FCC RF Test Report

APPLICANT	:	Evergreen Huckleberry LLC
EQUIPMENT	:	Digital Media Receiver
MODEL NAME	:	R85SD6
FCC ID	:	2A8FC-8523
STANDARD	:	FCC Part 15 Subpart E § 15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Mar. 21, 2023 ~ May 18, 2023

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2N2209-01E	Rev. 01	Initial issue of report	May 19, 2023
FR2N2209-01E	Rev. 02	Update Section 2.2 AC Conducted Emission test mode on Page 10	Aug. 31, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only
3.1	15.403(i)	6dB Bandwidth for straddle channels	> 500kHz	Pass
3.2	15.407(a)	Maximum Conducted Output Power	⩽ 24 dBm	Pass
3.3	15.407(a)	Power Spectral Density	⩽ 11 dBm/MHz	Pass
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass
3.5	15.207	AC Conducted Emission	15.207(a)	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass
3.7	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	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.

1 General Description

1.1 Applicant

Evergreen Huckleberry LLC
100 S. Ashley Drive Suite 600 Tampa, FL 33602

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	R85SD6
FCC ID	2A8FC-8523
SN Code	Conducted: G0B2MM0330920044 Conduction: G0B2MM0330870012 Radiation: G0B2MM033087000K DFS: P0B35Q0230740554

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

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	**MIMO <Ant. 0+1>** **<5180 MHz ~ 5240 MHz>** 802.11a : 18.44 dBm / 0.0698 W 802.11n HT20 : 18.32 dBm / 0.0679 W 802.11n HT40 : 20.32 dBm / 0.1076 W 802.11ac VHT20 : 18.28 dBm / 0.0673 W 802.11ac VHT40 : 20.27 dBm / 0.1064 W 802.11ac VHT80 : 16.52 dBm / 0.0449 W **<5260 MHz ~ 5320 MHz>** 802.11a : 18.41 dBm / 0.0693 W 802.11n HT20 : 18.57 dBm / 0.0719 W 802.11n HT40 : 20.48 dBm / 0.1117 W 802.11ac VHT20 : 18.52 dBm / 0.0711 W 802.11ac VHT40 : 20.43 dBm / 0.1104 W 802.11ac VHT80 : 17.60 dBm / 0.0575 W **<5500 MHz ~ 5720 MHz >** 802.11a : 18.46 dBm / 0.0701 W 802.11n HT20 : 18.38 dBm / 0.0689 W 802.11n HT40 : 19.80 dBm / 0.0955 W 802.11ac VHT20 : 18.32 dBm / 0.0679 W 802.11ac VHT40 : 19.76 dBm / 0.0946 W 802.11ac VHT80 : 19.47 dBm / 0.0885 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 16.78 MHz 802.11n HT20 : 17.73 MHz

	802.11n HT40 : 36.46 MHz 802.11ac VHT80 : 75.28 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 16.73 MHz 802.11n HT20 : 17.73 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 75.28 MHz **<5500 MHz ~ 5720 MHz >** 802.11a : 16.78 MHz 802.11n HT20 : 17.78 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 75.40 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** <Ant. 0> : ILA Antenna with gain 6.0 dBi <Ant. 1> : ILA Antenna with gain 6.0 dBi **<5260 MHz ~ 5320 MHz>** <Ant. 0> : ILA Antenna with gain 6.0 dBi <Ant. 1> : ILA Antenna with gain 6.0 dBi **<5500 MHz ~ 5720 MHz>** <Ant. 0> : ILA Antenna with gain 6.0 dBi <Ant. 1> : ILA Antenna with gain 6.0 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note:

1. Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/HT40 by referring to their maximum conducted power.
2. The device supports CDD MIMO mode only.

1.4 Modification of EUT

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

1.5 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-SZ TH01-SZ DFS01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b
3.	DFS01-SZ	Sporton	DFS & Adaptivity Test Tools	1.0

1.7 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- 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)
5180-5240 MHz 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)
5260-5320 MHz 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)
5500- 5720 MHz 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 VHT80	MCS0

RSE Co-location
Zigbee 250Kbps CH25 Tx + Bluetooth LE 2Mbps CH39 Tx + 802.11ac VHT80 CH58 Tx

Test Cases	
AC Conducted Emission	Mode 1 : Zigbee Link(Connet to Light bulb) + Bluetooth Link + WLAN Link(5G) + With Charging Stand + AC Adapter

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter.
2. RSE Co-location modes are combination from the worst WLAN TX mode and BT Link mode.

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500-5720 MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

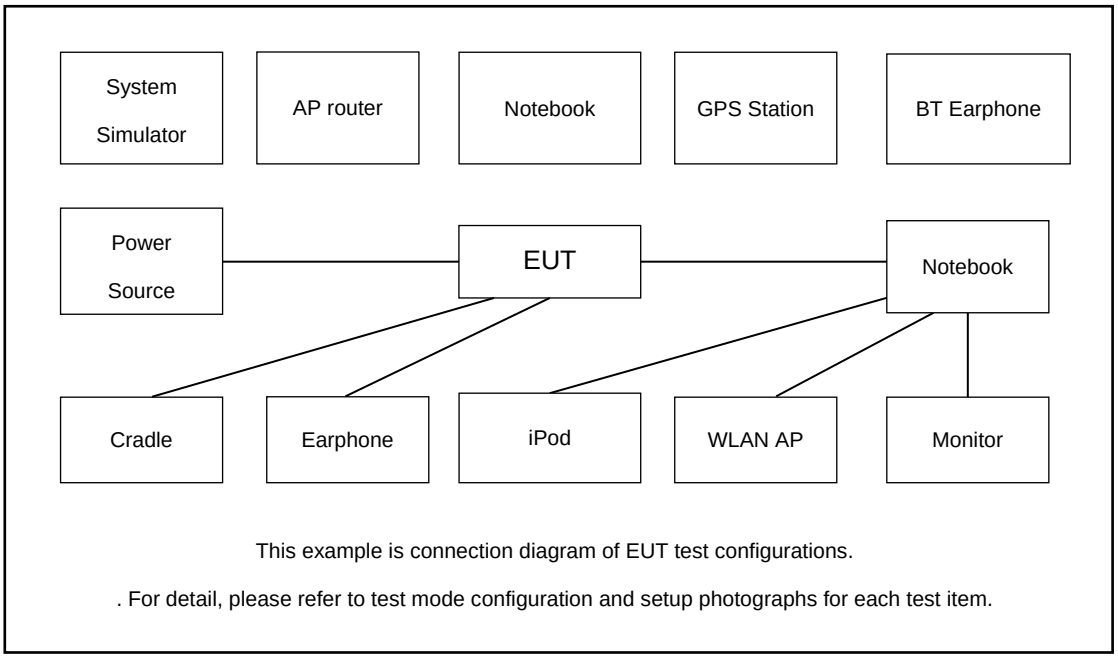
Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500-5720 MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500-5720 MHz
		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. #		U-NII-1 : 5180-5240 MHz	U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500-5720 MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

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.	BT Speaker	JBL	Charge3	N/A	N/A	N/A
2.	WLAN AP	TP_Link	DBWRT01R	N/A	N/A	N/A
3.	Light bulb	Philips	097	N/A	N/A	N/A
4.	Stand	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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 2.8 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 2.8 + 10 = 12.8 (dB)

3 Test Result

3.1 6dB & 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB & 26dB & 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

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

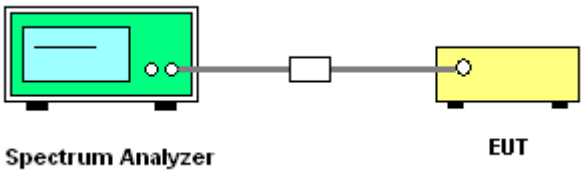
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

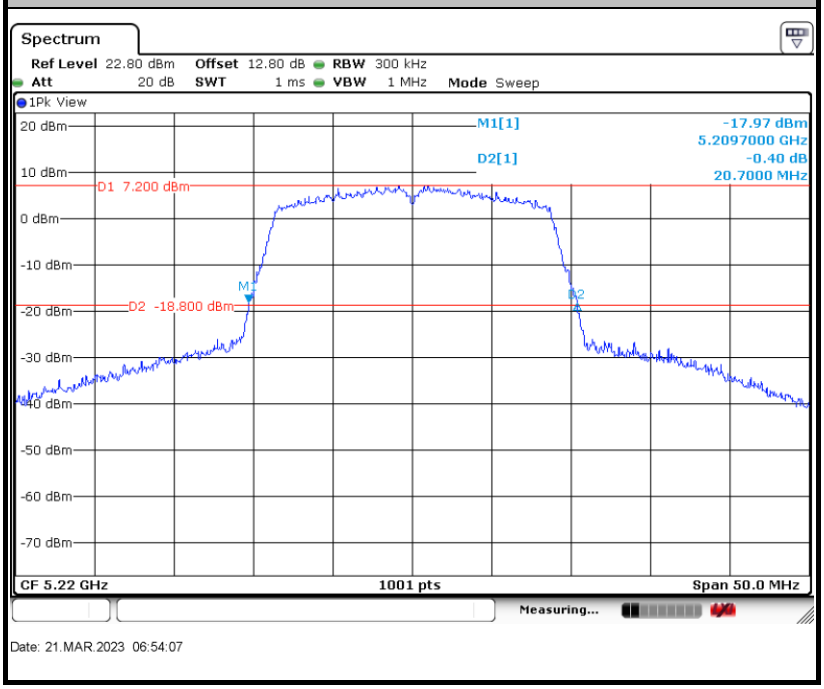
3.1.4 Test Setup



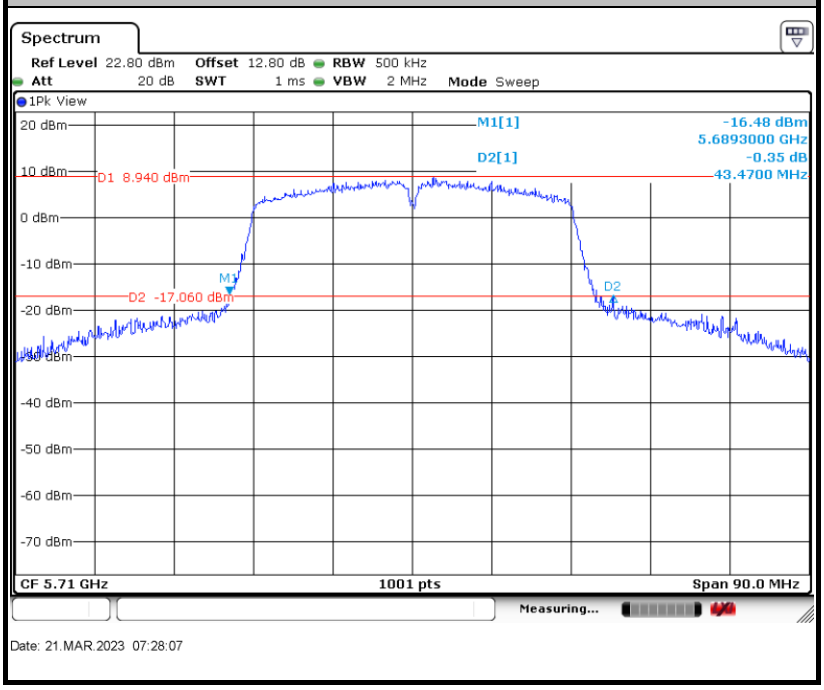
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

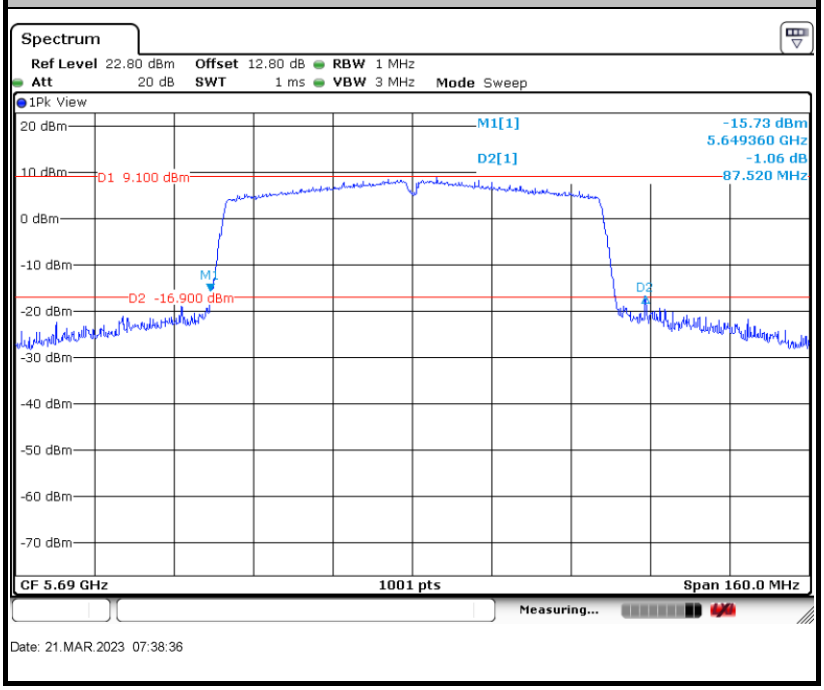
Maximum 26dB Bandwidth for 20M BW



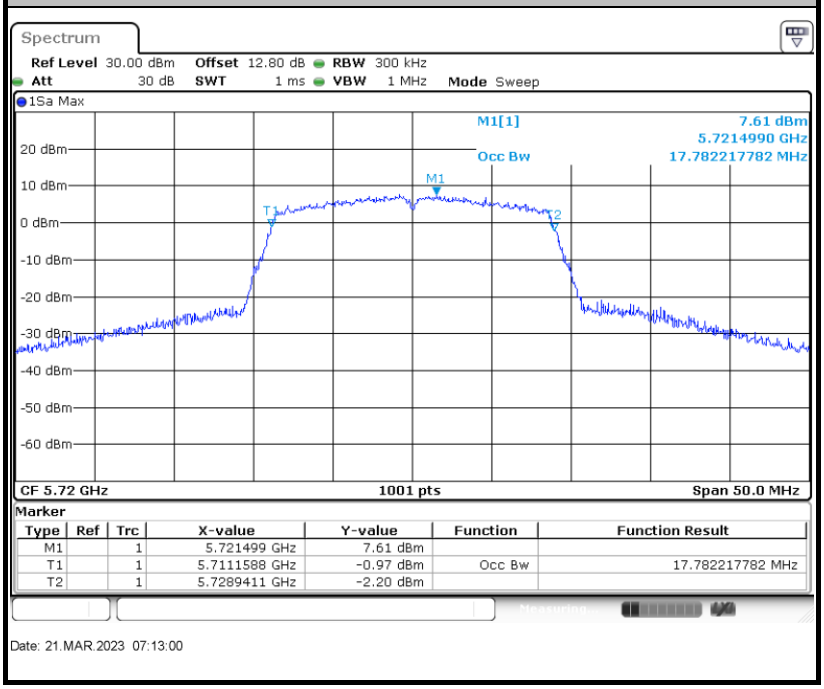
Maximum 26dB Bandwidth for 40M BW



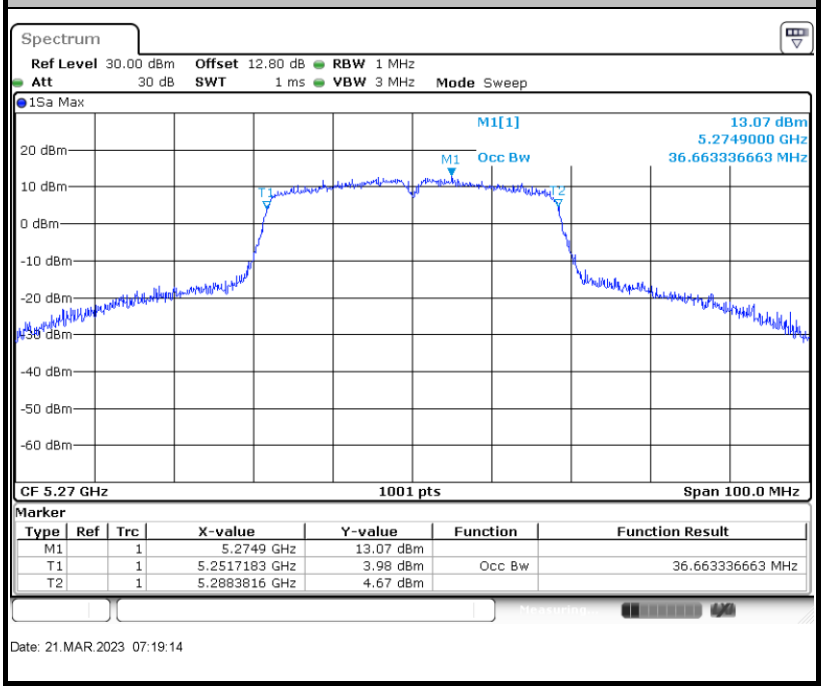
Maximum 26dB Bandwidth for 80M BW



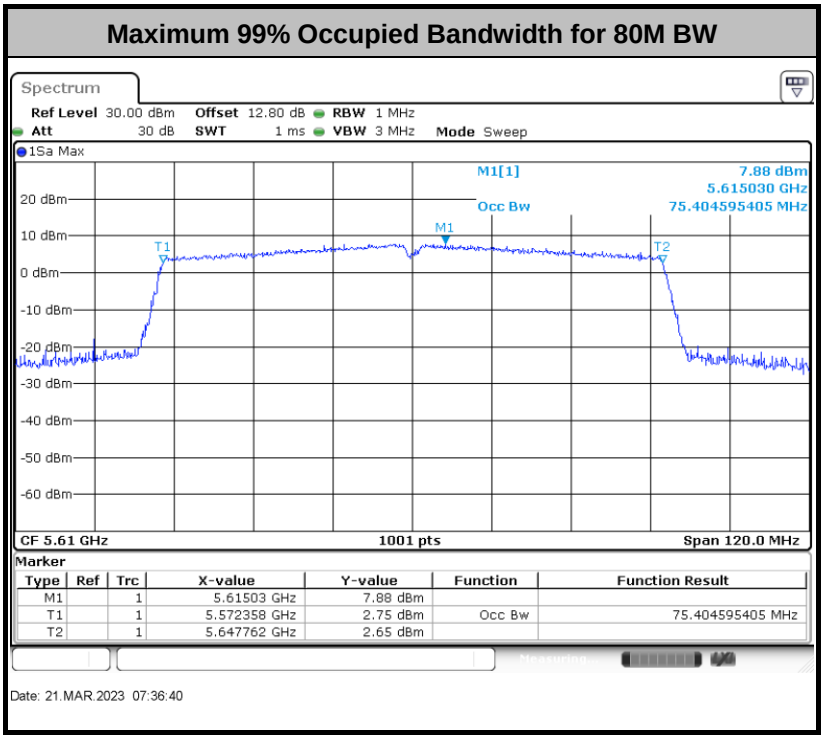
Maximum 99% Occupied Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 80M BW

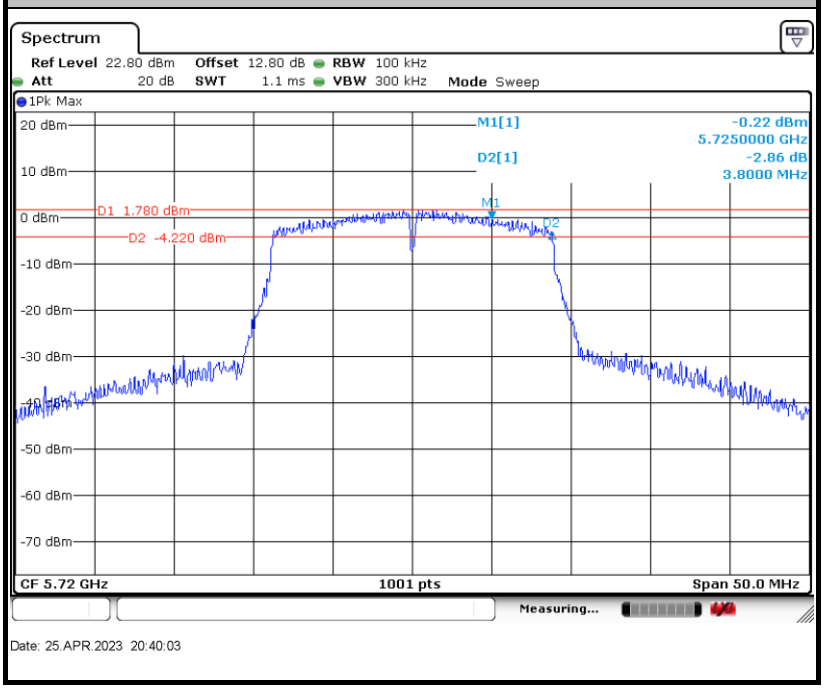


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

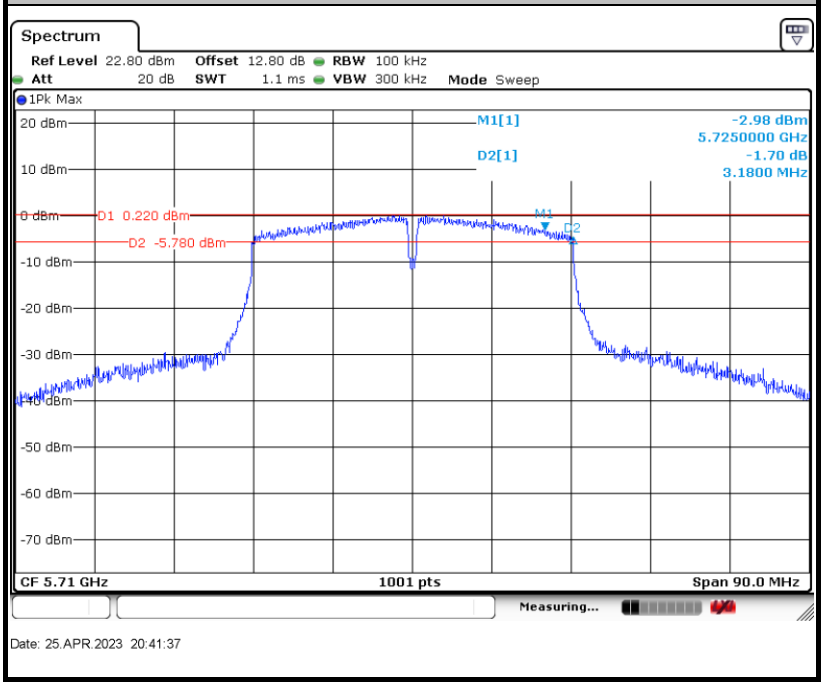
3.1.6 Test Result of 6dB Bandwidth for Straddle Channels

Mod.	Data Rate	NTX	Channel	Freq. (MHz)	6 dB Bandwidth (MHz)		FCC 6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	144	5720	3.20	3.20	0.5		Pass
HT20	MCS0	2	144	5720	3.80	3.80	0.5		Pass
HT40	MCS0	2	142	5710	3.18	3.18	0.5		Pass
VHT80	MCS0	2	138	5690	3.24	3.24	0.5		Pass

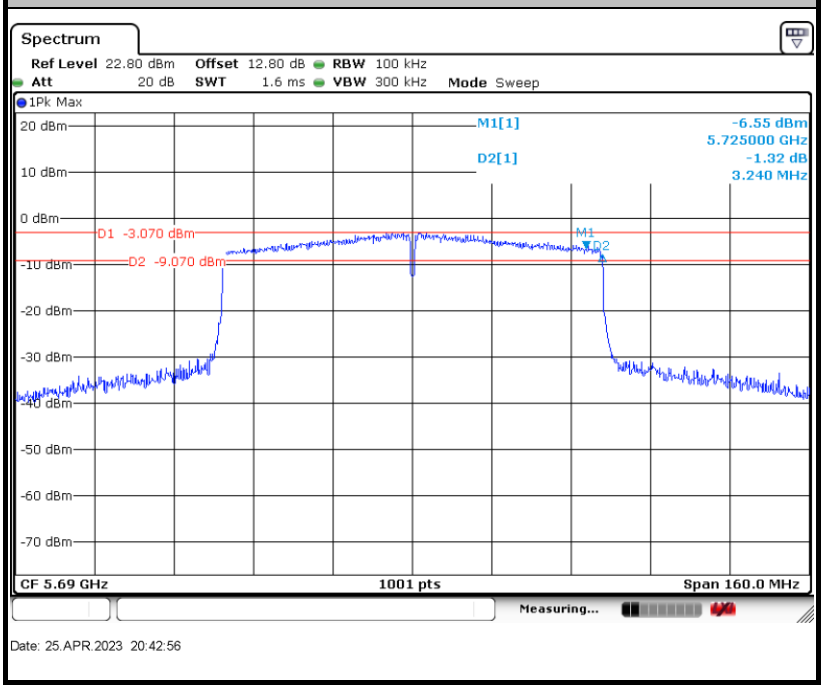
Minimum 6dB Bandwidth for CH144



Minimum 6dB Bandwidth for CH142



Minimum 6dB Bandwidth for CH138



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

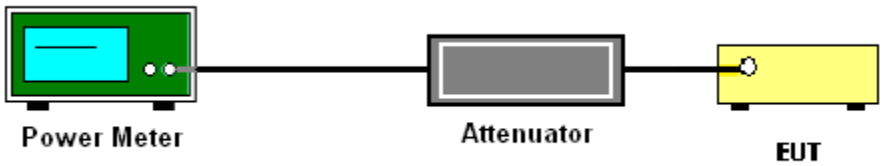
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

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

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-2 #

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

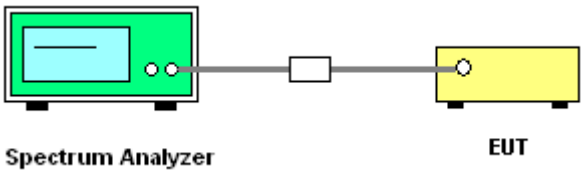
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and duty factor and attenuator loss. Measure the PPSD 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 the bin-by-bin summation to obtain the combined spectrum. For the 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.

