

FCC RADIO TEST REPORT

FCC ID : HLEPA760BTNFL
Equipment : Rugged Handheld Computer
Brand Name : unitech
Model Name : PA760
Applicant : unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist.,
New Taipei City, Taiwan
Manufacturer : unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist.,
New Taipei City, Taiwan
Standard : FCC Part 15 Subpart E §15.407

The product was received on Apr. 19, 2019 and testing was started from Apr. 24, 2019 and completed on May 17, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 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.....	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 Test Result	12
3.1 26dB & 99% Occupied Bandwidth Measurement	12
3.2 Maximum Conducted Output Power Measurement	14
3.3 Power Spectral Density Measurement	16
3.4 Unwanted Emissions Measurement.....	18
3.5 AC Conducted Emission Measurement.....	23
3.6 Automatically Discontinue Transmission	25
3.7 Antenna Requirements.....	26
4 List of Measuring Equipment.....	27
5 Uncertainty of Evaluation	29
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	



History of this test report

Report No.	Version	Description	Issued Date
FR8N0701-02E	01	Initial issue of report	May 31, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 5.16 dB at 5352.480 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 13.02 dB at 2.477 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Aileen Huang



1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: <Ant. 1> PIFA Antenna <Ant. 2> PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo: PIFA Antenna NFC: Loop Antenna

1.2 Modification of EUT

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

1.3 Testing Location

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

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

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

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

FCC designation No.: TW1190 and TW0007



1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142 [*]	5710		

Note:

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

2.2 Test Mode

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1: LTE Band 17 Idle + WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Battery + SD Card + USB Cable (Data Link with Notebook) (Read File) + SIM 1
Remark: Data Link with Notebook means data application transferred mode between EUT and Notebook.	

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n 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

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	122
H	High	-	-	-
Straddle		-	-	138

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
8.	Adapter	Phihong	PSA10F-050Q	N/A	N/A	N/A
9.	USB Cable	PAN International	05-2018-0055	N/A	Shielded, 1.0 m	N/A



2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

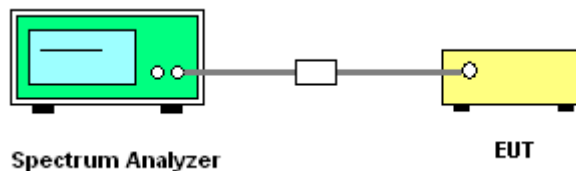
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

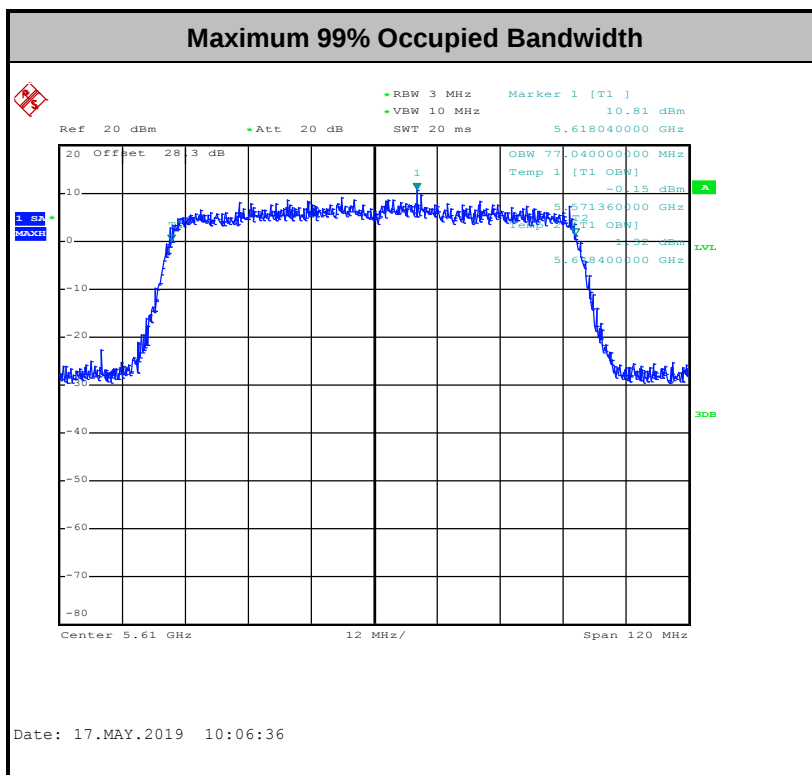
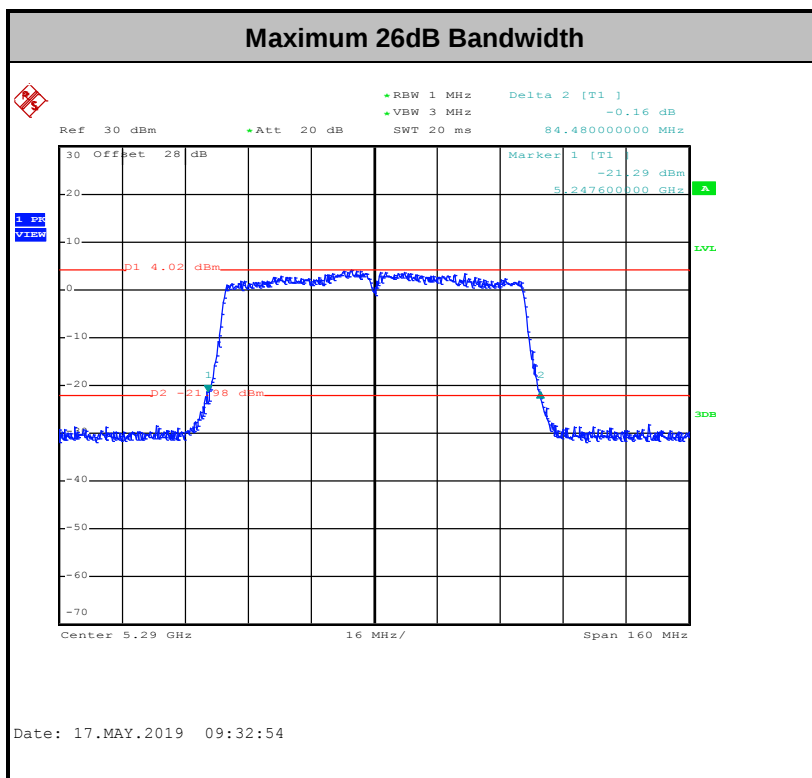


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



<CDD Mode>



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



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<CDD Modes>

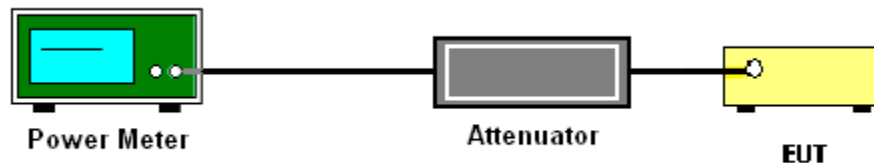
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

<CDD Modes>

Method SA-2

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

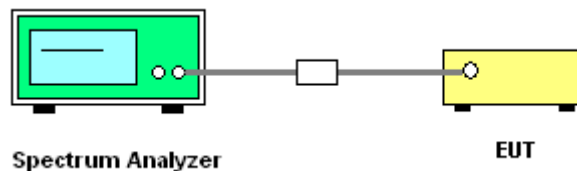
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, 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 PSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

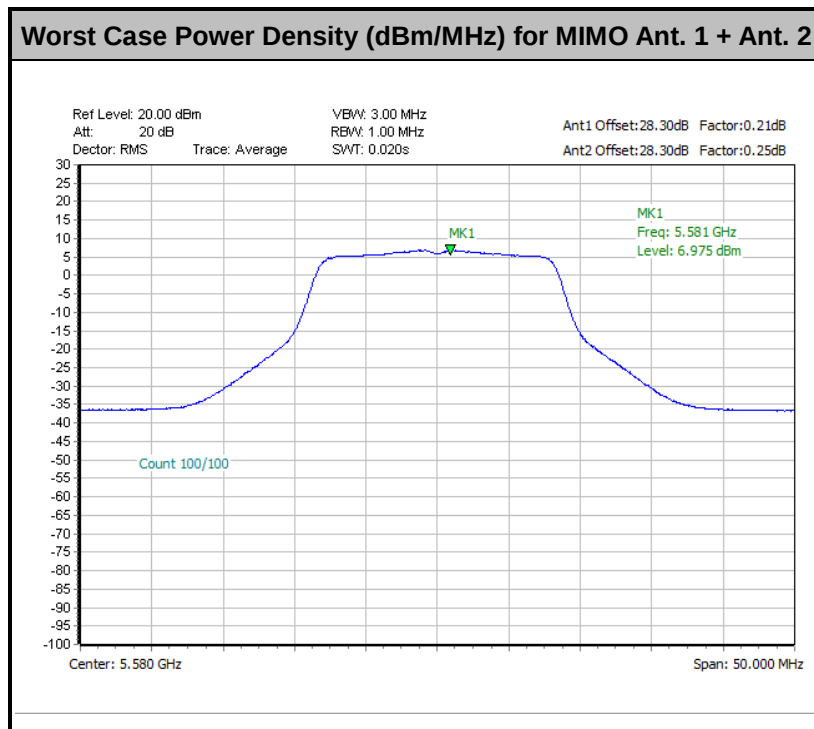
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Modes>



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

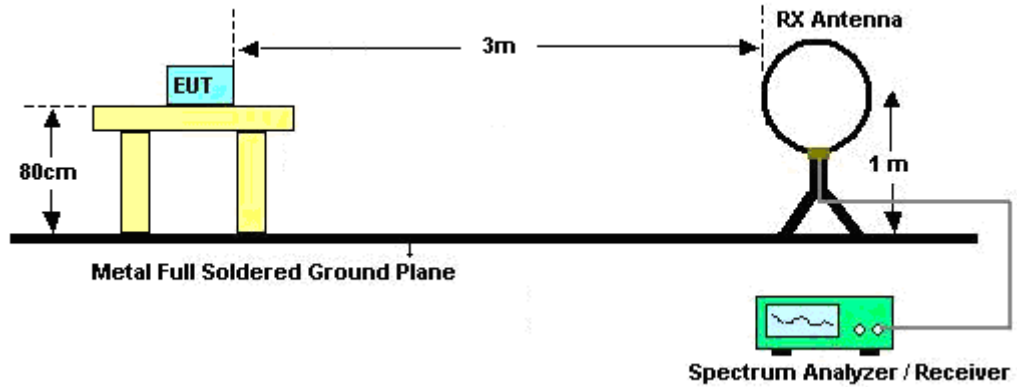
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold

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

- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, 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.

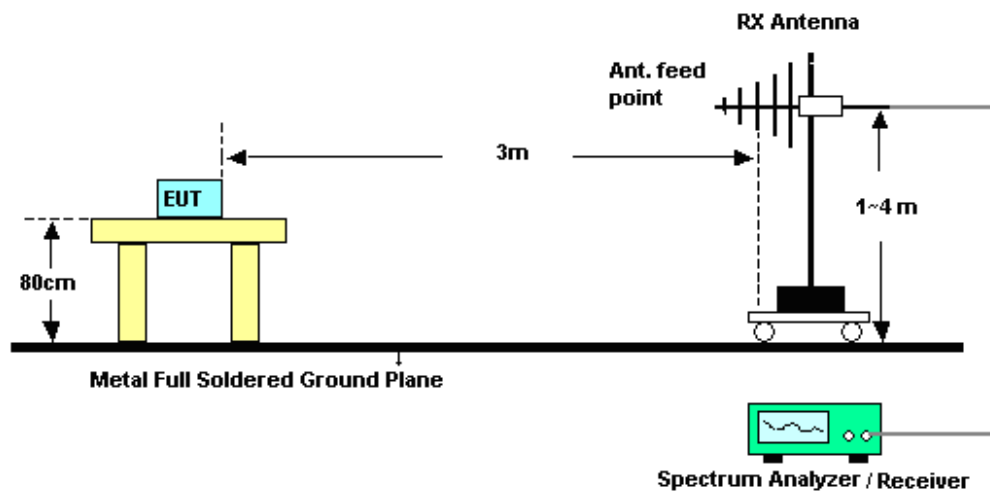
3.4.4 Test Setup

For radiated emissions below 30MHz



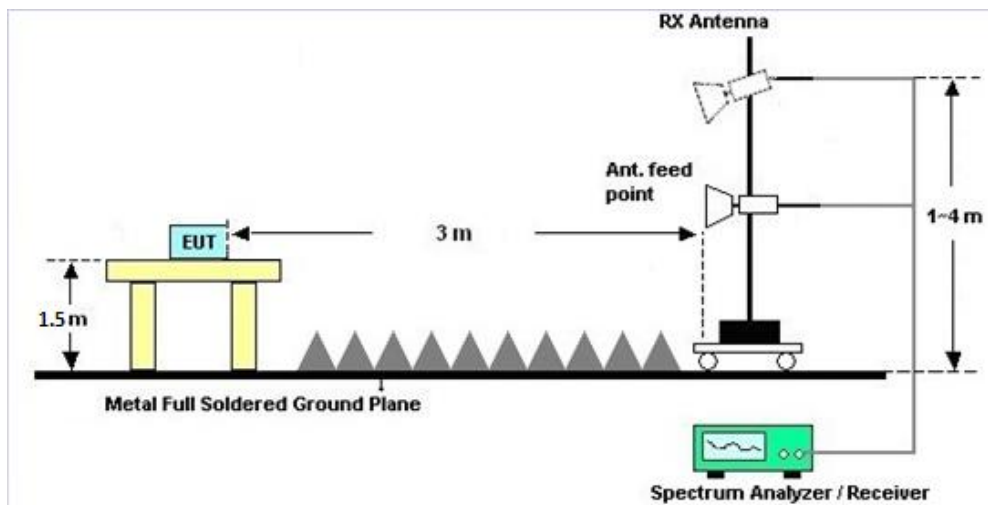
For radiated emissions from 30MHz to 1GHz

<CDD Mode>



For radiated emissions above 1GHz

<CDD Mode>



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

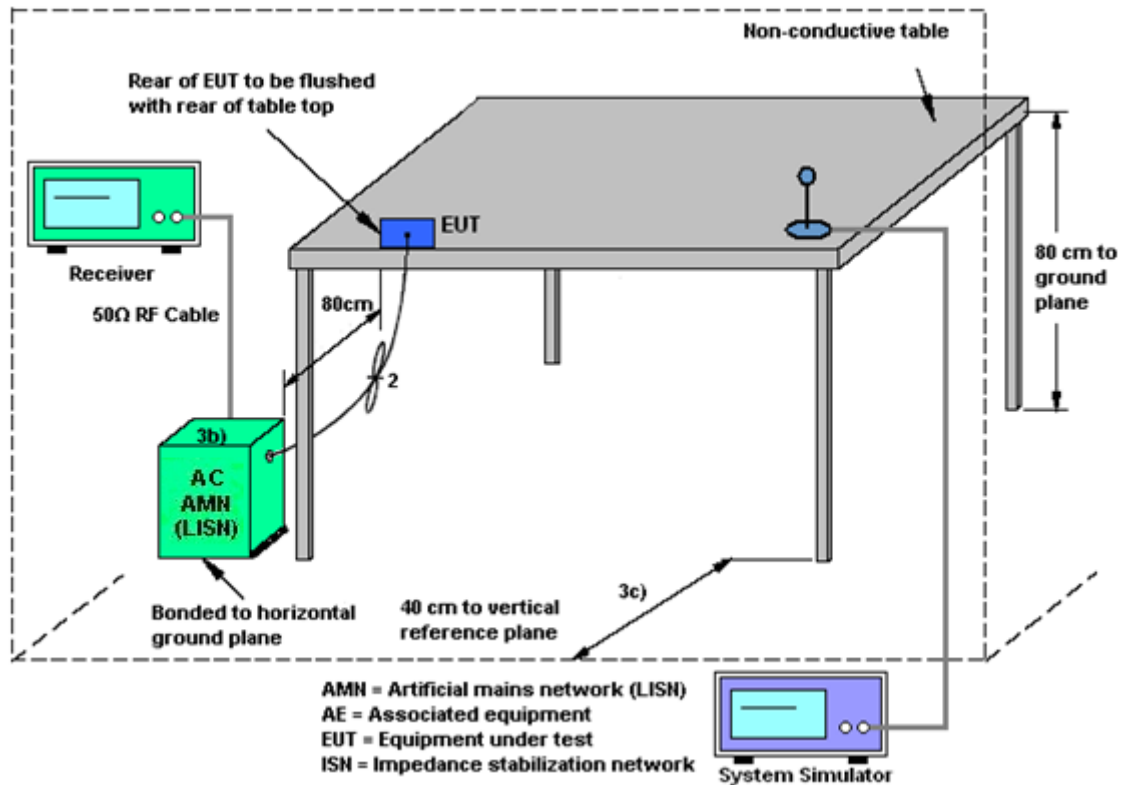
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

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

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $\text{NANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	0.80	1.00	1.00	3.91	0.00	0.00
Band II	0.20	1.20	1.20	3.72	0.00	0.00
Band III	-0.20	1.50	1.50	3.70	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 22, 2018	May 02, 2019~ May 04, 2019	Nov. 21, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D& N-6-06	35414&AT- N0602	30MHz~1GHz	Oct. 13, 2018	May 02, 2019~ May 04, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Oct. 30, 2018	May 02, 2019~ May 04, 2019	Oct. 29, 2019	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	May 02, 2019~ May 04, 2019	Dec. 04, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	May 02, 2019~ May 04, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0055007	1GHz~18GHz	Apr. 01, 2019	May 02, 2019~ May 04, 2019	Mar. 31, 2020	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 14, 2018	May 02, 2019~ May 04, 2019	Nov. 13, 2020	Radiation (03CH11-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	May 02, 2019~ May 04, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	May 02, 2019~ May 04, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 02, 2019~ May 04, 2019	N/A	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2018	May 02, 2019~ May 04, 2019	Oct. 18, 2019	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY541300 85	N/A	Nov. 01, 2018	May 02, 2019~ May 04, 2019	Oct. 31, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	May 02, 2019~ May 04, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 13, 2019	May 02, 2019~ May 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	May 02, 2019~ May 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 13, 2019	May 02, 2019~ May 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	May 02, 2019~ May 04, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN3	6.75GHz High Pass	Sep. 17, 2018	May 02, 2019~ May 04, 2019	Sep. 16, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1G Low Pass	Sep. 16, 2018	May 02, 2019~ May 04, 2019	Sep. 15, 2019	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 28, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Apr. 28, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Apr. 28, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Apr. 28, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 28, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Apr. 28, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Apr. 28, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 19, 2018	Apr. 24, 2019 ~ May 17, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO11	10MHz~6GHz	Dec. 19, 2018	Apr. 24, 2019 ~ May 17, 2019	Dec. 18, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Apr. 24, 2019 ~ May 17, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	Apr. 24, 2019 ~ May 17, 2019	Mar. 26, 2020	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.20
---	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
---	-----

