FCC RF Test Report

APPLICANT	:	AltoBeam Inc.
EQUIPMENT	:	ATBM6132
BRAND NAME	:	ALTOBEAM
MODEL NAME	:	ATBM6132
FCC ID	:	2BAVSATBM6132
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Mar. 20, 2024 ~ Jun. 07, 2024

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 7
1.6 Testing Location 7
1.7 Test Software 7
1.8 Applicable Standards 8

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **9**

2.1 Carrier Frequency and Channel 9
2.2 Test Mode 10
2.3 Connection Diagram of Test System 11
2.4 Support Unit used in test configuration and system 12
2.5 EUT Operation Test Setup 12
2.6 Measurement Results Explanation Example 12

3 TEST RESULT **13**

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement 13
3.2 Maximum Conducted Output Power Measurement 17
3.3 Power Spectral Density Measurement 19
3.4 Unwanted Emissions Measurement 23
3.5 AC Conducted Emission Measurement 28
3.6 Antenna Requirements 30

4 LIST OF MEASURING EQUIPMENT **31**

5 MEASUREMENT UNCERTAINTY **32**

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. AC CONDUCTED EMISSION TEST RESULT

APPENDIX C. RADIATED SPURIOUS EMISSION

APPENDIX D. DUTY CYCLE PLOTS

APPENDIX E. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR431203C	Rev. 01	Initial issue of report	Jun. 14, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 0.53 dB at 5469.60 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 2.27 dB at 2.31 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

AltoBeam Inc.
B808,Tsinghua Tongfang Hi-Tech Plaza,Haidian Beijing China

1.2 Manufacturer

AltoBeam Inc.
B808,Tsinghua Tongfang Hi-Tech Plaza,Haidian Beijing China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ATBM6132
Brand Name	ALTOBEAM
Model Name	ATBM6132
FCC ID	2BAVSATBM6132
HW Version	V1.2
SW Version	V2.10.120
EUT Stage	Production Unit

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 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 20.52 dBm / 0.1127 W 802.11n HT20 : 20.57 dBm / 0.1140 W 802.11n HT40 : 19.05 dBm / 0.0804 W **<5260 MHz ~ 5320 MHz>** 802.11a : 20.25 dBm / 0.1059 W 802.11n HT20 : 20.27 dBm / 0.1064 W 802.11n HT40 : 19.30 dBm / 0.0851 W **<5500 MHz ~ 5700 MHz >** 802.11a : 20.30 dBm / 0.1072 W 802.11n HT20 : 20.31 dBm / 0.1074 W 802.11n HT40 : 19.46 dBm / 0.0883 W **<5745 MHz ~ 5825 MHz>** 802.11a : 20.15 dBm / 0.1035 W 802.11n HT20 : 20.16 dBm / 0.1038 W 802.11n HT40 : 19.21 dBm / 0.0834 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 24.53 MHz 802.11n HT20 : 25.32 MHz 802.11n HT40 : 42.76 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 23.08 MHz 802.11n HT20 : 24.13 MHz 802.11n HT40 : 37.66 MHz **<5500 MHz ~ 5700 MHz>** 802.11a : 27.27 MHz 802.11n HT20 : 28.52 MHz 802.11n HT40 : 49.15 MHz **<5745 MHz ~ 5825 MHz>** 802.11a : 27.97 MHz 802.11n HT20 : 28.47 MHz 802.11n HT40 : 59.84 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** Rod antenna with gain 3.4 dBi **<5260 MHz ~ 5320 MHz>** Rod antenna with gain 2.88 dBi **<5500 MHz ~ 5700 MHz>** Rod antenna with gain 3.67 dBi **<5745 MHz ~ 5825 MHz>** Rod antenna with gain 2.88 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Note: WLAN operation in 5600 MHz ~ 5650 MHz is notched.

1.5 Modification of EUT

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

1.6 Testing Location

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

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 (Z plane for UNII-1/2A/2C, Y plane for UNII-3) 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)
5500-5700MHz 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)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.