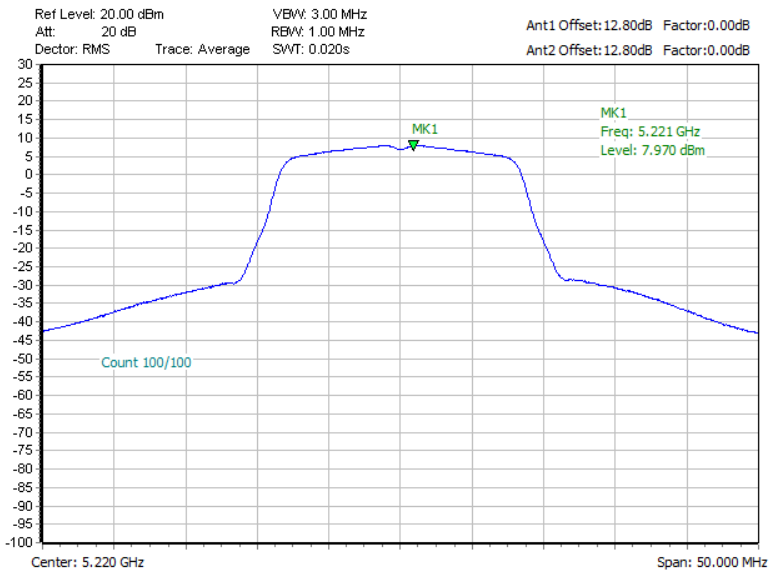
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz 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

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

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

$$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.77$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

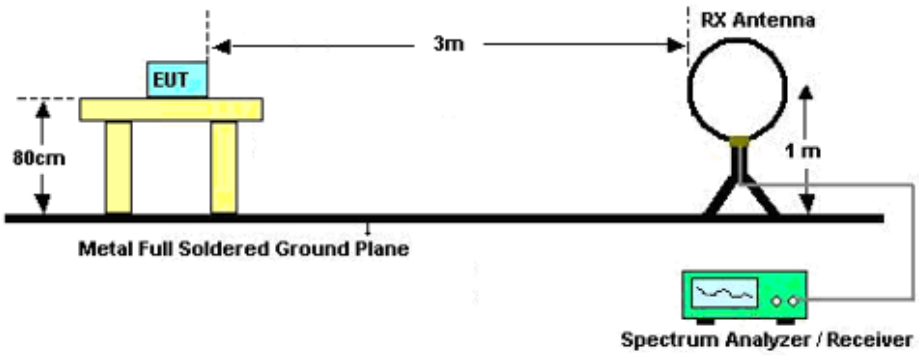
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

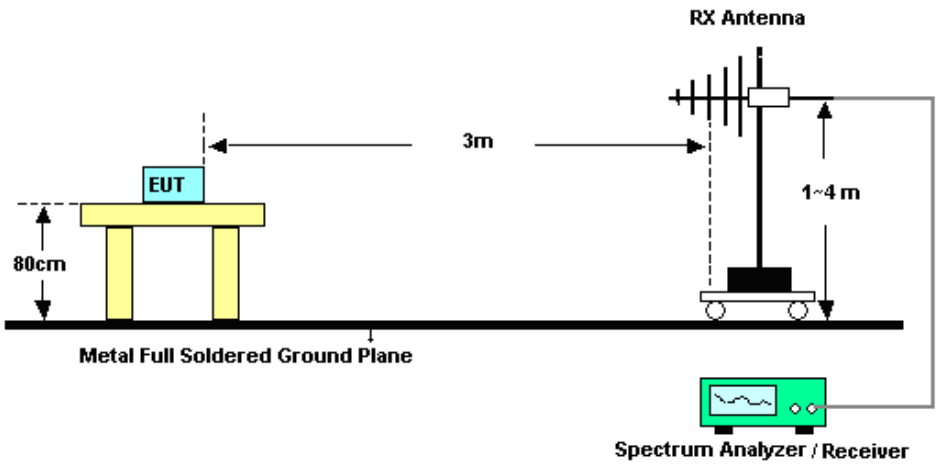
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

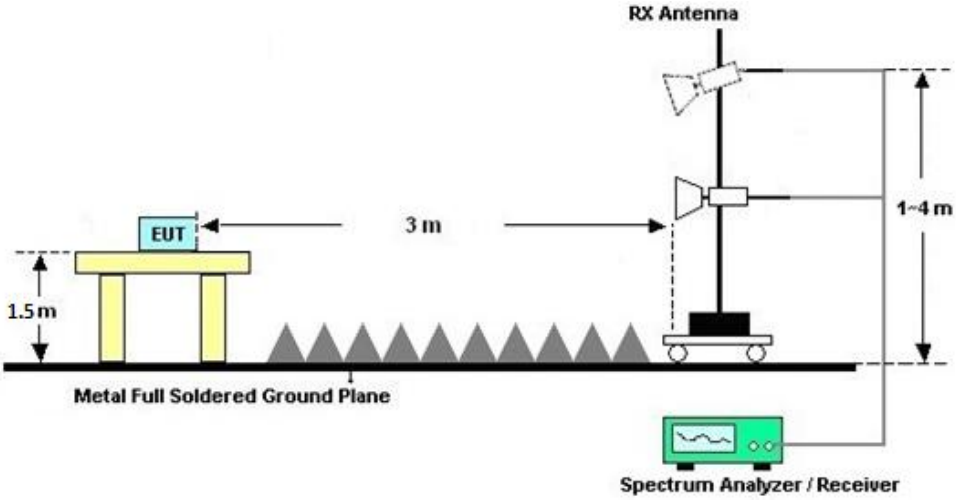
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

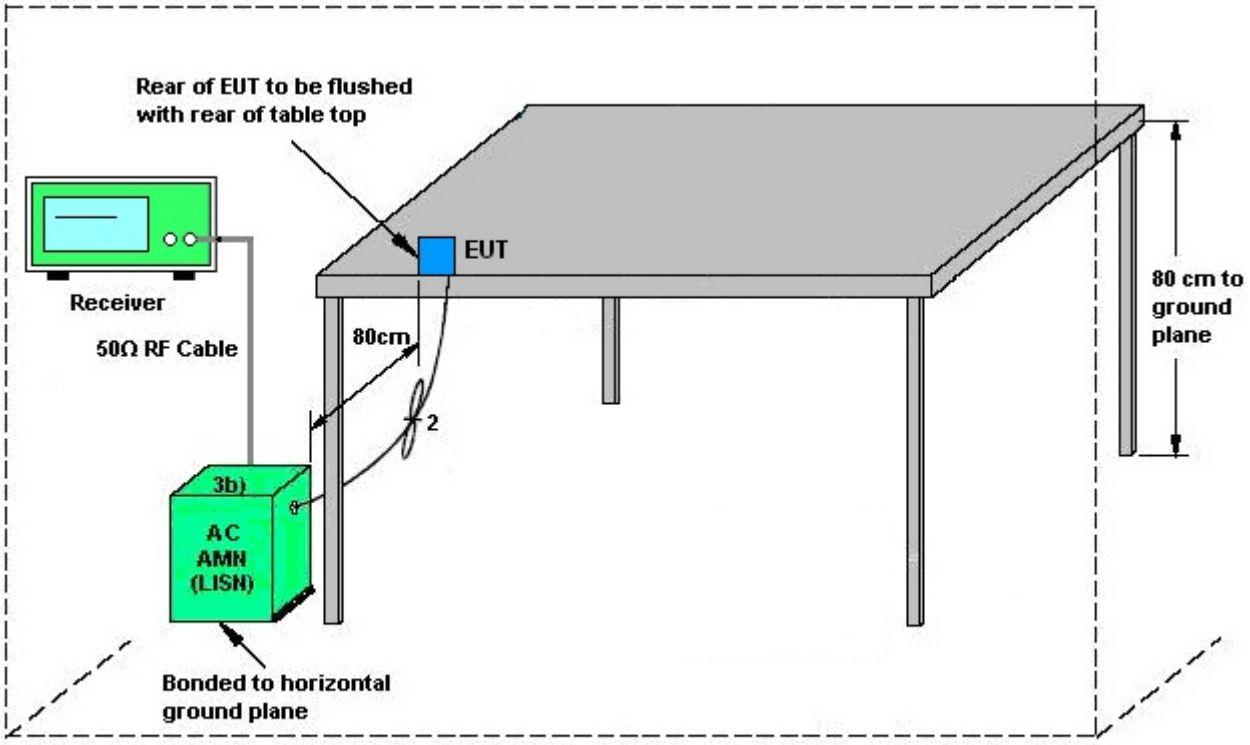
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

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

3.6.2 Measuring Instruments

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

3.6.3 Test Result of Automatically Discontinue Transmission

EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

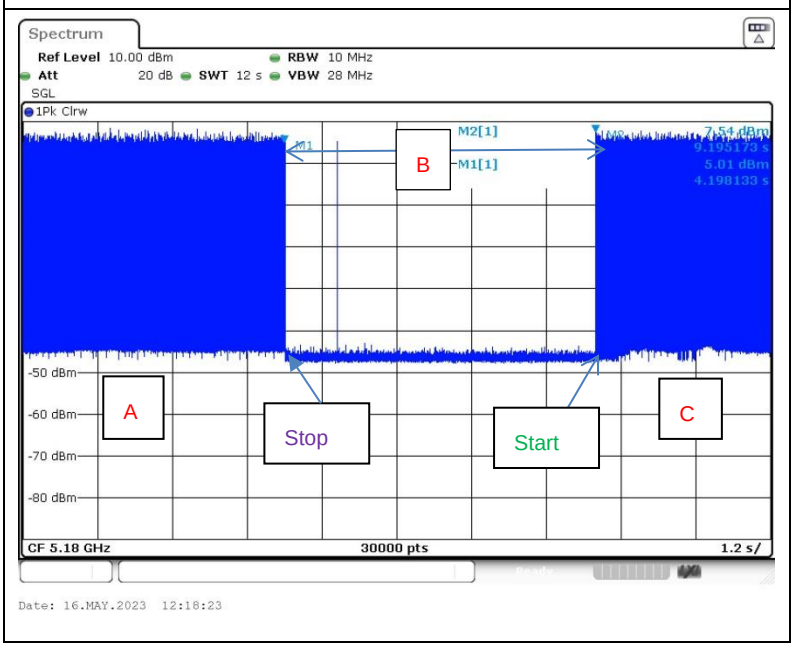
B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz



Note : The control / signaling information during the period B is precluded.

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(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 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>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	6.00	6.00	6.00	9.01	0.00	3.01
Band II	6.00	6.00	6.00	9.01	0.00	3.01
Band III	6.00	6.00	6.00	9.01	0.00	3.01

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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Mar. 21, 2023~ Apr. 25, 2023	Apr. 06, 2023	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 05, 2023		Apr. 04, 2024	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Mar. 21, 2023~ Apr. 25, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Mar. 21, 2023~ Apr. 25, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Attenuator	MICROWAV	EMVE2214-10	2	30MHz-26.5GHz	Feb. 22, 2023	Mar. 21, 2023~ Apr. 25, 2023	Feb. 22, 2024	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 26, 2023	Jul. 27, 2023	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2022	Apr. 26, 2023	Sep. 27, 2023	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Apr. 26, 2023	Apr. 07, 2024	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Nov. 10, 2022	Apr. 26, 2023	Nov. 09, 2023	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 26, 2023	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 26, 2023	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	May 18, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	May 18, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul.07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 27, 2022	May 16, 2023	Dec. 26, 2023	Conducted (DFS01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.7dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB

---------- THE END ----------

Appendix A. Conducted Test Results

Test Engineer:	Chen Ran	Temperature:	24~26	°C
Test Date:	2023/3/21~2023/4/25	Relative Humidity:	50~53	%

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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	16.68	16.58	20.10	20.40	-		22.20			
11a	6Mbps	2	44	5220	16.78	16.58	20.45	20.40	-		22.20			
11a	6Mbps	2	48	5240	16.78	16.63	20.40	20.40	-		22.21			
HT20	MCS0	2	36	5180	17.63	17.68	20.55	20.45	-		22.46			
HT20	MCS0	2	44	5220	17.73	17.63	20.70	20.35	-		22.46			
HT20	MCS0	2	48	5240	17.73	17.68	20.65	20.50	-		22.48			
HT40	MCS0	2	38	5190	36.36	36.26	41.04	40.59	-		23.01			
HT40	MCS0	2	46	5230	36.46	36.46	41.40	40.95	-		23.01			
VHT80	MCS0	2	42	5210	75.28	75.28	80.96	80.64	-		23.01			

Report Number : FR2N2209-01E

TEST RESULTS DATA
Average Power Table

FCC Band I																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail	Power Setting
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	36	5180	0.00	0.00	15.37	14.86	18.13	24.00		6.00			Pass	15.5
11a	6Mbps	2	44	5220	0.00	0.00	15.26	15.42	18.35	24.00		6.00			Pass	16
11a	6Mbps	2	48	5240	0.00	0.00	15.40	15.45	18.44	24.00		6.00			Pass	16
HT20	MCS0	2	36	5180	0.00	0.00	15.26	15.31	18.30	24.00		6.00			Pass	16
HT20	MCS0	2	44	5220	0.00	0.00	15.12	15.27	18.21	24.00		6.00			Pass	16
HT20	MCS0	2	48	5240	0.00	0.00	15.24	15.38	18.32	24.00		6.00			Pass	16
HT40	MCS0	2	38	5190	0.00	0.00	15.29	15.54	18.43	24.00		6.00			Pass	16
HT40	MCS0	2	46	5230	0.00	0.00	17.32	17.29	20.32	24.00		6.00			Pass	18
VHT20	MCS0	2	36	5180	0.00	0.00	15.22	15.26	18.25	24.00		6.00			Pass	16
VHT20	MCS0	2	44	5220	0.00	0.00	15.08	15.22	18.16	24.00		6.00			Pass	16
VHT20	MCS0	2	48	5240	0.00	0.00	15.20	15.33	18.28	24.00		6.00			Pass	16
VHT40	MCS0	2	38	5190	0.00	0.00	15.24	15.50	18.38	24.00		6.00			Pass	16
VHT40	MCS0	2	46	5230	0.00	0.00	17.28	17.24	20.27	24.00		6.00			Pass	18
VHT80	MCS0	2	42	5210	0.00	0.00	13.46	13.56	16.52	24.00		6.00			Pass	14.5

TEST RESULTS DATA
Power Spectral Density

FCC Band I															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	0.00	0.00			7.35	7.99		9.01			Pass
11a	6Mbps	2	44	5220	0.00	0.00			7.97	7.99		9.01			Pass
11a	6Mbps	2	48	5240	0.00	0.00			7.95	7.99		9.01			Pass
HT20	MCS0	2	36	5180	0.00	0.00			7.72	7.99		9.01			Pass
HT20	MCS0	2	44	5220	0.00	0.00			7.37	7.99		9.01			Pass
HT20	MCS0	2	48	5240	0.00	0.00			7.60	7.99		9.01			Pass
HT40	MCS0	2	38	5190	0.00	0.00			4.85	7.99		9.01			Pass
HT40	MCS0	2	46	5230	0.00	0.00			6.61	7.99		9.01			Pass
VHT80	MCS0	2	42	5210	0.00	0.00			0.04	7.99		9.01			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	52	5260	16.73	16.63	20.40	20.40	23.21		29.21		23.98		
11a	6Mbps	2	60	5300	16.68	16.63	20.30	20.30	23.21		29.21		23.98		
11a	6Mbps	2	64	5320	16.73	16.58	20.45	20.35	23.20		29.20		23.98		
HT20	MCS0	2	52	5260	17.73	17.68	20.55	20.60	23.48		29.48		23.98		
HT20	MCS0	2	60	5300	17.73	17.63	20.60	20.55	23.46		29.46		23.98		
HT20	MCS0	2	64	5320	17.68	17.63	20.65	20.45	23.46		29.46		23.98		
HT40	MCS0	2	54	5270	36.56	36.66	41.67	41.31	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.26	36.26	40.86	40.77	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.28	75.28	81.12	80.96	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	52	5260	0.00	0.00	15.35	15.45	18.41	23.98		6.00		26.99	Pass	16
11a	6Mbps	2	60	5300	0.00	0.00	15.12	15.23	18.19	23.98		6.00		26.99	Pass	15.5
11a	6Mbps	2	64	5320	0.00	0.00	15.19	15.31	18.26	23.98		6.00		26.99	Pass	15.5
HT20	MCS0	2	52	5260	0.00	0.00	15.33	15.34	18.35	23.98		6.00		26.99	Pass	16
HT20	MCS0	2	60	5300	0.00	0.00	15.45	15.65	18.56	23.98		6.00		26.99	Pass	16
HT20	MCS0	2	64	5320	0.00	0.00	15.53	15.58	18.57	23.98		6.00		26.99	Pass	16
HT40	MCS0	2	54	5270	0.00	0.00	17.42	17.51	20.48	23.98		6.00		26.99	Pass	18
HT40	MCS0	2	62	5310	0.00	0.00	15.60	15.57	18.60	23.98		6.00		26.99	Pass	16
VHT20	MCS0	2	52	5260	0.00	0.00	15.29	15.30	18.31	23.98		6.00		26.99	Pass	16
VHT20	MCS0	2	60	5300	0.00	0.00	15.41	15.61	18.52	23.98		6.00		26.99	Pass	16
VHT20	MCS0	2	64	5320	0.00	0.00	15.50	15.52	18.52	23.98		6.00		26.99	Pass	16
VHT40	MCS0	2	54	5270	0.00	0.00	17.39	17.45	20.43	23.98		6.00		26.99	Pass	18
VHT40	MCS0	2	62	5310	0.00	0.00	15.56	15.52	18.55	23.98		6.00		26.99	Pass	16
VHT80	MCS0	2	58	5290	0.00	0.00	14.65	14.53	17.60	23.98		6.00		26.99	Pass	15.5

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 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	52	5260	0.00	0.00			7.89	7.99		9.01				Pass
11a	6Mbps	2	60	5300	0.00	0.00			7.54	7.99		9.01				Pass
11a	6Mbps	2	64	5320	0.00	0.00			7.58	7.99		9.01				Pass
HT20	MCS0	2	52	5260	0.00	0.00			7.50	7.99		9.01				Pass
HT20	MCS0	2	60	5300	0.00	0.00			7.66	7.99		9.01				Pass
HT20	MCS0	2	64	5320	0.00	0.00			7.77	7.99		9.01				Pass
HT40	MCS0	2	54	5270	0.00	0.00			6.74	7.99		9.01				Pass
HT40	MCS0	2	62	5310	0.00	0.00			4.85	7.99		9.01				Pass
VHT80	MCS0	2	58	5290	0.00	0.00			0.88	7.99		9.01				Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	100	5500	16.78	16.68	20.30	20.50	23.22		29.22		23.98		
11a	6Mbps	2	116	5580	16.78	16.63	20.35	20.35	23.21		29.21		23.98		
11a	6Mbps	2	140	5700	16.78	16.58	20.30	20.35	23.20		29.20		23.98		
11a	6Mbps	2	144	5720	16.78	16.68	20.40	20.30	23.22		29.22		23.98		
HT20	MCS0	2	100	5500	17.73	17.68	20.55	20.60	23.48		29.48		23.98		
HT20	MCS0	2	116	5580	17.73	17.68	20.65	20.60	23.48		29.48		23.98		
HT20	MCS0	2	140	5700	17.68	17.63	20.55	20.55	23.46		29.46		23.98		
HT20	MCS0	2	144	5720	17.78	17.68	20.60	20.65	23.48		29.48		23.98		
HT40	MCS0	2	102	5510	36.46	36.36	40.77	40.59	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	36.56	36.46	41.40	41.13	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	36.66	36.36	41.85	41.13	23.98		30.00		23.98		
HT40	MCS0	2	142	5710	36.66	36.46	43.47	41.04	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.28	75.28	81.76	80.48	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	75.40	75.40	81.76	80.80	23.98		30.00		23.98		
VHT80	MCS0	2	138	5690	75.40	75.16	87.52	81.12	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	100	5500	0.00	0.00	15.17	14.95	18.07	23.98		6.00		26.99	Pass	16.5
11a	6Mbps	2	116	5580	0.00	0.00	15.48	15.42	18.46	23.98		6.00		26.99	Pass	16.5
11a	6Mbps	2	140	5700	0.00	0.00	14.62	14.58	17.61	23.98		6.00		26.99	Pass	15.5
11a	6Mbps	2	144	5720	0.00	0.00	15.52	15.35	18.45	23.98		6.00		26.99	Pass	16.5
HT20	MCS0	2	100	5500	0.00	0.00	14.97	14.70	17.85	23.98		6.00		26.99	Pass	16.5
HT20	MCS0	2	116	5580	0.00	0.00	15.34	15.32	18.34	23.98		6.00		26.99	Pass	16.5
HT20	MCS0	2	140	5700	0.00	0.00	14.41	14.32	17.38	23.98		6.00		26.99	Pass	15.5
HT20	MCS0	2	144	5720	0.00	0.00	15.36	15.37	18.38	23.98		6.00		26.99	Pass	16.5
HT40	MCS0	2	102	5510	0.00	0.00	14.70	14.41	17.57	23.98		6.00		26.99	Pass	16
HT40	MCS0	2	110	5550	0.00	0.00	16.85	16.57	19.72	23.98		6.00		26.99	Pass	18
HT40	MCS0	2	134	5670	0.00	0.00	16.72	16.82	19.78	23.98		6.00		26.99	Pass	18
HT40	MCS0	2	142	5710	0.00	0.00	16.83	16.75	19.80	23.98		6.00		26.99	Pass	18
VHT20	MCS0	2	100	5500	0.00	0.00	14.94	14.64	17.80	23.98		6.00		26.99	Pass	16.5
VHT20	MCS0	2	116	5580	0.00	0.00	15.29	15.27	18.29	23.98		6.00		26.99	Pass	16.5
VHT20	MCS0	2	140	5700	0.00	0.00	14.37	14.29	17.34	23.98		6.00		26.99	Pass	15.5
VHT20	MCS0	2	144	5720	0.00	0.00	15.31	15.31	18.32	23.98		6.00		26.99	Pass	16.5
VHT40	MCS0	2	102	5510	0.00	0.00	14.64	14.36	17.51	23.98		6.00		26.99	Pass	16
VHT40	MCS0	2	110	5550	0.00	0.00	16.80	16.53	19.68	23.98		6.00		26.99	Pass	18
VHT40	MCS0	2	134	5670	0.00	0.00	16.67	16.77	19.73	23.98		6.00		26.99	Pass	18
VHT40	MCS0	2	142	5710	0.00	0.00	16.78	16.71	19.76	23.98		6.00		26.99	Pass	18
VHT80	MCS0	2	106	5530	0.00	0.00	13.08	12.87	15.99	23.98		6.00		26.99	Pass	14.5
VHT80	MCS0	2	122	5610	0.00	0.00	16.37	16.55	19.47	23.98		6.00		26.99	Pass	18
VHT80	MCS0	2	138	5690	0.00	0.00	16.36	16.42	19.40	23.98		6.00		26.99	Pass	18

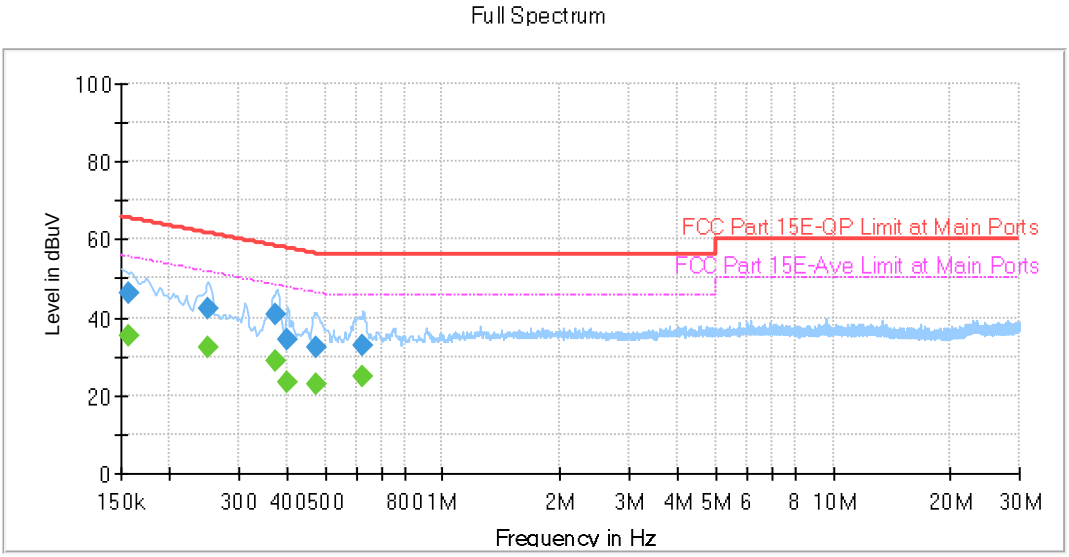
Report Number : FR2N2209-01E

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 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	100	5500	0.00	0.00			7.84	7.99		9.01				Pass
11a	6Mbps	2	116	5580	0.00	0.00			7.72	7.99		9.01				Pass
11a	6Mbps	2	140	5700	0.00	0.00			6.82	7.99		9.01				Pass
11a	6Mbps	2	144	5720	0.00	0.00			7.96	7.99		9.01				Pass
HT20	MCS0	2	100	5500	0.00	0.00			7.42	7.99		9.01				Pass
HT20	MCS0	2	116	5580	0.00	0.00			7.46	7.99		9.01				Pass
HT20	MCS0	2	140	5700	0.00	0.00			6.64	7.99		9.01				Pass
HT20	MCS0	2	144	5720	0.00	0.00			7.55	7.99		9.01				Pass
HT40	MCS0	2	102	5510	0.00	0.00			4.26	7.99		9.01				Pass
HT40	MCS0	2	110	5550	0.00	0.00			6.22	7.99		9.01				Pass
HT40	MCS0	2	134	5670	0.00	0.00			6.21	7.99		9.01				Pass
HT40	MCS0	2	142	5710	0.00	0.00			6.26	7.99		9.01				Pass
VHT80	MCS0	2	106	5530	0.00	0.00			-0.47	7.99		9.01				Pass
VHT80	MCS0	2	122	5610	0.00	0.00			2.55	7.99		9.01				Pass
VHT80	MCS0	2	138	5690	0.00	0.00			2.84	7.99		9.01				Pass

