



FCC RF Test Report

APPLICANT : unitech Electronics Co., Ltd.
EQUIPMENT : Rugged Handheld Computer
BRAND NAME : unitech
MODEL NAME : PA726
FCC ID : HLEPA726BTNFL
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Nov. 04, 2017 and testing was completed on Jan. 27, 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



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TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Modification of EUT	5
1.5 Testing Location	5
1.6 Applicable Standards.....	6
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	9
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	10
3 TEST RESULT	11
3.1 26dB & 99% Occupied Bandwidth Measurement	11
3.2 Maximum Conducted Output Power Measurement	13
3.3 Power Spectral Density Measurement	15
3.4 Unwanted Emissions Measurement.....	17
3.5 AC Conducted Emission Measurement.....	22
3.6 Automatically Discontinue Transmission	24
3.7 Antenna Requirements.....	25
4 LIST OF MEASURING EQUIPMENT	26
5 UNCERTAINTY OF EVALUATION	27
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX E. DUTY CYCLE PLOTS	
APPENDIX F. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7N0405E	Rev. 01	Initial issue of report	Jan. 31, 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 5.50 dB at 5128.440 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 17.40 dB at 0.150 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

unitech Electronics Co., Ltd.

5Fl., No. 136, Lane 235, Pao-Chiao Rd. Hsin-Tien Area, New Taipei City, Taiwan 231, R.O.C.

1.2 Manufacturer

unitech Electronics Co., Ltd.

5Fl., No. 136, Lane 235, Pao-Chiao Rd. Hsin-Tien Area, New Taipei City, Taiwan 231, R.O.C.

1.3 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: Monopole Antenna Bluetooth: Monopole Antenna GPS / Glonass: Patch Antenna NFC: Loop Antenna

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 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 1 st 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	03CH07-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 (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	-	-	-	-
	56	5280	64	5320
	-	-		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	-	-	116	5580
	104	5520	132	5660
	-	-	-	-
	108	5540	136	5680
	-	-	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	-	-	124	5620
	120	5600	-	-
	-	-	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	-	-		

2.2 Test Mode

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

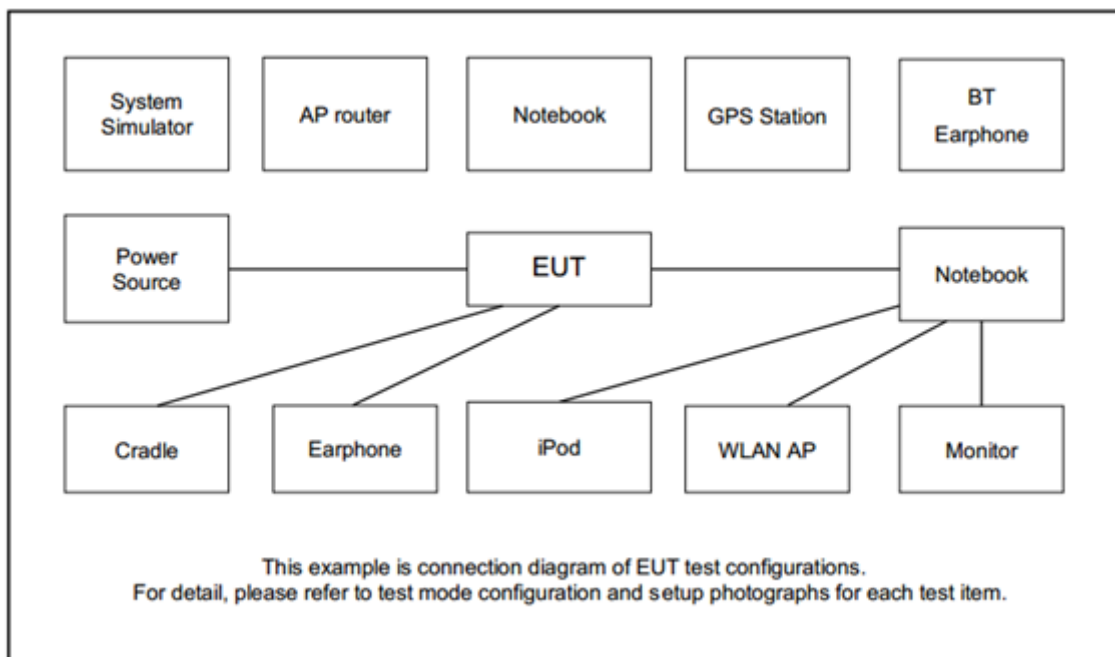
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11ac VHT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Battery + Earphone + U cup USB Cable Charging with AC Power

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
Straddle		-	-	144

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
Straddle		-	-	144

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	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
5.	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.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

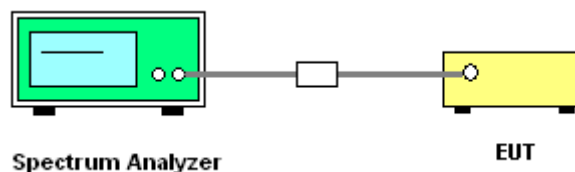
3.1.2 Measuring Instruments

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) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

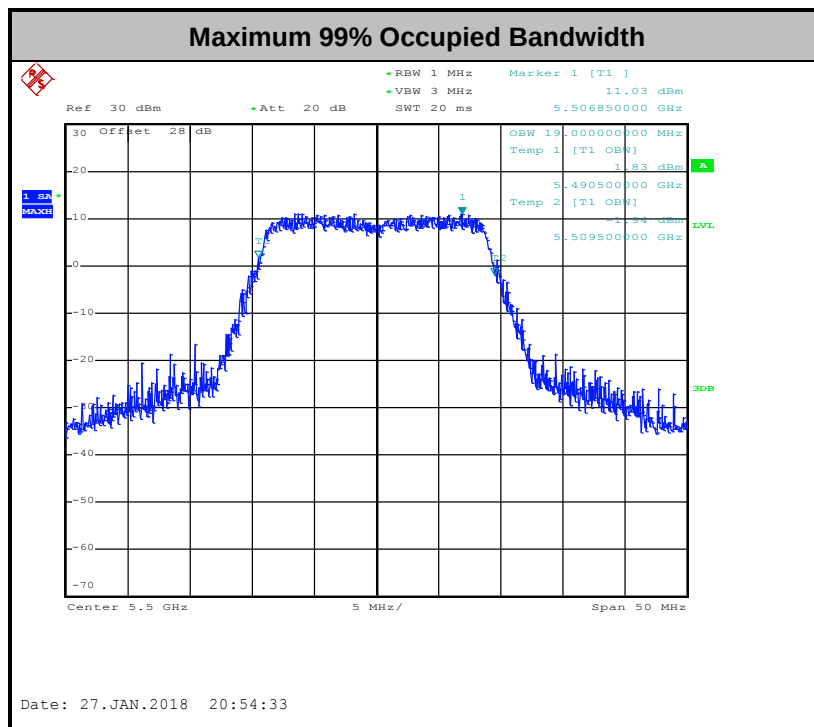
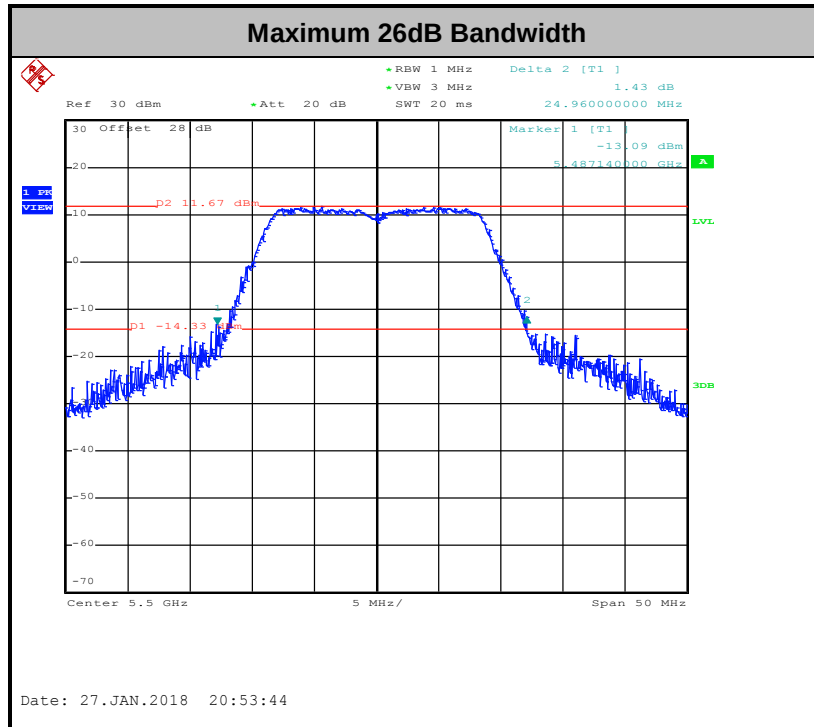
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

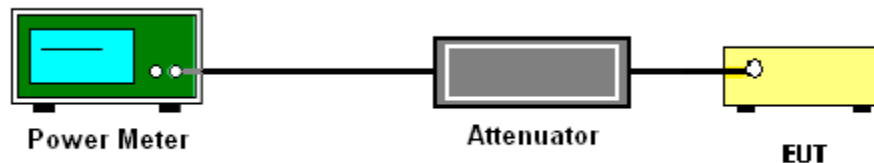
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

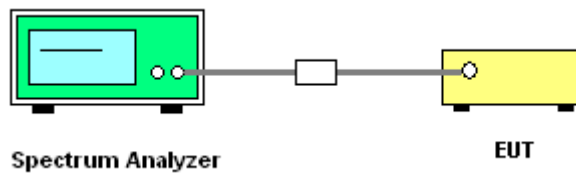
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 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.

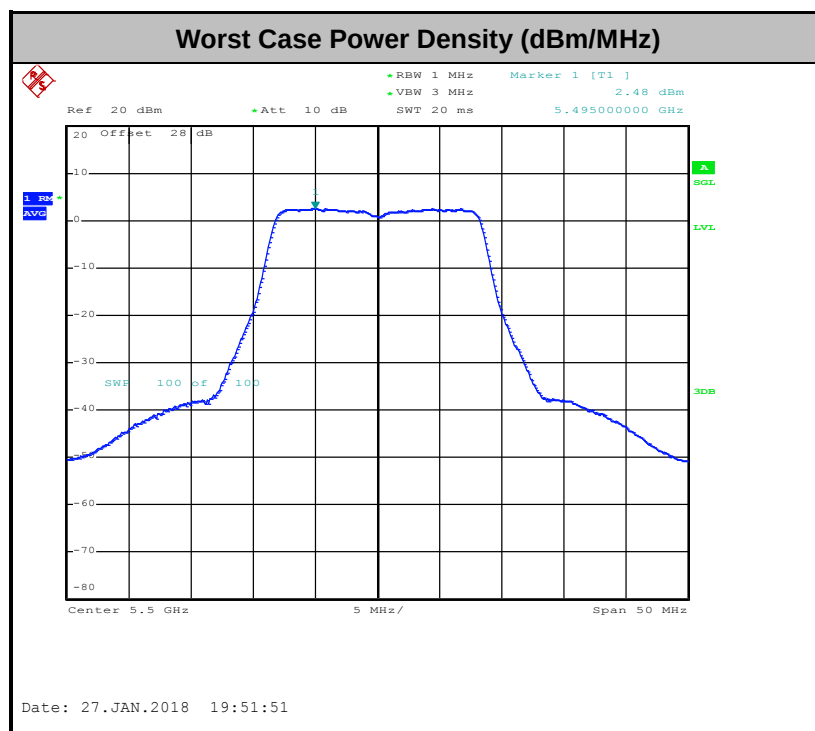
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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.

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



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

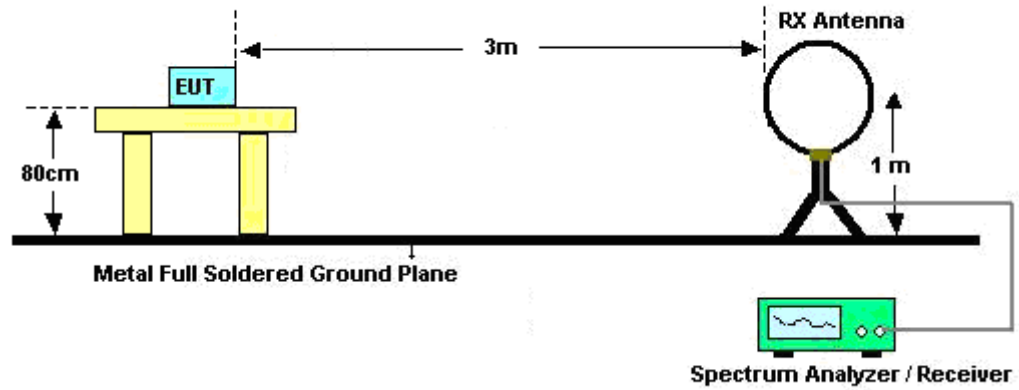
The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

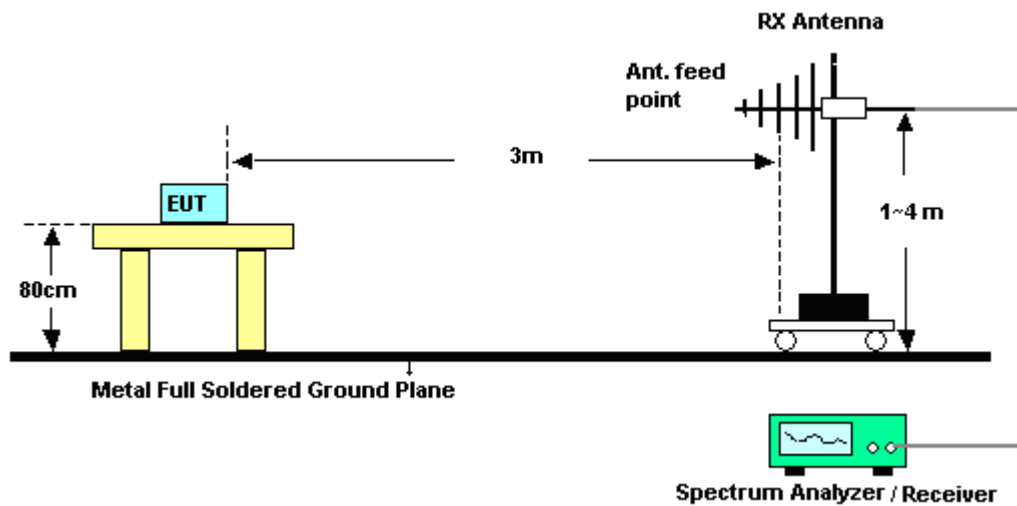
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 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 $\geq$ 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

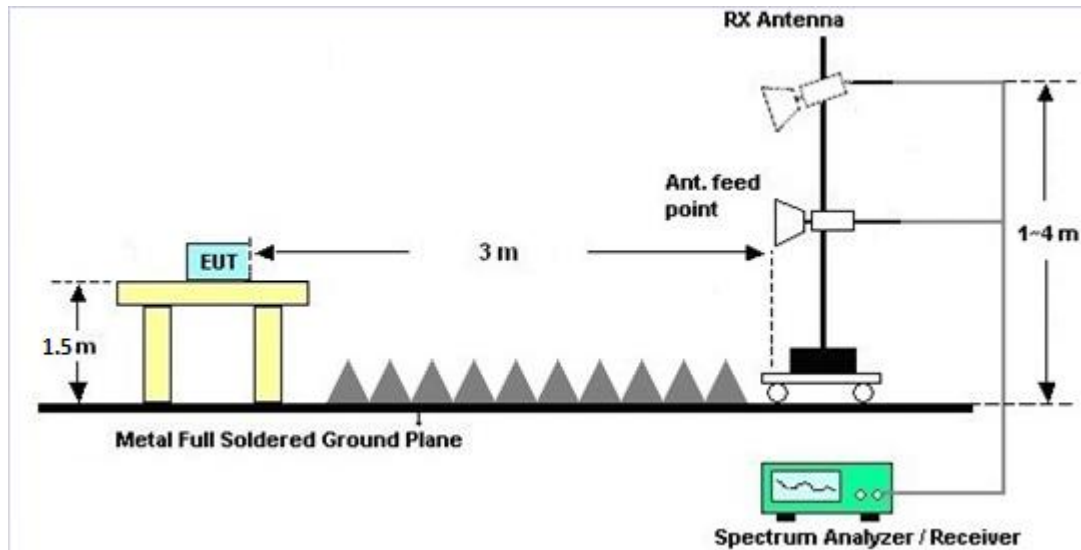
For radiated emissions below 30MHz



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 (dB μ V)	
	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.

