FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Redmi
MODEL NAME	:	23021RAAEG
FCC ID	:	2AFZZAAEG
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Nov. 21, 2022 ~ Dec. 19, 2022

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2O2913D	Rev. 01	Initial issue of report	Jan. 06, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
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	Under limit 3.02 dB at 5350.05 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.66 dB at 0.182 MHz
3.6	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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	23021RAAEG
FCC ID	2AFZZAAEG
IMEI Code	Conducted: 865480060045901/865480060045919 Conduction/ Radiation: 865480060043807/865480060043815
HW Version	P1.1
SW Version	MIUI14
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.02 dBm / 0.0504 W 802.11n HT20 : 16.24 dBm / 0.0421 W 802.11n HT40 : 15.39 dBm / 0.0346 W 802.11ac VHT20 : 16.28 dBm / 0.0425 W 802.11ac VHT40 : 15.45 dBm / 0.0351 W 802.11ac VHT80 : 12.68 dBm / 0.0185 W **<5260 MHz ~ 5320 MHz>** 802.11a : 16.36 dBm / 0.0433 W 802.11n HT20 : 15.46 dBm / 0.0352 W 802.11n HT40 : 14.40 dBm / 0.0275 W 802.11ac VHT20 : 15.48 dBm / 0.0353 W 802.11ac VHT40 : 14.46 dBm / 0.0279 W 802.11ac VHT80 : 12.24 dBm / 0.0167 W **<5500 MHz ~ 5700 MHz >** 802.11a : 13.76 dBm / 0.0238 W 802.11n HT20 : 13.76 dBm / 0.0238 W 802.11n HT40 : 14.03 dBm / 0.0253 W 802.11ac VHT20 : 13.80 dBm / 0.0240 W 802.11ac VHT40 : 14.09 dBm / 0.0256 W 802.11ac VHT80 : 13.28 dBm / 0.0213 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 16.78 MHz 802.11ac VHT20 : 17.93 MHz 802.11ac VHT40 : 36.16 MHz 802.11ac VHT80 : 75.52 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 16.78 MHz 802.11ac VHT20 : 17.93 MHz 802.11ac VHT40 : 36.16 MHz 802.11ac VHT80 : 75.40 MHz **<5500 MHz ~ 5700 MHz >** 802.11a : 16.78 MHz 802.11ac VHT20 : 17.93 MHz 802.11ac VHT40 : 36.16 MHz 802.11ac VHT80 : 75.40 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PIFA Antenna with gain -1.4 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna with gain -1.6 dBi **<5500 MHz ~ 5700 MHz>** PIFA Antenna with gain -1.2 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11ac VHT20/VHT40 by referring to the higher output power.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01- KS 03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 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.
- 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 (X 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- 5700 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

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.

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

RSE Co-location Modes:
LTE Band 38 Link + WLAN 5GHz 802.11ac VHT40 CH62 Tx

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable 1(Charging from Adapter) + Earphone

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter, Earphone and USB Cable.
2. The RSE Co-location mode is assessed from the worst WWAN Link + WLAN TX mode.

Ch. #		U-NII-1：5180-5240 MHz	U-NII-2A：5260-5320 MHz	U-NII-2C:5500- 5700 MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		U-NII-1：5180-5240 MHz	U-NII-2A：5260-5320 MHz	U-NII-2C:5500- 5700 MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

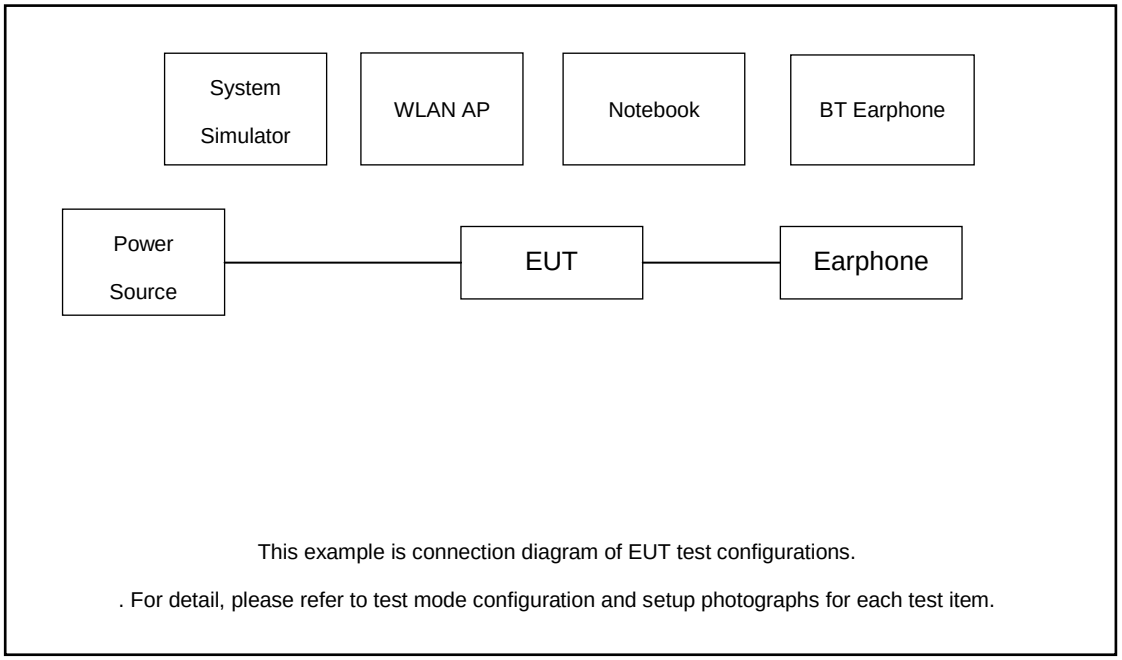
Ch. #		U-NII-1：5180-5240 MHz	U-NII-2A：5260-5320 MHz	U-NII-2C:5500- 5700 MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

Ch. #		U-NII-1：5180-5240 MHz	U-NII-2A：5260-5320 MHz	U-NII-2C:5500- 5700 MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122

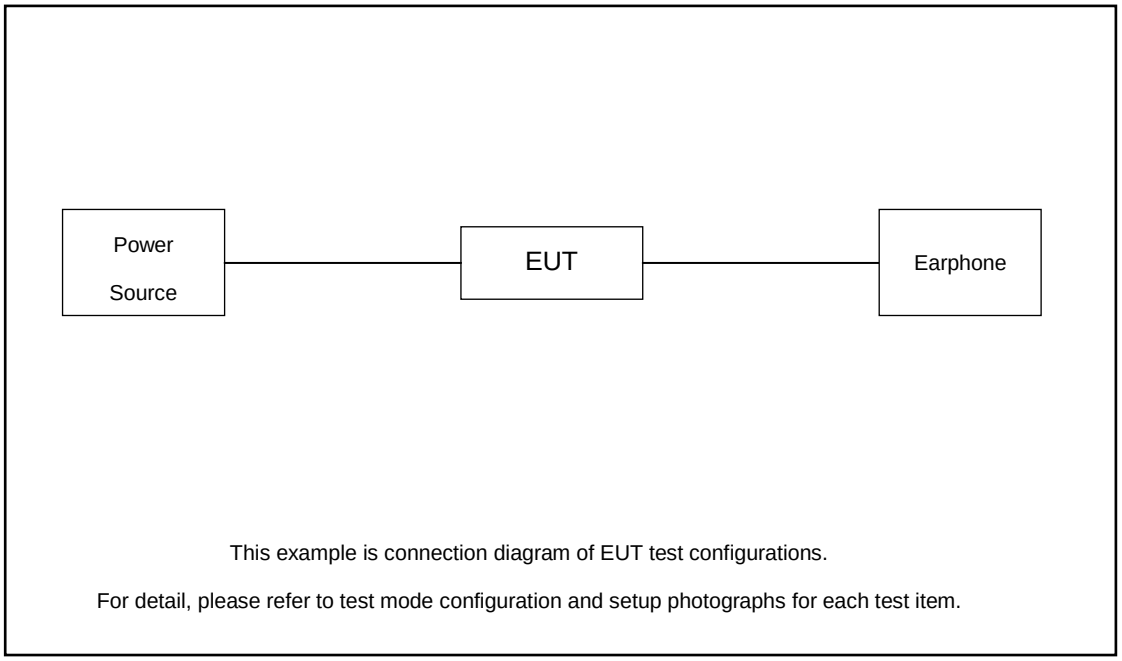
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

For Conducted Emission



For Radiated Emission



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	WLAN ap	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	SD Card	Kingston	8GB	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 continuously 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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.5 dB.

Offset(dB) = RF cable loss(dB).

= 7.5 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

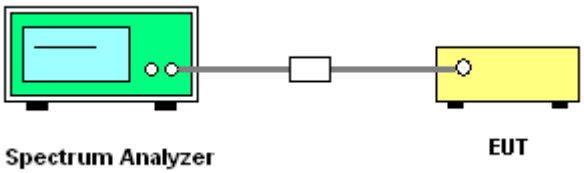
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules 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 and record the results in the test report.

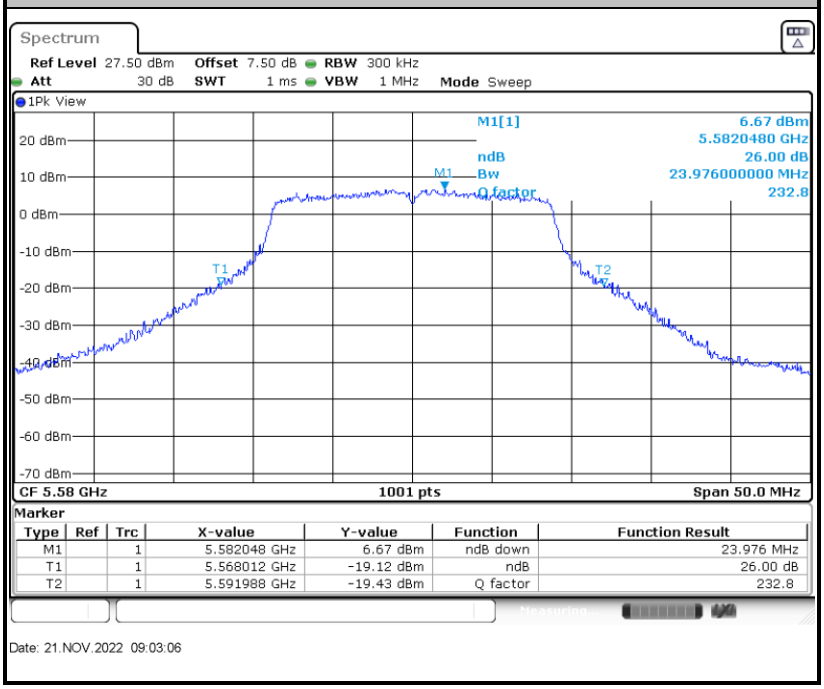
3.1.4 Test Setup



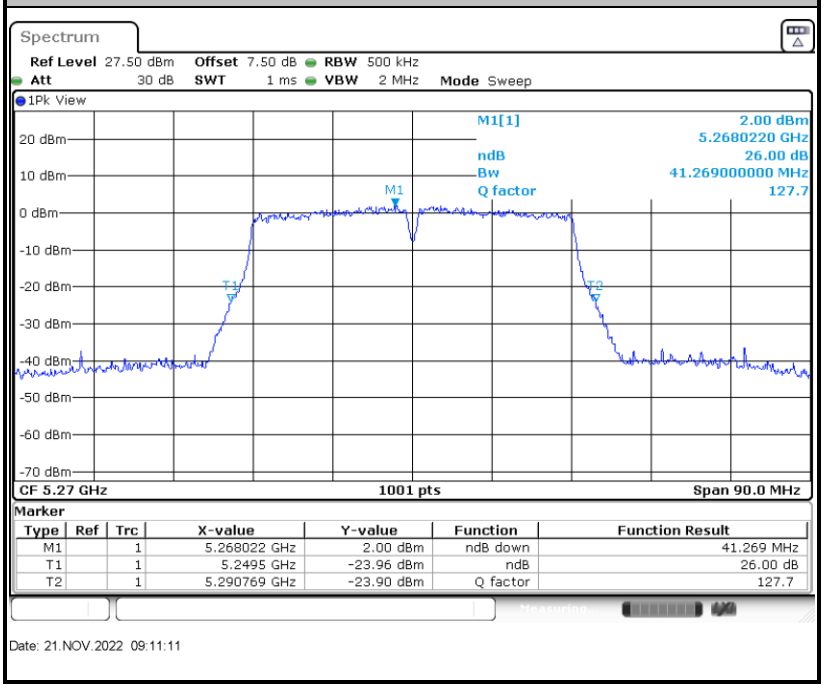
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

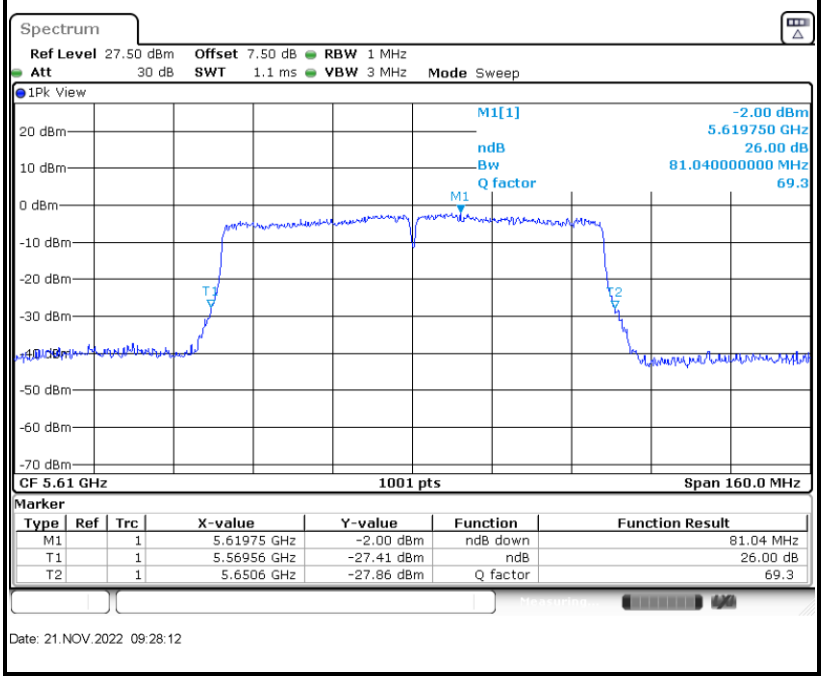
Maximum 26dB Bandwidth for 20M BW



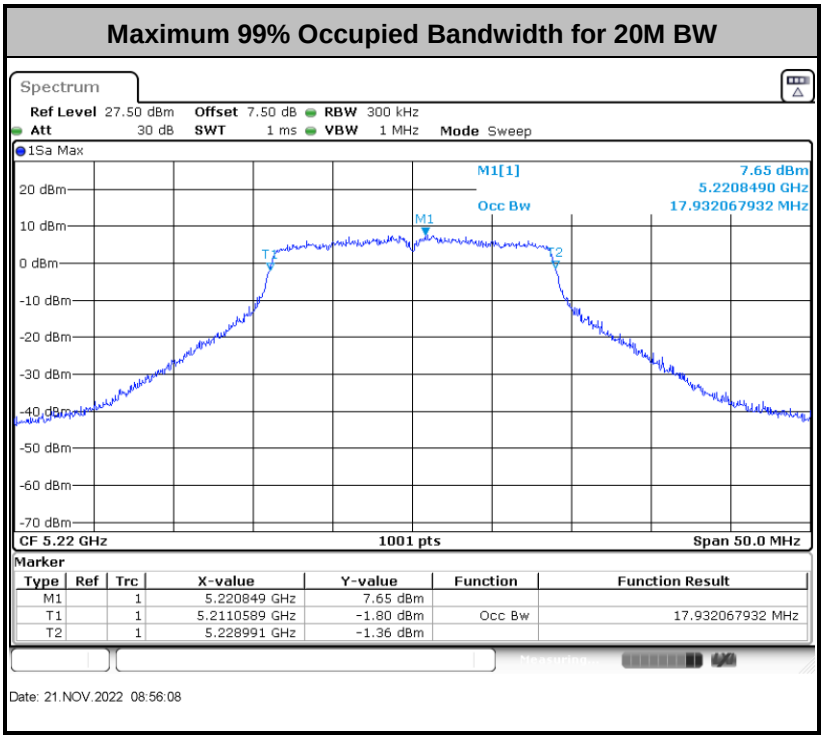
Maximum 26dB Bandwidth for 40M BW



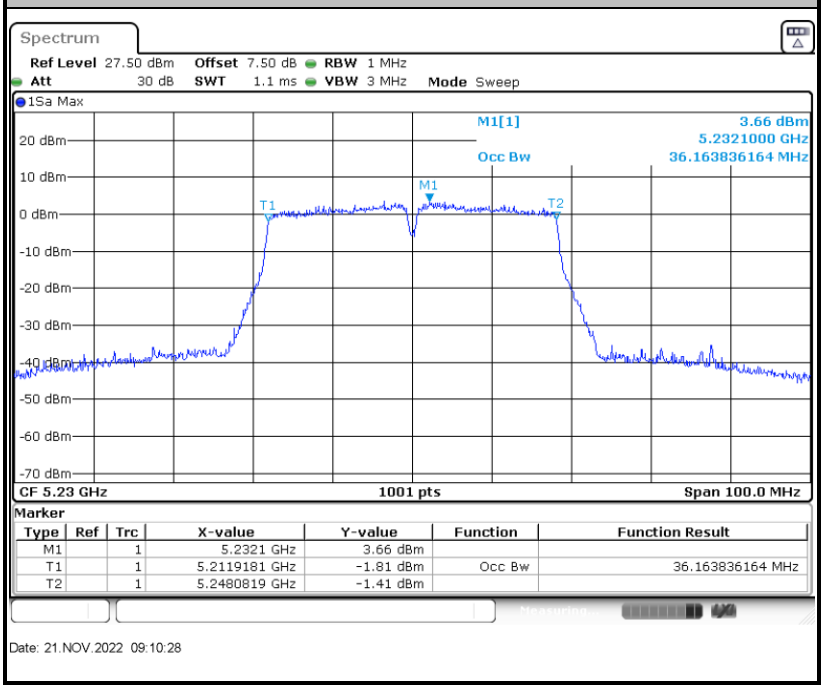
Maximum 26dB Bandwidth for 80M BW



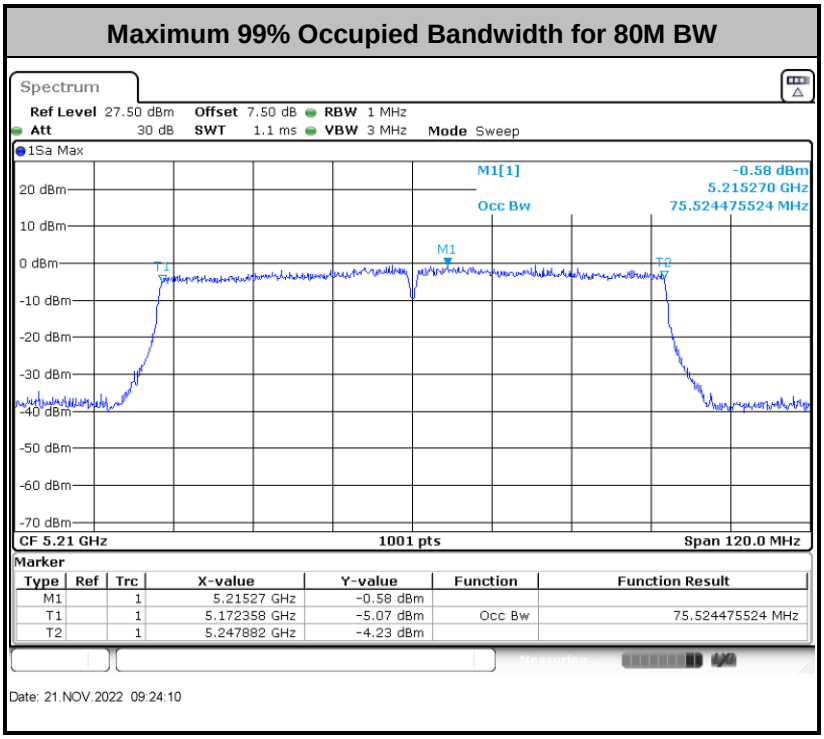
Maximum 99% Occupied Bandwidth for 20M BW



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.

3.2 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.

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.

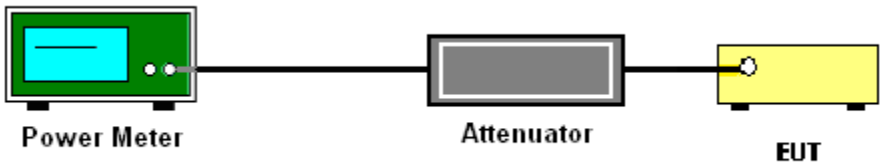
3.2.3 Test Procedures

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.

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.

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.

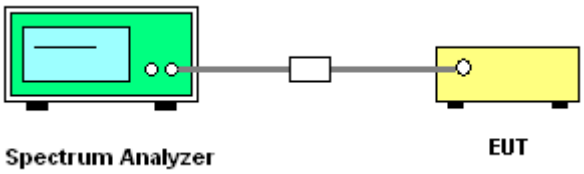
 # Method SA-2 #

(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 attenuator loss. Measure the PPSD and record it.

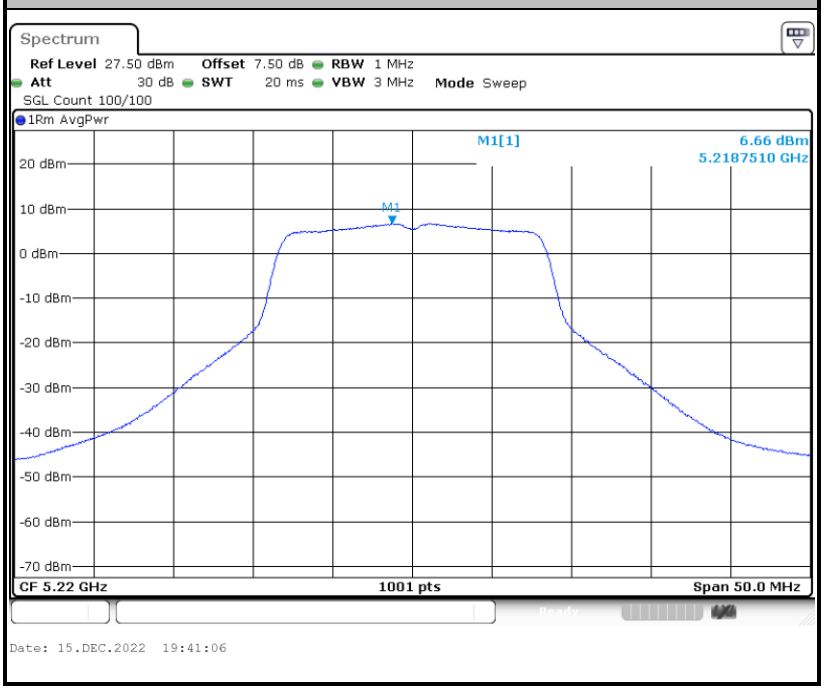
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

For transmitters operating in the 5470-5725 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	68.2

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

$$EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$$

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.

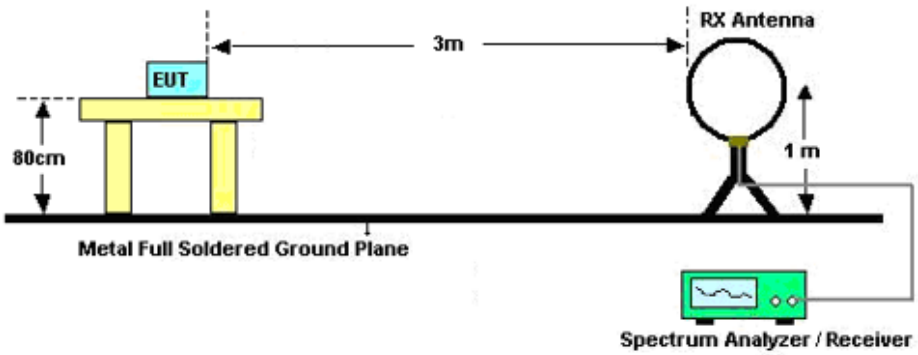
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

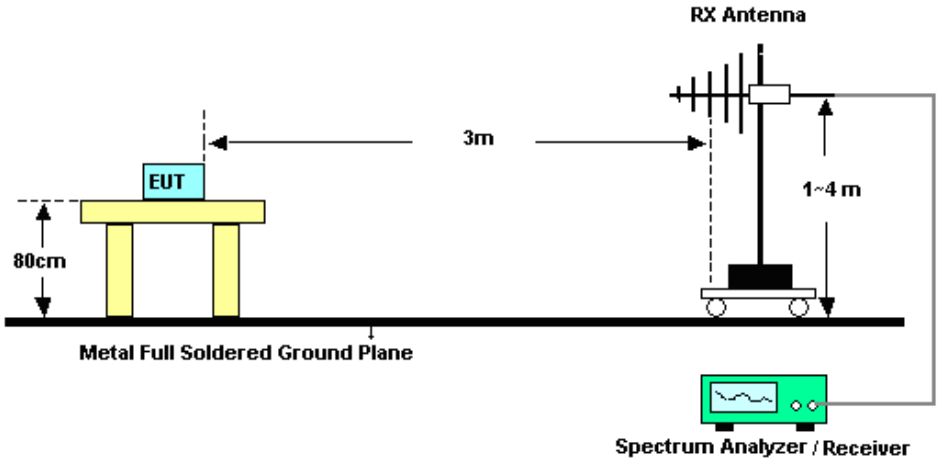
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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

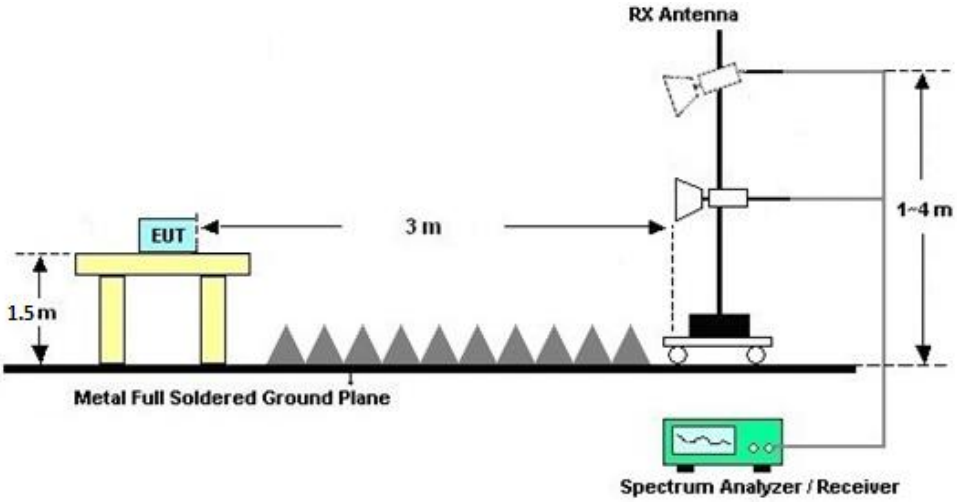
For radiated emissions below 30MHz



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.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

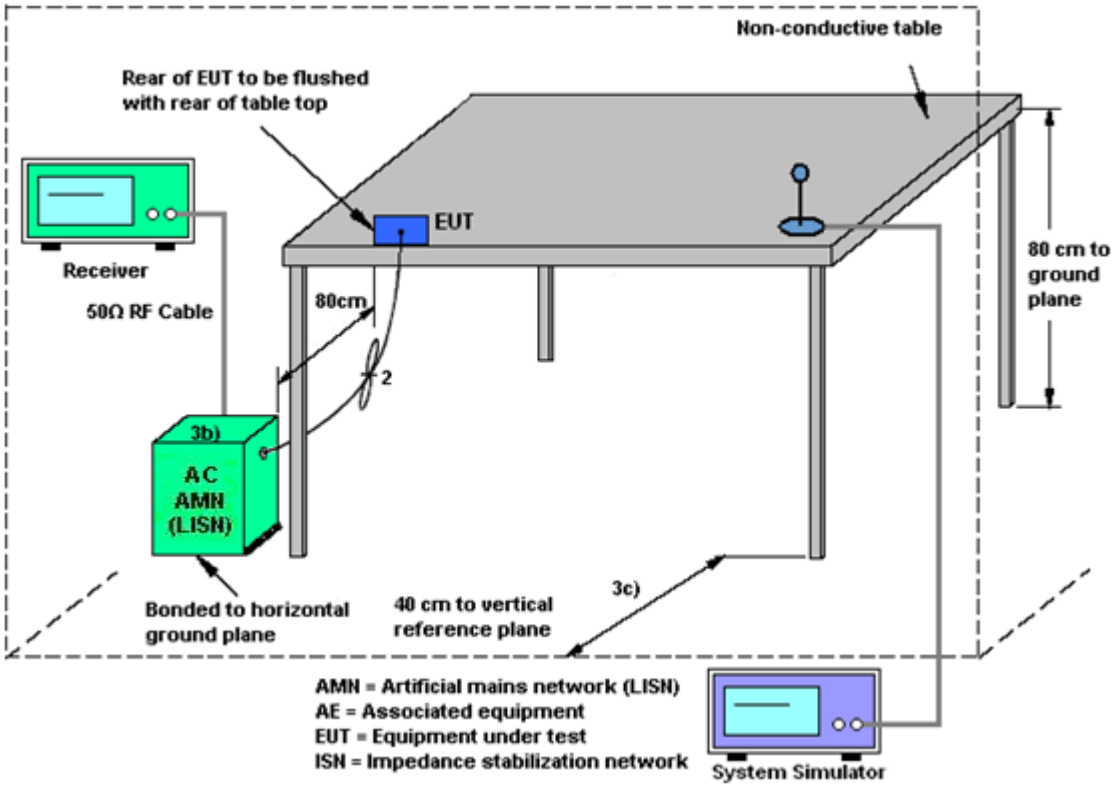
3.5.2 Measuring Instruments

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



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Nov. 21, 2022~ Dec. 15, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Nov. 21, 2022~ Dec. 15, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Nov. 21, 2022~ Dec. 15, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 13, 2022	Dec. 19, 2022	Oct. 12, 2023	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44GHz	Oct. 13, 2022	Dec. 19, 2022	Oct. 12, 2023	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Dec. 19, 2022	Oct. 15, 2023	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 24, 2022	Dec. 19, 2022	May 23, 2023	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 18, 2022	Dec. 19, 2022	Apr. 17, 2023	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 11, 2022	Dec. 19, 2022	Jul. 10, 2023	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2082395	1Ghz-18Ghz	Jan. 05, 2022	Dec. 19, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 12, 2022	Dec. 19, 2022	Oct. 12, 2023	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 19, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 19, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 19, 2022	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Dec. 08, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Dec. 08, 2022	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Dec. 08, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Dec. 08, 2022	Oct. 11, 2023	Conduction (CO01-KS)

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	±0.56 dB
Conducted Emissions	±0.92 dB
Occupied Channel Bandwidth	±0.03 %
Conducted Power Spectral Density	±0.54 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB

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))	5.0dB

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

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

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

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2022/11/21~2022/12/15	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	36	5180	16.78	22.58	-	22.25		
11a	6Mbps	1	44	5220	16.78	23.53	-	22.25		
11a	6Mbps	1	48	5240	16.78	23.13	-	22.25		
VHT20	MCS0	1	36	5180	17.88	23.83	-	22.52		
VHT20	MCS0	1	44	5220	17.93	23.63	-	22.54		
VHT20	MCS0	1	48	5240	17.88	23.68	-	22.52		
VHT40	MCS0	1	38	5190	36.16	40.64	-	23.01		
VHT40	MCS0	1	46	5230	36.16	40.64	-	23.01		
VHT80	MCS0	1	42	5210	75.52	80.56	-	23.01		

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	36	5180	16.89	24.00	-1.40		Pass
11a	6Mbps	1	44	5220	16.98	24.00	-1.40		Pass
11a	6Mbps	1	48	5240	17.02	24.00	-1.40		Pass
HT20	MCS0	1	36	5180	16.00	24.00	-1.40		Pass
HT20	MCS0	1	44	5220	16.19	24.00	-1.40		Pass
HT20	MCS0	1	48	5240	16.24	24.00	-1.40		Pass
HT40	MCS0	1	38	5190	15.27	24.00	-1.40		Pass
HT40	MCS0	1	46	5230	15.39	24.00	-1.40		Pass
VHT20	MCS0	1	36	5180	16.08	24.00	-1.40		Pass
VHT20	MCS0	1	44	5220	16.20	24.00	-1.40		Pass
VHT20	MCS0	1	48	5240	16.28	24.00	-1.40		Pass
VHT40	MCS0	1	38	5190	15.31	24.00	-1.40		Pass
VHT40	MCS0	1	46	5230	15.45	24.00	-1.40		Pass
VHT80	MCS0	1	42	5210	12.68	24.00	-1.40		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	36	5180	6.46	11.00	-1.40		Pass
11a	6Mbps	1	44	5220	6.66	11.00	-1.40		Pass
11a	6Mbps	1	48	5240	6.50	11.00	-1.40		Pass
VHT20	MCS0	1	36	5180	4.81	11.00	-1.40		Pass
VHT20	MCS0	1	44	5220	5.17	11.00	-1.40		Pass
VHT20	MCS0	1	48	5240	4.81	11.00	-1.40		Pass
VHT40	MCS0	1	38	5190	0.90	11.00	-1.40		Pass
VHT40	MCS0	1	46	5230	1.24	11.00	-1.40		Pass
VHT80	MCS0	1	42	5210	-4.66	11.00	-1.40		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	16.73	23.33	23.24	29.24	23.98	
11a	6Mbps	1	60	5300	16.78	22.68	23.25	29.25	23.98	
11a	6Mbps	1	64	5320	16.78	22.78	23.25	29.25	23.98	
VHT20	MCS0	1	52	5260	17.93	23.73	23.54	29.54	23.98	
VHT20	MCS0	1	60	5300	17.88	23.53	23.52	29.52	23.98	
VHT20	MCS0	1	64	5320	17.88	23.13	23.52	29.52	23.98	
VHT40	MCS0	1	54	5270	36.16	41.27	23.98	30.00	23.98	
VHT40	MCS0	1	62	5310	36.16	41.00	23.98	30.00	23.98	
VHT80	MCS0	1	58	5290	75.40	80.88	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	52	5260	16.23	23.98	-1.60	26.98	Pass
11a	6Mbps	1	60	5300	16.14	23.98	-1.60	26.98	Pass
11a	6Mbps	1	64	5320	16.36	23.98	-1.60	26.98	Pass
HT20	MCS0	1	52	5260	15.29	23.98	-1.60	26.98	Pass
HT20	MCS0	1	60	5300	15.24	23.98	-1.60	26.98	Pass
HT20	MCS0	1	64	5320	15.46	23.98	-1.60	26.98	Pass
HT40	MCS0	1	54	5270	14.40	23.98	-1.60	26.98	Pass
HT40	MCS0	1	62	5310	13.33	23.98	-1.60	26.98	Pass
VHT20	MCS0	1	52	5260	15.33	23.98	-1.60	26.98	Pass
VHT20	MCS0	1	60	5300	15.27	23.98	-1.60	26.98	Pass
VHT20	MCS0	1	64	5320	15.48	23.98	-1.60	26.98	Pass
VHT40	MCS0	1	54	5270	14.46	23.98	-1.60	26.98	Pass
VHT40	MCS0	1	62	5310	13.40	23.98	-1.60	26.98	Pass
VHT80	MCS0	1	58	5290	12.24	23.98	-1.60	26.98	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	52	5260	5.39	11.00	-1.60		Pass
11a	6Mbps	1	60	5300	5.44	11.00	-1.60		Pass
11a	6Mbps	1	64	5320	5.64	11.00	-1.60		Pass
VHT20	MCS0	1	52	5260	4.10	11.00	-1.60		Pass
VHT20	MCS0	1	60	5300	4.23	11.00	-1.60		Pass
VHT20	MCS0	1	64	5320	4.23	11.00	-1.60		Pass
VHT40	MCS0	1	54	5270	-0.07	11.00	-1.60		Pass
VHT40	MCS0	1	62	5310	-0.86	11.00	-1.60		Pass
VHT80	MCS0	1	58	5290	-5.38	11.00	-1.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel (MHz)
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	Ant 1
11a	6Mbps	1	100	5500	16.78	22.48	23.25	29.25	23.98	----
11a	6Mbps	1	116	5580	16.78	23.28	23.25	29.25	23.98	----
11a	6Mbps	1	140	5700	16.73	23.23	23.24	29.24	23.98	----
VHT20	MCS0	1	100	5500	17.93	23.63	23.54	29.54	23.98	----
VHT20	MCS0	1	116	5580	17.88	23.98	23.52	29.52	23.98	----
VHT20	MCS0	1	140	5700	17.93	23.23	23.54	29.54	23.98	----
VHT40	MCS0	1	102	5510	36.06	40.64	23.98	30.00	23.98	----
VHT40	MCS0	1	110	5550	36.16	40.28	23.98	30.00	23.98	----
VHT40	MCS0	1	134	5670	36.16	41.00	23.98	30.00	23.98	----
VHT80	MCS0	1	106	5530	75.40	80.40	23.98	30.00	23.98	----
VHT80	MCS0	1	122	5610	75.40	81.04	23.98	30.00	23.98	----

TEST RESULTS DATA
Average Power Table

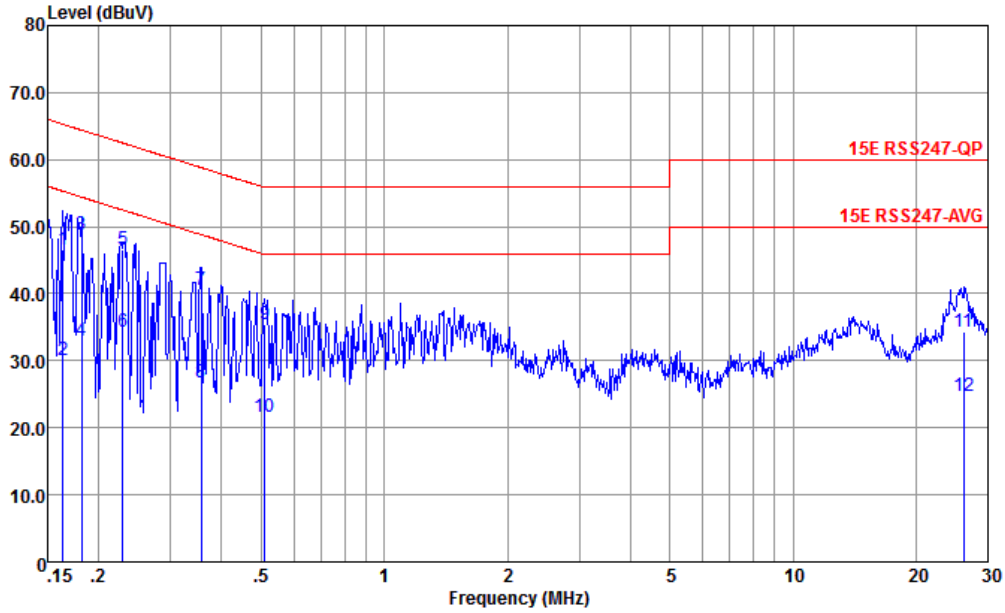
FCC U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	13.52	23.98	-1.20	26.99	Pass
11a	6Mbps	1	116	5580	13.76	23.98	-1.20	26.99	Pass
11a	6Mbps	1	140	5700	13.55	23.98	-1.20	26.99	Pass
HT20	MCS0	1	100	5500	13.72	23.98	-1.20	26.99	Pass
HT20	MCS0	1	116	5580	13.76	23.98	-1.20	26.99	Pass
HT20	MCS0	1	140	5700	13.53	23.98	-1.20	26.99	Pass
HT40	MCS0	1	102	5510	14.03	23.98	-1.20	26.99	Pass
HT40	MCS0	1	110	5550	13.88	23.98	-1.20	26.99	Pass
HT40	MCS0	1	134	5670	13.35	23.98	-1.20	26.99	Pass
VHT20	MCS0	1	100	5500	13.76	23.98	-1.20	26.99	Pass
VHT20	MCS0	1	116	5580	13.80	23.98	-1.20	26.99	Pass
VHT20	MCS0	1	140	5700	13.57	23.98	-1.20	26.99	Pass
VHT40	MCS0	1	102	5510	14.09	23.98	-1.20	26.99	Pass
VHT40	MCS0	1	110	5550	13.95	23.98	-1.20	26.99	Pass
VHT40	MCS0	1	134	5670	13.41	23.98	-1.20	26.99	Pass
VHT80	MCS0	1	106	5530	12.05	23.98	-1.20	26.99	Pass
VHT80	MCS0	1	122	5610	13.28	23.98	-1.20	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	3.00	11.00	-1.20		Pass
11a	6Mbps	1	116	5580	3.55	11.00	-1.20		Pass
11a	6Mbps	1	140	5700	3.31	11.00	-1.20		Pass
VHT20	MCS0	1	100	5500	2.55	11.00	-1.20		Pass
VHT20	MCS0	1	116	5580	2.47	11.00	-1.20		Pass
VHT20	MCS0	1	140	5700	1.97	11.00	-1.20		Pass
VHT40	MCS0	1	102	5510	-0.14	11.00	-1.20		Pass
VHT40	MCS0	1	110	5550	0.06	11.00	-1.20		Pass
VHT40	MCS0	1	134	5670	-1.22	11.00	-1.20		Pass
VHT80	MCS0	1	106	5530	-5.30	11.00	-1.20		Pass
VHT80	MCS0	1	122	5610	-3.99	11.00	-1.20		Pass