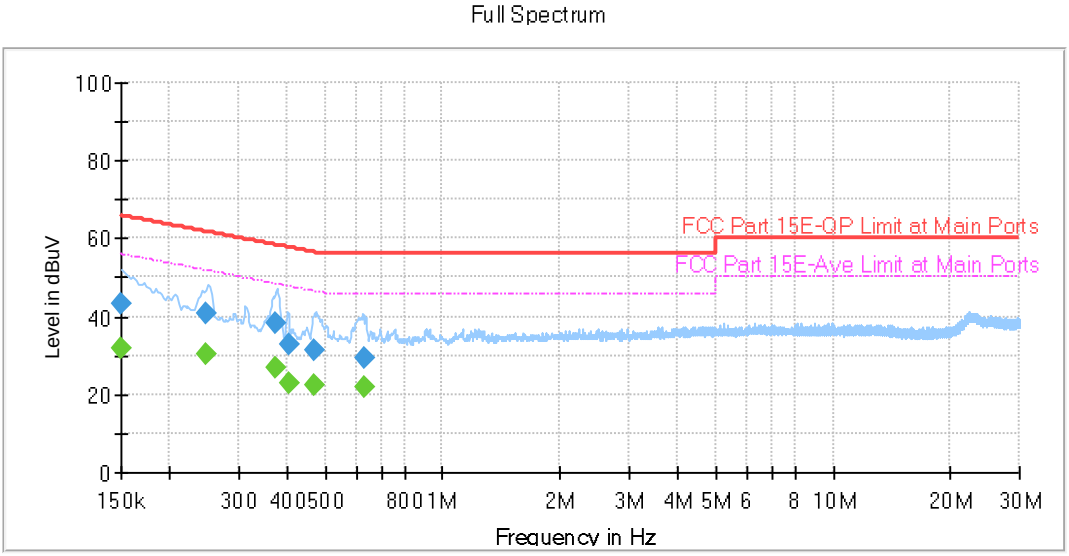
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tao Zhang	**Temperature :**	24~25℃
		Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Frequency MHz	QuasiPeak dBµV	Average dBµV	Limit dBµV	Margin dB	Line	Filter	Corr. dB
0.156210	46.11	---	65.66	19.55	L1	OFF	19.7
0.156210	---	35.15	55.66	20.51	L1	OFF	19.7
0.249270	42.12	---	61.78	19.66	L1	OFF	19.7
0.249270	---	32.27	51.78	19.51	L1	OFF	19.7
0.375000	40.98	---	58.39	17.41	L1	OFF	19.7
0.375000	---	28.67	48.39	19.72	L1	OFF	19.7
0.398490	34.08	---	57.89	23.80	L1	OFF	19.7
0.398490	---	23.60	47.89	24.28	L1	OFF	19.7
0.476250	32.10	---	56.40	24.30	L1	OFF	19.7
0.476250	---	22.76	46.40	23.65	L1	OFF	19.7
0.620250	32.97	---	56.00	23.03	L1	OFF	19.8
0.620250	---	24.80	46.00	21.20	L1	OFF	19.8

Test Engineer :	Tao Zhang	**Temperature :**	24~25℃
		Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Frequency MHz	QuasiPeak dBµV	Average dBµV	Limit dBµV	Margin dB	Line	Filter	Corr. dB
0.150000	43.40	---	66.00	22.60	N	OFF	19.7
0.150000	---	32.05	56.00	23.95	N	OFF	19.7
0.246750	40.89	---	61.87	20.97	N	OFF	19.7
0.246750	---	30.28	51.87	21.59	N	OFF	19.7
0.372750	38.20	---	58.44	20.24	N	OFF	19.7
0.372750	---	26.66	48.44	21.78	N	OFF	19.7
0.402630	32.81	---	57.80	24.99	N	OFF	19.7
0.402630	---	22.69	47.80	25.11	N	OFF	19.7
0.467250	31.28	---	56.56	25.28	N	OFF	19.7
0.467250	---	22.16	46.56	24.40	N	OFF	19.7
0.629160	29.26	---	56.00	26.74	N	OFF	19.7
0.629160	---	21.90	46.00	24.10	N	OFF	19.7

Appendix C. Radiated Spurious Emission

U-NII-1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	56.03	-17.97	74	42.37	34.42	9.74	30.5	249	37	P	H
		5149.24	45.57	-8.43	54	31.91	34.42	9.74	30.5	249	37	A	H
	*	5180	106.76	-	-	93.03	34.45	9.78	30.5	249	37	P	H
	*	5180	99.29	-	-	85.56	34.45	9.78	30.5	249	37	A	H
		5148.72	61.71	-12.29	74	48.05	34.42	9.74	30.5	220	130	P	V
		5147.94	50.21	-3.79	54	36.55	34.42	9.74	30.5	220	130	A	V
	*	5180	114.45	-	-	100.72	34.45	9.78	30.5	220	130	P	V
	*	5180	106.19	-	-	92.46	34.45	9.78	30.5	220	130	A	V
802.11a CH 44 5220MHz		5121.42	52.9	-21.1	74	39.27	34.39	9.74	30.5	241	34	P	H
		5140.92	42.54	-11.46	54	28.88	34.42	9.74	30.5	241	34	A	H
	*	5220	107.09	-	-	93.3	34.47	9.82	30.5	241	34	P	H
	*	5220	99.28	-	-	85.49	34.47	9.82	30.5	241	34	A	H
		5409.84	51.13	-22.87	74	37.17	34.62	9.84	30.5	241	34	P	H
		5457.84	41.15	-12.85	54	27.11	34.66	9.88	30.5	241	34	A	H
		5141.18	55.06	-18.94	74	41.4	34.42	9.74	30.5	224	124	P	V
		5140.92	45.32	-8.68	54	31.66	34.42	9.74	30.5	224	124	A	V
	*	5220	115.1	-	-	101.31	34.47	9.82	30.5	224	124	P	V
	*	5220	107.65	-	-	93.86	34.47	9.82	30.5	224	124	A	V
		5380.08	51.75	-22.25	74	37.8	34.61	9.84	30.5	224	124	P	V
		5380.8	42.32	-11.68	54	28.37	34.61	9.84	30.5	224	124	A	V

802.11a CH 48 5240MHz		5022.36	52.24	-21.76	74	38.79	34.33	9.62	30.5	241	37	P	H
		5082.16	42.52	-11.48	54	28.95	34.37	9.7	30.5	241	37	A	H
	*	5240	105.69	-	-	91.88	34.49	9.82	30.5	241	37	P	H
	*	5240	98.51	-	-	84.7	34.49	9.82	30.5	241	37	A	H
		5402.64	51.24	-22.76	74	37.28	34.62	9.84	30.5	241	37	P	H
		5459.28	41.13	-12.87	54	27.09	34.66	9.88	30.5	241	37	A	H
		5076.44	54.07	-19.93	74	40.5	34.37	9.7	30.5	224	115	P	V
		5081.12	44.11	-9.89	54	30.54	34.37	9.7	30.5	224	115	A	V
	*	5240	116.02	-	-	102.21	34.49	9.82	30.5	224	115	P	V
	*	5240	109.41	-	-	95.6	34.49	9.82	30.5	224	115	A	V
		5358.72	51.96	-22.04	74	38.04	34.58	9.84	30.5	224	115	P	V
		5400.96	42.56	-11.44	54	28.6	34.62	9.84	30.5	224	115	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	49.88	-18.42	68.3	59.13	37.62	13.48	60.35	172	335	P	H
		15540	53.17	-20.83	74	55.64	40.56	15.54	58.57	224	137	P	H
		15540	42.88	-11.12	54	45.35	40.56	15.54	58.57	224	137	A	H
		10360	49.07	-19.23	68.3	58.32	37.62	13.48	60.35	133	175	P	V
		15540	53.03	-20.97	74	55.5	40.56	15.54	58.57	145	216	P	V
		15540	43.43	-10.57	54	45.9	40.56	15.54	58.57	145	216	A	V
802.11a CH 44 5220MHz		10440	50.61	-17.69	68.3	59.81	37.66	13.51	60.37	175	346	P	H
		15660	54.09	-19.91	74	56.74	40.6	15.56	58.81	100	215	P	H
		15660	42.78	-11.22	54	45.43	40.6	15.56	58.81	100	215	A	H
		10440	49.54	-18.76	68.3	58.74	37.66	13.51	60.37	216	152	P	V
		15660	53.39	-20.61	74	56.04	40.6	15.56	58.81	112	326	P	V
		15660	42.62	-11.38	54	45.27	40.6	15.56	58.81	112	326	A	V
802.11a CH 48 5240MHz		10480	50.06	-18.24	68.3	59.23	37.69	13.53	60.39	178	342	P	H
		15720	53.47	-20.53	74	56.23	40.62	15.57	58.95	162	274	P	H
		15720	43.88	-10.12	54	46.64	40.62	15.57	58.95	162	274	A	H
		10480	48.84	-19.46	68.3	58.01	37.69	13.53	60.39	162	337	P	V
		15720	52.83	-21.17	74	55.59	40.62	15.57	58.95	132	246	P	V
		15720	42.98	-11.02	54	45.74	40.62	15.57	58.95	132	246	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5149.5	57.6	-16.4	74	43.94	34.42	9.74	30.5	297	48	P	H
		5149.76	46.89	-7.11	54	33.23	34.42	9.74	30.5	297	48	A	H
	*	5180	104.53	-	-	90.8	34.45	9.78	30.5	297	48	P	H
	*	5180	97.38	-	-	83.65	34.45	9.78	30.5	297	48	A	H
		5148.98	62.51	-11.49	74	48.85	34.42	9.74	30.5	100	72	P	V
		5148.46	50.63	-3.37	54	36.97	34.42	9.74	30.5	100	72	A	V
	*	5180	112.23	-	-	98.5	34.45	9.78	30.5	100	72	P	V
	*	5180	105.35	-	-	91.62	34.45	9.78	30.5	100	72	A	V
802.11n HT20 CH 44 5220MHz		5069.94	52.34	-21.66	74	38.83	34.35	9.66	30.5	242	38	P	H
		5141.18	42.72	-11.28	54	29.06	34.42	9.74	30.5	242	38	A	H
	*	5220	105.73	-	-	91.94	34.47	9.82	30.5	242	38	P	H
	*	5220	98.58	-	-	84.79	34.47	9.82	30.5	242	38	A	H
		5406.72	50.14	-23.86	74	36.18	34.62	9.84	30.5	242	38	P	H
		5457.6	41.14	-12.86	54	27.1	34.66	9.88	30.5	242	38	A	H
		5096.72	54.27	-19.73	74	40.69	34.38	9.7	30.5	222	112	P	V
		5140.66	45.31	-8.69	54	31.65	34.42	9.74	30.5	222	112	A	V
	*	5220	114.02	-	-	100.23	34.47	9.82	30.5	222	112	P	V
	*	5220	107.34	-	-	93.55	34.47	9.82	30.5	222	112	A	V
		5405.04	50.92	-23.08	74	36.96	34.62	9.84	30.5	222	112	P	V
		5380.8	42.27	-11.73	54	28.32	34.61	9.84	30.5	222	112	A	V

802.11n HT20 CH 48 5240MHz		5133.12	52.78	-21.22	74	39.13	34.41	9.74	30.5	230	38	P	H
		5081.12	42.65	-11.35	54	29.08	34.37	9.7	30.5	230	38	A	H
	*	5240	104.95	-	-	91.14	34.49	9.82	30.5	230	38	P	H
	*	5240	98.34	-	-	84.53	34.49	9.82	30.5	230	38	A	H
		5425.44	50.82	-23.18	74	36.85	34.63	9.84	30.5	230	38	P	H
		5458.32	41.14	-12.86	54	27.1	34.66	9.88	30.5	230	38	A	H
		5140.92	53.62	-20.38	74	39.96	34.42	9.74	30.5	226	116	P	V
		5119.86	43.99	-10.01	54	30.36	34.39	9.74	30.5	226	116	A	V
	*	5240	115.08	-	-	101.27	34.49	9.82	30.5	226	116	P	V
	*	5240	108.5	-	-	94.69	34.49	9.82	30.5	226	116	A	V
		5427.84	51.75	-22.25	74	37.74	34.63	9.88	30.5	226	116	P	V
		5351.28	42.74	-11.26	54	28.82	34.58	9.84	30.5	226	116	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	49.1	-19.2	68.3	58.35	37.62	13.48	60.35	106	320	P	H
		15540	52.11	-21.89	74	54.58	40.56	15.54	58.57	172	291	P	H
		15540	44.69	-9.31	54	47.16	40.56	15.54	58.57	172	291	A	H
		10360	46.94	-21.36	68.3	56.19	37.62	13.48	60.35	133	264	P	V
		15540	52.59	-21.41	74	55.06	40.56	15.54	58.57	162	89	P	V
		15540	45.57	-8.43	54	48.04	40.56	15.54	58.57	162	89	A	V
802.11n HT20 CH 44 5220MHz		10440	48.41	-19.89	68.3	57.61	37.66	13.51	60.37	120	324	P	H
		15660	53.58	-20.42	74	56.23	40.6	15.56	58.81	100	284	P	H
		15660	45.45	-8.55	54	48.1	40.6	15.56	58.81	100	284	A	H
		10440	47.76	-20.54	68.3	56.96	37.66	13.51	60.37	120	162	P	V
		15660	53.07	-20.93	74	55.72	40.6	15.56	58.81	139	251	P	V
		15660	45.21	-8.79	54	47.86	40.6	15.56	58.81	139	251	A	V
802.11n HT20 CH 48 5240MHz		10480	47.04	-21.26	68.3	56.21	37.69	13.53	60.39	165	42	P	H
		15720	52.58	-21.42	74	55.34	40.62	15.57	58.95	124	97	P	H
		15720	42.48	-11.52	54	45.24	40.62	15.57	58.95	124	97	A	H
		10480	47.07	-21.23	68.3	56.24	37.69	13.53	60.39	100	56	P	V
		15720	52.5	-21.5	74	55.26	40.62	15.57	58.95	100	65	P	V
		15720	42.82	-11.18	54	45.58	40.62	15.57	58.95	100	65	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5145.86	54.88	-19.12	74	41.22	34.42	9.74	30.5	298	72	P	H
		5150	44.67	-9.33	54	31.01	34.42	9.74	30.5	298	72	A	H
	*	5194	100.84	-	-	87.06	34.46	9.82	30.5	298	72	P	H
	*	5194	94.4	-	-	80.62	34.46	9.82	30.5	298	72	A	H
		5377.96	50.31	-23.69	74	36.36	34.61	9.84	30.5	298	72	P	H
		5459.16	41.35	-12.65	54	27.31	34.66	9.88	30.5	298	72	A	H
		5148.46	60.55	-13.45	74	46.89	34.42	9.74	30.5	100	72	P	V
		5148.72	49.89	-4.11	54	36.23	34.42	9.74	30.5	100	72	A	V
	*	5190	108.65	-	-	94.92	34.45	9.78	30.5	100	72	P	V
	*	5190	101.38	-	-	87.65	34.45	9.78	30.5	100	72	A	V
		5360.04	51.42	-22.58	74	37.5	34.58	9.84	30.5	100	72	P	V
		5357.8	41.7	-12.3	54	27.78	34.58	9.84	30.5	100	72	A	V
802.11n HT40 CH 46 5230MHz		5140.4	53.34	-20.66	74	39.68	34.42	9.74	30.5	389	46	P	H
		5149.76	42.79	-11.21	54	29.13	34.42	9.74	30.5	389	46	A	H
	*	5230	102.15	-	-	88.34	34.49	9.82	30.5	389	46	P	H
	*	5230	95.07	-	-	81.26	34.49	9.82	30.5	389	46	A	H
		5350.56	51.17	-22.83	74	37.25	34.58	9.84	30.5	389	46	P	H
		5458.08	41.36	-12.64	54	27.32	34.66	9.88	30.5	389	46	A	H
		5145.6	54.85	-19.15	74	41.19	34.42	9.74	30.5	103	124	P	V
		5147.16	45.56	-8.44	54	31.9	34.42	9.74	30.5	103	124	A	V
	*	5230	110.64	-	-	96.83	34.49	9.82	30.5	103	124	P	V
	*	5230	103.33	-	-	89.52	34.49	9.82	30.5	103	124	A	V
		5353.68	52.41	-21.59	74	38.49	34.58	9.84	30.5	103	124	P	V
		5352	42.18	-11.82	54	28.26	34.58	9.84	30.5	103	124	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10380	47.14	-21.16	68.3	56.36	37.63	13.5	60.35	100	75	P	H
		15570	51.76	-22.24	74	54.28	40.57	15.55	58.64	100	65	P	H
		15570	42.74	-11.26	54	45.26	40.57	15.55	58.64	100	65	A	H
		10380	47.91	-20.39	68.3	57.13	37.63	13.5	60.35	106	26	P	V
		15570	52.12	-21.88	74	54.64	40.57	15.55	58.64	135	26	P	V
		15570	43.83	-10.17	54	46.35	40.57	15.55	58.64	135	26	A	V
802.11n HT40 CH 46 5230MHz		10460	47.14	-21.16	68.3	56.32	37.67	13.53	60.38	100	65	P	H
		15690	52.62	-21.38	74	55.32	40.61	15.57	58.88	100	65	P	H
		15690	42.66	-11.34	54	45.36	40.61	15.57	58.88	100	65	A	H
		10460	47.06	-21.24	68.3	56.24	37.67	13.53	60.38	100	65	P	V
		15690	52.54	-21.46	74	55.24	40.61	15.57	58.88	126	89	P	V
		15690	43.98	-10.02	54	46.68	40.61	15.57	58.88	126	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5149.5	57.16	-16.84	74	43.5	34.42	9.74	30.5	292	71	P	H
		5149.76	45.35	-8.65	54	31.69	34.42	9.74	30.5	292	71	A	H
	*	5210	94.84	-	-	81.05	34.47	9.82	30.5	292	71	P	H
	*	5210	88.05	-	-	74.26	34.47	9.82	30.5	292	71	A	H
		5452.8	51.71	-22.29	74	37.67	34.66	9.88	30.5	292	71	P	H
		5458.8	41.27	-12.73	54	27.23	34.66	9.88	30.5	292	71	A	H
		5141.7	59.97	-14.03	74	46.31	34.42	9.74	30.5	100	73	P	V
		5149.76	50.76	-3.24	54	37.1	34.42	9.74	30.5	100	73	A	V
	*	5210	102.34	-	-	88.55	34.47	9.82	30.5	100	73	P	V
	*	5210	95.44	-	-	81.65	34.47	9.82	30.5	100	73	A	V
		5424.24	51.74	-22.26	74	37.77	34.63	9.84	30.5	100	73	P	V
		5356.56	41.57	-12.43	54	27.65	34.58	9.84	30.5	100	73	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10420	47.04	-21.26	68.3	56.25	37.65	13.51	60.37	100	352	P	H
		15630	52.61	-21.39	74	55.24	40.59	15.56	58.78	100	62	P	H
		15630	43.62	-10.38	54	46.25	40.59	15.56	58.78	100	62	A	H
		10420	46.87	-21.43	68.3	56.08	37.65	13.51	60.37	100	24	P	V
		15630	53.58	-20.42	74	56.21	40.59	15.56	58.78	105	79	P	V
		15630	43.6	-10.4	54	46.23	40.59	15.56	58.78	105	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5003.12	53.08	-20.92	74	39.66	34.3	9.62	30.5	362	45	P	H
		5101.14	42.56	-11.44	54	28.98	34.38	9.7	30.5	362	45	A	H
	*	5260	106.97	-	-	93.14	34.51	9.82	30.5	362	45	P	H
	*	5260	100.09	-	-	86.26	34.51	9.82	30.5	362	45	A	H
		5428.08	51.82	-22.18	74	37.81	34.63	9.88	30.5	362	45	P	H
		5455.68	41.35	-12.65	54	27.31	34.66	9.88	30.5	362	45	A	H
		5120.64	54.75	-19.25	74	41.12	34.39	9.74	30.5	203	83	P	V
		5101.4	44.09	-9.91	54	30.51	34.38	9.7	30.5	203	83	A	V
	*	5260	113.83	-	-	100	34.51	9.82	30.5	203	83	P	V
	*	5260	106.45	-	-	92.62	34.51	9.82	30.5	203	83	A	V
		5425.68	52.26	-21.74	74	38.29	34.63	9.84	30.5	203	83	P	V
		5350.08	42.77	-11.23	54	28.85	34.58	9.84	30.5	203	83	A	V
802.11a CH 60 5300MHz		5109.55	52.48	-21.52	74	38.89	34.39	9.7	30.5	271	72	P	H
		5137.2	42.53	-11.47	54	28.88	34.41	9.74	30.5	271	72	A	H
	*	5300	104.77	-	-	90.9	34.54	9.83	30.5	271	72	P	H
	*	5300	97.38	-	-	83.51	34.54	9.83	30.5	271	72	A	H
		5440.08	51.12	-22.88	74	37.09	34.65	9.88	30.5	271	72	P	H
		5457.12	41.42	-12.58	54	27.38	34.66	9.88	30.5	271	72	A	H
		5061.25	53.06	-20.94	74	39.55	34.35	9.66	30.5	204	90	P	V
		5141.05	43.76	-10.24	54	30.1	34.42	9.74	30.5	204	90	A	V
	*	5300	112.47	-	-	98.6	34.54	9.83	30.5	204	90	P	V
	*	5300	105.12	-	-	91.25	34.54	9.83	30.5	204	90	A	V
		5358	53.12	-20.88	74	39.2	34.58	9.84	30.5	204	90	P	V
		5381.28	43.89	-10.11	54	29.94	34.61	9.84	30.5	204	90	A	V