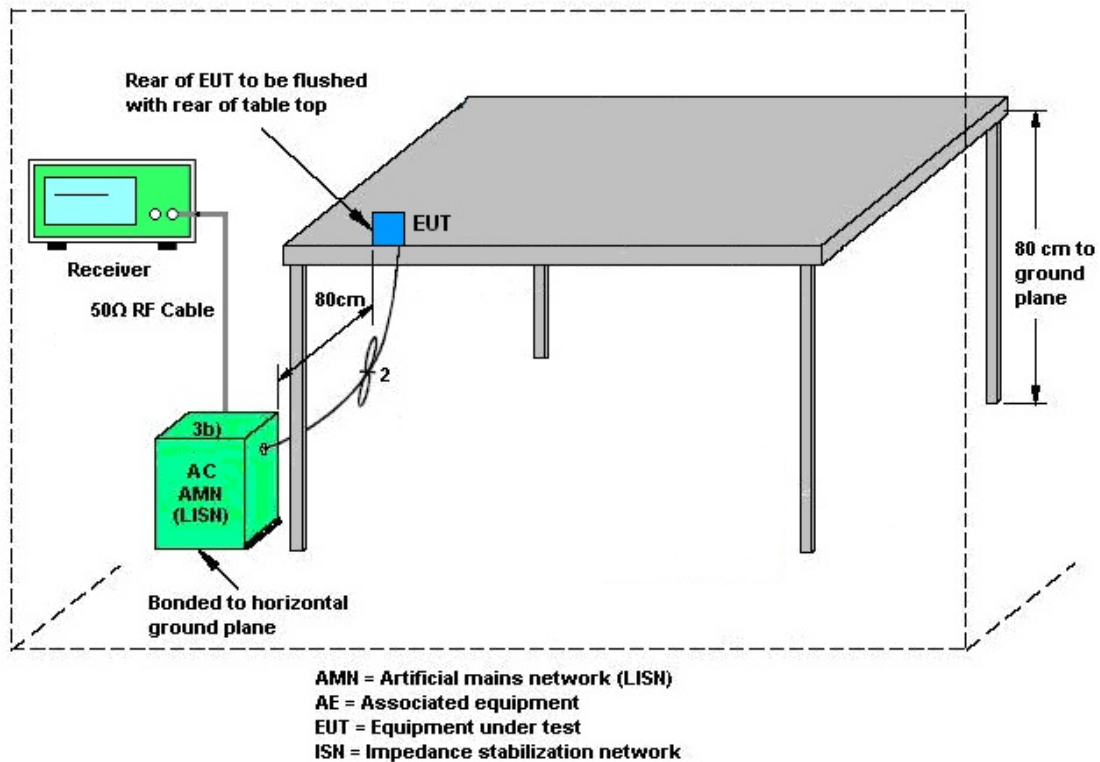
3.5.2 Measuring Instruments

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	0932001	N/A	Sep. 26, 2017	Dec. 28, 2017~ Jan. 27, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz z	Sep. 26, 2017	Dec. 28, 2017~ Jan. 27, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Dec. 28, 2017~ Jan. 27, 2018	Nov. 12, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 10, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 20, 2017	Jan. 10, 2018	Sep. 19, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jan. 10, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Jan. 03, 2018~ Jan. 11, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Jan. 03, 2018~ Jan. 11, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Jan. 03, 2018~ Jan. 11, 2018	Nov. 09, 2019	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 25, 2017	Jan. 03, 2018~ Jan. 11, 2018	Apr. 24, 2018	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	Mar. 14, 2017	Jan. 03, 2018~ Jan. 11, 2018	Mar. 13, 2018	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A023 62	1GHz~ 26.5GHz	Oct. 30, 2017	Jan. 03, 2018~ Jan. 11, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Apr. 17, 2017	Jan. 03, 2018~ Jan. 11, 2018	Apr. 16, 2018	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jan. 03, 2018~ Jan. 11, 2018	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jan. 03, 2018~ Jan. 11, 2018	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jan. 03, 2018~ Jan. 11, 2018	Jul. 17, 2018	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY572901 11	3Hz~26.5GHz	Nov. 02, 2017	Jan. 03, 2018~ Jan. 11, 2018	Nov. 01, 2018	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Jan. 03, 2018~ Jan. 11, 2018	Nov. 26, 2018	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Reece Lin/ Luffy Lin	Temperature:	21~25	°C
Test Date:	2017/12/28 ~ 2018/01/27	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)		
11a	6Mbps	1	36	5180	18.20	23.60	-	22.60		
11a	6Mbps	1	44	5220	18.00	23.70	-	22.55		
11a	6Mbps	1	48	5240	18.20	24.50	-	22.60		
HT20	MCS0	1	36	5180	18.90	24.90	-	22.76		
HT20	MCS0	1	44	5220	18.95	24.30	-	22.78		
HT20	MCS0	1	48	5240	18.85	24.30	-	22.75		

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
11a	6Mbps	1	36	5180	0.59	14.79	24.00	2.79		Pass
11a	6Mbps	1	44	5220	0.59	14.83	24.00	2.79		Pass
11a	6Mbps	1	48	5240	0.59	14.90	24.00	2.79		Pass
HT20	MCS0	1	36	5180	0.63	14.76	24.00	2.79		Pass
HT20	MCS0	1	44	5220	0.63	14.70	24.00	2.79		Pass
HT20	MCS0	1	48	5240	0.63	14.78	24.00	2.79		Pass
VHT20	MCS0	1	36	5180	0.23	13.63	24.00	2.79		Pass
VHT20	MCS0	1	44	5220	0.23	13.73	24.00	2.79		Pass
VHT20	MCS0	1	48	5240	0.23	13.79	24.00	2.79		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
11a	6Mbps	1	36	5180	0.59	1.76	11.00	2.79		Pass
11a	6Mbps	1	44	5220	0.59	2.13	11.00	2.79		Pass
11a	6Mbps	1	48	5240	0.59	2.56	11.00	2.79		Pass
HT20	MCS0	1	36	5180	0.63	1.67	11.00	2.79		Pass
HT20	MCS0	1	44	5220	0.63	2.13	11.00	2.79		Pass
HT20	MCS0	1	48	5240	0.63	2.17	11.00	2.79		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
11a	6M bps	1	52	5260	18.15	23.75	23.59	29.59	23.98	
11a	6M bps	1	60	5300	18.10	24.57	23.58	29.58	23.98	
11a	6M bps	1	64	5320	18.10	23.93	23.58	29.58	23.98	
HT20	MCS 0	1	52	5260	18.95	24.60	23.78	29.78	23.98	
HT20	MCS 0	1	60	5300	18.85	23.60	23.75	29.75	23.98	
HT20	MCS 0	1	64	5320	18.80	23.90	23.74	29.74	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.59	14.99	23.98	2.82	26.99	Pass
11a	6M bps	1	60	5300	0.59	14.95	23.98	2.82	26.99	Pass
11a	6M bps	1	64	5320	0.59	14.93	23.98	2.82	26.99	Pass
HT20	MCS 0	1	52	5260	0.63	14.89	23.98	2.82	26.99	Pass
HT20	MCS 0	1	60	5300	0.63	14.95	23.98	2.82	26.99	Pass
HT20	MCS 0	1	64	5320	0.63	14.93	23.98	2.82	26.99	Pass
VHT20	MCS 0	1	52	5260	0.23	13.85	23.98	2.82	26.99	Pass
VHT20	MCS 0	1	60	5300	0.23	13.98	23.98	2.82	26.99	Pass
VHT20	MCS 0	1	64	5320	0.23	13.96	23.98	2.82	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
11a	6M bps	1	52	5260	0.59	2.61	11.00	2.82		Pass
11a	6M bps	1	60	5300	0.59	2.31	11.00	2.82		Pass
11a	6M bps	1	64	5320	0.59	2.40	11.00	2.82		Pass
HT20	MCS 0	1	52	5260	0.63	2.35	11.00	2.82		Pass
HT20	MCS 0	1	60	5300	0.63	2.20	11.00	2.82		Pass
HT20	MCS 0	1	64	5320	0.63	2.19	11.00	2.82		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In UNII-2C (MHz)	26 dB Bandwidth In UNII-2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6dB Bandwidth for Straddle Channel (MHz)
11a	6M bps	1	100	5500	18.05	23.80	23.56	29.56	23.98	----
11a	6M bps	1	116	5580	18.25	23.93	23.61	29.61	23.98	----
11a	6M bps	1	140	5700	18.15	23.54	23.59	29.59	23.98	----
11a	6Mbps	1	144	5720	13.85	18.25	22.41	28.41	23.61	3.22
HT20	MCS 0	1	100	5500	19.00	24.96	23.79	29.79	23.98	----
HT20	MCS 0	1	116	5580	18.95	24.10	23.78	29.78	23.98	----
HT20	MCS 0	1	140	5700	18.80	23.84	23.74	29.74	23.98	----
HT20	MCS0	1	144	5720	14.50	17.00	22.61	28.61	23.30	3.84

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.59	14.69	23.98	2.35	26.99	Pass
11a	6M bps	1	116	5580	0.59	14.99	23.98	2.35	26.99	Pass
11a	6M bps	1	140	5700	0.59	14.74	23.98	2.35	26.99	Pass
11a	6M bps	1	144	5720	0.59	14.65	23.61	2.35	26.99	Pass
HT20	MCS 0	1	100	5500	0.63	14.94	23.98	2.35	26.99	Pass
HT20	MCS 0	1	116	5580	0.63	14.83	23.98	2.35	26.99	Pass
HT20	MCS 0	1	140	5700	0.63	14.87	23.98	2.35	26.99	Pass
HT20	MCS 0	1	144	5720	0.63	14.66	23.30	2.35	26.99	Pass
VHT20	MCS 0	1	100	5500	0.23	13.74	23.98	2.35	26.99	Pass
VHT20	MCS 0	1	116	5580	0.23	13.71	23.98	2.35	26.99	Pass
VHT20	MCS 0	1	140	5700	0.23	13.70	23.98	2.35	26.99	Pass
VHT20	MCS 0	1	144	5720	0.23	13.99	23.98	2.35	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.59	3.07	11.00	2.35		Pass
11a	6M bps	1	116	5580	0.59	2.84	11.00	2.35		Pass
11a	6M bps	1	140	5700	0.59	1.83	11.00	2.35		Pass
11a	6Mbps	1	144	5720	0.59	1.84	11.00	2.35		Pass
HT20	MCS 0	1	100	5500	0.63	2.97	11.00	2.35		Pass
HT20	MCS 0	1	116	5580	0.63	2.77	11.00	2.35		Pass
HT20	MCS 0	1	140	5700	0.63	1.34	11.00	2.35		Pass
HT20	MCS0	1	144	5720	0.63	1.50	11.00	2.35		Pass



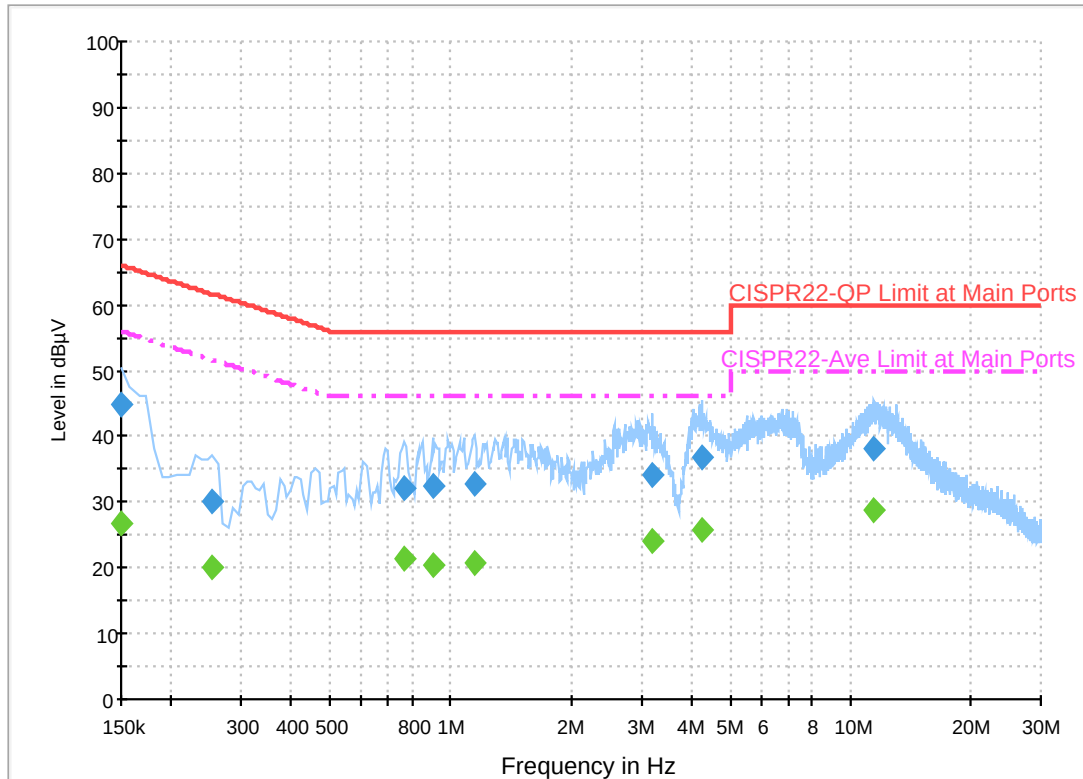
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	Temperature :	23~25℃
		Relative Humidity :	60~62%

