



FCC RF Test Report

APPLICANT : Zebra Technologies Corporation
EQUIPMENT : Hub
BRAND NAME : ZEBRA
MODEL NAME : MPACT-HUBFXD
FCC ID : UZ7MPACTHUBFXD
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Sep. 22, 2016 and testing was completed on Oct. 19, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR692215C	Rev. 01	Initial issue of report	Dec. 08, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 1.04 dB at 5351.040 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.70 dB at 0.502 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.2 Manufacturer

Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Hub
Brand Name	ZEBRA
Model Name	MPACT-HUBFXD
FCC ID	UZ7MPACTHUBFXD
EUT supports Radios application	WLAN 11a/b/g/n HT20 Bluetooth LE
Wifi Code version	6.0.109.9
Wifi Tools version	9.0.0.341360
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Specification of Accessories				
Adapter	Brand Name	ZEBRA	Model Number	PS000081A01
USB Cable	Brand Name	ZEBRA	P/N	25-MCXUSB-01R

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	<EUT with J301 Antenna> <5180 MHz ~ 5240 MHz> 802.11a : 15.90 dBm / 0.0389 W 802.11n HT20 : 15.94 dBm / 0.0393 W <5260 MHz ~ 5320 MHz> 802.11a : 15.96 dBm / 0.0394 W 802.11n HT20 : 15.89 dBm / 0.0388 W <5500 MHz ~ 5700 MHz > 802.11a : 15.73 dBm / 0.0374 W 802.11n HT20 : 15.74 dBm / 0.0375 W <EUT with J300 Antenna> <5180 MHz ~ 5240 MHz> 802.11a : 16.20 dBm / 0.0417 W 802.11n HT20 : 16.10 dBm / 0.0407 W <5260 MHz ~ 5320 MHz> 802.11a : 16.29 dBm / 0.0426 W 802.11n HT20 : 16.29 dBm / 0.0426 W <5500 MHz ~ 5700 MHz > 802.11a : 16.10 dBm / 0.0407 W 802.11n HT20 : 16.10 dBm / 0.0407 W
99% Occupied Bandwidth	<EUT with J300 Antenna> 802.11a : 17.90 MHz 802.11n HT20 : 18.50 MHz
Antenna Gain / Gain	<5150 MHz ~ 5250 MHz> Chip Antenna with gain 3.60 dBi <5250 MHz ~ 5350 MHz> Chip Antenna with gain 3.60 dBi <5470 MHz ~ 5725 MHz> Chip Antenna with gain 3.60 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Note:

1. WLAN operation in 5600 MHz ~ 5650 MHz is notched.
2. This device has two kinds of WLAN antenna (J301 Antenna and J300 Antenna), and the J300 has max RF Power. Thus, all tests were performed with J300 Antenna.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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.

1.7 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 v01r03
- 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

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: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

2.1 Carrier Frequency Channel

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

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

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

Note:

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



2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0

AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN Link + Adapter (PS000081A01)
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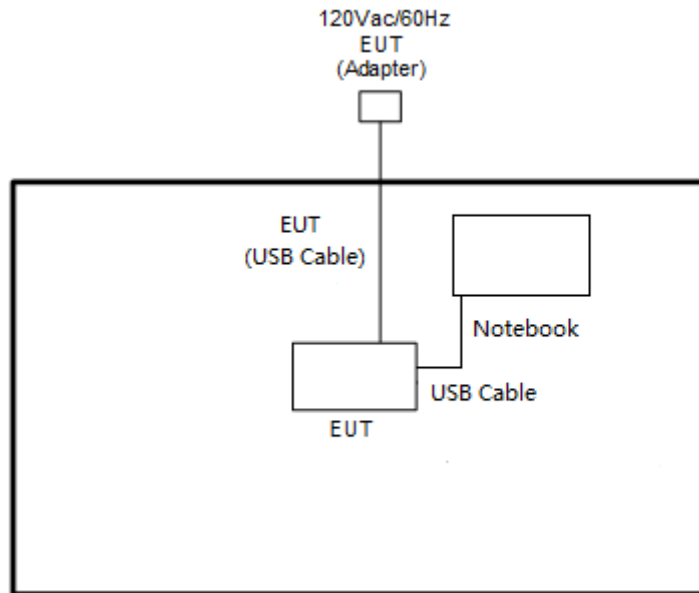
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

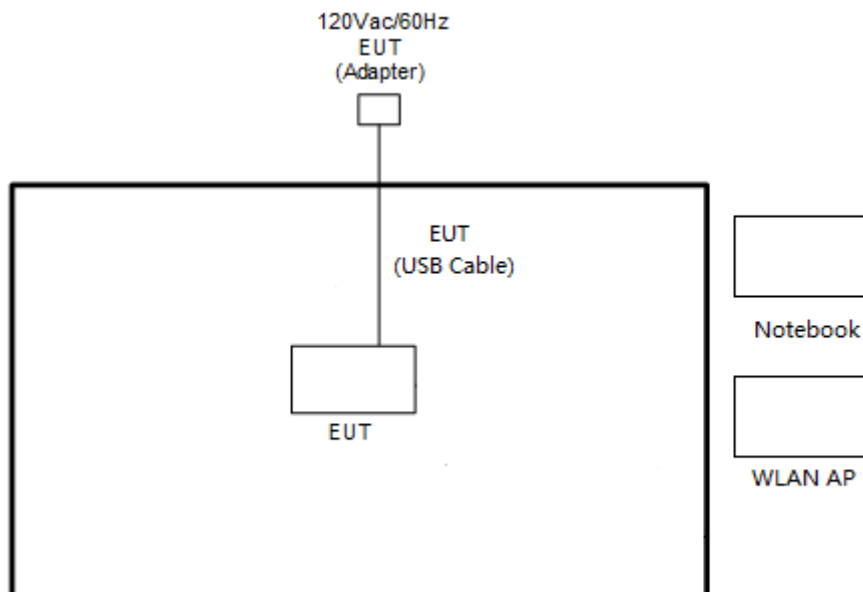
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	ASUS	MS2392	PD97265NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	E335	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, "Tx Tool" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

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.

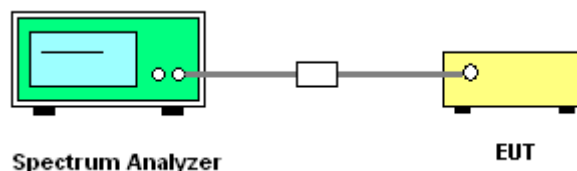
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

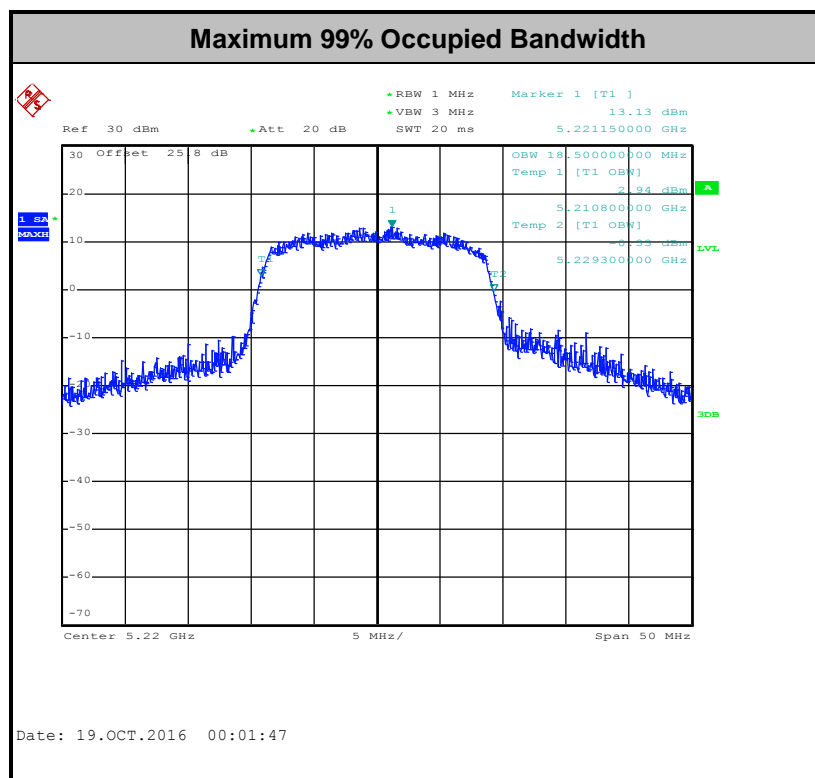
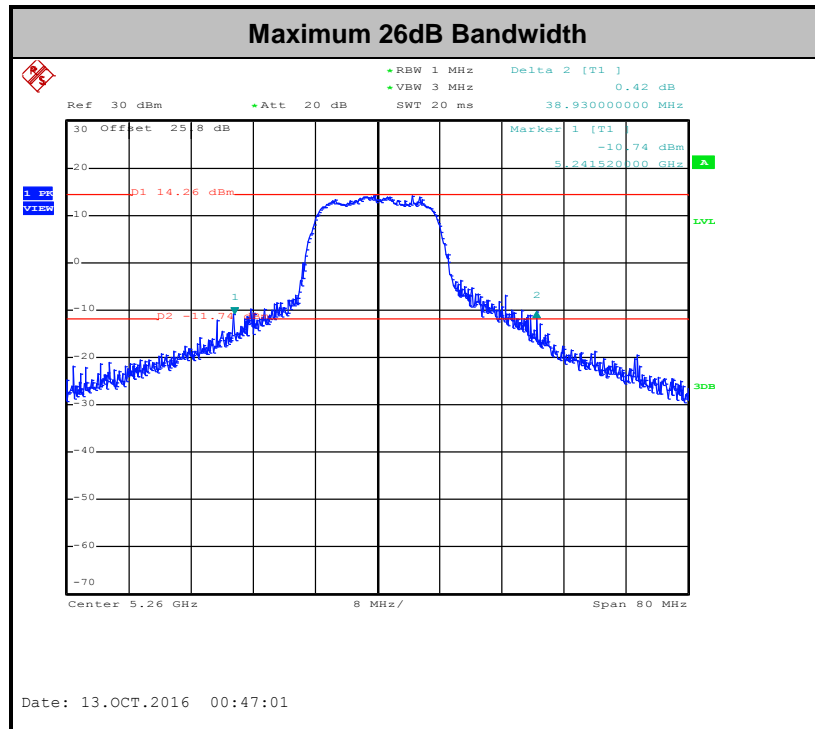
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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) $\geq 3 * \text{RBW}$.
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 Plots

Please refer to Appendix A.





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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

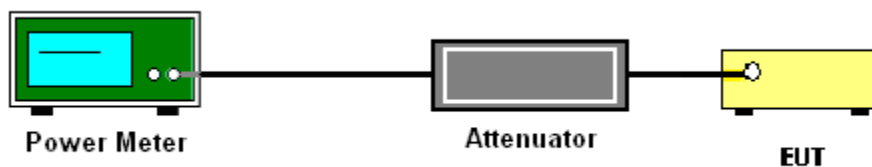
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

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

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

3.2.4 Test Setup

For normal channel:



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

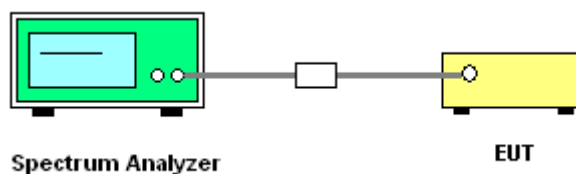
Section F) Maximum power spectral density.

Method SA-2

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

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
 - 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.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

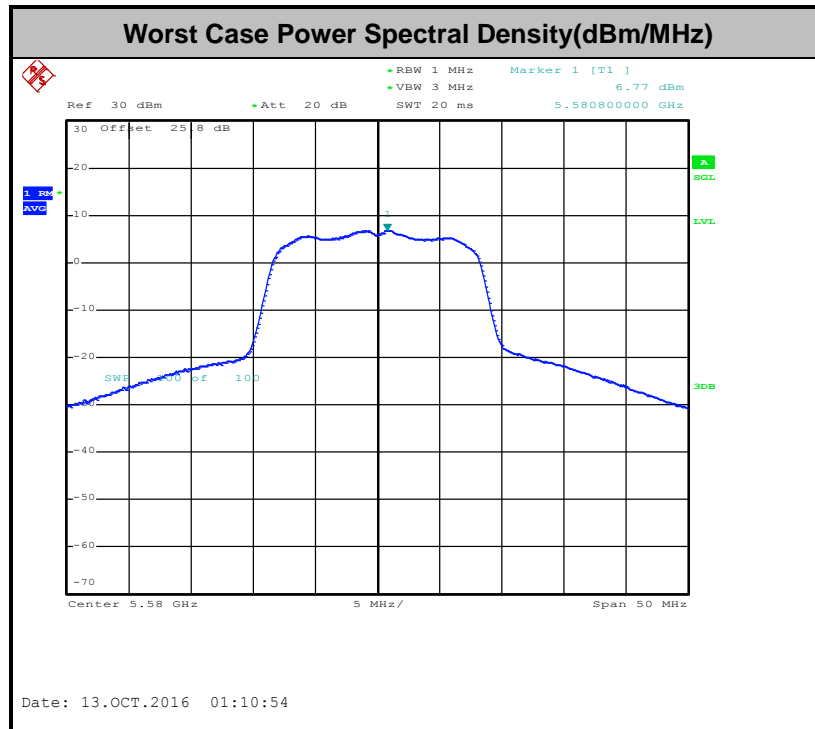
3.3.4 Test Setup





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 Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

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 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part 15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

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

- (3) KDB789033 D01 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

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

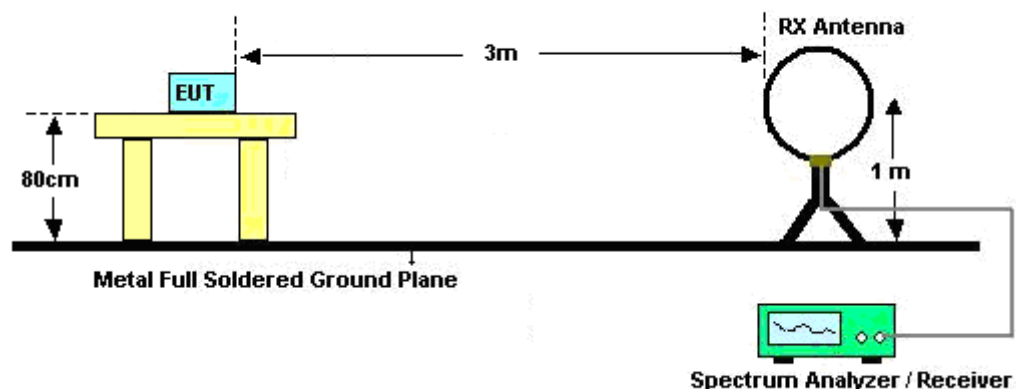
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. 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.