Appendix B. AC Conducted Emission Test Results

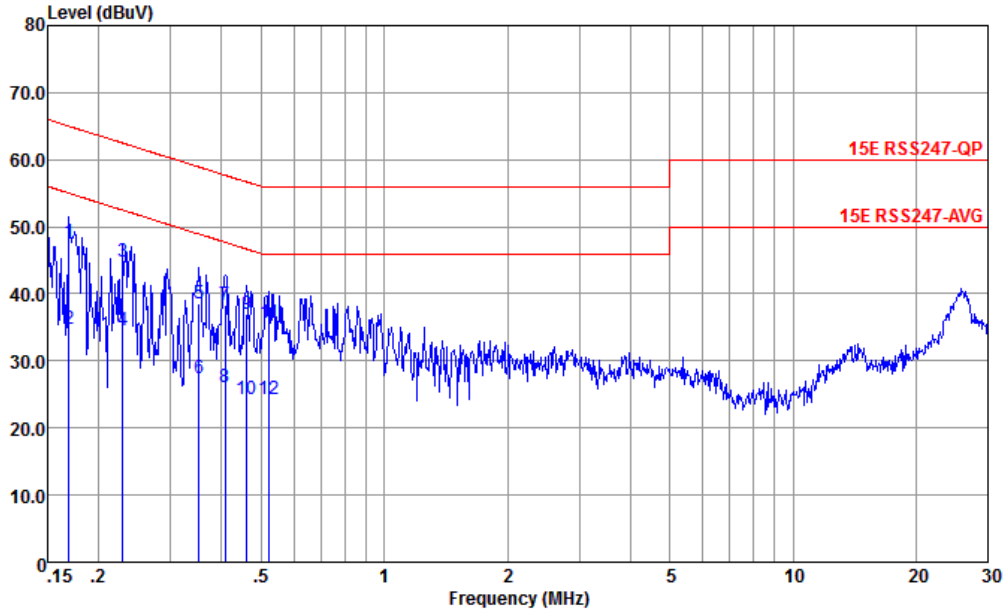
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-LINE LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.163	46.68	-18.62	65.30	36.19	0.06	10.43	QP
2		0.163	30.08	-25.22	55.30	19.59	0.06	10.43	Average
3	*	0.182	48.76	-15.66	64.42	38.30	0.04	10.42	QP
4		0.182	33.06	-21.36	54.42	22.60	0.04	10.42	Average
5		0.229	46.63	-15.85	62.48	36.20	0.03	10.40	QP
6		0.229	34.33	-18.15	52.48	23.90	0.03	10.40	Average
7		0.356	40.55	-18.28	58.83	30.20	0.03	10.32	QP
8		0.356	26.65	-22.18	48.83	16.30	0.03	10.32	Average
9		0.510	35.37	-20.63	56.00	25.19	-0.03	10.21	QP
10		0.510	21.67	-24.33	46.00	11.49	-0.03	10.21	Average
11		26.139	34.42	-25.58	60.00	23.20	-0.34	11.56	QP
12		26.139	24.82	-25.18	50.00	13.60	-0.34	11.56	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-NEUTRAL NEUTRAL

		Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1	*	0.169	47.66	-17.33	64.99	37.19	0.04	10.43	QP
2		0.169	34.76	-20.23	54.99	24.29	0.04	10.43	Average
3		0.229	44.71	-17.77	62.48	34.29	0.02	10.40	QP
4		0.229	34.61	-17.87	52.48	24.19	0.02	10.40	Average
5		0.352	38.46	-20.45	58.91	28.20	-0.06	10.32	QP
6		0.352	27.46	-21.45	48.91	17.20	-0.06	10.32	Average
7		0.408	38.42	-19.26	57.68	28.20	-0.07	10.29	QP
8		0.408	26.12	-21.56	47.68	15.90	-0.07	10.29	Average
9		0.461	36.97	-19.70	56.67	26.81	-0.08	10.24	QP
10		0.461	24.37	-22.30	46.67	14.21	-0.08	10.24	Average
11		0.524	35.72	-20.28	56.00	25.60	-0.08	10.20	QP
12		0.524	24.22	-21.78	46.00	14.10	-0.08	10.20	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	U-NII-1	5.15-5.25	802.11a	36	5180	6Mbps	-
Mode 2	U-NII-1	5.15-5.25	802.11a	44	5220	6Mbps	-
Mode 3	U-NII-1	5.15-5.25	802.11a	48	5240	6Mbps	-
Mode 4	U-NII-2A	5.25-5.35	802.11a	52	5260	6Mbps	-
Mode 5	U-NII-2A	5.25-5.35	802.11a	60	5300	6Mbps	-
Mode 6	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-
Mode 7	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-
Mode 8	U-NII-2C	5.47-5.725	802.11a	116	5580	6Mbps	-
Mode 9	U-NII-2C	5.47-5.725	802.11a	140	5700	6Mbps	-
Mode 10	U-NII-1	5.15-5.25	802.11ac VHT20	36	5180	MCS0	-
Mode 11	U-NII-1	5.15-5.25	802.11ac VHT20	44	5220	MCS0	-
Mode 12	U-NII-1	5.15-5.25	802.11ac VHT20	48	5240	MCS0	-
Mode 13	U-NII-2A	5.25-5.35	802.11ac VHT20	52	5260	MCS0	-
Mode 14	U-NII-2A	5.25-5.35	802.11ac VHT20	60	5300	MCS0	-
Mode 15	U-NII-2A	5.25-5.35	802.11ac VHT20	64	5320	MCS0	-
Mode 16	U-NII-2C	5.47-5.725	802.11ac VHT20	100	5500	MCS0	-
Mode 17	U-NII-2C	5.47-5.725	802.11ac VHT20	116	5580	MCS0	-
Mode 18	U-NII-2C	5.47-5.725	802.11ac VHT20	140	5700	MCS0	-
Mode 19	U-NII-1	5.15-5.25	802.11ac VHT40	38	5190	MCS0	-
Mode 20	U-NII-1	5.15-5.25	802.11ac VHT40	46	5230	MCS0	-
Mode 21	U-NII-2A	5.25-5.35	802.11ac VHT40	54	5270	MCS0	-
Mode 22	U-NII-2A	5.25-5.35	802.11ac VHT40	62	5310	MCS0	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 23	U-NII-2C	5.47-5.725	802.11ac VHT40	102	5510	MCS0	-
Mode 24	U-NII-2C	5.47-5.725	802.11ac VHT40	110	5550	MCS0	-
Mode 25	U-NII-2C	5.47-5.725	802.11ac VHT40	134	5670	MCS0	-
Mode 26	U-NII-1	5.15-5.25	802.11ac VHT80	42	5210	MCS0	-
Mode 27	U-NII-2A	5.25-5.35	802.11ac VHT80	58	5290	MCS0	-
Mode 28	U-NII-2C	5.47-5.725	802.11ac VHT80	106	5530	MCS0	-
Mode 29	U-NII-2C	5.47-5.725	802.11ac VHT80	122	5610	MCS0	-
Mode 30	U-NII-2A	5.25-5.35	802.11ac VHT40	62	5310	MCS0	Co-location
	LTE Band 38 link (BW=20M)						
Mode 31	U-NII-2A	5.25-5.35	802.11ac VHT40	62	5310	MCS0	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5150.00	50.31	54.00	-3.69	H	AVERAGE	Pass	Band Edge
1	802.11a	36	10360.00	50.45	68.30	-17.85	H	PEAK	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
2	802.11a	44	10440.00	49.29	68.30	-19.01	H	PEAK	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
3	802.11a	48	10480.00	48.38	68.30	-19.92	H	PEAK	Pass	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	Band Edge
4	802.11a	52	7022	58.23	68.30	-10.07	H	PEAK	Pass	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	Band Edge
5	802.11a	60	7077	57.63	68.3	-10.67	H	PEAK	Pass	Harmonic
6	802.11a	64	5350.10	50.08	54.00	-3.92	H	AVERAGE	Pass	Band Edge
6	802.11a	64	7093.50	53.03	68.30	-15.27	V	Peak	Pass	Harmonic
7	802.11a	100	-	-	-	-	-	-	-	Band Edge
7	802.11a	100	7333.37	45.36	54.00	-8.64	H	AVERAGE	Pass	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	Band Edge
8	802.11a	116	11160.00	46.29	74.00	-27.71	V	PEAK	Pass	Harmonic
9	802.11a	140	5725.61	63.08	68.30	-5.22	H	PEAK	Pass	Band Edge
9	802.11a	140	11400.00	47.06	74.00	-26.94	V	PEAK	Pass	Harmonic
10	802.11ac VHT20	36	5147.50	47.04	54.00	-6.96	H	AVERAGE	Pass	Band Edge
10	802.11ac VHT20	36	10360.00	49.85	68.30	-18.45	H	PEAK	Pass	Harmonic
11	802.11ac VHT20	44	-	-	-	-	-	-	-	Band Edge
11	802.11ac VHT20	44	10440.00	49.31	68.30	-18.99	H	PEAK	Pass	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
12	802.11ac VHT20	48	-	-	-	-	-	-	-	Band Edge
12	802.11ac VHT20	48	10480.00	47.85	68.30	-20.45	V	PEAK	Pass	Harmonic
13	802.11ac VHT20	52	-	-	-	-	-	-	-	Band Edge
13	802.11ac VHT20	52	7022	58.53	68.30	-9.77	H	PEAK	Pass	Harmonic
14	802.11ac VHT20	60	-	-	-	-	-	-	-	Band Edge
14	802.11ac VHT20	60	7077	57.44	68.3	-10.86	H	Peak	Pass	Harmonic
15	802.11ac VHT20	64	5350.24	47.31	54.00	-6.69	H	AVERAGE	Pass	Band Edge
15	802.11ac VHT20	64	7093.69	51.51	68.30	-16.79	H	PEAK	Pass	Harmonic
16	802.11ac VHT20	100	5459.50	47.87	54.00	-6.13	H	AVERAGE	Pass	Band Edge
16	802.11ac VHT20	100	7341	48.88	74	-25.12	H	Peak	Pass	Harmonic
17	802.11ac VHT20	116	-	-	-	-	-	-	-	Band Edge
17	802.11ac VHT20	116	11160.00	45.66	74.00	-28.34	H	PEAK	Pass	Harmonic
18	802.11ac VHT20	140	5728.34	59.22	68.30	-9.08	H	PEAK	Pass	Band Edge
18	802.11ac VHT20	140	11400.00	46.91	74.00	-27.09	H	PEAK	Pass	Harmonic
19	802.11ac VHT40	38	5149.30	50.03	54.00	-3.97	H	AVERAGE	Pass	Band Edge
19	802.11ac VHT40	38	10380.00	46.24	68.30	-22.06	H	PEAK	Pass	Harmonic
20	802.11ac VHT40	46	5147.89	46.25	54.00	-7.75	H	AVERAGE	Pass	Band Edge
20	802.11ac VHT40	46	10476	48.21	68.3	-20.09	V	PEAK	Pass	Harmonic
21	802.11ac VHT40	54	5009.72	45.84	54.00	-8.16	H	AVERAGE	Pass	Band Edge
21	802.11ac VHT40	54	7033	57.78	68.3	-10.52	H	PEAK	Pass	Harmonic
22	802.11ac VHT40	62	5350.05	50.98	54.00	-3.02	H	AVERAGE	Pass	Band Edge
22	802.11ac VHT40	62	7088	56.45	68.3	-11.85	H	PEAK	Pass	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11ac VHT40	102	5459.92	50.22	54.00	-3.78	H	AVERAGE	Pass	Band Edge
23	802.11ac VHT40	102	11020.00	46.86	74.00	-27.14	V	PEAK	Pass	Harmonic
24	802.11ac VHT40	110	5459.40	46.24	54.00	-7.76	H	AVERAGE	Pass	Band Edge
24	802.11ac VHT40	110	11100.00	46.16	74.00	-27.84	H	PEAK	Pass	Harmonic
25	802.11ac VHT40	134	5452.72	45.59	54.00	-8.41	H	AVERAGE	Pass	Band Edge
25	802.11ac VHT40	134	11340.00	46.83	74.00	-27.17	V	PEAK	Pass	Harmonic
26	802.11ac VHT80	42	5149.94	50.19	54.00	-3.81	H	AVERAGE	Pass	Band Edge
26	802.11ac VHT80	42	10420.00	46.68	68.30	-21.62	H	PEAK	Pass	Harmonic
27	802.11ac VHT80	58	5352.22	50.79	54.00	-3.21	H	AVERAGE	Pass	Band Edge
27	802.11ac VHT80	58	7055	56.74	68.30	-11.56	H	PEAK	Pass	Harmonic
28	802.11ac VHT80	106	5459.08	50.89	54.00	-3.11	H	AVERAGE	Pass	Band Edge
28	802.11ac VHT80	106	11060.00	35.40	54.00	-18.60	V	AVERAGE	Pass	Harmonic
29	802.11ac VHT80	122	5458.72	45.78	54.00	-8.22	H	AVERAGE	Pass	Band Edge
29	802.11ac VHT80	122	11220.00	46.01	74.00	-27.99	H	PEAK	Pass	Harmonic
30	802.11ac VHT40	62	5350.2	49.86	54	-4.14	H	PEAK	Pass	Band Edge
30	802.11ac VHT40	62	7088	58.72	68.3	-9.58	H	PEAK	Pass	Harmonic
31	802.11ac VHT40	62	30.97	29.07	40.00	-10.93	V	Peak	Pass	LF

Mode	1	
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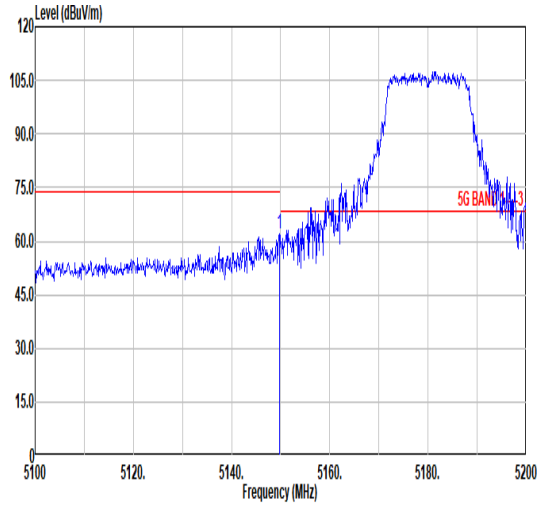
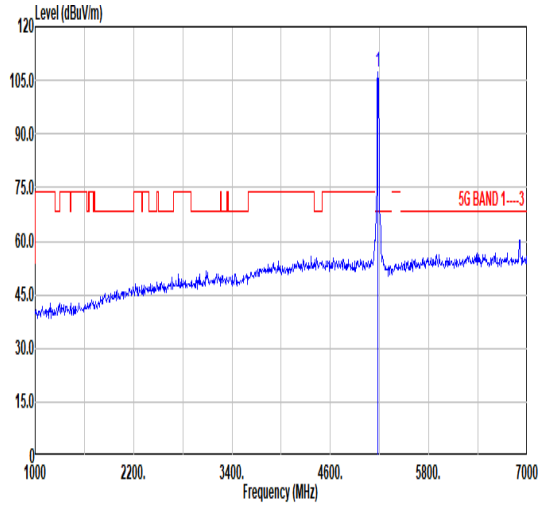
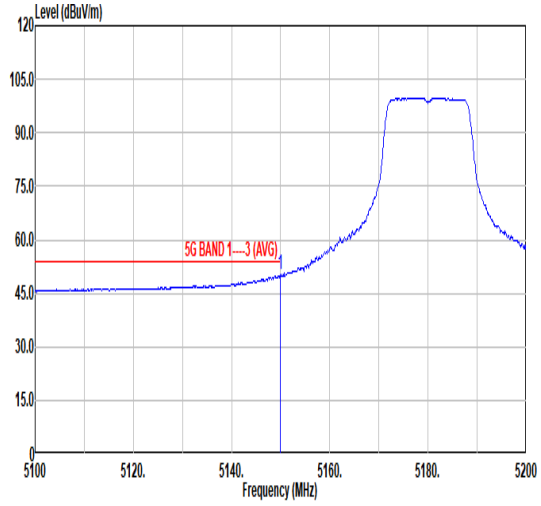
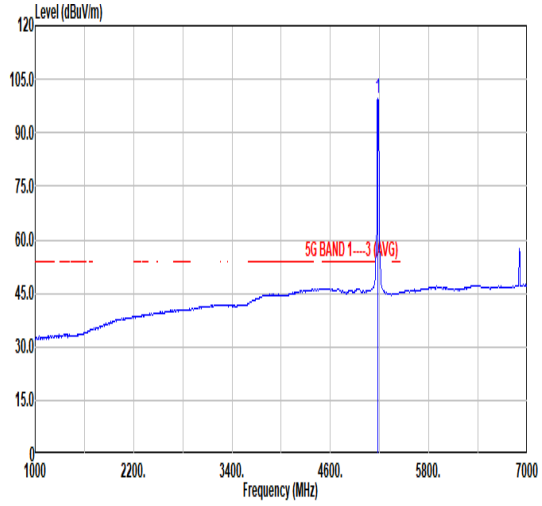
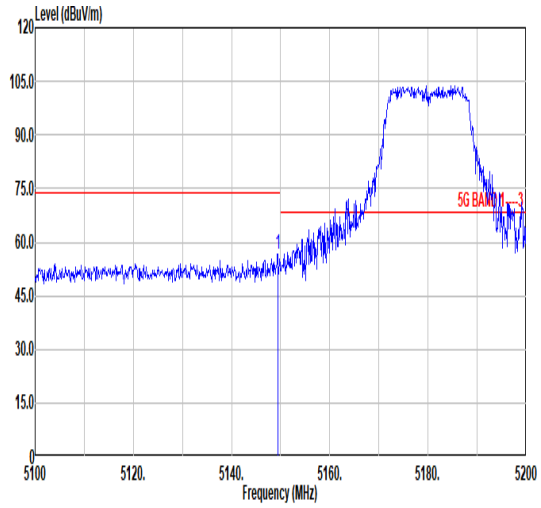
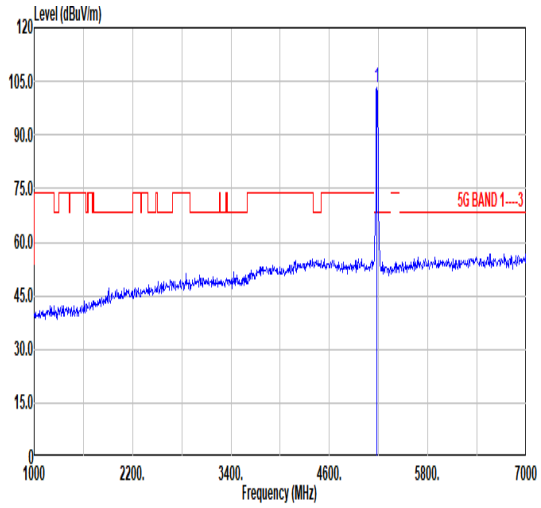
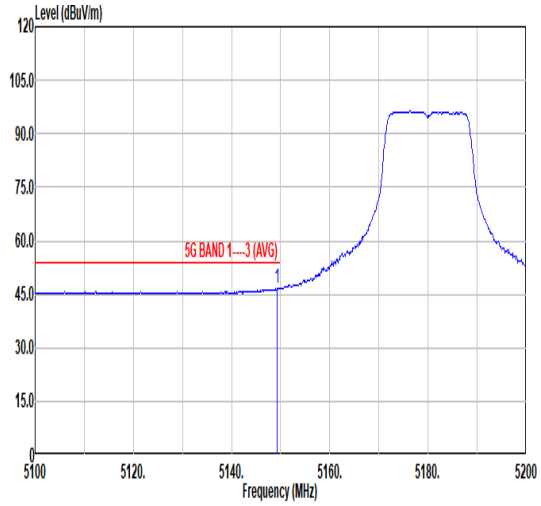
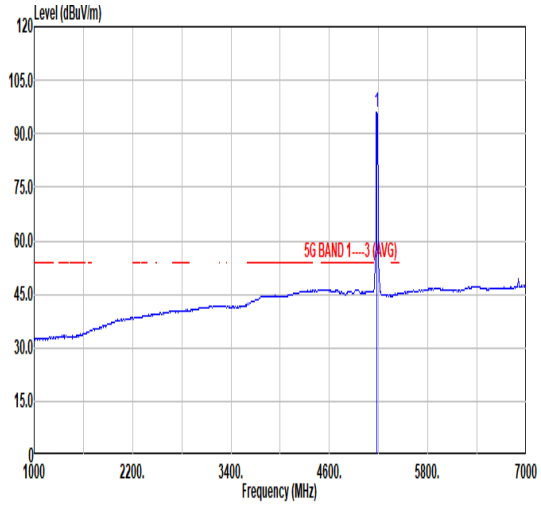
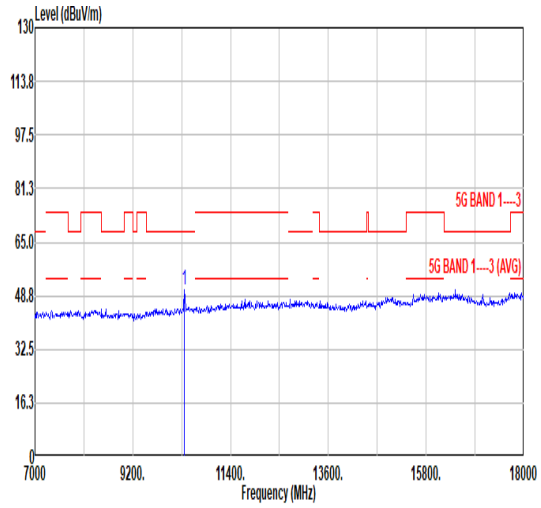
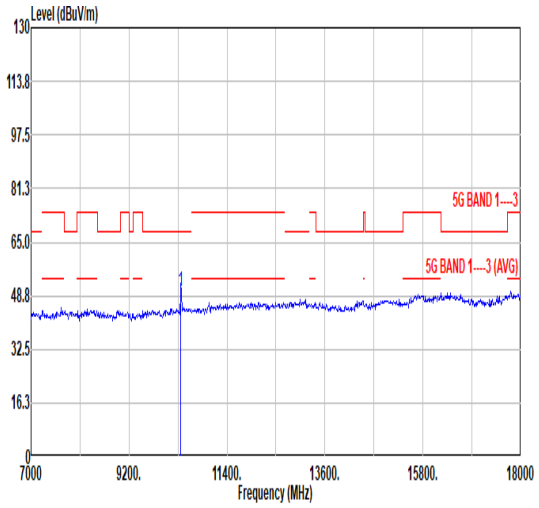
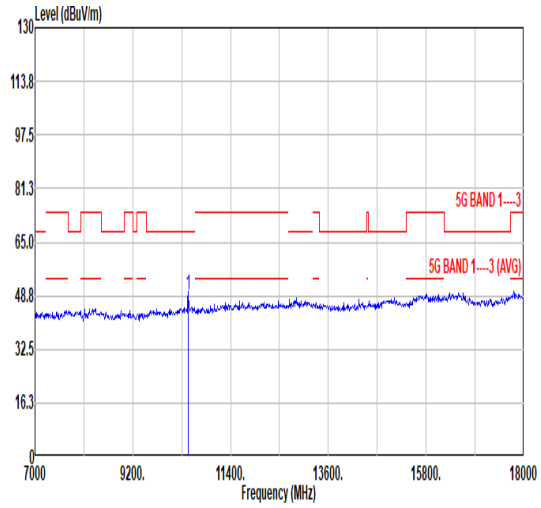
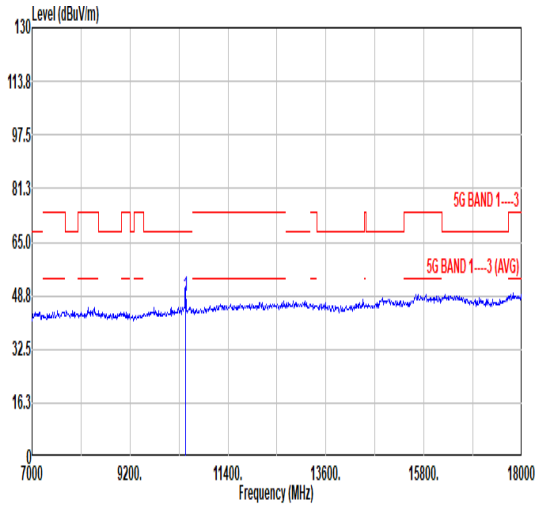
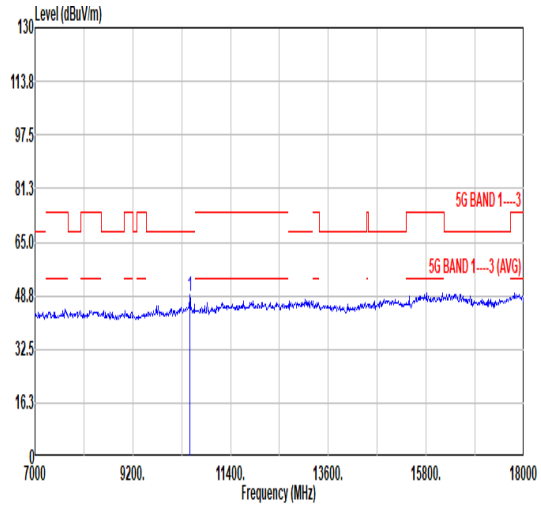
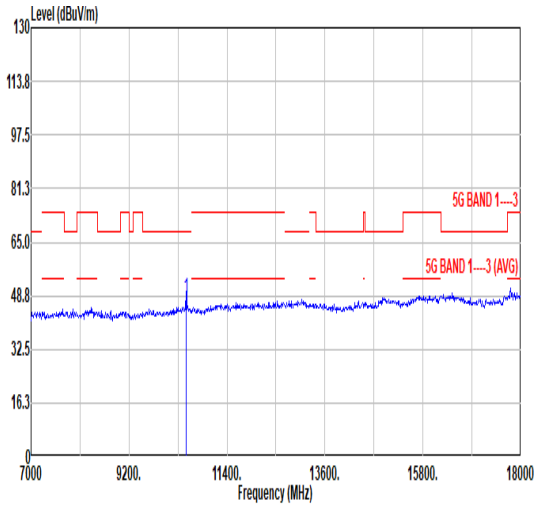
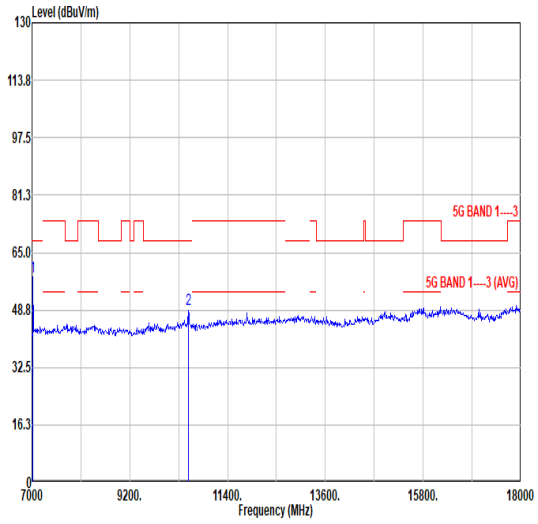
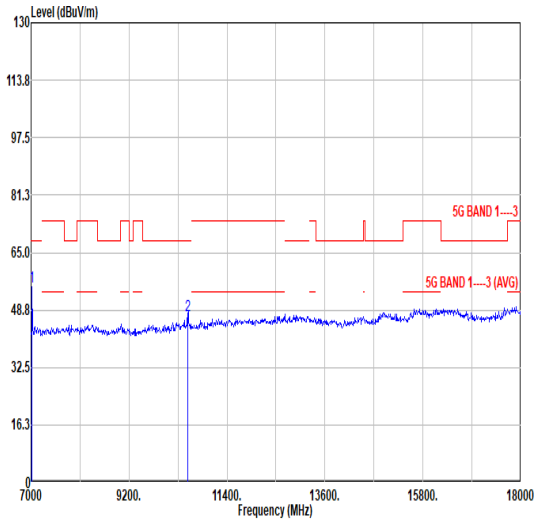
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.70 61.85 74.00 -12.15 48.51 34.62 11.86 33.14 0.00 100 239 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 107.10 ------ ------ 93.70 34.64 11.89 33.13 0.00 100 239 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5150.00 50.31 54.00 -3.69 36.97 34.62 11.86 33.14 0.00 100 239 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 99.68 ------ ------ 86.28 34.64 11.89 33.13 0.00 100 239 AVERAGE

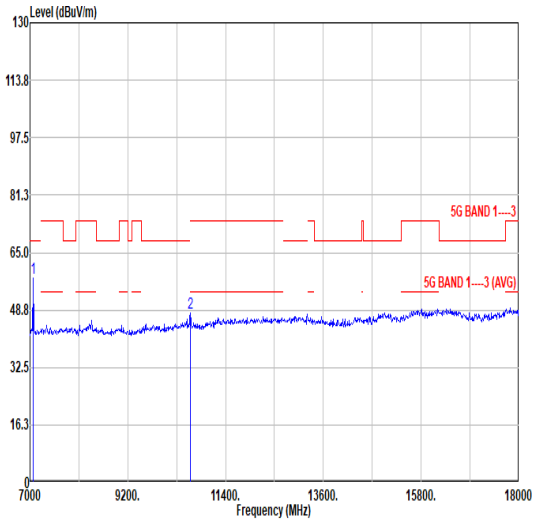
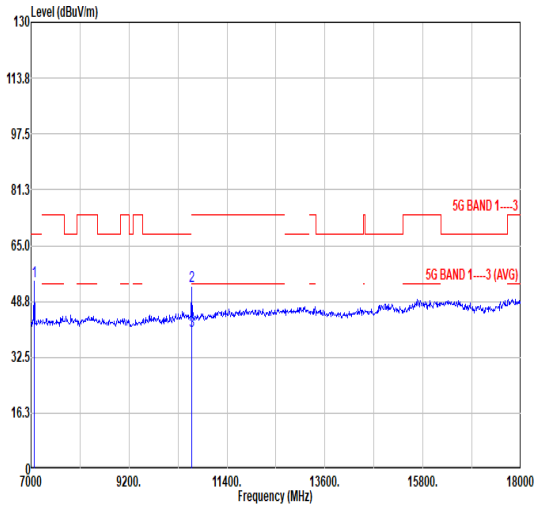
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5149.40 56.48 74.00 -17.52 43.14 34.62 11.86 33.14 0.00 400 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5180.00 103.40 ------ ------ 90.00 34.64 11.89 33.13 0.00 400 0 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5149.20 46.68 54.00 -7.32 33.34 34.62 11.86 33.14 0.00 400 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5180.00 96.21 ------ ------ 82.81 34.64 11.89 33.13 0.00 400 0 AVERAGE

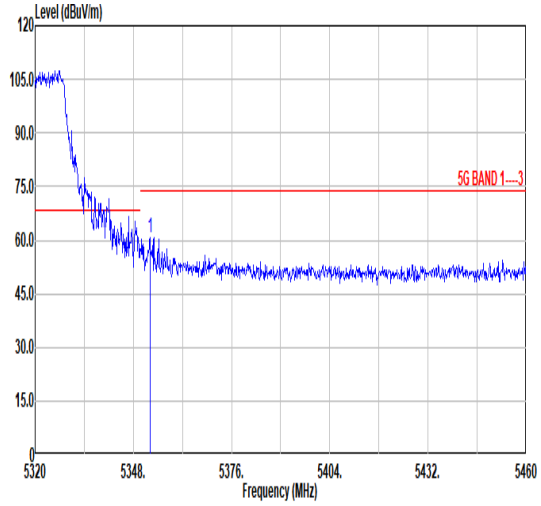
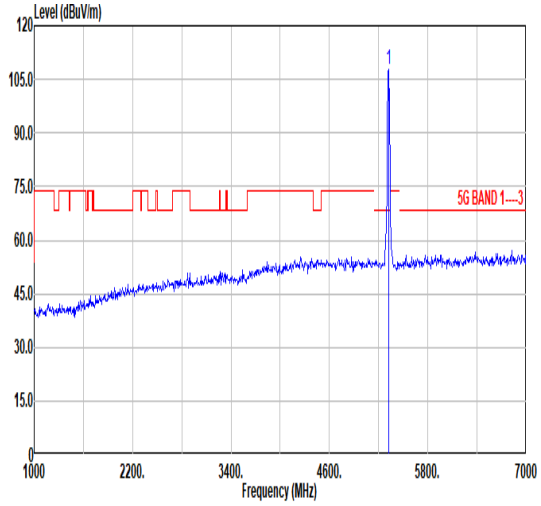
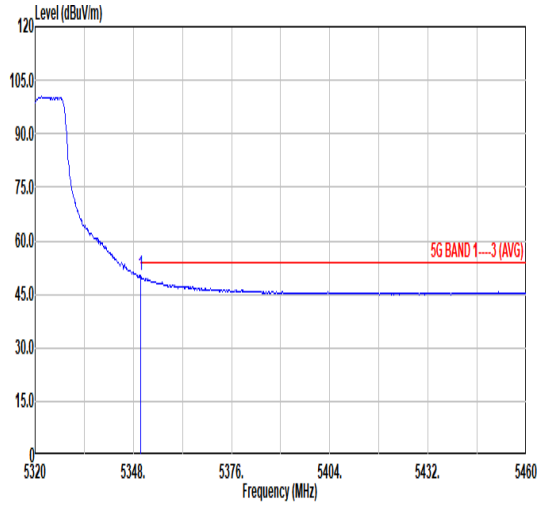
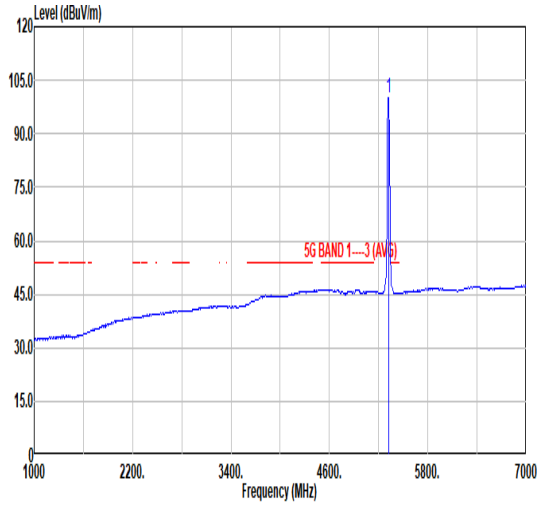
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 50.45 68.30 -17.85 60.56 37.64 14.13 61.88 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 50.10 68.30 -18.20 60.21 37.64 14.13 61.88 0.00 100 360 PEAK

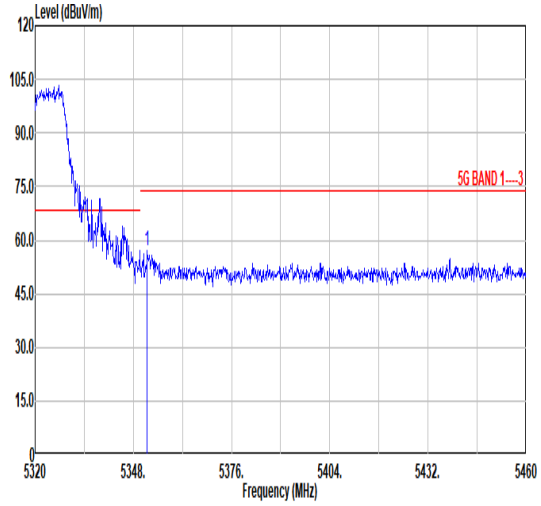
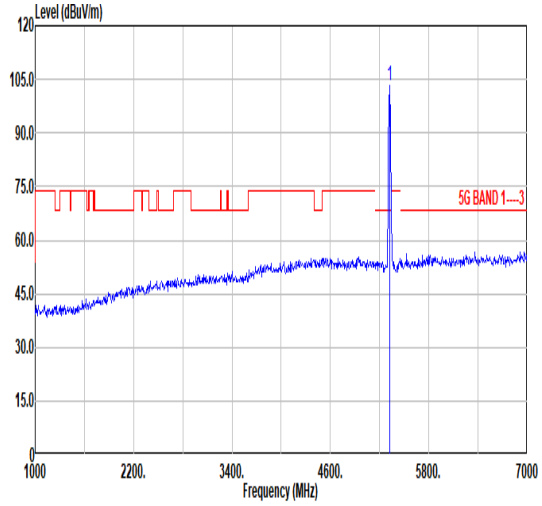
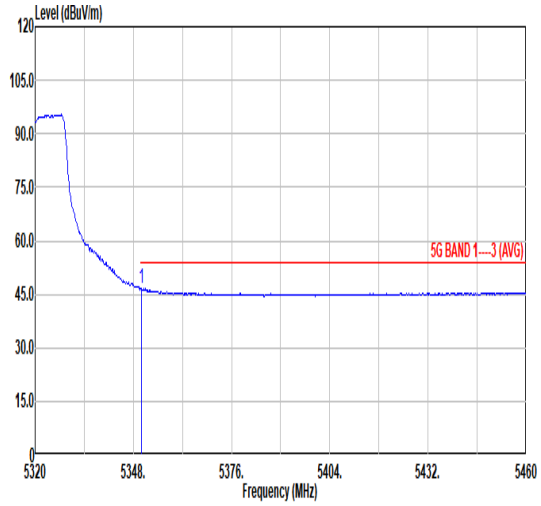
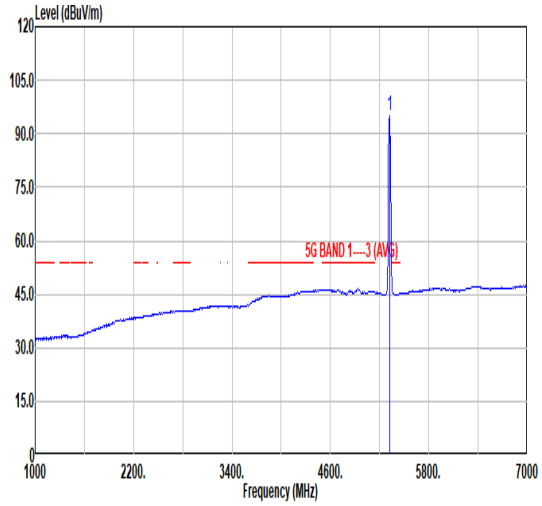
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 49.29 68.30 -19.01 59.16 37.68 14.18 61.73 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 48.34 68.30 -19.96 58.21 37.68 14.18 61.73 0.00 100 360 PEAK

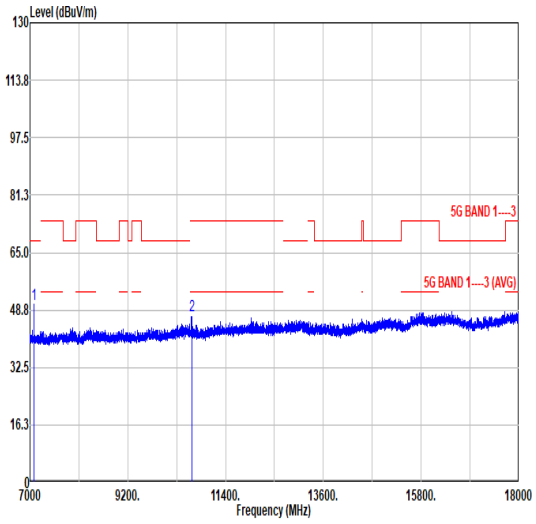
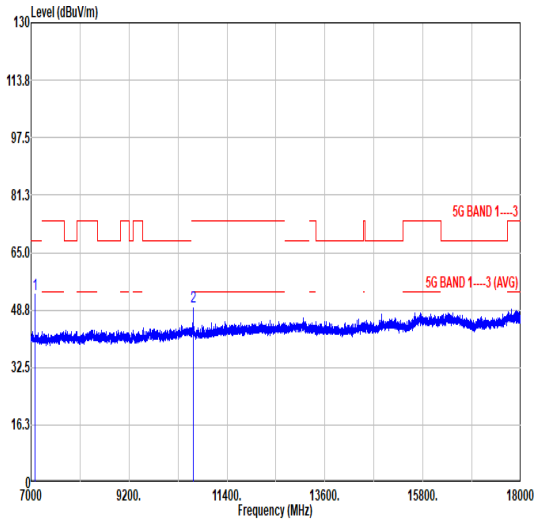
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10480.00 48.38 68.30 -19.92 58.14 37.69 14.21 61.66 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10480.00 48.32 68.30 -19.98 58.08 37.69 14.21 61.66 0.00 100 360 PEAK

