



NCC RF Test Report

APPLICANT : 神基科技股份有限公司
EQUIPMENT : Wireless module
BRAND NAME : Getac
MODEL NAME : WLE200NX
MARKETING NAME : WLE200NX
STANDARD : NCC LP0002 (2016-08-23)

The product was received on May 23, 2017 and testing was completed on Aug. 31, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

Page Number : 1 of 31

Report Issued Date : Sep. 04, 2017

Report Version : Rev. 01

Report Template No.: BU5-TRLP0002WL5GAC Version 2.1



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Product Feature of Equipment Under Test.....	5
1.3 Modification of EUT	5
1.4 Testing Location	6
1.5 Applicable Standards.....	6
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode	8
2.3 Connection Diagram of Test System.....	9
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	10
2.6 Measurement Results Explanation Example.....	10
3 TEST RESULT	11
3.1 26dB & 99% Occupied Bandwidth Measurement	11
3.2 Maximum Conducted Output Power Measurement	13
3.3 Power Spectral Density Measurement	15
3.4 Unwanted Emissions Measurement	18
3.5 Test of Receiver Radiated Emission Measurement	22
3.6 AC Conducted Emission Measurement.....	25
3.7 Frequency Stability Measurement (Reporting Only)	27
3.8 Automatically Discontinue Transmission	28
3.9 Antenna Requirements.....	29
4 LIST OF MEASURING EQUIPMENT	30
5 UNCERTAINTY OF EVALUATION	31
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX E. DUTY CYCLE PLOTS	
APPENDIX F. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
TR752305B	Rev. 01	Initial issue of report	Sep. 04, 2017

SUMMARY OF TEST RESULT

Report Section	NCC Rule	Description	Limit	Result	Remark
3.1	LP0002 4.7.3	26dB & 99% Bandwidth	-	Pass	-
3.2	LP0002 4.7.3	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	LP0002 4.7.3	Power Spectral Density	≤ 11 dBm	Pass	-
3.4	LP0002 4.7.4	Unwanted Emissions	LP0002 4.7.4	Pass	Under limit 0.64 dB at 5350.080 MHz
3.5	LP0002 2.11	Receiver Radiated Emission	LP0002 2.8	Pass	Under limit 3.54 dB at 373.500 MHz
3.6	LP0002 2.3	AC Conducted Emission	LP0002 2.3	Pass	Under limit 14.70 dB at 0.574 MHz
3.7	-	Frequency Stability	-	Pass	-
3.8	LP0002 4.7.6	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.9	LP0002 2.2 4.7.8	Antenna Requirement	-	Pass	-



1 General Description

1.1 Applicant

神基科技股份有限公司
新竹科學工業園區新竹縣寶山鄉研發二路 1 號 4 樓

1.2 Product Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n and Wi-Fi 5GHz 802.11a/n

Product Specification subjective to this standard	
Installed into Notebook	Brand Name: Getac Model Name: B300G5
Antenna Type	WLAN: PIFA Antenna

1.3 Modification of EUT

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

1.4 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH10-HY	

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

1.5 Applicable Standards

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

- NCC LP0002 (2016-08-23)
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	-	-	128	5640
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	142*	5710		

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

2.2 Test Mode

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

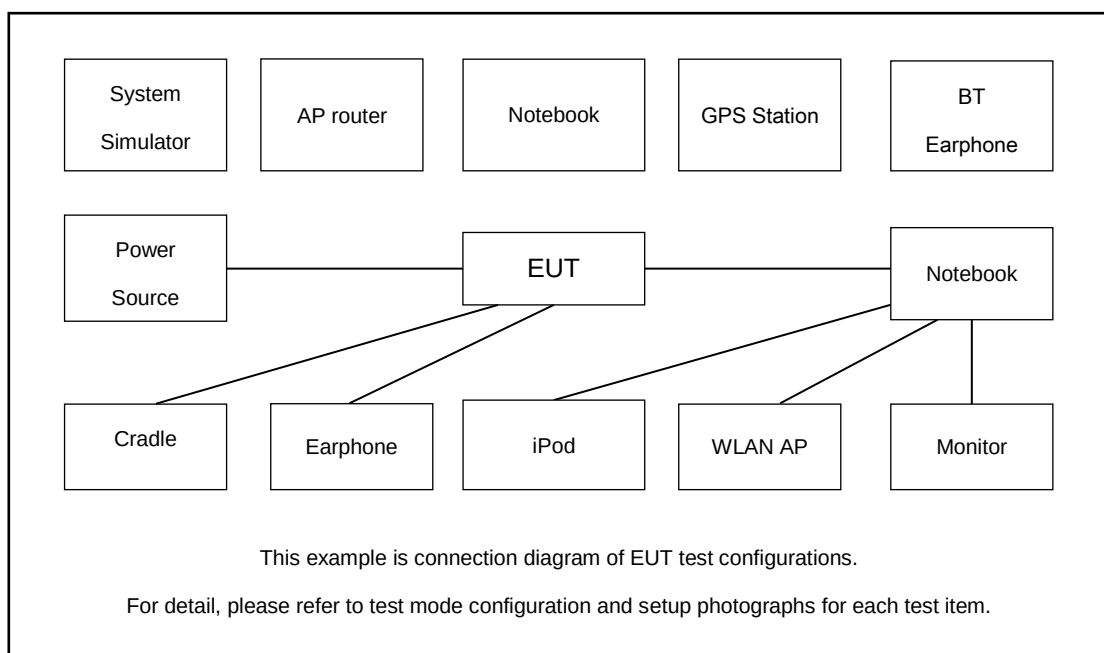
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + TF + TC Mode 2: WLAN (5GHz) Link + TF + TC Mode 3: WLAN (2.4GHz) Idle + TF + TC Mode 4: WLAN (5GHz) Idle + TF + TC
Receiver Radiated Emission	Mode 1 : WLAN (5GHz) Idle
Remark: - The worst case of conducted emission is mode 4; only the test data of it was reported. - TF stands for Test Function, and consists of H-Pattern and MPEG4. - TC stands for Test Configuration, and consists of SD Card, eSATA HD*2, USB HD, 1394a HD, Monitor (VGA Out), Monitor (HDMI Out), Modem (Serial Out), RS-232 Cable (Load), PCMCIA Card, Smart Card, Earphone with Mic, RJ-45 Link, Battery, and AC Adapter.	

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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
Straddle		-	-	142

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	Dell	2715Qt	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
4.	LCD Monitor	Dell	U2410	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
5.	e-SATA HD	WD	Studio Edition II	FCC DoC	Shielded, 1.05m	Unshielded,1.8m
6.	1394a HD	dataTale	TQ-M12H	FCC DoC	Shielded, 1.8m	Unshielded,1.8m
7.	USB HD	WD	WDBAAR3200ABK-PESN	FCC DoC	Shielded, 0.5m	Unshielded,1.8m
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
9.	Modem	ACCEX	DM1414	IFAXDM1414	Shielded, 1.5 m	N/A
10.	Earphone + Mic	Ergotech	ET-E200	FCC DoC	Unshielded, 1.8m	N/A
11.	PCMCIA Card	D-Link	DWL-650	KA2DWL-650V2	N/A	N/A
12.	Smart Card	N/A	N/A	N/A	N/A	N/A
13.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "art.exe" 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.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

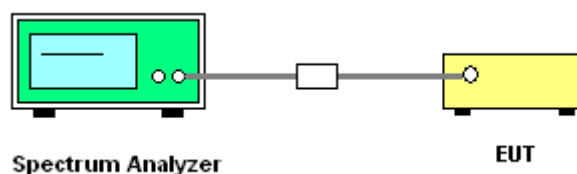
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

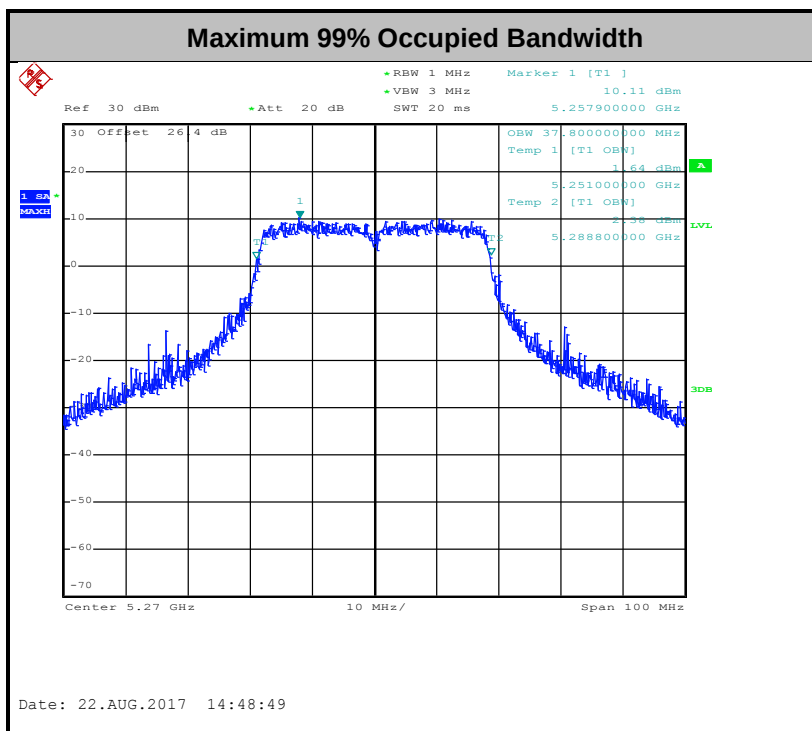
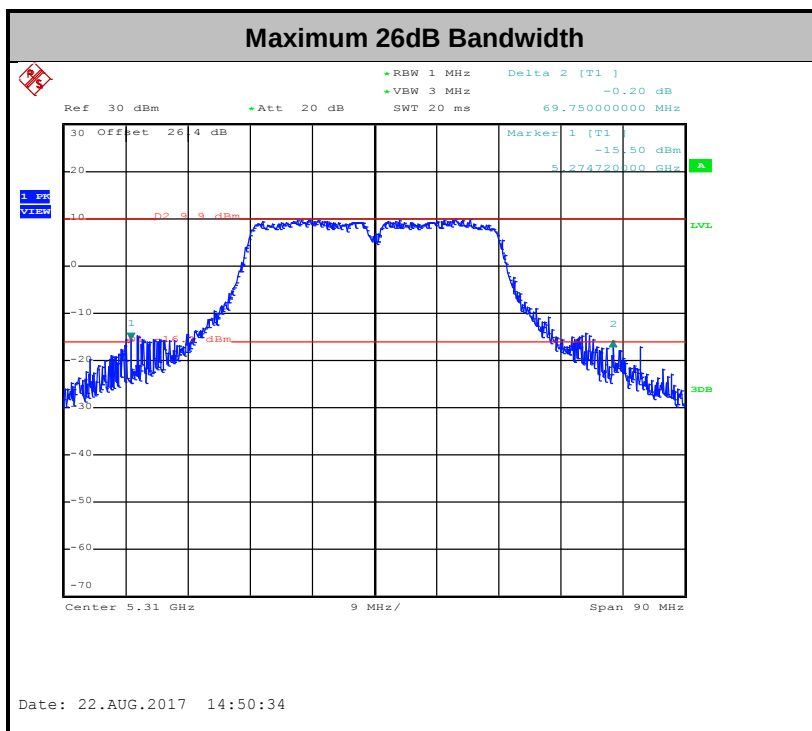
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB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

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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 26dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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.

For the 5.25–5.725 GHz bands, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

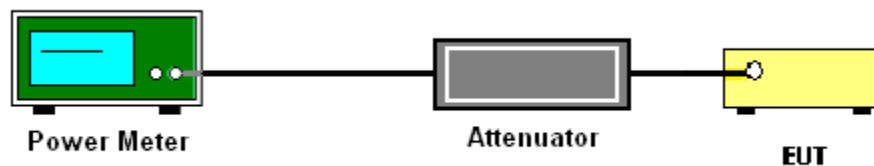
Method PM (Measurement using an RF average power meter):

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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

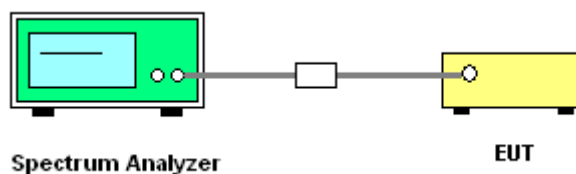
Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
-
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

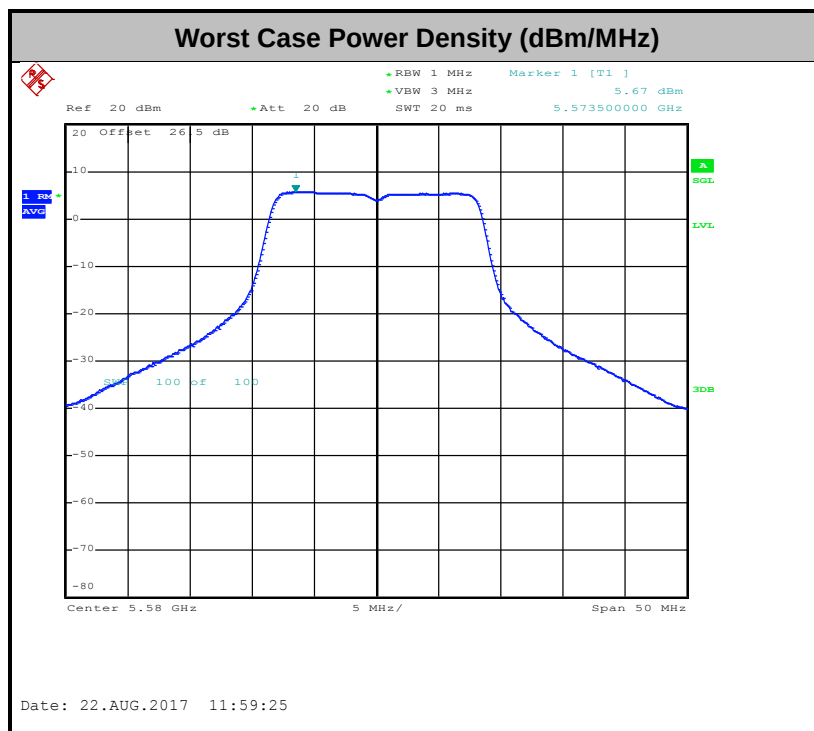
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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

3.4 Unwanted Emissions Measurement

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.15–5.725 GHz band: all emissions outside of the band shall not exceed an EIRP of –27dBm/MHz.
- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

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

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

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

- (3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

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

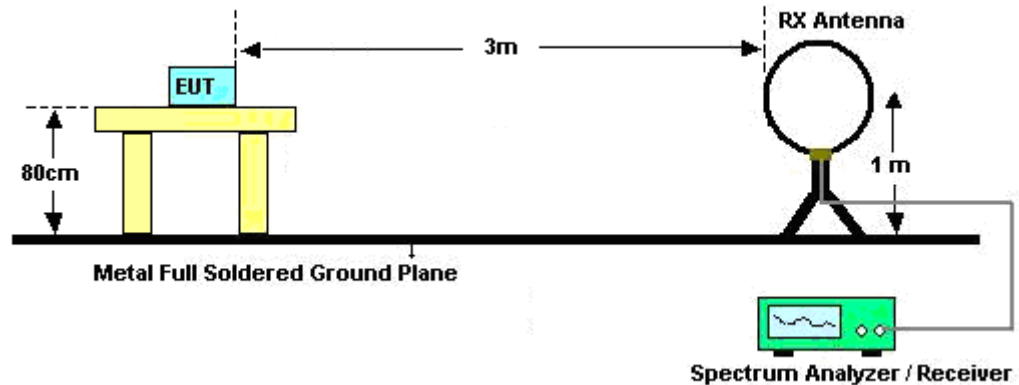
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 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

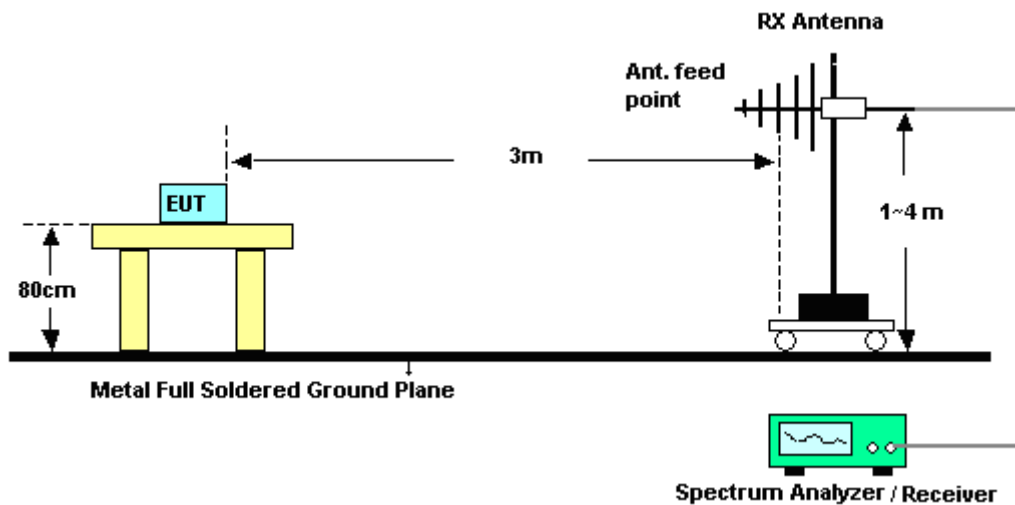
average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

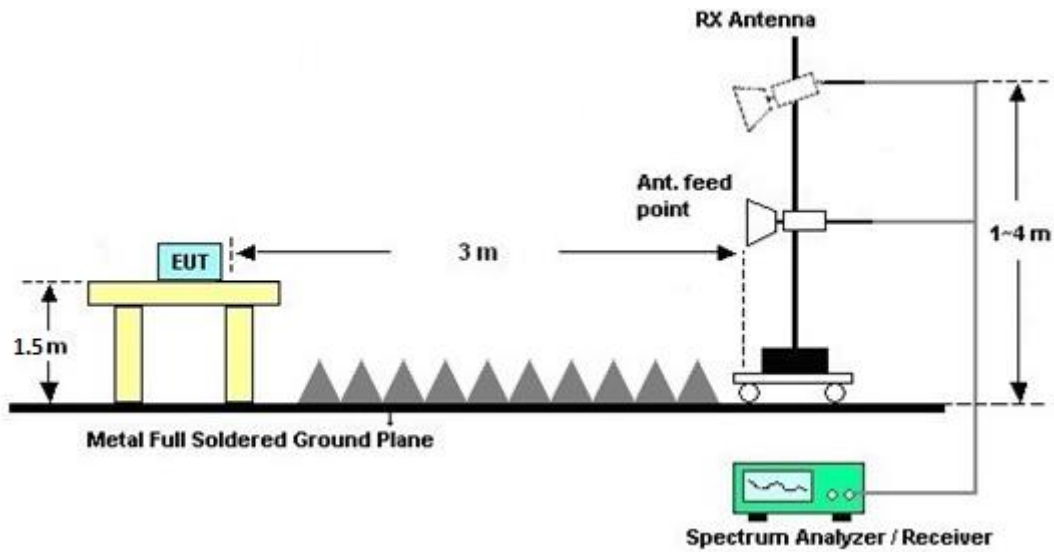
For radiated emissions below 30MHz



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 NCC LP0002 section 5.13 was not reported.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 Test of Receiver Radiated Emission Measurement