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Creed Wu	Temperature:	21~25	°C
Test Date:	2019/4/24~2019/5/17	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	16.75	16.65	25.50	23.94	-		22.21		
11a	6Mbps	2	44	5220	16.75	16.70	24.80	24.37	-		22.23		
11a	6Mbps	2	48	5240	16.65	16.75	24.35	24.20	-		22.21		
HT20	MCS0	2	36	5180	17.85	17.95	25.25	25.10	-		22.52		
HT20	MCS0	2	44	5220	17.85	17.90	26.15	25.15	-		22.52		
HT20	MCS0	2	48	5240	17.95	17.85	25.85	26.25	-		22.52		
HT40	MCS0	2	38	5190	36.60	36.60	41.94	42.30	-		23.01		
HT40	MCS0	2	46	5230	36.60	36.70	42.13	41.94	-		23.01		
VHT80	MCS0	2	42	5210	76.92	76.92	83.52	83.20	-		23.01		

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	13.50	13.90	16.71	24.00		1.00			Pass
11a	6Mbps	2	44	5220	13.50	13.70	16.61	24.00		1.00			Pass
11a	6Mbps	2	48	5240	13.50	13.80	16.66	24.00		1.00			Pass
HT20	MCS0	2	36	5180	13.60	13.90	16.76	24.00		1.00			Pass
HT20	MCS0	2	44	5220	13.50	13.90	16.71	24.00		1.00			Pass
HT20	MCS0	2	48	5240	13.50	13.90	16.71	24.00		1.00			Pass
HT40	MCS0	2	38	5190	13.50	13.80	16.66	24.00		1.00			Pass
HT40	MCS0	2	46	5230	13.40	13.80	16.61	24.00		1.00			Pass
VHT20	MCS0	2	36	5180	12.60	12.90	15.76	24.00		1.00			Pass
VHT20	MCS0	2	44	5220	12.50	12.90	15.71	24.00		1.00			Pass
VHT20	MCS0	2	48	5240	12.50	12.90	15.71	24.00		1.00			Pass
VHT40	MCS0	2	38	5190	12.50	12.90	15.71	24.00		1.00			Pass
VHT40	MCS0	2	46	5230	12.40	12.70	15.56	24.00		1.00			Pass
VHT80	MCS0	2	42	5210	12.50	12.80	15.66	24.00		1.00			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.21	0.25			6.50	11.00	3.91			Pass	
11a	6Mbps	2	44	5220	0.21	0.25			6.31	11.00	3.91			Pass	
11a	6Mbps	2	48	5240	0.21	0.25			6.26	11.00	3.91			Pass	
HT20	MCS0	2	36	5180	0.23	0.26			6.22	11.00	3.91			Pass	
HT20	MCS0	2	44	5220	0.23	0.26			5.75	11.00	3.91			Pass	
HT20	MCS0	2	48	5240	0.23	0.26			5.71	11.00	3.91			Pass	
HT40	MCS0	2	38	5190	0.46	0.49			3.23	11.00	3.91			Pass	
HT40	MCS0	2	46	5230	0.46	0.49			2.84	11.00	3.91			Pass	
VHT80	MCS0	2	42	5210	0.50	0.56			-1.48	11.00	3.91			Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.70	16.70	24.60	24.95	23.23		29.23		23.98		
11a	6Mbps	2	60	5300	16.70	16.75	24.55	24.15	23.23		29.23		23.98		
11a	6Mbps	2	64	5320	16.70	16.70	24.35	23.90	23.23		29.23		23.98		
HT20	MCS0	2	52	5260	17.90	17.85	25.50	25.50	23.52		29.52		23.98		
HT20	MCS0	2	60	5300	17.85	17.90	25.80	25.60	23.52		29.52		23.98		
HT20	MCS0	2	64	5320	17.95	17.90	25.75	25.55	23.53		29.53		23.98		
HT40	MCS0	2	54	5270	36.60	36.60	42.35	42.39	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.70	36.70	42.30	42.12	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.92	76.92	84.48	84.16	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II													
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	13.80	13.80	16.81	23.98		1.20		26.99	Pass
11a	6Mbps	2	60	5300	13.50	13.60	16.56	23.98		1.20		26.99	Pass
11a	6Mbps	2	64	5320	13.50	13.50	16.51	23.98		1.20		26.99	Pass
HT20	MCS0	2	52	5260	13.80	13.90	16.86	23.98		1.20		26.99	Pass
HT20	MCS0	2	60	5300	13.60	13.70	16.66	23.98		1.20		26.99	Pass
HT20	MCS0	2	64	5320	13.50	13.60	16.56	23.98		1.20		26.99	Pass
HT40	MCS0	2	54	5270	13.50	13.60	16.56	23.98		1.20		26.99	Pass
HT40	MCS0	2	62	5310	13.70	13.80	16.76	23.98		1.20		26.99	Pass
VHT20	MCS0	2	52	5260	12.50	12.70	15.61	23.98		1.20		26.99	Pass
VHT20	MCS0	2	60	5300	12.50	12.60	15.56	23.98		1.20		26.99	Pass
VHT20	MCS0	2	64	5320	12.50	12.70	15.61	23.98		1.20		26.99	Pass
VHT40	MCS0	2	54	5270	12.70	12.90	15.81	23.98		1.20		26.99	Pass
VHT40	MCS0	2	62	5310	12.70	12.90	15.81	23.98		1.20		26.99	Pass
VHT80	MCS0	2	58	5290	12.50	12.70	15.61	23.98		1.20		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.21	0.25			6.63	11.00	3.72			Pass	
11a	6Mbps	2	60	5300	0.21	0.25			6.05	11.00	3.72			Pass	
11a	6Mbps	2	64	5320	0.21	0.25			5.80	11.00	3.72			Pass	
HT20	MCS0	2	52	5260	0.23	0.26			6.09	11.00	3.72			Pass	
HT20	MCS0	2	60	5300	0.23	0.26			5.60	11.00	3.72			Pass	
HT20	MCS0	2	64	5320	0.23	0.26			5.24	11.00	3.72			Pass	
HT40	MCS0	2	54	5270	0.46	0.49			2.76	11.00	3.72			Pass	
HT40	MCS0	2	62	5310	0.46	0.49			2.99	11.00	3.72			Pass	
VHT80	MCS0	2	58	5290	0.50	0.56			-1.49	11.00	3.72			Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	16.70	16.75	24.60	24.75	23.23		29.23		23.98		----	----
11a	6Mbps	2	116	5580	16.75	16.75	25.40	25.10	23.24		29.24		23.98		----	----
11a	6Mbps	2	140	5700	16.70	16.70	25.05	24.55	23.23		29.23		23.98		----	----
11a	6Mbps	2	144	5720	13.40	13.40	17.35	16.80	22.27		28.27		23.25		2.75	3.1
HT20	MCS0	2	100	5500	17.85	17.90	26.10	25.10	23.52		29.52		23.98		----	----
HT20	MCS0	2	116	5580	17.90	17.85	25.65	25.45	23.52		29.52		23.98		----	----
HT20	MCS0	2	140	5700	17.85	17.95	25.55	25.30	23.52		29.52		23.98		----	----
HT20	MCS0	2	144	5720	14.00	14.00	17.45	18.00	22.46		28.46		23.42		3.1	3.35
HT40	MCS0	2	102	5510	36.60	36.50	42.12	42.30	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.60	36.50	42.66	42.12	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	36.50	36.50	42.12	42.12	23.98		30.00		23.98		----	----
HT40	MCS0	2	142	5710	33.40	33.30	36.15	36.15	23.98		30.00		23.98		3.1	3.18
VHT80	MCS0	2	106	5530	76.92	76.80	84.48	82.98	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	77.04	76.92	84.00	84.16	23.98		30.00		23.98		----	----
VHT80	MCS0	2	138	5690	73.40	73.40	76.92	76.60	23.98		30.00		23.98		2.5	2.5

TEST RESULTS DATA
Average Power Table

FCC Band III													
Mod.	Data Rate	Nrx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	13.50	13.70	16.61	23.98		1.50		26.99	Pass
11a	6Mbps	2	116	5580	13.70	13.90	16.81	23.98		1.50		26.99	Pass
11a	6Mbps	2	140	5700	13.70	13.60	16.66	23.98		1.50		26.99	Pass
11a	6Mbps	2	144	5720	13.80	13.80	16.81	23.25		1.50		26.99	Pass
HT20	MCS0	2	100	5500	13.60	13.70	16.66	23.98		1.50		26.99	Pass
HT20	MCS0	2	116	5580	13.80	13.90	16.86	23.98		1.50		26.99	Pass
HT20	MCS0	2	140	5700	13.80	13.60	16.71	23.98		1.50		26.99	Pass
HT20	MCS0	2	144	5720	13.90	13.80	16.86	23.42		1.50		26.99	Pass
HT40	MCS0	2	102	5510	13.50	13.80	16.66	23.98		1.50		26.99	Pass
HT40	MCS0	2	110	5550	13.60	13.90	16.76	23.98		1.50		26.99	Pass
HT40	MCS0	2	134	5670	13.60	13.60	16.61	23.98		1.50		26.99	Pass
HT40	MCS0	2	142	5710	13.70	13.70	16.71	23.98		1.50		26.99	Pass
VHT20	MCS0	2	100	5500	12.80	12.90	15.86	23.98		1.50		26.99	Pass
VHT20	MCS0	2	116	5580	12.80	12.90	15.86	23.98		1.50		26.99	Pass
VHT20	MCS0	2	140	5700	12.60	12.60	15.61	23.98		1.50		26.99	Pass
VHT20	MCS0	2	144	5720	12.70	12.70	15.71	23.42		1.50		26.99	Pass
VHT40	MCS0	2	102	5510	12.60	12.90	15.76	23.98		1.50		26.99	Pass
VHT40	MCS0	2	110	5550	12.50	12.90	15.71	23.98		1.50		26.99	Pass
VHT40	MCS0	2	134	5670	12.70	12.60	15.66	23.98		1.50		26.99	Pass
VHT40	MCS0	2	142	5710	12.70	12.70	15.71	23.98		1.50		26.99	Pass
VHT80	MCS0	2	106	5530	12.50	12.80	15.66	23.98		1.50		26.99	Pass
VHT80	MCS0	2	122	5610	12.60	12.90	15.76	23.98		1.50		26.99	Pass
VHT80	MCS0	2	138	5690	12.60	12.60	15.61	23.98		1.50		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	0.21	0.25			6.32	11.00	3.70			Pass
11a	6Mbps	2	116	5580	0.21	0.25			6.98	11.00	3.70			Pass
11a	6Mbps	2	140	5700	0.21	0.25			6.41	11.00	3.70			Pass
11a	6Mbps	2	144	5720	0.21	0.25			6.84	11.00	3.70			Pass
HT20	MCS0	2	100	5500	0.23	0.26			5.87	11.00	3.70			Pass
HT20	MCS0	2	116	5580	0.23	0.26			6.41	11.00	3.70			Pass
HT20	MCS0	2	140	5700	0.23	0.26			6.05	11.00	3.70			Pass
HT20	MCS0	2	144	5720	0.23	0.26			6.41	11.00	3.70			Pass
HT40	MCS0	2	102	5510	0.46	0.49			3.13	11.00	3.70			Pass
HT40	MCS0	2	110	5550	0.46	0.49			3.54	11.00	3.70			Pass
HT40	MCS0	2	134	5670	0.46	0.49			3.27	11.00	3.70			Pass
HT40	MCS0	2	142	5710	0.46	0.49			3.44	11.00	3.70			Pass
VHT80	MCS0	2	106	5530	0.50	0.56			-1.14	11.00	3.70			Pass
VHT80	MCS0	2	122	5610	0.50	0.56			-0.82	11.00	3.70			Pass
VHT80	MCS0	2	138	5690	0.50	0.56			-1.00	11.00	3.70			Pass



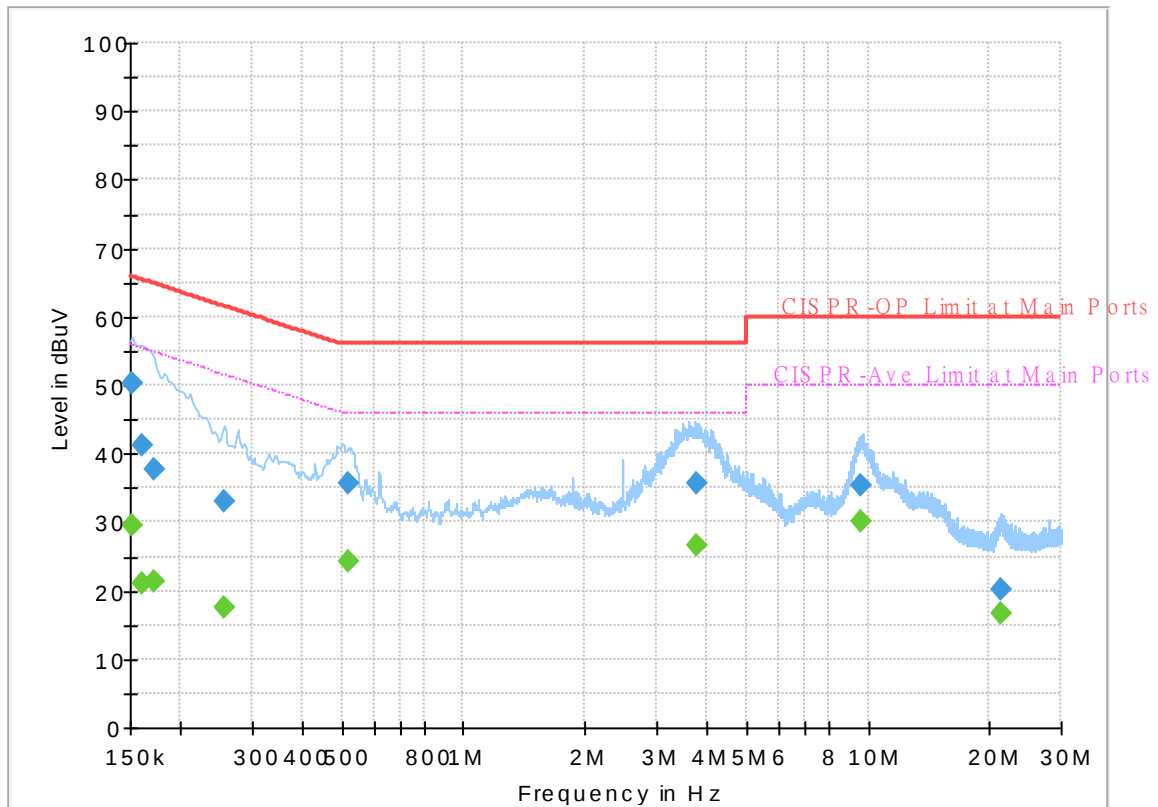
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	24~26℃
		Relative Humidity :	51~53%

EUT Information

Report NO : 8N0701-02
Test Mode : Mode 1
Test Voltage : Power From System
Phase : Line

Full Spectrum



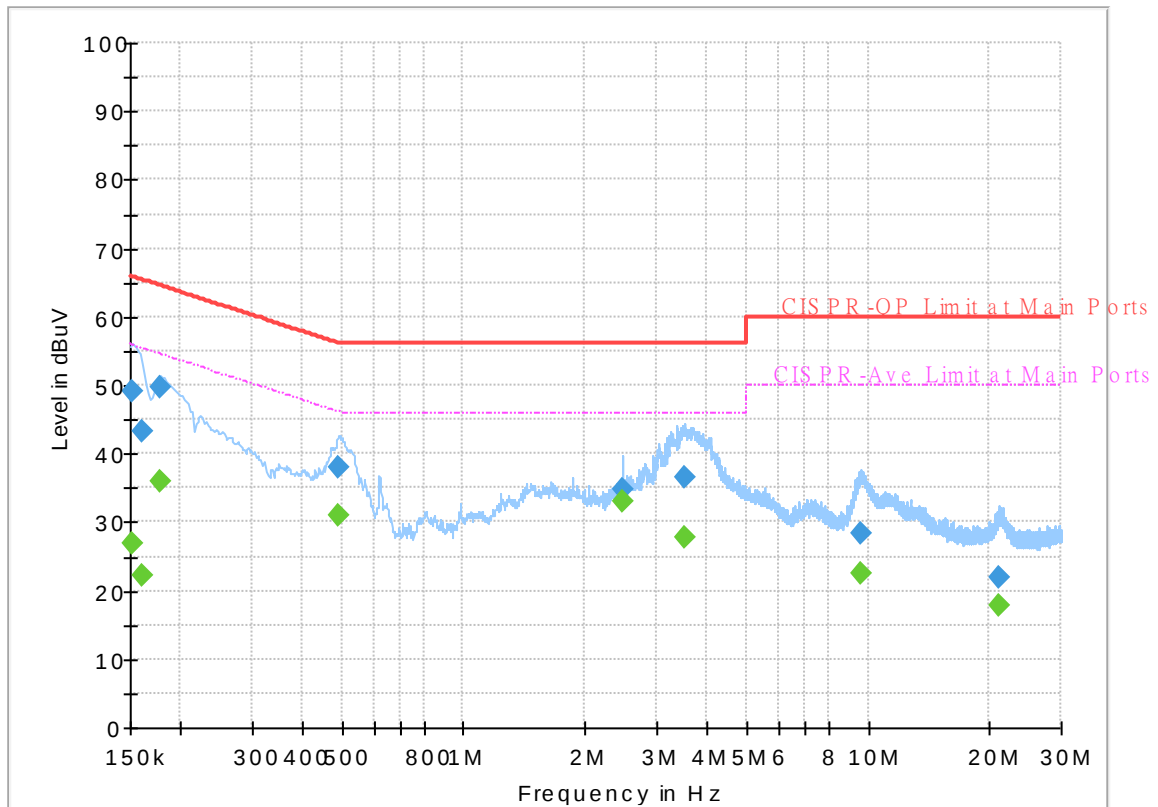
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.61	55.88	26.27	L1	OFF	19.5
0.152250	50.16	---	65.88	15.72	L1	OFF	19.5
0.161250	---	20.98	55.40	34.42	L1	OFF	19.5
0.161250	41.17	---	65.40	24.23	L1	OFF	19.5
0.172500	---	21.33	54.84	33.51	L1	OFF	19.5
0.172500	37.77	---	64.84	27.07	L1	OFF	19.5
0.255750	---	17.51	51.57	34.06	L1	OFF	19.5
0.255750	33.04	---	61.57	28.53	L1	OFF	19.5
0.516750	---	24.41	46.00	21.59	L1	OFF	19.5
0.516750	35.71	---	56.00	20.29	L1	OFF	19.5
3.750000	---	26.50	46.00	19.50	L1	OFF	19.6
3.750000	35.73	---	56.00	20.27	L1	OFF	19.6
9.631500	---	30.16	50.00	19.84	L1	OFF	19.7
9.631500	35.48	---	60.00	24.52	L1	OFF	19.7
21.311250	---	16.54	50.00	33.46	L1	OFF	19.8
21.311250	20.21	---	60.00	39.79	L1	OFF	19.8