802.11a CH 64 5320MHz	*	5320	104.66	-	-	90.78	34.55	9.83	30.5	100	43	P	H
	*	5320	97.54	-	-	83.66	34.55	9.83	30.5	100	43	A	H
		5350.08	53.15	-20.85	74	39.23	34.58	9.84	30.5	100	43	P	H
		5350.08	44.52	-9.48	54	30.6	34.58	9.84	30.5	100	43	A	H
	*	5320	112.86	-	-	98.98	34.55	9.83	30.5	212	107	P	V
	*	5320	105.15	-	-	91.27	34.55	9.83	30.5	212	107	A	V
		5354.88	58.55	-15.45	74	44.63	34.58	9.84	30.5	212	107	P	V
		5350.08	49.62	-4.38	54	35.7	34.58	9.84	30.5	212	107	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	49.82	-18.48	68.3	58.88	37.71	13.55	60.32	100	281	P	H
		15780	51.86	-22.14	74	54.69	40.63	15.59	59.05	122	299	P	H
		15780	44.5	-9.5	54	47.33	40.63	15.59	59.05	122	299	A	H
		10520	48.6	-19.7	68.3	57.66	37.71	13.55	60.32	100	252	P	V
		15780	51.42	-22.58	74	54.25	40.63	15.59	59.05	146	263	P	V
		15780	44.2	-9.8	54	47.03	40.63	15.59	59.05	146	263	A	V
802.11a CH 60 5300MHz		10600	51.04	-22.96	74	59.62	37.78	13.58	59.94	100	35	P	H
		10600	40.1	-13.9	54	48.68	37.78	13.58	59.94	100	35	A	H
		15900	52.61	-21.39	74	55.62	40.67	15.61	59.29	100	46	P	H
		15900	43.57	-10.43	54	46.58	40.67	15.61	59.29	100	46	A	H
		10600	50.04	-23.96	74	58.62	37.78	13.58	59.94	124	36	P	V
		10600	39.94	-14.06	54	48.52	37.78	13.58	59.94	124	36	A	V
		15900	52.61	-21.39	74	55.62	40.67	15.61	59.29	100	42	P	V
		15900	42.62	-11.38	54	45.63	40.67	15.61	59.29	100	42	A	V
802.11a CH 64 5320MHz		10640	48.58	-25.42	74	56.96	37.81	13.6	59.79	124	211	P	H
		10640	40.48	-13.52	54	48.86	37.81	13.6	59.79	124	211	A	H
		15960	51.66	-22.34	74	54.77	40.69	15.63	59.43	100	205	P	H
		15960	44.67	-9.33	54	47.78	40.69	15.63	59.43	100	205	A	H
		10640	48.85	-25.15	74	57.23	37.81	13.6	59.79	130	296	P	V
		10640	41.48	-12.52	54	49.86	37.81	13.6	59.79	130	296	A	V
		15960	51.95	-22.05	74	55.06	40.69	15.63	59.43	100	166	P	V
		15960	44.79	-9.21	54	47.9	40.69	15.63	59.43	100	166	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5057.46	52.53	-21.47	74	39.02	34.35	9.66	30.5	222	34	P	H
		5101.14	42.73	-11.27	54	29.15	34.38	9.7	30.5	222	34	A	H
	*	5260	106.44	-	-	92.61	34.51	9.82	30.5	222	34	P	H
	*	5260	99.46	-	-	85.63	34.51	9.82	30.5	222	34	A	H
		5398.8	51.35	-22.65	74	37.39	34.62	9.84	30.5	222	34	P	H
		5459.28	41.43	-12.57	54	27.39	34.66	9.88	30.5	222	34	A	H
		5132.08	52.72	-21.28	74	39.07	34.41	9.74	30.5	224	120	P	V
		5140.14	44.13	-9.87	54	30.47	34.42	9.74	30.5	224	120	A	V
	*	5260	113.66	-	-	99.83	34.51	9.82	30.5	224	120	P	V
	*	5260	106.49	-	-	92.66	34.51	9.82	30.5	224	120	A	V
		5390.4	53.2	-20.8	74	39.25	34.61	9.84	30.5	224	120	P	V
		5351.52	43.16	-10.84	54	29.24	34.58	9.84	30.5	224	120	A	V
802.11n HT20 CH 60 5300MHz		5022.05	51.94	-22.06	74	38.49	34.33	9.62	30.5	202	91	P	H
		5139.3	42.48	-11.52	54	28.83	34.41	9.74	30.5	202	91	A	H
	*	5300	105.66	-	-	91.79	34.54	9.83	30.5	202	91	P	H
	*	5300	98.13	-	-	84.26	34.54	9.83	30.5	202	91	A	H
		5364.96	50.49	-23.51	74	36.56	34.59	9.84	30.5	202	91	P	H
		5380.56	41.67	-12.33	54	27.72	34.61	9.84	30.5	202	91	A	H
		5071.05	52.18	-21.82	74	38.67	34.35	9.66	30.5	225	114	P	V
		5140.7	43.9	-10.1	54	30.24	34.42	9.74	30.5	225	114	A	V
	*	5300	112.46	-	-	98.59	34.54	9.83	30.5	225	114	P	V
	*	5300	105.13	-	-	91.26	34.54	9.83	30.5	225	114	A	V
		5354.16	52.85	-21.15	74	38.93	34.58	9.84	30.5	225	114	P	V
		5350.8	44.63	-9.37	54	30.71	34.58	9.84	30.5	225	114	A	V

802.11n HT20 CH 64 5320MHz	*	5320	106.76	-	-	92.88	34.55	9.83	30.5	218	83	P	H
	*	5320	99.49	-	-	85.61	34.55	9.83	30.5	218	83	A	H
		5352	53.47	-20.53	74	39.55	34.58	9.84	30.5	218	83	P	H
		5352.64	45.39	-8.61	54	31.47	34.58	9.84	30.5	218	83	A	H
	*	5320	111.73	-	-	97.85	34.55	9.83	30.5	100	72	P	V
	*	5320	104.12	-	-	90.24	34.55	9.83	30.5	100	72	A	V
		5350.24	58.76	-15.24	74	44.84	34.58	9.84	30.5	100	72	P	V
		5353.28	49.2	-4.8	54	35.28	34.58	9.84	30.5	100	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	47.22	-21.08	68.3	56.28	37.71	13.55	60.32	152	62	P	H
		15780	52.41	-21.59	74	55.24	40.63	15.59	59.05	100	96	P	H
		15780	43.55	-10.45	54	46.38	40.63	15.59	59.05	100	96	A	H
		10520	47.26	-21.04	68.3	56.32	37.71	13.55	60.32	100	52	P	V
		15780	52.43	-21.57	74	55.26	40.63	15.59	59.05	106	85	P	V
		15780	42.47	-11.53	54	45.3	40.63	15.59	59.05	106	85	A	V
802.11n HT20 CH 60 5300MHz		10600	46.92	-27.08	74	55.5	37.78	13.58	59.94	-	-	P	H
		15900	53.84	-20.16	74	56.85	40.67	15.61	59.29	100	85	P	H
		15900	42.86	-11.14	54	45.87	40.67	15.61	59.29	100	85	A	H
		10600	47.73	-26.27	74	56.31	37.78	13.58	59.94	125	94	P	V
		10600	36.63	-17.37	54	45.21	37.78	13.58	59.94	125	94	A	V
		15900	52.25	-21.75	74	55.26	40.67	15.61	59.29	100	65	P	V
802.11n HT20 CH 64 5320MHz		10640	47.29	-26.71	74	55.67	37.81	13.6	59.79	132	65	P	H
		10640	37.3	-16.7	54	45.68	37.81	13.6	59.79	132	65	A	H
		15960	52.13	-21.87	74	55.24	40.69	15.63	59.43	154	65	P	H
		15960	42.01	-11.99	54	45.12	40.69	15.63	59.43	154	65	A	H
		10640	48.47	-25.53	74	56.85	37.81	13.6	59.79	100	85	P	V
		10640	36.9	-17.1	54	45.28	37.81	13.6	59.79	100	85	A	V
		15960	52.23	-21.77	74	55.34	40.69	15.63	59.43	100	95	P	V
		15960	42.21	-11.79	54	45.32	40.69	15.63	59.43	100	95	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5016.45	51.46	-22.54	74	38.03	34.31	9.62	30.5	212	98	P	H
		5115.85	42.57	-11.43	54	28.94	34.39	9.74	30.5	212	98	A	H
	*	5270	103.11	-	-	89.28	34.51	9.82	30.5	212	98	P	H
	*	5270	95.1	-	-	81.27	34.51	9.82	30.5	212	98	A	H
		5458.8	51.84	-22.16	74	37.8	34.66	9.88	30.5	212	98	P	H
		5351.04	42.23	-11.77	54	28.31	34.58	9.84	30.5	212	98	A	H
		5124.25	53.66	-20.34	74	40.01	34.41	9.74	30.5	218	117	P	V
		5150	43.84	-10.16	54	30.18	34.42	9.74	30.5	218	117	A	V
	*	5270	110.34	-	-	96.51	34.51	9.82	30.5	218	117	P	V
	*	5270	103.36	-	-	89.53	34.51	9.82	30.5	218	117	A	V
		5352.24	57.51	-16.49	74	43.59	34.58	9.84	30.5	218	117	P	V
		5351.04	46.41	-7.59	54	32.49	34.58	9.84	30.5	218	117	A	V
802.11n HT40 CH 62 5310MHz		5040.95	52.65	-21.35	74	39.15	34.34	9.66	30.5	211	112	P	H
		5135.1	42.49	-11.51	54	28.84	34.41	9.74	30.5	211	112	A	H
	*	5310	101.07	-	-	87.19	34.55	9.83	30.5	211	112	P	H
	*	5310	94.49	-	-	80.61	34.55	9.83	30.5	211	112	A	H
		5350.56	53.2	-20.8	74	39.28	34.58	9.84	30.5	211	112	P	H
		5350.08	44.47	-9.53	54	30.55	34.58	9.84	30.5	211	112	A	H
		5119	52.75	-21.25	74	39.12	34.39	9.74	30.5	215	114	P	V
		5145.6	43.01	-10.99	54	29.35	34.42	9.74	30.5	215	114	A	V
	*	5310	108.69	-	-	94.81	34.55	9.83	30.5	215	114	P	V
	*	5310	101.09	-	-	87.21	34.55	9.83	30.5	215	114	A	V
		5350.8	58.97	-15.03	74	45.05	34.58	9.84	30.5	215	114	P	V
		5350.56	50.78	-3.22	54	36.86	34.58	9.84	30.5	215	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10540	47.36	-20.94	68.3	56.31	37.73	13.57	60.25	100	52	P	H
		15810	53.1	-20.9	74	55.98	40.64	15.6	59.12	100	65	P	H
		15810	42.45	-11.55	54	45.33	40.64	15.6	59.12	100	65	A	H
		10540	47.36	-20.94	68.3	56.31	37.73	13.57	60.25	100	95	P	V
		15810	52.38	-21.62	74	55.26	40.64	15.6	59.12	100	65	P	V
		15810	42.37	-11.63	54	45.25	40.64	15.6	59.12	100	65	A	V
802.11n HT40 CH 62 5310MHz		10620	47.53	-26.47	74	56	37.8	13.6	59.87	100	65	P	H
		10620	36.79	-17.21	54	45.26	37.8	13.6	59.87	100	65	A	H
		15930	52.28	-21.72	74	55.34	40.68	15.62	59.36	100	85	P	H
		15930	42.2	-11.8	54	45.26	40.68	15.62	59.36	100	85	A	H
		10620	47.47	-26.53	74	55.94	37.8	13.6	59.87	100	153	P	V
		10620	36.53	-17.47	54	45	37.8	13.6	59.87	100	153	A	V
		15930	52.58	-21.42	74	55.64	40.68	15.62	59.36	100	64	P	V
		15930	42.07	-11.93	54	45.13	40.68	15.62	59.36	100	64	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5131.25	52.7	-21.3	74	39.05	34.41	9.74	30.5	223	81	P	H
		5112.7	42.66	-11.34	54	29.07	34.39	9.7	30.5	223	81	A	H
	*	5290	97.36	-	-	83.5	34.53	9.83	30.5	223	81	P	H
	*	5290	90.74	-	-	76.88	34.53	9.83	30.5	223	81	A	H
		5350.32	53.72	-20.28	74	39.8	34.58	9.84	30.5	223	81	P	H
		5350.32	45.2	-8.8	54	31.28	34.58	9.84	30.5	223	81	A	H
		5139.65	54.41	-19.59	74	40.75	34.42	9.74	30.5	198	121	P	V
		5149.8	43.63	-10.37	54	29.97	34.42	9.74	30.5	198	121	A	V
	*	5290	104.05	-	-	90.19	34.53	9.83	30.5	198	121	P	V
	*	5290	96.9	-	-	83.04	34.53	9.83	30.5	198	121	A	V
		5355.6	61.32	-12.68	74	47.4	34.58	9.84	30.5	198	121	P	V
		5350.32	50.98	-3.02	54	37.06	34.58	9.84	30.5	198	121	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2A 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10580	47.6	-20.7	68.3	56.27	37.77	13.58	60.02	120	241	P	H
		15870	51.27	-22.73	74	54.26	40.66	15.61	59.26	150	24	P	H
		15870	43.24	-10.76	54	46.23	40.66	15.61	59.26	150	24	A	H
		10580	47.01	-21.29	68.3	55.68	37.77	13.58	60.02	100	62	P	V
		15870	52.79	-21.21	74	55.78	40.66	15.61	59.26	100	85	P	V
		15870	42.37	-11.63	54	45.36	40.66	15.61	59.26	100	85	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5459.28	53	-21	74	38.96	34.66	9.88	30.5	173	100	P	H
		5468.72	54.72	-13.58	68.3	40.63	34.67	9.92	30.5	173	100	P	H
		5460	43.48	-10.52	54	29.44	34.66	9.88	30.5	173	100	A	H
	*	5500	107	-	-	92.88	34.7	9.92	30.5	173	100	P	H
	*	5500	99.74	-	-	85.62	34.7	9.92	30.5	173	100	A	H
		5459.76	56	-18	74	41.96	34.66	9.88	30.5	195	112	P	V
		5467.12	63.06	-5.24	68.3	48.97	34.67	9.92	30.5	195	112	P	V
		5460	47.48	-6.52	54	33.44	34.66	9.88	30.5	195	112	A	V
	*	5500	113.15	-	-	99.03	34.7	9.92	30.5	195	112	P	V
	*	5500	106.12	-	-	92	34.7	9.92	30.5	195	112	A	V
802.11a CH 116 5580MHz		5440.96	50.37	-23.63	74	36.34	34.65	9.88	30.5	205	86	P	H
		5462.32	49.37	-18.93	68.3	35.33	34.66	9.88	30.5	205	86	P	H
		5459.92	41.96	-12.04	54	27.92	34.66	9.88	30.5	205	86	A	H
	*	5580	107.9	-	-	93.61	34.81	10.01	30.53	205	86	P	H
	*	5580	100.81	-	-	86.52	34.81	10.01	30.53	205	86	A	H
		5731.295	51.03	-17.27	68.3	36.44	35.06	10.12	30.59	205	86	P	H
		5444.8	52.99	-21.01	74	38.96	34.65	9.88	30.5	210	111	P	V
		5460.16	50.8	-17.5	68.3	36.76	34.66	9.88	30.5	210	111	P	V
		5459.92	44.15	-9.85	54	30.11	34.66	9.88	30.5	210	111	A	V
	*	5580	115.84	-	-	101.55	34.81	10.01	30.53	210	111	P	V
	*	5580	107.89	-	-	93.6	34.81	10.01	30.53	210	111	A	V
		5756.495	54.16	-14.14	68.3	39.51	35.11	10.14	30.6	210	111	P	V

802.11a CH 140 5700MHz	*	5700	106.05	-	-	91.51	35	10.12	30.58	215	40	P	H
	*	5700	98.79	-	-	84.25	35	10.12	30.58	215	40	A	H
		5727.48	57.5	-10.8	68.3	42.91	35.06	10.12	30.59	215	40	P	H
	*	5700	114.31	-	-	99.77	35	10.12	30.58	208	101	P	V
	*	5700	106.68	-	-	92.14	35	10.12	30.58	208	101	A	V
		5729.32	62.98	-5.32	68.3	48.39	35.06	10.12	30.59	208	101	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	48.72	-25.28	74	55.06	38.1	13.76	58.2	100	260	P	H
		11000	41.52	-12.48	54	47.86	38.1	13.76	58.2	100	260	A	H
		16500	53.07	-15.23	68.3	53.52	40.95	16.1	57.5	-	-	P	H
		11000	49.85	-24.15	74	56.19	38.1	13.76	58.2	142	63	P	V
		11000	41.79	-12.21	54	48.13	38.1	13.76	58.2	142	63	A	V
		16500	52.94	-15.36	68.3	53.39	40.95	16.1	57.5	-	-	P	V
802.11a CH 116 5580MHz		11160	51.4	-22.6	74	57.49	38.27	13.74	58.1	100	233	P	H
		11160	42.79	-11.21	54	48.88	38.27	13.74	58.1	100	233	A	H
		16740	52.9	-15.4	68.3	52.54	41.07	16.36	57.07	126	320	P	H
		11160	51.71	-22.29	74	57.8	38.27	13.74	58.1	100	188	P	V
		11160	43.8	-10.2	54	49.89	38.27	13.74	58.1	100	188	A	V
		16740	54.25	-14.05	68.3	53.89	41.07	16.36	57.07	125	326	P	V
802.11a CH 140 5700MHz		11400	49.7	-24.3	74	55.45	38.5	13.71	57.96	120	294	P	H
		11400	41.45	-12.55	54	47.2	38.5	13.71	57.96	120	294	A	H
		17100	53.78	-14.52	68.3	52.68	41.24	16.56	56.7	163	299	P	H
		11400	49.77	-24.23	74	55.52	38.5	13.71	57.96	130	211	P	V
		11400	41.51	-12.49	54	47.26	38.5	13.71	57.96	130	211	A	V
		17100	54.29	-14.01	68.3	53.19	41.24	16.56	56.7	100	126	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5459.44	53.42	-20.58	74	39.38	34.66	9.88	30.5	314	74	P	H
		5470	57	-11.3	68.3	42.91	34.67	9.92	30.5	314	74	P	H
		5459.76	43.16	-10.84	54	29.12	34.66	9.88	30.5	314	74	A	H
	*	5500	104.28	-	-	90.16	34.7	9.92	30.5	314	74	P	H
	*	5500	97.77	-	-	83.65	34.7	9.92	30.5	314	74	A	H
		5457.52	56.59	-17.41	74	42.55	34.66	9.88	30.5	100	74	P	V
		5468.24	60.88	-7.42	68.3	46.79	34.67	9.92	30.5	100	74	P	V
		5458.8	45.74	-8.26	54	31.7	34.66	9.88	30.5	100	74	A	V
	*	5500	112.68	-	-	98.56	34.7	9.92	30.5	100	74	P	V
	*	5500	105.38	-	-	91.26	34.7	9.92	30.5	100	74	A	V
802.11n HT20 CH 116 5580MHz		5357.44	50.5	-23.5	74	36.58	34.58	9.84	30.5	193	92	P	H
		5463.52	49.36	-18.94	68.3	35.31	34.67	9.88	30.5	193	92	P	H
		5459.92	42.15	-11.85	54	28.11	34.66	9.88	30.5	193	92	A	H
	*	5580	107.19	-	-	92.9	34.81	10.01	30.53	193	92	P	H
	*	5580	99.61	-	-	85.32	34.81	10.01	30.53	193	92	A	H
		5741.06	51.92	-16.38	68.3	37.29	35.09	10.14	30.6	193	92	P	H
		5444.32	53.26	-20.74	74	39.23	34.65	9.88	30.5	188	114	P	V
		5464.72	51.98	-16.32	68.3	37.93	34.67	9.88	30.5	188	114	P	V
		5459.92	44.06	-9.94	54	30.02	34.66	9.88	30.5	188	114	A	V
	*	5580	113.08	-	-	98.79	34.81	10.01	30.53	188	114	P	V
	*	5580	105.94	-	-	91.65	34.81	10.01	30.53	188	114	A	V
		5747.36	52.45	-15.85	68.3	37.82	35.09	10.14	30.6	188	114	P	V

802.11n HT20 CH 140 5700MHz	*	5700	108.12	-	-	93.58	35	10.12	30.58	206	84	P	H
	*	5700	100.79	-	-	86.25	35	10.12	30.58	206	84	A	H
		5725.96	58.32	-9.98	68.3	43.73	35.06	10.12	30.59	206	84	P	H
	*	5700	113.22	-	-	98.68	35	10.12	30.58	208	108	P	V
	*	5700	106.16	-	-	91.62	35	10.12	30.58	208	108	A	V
		5726.12	64.73	-3.57	68.3	50.14	35.06	10.12	30.59	208	108	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	50.64	-23.36	74	56.98	38.1	13.76	58.2	100	32	P	H
		11000	39.36	-14.64	54	45.7	38.1	13.76	58.2	100	32	A	H
		16500	54.83	-13.47	68.3	55.28	40.95	16.1	57.5	100	65	P	H
		11000	48.92	-25.08	74	55.26	38.1	13.76	58.2	100	65	P	V
		11000	38.92	-15.08	54	45.26	38.1	13.76	58.2	100	65	A	V
		16500	55.58	-12.72	68.3	56.03	40.95	16.1	57.5	100	85	P	V
802.11n HT20 CH 116 5580MHz		11160	50.89	-23.11	74	56.98	38.27	13.74	58.1	100	65	P	H
		11160	39.17	-14.83	54	45.26	38.27	13.74	58.1	100	65	A	H
		16740	55.19	-13.11	68.3	54.83	41.07	16.36	57.07	126	64	P	H
		11160	50.25	-23.75	74	56.34	38.27	13.74	58.1	105	36	P	V
		11160	39.58	-14.42	54	45.67	38.27	13.74	58.1	105	36	A	V
		16740	55.77	-12.53	68.3	55.41	41.07	16.36	57.07	100	95	P	V
802.11n HT20 CH 140 5700MHz		11400	50.53	-23.47	74	56.28	38.5	13.71	57.96	100	85	P	H
		11400	39.93	-14.07	54	45.68	38.5	13.71	57.96	100	85	A	H
		17100	56.34	-11.96	68.3	55.24	41.24	16.56	56.7	100	85	P	H
		11400	50.47	-23.53	74	56.22	38.5	13.71	57.96	100	87	P	V
		11400	39.95	-14.05	54	45.7	38.5	13.71	57.96	100	87	A	V
		17100	56.09	-12.21	68.3	54.99	41.24	16.56	56.7	125	64	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5416.96	52.06	-21.94	74	38.09	34.63	9.84	30.5	280	72	P	H
		5470	53.93	-14.37	68.3	39.84	34.67	9.92	30.5	280	72	P	H
		5459.92	42.82	-11.18	54	28.78	34.66	9.88	30.5	280	72	A	H
	*	5510	99.83	-	-	85.67	34.7	9.97	30.51	280	72	P	H
	*	5510	92.42	-	-	78.26	34.7	9.97	30.51	280	72	A	H
		5730.35	51.77	-16.53	68.3	37.18	35.06	10.12	30.59	280	72	P	H
		5458.72	54.72	-19.28	74	40.68	34.66	9.88	30.5	100	74	P	V
		5467.6	61.15	-7.15	68.3	47.06	34.67	9.92	30.5	100	74	P	V
		5458.24	45.84	-8.16	54	31.8	34.66	9.88	30.5	100	74	A	V
	*	5510	108.1	-	-	93.94	34.7	9.97	30.51	100	74	P	V
	*	5510	101.28	-	-	87.12	34.7	9.97	30.51	100	74	A	V
		5720.9	48.66	-19.64	68.3	34.07	35.06	10.12	30.59	100	74	P	V
802.11n HT40 CH 110 5550MHz		5439.52	51.78	-22.22	74	37.75	34.65	9.88	30.5	198	89	P	H
		5469.52	52.31	-15.99	68.3	38.22	34.67	9.92	30.5	198	89	P	H
		5459.92	42.59	-11.41	54	28.55	34.66	9.88	30.5	198	89	A	H
	*	5550	104.71	-	-	90.44	34.78	10.01	30.52	198	89	P	H
	*	5550	97.89	-	-	83.62	34.78	10.01	30.52	198	89	A	H
		5750.825	51.81	-16.49	68.3	37.18	35.09	10.14	30.6	198	89	P	H
		5457.76	52.77	-21.23	74	38.73	34.66	9.88	30.5	211	113	P	V
		5470	55.48	-12.82	68.3	41.39	34.67	9.92	30.5	211	113	P	V
		5459.92	45.39	-8.61	54	31.35	34.66	9.88	30.5	211	113	A	V
	*	5550	111.87	-	-	97.6	34.78	10.01	30.52	211	113	P	V
	*	5550	104.5	-	-	90.23	34.78	10.01	30.52	211	113	A	V
		5688.455	52.47	-15.83	68.3	37.96	35	10.09	30.58	211	113	P	V