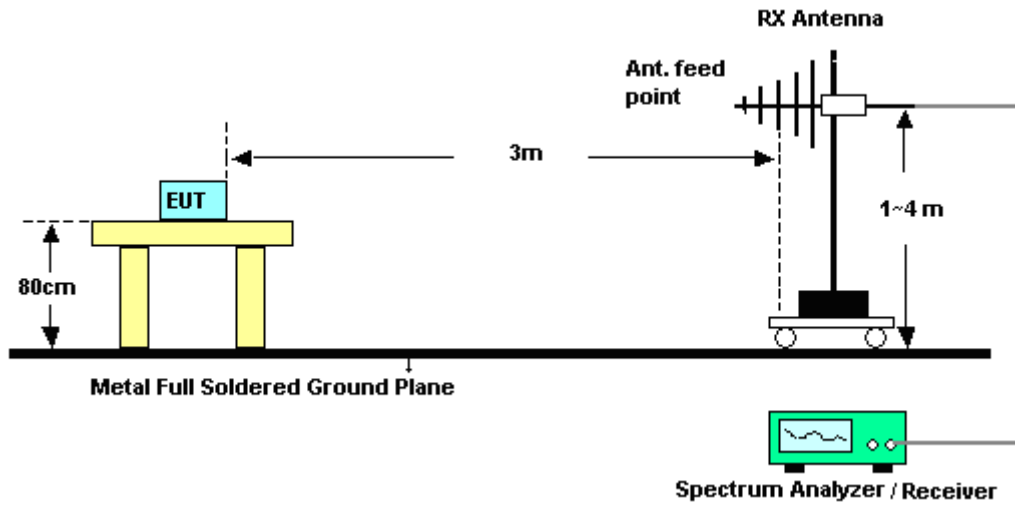
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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

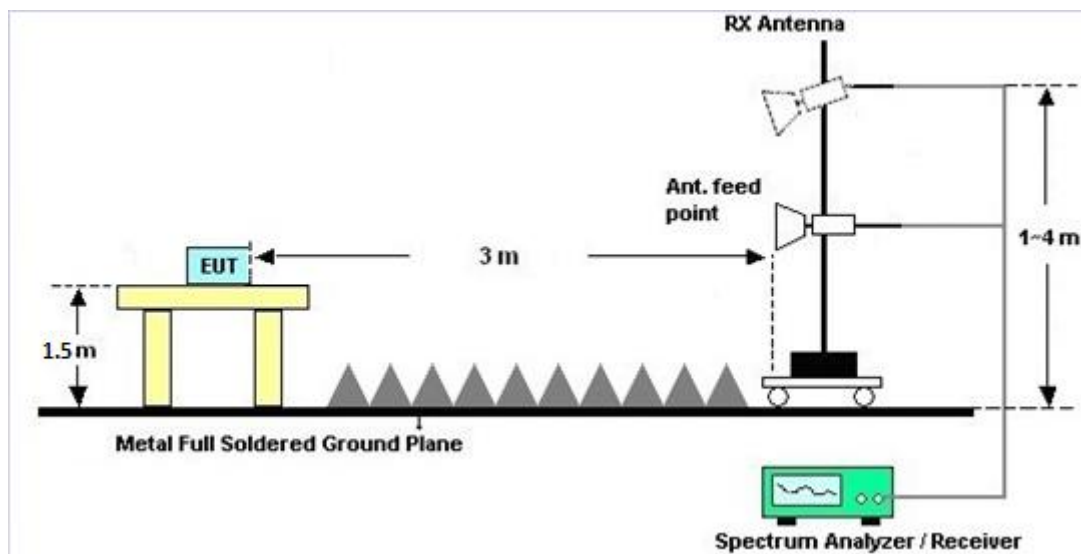
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

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.

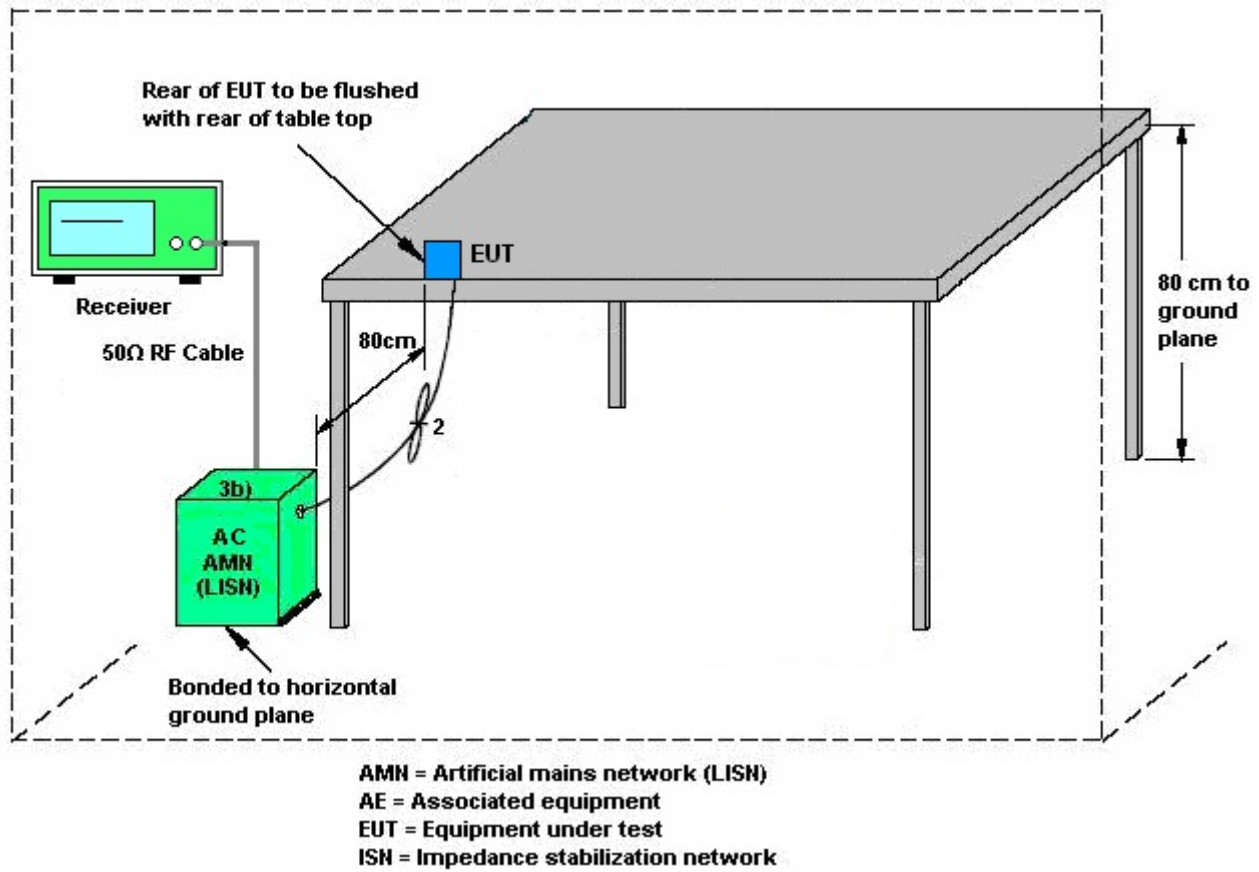
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

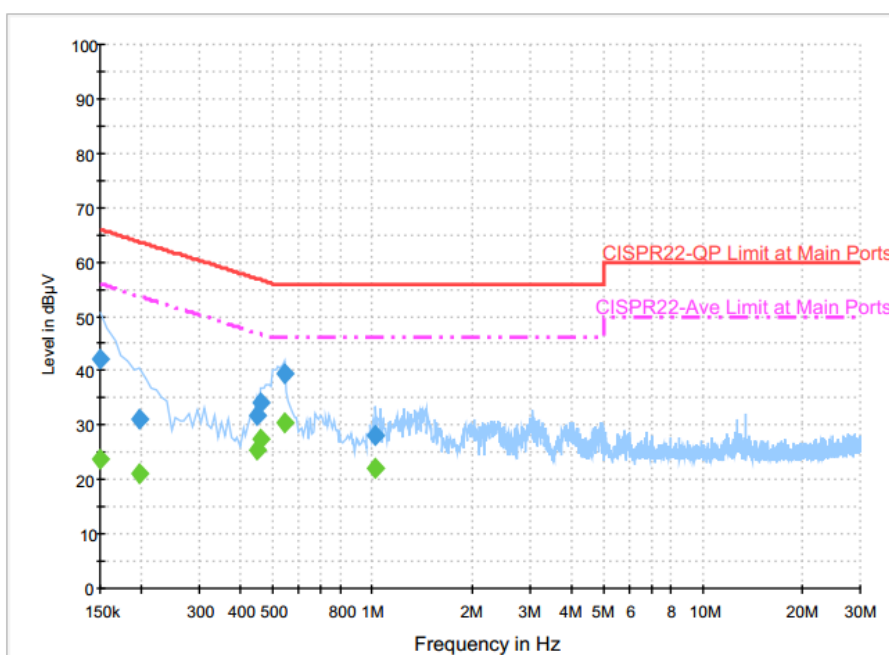
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

Test Mode :	Mode 1	Temperature :	21~24℃
Test Engineer :	Arthur Hsieh	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + WLAN Link + Adapter (PS000081A01)		



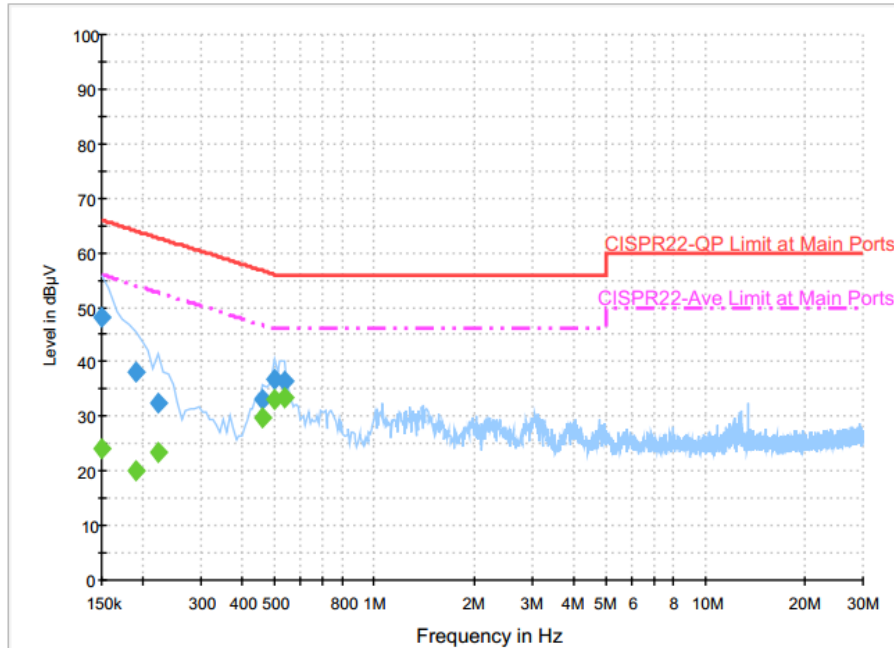
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	42.3	Off	L1	19.6	23.7	66.0
0.198000	31.0	Off	L1	19.6	32.7	63.7
0.446000	31.7	Off	L1	19.6	25.2	56.9
0.462000	34.0	Off	L1	19.6	22.7	56.7
0.542000	39.3	Off	L1	19.6	16.7	56.0
1.022000	28.0	Off	L1	19.7	28.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.8	Off	L1	19.6	32.2	56.0
0.198000	21.0	Off	L1	19.6	32.7	53.7
0.446000	25.5	Off	L1	19.6	21.4	46.9
0.462000	27.3	Off	L1	19.6	19.4	46.7
0.542000	30.4	Off	L1	19.6	15.6	46.0
1.022000	22.0	Off	L1	19.7	24.0	46.0

Test Mode :	Mode 1	Temperature :	21~24°C
Test Engineer :	Arthur Hsieh	Relative Humidity :	51~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN Link + Adapter (PS000081A01)		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	48.2	Off	N	19.6	17.8	66.0
0.190000	38.2	Off	N	19.6	25.8	64.0
0.222000	32.3	Off	N	19.6	30.4	62.7
0.462000	33.1	Off	N	19.6	23.6	56.7
0.502000	36.9	Off	N	19.6	19.1	56.0
0.534000	36.4	Off	N	19.6	19.6	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	24.2	Off	N	19.6	31.8	56.0
0.190000	20.2	Off	N	19.6	33.8	54.0
0.222000	23.5	Off	N	19.6	29.2	52.7
0.462000	29.7	Off	N	19.6	17.0	46.7
0.502000	33.3	Off	N	19.6	12.7	46.0
0.534000	33.3	Off	N	19.6	12.7	46.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

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

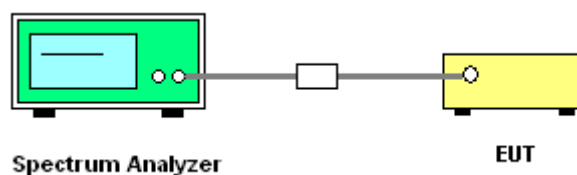
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

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

3.7.2 Measuring Instruments

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

3.7.3 Test Result of Automatically Discontinue Transmission

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



3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

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



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Oct. 06, 2016 ~ Oct. 19, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Oct. 06, 2016 ~ Oct. 19, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Oct. 06, 2016 ~ Oct. 19, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 01, 2016	Oct. 06, 2016 ~ Oct. 19, 2016	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Oct. 06, 2016 ~ Oct. 19, 2016	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 15, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Oct. 15, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Oct. 15, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Oct. 15, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Oct. 15, 2016	Jan. 07, 2017	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Jan. 13, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Jan. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Aug. 18, 2017	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 04, 2015	Sep. 30, 2016 ~ Oct. 05, 2016	Nov. 03, 2016	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Sep. 30, 2016 ~ Oct. 05, 2016	Sep. 01, 2017	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 15, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Apr. 14, 2017	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	Mar. 18, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Mar. 17, 2017	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 19, 2015	Sep. 30, 2016 ~ Oct. 05, 2016	Oct. 18, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Feb. 27, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Feb. 26, 2017	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Sep. 30, 2016 ~ Oct. 05, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Sep. 30, 2016 ~ Oct. 05, 2016	N/A	Radiation (03CH07-HY)
Loop Cable	Rohde & Schwarz	N/A	N/A	9KHz~30MHz	Dec. 03, 2015	Sep. 30, 2016 ~ Oct. 05, 2016	Dec. 02, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Sep. 30, 2016 ~ Oct. 05, 2016	Jun. 13, 2017	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 02, 2015	Sep. 30, 2016 ~ Oct. 05, 2016	Nov. 01, 2016	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.70
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Conducted Test Results

<EUT with J300 Antenna>

Test Engineer:	Derek Hsu	Temperature:	21~25	°C
Test Date:	2016/10/06 ~ 2016/10/19	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	17.45	31.73	-	22.42		
11a	6Mbps	1	44	5220	17.65	38.14	-	22.47		
11a	6Mbps	1	48	5240	17.60	36.64	-	22.46		
HT20	MCS0	1	36	5180	18.25	27.44	-	22.61		
HT20	MCS0	1	44	5220	18.50	38.17	-	22.67		
HT20	MCS0	1	48	5240	18.50	34.56	-	22.67		