EUT Information

Report NO : 7N0405
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	44.9	Off	L1	19.5	21.1	66.0
0.254000	30.2	Off	L1	19.5	31.4	61.6
0.766000	32.3	Off	L1	19.5	23.7	56.0
0.902000	32.4	Off	L1	19.5	23.6	56.0
1.150000	32.8	Off	L1	19.6	23.2	56.0
3.198000	34.1	Off	L1	19.6	21.9	56.0
4.270000	36.9	Off	L1	19.6	19.1	56.0
11.502000	38.0	Off	L1	19.7	22.0	60.0

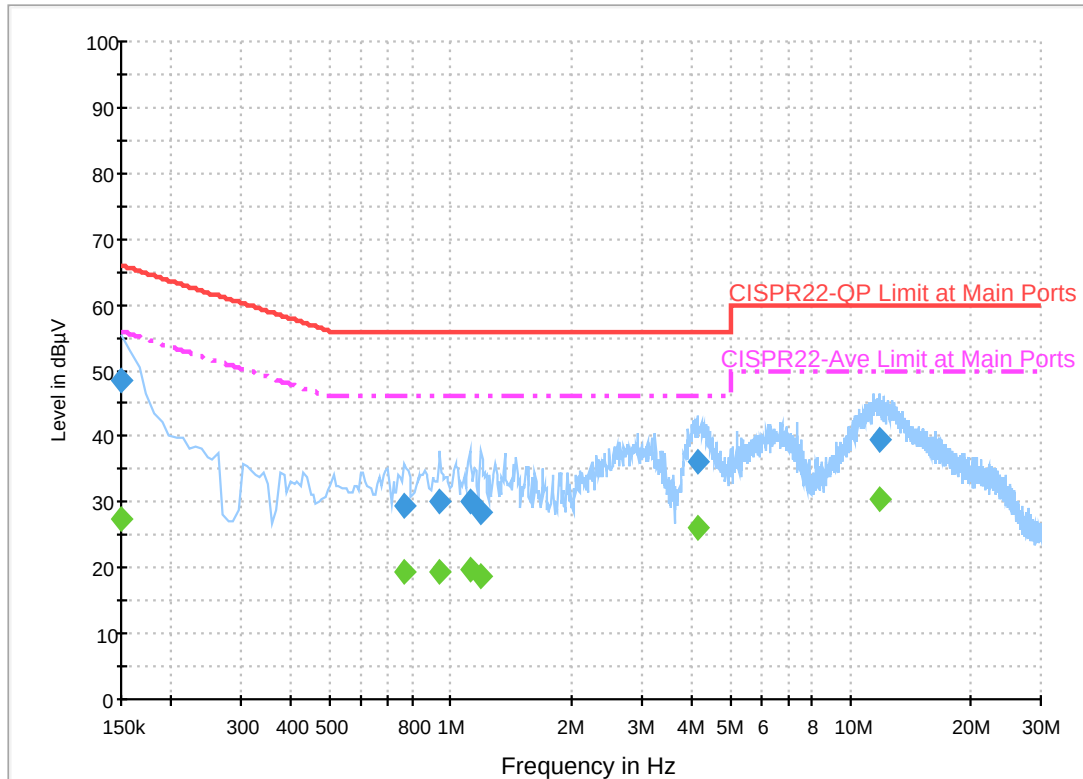
Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	26.7	Off	L1	19.5	29.3	56.0
0.254000	20.2	Off	L1	19.5	31.4	51.6
0.766000	21.4	Off	L1	19.5	24.6	46.0
0.902000	20.2	Off	L1	19.5	25.8	46.0
1.150000	20.7	Off	L1	19.6	25.3	46.0
3.198000	24.1	Off	L1	19.6	21.9	46.0
4.270000	25.8	Off	L1	19.6	20.2	46.0
11.502000	28.9	Off	L1	19.7	21.1	50.0

EUT Information

Report NO : 7N0405
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	48.6	Off	N	19.5	17.4	66.0
0.766000	29.5	Off	N	19.5	26.5	56.0
0.942000	30.2	Off	N	19.5	25.8	56.0
1.118000	30.0	Off	N	19.5	26.0	56.0
1.190000	28.4	Off	N	19.5	27.6	56.0
4.150000	36.1	Off	N	19.6	19.9	56.0
11.838000	39.5	Off	N	19.7	20.5	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	27.5	Off	N	19.5	28.5	56.0
0.766000	19.3	Off	N	19.5	26.7	46.0
0.942000	19.5	Off	N	19.5	26.5	46.0
1.118000	19.9	Off	N	19.5	26.1	46.0
1.190000	18.7	Off	N	19.5	27.3	46.0
4.150000	26.2	Off	N	19.6	19.8	46.0
11.838000	30.4	Off	N	19.7	19.6	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang and Stan Hsieh	Temperature :	17~21°C
		Relative Humidity :	48~58%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5128.44	52.48	-21.52	74	41.28	34.39	11.95	35.14	315	20	P	H
		5127.66	47.21	-6.79	54	36.01	34.39	11.95	35.14	315	20	A	H
	*	5180	107.87	-	-	96.56	34.46	11.99	35.14	315	20	P	H
	*	5180	100.19	-	-	88.88	34.46	11.99	35.14	315	20	A	H
													H
													H
		5126.1	50.53	-23.47	74	39.33	34.39	11.95	35.14	246	29	P	V
		5127.66	44.53	-9.47	54	33.33	34.39	11.95	35.14	246	29	A	V
	*	5180	104.44	-	-	93.13	34.46	11.99	35.14	246	29	P	V
	*	5180	97.54	-	-	86.23	34.46	11.99	35.14	246	29	A	V
													V
													V
802.11a CH 44 5220MHz		5130.52	49.97	-24.03	74	38.77	34.39	11.95	35.14	310	21	P	H
		5128.18	41.6	-12.4	54	30.4	34.39	11.95	35.14	310	21	A	H
	*	5220	107.48	-	-	96.08	34.5	12.04	35.14	310	21	P	H
	*	5220	99.68	-	-	88.28	34.5	12.04	35.14	310	21	A	H
		5458.88	49.7	-24.3	74	37.4	34.83	12.63	35.16	310	21	P	H
		5459.72	41.38	-12.62	54	29.08	34.83	12.63	35.16	310	21	A	H
		5054.34	50.53	-23.47	74	39.54	34.27	11.85	35.13	244	29	P	V
		5096.72	41.11	-12.89	54	30.01	34.34	11.9	35.14	244	29	A	V
	*	5220	104.14	-	-	92.74	34.5	12.04	35.14	244	29	P	V
	*	5220	97.18	-	-	85.78	34.5	12.04	35.14	244	29	A	V
		5387.48	50.48	-23.52	74	38.24	34.74	12.65	35.15	244	29	P	V
		5440.4	41.27	-12.73	54	28.99	34.81	12.63	35.16	244	29	A	V



802.11a CH 48 5240MHz		5036.92	50.41	-23.59	74	39.44	34.25	11.85	35.13	306	21	P	H
		5106.86	41.69	-12.31	54	30.52	34.36	11.95	35.14	306	21	A	H
	*	5240	107.09	-	-	95.54	34.53	12.16	35.14	306	21	P	H
	*	5240	99.14	-	-	87.59	34.53	12.16	35.14	306	21	A	H
		5413.52	49.93	-24.07	74	37.66	34.78	12.65	35.16	306	21	P	H
		5459.16	41.35	-12.65	54	29.05	34.83	12.63	35.16	306	21	A	H
		5027.82	50.04	-23.96	74	39.07	34.25	11.85	35.13	252	28	P	V
		5095.94	41.16	-12.84	54	30.06	34.34	11.9	35.14	252	28	A	V
	*	5240	104.95	-	-	93.4	34.53	12.16	35.14	252	28	P	V
	*	5240	97.41	-	-	85.86	34.53	12.16	35.14	252	28	A	V
		5431.16	50.13	-23.87	74	37.85	34.81	12.63	35.16	252	28	P	V
		5453	41.24	-12.76	54	28.94	34.83	12.63	35.16	252	28	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	45.19	-23.01	68.2	48.85	37.19	17.83	59.31	100	0	P	H
		15540	45.22	-28.78	74	39.08	40.43	22.16	56.87	100	0	P	H
													H
													H
		10360	44.72	-23.48	68.2	48.38	37.19	17.83	59.31	100	0	P	V
		15540	44.97	-29.03	74	38.83	40.43	22.16	56.87	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	44.78	-23.42	68.2	48.2	37.25	17.91	59.25	100	0	P	H
		15660	46.07	-27.93	74	39.62	40.52	22.29	56.78	100	0	P	H
													H
													H
		10440	44.72	-23.48	68.2	48.14	37.25	17.91	59.25	100	0	P	V
		15660	46.28	-27.72	74	39.83	40.52	22.29	56.78	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	44.46	-23.74	68.2	47.77	37.29	17.94	59.21	100	0	P	H
		15720	44.42	-29.58	74	37.8	40.58	22.37	56.72	100	0	P	H
													H
													H
		10480	43.87	-24.33	68.2	47.18	37.29	17.94	59.21	100	0	P	V
		15720	44.23	-29.77	74	37.61	40.58	22.37	56.72	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5149.5	57.35	-16.65	74	46.09	34.41	11.99	35.14	317	21	P	H
		5128.44	48.5	-5.5	54	37.3	34.39	11.95	35.14	317	21	A	H
	*	5180	107.55	-	-	96.24	34.46	11.99	35.14	317	21	P	H
	*	5180	100.59	-	-	89.28	34.46	11.99	35.14	317	21	A	H
													H
													H
		5083.2	50.3	-23.7	74	39.21	34.32	11.9	35.13	246	28	P	V
		5128.18	44.93	-9.07	54	33.73	34.39	11.95	35.14	246	28	A	V
	*	5180	104.26	-	-	92.95	34.46	11.99	35.14	246	28	P	V
	*	5180	97.47	-	-	86.16	34.46	11.99	35.14	246	28	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5061.62	51.25	-22.75	74	40.19	34.29	11.9	35.13	310	22	P	H
		5031.72	41.58	-12.42	54	30.61	34.25	11.85	35.13	310	22	A	H
	*	5220	107.09	-	-	95.69	34.5	12.04	35.14	310	22	P	H
	*	5220	99.56	-	-	88.16	34.5	12.04	35.14	310	22	A	H
		5399.8	51.03	-22.97	74	38.78	34.76	12.65	35.16	310	22	P	H
		5458.88	41.26	-12.74	54	28.96	34.83	12.63	35.16	310	22	A	H
		5108.16	49.99	-24.01	74	38.82	34.36	11.95	35.14	244	29	P	V
		5141.44	41.16	-12.84	54	29.9	34.41	11.99	35.14	244	29	A	V
	*	5220	104.29	-	-	92.89	34.5	12.04	35.14	244	29	P	V
	*	5220	96.82	-	-	85.42	34.5	12.04	35.14	244	29	A	V
		5401.76	49.49	-24.51	74	37.24	34.76	12.65	35.16	244	29	P	V
		5459.44	41.71	-12.29	54	29.41	34.83	12.63	35.16	244	29	A	V



802.11n HT20 CH 48 5240MHz		5113.62	49.94	-24.06	74	38.77	34.36	11.95	35.14	307	22	P	H
		5088.14	41.8	-12.2	54	30.71	34.32	11.9	35.13	307	22	A	H
	*	5240	106.98	-	-	95.43	34.53	12.16	35.14	307	22	P	H
	*	5240	99.2	-	-	87.65	34.53	12.16	35.14	307	22	A	H
		5383.84	50.26	-23.74	74	38.02	34.74	12.65	35.15	307	22	P	H
		5457.48	41.42	-12.58	54	29.12	34.83	12.63	35.16	307	22	A	H
		5134.16	48.97	-25.03	74	37.77	34.39	11.95	35.14	260	29	P	V
		5121.94	41.14	-12.86	54	29.97	34.36	11.95	35.14	260	29	A	V
	*	5240	104.93	-	-	93.38	34.53	12.16	35.14	260	29	P	V
	*	5240	96.5	-	-	84.95	34.53	12.16	35.14	260	29	A	V
		5385.8	50.7	-23.3	74	38.46	34.74	12.65	35.15	260	29	P	V
		5453.84	41.37	-12.63	54	29.07	34.83	12.63	35.16	260	29	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	42.59	-25.61	68.2	46.25	37.19	17.83	59.31	100	0	P	H
		15540	43.89	-30.11	74	37.75	40.43	22.16	56.87	100	0	P	H
													H
													H
		10360	43.94	-24.26	68.2	47.6	37.19	17.83	59.31	100	0	P	V
		15540	44.38	-29.62	74	38.24	40.43	22.16	56.87	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	45.09	-23.11	68.2	48.51	37.25	17.91	59.25	100	0	P	H
		15660	46.56	-27.44	74	40.11	40.52	22.29	56.78	100	0	P	H
													H
													H
		10440	44.14	-24.06	68.2	47.56	37.25	17.91	59.25	100	0	P	V
		15660	45.77	-28.23	74	39.32	40.52	22.29	56.78	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	45.12	-23.08	68.2	48.43	37.29	17.94	59.21	100	0	P	H
		15720	44.93	-29.07	74	38.31	40.58	22.37	56.72	100	0	P	H
													H
													H
		10480	44.91	-23.29	68.2	48.22	37.29	17.94	59.21	100	0	P	V
		15720	45.92	-28.08	74	39.3	40.58	22.37	56.72	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	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5118.3	50.02	-23.98	74	38.85	34.36	11.95	35.14	319	22	P	H
		5051.45	41.59	-12.41	54	30.6	34.27	11.85	35.13	319	22	A	H
	*	5260	107.1	-	-	95.52	34.57	12.16	35.15	319	22	P	H
	*	5260	98.98	-	-	87.4	34.57	12.16	35.15	319	22	A	H
		5425.44	48.9	-25.1	74	36.65	34.78	12.63	35.16	319	22	P	H
		5459.52	41.72	-12.28	54	29.42	34.83	12.63	35.16	319	22	A	H
		5049	50.2	-23.8	74	39.21	34.27	11.85	35.13	259	30	P	V
		5085.75	41.16	-12.84	54	30.07	34.32	11.9	35.13	259	30	A	V
	*	5260	103.78	-	-	92.2	34.57	12.16	35.15	259	30	P	V
	*	5260	96.13	-	-	84.55	34.57	12.16	35.15	259	30	A	V
		5424.24	49.45	-24.55	74	37.2	34.78	12.63	35.16	259	30	P	V
		5448	41.39	-12.61	54	29.09	34.83	12.63	35.16	259	30	A	V
802.11a CH 60 5300MHz		5145.6	50.24	-23.76	74	38.98	34.41	11.99	35.14	317	23	P	H
		5110.25	41.68	-12.32	54	30.51	34.36	11.95	35.14	317	23	A	H
	*	5300	106.82	-	-	95.07	34.62	12.28	35.15	317	23	P	H
	*	5300	99.17	-	-	87.42	34.62	12.28	35.15	317	23	A	H
		5352.96	51.2	-22.8	74	39.13	34.69	12.53	35.15	317	23	P	H
		5352.24	45.87	-8.13	54	33.8	34.69	12.53	35.15	317	23	A	H
		5092.4	50.11	-23.89	74	39	34.34	11.9	35.13	265	29	P	V
		5111.65	41.15	-12.85	54	29.98	34.36	11.95	35.14	265	29	A	V
	*	5300	103.27	-	-	91.52	34.62	12.28	35.15	265	29	P	V
	*	5300	95.88	-	-	84.13	34.62	12.28	35.15	265	29	A	V
		5352.96	50.98	-23.02	74	38.91	34.69	12.53	35.15	265	29	P	V
		5352	44.13	-9.87	54	32.06	34.69	12.53	35.15	265	29	A	V



