6.1	31.15	117	68	P	H
	*	5320	100.26	-	-	93.42	31.89	6.1	31.15	117	68	A	H
		5352.48	65.73	-8.27	74	58.85	31.91	6.12	31.15	117	68	P	H
		5350.24	49.32	-4.68	54	42.44	31.91	6.12	31.15	117	68	A	H
802.11n													H
HT20													H
CH 64	*	5320	111.43	-	-	104.59	31.89	6.1	31.15	100	119	P	V
5320MHz	*	5320	100.11	-	-	93.27	31.89	6.1	31.15	100	119	A	V
		5350.08	63.54	-10.46	74	56.66	31.91	6.12	31.15	100	119	P	V
		5350.24	49.45	-4.55	54	42.57	31.91	6.12	31.15	100	119	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)
		10520	50.61	-17.59	68.2	60.98	40.11	9.87	60.35	100	0	P	H
		15780	44.87	-29.13	74	52.21	38.05	12.32	57.71	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	53.58	-14.62	68.2	63.95	40.11	9.87	60.35	100	0	P	V
5260MHz		15780	44.77	-29.23	74	52.11	38.05	12.32	57.71	100	0	P	V
													V
													V
		10600	48.38	-25.62	74	58.84	40.18	9.9	60.54	100	0	P	H
		15900	46.17	-27.83	74	53.53	37.81	12.37	57.54	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	49.94	-24.06	74	60.4	40.18	9.9	60.54	100	0	P	V
5300MHz		15900	45.11	-28.89	74	52.47	37.81	12.37	57.54	100	0	P	V
													V
													V
		10640	48.04	-25.96	74	58.56	40.21	9.91	60.64	100	0	P	H
		15960	44.12	-29.88	74	51.53	37.67	12.38	57.46	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	48.51	-25.49	74	59.03	40.21	9.91	60.64	100	0	P	V
5320MHz		15960	44.71	-29.29	74	52.12	37.67	12.38	57.46	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		5140.76	49.52	-24.48	74	42.89	31.79	5.98	31.14	105	82	P	H
		5090.44	40.41	-13.59	54	33.84	31.76	5.95	31.14	105	82	A	H
	*	5270	107.99	-	-	101.2	31.86	6.08	31.15	105	82	P	H
	*	5270	97.58	-	-	90.79	31.86	6.08	31.15	105	82	A	H
		5352	58.23	-15.77	74	51.35	31.91	6.12	31.15	105	82	P	H
		5351.04	45.61	-8.39	54	38.73	31.91	6.12	31.15	105	82	A	H
		5134.98	50.85	-23.15	74	44.23	31.78	5.98	31.14	100	123	P	V
		5093.16	40.17	-13.83	54	33.6	31.76	5.95	31.14	100	123	A	V
	*	5270	108.43	-	-	101.64	31.86	6.08	31.15	100	123	P	V
	*	5270	97.41	-	-	90.62	31.86	6.08	31.15	100	123	A	V
		5351.28	59.51	-14.49	74	52.63	31.91	6.12	31.15	100	123	P	V
		5373.84	45.48	-8.52	54	38.57	31.92	6.14	31.15	100	123	A	V
802.11n HT40 CH 62 5310MHz		5128.18	47.79	-26.21	74	41.17	31.78	5.98	31.14	104	87	P	H
		5140.08	38.17	-15.83	54	31.54	31.79	5.98	31.14	104	87	A	H
	*	5310	98.15	-	-	91.31	31.89	6.1	31.15	104	87	P	H
	*	5310	87.4	-	-	80.56	31.89	6.1	31.15	104	87	A	H
		5358.24	52.43	-21.57	74	45.53	31.91	6.14	31.15	104	87	P	H
		5358	48.5	-5.5	54	41.62	31.91	6.12	31.15	104	87	A	H
		5090.1	48.24	-25.76	74	41.67	31.76	5.95	31.14	100	116	P	V
		5133.96	38.08	-15.92	54	31.46	31.78	5.98	31.14	100	116	A	V
	*	5310	98.58	-	-	91.74	31.89	6.1	31.15	100	116	P	V
	*	5310	87.91	-	-	81.07	31.89	6.1	31.15	100	116	A	V
		5358	53.22	-20.78	74	46.34	31.91	6.12	31.15	100	116	P	V
		5358	49.09	-4.91	54	42.21	31.91	6.12	31.15	100	116	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)
		10540	47.94	-26.06	74	58.33	40.13	9.88	60.4	100	0	P	H
		15810	44.43	-29.57	74	51.78	37.98	12.34	57.67	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	49.81	-24.19	74	60.2	40.13	9.88	60.4	100	0	P	V
5270MHz		15810	44.99	-29.01	74	52.34	37.98	12.34	57.67	100	0	P	V
													V
													V
		10620	47.49	-26.51	74	57.98	40.2	9.9	60.59	100	0	P	H
		15930	44.25	-29.75	74	51.62	37.74	12.39	57.5	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	47.17	-26.83	74	57.66	40.2	9.9	60.59	100	0	P	V
5310MHz		15930	44.62	-29.38	74	51.99	37.74	12.39	57.5	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5468.08	63.66	-10.34	74	56.6	31.98	6.23	31.15	109	69	P	H
		5447.6	46.69	-7.31	54	39.68	31.97	6.19	31.15	109	69	A	H
	*	5500	111.48	-	-	104.39	32	6.24	31.15	109	69	P	H
	*	5500	99.64	-	-	92.55	32	6.24	31.15	109	69	A	H
													H
													H
		5468.72	60.87	-13.13	74	53.81	31.98	6.23	31.15	100	116	P	V
		5447.92	46.55	-7.45	54	39.54	31.97	6.19	31.15	100	116	P	V
	*	5500	110.7	-	-	103.61	32	6.24	31.15	100	116	P	V
	*	5500	99.14	-	-	92.05	32	6.24	31.15	100	116	A	V
													V
													V
802.11a CH 116 5580MHz		5395.6	51.77	-22.23	74	44.82	31.94	6.16	31.15	119	70	P	H
		5394.16	41.99	-12.01	54	35.05	31.93	6.16	31.15	119	70	A	H
	*	5580	112.22	-	-	105	32.1	6.32	31.2	119	70	P	H
	*	5580	100.62	-	-	93.4	32.1	6.32	31.2	119	70	A	H
		5751.14	51.78	-22.22	74	44.34	32.34	6.37	31.27	119	70	P	H
		5764.685	44.68	-9.32	54	37.23	32.36	6.37	31.28	119	70	P	H
		5465.92	51.83	-22.17	74	44.79	31.98	6.21	31.15	100	119	P	V
		5392.24	41.99	-12.01	54	35.06	31.93	6.15	31.15	100	119	A	V
	*	5580	111.17	-	-	103.95	32.1	6.32	31.2	100	119	P	V
	*	5580	100	-	-	92.78	32.1	6.32	31.2	100	119	A	V
		5742.32	51.85	-22.15	74	44.41	32.34	6.37	31.27	100	119	P	V
		5765	44.57	-9.43	54	37.12	32.36	6.37	31.28	100	119	P	V

802.11a CH 140 5700MHz	*	5700	112.57	-	-	105.19	32.27	6.36	31.25	110	71	P	H
	*	5700	100.95	-	-	93.57	32.27	6.36	31.25	110	71	A	H
		5726.68	66.3	-7.7	74	58.88	32.31	6.37	31.26	110	71	P	H
		5725	49.39	-4.61	54	41.97	32.31	6.37	31.26	110	71	A	H
													H
													H
	*	5700	110.63	-	-	103.25	32.27	6.36	31.25	100	118	P	V
	*	5700	99.31	-	-	91.93	32.27	6.36	31.25	100	118	A	V
		5726.12	64.79	-9.21	74	57.37	32.31	6.37	31.26	100	118	P	V
		5725.16	48.5	-5.5	54	41.08	32.31	6.37	31.26	100	118	A	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	47.26	-26.74	74	58.18	40.5	10.08	61.5	100	0	P	H
		16500	44.67	-29.33	74	49.88	39.6	12.49	57.3	100	0	P	H
													H
													H
		11000	47.41	-26.59	74	58.33	40.5	10.08	61.5	100	0	P	V
		16500	43.96	-30.04	74	49.17	39.6	12.49	57.3	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	48.69	-25.31	74	59.69	40.37	10.16	61.53	100	0	P	H
		16740	46.82	-27.18	74	50.99	40.13	12.52	56.82	100	0	P	H
													H
													H
		11160	48.94	-25.06	74	59.94	40.37	10.16	61.53	100	0	P	V
		16740	45.99	-28.01	74	50.16	40.13	12.52	56.82	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	46.3	-27.7	74	57.41	40.18	10.29	61.58	100	0	P	H
		17100	46.28	-27.72	74	48.66	41.06	12.64	56.08	100	0	P	H
													H
													H
		11400	46.18	-27.82	74	57.29	40.18	10.29	61.58	100	0	P	V
		17100	47.74	-26.26	74	50.12	41.06	12.64	56.08	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)
		5469.52	66.27	-7.73	74	59.21	31.98	6.23	31.15	121	97	P	H
		5469.68	51.42	-2.58	54	44.36	31.98	6.23	31.15	121	97	A	H
	*	5500	111.37	-	-	104.28	32	6.24	31.15	121	97	P	H
	*	5500	100.48	-	-	93.39	32	6.24	31.15	121	97	A	H
802.11n													H
HT20													H
CH 100		5467.76	65.48	-8.52	74	58.42	31.98	6.23	31.15	100	121	P	V
5500MHz		5470	51.16	-2.84	54	44.1	31.98	6.23	31.15	100	121	A	V
	*	5500	111.24	-	-	104.15	32	6.24	31.15	100	121	P	V
	*	5500	99.88	-	-	92.79	32	6.24	31.15	100	121	A	V
													V
													V
		5463.76	55.5	-18.5	74	48.46	31.98	6.21	31.15	101	97	P	H
		5391.76	43.63	-10.37	54	36.7	31.93	6.15	31.15	101	97	A	H
	*	5580	114.96	-	-	107.74	32.1	6.32	31.2	101	97	P	H
	*	5580	103.97	-	-	96.75	32.1	6.32	31.2	101	97	A	H
802.11n		5752.715	53.25	-20.75	74	45.79	32.36	6.37	31.27	101	97	P	H
HT20		5764.685	43.54	-10.46	54	36.09	32.36	6.37	31.28	101	97	A	H
CH 116		5465.68	56.21	-17.79	74	49.17	31.98	6.21	31.15	103	119	P	V
5580MHz		5393.68	43.79	-10.21	54	36.86	31.93	6.15	31.15	103	119	A	V
	*	5580	114.44	-	-	107.22	32.1	6.32	31.2	103	119	P	V
	*	5580	103.57	-	-	96.35	32.1	6.32	31.2	103	119	A	V
		5764.685	56.84	-17.16	74	49.39	32.36	6.37	31.28	103	119	P	V
		5764.37	43.92	-10.08	54	36.47	32.36	6.37	31.28	103	119	A	V

	*	5700	109.6	-	-	102.22	32.27	6.36	31.25	105	77	P	H
	*	5700	98.32	-	-	90.94	32.27	6.36	31.25	105	77	A	H
		5726.92	63.62	-10.38	74	56.2	32.31	6.37	31.26	105	77	P	H
		5751.8	46.4	-7.6	54	38.94	32.36	6.37	31.27	105	77	A	H
802.11n													H
HT20													H
CH 140	*	5700	107.85	-	-	100.47	32.27	6.36	31.25	100	113	P	V
5700MHz	*	5700	96.47	-	-	89.09	32.27	6.36	31.25	100	113	A	V
		5726.84	62.29	-11.71	74	54.87	32.31	6.37	31.26	100	113	P	V
		5751.72	45.05	-8.95	54	37.59	32.36	6.37	31.27	100	113	A	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)
		11000	47.33	-26.67	74	58.25	40.5	10.08	61.5	100	0	P	H
		16500	44.28	-29.72	74	49.49	39.6	12.49	57.3	100	0	P	H
802.11n													H
HT20													H
CH 100		11000	47.97	-26.03	74	58.89	40.5	10.08	61.5	100	0	P	V
5500MHz		16500	44.76	-29.24	74	49.97	39.6	12.49	57.3	100	0	P	V
													V
													V
		11160	47.47	-26.53	74	58.47	40.37	10.16	61.53	100	0	P	H
		16740	45.83	-28.17	74	50	40.13	12.52	56.82	100	0	P	H
802.11n													H
HT20													H
CH 116		11160	47.85	-26.15	74	58.85	40.37	10.16	61.53	100	0	P	V
5580MHz		16740	45.9	-28.1	74	50.07	40.13	12.52	56.82	100	0	P	V
													V
													V
		11400	46.17	-27.83	74	57.28	40.18	10.29	61.58	100	0	P	H
		17100	46.68	-27.32	74	49.06	41.06	12.64	56.08	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	46.44	-27.56	74	57.55	40.18	10.29	61.58	100	0	P	V
5700MHz		17100	46.72	-27.28	74	49.1	41.06	12.64	56.08	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)
		5456.56	59.09	-14.91	74	52.06	31.97	6.21	31.15	133	97	P	H
		5466.64	65.7	-2.5	68.2	58.64	31.98	6.23	31.15	133	97	P	H
		5459.92	45.12	-8.88	54	38.09	31.97	6.21	31.15	133	97	A	H
	*	5510	105.89	-	-	98.79	32	6.26	31.16	133	97	P	H
802.11n	*	5510	95.14	-	-	88.04	32	6.26	31.16	133	97	A	H
HT40		5732.555	49.09	-19.11	68.2	41.68	32.31	6.37	31.27	133	97	P	H
CH 102		5451.76	58.05	-15.95	74	51.02	31.97	6.21	31.15	100	114	P	V
5510MHz		5467.36	65.48	-2.72	68.2	58.42	31.98	6.23	31.15	100	114	P	V
		5459.2	45.1	-8.9	54	38.07	31.97	6.21	31.15	100	114	A	V
	*	5510	105.52	-	-	98.42	32	6.26	31.16	100	114	P	V
	*	5510	94.89	-	-	87.79	32	6.26	31.16	100	114	A	V
		5740.115	49.86	-18.34	68.2	42.42	32.34	6.37	31.27	100	114	P	V
		5438.56	57.17	-16.83	74	50.17	31.96	6.19	31.15	100	76	P	H
		5466.88	59.27	-8.93	68.2	52.21	31.98	6.23	31.15	100	76	P	H
		5447.44	47.04	-6.96	54	40.03	31.97	6.19	31.15	100	76	A	H
	*	5550	109.89	-	-	102.7	32.07	6.29	31.17	100	76	P	H
802.11n	*	5550	89.37	-	-	82.18	32.07	6.29	31.17	100	76	A	H
HT40		5735.705	54.38	-13.82	68.2	46.94	32.34	6.37	31.27	100	76	P	H
CH 110		5445.76	56.92	-17.08	74	49.91	31.97	6.19	31.15	101	123	P	V
5550MHz		5468.08	60.76	-7.44	68.2	53.7	31.98	6.23	31.15	101	123	P	V
		5446.72	46.7	-7.3	54	39.69	31.97	6.19	31.15	101	123	A	V
	*	5550	109.52	-	-	102.33	32.07	6.29	31.17	101	123	P	V
	*	5550	99.18	-	-	91.99	32.07	6.29	31.17	101	123	A	V
		5734.76	52.32	-15.88	68.2	44.88	32.34	6.37	31.27	101	123	P	V