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	0.12	14.26	24.00	3.60		Pass
11a	6Mbps	1	44	5220	0.12	16.18	24.00	3.60		Pass
11a	6Mbps	1	48	5240	0.12	16.20	24.00	3.60		Pass
HT20	MCS0	1	36	5180	0.13	14.18	24.00	3.60		Pass
HT20	MCS0	1	44	5220	0.13	16.05	24.00	3.60		Pass
HT20	MCS0	1	48	5240	0.13	16.10	24.00	3.60		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	0.12	4.02	11.00	3.60		Pass
11a	6Mbps	1	44	5220	0.12	5.88	11.00	3.60		Pass
11a	6Mbps	1	48	5240	0.12	5.84	11.00	3.60		Pass
HT20	MCS0	1	36	5180	0.13	2.89	11.00	3.60		Pass
HT20	MCS0	1	44	5220	0.13	5.23	11.00	3.60		Pass
HT20	MCS0	1	48	5240	0.13	5.23	11.00	3.60		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	17.55	38.93	23.44	29.44	23.98	
11a	6M bps	1	60	5300	17.55	35.36	23.44	29.44	23.98	
11a	6M bps	1	64	5320	17.40	34.74	23.41	29.41	23.98	
HT20	MCS 0	1	52	5260	18.35	32.24	23.64	29.64	23.98	
HT20	MCS 0	1	60	5300	18.45	34.64	23.66	29.66	23.98	
HT20	MCS 0	1	64	5320	18.25	28.96	23.61	29.61	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.12	16.22	23.98	3.60	26.99	Pass
11a	6M bps	1	60	5300	0.12	16.29	23.98	3.60	26.99	Pass
11a	6M bps	1	64	5320	0.12	15.59	23.98	3.60	26.99	Pass
HT20	MCS 0	1	52	5260	0.13	16.17	23.98	3.60	26.99	Pass
HT20	MCS 0	1	60	5300	0.13	16.29	23.98	3.60	26.99	Pass
HT20	MCS 0	1	64	5320	0.13	14.59	23.98	3.60	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	0.12	5.63	11.00	3.60		Pass
11a	6M bps	1	60	5300	0.12	5.56	11.00	3.60		Pass
11a	6M bps	1	64	5320	0.12	4.75	11.00	3.60		Pass
HT20	MCS 0	1	52	5260	0.13	5.39	11.00	3.60		Pass
HT20	MCS 0	1	60	5300	0.13	5.17	11.00	3.60		Pass
HT20	MCS 0	1	64	5320	0.13	3.36	11.00	3.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	100	5500	17.40	35.68	23.41	29.41	23.98	
11a	6M bps	1	116	5580	17.90	38.18	23.53	29.53	23.98	
11a	6M bps	1	140	5700	17.30	28.91	23.38	29.38	23.98	
HT20	MCS 0	1	100	5500	18.25	30.56	23.61	29.61	23.98	
HT20	MCS 0	1	116	5580	18.45	35.36	23.66	29.66	23.98	
HT20	MCS 0	1	140	5700	18.15	32.58	23.59	29.59	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.12	15.74	23.98	3.60	26.99	Pass
11a	6M bps	1	116	5580	0.12	16.10	23.98	3.60	26.99	Pass
11a	6M bps	1	140	5700	0.12	12.29	23.98	3.60	26.99	Pass
HT20	MCS 0	1	100	5500	0.13	14.88	23.98	3.60	26.99	Pass
HT20	MCS 0	1	116	5580	0.13	16.10	23.98	3.60	26.99	Pass
HT20	MCS 0	1	140	5700	0.13	12.30	23.98	3.60	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.12	6.26	11.00	3.60		Pass
11a	6M bps	1	116	5580	0.12	6.89	11.00	3.60		Pass
11a	6M bps	1	140	5700	0.12	2.17	11.00	3.60		Pass
HT20	MCS 0	1	100	5500	0.13	4.48	11.00	3.60		Pass
HT20	MCS 0	1	116	5580	0.13	5.81	11.00	3.60		Pass
HT20	MCS 0	1	140	5700	0.13	0.82	11.00	3.60		Pass

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	50	3.7	
11a	6Mbps	1	36	5180	5179.975	-0.025	-4.83	-30	3.7	
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	20	4.2	
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	20	3.1	
11a	6Mbps	1	36	5180	5179.950	-0.050	-9.65	20	3.7	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	50	3.7	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	3.7	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	4.2	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	3.1	
11a	6Mbps	1	64	5320	5319.900	-0.100	-18.80	20	3.7	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	50	3.7	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	3.7	
11a	6Mbps	1	100	5500	5499.925	-0.075	-13.64	20	4.2	
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	20	3.1	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.7	



<EUT with J301 Antenna>

Report Number : FR692215C

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2016/10/6	Relative Humidity:	51~54	%

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	0.12	14.06	24.00	3.60		Pass
11a	6Mbps	1	44	5220	0.12	15.85	24.00	3.60		Pass
11a	6Mbps	1	48	5240	0.12	15.90	24.00	3.60		Pass
HT20	MCS0	1	36	5180	0.13	13.98	24.00	3.60		Pass
HT20	MCS0	1	44	5220	0.13	15.94	24.00	3.60		Pass
HT20	MCS0	1	48	5240	0.13	15.89	24.00	3.60		Pass

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.12	15.93	23.98	3.60	26.99	Pass
11a	6M bps	1	60	5300	0.12	15.96	23.98	3.60	26.99	Pass
11a	6M bps	1	64	5320	0.12	15.28	23.98	3.60	26.99	Pass
HT20	MCS 0	1	52	5260	0.13	15.86	23.98	3.60	26.99	Pass
HT20	MCS 0	1	60	5300	0.13	15.89	23.98	3.60	26.99	Pass
HT20	MCS 0	1	64	5320	0.13	14.29	23.98	3.60	26.99	Pass

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	0.12	15.47	23.98	3.60	26.99	Pass
11a	6M bps	1	116	5580	0.12	15.73	23.98	3.60	26.99	Pass
11a	6M bps	1	140	5700	0.12	11.94	23.98	3.60	26.99	Pass
HT20	MCS 0	1	100	5500	0.13	14.58	23.98	3.60	26.99	Pass
HT20	MCS 0	1	116	5580	0.13	15.74	23.98	3.60	26.99	Pass
HT20	MCS 0	1	140	5700	0.13	11.96	23.98	3.60	26.99	Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, James Chiu, and Ken Wu	Temperature :	21~24°C
		Relative Humidity :	50~54%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		5147.16	61.62	-12.38	74	51.94	33.69	11.21	35.22	100	280	P	H
		5149.24	52.25	-1.75	54	42.57	33.69	11.21	35.22	100	280	A	H
	*	5180	105.56	-	-	95.79	33.78	11.21	35.22	100	280	P	H
	*	5180	97.21	-	-	87.44	33.78	11.21	35.22	100	280	A	H
													H
													H
		5150	56.67	-17.33	74	46.99	33.69	11.21	35.22	372	335	P	V
		5150	49.12	-4.88	54	39.44	33.69	11.21	35.22	372	335	A	V
	*	5180	104.34	-	-	94.57	33.78	11.21	35.22	372	335	P	V
	*	5180	96.07	-	-	86.3	33.78	11.21	35.22	372	335	A	V
													V
													V
802.11a CH 44 5220MHz		5150	54.34	-19.66	74	44.66	33.69	11.21	35.22	100	282	P	H
		5150	45.17	-8.83	54	35.49	33.69	11.21	35.22	100	282	A	H
	*	5220	106.69	-	-	96.8	33.86	11.25	35.22	100	282	P	H
	*	5220	98.93	-	-	89.04	33.86	11.25	35.22	100	282	A	H
		5405.04	48.11	-25.89	74	37.11	34.34	11.89	35.23	100	282	P	H
		5376.96	40.48	-13.52	54	29.7	34.25	11.76	35.23	100	282	A	H
		5132.6	49.13	-24.87	74	39.52	33.65	11.18	35.22	366	332	P	V
		5150	41	-13	54	31.32	33.69	11.21	35.22	366	332	A	V
	*	5220	105.97	-	-	96.08	33.86	11.25	35.22	366	332	P	V
	*	5220	97.98	-	-	88.09	33.86	11.25	35.22	366	332	A	V
		5388.48	48.48	-25.52	74	37.52	34.3	11.89	35.23	366	332	P	V
		5363.76	40.47	-13.53	54	29.69	34.25	11.76	35.23	366	332	A	V



802.11a CH 48 5240MHz		5091.78	49.31	-24.69	74	39.83	33.56	11.14	35.22	100	284	P	H
		5150	41.02	-12.98	54	31.34	33.69	11.21	35.22	100	284	A	H
	*	5240	107.86	-	-	97.79	33.91	11.38	35.22	100	284	P	H
	*	5240	99.61	-	-	89.54	33.91	11.38	35.22	100	284	A	H
		5454.72	49.39	-24.61	74	38.27	34.47	11.89	35.24	100	284	P	H
		5354.64	40.59	-13.41	54	29.85	34.21	11.76	35.23	100	284	A	H
		5105.56	50.55	-23.45	74	40.99	33.6	11.18	35.22	380	332	P	V
		5139.1	40.6	-13.4	54	30.99	33.65	11.18	35.22	380	332	A	V
	*	5240	106.31	-	-	96.24	33.91	11.38	35.22	380	332	P	V
	*	5240	98.64	-	-	88.57	33.91	11.38	35.22	380	332	A	V
		5445.84	48.67	-25.33	74	37.55	34.47	11.89	35.24	380	332	P	V
		5389.44	40.5	-13.5	54	29.54	34.3	11.89	35.23	380	332	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	53.9	-14.3	68.2	56.85	39.09	17.17	59.21	100	0	P	H
		15540	45.96	-28.04	74	42.46	41.07	19.61	57.18	100	0	P	H
													H
													H
		10360	53.61	-14.59	68.2	56.56	39.09	17.17	59.21	100	0	P	V
		15540	48.56	-25.44	74	45.06	41.07	19.61	57.18	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	53.97	-14.23	68.2	56.8	39.15	17.17	59.15	100	0	P	H
		15660	46.76	-27.24	74	42.88	41.31	19.68	57.11	100	0	P	H
													H
													H
		10440	53.68	-14.52	68.2	56.51	39.15	17.17	59.15	100	0	P	V
		15660	48.2	-25.8	74	44.32	41.31	19.68	57.11	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	51.74	-16.46	68.2	54.49	39.19	17.17	59.11	100	0	P	H
		15720	44.76	-29.24	74	40.65	41.45	19.73	57.07	100	0	P	H
													H
													H
		10480	50.95	-17.25	68.2	53.7	39.19	17.17	59.11	100	0	P	V
		15720	47.47	-26.53	74	43.36	41.45	19.73	57.07	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		5148.98	61.53	-12.47	74	51.85	33.69	11.21	35.22	100	280	P	H
		5149.24	51.52	-2.48	54	41.84	33.69	11.21	35.22	100	280	A	H
	*	5180	105.27	-	-	95.5	33.78	11.21	35.22	100	280	P	H
	*	5180	96.83	-	-	87.06	33.78	11.21	35.22	100	280	A	H
													H
													H
		5150	59.21	-14.79	74	49.53	33.69	11.21	35.22	372	335	P	V
		5150	49.19	-4.81	54	39.51	33.69	11.21	35.22	372	335	A	V
	*	5180	103.83	-	-	94.06	33.78	11.21	35.22	372	335	P	V
	*	5180	95.57	-	-	85.8	33.78	11.21	35.22	372	335	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5149.76	55.96	-18.04	74	46.28	33.69	11.21	35.22	100	282	P	H
		5150	45.11	-8.89	54	35.43	33.69	11.21	35.22	100	282	A	H
	*	5220	106.77	-	-	96.88	33.86	11.25	35.22	100	282	P	H
	*	5220	98.61	-	-	88.72	33.86	11.25	35.22	100	282	A	H
		5414.88	48.4	-25.6	74	37.36	34.38	11.89	35.23	100	282	P	H
		5371.2	40.43	-13.57	54	29.65	34.25	11.76	35.23	100	282	A	H
		5147.68	51.1	-22.9	74	41.42	33.69	11.21	35.22	366	332	P	V
		5150	41.09	-12.91	54	31.41	33.69	11.21	35.22	366	332	A	V
	*	5220	105.52	-	-	95.63	33.86	11.25	35.22	366	332	P	V
	*	5220	97.66	-	-	87.77	33.86	11.25	35.22	366	332	A	V
		5384.16	49.79	-24.21	74	38.83	34.3	11.89	35.23	366	332	P	V
		5374.8	40.39	-13.61	54	29.61	34.25	11.76	35.23	366	332	A	V



802.11n HT20 CH 48 5240MHz		5059.28	50.22	-23.78	74	40.85	33.47	11.11	35.21	100	284	P	H
		5148.98	41.04	-12.96	54	31.36	33.69	11.21	35.22	100	284	A	H
	*	5240	107.54	-	-	97.47	33.91	11.38	35.22	100	284	P	H
	*	5240	99.42	-	-	89.35	33.91	11.38	35.22	100	284	A	H
		5395.44	49.14	-24.86	74	38.14	34.34	11.89	35.23	100	284	P	H
		5350.32	40.65	-13.35	54	29.91	34.21	11.76	35.23	100	284	A	H
		5048.62	50.17	-23.83	74	40.84	33.43	11.11	35.21	380	332	P	V
		5136.5	40.62	-13.38	54	31.01	33.65	11.18	35.22	380	332	A	V
	*	5240	106.55	-	-	96.48	33.91	11.38	35.22	380	332	P	V
	*	5240	98.26	-	-	88.19	33.91	11.38	35.22	380	332	A	V
		5377.68	48.44	-25.56	74	37.61	34.3	11.76	35.23	380	332	P	V
		5390.64	40.52	-13.48	54	29.56	34.3	11.89	35.23	380	332	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	53.42	-14.78	68.2	56.37	39.09	17.17	59.21	100	0	P	H
		15540	44.35	-29.65	74	40.85	41.07	19.61	57.18	100	0	P	H
													H
													H
		10360	53.19	-15.01	68.2	56.14	39.09	17.17	59.21	100	0	P	V
		15540	46.59	-27.41	74	43.09	41.07	19.61	57.18	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	53.4	-14.8	68.2	56.23	39.15	17.17	59.15	100	0	P	H
		15660	44.8	-29.2	74	40.92	41.31	19.68	57.11	100	0	P	H
													H
													H
		10440	53.52	-14.68	68.2	56.35	39.15	17.17	59.15	100	0	P	V
		15660	46.44	-27.56	74	42.56	41.31	19.68	57.11	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	54.07	-14.13	68.2	56.82	39.19	17.17	59.11	100	0	P	H
		15720	45.37	-28.63	74	41.26	41.45	19.73	57.07	100	0	P	H
													H
													H
		10480	51.64	-16.56	68.2	54.39	39.19	17.17	59.11	100	0	P	V
		15720	49.27	-24.73	74	45.16	41.45	19.73	57.07	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5114.14	49.75	-24.25	74	40.19	33.6	11.18	35.22	113	277	P	H
		5148.98	40.44	-13.56	54	30.76	33.69	11.21	35.22	113	277	A	H
	*	5260	107.2	-	-	97.06	33.99	11.38	35.23	113	277	P	H
	*	5260	99.33	-	-	89.19	33.99	11.38	35.23	113	277	A	H
		5379.6	49.82	-24.18	74	38.99	34.3	11.76	35.23	113	277	P	H
		5350.56	40.96	-13.04	54	30.22	34.21	11.76	35.23	113	277	A	H
		5102.18	48.86	-25.14	74	39.34	33.56	11.18	35.22	380	334	P	V
		5148.46	40.43	-13.57	54	30.75	33.69	11.21	35.22	380	334	A	V
	*	5260	107.03	-	-	96.89	33.99	11.38	35.23	380	334	P	V
	*	5260	99.17	-	-	89.03	33.99	11.38	35.23	380	334	A	V
		5380.56	48.78	-25.22	74	37.82	34.3	11.89	35.23	380	334	P	V
		5365.44	40.63	-13.37	54	29.85	34.25	11.76	35.23	380	334	A	V
802.11a CH 60 5300MHz		5043.94	48.38	-25.62	74	39.05	33.43	11.11	35.21	100	220	P	H
		5137.02	40.21	-13.79	54	30.6	33.65	11.18	35.22	100	220	A	H
	*	5300	107.46	-	-	97.1	34.08	11.51	35.23	100	220	P	H
	*	5300	99.46	-	-	89.1	34.08	11.51	35.23	100	220	A	H
		5352	60.36	-13.64	74	49.62	34.21	11.76	35.23	100	220	P	H
		5350.32	49.76	-4.24	54	39.02	34.21	11.76	35.23	100	220	A	H
		5040.82	48.84	-25.16	74	39.51	33.43	11.11	35.21	372	331	P	V
		5133.38	40.17	-13.83	54	30.56	33.65	11.18	35.22	372	331	A	V
	*	5300	107.56	-	-	97.2	34.08	11.51	35.23	372	331	P	V
	*	5300	99.49	-	-	89.13	34.08	11.51	35.23	372	331	A	V
		5354.16	56.77	-17.23	74	46.03	34.21	11.76	35.23	372	331	P	V
		5350.08	45.91	-8.09	54	35.17	34.21	11.76	35.23	372	331	A	V