EUT Information

Report NO : 8N0701-02
Test Mode : Mode 1
Test Voltage : Power From System
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	26.76	55.88	29.12	N	OFF	19.5
0.152250	49.26	---	65.88	16.62	N	OFF	19.5
0.161250	---	22.23	55.40	33.17	N	OFF	19.5
0.161250	43.17	---	65.40	22.23	N	OFF	19.5
0.177000	---	35.96	54.63	18.67	N	OFF	19.5
0.177000	49.71	---	64.63	14.92	N	OFF	19.5
0.489750	---	31.10	46.17	15.07	N	OFF	19.5
0.489750	38.03	---	56.17	18.14	N	OFF	19.5
2.476500	---	32.98	46.00	13.02	N	OFF	19.5
2.476500	34.80	---	56.00	21.20	N	OFF	19.5
3.511500	---	27.90	46.00	18.10	N	OFF	19.6
3.511500	36.55	---	56.00	19.45	N	OFF	19.6
9.595500	---	22.63	50.00	27.37	N	OFF	19.7
9.595500	28.49	---	60.00	31.51	N	OFF	19.7
21.176250	---	17.97	50.00	32.03	N	OFF	19.9
21.176250	21.89	---	60.00	38.11	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	HAO, Fu Chen amd KEN Wu	Temperature :	21~26°C
		Relative Humidity :	52~58%

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		5140.92	55.9	-18.1	74	47.11	31.88	10.03	33.12	202	308	P	H
		5143.52	43.56	-10.44	54	34.76	31.89	10.03	33.12	202	308	A	H
	*	5180	108.49	-	-	99.82	31.72	10.07	33.12	202	308	P	H
	*	5180	100.81	-	-	92.14	31.72	10.07	33.12	202	308	A	H
													H
													H
		5146.12	54.63	-19.37	74	45.83	31.89	10.03	33.12	289	5	P	V
		5146.12	42.83	-11.17	54	34.03	31.89	10.03	33.12	289	5	A	V
	*	5180	108.06	-	-	99.39	31.72	10.07	33.12	289	5	P	V
	*	5180	100.39	-	-	91.72	31.72	10.07	33.12	289	5	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5111.8	50.88	-23.12	74	42.19	31.82	9.99	33.12	400	331	P	H
		5138.84	42.15	-11.85	54	33.37	31.88	10.02	33.12	400	331	A	H
	*	5220	108.16	-	-	99.66	31.52	10.1	33.12	400	331	P	H
	*	5220	100.83	-	-	92.33	31.52	10.1	33.12	400	331	A	H
		5383.6	49.53	-24.47	74	40.99	31.5	10.15	33.11	400	331	P	H
		5448.94	40.18	-13.82	54	31.36	31.7	10.23	33.11	400	331	A	H
		5139.1	51.45	-22.55	74	42.67	31.88	10.02	33.12	223	353	P	V
		5149.76	42.22	-11.78	54	33.41	31.9	10.03	33.12	223	353	A	V
	*	5220	108.45	-	-	99.94	31.53	10.1	33.12	223	353	P	V
	*	5220	100.76	-	-	92.25	31.53	10.1	33.12	223	353	A	V
		5430.31	50.08	-23.92	74	41.33	31.66	10.2	33.11	223	353	P	V
		5444.35	40.3	-13.7	54	31.5	31.69	10.22	33.11	223	353	A	V



802.11n HT20 CH 48 5240MHz		5035.36	50.07	-23.93	74	41.74	31.54	9.91	33.12	400	334	P	H
		5137.02	41.43	-12.57	54	32.66	31.87	10.02	33.12	400	334	A	H
	*	5240	108.01	-	-	99.59	31.44	10.1	33.12	400	334	P	H
	*	5240	100.37	-	-	91.95	31.44	10.1	33.12	400	334	A	H
		5359.03	49.38	-24.62	74	41	31.35	10.14	33.11	400	334	P	H
		5450.29	40.21	-13.79	54	31.39	31.7	10.23	33.11	400	334	A	H
		5114.14	51.72	-22.28	74	43.01	31.83	10	33.12	208	354	P	V
		5087.36	41.5	-12.5	54	32.9	31.75	9.97	33.12	208	354	A	V
	*	5240	107.96	-	-	99.54	31.44	10.1	33.12	208	354	P	V
	*	5240	100.46	-	-	92.04	31.44	10.1	33.12	208	354	A	V
		5449.75	49.34	-24.66	74	40.52	31.7	10.23	33.11	208	354	P	V
		5437.06	40.22	-13.78	54	31.45	31.67	10.21	33.11	208	354	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	45.88	-22.32	68.2	50.98	39.54	16.12	60.76	100	0	P	H
		15540	44.84	-29.16	74	47.53	38.3	20.56	61.55	100	0	P	H
													H
													H
		10360	44.75	-23.45	68.2	49.85	39.54	16.12	60.76	100	0	P	V
		15540	45.77	-28.23	74	48.46	38.3	20.56	61.55	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	45.4	-22.8	68.2	50.49	39.7	16.17	60.96	100	0	P	H
		15660	44.59	-29.41	74	47.77	37.7	20.53	61.41	100	0	P	H
													H
													H
		10440	45.75	-22.45	68.2	50.84	39.7	16.17	60.96	100	0	P	V
		15660	44.02	-29.98	74	47.2	37.7	20.53	61.41	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	46.38	-21.82	68.2	51.53	39.7	16.2	61.05	100	0	P	H
		15720	44.66	-29.34	74	47.96	37.52	20.52	61.34	100	0	P	H
													H
													H
		10480	45.63	-22.57	68.2	50.78	39.7	16.2	61.05	100	0	P	V
		15720	45.2	-28.8	74	48.5	37.52	20.52	61.34	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5132.08	53.99	-20.01	74	45.23	31.86	10.02	33.12	198	52	P	H
		5149.24	43.09	-10.91	54	34.28	31.9	10.03	33.12	198	52	A	H
	*	5190	104.19	-	-	95.57	31.66	10.08	33.12	198	52	P	H
	*	5190	95.63	-	-	87.01	31.66	10.08	33.12	198	52	A	H
		5447.68	49.52	-24.48	74	40.71	31.7	10.22	33.11	198	52	P	H
		5441.24	40.13	-13.87	54	31.35	31.68	10.21	33.11	198	52	A	H
		5146.64	50.43	-23.57	74	41.63	31.89	10.03	33.12	267	360	P	V
		5146.12	43.02	-10.98	54	34.22	31.89	10.03	33.12	267	360	A	V
	*	5190	104.74	-	-	96.12	31.66	10.08	33.12	267	360	P	V
	*	5190	96.22	-	-	87.6	31.66	10.08	33.12	267	360	A	V
		5373.48	48.56	-25.44	74	40.09	31.44	10.14	33.11	267	360	P	V
		5418.56	39.9	-14.1	54	31.19	31.64	10.18	33.11	267	360	A	V
802.11n HT40 CH 46 5230MHz		5065.26	50.59	-23.41	74	42.11	31.66	9.94	33.12	278	51	P	H
		5147.42	41.52	-12.48	54	32.72	31.89	10.03	33.12	278	51	A	H
	*	5230	104.16	-	-	95.7	31.48	10.1	33.12	278	51	P	H
	*	5230	95.36	-	-	86.9	31.48	10.1	33.12	278	51	A	H
		5380.9	49.23	-24.77	74	40.71	31.49	10.14	33.11	278	51	P	H
		5452.99	40.47	-13.53	54	31.64	31.71	10.23	33.11	278	51	A	H
		5144.82	49.84	-24.16	74	41.04	31.89	10.03	33.12	252	0	P	V
		5148.46	41.73	-12.27	54	32.92	31.9	10.03	33.12	252	0	A	V
	*	5230	104.17	-	-	95.71	31.48	10.1	33.12	252	0	P	V
	*	5230	95.88	-	-	87.42	31.48	10.1	33.12	252	0	A	V
		5456.77	49.01	-24.99	74	40.15	31.73	10.24	33.11	252	0	P	V
		5444.08	40.09	-13.91	54	31.29	31.69	10.22	33.11	252	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5148.58	53.71	-20.29	74	44.9	31.9	10.03	33.12	376	345	P	H
		5145.18	46.58	-7.42	54	37.78	31.89	10.03	33.12	376	345	A	H
	*	5210	101.84	-	-	93.29	31.58	10.09	33.12	376	345	P	H
	*	5210	94.15	-	-	85.6	31.58	10.09	33.12	376	345	A	H
		5456.62	48.08	-25.92	74	39.22	31.73	10.24	33.11	376	345	P	H
		5438.16	41.36	-12.64	54	32.58	31.68	10.21	33.11	376	345	A	H
		5136	52.79	-21.21	74	44.02	31.87	10.02	33.12	218	343	P	V
		5136.68	45.5	-8.5	54	36.73	31.87	10.02	33.12	218	343	A	V
	*	5210	100.94	-	-	92.41	31.56	10.09	33.12	218	343	P	V
	*	5210	93.68	-	-	85.15	31.56	10.09	33.12	218	343	A	V
		5456.88	50.4	-23.6	74	41.54	31.73	10.24	33.11	218	343	P	V
		5450.12	41.55	-12.45	54	32.73	31.7	10.23	33.11	218	343	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5133.96	50.6	-23.4	74	41.83	31.87	10.02	33.12	376	334	P	H
		5102.68	41.57	-12.43	54	32.9	31.81	9.98	33.12	376	334	A	H
	*	5260	108.62	-	-	100.24	31.38	10.11	33.11	376	334	P	H
	*	5260	101	-	-	92.62	31.38	10.11	33.11	376	334	A	H
		5371.44	49.88	-24.12	74	41.42	31.43	10.14	33.11	376	334	P	H
		5453.04	40.3	-13.7	54	31.47	31.71	10.23	33.11	376	334	A	H
		5114.24	51.12	-22.88	74	42.41	31.83	10	33.12	249	357	P	V
		5113.22	41.54	-12.46	54	32.84	31.83	9.99	33.12	249	357	A	V
	*	5260	108.02	-	-	99.64	31.38	10.11	33.11	249	357	P	V
	*	5260	100.25	-	-	91.87	31.38	10.11	33.11	249	357	A	V
		5460	49.92	-24.08	74	41.05	31.74	10.24	33.11	249	357	P	V
		5459.52	40.31	-13.69	54	31.44	31.74	10.24	33.11	249	357	A	V
802.11n HT20 CH 60 5300MHz		5090.1	50.99	-23.01	74	42.38	31.76	9.97	33.12	391	333	P	H
		5077.18	41.51	-12.49	54	32.97	31.71	9.95	33.12	391	333	A	H
	*	5300	107.68	-	-	99.37	31.3	10.12	33.11	391	333	P	H
	*	5300	99.92	-	-	91.61	31.3	10.12	33.11	391	333	A	H
		5354.4	55.06	-18.94	74	46.7	31.33	10.14	33.11	391	333	P	H
		5351.28	41.41	-12.59	54	33.07	31.31	10.14	33.11	391	333	A	H
		5145.52	51.6	-22.4	74	42.8	31.89	10.03	33.12	232	360	P	V
		5127.5	41.28	-12.72	54	32.54	31.85	10.01	33.12	232	360	A	V
	*	5300	107.19	-	-	98.88	31.3	10.12	33.11	232	360	P	V
	*	5300	99.37	-	-	91.06	31.3	10.12	33.11	232	360	A	V
		5364.48	53	-21	74	44.58	31.39	10.14	33.11	232	360	P	V
		5353.68	40.98	-13.02	54	32.63	31.32	10.14	33.11	232	360	A	V



802.11n HT20 CH 64 5320MHz	*	5320	107.66	-	-	99.34	31.3	10.13	33.11	387	337	P	H
	*	5320	99.85	-	-	91.53	31.3	10.13	33.11	387	337	A	H
		5354.72	58.89	-15.11	74	50.53	31.33	10.14	33.11	387	337	P	H
		5359.36	42.74	-11.26	54	34.35	31.36	10.14	33.11	387	337	A	H
													H
													H
	*	5320	106.86	-	-	98.54	31.3	10.13	33.11	220	351	P	V
	*	5320	99.18	-	-	90.86	31.3	10.13	33.11	220	351	A	V
		5359.52	58.07	-15.93	74	49.68	31.36	10.14	33.11	220	351	P	V
		5353.44	41.87	-12.13	54	33.52	31.32	10.14	33.11	220	351	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	45	-23.2	68.2	50.2	39.7	16.22	61.12	100	0	P	H
		15780	45.57	-28.43	74	48.74	37.58	20.51	61.26	100	0	P	H
													H
													H
		10520	44.68	-23.52	68.2	49.88	39.7	16.22	61.12	100	0	P	V
		15780	44.67	-29.33	74	47.84	37.58	20.51	61.26	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	45.57	-28.43	74	50.82	39.7	16.27	61.22	100	0	P	H
		15900	44.72	-29.28	74	48.16	37.2	20.48	61.12	100	0	P	H
													H
													H
		10600	46.03	-27.97	74	51.28	39.7	16.27	61.22	100	0	P	V
		15900	44.05	-29.95	74	47.49	37.2	20.48	61.12	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	44.34	-29.66	74	49.65	39.66	16.3	61.27	100	0	P	H
		15960	42.72	-31.28	74	46.28	37.02	20.47	61.05	100	0	P	H
													H
													H
		10640	44.18	-29.82	74	49.49	39.66	16.3	61.27	100	0	P	V
		15960	43.12	-30.88	74	46.68	37.02	20.47	61.05	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5062.22	50.3	-23.7	74	41.83	31.65	9.94	33.12	354	346	P	H
		5097.24	42.29	-11.71	54	33.64	31.79	9.98	33.12	354	346	A	H
	*	5270	105.12	-	-	96.76	31.36	10.11	33.11	354	346	P	H
	*	5270	97.86	-	-	89.5	31.36	10.11	33.11	354	346	A	H
		5446.32	49.25	-24.75	74	40.45	31.69	10.22	33.11	354	346	P	H
		5360.16	42.47	-11.53	54	34.08	31.36	10.14	33.11	354	346	A	H
		5132.94	50.75	-23.25	74	41.98	31.87	10.02	33.12	200	69	P	V
		5081.6	42.32	-11.68	54	33.75	31.73	9.96	33.12	200	69	A	V
	*	5270	104.12	-	-	95.76	31.36	10.11	33.11	200	69	P	V
	*	5270	96.31	-	-	87.95	31.36	10.11	33.11	200	69	A	V
		5353.44	54.27	-19.73	74	45.92	31.32	10.14	33.11	200	69	P	V
		5353.2	42.32	-11.68	54	33.97	31.32	10.14	33.11	200	69	A	V
802.11n HT40 CH 62 5310MHz		5044.2	50.91	-23.09	74	42.53	31.58	9.92	33.12	346	337	P	H
		5067.66	42.22	-11.78	54	33.73	31.67	9.94	33.12	346	337	A	H
	*	5310	105.76	-	-	97.45	31.3	10.12	33.11	346	337	P	H
	*	5310	98.02	-	-	89.71	31.3	10.12	33.11	346	337	A	H
		5365.68	55.38	-18.62	74	46.96	31.39	10.14	33.11	346	337	P	H
		5350.32	47.58	-6.42	54	39.25	31.3	10.14	33.11	346	337	A	H
		5149.26	51.34	-22.66	74	42.53	31.9	10.03	33.12	199	42	P	V
		5120.02	42.3	-11.7	54	33.58	31.84	10	33.12	199	42	A	V
	*	5310	105.3	-	-	96.99	31.3	10.12	33.11	199	42	P	V
	*	5310	97.08	-	-	88.77	31.3	10.12	33.11	199	42	A	V
		5361.36	54.72	-19.28	74	46.32	31.37	10.14	33.11	199	42	P	V
		5350.32	47.18	-6.82	54	38.85	31.3	10.14	33.11	199	42	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5100.8	50.56	-23.44	74	41.9	31.8	9.98	33.12	348	342	P	H
		5141.9	42.29	-11.71	54	33.5	31.88	10.03	33.12	348	342	A	H
	*	5290	100.96	-	-	92.63	31.32	10.12	33.11	348	342	P	H
	*	5290	93.5	-	-	85.17	31.32	10.12	33.11	348	342	A	H
		5350.32	55.1	-18.9	74	46.77	31.3	10.14	33.11	348	342	P	H
		5352.48	48.84	-5.16	54	40.5	31.31	10.14	33.11	348	342	A	H
		5046.2	50.8	-23.2	74	42.42	31.58	9.92	33.12	256	45	P	V
		5057.9	42.33	-11.67	54	33.89	31.63	9.93	33.12	256	45	A	V
	*	5290	100.3	-	-	91.97	31.32	10.12	33.11	256	45	P	V
	*	5290	92.22	-	-	83.89	31.32	10.12	33.11	256	45	A	V
		5351.04	55.7	-18.3	74	47.36	31.31	10.14	33.11	256	45	P	V
		5350.56	48.54	-5.46	54	40.21	31.3	10.14	33.11	256	45	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5455.28	55.05	-18.95	74	46.2	31.72	10.24	33.11	233	12	P	H
		5460.08	55.75	-12.45	68.2	46.88	31.74	10.24	33.11	233	12	P	H
		5458.16	43.72	-10.28	54	34.86	31.73	10.24	33.11	233	12	A	H
	*	5500	106.67	-	-	97.57	31.9	10.31	33.11	233	12	P	H
	*	5500	99.06	-	-	89.96	31.9	10.31	33.11	233	12	A	H
													H
		5452.08	54.61	-19.39	74	45.78	31.71	10.23	33.11	202	69	P	V
		5462.32	56.14	-12.06	68.2	47.25	31.75	10.25	33.11	202	69	P	V
		5459.6	42.33	-11.67	54	33.46	31.74	10.24	33.11	202	69	A	V
	*	5500	106.23	-	-	97.13	31.9	10.31	33.11	202	69	P	V
	*	5500	98.44	-	-	89.34	31.9	10.31	33.11	202	69	A	V
													V
802.11n HT20 CH 116 5580MHz		5441.68	49.33	-24.67	74	40.55	31.68	10.21	33.11	223	13	P	H
		5464.24	48.67	-19.53	68.2	39.77	31.76	10.25	33.11	223	13	P	H
		5453.2	40.35	-13.65	54	31.52	31.71	10.23	33.11	223	13	A	H
	*	5580	106.44	-	-	97.35	31.8	10.43	33.14	223	13	P	H
	*	5580	99.07	-	-	89.98	31.8	10.43	33.14	223	13	A	H
		5764.37	50.36	-17.84	68.2	40.87	32.13	10.55	33.19	223	13	P	H
		5425.36	49.66	-24.34	74	40.93	31.65	10.19	33.11	196	72	P	V
		5463.76	48.89	-19.31	68.2	39.99	31.76	10.25	33.11	196	72	P	V
		5452.48	40.23	-13.77	54	31.4	31.71	10.23	33.11	196	72	A	V
	*	5580	107.39	-	-	98.3	31.8	10.43	33.14	196	72	P	V
	*	5580	99.71	-	-	90.62	31.8	10.43	33.14	196	72	A	V
		5764.055	50.69	-17.51	68.2	41.2	32.13	10.55	33.19	196	72	P	V