802.11a CH 64 5320MHz	*	5320	106.6	-	-	94.7	34.64	12.41	35.15	331	23	P	H
	*	5320	99.31	-	-	87.41	34.64	12.41	35.15	331	23	A	H
		5372.8	53.17	-20.83	74	41.08	34.71	12.53	35.15	331	23	P	H
		5372.32	45.31	-8.69	54	33.22	34.71	12.53	35.15	331	23	A	H
													H
													H
	*	5320	104.38	-	-	92.48	34.64	12.41	35.15	269	33	P	V
	*	5320	96.03	-	-	84.13	34.64	12.41	35.15	269	33	A	V
		5372.16	49.93	-24.07	74	37.84	34.71	12.53	35.15	269	33	P	V
		5372.32	44.2	-9.8	54	32.11	34.71	12.53	35.15	269	33	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	43.85	-24.35	68.2	47.05	37.32	17.98	59.18	100	0	P	H
		15780	45.59	-28.41	74	38.88	40.62	22.41	56.68	100	0	P	H
													H
													H
		10520	44.74	-23.46	68.2	47.94	37.32	17.98	59.18	100	0	P	V
		15780	46.95	-27.05	74	40.24	40.62	22.41	56.68	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	43.46	-30.54	74	46.37	37.42	18.06	59.08	100	0	P	H
		15900	44.99	-29.01	74	37.91	40.72	22.53	56.58	100	0	P	H
													H
													H
		10600	44.28	-29.72	74	47.19	37.42	18.06	59.08	100	0	P	V
		15900	46.03	-27.97	74	38.95	40.72	22.53	56.58	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	44.86	-29.14	74	47.65	37.47	18.09	59.03	100	0	P	H
		15960	46.02	-27.98	74	38.73	40.77	22.61	56.53	100	0	P	H
													H
													H
		10640	44.56	-29.44	74	47.35	37.47	18.09	59.03	100	0	P	V
		15960	45.48	-28.52	74	38.19	40.77	22.61	56.53	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5033.95	50.2	-23.8	74	39.23	34.25	11.85	35.13	310	22	P	H
		5071.4	41.38	-12.62	54	30.32	34.29	11.9	35.13	310	22	A	H
	*	5260	106.42	-	-	94.84	34.57	12.16	35.15	310	22	P	H
	*	5260	99.06	-	-	87.48	34.57	12.16	35.15	310	22	A	H
		5436.48	50.31	-23.69	74	38.03	34.81	12.63	35.16	310	22	P	H
		5459.76	41.17	-12.83	54	28.87	34.83	12.63	35.16	310	22	A	H
		5098.35	49.94	-24.06	74	38.84	34.34	11.9	35.14	318	32	P	V
		5086.45	41.11	-12.89	54	30.02	34.32	11.9	35.13	318	32	A	V
	*	5260	103.37	-	-	91.79	34.57	12.16	35.15	318	32	P	V
	*	5260	96.37	-	-	84.79	34.57	12.16	35.15	318	32	A	V
		5380.56	49.65	-24.35	74	37.41	34.74	12.65	35.15	318	32	P	V
		5459.04	41.3	-12.7	54	29	34.83	12.63	35.16	318	32	A	V
802.11n HT20 CH 60 5300MHz		5103.25	49.78	-24.22	74	38.63	34.34	11.95	35.14	304	21	P	H
		5115.85	41.78	-12.22	54	30.61	34.36	11.95	35.14	304	21	A	H
	*	5300	106.25	-	-	94.5	34.62	12.28	35.15	304	21	P	H
	*	5300	98.76	-	-	87.01	34.62	12.28	35.15	304	21	A	H
		5353.2	50.3	-23.7	74	38.23	34.69	12.53	35.15	304	21	P	H
		5351.52	44.95	-9.05	54	32.88	34.69	12.53	35.15	304	21	A	H
		5124.95	49.69	-24.31	74	38.49	34.39	11.95	35.14	312	30	P	V
		5103.25	41.06	-12.94	54	29.91	34.34	11.95	35.14	312	30	A	V
	*	5300	103.57	-	-	91.82	34.62	12.28	35.15	312	30	P	V
	*	5300	96.86	-	-	85.11	34.62	12.28	35.15	312	30	A	V
		5412.48	50.71	-23.29	74	38.44	34.78	12.65	35.16	312	30	P	V
		5351.76	43.75	-10.25	54	31.68	34.69	12.53	35.15	312	30	A	V



802.11n HT20 CH 64 5320MHz	*	5320	106.2	-	-	94.3	34.64	12.41	35.15	302	20	P	H
	*	5320	99.06	-	-	87.16	34.64	12.41	35.15	302	20	A	H
		5371.84	50.34	-23.66	74	38.25	34.71	12.53	35.15	302	20	P	H
		5371.68	45.03	-8.97	54	32.94	34.71	12.53	35.15	302	20	A	H
													H
													H
	*	5320	103.36	-	-	91.46	34.64	12.41	35.15	328	30	P	V
	*	5320	96.59	-	-	84.69	34.64	12.41	35.15	328	30	A	V
		5376.8	50.77	-23.23	74	38.68	34.71	12.53	35.15	328	30	P	V
		5372	43.26	-10.74	54	31.17	34.71	12.53	35.15	328	30	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	44.58	-23.62	68.2	47.78	37.32	17.98	59.18	100	0	P	H
		15780	46.16	-27.84	74	39.45	40.62	22.41	56.68	100	0	P	H
													H
													H
		10520	45.46	-22.74	68.2	48.66	37.32	17.98	59.18	100	0	P	V
		15780	45.76	-28.24	74	39.05	40.62	22.41	56.68	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	44.57	-29.43	74	47.48	37.42	18.06	59.08	100	0	P	H
		15900	45.11	-28.89	74	38.03	40.72	22.53	56.58	100	0	P	H
													H
													H
		10600	44.78	-29.22	74	47.69	37.42	18.06	59.08	100	0	P	V
		15900	46.56	-27.44	74	39.48	40.72	22.53	56.58	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	43.99	-30.01	74	46.78	37.47	18.09	59.03	100	0	P	H
		15960	48.33	-25.67	74	41.04	40.77	22.61	56.53	100	0	P	H
													H
													H
		10640	45.33	-28.67	74	48.12	37.47	18.09	59.03	100	0	P	V
		15960	45.79	-28.21	74	38.5	40.77	22.61	56.53	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	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5455.12	52.33	-21.67	74	40.03	34.83	12.63	35.16	312	26	P	H
		5463.92	48.3	-19.9	68.2	36	34.85	12.61	35.16	312	26	P	H
		5447.76	44.18	-9.82	54	31.88	34.83	12.63	35.16	312	26	A	H
	*	5500	105.22	-	-	92.87	34.9	12.61	35.16	312	26	P	H
	*	5500	98.33	-	-	85.98	34.9	12.61	35.16	312	26	A	H
													H
		5448.72	49.59	-24.41	74	37.29	34.83	12.63	35.16	291	33	P	V
		5469.36	48.33	-19.87	68.2	36.03	34.85	12.61	35.16	291	33	P	V
		5447.6	42.8	-11.2	54	30.5	34.83	12.63	35.16	291	33	A	V
	*	5500	101.54	-	-	89.19	34.9	12.61	35.16	291	33	P	V
	*	5500	94.28	-	-	81.93	34.9	12.61	35.16	291	33	A	V
													V
802.11a CH 116 5580MHz		5383.6	49.08	-24.92	74	36.84	34.74	12.65	35.15	303	30	P	H
		5461.6	47.98	-20.22	68.2	35.7	34.83	12.61	35.16	303	30	P	H
		5450.56	40.97	-13.03	54	28.67	34.83	12.63	35.16	303	30	A	H
	*	5580	106.03	-	-	93.63	35	12.58	35.18	303	30	P	H
	*	5580	98.84	-	-	86.44	35	12.58	35.18	303	30	A	H
		5727.515	49.46	-18.74	68.2	36.72	35.21	12.73	35.2	303	30	P	H
		5385.76	49.76	-24.24	74	37.52	34.74	12.65	35.15	239	33	P	V
		5470	49.45	-18.75	68.2	37.15	34.85	12.61	35.16	239	33	P	V
		5451.76	40.86	-13.14	54	28.56	34.83	12.63	35.16	239	33	A	V
	*	5580	102.49	-	-	90.09	35	12.58	35.18	239	33	P	V
	*	5580	94.98	-	-	82.58	35	12.58	35.18	239	33	A	V
		5759.96	53.35	-14.85	68.2	40.52	35.26	12.79	35.22	239	33	P	V



802.11a CH 140 5700MHz	*	5700	105.96	-	-	93.32	35.17	12.67	35.2	319	36	P	H
	*	5700	98.72	-	-	86.08	35.17	12.67	35.2	319	36	A	H
		5752.04	52.07	-16.13	68.2	39.23	35.26	12.79	35.21	319	36	P	H
													H
													H
													H
	*	5700	102.26	-	-	89.62	35.17	12.67	35.2	228	39	P	V
	*	5700	95.45	-	-	82.81	35.17	12.67	35.2	228	39	A	V
		5760.04	53.4	-14.8	68.2	40.57	35.26	12.79	35.22	228	39	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	46.03	-27.97	74	47.87	37.9	18.43	58.6	100	0	P	H
		16500	46.46	-21.74	68.2	37.53	41.8	22.93	56.1	100	0	P	H
													H
													H
		11000	44.59	-29.41	74	46.43	37.9	18.43	58.6	100	0	P	V
		16500	47.05	-21.15	68.2	38.12	41.8	22.93	56.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.97	-28.03	74	46.93	38.07	18.58	58.17	100	0	P	H
		16740	47.16	-21.04	68.2	37.83	41.94	23.07	55.96	100	0	P	H
													H
													H
		11160	45.4	-28.6	74	46.36	38.07	18.58	58.17	100	0	P	V
		16740	48.07	-20.13	68.2	38.74	41.94	23.07	55.96	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	46.4	-27.6	74	46.39	38.3	18.8	57.56	100	0	P	H
		17100	47.96	-20.24	68.2	38.17	41.96	23.28	55.8	100	0	P	H
													H
													H
		11400	45.12	-28.88	74	45.11	38.3	18.8	57.56	100	0	P	V
		17100	47.02	-21.18	68.2	37.23	41.96	23.28	55.8	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5448.08	51.99	-22.01	74	39.69	34.83	12.63	35.16	314	25	P	H
		5462.16	49.42	-18.78	68.2	37.14	34.83	12.61	35.16	314	25	P	H
		5448.24	46.12	-7.88	54	33.82	34.83	12.63	35.16	314	25	A	H
	*	5500	105.2	-	-	92.85	34.9	12.61	35.16	314	25	P	H
	*	5500	98.95	-	-	86.6	34.9	12.61	35.16	314	25	A	H
													H
		5448.24	49.86	-24.14	74	37.56	34.83	12.63	35.16	293	32	P	V
		5462.48	48.5	-19.7	68.2	36.22	34.83	12.61	35.16	293	32	P	V
		5448.24	44.08	-9.92	54	31.78	34.83	12.63	35.16	293	32	A	V
	*	5500	101.29	-	-	88.94	34.9	12.61	35.16	293	32	P	V
	*	5500	94.66	-	-	82.31	34.9	12.61	35.16	293	32	A	V
													V
802.11n HT20 CH 116 5580MHz		5426.32	50.29	-23.71	74	38.04	34.78	12.63	35.16	302	29	P	H
		5464.72	48.18	-20.02	68.2	35.88	34.85	12.61	35.16	302	29	P	H
		5439.04	40.96	-13.04	54	28.68	34.81	12.63	35.16	302	29	A	H
	*	5580	106.08	-	-	93.68	35	12.58	35.18	302	29	P	H
	*	5580	98.71	-	-	86.31	35	12.58	35.18	302	29	A	H
		5732.87	50.16	-18.04	68.2	37.43	35.21	12.73	35.21	302	29	P	H
		5451.76	49.96	-24.04	74	37.66	34.83	12.63	35.16	242	40	P	V
		5463.04	47.58	-20.62	68.2	35.28	34.85	12.61	35.16	242	40	P	V
		5449.6	40.92	-13.08	54	28.62	34.83	12.63	35.16	242	40	A	V
	*	5580	102.4	-	-	90	35	12.58	35.18	242	40	P	V
	*	5580	94.51	-	-	82.11	35	12.58	35.18	242	40	A	V
		5759.96	51.7	-16.5	68.2	38.87	35.26	12.79	35.22	242	40	P	V



802.11n HT20 CH 140 5700MHz	*	5700	106.08	-	-	93.44	35.17	12.67	35.2	321	33	P	H
	*	5700	98.72	-	-	86.08	35.17	12.67	35.2	321	33	A	H
		5752.28	53.26	-14.94	68.2	40.42	35.26	12.79	35.21	321	33	P	H
													H
													H
													H
	*	5700	102.78	-	-	90.14	35.17	12.67	35.2	229	38	P	V
	*	5700	95.19	-	-	82.55	35.17	12.67	35.2	229	38	A	V
		5759.96	53.29	-14.91	68.2	40.46	35.26	12.79	35.22	229	38	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	45.59	-28.41	74	47.43	37.9	18.43	58.6	100	0	P	H
		16500	45.86	-22.34	68.2	36.93	41.8	22.93	56.1	100	0	P	H
													H
													H
		11000	47.89	-26.11	74	49.73	37.9	18.43	58.6	100	0	P	V
		16500	46.06	-22.14	68.2	37.13	41.8	22.93	56.1	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	46.62	-27.38	74	47.58	38.07	18.58	58.17	100	0	P	H
		16740	48.36	-19.84	68.2	39.03	41.94	23.07	55.96	100	0	P	H
													H
													H
		11160	44.85	-29.15	74	45.81	38.07	18.58	58.17	100	0	P	V
		16740	47.77	-20.43	68.2	38.44	41.94	23.07	55.96	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	46.84	-27.16	74	46.83	38.3	18.8	57.56	100	0	P	H
		17100	47.58	-20.62	68.2	37.79	41.96	23.28	55.8	100	0	P	H
													H
													H
		11400	46.36	-27.64	74	46.35	38.3	18.8	57.56	100	0	P	V
		17100	47.92	-20.28	68.2	38.13	41.96	23.28	55.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz	*	5720	106.45	-	-	93.71	35.21	12.73	35.2	320	33	P	H
	*	5720	99.19	-	-	86.45	35.21	12.73	35.2	320	33	A	H
													H
													H
													H
													H
	*	5720	103.08	-	-	90.34	35.21	12.73	35.2	240	37	P	V
	*	5720	96.07	-	-	83.33	35.21	12.73	35.2	240	37	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	45.5	-28.5	74	45.35	38.33	18.84	57.47	100	0	P	H
		17160	46.7	-21.5	68.2	36.9	41.87	23.33	55.8	100	0	P	H
													H
													H
		11440	46.43	-27.57	74	46.28	38.33	18.84	57.47	100	0	P	V
		17160	46.51	-21.69	68.2	36.71	41.87	23.33	55.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5720	106.96	-	-	94.22	35.21	12.73	35.2	320	33	P	H
	*	5720	98.78	-	-	86.04	35.21	12.73	35.2	320	33	A	H
													H
													H
													H
													H
	*	5720	102.91	-	-	90.17	35.21	12.73	35.2	240	41	P	V
	*	5720	95.87	-	-	83.13	35.21	12.73	35.2	240	41	A	V
													V
													V
													V
													V
Remark - No other spurious found. - All results are PASS against Peak and Average limit line.													