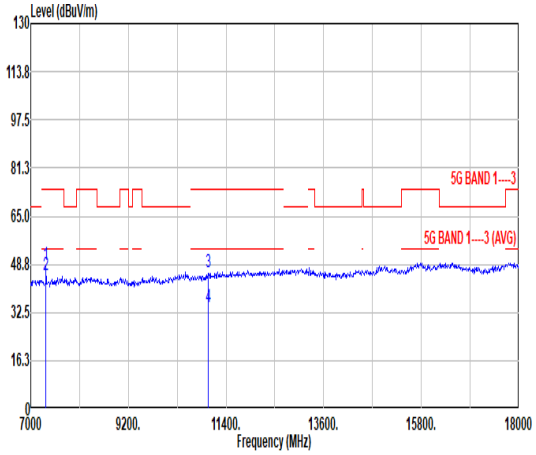
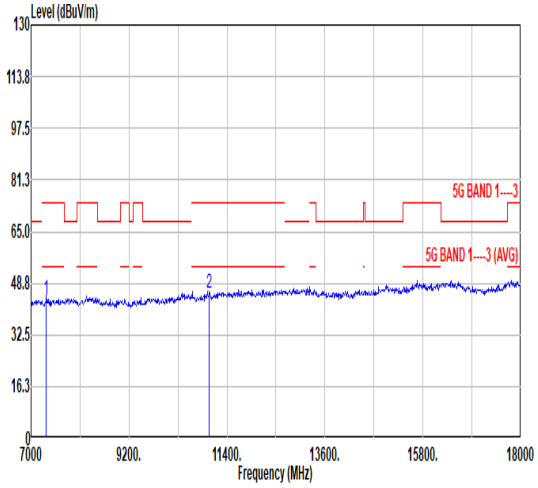
Mode	4	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7022.00 58.23 68.30 -10.07 73.05 35.70 11.51 62.03 0.00 100 61 Peak 2 10520.00 48.90 68.30 -19.40 58.57 37.71 14.24 61.62 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7022.00 55.37 68.30 -12.93 70.19 35.70 11.51 62.03 0.00 100 262 Peak 2 10520.00 47.24 68.30 -21.06 56.91 37.71 14.24 61.62 0.00 100 360 PEAK

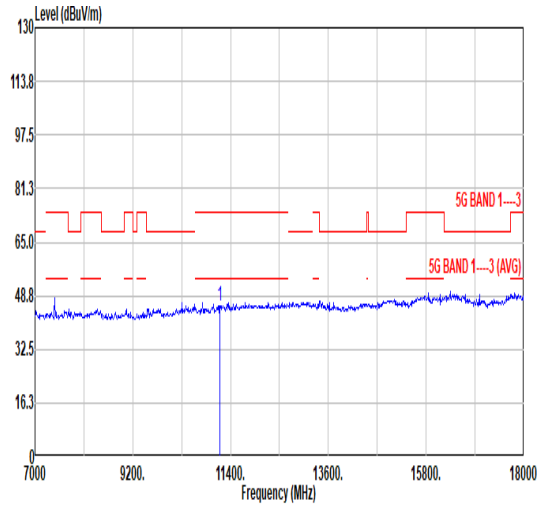
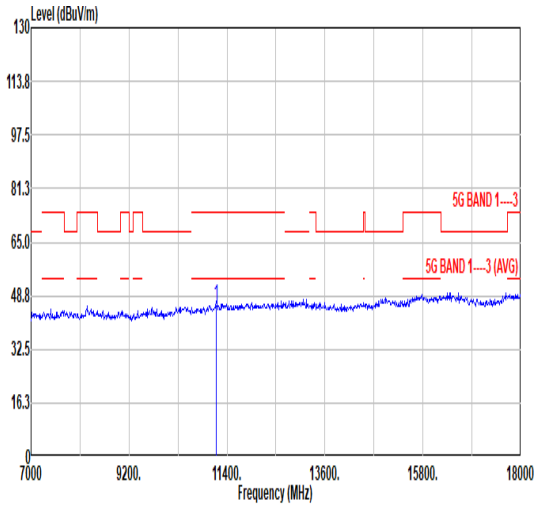
Mode	5	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7077.00 57.63 68.30 -10.67 72.41 35.70 11.55 62.03 0.00 100 64 Peak 2 10600.01 47.87 74.00 -26.13 57.46 37.76 14.29 61.64 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7077.00 54.48 68.30 -13.82 69.26 35.70 11.55 62.03 0.00 100 280 Peak 2 10600.01 53.11 74.00 -20.89 62.70 37.76 14.29 61.64 0.00 101 264 PEAK 3 10600.01 40.30 54.00 -13.70 49.89 37.76 14.29 61.64 0.00 101 264 AVERAGE

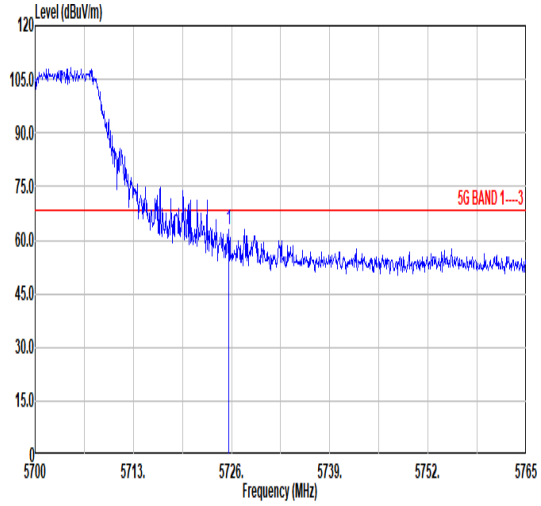
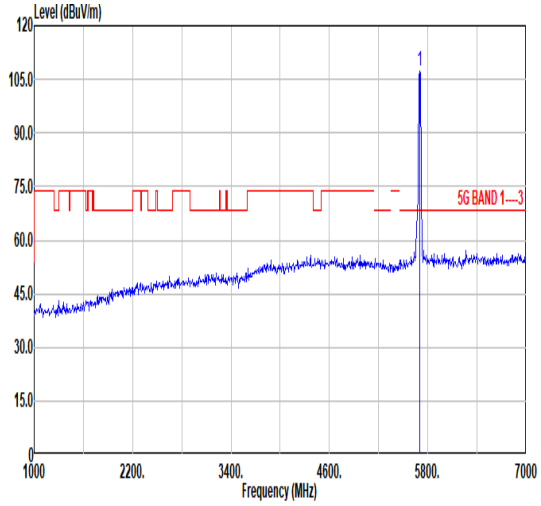
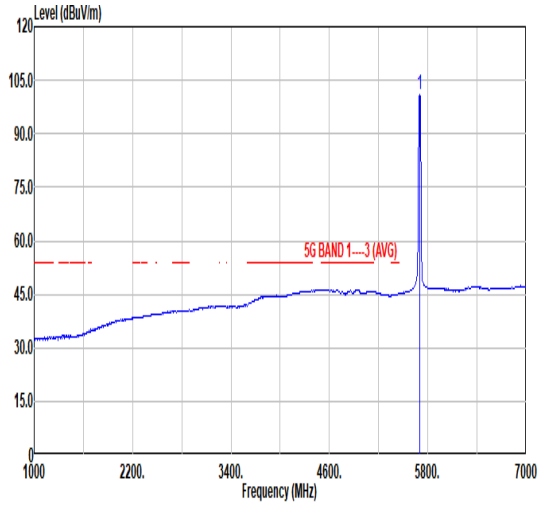
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5352.76 60.77 74.00 -13.23 47.01 34.78 12.05 33.07 0.00 100 257 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5320.00 107.86 ------ ------ 94.16 34.76 12.02 33.08 0.00 100 257 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5350.10 50.08 54.00 -3.92 36.32 34.78 12.05 33.07 0.00 100 257 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5320.00 100.09 ------ ------ 86.39 34.76 12.02 33.08 0.00 100 257 AVERAGE

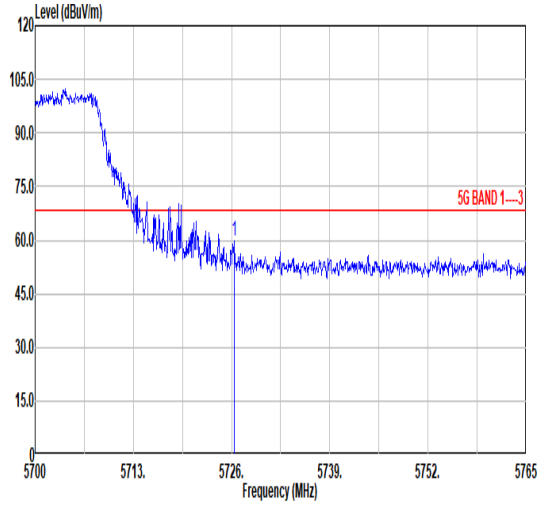
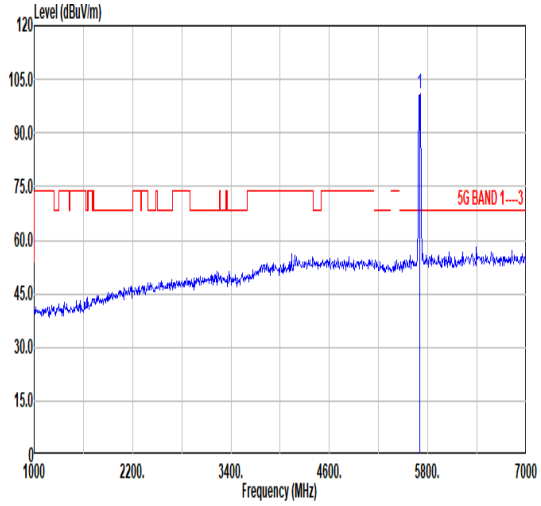
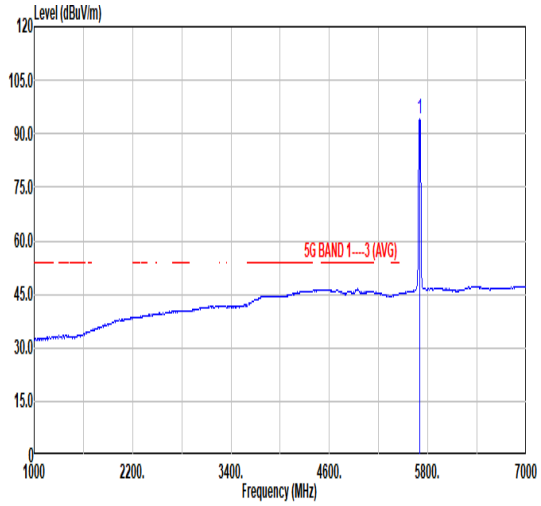
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5351.92 56.94 74.00 -17.06 43.18 34.78 12.05 33.07 0.00 376 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 103.20 ------ ------ 89.50 34.76 12.02 33.08 0.00 376 0 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.24 46.60 54.00 -7.40 32.84 34.78 12.05 33.07 0.00 376 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 95.15 ------ ------ 81.45 34.76 12.02 33.08 0.00 376 0 AVERAGE

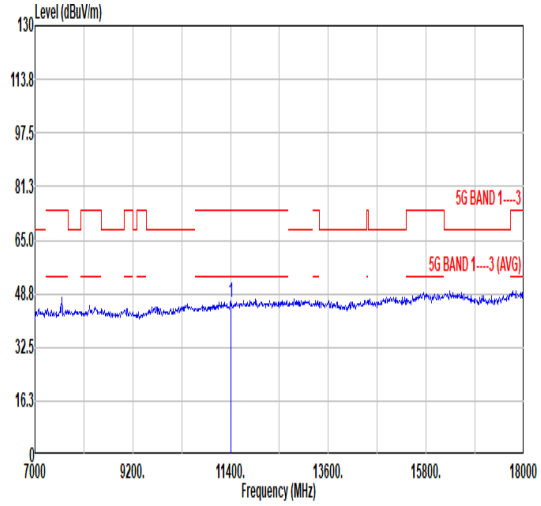
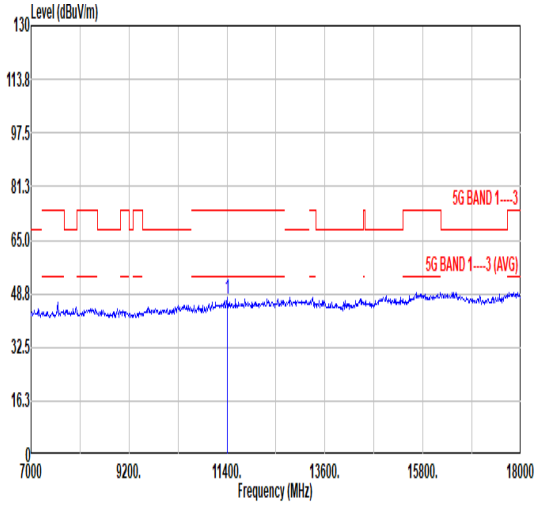
Mode	6	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7093.50 50.35 68.30 -17.95 65.12 35.70 11.56 62.03 0.00 100 218 Peak 2 10640.00 47.22 74.00 -26.78 56.77 37.78 14.32 61.65 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7093.50 53.03 68.30 -15.27 67.80 35.70 11.56 62.03 0.00 100 90 Peak 2 10640.00 49.77 74.00 -24.23 59.32 37.78 14.32 61.65 0.00 100 360 PEAK

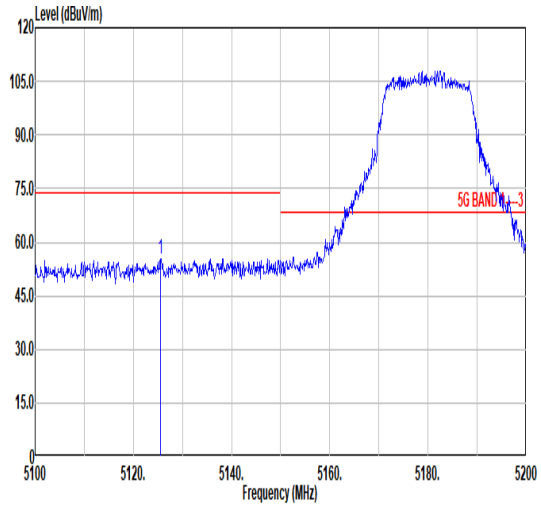
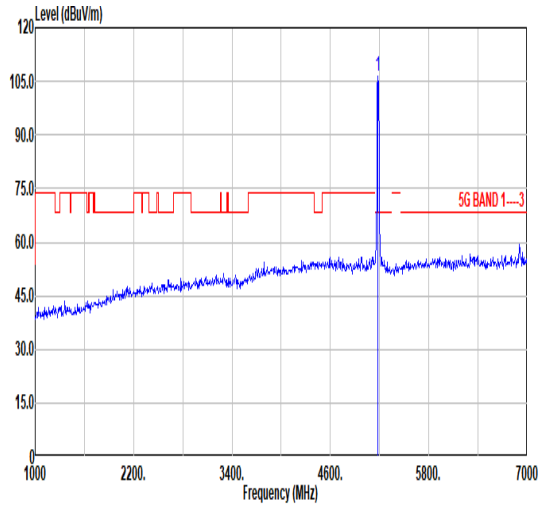
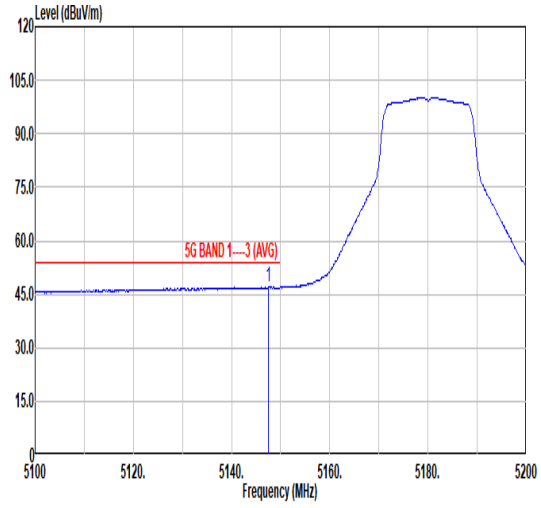
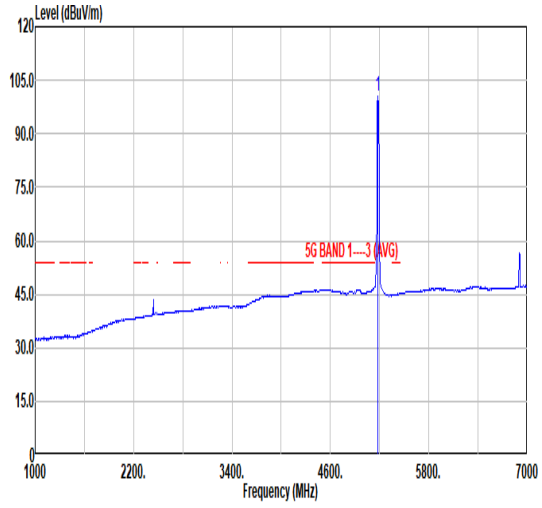
Mode	7	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7333.37 48.81 74.00 -25.19 63.47 35.70 11.70 62.06 0.00 166 74 PEAK 2 7333.37 45.36 54.00 -8.64 60.02 35.70 11.70 62.06 0.00 166 74 AVERAGE 3 11000.00 46.20 74.00 -27.80 55.35 38.00 14.56 61.71 0.00 166 74 PEAK 4 11000.00 34.53 54.00 -19.47 43.68 38.00 14.56 61.71 0.00 166 74 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7333.37 43.65 74.00 -30.35 58.31 35.70 11.70 62.06 0.00 300 0 PEAK 2 11000.00 45.46 74.00 -28.54 54.61 38.00 14.56 61.71 0.00 300 0 PEAK

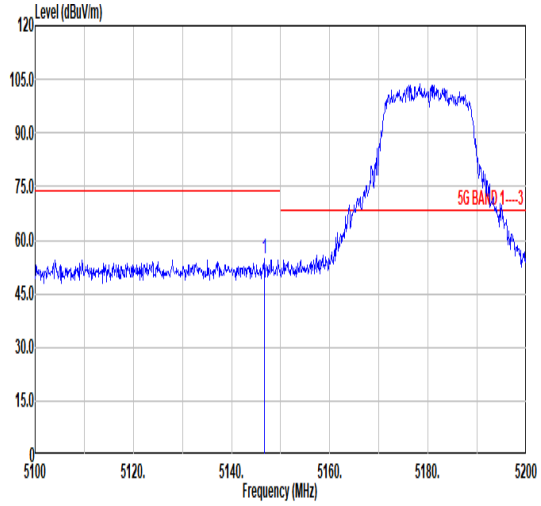
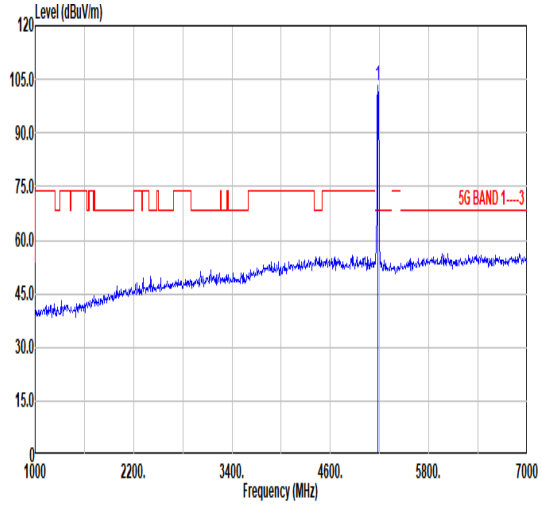
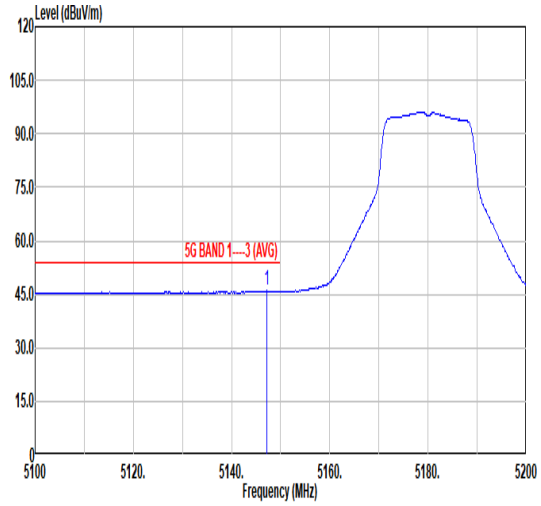
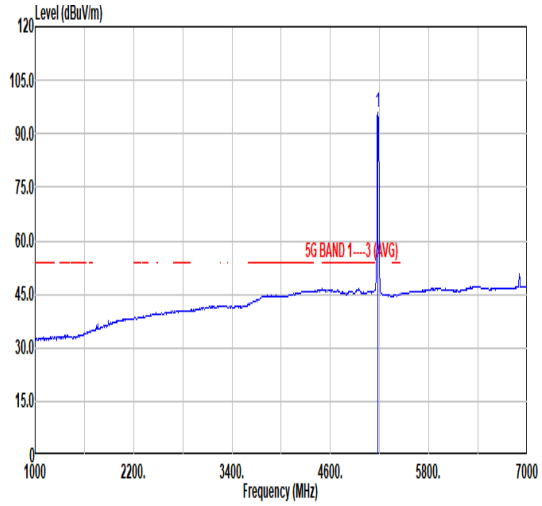
Mode	8	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11160.00 45.62 74.00 -28.38 54.49 38.10 14.68 61.65 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11160.00 46.29 74.00 -27.71 55.16 38.10 14.68 61.65 0.00 100 360 PEAK

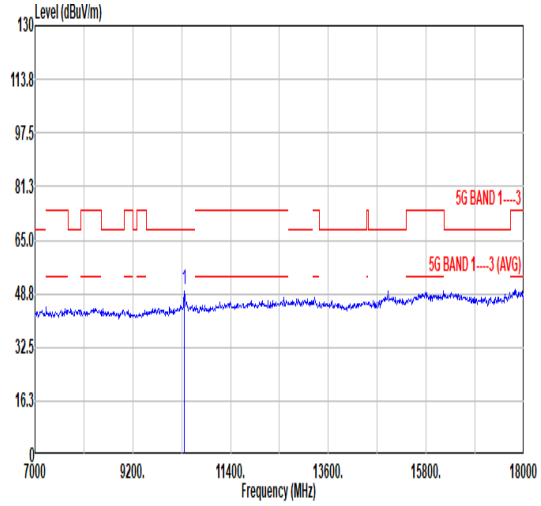
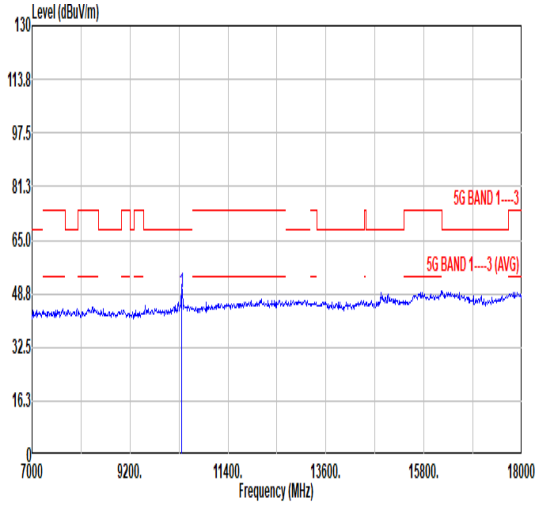
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5725.61 63.08 68.30 -5.22 48.48 35.16 12.39 32.95 0.00 100 264 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 107.53 ------ ------ 93.00 35.13 12.36 32.96 0.00 100 264 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 100.76 ------ ------ 86.23 35.13 12.36 32.96 0.00 100 264 AVERAGE

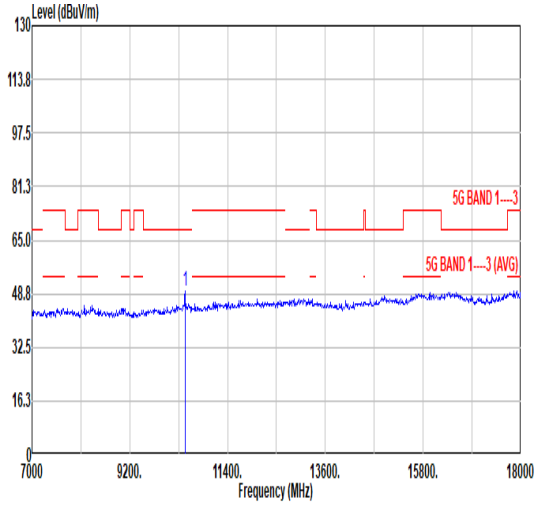
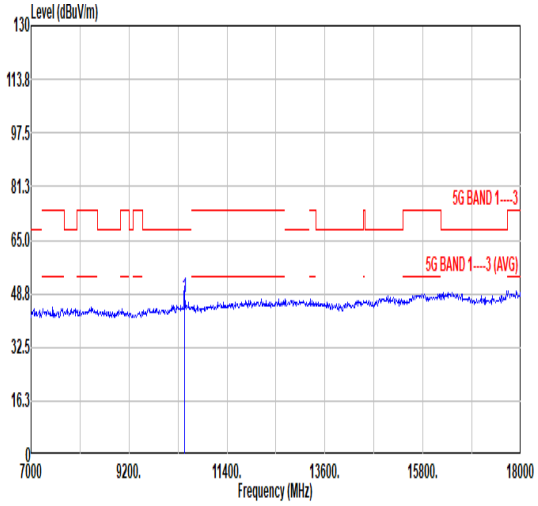
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5726.33 59.76 68.30 -8.54 45.16 35.16 12.39 32.95 0.00 100 32 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 100.76 ------ ------ 86.21 35.14 12.37 32.96 0.00 100 32 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 94.26 ------ ------ 79.73 35.13 12.36 32.96 0.00 100 32 AVERAGE

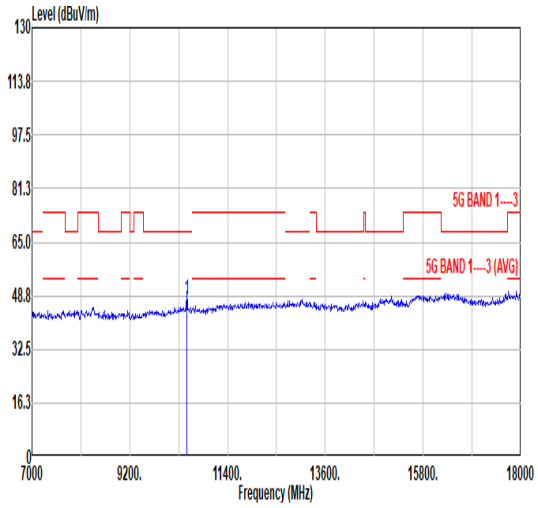
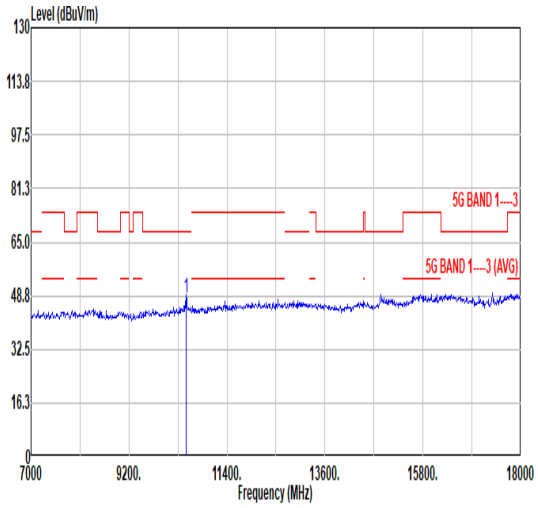
Mode	9	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 46.02 74.00 -27.98 54.48 38.24 14.85 61.55 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11400.00 47.06 74.00 -26.94 55.52 38.24 14.85 61.55 0.00 100 360 PEAK

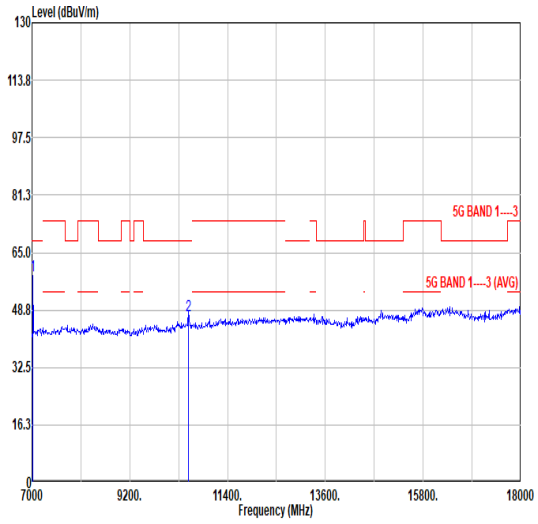
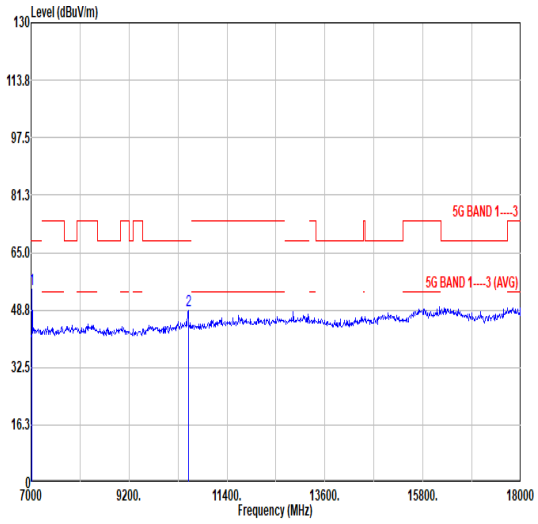
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ac VHT20_CH36_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5125.60 55.23 74.00 -18.77 41.94 34.60 11.84 33.15 0.00 100 237 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 106.56 ------ ------ 93.16 34.64 11.89 33.13 0.00 100 237 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.50 47.04 54.00 -6.96 33.70 34.62 11.86 33.14 0.00 100 237 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 100.36 ------ ------ 86.95 34.65 11.89 33.13 0.00 100 237 AVERAGE

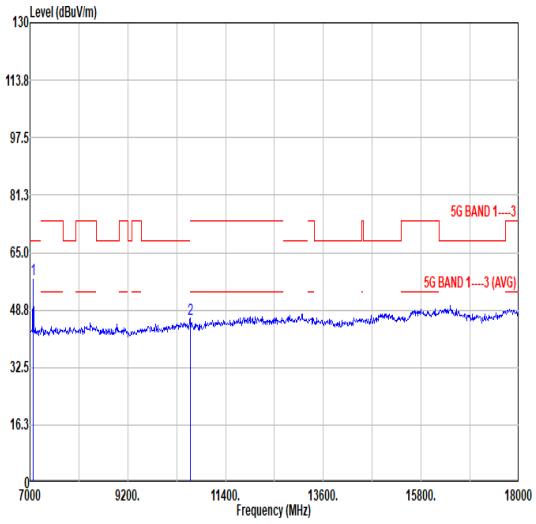
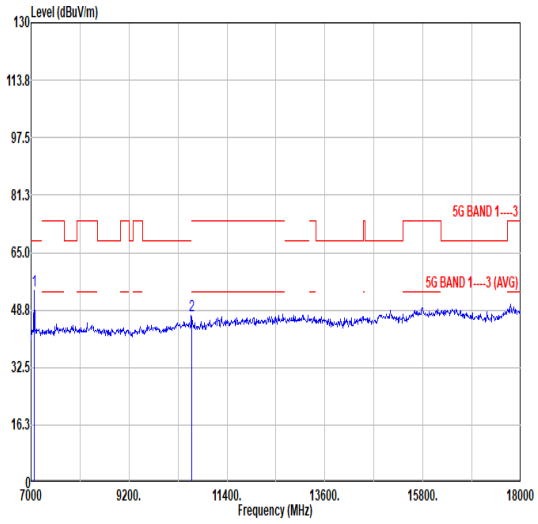
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ac VHT20_CH36_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5146.70 54.67 74.00 -19.33 41.33 34.62 11.86 33.14 0.00 399 358 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 103.06 ------ ------ 89.65 34.65 11.89 33.13 0.00 399 358 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.20 45.99 54.00 -8.01 32.65 34.62 11.86 33.14 0.00 399 358 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5180.00 96.15 ------ ------ 82.75 34.64 11.89 33.13 0.00 399 358 AVERAGE

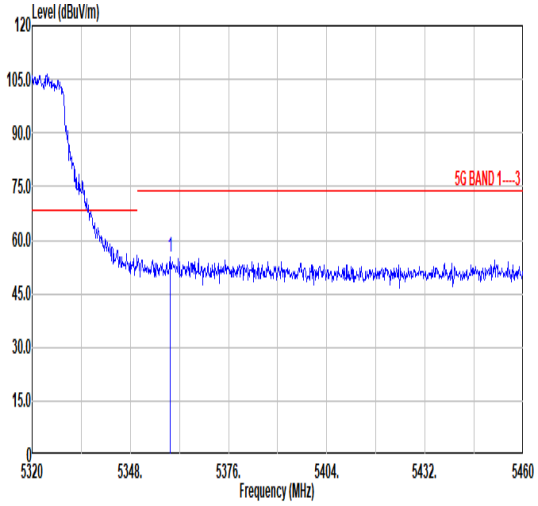
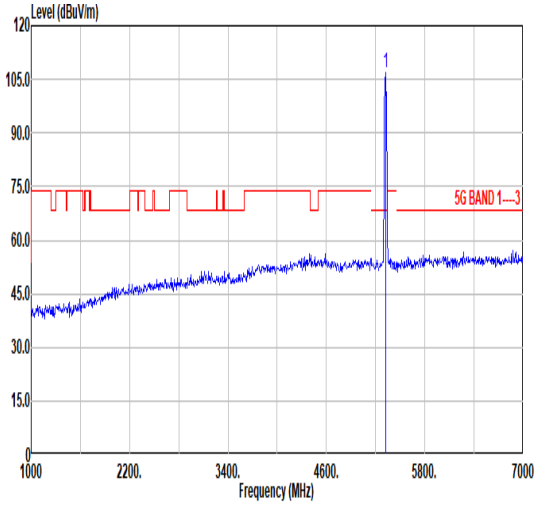
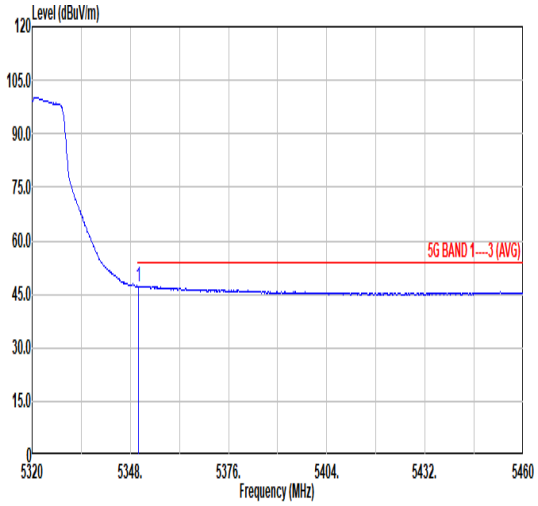
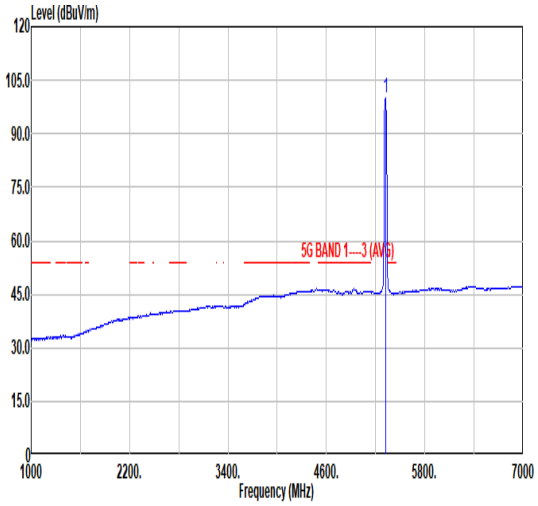
Mode	10	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT20_CH36_5180MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 49.85 68.30 -18.45 59.96 37.64 14.13 61.88 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10360.00 48.91 68.30 -19.39 59.02 37.64 14.13 61.88 0.00 100 360 PEAK

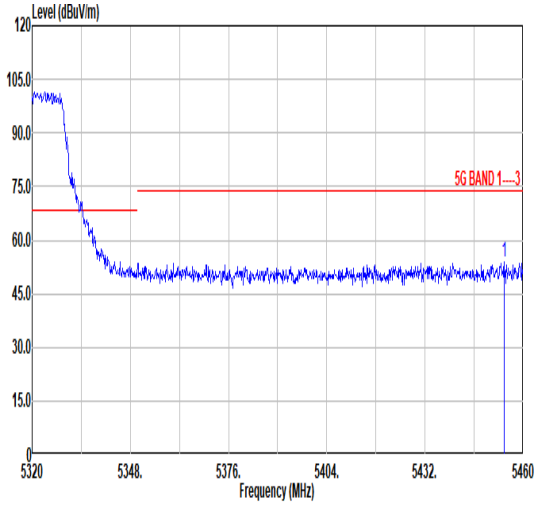
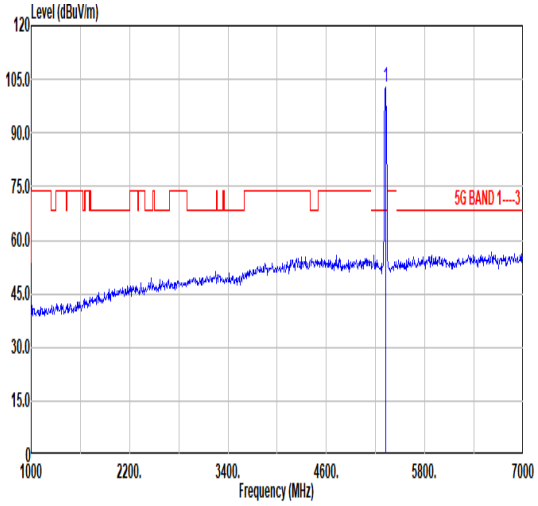
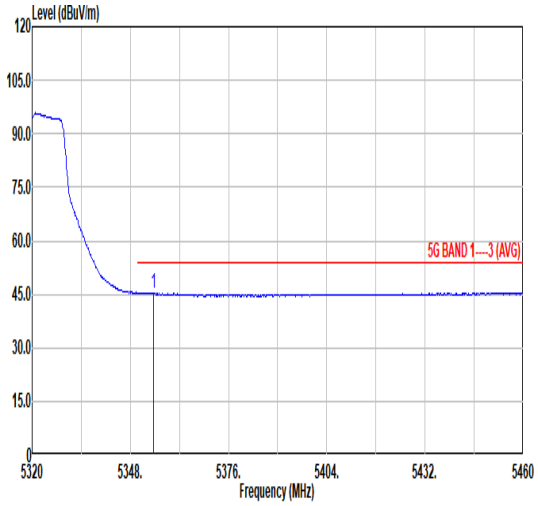
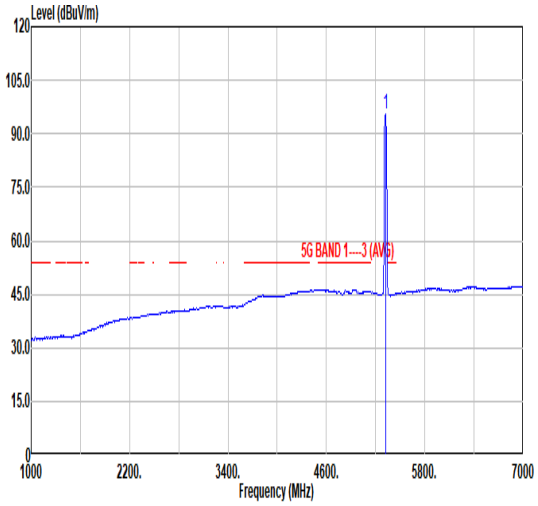
Mode	11	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT20_CH44_5220MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 49.31 68.30 -18.99 59.18 37.68 14.18 61.73 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10440.00 47.37 68.30 -20.93 57.24 37.68 14.18 61.73 0.00 100 360 PEAK