802.11n HT20 CH 140 5700MHz	*	5700	105.83	-	-	96.49	32	10.51	33.17	206	3	P	H
	*	5700	98.18	-	-	88.84	32	10.51	33.17	206	3	A	H
		5730.04	58.88	-9.32	68.2	49.47	32.06	10.53	33.18	206	3	P	H
													H
													H
													H
	*	5700	108.28	-	-	98.94	32	10.51	33.17	303	27	P	V
	*	5700	100.82	-	-	91.48	32	10.51	33.17	303	27	A	V
		5727.08	61.25	-6.95	68.2	51.85	32.05	10.53	33.18	303	27	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	45.4	-28.6	74	50.59	40	16.51	61.7	100	0	P	H
		16500	45.81	-22.39	68.2	45.66	38.7	21.15	59.7	100	0	P	H
													H
													H
		11000	45.66	-28.34	74	50.85	40	16.51	61.7	100	0	P	V
		16500	45.87	-22.33	68.2	45.72	38.7	21.15	59.7	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	46.07	-27.93	74	51.71	39.48	16.74	61.86	100	0	P	H
		16740	46.33	-21.87	68.2	44.94	39.56	21.48	59.65	100	0	P	H
													H
													H
		11160	45.18	-28.82	74	50.82	39.48	16.74	61.86	100	0	P	V
		16740	46.94	-21.26	68.2	45.55	39.56	21.48	59.65	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	45.86	-28.14	74	51.17	39.7	17.09	62.1	100	0	P	H
		17100	47.34	-20.86	68.2	44.68	40.1	21.94	59.38	100	0	P	H
													H
													H
		11400	46.21	-27.79	74	51.52	39.7	17.09	62.1	100	0	P	V
		17100	47.64	-20.56	68.2	44.98	40.1	21.94	59.38	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5442.4	53.16	-20.84	74	44.37	31.68	10.22	33.11	300	334	P	H
		5463.76	53.4	-14.8	68.2	44.5	31.76	10.25	33.11	300	334	P	H
		5440.96	42.15	-11.85	54	33.37	31.68	10.21	33.11	300	334	A	H
	*	5510	104.42	-	-	95.33	31.88	10.32	33.11	300	334	P	H
	*	5510	96.04	-	-	86.95	31.88	10.32	33.11	300	334	A	H
		5735.705	49.46	-18.74	68.2	40.05	32.07	10.53	33.19	300	334	P	H
		5446	50.79	-23.21	74	41.99	31.69	10.22	33.11	174	340	P	V
		5469.52	51.54	-16.66	68.2	42.61	31.78	10.26	33.11	174	340	P	V
		5458	41.72	-12.28	54	32.86	31.73	10.24	33.11	174	340	A	V
	*	5510	103.74	-	-	94.65	31.88	10.32	33.11	174	340	P	V
	*	5510	95.68	-	-	86.59	31.88	10.32	33.11	174	340	A	V
		5731.61	49.13	-19.07	68.2	39.72	32.06	10.53	33.18	174	340	P	V
802.11n HT40 CH 110 5550MHz		5452.96	49.79	-24.21	74	40.96	31.71	10.23	33.11	183	360	P	H
		5467.36	50.36	-17.84	68.2	41.45	31.77	10.25	33.11	183	360	P	H
		5458.96	42.09	-11.91	54	33.22	31.74	10.24	33.11	183	360	A	H
	*	5550	103.1	-	-	94.05	31.8	10.38	33.13	183	360	P	H
	*	5550	95.59	-	-	86.54	31.8	10.38	33.13	183	360	A	H
		5747.36	50.27	-17.93	68.2	40.83	32.09	10.54	33.19	183	360	P	H
		5453.92	49.7	-24.3	74	40.86	31.72	10.23	33.11	200	52	P	V
		5469.52	49.89	-18.31	68.2	40.96	31.78	10.26	33.11	200	52	P	V
		5453.92	41.75	-12.25	54	32.91	31.72	10.23	33.11	200	52	A	V
	*	5550	103.98	-	-	94.93	31.8	10.38	33.13	200	52	P	V
	*	5550	104.15	-	-	95.1	31.8	10.38	33.13	200	52	A	V
		5765	50.74	-17.46	68.2	41.25	32.13	10.55	33.19	200	52	P	V



802.11n HT40 CH 134 5670MHz		5423.15	49.6	-24.4	74	40.87	31.65	10.19	33.11	200	355	P	H
		5466.55	49.48	-18.72	68.2	40.57	31.77	10.25	33.11	200	355	P	H
		5452.9	41.16	-12.84	54	32.33	31.71	10.23	33.11	200	355	A	H
	*	5670	103.24	-	-	94.08	31.82	10.5	33.16	200	355	P	H
	*	5670	95.43	-	-	86.27	31.82	10.5	33.16	200	355	A	H
		5748.025	52.55	-15.65	68.2	43.1	32.1	10.54	33.19	200	355	P	H
		5444.15	50.78	-23.22	74	41.98	31.69	10.22	33.11	172	21	P	V
		5465.5	51.33	-16.87	68.2	42.43	31.76	10.25	33.11	172	21	P	V
		5458.15	40.88	-13.12	54	32.02	31.73	10.24	33.11	172	21	A	V
	*	5670	105.8	-	-	96.64	31.82	10.5	33.16	172	21	P	V
	*	5670	97.87	-	-	88.71	31.82	10.5	33.16	172	21	A	V
		5732.975	53.73	-14.47	68.2	44.31	32.07	10.53	33.18	172	21	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5459.2	54.37	-19.63	74	45.5	31.74	10.24	33.11	199	356	P	H
		5469.04	53.54	-14.66	68.2	44.61	31.78	10.26	33.11	199	356	P	H
		5452.24	43.26	-10.74	54	34.43	31.71	10.23	33.11	199	356	A	H
	*	5530	99.09	-	-	90.02	31.84	10.35	33.12	199	356	P	H
	*	5530	91.21	-	-	82.14	31.84	10.35	33.12	199	356	A	H
		5729.72	49.45	-18.75	68.2	40.04	32.06	10.53	33.18	199	356	P	H
		5459.92	50.99	-23.01	74	42.12	31.74	10.24	33.11	204	52	P	V
		5463.28	54.1	-14.1	68.2	45.21	31.75	10.25	33.11	204	52	P	V
		5458.96	43.73	-10.27	54	34.86	31.74	10.24	33.11	204	52	A	V
	*	5530	100.07	-	-	91	31.84	10.35	33.12	204	52	P	V
	*	5530	92.22	-	-	83.15	31.84	10.35	33.12	204	52	A	V
		5746.415	49.78	-18.42	68.2	40.34	32.09	10.54	33.19	204	52	P	V
802.11ac VHT80 CH 122 5610MHz		5397.25	49.41	-24.59	74	40.79	31.58	10.15	33.11	206	354	P	H
		5459.9	48.45	-25.55	74	39.58	31.74	10.24	33.11	206	354	P	H
		5452.9	41.18	-12.82	54	32.35	31.71	10.23	33.11	206	354	A	H
	*	5610	98.97	-	-	89.87	31.78	10.47	33.15	206	354	P	H
	*	5610	99.11	-	-	90.01	31.78	10.47	33.15	206	354	A	H
		5756.6	50.87	-17.33	68.2	41.4	32.11	10.55	33.19	206	354	P	H
		5454.65	49.24	-24.76	74	40.4	31.72	10.23	33.11	196	52	P	V
		5465.85	49.82	-18.38	68.2	40.92	31.76	10.25	33.11	196	52	P	V
		5396.55	40.92	-13.08	54	32.3	31.58	10.15	33.11	196	52	A	V
	*	5610	101.95	-	-	92.85	31.78	10.47	33.15	196	52	P	V
	*	5610	93.85	-	-	84.75	31.78	10.47	33.15	196	52	A	V
		5733.5	50.41	-17.79	68.2	40.99	32.07	10.53	33.18	196	52	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz	*	5720	106.8	-	-	97.41	32.04	10.53	33.18	192	355	P	H
	*	5720	99.07	-	-	89.68	32.04	10.53	33.18	192	355	P	H
												A	H
												P	H
												A	H
												P	H
	*	5720	108.12	-	-	98.73	32.04	10.53	33.18	215	48	P	V
	*	5720	100.08	-	-	90.69	32.04	10.53	33.18	215	48	P	V
												A	V
												P	V
												A	V
												P	V
Remark - No other spurious found. - All results are PASS against Peak and Average limit line.													



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	46.1	-27.9	74	51.39	39.7	17.15	62.14	100	0	P	H
		17160	46.75	-21.45	68.2	43.73	40.28	21.99	59.25	100	0	P	H
													H
													H
		11440	46.71	-27.29	74	52	39.7	17.15	62.14	100	0	P	V
		17160	47.23	-20.97	68.2	44.21	40.28	21.99	59.25	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 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz	*	5710	103.41	-	-	94.05	32.02	10.52	33.18	178	348	P	H
	*	5710	95.58	-	-	86.22	32.02	10.52	33.18	178	348	P	H
												A	H
												P	H
												A	H
												P	H
	*	5710	106.5	-	-	97.14	32.02	10.52	33.18	211	22	P	V
	*	5710	98.65	-	-	89.29	32.02	10.52	33.18	211	22	P	V
												A	V
												P	V
												A	V
												P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	99.59	-	-	90.31	31.94	10.51	33.17	212	354	P	H
	*	5690	91.04	-	-	81.76	31.94	10.51	33.17	212	354	P	H
												A	H
												P	H
												A	H
												P	H
	*	5690	102.46	-	-	93.18	31.94	10.51	33.17	185	21	P	V
	*	5690	94.34	-	-	85.06	31.94	10.51	33.17	185	21	P	V
												A	V
												P	V
												A	V
												P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

[illegible]



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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



Appendix D. Radiated Spurious Emission

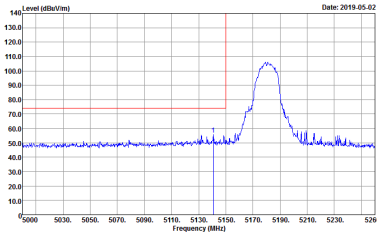
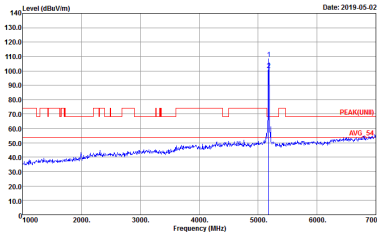
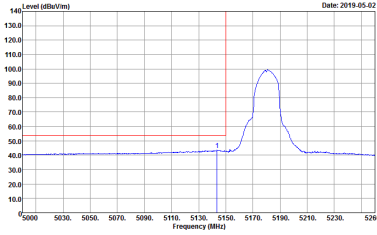
Test Engineer :	HAO, Fu Chen and KEN Wu	Temperature :	21~26°C
		Relative Humidity :	52~58%

Note symbol

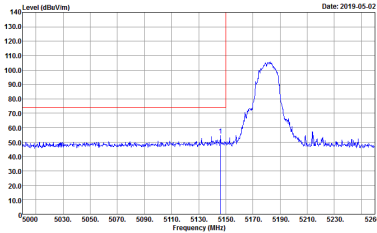
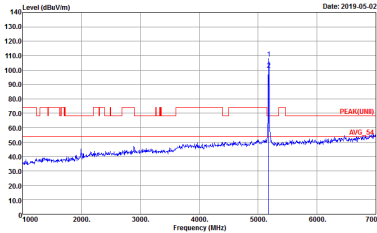
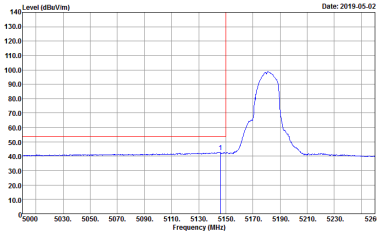
-L	Low channel location
-R	High channel location

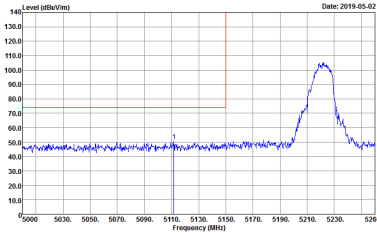
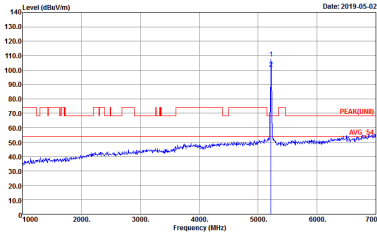
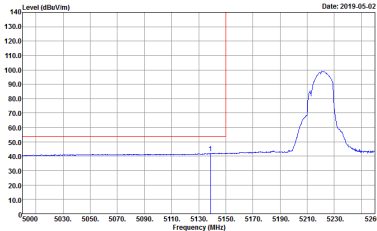


Band 1 - 5150~5250MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

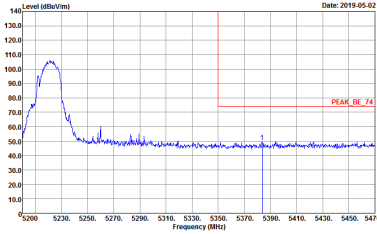
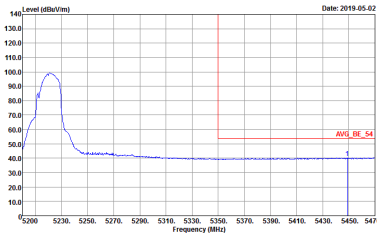
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank

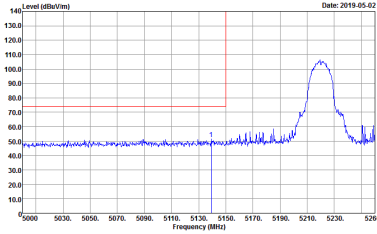
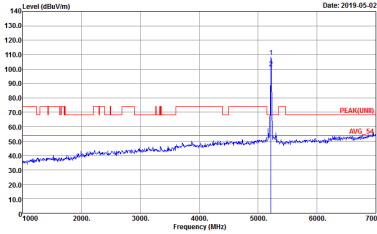
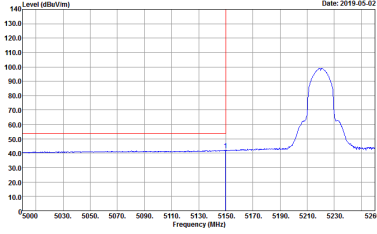


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

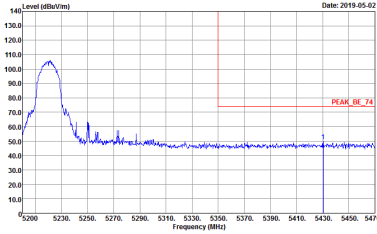
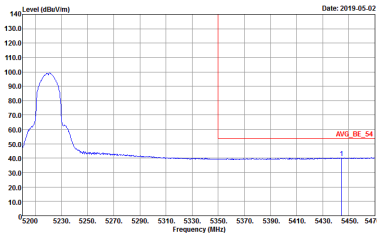
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



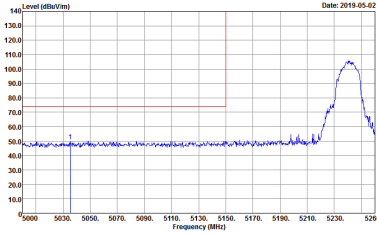
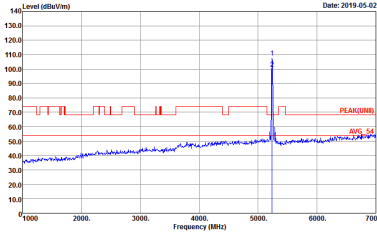
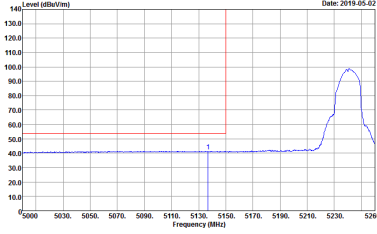
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