2.2 Test Mode

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

SISO Mode

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

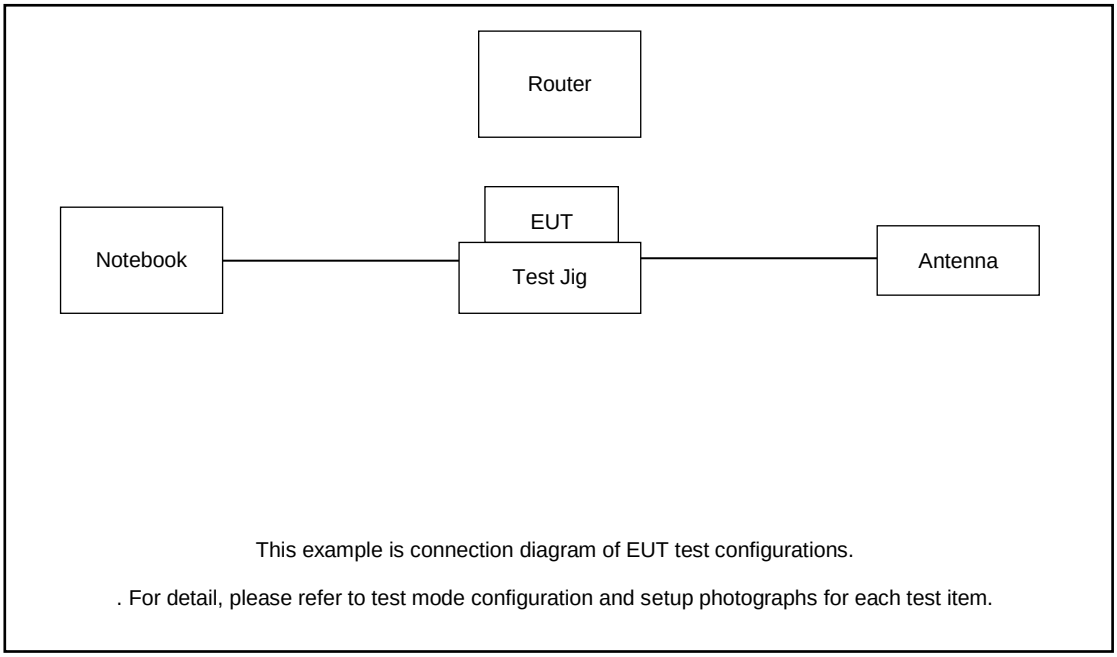
AC Conducted Emission	Mode 1 : WLAN Link(5G) + Charging from NB
Remark: For Radiated Test Cases, The tests were performance with Notebook.	

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165

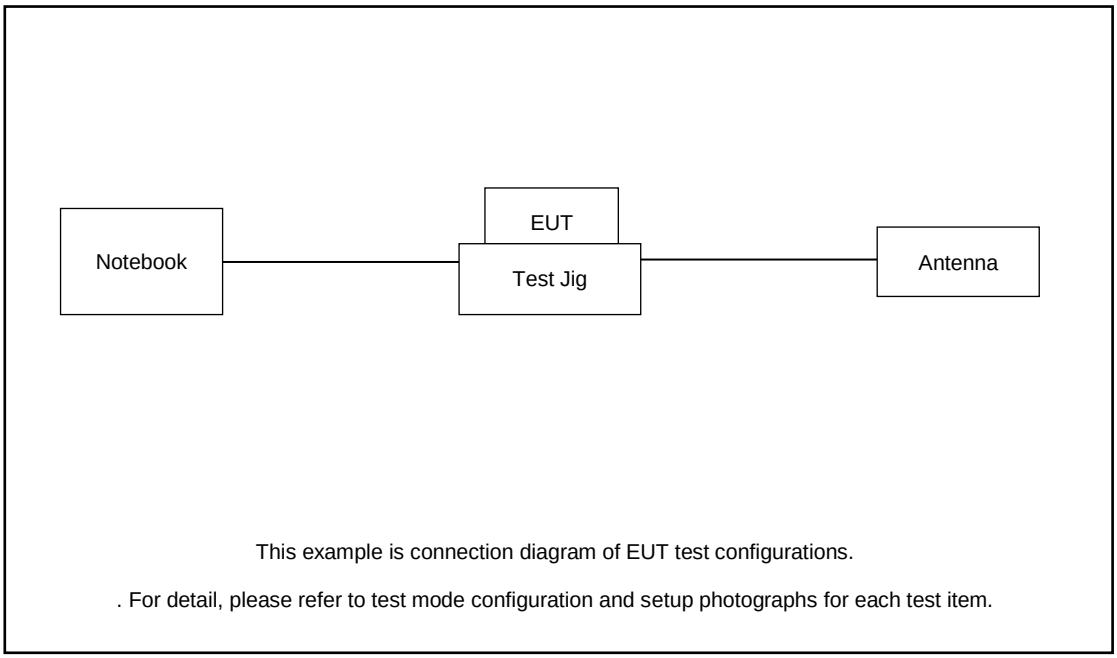
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159