3.5.1 Limit of Receiver Radiated Emission

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

3.5.2 Measuring Instruments

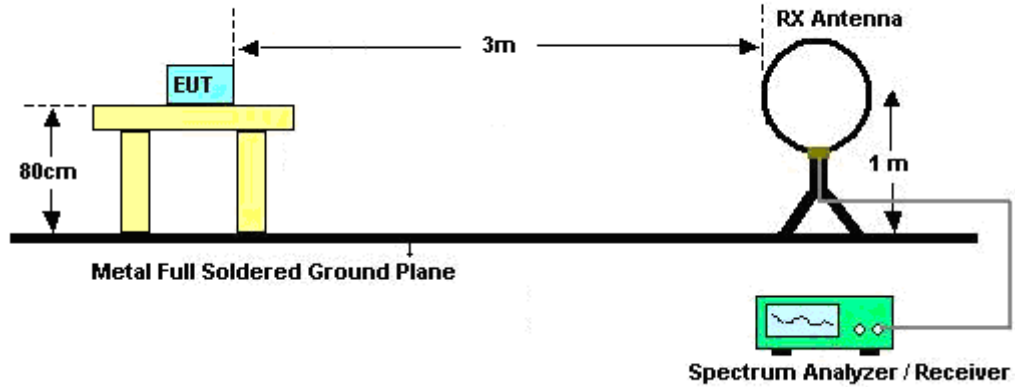
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

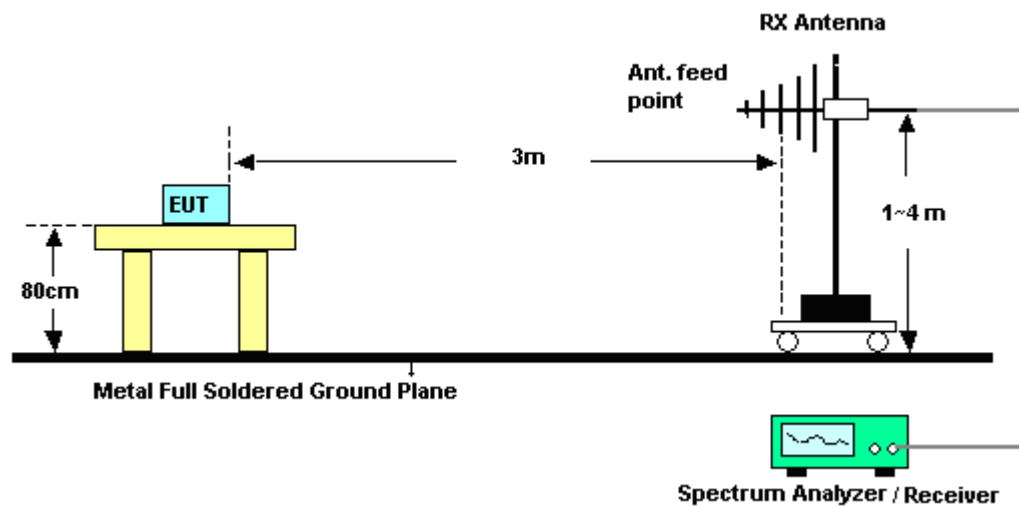
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to 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 tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.5.4 Test Setup

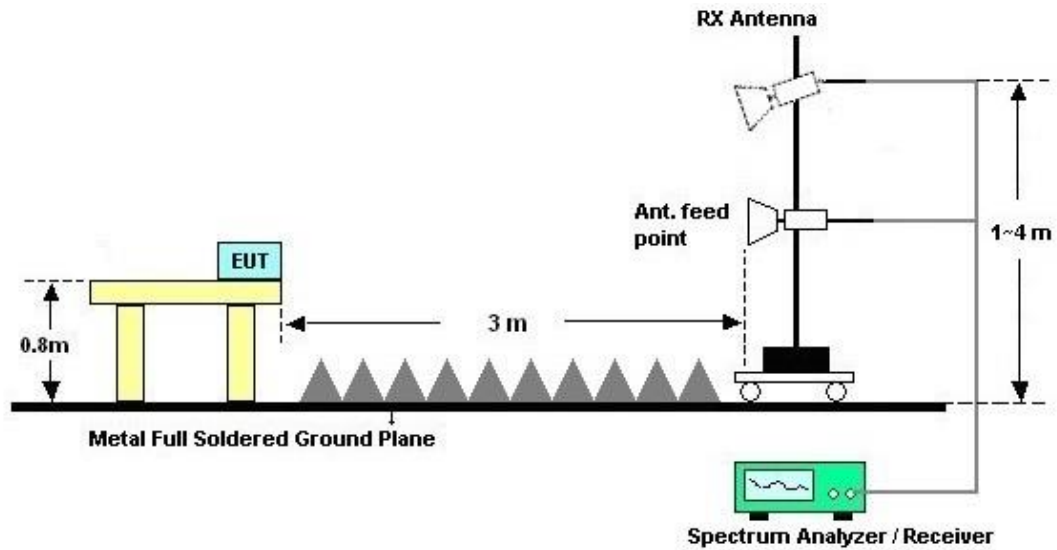
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Result of Receiver Radiated Spurious Emissions (9kHz ~ 30MHz)

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 NCC LP0002 section 5.13 was not reported.

3.5.6 Test Result of Receiver Radiated Spurious Emission (30MHz ~ 5th Harmonic)

Please refer to Appendix D.

3.6 AC Conducted Emission Measurement

3.6.1 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.

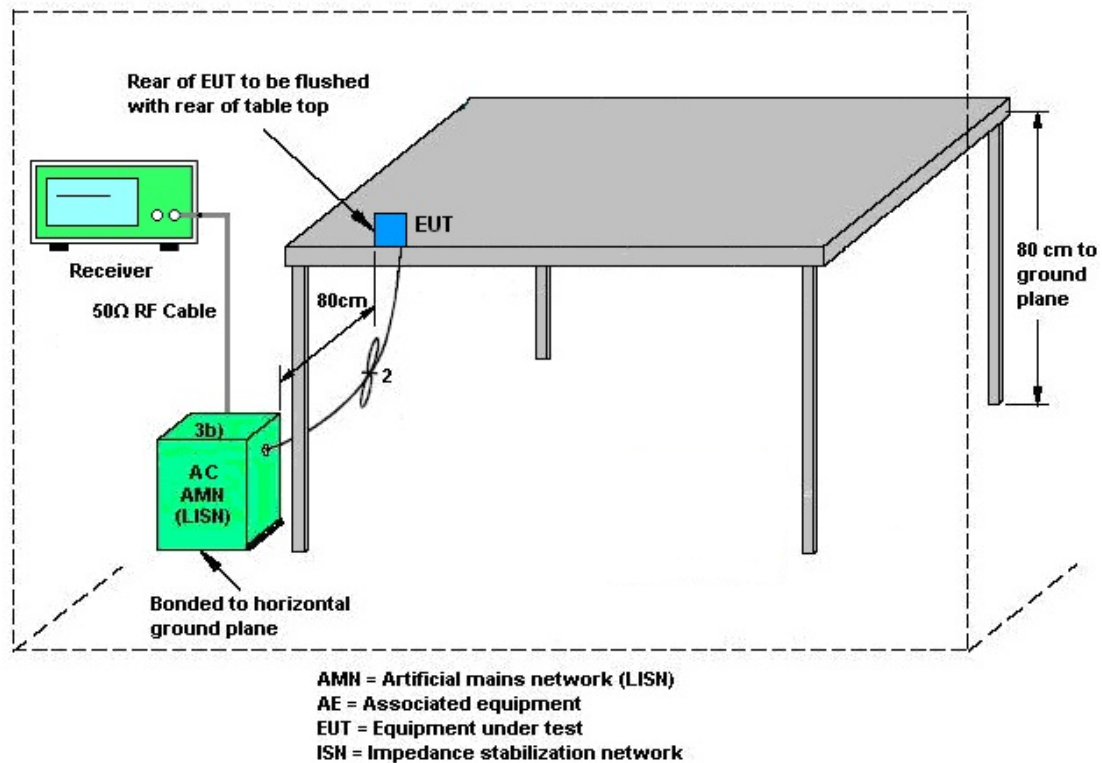
3.6.2 Measuring Instruments

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

3.6.3 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Frequency Stability Measurement (Reporting Only)

3.7.1 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.

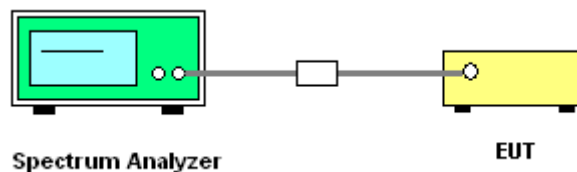
3.7.2 Measuring Instruments

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

3.7.3 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.

3.7.4 Test Setup



3.7.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.8 Automatically Discontinue Transmission

3.8.1 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.

3.8.2 Measuring Instruments

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

3.8.3 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.



3.9 Antenna Requirements

3.9.1 Standard Applicable

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

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 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 Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Aug. 18, 2017~ Aug. 29, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Aug. 18, 2017~ Aug. 29, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 25, 2016	Aug. 18, 2017~ Aug. 29, 2017	Nov. 24, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Jun. 07, 2017	Aug. 18, 2017~ Aug. 29, 2017	Jun. 06, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Aug. 18, 2017~ Aug. 29, 2017	Oct. 10, 2017	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Dec 01.2016	Aug. 18, 2017~ Aug. 29, 2017	Nov 30 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 31, 2017	N/A	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Aug. 31, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Aug. 31, 2017	Dec. 05, 2017	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Aug. 31, 2017	Dec. 28, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Aug. 24, 2017~ Aug. 28, 2017	Oct. 19, 2018	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Jan. 07, 2017	Aug. 24, 2017~ Aug. 28, 2017	Jan. 06, 2018	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2016	Aug. 24, 2017~ Aug. 28, 2017	Sep. 29, 2017	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 08, 2016	Aug. 24, 2017~ Aug. 28, 2017	Nov. 07, 2017	Radiation (03CH10-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 26, 2016	Aug. 24, 2017~ Aug. 28, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JPA00101800- 30-10P	16011855000 4	1GHz~18GHz	Apr. 13, 2017	Aug. 24, 2017~ Aug. 28, 2017	Apr. 12, 2018	Radiation (03CH10-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800	2025787	1GHz~18GHZ	Feb. 13, 2017	Aug. 24, 2017~ Aug. 28, 2017	Feb. 12, 2018	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Oct. 26, 2016	Aug. 24, 2017~ Aug. 28, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Aug. 24, 2017~ Aug. 28, 2017	Jul. 17, 2018	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz to 26.5GHz	Jan. 12, 2017	Aug. 24, 2017~ Aug. 28, 2017	Jan. 11, 2018	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 17, 2016	Aug. 24, 2017~ Aug. 28, 2017	Oct. 16, 2017	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 24, 2017~ Aug. 28, 2017	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Aug. 24, 2017~ Aug. 28, 2017	N/A	Radiation (03CH10-HY)

5 Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
--	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.90
--	------

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin	Temperature:	21~25	°C
Test Date:	2017/08/18 ~ 2017/08/29	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		
11a	6Mbps	1	36	5180	18.50	30.30	-	22.67		
11a	6Mbps	1	44	5220	18.85	31.35	-	22.75		
11a	6Mbps	1	48	5240	18.95	31.30	-	22.78		
HT20	MCS0	1	36	5180	19.80	30.85	-	22.97		
HT20	MCS0	1	44	5220	19.70	29.85	-	22.94		
HT20	MCS0	1	48	5240	19.95	30.10	-	23.00		
HT40	MCS0	1	38	5190	37.60	68.12	-	23.01		
HT40	MCS0	1	46	5230	37.70	67.14	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.03	16.43	24.00	-1.01		Pass
11a	6Mbps	1	44	5220	0.03	16.28	24.00	-1.01		Pass
11a	6Mbps	1	48	5240	0.03	16.35	24.00	-1.01		Pass
HT20	MCS0	1	36	5180	0.03	16.46	24.00	-1.01		Pass
HT20	MCS0	1	44	5220	0.03	16.35	24.00	-1.01		Pass
HT20	MCS0	1	48	5240	0.03	16.39	24.00	-1.01		Pass
HT40	MCS0	1	38	5190	0.06	15.86	24.00	-1.01		Pass
HT40	MCS0	1	46	5230	0.06	16.29	24.00	-1.01		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	0.03	5.31	11.00	-1.01		Pass
11a	6Mbps	1	44	5220	0.03	4.79	11.00	-1.01		Pass
11a	6Mbps	1	48	5240	0.03	4.74	11.00	-1.01		Pass
HT20	MCS0	1	36	5180	0.03	5.13	11.00	-1.01		Pass
HT20	MCS0	1	44	5220	0.03	4.57	11.00	-1.01		Pass
HT20	MCS0	1	48	5240	0.03	4.62	11.00	-1.01		Pass
HT40	MCS0	1	38	5190	0.06	1.75	11.00	-1.01		Pass
HT40	MCS0	1	46	5230	0.06	1.72	11.00	-1.01		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6M bps	1	52	5260	18.95	28.30	23.78	29.78	23.98	
11a	6M bps	1	60	5300	19.10	30.45	23.81	29.81	23.98	
11a	6M bps	1	64	5320	19.00	30.35	23.79	29.79	23.98	
HT20	MCS 0	1	52	5260	19.75	29.10	23.96	29.96	23.98	
HT20	MCS 0	1	60	5300	19.80	30.20	23.97	29.97	23.98	
HT20	MCS 0	1	64	5320	19.95	28.95	23.98	30.00	23.98	
HT40	MCS 0	1	54	5270	37.80	67.61	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	37.60	69.75	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	52	5260	0.03	15.69	23.98	-1.01	26.99	Pass
11a	6M bps	1	60	5300	0.03	15.74	23.98	-1.01	26.99	Pass
11a	6M bps	1	64	5320	0.03	15.83	23.98	-1.01	26.99	Pass
HT20	MCS 0	1	52	5260	0.03	15.70	23.98	-1.01	26.99	Pass
HT20	MCS 0	1	60	5300	0.03	15.75	23.98	-1.01	26.99	Pass
HT20	MCS 0	1	64	5320	0.03	15.85	23.98	-1.01	26.99	Pass
HT40	MCS 0	1	54	5270	0.06	15.89	23.98	-1.01	26.99	Pass
HT40	MCS 0	1	62	5310	0.06	15.34	23.98	-1.01	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	0.03	4.01	11.00	-1.01		Pass
11a	6M bps	1	60	5300	0.03	4.00	11.00	-1.01		Pass
11a	6M bps	1	64	5320	0.03	3.90	11.00	-1.01		Pass
HT20	MCS 0	1	52	5260	0.03	3.94	11.00	-1.01		Pass
HT20	MCS 0	1	60	5300	0.03	3.94	11.00	-1.01		Pass
HT20	MCS 0	1	64	5320	0.03	3.80	11.00	-1.01		Pass
HT40	MCS 0	1	54	5270	0.06	0.93	11.00	-1.01		Pass
HT40	MCS 0	1	62	5310	0.06	0.12	11.00	-1.01		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III										
Mod.	Data Rate	N _{TX}	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	18.95	32.30	23.78	29.78	23.98	
11a	6M bps	1	116	5580	19.00	30.85	23.79	29.79	23.98	
11a	6M bps	1	140	5700	18.70	28.70	23.72	29.72	23.98	
11a	6Mbps	1	144	5720	18.90	29.05	23.76	29.76	23.98	
HT20	MCS 0	1	100	5500	20.00	29.00	23.98	30.00	23.98	
HT20	MCS 0	1	116	5580	19.95	34.40	23.98	30.00	23.98	
HT20	MCS 0	1	140	5700	19.95	30.85	23.98	30.00	23.98	
HT20	MCS0	1	144	5720	19.95	30.95	23.98	30.00	23.98	
HT40	MCS 0	1	102	5510	37.60	69.02	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	37.80	66.83	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	37.60	67.74	23.98	30.00	23.98	
HT40	MCS0	1	142	5710	37.60	68.42	23.98	30.00	23.98	

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	0.03	15.85	23.98	-0.30	26.99	Pass
11a	6M bps	1	116	5580	0.03	15.62	23.98	-0.30	26.99	Pass
11a	6M bps	1	140	5700	0.03	15.61	23.98	-0.30	26.99	Pass
11a	6M bps	1	144	5720	0.03	15.73	23.98	-0.30	26.99	Pass
HT20	MCS 0	1	100	5500	0.03	15.88	23.98	-0.30	26.99	Pass
HT20	MCS 0	1	116	5580	0.03	15.70	23.98	-0.30	26.99	Pass
HT20	MCS 0	1	140	5700	0.03	15.62	23.98	-0.30	26.99	Pass
HT20	MCS 0	1	144	5720	0.03	15.75	23.98	-0.30	26.99	Pass
HT40	MCS 0	1	102	5510	0.06	15.90	23.98	-0.30	26.99	Pass
HT40	MCS 0	1	110	5550	0.06	15.88	23.98	-0.30	26.99	Pass
HT40	MCS 0	1	134	5670	0.06	15.82	23.98	-0.30	26.99	Pass
HT40	MCS 0	1	142	5710	0.06	15.68	23.98	-0.30	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.03	5.58	11.00	-0.30		Pass
11a	6M bps	1	116	5580	0.03	5.70	11.00	-0.30		Pass
11a	6M bps	1	140	5700	0.03	4.48	11.00	-0.30		Pass
11a	6Mbps	1	144	5720	0.03	4.57	11.00	-0.30		Pass
HT20	MCS 0	1	100	5500	0.03	4.86	11.00	-0.30		Pass
HT20	MCS 0	1	116	5580	0.03	5.50	11.00	-0.30		Pass
HT20	MCS 0	1	140	5700	0.03	4.14	11.00	-0.30		Pass
HT20	MCS0	1	144	5720	0.03	4.51	11.00	-0.30		Pass
HT40	MCS 0	1	102	5510	0.06	2.37	11.00	-0.30		Pass
HT40	MCS 0	1	110	5550	0.06	2.38	11.00	-0.30		Pass
HT40	MCS 0	1	134	5670	0.06	1.59	11.00	-0.30		Pass
HT40	MCS0	1	142	5710	0.06	1.25	11.00	-0.30		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	5179.975	-0.025	-4.83	50	10.8	
11a	6Mbps	1	36	5180	5180.025	0.025	4.83	-30	10.8	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	10.9	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	10.7	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	10.8	