802.11n HT40 CH 134 5670MHz		5455	51.29	-22.71	74	37.25	34.66	9.88	30.5	100	101	P	H
		5468.3	49.94	-18.36	68.3	35.85	34.67	9.92	30.5	100	101	P	H
		5458.15	41.49	-12.51	54	27.45	34.66	9.88	30.5	100	101	A	H
	*	5670	102.78	-	-	88.28	34.98	10.09	30.57	100	101	P	H
	*	5670	95.75	-	-	81.25	34.98	10.09	30.57	100	101	A	H
		5730.875	55.52	-12.78	68.3	40.93	35.06	10.12	30.59	100	101	P	H
		5439.6	50.6	-23.4	74	36.57	34.65	9.88	30.5	209	92	P	V
		5466.55	50.01	-18.29	68.3	35.92	34.67	9.92	30.5	209	92	P	V
		5459.9	41.99	-12.01	54	27.95	34.66	9.88	30.5	209	92	A	V
	*	5670	112.36	-	-	97.86	34.98	10.09	30.57	209	92	P	V
	*	5670	104.76	-	-	90.26	34.98	10.09	30.57	209	92	A	V
		5727.025	61.16	-7.14	68.3	46.57	35.06	10.12	30.59	209	92	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11020	49.91	-24.09	74	56.22	38.12	13.76	58.19	132	85	P	H
		11020	39	-15	54	45.31	38.12	13.76	58.19	132	85	A	H
		16530	55.99	-12.31	68.3	56.33	40.97	16.13	57.44	116	46	P	H
		11020	50	-24	74	56.31	38.12	13.76	58.19	125	64	P	V
		11020	38.88	-15.12	54	45.19	38.12	13.76	58.19	125	64	A	V
		16530	54.9	-13.4	68.3	55.24	40.97	16.13	57.44	100	65	P	V
802.11n HT40 CH 110 5550MHz		11100	50.05	-23.95	74	56.24	38.2	13.75	58.14	100	65	P	H
		11100	39.51	-14.49	54	45.7	38.2	13.75	58.14	100	65	A	H
		16650	55.45	-12.85	68.3	55.39	41.03	16.25	57.22	152	65	P	H
		11100	50.05	-23.95	74	56.24	38.2	13.75	58.14	100	52	P	V
		11100	39.17	-14.83	54	45.36	38.2	13.75	58.14	100	52	A	V
		16650	55.18	-13.12	68.3	55.12	41.03	16.25	57.22	100	65	P	V
802.11n HT40 CH 134 5670MHz		11340	50.4	-23.6	74	56.25	38.43	13.72	58	132	56	P	H
		11340	40.68	-13.32	54	46.53	38.43	13.72	58	132	56	A	H
		17010	55.38	-12.92	68.3	54.21	41.21	16.58	56.62	100	85	P	H
		11340	49.42	-24.58	74	55.27	38.43	13.72	58	152	32	P	V
		11340	40.12	-13.88	54	45.97	38.43	13.72	58	152	32	A	V
		17010	56.38	-11.92	68.3	55.21	41.21	16.58	56.62	102	36	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5450.08	53.82	-20.18	74	39.78	34.66	9.88	30.5	100	72	P	H
		5467.36	53.4	-14.9	68.3	39.31	34.67	9.92	30.5	100	72	P	H
		5458	43.41	-10.59	54	29.37	34.66	9.88	30.5	100	72	A	H
	*	5530	96.47	-	-	82.28	34.73	9.97	30.51	100	72	P	H
	*	5530	89.8	-	-	75.61	34.73	9.97	30.51	100	72	A	H
		5728.46	52.25	-16.05	68.3	37.66	35.06	10.12	30.59	100	72	P	H
		5454.4	60.03	-13.97	74	45.99	34.66	9.88	30.5	206	99	P	V
		5466.88	61.34	-6.96	68.3	47.25	34.67	9.92	30.5	206	99	P	V
		5457.76	50.56	-3.44	54	36.52	34.66	9.88	30.5	206	99	A	V
	*	5530	104.4	-	-	90.21	34.73	9.97	30.51	206	99	P	V
	*	5530	97.43	-	-	83.24	34.73	9.97	30.51	206	99	A	V
		5751.77	52.75	-15.55	68.3	38.1	35.11	10.14	30.6	206	99	P	V
802.11ac VHT80 CH 122 5610MHz		5455.6	51.88	-22.12	74	37.84	34.66	9.88	30.5	275	56	P	H
		5460.88	50.85	-17.45	68.3	36.81	34.66	9.88	30.5	275	56	P	H
		5459.92	41.82	-12.18	54	27.78	34.66	9.88	30.5	275	56	A	H
	*	5610	99.57	-	-	85.2	34.87	10.05	30.55	275	56	P	H
	*	5610	92.89	-	-	78.52	34.87	10.05	30.55	275	56	A	H
		5745.925	54.86	-13.44	68.3	40.23	35.09	10.14	30.6	275	56	P	H
		5458.24	53.23	-20.77	74	39.19	34.66	9.88	30.5	100	128	P	V
		5467.6	53.65	-14.65	68.3	39.56	34.67	9.92	30.5	100	128	P	V
		5459.92	43.71	-10.29	54	29.67	34.66	9.88	30.5	100	128	A	V
	*	5610	107.39	-	-	93.02	34.87	10.05	30.55	100	128	P	V
	*	5610	99.63	-	-	85.26	34.87	10.05	30.55	100	128	A	V
		5725.1	57.54	-10.76	68.3	42.95	35.06	10.12	30.59	100	128	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11060	50	-24	74	56.24	38.17	13.75	58.16	124	62	P	H
		11060	39.03	-14.97	54	45.27	38.17	13.75	58.16	124	62	A	H
		16590	55.18	-13.12	68.3	55.31	41	16.21	57.34	100	62	P	H
		11060	49.97	-24.03	74	56.21	38.17	13.75	58.16	100	62	P	V
		11060	38.99	-15.01	54	45.23	38.17	13.75	58.16	100	62	A	V
		16590	54.81	-13.49	68.3	54.94	41	16.21	57.34	100	100	P	V
802.11ac VHT80 CH 122 5610MHz		11220	50.25	-23.75	74	56.27	38.32	13.73	58.07	100	59	P	H
		11220	39.25	-14.75	54	45.27	38.32	13.73	58.07	100	59	A	H
		16830	56.04	-12.26	68.3	55.39	41.12	16.44	56.91	100	65	P	H
		11220	50.19	-23.81	74	56.21	38.32	13.73	58.07	106	34	P	V
		11220	39.65	-14.35	54	45.67	38.32	13.73	58.07	106	34	A	V
		16830	55.9	-12.4	68.3	55.25	41.12	16.44	56.91	102	64	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		5392.35	50.65	-23.35	74	36.7	34.61	9.84	30.5	222	1	P	H
		5468.8	50.58	-17.72	68.3	36.49	34.67	9.92	30.5	222	1	P	H
	*	5720	106.79	-	-	92.2	35.06	10.12	30.59	222	1	P	H
		5877.45	51.48	-16.82	68.3	36.61	35.31	10.21	30.65	222	1	P	H
		5458.9	41.49	-12.51	54	27.45	34.66	9.88	30.5	222	1	A	H
	*	5720	100.41	-	-	85.82	35.06	10.12	30.59	222	1	A	H
		5353.3	51.03	-22.97	74	37.11	34.58	9.84	30.5	204	114	P	V
		5462.75	50.02	-18.28	68.3	35.97	34.67	9.88	30.5	204	114	P	V
	*	5720	111.97	-	-	97.38	35.06	10.12	30.59	204	114	P	V
		5888.45	54.47	-13.83	68.3	39.58	35.33	10.21	30.65	204	114	P	V
		5458.9	41.86	-12.14	54	27.82	34.66	9.88	30.5	204	114	A	V
	*	5720.7	106.88	-	-	92.29	35.06	10.12	30.59	204	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	50.26	-23.74	74	55.96	38.53	13.71	57.94	100	310	P	H
		11440	42.1	-11.9	54	47.8	38.53	13.71	57.94	100	310	A	H
		17160	54.5	-13.8	68.3	53.45	41.27	16.55	56.77	136	291	P	H
		11440	50.52	-23.48	74	56.22	38.53	13.71	57.94	128	281	P	V
		11440	42.6	-11.4	54	48.3	38.53	13.71	57.94	128	281	A	V
		17160	54.42	-13.88	68.3	53.37	41.27	16.55	56.77	142	190	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5438.55	50.63	-23.37	74	36.6	34.65	9.88	30.5	205	85	P	H
		5462.2	50.29	-18.01	68.3	36.25	34.66	9.88	30.5	205	85	P	H
	*	5720	106.89	-	-	92.3	35.06	10.12	30.59	205	85	P	H
		5891.2	51.91	-16.39	68.3	37.02	35.33	10.21	30.65	205	85	P	H
		5460	41.53	-12.47	54	27.49	34.66	9.88	30.5	205	85	A	H
	*	5720	99.82	-	-	85.23	35.06	10.12	30.59	205	85	A	H
		5387.95	51.52	-22.48	74	37.57	34.61	9.84	30.5	207	101	P	V
		5466.6	49.82	-18.48	68.3	35.73	34.67	9.92	30.5	207	101	P	V
	*	5720	111.54	-	-	96.95	35.06	10.12	30.59	207	101	P	V
		5886.8	53.44	-14.86	68.3	38.57	35.31	10.21	30.65	207	101	P	V
		5460	41.78	-12.22	54	27.74	34.66	9.88	30.5	207	101	A	V
	*	5720	106.78	-	-	92.19	35.06	10.12	30.59	207	101	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	51.12	-22.88	74	56.82	38.53	13.71	57.94	124	65	P	H
		11440	39.92	-14.08	54	45.62	38.53	13.71	57.94	124	65	A	H
		17160	55.3	-13	68.3	54.25	41.27	16.55	56.77	135	64	P	H
		11440	50.53	-23.47	74	56.23	38.53	13.71	57.94	154	61	P	V
		11440	39.53	-14.47	54	45.23	38.53	13.71	57.94	154	61	A	V
		17160	55.67	-12.63	68.3	54.62	41.27	16.55	56.77	115	85	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5437.45	50.83	-23.17	74	36.8	34.65	9.88	30.5	100	101	P	H
		5465.5	49.02	-19.28	68.3	34.97	34.67	9.88	30.5	100	101	P	H
	*	5710	103.76	-	-	89.19	35.03	10.12	30.58	100	101	P	H
		5875.8	52.27	-16.03	68.3	37.4	35.31	10.21	30.65	100	101	P	H
		5455.6	41.49	-12.51	54	27.45	34.66	9.88	30.5	100	101	A	H
	*	5710	96.34	-	-	81.77	35.03	10.12	30.58	100	101	A	H
		5430.3	51.33	-22.67	74	37.3	34.65	9.88	30.5	209	86	P	V
		5468.25	50.09	-18.21	68.3	36	34.67	9.92	30.5	209	86	P	V
	*	5710	110.26	-	-	95.69	35.03	10.12	30.58	209	86	P	V
		5899.45	52.41	-15.89	68.3	37.5	35.33	10.24	30.66	209	86	P	V
		5460	41.76	-12.24	54	27.72	34.66	9.88	30.5	209	86	A	V
	*	5710	104.26	-	-	89.69	35.03	10.12	30.58	209	86	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11420	50.61	-23.39	74	56.33	38.52	13.71	57.95	152	153	P	H
		11420	39.96	-14.04	54	45.68	38.52	13.71	57.95	152	153	A	H
		17130	55.39	-12.91	68.3	54.32	41.25	16.55	56.73	100	64	P	H
		11420	49.54	-24.46	74	55.26	38.52	13.71	57.95	100	85	P	V
		11420	41.13	-12.87	54	46.85	38.52	13.71	57.95	100	85	A	V
		17130	56.28	-12.02	68.3	55.21	41.25	16.55	56.73	123	95	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5406.65	50.18	-23.82	74	36.22	34.62	9.84	30.5	262	56	P	H
		5460.55	50	-18.3	68.3	35.96	34.66	9.88	30.5	262	56	P	H
	*	5690	98.55	-	-	84.04	35	10.09	30.58	262	56	P	H
		5854.35	52.52	-15.78	68.3	37.69	35.28	10.19	30.64	262	56	P	H
		5458.9	41.59	-12.41	54	27.55	34.66	9.88	30.5	262	56	A	H
	*	5690	90.99	-	-	76.48	35	10.09	30.58	262	56	A	H
		5453.4	50.58	-23.42	74	36.54	34.66	9.88	30.5	216	112	P	V
		5461.65	49.46	-18.84	68.3	35.42	34.66	9.88	30.5	216	112	P	V
	*	5690	106.42	-	-	91.91	35	10.09	30.58	216	112	P	V
		5895.05	52.78	-15.52	68.3	37.87	35.33	10.24	30.66	216	112	P	V
	*	5460	41.84	-12.16	54	27.8	34.66	9.88	30.5	216	112	A	V
		5690	96.86	-	-	82.35	35	10.09	30.58	216	112	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11380	50.5	-23.5	74	56.27	38.48	13.72	57.97	125	64	P	H
		11380	39.91	-14.09	54	45.68	38.48	13.72	57.97	125	64	A	H
		17070	55.34	-12.96	68.3	54.21	41.23	16.57	56.67	100	85	P	H
		11380	49.47	-24.53	74	55.24	38.48	13.72	57.97	100	52	P	V
		11380	39.57	-14.43	54	45.34	38.48	13.72	57.97	100	52	A	V
		17070	56.75	-11.55	68.3	55.62	41.23	16.57	56.67	100	65	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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)
5GHz 802.11ac VHT80 LF		90.14	25.01	-18.49	43.5	45.15	13.92	1.12	35.18	-	-	P	H
		196.84	26.15	-17.35	43.5	42.88	16.51	1.86	35.1	-	-	P	H
		309.36	26.4	-19.6	46	38.97	19.93	2.4	34.9	-	-	P	H
		317.12	26.56	-19.44	46	38.88	20.15	2.43	34.9	-	-	P	H
		581.93	24.65	-21.35	46	30.34	25.43	3.42	34.54	-	-	P	H
		828.31	26.93	-19.07	46	28.8	28.42	4.01	34.3	-	-	P	H
		36.79	26.41	-13.59	40	41.42	19.38	0.61	35	-	-	P	V
		94.02	26.37	-17.13	43.5	46.42	13.98	1.16	35.19	-	-	P	V
		196.84	27.89	-15.61	43.5	44.62	16.51	1.86	35.1	-	-	P	V
		325.85	26.38	-19.62	46	38.39	20.44	2.45	34.9	-	-	P	V
		724.52	24.93	-21.07	46	28.39	27.21	3.78	34.45	-	-	P	V
		923.37	28.29	-17.71	46	28.79	29.5	4.25	34.25	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Co-location:

802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location

WIFI 802.11ac80 CH58 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location		5091	53.33	-20.67	74	39.75	34.38	9.7	30.5	201	88	P	H
		5107.45	42.5	-11.5	54	28.91	34.39	9.7	30.5	201	88	A	H
	*	5290	97.96	-	-	84.1	34.53	9.83	30.5	201	88	P	H
	*	5290	91.45	-	-	77.59	34.53	9.83	30.5	201	88	A	H
		5350.08	56.14	-17.86	74	42.22	34.58	9.84	30.5	201	88	P	H
		5350.32	47.13	-6.87	54	33.21	34.58	9.84	30.5	201	88	A	H
		5053.9	53.13	-20.87	74	39.63	34.34	9.66	30.5	207	118	P	V
		5149.45	43.45	-10.55	54	29.79	34.42	9.74	30.5	207	118	A	V
	*	5290	103.62	-	-	89.76	34.53	9.83	30.5	207	118	P	V
	*	5290	96.25	-	-	82.39	34.53	9.83	30.5	207	118	A	V
		5354.16	62.81	-11.19	74	48.89	34.58	9.84	30.5	207	118	P	V
		5350.32	50.89	-3.11	54	36.97	34.58	9.84	30.5	207	118	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

BLE CH39 (Band Edge @ 3m)

BLE Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location		2480	111.78	-	-	104.42	32.39	6.53	31.56	254	167	P	H
		2480	108.41	-	-	101.05	32.39	6.53	31.56	254	167	A	H
	*	2483.52	59.5	-14.5	74	52.14	32.39	6.53	31.56	254	167	P	H
	*	2483.52	50.96	-3.04	54	43.6	32.39	6.53	31.56	254	167	A	H
		2480	104.4	-	-	97.04	32.39	6.53	31.56	342	189	P	V
		2480	102.51	-	-	95.15	32.39	6.53	31.56	342	189	A	V
	*	2483.92	55.17	-18.83	74	47.81	32.39	6.53	31.56	342	189	P	V
	*	2483.52	46.49	-7.51	54	39.13	32.39	6.53	31.56	342	189	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Zigbee CH25 (Band Edge @ 3m)

Zigbee Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location	*	2475	100.96	-	-	93.6	32.39	6.53	31.56	273	282	P	H
	*	2475	99.08	-	-	91.72	32.39	6.53	31.56	273	282	A	H
		2496.68	54.04	-19.96	74	46.61	32.4	6.53	31.5	273	282	P	H
		2483.52	43.61	-10.39	54	36.25	32.39	6.53	31.56	273	282	A	H
	*	2475	110.59	-	-	103.23	32.39	6.53	31.56	134	32	P	V
	*	2475	108.61	-	-	101.25	32.39	6.53	31.56	134	32	A	V
		2483.76	58.38	-15.62	74	51.02	32.39	6.53	31.56	134	32	P	V
		2483.52	49.16	-4.84	54	41.8	32.39	6.53	31.56	134	32	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location

(Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac80 CH58&BLE CH39& Zigbee CH25 Co-location		4960	41.62	-32.38	74	55.61	34.32	9.59	57.9	122	163	P	H
		4960	35.89	-18.11	54	49.88	34.32	9.59	57.9	122	163	A	H
		5149	42.07	-31.93	74	55.72	34.42	9.74	57.81	142	156	P	H
		5149	36.21	-17.79	54	49.86	34.42	9.74	57.81	142	156	A	H
		7443	44.24	-29.76	74	56.87	35.94	11.29	59.86	125	288	P	H
		7443	37.48	-16.52	54	50.11	35.94	11.29	59.86	125	288	A	H
		7730.5	43.92	-30.08	74	55.76	36.09	11.7	59.63	133	268	P	H
		7730.5	38.15	-15.85	54	49.99	36.09	11.7	59.63	133	268	A	H
		10580	47.38	-20.92	68.3	56.05	37.77	13.58	60.02	105	266	P	H
		15870	52.14	-21.86	74	55.13	40.66	15.61	59.26	147	209	P	H
		15870	42.99	-11.01	54	45.98	40.66	15.61	59.26	147	209	A	H
		4960	42.91	-31.09	74	56.9	34.32	9.59	57.9	100	147	P	V
		4960	36.41	-17.59	54	50.4	34.32	9.59	57.9	100	147	A	V
		5149	41.7	-32.3	74	55.35	34.42	9.74	57.81	100	182	P	V
		5149	36.15	-17.85	54	49.8	34.42	9.74	57.81	100	182	A	V
		7443	43.09	-30.91	74	55.72	35.94	11.29	59.86	105	201	P	V
		7443	37.68	-16.32	54	50.31	35.94	11.29	59.86	105	201	A	V
		7730.5	44.72	-29.28	74	56.56	36.09	11.7	59.63	112	290	P	V
		7730.5	39.16	-14.84	54	51	36.09	11.7	59.63	112	290	A	V
		10580	47.43	-20.87	68.3	56.1	37.77	13.58	60.02	100	96	P	V
		15870	53.51	-20.49	74	56.5	40.66	15.61	59.26	100	120	P	V
		15870	43.31	-10.69	54	46.3	40.66	15.61	59.26	100	120	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin** 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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

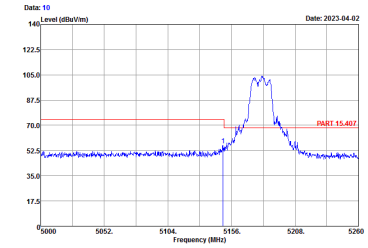
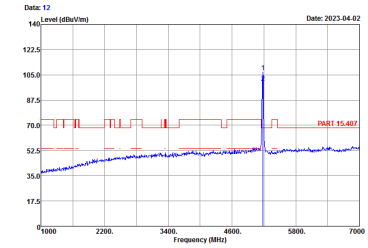
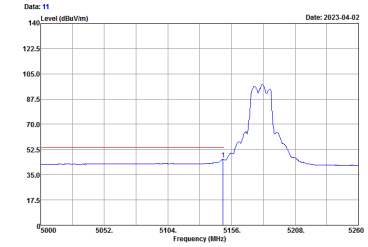
Appendix D. Radiated Spurious Emission

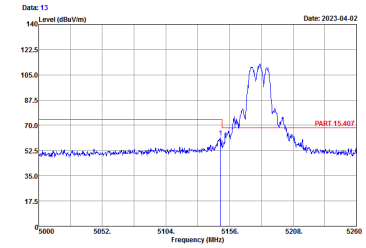
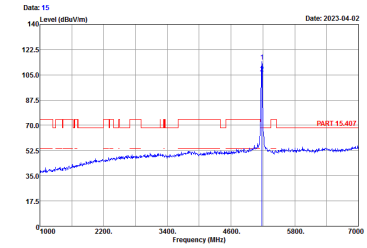
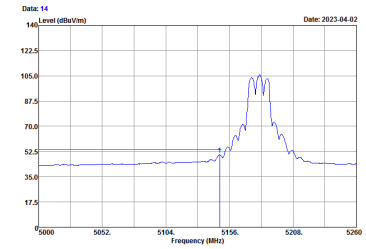
Note symbol

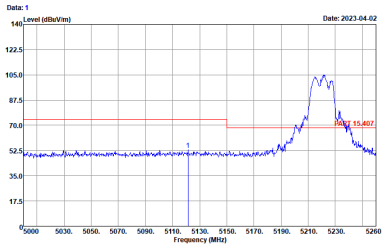
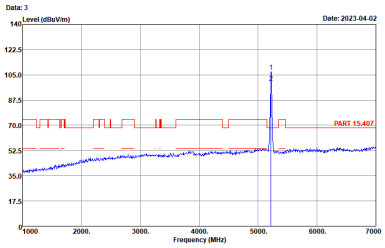
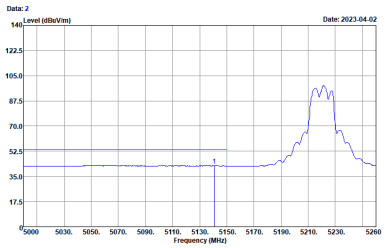
-L	**Low channel location**
-R	**High channel location**

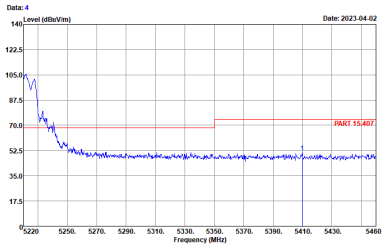
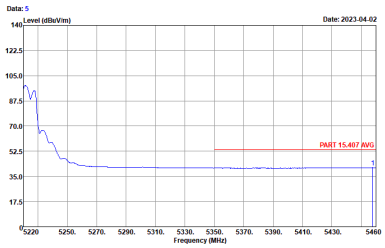
U-NII-1 - 5150~5250MHz

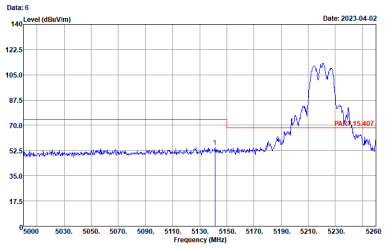
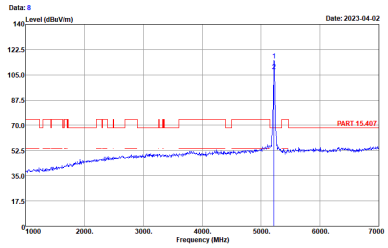
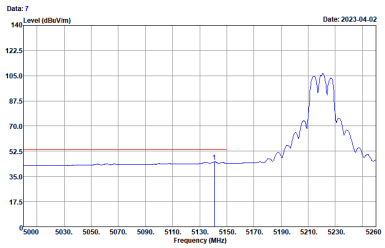
WIFI 802.11a (Band Edge @ 3m)

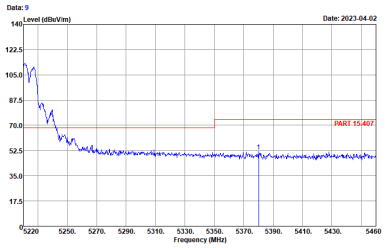
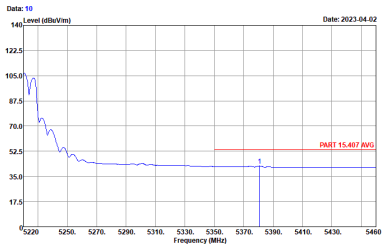
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 5149.24 56.03 -17.97 74.00 42.37 34.42 9.74 30.50 249 37 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5180.00 106.76 38.46 68.30 93.03 34.45 9.78 30.50 249 37 Peak 2 5180.00 99.29 ------ ------ 85.56 34.45 9.78 30.50 249 37 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 5149.24 45.57 -8.43 54.00 31.91 34.42 9.74 30.50 249 37 Average	Left blank

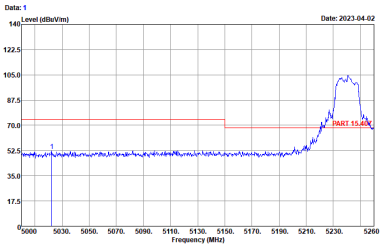
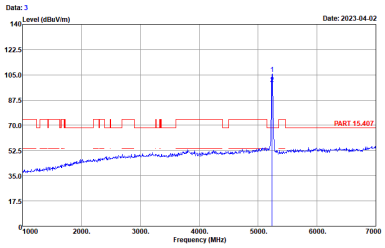
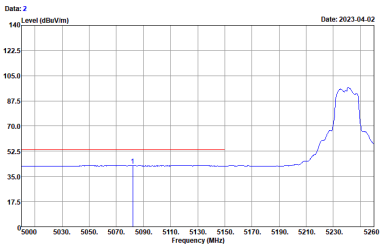
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 5148.72 61.71 -12.29 74.00 48.05 34.42 9.74 30.50 220 130 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5180.00 114.45 46.15 68.30 100.72 34.45 9.78 30.50 220 130 Peak 2 5180.00 106.15 ------ ------ 92.46 34.45 9.78 30.50 220 130 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 5147.94 50.21 -3.79 54.00 36.55 34.42 9.74 30.50 220 130 Average	Left blank

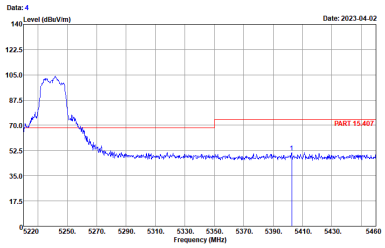
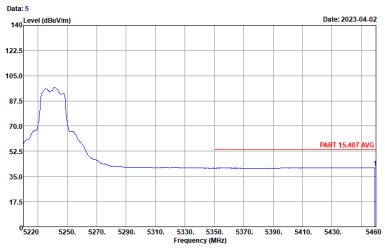
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5121.42 52.90 -21.10 74.00 39.27 34.39 9.74 30.50 241 34 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5220.00 107.09 38.79 68.30 93.30 34.47 9.82 30.50 241 34 Peak 2 5220.00 99.28 ------ ------ 85.49 34.47 9.82 30.50 241 34 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 2 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5140.92 42.54 -11.46 54.00 28.88 34.42 9.74 30.50 241 34 Average	Left blank

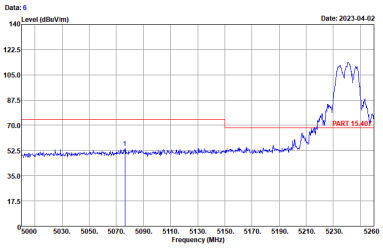
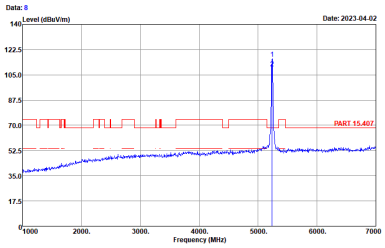
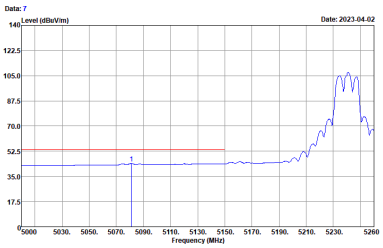
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5409.84 51.13 -22.87 74.00 37.17 34.62 9.84 30.50 241 34 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5457.84 41.15 -12.85 54.00 27.11 34.66 9.88 30.50 241 34 Average	Left blank