		5436.1	50.58	-23.42	74	43.58	31.96	6.19	31.15	100	75	P	H
		5464.8	50.9	-17.3	68.2	43.86	31.98	6.21	31.15	100	75	P	H
		5439.25	39.84	-14.16	54	32.84	31.96	6.19	31.15	100	75	A	H
	*	5670	109.27	-	-	101.91	32.24	6.35	31.23	100	75	P	H
802.11n	*	5670	98.6	-	-	91.24	32.24	6.35	31.23	100	75	A	H
HT40		5725.45	62.13	-6.07	68.2	54.71	32.31	6.37	31.26	100	75	P	H
CH 134		5446.95	49.55	-24.45	74	42.54	31.97	6.19	31.15	100	114	P	V
5670MHz		5467.6	50.7	-17.5	68.2	43.64	31.98	6.23	31.15	100	114	P	V
		5459.9	39.48	-14.52	54	32.45	31.97	6.21	31.15	100	114	A	V
	*	5670	108.42	-	-	101.06	32.24	6.35	31.23	100	114	P	V
	*	5670	97.59	-	-	90.23	32.24	6.35	31.23	100	114	A	V
		5730.35	61.52	-6.68	68.2	54.11	32.31	6.37	31.27	100	114	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)
		11020	47.08	-26.92	74	57.99	40.49	10.1	61.5	100	0	P	H
		16530	44.85	-23.35	68.2	49.92	39.68	12.49	57.24	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	47.02	-26.98	74	57.93	40.49	10.1	61.5	100	0	P	V
5510MHz		16530	44.81	-23.39	68.2	49.88	39.68	12.49	57.24	100	0	P	V
													V
													V
		11100	47.53	-26.47	74	58.49	40.42	10.14	61.52	100	0	P	H
		16650	44.57	-23.63	68.2	49.12	39.94	12.51	57	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	47.8	-26.2	74	58.76	40.42	10.14	61.52	100	0	P	V
5550MHz		16650	45.11	-23.09	68.2	49.66	39.94	12.51	57	100	0	P	V
													V
													V
		11340	46.81	-27.19	74	57.89	40.23	10.26	61.57	100	0	P	H
		17010	45.92	-22.28	68.2	48.88	40.76	12.56	56.28	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	48	-26	74	59.08	40.23	10.26	61.57	100	0	P	V
5670MHz		17010	46.97	-21.23	68.2	49.93	40.76	12.56	56.28	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

Emission below 1GHz

WIFI 802.11n HT40 (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 HT40 LF		31.08	26.33	-13.67	40	30.47	25.62	0.44	30.2	-	-	P	H
		159.33	31.8	-11.7	43.5	43.81	17.17	1.18	30.36	-	-	P	H
		200.37	29.33	-14.17	43.5	42.26	16.12	1.27	30.32	-	-	P	H
		300	27.92	-18.08	46	36.87	19.7	1.49	30.14	-	-	P	H
		746.6	39.69	-6.31	46	39.15	27.64	2.31	29.41	100	0	P	H
		801.2	37.8	-8.2	46	36.56	28.11	2.42	29.29	-	-	P	H
													H
													H
													H
													H
													H
													H
		33.24	34.51	-5.49	40	39.83	24.46	0.45	30.23	100	0	P	V
		87.51	28.36	-11.64	40	43.38	14.6	0.82	30.44	-	-	P	V
		157.17	23.2	-20.3	43.5	35.09	17.31	1.17	30.37	-	-	P	V
		416.9	24.35	-21.65	46	29.82	22.78	1.7	29.95	-	-	P	V
		662.6	29.2	-16.8	46	30.37	26.23	2.16	29.56	-	-	P	V
		801.2	33.01	-12.99	46	31.77	28.11	2.42	29.29	-	-	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

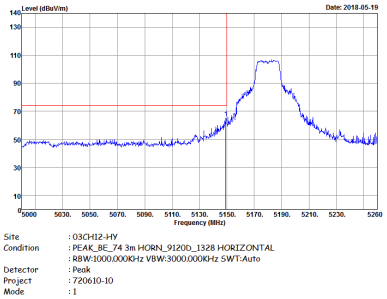
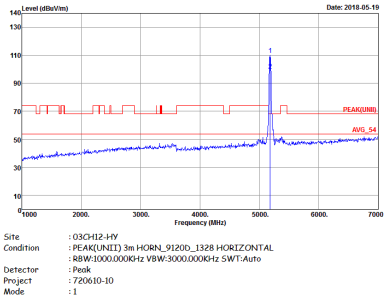
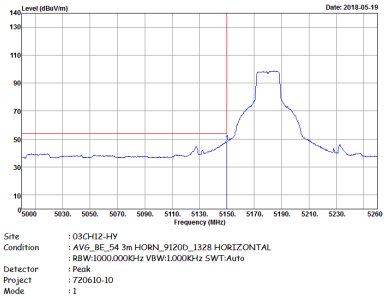
Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	**Temperature :**	23~25°C
		Relative Humidity :	61~65%

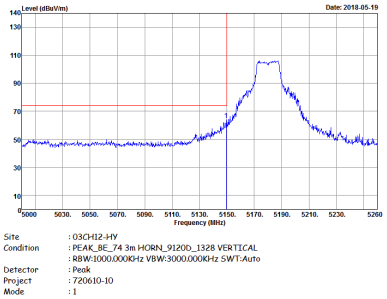
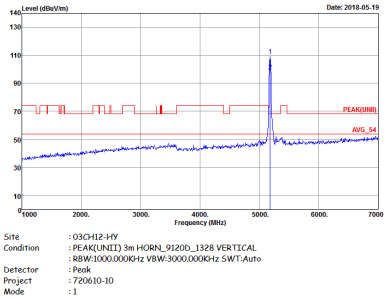
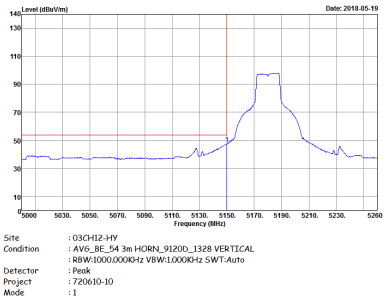
Note symbol

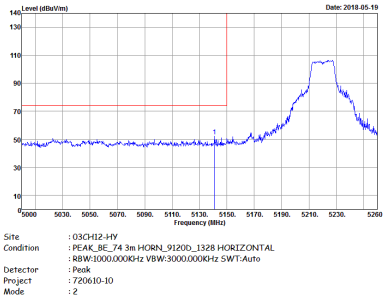
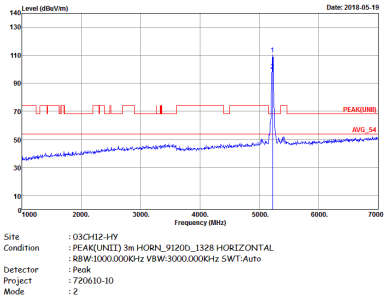
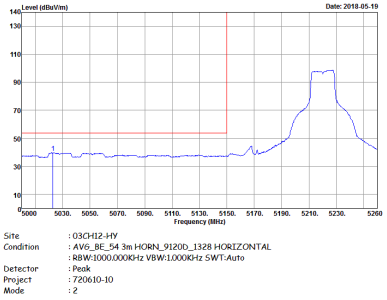
-L	**Low channel location**
-R	**High channel location**

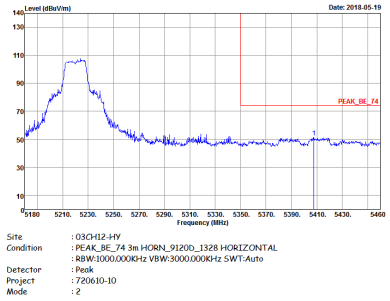
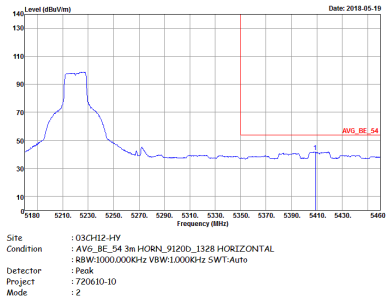
Band 1 - 5150~5250MHz

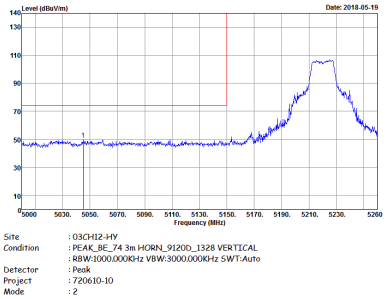
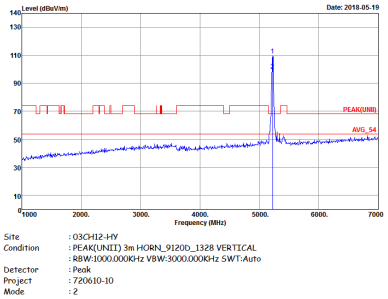
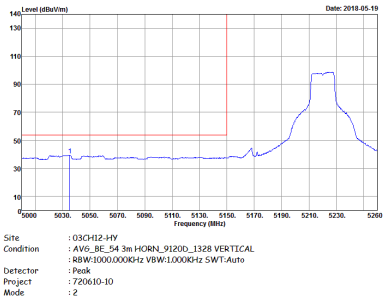
WIFI 802.11a (Band Edge @ 3m)

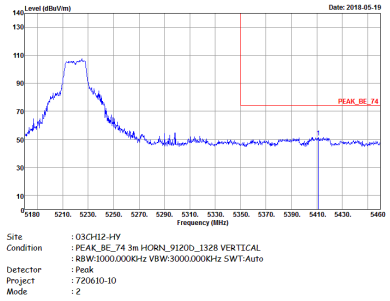
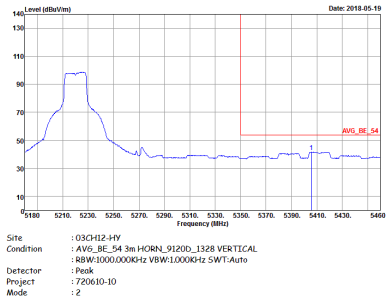
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

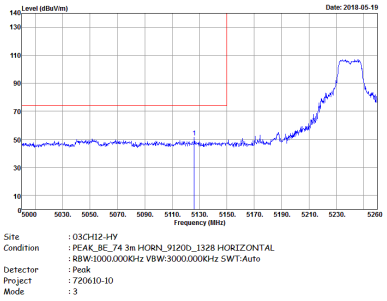
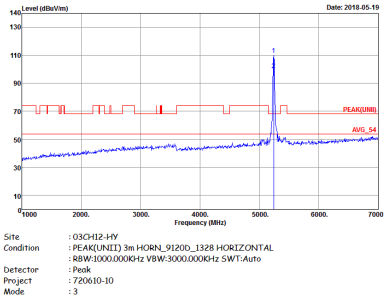
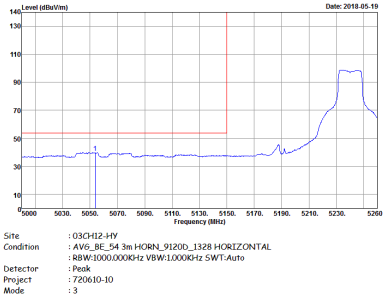
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

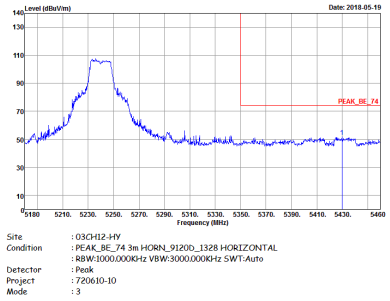
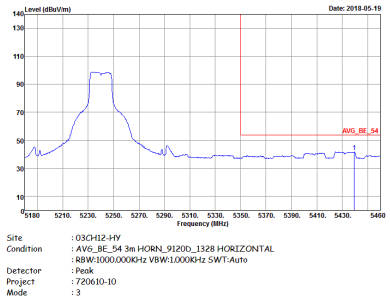
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

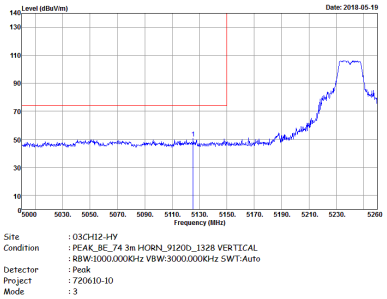
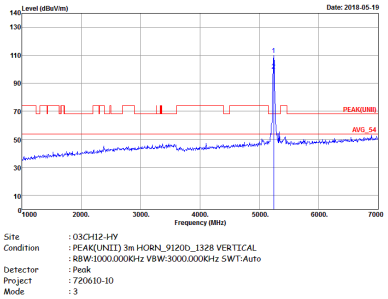
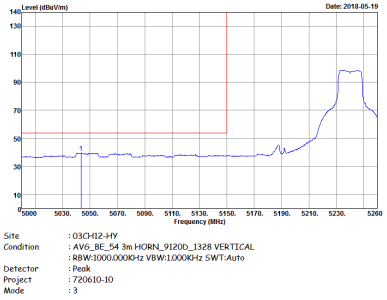
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

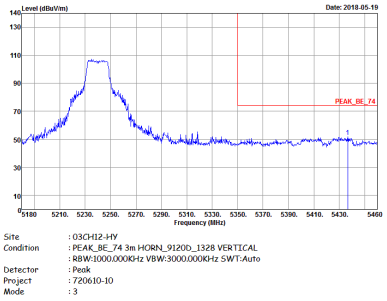
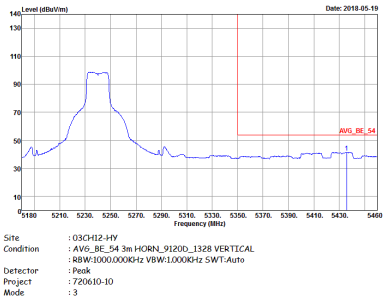
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

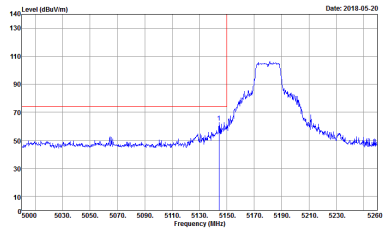
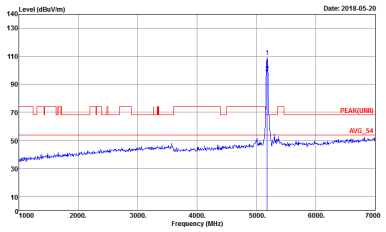
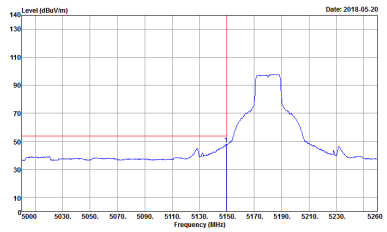
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

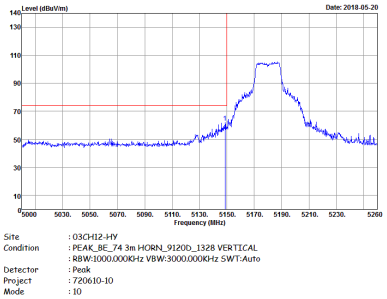
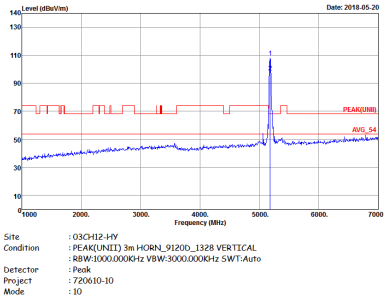
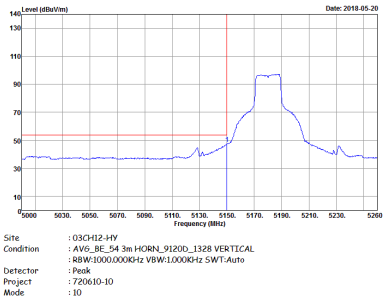
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