802.11a CH 64 5320MHz	*	5320	107.48	-	-	96.96	34.12	11.63	35.23	101	281	P	H
	*	5320	99.21	-	-	88.69	34.12	11.63	35.23	101	281	A	H
		5355.04	59.67	-14.33	74	48.93	34.21	11.76	35.23	101	281	P	H
		5351.04	52.96	-1.04	54	42.22	34.21	11.76	35.23	101	281	A	H
													H
													H
	*	5320	107.23	-	-	96.71	34.12	11.63	35.23	372	336	P	V
	*	5320	99	-	-	88.48	34.12	11.63	35.23	372	336	A	V
		5354.88	59.68	-14.32	74	48.94	34.21	11.76	35.23	372	336	P	V
		5350.08	51.43	-2.57	54	40.69	34.21	11.76	35.23	372	336	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	53.42	-14.78	68.2	56.15	39.18	17.17	59.08	100	0	P	H
		15780	44.21	-29.79	74	39.94	41.55	19.75	57.03	100	0	P	H
													H
													H
		10520	50.87	-17.33	68.2	53.6	39.18	17.17	59.08	100	0	P	V
		15780	46.98	-27.02	74	42.71	41.55	19.75	57.03	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	55.42	-18.58	74	58.15	39.06	17.17	58.96	350	159	P	H
		10600	45.74	-8.26	54	48.47	39.06	17.17	58.96	350	159	A	H
		15900	44.73	-29.27	74	40.08	41.79	19.82	56.96	100	0	P	H
													H
		10600	49.63	-24.37	74	52.36	39.06	17.17	58.96	100	0	P	V
		15900	53.67	-20.33	74	49.02	41.79	19.82	56.96	100	151	P	V
		15900	43.25	-10.75	54	38.6	41.79	19.82	56.96	100	151	A	V
													V
802.11a CH 64 5320MHz		10640	53.39	-20.61	74	56.12	39.01	17.17	58.91	380	342	P	H
		10640	43.59	-10.41	54	46.32	39.01	17.17	58.91	380	342	A	H
		15960	47.41	-26.59	74	42.53	41.93	19.87	56.92	100	0	P	H
													H
		10640	54.6	-19.4	74	57.33	39.01	17.17	58.91	380	88	P	V
		10640	43.8	-10.2	54	46.53	39.01	17.17	58.91	380	88	A	V
		15960	52.49	-21.51	74	47.61	41.93	19.87	56.92	100	146	P	V
		15960	42.32	-11.68	54	37.44	41.93	19.87	56.92	100	146	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


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

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5114.4	48.49	-25.51	74	38.93	33.6	11.18	35.22	113	277	P	H
		5147.42	40.6	-13.4	54	30.92	33.69	11.21	35.22	113	277	A	H
	*	5260	107.29	-	-	97.15	33.99	11.38	35.23	113	277	P	H
	*	5260	98.95	-	-	88.81	33.99	11.38	35.23	113	277	A	H
		5357.28	49.21	-24.79	74	38.47	34.21	11.76	35.23	113	277	P	H
		5350.56	41.17	-12.83	54	30.43	34.21	11.76	35.23	113	277	A	H
		5114.14	49.35	-24.65	74	39.79	33.6	11.18	35.22	380	334	P	V
		5137.54	40.67	-13.33	54	31.06	33.65	11.18	35.22	380	334	A	V
	*	5260	107.04	-	-	96.9	33.99	11.38	35.23	380	334	P	V
	*	5260	98.92	-	-	88.78	33.99	11.38	35.23	380	334	A	V
		5411.52	49.16	-24.84	74	38.12	34.38	11.89	35.23	380	334	P	V
		5409.84	40.54	-13.46	54	29.54	34.34	11.89	35.23	380	334	A	V
802.11n HT20 CH 60 5300MHz		5054.34	49.12	-24.88	74	39.79	33.43	11.11	35.21	100	220	P	H
		5132.6	40.26	-13.74	54	30.65	33.65	11.18	35.22	100	220	A	H
	*	5300	107.56	-	-	97.2	34.08	11.51	35.23	100	220	P	H
	*	5300	99.14	-	-	88.78	34.08	11.51	35.23	100	220	A	H
		5351.52	61.73	-12.27	74	50.99	34.21	11.76	35.23	100	220	P	H
		5350.32	49.41	-4.59	54	38.67	34.21	11.76	35.23	100	220	A	H
		5096.2	48.33	-25.67	74	38.85	33.56	11.14	35.22	372	331	P	V
		5114.4	40.18	-13.82	54	30.62	33.6	11.18	35.22	372	331	A	V
	*	5300	106.96	-	-	96.6	34.08	11.51	35.23	372	331	P	V
	*	5300	98.94	-	-	88.58	34.08	11.51	35.23	372	331	A	V
		5350.56	53.68	-20.32	74	42.94	34.21	11.76	35.23	372	331	P	V
		5350.08	45.96	-8.04	54	35.22	34.21	11.76	35.23	372	331	A	V



802.11n HT20 CH 64 5320MHz	*	5320	105.95	-	-	95.43	34.12	11.63	35.23	102	281	P	H
	*	5320	98	-	-	87.48	34.12	11.63	35.23	102	281	A	H
		5353.6	60.47	-13.53	74	49.73	34.21	11.76	35.23	102	281	P	H
		5350.4	50.98	-3.02	54	40.24	34.21	11.76	35.23	102	281	A	H
													H
													H
	*	5320	105.33	-	-	94.81	34.12	11.63	35.23	372	336	P	V
	*	5320	97.53	-	-	87.01	34.12	11.63	35.23	372	336	A	V
		5350.88	59.12	-14.88	74	48.38	34.21	11.76	35.23	372	336	P	V
		5350.08	47.81	-6.19	54	37.07	34.21	11.76	35.23	372	336	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	54.56	-13.64	68.2	57.29	39.18	17.17	59.08	100	0	P	H
		15780	44.95	-29.05	74	40.68	41.55	19.75	57.03	100	0	P	H
													H
													H
		10520	51.47	-16.73	68.2	54.2	39.18	17.17	59.08	100	0	P	V
		15780	49.24	-24.76	74	44.97	41.55	19.75	57.03	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	54.98	-19.02	74	57.71	39.06	17.17	58.96	380	159	P	H
		10600	45.17	-8.83	54	47.9	39.06	17.17	58.96	380	159	A	H
		15900	47.71	-26.29	74	43.06	41.79	19.82	56.96	100	0	P	H
													H
		10600	53.74	-20.26	74	56.47	39.06	17.17	58.96	380	65	P	V
		10600	43.38	-10.62	54	46.11	39.06	17.17	58.96	380	65	A	V
		15900	50.45	-23.55	74	45.8	41.79	19.82	56.96	100	0	P	V
													V
802.11n HT20 CH 64 5320MHz		10640	49.39	-24.61	74	52.12	39.01	17.17	58.91	100	0	P	H
		15960	49.37	-24.63	74	44.49	41.93	19.87	56.92	100	0	P	H
													H
													H
		10640	49.27	-24.73	74	52	39.01	17.17	58.91	100	0	P	V
		15960	49.17	-24.83	74	44.29	41.93	19.87	56.92	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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5456.4	59.35	-14.65	74	48.23	34.47	11.89	35.24	100	216	P	H
		5467.76	65.86	-2.34	68.2	54.7	34.51	11.89	35.24	100	216	P	H
		5460	51.45	-2.55	54	40.33	34.47	11.89	35.24	100	216	A	H
	*	5500	107.15	-	-	95.9	34.6	11.89	35.24	100	216	P	H
	*	5500	99.15	-	-	87.9	34.6	11.89	35.24	100	216	A	H
													H
		5459.6	53.49	-20.51	74	42.37	34.47	11.89	35.24	361	328	P	V
		5469.2	59.91	-8.29	68.2	48.75	34.51	11.89	35.24	361	328	P	V
		5459.92	45.6	-8.4	54	34.48	34.47	11.89	35.24	361	328	A	V
	*	5500	104.93	-	-	93.68	34.6	11.89	35.24	361	328	P	V
	*	5500	97.31	-	-	86.06	34.6	11.89	35.24	361	328	A	V
													V
802.11a CH 116 5580MHz		5446.48	49.42	-24.58	74	38.3	34.47	11.89	35.24	100	215	P	H
		5465.68	49.22	-18.98	68.2	38.06	34.51	11.89	35.24	100	215	P	H
		5455.36	40.73	-13.27	54	29.61	34.47	11.89	35.24	100	215	A	H
	*	5580	107.35	-	-	96.12	34.6	11.89	35.26	100	215	P	H
	*	5580	99.47	-	-	88.24	34.6	11.89	35.26	100	215	A	H
		5730	49	-19.2	68.2	37.63	34.6	12.06	35.29	100	215	P	H
		5459.92	48.52	-25.48	74	37.4	34.47	11.89	35.24	372	330	P	V
		5462.08	48.17	-20.03	68.2	37.05	34.47	11.89	35.24	372	330	P	V
		5455.6	40.41	-13.59	54	29.29	34.47	11.89	35.24	372	330	A	V
	*	5580	105.53	-	-	94.3	34.6	11.89	35.26	372	330	P	V
	*	5580	97.56	-	-	86.33	34.6	11.89	35.26	372	330	A	V
		5743.65	48.91	-19.29	68.2	37.49	34.6	12.11	35.29	372	330	P	V



802.11a CH 140 5700MHz	*	5700	107.85	-	-	96.53	34.6	12	35.28	100	219	P	H
	*	5700	100.77	-	-	89.45	34.6	12	35.28	100	219	A	H
		5727.08	66.13	-2.07	68.2	54.76	34.6	12.06	35.29	100	219	P	H
													H
													H
													H
	*	5700	106.03	-	-	94.71	34.6	12	35.28	318	328	P	V
	*	5700	99	-	-	87.68	34.6	12	35.28	318	328	A	V
		5725.72	63.89	-4.31	68.2	52.52	34.6	12.06	35.29	318	328	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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	50.18	-23.82	74	52.91	38.5	17.17	58.4	100	0	P	H
		16500	51.13	-17.07	68.2	44	43	20.23	56.1	100	0	P	H
													H
													H
		11000	47.59	-26.41	74	50.32	38.5	17.17	58.4	100	0	P	V
		16500	55.59	-12.61	68.2	48.46	43	20.23	56.1	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	54.69	-19.31	74	56.79	38.77	17.16	58.03	325	7	P	H
		11160	44.65	-9.35	54	46.75	38.77	17.16	58.03	325	7	A	H
		16740	49.73	-18.47	68.2	42.4	42.9	20.39	55.96	100	0	P	H
													H
		11160	50.72	-23.28	74	52.82	38.77	17.16	58.03	100	0	P	V
		16740	56.2	-12	68.2	48.87	42.9	20.39	55.96	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	46.06	-27.94	74	47.28	39.14	17.16	57.52	100	0	P	H
		17100	49.16	-19.04	68.2	41.71	42.64	20.65	55.84	100	0	P	H
													H
													H
		11400	46.15	-27.85	74	47.37	39.14	17.16	57.52	100	0	P	V
		17100	55.31	-12.89	68.2	47.86	42.64	20.65	55.84	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. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5455.6	59.38	-14.62	74	48.26	34.47	11.89	35.24	100	301	P	H
		5466.32	64	-4.2	68.2	52.84	34.51	11.89	35.24	100	301	P	H
		5458.8	52.54	-1.46	54	41.42	34.47	11.89	35.24	100	301	A	H
	*	5500	108.47	-	-	97.22	34.6	11.89	35.24	100	301	P	H
	*	5500	101.23	-	-	89.98	34.6	11.89	35.24	100	301	A	H
													H
		5450.96	56.85	-17.15	74	45.73	34.47	11.89	35.24	307	328	P	V
		5470	63.94	-4.26	68.2	52.78	34.51	11.89	35.24	307	328	P	V
		5459.92	49.25	-4.75	54	38.13	34.47	11.89	35.24	307	328	A	V
	*	5500	107.52	-	-	96.27	34.6	11.89	35.24	307	328	P	V
	*	5500	100.33	-	-	89.08	34.6	11.89	35.24	307	328	A	V
													V
802.11n HT20 CH 116 5580MHz		5448.16	48.7	-25.3	74	37.58	34.47	11.89	35.24	100	215	P	H
		5462.56	47.92	-20.28	68.2	36.76	34.51	11.89	35.24	100	215	P	H
		5455.36	40.92	-13.08	54	29.8	34.47	11.89	35.24	100	215	A	H
	*	5580	110.04	-	-	98.81	34.6	11.89	35.26	100	215	P	H
	*	5580	102.81	-	-	91.58	34.6	11.89	35.26	100	215	A	H
		5728.425	50.65	-17.55	68.2	39.28	34.6	12.06	35.29	100	215	P	H
		5382.4	48.84	-25.16	74	37.88	34.3	11.89	35.23	317	328	P	V
		5461.6	48.67	-19.53	68.2	37.55	34.47	11.89	35.24	317	328	P	V
		5459.92	40.58	-13.42	54	29.46	34.47	11.89	35.24	317	328	A	V
	*	5580	109.58	-	-	98.35	34.6	11.89	35.26	317	328	P	V
	*	5580	102.27	-	-	91.04	34.6	11.89	35.26	317	328	A	V
		5725.975	50.04	-18.16	68.2	38.67	34.6	12.06	35.29	317	328	P	V



802.11n HT20 CH 140 5700MHz	*	5700	107.48	-	-	96.16	34.6	12	35.28	100	301	P	H
	*	5700	100.27	-	-	88.95	34.6	12	35.28	100	301	A	H
		5727.8	65.32	-2.88	68.2	53.95	34.6	12.06	35.29	100	301	P	H
													H
													H
													H
	*	5700	105.62	-	-	94.3	34.6	12	35.28	302	328	P	V
	*	5700	98.47	-	-	87.15	34.6	12	35.28	302	328	A	V
		5725.8	66.07	-2.13	68.2	54.7	34.6	12.06	35.29	302	328	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	49.57	-24.43	74	52.3	38.5	17.17	58.4	100	0	P	H
		16500	50.08	-18.12	68.2	42.95	43	20.23	56.1	100	0	P	H
													H
													H
		11000	47.35	-26.65	74	50.08	38.5	17.17	58.4	100	0	P	V
		16500	55.49	-12.71	68.2	48.36	43	20.23	56.1	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	50.25	-23.75	74	52.35	38.77	17.16	58.03	100	0	P	H
		16740	49.73	-18.47	68.2	42.4	42.9	20.39	55.96	100	0	P	H
													H
													H
		11160	50.7	-23.3	74	52.8	38.77	17.16	58.03	100	0	P	V
		16740	56.3	-11.9	68.2	48.97	42.9	20.39	55.96	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	46.51	-27.49	74	47.73	39.14	17.16	57.52	100	0	P	H
		17100	49.52	-18.68	68.2	42.07	42.64	20.65	55.84	100	0	P	H
													H
													H
		11400	45.58	-28.42	74	46.8	39.14	17.16	57.52	100	0	P	V
		17100	57.33	-10.87	68.2	49.88	42.64	20.65	55.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30	27.38	-12.62	40	31.81	26	1.07	31.5			P	H
		100.47	30.2	-13.3	43.5	43.26	16.49	1.55	31.1			P	H
		299.73	31.61	-14.39	46	40.49	19.8	2.32	31			P	H
		767.6	31.55	-14.45	46	30.72	27.37	3.82	30.36			P	H
		873.3	32.44	-13.56	46	29.78	28.84	4.17	30.35			P	H
		917.4	33.54	-12.46	46	30.33	29.42	4.12	30.33	100	48	P	H
													H
													H
													H
													H
													H
													H
		31.35	28.73	-11.27	40	33.62	25.46	1.07	31.42	100	127	P	V
		100.47	30.54	-12.96	43.5	43.6	16.49	1.55	31.1			P	V
		299.73	27.35	-18.65	46	36.23	19.8	2.32	31			P	V
		829.2	31.95	-14.05	46	29.92	28.29	4.1	30.36			P	V
		849.5	32.93	-13.07	46	30.53	28.7	4.1	30.4			P	V
		939.1	33.51	-12.49	46	29.83	29.94	4.12	30.38			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.	
2		(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 C. Radiated Spurious Emission