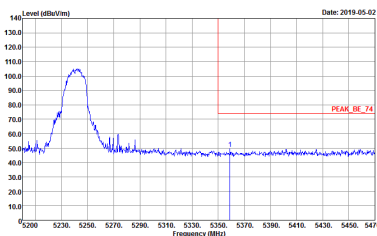
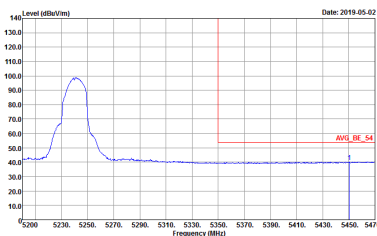


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

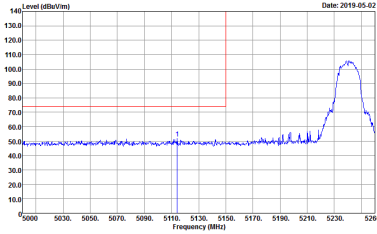
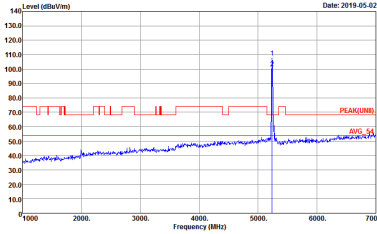
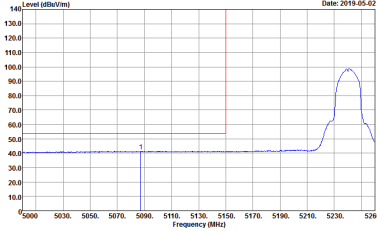


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

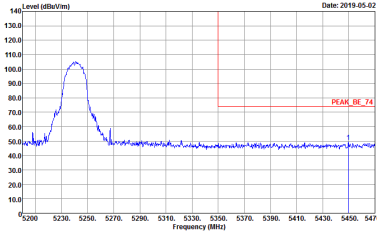
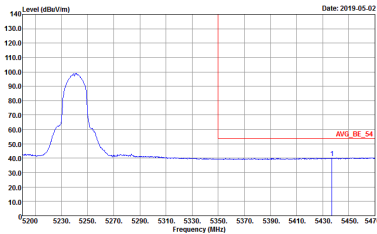


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



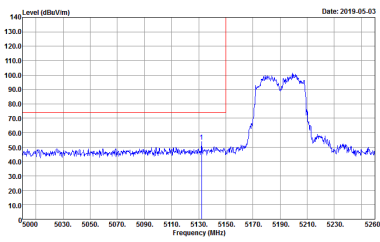
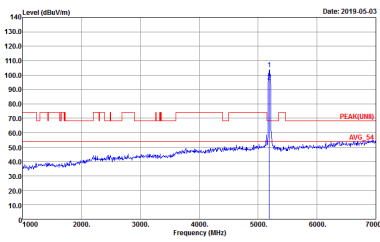
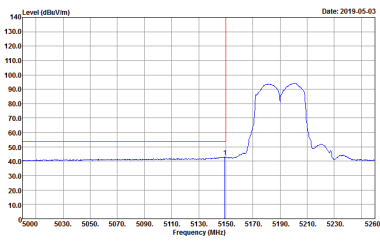
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:10000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



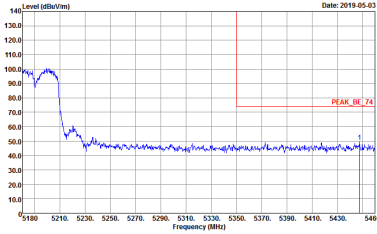
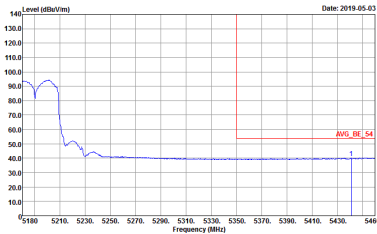
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

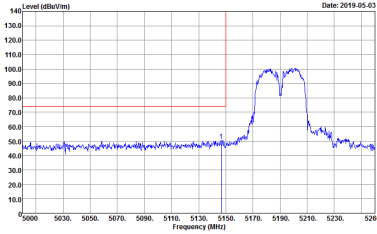
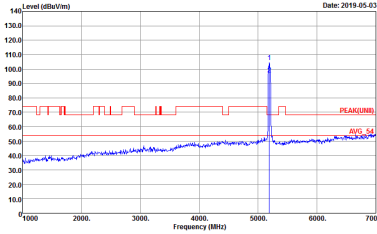
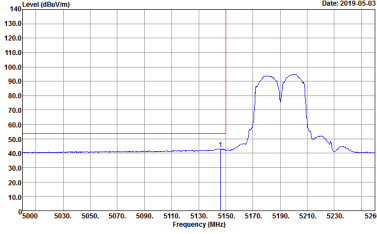


Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

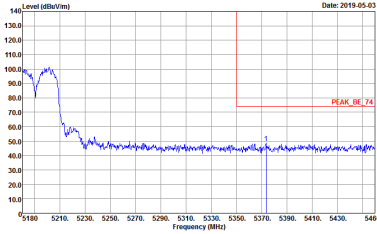
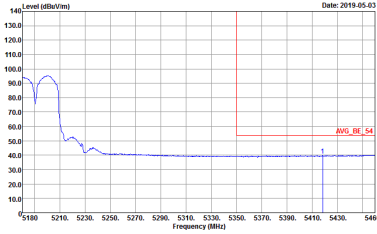
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank

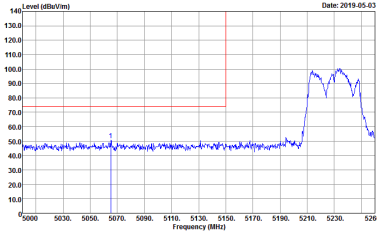
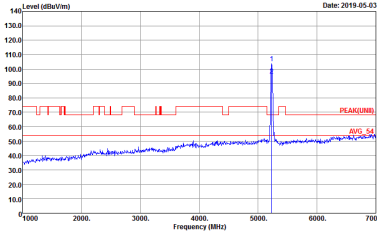
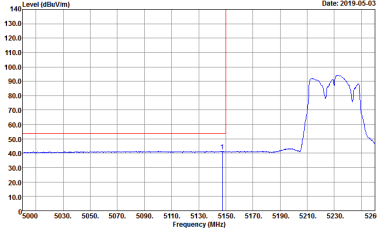


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

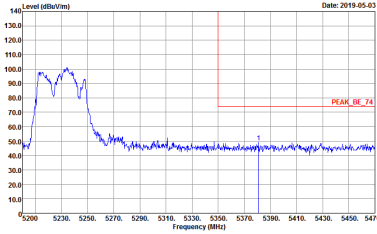
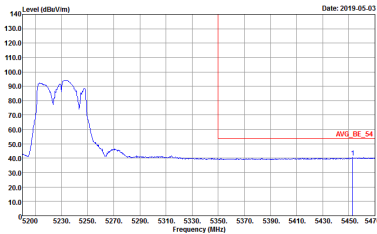
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



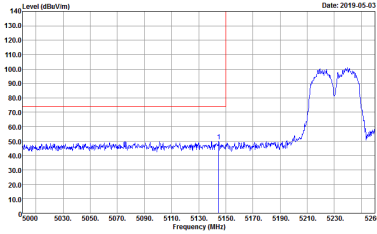
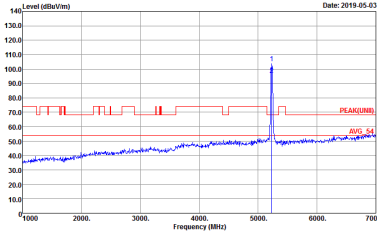
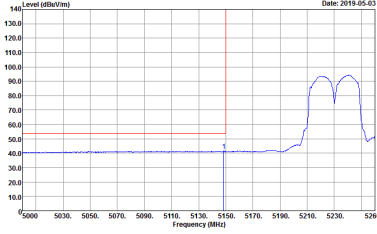
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

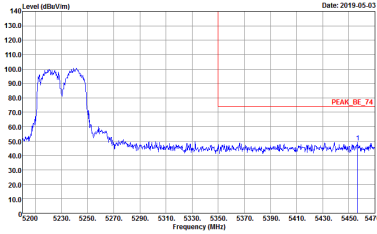
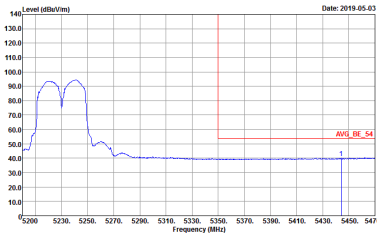


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



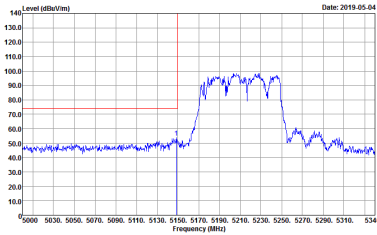
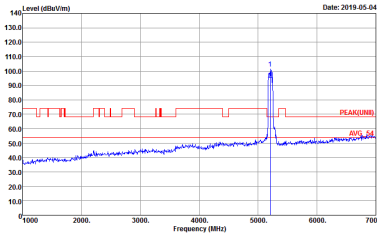
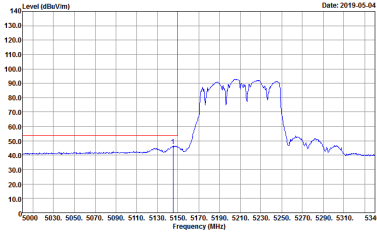
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



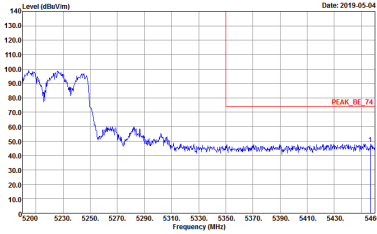
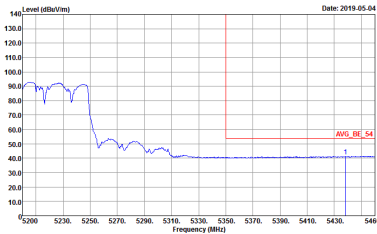
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



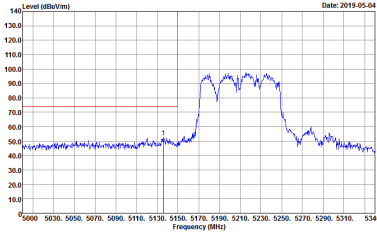
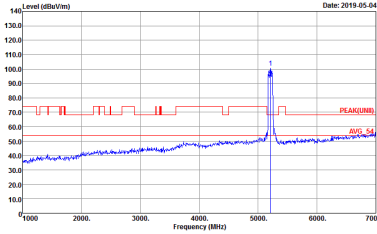
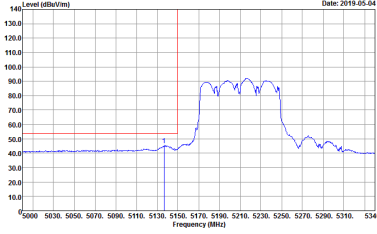
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	Left blank

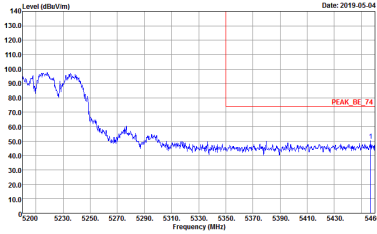
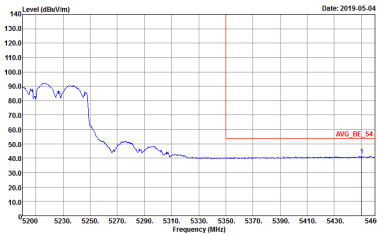


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



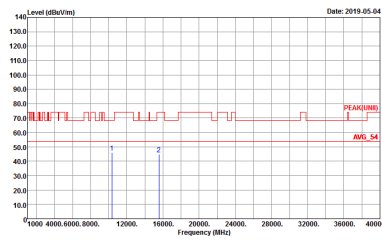
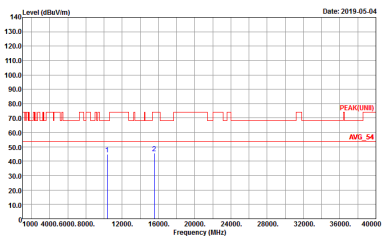
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



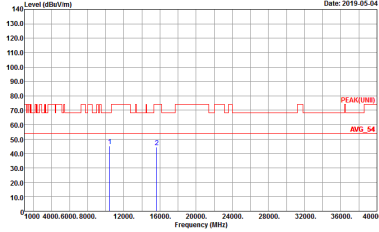
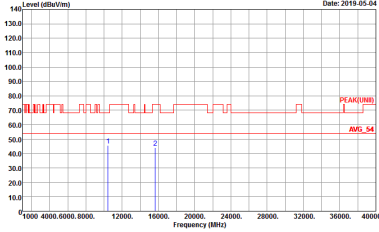
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



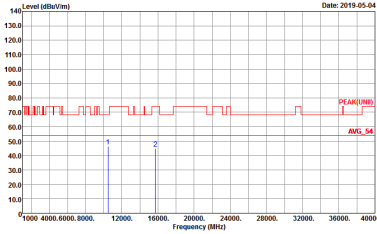
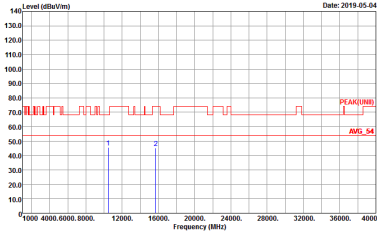
Band 1 - 5150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02



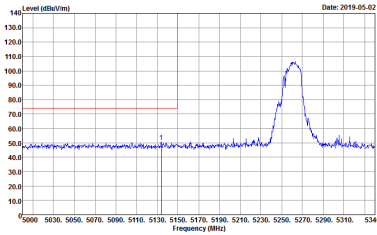
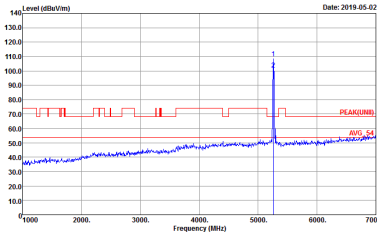
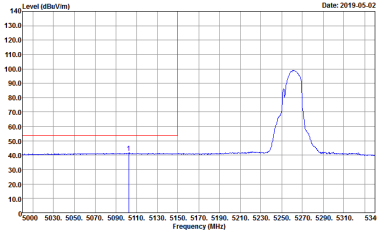
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL Detector : Peak Project : BN0701-02



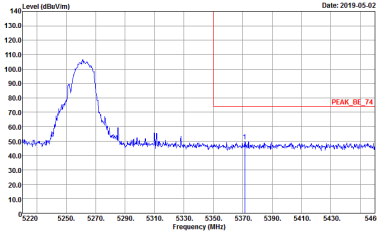
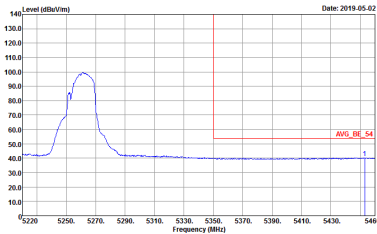
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL Detector : Peak Project : BN0701-02



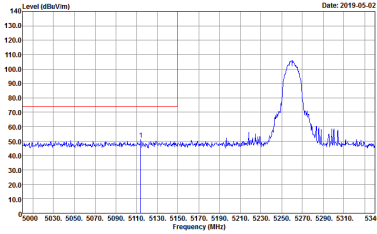
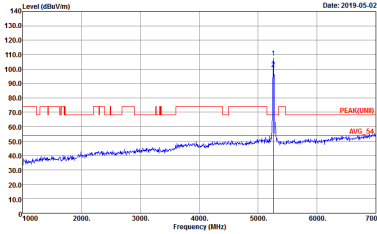
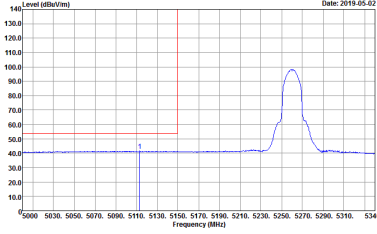
Band 2 - 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank

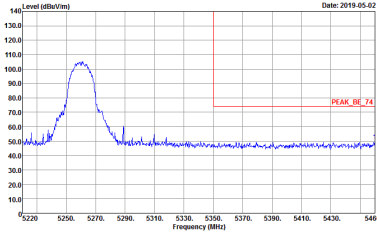
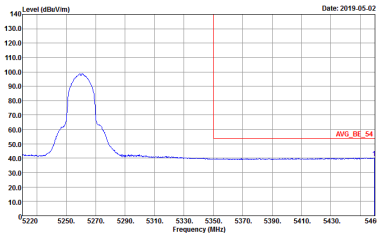


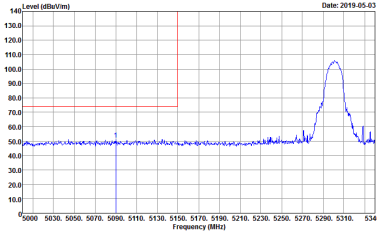
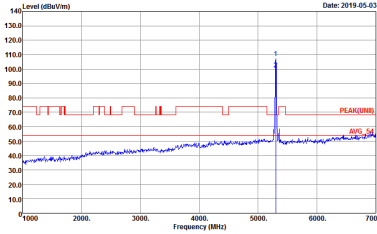
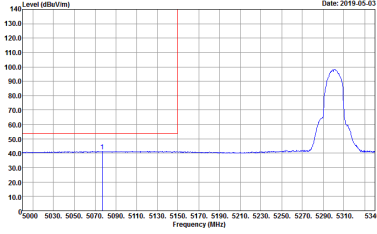
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