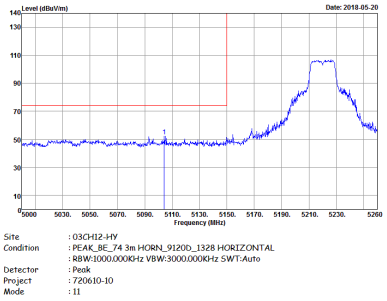
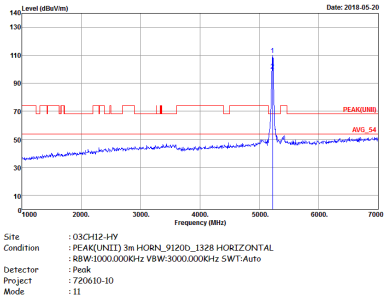
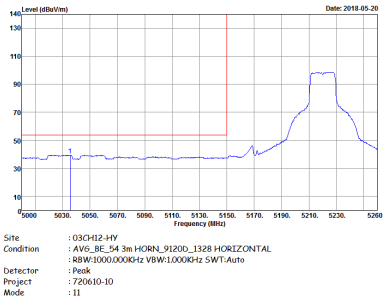
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

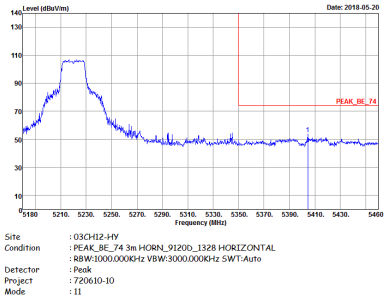
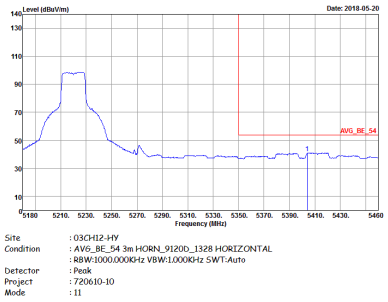
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

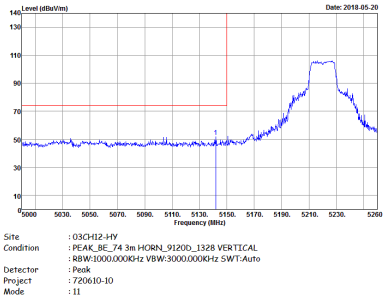
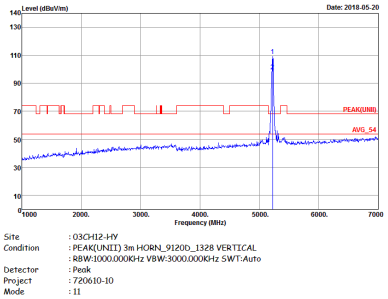
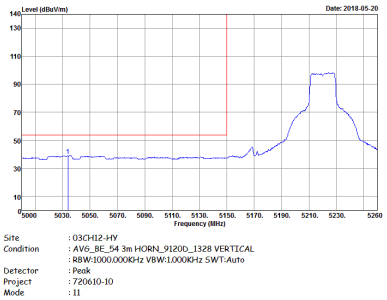
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

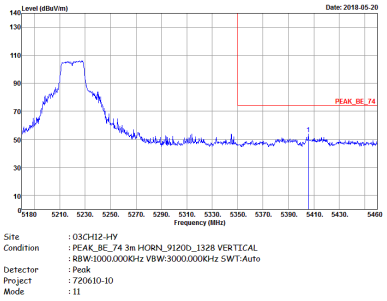
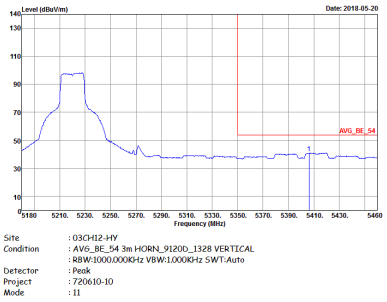
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_8E_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10
Avg.	 Site : 03CH12-HY Condition : AV6_8E_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10	Left blank

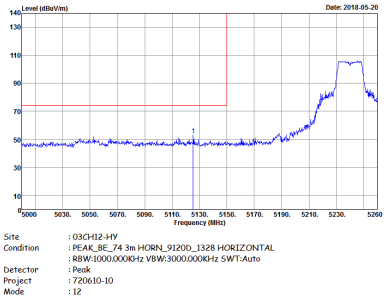
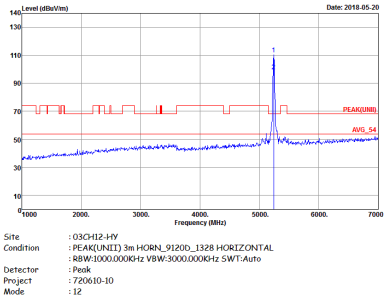
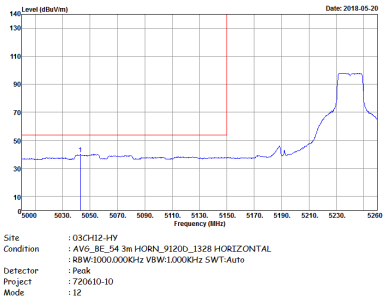
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

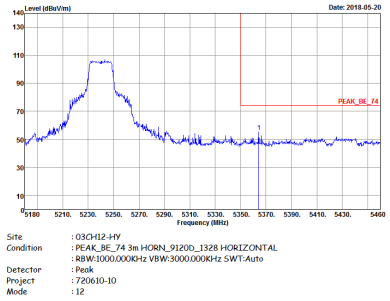
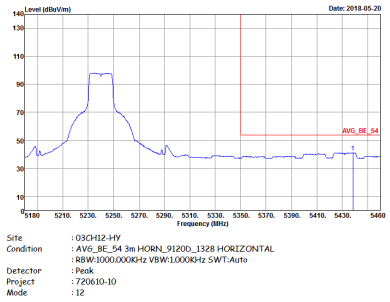
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

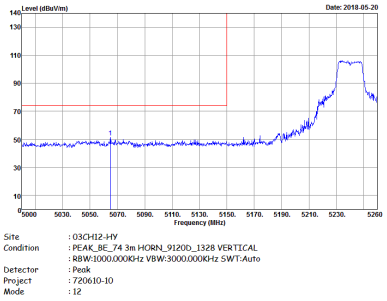
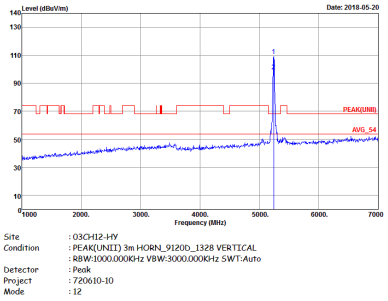
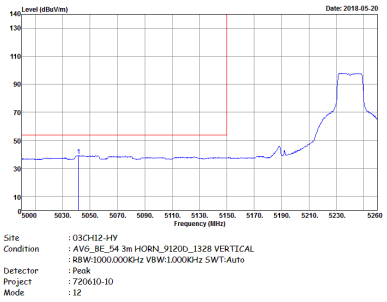
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

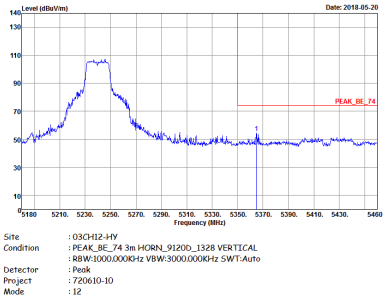
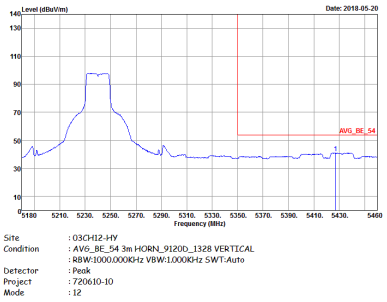
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

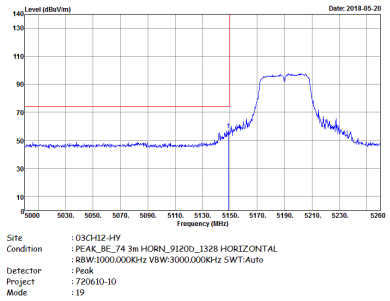
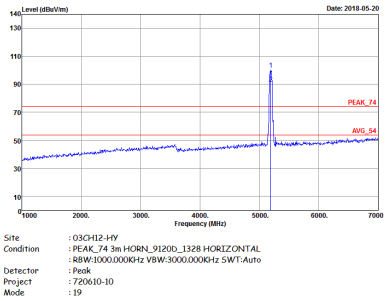
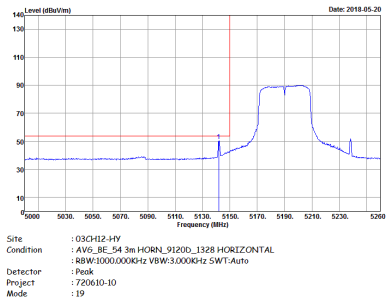
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

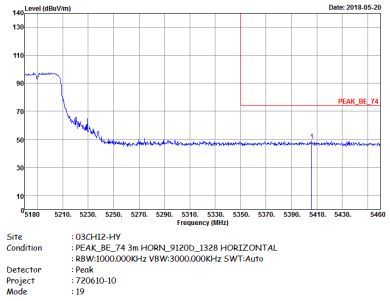
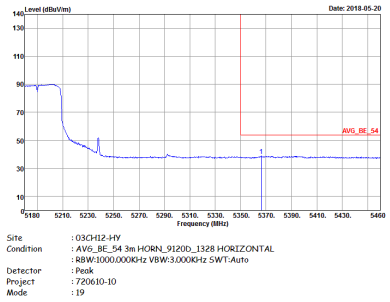
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

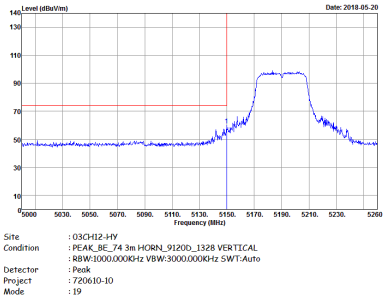
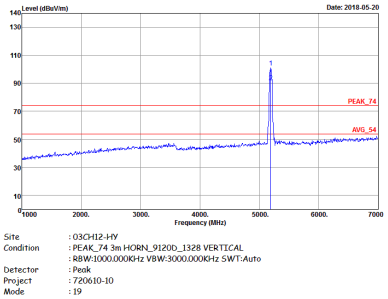
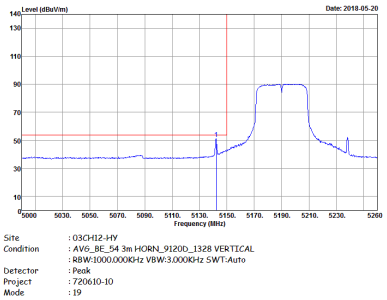
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

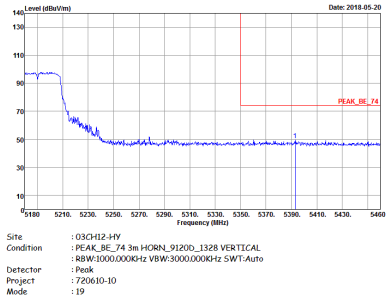
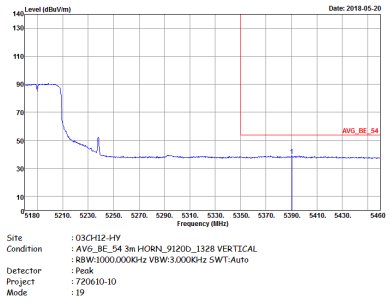
Band 1 5150~5250MHz

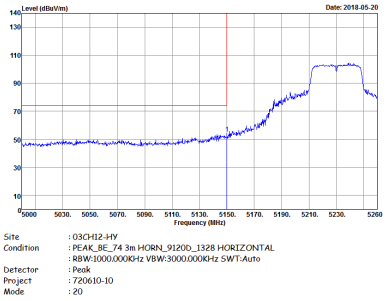
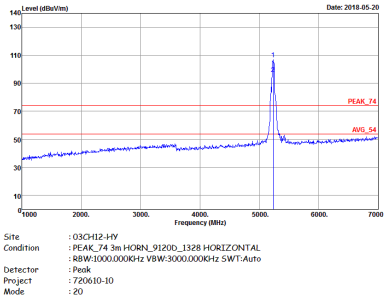
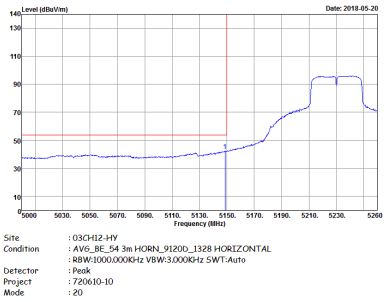
WIFI 802.11n HT40 (Band Edge @ 3m)

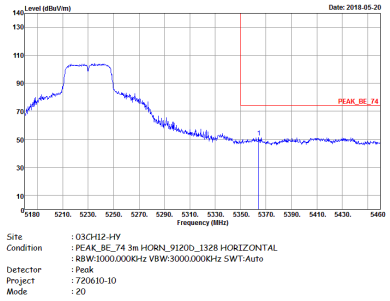
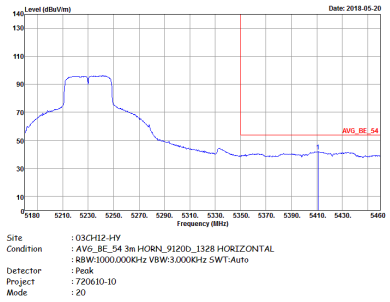
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

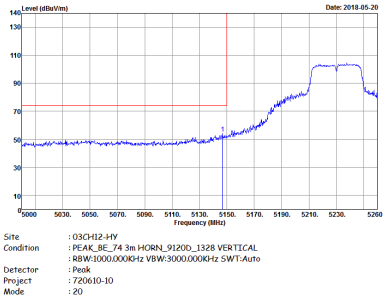
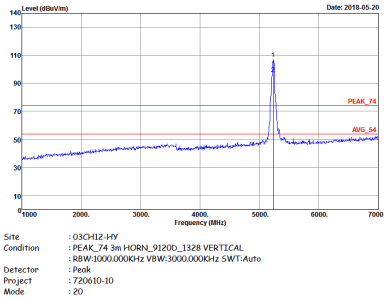
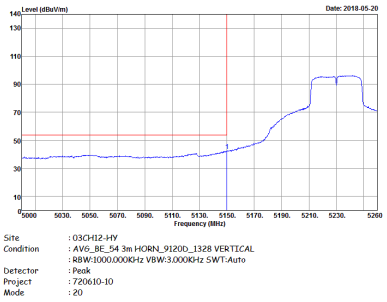
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

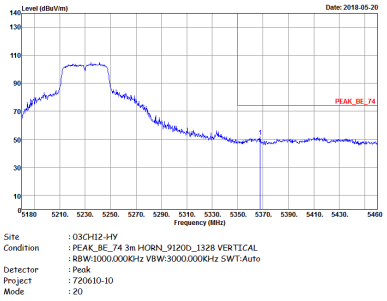
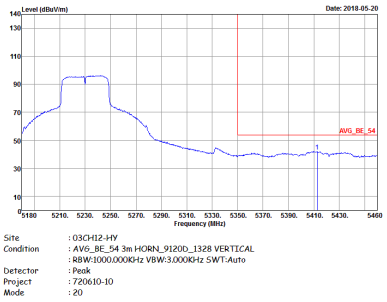
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