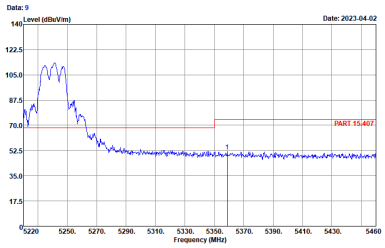
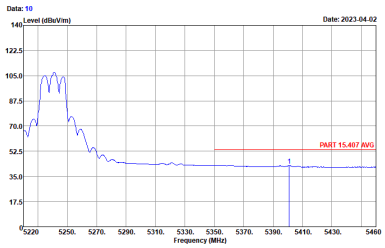
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5141.18 55.06 -18.94 74.00 41.40 34.42 9.74 30.50 224 124 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5220.00 115.10 46.80 68.30 101.31 34.47 9.82 30.50 224 124 Peak 2 5220.00 107.65 ------ ------ 93.86 34.47 9.82 30.50 224 124 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5140.92 45.32 -8.68 54.00 31.66 34.42 9.74 30.50 224 124 Average	Left blank

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Over Limit Read Antenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5380.00 51.75 -22.25 74.00 37.80 34.61 9.84 30.50 224 124 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 2 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Over Limit Read Antenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5380.80 42.32 -11.68 54.00 28.37 34.61 9.84 30.50 224 124 Average	Left blank

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5022.36 52.24 -21.76 74.00 38.79 34.33 9.62 30.50 241 37 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5240.00 105.69 37.39 68.30 91.88 34.49 9.82 30.50 241 37 Peak 2 5240.00 98.51 ------ ------ 84.70 34.49 9.82 30.50 241 37 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 3 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5082.16 42.52 -11.48 54.00 28.95 34.37 9.70 30.50 241 37 Average	Left blank

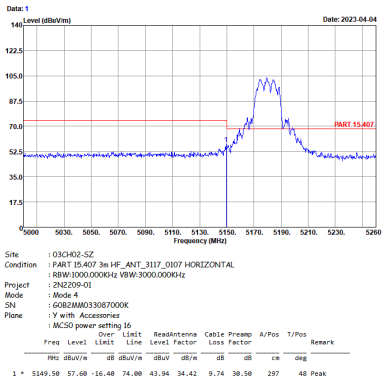
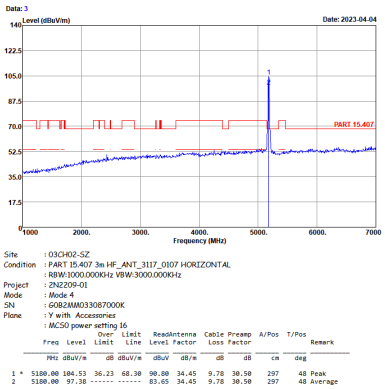
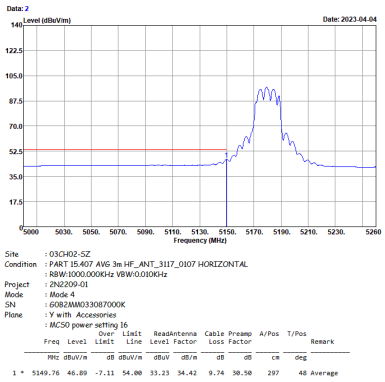
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 608ZMM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5402.64 51.24 -22.76 74.00 37.28 34.62 9.84 30.50 241 37 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 3 SN : 608ZMM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5459.28 41.13 -12.87 54.00 27.09 34.66 9.88 30.50 241 37 Average	Left blank

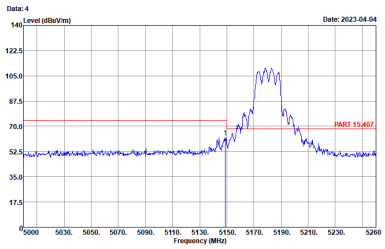
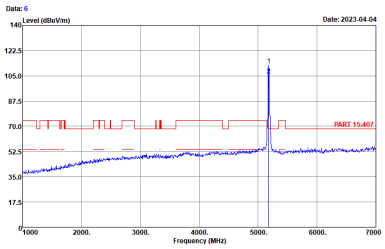
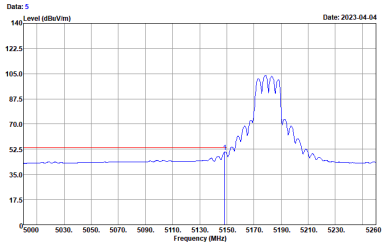
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5076.44 54.07 -19.93 74.00 40.50 34.37 9.70 30.50 224 115 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5240.00 116.02 47.72 68.30 102.21 34.49 9.82 30.50 224 115 Peak 2 5240.00 109.41 ------ ------ 95.60 34.49 9.82 30.50 224 115 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 3 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5081.12 44.11 -9.89 54.00 30.54 34.37 9.70 30.50 224 115 Average	Left blank

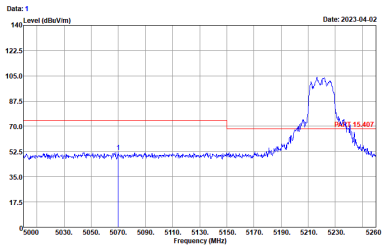
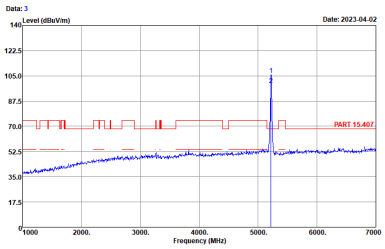
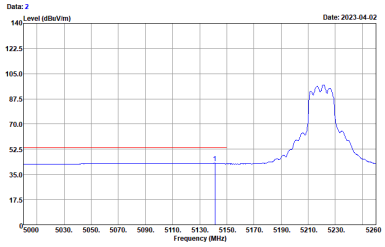
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 3 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5358.72 51.96 -22.04 74.00 38.04 34.58 9.84 30.50 224 115 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 3 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5400.96 42.56 -11.44 54.00 28.60 34.62 9.84 30.50 224 115 Average	Left blank

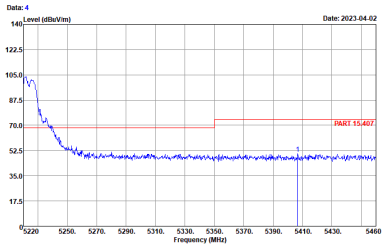
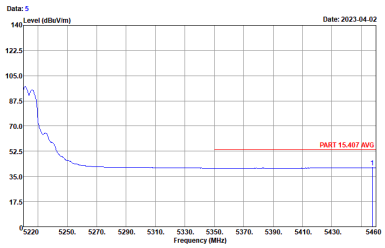
U-NII-1 5150~5250MHz

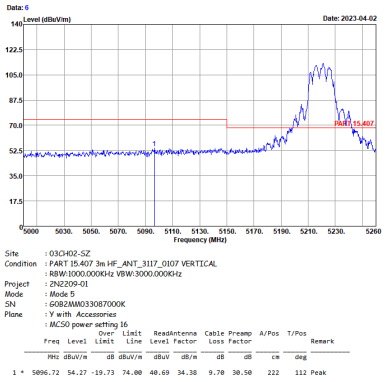
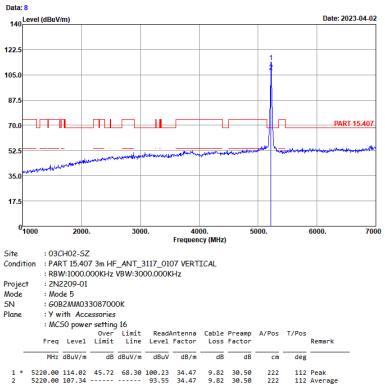
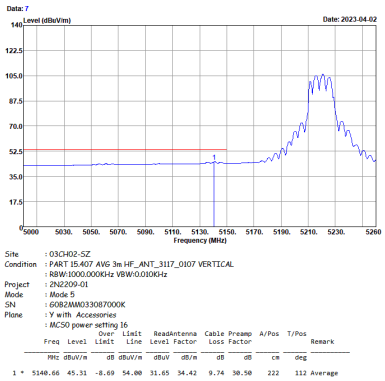
WIFI 802.11n HT20 (Band Edge @ 3m)

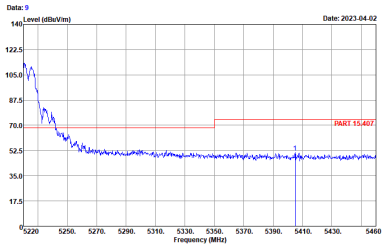
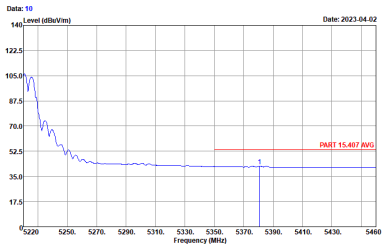
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

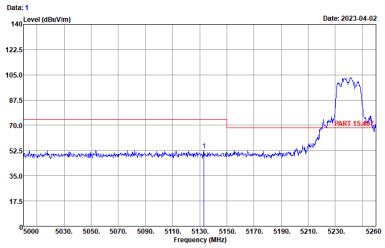
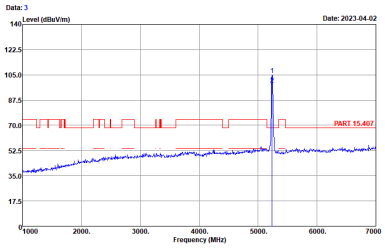
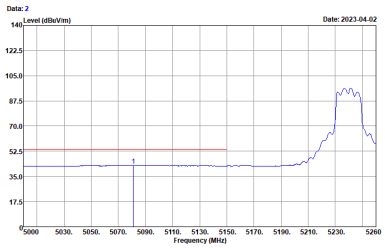
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2Z09-01 Mode : Mode 4 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5148.98 62.51 -11.49 74.00 48.85 34.42 9.74 30.50 100 72 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2Z09-01 Mode : Mode 4 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5180.00 112.23 43.93 68.30 98.50 34.45 9.78 30.50 100 72 Peak 2 5180.00 105.35 ------ ------ 91.62 34.45 9.78 30.50 100 72 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2Z09-01 Mode : Mode 4 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5148.46 50.63 -3.37 54.00 36.97 34.42 9.74 30.50 100 72 Average	Left blank

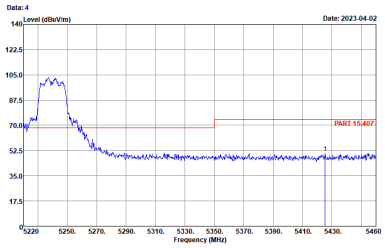
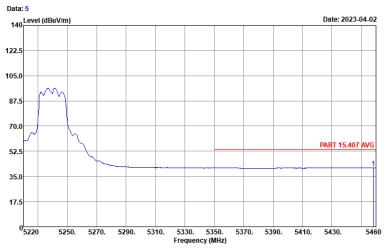
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 5 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5069.94 52.34 -21.66 74.00 38.83 34.35 9.66 30.50 242 38 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 5 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5220.00 105.73 37.43 68.30 91.94 34.47 9.82 30.50 242 38 Peak 2 5220.00 98.58 ------ ------ 84.79 34.47 9.82 30.50 242 38 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 5 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5141.18 42.72 -11.28 54.00 29.06 34.42 9.74 30.50 242 38 Average	Left blank

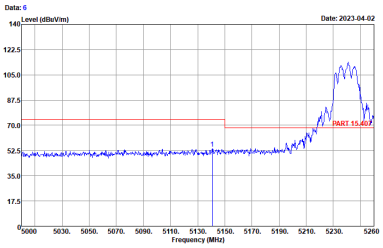
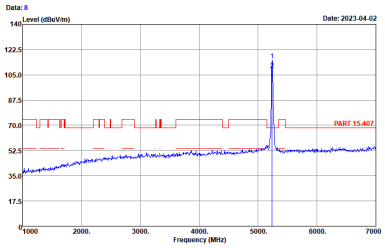
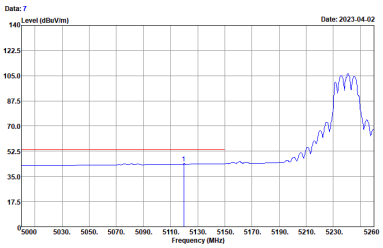
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 5 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5406.72 50.14 -23.86 74.00 36.18 34.62 9.84 30.50 242 38 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 5 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5457.60 41.14 -12.86 54.00 27.10 34.66 9.88 30.50 242 38 Average	Left blank

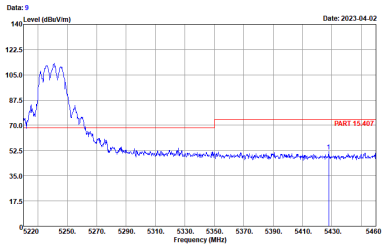
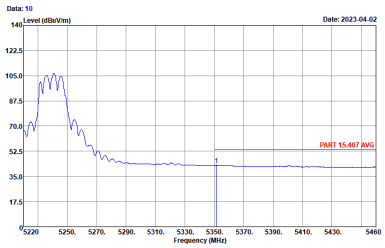
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 5 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5405.04 50.92 -23.08 74.00 36.96 34.62 9.84 30.50 222 112 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 5 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5380.80 42.27 -11.73 54.00 28.32 34.61 9.84 30.50 222 112 Average	Left blank

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 6 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5133.12 52.78 -21.22 74.00 39.13 34.41 9.74 30.50 230 38 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 6 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5240.00 104.95 36.65 68.30 91.14 34.49 9.82 30.50 230 38 Peak 2 5240.00 98.34 ------ ------ 84.53 34.49 9.82 30.50 230 38 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 6 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5081.12 42.65 -11.35 54.00 29.08 34.37 9.70 30.50 230 38 Average	Left blank

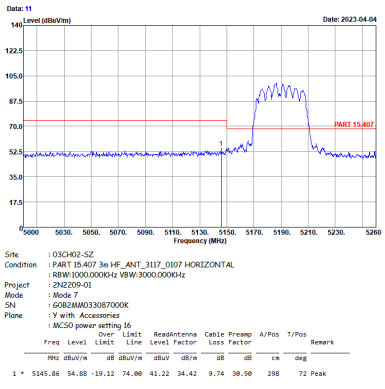
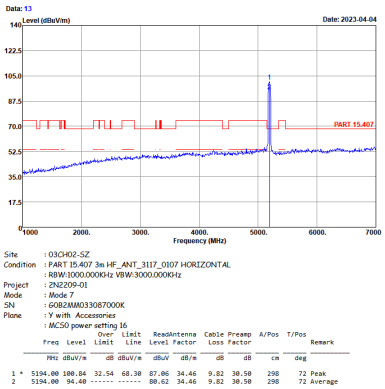
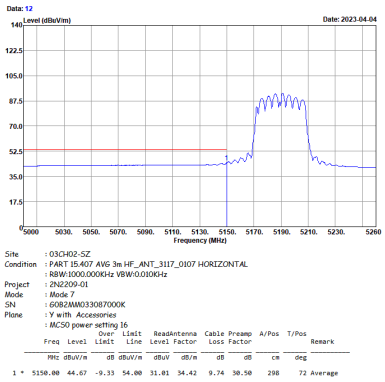
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5425.44 50.82 -23.18 74.00 36.85 34.63 9.84 30.50 230 38 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5458.32 41.14 -12.86 54.00 27.10 34.66 9.88 30.50 230 38 Average	Left blank

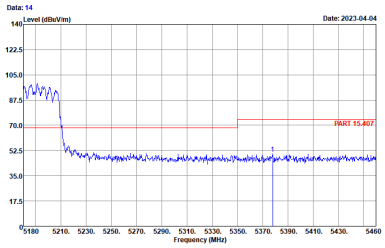
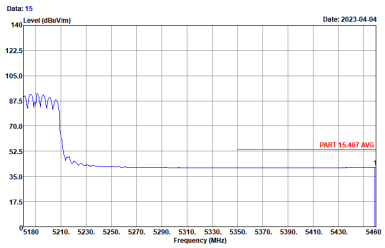
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5140.92 53.62 -20.38 74.00 39.96 34.42 9.74 30.50 226 116 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5240.00 115.08 46.78 68.30 101.27 34.49 9.82 30.50 226 116 Peak 2 5240.00 108.50 ------ ------ 94.69 34.49 9.82 30.50 226 116 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5119.86 43.99 -10.01 54.00 30.36 34.39 9.74 30.50 226 116 Average	Left blank

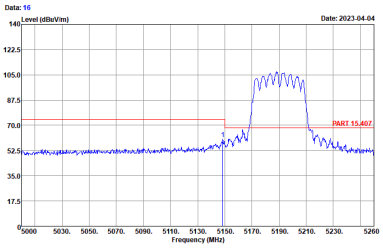
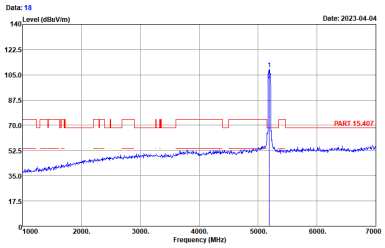
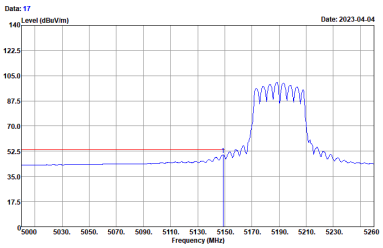
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5427.84 51.75 -22.25 74.00 37.74 34.63 9.88 30.50 226 116 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 6 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5351.28 42.74 -11.26 54.00 28.82 34.58 9.84 30.50 226 116 Average	Left blank

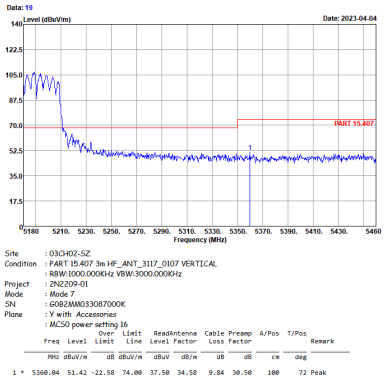
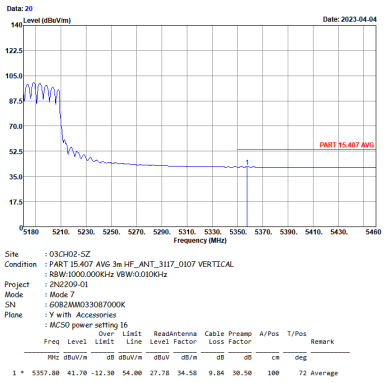
U-NII-1 5150~5250MHz

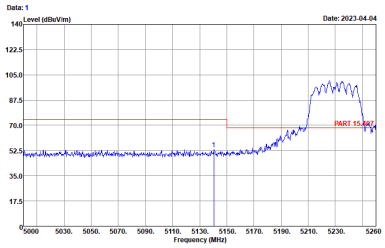
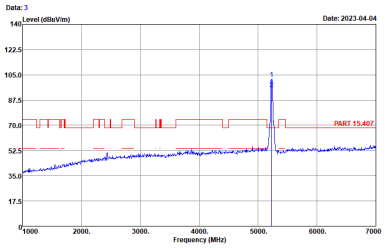
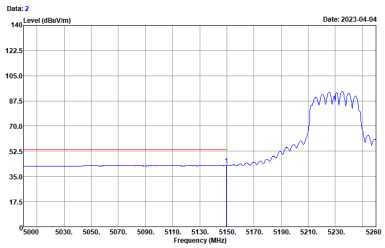
WIFI 802.11n HT40 (Band Edge @ 3m)

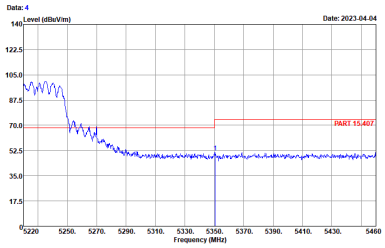
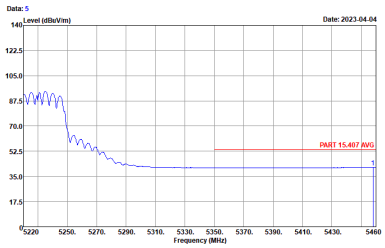
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

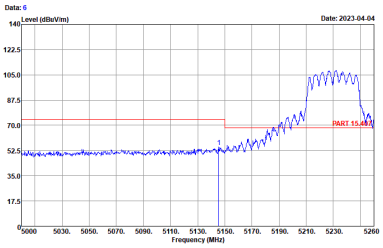
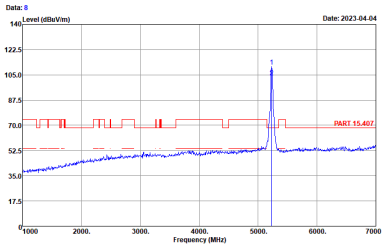
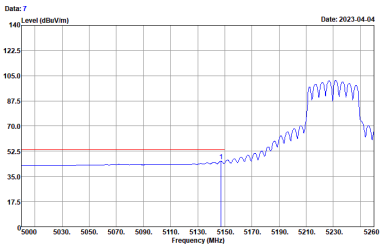
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5377.96 50.31 -23.69 74.00 36.36 34.61 9.84 30.50 298 72 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5459.16 41.35 -12.65 54.00 27.31 34.66 9.88 30.50 298 72 Average	Left blank

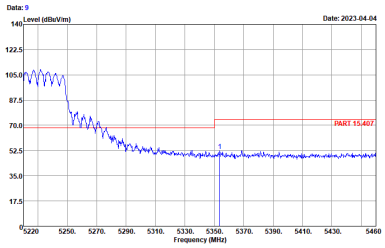
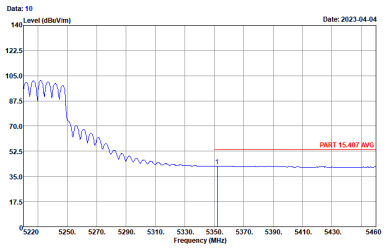
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5148.46 60.55 -13.45 74.00 46.89 34.42 9.74 30.50 100 72 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5190.00 108.65 40.35 68.30 94.92 34.45 9.78 30.50 100 72 Peak 2 5190.00 101.38 ------ ------ 87.65 34.45 9.78 30.50 100 72 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5148.72 49.89 -4.11 54.00 36.23 34.42 9.74 30.50 100 72 Average	Left blank

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

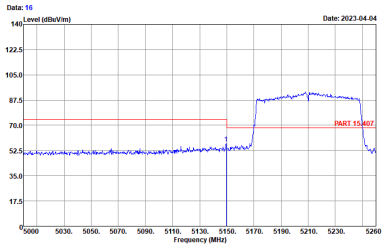
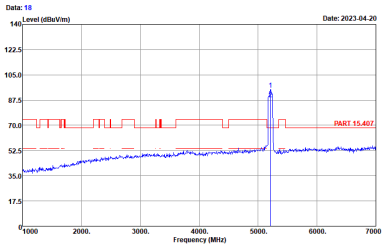
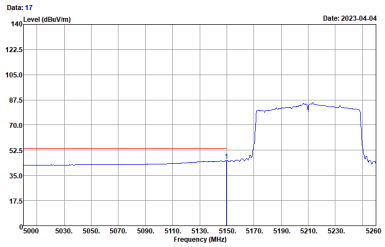
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 8 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5140.40 53.34 -20.66 74.00 39.68 34.42 9.74 30.50 389 46 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 8 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5230.00 102.15 33.85 68.30 88.34 34.49 9.82 30.50 389 46 Peak 2 5230.00 95.07 ------ ------ 81.26 34.49 9.82 30.50 389 46 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 8 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5149.76 42.79 -11.21 54.00 29.13 34.42 9.74 30.50 389 46 Average	Left blank

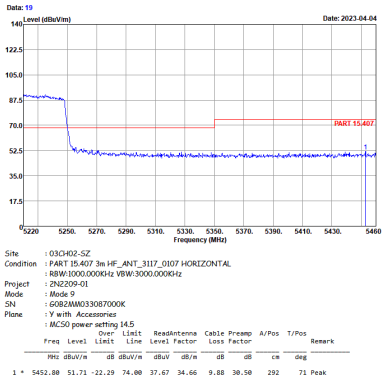
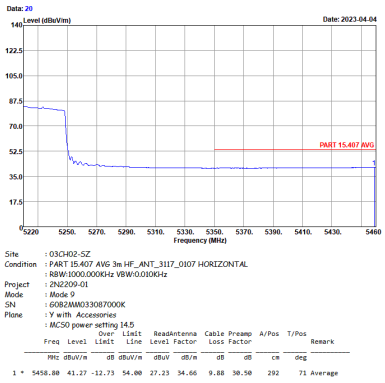
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.56 51.17 -22.83 74.00 37.25 34.58 9.84 30.50 389 46 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5458.08 41.36 -12.64 54.00 27.32 34.66 9.88 30.50 389 46 Average	Left blank