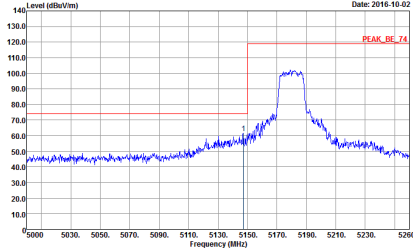
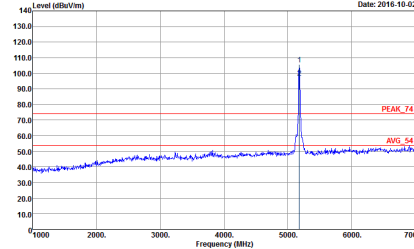
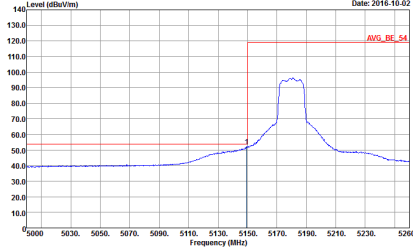
Test Engineer :	Jesse Wang, James Chiu, and Ken Wu	Temperature :	21~24°C
		Relative Humidity :	50~54%

Note symbol

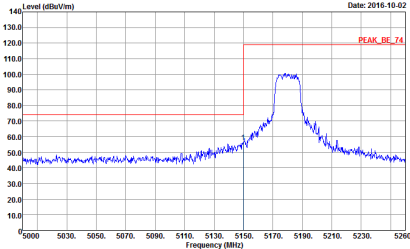
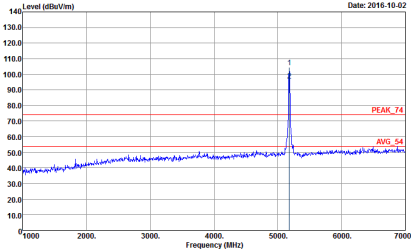
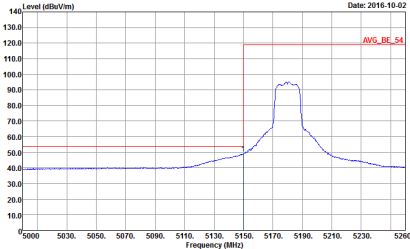
-L	Low channel location
-R	High channel location



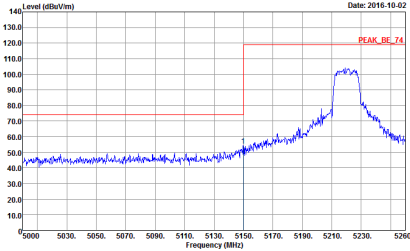
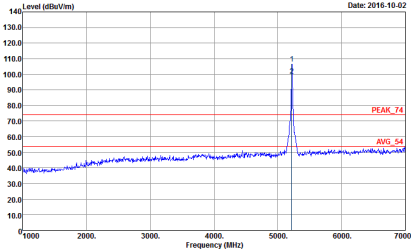
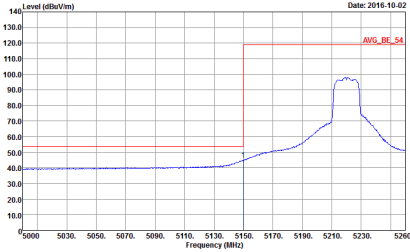
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p>	 <p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p>	Left blank

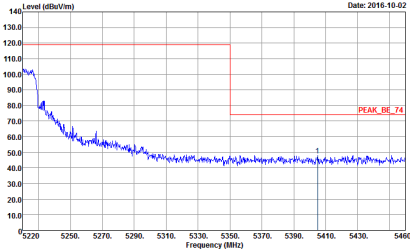
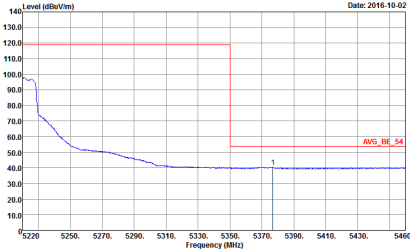


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p></div>	Left blank

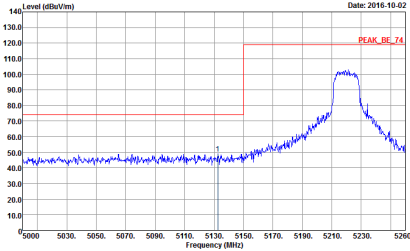
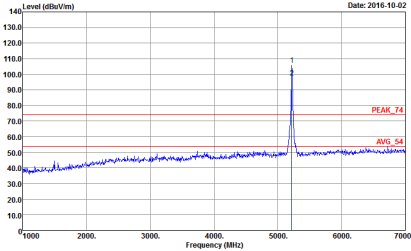
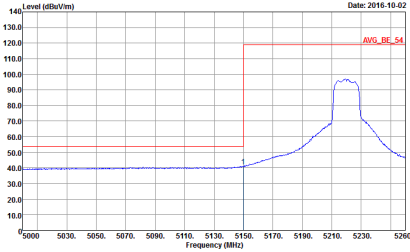


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

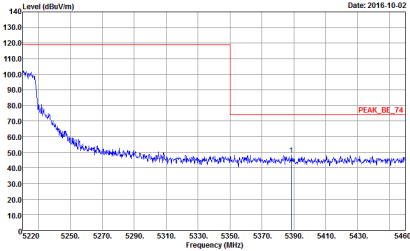
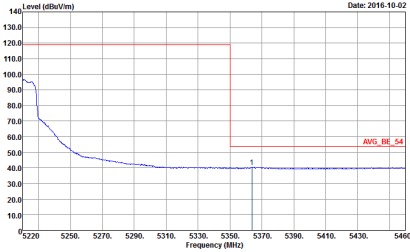


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

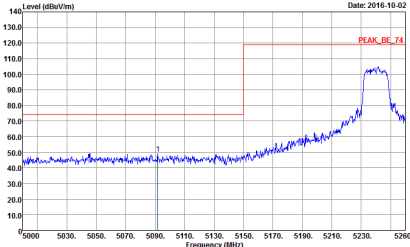
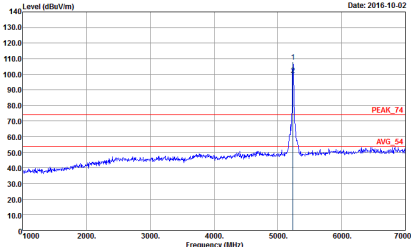
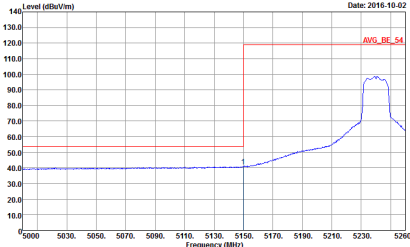


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

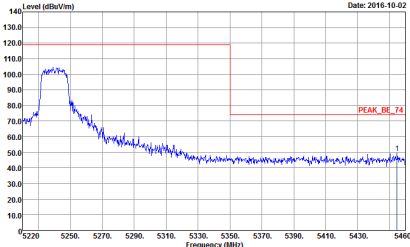
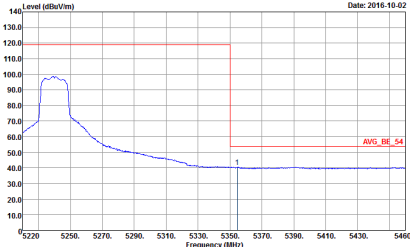


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

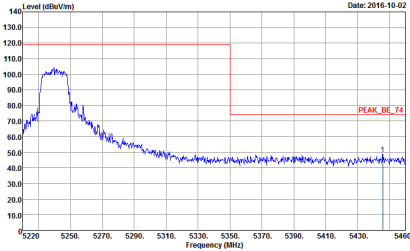
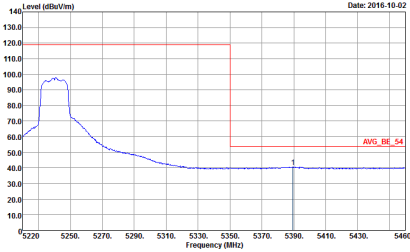


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



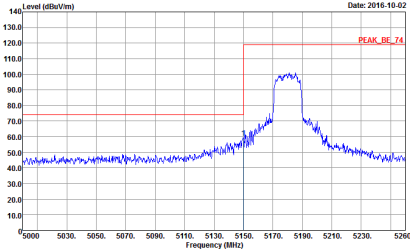
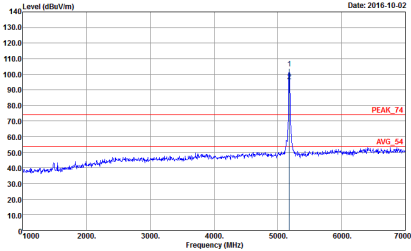
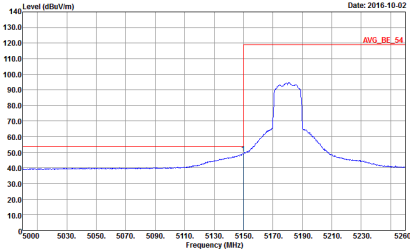
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



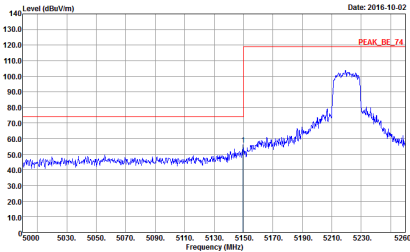
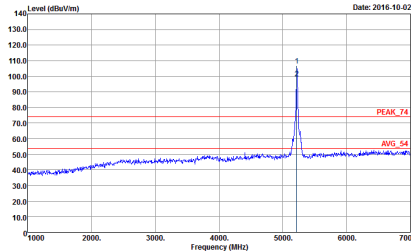
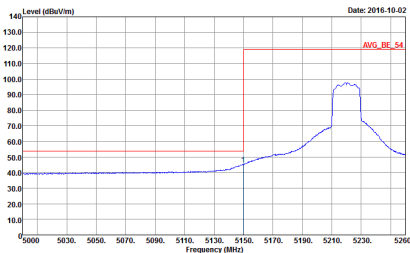
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p>	<p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p>	Left blank

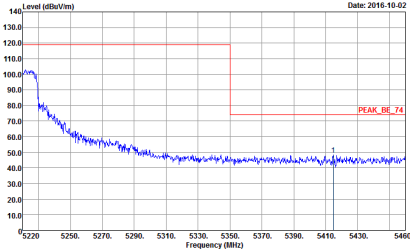
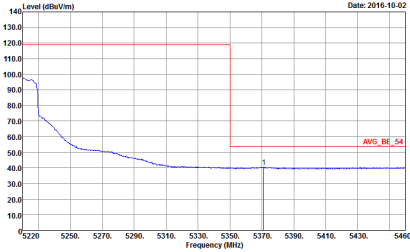


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p></div>	Left blank

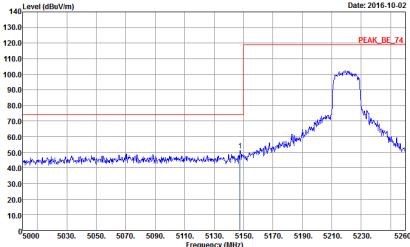
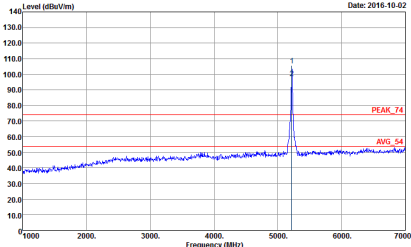
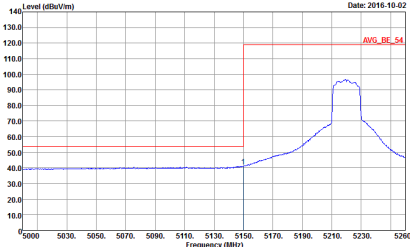


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

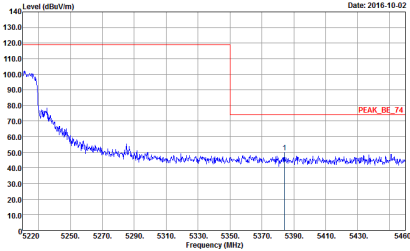
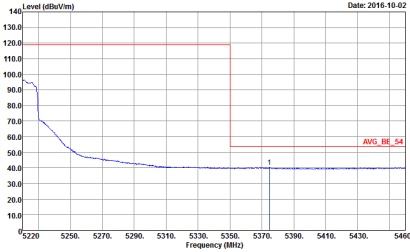


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

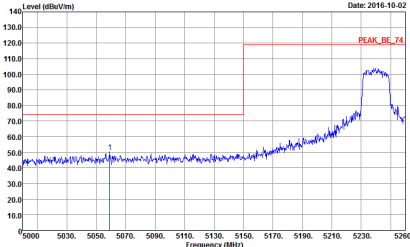
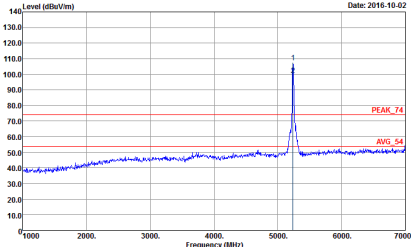
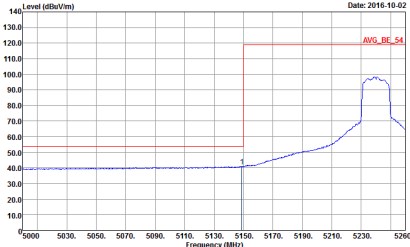


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

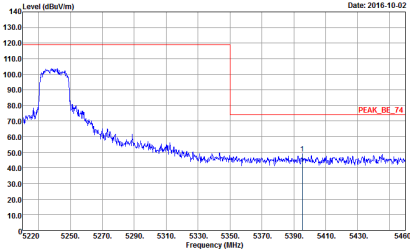
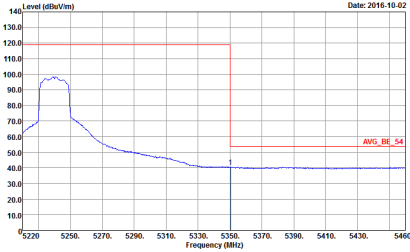


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

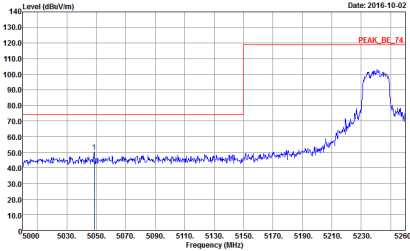
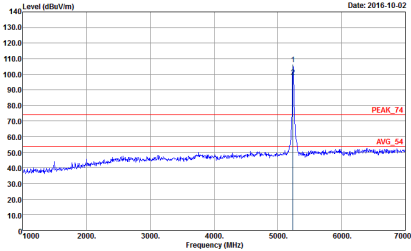
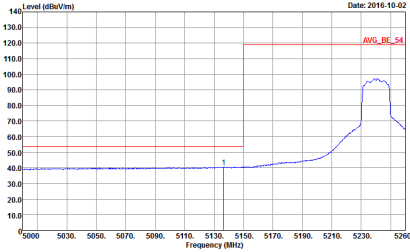