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	5320.025	0.025	4.70	50	10.8	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	-30	10.8	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	10.9	
11a	6Mbps	1	64	5320	5319.975	-0.025	-4.70	20	10.7	
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	20	10.8	

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	5500.000	0.000	0.00	50	10.8	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	10.8	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	10.9	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	10.7	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	20	10.8	



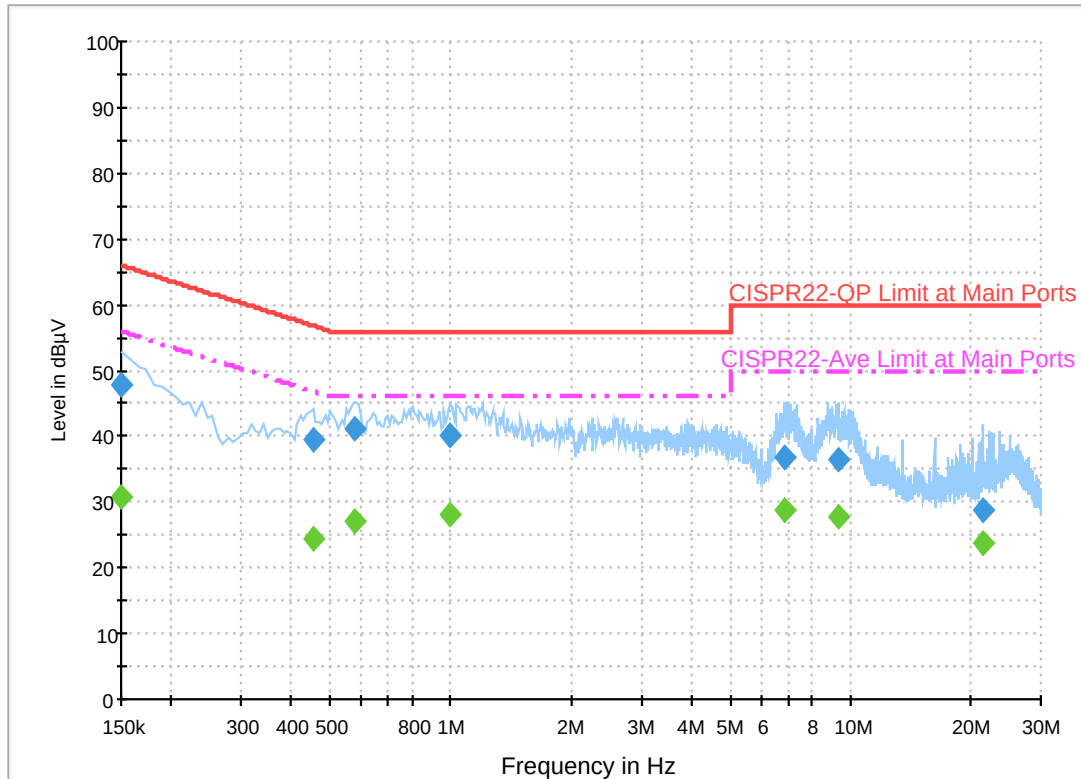
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	Temperature :	26~27°C
		Relative Humidity :	58~62%

EUT Information

Report NO : 752305
Test Mode : Mode 4
Test Voltage : 110Vac/60Hz
Phase : Line

ENV216 Auto Test-L



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	48.0	Off	L1	19.6	18.0	66.0
0.454000	39.4	Off	L1	19.5	17.4	56.8
0.574000	41.3	Off	L1	19.5	14.7	56.0
0.998000	40.3	Off	L1	19.5	15.7	56.0
6.870000	36.8	Off	L1	19.6	23.2	60.0
9.310000	36.5	Off	L1	19.7	23.5	60.0
21.542000	28.8	Off	L1	19.8	31.2	60.0

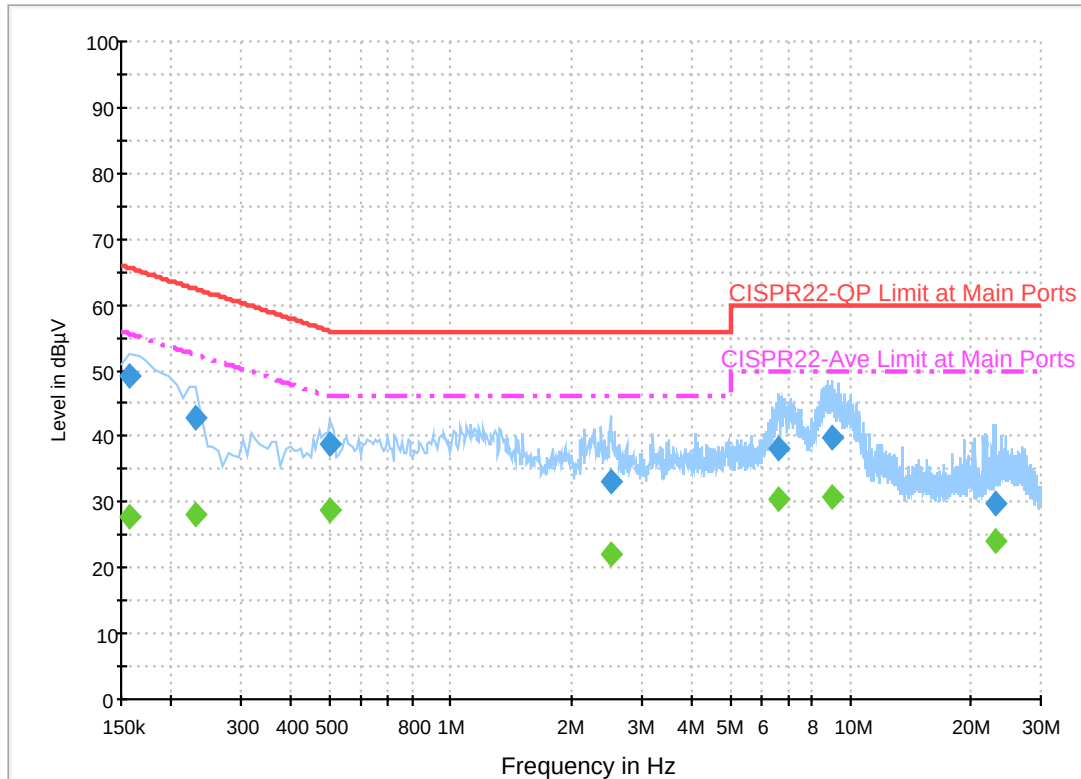
Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	30.6	Off	L1	19.6	25.4	56.0
0.454000	24.5	Off	L1	19.5	22.3	46.8
0.574000	27.3	Off	L1	19.5	18.7	46.0
0.998000	28.1	Off	L1	19.5	17.9	46.0
6.870000	28.7	Off	L1	19.6	21.3	50.0
9.310000	27.8	Off	L1	19.7	22.2	50.0
21.542000	23.7	Off	L1	19.8	26.3	50.0

EUT Information

Report NO : 752305
Test Mode : Mode 4
Test Voltage : 110Vac/60Hz
Phase : Neutral

ENV216 Auto Test-N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	49.1	Off	N	19.5	16.5	65.6
0.230000	42.9	Off	N	19.5	19.5	62.4
0.502000	38.7	Off	N	19.5	17.3	56.0
2.510000	33.0	Off	N	19.2	23.0	56.0
6.646000	38.0	Off	N	19.6	22.0	60.0
9.030000	39.8	Off	N	19.7	20.2	60.0
23.166000	29.6	Off	N	19.9	30.4	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	27.8	Off	N	19.5	27.8	55.6
0.230000	28.2	Off	N	19.5	24.2	52.4
0.502000	28.6	Off	N	19.5	17.4	46.0
2.510000	22.2	Off	N	19.2	23.8	46.0
6.646000	30.5	Off	N	19.6	19.5	50.0
9.030000	30.6	Off	N	19.7	19.4	50.0
23.166000	24.2	Off	N	19.9	25.8	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Tsung Li, Stan Hsieh, and Kyle Chuang	Temperature :	24~26°C
		Relative Humidity :	45~47%

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5148.72	52.9	-21.1	74	46.33	32.5	6.61	32.54	197	69	P	H
		5150	44.36	-9.64	54	37.79	32.5	6.61	32.54	197	69	A	H
	*	5180	109.36	-	-	102.76	32.5	6.64	32.54	197	69	P	H
	*	5180	101.61	-	-	95.01	32.5	6.64	32.54	197	69	A	H
													H
													H
		5146.9	53.35	-20.65	74	46.78	32.5	6.61	32.54	228	86	P	V
		5150	44.66	-9.34	54	38.09	32.5	6.61	32.54	228	86	A	V
	*	5180	110.93	-	-	104.33	32.5	6.64	32.54	228	86	P	V
	*	5180	102.61	-	-	96.01	32.5	6.64	32.54	228	86	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5119.6	51.8	-22.2	74	45.25	32.5	6.59	32.54	191	69	P	H
		5104	42.8	-11.2	54	36.26	32.5	6.57	32.53	191	69	A	H
	*	5220	110.06	-	-	103.43	32.5	6.67	32.54	191	69	P	H
	*	5220	102.17	-	-	95.54	32.5	6.67	32.54	191	69	A	H
		5362.84	52.12	-21.88	74	45.37	32.5	6.79	32.54	191	69	P	H
		5357.52	43.44	-10.56	54	36.71	32.5	6.77	32.54	191	69	A	H
		5038.22	51.12	-22.88	74	44.61	32.5	6.54	32.53	247	85	P	V
		5104	42.83	-11.17	54	36.29	32.5	6.57	32.53	247	85	A	V
	*	5220	111.35	-	-	104.72	32.5	6.67	32.54	247	85	P	V
	*	5220	102.6	-	-	95.97	32.5	6.67	32.54	247	85	A	V
		5403.72	52.8	-21.2	74	46.03	32.5	6.82	32.55	247	85	P	V
		5359.76	44.41	-9.59	54	37.66	32.5	6.79	32.54	247	85	A	V



802.11n HT20 CH 48 5240MHz		5097.5	52.18	-21.82	74	45.64	32.5	6.57	32.53	191	69	P	H
		5104	42.22	-11.78	54	35.68	32.5	6.57	32.53	191	69	A	H
	*	5240	110.01	-	-	103.37	32.5	6.68	32.54	191	69	P	H
	*	5240	101.77	-	-	95.13	32.5	6.68	32.54	191	69	A	H
		5350.8	52.61	-21.39	74	45.88	32.5	6.77	32.54	191	69	P	H
		5357.24	43.13	-10.87	54	36.4	32.5	6.77	32.54	191	69	A	H
		5109.46	51.85	-22.15	74	45.29	32.5	6.59	32.53	247	85	P	V
		5104	42.25	-11.75	54	35.71	32.5	6.57	32.53	247	85	A	V
	*	5240	111.01	-	-	104.37	32.5	6.68	32.54	247	85	P	V
	*	5240	102.79	-	-	96.15	32.5	6.68	32.54	247	85	A	V
		5363.4	52.18	-21.82	74	45.43	32.5	6.79	32.54	247	85	P	V
		5356.12	44.13	-9.87	54	37.4	32.5	6.77	32.54	247	85	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		10360	49.87	-24.13	74	65.33	38.87	10.33	65.2	100	0	P	H
		15540	47.12	-26.88	74	58.25	38.49	13.6	63.98	100	0	P	H
													H
													H
		10360	49.53	-24.47	74	64.99	38.87	10.33	65.2	100	0	P	V
		15540	44.08	-29.92	74	55.21	38.49	13.6	63.98	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	49.08	-24.92	74	64.52	38.93	10.29	65.2	100	0	P	H
		15660	47.04	-26.96	74	58.37	38.44	13.72	64.24	100	0	P	H
													H
													H
		10440	47.64	-26.36	74	63.08	38.93	10.29	65.2	100	0	P	V
		15660	44.49	-29.51	74	55.82	38.44	13.72	64.24	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	48.01	-25.99	74	63.43	38.98	10.26	65.2	100	0	P	H
		15720	44.89	-29.11	74	56.36	38.41	13.77	64.39	100	0	P	H
													H
													H
		10480	47.75	-26.25	74	63.17	38.98	10.26	65.2	100	0	P	V
		15720	43.7	-30.3	74	55.17	38.41	13.77	64.39	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		5147.42	65.94	-8.06	74	59.37	32.5	6.61	32.54	197	69	P	H
		5149.5	52.99	-1.01	54	46.42	32.5	6.61	32.54	197	69	A	H
	*	5190	106.21	-	-	99.61	32.5	6.64	32.54	197	69	P	H
	*	5190	98.09	-	-	91.49	32.5	6.64	32.54	197	69	A	H
		5381.88	52.88	-21.12	74	46.13	32.5	6.8	32.55	197	69	P	H
		5351.92	42.9	-11.1	54	36.17	32.5	6.77	32.54	197	69	A	H
		5146.12	63.19	-10.81	74	56.62	32.5	6.61	32.54	228	86	P	V
		5149.76	53.13	-0.87	54	46.56	32.5	6.61	32.54	228	86	A	V
	*	5190	106.31	-	-	99.71	32.5	6.64	32.54	228	86	P	V
	*	5190	98.66	-	-	92.06	32.5	6.64	32.54	228	86	A	V
		5395.88	54.84	-19.16	74	48.07	32.5	6.82	32.55	228	86	P	V
		5354.72	44.15	-9.85	54	37.42	32.5	6.77	32.54	228	86	A	V
802.11n HT40 CH 46 5230MHz		5127.4	52.86	-21.14	74	46.3	32.5	6.6	32.54	191	69	P	H
		5104	42.55	-11.45	54	36.01	32.5	6.57	32.53	191	69	A	H
	*	5230	105.78	-	-	99.15	32.5	6.67	32.54	191	69	P	H
	*	5230	98.76	-	-	92.13	32.5	6.67	32.54	191	69	A	H
		5373.76	52.04	-21.96	74	45.3	32.5	6.79	32.55	191	69	P	H
		5358.36	43.12	-10.88	54	36.37	32.5	6.79	32.54	191	69	A	H
		5121.68	51.87	-22.13	74	45.32	32.5	6.59	32.54	240	86	P	V
		5104	42.34	-11.66	54	35.8	32.5	6.57	32.53	240	86	A	V
	*	5230	107.69	-	-	101.06	32.5	6.67	32.54	240	86	P	V
	*	5230	99.66	-	-	93.03	32.5	6.67	32.54	240	86	A	V
		5355.28	52.66	-21.34	74	45.93	32.5	6.77	32.54	240	86	P	V
		5350	44.05	-9.95	54	37.32	32.5	6.77	32.54	240	86	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5119.34	50.23	-23.77	74	43.68	32.5	6.59	32.54	191	69	P	H
		5104.04	41.54	-12.46	54	35	32.5	6.57	32.53	191	69	A	H
	*	5260	109.01	-	-	102.35	32.5	6.7	32.54	191	69	P	H
	*	5260	101.16	-	-	94.5	32.5	6.7	32.54	191	69	A	H
		5392.8	51.87	-22.13	74	45.12	32.5	6.8	32.55	191	69	P	H
		5359.44	42.34	-11.66	54	35.59	32.5	6.79	32.54	191	69	A	H
		5143.14	48.91	-25.09	74	42.34	32.5	6.61	32.54	270	82	P	V
		5147.9	40.55	-13.45	54	33.98	32.5	6.61	32.54	270	82	A	V
	*	5260	109.42	-	-	102.76	32.5	6.7	32.54	270	82	P	V
	*	5260	101.66	-	-	95	32.5	6.7	32.54	270	82	A	V
		5383.44	53.91	-20.09	74	47.16	32.5	6.8	32.55	270	82	P	V
		5369.28	43.65	-10.35	54	36.9	32.5	6.79	32.54	270	82	A	V
802.11n HT20 CH 60 5300MHz		5123.76	50.32	-23.68	74	43.77	32.5	6.59	32.54	123	69	P	H
		5104.04	41.88	-12.12	54	35.34	32.5	6.57	32.53	123	69	A	H
	*	5300	108.73	-	-	102.04	32.5	6.73	32.54	123	69	P	H
	*	5300	101.18	-	-	94.49	32.5	6.73	32.54	123	69	A	H
		5359.92	51.4	-22.6	74	44.65	32.5	6.79	32.54	123	69	P	H
		5368.08	41.65	-12.35	54	34.9	32.5	6.79	32.54	123	69	A	H
		5073.44	49.65	-24.35	74	43.12	32.5	6.56	32.53	288	88	P	V
		5104.04	40.77	-13.23	54	34.23	32.5	6.57	32.53	288	88	A	V
	*	5300	109.65	-	-	102.96	32.5	6.73	32.54	288	88	P	V
	*	5300	101.79	-	-	95.1	32.5	6.73	32.54	288	88	A	V
		5378.4	51.01	-22.99	74	44.26	32.5	6.8	32.55	288	88	P	V
		5350.08	42.28	-11.72	54	35.55	32.5	6.77	32.54	288	88	A	V