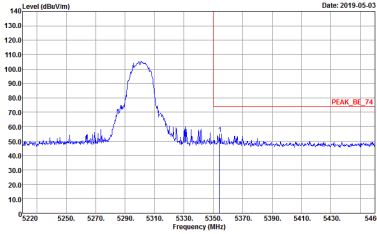
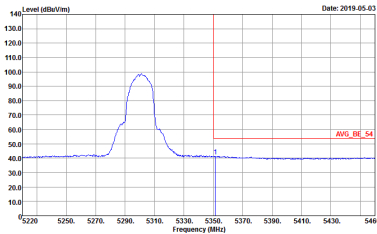
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

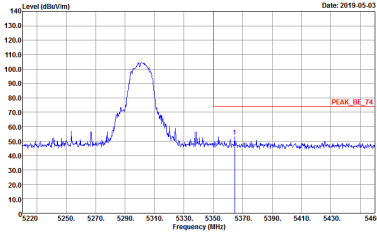
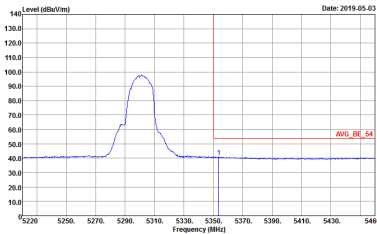


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

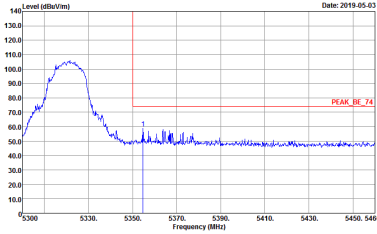
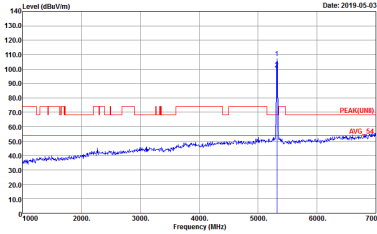
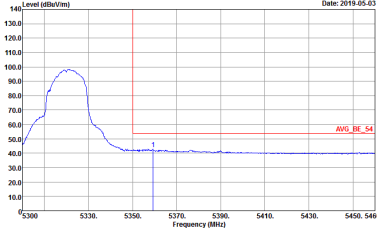


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

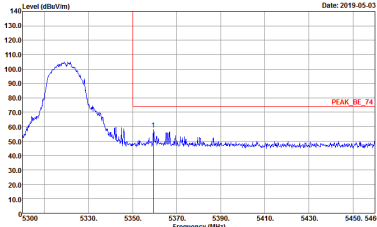
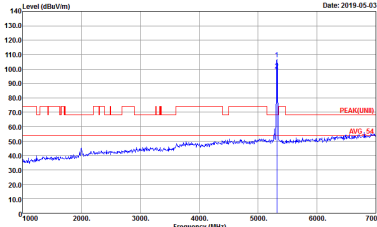
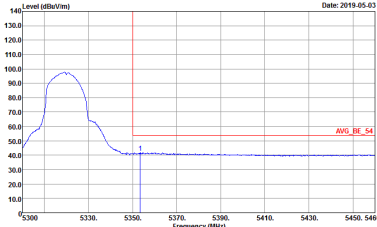


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



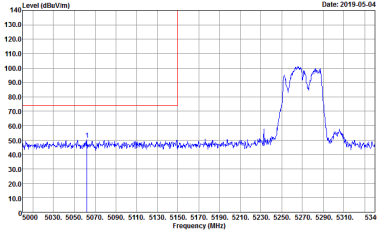
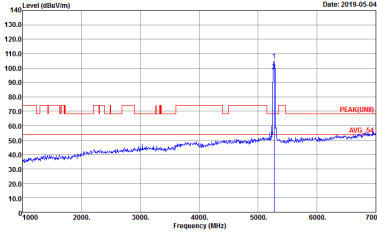
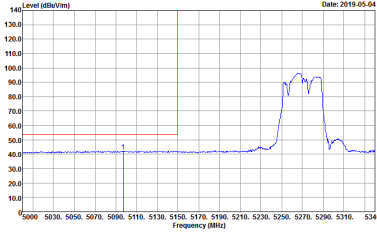
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



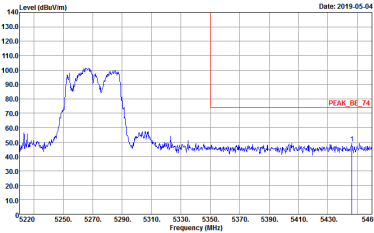
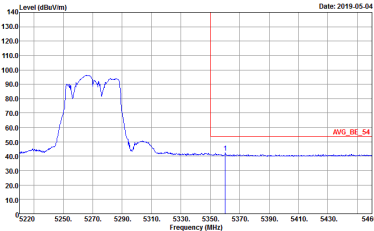
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(FUND) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



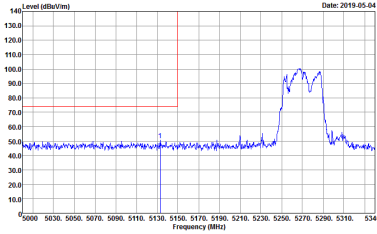
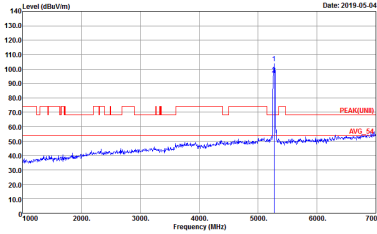
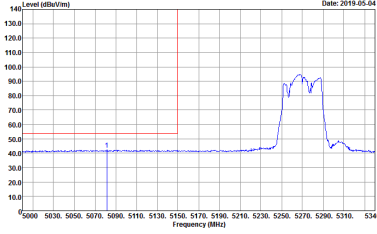
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-1HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-1HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-1HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 8N0701-02	Left blank

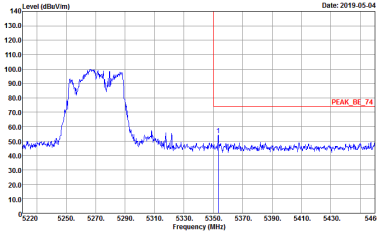
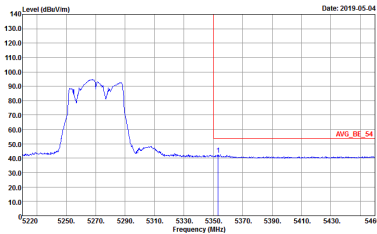


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

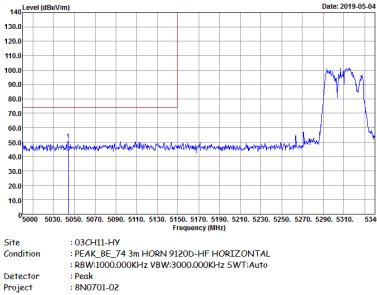
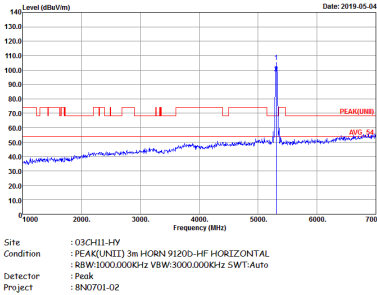
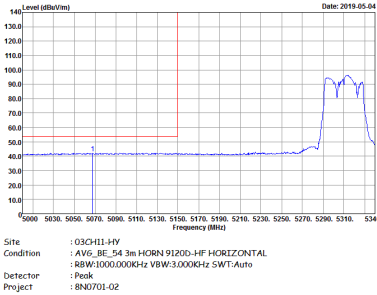


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

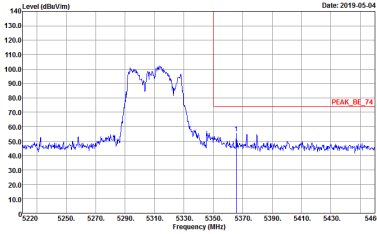
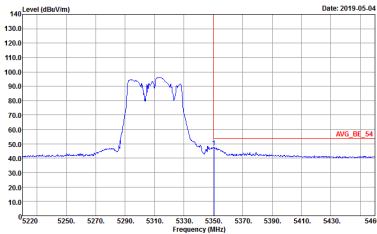


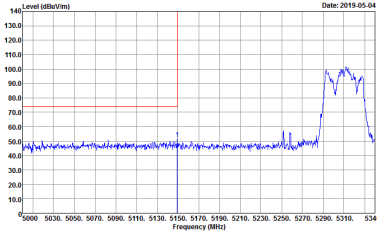
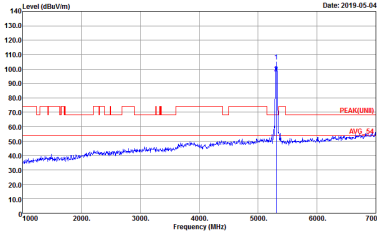
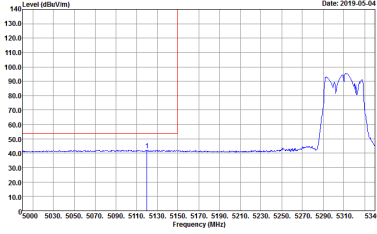
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Vertical	Vertical
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



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



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

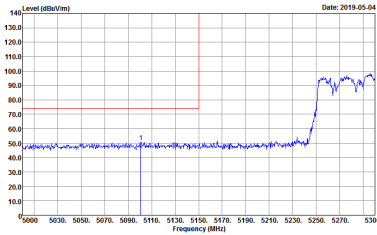
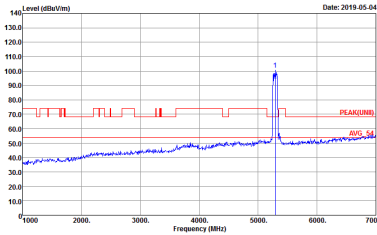
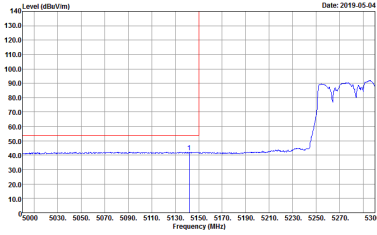
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



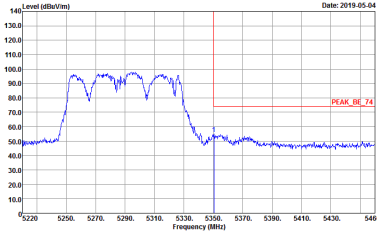
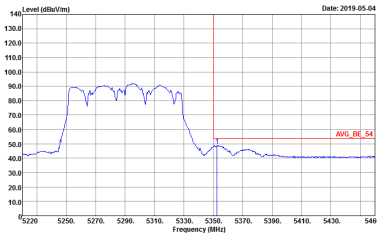
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank

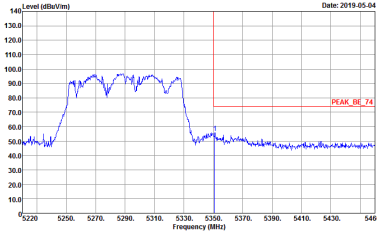
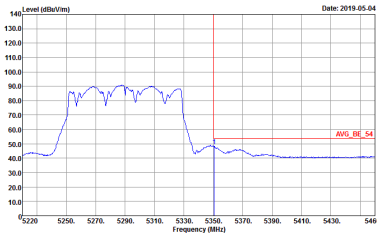


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



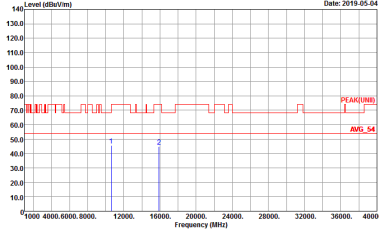
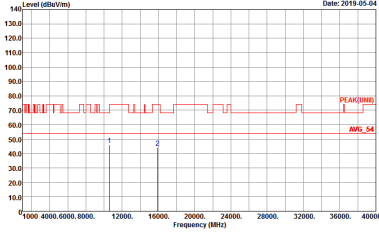
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HV Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank
Avg.	 Site : 03CH11-HV Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



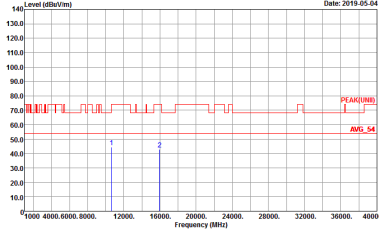
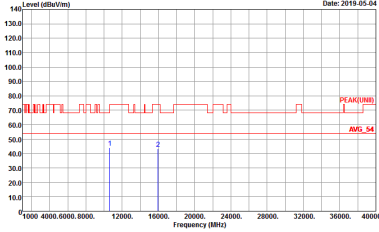
Band 2 - 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02



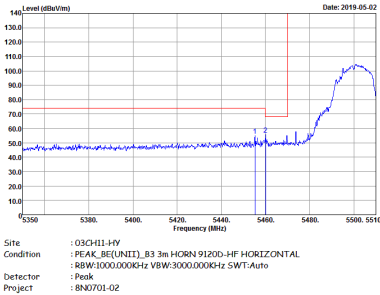
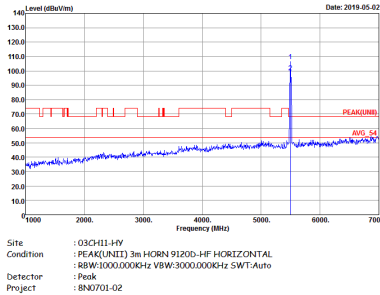
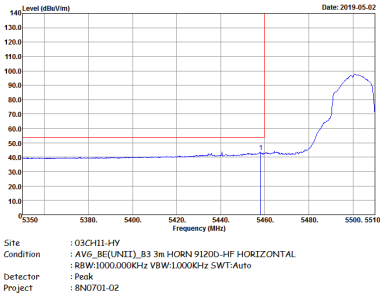
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 91200-HF VERTICAL Detector : Peak Project : BN0701-02



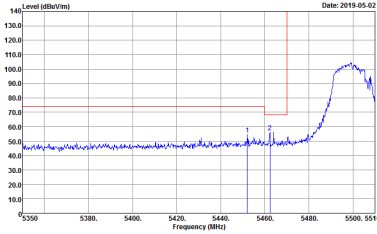
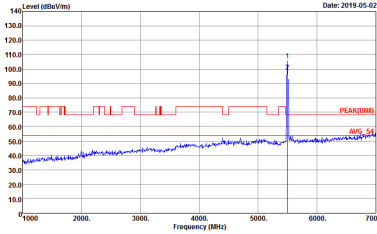
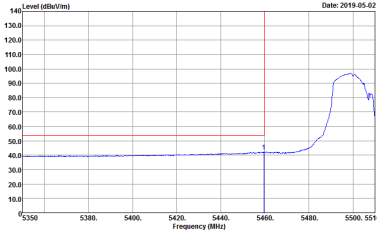
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UWB) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UWB) 3m HORN 91200-HF VERTICAL Detector : Peak Project : BN0701-02



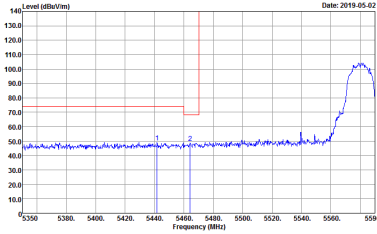
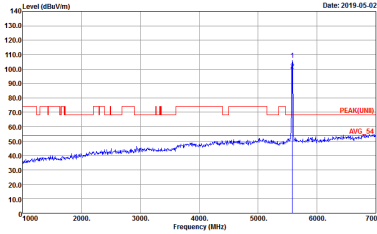
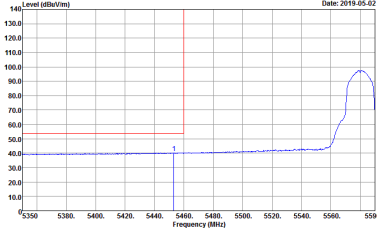
Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT1) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT1)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank

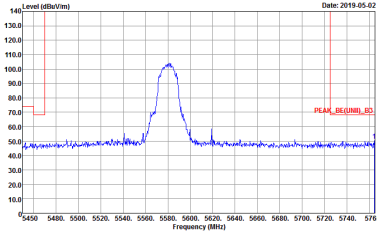


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

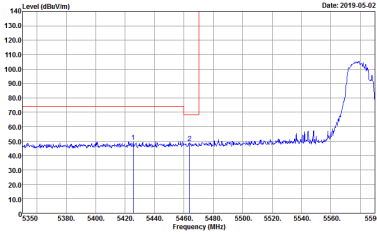
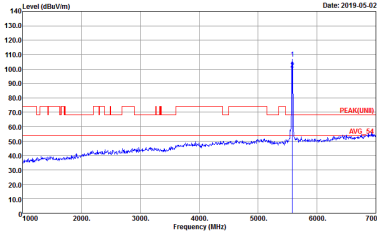
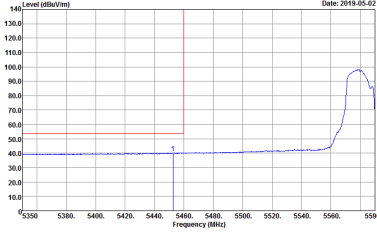


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

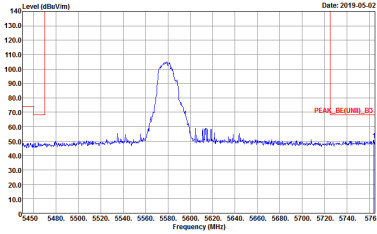


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

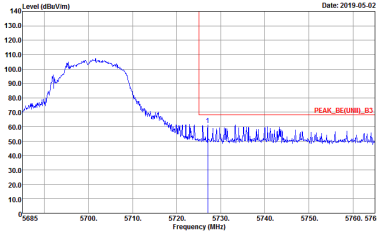
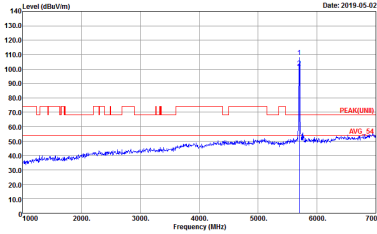