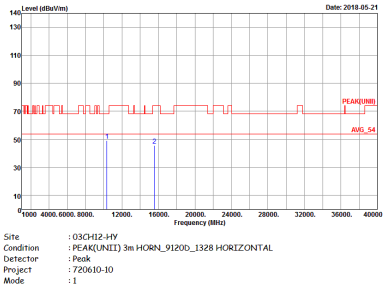
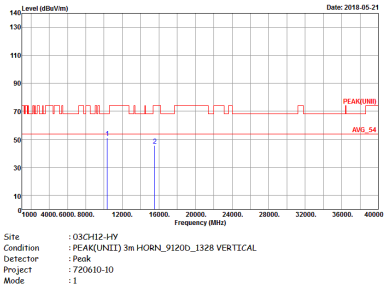
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

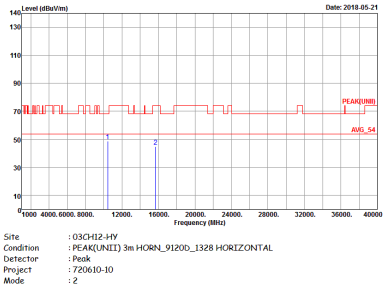
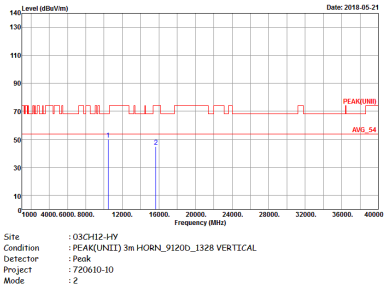
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

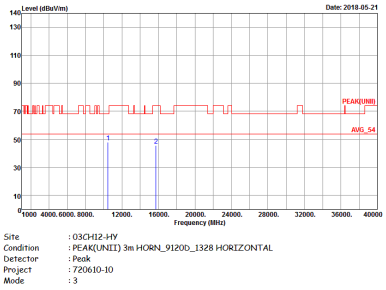
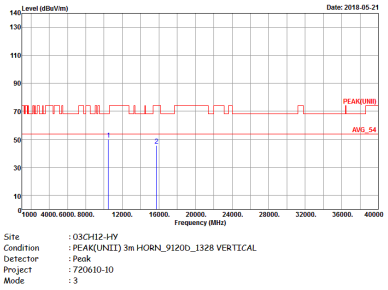
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

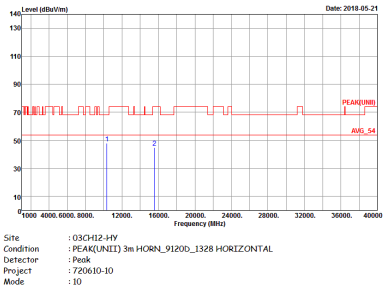
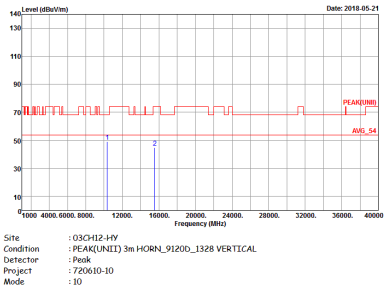
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

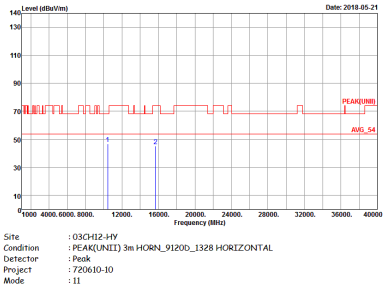
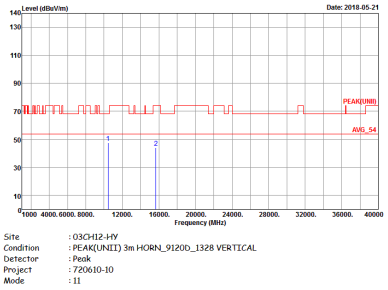
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

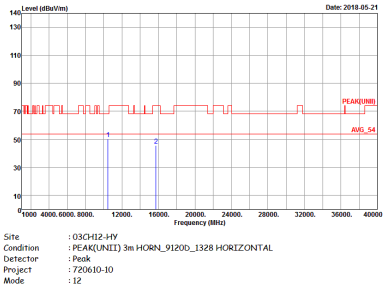
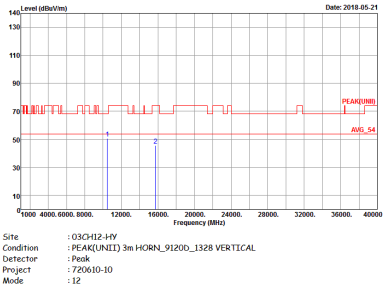
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

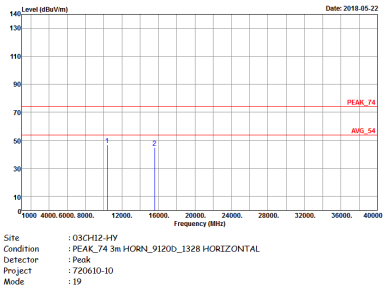
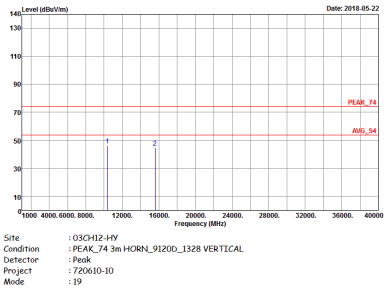
WIFI 802.11n HT20 (Harmonic @ 3m)

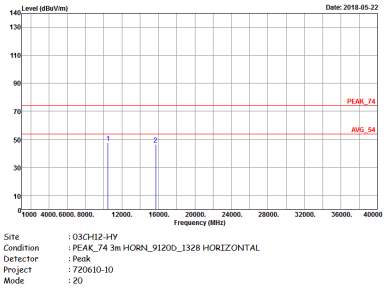
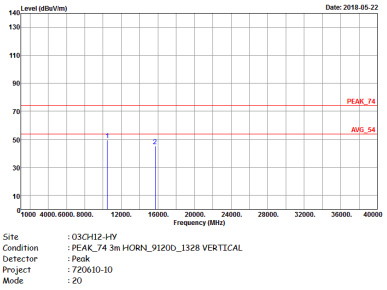
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.		

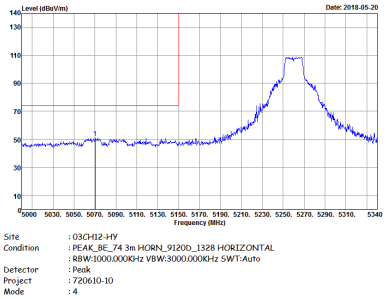
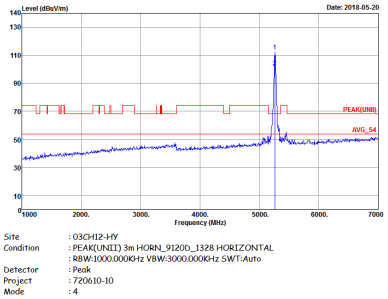
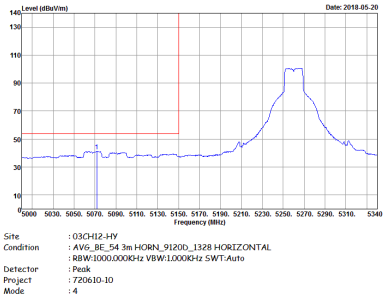
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

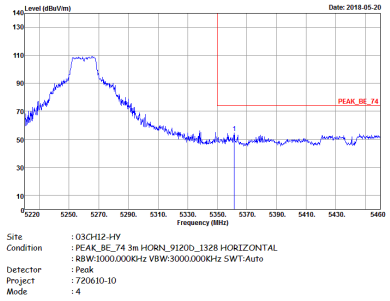
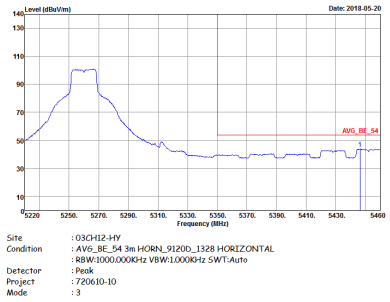
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1	Horizontal	Vertical
Peak Avg.		

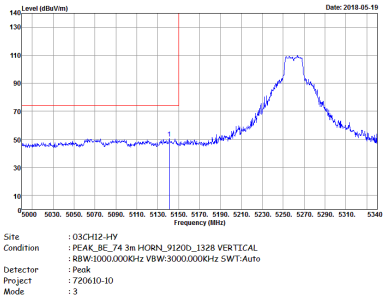
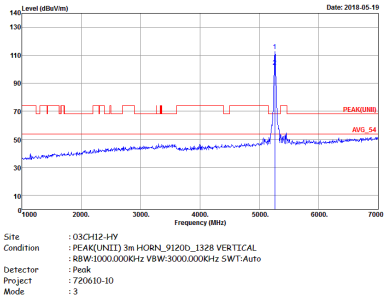
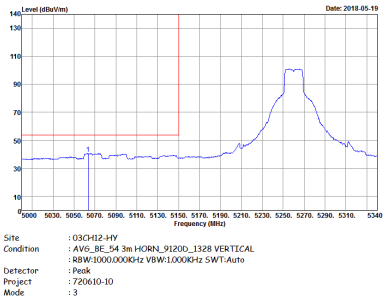
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1	Horizontal	Vertical
Peak Avg.		

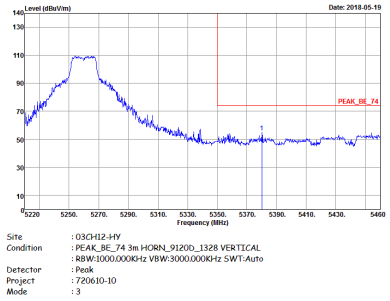
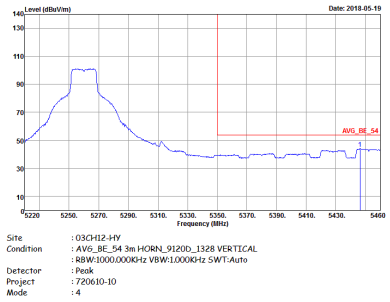
Band 2 - 5250~5350MHz

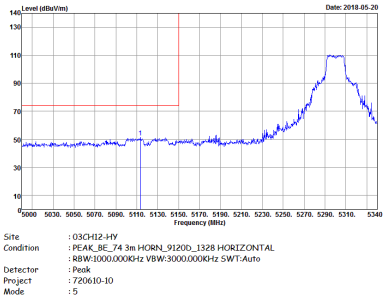
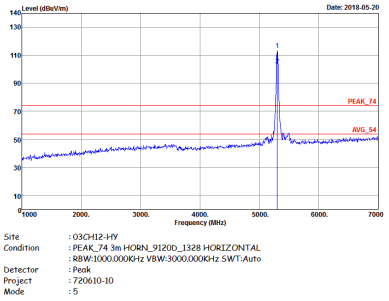
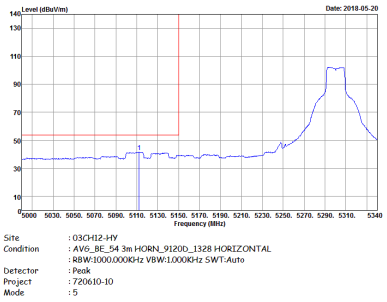
WIFI 802.11a (Band Edge @ 3m)

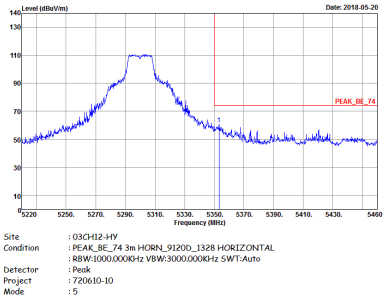
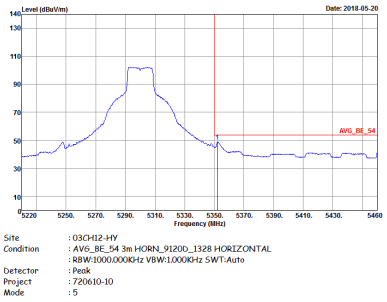
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

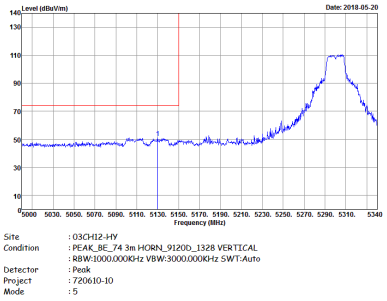
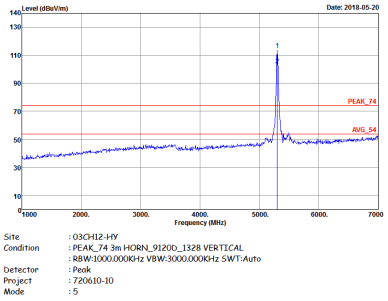
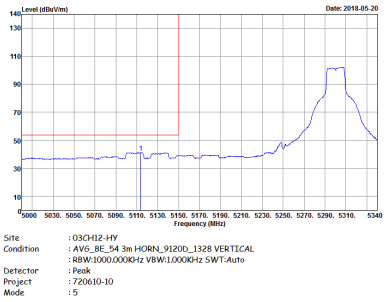
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

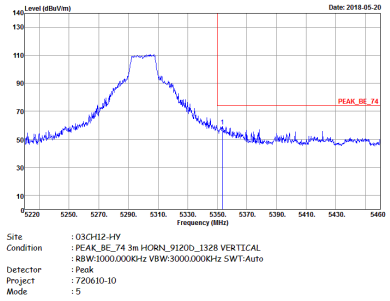
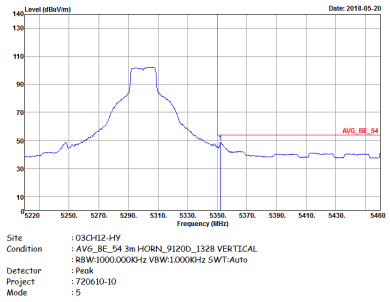
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

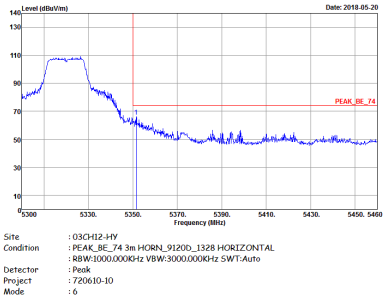
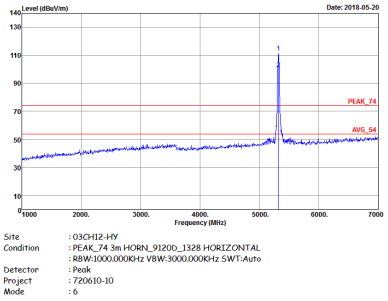
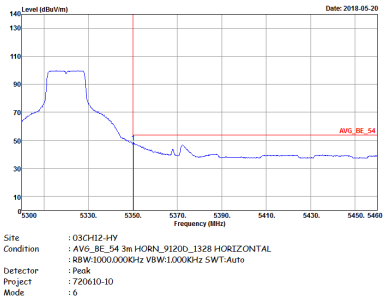
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

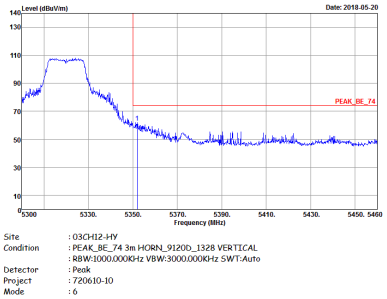
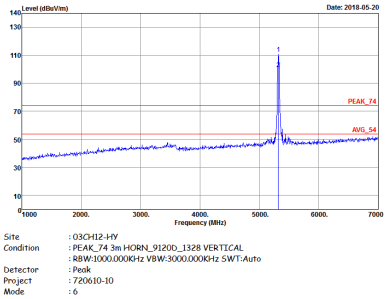
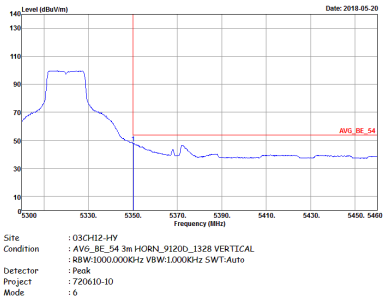
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