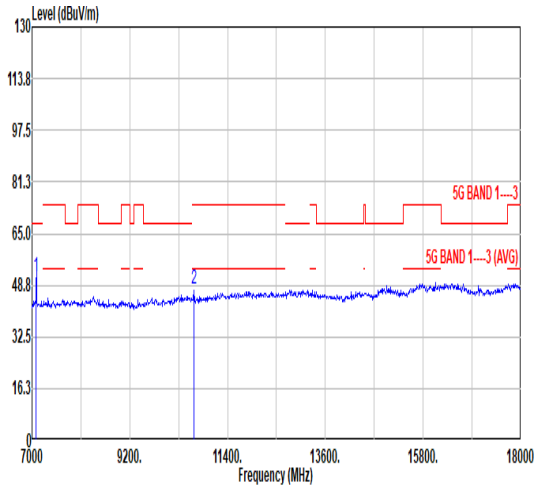
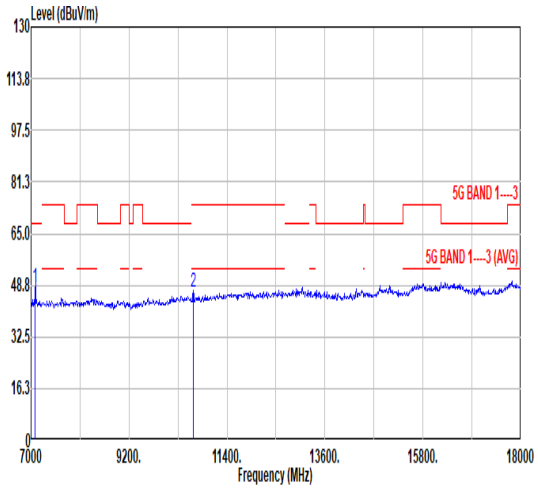
Mode	12	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT20_CH48_5240MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10480.00 47.80 68.30 -20.50 57.56 37.69 14.21 61.66 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10480.00 47.85 68.30 -20.45 57.61 37.69 14.21 61.66 0.00 100 360 PEAK

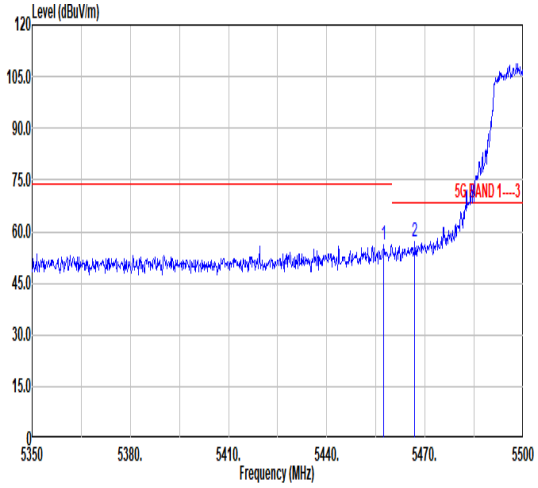
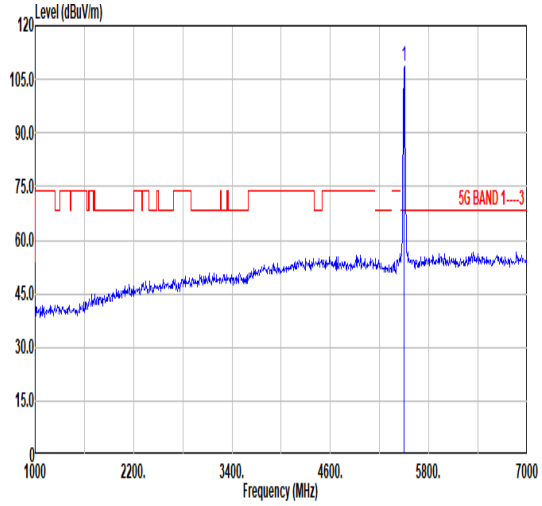
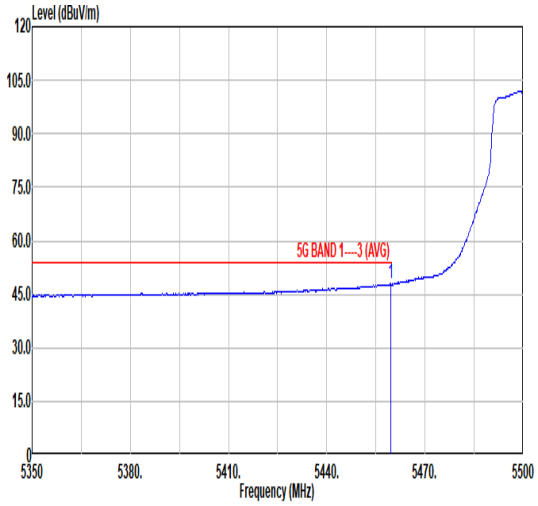
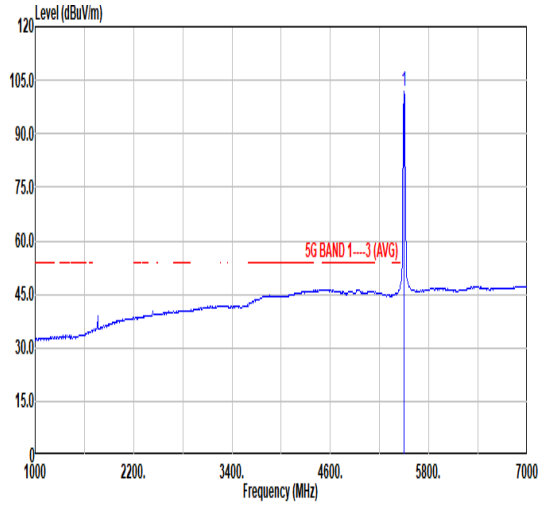
Mode	13	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH52_5260MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7022.00 58.53 68.30 -9.77 73.35 35.70 11.51 62.03 0.00 100 64 Peak 2 10520.00 47.37 68.30 -20.93 57.04 37.71 14.24 61.62 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7022.00 54.66 68.30 -13.64 69.48 35.70 11.51 62.03 0.00 100 260 Peak 2 10531.00 48.57 68.30 -19.73 58.23 37.72 14.24 61.62 0.00 100 256 Peak

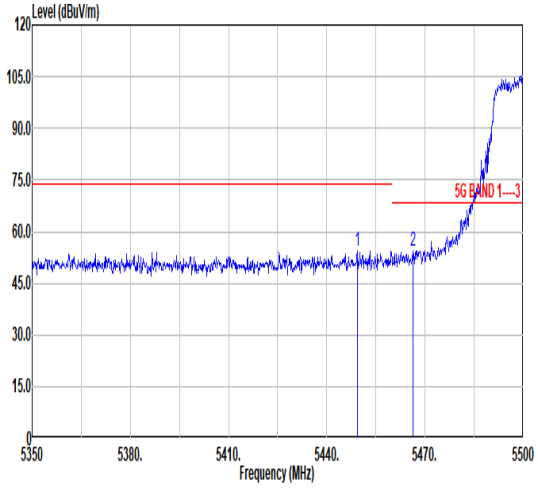
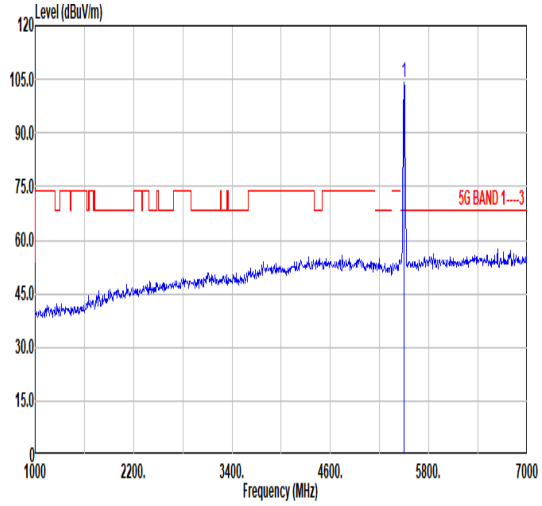
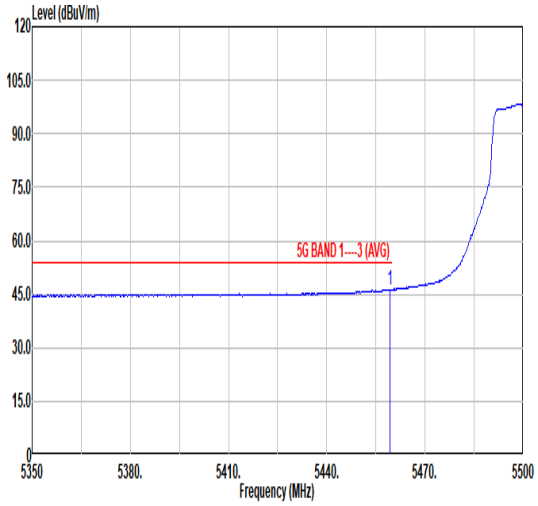
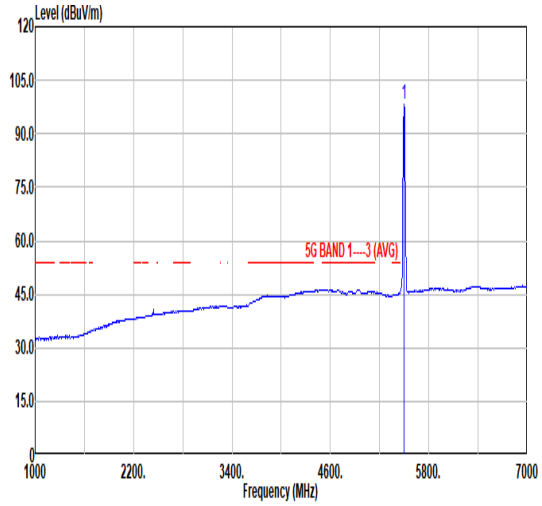
Mode	14	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH60_5300MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7077.00 57.44 68.30 -10.86 72.22 35.70 11.55 62.03 0.00 100 60 Peak 2 10600.01 46.28 74.00 -27.72 55.87 37.76 14.29 61.64 0.00 100 360 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7077.00 54.18 68.30 -14.12 68.96 35.70 11.55 62.03 0.00 100 277 Peak 2 10600.01 47.26 74.00 -26.74 56.85 37.76 14.29 61.64 0.00 100 269 Peak

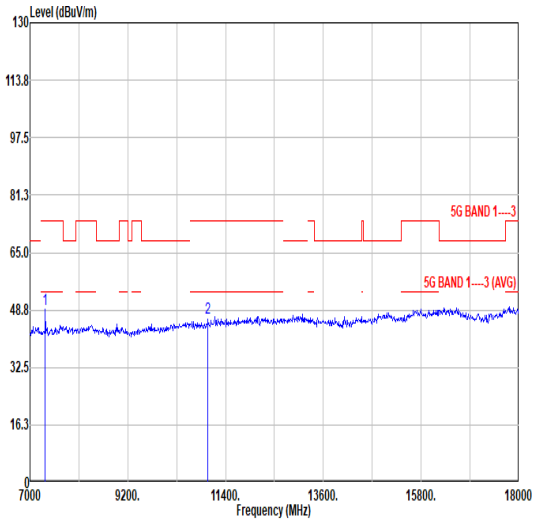
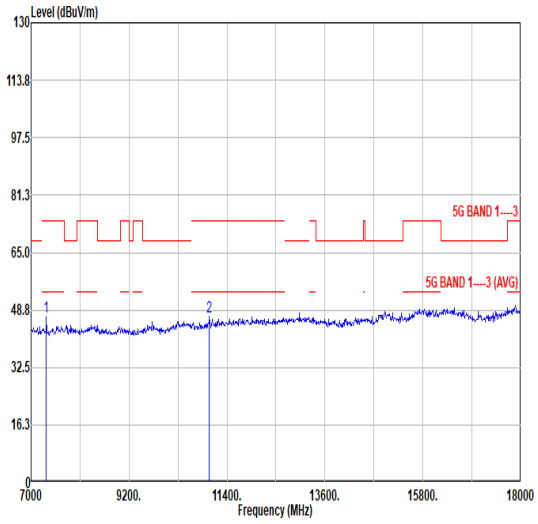
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5359.34 55.39 74.00 -18.61 41.62 34.79 12.05 33.07 0.00 111 263 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 106.81 ------ ------ 93.11 34.76 12.02 33.08 0.00 111 263 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.24 47.31 54.00 -6.69 33.55 34.78 12.05 33.07 0.00 111 263 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 99.92 ------ ------ 86.22 34.76 12.02 33.08 0.00 111 263 AVERAGE

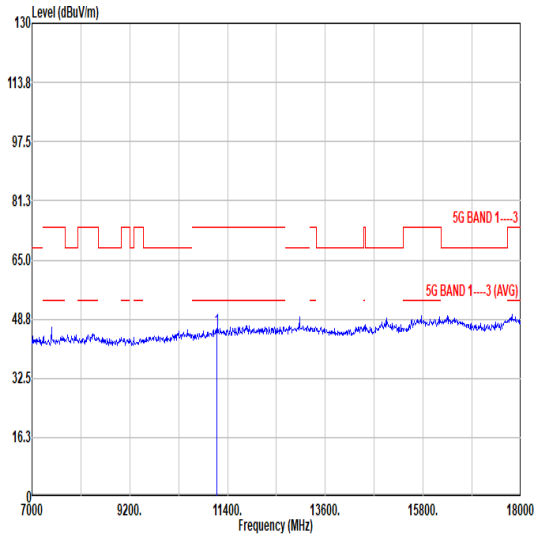
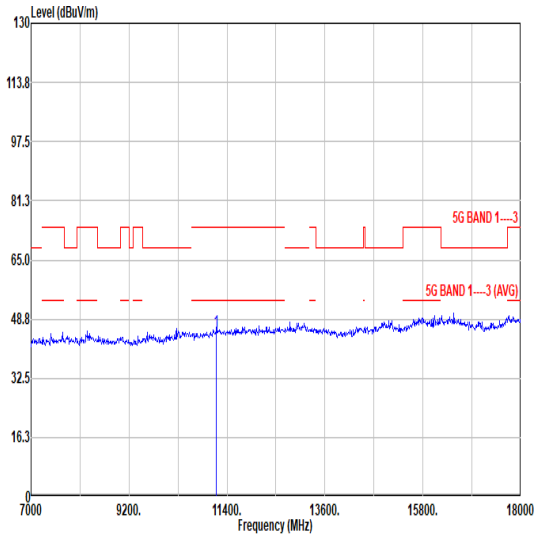
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5454.54 53.75 74.00 -20.25 39.79 34.86 12.14 33.04 0.00 396 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 102.89 ------ ------ 89.19 34.76 12.02 33.08 0.00 396 360 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5354.58 45.47 54.00 -8.53 31.71 34.78 12.05 33.07 0.00 396 360 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5320.00 95.43 ------ ------ 81.73 34.76 12.02 33.08 0.00 396 360 AVERAGE

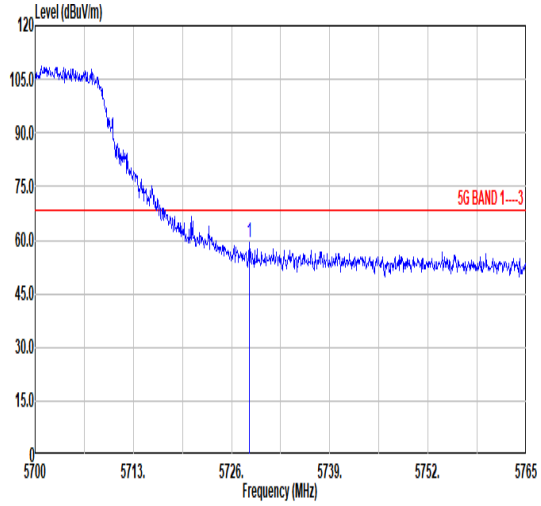
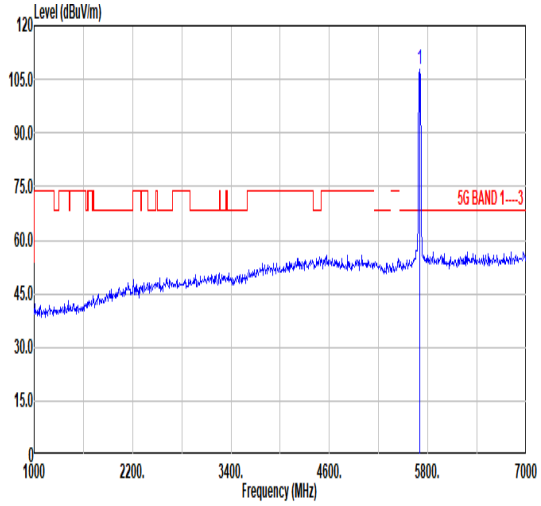
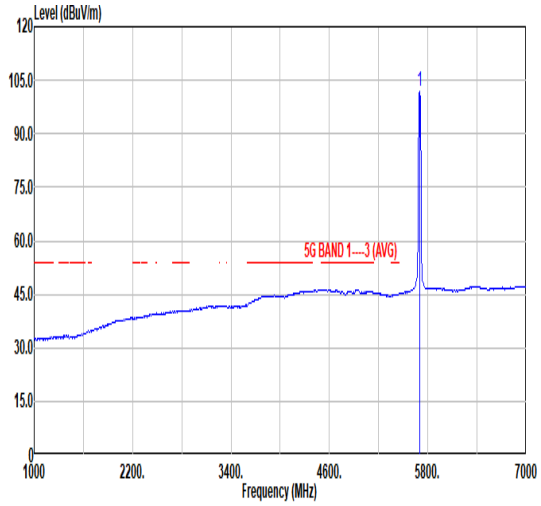
Mode	15	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT20_CH64_5320MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7093.69 51.51 68.30 -16.79 66.28 35.70 11.56 62.03 0.00 300 360 PEAK 2 10640.00 47.68 74.00 -26.32 57.23 37.78 14.32 61.65 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7093.69 48.29 68.30 -20.01 63.06 35.70 11.56 62.03 0.00 100 360 PEAK 2 10640.00 46.84 74.00 -27.16 56.39 37.78 14.32 61.65 0.00 100 360 PEAK

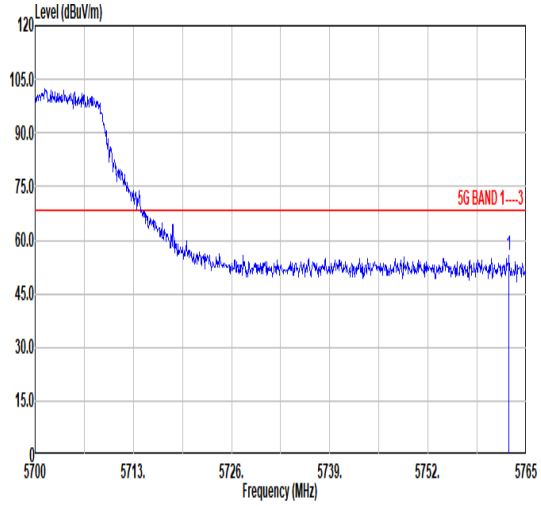
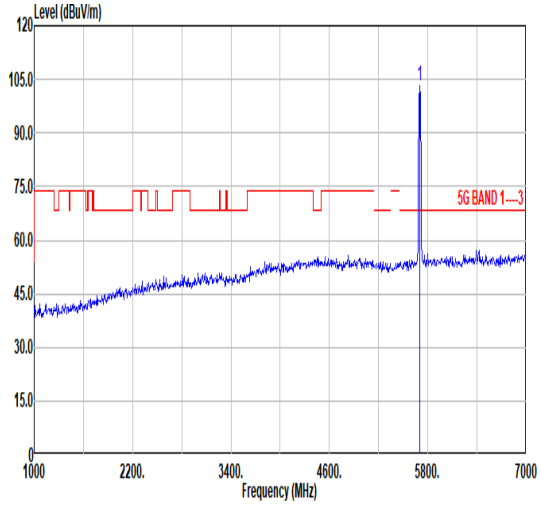
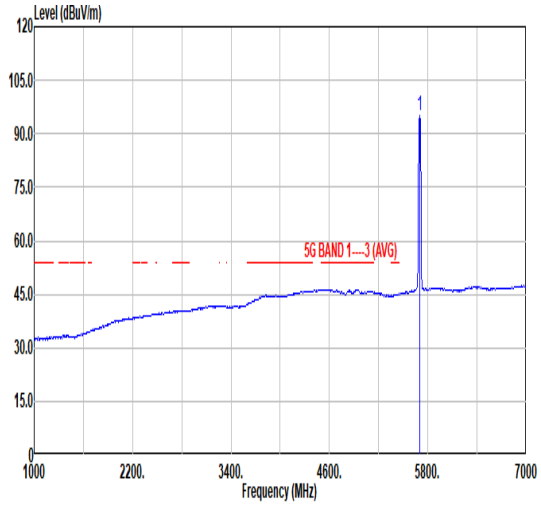
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH100_5500MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5457.40 56.02 74.00 -17.98 42.04 34.87 12.15 33.04 0.00 100 266 PEAK 2 5466.85 57.06 68.30 -11.24 43.06 34.87 12.16 33.03 0.00 100 266 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5500.00 108.72 ------ ------ 94.63 34.91 12.20 33.02 0.00 100 266 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.50 47.87 54.00 -6.13 33.89 34.87 12.15 33.04 0.00 100 266 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5500.00 101.69 ------ ------ 87.62 34.90 12.19 33.02 0.00 100 266 AVERAGE

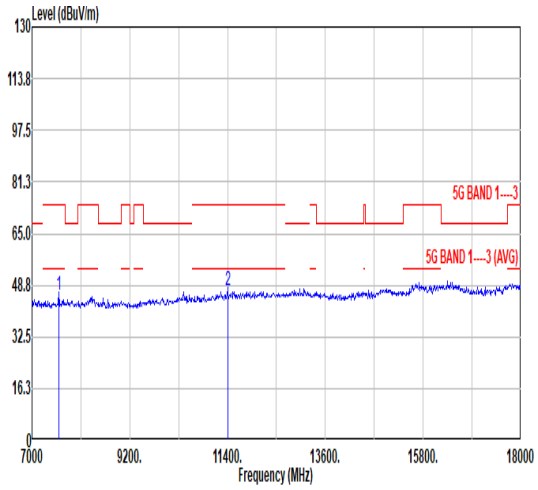
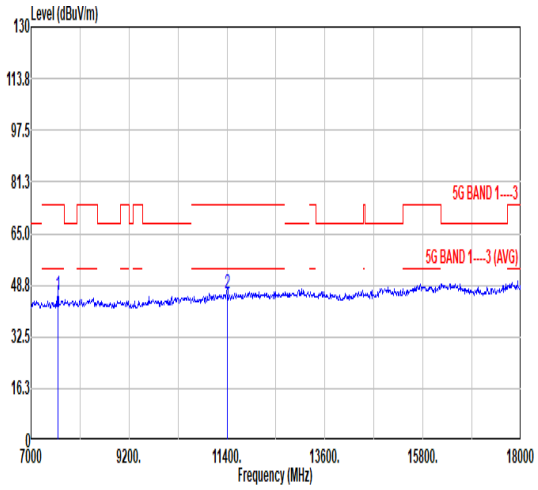
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH100_5500MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5449.30 54.31 74.00 -19.69 40.35 34.86 12.14 33.04 0.00 393 13 PEAK 2 5466.25 54.35 68.30 -13.95 40.35 34.87 12.16 33.03 0.00 393 13 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5500.00 104.37 ------ ------ 90.30 34.90 12.19 33.02 0.00 393 13 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.35 46.38 54.00 -7.62 32.40 34.87 12.15 33.04 0.00 393 13 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5500.00 98.38 ------ ------ 84.31 34.90 12.19 33.02 0.00 393 13 AVERAGE

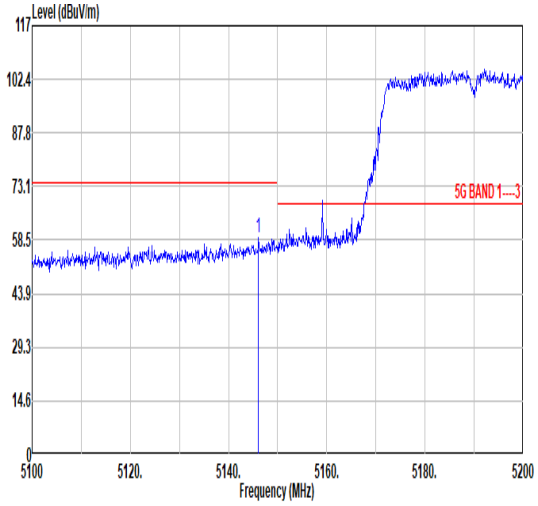
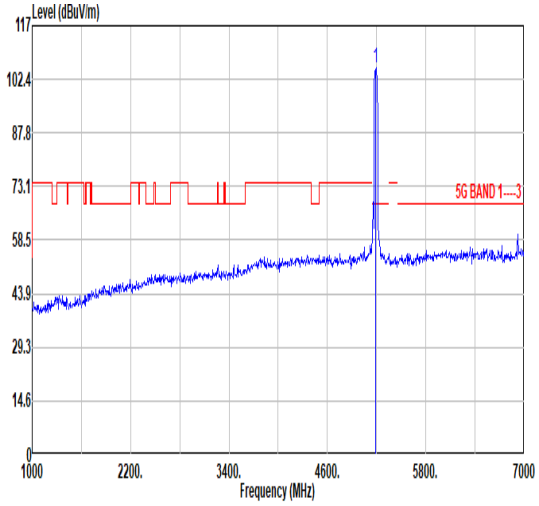
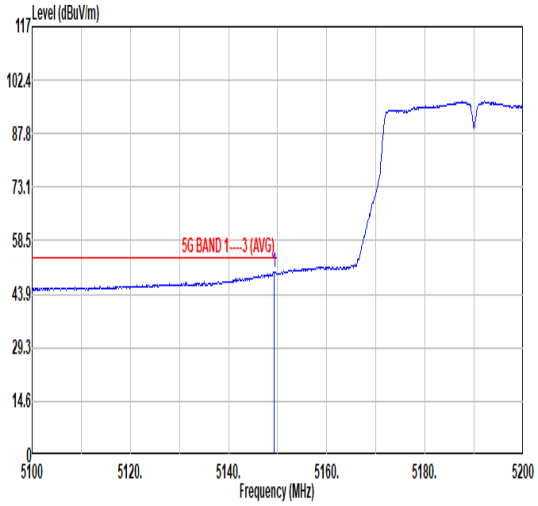
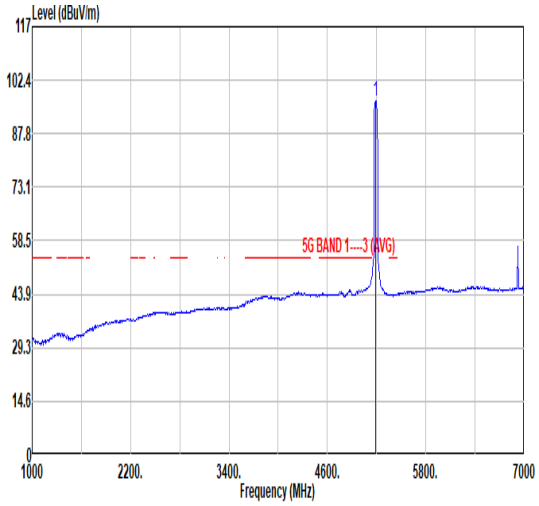
Mode	16	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH100_5500MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7341.00 48.88 74.00 -25.12 63.54 35.70 11.70 62.06 0.00 100 44 Peak 2 11000.00 46.59 74.00 -27.41 55.74 38.00 14.56 61.71 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7341.00 46.81 74.00 -27.19 61.47 35.70 11.70 62.06 0.00 100 261 Peak 2 11000.00 47.00 74.00 -27.00 56.15 38.00 14.56 61.71 0.00 100 188 Peak

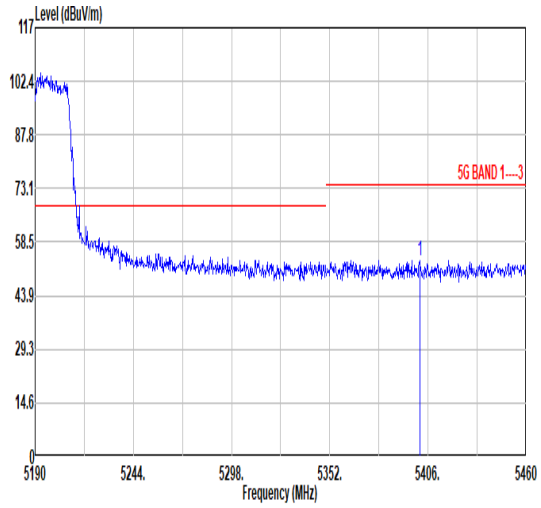
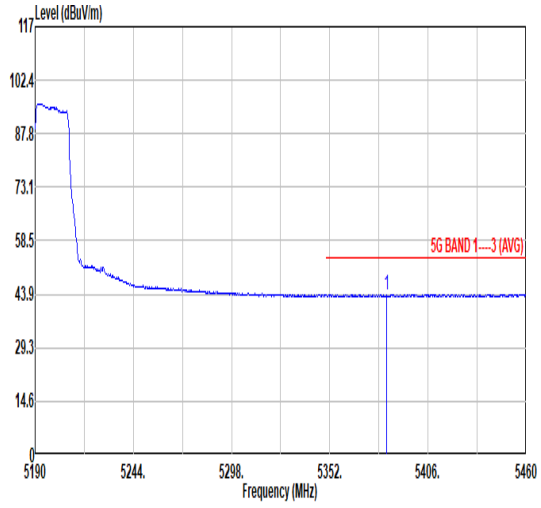
Mode	17	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH116_5580MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11160.00 45.66 74.00 -28.34 54.53 38.10 14.68 61.65 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11160.00 45.57 74.00 -28.43 54.44 38.10 14.68 61.65 0.00 100 360 PEAK

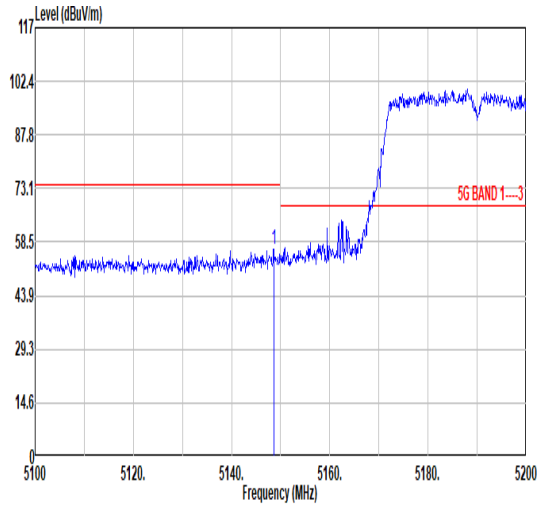
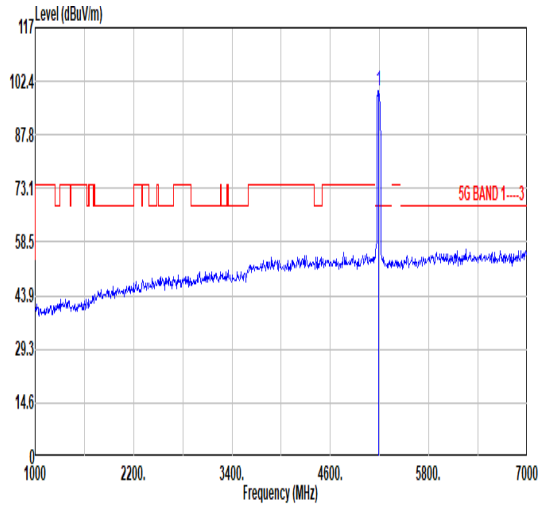
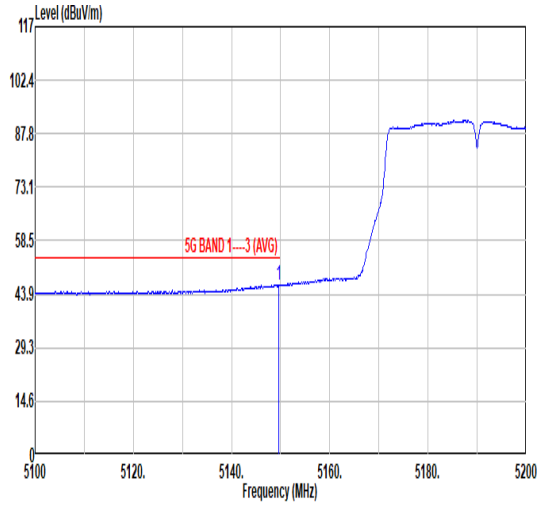
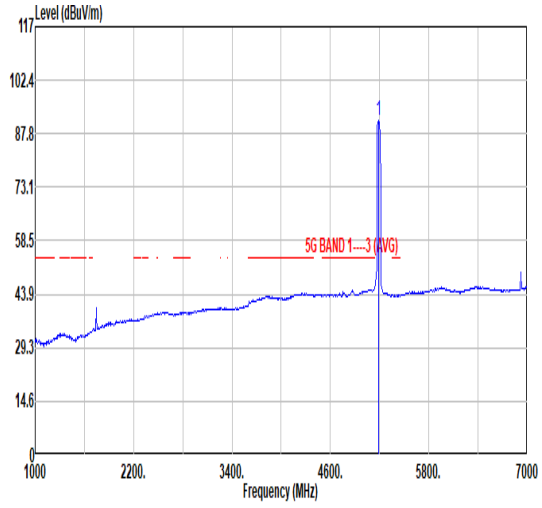
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH140_5700MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5728.34 59.22 68.30 -9.08 44.62 35.16 12.39 32.95 0.00 100 240 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 107.95 ------ ------ 93.42 35.13 12.36 32.96 0.00 100 240 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 102.04 ------ ------ 87.51 35.13 12.36 32.96 0.00 100 240 AVERAGE

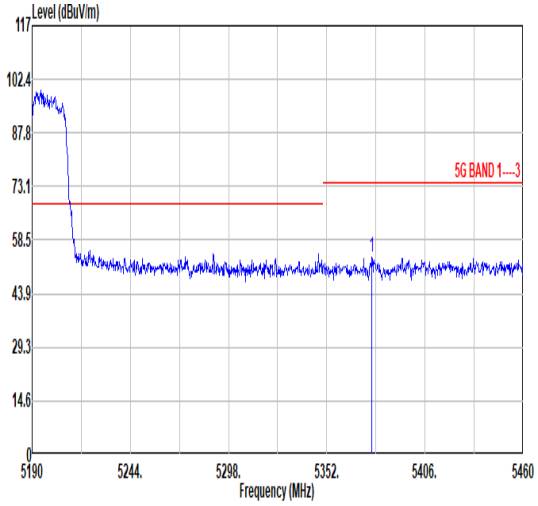
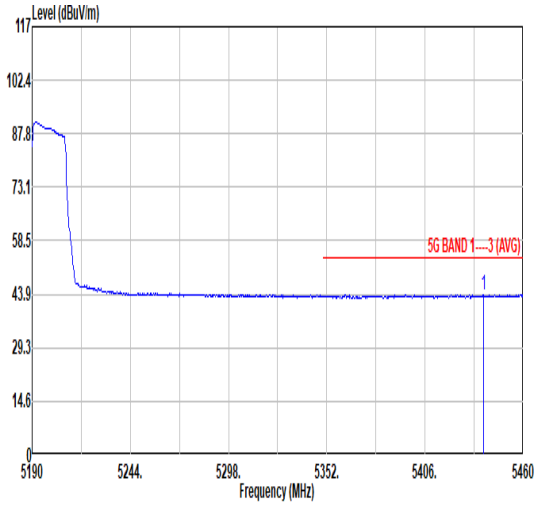
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH140_5700MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5762.73 55.90 68.30 -12.40 41.20 35.21 12.43 32.94 0.00 100 39 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 103.15 ------ ------ 88.62 35.13 12.36 32.96 0.00 100 39 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5700.00 95.25 ------ ------ 80.72 35.13 12.36 32.96 0.00 100 39 AVERAGE

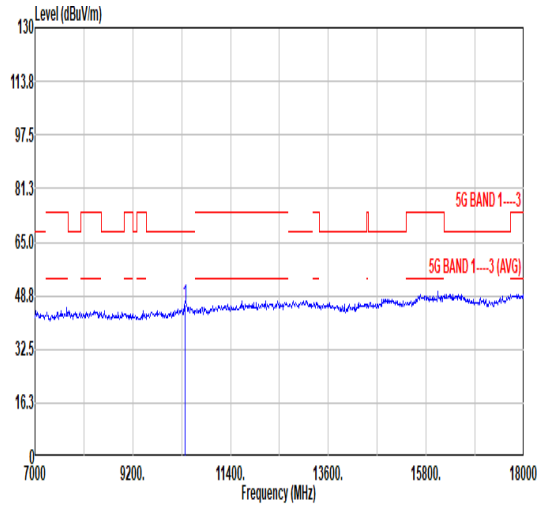
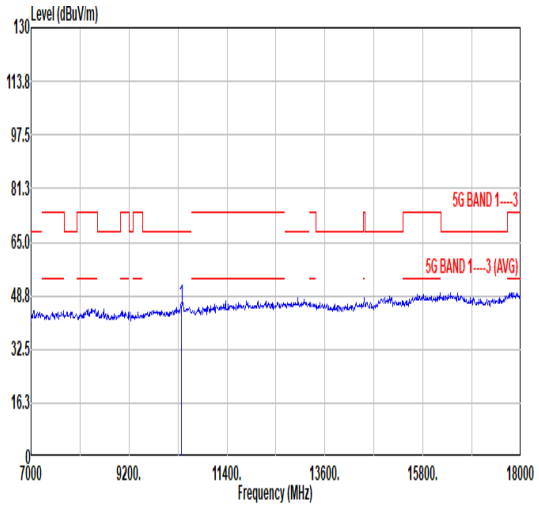
Mode	18	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT20_CH140_5700MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7599.81 45.68 74.00 -28.32 59.98 35.80 11.95 62.05 0.00 300 360 PEAK 2 11400.00 46.91 74.00 -27.09 55.37 38.24 14.85 61.55 0.00 300 360 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7599.81 45.81 74.00 -28.19 60.11 35.80 11.95 62.05 0.00 100 360 PEAK 2 11400.00 46.10 74.00 -27.90 54.56 38.24 14.85 61.55 0.00 100 360 PEAK

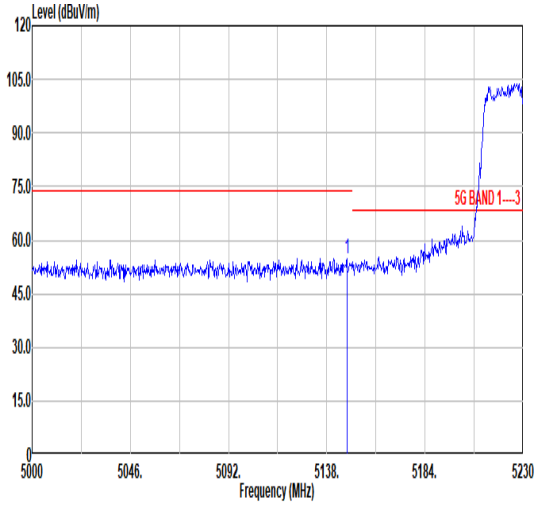
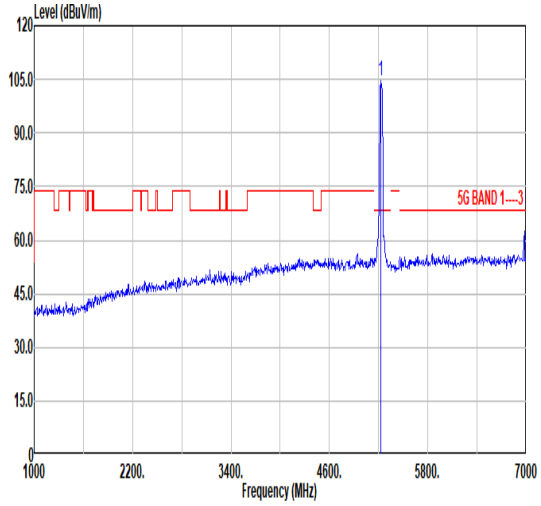
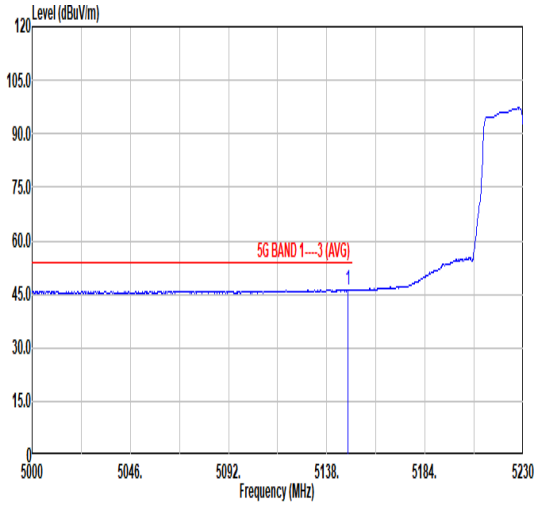
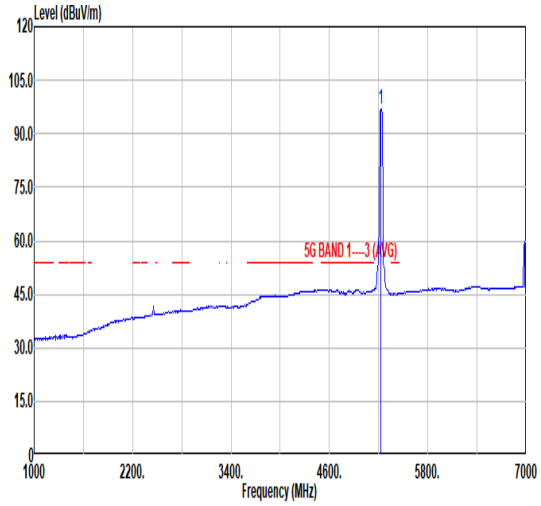
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH38_5190MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5146.10 58.95 74.00 -15.05 46.87 34.10 9.78 31.80 0.00 102 232 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5190.00 105.33 ------ ------ 93.23 34.10 9.83 31.83 0.00 102 232 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5149.30 50.03 54.00 -3.97 37.94 34.10 9.79 31.80 0.00 102 232 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5190.00 96.49 ------ ------ 84.40 34.10 9.82 31.83 0.00 102 232 AVERAGE