Band 3 - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	45.69	-28.31	74	45.54	38.33	18.84	57.47	100	0	P	H
		17160	45.93	-22.27	68.2	36.13	41.87	23.33	55.8	100	0	P	H
													H
													H
		11440	45.38	-28.62	74	45.23	38.33	18.84	57.47	100	0	P	V
		17160	46.89	-21.31	68.2	37.09	41.87	23.33	55.8	100	0	P	V
													V
													V
Remark - No other spurious found. - All results are PASS against Peak and Average limit line.													

Emission below 1GHz (Band 1)

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 LF		30.54	26.6	-13.4	40	32.16	24.09	1.71	31.36	-	-	P	H
		47.01	25.11	-14.89	40	39.44	15.48	1.71	31.57	-	-	P	H
		112.89	24.16	-19.34	43.5	36.21	17.06	2.34	31.55	-	-	P	H
		849.5	32.91	-13.09	46	29.28	28.76	5.2	30.56	-	-	P	H
		912.5	34.06	-11.94	46	29.98	29	5.33	30.52	-	-	P	H
		957.3	35.7	-10.3	46	29.74	30.75	5.4	30.51	100	0	P	H
													H
													H
													H
													H
													H
													H
		30	29.38	-10.62	40	34.42	24.6	1.71	31.35	-	-	P	V
		80.76	27.35	-12.65	40	43.42	13.28	2.11	31.58	-	-	P	V
		166.35	27.57	-15.93	43.5	40.38	15.86	2.62	31.49	-	-	P	V
		817.3	32.77	-13.23	46	30.35	27.8	4.98	30.58	-	-	P	V
		860.7	33.88	-12.12	46	29.89	29.03	5.27	30.55	-	-	P	V
		955.2	36.42	-9.58	46	30.57	30.64	5.4	30.51	100	0	P	V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz (Band 2)

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30.27	26.46	-13.54	40	31.5	24.6	1.71	31.35	-	-	P	H
		84.54	21.99	-18.01	40	37.59	13.75	2.11	31.58	-	-	P	H
		285.15	24.88	-21.12	46	34	18.84	3.28	31.32	-	-	P	H
		760.6	32.34	-13.66	46	30.06	27.84	4.88	30.63	-	-	P	H
		860	33.76	-12.24	46	29.84	29.03	5.2	30.55	-	-	P	H
		950.3	35.04	-10.96	46	29.44	30.39	5.4	30.51	100	0	P	H
													H
													H
													H
													H
													H
													H
		48.9	30.46	-9.54	40	45.22	15.07	1.71	31.6	100	0	P	V
		150.69	24.69	-18.81	43.5	36.37	17.02	2.62	31.5	-	-	P	V
		263.28	29.5	-16.5	46	38.06	19.43	3.28	31.35	-	-	P	V
		788.6	32.88	-13.12	46	30.32	27.97	4.98	30.6	-	-	P	V
		899.2	33.51	-12.49	46	29.76	28.73	5.27	30.52	-	-	P	V
		947.5	35.11	-10.89	46	29.68	30.23	5.4	30.52	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz (Band 3)

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preampl	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)
802.11n HT20 LF		30	27.12	-12.88	40	32.16	24.6	1.71	31.35	-	-	P	H
		117.48	24.08	-19.42	43.5	35.85	17.33	2.34	31.54	-	-	P	H
		264.63	26.69	-19.31	46	35.33	19.35	3.28	31.35	-	-	P	H
		853	33.57	-12.43	46	29.86	28.83	5.2	30.55	-	-	P	H
		886.6	34.05	-11.95	46	30.2	28.84	5.27	30.53	-	-	P	H
		954.5	35.36	-10.64	46	29.56	30.59	5.4	30.51	100	0	P	H
													H
													H
													H
													H
													H
													H
		46.47	30.98	-9.02	40	44.9	15.89	1.71	31.57	100	0	P	V
		81.03	28.27	-11.73	40	44.22	13.4	2.11	31.58	-	-	P	V
		284.61	33.17	-12.83	46	42.31	18.82	3.28	31.32	-	-	P	V
		801.9	32.45	-13.55	46	29.9	27.94	4.98	30.59	-	-	P	V
		887.3	34.5	-11.5	46	30.66	28.83	5.27	30.53	-	-	P	V
		955.9	35.61	-10.39	46	29.71	30.69	5.4	30.51	-	-	P	V
													V
													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	Peak or Average
H/V	Horizontal or Vertical



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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang and Stan Hsieh	Temperature :	17~21°C
		Relative Humidity :	48~58%

Note symbol

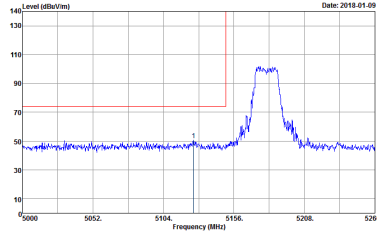
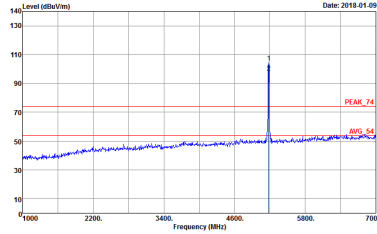
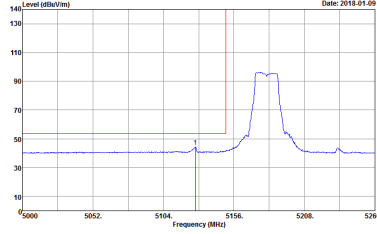
-L	Low channel location
-R	High channel location



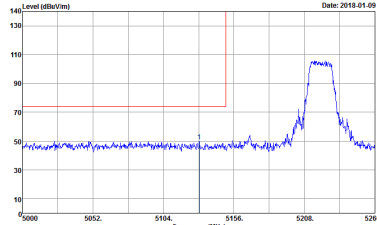
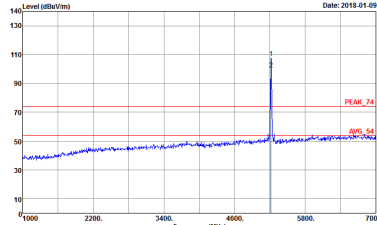
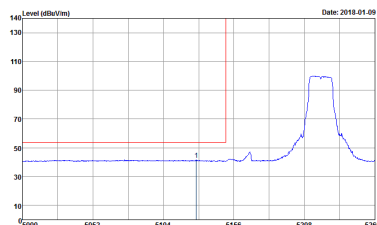
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1	Site : 03CH07-4HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1
Avg.	Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1	Left blank

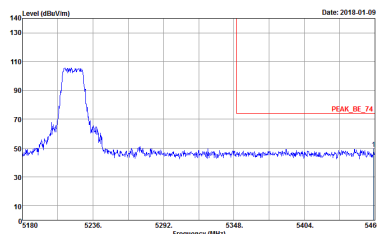
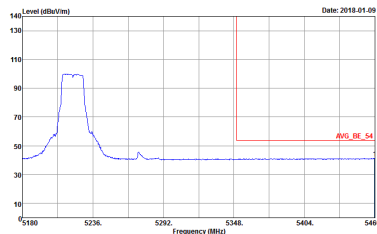


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 1	Left blank

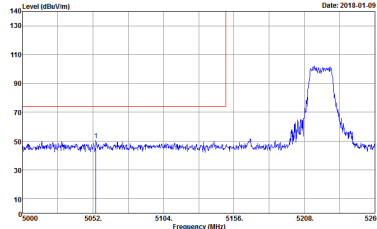
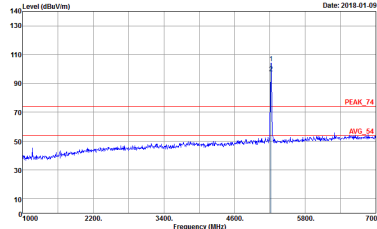
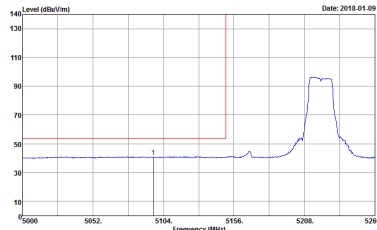


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	Left blank

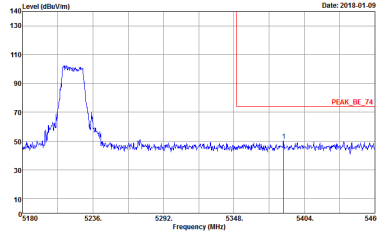
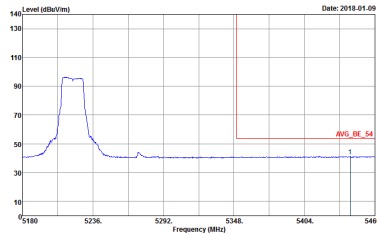


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 7N0405 : 2	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 7N0405 : 2	Left blank



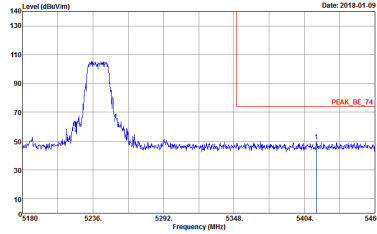
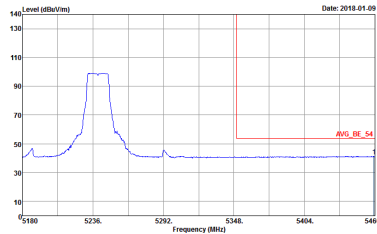
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	Left blank



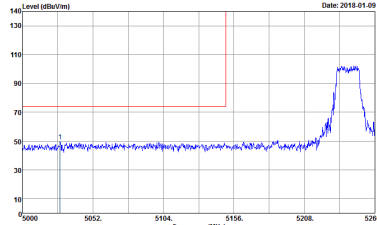
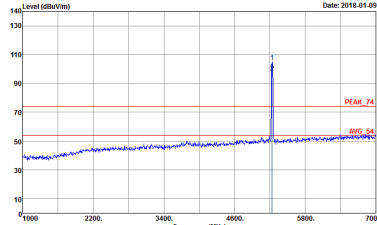
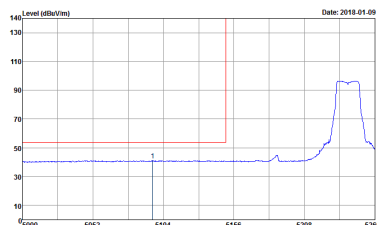
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 2	Left blank



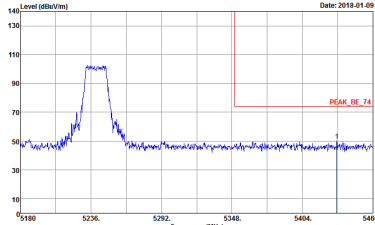
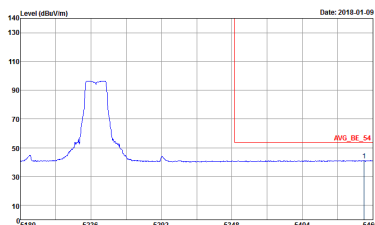
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3
Avg.	Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 7N0405 : 3	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 7N0405 : 3	Left blank

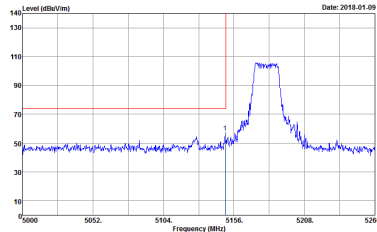
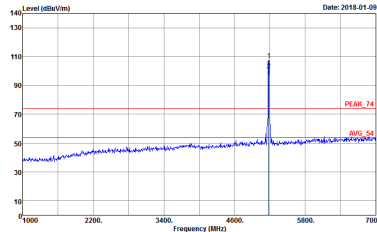
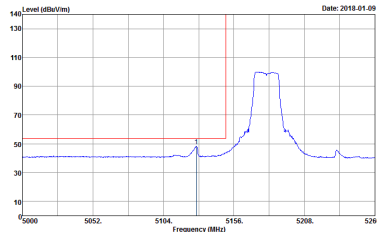


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	Left blank

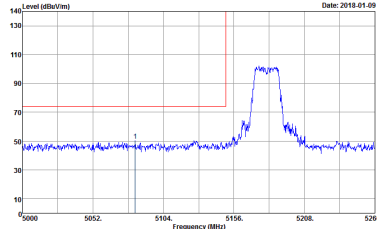
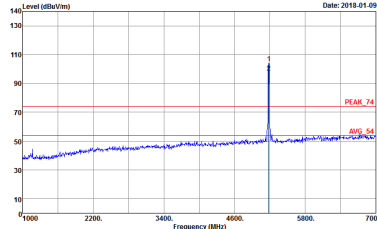
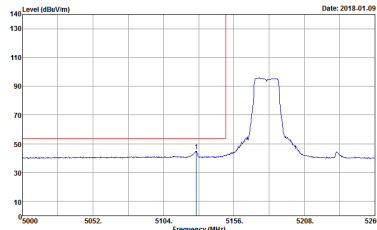


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 3	Left blank

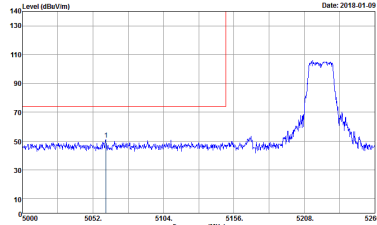
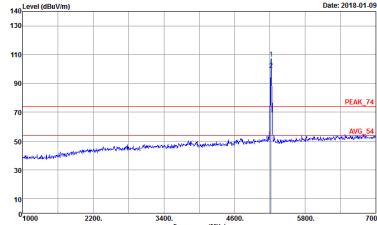
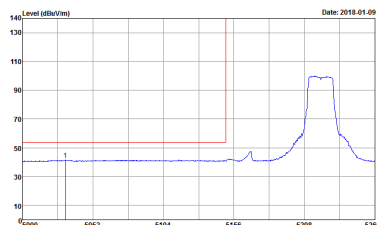
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

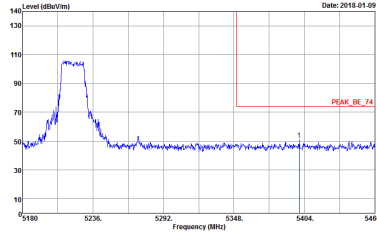
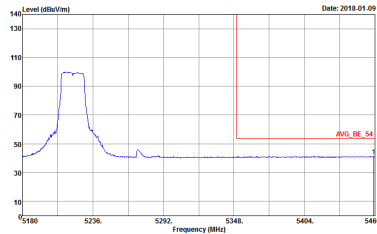
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 4	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 4
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 4	Left blank