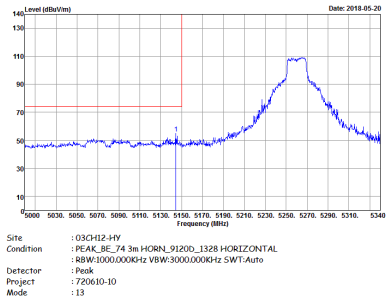
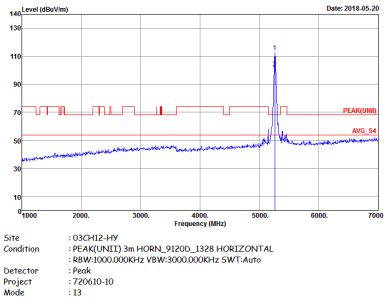
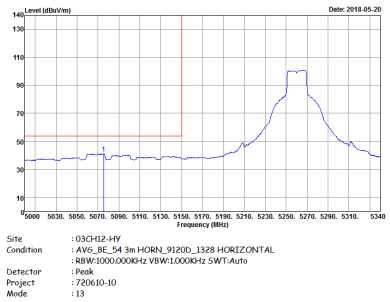
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

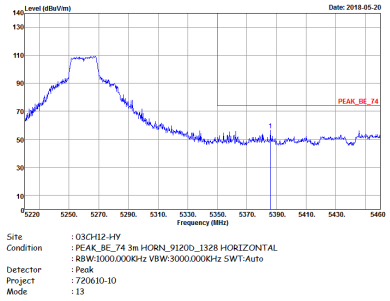
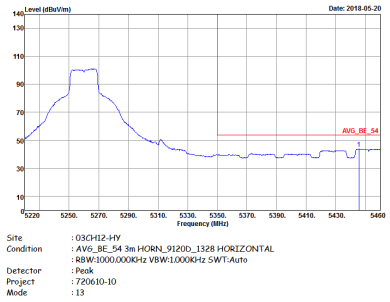
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

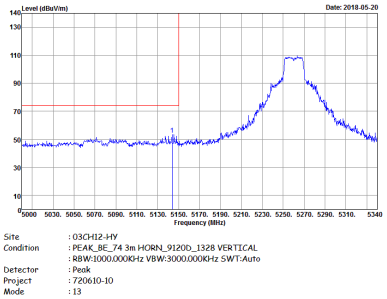
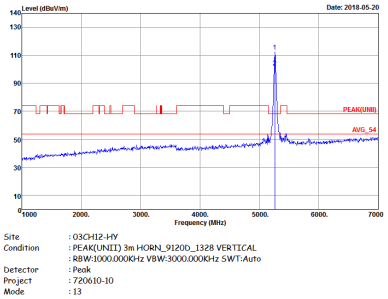
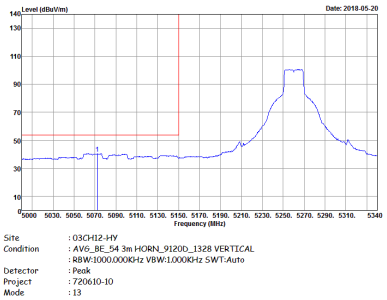
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

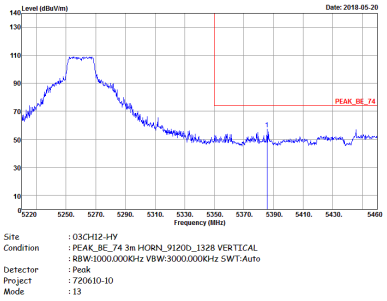
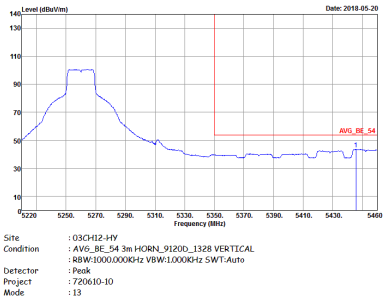
Band 2 5250~5350MHz

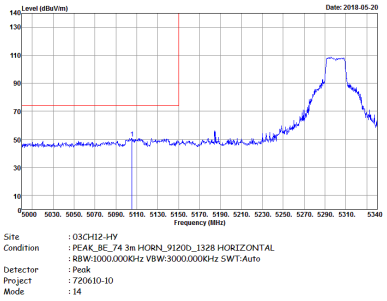
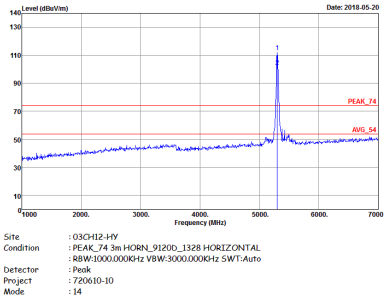
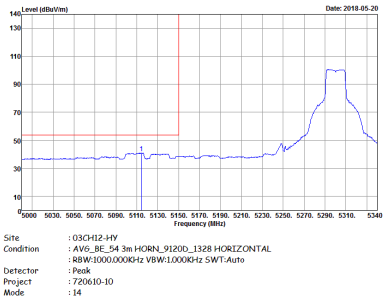
WIFI 802.11n HT20 (Band Edge @ 3m)

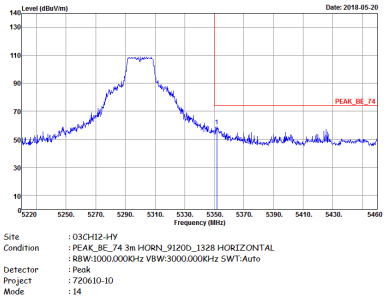
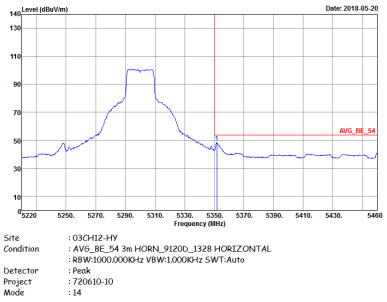
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

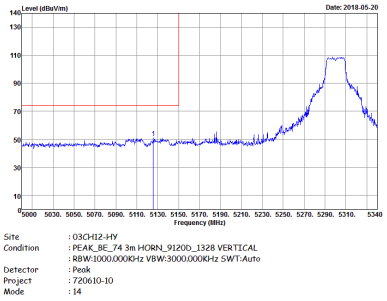
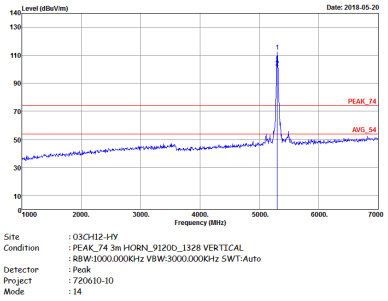
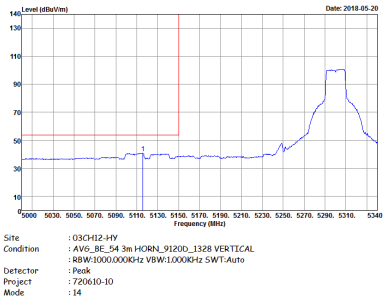
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

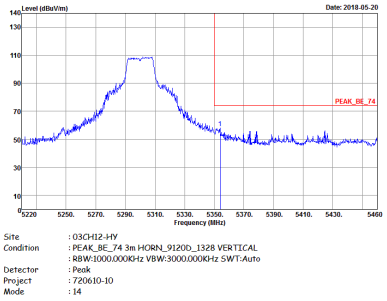
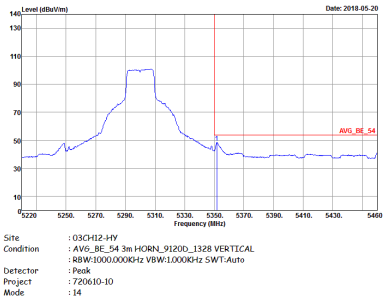
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

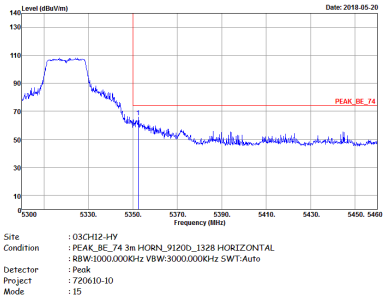
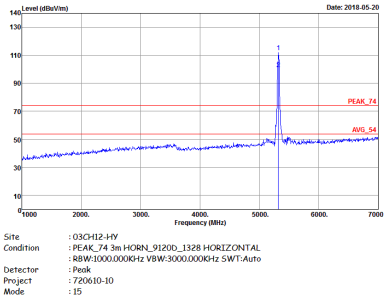
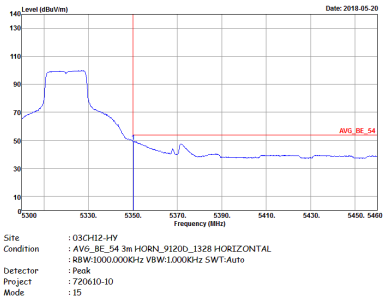
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

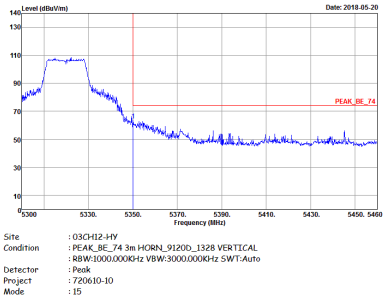
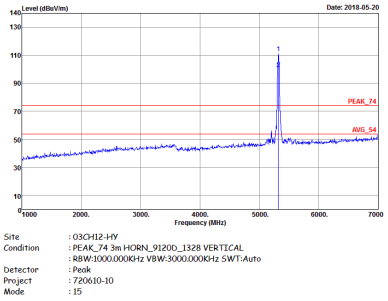
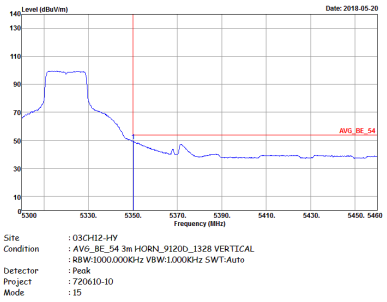
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

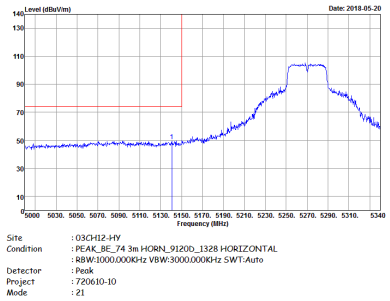
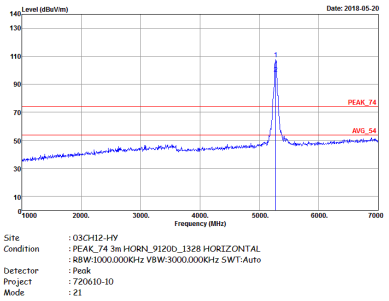
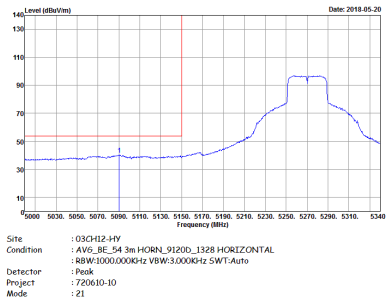
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

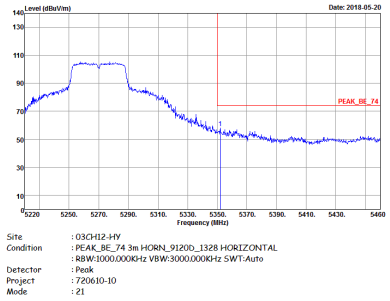
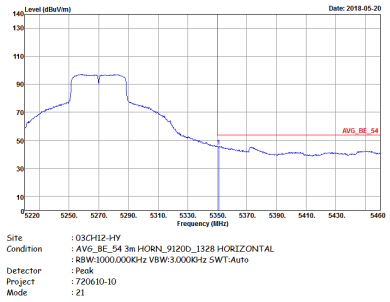
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

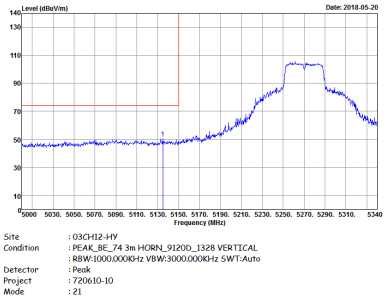
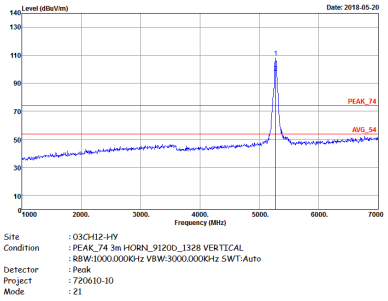
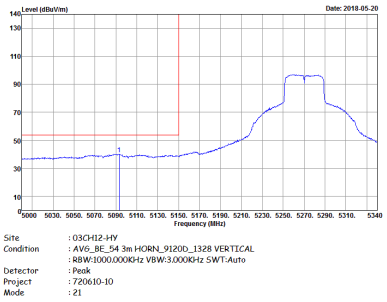
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

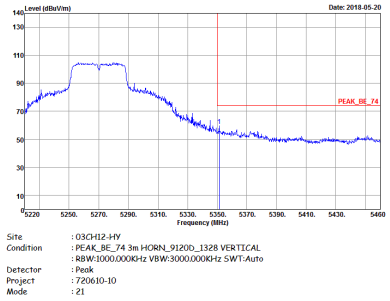
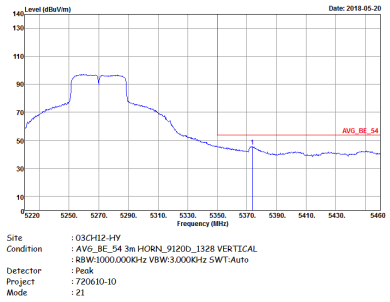
Band 2 5250~5350MHz

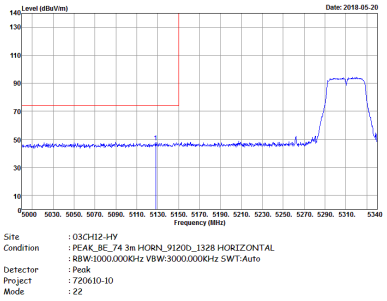
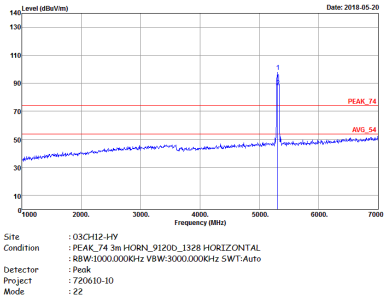
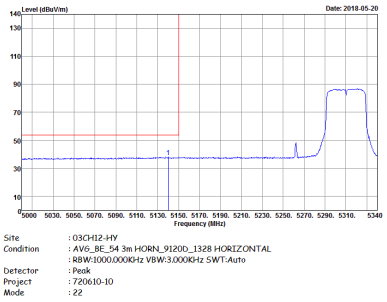
WIFI 802.11n HT40 (Band Edge @ 3m)