802.11n HT20 CH 64 5320MHz	*	5320	108.96	-	-	102.26	32.5	6.74	32.54	123	69	P	H
	*	5320	101.26	-	-	94.56	32.5	6.74	32.54	123	69	A	H
		5458.24	50.75	-23.25	74	43.94	32.5	6.86	32.55	123	69	P	H
		5350.08	42.3	-11.7	54	35.57	32.5	6.77	32.54	123	69	A	H
													H
													H
	*	5320	109.7	-	-	103	32.5	6.74	32.54	287	88	P	V
	*	5320	101.95	-	-	95.25	32.5	6.74	32.54	287	88	A	V
		5351.52	52.58	-21.42	74	45.85	32.5	6.77	32.54	287	88	P	V
		5350.08	43.08	-10.92	54	36.35	32.5	6.77	32.54	287	88	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		10520	47.71	-26.29	74	63.08	39.05	10.24	65.2	100	0	P	H
		15780	47.18	-26.82	74	58.74	38.39	13.82	64.51	100	0	P	H
													H
													H
		10520	46.32	-27.68	74	61.69	39.05	10.24	65.2	100	0	P	V
		15780	45.25	-28.75	74	56.81	38.39	13.82	64.51	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	48.77	-25.23	74	63.9	39.31	10.2	65.18	100	0	P	H
		15900	43.96	-30.04	74	55.72	38.34	13.94	64.77	100	0	P	H
													H
													H
		10600	49.19	-24.81	74	64.32	39.31	10.2	65.18	100	0	P	V
		15900	44.89	-29.11	74	56.65	38.34	13.94	64.77	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	46.77	-27.23	74	61.81	39.41	10.19	65.17	100	0	P	H
		15960	44.09	-29.91	74	55.99	38.31	13.99	64.92	100	0	P	H
													H
													H
		10640	46.9	-27.1	74	61.94	39.41	10.19	65.17	100	0	P	V
		15960	49.4	-24.6	74	61.3	38.31	13.99	64.92	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		5095.88	50.34	-23.66	74	43.8	32.5	6.57	32.53	194	68	P	H
		5104.04	41.61	-12.39	54	35.07	32.5	6.57	32.53	194	68	A	H
	*	5270	106.27	-	-	99.6	32.5	6.71	32.54	194	68	P	H
	*	5270	95.8	-	-	89.13	32.5	6.71	32.54	194	68	A	H
		5419.68	50.39	-23.61	74	43.61	32.5	6.83	32.55	194	68	P	H
		5351.28	41.98	-12.02	54	35.25	32.5	6.77	32.54	194	68	A	H
		5123.08	50.12	-23.88	74	43.57	32.5	6.59	32.54	232	85	P	V
		5104.04	41.74	-12.26	54	35.2	32.5	6.57	32.53	232	85	A	V
	*	5270	106.3	-	-	99.63	32.5	6.71	32.54	232	85	P	V
	*	5270	96.87	-	-	90.2	32.5	6.71	32.54	232	85	A	V
		5389.44	52.38	-21.62	74	45.63	32.5	6.8	32.55	232	85	P	V
		5352.72	42.75	-11.25	54	36.02	32.5	6.77	32.54	232	85	A	V
802.11n HT40 CH 62 5310MHz		5107.44	49.87	-24.13	74	43.31	32.5	6.59	32.53	196	68	P	H
		5104.04	41.67	-12.33	54	35.13	32.5	6.57	32.53	196	68	A	H
	*	5310	104.44	-	-	97.74	32.5	6.74	32.54	196	68	P	H
	*	5310	95.4	-	-	88.7	32.5	6.74	32.54	196	68	A	H
		5354.16	63.17	-10.83	74	56.44	32.5	6.77	32.54	196	68	P	H
		5350.08	51.98	-2.02	54	45.25	32.5	6.77	32.54	196	68	A	H
		5091.8	50.9	-23.1	74	44.36	32.5	6.57	32.53	215	87	P	V
		5104.04	41.06	-12.94	54	34.52	32.5	6.57	32.53	215	87	A	V
	*	5310	105.29	-	-	98.59	32.5	6.74	32.54	215	87	P	V
	*	5310	96.21	-	-	89.51	32.5	6.74	32.54	215	87	A	V
		5353.44	62.43	-11.57	74	55.7	32.5	6.77	32.54	215	87	P	V
		5350.08	53.36	-0.64	54	46.63	32.5	6.77	32.54	215	87	A	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5372.08	52.75	-21.25	74	46	32.5	6.79	32.54	111	69	P	H
		5470	44.19	-9.81	54	37.37	32.5	6.87	32.55	111	69	A	H
	*	5500	109.13	-	-	102.3	32.5	6.88	32.55	111	69	P	H
	*	5500	101.46	-	-	94.63	32.5	6.88	32.55	111	69	A	H
													H
													H
		5443.92	54.5	-19.5	74	47.71	32.5	6.84	32.55	282	87	P	V
		5469.84	44.9	-9.1	54	38.08	32.5	6.87	32.55	282	87	A	V
	*	5500	110.58	-	-	103.75	32.5	6.88	32.55	282	87	P	V
	*	5500	102.14	-	-	95.31	32.5	6.88	32.55	282	87	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5416.72	52.31	-21.69	74	45.53	32.5	6.83	32.55	113	253	P	H
		5416.48	43.45	-10.55	54	36.67	32.5	6.83	32.55	113	253	A	H
	*	5580	109.18	-	-	102.22	32.61	6.94	32.59	113	253	P	H
	*	5580	100.77	-	-	93.81	32.61	6.94	32.59	113	253	A	H
		5751.455	50.44	-23.56	74	43.16	32.89	7.04	32.65	113	253	P	H
		5725.31	42.03	-11.97	54	34.78	32.86	7.03	32.64	113	253	A	H
		5368.96	54.64	-19.36	74	47.89	32.5	6.79	32.54	320	63	P	V
		5350	45.82	-8.18	54	39.09	32.5	6.77	32.54	320	63	A	V
	*	5580	109.35	-	-	102.39	32.61	6.94	32.59	320	63	P	V
	*	5580	101.03	-	-	94.07	32.61	6.94	32.59	320	63	A	V
		5743.265	52.97	-21.03	74	45.69	32.89	7.04	32.65	320	63	P	V
		5725	43.18	-10.82	54	35.93	32.86	7.03	32.64	320	63	A	V



802.11n HT20 CH 140 5700MHz	*	5700	107.59	-	-	100.4	32.8	7.02	32.63	100	252	P	H
	*	5700	99.19	-	-	92	32.8	7.02	32.63	100	252	A	H
		5725.24	61.35	-12.65	74	54.1	32.86	7.03	32.64	100	252	P	H
		5725	47.48	-6.52	54	40.23	32.86	7.03	32.64	100	252	A	H
													H
													H
	*	5700	107.73	-	-	100.54	32.8	7.02	32.63	307	59	P	V
	*	5700	99.99	-	-	92.8	32.8	7.02	32.63	307	59	A	V
		5725.72	59.46	-14.54	74	52.21	32.86	7.03	32.64	307	59	P	V
		5725	48.06	-5.94	54	40.81	32.86	7.03	32.64	307	59	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		11000	49.08	-24.92	74	63.16	40.5	10	65.1	100	0	P	H
		16500	46.78	-27.22	74	58.32	38.9	13.97	65.1	100	0	P	H
													H
													H
		11000	49.78	-24.22	74	63.86	40.5	10	65.1	100	0	P	V
		16500	49.61	-24.39	74	61.15	38.9	13.97	65.1	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	49.39	-24.61	74	63.72	40.07	10.28	65.2	100	0	P	H
		16740	47.23	-26.77	74	57.86	39.62	13.94	64.86	100	0	P	H
													H
													H
		11160	48.08	-25.92	74	62.41	40.07	10.28	65.2	100	0	P	V
		16740	47.33	-26.67	74	57.96	39.62	13.94	64.86	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	49.66	-24.34	74	64.32	39.46	10.71	65.34	100	0	P	H
		17100	49.25	-24.75	74	58.38	40.72	13.96	64.46	100	0	P	H
													H
													H
		11400	47.71	-26.29	74	62.37	39.46	10.71	65.34	100	0	P	V
		17100	48.54	-25.46	74	57.67	40.72	13.96	64.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5390.95	53.01	-20.99	74	46.26	32.5	6.8	32.55	109	68	P	H
		5469.35	62.57	-5.63	68.2	55.75	32.5	6.87	32.55	109	68	P	H
		5459.9	47.24	-6.76	54	40.43	32.5	6.86	32.55	109	68	A	H
	*	5510	104.83	-	-	98	32.5	6.89	32.56	109	68	P	H
	*	5510	95.66	-	-	88.83	32.5	6.89	32.56	109	68	A	H
		5729.825	51.56	-16.64	68.2	44.31	32.86	7.03	32.64	109	68	P	H
		5458.85	56.77	-17.23	74	49.96	32.5	6.86	32.55	314	79	P	V
		5466.55	65.96	-2.24	68.2	59.14	32.5	6.87	32.55	314	79	P	V
		5459.9	48.97	-5.03	54	42.16	32.5	6.86	32.55	314	79	A	V
	*	5510	106.23	-	-	99.4	32.5	6.89	32.56	314	79	P	V
	*	5510	96.75	-	-	89.92	32.5	6.89	32.56	314	79	A	V
		5726.675	50.26	-17.94	68.2	43.01	32.86	7.03	32.64	314	79	P	V
802.11n HT40 CH 110 5550MHz		5409.85	55.24	-18.76	74	48.47	32.5	6.82	32.55	110	68	P	H
		5377.65	46.58	-7.42	54	39.83	32.5	6.8	32.55	110	68	A	H
	*	5550	105.5	-	-	98.58	32.58	6.91	32.57	110	68	P	H
	*	5550	96.21	-	-	89.29	32.58	6.91	32.57	110	68	A	H
		5741.55	53.71	-20.29	74	46.43	32.89	7.04	32.65	110	68	P	H
		5726.85	43.43	-10.57	54	36.18	32.86	7.03	32.64	110	68	A	H
		5354.2	55.43	-18.57	74	48.7	32.5	6.77	32.54	276	87	P	V
		5356.3	46.01	-7.99	54	39.28	32.5	6.77	32.54	276	87	A	V
	*	5550	105.75	-	-	98.83	32.58	6.91	32.57	276	87	P	V
	*	5550	96.64	-	-	89.72	32.58	6.91	32.57	276	87	A	V
		5753.1	52.93	-21.07	74	45.63	32.91	7.04	32.65	276	87	P	V
		5725.8	42.09	-11.91	54	34.84	32.86	7.03	32.64	276	87	A	V



802.11n HT40 CH 134 5670MHz		5463.4	53.19	-20.81	74	46.38	32.5	6.86	32.55	108	253	P	H
		5463.4	45.15	-8.85	54	38.34	32.5	6.86	32.55	108	253	A	H
	*	5670	105.11	-	-	97.95	32.78	7	32.62	108	253	P	H
	*	5670	96.51	-	-	89.35	32.78	7	32.62	108	253	A	H
		5725.1	59.87	-14.13	74	52.62	32.86	7.03	32.64	108	253	P	H
		5725	44.48	-9.52	54	37.23	32.86	7.03	32.64	108	253	A	H
		5438.2	54.29	-19.71	74	47.5	32.5	6.84	32.55	276	55	P	V
		5469.7	45.38	-8.62	54	38.56	32.5	6.87	32.55	276	55	A	V
	*	5670	105.39	-	-	98.23	32.78	7	32.62	276	55	P	V
	*	5670	96.27	-	-	89.11	32.78	7	32.62	276	55	A	V
		5728.95	57.27	-16.73	74	50.02	32.86	7.03	32.64	276	55	P	V
		5725	45.21	-8.79	54	37.96	32.86	7.03	32.64	276	55	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz	*	5720	105.95	-	-	98.7	32.86	7.03	32.64	101	67	P	H
	*	5720	96.66	-	-	89.41	32.86	7.03	32.64	101	67	A	H
													H
													H
													H
													H
	*	5720	107.78	-	-	100.53	32.86	7.03	32.64	320	57	P	V
	*	5720	98.3	-	-	91.05	32.86	7.03	32.64	320	57	A	V
													V
													V
													V
													V
Remark - No other spurious found. - All results are PASS against Peak and Average limit line.													

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		11440	48.62	-25.38	74	63.33	39.37	10.77	65.36	100	0	P	H
		17160	49.2	-24.8	74	58.01	40.93	13.99	64.37	100	0	P	H
													H
													H
		11440	46.62	-27.38	74	61.33	39.37	10.77	65.36	100	0	P	V
		17160	48	-26	74	56.81	40.93	13.99	64.37	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 142 5710MHz	*	5710	104.59	-	-	97.38	32.83	7.02	32.64	101	255	P	H
	*	5710	95.09	-	-	87.88	32.83	7.02	32.64	101	255	A	H
													H
													H
													H
													H
	*	5710	105.46	-	-	98.25	32.83	7.02	32.64	320	57	P	V
	*	5710	96.1	-	-	88.89	32.83	7.02	32.64	320	57	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
WIFI 802.11n HT40 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		130.71	18	-25.5	43.5	31.81	17.54	1.12	32.76	-	-	P	H
		180.12	23.65	-19.85	43.5	39.7	15.01	1.26	32.75	-	-	P	H
		255.99	24.48	-21.52	46	35.98	19.24	1.57	32.73	-	-	P	H
		359.5	25.69	-20.31	46	35.58	20.67	1.77	32.74	-	-	P	H
		619.9	30.1	-15.9	46	34.12	26.11	2.29	33	-	-	P	H
		890.8	32.91	-13.09	46	32.7	29.11	2.74	32.34	100	0	P	H
													H
													H
													H
													H
													H
													H
		30	23.82	-16.18	40	31.75	24.22	0.53	32.76	-	-	P	V
		143.4	21.1	-22.4	43.5	35.12	17.27	1.12	32.76	-	-	P	V
		160.95	21.8	-21.7	43.5	36.43	16.51	1.2	32.76	-	-	P	V
		620.6	33.37	-12.63	46	37.37	26.13	2.29	33	100	0	P	V
		746.6	32.61	-13.39	46	34.23	28.22	2.51	32.95	-	-	P	V
		952.4	32.8	-13.2	46	30.11	30.83	2.78	31.73	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

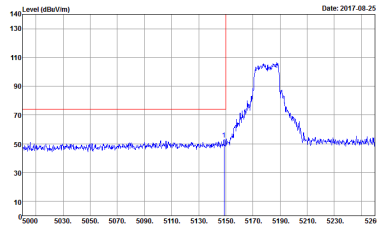
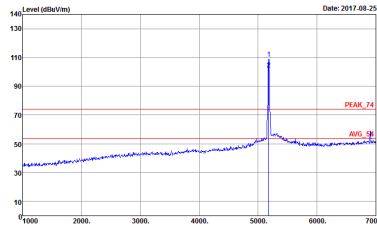
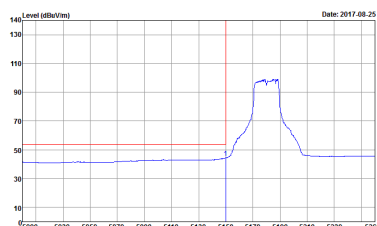
Appendix D. Radiated Spurious Emission

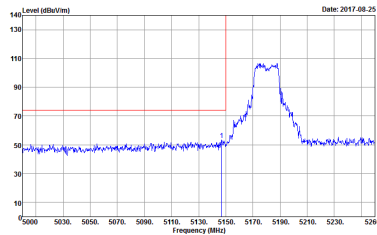
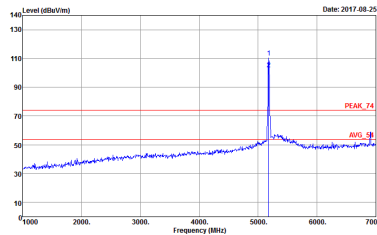
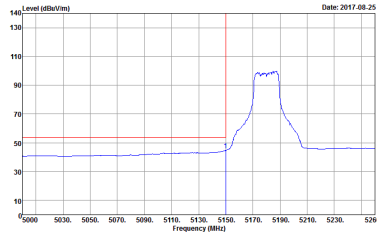
Test Engineer :	Tsung Li, Stan Hsieh, and Kyle Chuang	Temperature :	24~26°C
		Relative Humidity :	45~47%

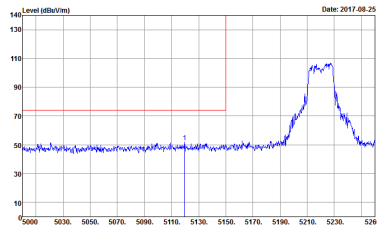
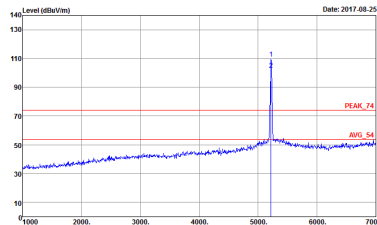
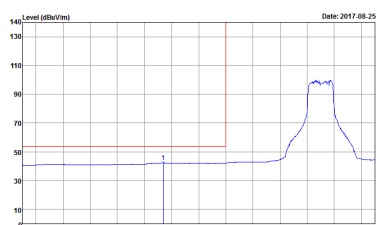
Note symbol

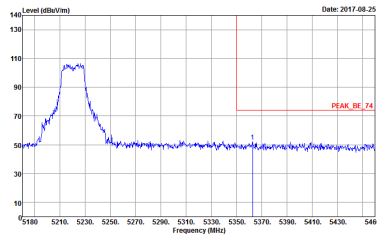
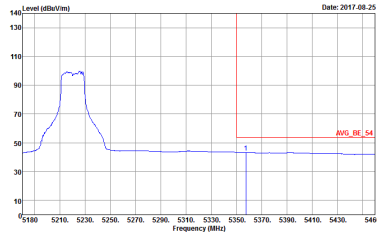
-L	Low channel location
-R	High channel location

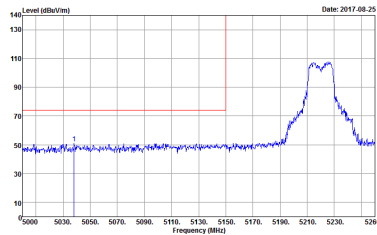
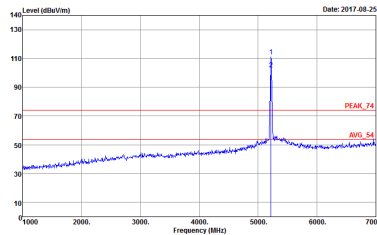
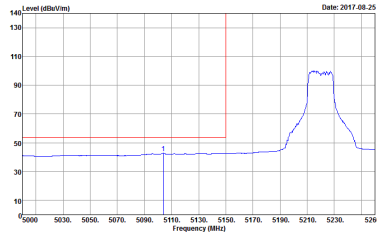
Band 1 - 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

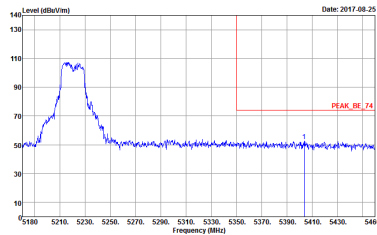
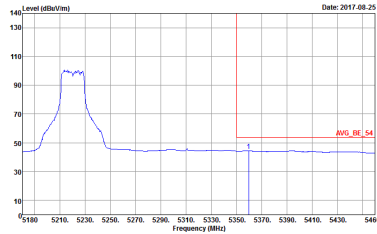
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4	Left blank