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

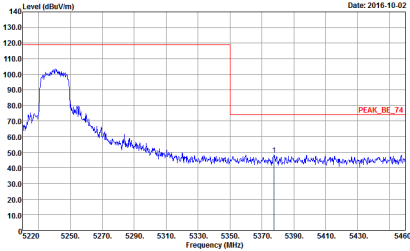
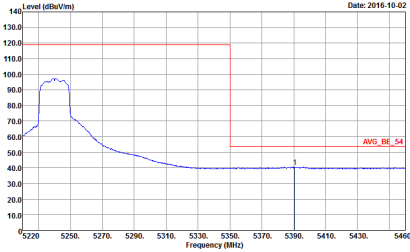


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



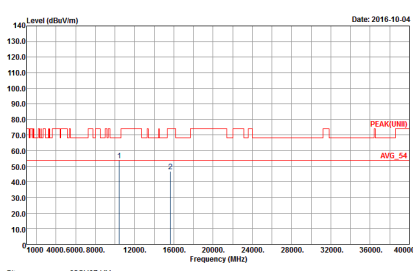
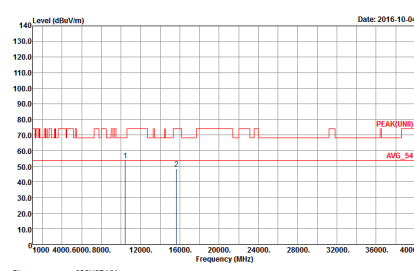
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



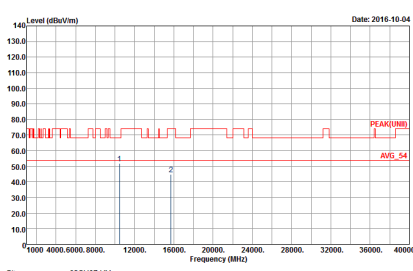
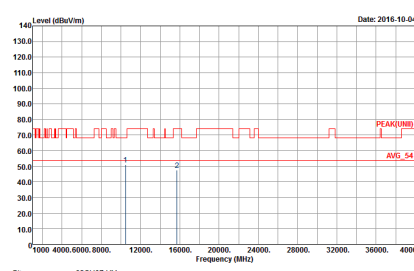
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UM) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UM) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 1 Plane : X Ant : 1 Setting : 18.5</p></div>



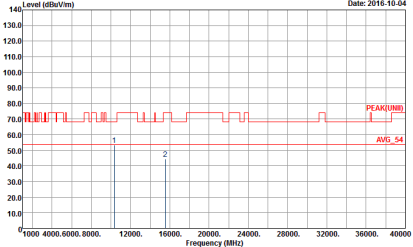
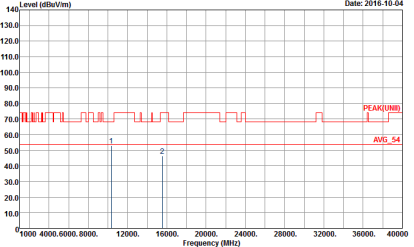
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UNI) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UNI) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 2 Plane : X Ant : 1 Setting : 20</p></div>



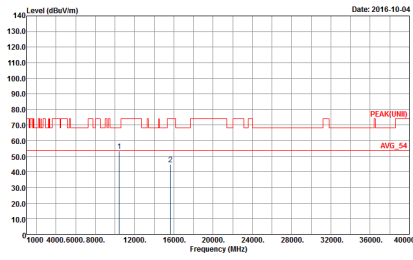
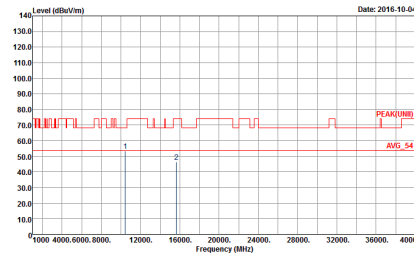
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UNI) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UNI) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 3 Plane : X Ant : 1 Setting : 20</p></div>



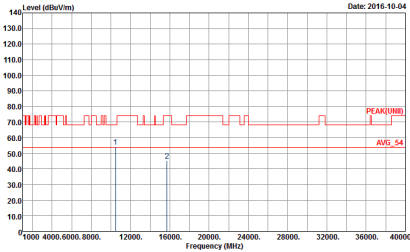
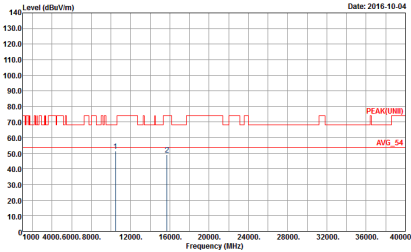
Band 1 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07-HY Condition : PEAK(LIM) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK(LIM) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 13 Plane : X Ant : 1 Setting : 18.5</p></div>



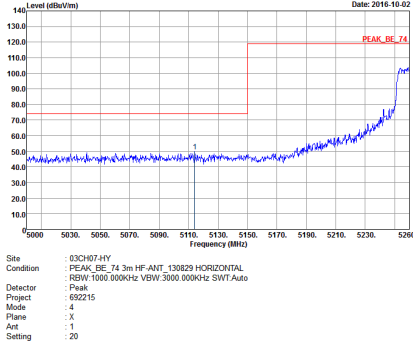
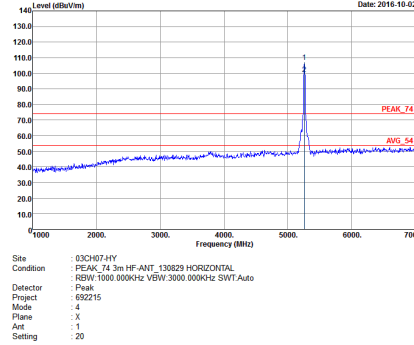
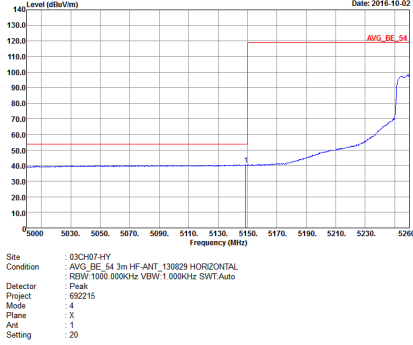
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UNL) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant. : 1 Setting : 20</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UNL) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 14 Plane : X Ant. : 1 Setting : 20</p></div>



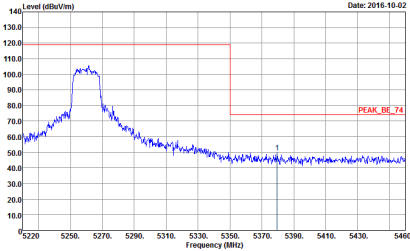
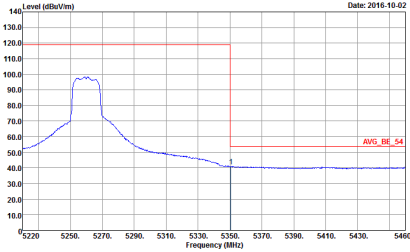
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 15 Plane : X Ant : 1 Setting : 20</p></div>



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

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

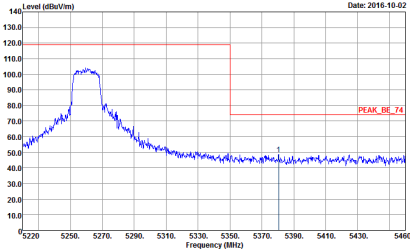
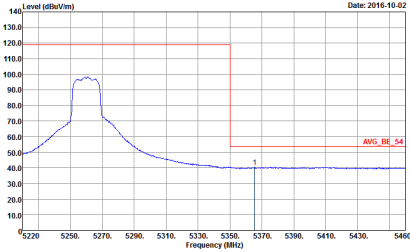


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

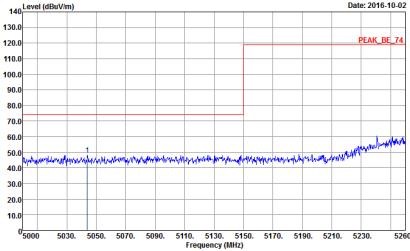
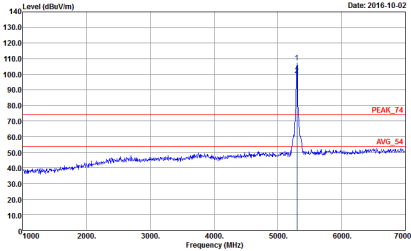
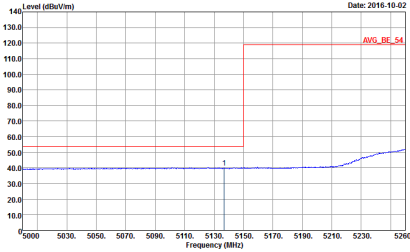


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

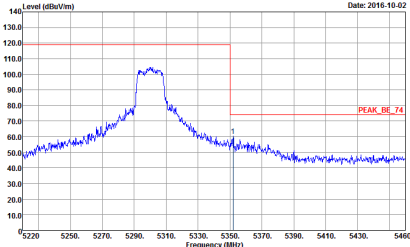
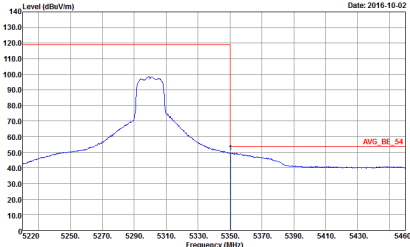


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

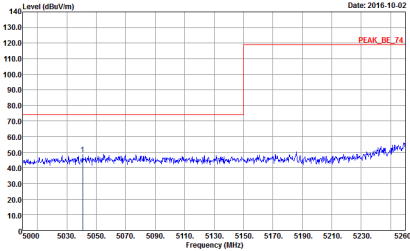
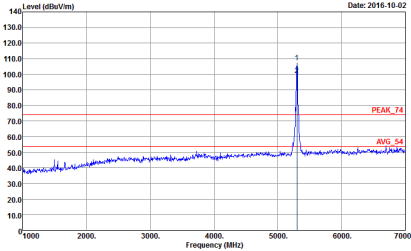
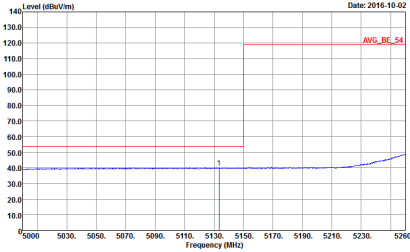


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_S4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank

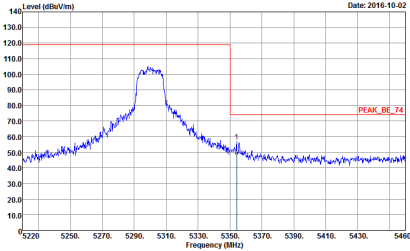
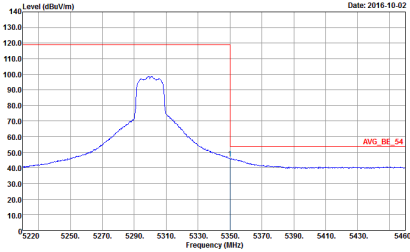


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank

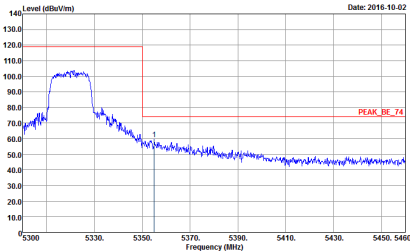
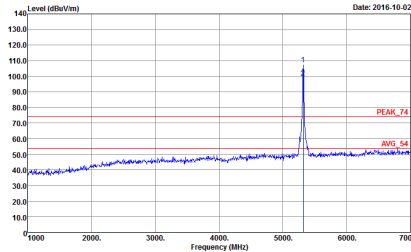
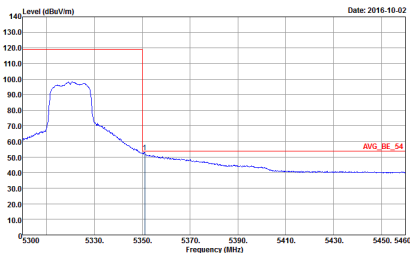


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank

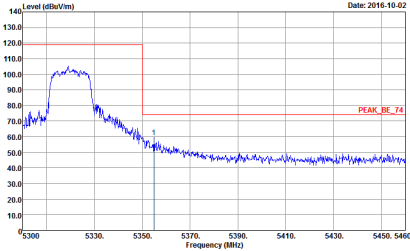
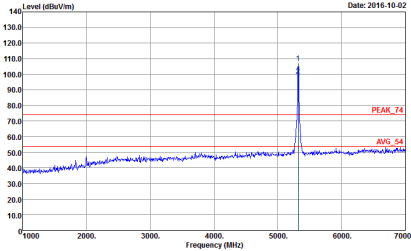
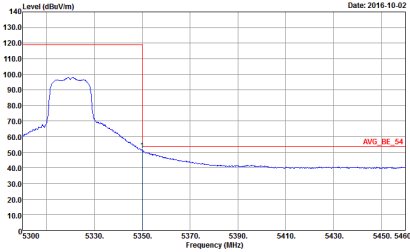


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT, 130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT, 130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	Left blank



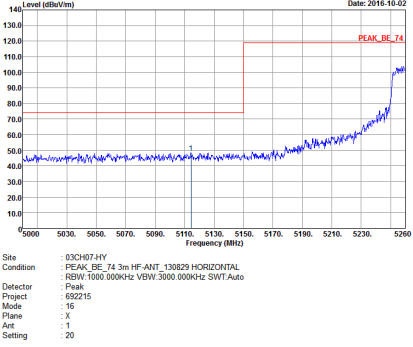
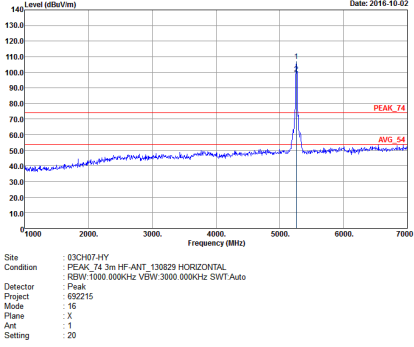
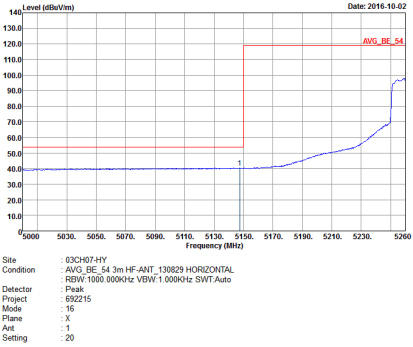
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak	<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>	<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>
Avg.	<div><p>Level (dBuV/m)</p><p>Frequency (MHz)</p><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>	Left blank



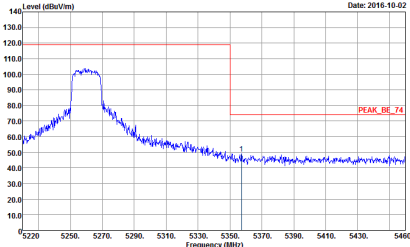
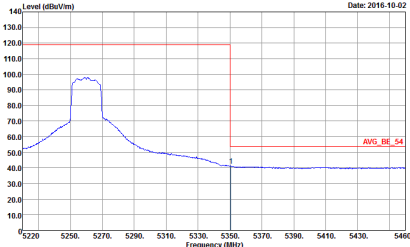
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant : 1 Setting : 19</p></div>	Left blank