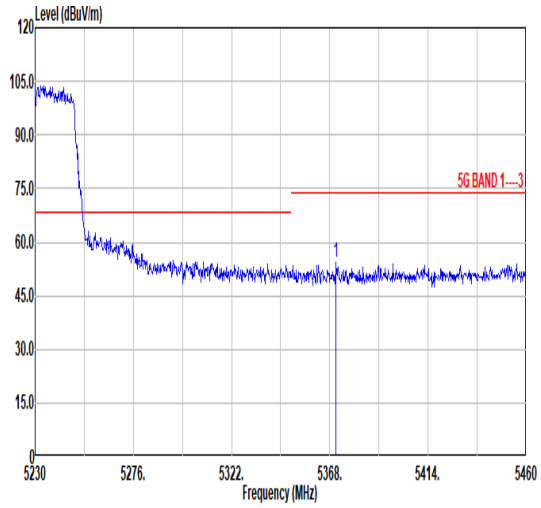
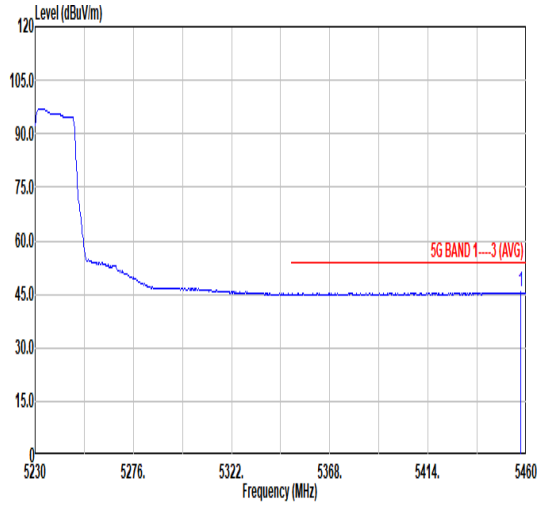
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH38_5190MHz	
Pol.	Horizontal	Fundamental
Peak	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5401.41 53.33 74.00 -20.67 40.55 34.80 9.94 31.96 0.00 102 232 PEAK	Blank
Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5383.32 43.92 54.00 -10.08 31.19 34.74 9.93 31.94 0.00 102 232 AVERAGE	Blank

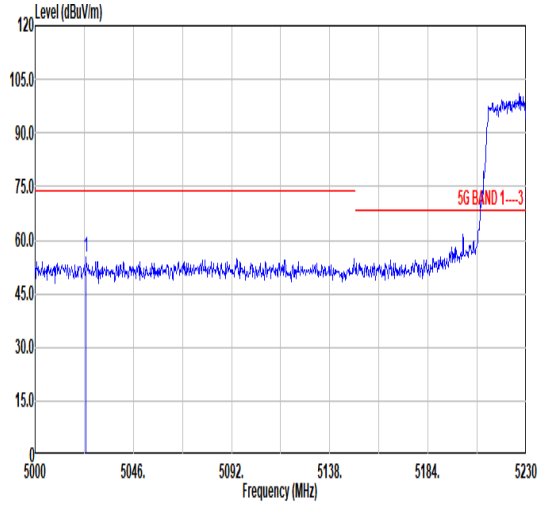
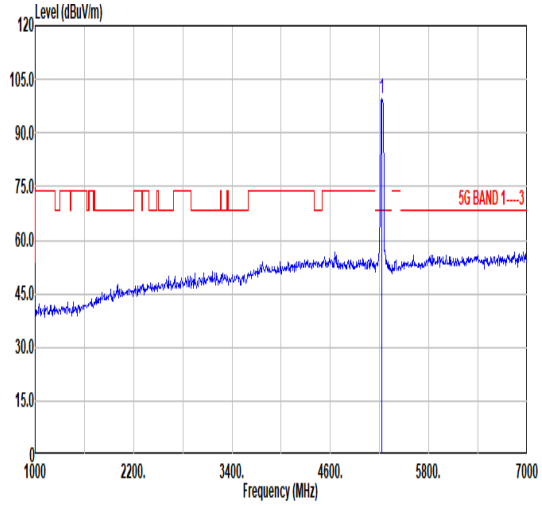
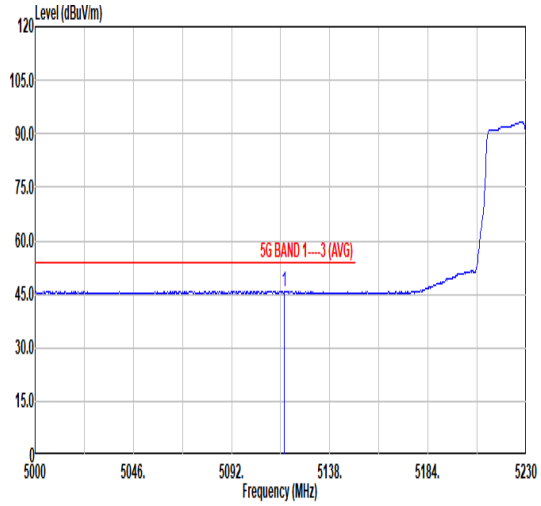
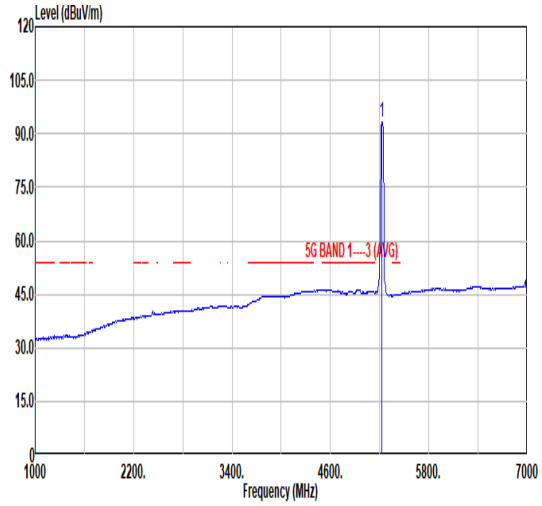
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH38_5190MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5148.60 56.70 74.00 -17.30 44.61 34.10 9.79 31.80 0.00 379 23 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5190.00 99.81 ------ ------ 87.72 34.10 9.82 31.83 0.00 379 23 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.60 46.50 54.00 -7.50 34.41 34.10 9.79 31.80 0.00 379 23 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5190.00 91.49 ------ ------ 79.40 34.10 9.82 31.83 0.00 379 23 AVERAGE

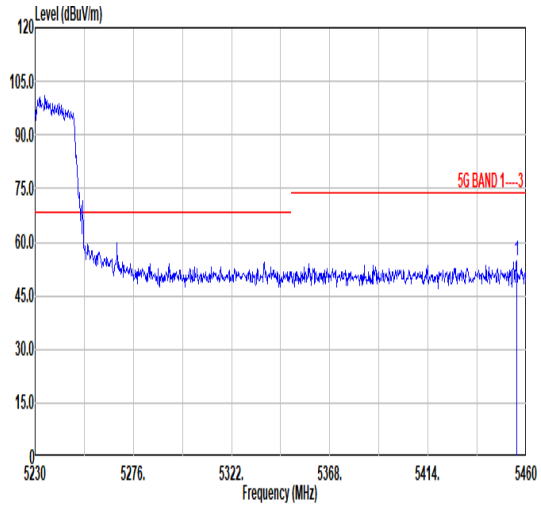
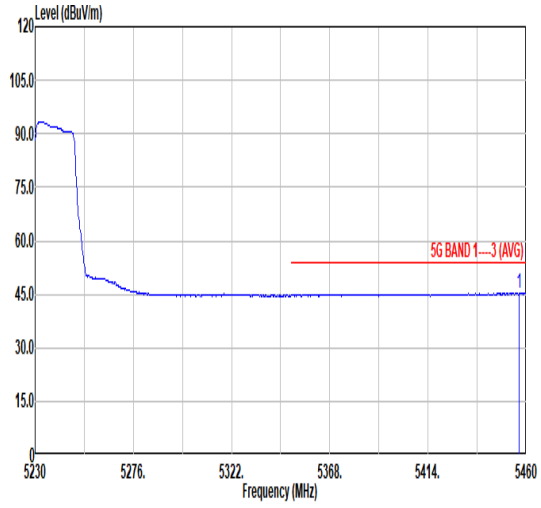
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH38_5190MHz	
Pol.	Vertical	Fundamental
Peak	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5376.84 53.70 74.00 -20.30 40.99 34.72 9.93 31.94 0.00 379 23 PEAK	Blank
Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5438.40 43.71 54.00 -10.29 30.90 34.80 9.99 31.98 0.00 379 23 AVERAGE	Blank

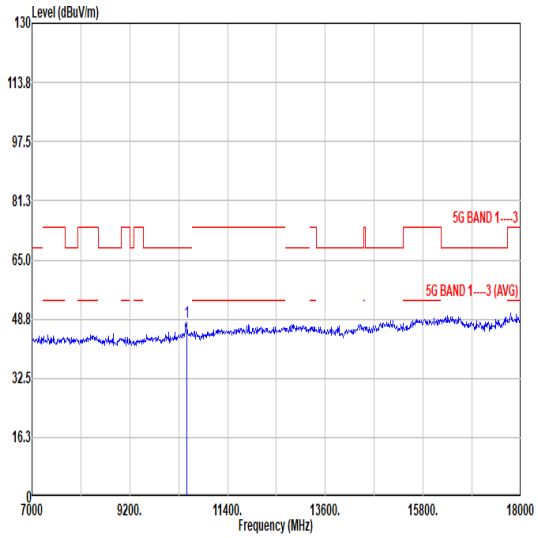
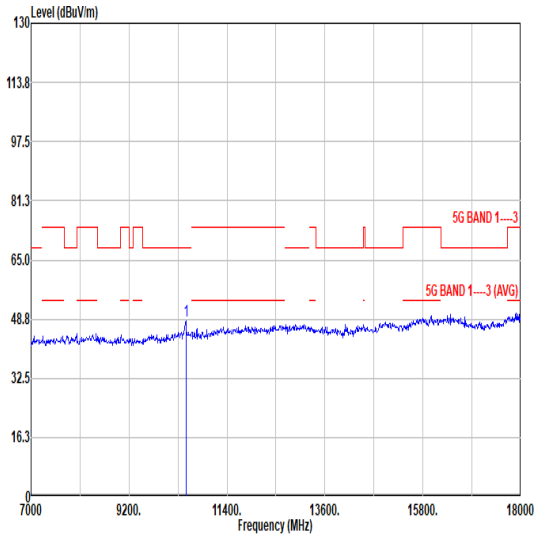
Mode	19	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH38_5190MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10380.00 46.24 68.30 -22.06 56.29 37.65 14.14 61.84 0.00 100 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10380.00 45.90 68.30 -22.40 55.95 37.65 14.14 61.84 0.00 300 0 PEAK

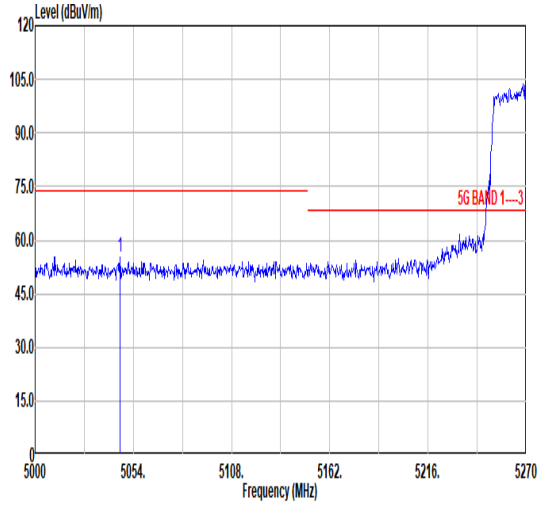
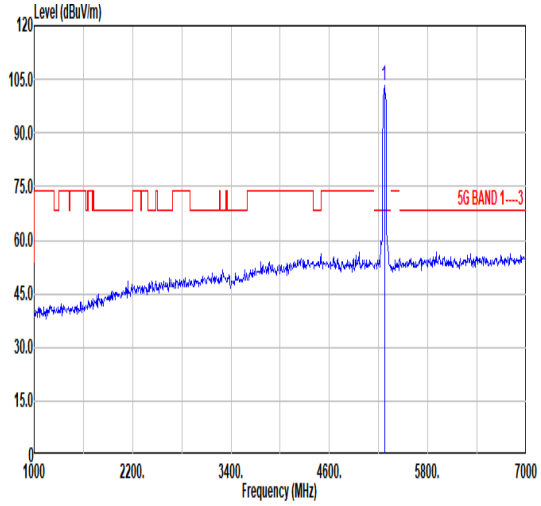
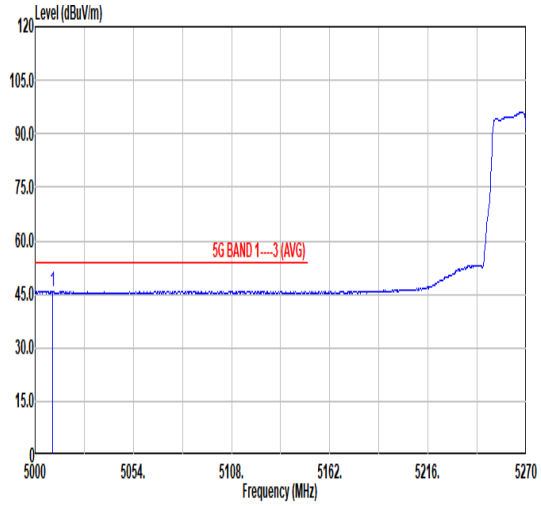
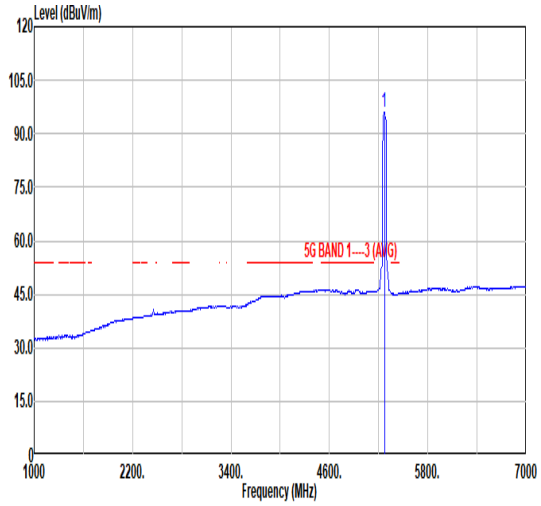
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH46_5230MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.43 54.79 74.00 -19.21 41.45 34.62 11.86 33.14 0.00 100 255 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5230.00 104.72 ------ ------ 91.21 34.68 11.94 33.11 0.00 100 255 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.89 46.25 54.00 -7.75 32.91 34.62 11.86 33.14 0.00 100 255 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5230.00 97.08 ------ ------ 83.57 34.68 11.94 33.11 0.00 100 255 AVERAGE

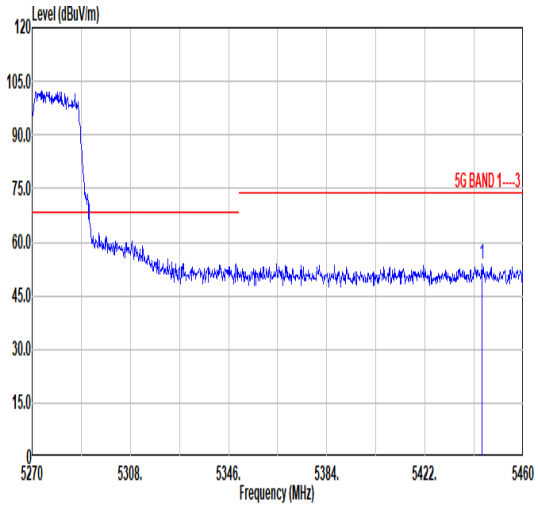
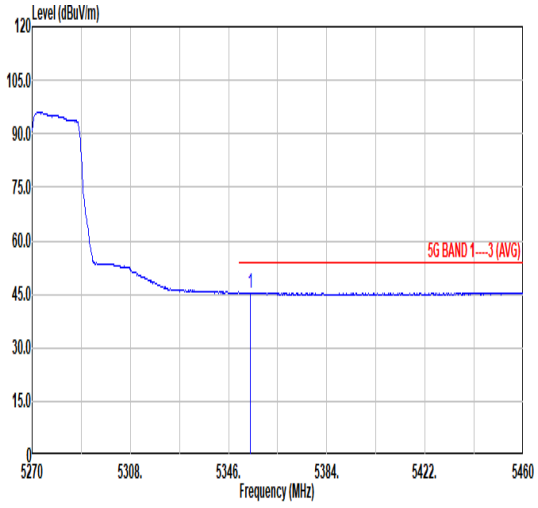
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH46_5230MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5370.99 54.27 74.00 -19.73 40.48 34.80 12.06 33.07 0.00 100 255 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5457.47 45.56 54.00 -8.44 31.58 34.87 12.15 33.04 0.00 100 255 AVERAGE	Blank

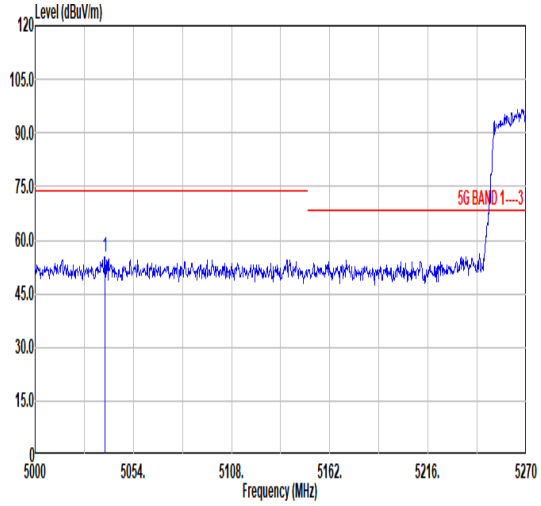
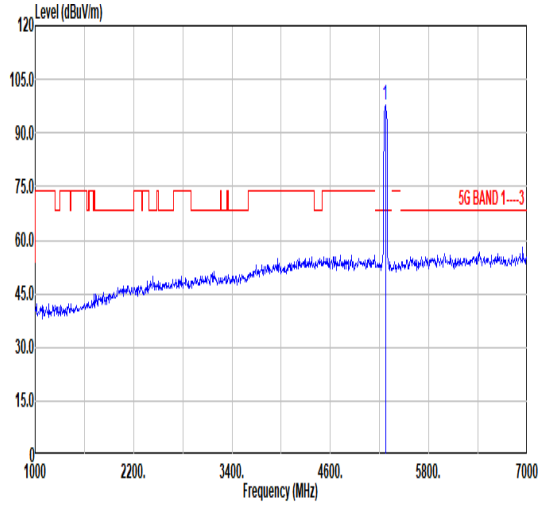
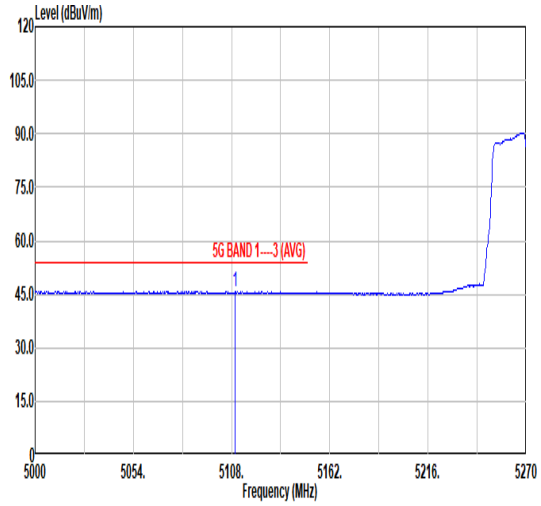
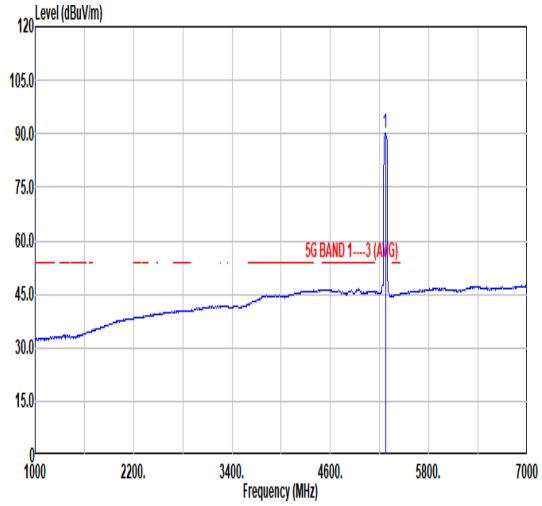
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH46_5230MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5023.92 55.07 74.00 -18.93 41.96 34.52 11.77 33.18 0.00 371 22 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5230.00 99.64 ------ ------ 86.14 34.68 11.93 33.11 0.00 371 22 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5116.61 45.87 54.00 -8.13 32.60 34.59 11.83 33.15 0.00 371 22 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5230.00 93.29 ------ ------ 79.78 34.68 11.94 33.11 0.00 371 22 AVERAGE

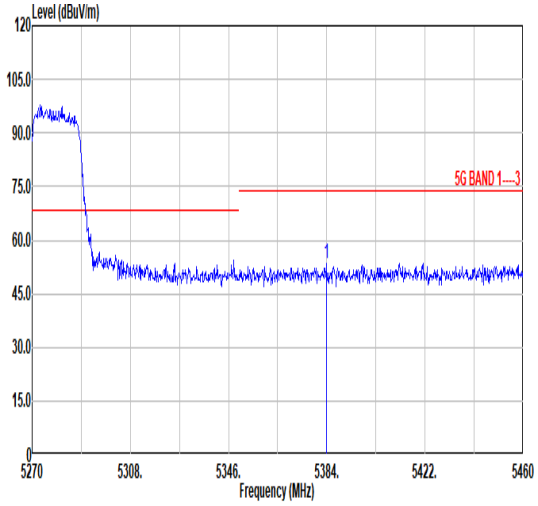
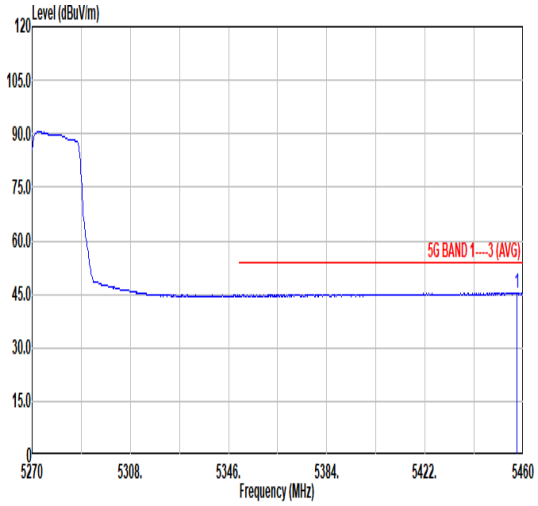
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH46_5230MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5455.40 54.71 74.00 -19.29 40.74 34.86 12.15 33.04 0.00 371 22 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5456.78 45.31 54.00 -8.69 31.33 34.87 12.15 33.04 0.00 371 22 AVERAGE	Blank

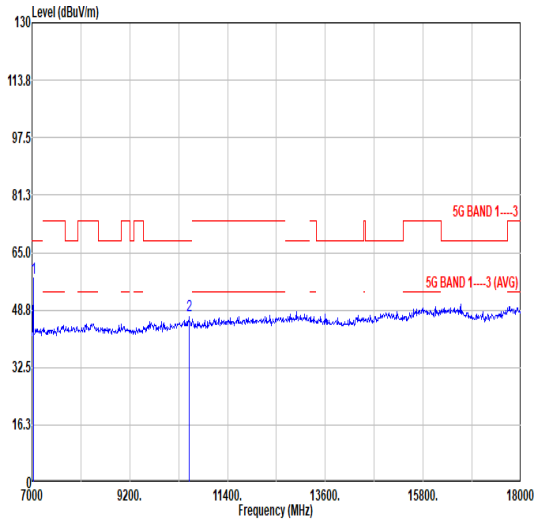
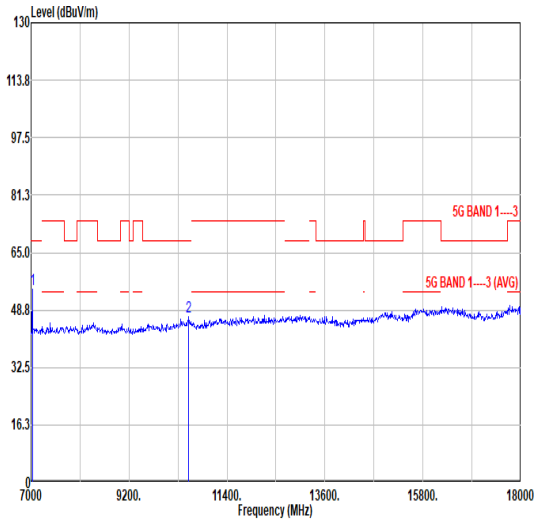
Mode	20	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT40_CH46_5230MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10476.00 47.75 68.30 -20.55 57.52 37.69 14.21 61.67 0.00 100 155 Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10476.00 48.21 68.30 -20.09 57.98 37.69 14.21 61.67 0.00 100 279 Peak

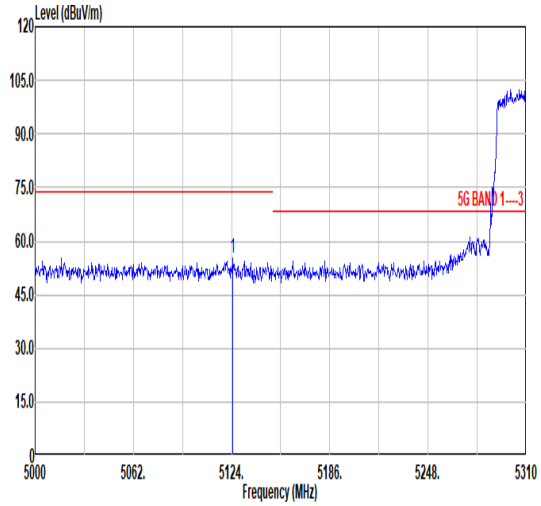
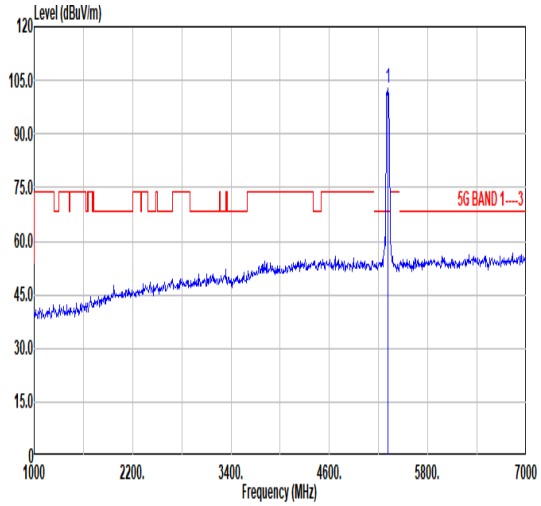
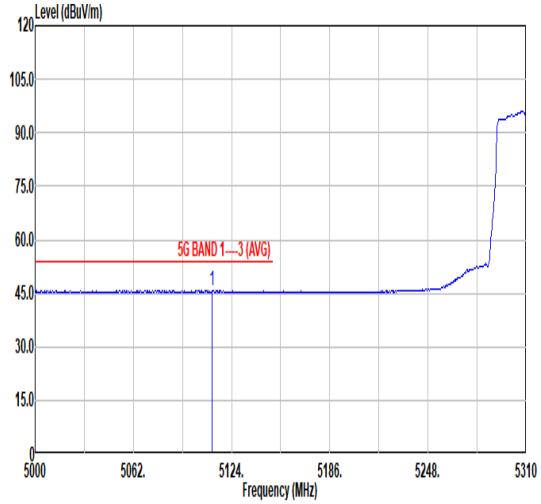
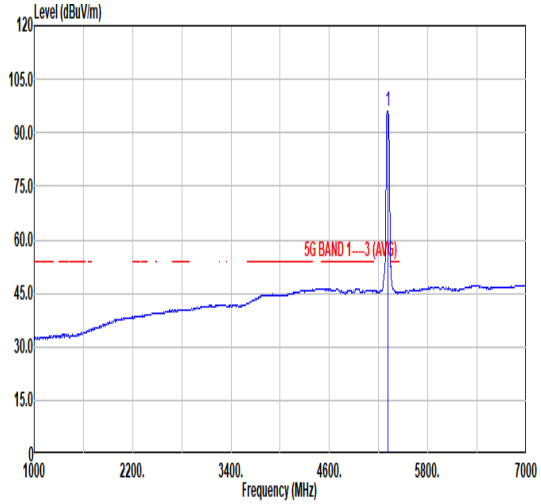
Mode	21	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH54_5270MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5046.71 55.20 74.00 -18.80 42.05 34.54 11.79 33.18 0.00 100 234 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5270.00 103.34 ------ ------ 89.75 34.72 11.97 33.10 0.00 100 234 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5009.72 45.84 54.00 -8.16 32.75 34.51 11.77 33.19 0.00 100 234 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5270.00 95.92 ------ ------ 82.34 34.71 11.97 33.10 0.00 100 234 AVERAGE

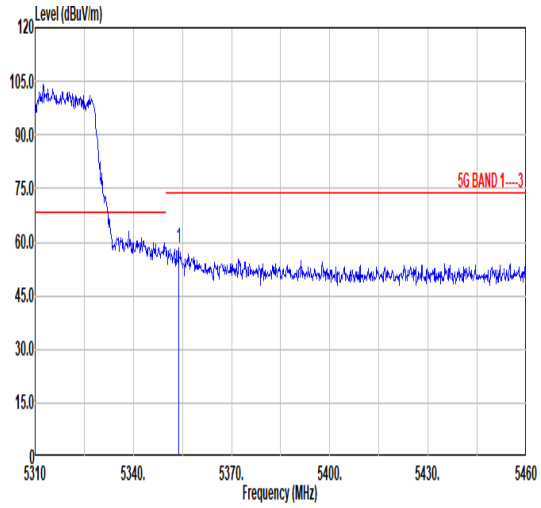
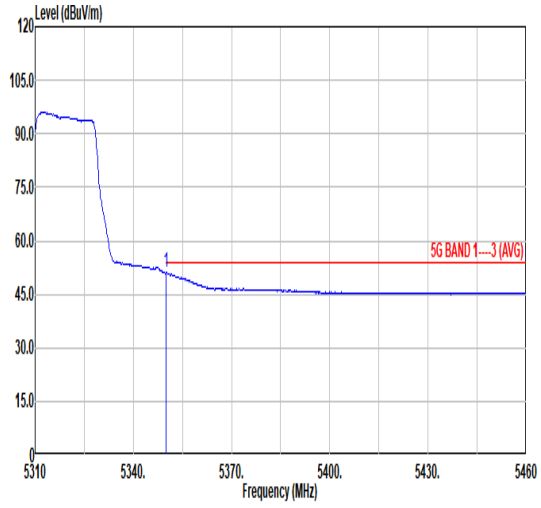
Mode	21	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH54_5270MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5444.04 53.80 74.00 -20.20 39.85 34.86 12.13 33.04 0.00 100 234 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5354.36 45.48 54.00 -8.52 31.72 34.78 12.05 33.07 0.00 100 234 AVERAGE	Blank

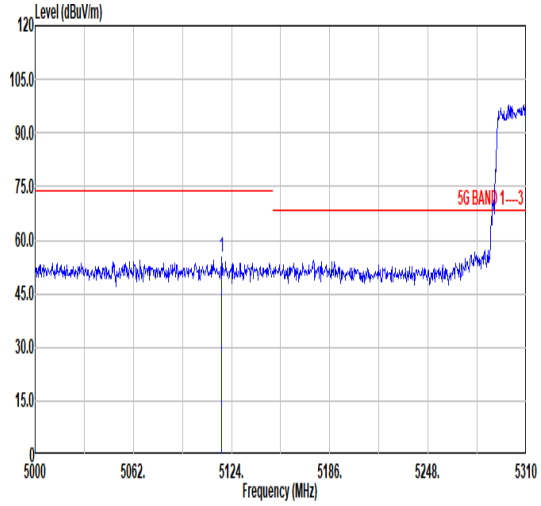
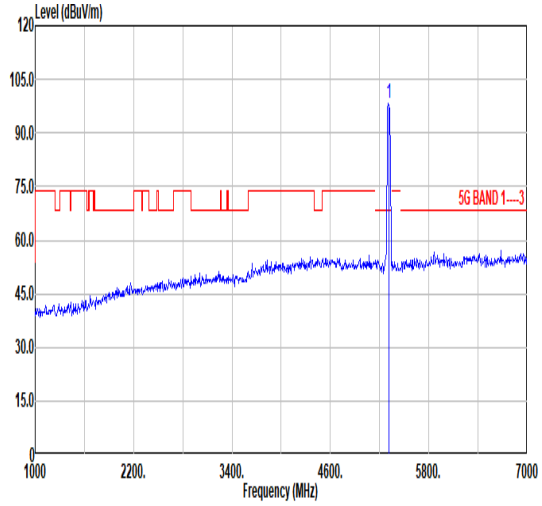
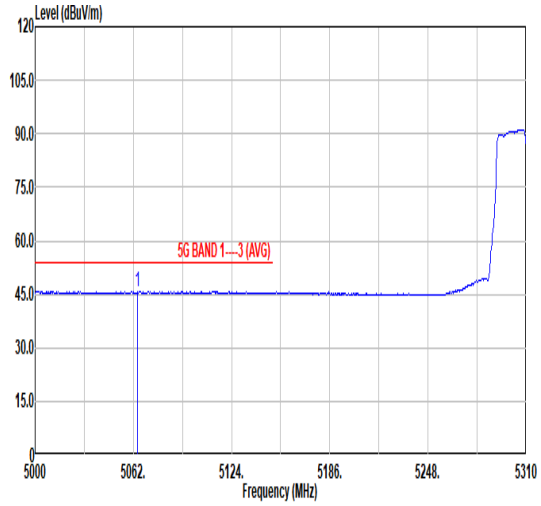
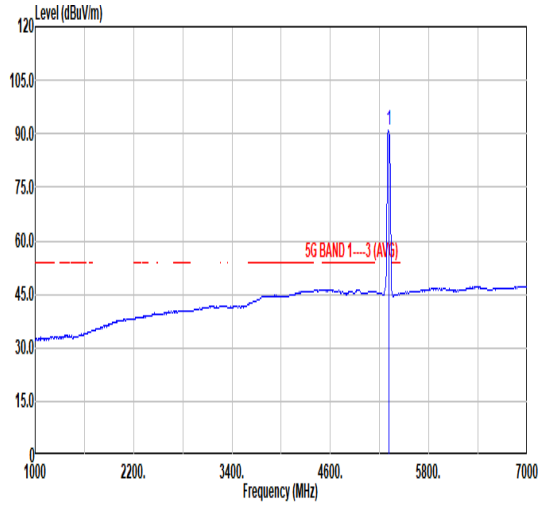
Mode	21	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH54_5270MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5038.34 55.22 74.00 -18.78 42.09 34.53 11.78 33.18 0.00 343 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5270.00 97.99 ------ ------ 84.40 34.72 11.97 33.10 0.00 343 0 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5109.89 45.70 54.00 -8.30 32.44 34.59 11.83 33.16 0.00 343 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5270.00 90.20 ------ ------ 76.61 34.72 11.97 33.10 0.00 343 0 AVERAGE

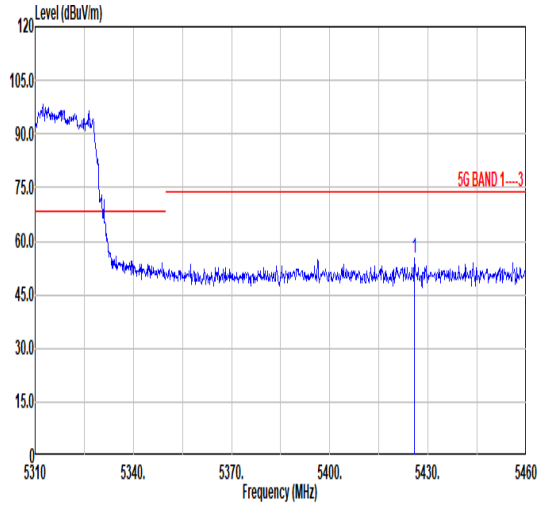
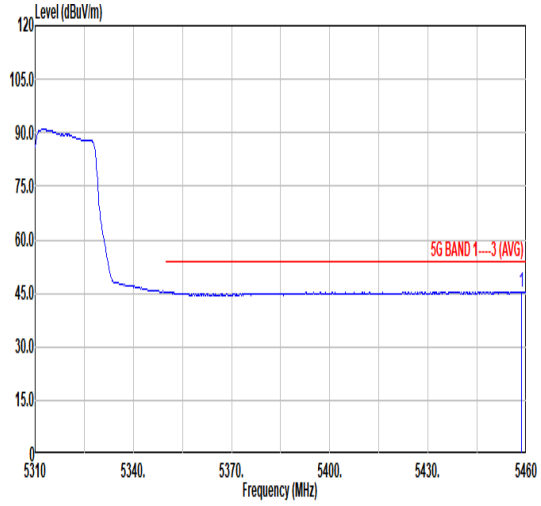
Mode	21	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH54_5270MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5384.00 53.43 74.00 -20.57 39.60 34.81 12.08 33.06 0.00 343 0 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5457.53 45.33 54.00 -8.67 31.35 34.87 12.15 33.04 0.00 343 0 AVERAGE	Blank

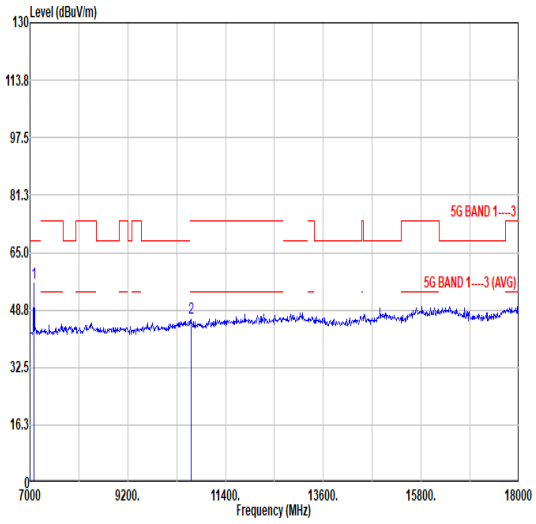
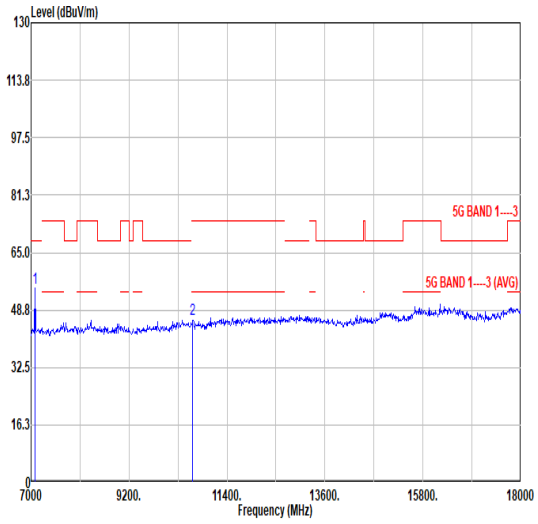
Mode	21	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH54_5270MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7033.00 57.78 68.30 -10.52 72.59 35.70 11.52 62.03 0.00 100 46 Peak 2 10540.00 47.28 68.30 -21.02 56.94 37.72 14.25 61.63 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7033.00 54.46 68.30 -13.84 69.27 35.70 11.52 62.03 0.00 100 248 Peak 2 10540.00 46.90 68.30 -21.40 56.56 37.72 14.25 61.63 0.00 100 0 PEAK