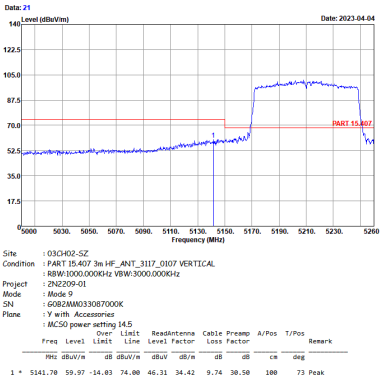
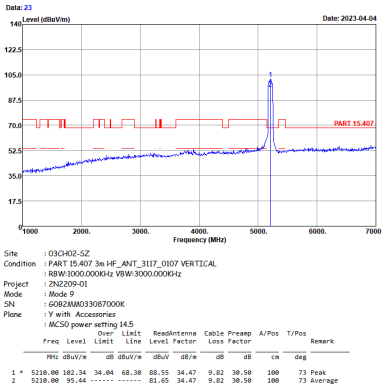
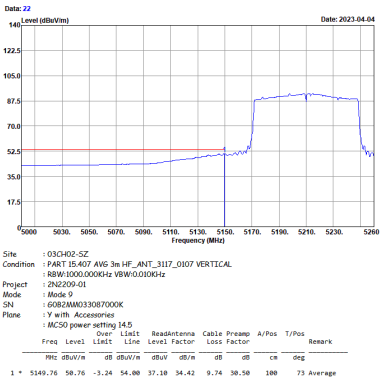
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5145.60 54.85 -19.15 74.00 41.19 34.42 9.74 30.50 103 124 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5230.00 110.64 42.34 68.30 96.83 34.49 9.82 30.50 103 124 Peak 2 5230.00 103.33 ------ ------ 89.52 34.49 9.82 30.50 103 124 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5147.16 45.56 -8.44 54.00 31.90 34.42 9.74 30.50 103 124 Average	Left blank

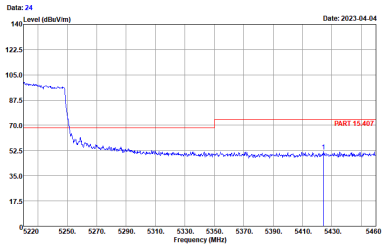
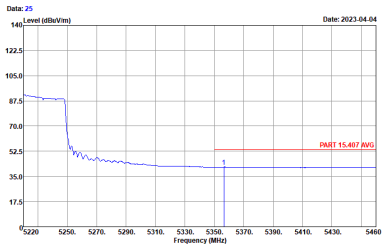
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5353.68 52.41 -21.59 74.00 38.49 34.58 9.84 30.50 103 124 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 8 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5352.00 42.18 -11.82 54.00 28.26 34.58 9.84 30.50 103 124 Average	Left blank

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

WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 9 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5149.50 57.16 -16.84 74.00 43.50 34.42 9.74 30.50 292 71 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 9 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5210.00 94.84 26.54 68.30 81.05 34.47 9.82 30.50 292 71 Peak 2 5210.00 88.05 ------ ------ 74.26 34.47 9.82 30.50 292 71 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 9 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5149.76 45.35 -8.65 54.00 31.69 34.42 9.74 30.50 292 71 Average	Left blank

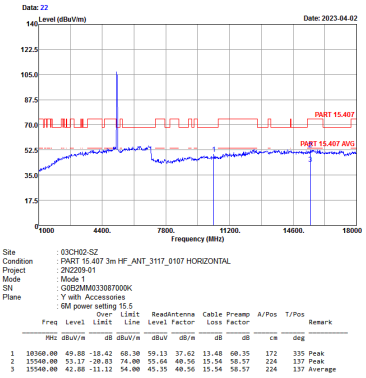
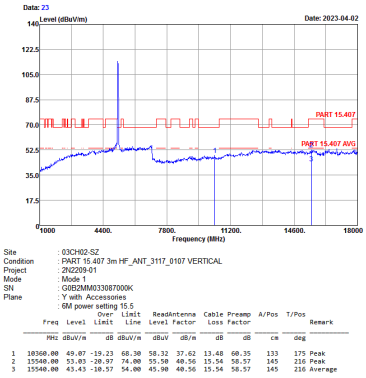
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

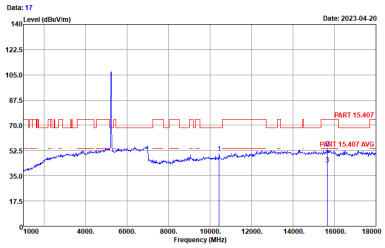
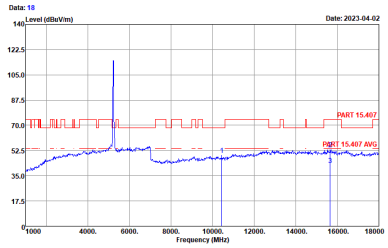
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

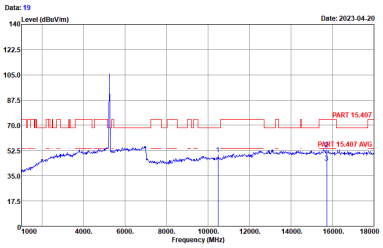
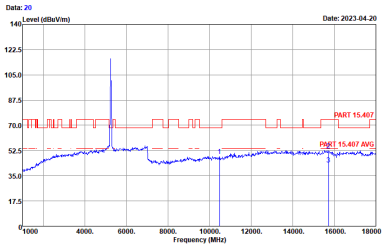
WIFI	U-NII-1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 9 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5424.24 51.74 -22.26 74.00 37.77 34.63 9.84 30.50 100 73 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 9 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5356.56 41.57 -12.43 54.00 27.65 34.58 9.84 30.50 100 73 Average	Left blank

U-NII-1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

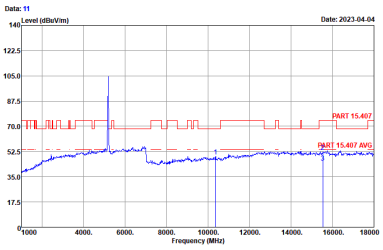
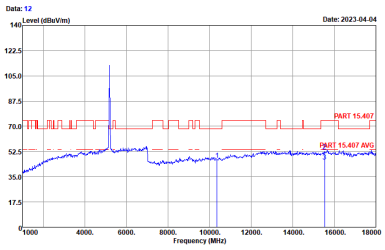
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 1 10360.00 49.88 -18.42 68.30 59.13 37.62 13.48 60.35 172 335 Peak 2 15540.00 53.17 -20.83 74.00 55.64 40.56 15.54 58.57 224 137 Peak 3 15540.00 42.88 -11.12 54.00 45.35 40.56 15.54 58.57 224 137 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 1 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 1 10360.00 49.07 -19.23 68.30 58.32 37.62 13.48 60.35 133 175 Peak 2 15540.00 53.03 -20.97 74.00 55.50 40.56 15.54 58.57 145 216 Peak 3 15540.00 43.43 -10.57 54.00 45.90 40.56 15.54 58.57 145 216 Average

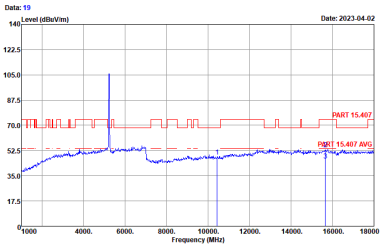
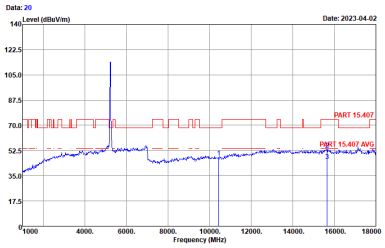
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 2 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 50.61 -17.69 68.30 59.81 37.66 13.51 60.37 175 346 Peak 2 15660.00 54.09 -19.91 74.00 56.74 40.60 15.56 58.81 100 215 Peak 3 * 15660.00 42.78 -11.22 54.00 45.43 40.60 15.56 58.81 100 215 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 2 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 49.54 -18.76 68.30 58.74 37.66 13.51 60.37 216 152 Peak 2 15660.00 53.39 -20.61 74.00 56.04 40.60 15.56 58.81 112 326 Peak 3 * 15660.00 42.62 -11.38 54.00 45.27 40.60 15.56 58.81 112 326 Average

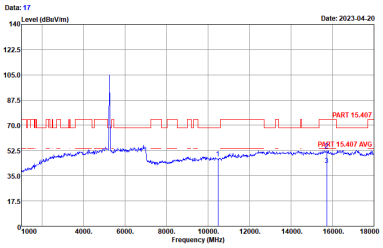
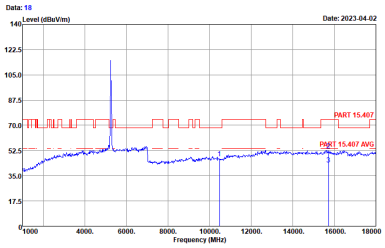
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 3 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 50.06 -18.24 68.30 59.23 37.69 13.53 60.39 178 342 Peak 2 15720.00 53.47 -20.53 74.00 56.23 40.62 15.57 58.95 162 274 Peak 3 * 15720.00 43.88 -10.12 54.00 46.64 40.62 15.57 58.95 162 274 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 3 SN : G0B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 48.84 -19.46 68.30 58.01 37.69 13.53 60.39 162 337 Peak 2 15720.00 52.83 -21.17 74.00 55.59 40.62 15.57 58.95 132 246 Peak 3 * 15720.00 42.98 -11.02 54.00 45.74 40.62 15.57 58.95 132 246 Average

U-NII-1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

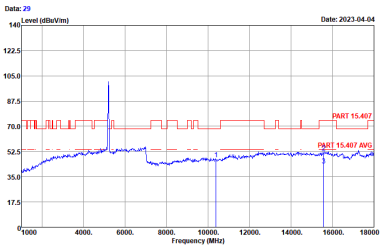
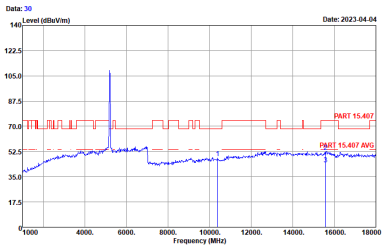
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 4 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10360.00 49.10 -19.20 68.30 58.35 37.62 13.48 60.35 106 320 Peak 2 15540.00 52.11 -21.89 74.00 54.58 40.56 15.54 58.57 172 291 Peak 3 * 15540.00 44.69 -9.31 54.00 47.16 40.56 15.54 58.57 172 291 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 4 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10360.00 46.94 -21.36 68.30 56.19 37.62 13.48 60.35 133 264 Peak 2 15540.00 52.59 -21.41 74.00 55.06 40.56 15.54 58.57 162 89 Peak 3 * 15540.00 45.57 -8.43 54.00 48.04 40.56 15.54 58.57 162 89 Average

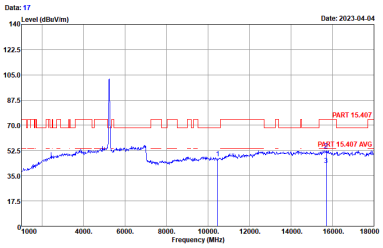
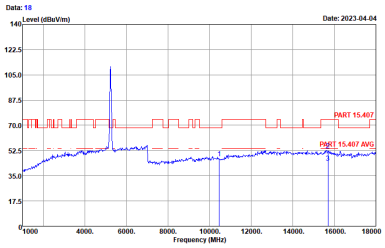
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 5 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit ReadAntenna Level Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 48.41 -19.89 68.30 57.61 37.66 13.51 60.37 120 324 Peak 2 15660.00 53.58 -20.42 74.00 56.23 40.60 15.56 58.81 100 284 Peak 3 * 15660.00 45.45 -8.55 54.00 48.10 40.60 15.56 58.81 100 284 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 5 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit ReadAntenna Level Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 47.76 -20.54 68.30 56.96 37.66 13.51 60.37 120 162 Peak 2 15660.00 53.87 -20.93 74.00 55.72 40.60 15.56 58.81 139 251 Peak 3 * 15660.00 45.21 -8.79 54.00 47.86 40.60 15.56 58.81 139 251 Average

WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 6 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 47.04 -21.26 68.30 56.21 37.69 13.53 60.39 165 42 Peak 2 15720.00 52.58 -21.42 74.00 55.34 40.62 15.57 58.95 124 97 Peak 3 * 15720.00 42.48 -11.52 54.00 45.24 40.62 15.57 58.95 124 97 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 6 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 47.07 -21.23 68.30 56.24 37.69 13.53 60.39 100 56 Peak 2 15720.00 52.50 -21.50 74.00 55.26 40.62 15.57 58.95 100 65 Peak 3 * 15720.00 42.82 -11.18 54.00 45.58 40.62 15.57 58.95 100 65 Average

U-NII-1 5150~5250MHz

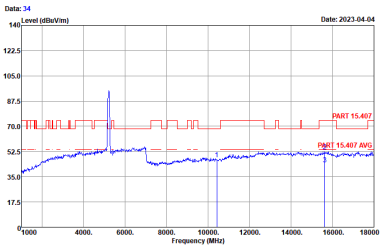
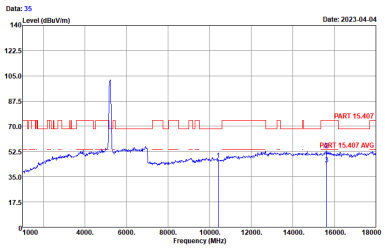
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line Level ReadAntenna Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10380.00 47.14 -21.16 68.30 56.36 37.63 13.50 60.35 100 75 Peak 2 15570.00 51.76 -22.24 74.00 54.28 40.57 15.55 58.64 100 65 Peak 3 * 15570.00 42.74 -11.26 54.00 45.26 40.57 15.55 58.64 100 65 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 7 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line Level ReadAntenna Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10380.00 47.91 -20.39 68.30 57.13 37.63 13.50 60.35 106 26 Peak 2 15570.00 52.12 -21.88 74.00 54.64 40.57 15.55 58.64 135 26 Peak 3 * 15570.00 43.83 -10.17 54.00 46.35 40.57 15.55 58.64 135 26 Average

WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 8 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10460.00 47.14 -21.16 68.30 56.32 37.67 13.53 60.38 100 65 Peak 2 15690.00 52.62 -21.38 74.00 55.32 40.61 15.57 58.88 100 65 Peak 3 * 15690.00 42.66 -11.34 54.00 45.36 40.61 15.57 58.88 100 65 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 8 SN : G0B2MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10460.00 47.06 -21.24 68.30 56.24 37.67 13.53 60.38 100 65 Peak 2 15690.00 52.54 -21.46 74.00 55.24 40.61 15.57 58.88 126 89 Peak 3 * 15690.00 43.98 -10.02 54.00 46.68 40.61 15.57 58.88 126 89 Average

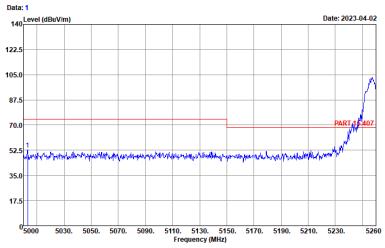
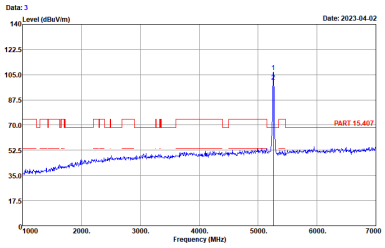
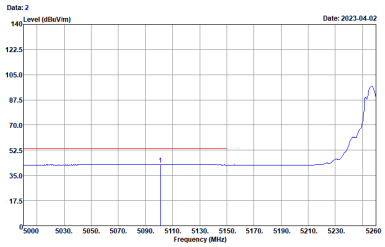
U-NII-1 5150~5250MHz

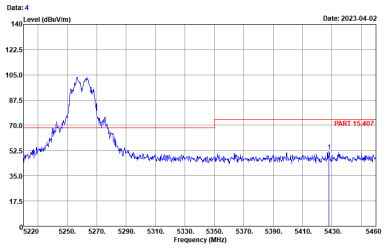
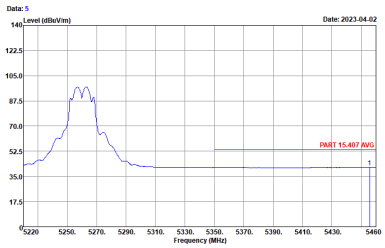
WIFI 802.11ac VHT80 (Harmonic @ 3m)

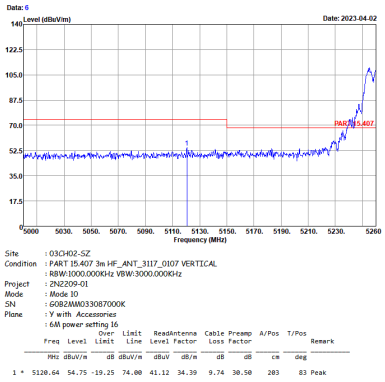
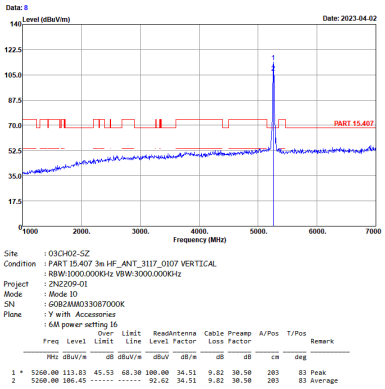
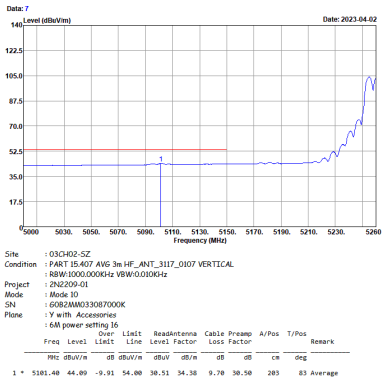
WIFI	U-NII-1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 9 SN : 6GB2MM0330087000K Plane : Y with Accessories : MC50 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10420.00 47.04 -21.26 68.30 56.25 37.65 13.51 60.37 100 352 Peak 2 15630.00 52.61 -21.39 74.00 55.24 40.59 15.56 58.78 100 62 Peak 3 * 15630.00 43.62 -10.38 54.00 46.25 40.59 15.56 58.78 100 62 Average	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 9 SN : 6GB2MM0330087000K Plane : Y with Accessories : MC50 power setting 14.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 10420.00 46.87 -21.43 68.30 56.08 37.65 13.51 60.37 100 24 Peak 2 15630.00 53.58 -20.42 74.00 56.21 40.59 15.56 58.78 105 79 Peak 3 * 15630.00 43.60 -10.40 54.00 46.23 40.59 15.56 58.78 105 79 Average

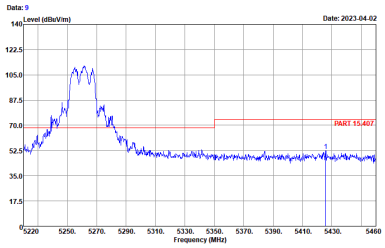
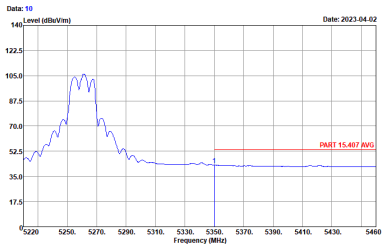
U-NII-2A - 5250~5350MHz

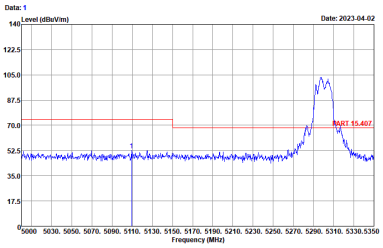
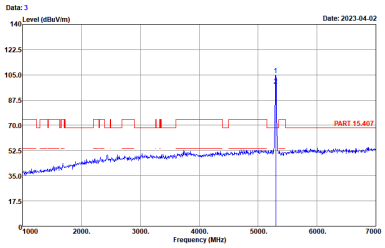
WIFI 802.11a (Band Edge @ 3m)

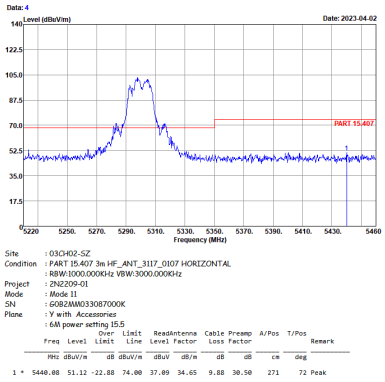
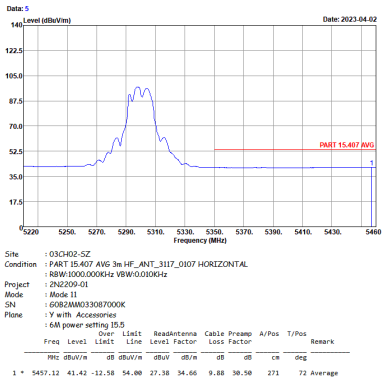
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 10 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5003.12 53.08 -20.92 74.00 39.66 34.30 9.62 30.50 362 45 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 10 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5260.00 106.97 38.67 68.30 93.14 34.51 9.82 30.50 362 45 Peak 2 5260.00 100.09 ------ ------ 86.26 34.51 9.82 30.50 362 45 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 10 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5101.14 42.56 -11.44 54.00 28.98 34.38 9.70 30.50 362 45 Average	Left blank

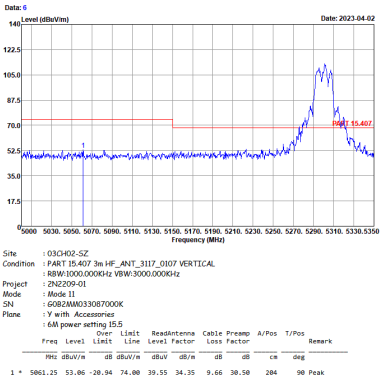
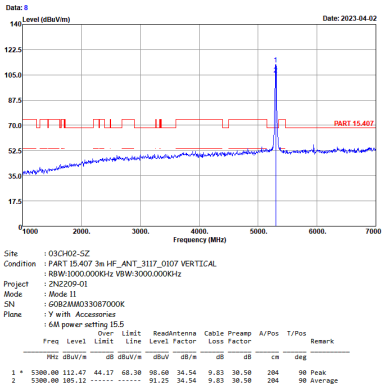
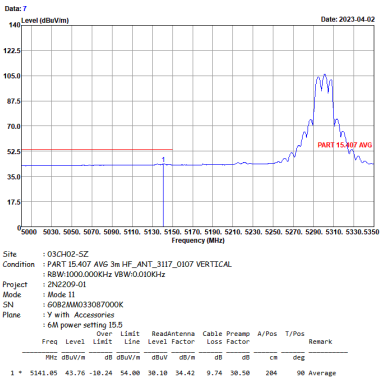
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 10 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5428.08 51.82 -22.18 74.00 37.81 34.63 9.88 30.50 362 45 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 10 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5455.68 41.35 -12.65 54.00 27.31 34.66 9.88 30.50 362 45 Average	Left blank

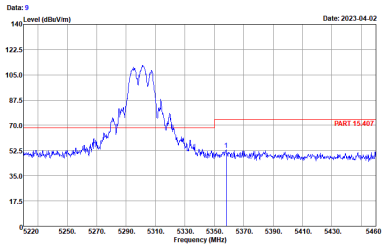
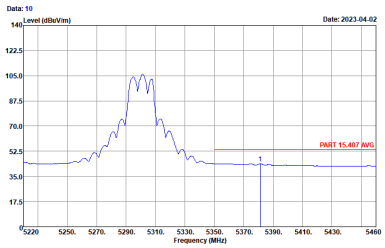
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

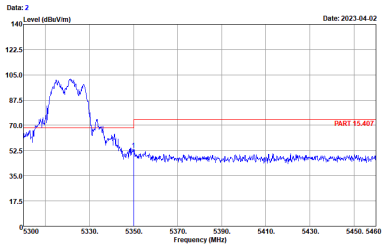
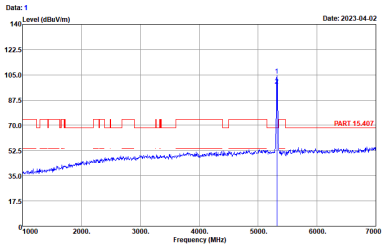
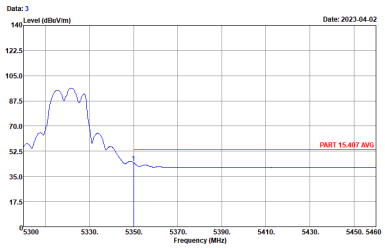
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 10 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5425.68 52.26 -21.74 74.00 38.29 34.63 9.84 30.50 203 83 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 10 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.08 42.77 -11.23 54.00 28.85 34.58 9.84 30.50 203 83 Average	Left blank

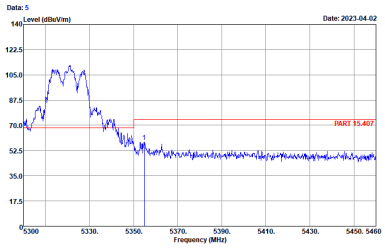
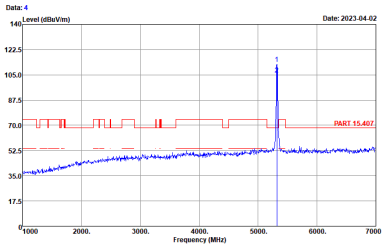
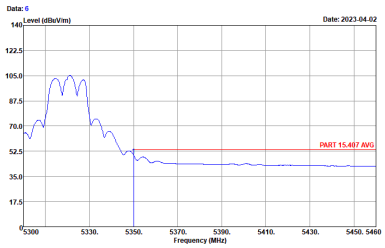
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 11 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5109.55 52.48 -21.52 74.00 38.89 34.39 9.70 30.50 271 72 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 11 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5300.00 104.77 36.47 68.30 90.90 34.54 9.83 30.50 271 72 Peak 2 5300.00 97.38 ------ ------ 83.51 34.54 9.83 30.50 271 72 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 11 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5137.20 42.53 -11.47 54.00 28.88 34.41 9.74 30.50 271 72 Average	Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