2.3 Connection Diagram of Test System

AC Conducted Emission:



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.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
2.	Notebook	N/A	N/A	N/A	N/A	N/A
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT 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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.80 dB and 10dB attenuator.

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

= 1.80 + 10 = 11.80 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

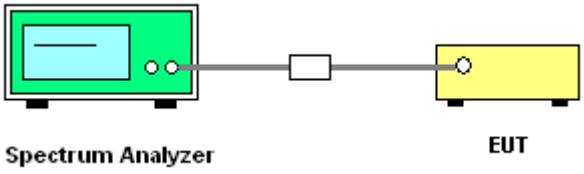
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

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

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = approximately 1% of the emission bandwidth. **2.** Set the VBW > RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** 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%. **6.** For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW. **7.** Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100kHz. **2.** Set the VBW ≥ 3 x RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 6 dB down from the peak of the emission. **6.** Measure and record the results in the test report.

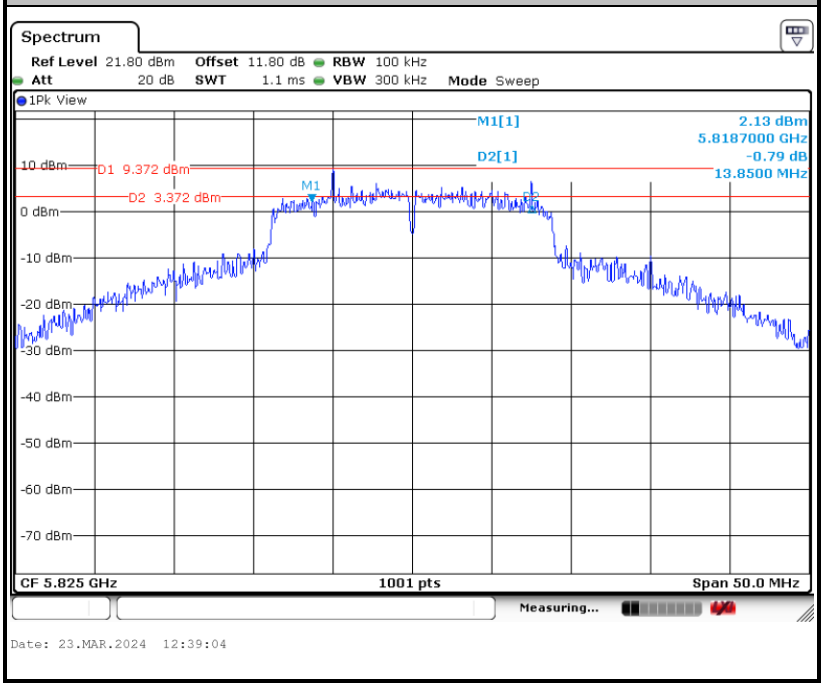
3.1.4 Test Setup



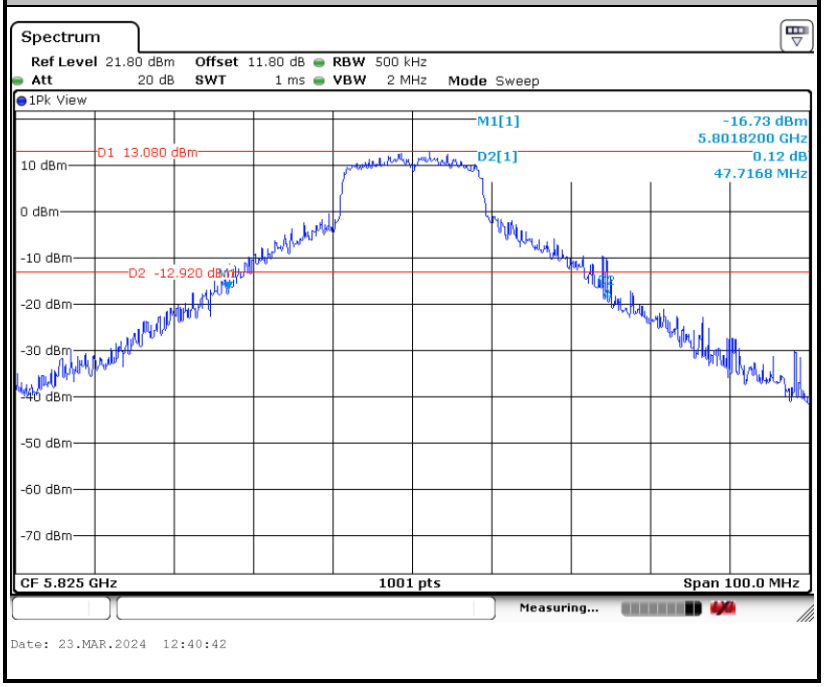
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