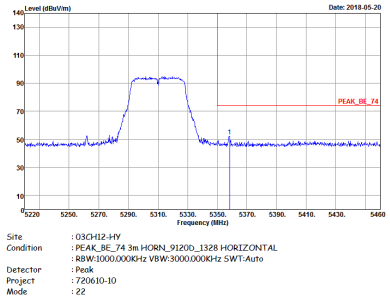
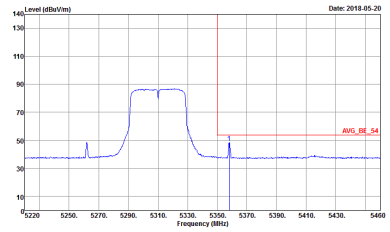
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

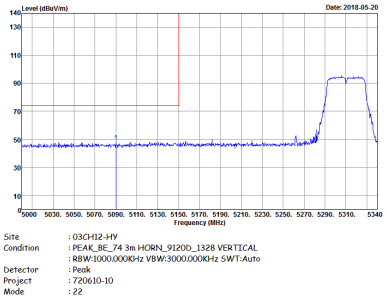
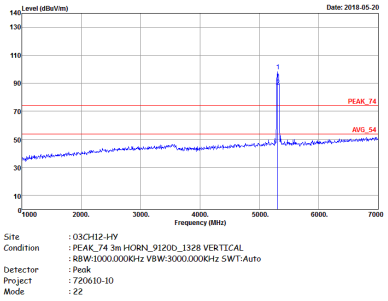
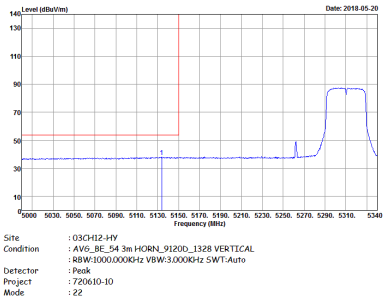
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

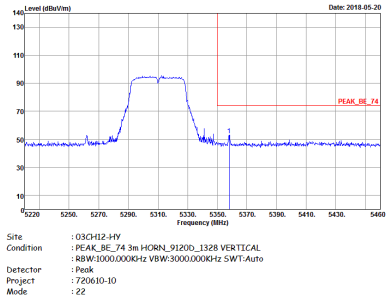
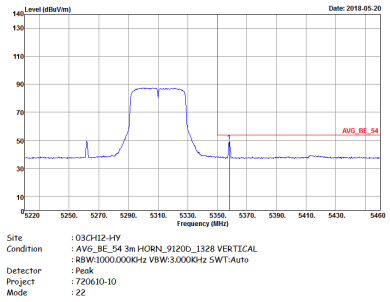
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

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

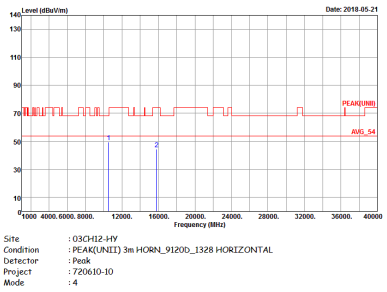
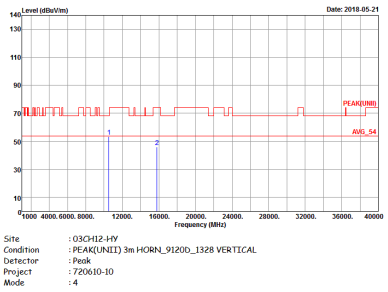
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 22	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 22	Left blank

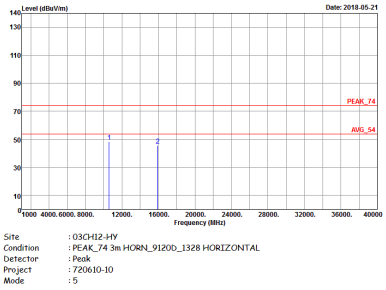
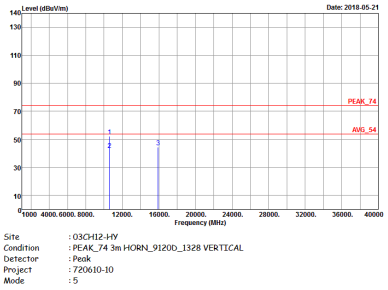
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

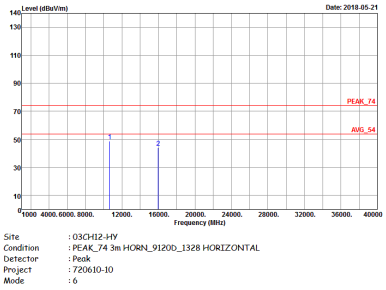
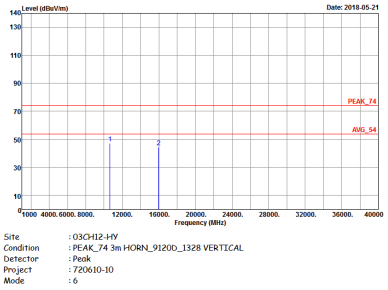
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

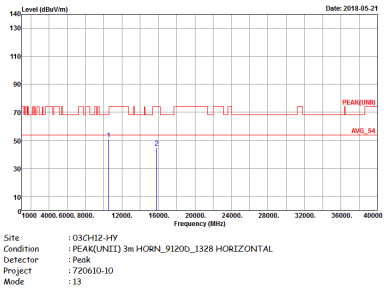
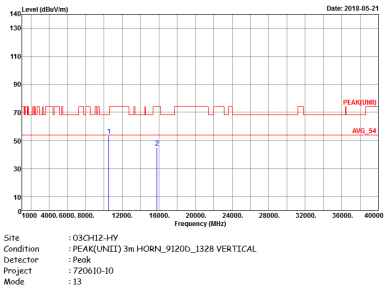
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

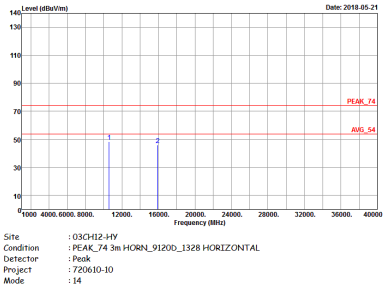
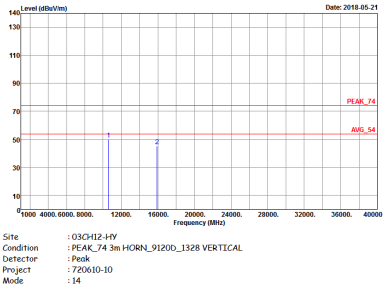
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

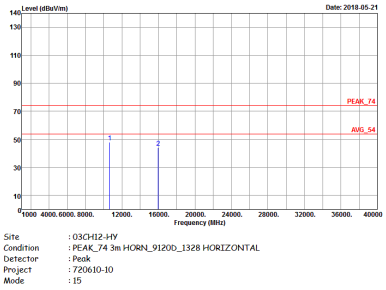
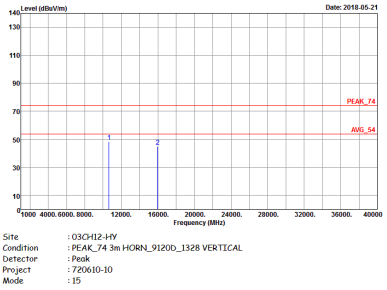
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

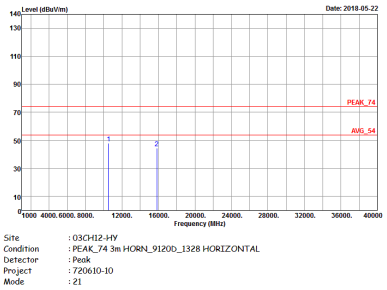
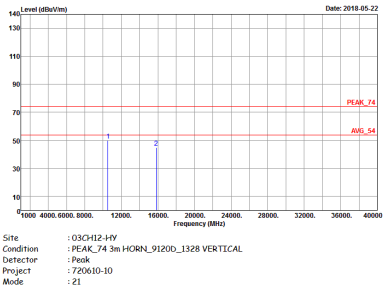
WIFI 802.11n HT20 (Harmonic @ 3m)

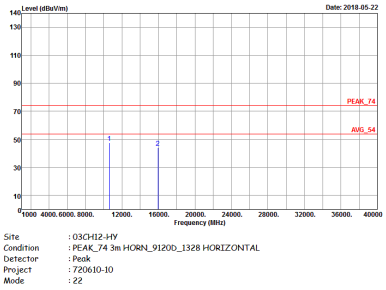
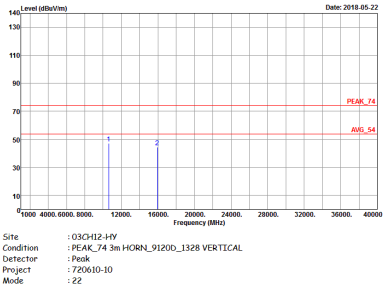
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

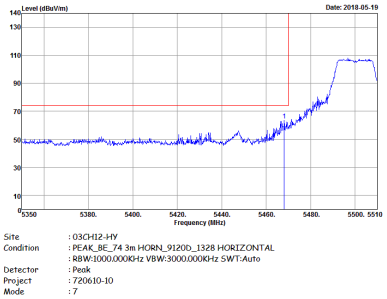
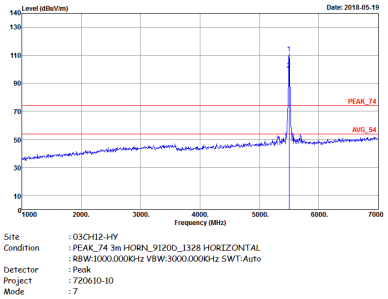
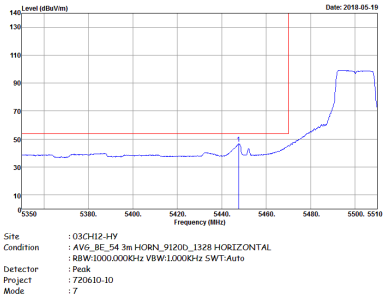
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

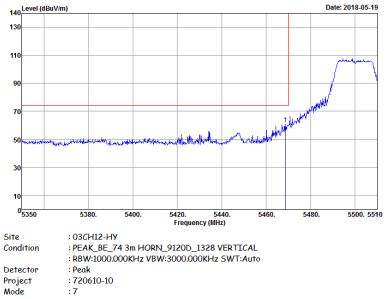
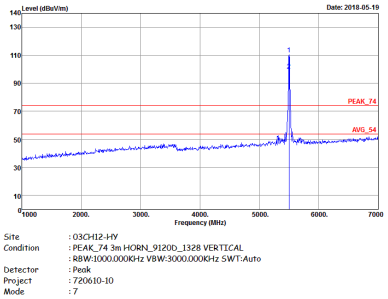
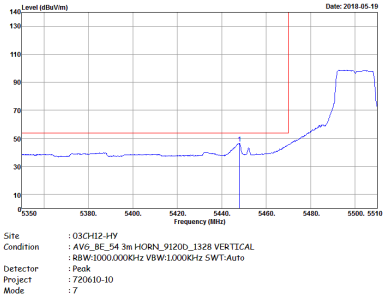
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

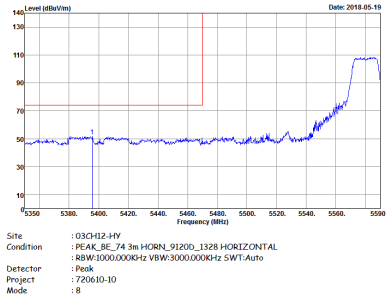
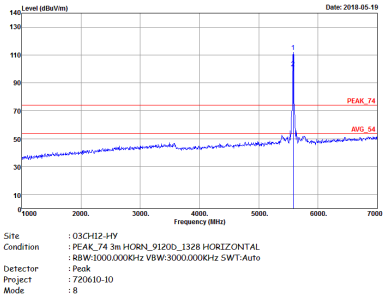
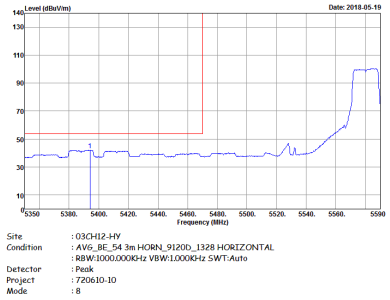
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

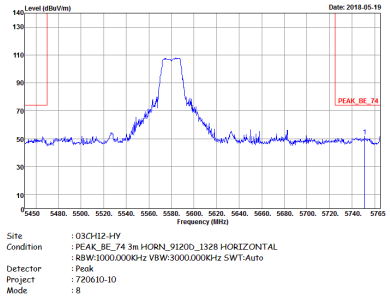
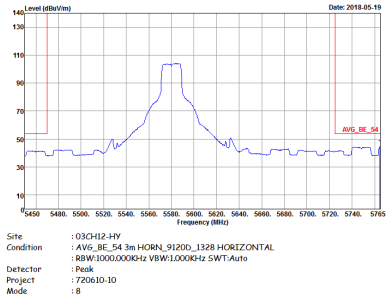
Band 3 - 5470~5725MHz

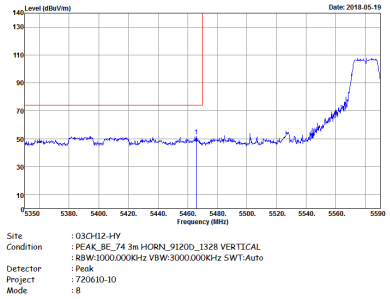
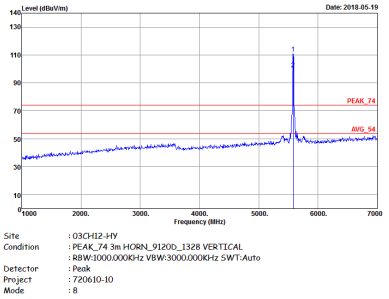
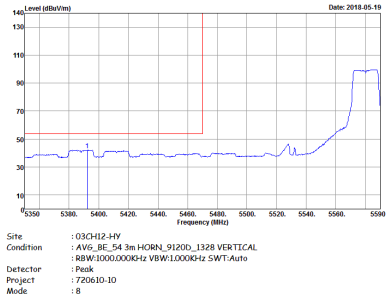
WIFI 802.11a (Band Edge @ 3m)

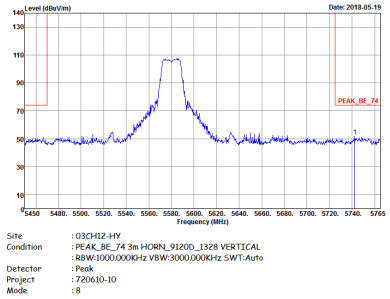
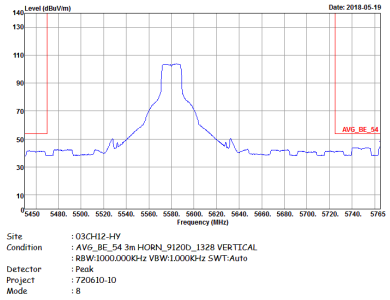
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

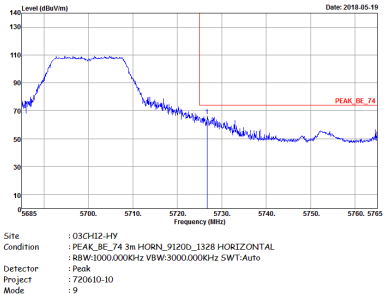
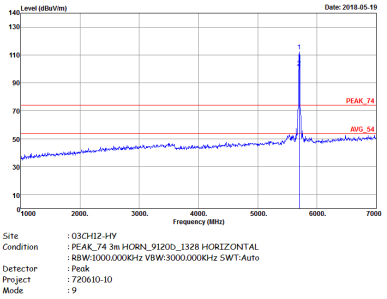
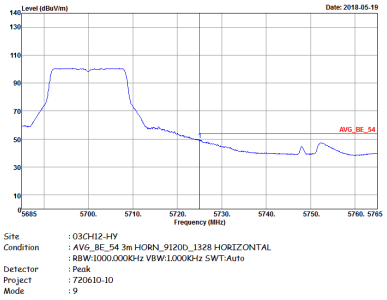
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