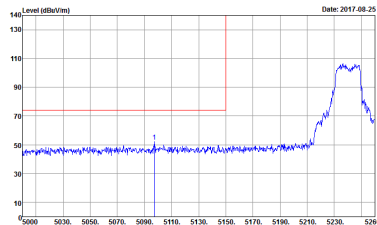
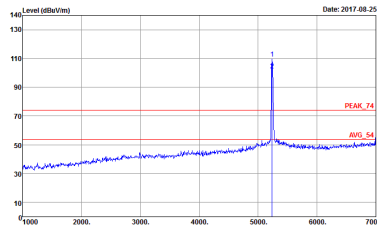
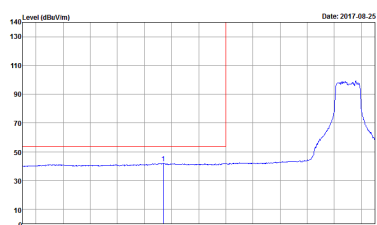
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 4	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 4
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 4	Left blank

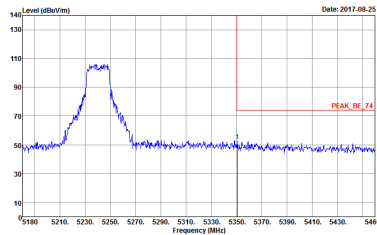
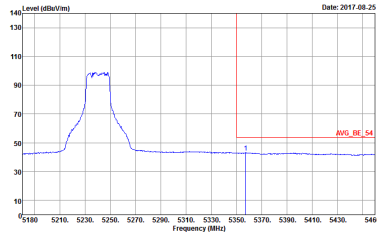
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 5	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 5
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 5	Left blank

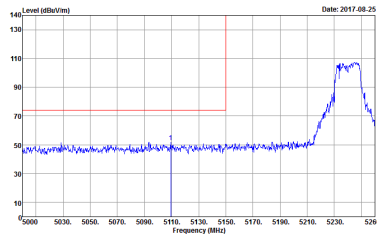
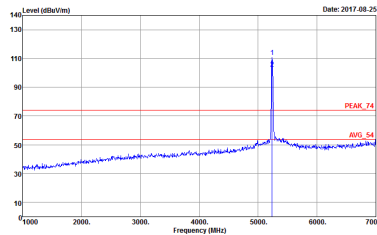
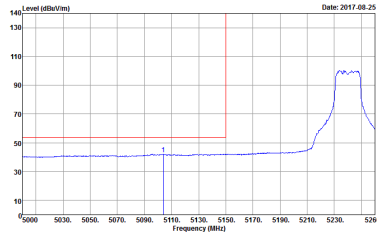
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 5	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 5	Left blank

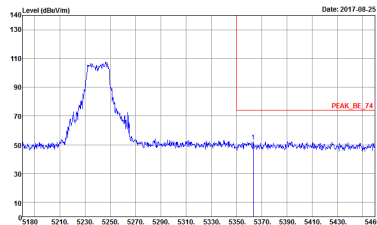
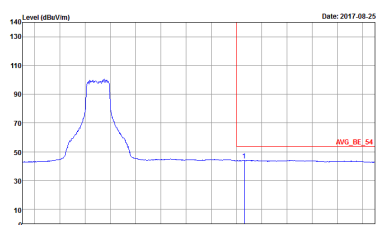
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 5	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 5
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 5	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 5	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 5	Left blank

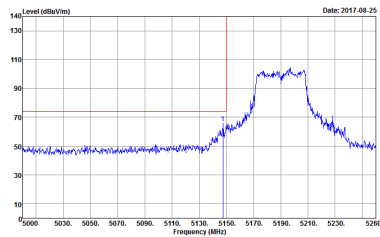
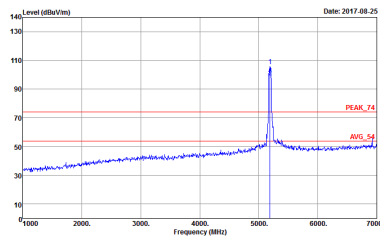
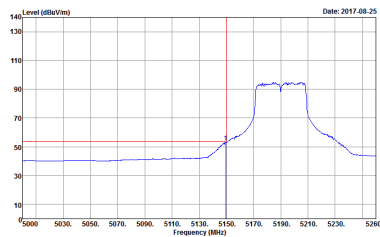
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 6	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 6
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 6	Left blank

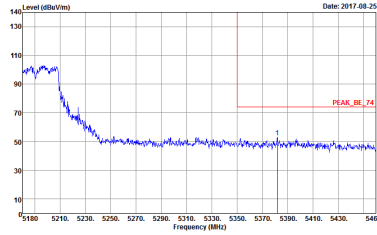
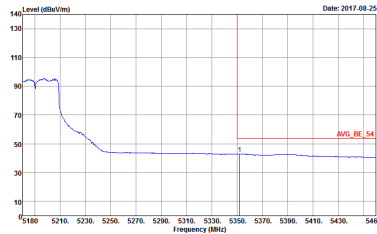
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 6	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 6	Left blank

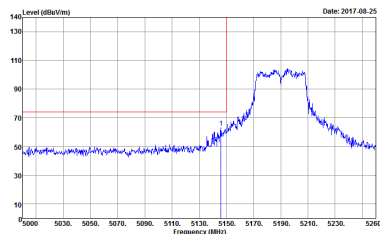
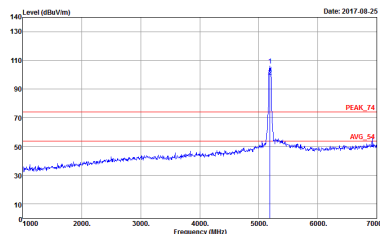
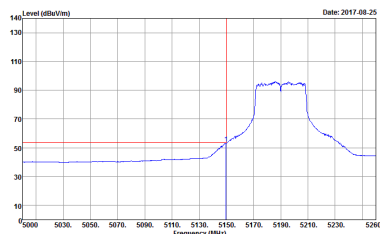
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 6	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 6
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 6	Left blank

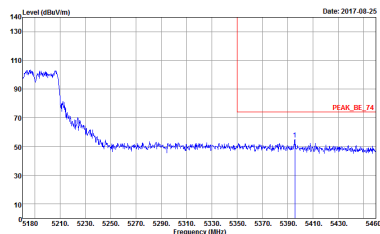
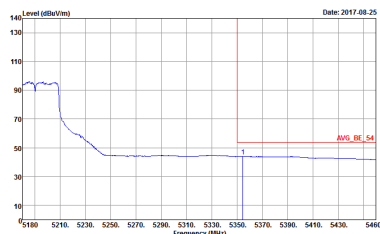
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 6	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 6	Left blank

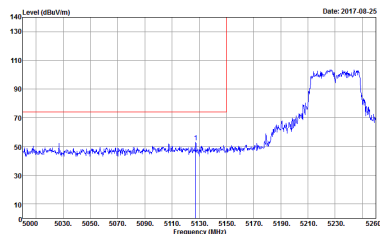
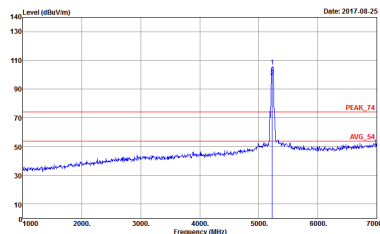
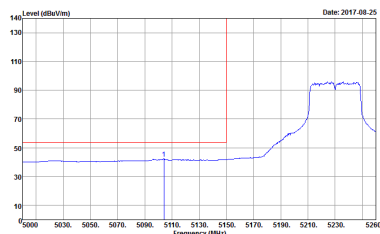
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

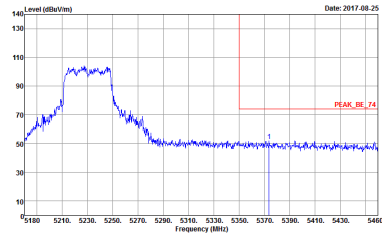
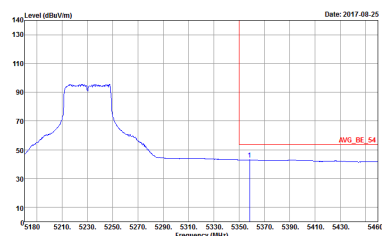
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

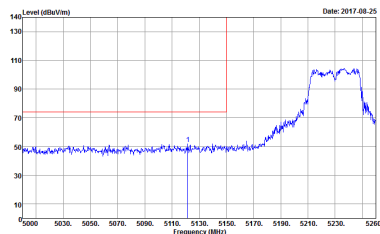
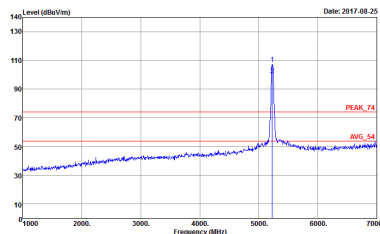
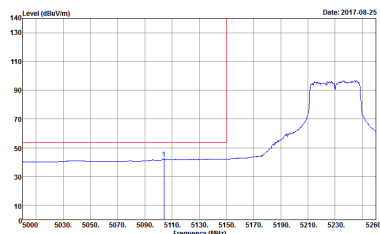
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	Left blank

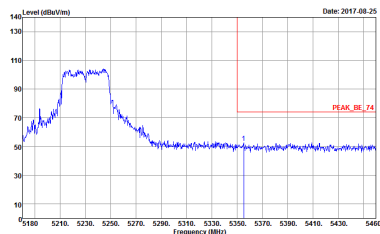
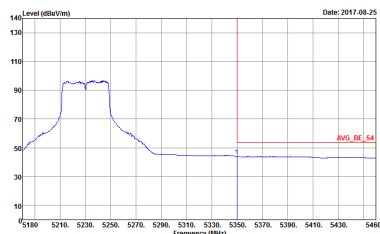
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	Left blank

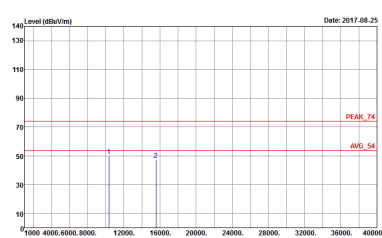
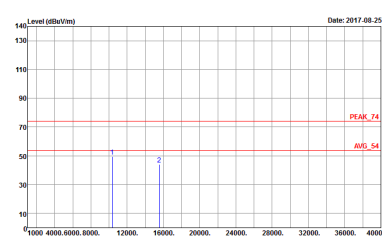
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank

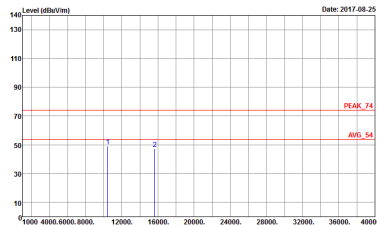
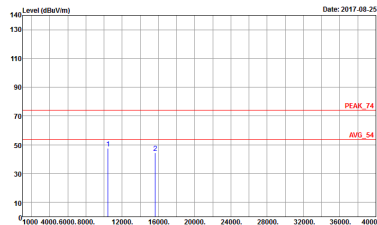
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank

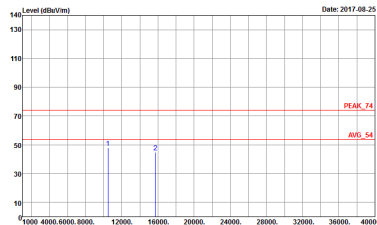
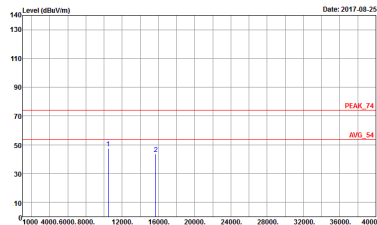
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : B	Left blank

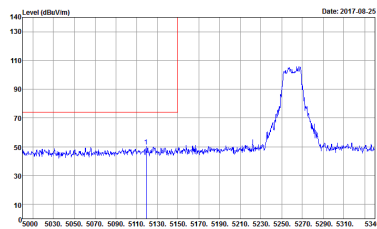
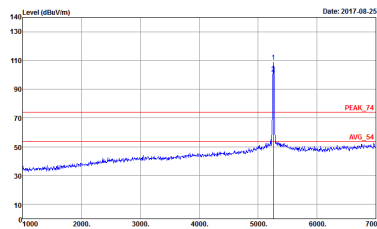
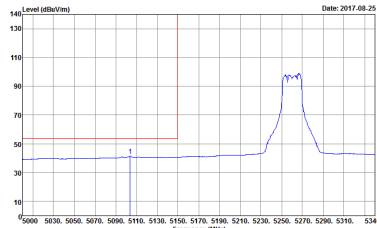
Band 1 - 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

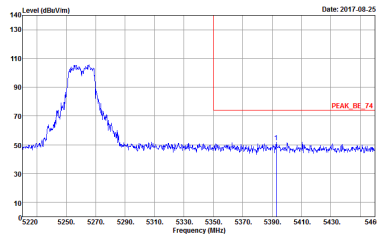
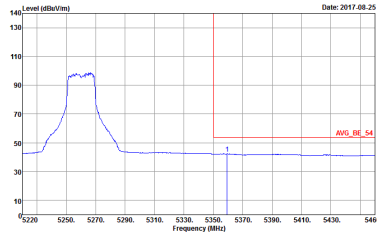
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 4	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 4

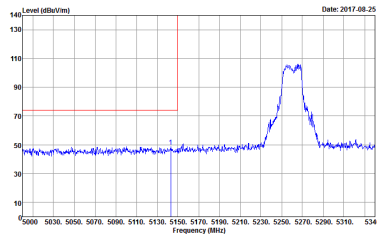
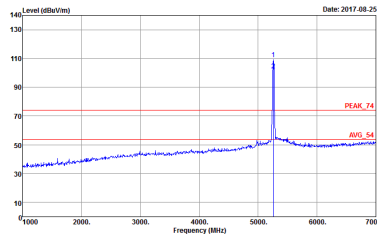
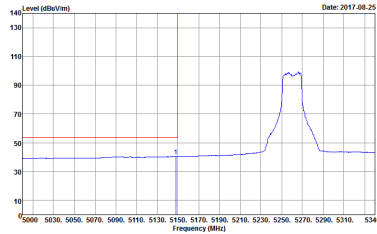
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 5	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 5

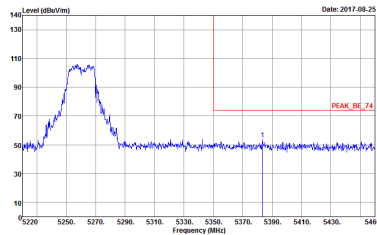
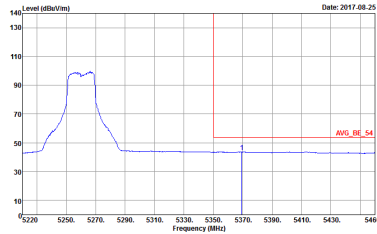
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 6	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 6

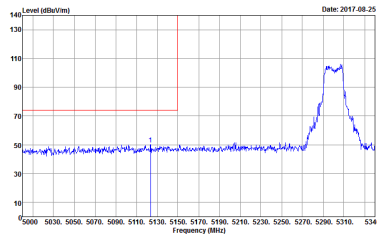
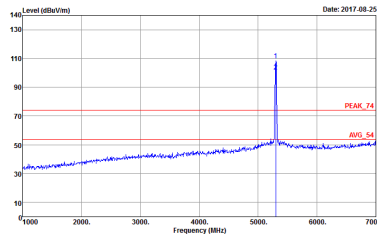
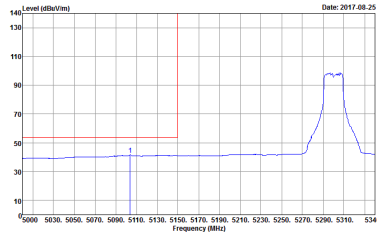
Band 2 - 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

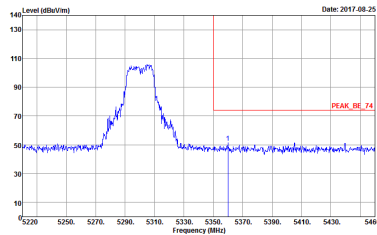
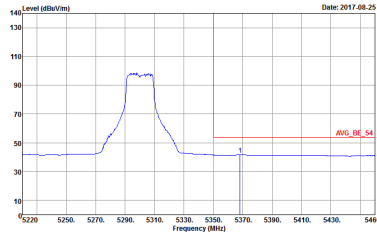
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 12	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 12
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 12	Left blank

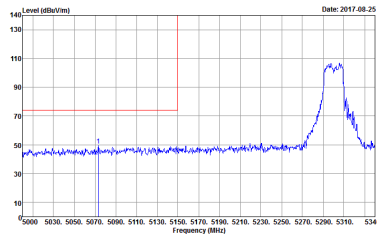
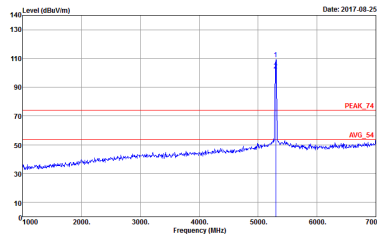
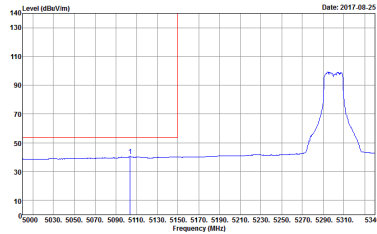
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 12	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 12	Left blank

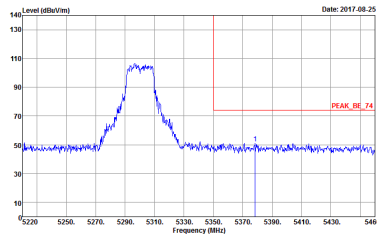
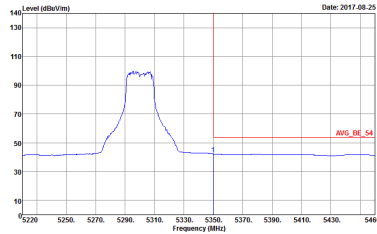
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 12	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 12
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 12	Left blank