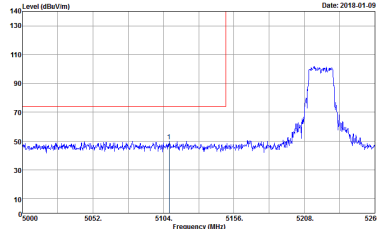
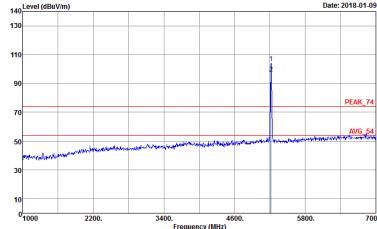
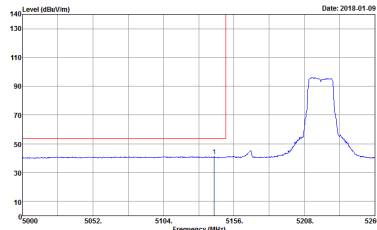
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 4	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 4
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 4	Left blank

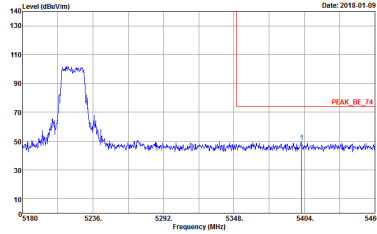
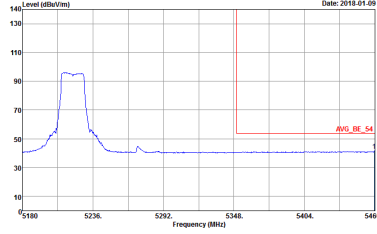


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5	Left blank

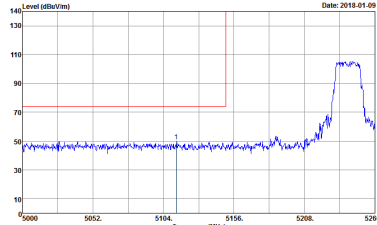
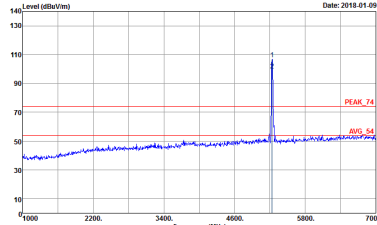
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 5	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 5	Left blank

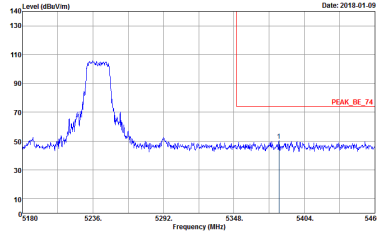
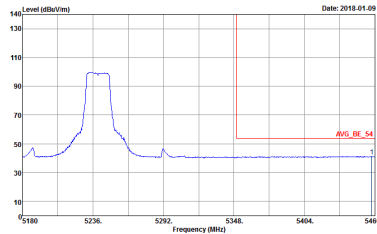


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 5	Left blank

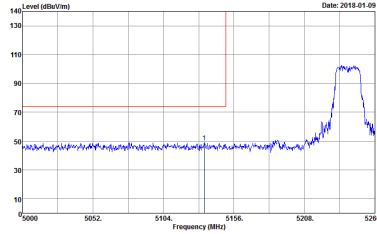
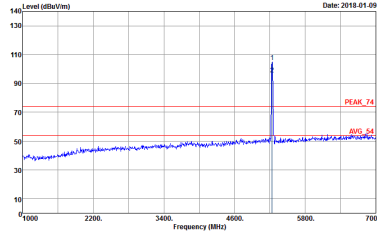
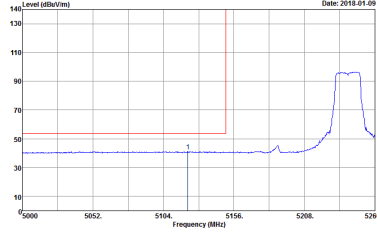
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 5	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 5	Left blank



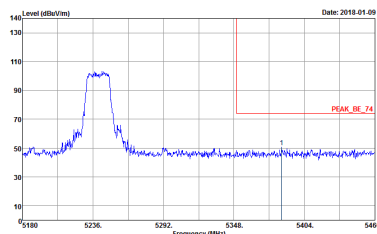
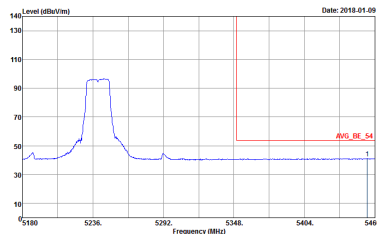
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 7N0405 Date: 2018-01-09	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak Mode : 7N0405 Date: 2018-01-09	Left blank



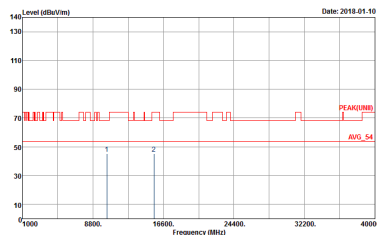
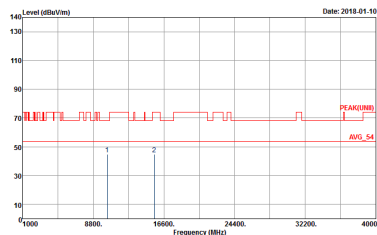
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 6	Left blank



Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 1	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 1

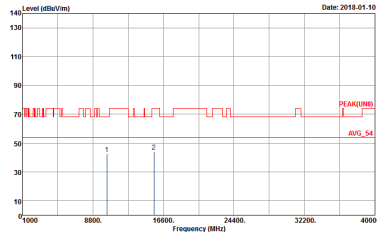
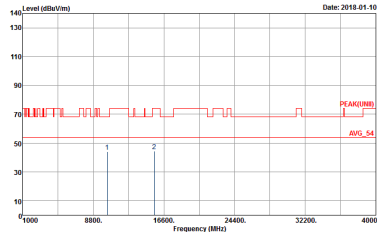


WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 2	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 2



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 3	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 3

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.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 4	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 4



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : S	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : S



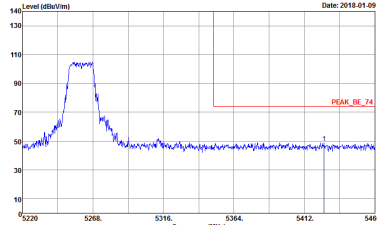
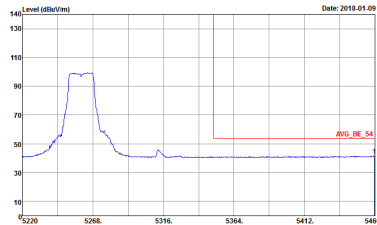
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : c	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : c



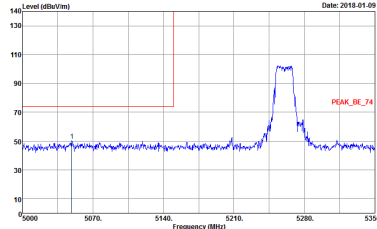
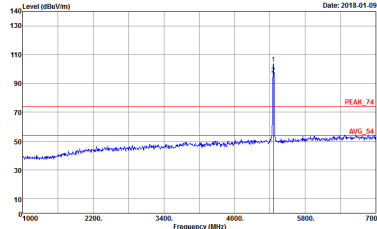
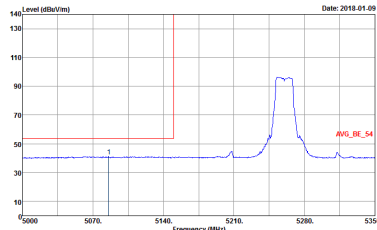
Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 7N0405 Mode : 8	Site : 03CH07-4HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 7N0405 Mode : 8
Avg.	Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Project : 7N0405 Mode : 8	Left blank

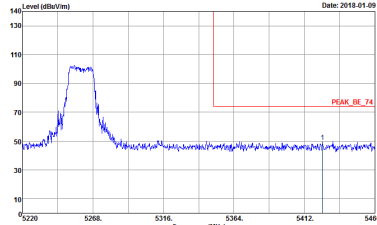
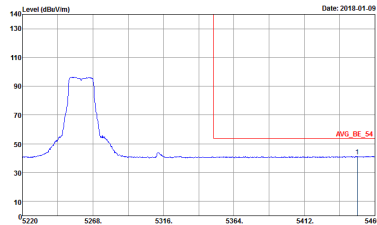


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	Left blank

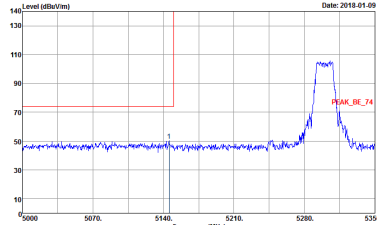
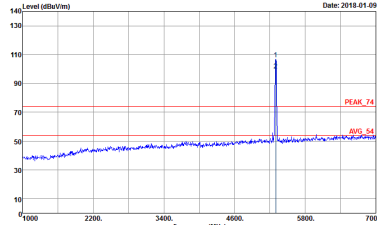
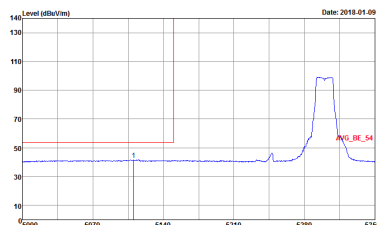


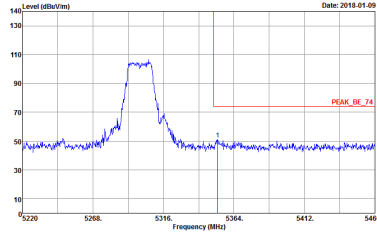
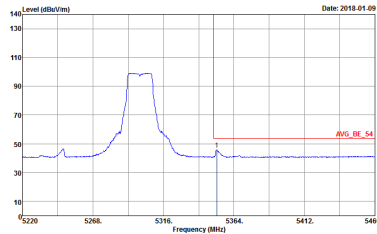
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	 Site : 03CH07-4HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	Left blank



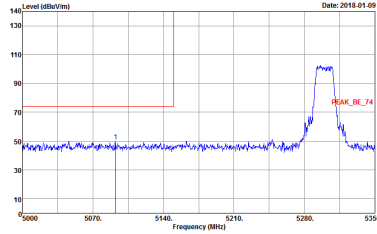
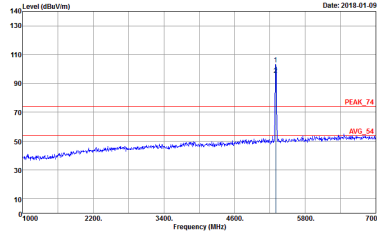
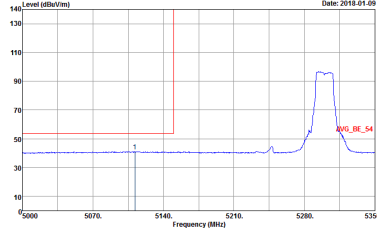
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 8	Left blank



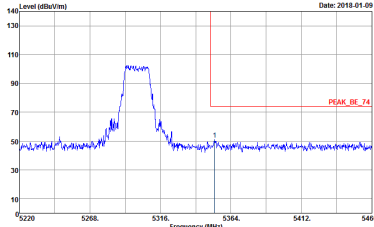
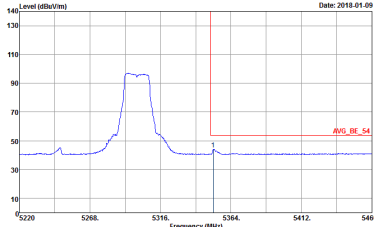
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 9	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 9	Left blank

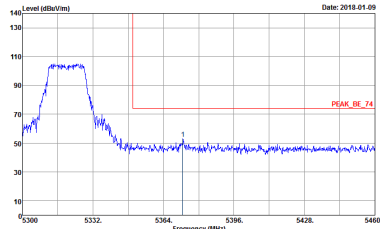
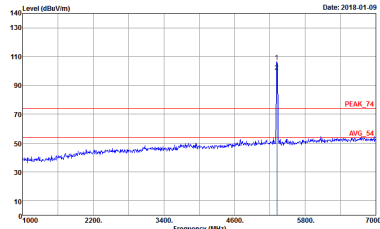
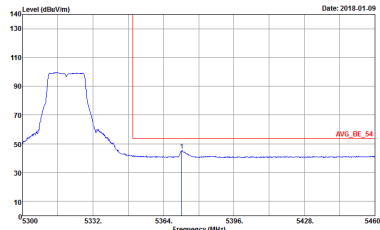


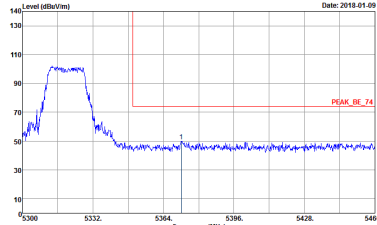
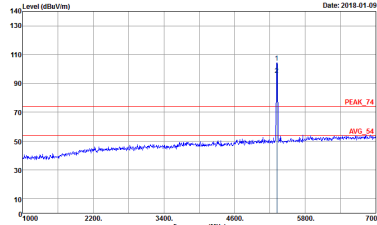
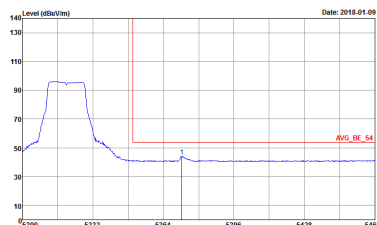
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	 Site : 03CH07-4V Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	Left blank



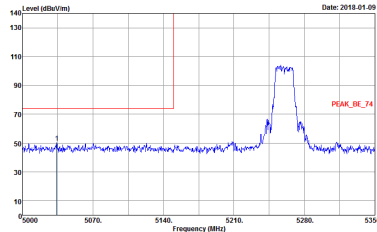
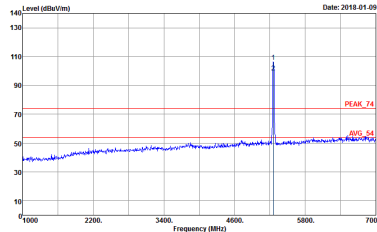
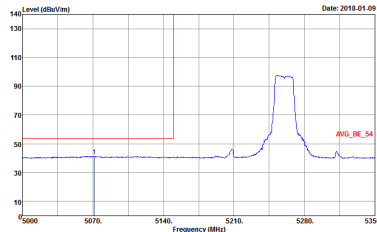
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4H Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	Left blank
Avg.	 Site : 03CH07-4H Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 9	Left blank

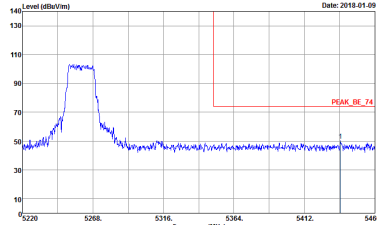
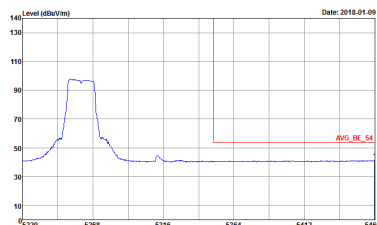