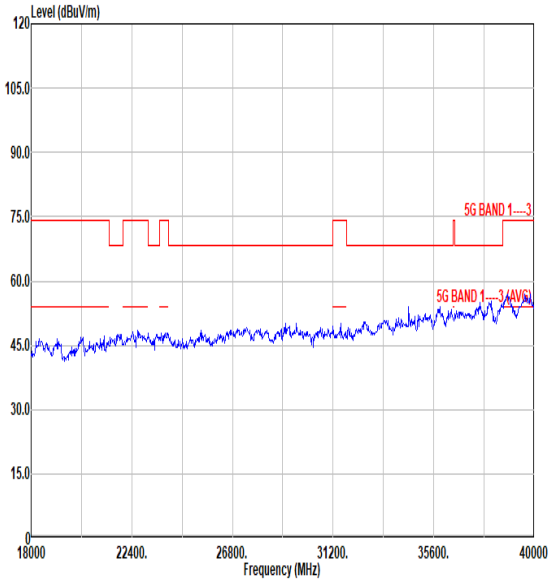
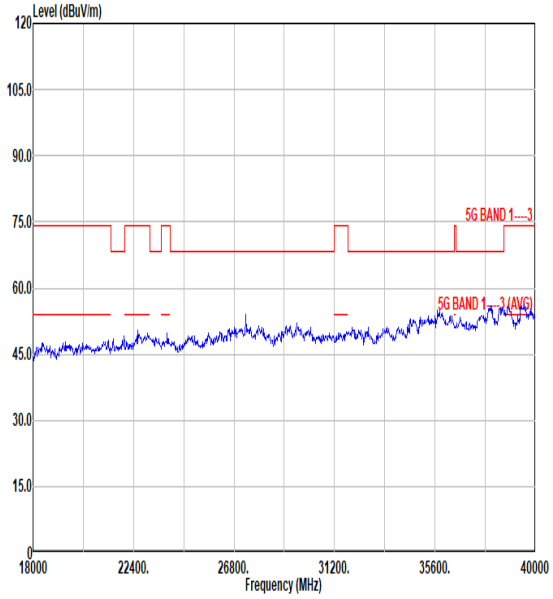
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5124.62 55.24 74.00 -18.76 41.95 34.60 11.84 33.15 0.00 100 253 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5310.00 102.71 ------ ------ 89.04 34.75 12.01 33.09 0.00 100 253 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5111.60 45.75 54.00 -8.25 32.49 34.59 11.83 33.16 0.00 100 253 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5310.00 95.87 ------ ------ 82.20 34.75 12.01 33.09 0.00 100 253 AVERAGE

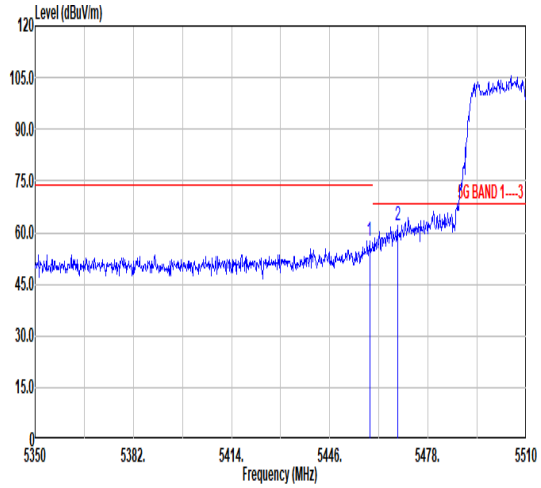
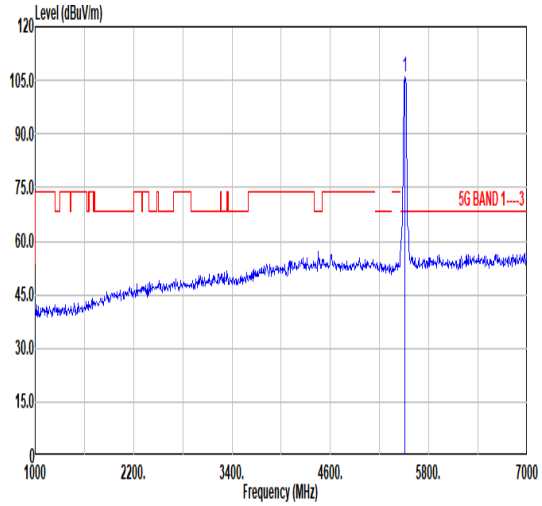
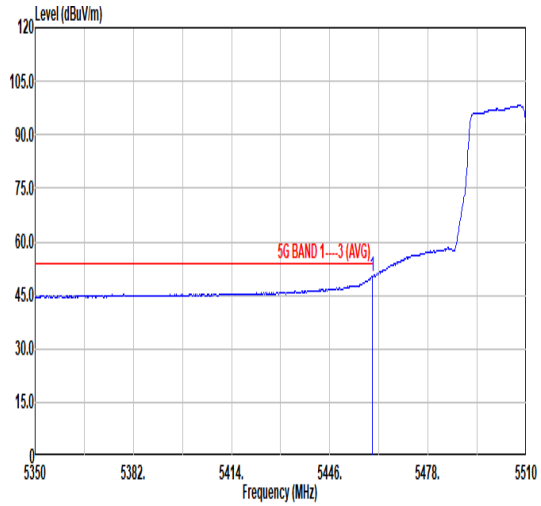
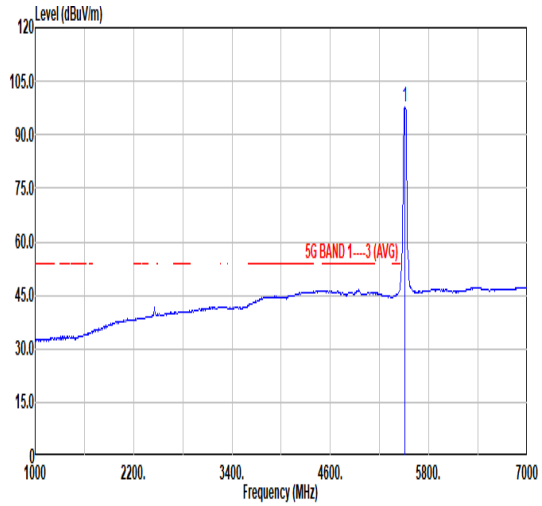
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5353.80 58.20 74.00 -15.80 44.44 34.78 12.05 33.07 0.00 100 253 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.05 50.98 54.00 -3.02 37.22 34.78 12.05 33.07 0.00 100 253 AVERAGE	Blank

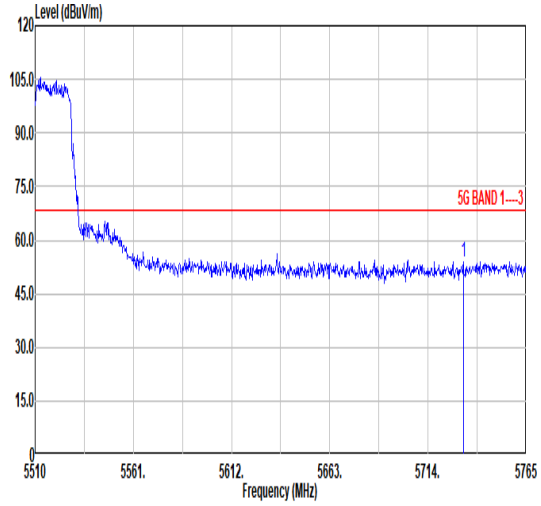
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5117.49 55.24 74.00 -18.76 41.96 34.59 11.84 33.15 0.00 400 359 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 98.44 ------ ------ 84.77 34.75 12.01 33.09 0.00 400 359 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5064.48 45.73 54.00 -8.27 32.55 34.55 11.80 33.17 0.00 400 359 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5310.00 91.12 ------ ------ 77.45 34.75 12.01 33.09 0.00 400 359 AVERAGE

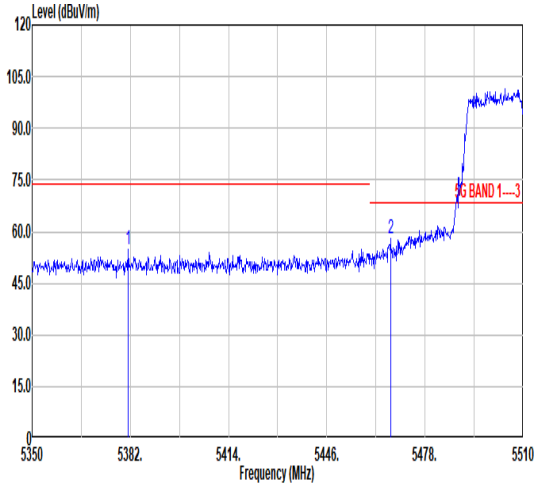
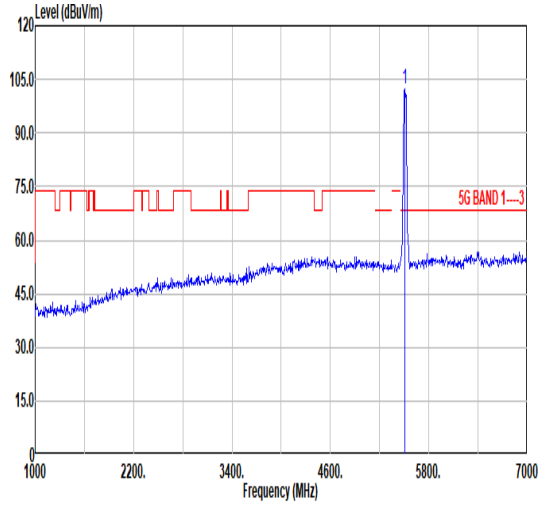
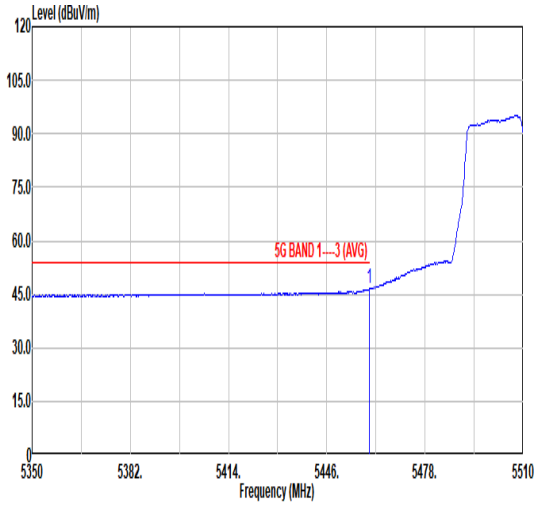
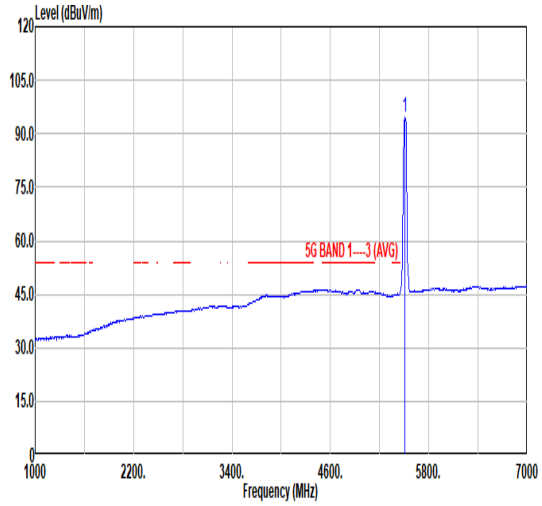
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5425.95 55.29 74.00 -18.71 41.38 34.84 12.12 33.05 0.00 400 359 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5458.65 45.43 54.00 -8.57 31.45 34.87 12.15 33.04 0.00 400 359 AVERAGE	Blank

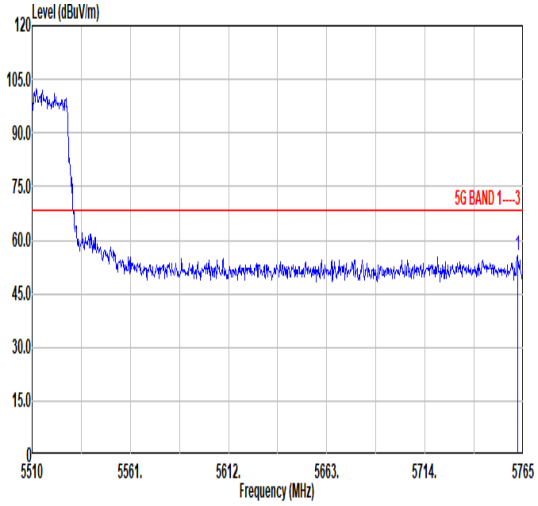
Mode	22	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7088.00 56.45 68.30 -11.85 71.22 35.70 11.56 62.03 0.00 100 39 Peak 2 10620.00 46.60 74.00 -27.40 56.16 37.77 14.31 61.64 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7088.00 55.12 68.30 -13.18 69.89 35.70 11.56 62.03 0.00 100 253 Peak 2 10620.00 46.27 74.00 -27.73 55.83 37.77 14.31 61.64 0.00 100 0 PEAK

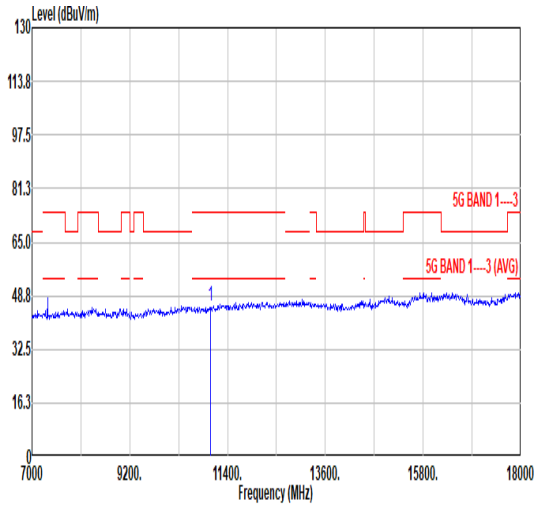
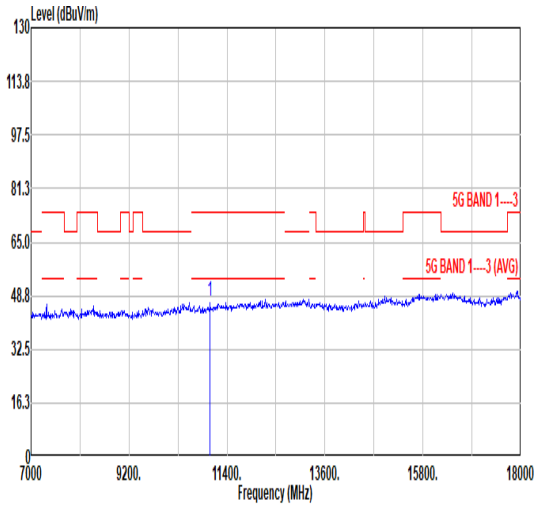
Mode	22	
	18-40G	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Horizontal	Vertical
Peak		

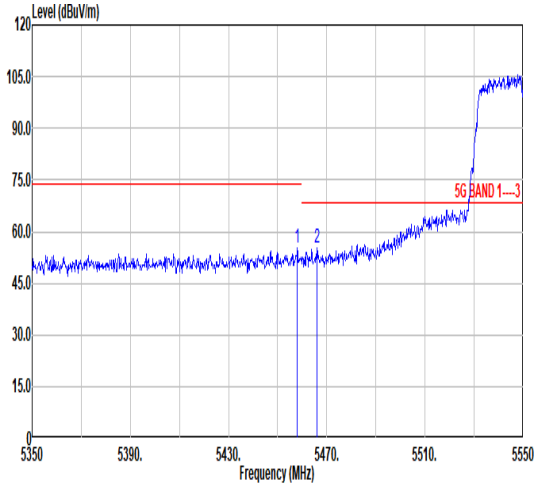
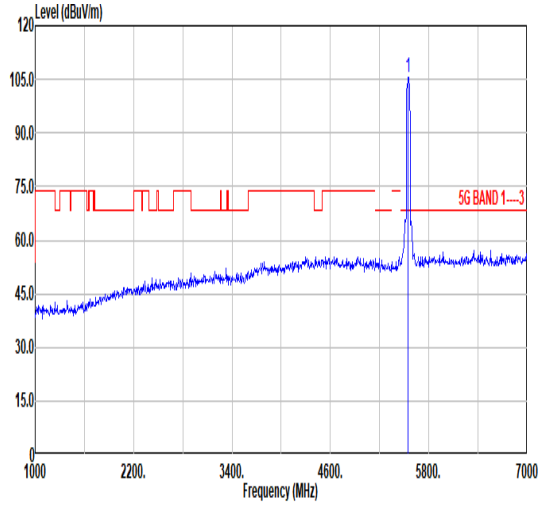
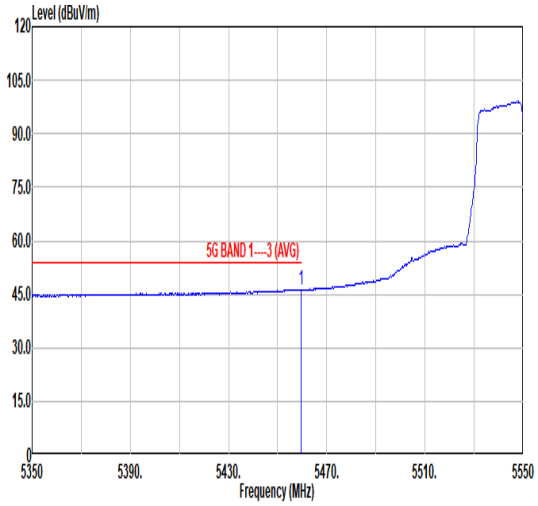
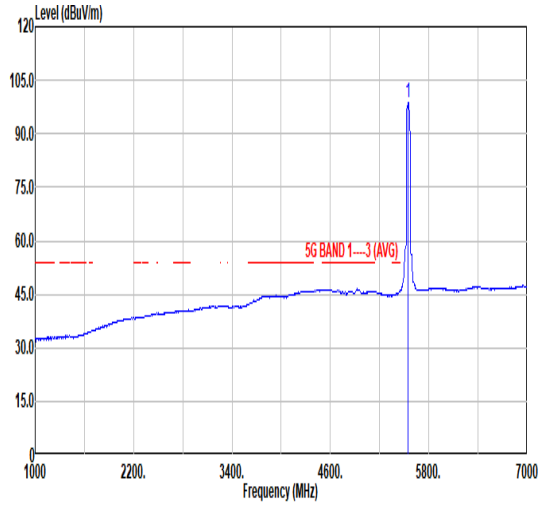
Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH102_5510MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5458.96 57.49 74.00 -16.51 43.51 34.87 12.15 33.04 0.00 100 260 PEAK 2 5468.08 61.95 68.30 -6.35 47.95 34.87 12.16 33.03 0.00 100 260 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5510.00 105.81 ------ ------ 91.72 34.91 12.20 33.02 0.00 100 260 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5459.92 50.22 54.00 -3.78 36.24 34.87 12.15 33.04 0.00 100 260 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5510.00 98.01 ------ ------ 83.92 34.91 12.20 33.02 0.00 100 260 AVERAGE

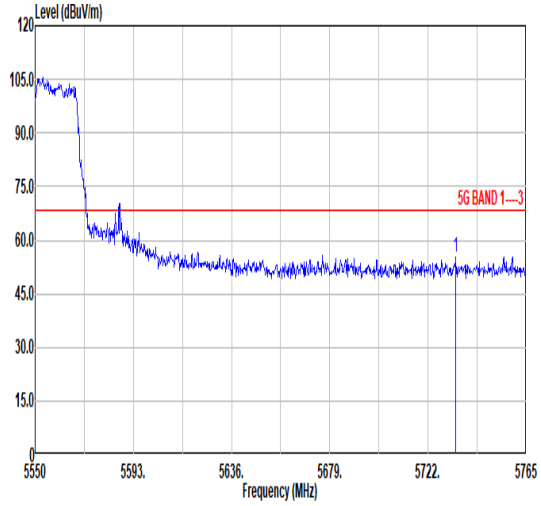
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH102_5510MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5732.36 54.11 68.30 -14.19 39.49 35.17 12.40 32.95 0.00 100 260 PEAK	Blank

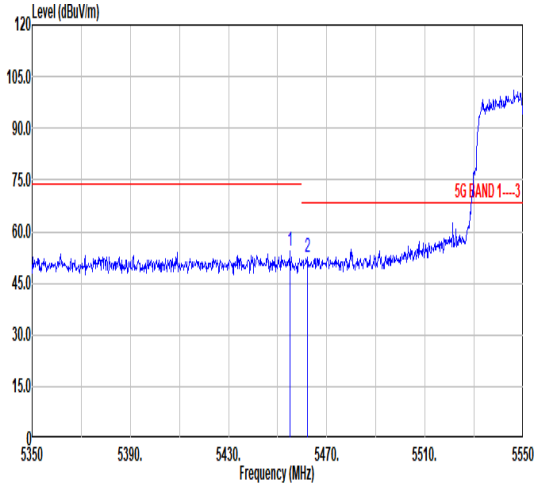
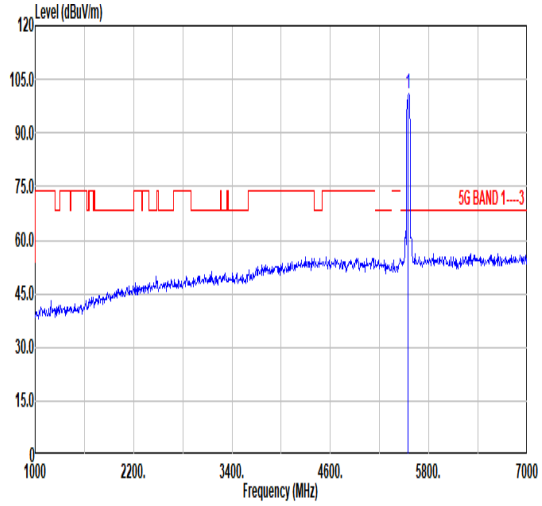
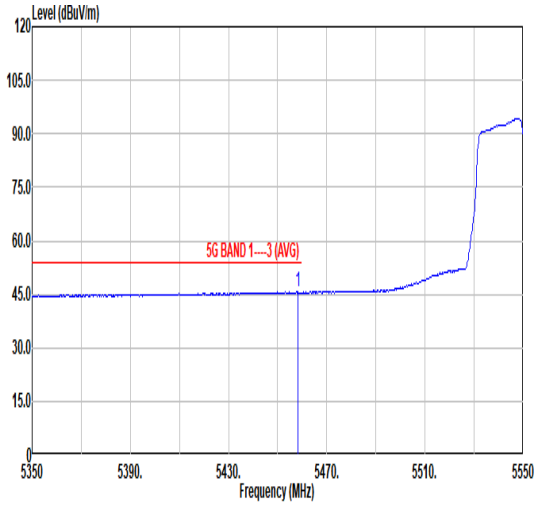
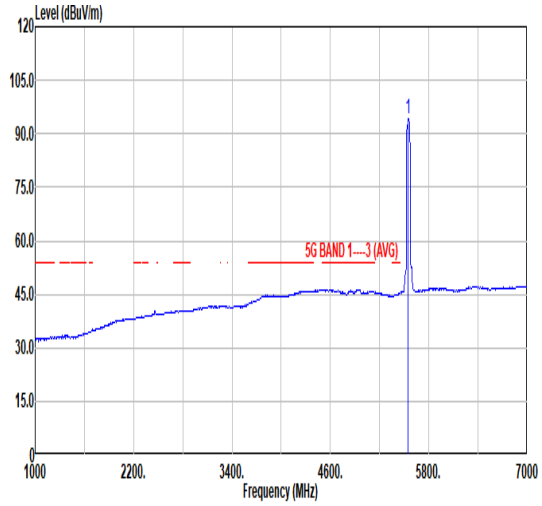
Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH102_5510MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5381.36 54.94 74.00 -19.06 41.13 34.81 12.07 33.07 0.00 393 27 PEAK 2 5466.80 58.17 68.30 -10.13 44.17 34.87 12.16 33.03 0.00 393 27 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5510.00 102.48 ------ ------ 88.39 34.91 12.20 33.02 0.00 393 27 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.76 46.42 54.00 -7.58 32.44 34.87 12.15 33.04 0.00 393 27 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5510.00 94.84 ------ ------ 80.75 34.91 12.20 33.02 0.00 393 27 AVERAGE

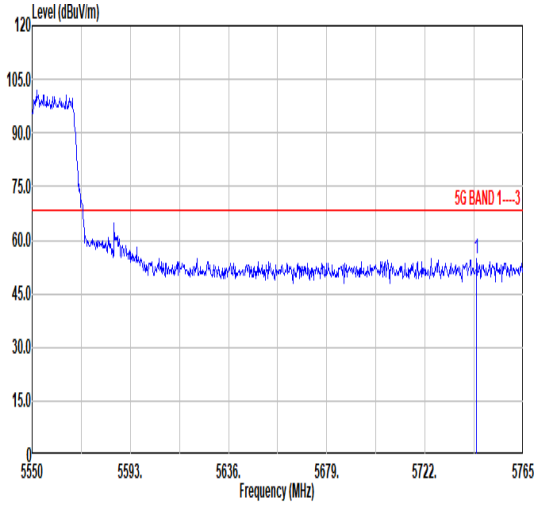
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH102_5510MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5761.94 55.58 68.30 -12.72 40.89 35.20 12.43 32.94 0.00 393 27 PEAK	Blank

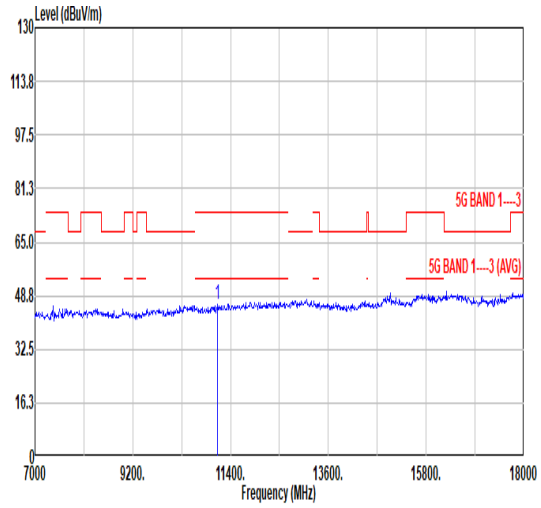
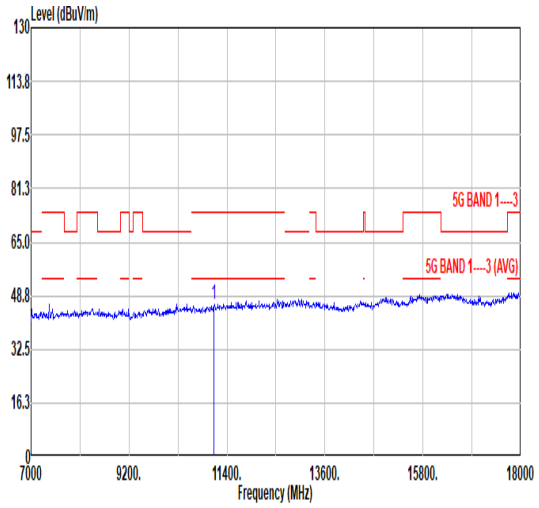
Mode	23	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH102_5510MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11020.00 45.63 74.00 -28.37 54.75 38.01 14.58 61.71 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11020.00 46.86 74.00 -27.14 55.98 38.01 14.58 61.71 0.00 100 0 PEAK

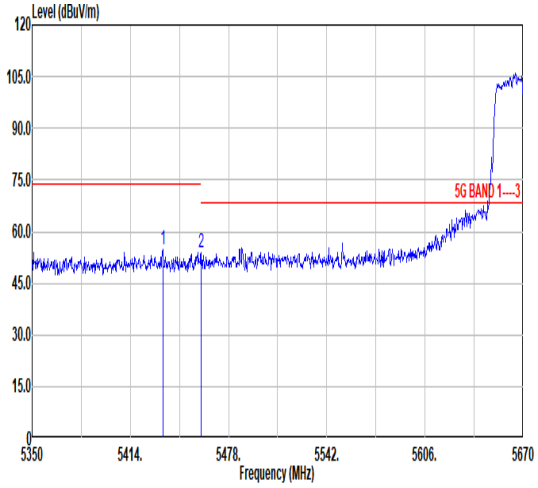
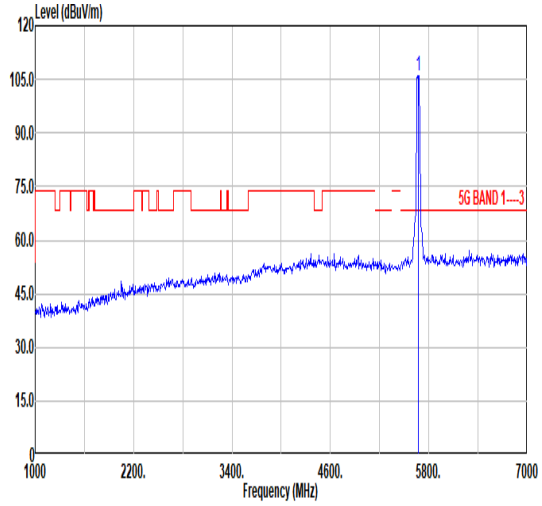
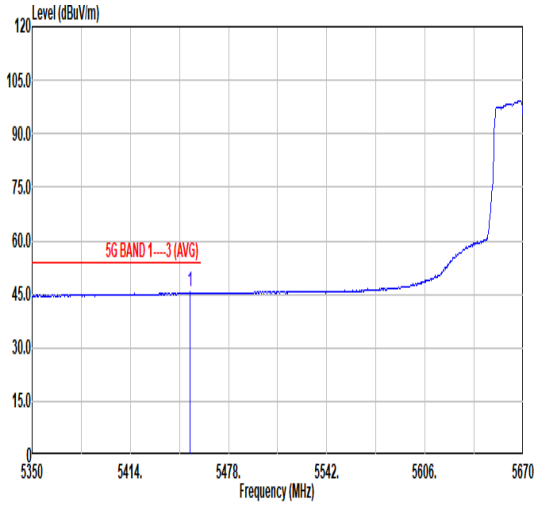
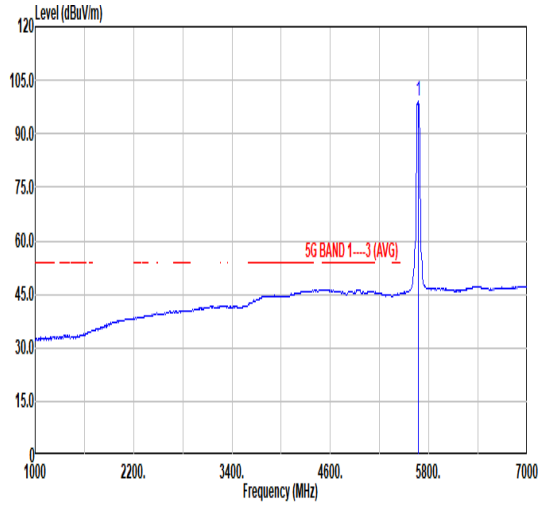
Mode	24	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH110_5550MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5458.00 55.42 74.00 -18.58 41.44 34.87 12.15 33.04 0.00 104 265 PEAK 2 5466.00 55.03 68.30 -13.27 41.03 34.87 12.16 33.03 0.00 104 265 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5550.00 105.71 ------ ------ 91.51 34.96 12.24 33.00 0.00 104 265 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5459.40 46.24 54.00 -7.76 32.26 34.87 12.15 33.04 0.00 104 265 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5550.00 98.90 ------ ------ 84.72 34.96 12.23 33.01 0.00 104 265 AVERAGE

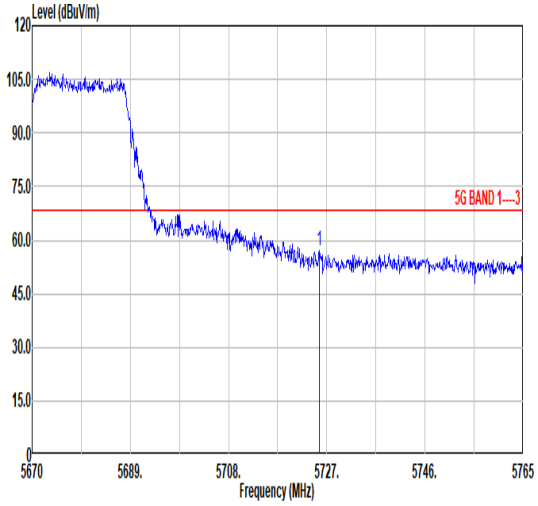
Mode	24	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH110_5550MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5734.26 55.43 68.30 -12.87 40.81 35.17 12.40 32.95 0.00 104 265 PEAK	Blank

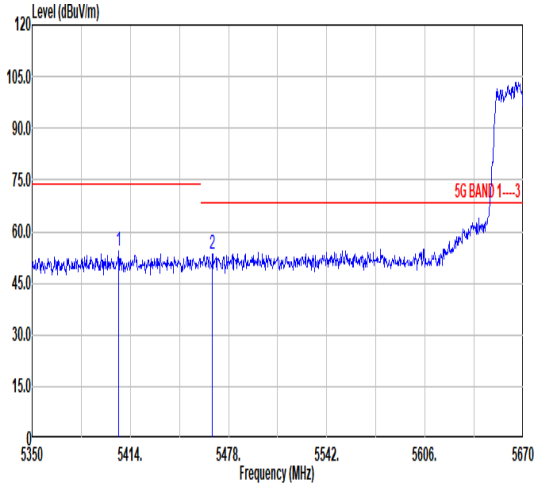
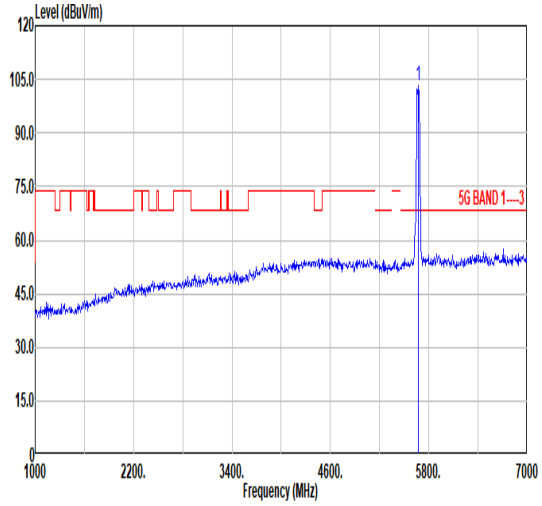
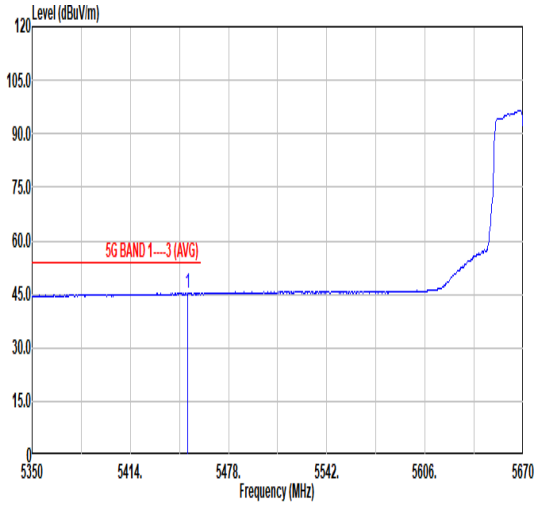
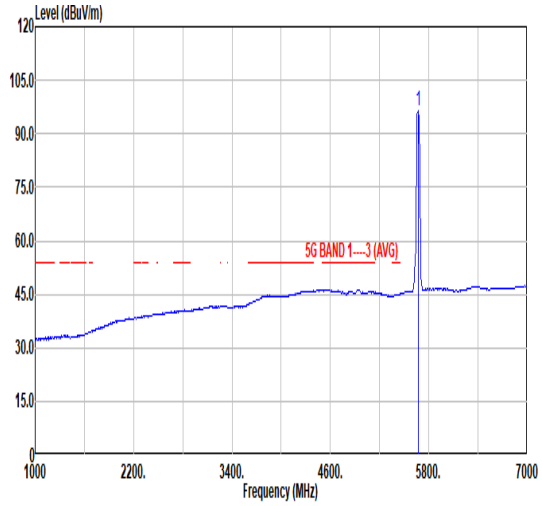
Mode	24	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH110_5550MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5455.00 54.18 74.00 -19.82 40.21 34.86 12.15 33.04 0.00 386 40 PEAK 2 5462.00 52.37 68.30 -15.93 38.39 34.87 12.15 33.04 0.00 386 40 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5550.00 100.97 ------ ------ 86.76 34.97 12.24 33.00 0.00 386 40 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5458.20 45.63 54.00 -8.37 31.65 34.87 12.15 33.04 0.00 386 40 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5550.00 94.19 ------ ------ 79.99 34.96 12.24 33.00 0.00 386 40 AVERAGE

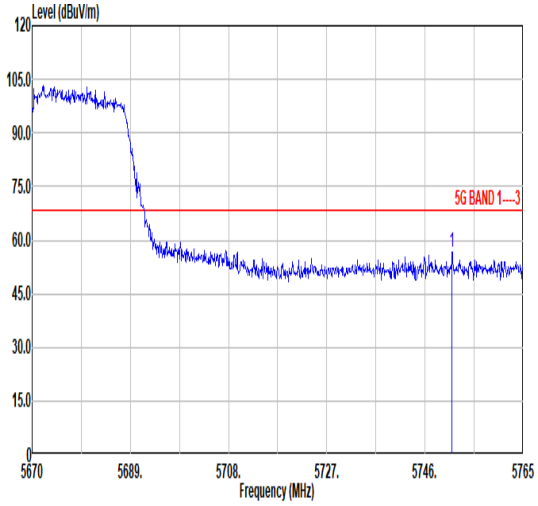
Mode	24	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH110_5550MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5744.58 54.60 68.30 -13.70 39.96 35.18 12.41 32.95 0.00 386 40 PEAK	Blank

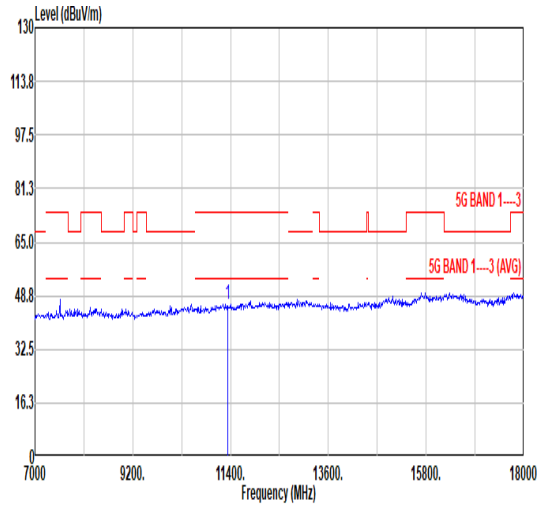
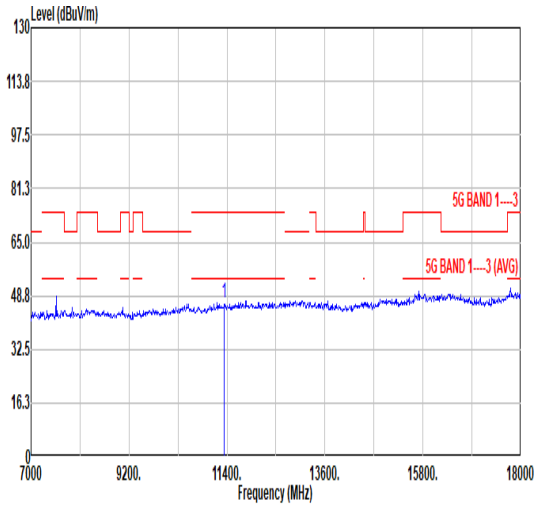
Mode	24	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH110_5550MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11100.00 46.16 74.00 -27.84 55.14 38.06 14.63 61.67 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11100.00 46.12 74.00 -27.88 55.10 38.06 14.63 61.67 0.00 100 0 PEAK