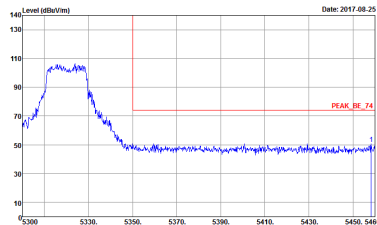
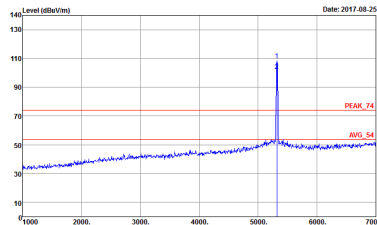
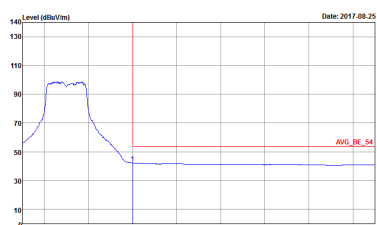
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 12	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 12	Left blank

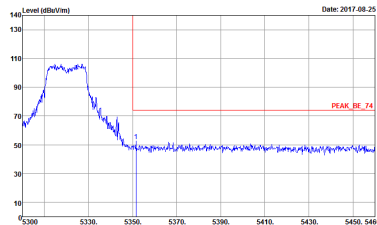
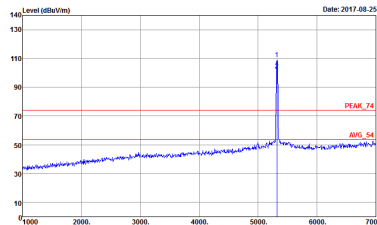
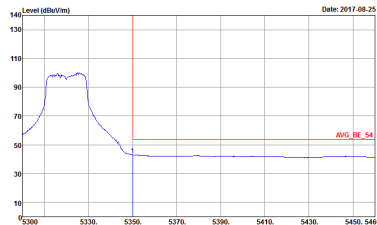
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 13	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 13
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 13	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 13	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 13	Left blank

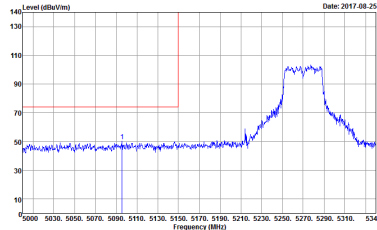
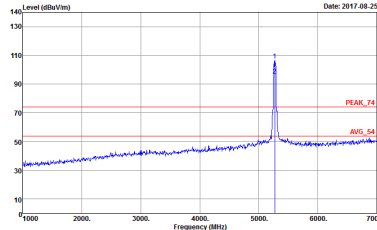
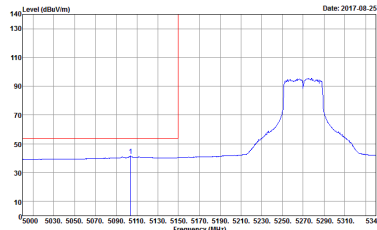
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 13	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 13
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 13	Left blank

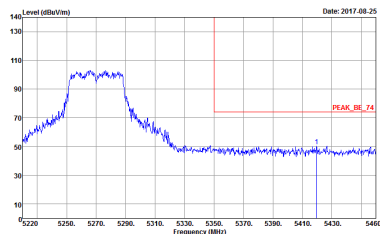
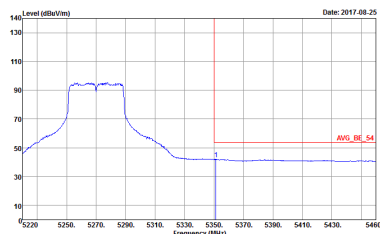
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 13	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 13	Left blank

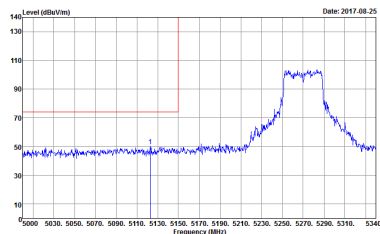
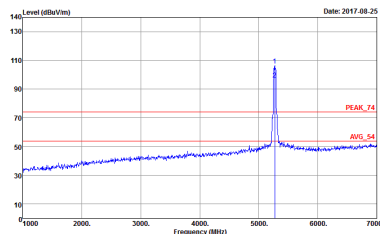
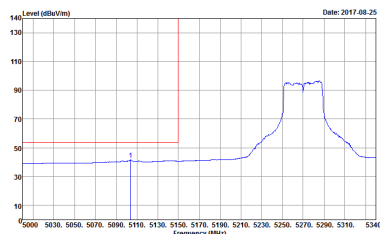
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 14	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 14
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 14	Left blank

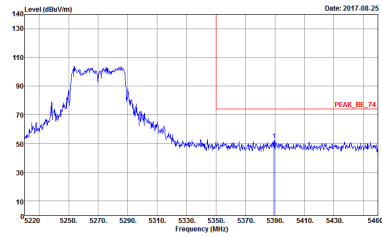
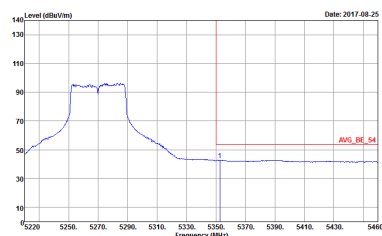
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 14	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 14
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 14	Left blank

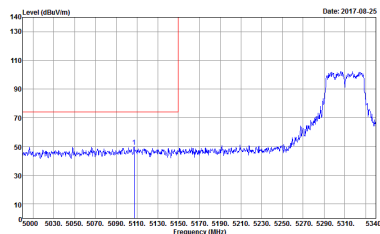
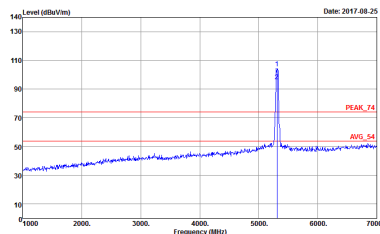
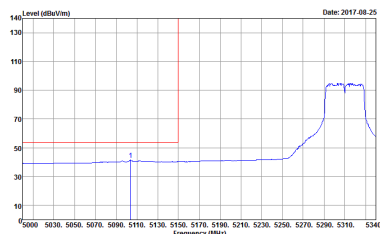
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

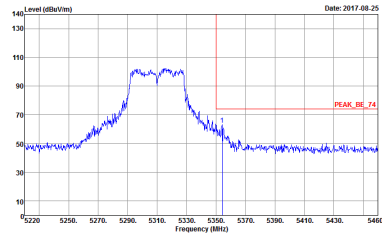
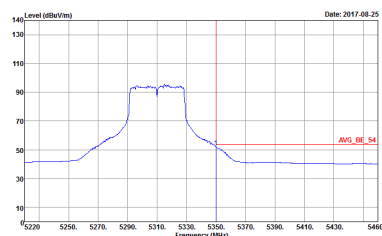
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank

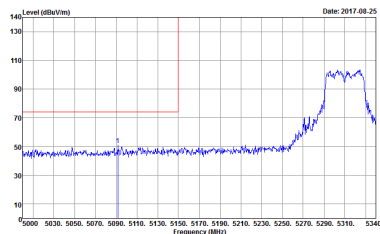
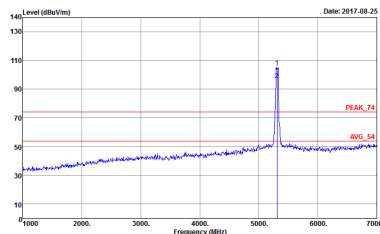
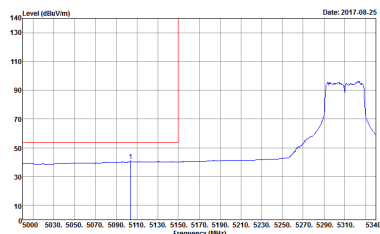
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank

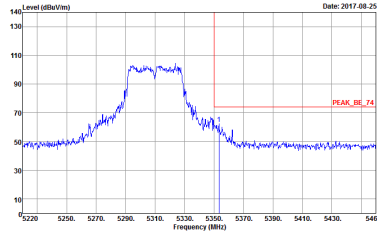
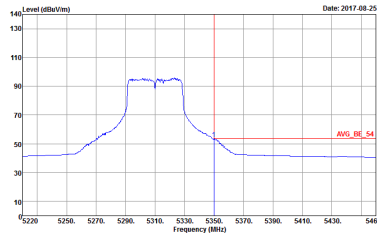
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 15	Left blank

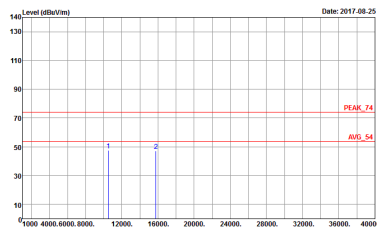
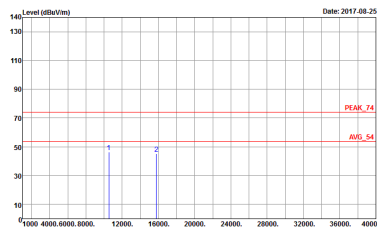
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank

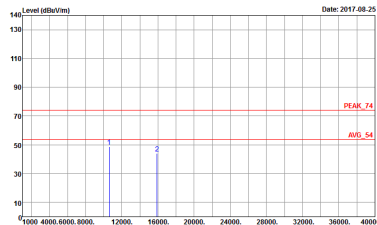
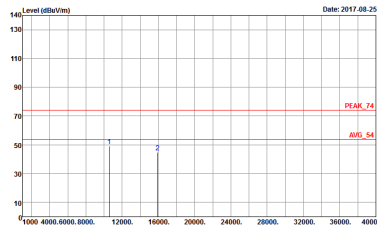
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank

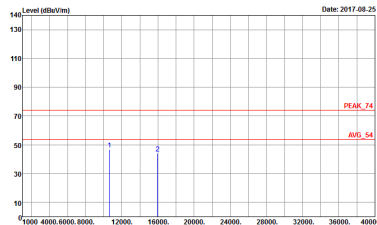
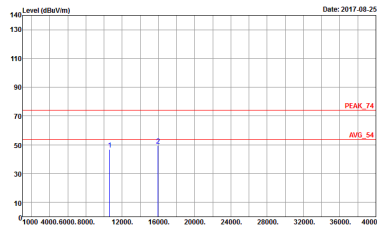
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	 Site : 03CH10-HY Condition : PEAK_T4 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 16	Left blank

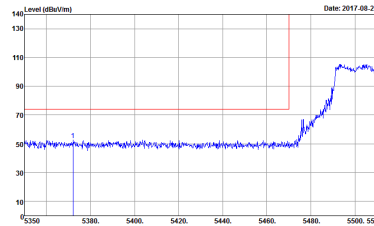
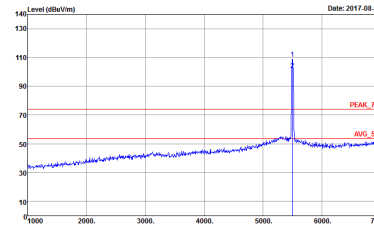
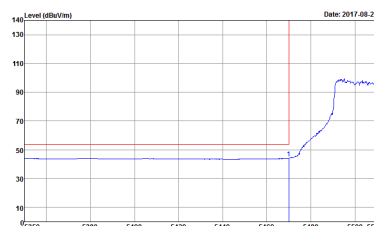
Band 2 - 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

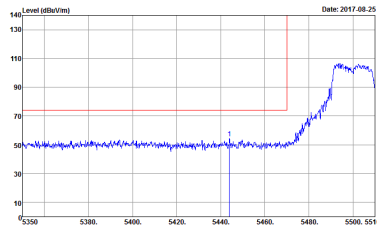
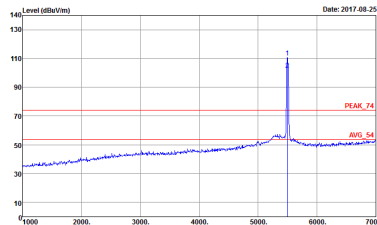
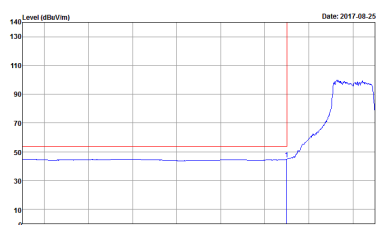
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 12	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 12

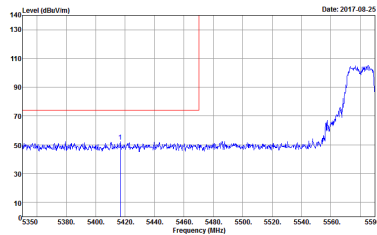
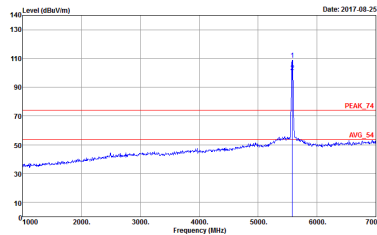
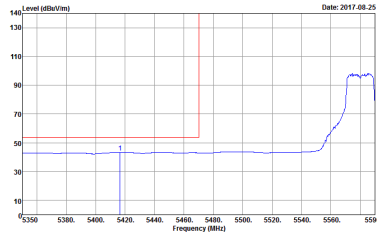
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 13	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 13

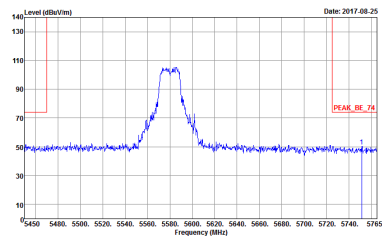
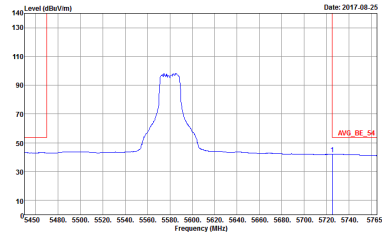
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 14	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 14

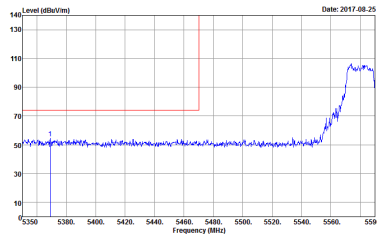
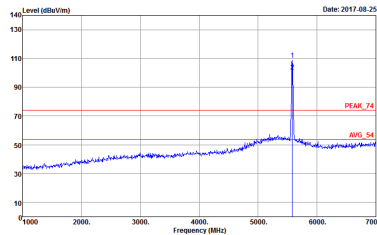
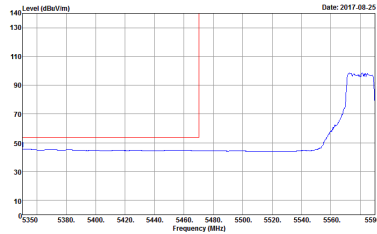
Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

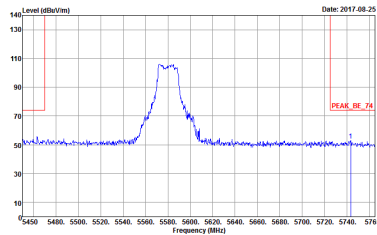
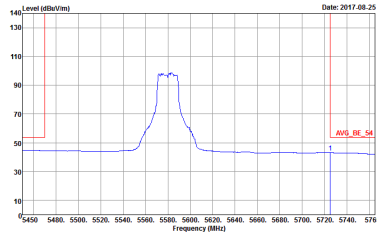
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 20	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 20
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 20	Left blank

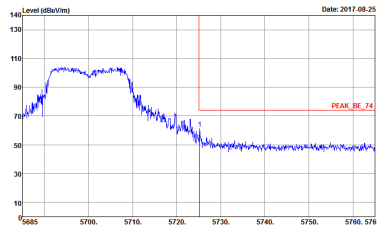
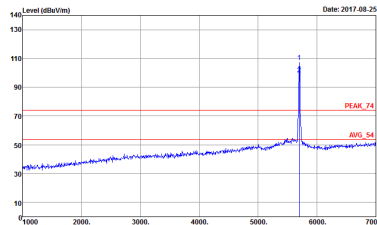
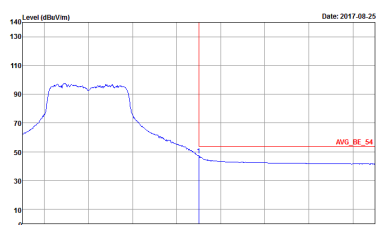
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH100-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 20	 Site : 03CH100-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : 20
Avg.	 Site : 03CH100-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : 20	Left blank

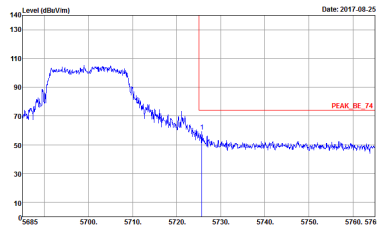
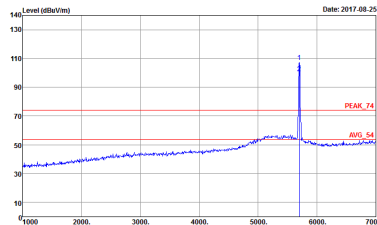
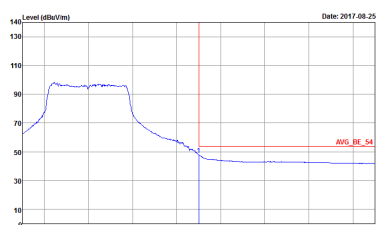
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z1	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z1
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : Z1	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : Z1	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : Z1	Left blank

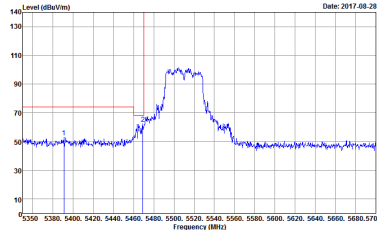
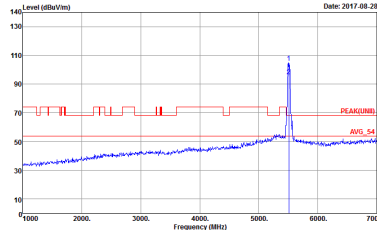
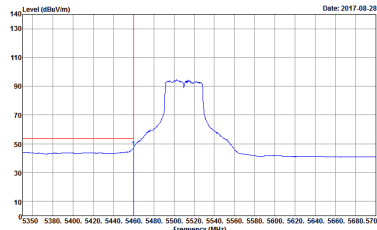
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z1	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z1
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : Z1	Left blank