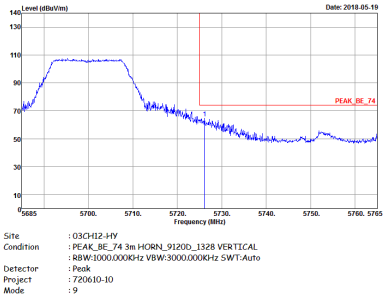
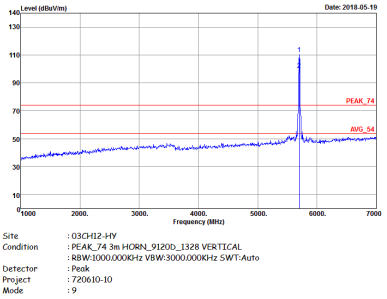
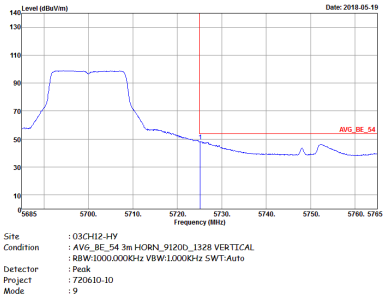
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

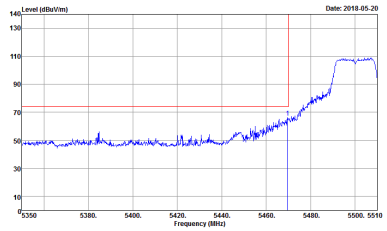
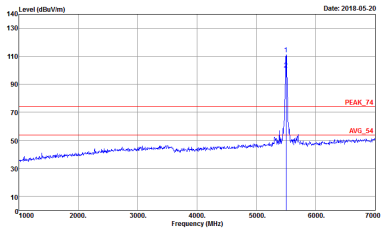
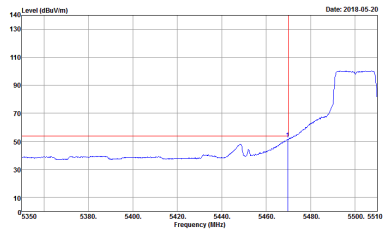
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

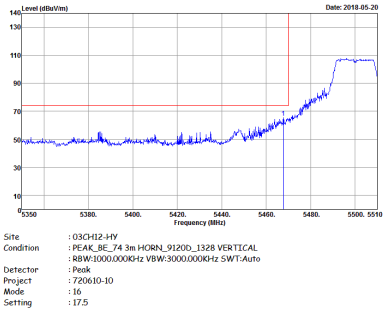
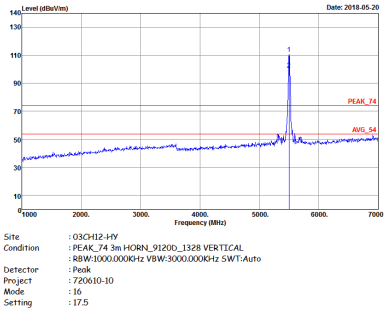
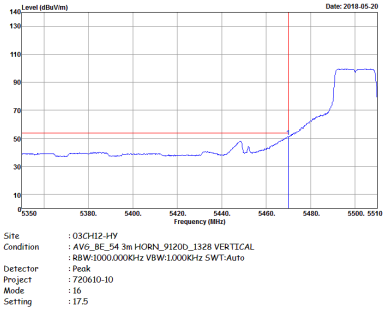
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

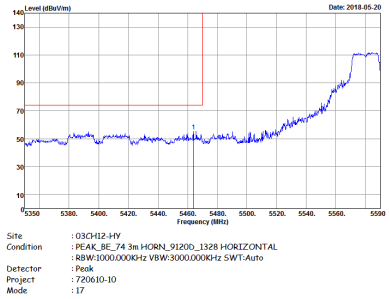
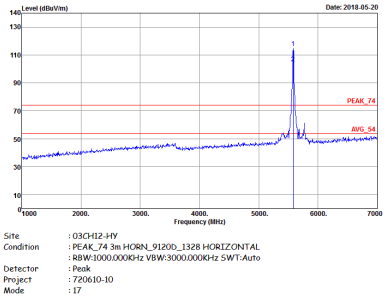
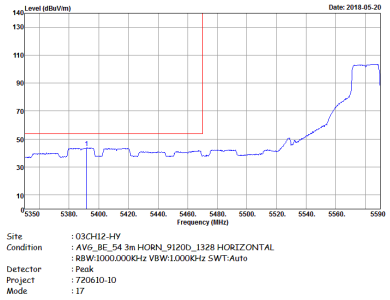
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

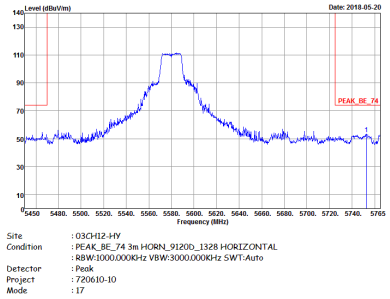
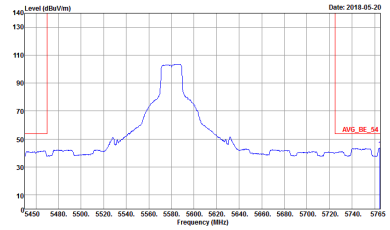
Band 3 5470~5725MHz

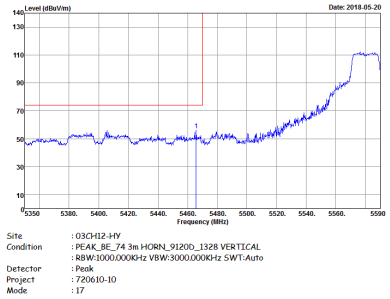
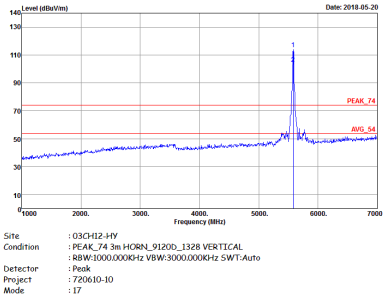
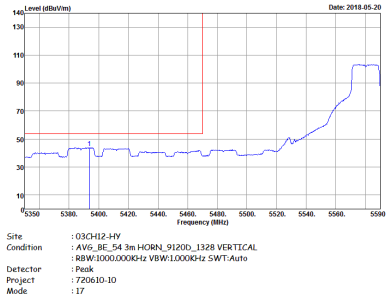
WIFI 802.11n HT20 (Band Edge @ 3m)

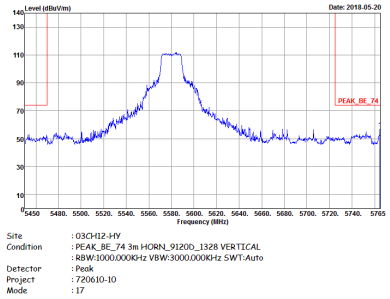
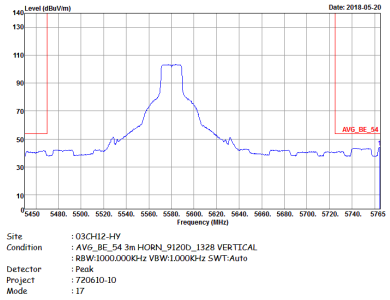
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 16 Setting : 17.5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 16 Setting : 17.5
Avg.	 Site : 03CH12-HY Condition : AV6_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 16 Setting : 17.5	Left blank

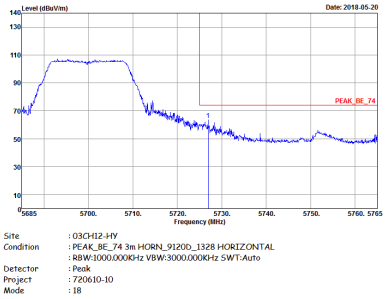
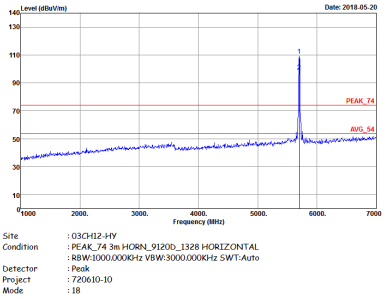
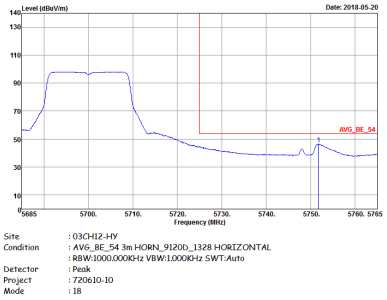
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

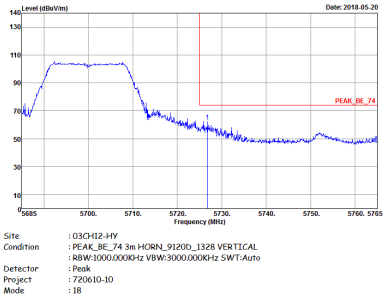
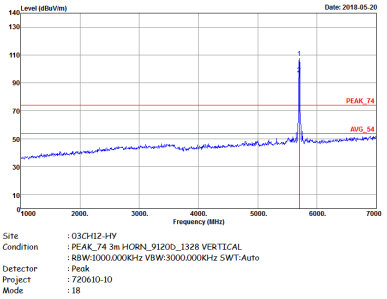
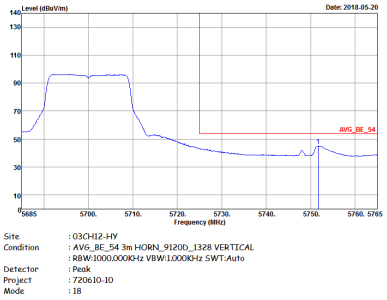
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 17	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 17	Left blank

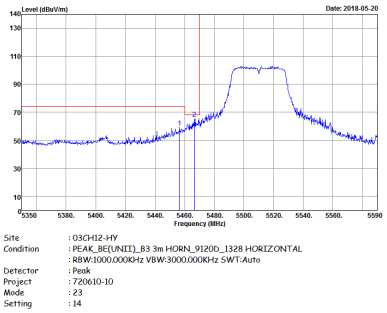
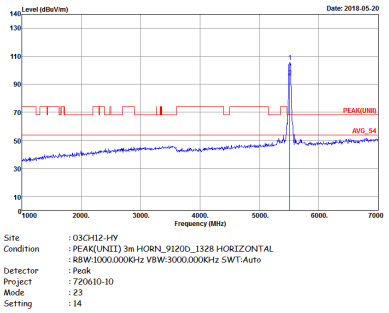
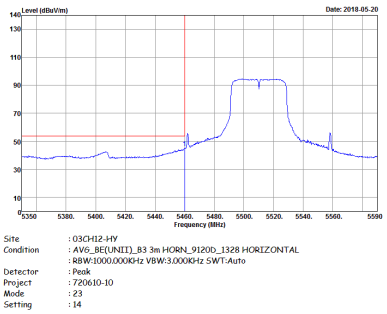
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

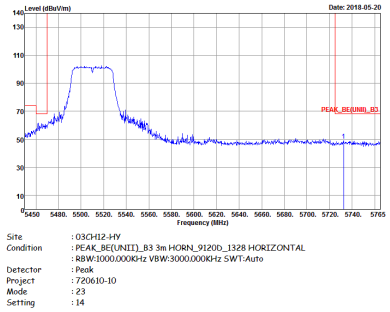
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

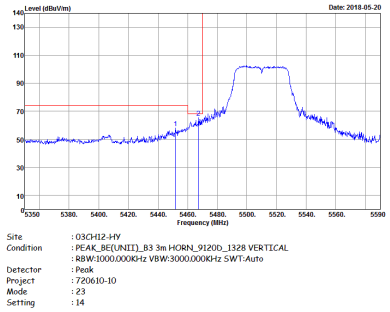
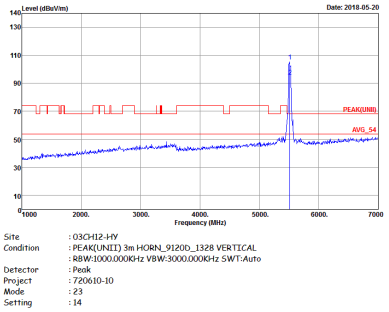
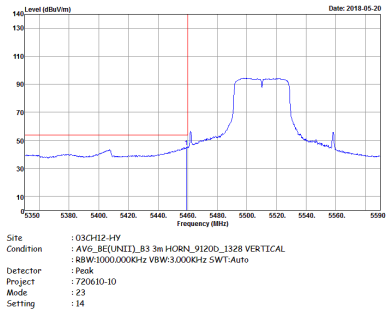
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

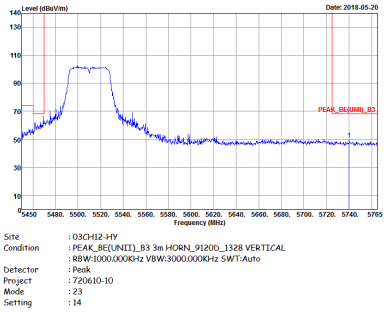
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		
Avg.		Left blank

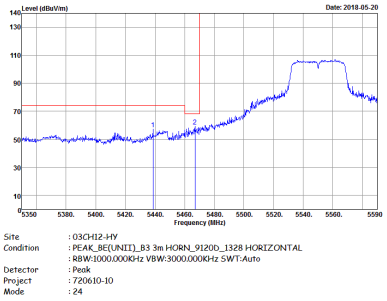
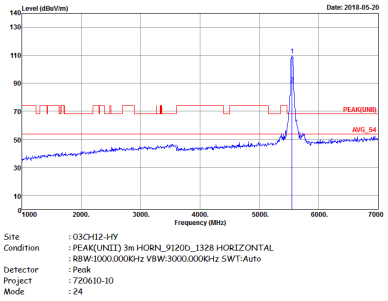
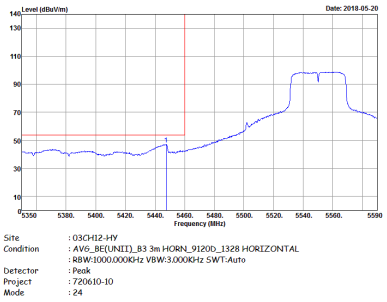
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

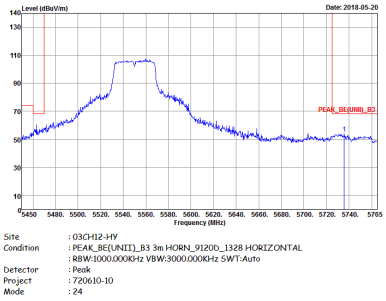
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

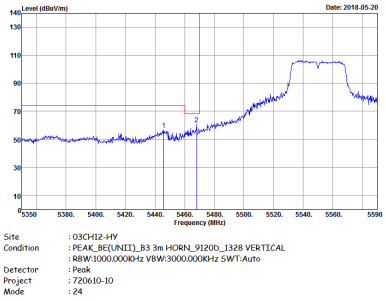
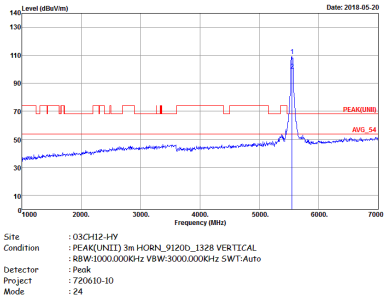
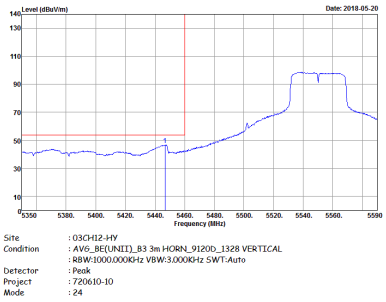
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