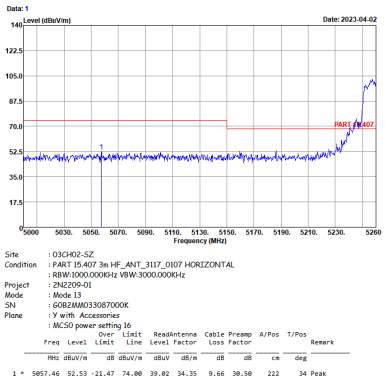
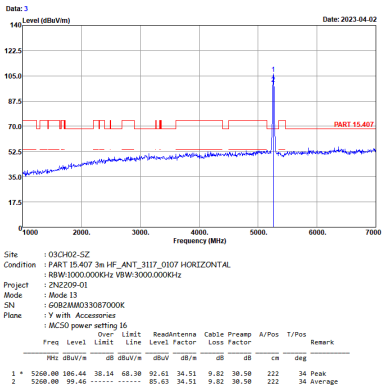
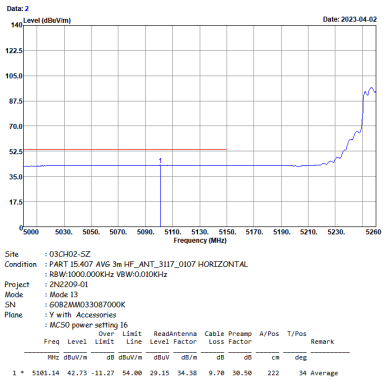
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 11 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5358.00 53.12 -20.88 74.00 39.20 34.58 9.84 30.50 204 90 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 11 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5381.28 43.89 -10.11 54.00 29.94 34.61 9.84 30.50 204 90 Average	Left blank

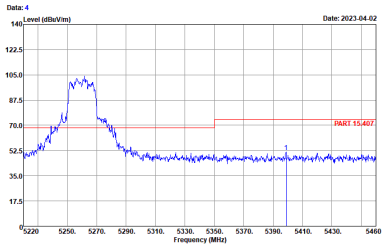
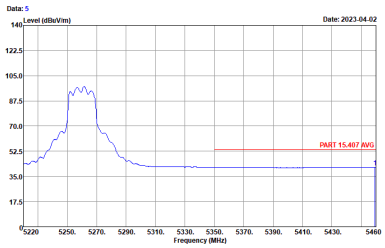
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 12 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.08 53.15 -20.85 74.00 39.23 34.58 9.84 30.50 100 43 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 12 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5320.00 104.66 36.36 68.30 90.78 34.55 9.83 30.50 100 43 Peak 2 5320.00 97.54 ------ ------ 83.66 34.55 9.83 30.50 100 43 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2NZ209-01 Mode : Mode 12 SN : 60B2MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.08 44.52 -9.48 54.00 30.60 34.58 9.84 30.50 100 43 Average	Left blank

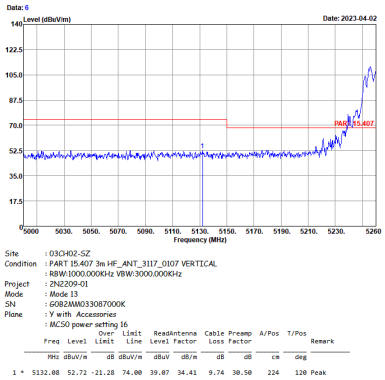
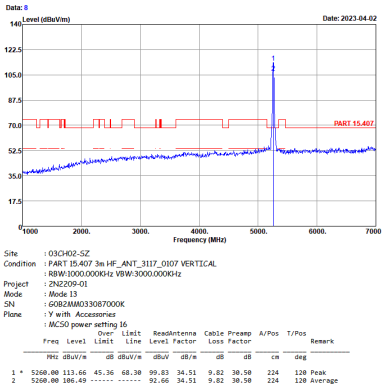
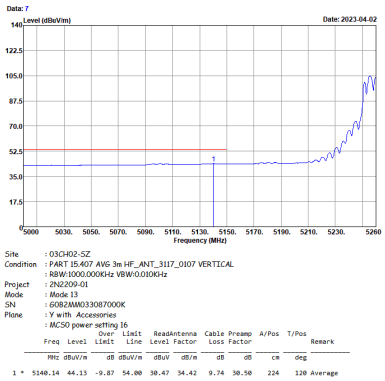
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 12 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5354.88 58.55 -15.45 74.00 44.63 34.58 9.84 30.50 212 107 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 12 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5320.00 112.86 44.56 68.30 98.98 34.55 9.83 30.50 212 107 Peak 2 5320.00 105.15 ------ ------ 91.27 34.55 9.83 30.50 212 107 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 12 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.08 49.62 -4.38 54.00 35.70 34.58 9.84 30.50 212 107 Average	Left blank

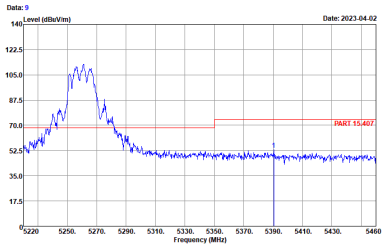
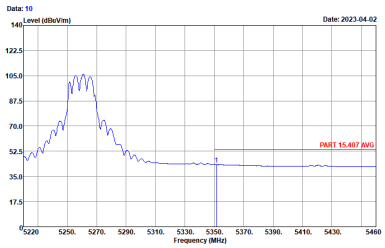
U-NII-2A 5250~5350MHz

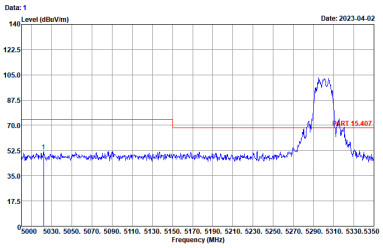
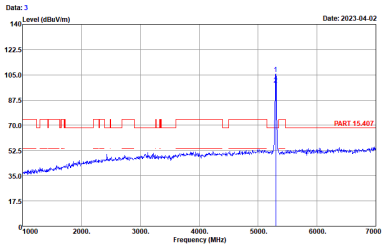
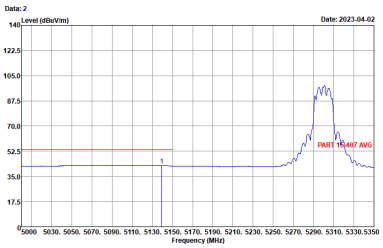
WIFI 802.11n HT20 (Band Edge @ 3m)

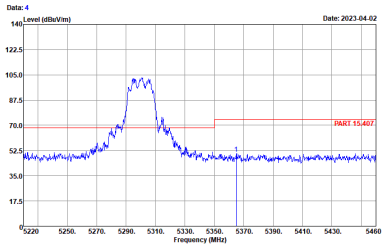
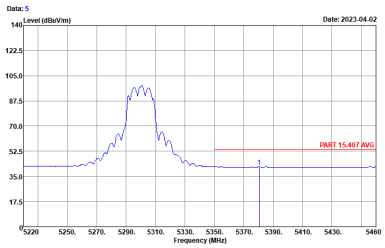
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		Left blank

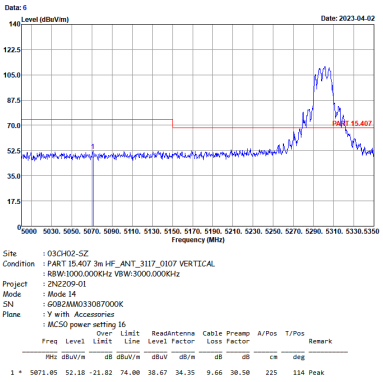
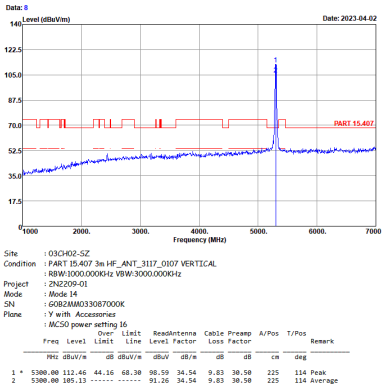
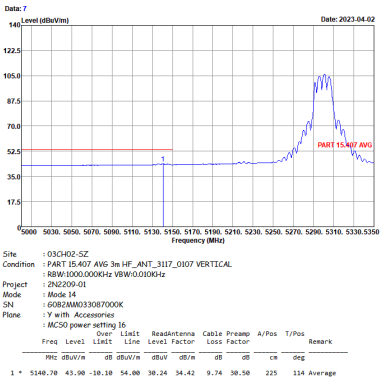
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 13 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5398.80 51.35 -22.65 74.00 37.39 34.62 9.84 30.50 222 34 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 13 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5459.28 41.43 -12.57 54.00 27.39 34.66 9.88 30.50 222 34 Average	Left blank

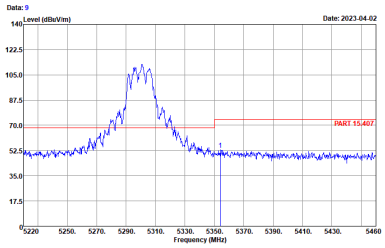
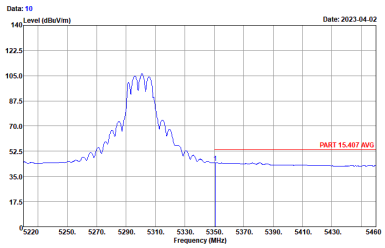
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

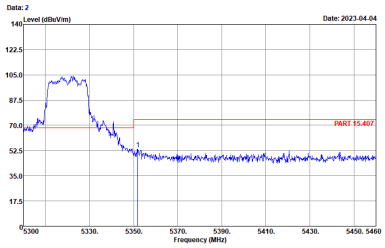
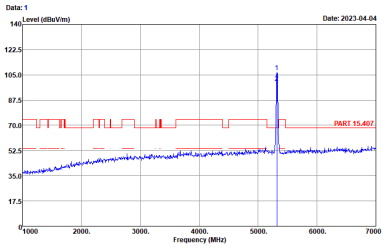
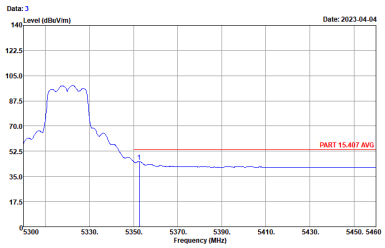
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 13 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5390.40 53.20 -20.80 74.00 39.25 34.61 9.84 30.50 224 120 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 13 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5351.52 43.16 -10.84 54.00 29.24 34.58 9.84 30.50 224 120 Average	Left blank

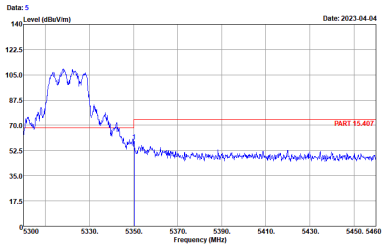
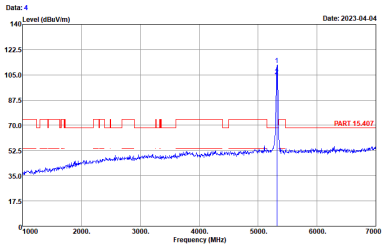
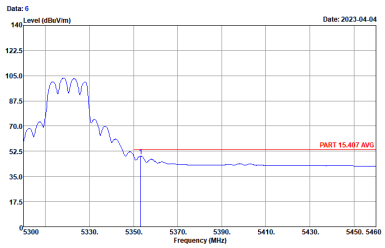
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5022.05 51.94 -22.06 74.00 38.49 34.33 9.62 30.50 202 91 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5300.00 105.66 37.36 68.30 91.79 34.54 9.83 30.50 202 91 Peak 2 5300.00 98.13 ------ ------ 84.26 34.54 9.83 30.50 202 91 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5139.30 42.48 -11.52 54.00 28.83 34.41 9.74 30.50 202 91 Average	Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0+1	Horizontal	Vertical
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5364.96 50.49 -23.51 74.00 36.56 34.59 9.84 30.50 202 91 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5380.56 41.67 -12.33 54.00 27.72 34.61 9.84 30.50 202 91 Average	Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

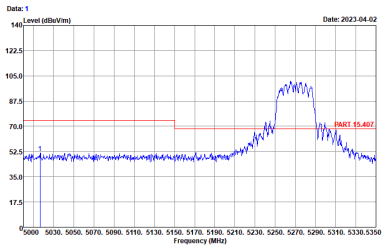
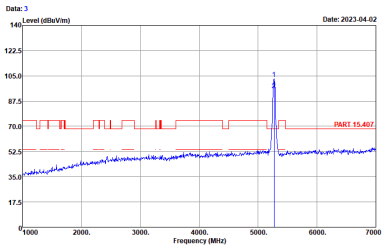
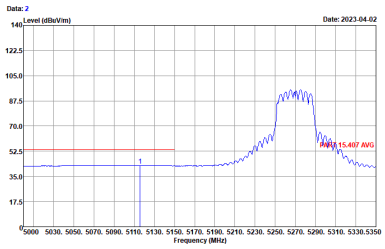
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5354.16 52.85 -21.15 74.00 38.93 34.58 9.84 30.50 225 114 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 14 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.80 44.63 -9.37 54.00 30.71 34.58 9.84 30.50 225 114 Average	Left blank

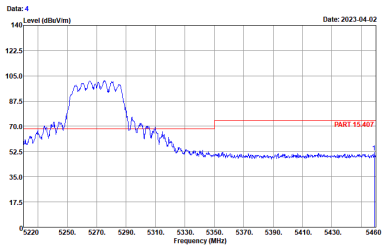
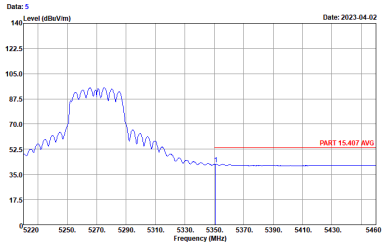
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 15 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5352.00 53.47 -20.53 74.00 39.55 34.58 9.84 30.50 218 83 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 15 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5320.00 106.76 38.46 68.30 92.88 34.55 9.83 30.50 218 83 Peak 2 5320.00 99.49 ------ ------ 85.61 34.55 9.83 30.50 218 83 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2NZ209-01 Mode : Mode 15 SN : 608ZMM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5352.64 45.39 -8.61 54.00 31.47 34.58 9.84 30.50 218 83 Average	Left blank

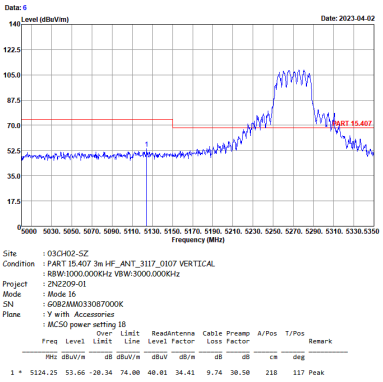
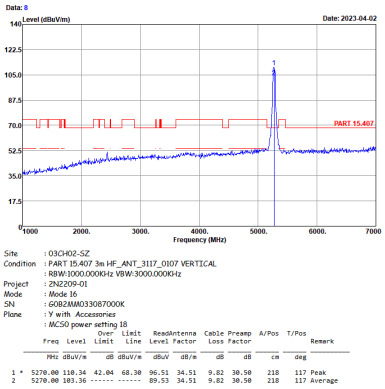
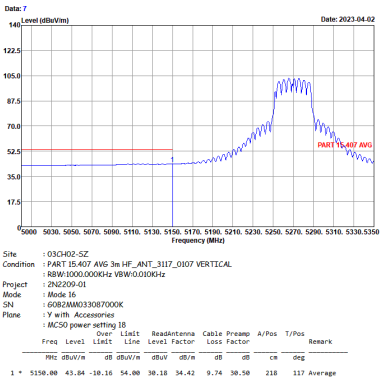
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 15 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.24 58.76 -15.24 74.00 44.84 34.58 9.84 30.50 100 72 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : ZN2209-01 Mode : Mode 15 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5320.00 111.73 43.43 68.30 97.85 34.55 9.83 30.50 100 72 Peak 2 5320.00 104.12 ------ ------ 90.24 34.55 9.83 30.50 100 72 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : ZN2209-01 Mode : Mode 15 SN : 6082MM033087000K Plane : Y with Accessories : MC50 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5353.28 49.20 -4.80 54.00 35.28 34.58 9.84 30.50 100 72 Average	Left blank

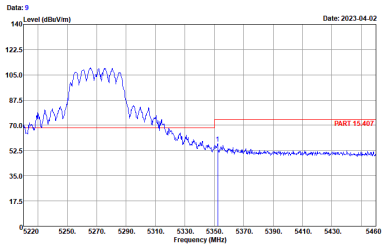
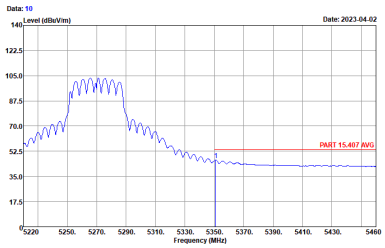
U-NII-2A 5250~5350MHz

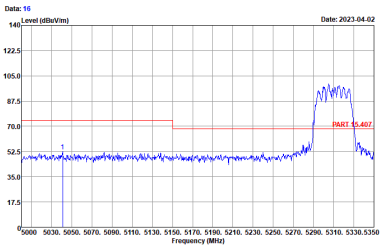
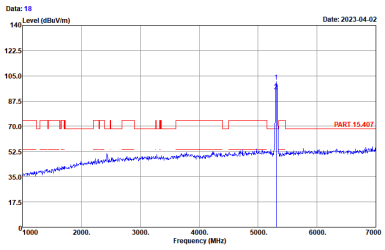
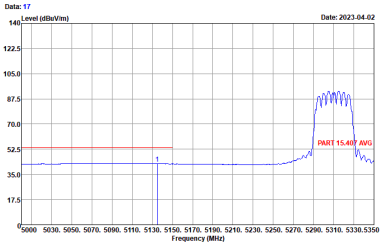
WIFI 802.11n HT40 (Band Edge @ 3m)

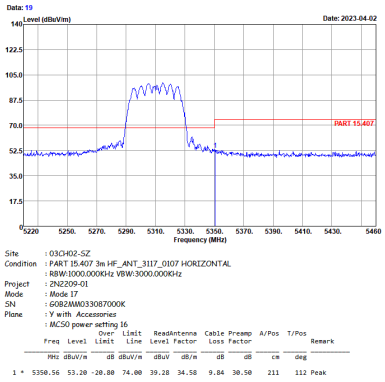
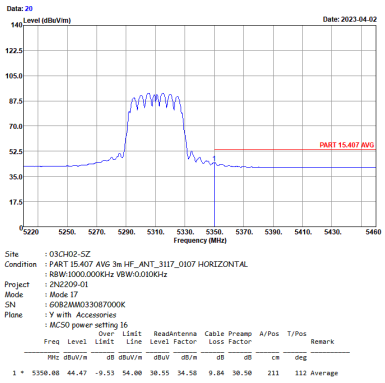
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 16 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5016.45 51.46 -22.54 74.00 38.03 34.31 9.62 30.50 212 98 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2NZ209-01 Mode : Mode 16 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5270.00 103.11 34.81 68.30 89.28 34.51 9.82 30.50 212 98 Peak 2 5270.00 95.10 ------ ------ 81.27 34.51 9.82 30.50 212 98 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2NZ209-01 Mode : Mode 16 SN : G0B2MM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5115.85 42.57 -11.43 54.00 28.94 34.59 9.74 30.50 212 98 Average	Left blank

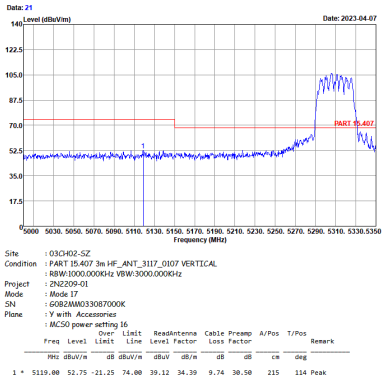
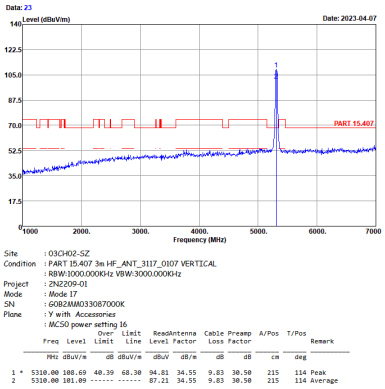
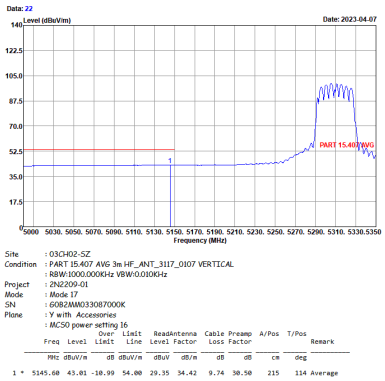
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 16 SN : 608ZMM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5458.80 51.84 -22.16 74.00 37.80 34.66 9.88 30.50 212 98 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 16 SN : 608ZMM033087000K Plane : Y with Accessories : MC50 power setting 18 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5351.04 42.23 -11.77 54.00 28.31 34.58 9.84 30.50 212 98 Average	Left blank

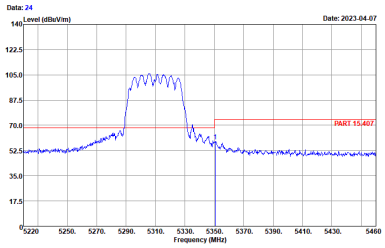
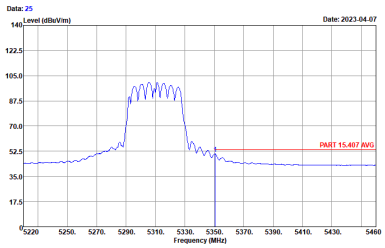
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
0+1	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
0+1	Vertical	Vertical
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 16 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5352.24 57.51 -16.49 74.00 43.59 34.58 9.84 30.50 218 117 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 16 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 18 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5351.04 46.41 -7.59 54.00 32.49 34.58 9.84 30.50 218 117 Average	Left blank

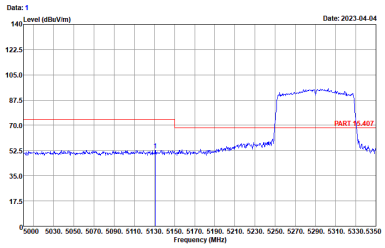
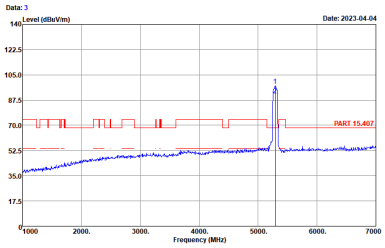
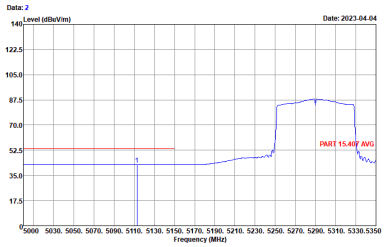
WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 17 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5040.95 52.65 -21.35 74.00 39.15 34.34 9.66 30.50 211 112 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 17 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5310.00 101.07 32.77 68.30 87.19 34.55 9.83 30.50 211 112 Peak 2 5310.00 94.49 ------ ------ 80.61 34.55 9.83 30.50 211 112 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 17 SN : 60B2MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Freq Level Over Limit Limit Line ReadAntenna Level Factor Cable Loss Factor Preamp Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5135.10 42.49 -11.51 54.00 28.84 34.41 9.74 30.50 211 112 Average	Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
0+1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
0+1	Vertical	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 17 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.80 58.97 -15.03 74.00 45.05 34.58 9.84 30.50 215 114 Peak	Left blank
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 VERTICAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 17 SN : 6082MM033087000K Plane : Y with Accessories : MCS0 power setting 16 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5350.56 50.78 -3.22 54.00 36.86 34.58 9.84 30.50 215 114 Average	Left blank

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

WIFI	U-NII-2A 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 18 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5131.25 52.70 -21.30 74.00 39.05 34.41 9.74 30.50 223 81 Peak	 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz Project : 2N2209-01 Mode : Mode 18 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5290.00 97.36 29.06 68.30 83.50 34.53 9.83 30.50 223 81 Peak 2 5290.00 90.74 ------ ------ 76.88 34.53 9.83 30.50 223 81 Average
Avg.	 Site : 03CH02-SZ Condition : PART 15.407 AVG 3m HF_ANT_3117_0107 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz Project : 2N2209-01 Mode : Mode 18 SN : 60B2MM033087000K Plane : Y with Accessories : MC50 power setting 15.5 Freq Level Over Limit Limit Line ReadAntenna Level Cable Loss Preamp Factor Factor A/Pos T/Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 * 5112.70 42.66 -11.34 54.00 29.07 34.39 9.70 30.50 223 81 Average	Left blank