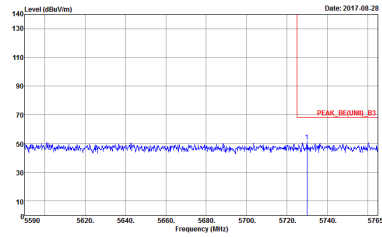
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : Z1	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : Z1	Left blank

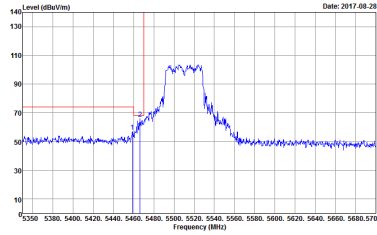
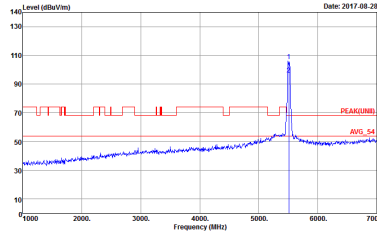
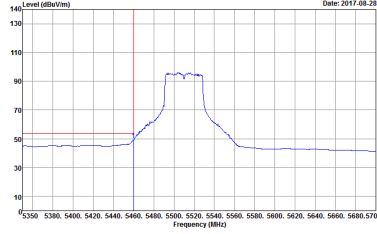
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z2	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z2
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : Z2	Left blank

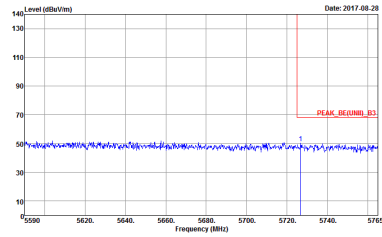
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z2	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 752305 Mode : Z2
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 752305 Mode : Z2	Left blank

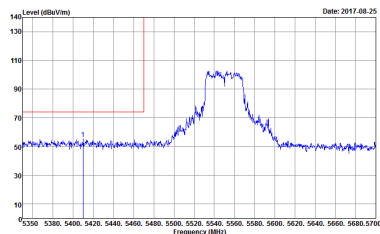
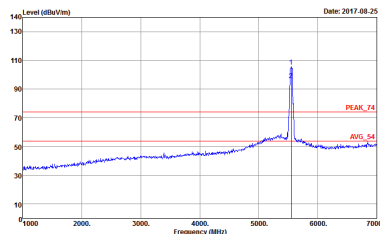
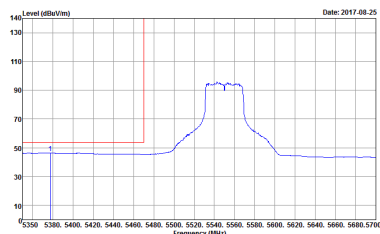
Band 3 5470~5725MHz WIFI 802.11n HT40 (Band Edge @ 3m)

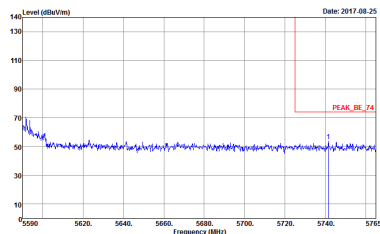
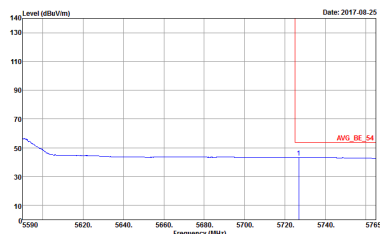
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 23	 Site : 03CH10-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 23
Avg.	 Site : 03CH10-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 23	Left blank

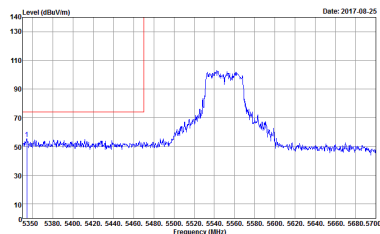
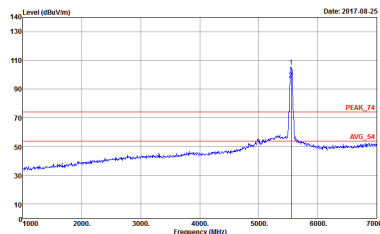
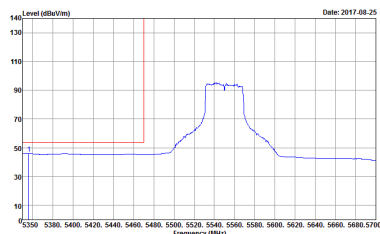
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_RE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:3000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 23	Left blank

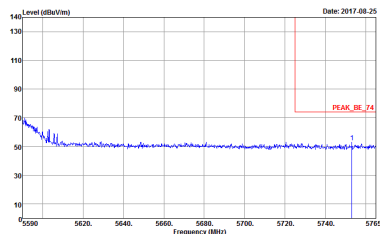
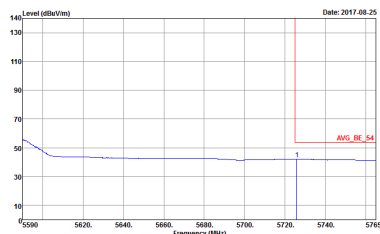
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 23	 Site : 03CH10-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 23
Avg.	 Site : 03CH10-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 23	Left blank

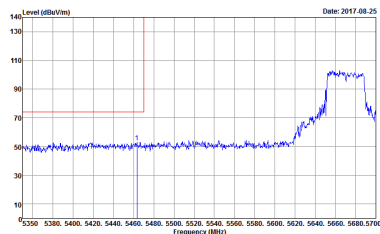
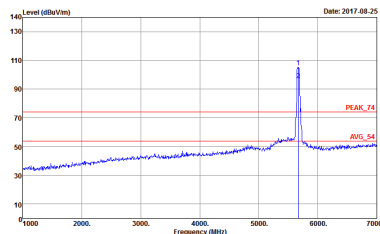
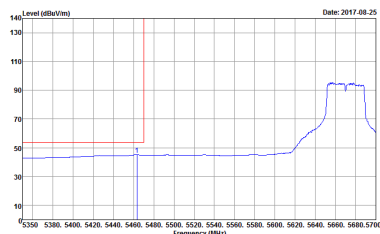
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_RE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 23	Left blank

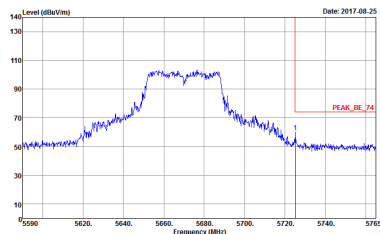
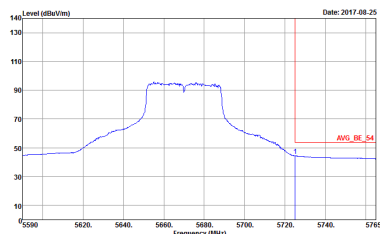
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank

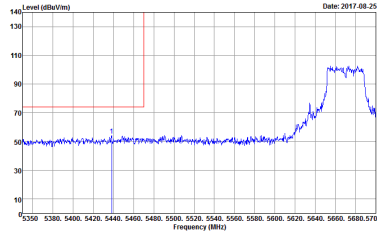
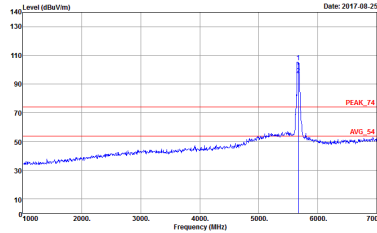
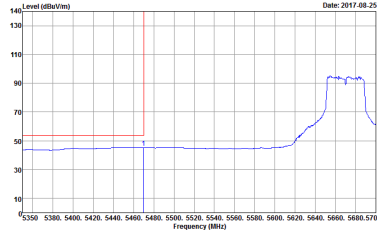
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank

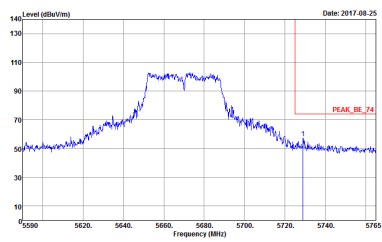
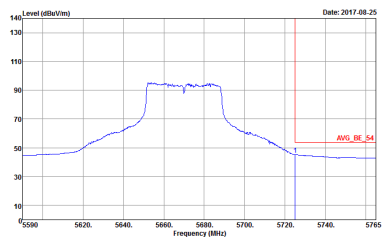
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 24	Left blank

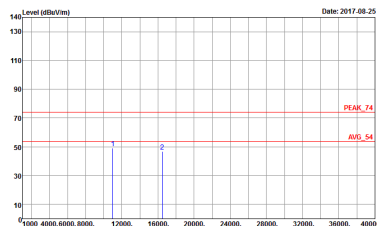
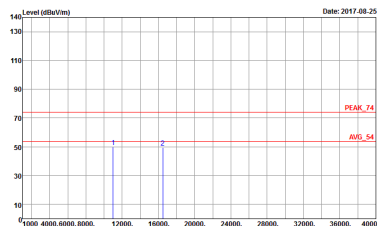
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VSW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank

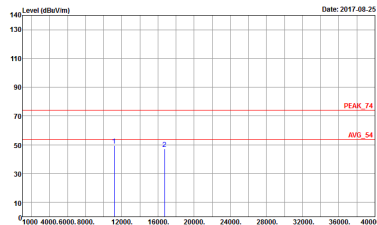
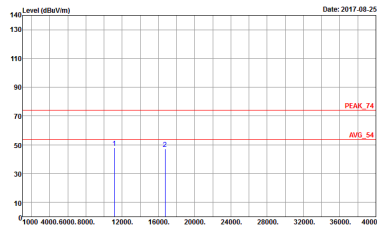
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank

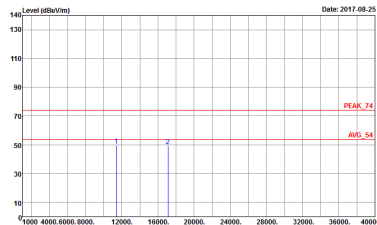
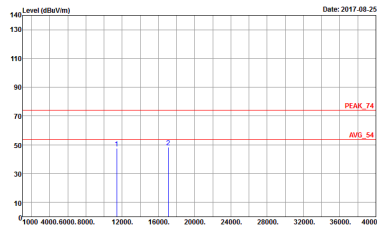
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 25	Left blank

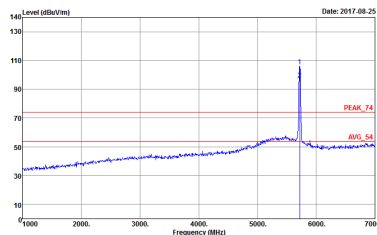
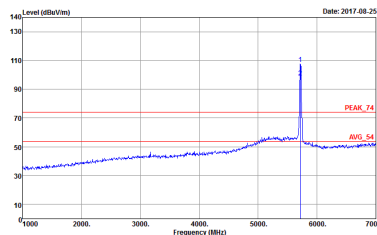
Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 20	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 20

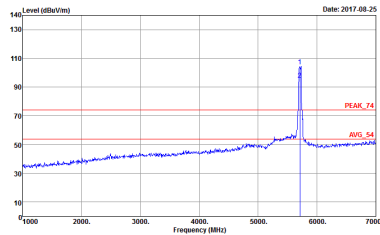
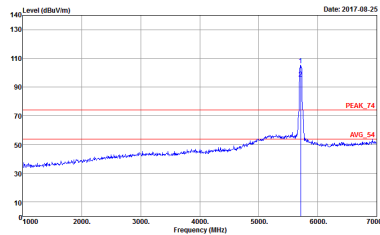
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : Z1	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : Z1

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : Z2	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : Z2

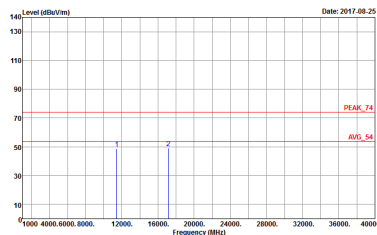
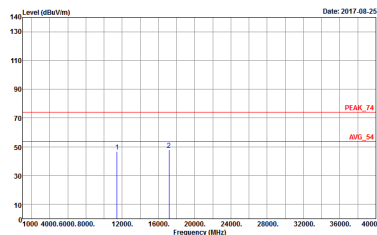
Band 3 - Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 27	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 752305 Mode : 27

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-4Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 28	 Site : 03CH10-4Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 28

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

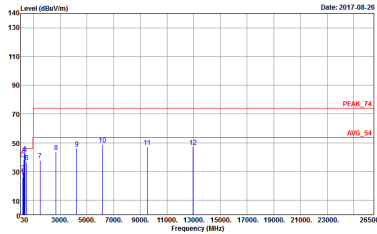
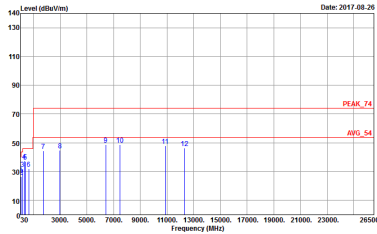
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : Z7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : Z7



Emission below 1GHz
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz WIFI																																																																																																																																																																																	
ANT	802.11n HT40 LF																																																																																																																																																																																	
1	Horizontal	Vertical																																																																																																																																																																																
QP / Peak	Level (dBuV/m) Date: 2017-08-28 Site : 03CH10-HY Condition : QP 3m BT-LOG 6111D-LF HORIZONTAL Detector : Peak Project : 752305 Mode : Z8 <table><thead><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>138.71</td><td>18.00</td><td>-25.50</td><td>43.50</td><td>31.81</td><td>17.54</td><td>1.12</td><td>32.76</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>180.12</td><td>21.65</td><td>-19.85</td><td>43.50</td><td>39.70</td><td>15.81</td><td>1.26</td><td>32.75</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>255.99</td><td>24.48</td><td>-21.52</td><td>46.00</td><td>35.98</td><td>19.24</td><td>1.57</td><td>32.75</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>359.58</td><td>25.69</td><td>-20.31</td><td>46.00</td><td>35.58</td><td>20.67</td><td>1.77</td><td>32.74</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>619.90</td><td>30.19</td><td>-15.90</td><td>46.00</td><td>34.12</td><td>26.11</td><td>2.29</td><td>33.80</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>890.80</td><td>32.91</td><td>-13.09</td><td>46.00</td><td>32.70</td><td>29.11</td><td>2.74</td><td>32.34</td><td>100</td><td>0 Peak</td></tr></tbody></table>	Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	138.71	18.00	-25.50	43.50	31.81	17.54	1.12	32.76	---	Peak	2	180.12	21.65	-19.85	43.50	39.70	15.81	1.26	32.75	---	Peak	3	255.99	24.48	-21.52	46.00	35.98	19.24	1.57	32.75	---	Peak	4	359.58	25.69	-20.31	46.00	35.58	20.67	1.77	32.74	---	Peak	5	619.90	30.19	-15.90	46.00	34.12	26.11	2.29	33.80	---	Peak	6	890.80	32.91	-13.09	46.00	32.70	29.11	2.74	32.34	100	0 Peak	Level (dBuV/m) Date: 2017-08-28 Site : 03CH10-HY Condition : QP 3m BT-LOG 6111D-LF VERTICAL Detector : Peak Project : 752305 Mode : Z8 <table><thead><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>30.00</td><td>23.82</td><td>-16.18</td><td>40.00</td><td>31.75</td><td>24.22</td><td>0.53</td><td>32.76</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>143.40</td><td>21.10</td><td>-22.40</td><td>43.50</td><td>35.12</td><td>17.27</td><td>1.12</td><td>32.76</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>160.95</td><td>21.80</td><td>-21.70</td><td>43.50</td><td>36.43</td><td>16.51</td><td>1.20</td><td>32.76</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>620.68</td><td>33.37</td><td>-12.63</td><td>46.00</td><td>37.37</td><td>26.13</td><td>2.29</td><td>33.00</td><td>100</td><td>0 Peak</td></tr><tr><td>5</td><td>746.60</td><td>32.61</td><td>-13.39</td><td>46.00</td><td>34.23</td><td>28.22</td><td>2.51</td><td>32.95</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>952.40</td><td>32.80</td><td>-13.20</td><td>46.00</td><td>30.11</td><td>30.83</td><td>2.78</td><td>31.73</td><td>---</td><td>Peak</td></tr></tbody></table>	Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	30.00	23.82	-16.18	40.00	31.75	24.22	0.53	32.76	---	Peak	2	143.40	21.10	-22.40	43.50	35.12	17.27	1.12	32.76	---	Peak	3	160.95	21.80	-21.70	43.50	36.43	16.51	1.20	32.76	---	Peak	4	620.68	33.37	-12.63	46.00	37.37	26.13	2.29	33.00	100	0 Peak	5	746.60	32.61	-13.39	46.00	34.23	28.22	2.51	32.95	---	Peak	6	952.40	32.80	-13.20	46.00	30.11	30.83	2.78	31.73	---	Peak
	Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																							
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																								
1	138.71	18.00	-25.50	43.50	31.81	17.54	1.12	32.76	---	Peak																																																																																																																																																																								
2	180.12	21.65	-19.85	43.50	39.70	15.81	1.26	32.75	---	Peak																																																																																																																																																																								
3	255.99	24.48	-21.52	46.00	35.98	19.24	1.57	32.75	---	Peak																																																																																																																																																																								
4	359.58	25.69	-20.31	46.00	35.58	20.67	1.77	32.74	---	Peak																																																																																																																																																																								
5	619.90	30.19	-15.90	46.00	34.12	26.11	2.29	33.80	---	Peak																																																																																																																																																																								
6	890.80	32.91	-13.09	46.00	32.70	29.11	2.74	32.34	100	0 Peak																																																																																																																																																																								
Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																								
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																								
1	30.00	23.82	-16.18	40.00	31.75	24.22	0.53	32.76	---	Peak																																																																																																																																																																								
2	143.40	21.10	-22.40	43.50	35.12	17.27	1.12	32.76	---	Peak																																																																																																																																																																								
3	160.95	21.80	-21.70	43.50	36.43	16.51	1.20	32.76	---	Peak																																																																																																																																																																								
4	620.68	33.37	-12.63	46.00	37.37	26.13	2.29	33.00	100	0 Peak																																																																																																																																																																								
5	746.60	32.61	-13.39	46.00	34.23	28.22	2.51	32.95	---	Peak																																																																																																																																																																								
6	952.40	32.80	-13.20	46.00	30.11	30.83	2.78	31.73	---	Peak																																																																																																																																																																								