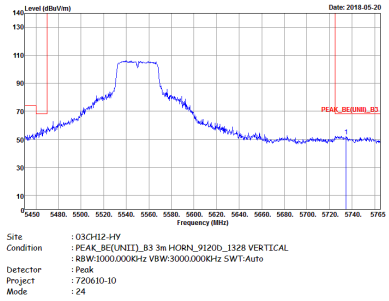
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

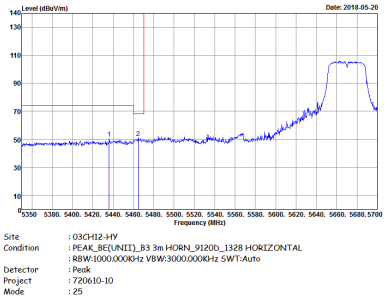
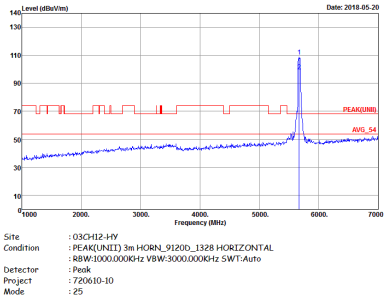
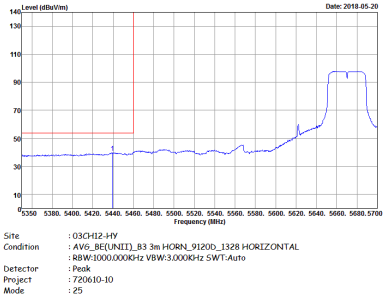
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

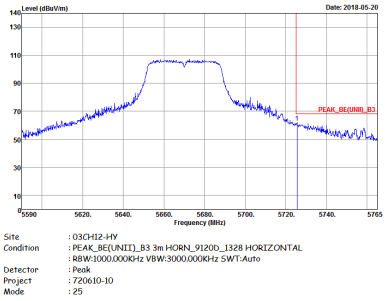
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

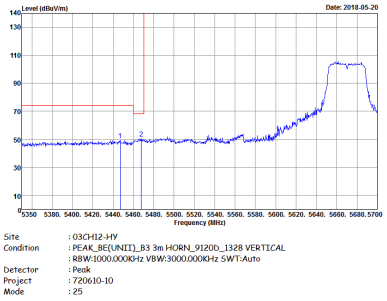
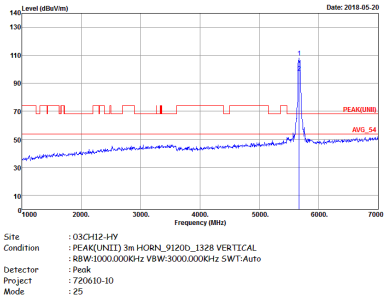
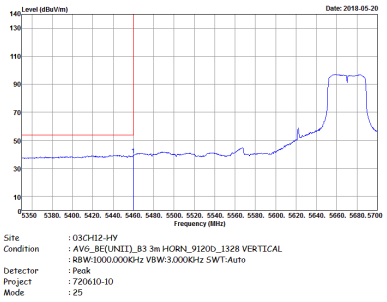
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

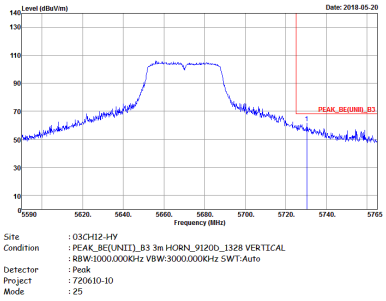
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

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

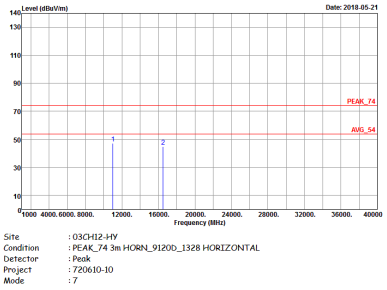
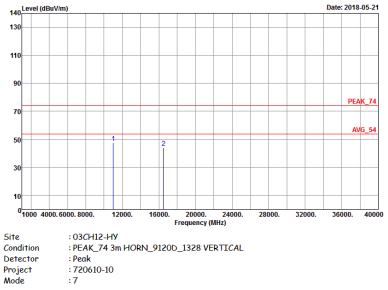
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

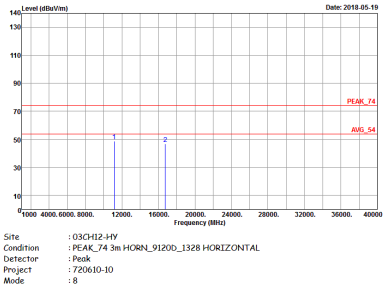
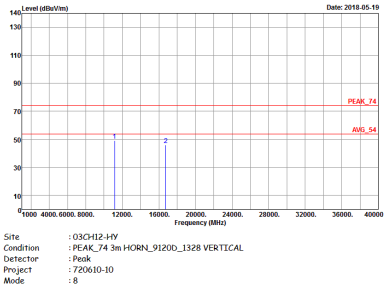
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

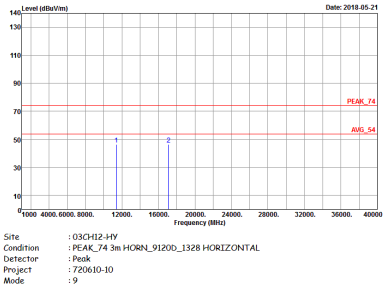
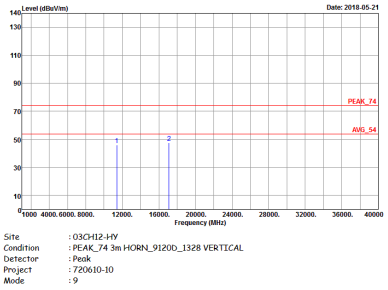
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

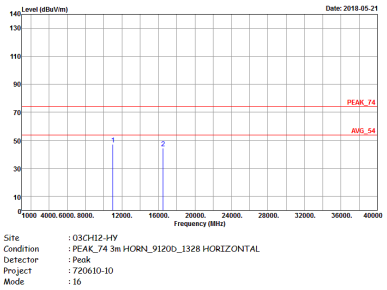
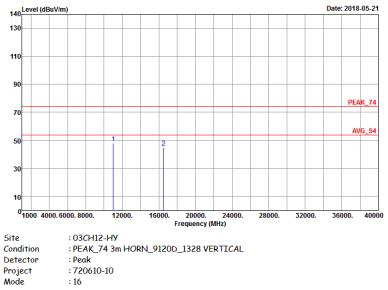
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

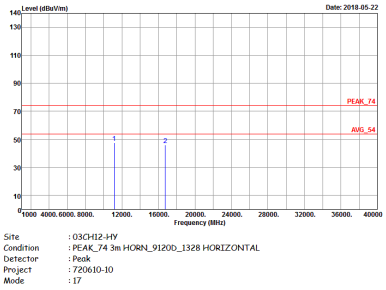
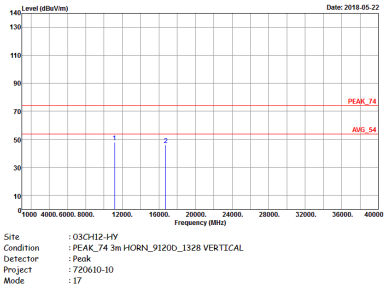
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

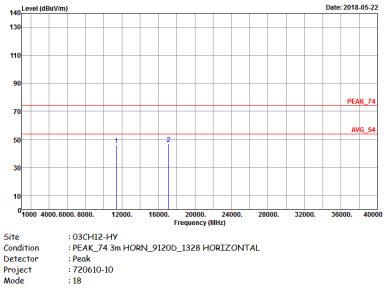
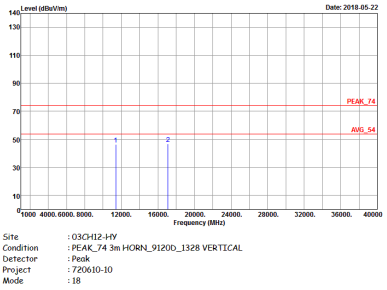
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

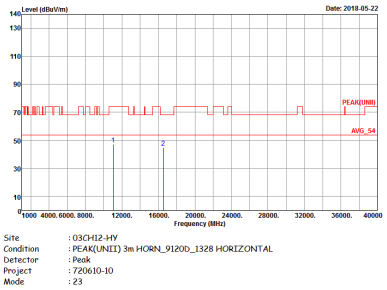
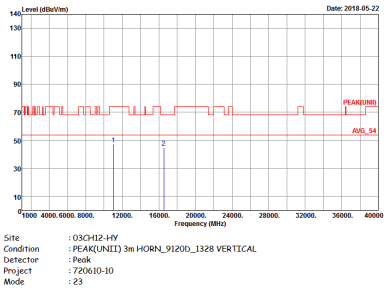
WIFI 802.11n HT20 (Harmonic @ 3m)

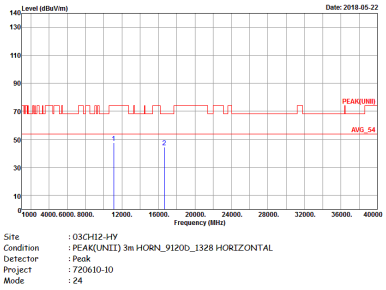
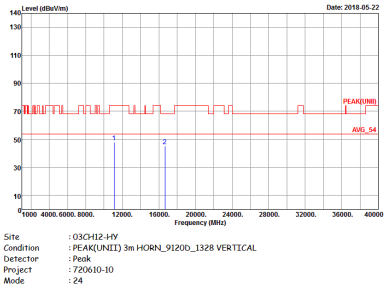
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

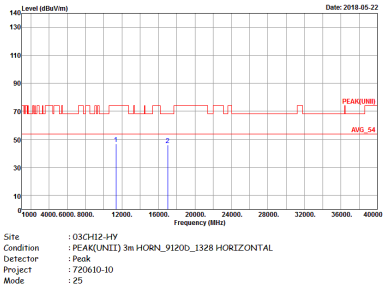
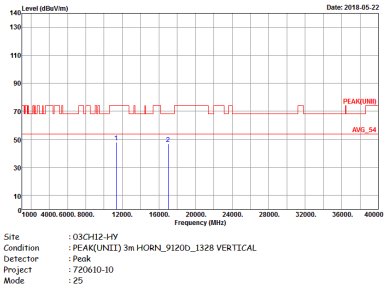
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

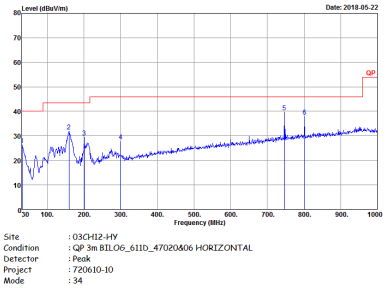
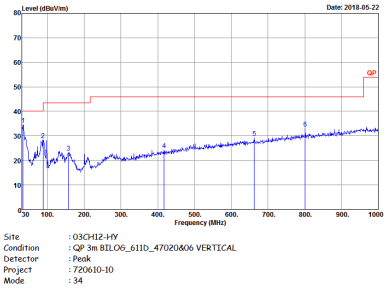
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

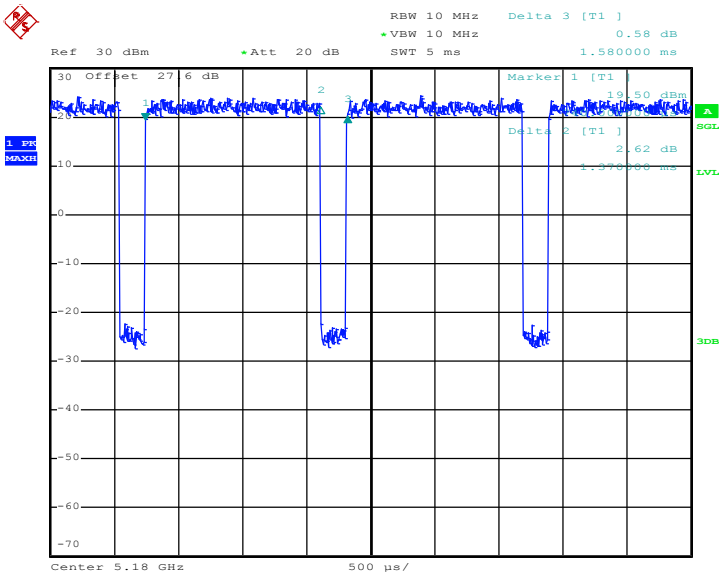
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

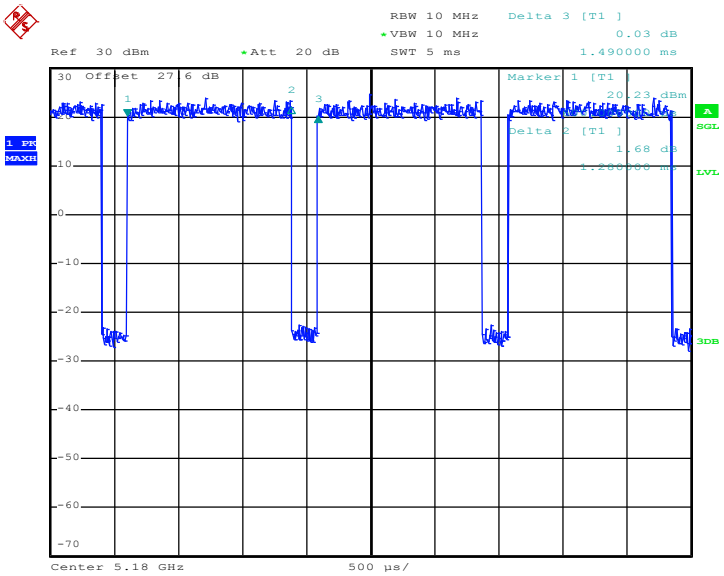
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	86.71	1370	0.73	1kHz	0.62
5GHz 802.11n HT20	85.91	1280	0.78	1kHz	0.66
5GHz 802.11n HT40	85.37	630	1.59	3kHz	0.69

802.11a



Date: 28.APR.2018 17:34:32

802.11n HT20



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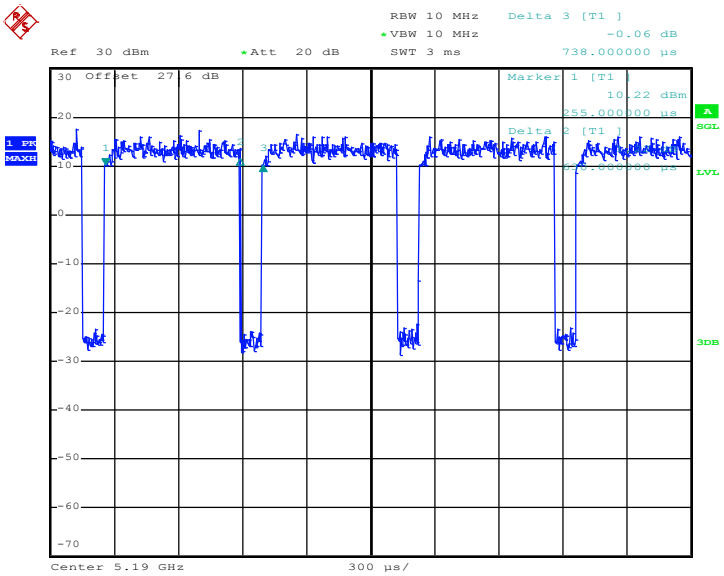
802.11n HT40



Date: 28.APR.2018 18:37:42