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



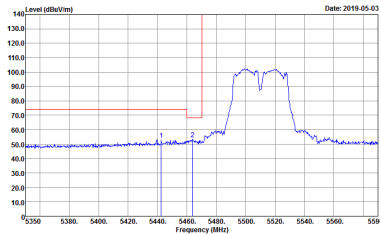
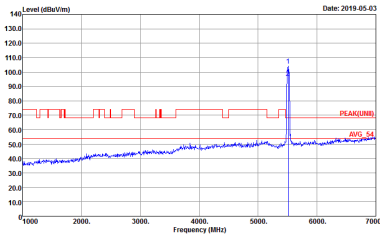
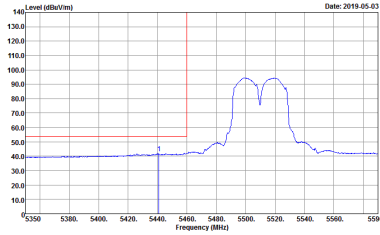
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE(UBI)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Site : 03CH11-HY Condition : PEAK_F(UBI)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02



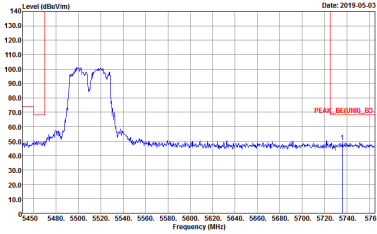
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.	 Site : 03CH11-HY Condition : PEAK_BE(UBI)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK_F(UBI)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02



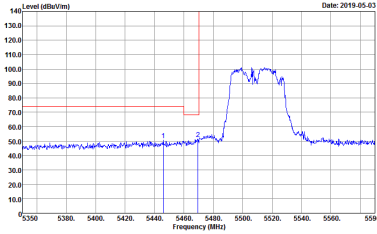
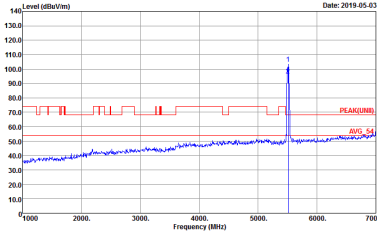
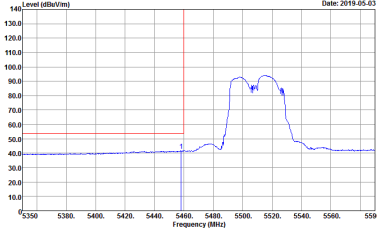
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : BN0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : BN0701-02	Left blank

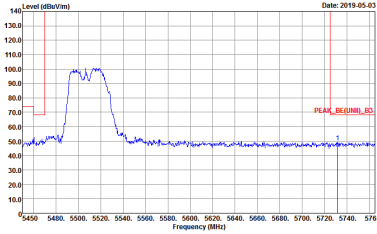


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

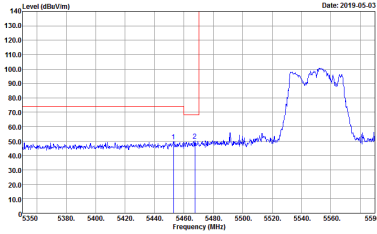
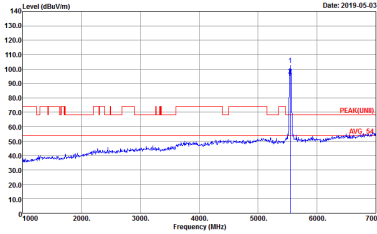
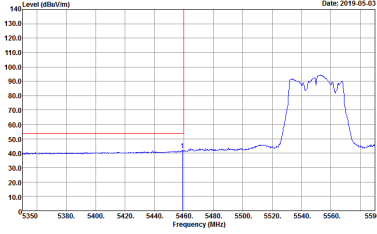


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

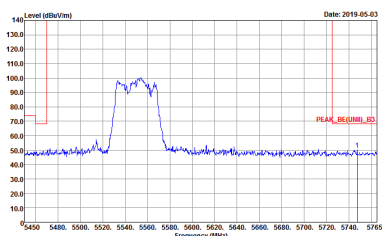


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

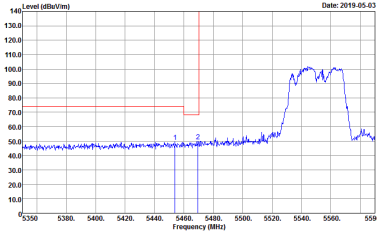
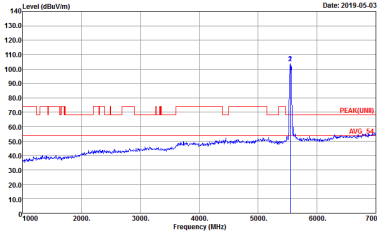
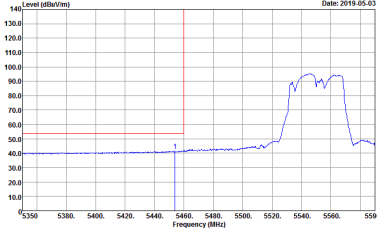


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

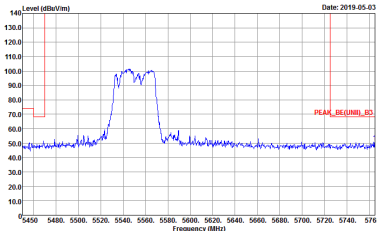


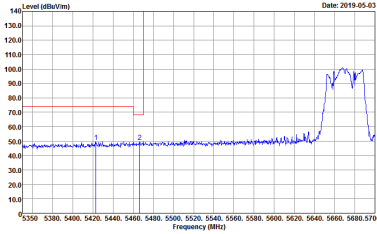
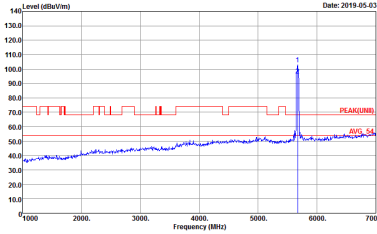
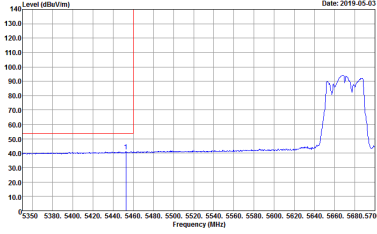
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



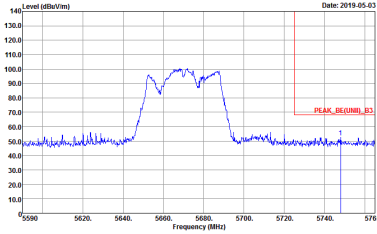
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

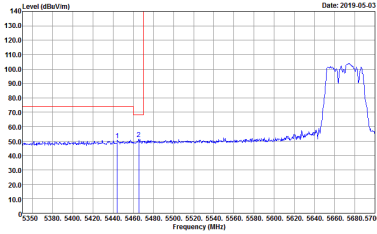
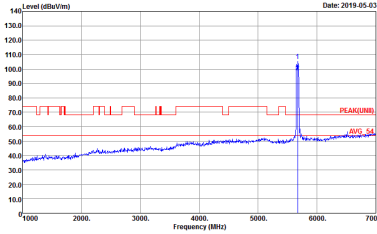
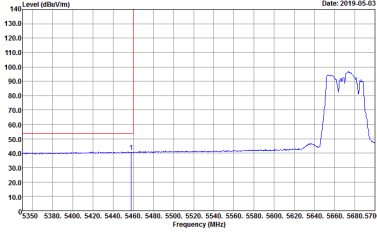


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

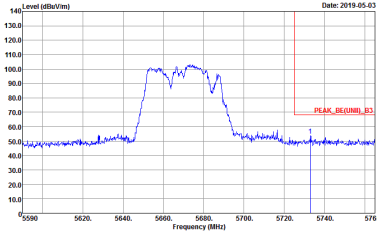
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

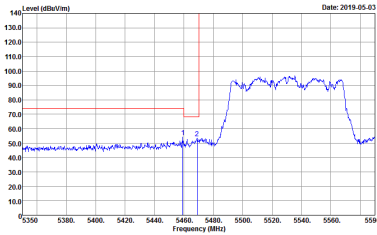
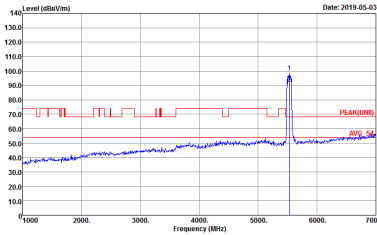
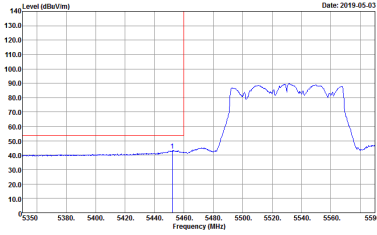
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank



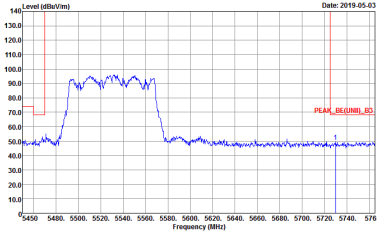
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



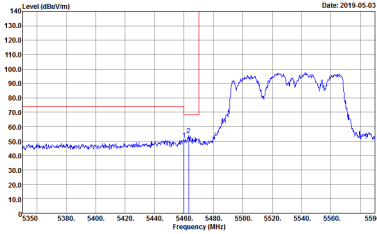
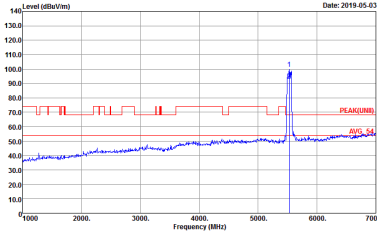
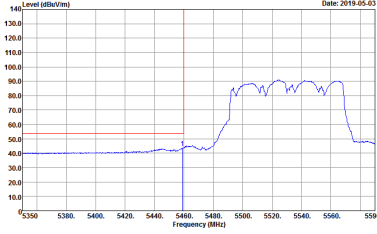
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : BN0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Project : Peak : BN0701-02	Left blank

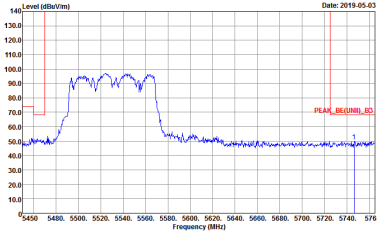


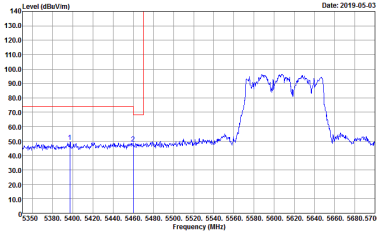
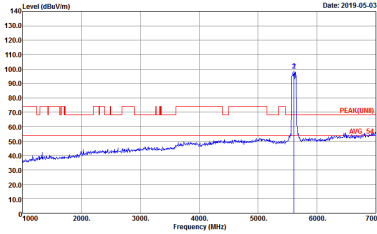
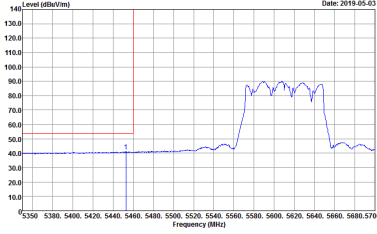
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



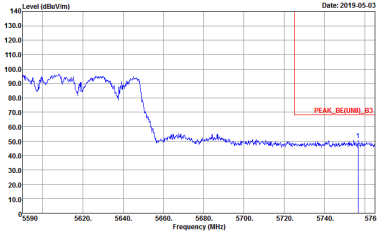
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 8N0701-02	Left blank

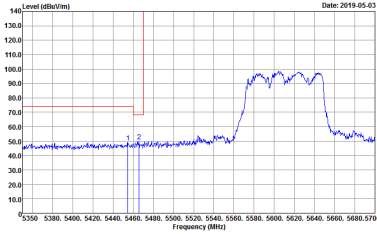
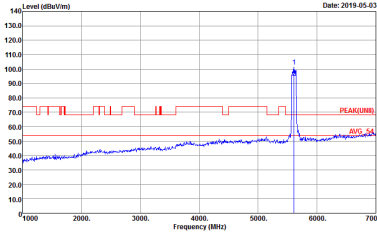
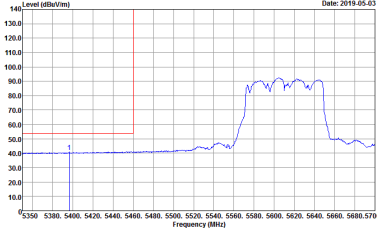


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

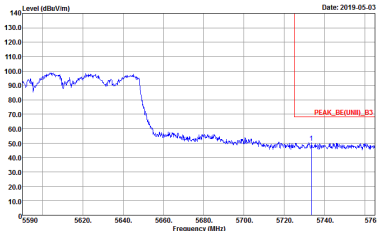
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank

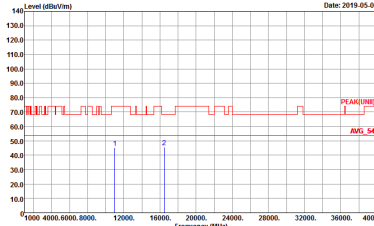
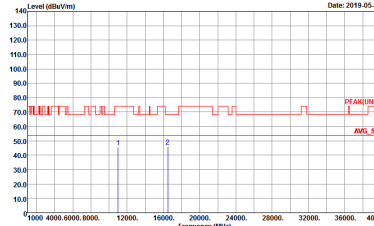
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02
Avg.	 Site : 03CH11-HY Condition : AVG_BE(UNIT)_B3 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



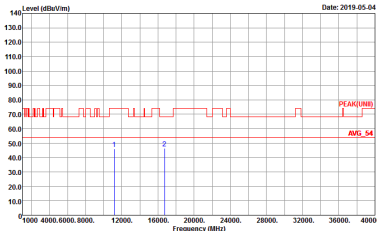
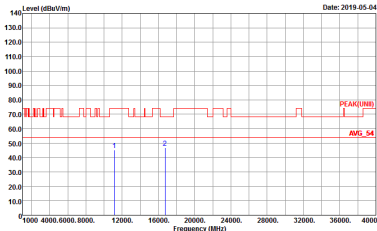
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 09CH11-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : BN0701-02	Left blank



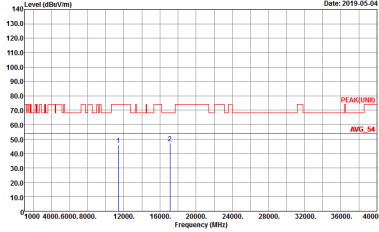
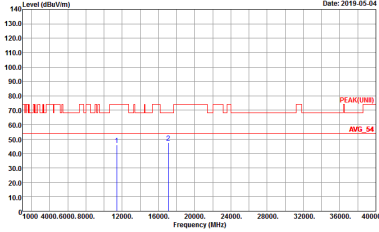
Band 3 - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02



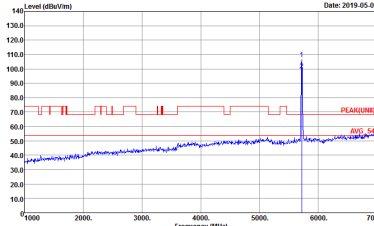
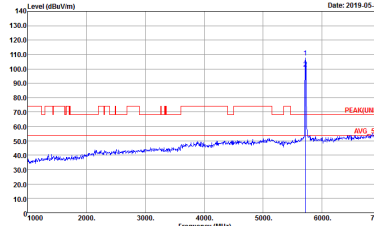
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UWB) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UWB) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 8N0701-02



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNED) 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-HY Condition : PEAK(UNED) 3m HORN 91200-HF VERTICAL Detector : Peak Project : 8N0701-02

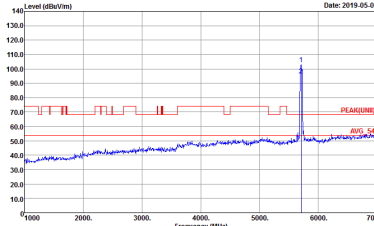
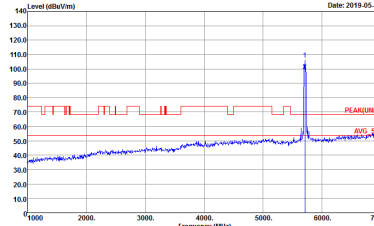


Band 3 - Straddle Channel
WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4-FY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-4-FY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02

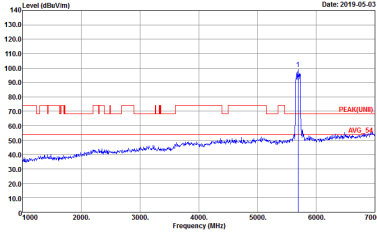
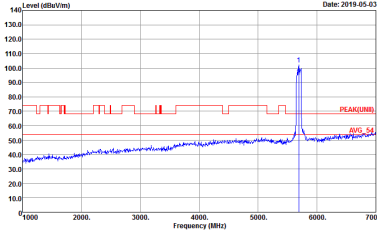


Band 3 - Straddle Channel
WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-4-FY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-4-FY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02



Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Fundamental @ 3m)

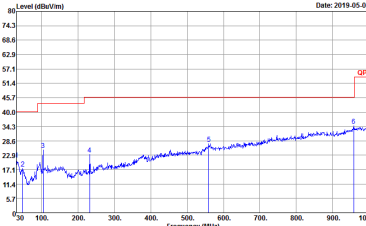
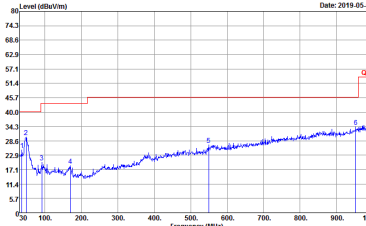
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : BN0701-02	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : BN0701-02



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

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH11-HY Condition : PEAK(UNEE) 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 8N0701-02	Site : 03CH11-HY Condition : PEAK(UNEE) 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 8N0701-02

Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

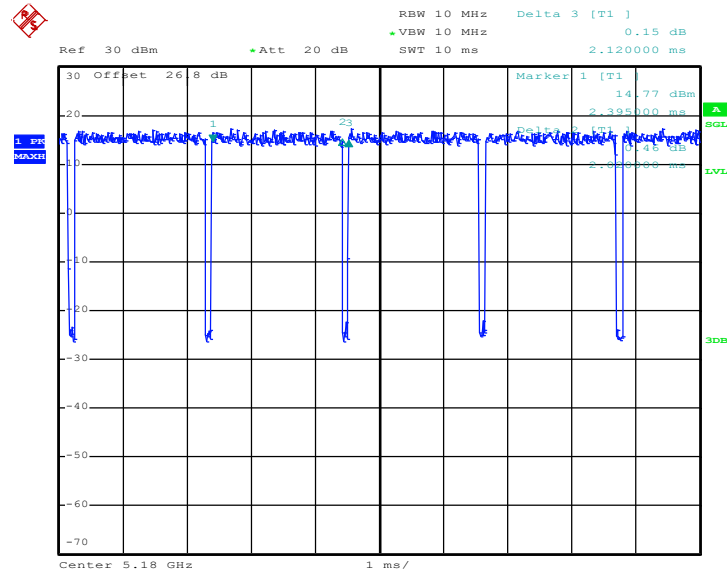
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH11-4-FY Condition : QP 3m BT-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 8N0701-02	 Site : 03CH11-4-FY Condition : QP 3m BT-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 8N0701-02

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant 1	95.28	2020	0.50	1kHz	0.21
1+2	802.11a for Ant 2	94.37	2010	0.50	1kHz	0.25
1+2	5GHz 802.11n HT20 for Ant 1	94.90	1860	0.54	1kHz	0.23
1+2	5GHz 802.11n HT20 for Ant 2	94.24	1880	0.53	1kHz	0.26
1+2	5GHz 802.11n HT40 for Ant 1	89.86	930	1.08	3kHz	0.46
1+2	5GHz 802.11n HT40 for Ant 2	89.42	930	1.08	3kHz	0.49
1+2	5GHz 802.11ac VHT20 for Ant 1	93.52	1875	0.53	1kHz	0.29
1+2	5GHz 802.11ac VHT20 for Ant 2	94.22	1875	0.53	1kHz	0.26
1+2	5GHz 802.11ac VHT40 for Ant 1	89.95	940	1.06	3kHz	0.46
1+2	5GHz 802.11ac VHT40 for Ant 2	91.26	940	1.06	3kHz	0.40
1+2	5GHz 802.11ac VHT80 for Ant 1	89.16	740	1.35	3kHz	0.50
1+2	5GHz 802.11ac VHT80 for Ant 2	87.95	730	1.37	3kHz	0.56

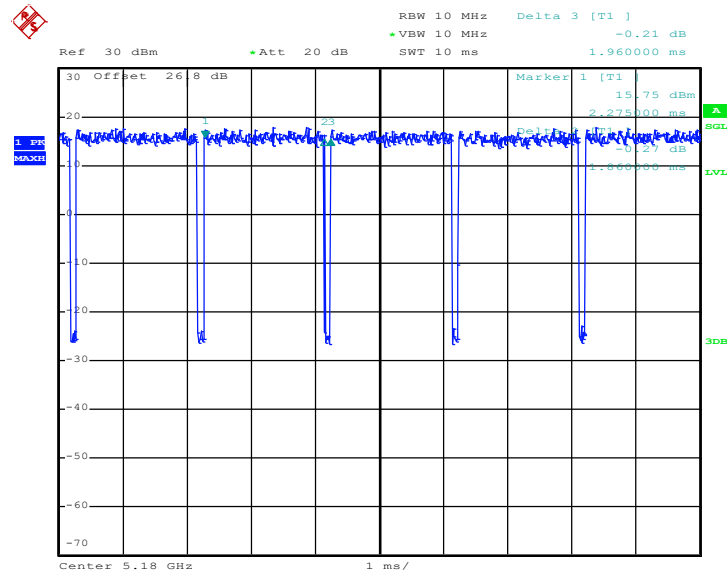
MIMO <Ant. 1>

802.11a

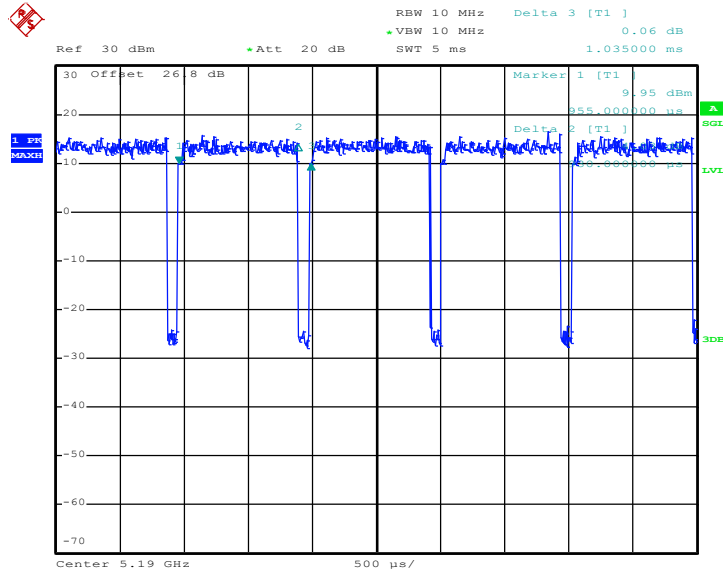


Date: 24.APR.2019 06:13:32

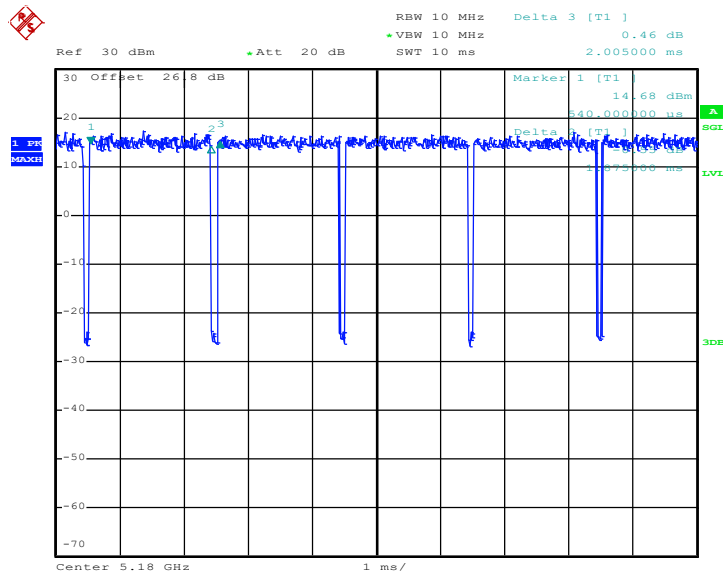
802.11n HT20



Date: 24.APR.2019 06:16:32

802.11n HT40


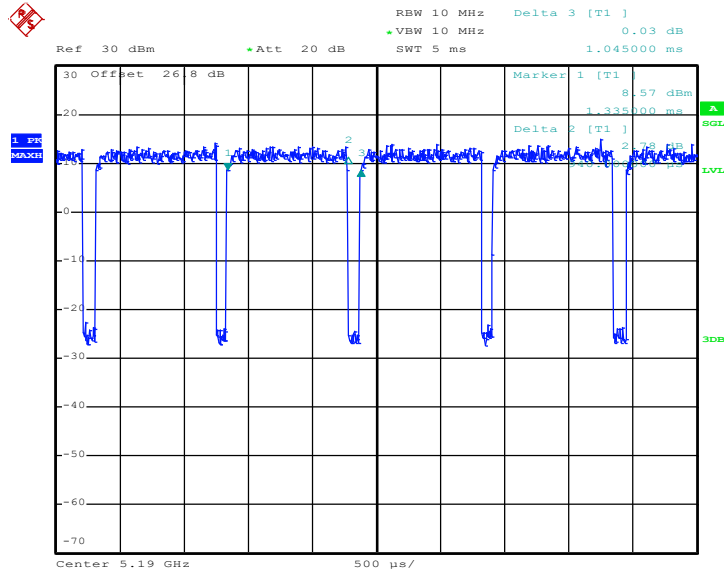
Date: 24.APR.2019 06:18:50

802.11ac VHT20


Date: 24.APR.2019 06:21:29

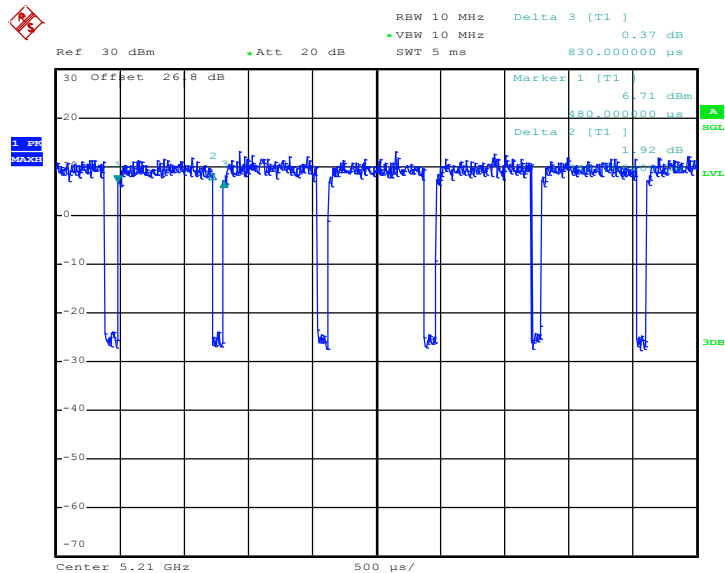


802.11ac VHT40



Date: 24.APR.2019 06:24:02

802.11ac VHT80

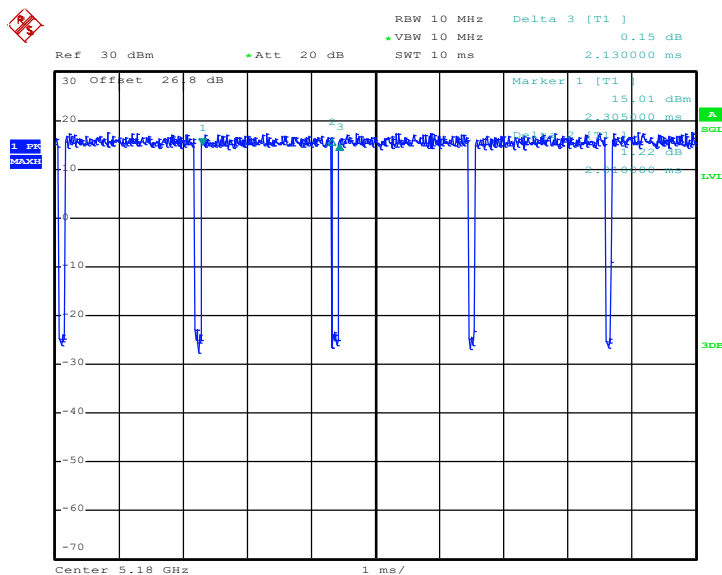


Date: 24.APR.2019 06:11:21



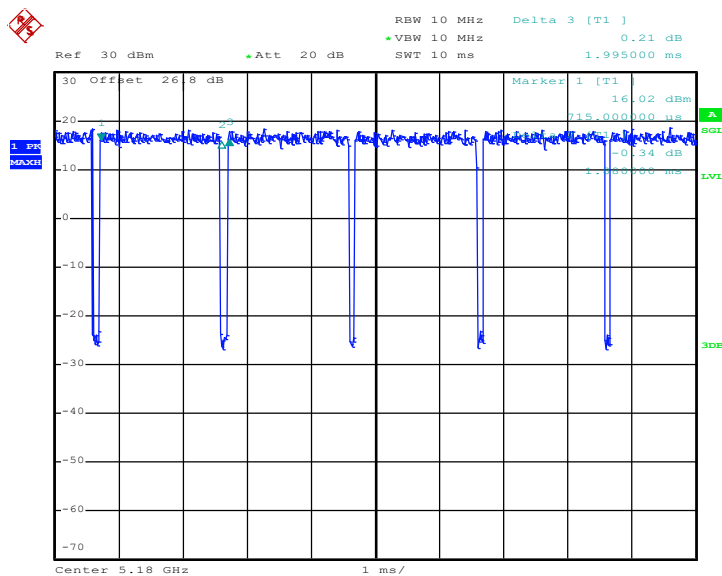
MIMO <Ant. 2>

802.11a



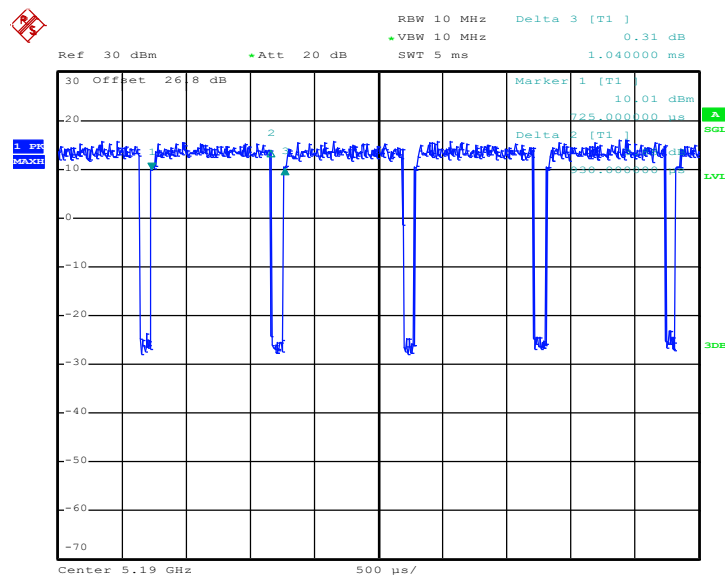
Date: 24.APR.2019 06:14:38

802.11n HT20



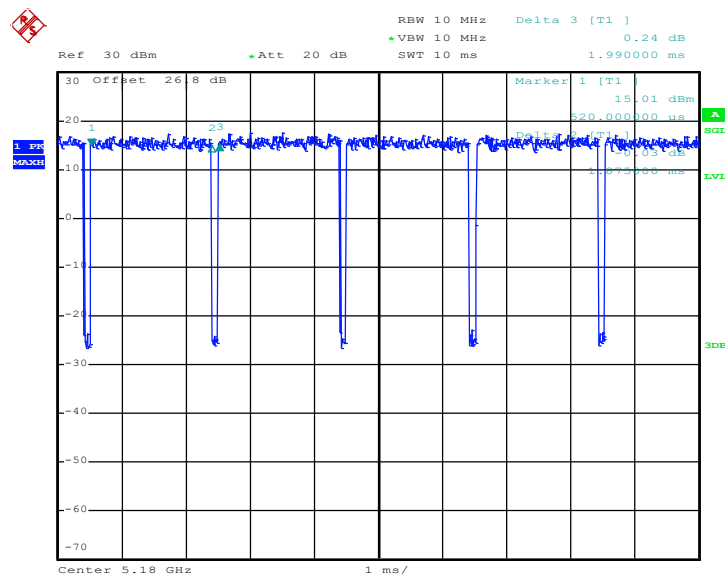
Date: 24.APR.2019 06:17:17

802.11n HT40



Date: 24.APR.2019 06:19:32

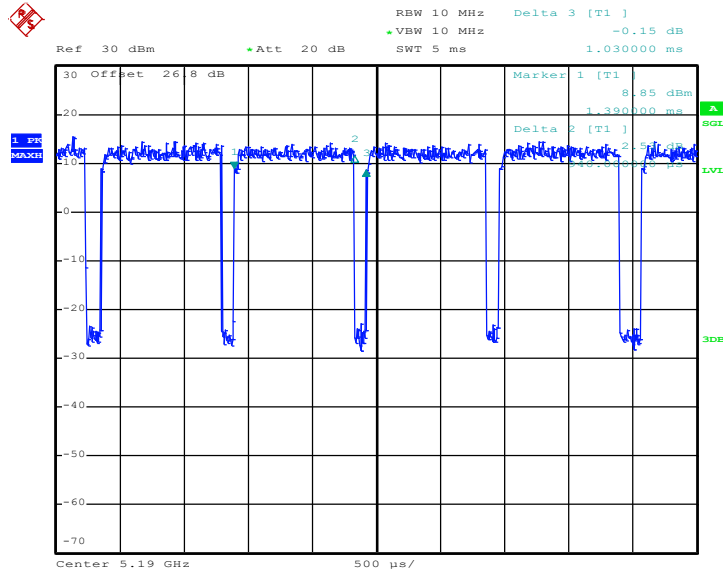
802.11ac VHT20



Date: 24.APR.2019 06:22:17

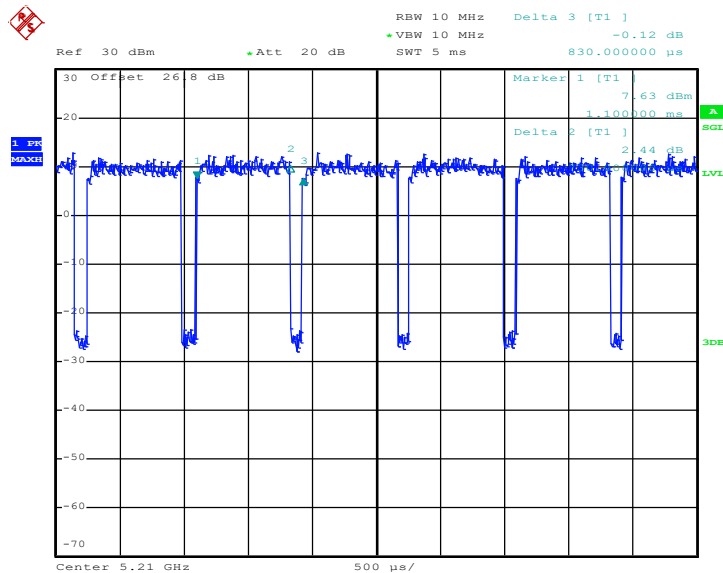


802.11ac VHT40



Date: 24.APR.2019 06:24:39

802.11ac VHT80



Date: 24.APR.2019 06:11:58