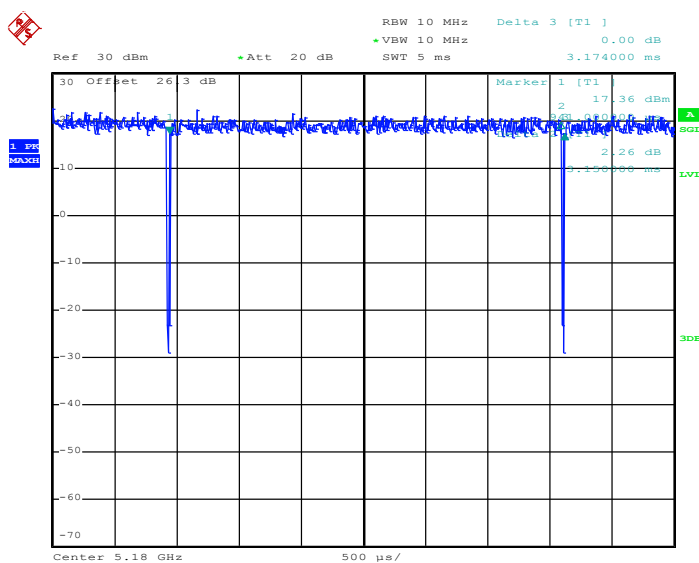


ANT	5GHz WLAN Idle																																																																																																																																																																																																																																																																																																																																																		
1	Horizontal					Vertical																																																																																																																																																																																																																																																																																																																																													
Peak Avg.																																																																																																																																																																																																																																																																																																																																																			
	Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 39 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>183.90</td><td>26.29</td><td>-17.21</td><td>43.50</td><td>42.36</td><td>14.87</td><td>1.39</td><td>32.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>225.75</td><td>29.72</td><td>-16.28</td><td>46.00</td><td>44.82</td><td>15.76</td><td>1.48</td><td>32.74</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>299.73</td><td>38.41</td><td>-7.59</td><td>46.00</td><td>49.88</td><td>19.20</td><td>1.65</td><td>32.71</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>311.20</td><td>42.39</td><td>-3.61</td><td>46.00</td><td>53.70</td><td>19.33</td><td>1.69</td><td>32.72</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>373.58</td><td>42.46</td><td>-3.54</td><td>46.00</td><td>52.82</td><td>20.97</td><td>1.81</td><td>32.75</td><td>100</td><td>0</td><td>Peak</td></tr><tr><td>6</td><td>585.10</td><td>36.75</td><td>-9.25</td><td>46.00</td><td>43.11</td><td>23.95</td><td>2.88</td><td>32.89</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>1698.00</td><td>37.70</td><td>-36.30</td><td>74.00</td><td>44.81</td><td>24.10</td><td>3.48</td><td>34.86</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>8</td><td>2698.00</td><td>43.65</td><td>-30.35</td><td>74.00</td><td>43.25</td><td>27.86</td><td>4.71</td><td>33.11</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>9</td><td>4246.00</td><td>45.93</td><td>-28.07</td><td>74.00</td><td>41.53</td><td>30.70</td><td>5.99</td><td>32.66</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>10</td><td>6372.00</td><td>48.92</td><td>-25.08</td><td>74.00</td><td>40.17</td><td>33.80</td><td>7.21</td><td>32.85</td><td>100</td><td>0</td><td>Peak</td></tr><tr><td>11</td><td>9520.00</td><td>47.17</td><td>-26.83</td><td>74.00</td><td>62.62</td><td>38.50</td><td>10.43</td><td>65.20</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>12</td><td>12936.00</td><td>47.11</td><td>-26.89</td><td>74.00</td><td>60.62</td><td>38.77</td><td>12.25</td><td>65.21</td><td>---</td><td>---</td><td>Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	dB	cm	deg	1	183.90	26.29	-17.21	43.50	42.36	14.87	1.39	32.75	---	---	Peak	2	225.75	29.72	-16.28	46.00	44.82	15.76	1.48	32.74	---	---	Peak	3	299.73	38.41	-7.59	46.00	49.88	19.20	1.65	32.71	---	---	Peak	4	311.20	42.39	-3.61	46.00	53.70	19.33	1.69	32.72	---	---	Peak	5	373.58	42.46	-3.54	46.00	52.82	20.97	1.81	32.75	100	0	Peak	6	585.10	36.75	-9.25	46.00	43.11	23.95	2.88	32.89	---	---	Peak	7	1698.00	37.70	-36.30	74.00	44.81	24.10	3.48	34.86	---	---	Peak	8	2698.00	43.65	-30.35	74.00	43.25	27.86	4.71	33.11	---	---	Peak	9	4246.00	45.93	-28.07	74.00	41.53	30.70	5.99	32.66	---	---	Peak	10	6372.00	48.92	-25.08	74.00	40.17	33.80	7.21	32.85	100	0	Peak	11	9520.00	47.17	-26.83	74.00	62.62	38.50	10.43	65.20	---	---	Peak	12	12936.00	47.11	-26.89	74.00	60.62	38.77	12.25	65.21	---	---	Peak	Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 752305 Mode : 39 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>31.00</td><td>28.23</td><td>-11.77</td><td>40.00</td><td>36.59</td><td>23.78</td><td>0.53</td><td>32.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>76.44</td><td>26.50</td><td>-13.50</td><td>40.00</td><td>45.35</td><td>12.88</td><td>0.86</td><td>32.76</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>177.69</td><td>31.89</td><td>-11.61</td><td>43.50</td><td>47.80</td><td>15.15</td><td>1.26</td><td>32.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>310.50</td><td>37.61</td><td>-8.39</td><td>46.00</td><td>48.93</td><td>19.32</td><td>1.69</td><td>32.72</td><td>100</td><td>0</td><td>Peak</td></tr><tr><td>5</td><td>389.60</td><td>37.87</td><td>-8.93</td><td>46.00</td><td>46.15</td><td>21.42</td><td>1.84</td><td>32.75</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>646.50</td><td>31.93</td><td>-14.07</td><td>46.00</td><td>35.47</td><td>26.54</td><td>2.32</td><td>33.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>1744.00</td><td>44.34</td><td>-29.66</td><td>74.00</td><td>45.32</td><td>24.80</td><td>3.77</td><td>33.74</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>8</td><td>2980.00</td><td>44.71</td><td>-29.29</td><td>74.00</td><td>43.90</td><td>28.61</td><td>4.97</td><td>33.03</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>9</td><td>6416.00</td><td>48.94</td><td>-25.06</td><td>74.00</td><td>39.38</td><td>34.55</td><td>7.41</td><td>32.99</td><td>100</td><td>0</td><td>Peak</td></tr><tr><td>10</td><td>7668.00</td><td>48.59</td><td>-25.41</td><td>74.00</td><td>66.23</td><td>37.38</td><td>9.07</td><td>64.89</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>11</td><td>10880.00</td><td>47.86</td><td>-26.14</td><td>74.00</td><td>62.25</td><td>40.14</td><td>10.86</td><td>65.12</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>12</td><td>12312.00</td><td>46.34</td><td>-27.66</td><td>74.00</td><td>60.52</td><td>38.62</td><td>11.90</td><td>65.26</td><td>---</td><td>---</td><td>Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	dB	cm	deg	1	31.00	28.23	-11.77	40.00	36.59	23.78	0.53	32.75	---	---	Peak	2	76.44	26.50	-13.50	40.00	45.35	12.88	0.86	32.76	---	---	Peak	3	177.69	31.89	-11.61	43.50	47.80	15.15	1.26	32.75	---	---	Peak	4	310.50	37.61	-8.39	46.00	48.93	19.32	1.69	32.72	100	0	Peak	5	389.60	37.87	-8.93	46.00	46.15	21.42	1.84	32.75	---	---	Peak	6	646.50	31.93	-14.07	46.00	35.47	26.54	2.32	33.00	---	---	Peak	7	1744.00	44.34	-29.66	74.00	45.32	24.80	3.77	33.74	---	---	Peak	8	2980.00	44.71	-29.29	74.00	43.90	28.61	4.97	33.03	---	---	Peak	9	6416.00	48.94	-25.06	74.00	39.38	34.55	7.41	32.99	100	0	Peak	10	7668.00	48.59	-25.41	74.00	66.23	37.38	9.07	64.89	---	---	Peak	11	10880.00	47.86	-26.14	74.00	62.25	40.14	10.86	65.12	---	---	Peak	12	12312.00	46.34	-27.66	74.00	60.52	38.62	11.90	65.26	---	---
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																																																																																																																																																																																										
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	dB	cm	deg																																																																																																																																																																																																																																																																																																																																									
1	183.90	26.29	-17.21	43.50	42.36	14.87	1.39	32.75	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
2	225.75	29.72	-16.28	46.00	44.82	15.76	1.48	32.74	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
3	299.73	38.41	-7.59	46.00	49.88	19.20	1.65	32.71	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
4	311.20	42.39	-3.61	46.00	53.70	19.33	1.69	32.72	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
5	373.58	42.46	-3.54	46.00	52.82	20.97	1.81	32.75	100	0	Peak																																																																																																																																																																																																																																																																																																																																								
6	585.10	36.75	-9.25	46.00	43.11	23.95	2.88	32.89	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
7	1698.00	37.70	-36.30	74.00	44.81	24.10	3.48	34.86	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
8	2698.00	43.65	-30.35	74.00	43.25	27.86	4.71	33.11	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
9	4246.00	45.93	-28.07	74.00	41.53	30.70	5.99	32.66	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
10	6372.00	48.92	-25.08	74.00	40.17	33.80	7.21	32.85	100	0	Peak																																																																																																																																																																																																																																																																																																																																								
11	9520.00	47.17	-26.83	74.00	62.62	38.50	10.43	65.20	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
12	12936.00	47.11	-26.89	74.00	60.62	38.77	12.25	65.21	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																																																																																																																																																																																										
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	dB	cm	deg																																																																																																																																																																																																																																																																																																																																									
1	31.00	28.23	-11.77	40.00	36.59	23.78	0.53	32.75	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
2	76.44	26.50	-13.50	40.00	45.35	12.88	0.86	32.76	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
3	177.69	31.89	-11.61	43.50	47.80	15.15	1.26	32.75	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
4	310.50	37.61	-8.39	46.00	48.93	19.32	1.69	32.72	100	0	Peak																																																																																																																																																																																																																																																																																																																																								
5	389.60	37.87	-8.93	46.00	46.15	21.42	1.84	32.75	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
6	646.50	31.93	-14.07	46.00	35.47	26.54	2.32	33.00	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
7	1744.00	44.34	-29.66	74.00	45.32	24.80	3.77	33.74	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
8	2980.00	44.71	-29.29	74.00	43.90	28.61	4.97	33.03	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
9	6416.00	48.94	-25.06	74.00	39.38	34.55	7.41	32.99	100	0	Peak																																																																																																																																																																																																																																																																																																																																								
10	7668.00	48.59	-25.41	74.00	66.23	37.38	9.07	64.89	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
11	10880.00	47.86	-26.14	74.00	62.25	40.14	10.86	65.12	---	---	Peak																																																																																																																																																																																																																																																																																																																																								
12	12312.00	46.34	-27.66	74.00	60.52	38.62	11.90	65.26	---	---	Peak																																																																																																																																																																																																																																																																																																																																								

Appendix E. Duty Cycle Plots

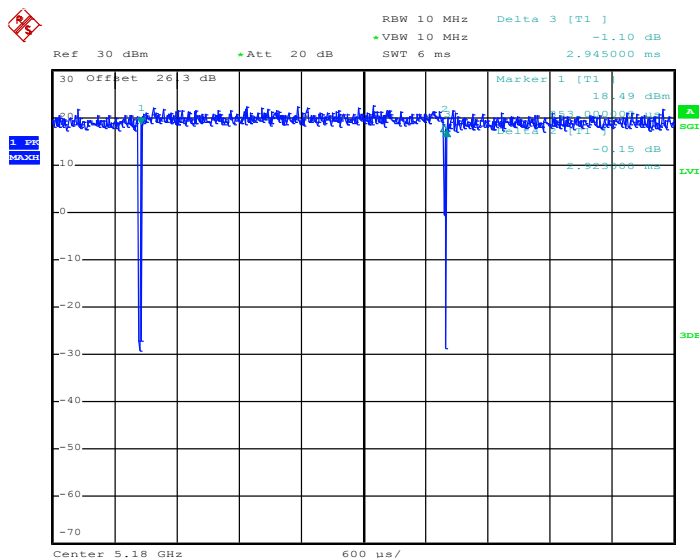
Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
802.11a	99.24	-	-	10Hz
5GHz 802.11n HT20	99.25	-	-	10Hz
5GHz 802.11n HT40	98.62	-	-	10Hz

802.11a



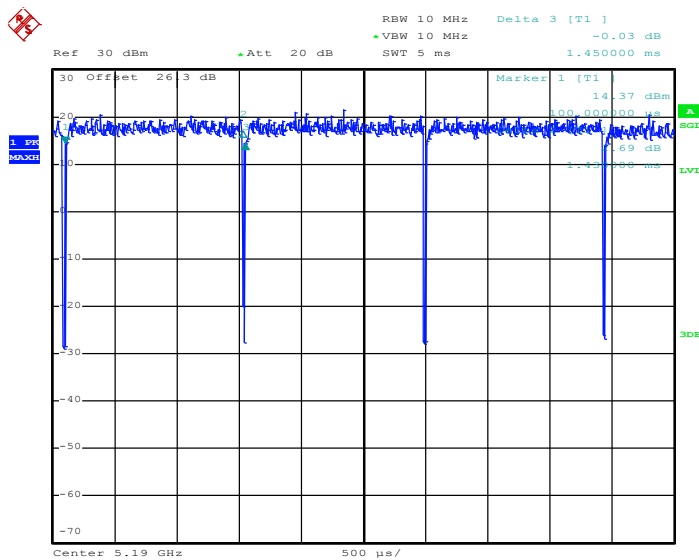
Date: 18.AUG.2017 16:03:53

802.11n HT20



Date: 18.AUG.2017 16:06:43

802.11n HT40



Date: 18.AUG.2017 16:08:21

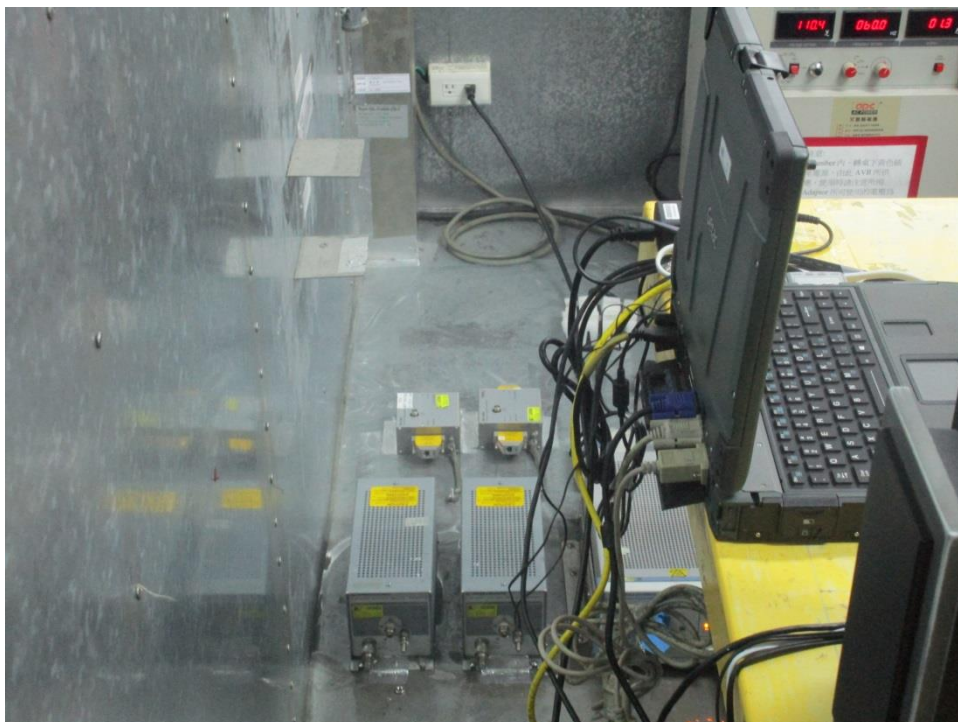
Appendix F. Setup Photographs

<Conducted Emission>

Mode 4

Remote View





Rear View

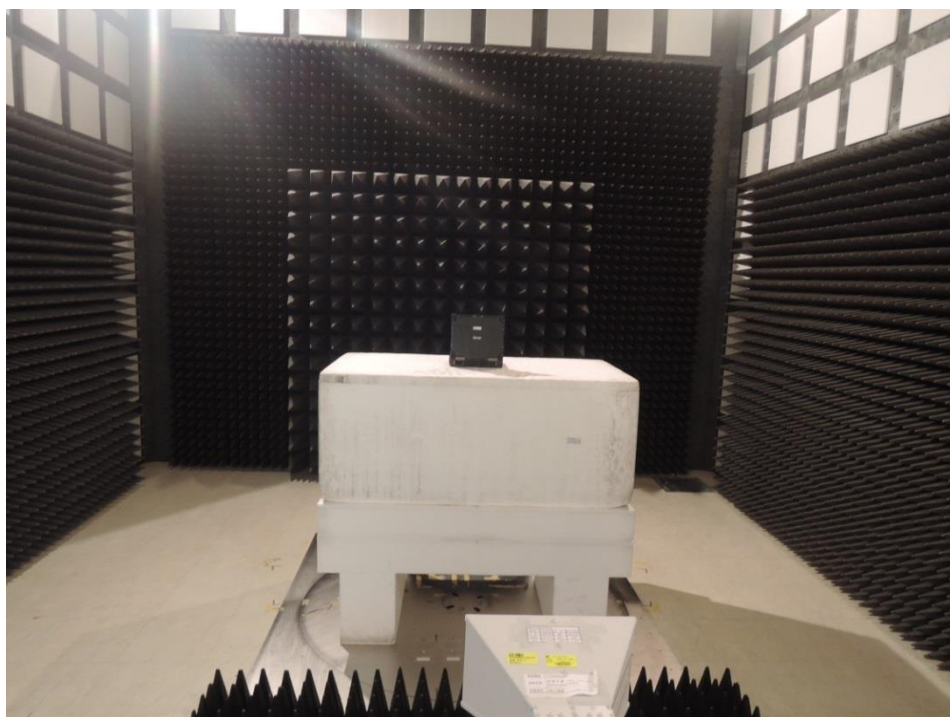


<Radiated Emission>

LF



HF



<Receiver Radiated Emission>

LF



HF