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10	Left blank

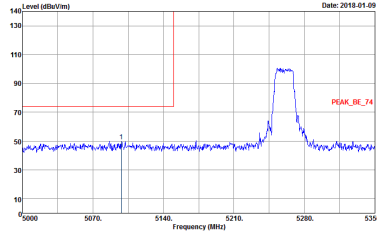
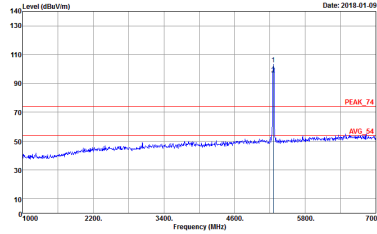
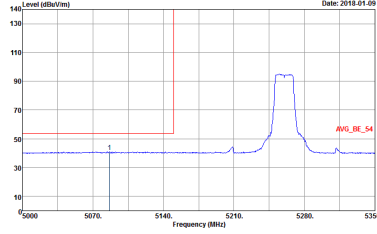
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10	 Site : 03CH07-4V Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10
	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 10	Left blank

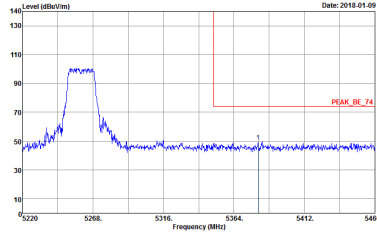
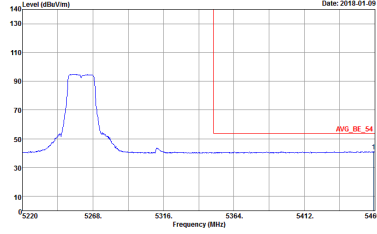
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11	Left blank

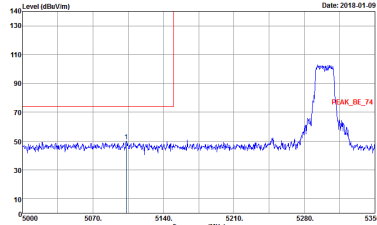
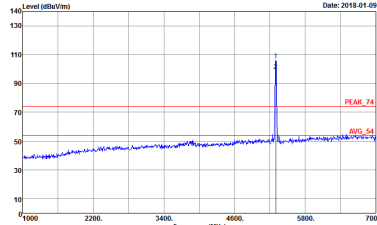
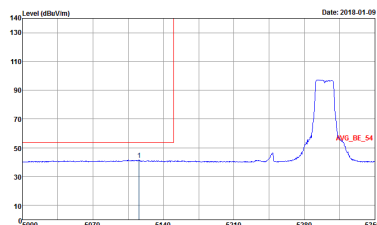
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11	Left blank
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11	Left blank



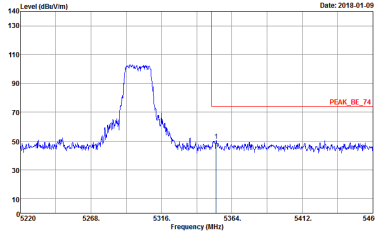
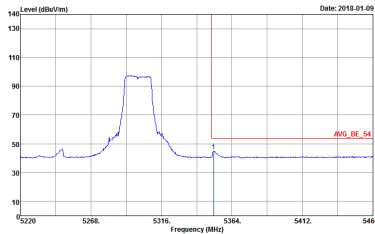
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 11	 Site : 03CH07-4V Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 11
Avg.	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 11	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 11	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 11	Left blank

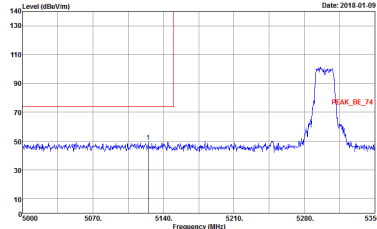
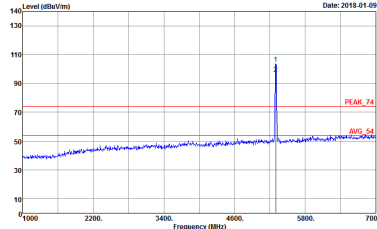
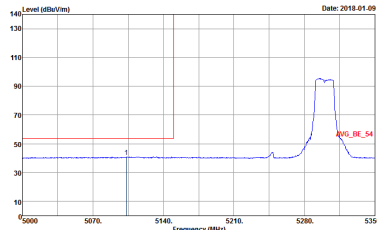


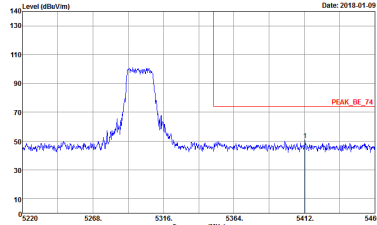
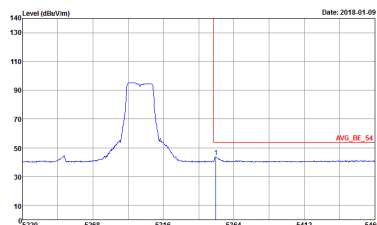
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	Left blank



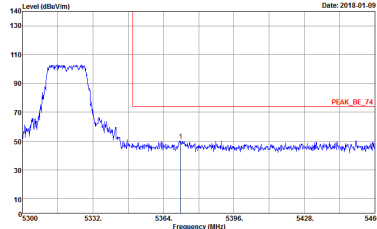
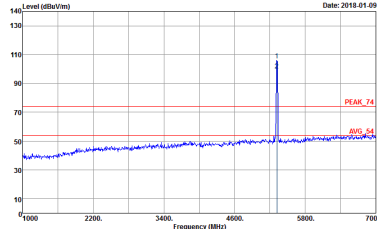
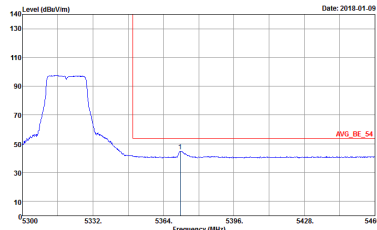
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-4HV Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	Left blank
Avg.	 Site : 03CH07-4HV Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	Left blank

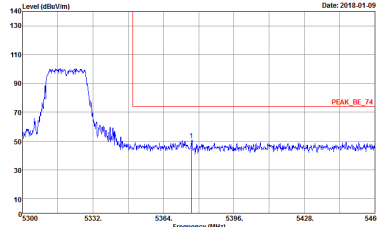
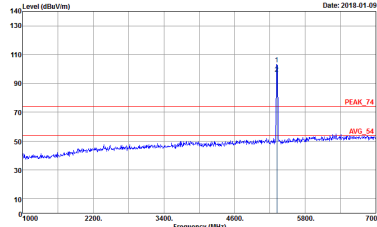
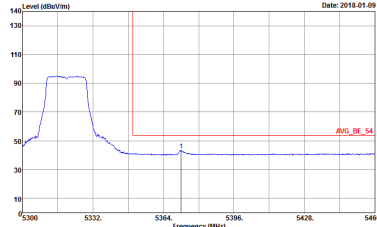


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 12	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 12	Left blank
Avg.	 Site : 03CH07-4HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 12	Left blank

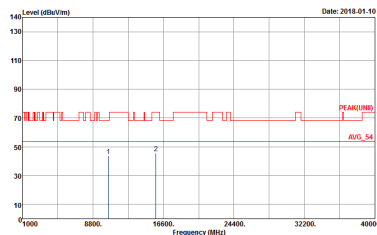
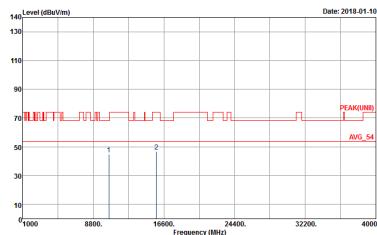


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4Y Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 13	 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 13
Avg.	 Site : 03CH07-4Y Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 13	Left blank

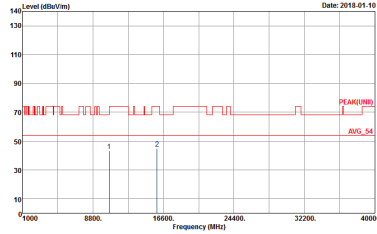
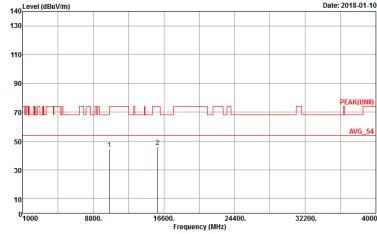
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-4V Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 13	 Site : 03CH07-4V Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 13
	 Site : 03CH07-4V Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 13	Left blank



Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : B	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : B

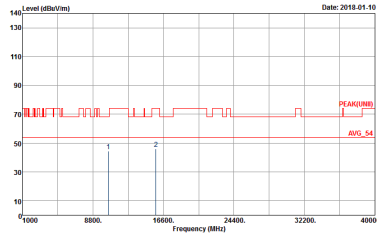
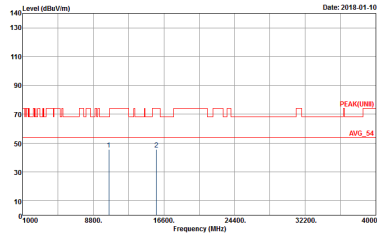


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 9	 Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 9



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 10	Site : 03CH07-4V Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 10

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.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 11	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 11



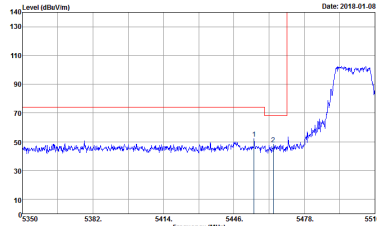
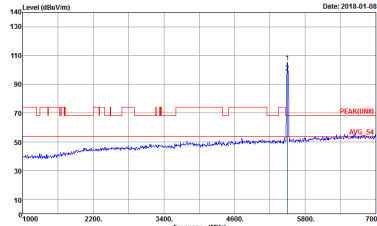
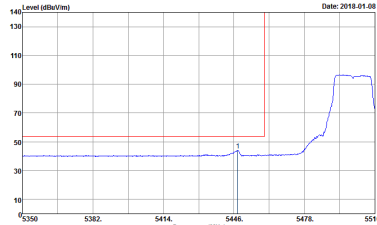
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 12	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 12



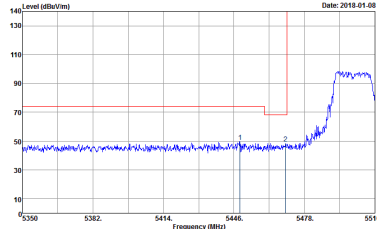
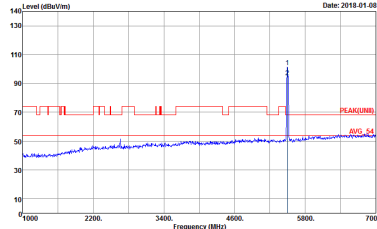
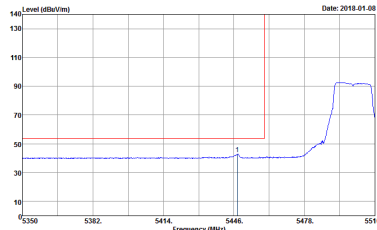
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 13	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 13



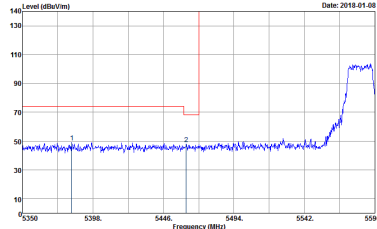
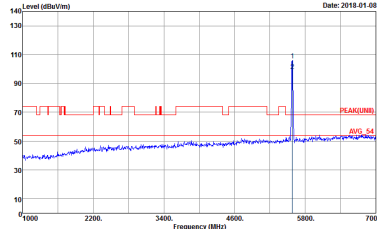
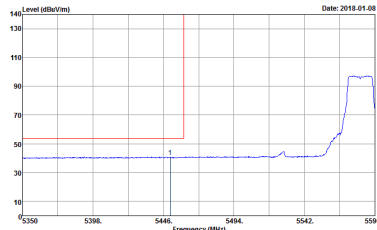
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

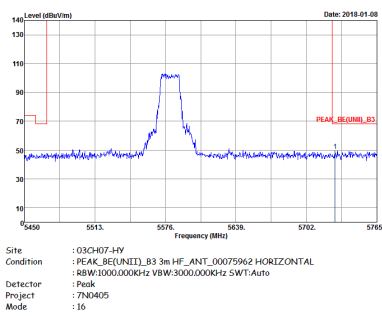
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-4HY Condition : PEAK_BE(UNIT1)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 7N0405 15	 Site : 03CH07-4HY Condition : PEAK(UNIT1) 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 7N0405 15
Avg.	 Site : 03CH07-4HY Condition : AVG_BE(UNIT1)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 7N0405 15	Left blank



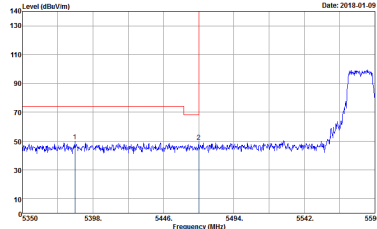
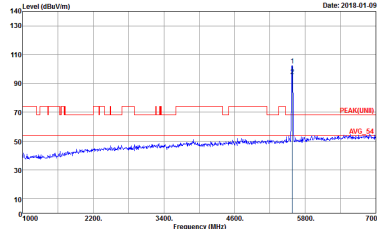
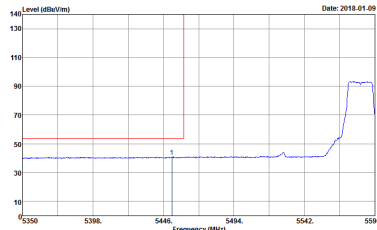
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 15	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 15
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 15	Left blank

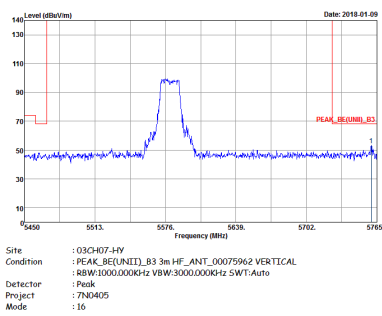


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 16	Left blank

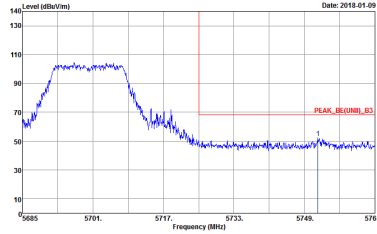
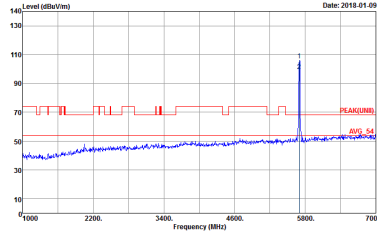
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank