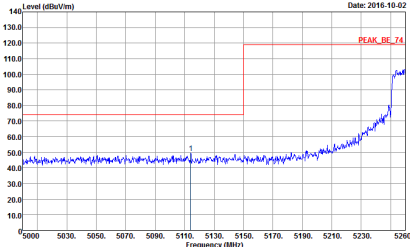
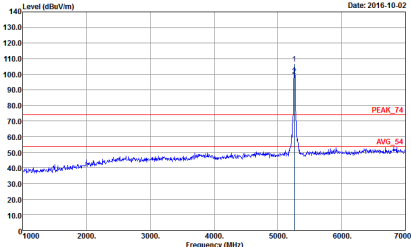
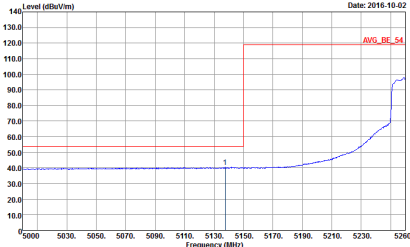
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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

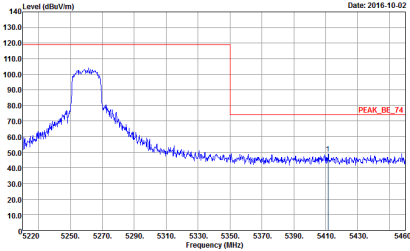
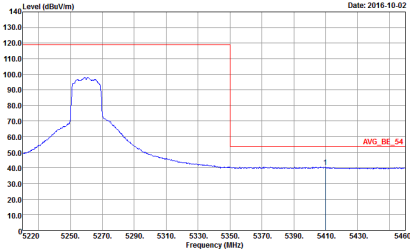


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT, 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

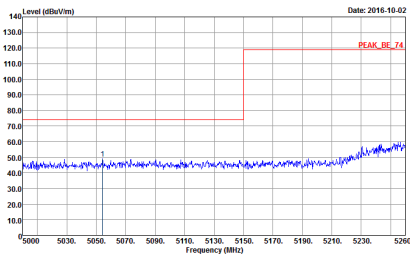
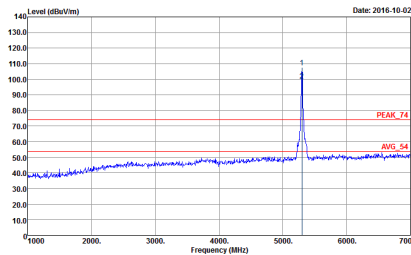
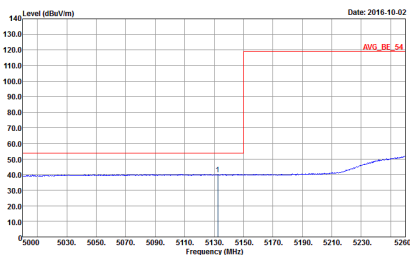


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

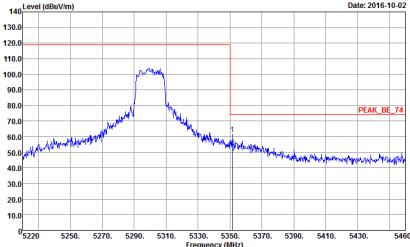
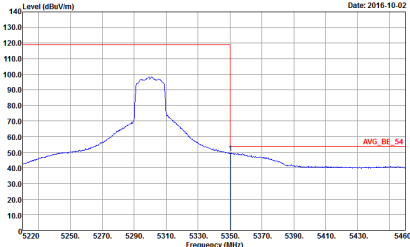


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

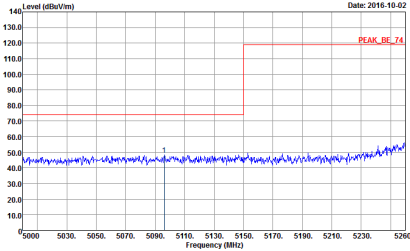
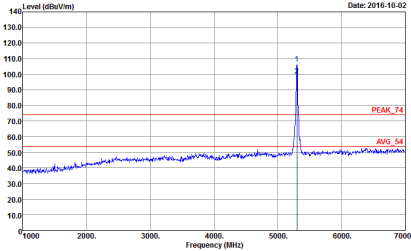
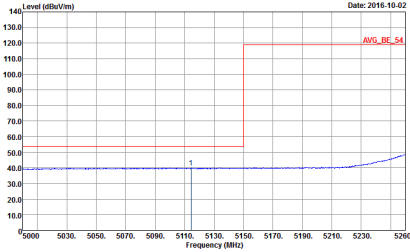


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 63CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 63CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 63CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

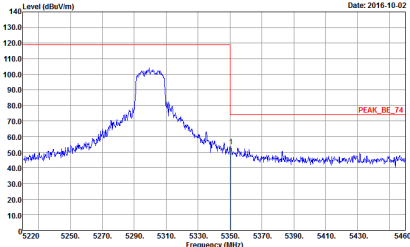
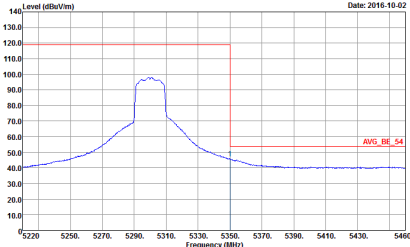


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Horizontal	Vertical
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

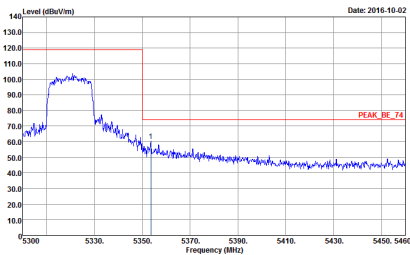
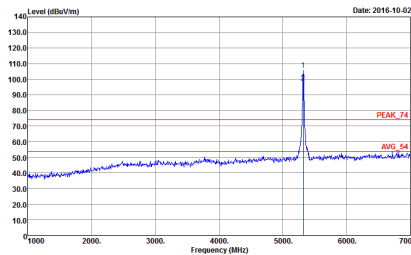
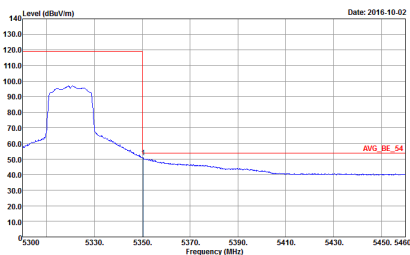


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

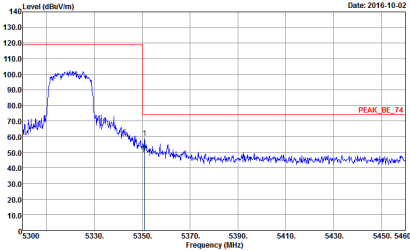
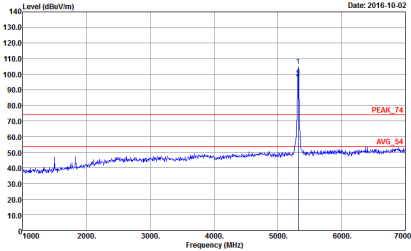
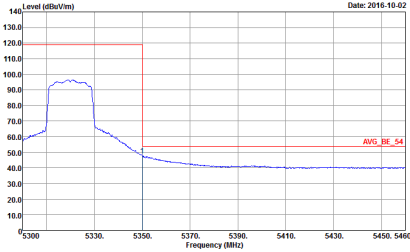


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



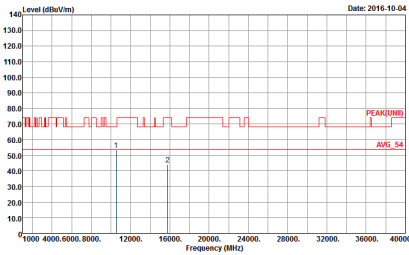
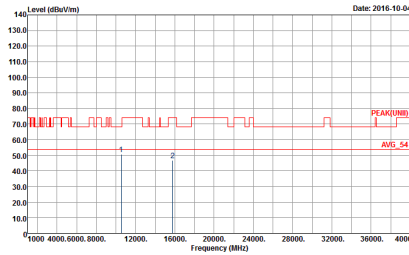
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_74 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 HORIZONTAL REBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 63CH07-HY Condition : PEAK_BE_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 63CH07-HY Condition : PEAK_74 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>
Avg.	<div><p>Site : 63CH07-HY Condition : AVG_BE_54 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 18 Plane : X Ant : 1 Setting : 18.5</p></div>	Left blank



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

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p>	 <p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 4 Plane : X Ant : 1 Setting : 20</p>



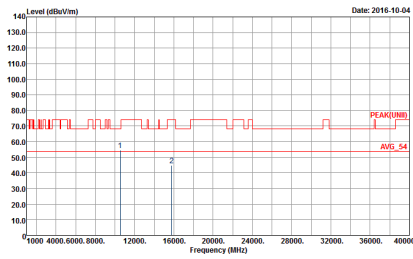
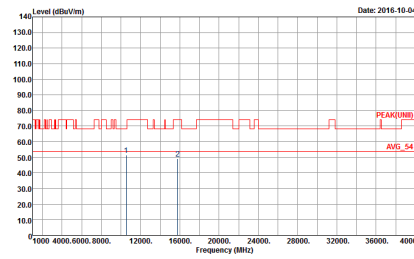
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07.HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20</p></div>



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant. : 1 Setting : 19</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 6 Plane : X Ant. : 1 Setting : 19</p></div>



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

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07-HY Condition : PEAK(LIM) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK(LIM) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 16 Plane : X Ant : 1 Setting : 20</p></div>



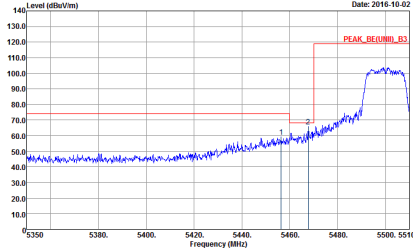
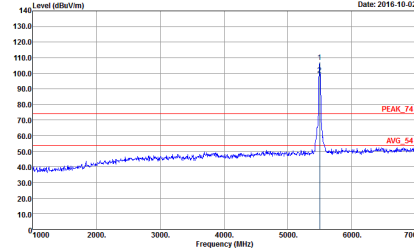
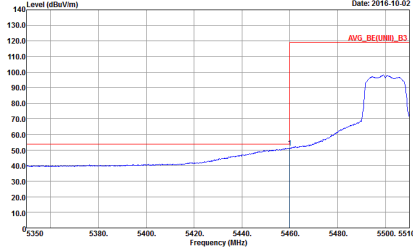
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 17 Plane : X Ant : 1 Setting : 20</p></div>



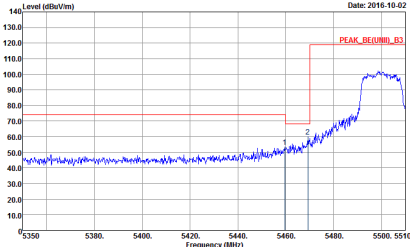
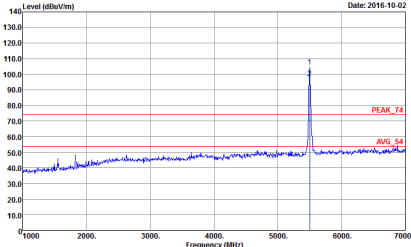
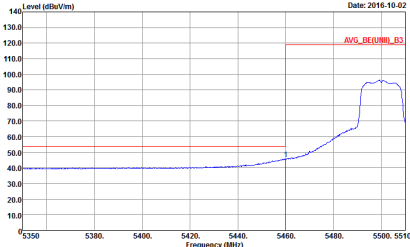
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 18 Plane : X Ant. : 1 Setting : 18.5</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-04</p><p>Frequency (MHz)</p><p>Site : 03CH07-11Y Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 18 Plane : X Ant. : 1 Setting : 18.5</p></div>



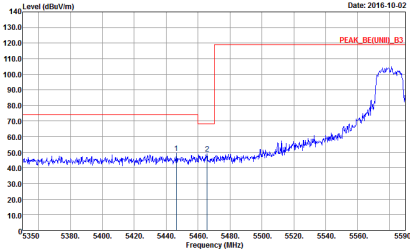
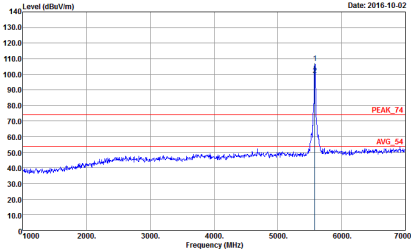
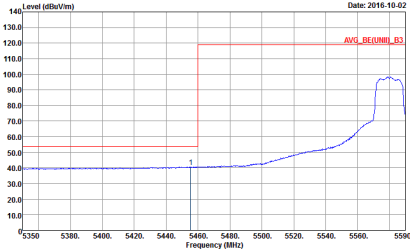
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL REBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 692215 Mode : 7 Plane : X Ant : 1 Setting : 68.3</p>	 <p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL REBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 692215 Mode : 7 Plane : X Ant : 1 Setting : 68.3</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL REBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 692215 Mode : 7 Plane : X Ant : 1 Setting : 68.3</p>	Left blank

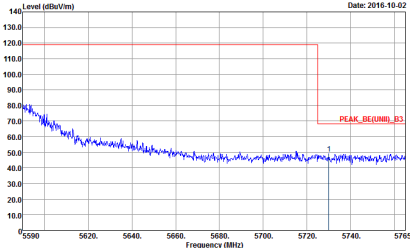


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UM)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : F Plane : X Ant : 1 Setting : 19.5 Setting : 68.3</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : F Plane : X Ant : 1 Setting : 19.5 Setting : 68.3</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE(UM)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : F Plane : X Ant : 1 Setting : 19.5 Setting : 68.3</p></div>	Left blank

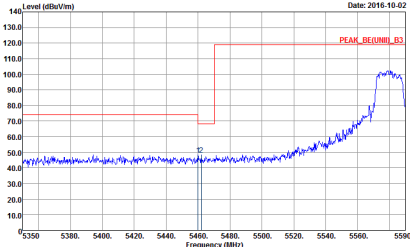
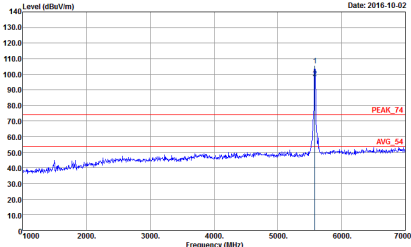
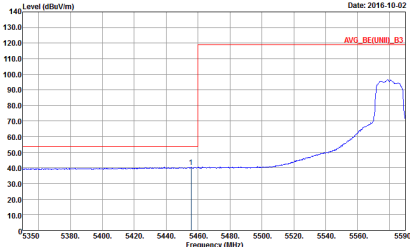


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>	Left blank

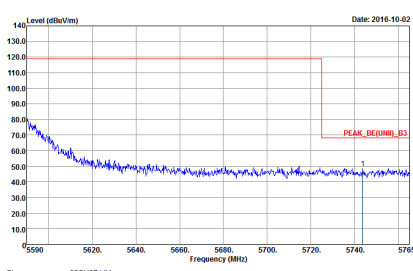


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UNIT)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20 68.3</p></div>	Left blank