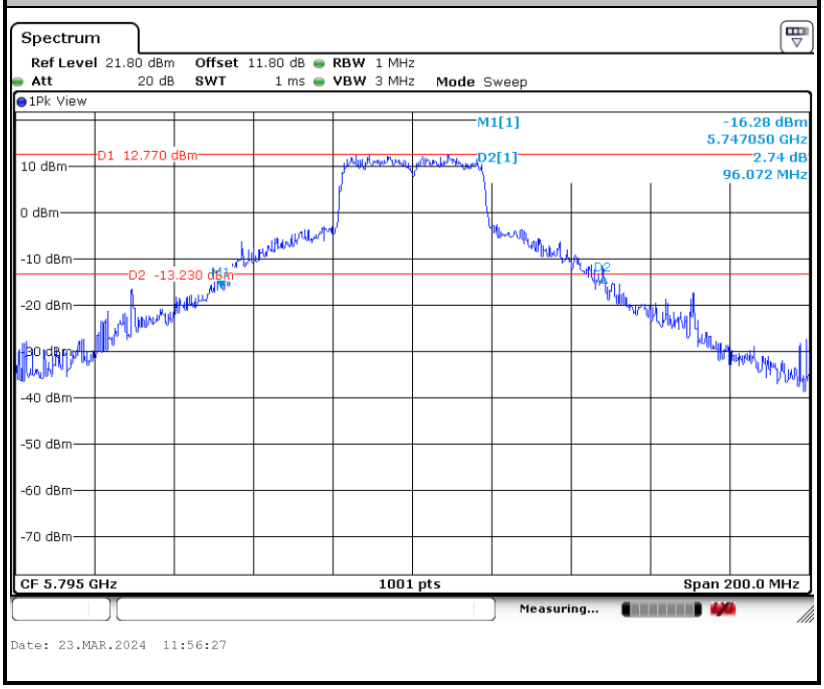
Minimum 6dB Bandwidth



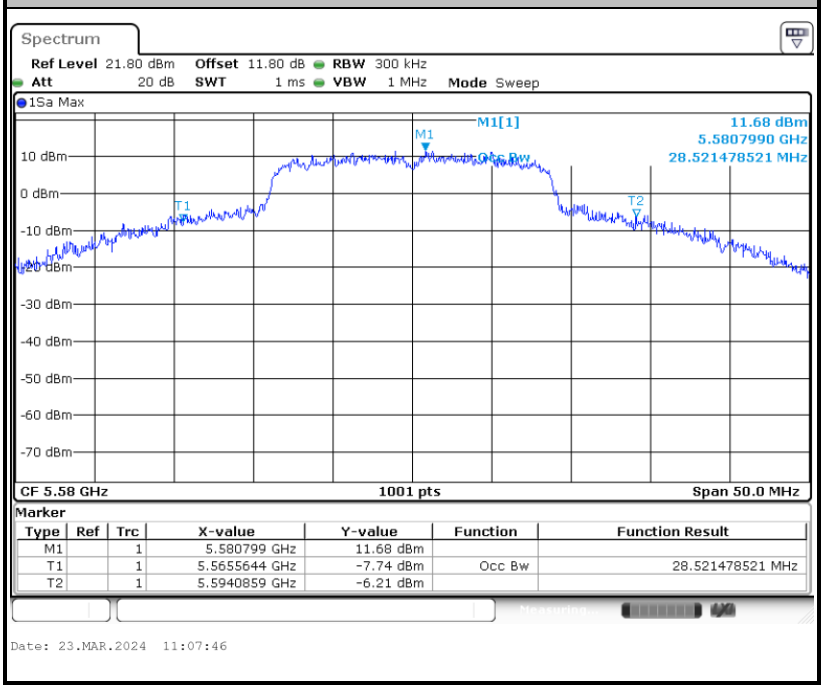
Maximum 26dB Bandwidth for 20M BW



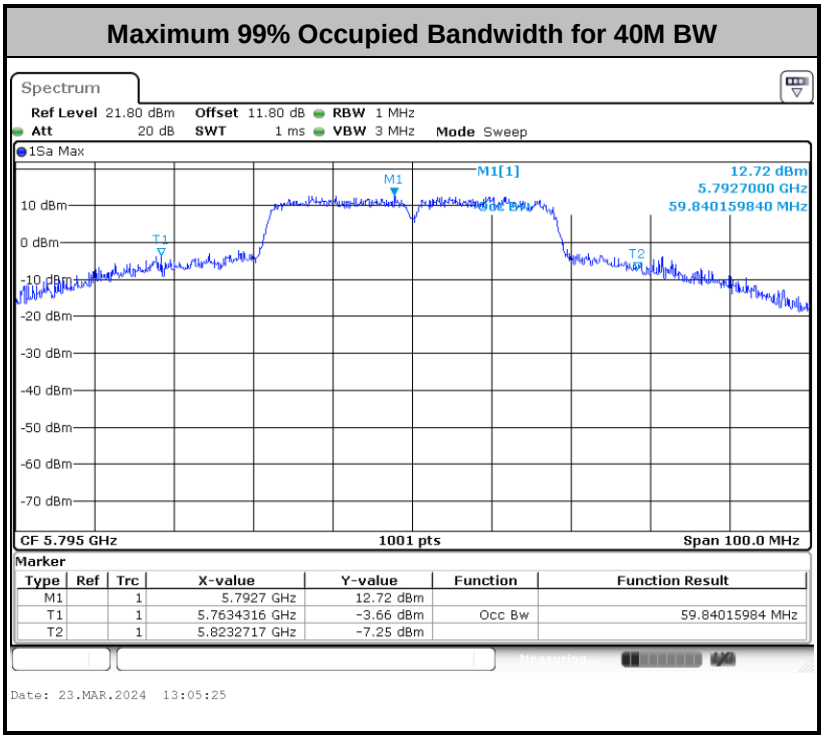
Maximum 26dB Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 40M 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.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