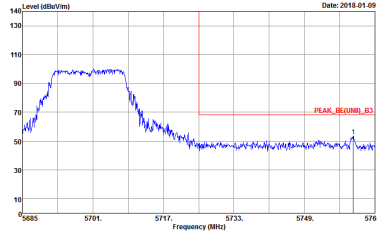
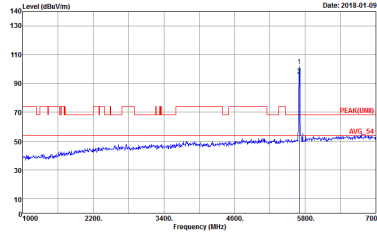
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 16	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 16
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 16	Left blank

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



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNI)_B3 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 17	 Site : 03CH07-HY Condition : PEAK_F(UNI)_B3 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 17



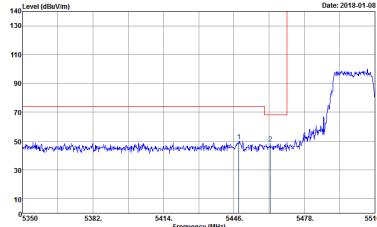
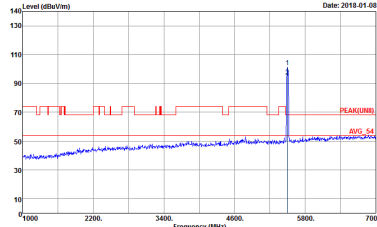
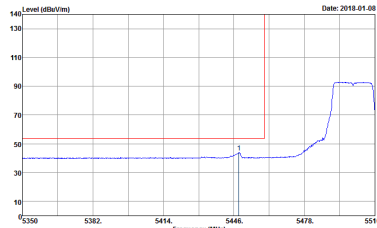
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-1HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 17	 Site : 03CH07-1HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 17



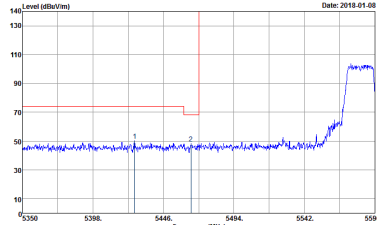
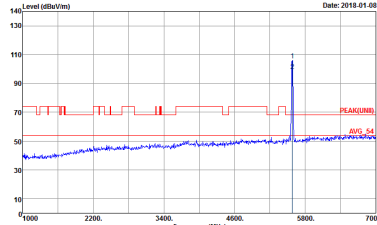
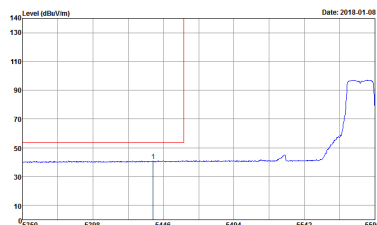
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

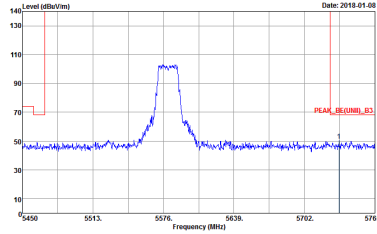
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 19	Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 19
Avg.	Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 19	Left blank



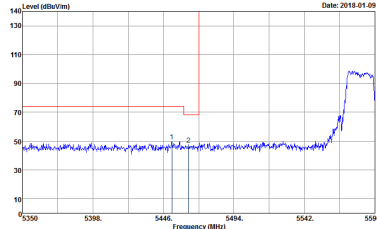
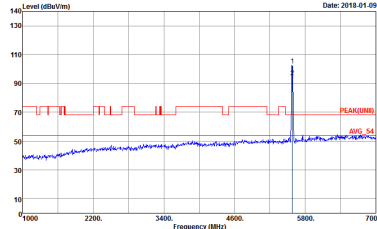
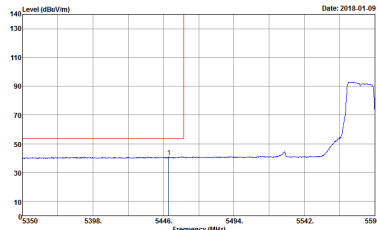
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 19	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 19	Left blank



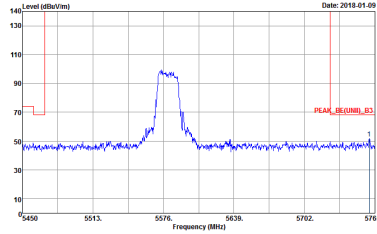
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 20	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 20
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 20	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 20	Left blank

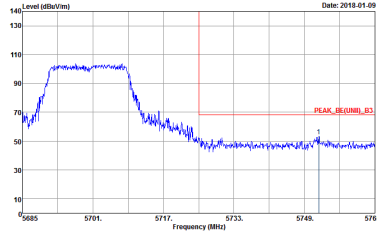
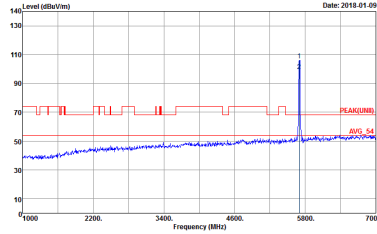


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 20	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 20
Avg.	 Site : 03CH07-HY Condition : AVG_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : 20	Left blank

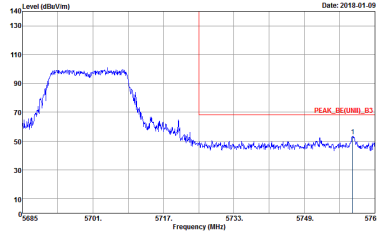
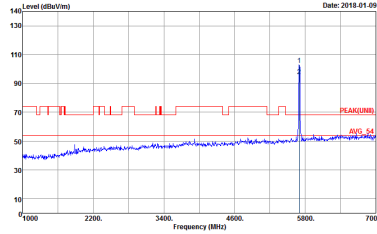


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 20	Left blank



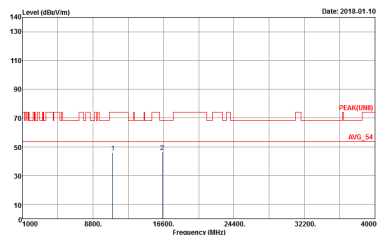
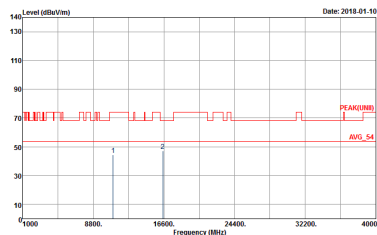
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : Z1	 Site : 03CH07-HY Condition : PEAK(UNIT)_B3 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : Z1



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.	 Site : 03CH07-4Y Condition : PEAK_BE(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : Z1	 Site : 03CH07-4Y Condition : PEAK(UNIT)_B3 3m HF_ANT_00075962 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 7N0405 Mode : Z1



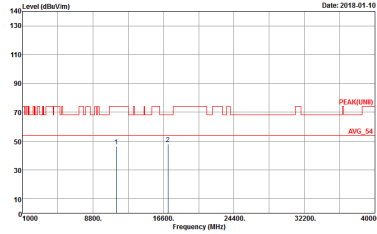
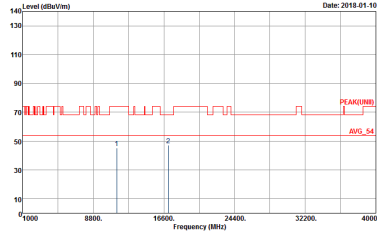
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 15	 Site : 03CH07-1FY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 15

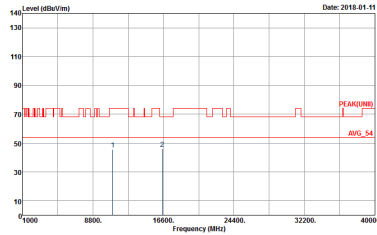
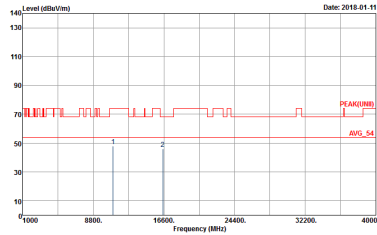


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 16	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 16



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 17	 Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 17

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.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 19	 Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 19

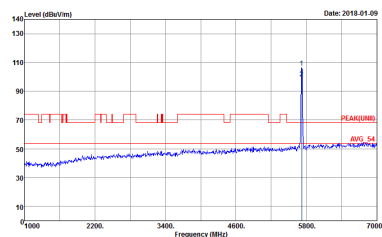
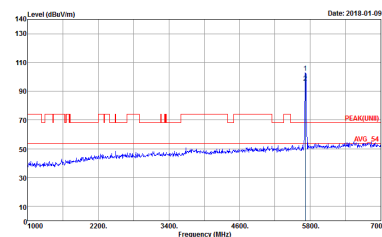


WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND005 Mode : 20	Site : 03CH07-4Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND005 Mode : 20



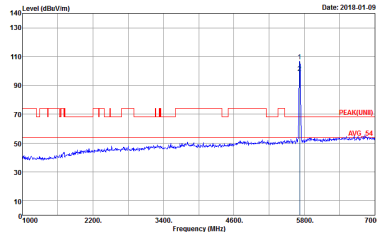
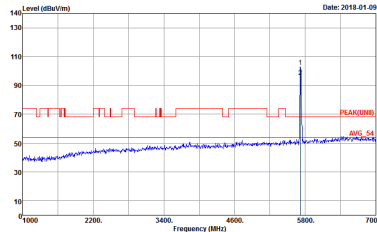
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7ND405 Mode : 21	Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7ND405 Mode : 21

Band 3 - Straddle Channel
WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-1FY Condition : PEAK(UM) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 1B	 Site : 03CH07-1FY Condition : PEAK(UM) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : 1B



Band 3 – Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 7N0405 Mode : ZF	 Site : 03CH07-HY Condition : PEAK(UNIT) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 7N0405 Mode : ZF

Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-11Y Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 1B	Site : 03CH07-11Y Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 1B



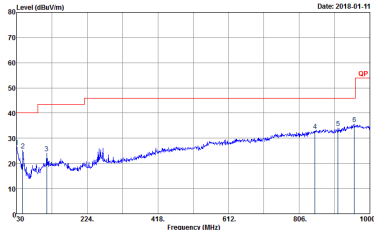
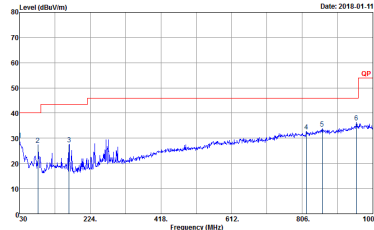
Band 3 – Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 7N0405 Mode : 22	Site : 03CH07-HY Condition : PEAK(UNII) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 7N0405 Mode : 22

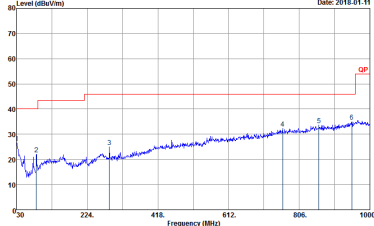
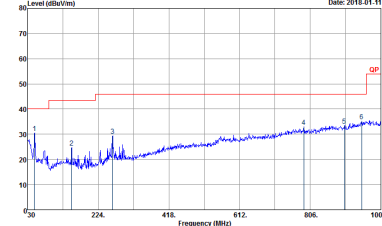


Emission below 1GHz (Band 1)

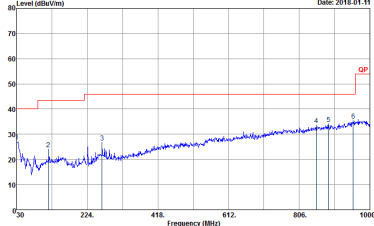
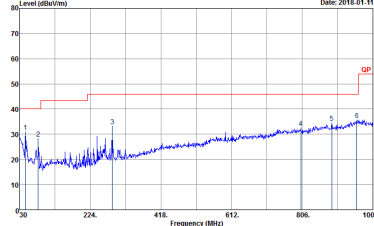
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 7N0405 Mode : 7	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 7N0405 Mode : 7

Emission below 1GHz (Band 2)
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 7N0405 Mode : 14	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 7N0405 Mode : 14

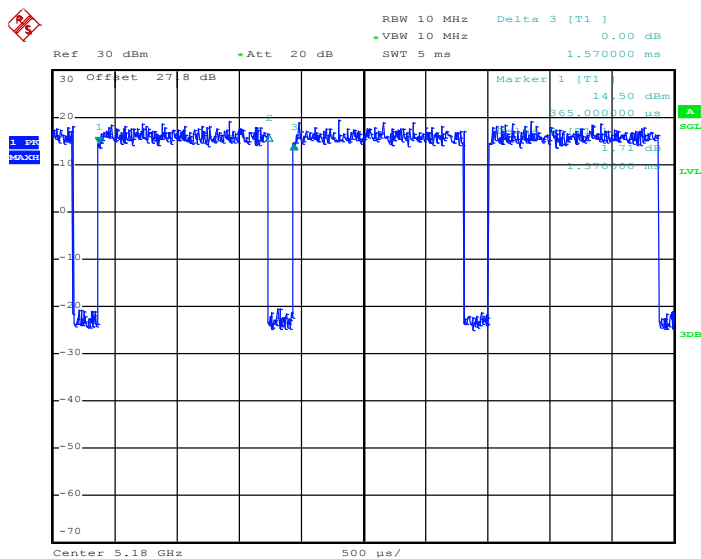
Emission below 1GHz (Band 3)
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 7N0405 Mode : 23	 Site : 03CH07-11Y Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 7N0405 Mode : 23

Appendix E. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
802.11a	87.26	1370.00	0.73	1kHz	0.59
5GHz 802.11n HT20	86.49	1280.00	0.78	1kHz	0.63

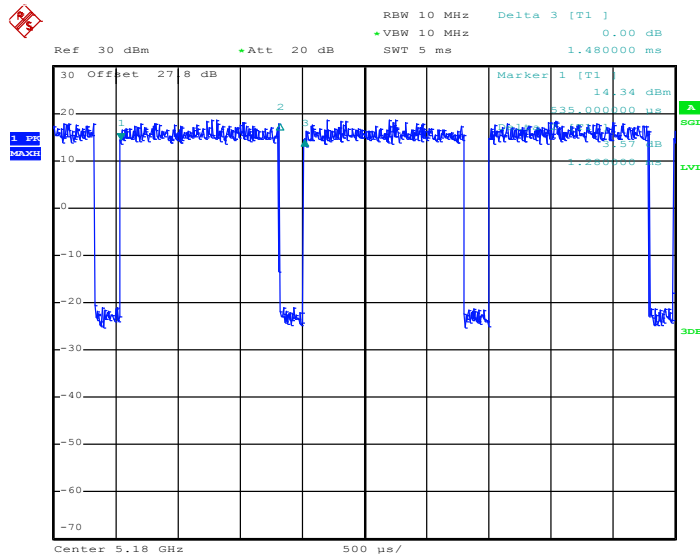
802.11a



Date: 28.DEC.2017 16:12:07



802.11n HT20



Date: 28.DEC.2017 16:13:48