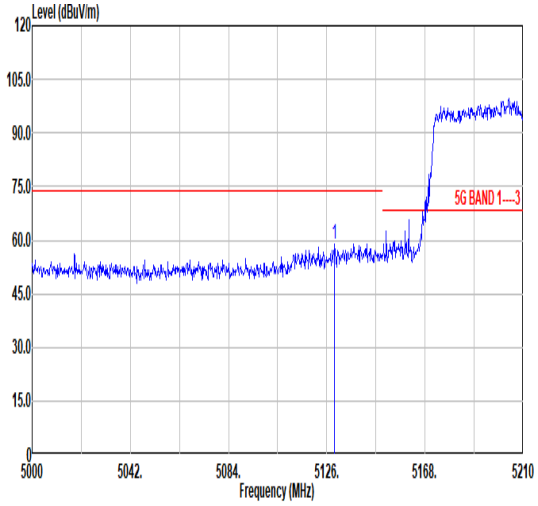
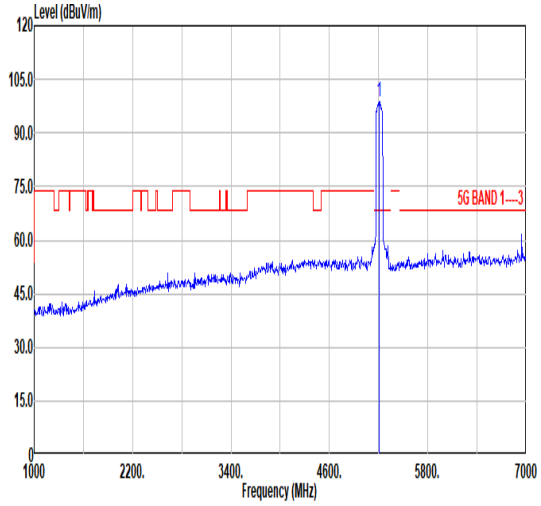
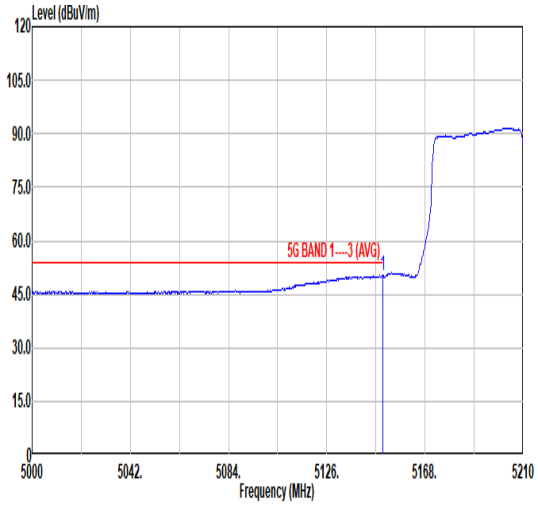
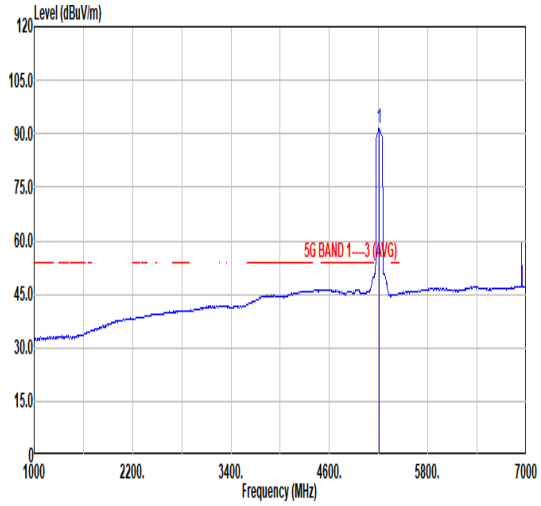
Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH134_5670MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5435.12 54.58 74.00 -19.42 40.65 34.85 12.13 33.05 0.00 100 240 PEAK 2 5460.08 53.80 68.30 -14.50 39.82 34.87 12.15 33.04 0.00 100 240 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5670.00 106.14 ------ ------ 91.66 35.11 12.34 32.97 0.00 100 240 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5452.72 45.59 54.00 -8.41 31.63 34.86 12.14 33.04 0.00 100 240 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5670.00 99.38 ------ ------ 84.91 35.10 12.34 32.97 0.00 100 240 AVERAGE

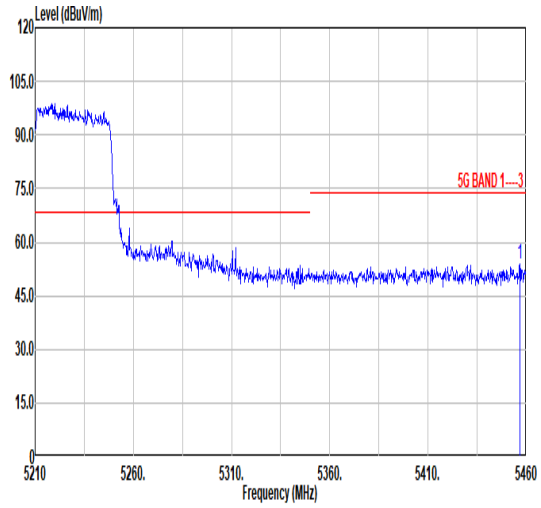
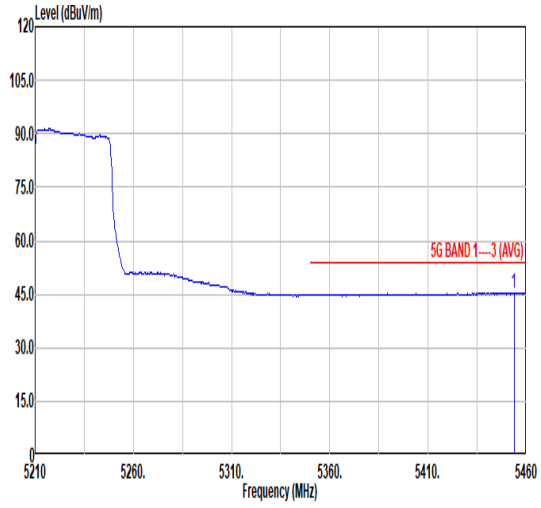
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH134_5670MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5725.58 56.92 68.30 -11.38 42.32 35.16 12.39 32.95 0.00 100 240 PEAK	Blank

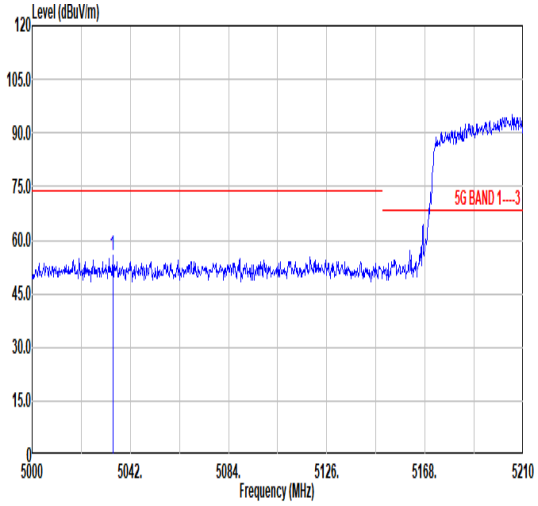
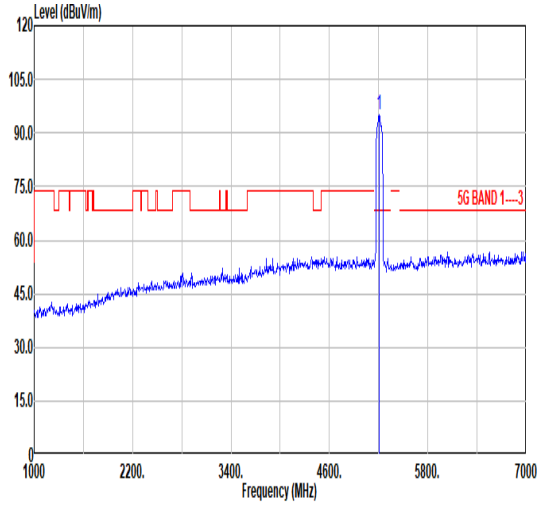
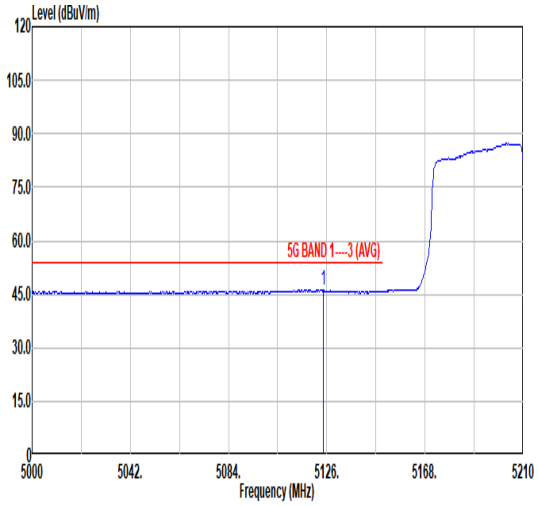
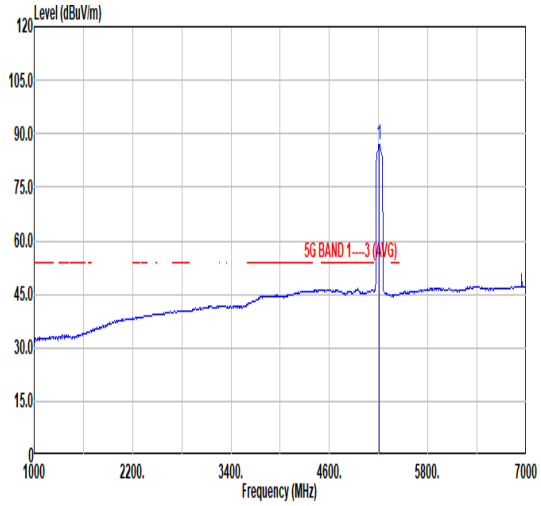
Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH134_5670MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5406.32 54.23 74.00 -19.77 40.36 34.83 12.10 33.06 0.00 388 14 PEAK 2 5467.44 53.56 68.30 -14.74 39.56 34.87 12.16 33.03 0.00 388 14 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5670.00 103.38 ------ ------ 88.93 35.09 12.33 32.97 0.00 388 14 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5451.12 45.42 54.00 -8.58 31.46 34.86 12.14 33.04 0.00 388 14 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5670.00 96.39 ------ ------ 81.94 35.09 12.33 32.97 0.00 388 14 AVERAGE

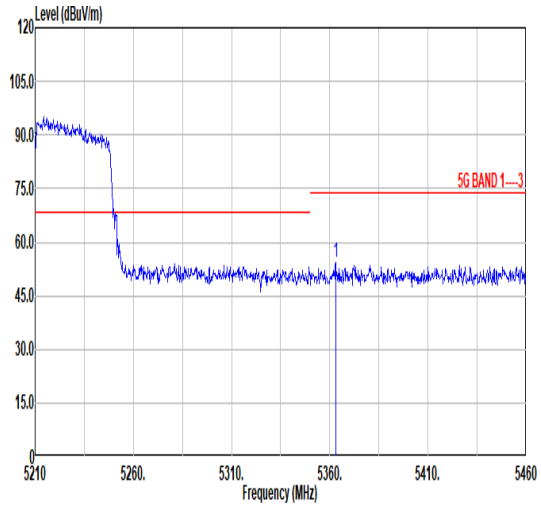
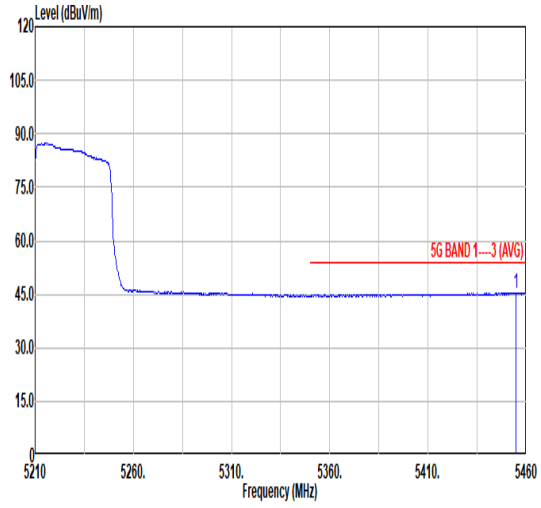
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH134_5670MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5751.23 56.80 68.30 -11.50 42.13 35.19 12.42 32.94 0.00 388 14 PEAK	Blank

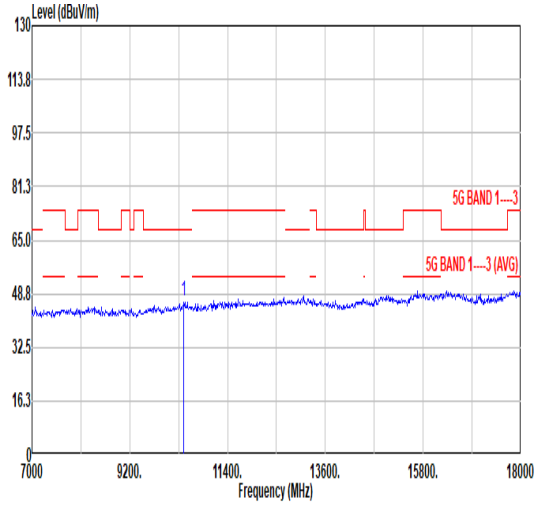
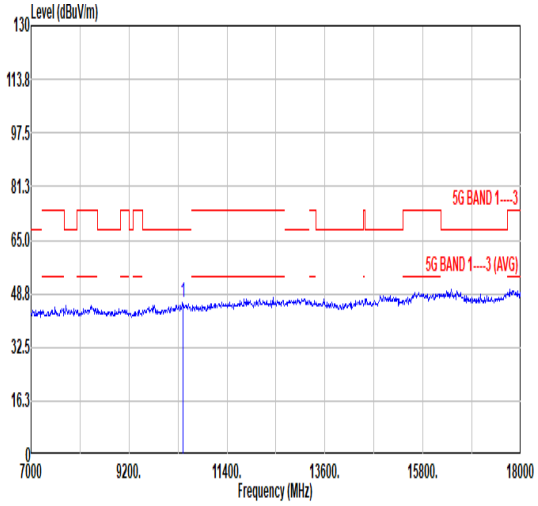
Mode	25	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT40_CH134_5670MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11340.00 45.87 74.00 -28.13 54.45 38.20 14.80 61.58 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11340.00 46.83 74.00 -27.17 55.41 38.20 14.80 61.58 0.00 100 0 PEAK

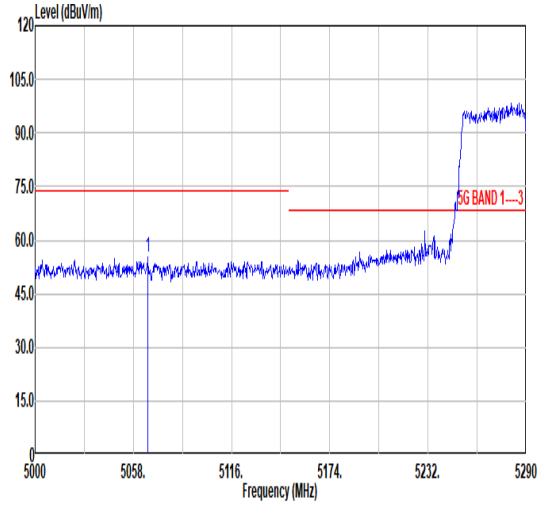
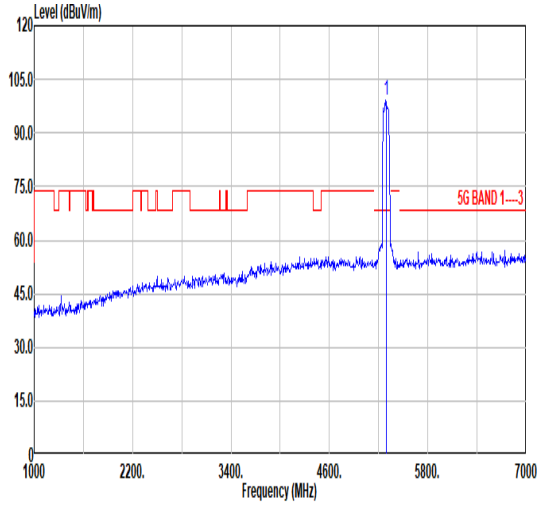
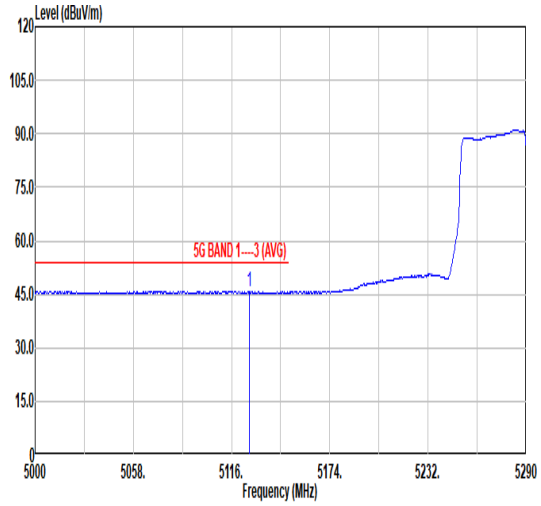
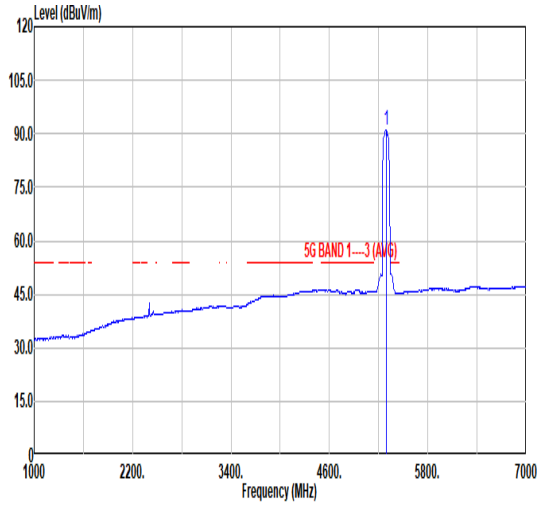
Mode	26	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5129.36 59.01 74.00 -14.99 45.71 34.60 11.85 33.15 0.00 100 238 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 98.67 ------ ------ 85.18 34.67 11.93 33.11 0.00 100 238 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 50.19 54.00 -3.81 36.85 34.62 11.86 33.14 0.00 100 238 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 91.47 ------ ------ 78.01 34.66 11.92 33.12 0.00 100 238 AVERAGE

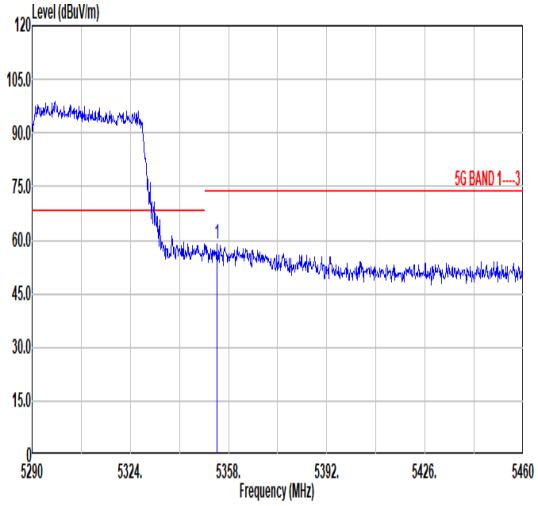
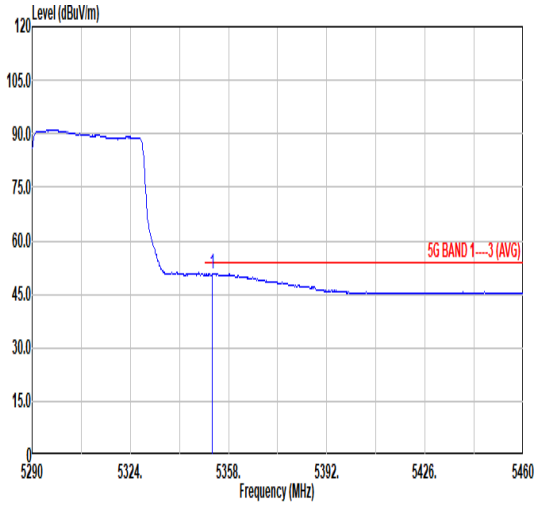
Mode	26	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5456.75 53.92 74.00 -20.08 39.94 34.87 12.15 33.04 0.00 100 238 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5453.75 45.38 54.00 -8.62 31.42 34.86 12.14 33.04 0.00 100 238 AVERAGE	Blank

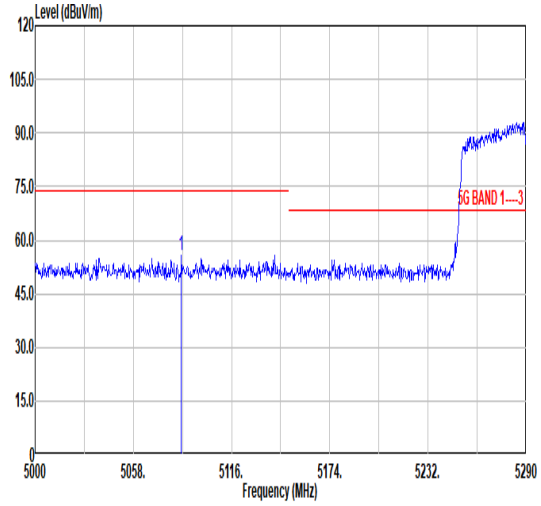
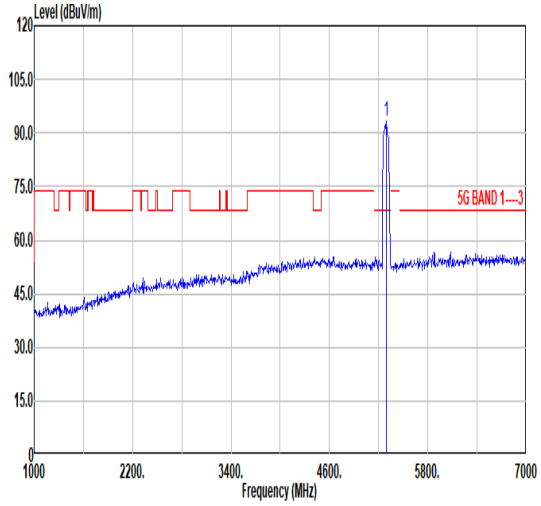
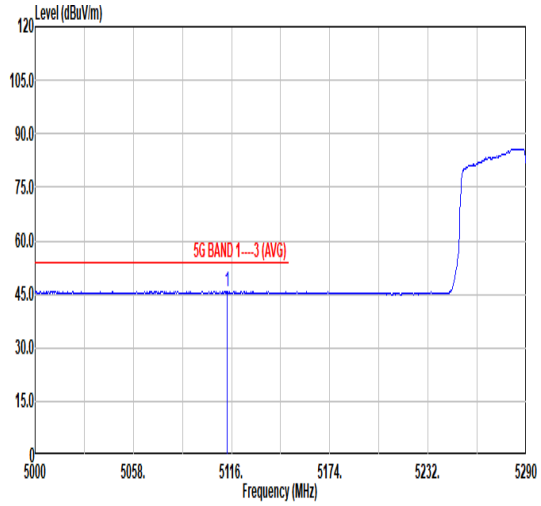
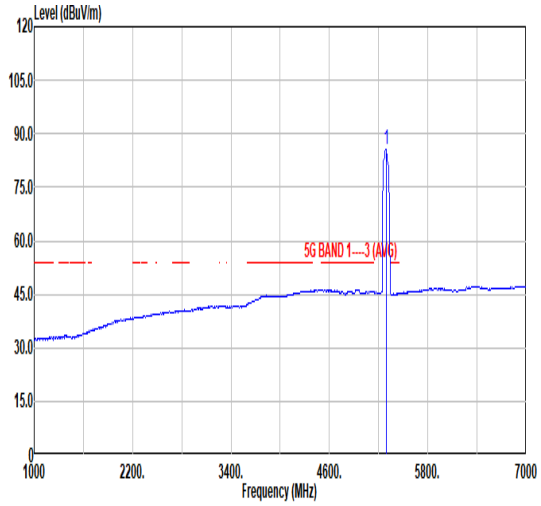
Mode	26	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5034.44 55.50 74.00 -18.50 42.37 34.53 11.78 33.18 0.00 397 26 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 95.02 ------ ------ 81.56 34.66 11.92 33.12 0.00 397 26 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5124.53 46.17 54.00 -7.83 32.88 34.60 11.84 33.15 0.00 397 26 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 87.13 ------ ------ 73.67 34.66 11.92 33.12 0.00 397 26 AVERAGE

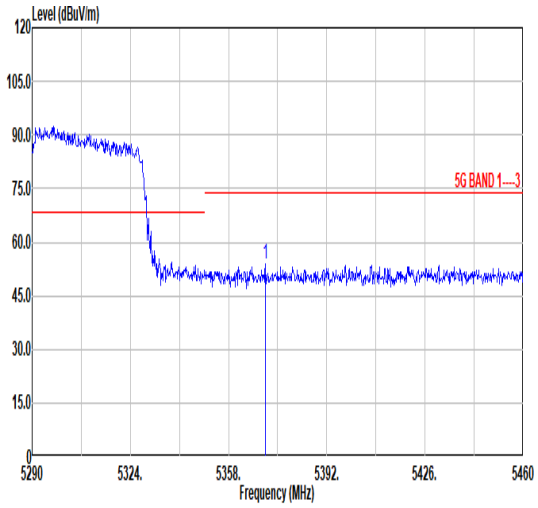
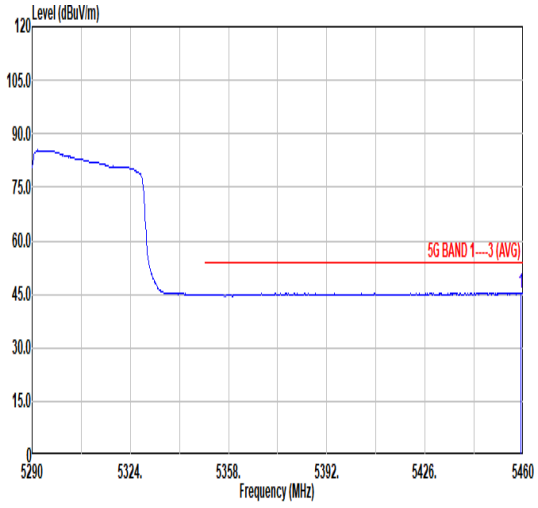
Mode	26	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5363.00 54.38 74.00 -19.62 40.60 34.79 12.06 33.07 0.00 397 26 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5454.75 45.30 54.00 -8.70 31.34 34.86 12.14 33.04 0.00 397 26 AVERAGE	Blank

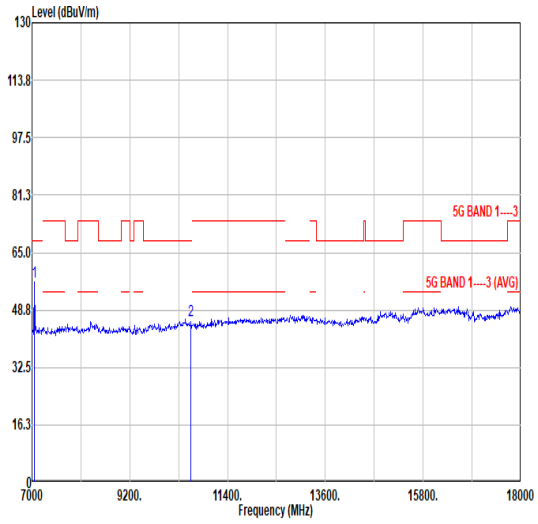
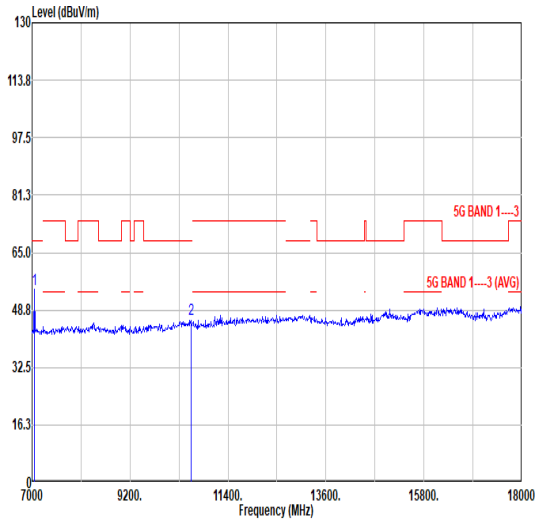
Mode	26	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 46.68 68.30 -21.62 56.61 37.67 14.17 61.77 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 10420.00 46.33 68.30 -21.97 56.26 37.67 14.17 61.77 0.00 100 0 PEAK

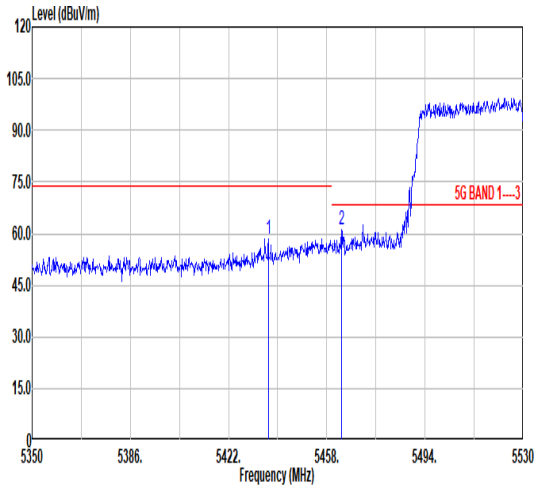
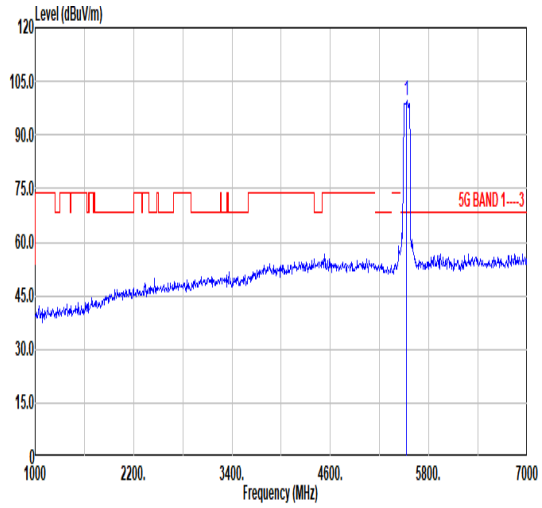
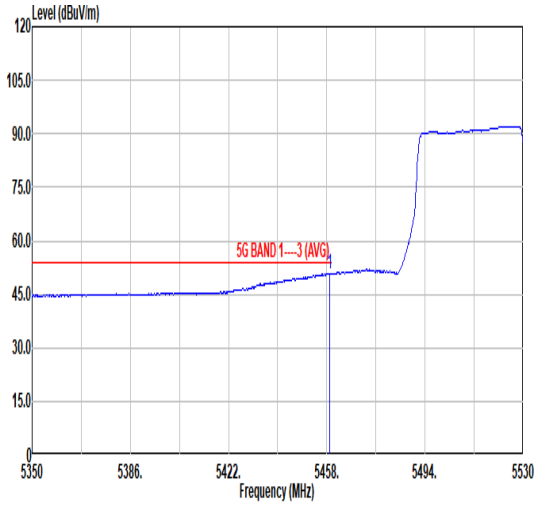
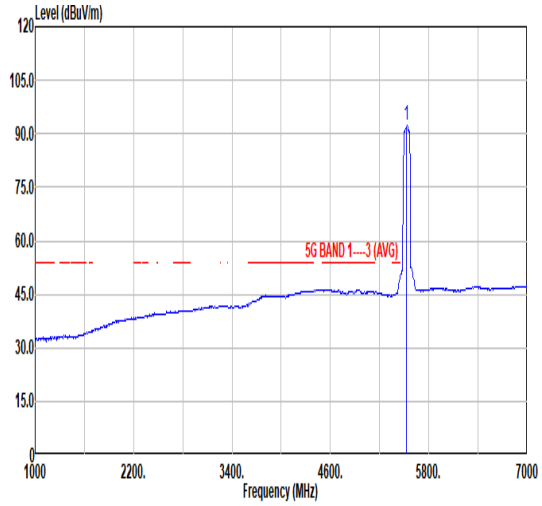
Mode	27	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5066.70 55.31 74.00 -18.69 42.13 34.55 11.80 33.17 0.00 100 251 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5290.00 99.06 ------ ------ 85.43 34.73 11.99 33.09 0.00 100 251 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5126.44 45.90 54.00 -8.10 32.61 34.60 11.84 33.15 0.00 100 251 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5290.00 90.96 ------ ------ 77.33 34.73 11.99 33.09 0.00 100 251 AVERAGE

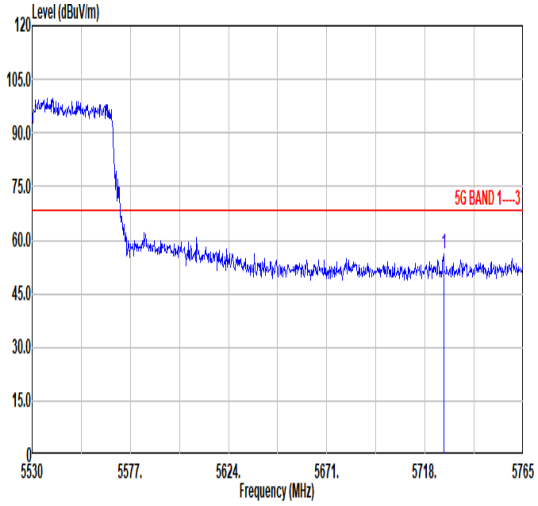
Mode	27	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5353.92 59.07 74.00 -14.93 45.31 34.78 12.05 33.07 0.00 100 251 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5352.22 50.79 54.00 -3.21 37.03 34.78 12.05 33.07 0.00 100 251 AVERAGE	Blank

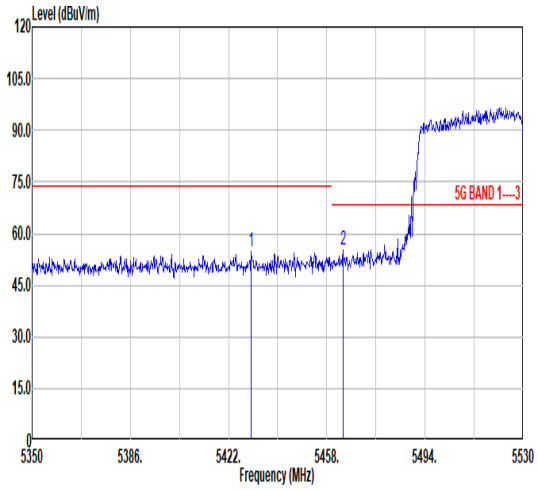
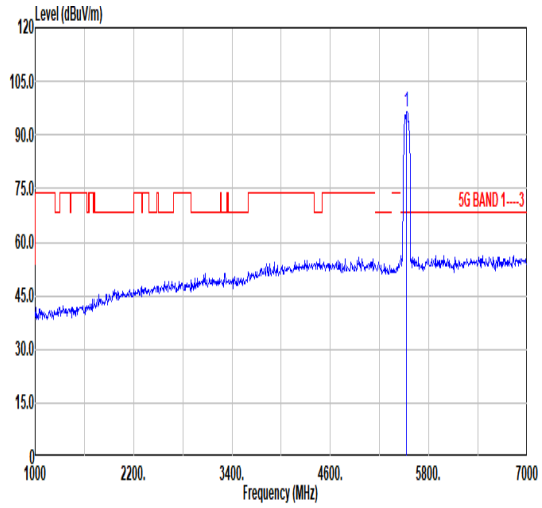
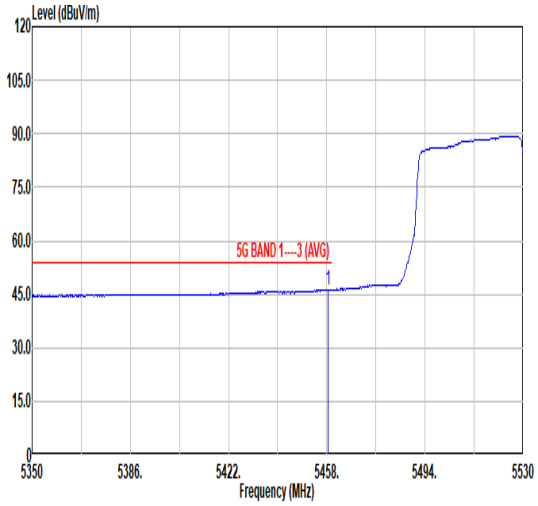
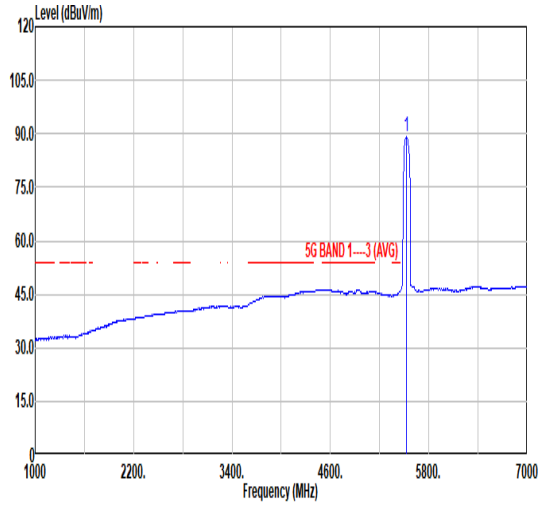
Mode	27	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5086.42 55.84 74.00 -18.16 42.62 34.57 11.81 33.16 0.00 340 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5290.00 93.11 ------ ------ 79.48 34.73 11.99 33.09 0.00 340 0 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5113.39 45.72 54.00 -8.28 32.45 34.59 11.83 33.15 0.00 340 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5290.00 85.65 ------ ------ 72.02 34.73 11.99 33.09 0.00 340 0 AVERAGE

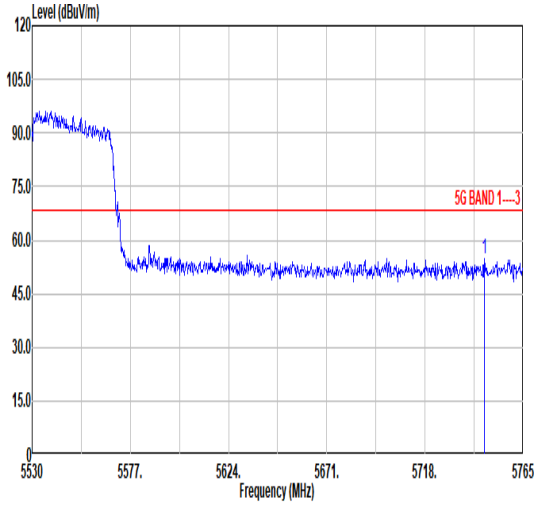
Mode	27	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5370.75 53.73 74.00 -20.27 39.94 34.80 12.06 33.07 0.00 340 0 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.15 45.41 54.00 -8.59 31.43 34.87 12.15 33.04 0.00 340 0 AVERAGE	Blank

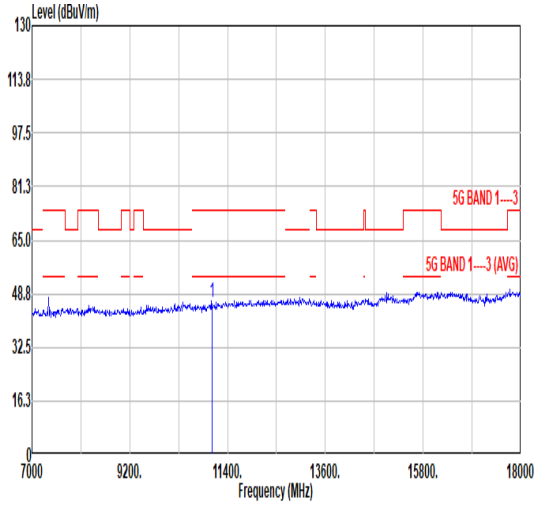
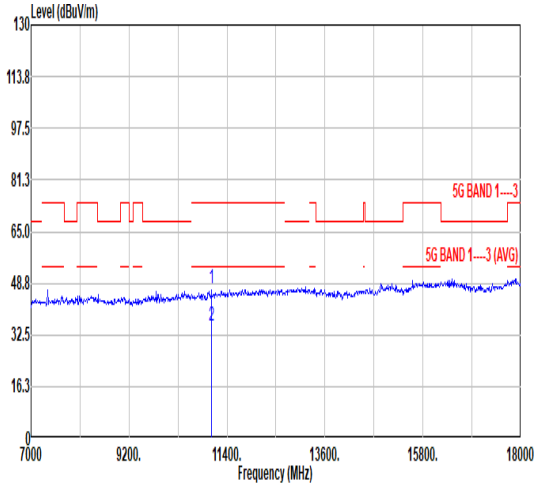
Mode	27	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7055.00 56.74 68.30 -11.56 71.54 35.70 11.53 62.03 0.00 300 56 Peak 2 10580.00 45.95 68.30 -22.35 55.55 37.75 14.28 61.63 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7055.00 54.76 68.30 -13.54 69.56 35.70 11.53 62.03 0.00 100 252 Peak 2 10580.00 46.12 68.30 -22.18 55.72 37.75 14.28 61.63 0.00 100 0 PEAK