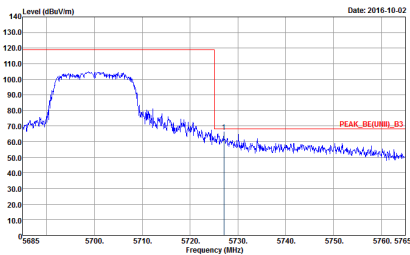
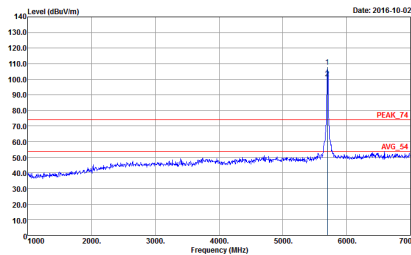


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 68.3</p></div>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-MY Condition : PEAK_BE(UNIT)_B3 3m HF ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : S Plane : X Ant : 1 Setting : 20 68.3</p></div>	Left blank



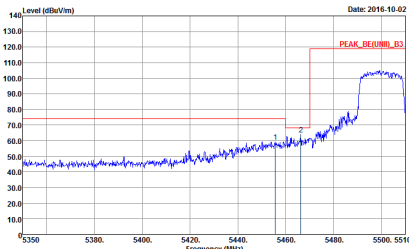
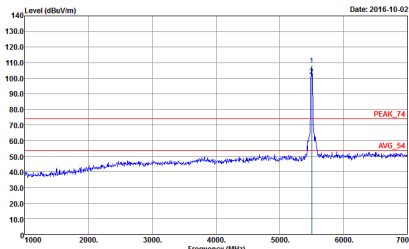
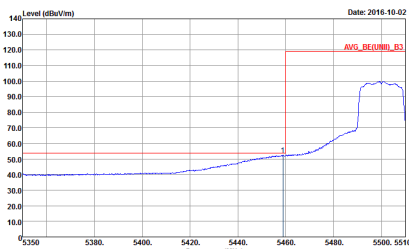
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07.HY Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 68.3</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 68.3</p></div>



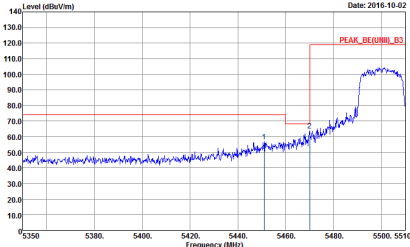
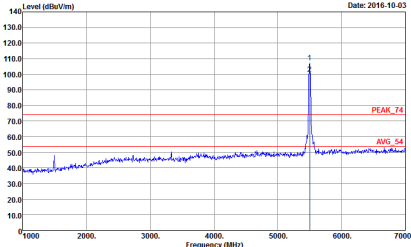
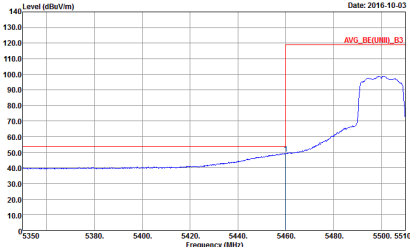
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
2	Vertical	Fundamental
Peak	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-02</p><p>PEAK_BE(UMI)_B3</p><p>Site : 03CH07-11Y Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 Setting : 68.3</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-02</p><p>PEAK_T4</p><p>AVG_S4</p><p>Site : 03CH07-11Y Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 Setting : 68.3</p></div>



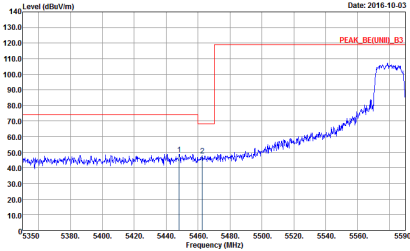
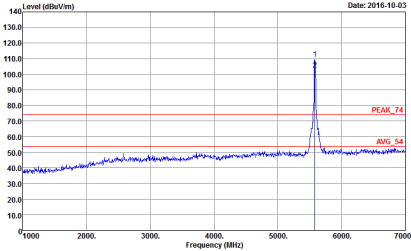
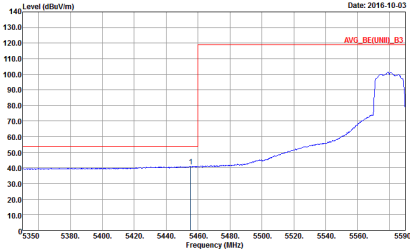
Band 3 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE(UMI)_B3 3m HF-ANT 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p>	 <p>Site : 03CH07-HY Condition : PEAK_F4 3m HF-ANT 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_BE(UMI)_B3 3m HF-ANT 130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p>	Left blank

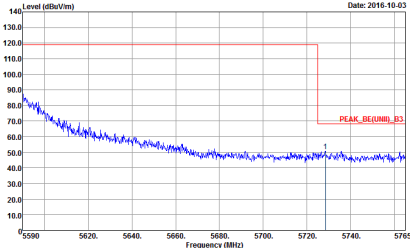


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Vertical	Fundamental
Peak	<div><p>Site : 63CH07-HY Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 63CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p></div>
Avg.	<div><p>Site : 63CH07-HY Condition : AVG_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p></div>	Left blank

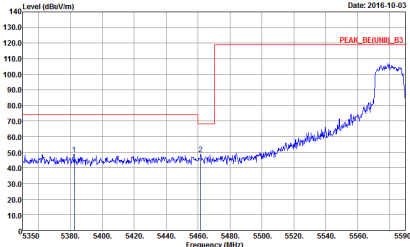
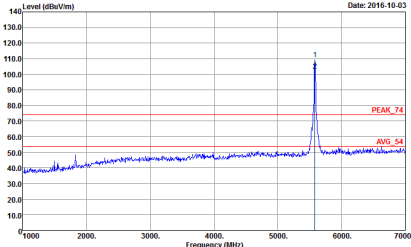
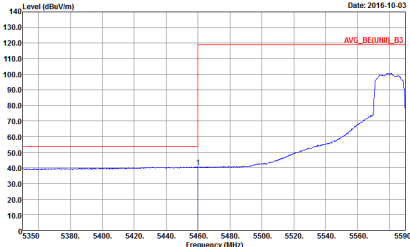


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

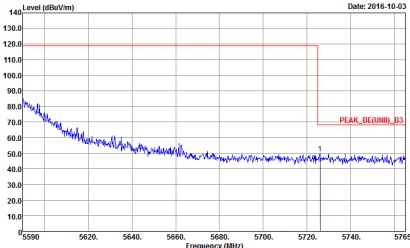


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak	<div><p>Site : 03CH07-MY Condition : PEAK_BE(UNIT)_B3 3m HF ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-HY Condition : PEAK_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK_F4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>
Avg.	<div><p>Site : 03CH07-HY Condition : AVG_BE(UNI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	Left blank

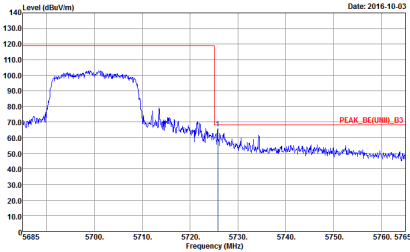
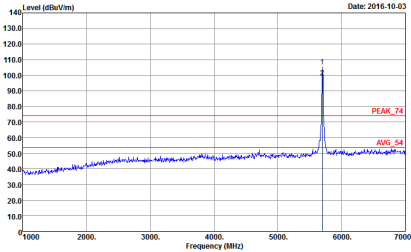


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
2	Vertical	Fundamental
Peak	<div><p>Site : 03CH07-MY Condition : PEAK_BE(UMI)_B3 3m HF ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 20</p></div>	Left blank



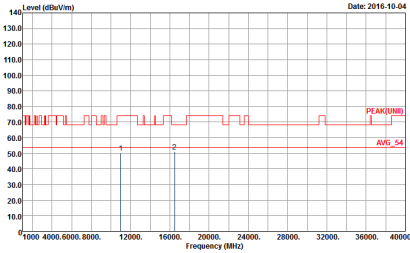
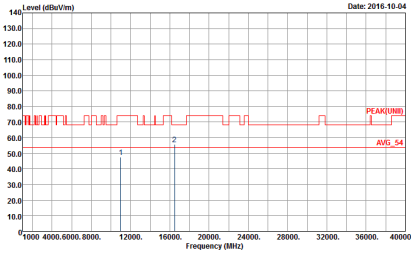
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Fundamental
Peak	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-03</p><p>PEAK_BE(UMI)_B3</p><p>Site : 03CH07-11Y Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 2016-10-03</p><p>PEAK_T4</p><p>AVG_54</p><p>Site : 03CH07-11Y Condition : PEAK_T4 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Vertical	Fundamental
Peak.	<div><p>Site : 63CH07-11Y Condition : PEAK_BE(UMI)_B3 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>	<div><p>Site : 63CH07-11Y Condition : PEAK_T4 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>



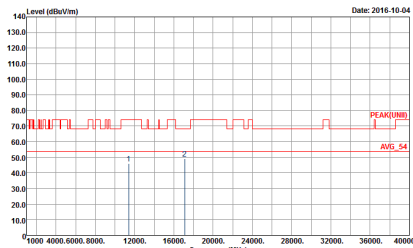
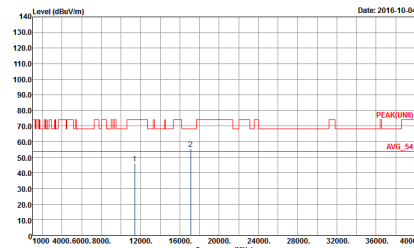
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK(UMB) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : F Plane : X Ant : 1 Setting : 19.5 68.3</p>	 <p>Site : 03CH07-HY Condition : PEAK(UMB) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : F Plane : X Ant : 1 Setting : 19.5 68.3</p>



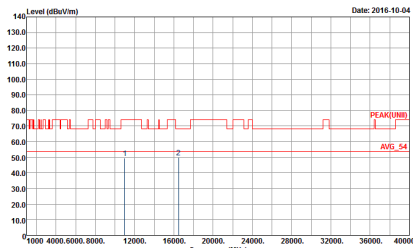
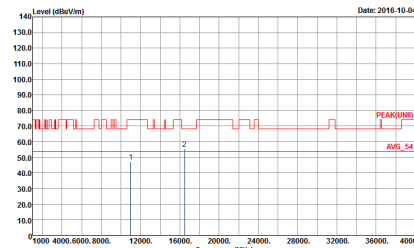
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 20 68.3</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UMI) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 8 Plane : X Ant : 1 Setting : 20 68.3</p></div>



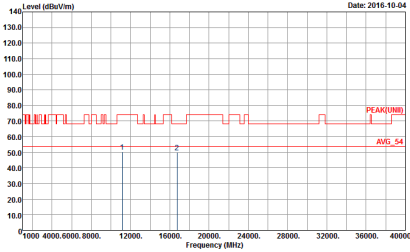
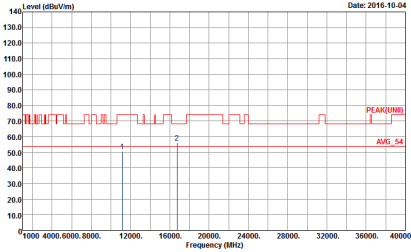
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK(UNB) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 : 68.3</p>	 <p>Site : 03CH07-HY Condition : PEAK(UNB) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 9 Plane : X Ant : 1 Setting : 17.5 : 68.3</p>



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

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07-HY Condition : PEAK(UMI) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK(UMI) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 19 Plane : X Ant : 1 Setting : 18.5</p></div>



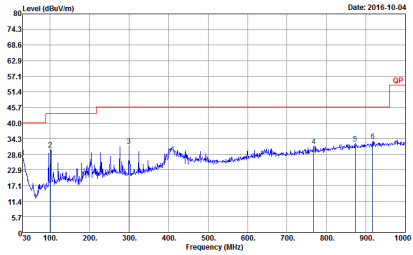
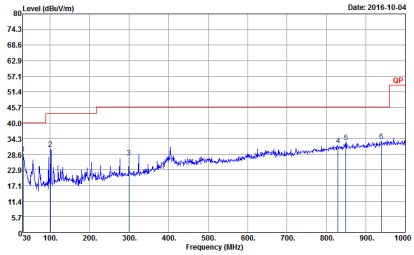
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07.HY Condition : PEAK(UM) 3m SHF.EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant. : 1 Setting : 20</p></div>	<div><p>Site : 03CH07.HY Condition : PEAK(UM) 3m SHF.EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant. : 1 Setting : 20</p></div>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH07-HY Condition : PEAK(UM) 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>	<div><p>Site : 03CH07-HY Condition : PEAK(UM) 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 692215 Mode : 20 Plane : X Ant : 1 Setting : 17</p></div>



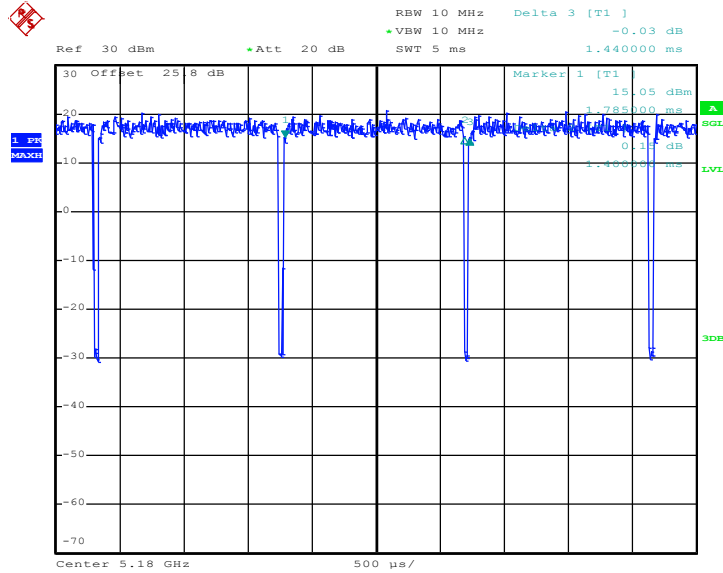
Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 <p>Site : 03CH07.HY Condition : QP 3m LF-ANT:35419(F) HORIZONTAL Detector : Peak Project : 692215 Mode : 29 Plane : X Ant : 1</p>	 <p>Site : 03CH07.HY Condition : QP 3m LF-ANT:35419(F) VERTICAL Detector : Peak Project : 692215 Mode : 29 Plane : X Ant : 1</p>

Appendix D Duty Cycle Plots

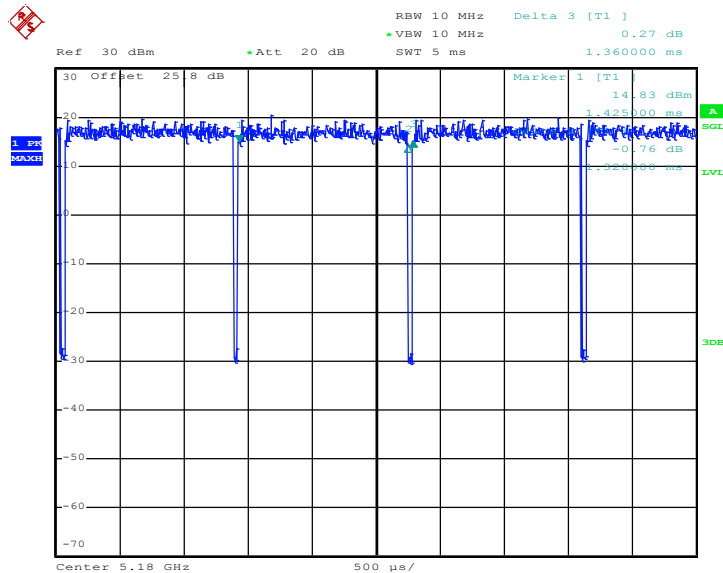
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	97.222	1400	0.71	1kHz
5GHz 802.11n HT20	97.052	1320	0.76	1kHz

802.11a



Date: 6.OCT.2016 21:10:04

5GHz 802.11n HT20



Date: 6.OCT.2016 21:57:45