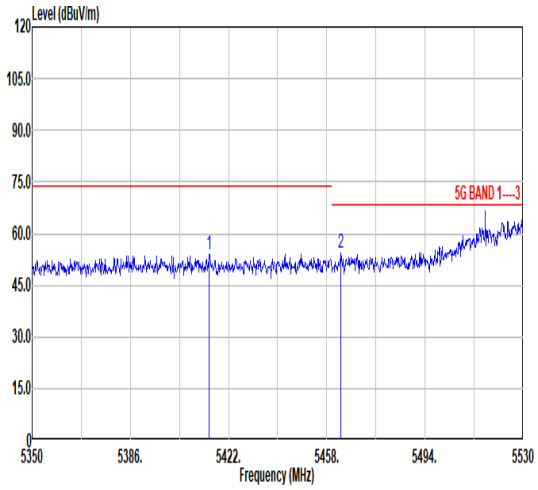
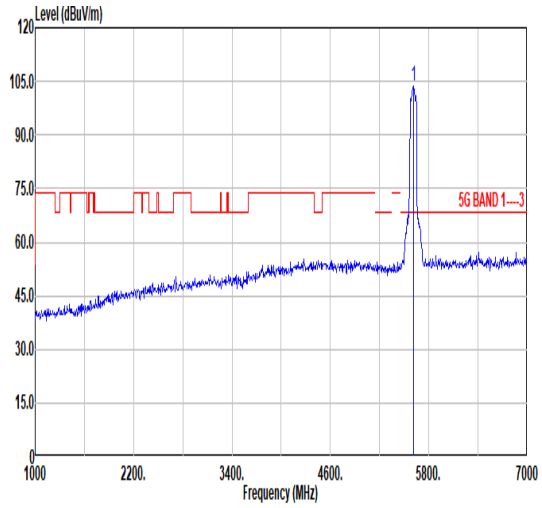
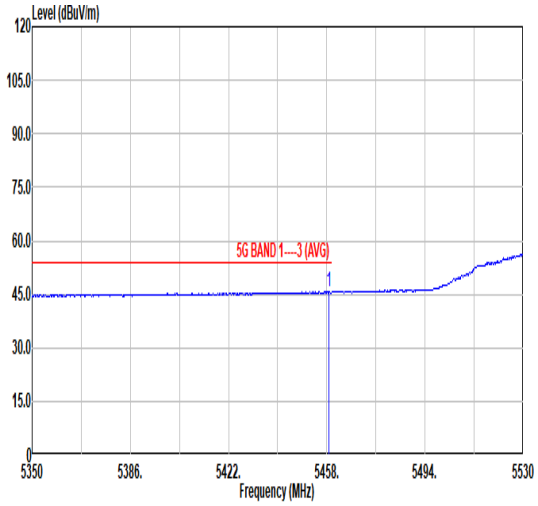
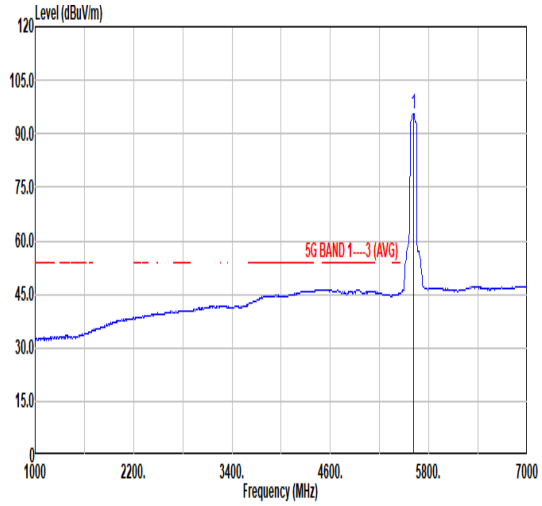
Mode	28	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5436.58 58.59 74.00 -15.41 44.66 34.85 12.13 33.05 0.00 100 263 PEAK 2 5463.40 61.27 68.30 -7.03 47.28 34.87 12.15 33.03 0.00 100 263 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5530.00 99.66 ------ ------ 85.51 34.94 12.22 33.01 0.00 100 263 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5459.08 50.89 54.00 -3.11 36.91 34.87 12.15 33.04 0.00 100 263 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5530.00 92.18 ------ ------ 78.03 34.94 12.22 33.01 0.00 100 263 AVERAGE

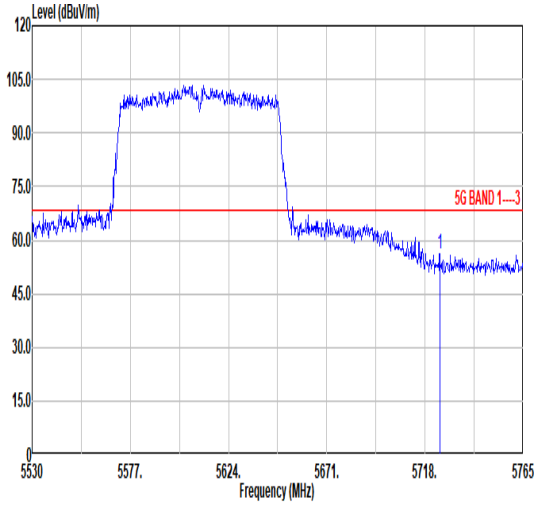
Mode	28	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5726.93 56.22 68.30 -12.08 41.62 35.16 12.39 32.95 0.00 100 263 PEAK	Blank

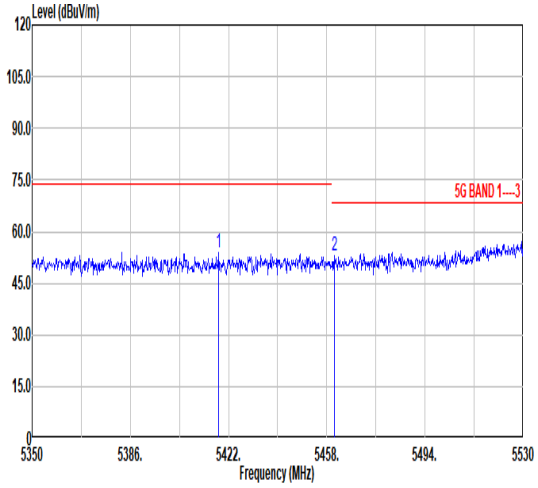
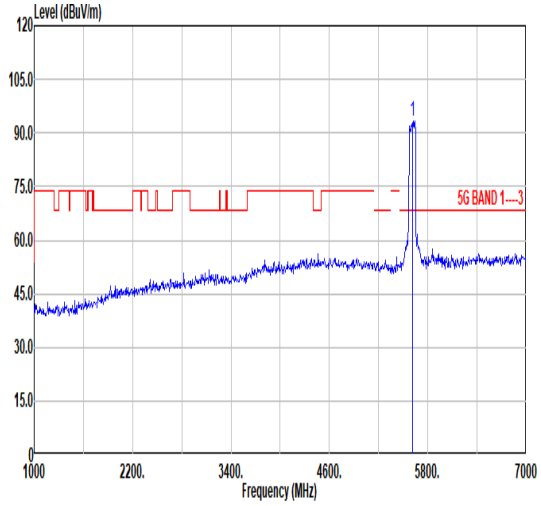
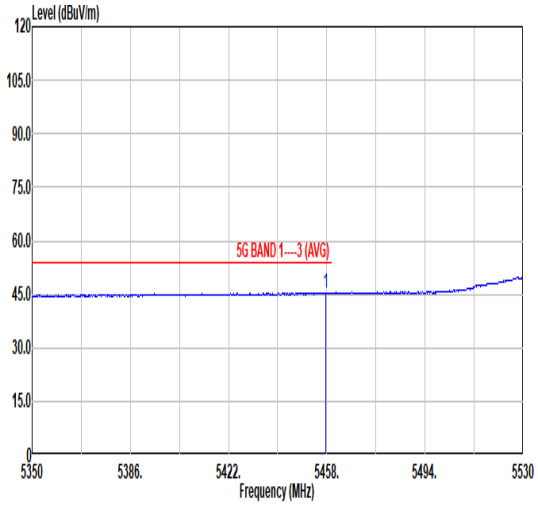
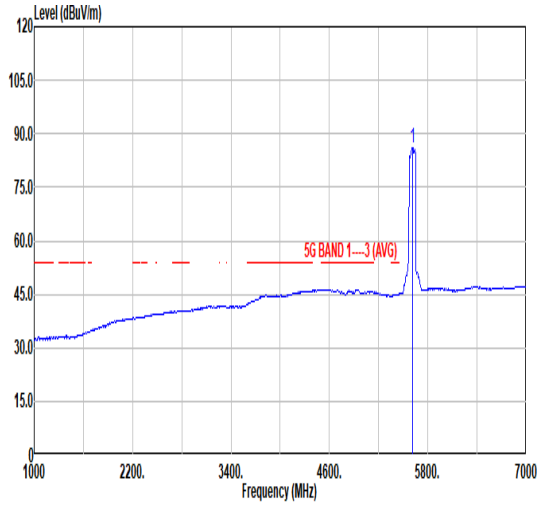
Mode	28	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5430.28 54.64 74.00 -19.36 40.73 34.84 12.12 33.05 0.00 391 27 PEAK 2 5463.94 55.03 68.30 -13.27 41.04 34.87 12.15 33.03 0.00 391 27 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5530.00 96.48 ------ ------ 82.35 34.93 12.21 33.01 0.00 391 27 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5458.54 46.35 54.00 -7.65 32.37 34.87 12.15 33.04 0.00 391 27 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5530.00 89.14 ------ ------ 75.01 34.93 12.21 33.01 0.00 391 27 AVERAGE

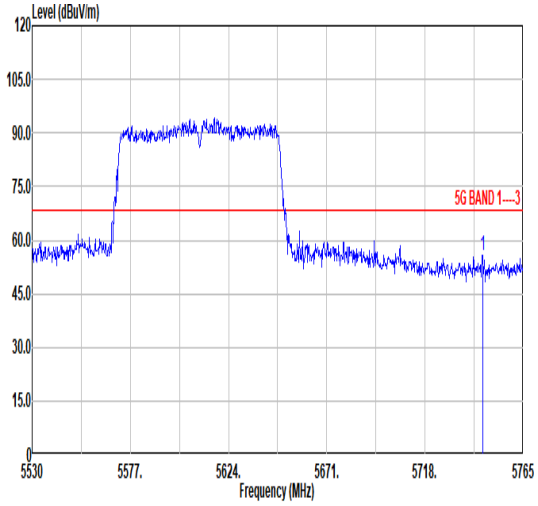
Mode	28	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5746.44 54.72 68.30 -13.58 40.07 35.19 12.41 32.95 0.00 391 27 PEAK	Blank

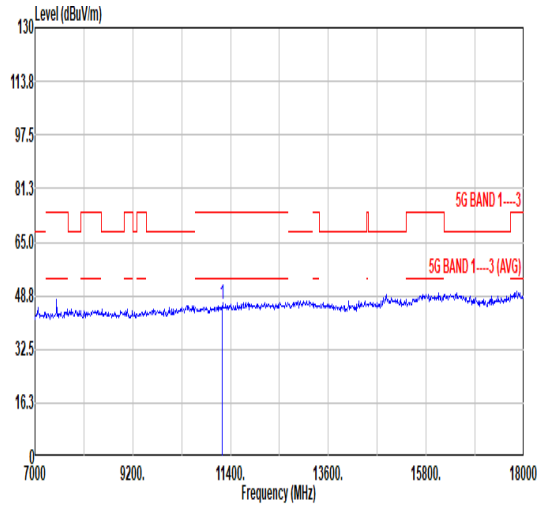
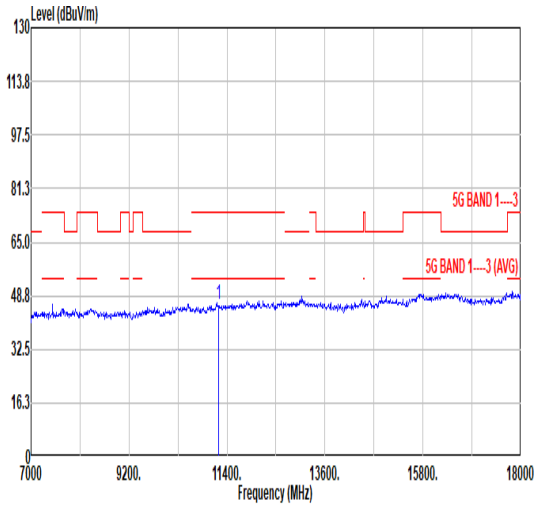
Mode	28	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11060.00 45.94 74.00 -28.06 54.98 38.04 14.61 61.69 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11060.00 47.11 74.00 -26.89 56.15 38.04 14.61 61.69 0.00 100 0 PEAK 2 11060.00 35.40 54.00 -18.60 44.41 38.05 14.62 61.68 0.00 100 0 AVERAGE

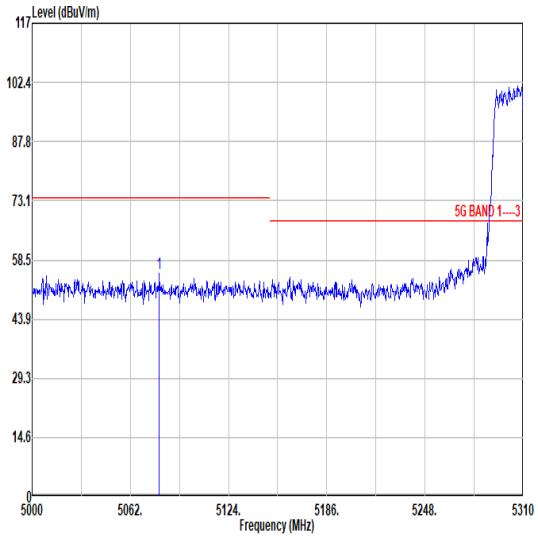
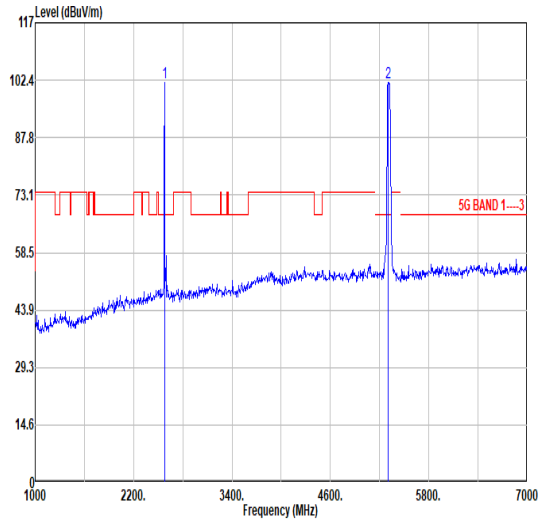
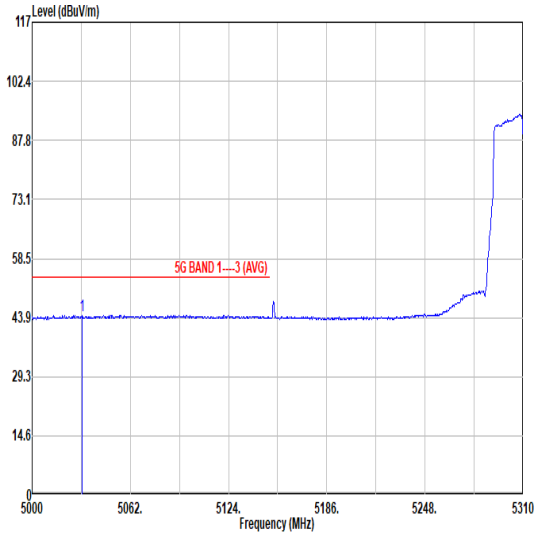
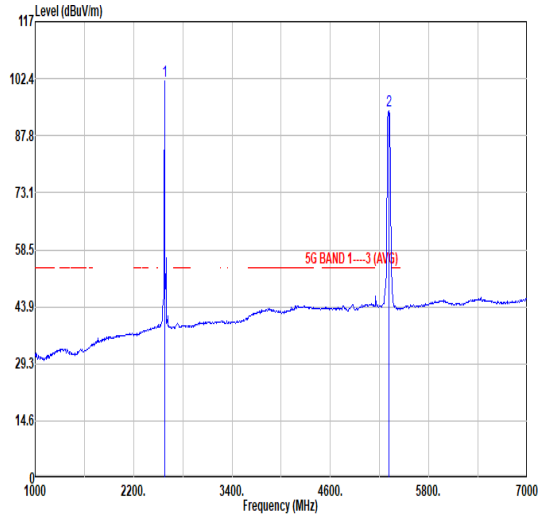
Mode	29	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5414.98 54.06 74.00 -19.94 40.18 34.83 12.10 33.05 0.00 103 239 PEAK 2 5463.22 54.28 68.30 -14.02 40.29 34.87 12.15 33.03 0.00 103 239 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5610.00 103.72 ------ ------ 89.38 35.04 12.29 32.99 0.00 103 239 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5458.72 45.78 54.00 -8.22 31.80 34.87 12.15 33.04 0.00 103 239 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5610.00 95.72 ------ ------ 81.38 35.04 12.29 32.99 0.00 103 239 AVERAGE

Mode	29	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5725.05 56.03 68.30 -12.27 41.43 35.16 12.39 32.95 0.00 103 239 PEAK	Blank

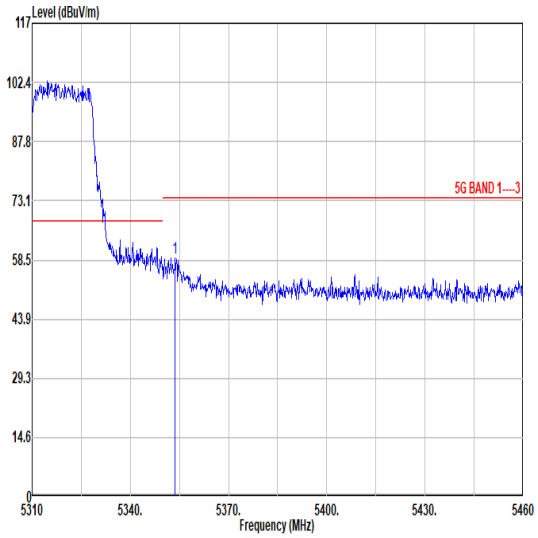
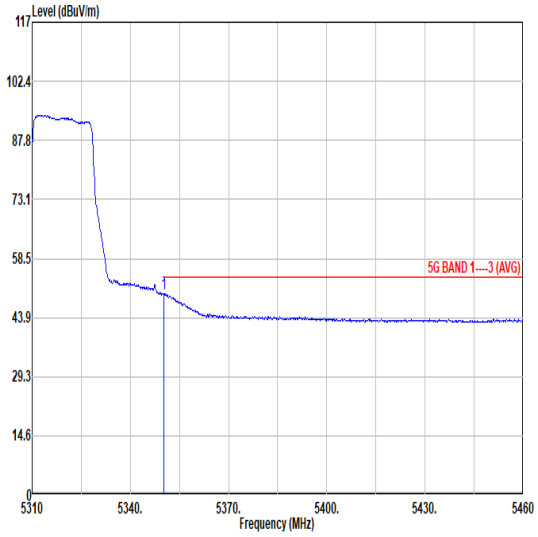
Mode	29	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5418.22 53.97 74.00 -20.03 40.08 34.83 12.11 33.05 0.00 100 36 PEAK 2 5460.88 52.97 68.30 -15.33 38.99 34.87 12.15 33.04 0.00 100 36 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5610.00 93.23 ------ ------ 78.87 35.04 12.30 32.98 0.00 100 36 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5457.64 45.44 54.00 -8.56 31.46 34.87 12.15 33.04 0.00 100 36 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5610.00 86.15 ------ ------ 71.81 35.04 12.29 32.99 0.00 100 36 AVERAGE

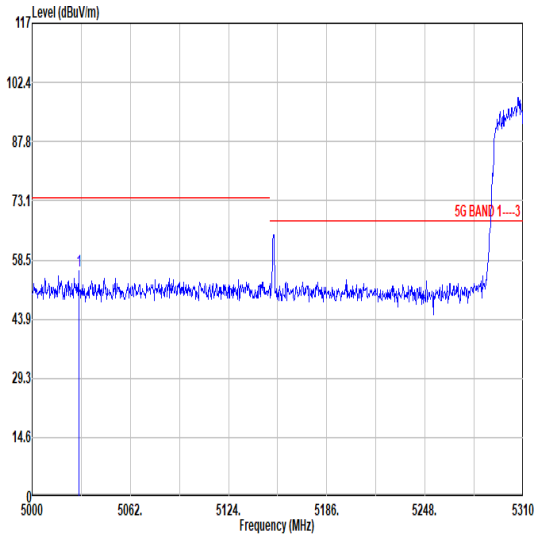
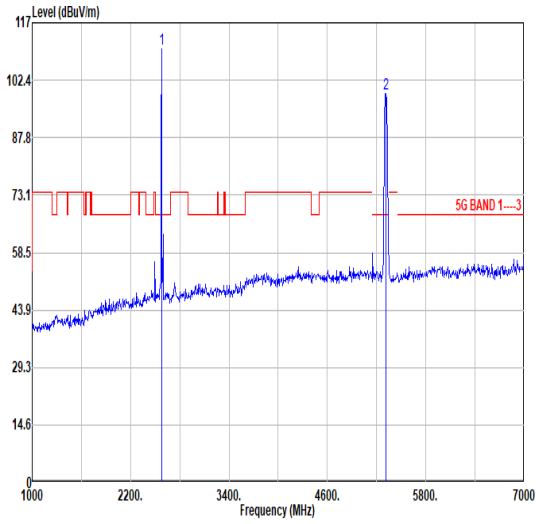
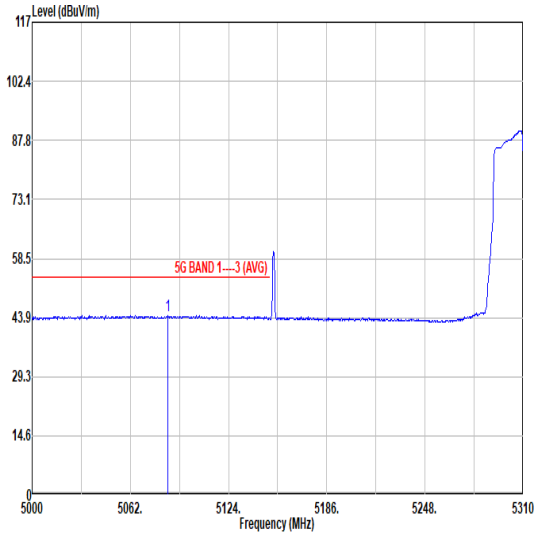
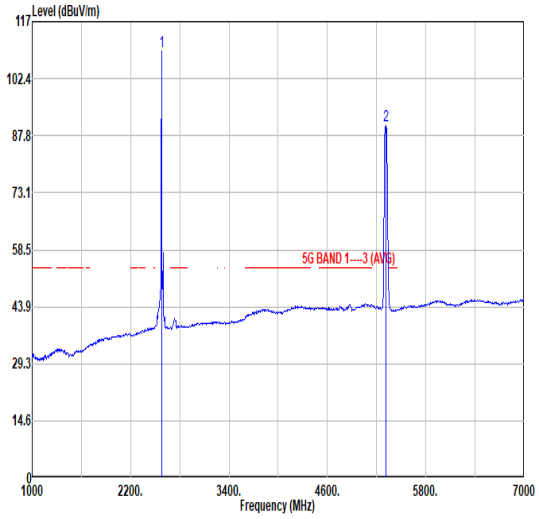
Mode	29	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.50 55.90 68.30 -12.40 41.26 35.18 12.41 32.95 0.00 100 36 PEAK	Blank

Mode	29	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11220.00 46.01 74.00 -27.99 54.79 38.13 14.72 61.63 0.00 300 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11220.00 46.00 74.00 -28.00 54.78 38.13 14.72 61.63 0.00 100 0 PEAK

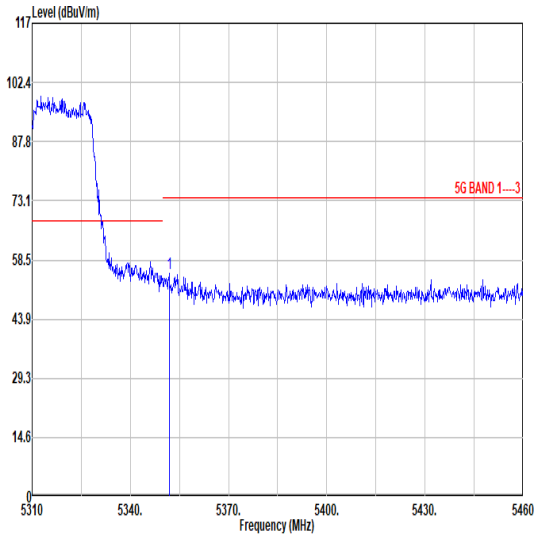
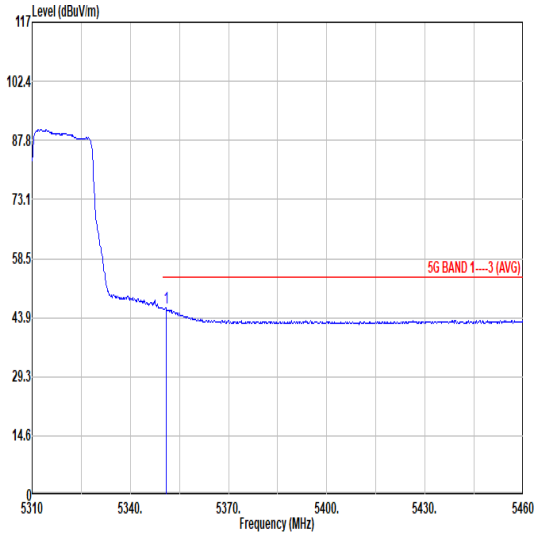
Mode	30	
	Band Edge - L	
	U-NII-2A_802.11ac VHT40_CH62_TX + LTE Band 38 link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5080.29 55.14 14.00 41.14 43.07 34.10 9.73 31.76 0.00 100 241 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2578.00 101.91 ------ ------ 95.12 32.44 6.86 32.51 0.00 100 241 Peak 2 5308.00 101.77 ------ ------ 89.26 34.52 9.89 31.90 0.00 100 241 Peak
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5031.62 44.47 54.00 -9.53 32.42 34.10 9.68 31.73 0.00 100 241 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2578.00 101.80 ------ ------ 95.01 32.44 6.86 32.51 0.00 100 241 Average 2 5314.00 94.06 ------ ------ 81.53 34.54 9.89 31.90 0.00 100 241 Average

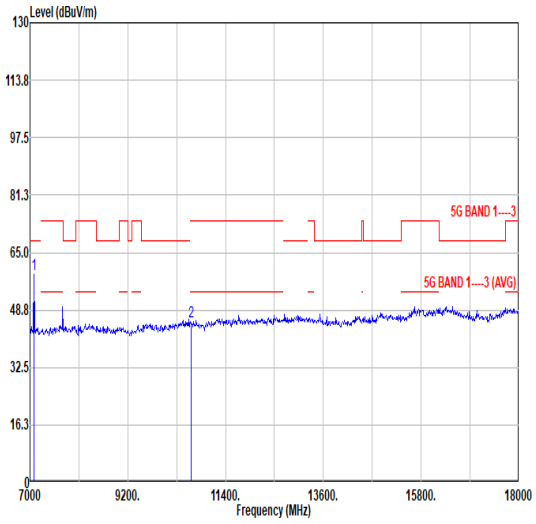
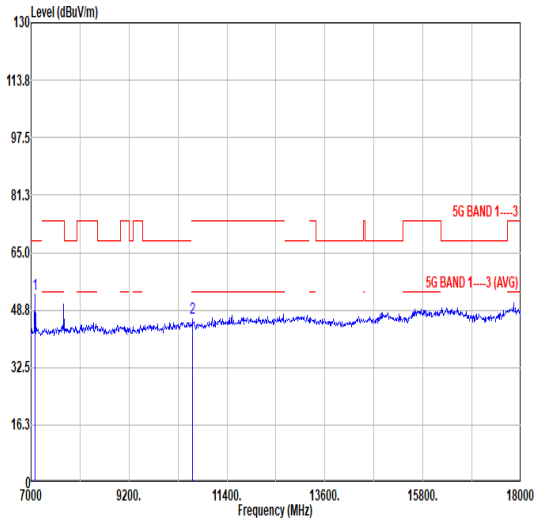
Remark: The Fundamental plot #1 is LTE Band 38 fundamental signal, #2 is WLAN TX fundamental signal.

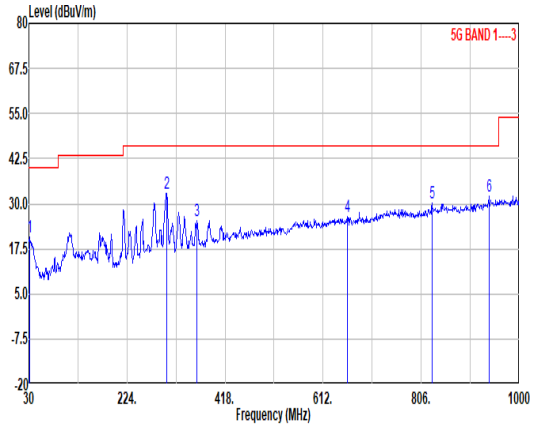
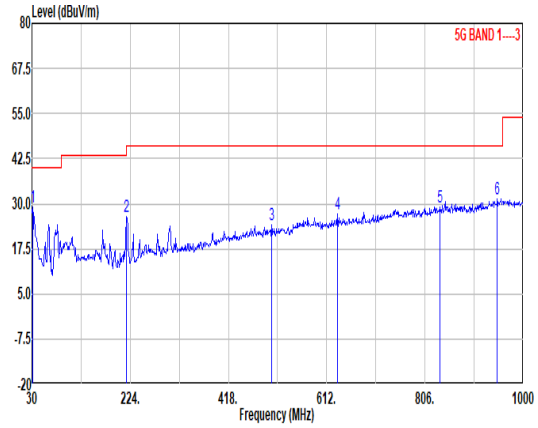
Mode	30	
	Band Edge - R	
	U-NII-2A_802.11ac VHT40_CH62_TX + LTE Band 38 link	
Pol.	Horizontal	Fundamental
Peak	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5353.65 59.07 74.00 -14.93 46.44 34.65 9.91 31.93 0.00 100 241 PEAK	Blank
Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.20 49.86 54.00 -4.14 37.23 34.64 9.91 31.92 0.00 100 241 AVERAGE	Blank

Mode	30	
	Band Edge - L	
	U-NII-2A_802.11ac VHT40_CH62_TX + LTE Band 38 link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5029.45 55.72 74.00 -18.28 43.67 34.10 9.68 31.73 0.00 394 27 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2578.00 110.19 ------ ------ 103.40 32.44 6.86 32.51 0.00 394 27 Peak 2 5314.00 98.92 ------ ------ 86.39 34.54 9.89 31.90 0.00 394 27 Peak
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5085.87 44.45 54.00 -9.55 32.38 34.10 9.73 31.76 0.00 394 27 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2578.00 109.51 ------ ------ 102.72 32.44 6.86 32.51 0.00 394 27 Average 2 5314.00 90.39 ------ ------ 77.86 34.54 9.89 31.90 0.00 394 27 Average

Remark: The Fundamental plot #1 is LTE Band 38 fundamental signal, #2 is WLAN TX fundamental signal.

Mode	30	
	Band Edge - R	
	U-NII-2A_802.11ac VHT40_CH62_TX + LTE Band 38 link	
Pol.	Vertical	Fundamental
Peak	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5351.85 55.17 74.00 -18.83 42.54 34.65 9.91 31.93 0.00 394 27 PEAK	Blank
Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5350.95 46.27 54.00 -7.73 33.63 34.65 9.91 31.92 0.00 394 27 AVERAGE	Blank

Mode	30	
	Harmonic	
	U-NII-2A_802.11ac VHT40_CH62_TX + LTE Band 38 link	
Pol.	Horizontal	Vertical
Peak Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7088.00 58.72 68.30 -9.58 73.49 35.70 11.56 62.03 0.00 100 257 Peak 2 10620.00 45.52 74.00 -28.48 55.08 37.77 14.31 61.64 0.00 300 0 PEAK	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7088.00 53.19 68.30 -15.11 67.96 35.70 11.56 62.03 0.00 100 84 Peak 2 10620.00 46.46 74.00 -27.54 56.02 37.77 14.31 61.64 0.00 100 0 PEAK

Mode	31	
	LF	
	U-NII-2A_5.25-5.35_802.11ac VHT40_CH62_5310MHz	
Pol.	Horizontal	Vertical
QP/ Peak		

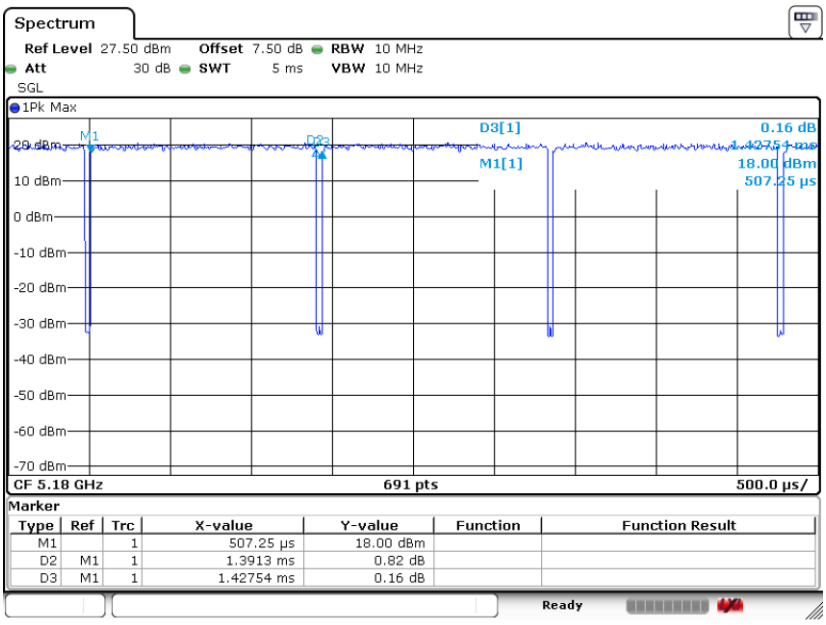
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	20.57	40.00	-19.43	28.65	24.44	0.47	32.99	0.00	---	---	Peak
2	302.57	33.01	46.00	-12.99	44.05	19.42	2.35	32.81	0.00	---	---	Peak
3	361.74	25.34	46.00	-20.66	34.95	20.74	2.56	32.91	0.00	---	---	Peak
4	659.53	26.40	46.00	-19.60	29.36	26.53	3.48	32.97	0.00	---	---	Peak
5	827.34	30.20	46.00	-15.80	29.90	28.96	3.88	32.54	0.00	---	---	Peak
6	939.86	32.02	46.00	-13.98	29.03	30.55	4.13	31.69	0.00	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	29.07	40.00	-10.93	37.15	24.44	0.47	32.99	0.00	---	---	Peak
2	217.21	26.47	46.00	-19.53	42.05	15.25	1.99	32.82	0.00	---	---	Peak
3	503.36	23.96	46.00	-22.04	29.85	24.01	3.03	32.93	0.00	---	---	Peak
4	633.34	27.01	46.00	-18.99	29.93	26.67	3.40	32.99	0.00	---	---	Peak
5	836.07	29.01	46.00	-16.99	28.39	29.20	3.90	32.48	0.00	---	---	Peak
6	948.59	31.29	46.00	-14.71	27.89	30.91	4.15	31.66	0.00	---	---	Peak

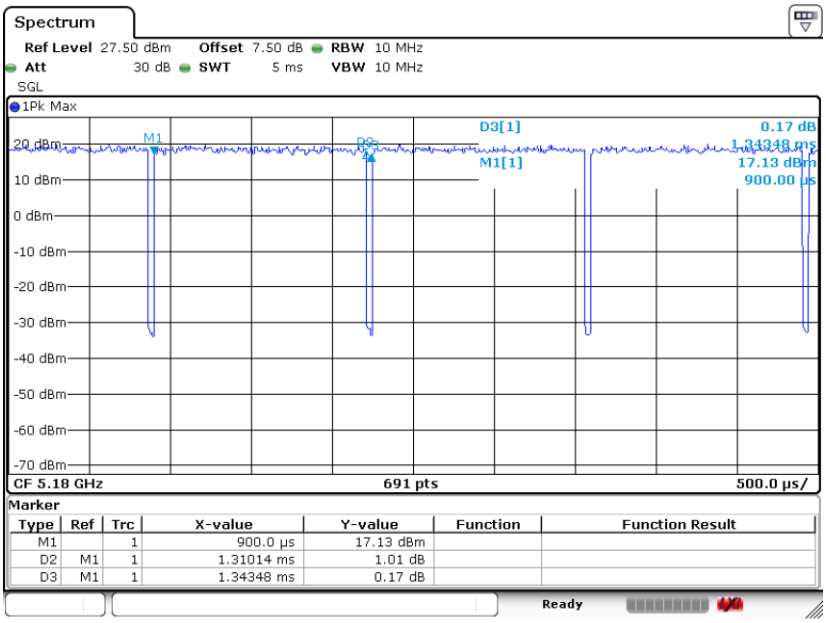
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	97.46	1.391	0.719	0.75KHz
802.11ac VHT20	97.52	1.310	0.763	0.82KHz
802.11ac VHT40	94.53	0.654	1.530	1.6KHz
802.11ac VHT80	90.69	0.325	3.080	3.3KHz

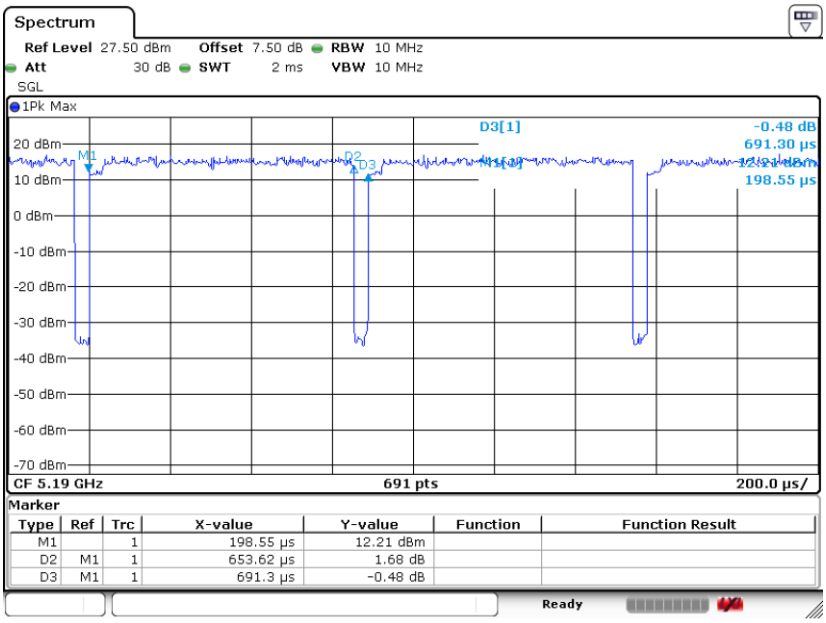
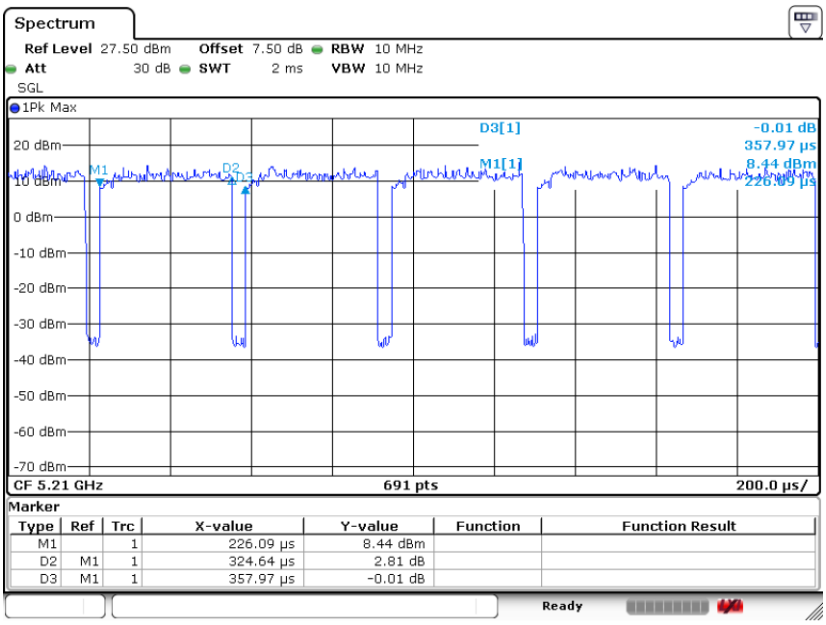
802.11a



802.11ac VHT20



802.11ac VHT40



802.11ac VHT80