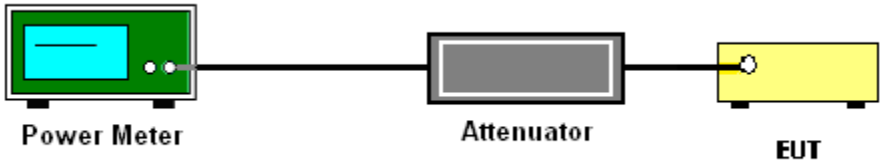
3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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 v01r04. Section F) Maximum power spectral density.

For devices operating in the bands UNII-1/2A/2C

 # 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.

For devices operating in the band UNII-3

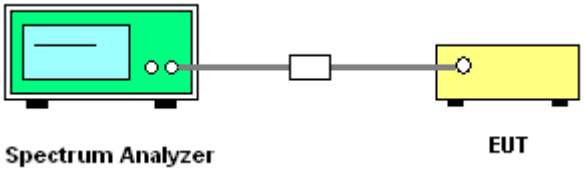
 # Method SA-2 #

(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 = 500KHz (or 300 kHz if the SA can’t set RBW=500KHz).
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can’t set RBW=500KHz, then add 10 log(500kHz/RBW) to the test result.
- 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

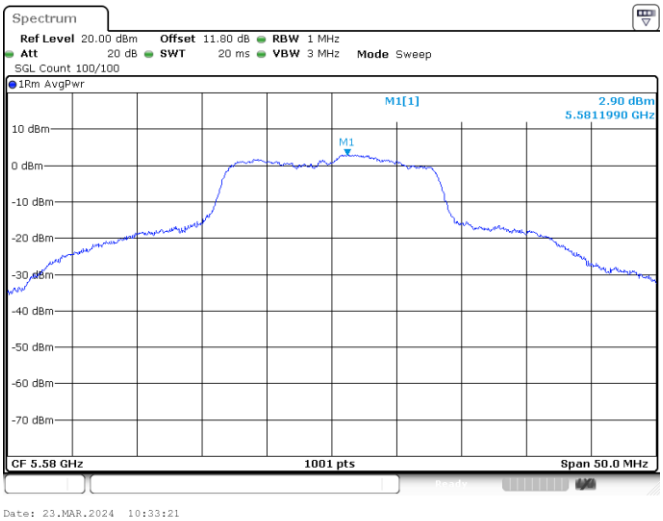


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

For devices operating in the bands UNII-1/2A/2C

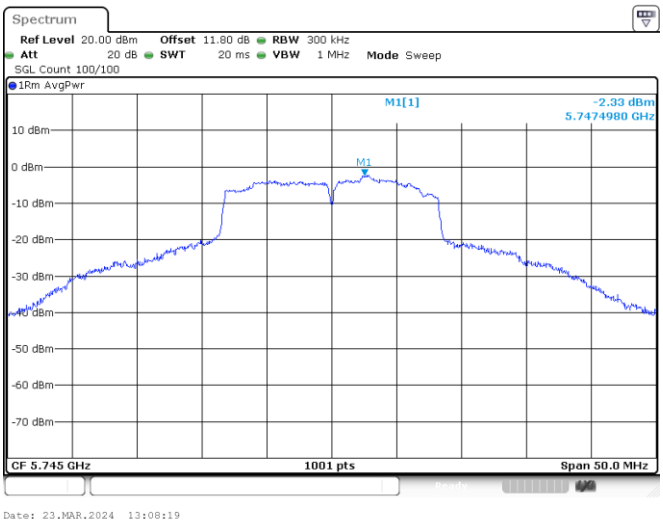
Worst Case Power Density (dBm/MHz)



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

For devices operating in the band UNII-3

Worst Case Power Density (dBm/300kHz)



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

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) 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

(4) 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 v01r04. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

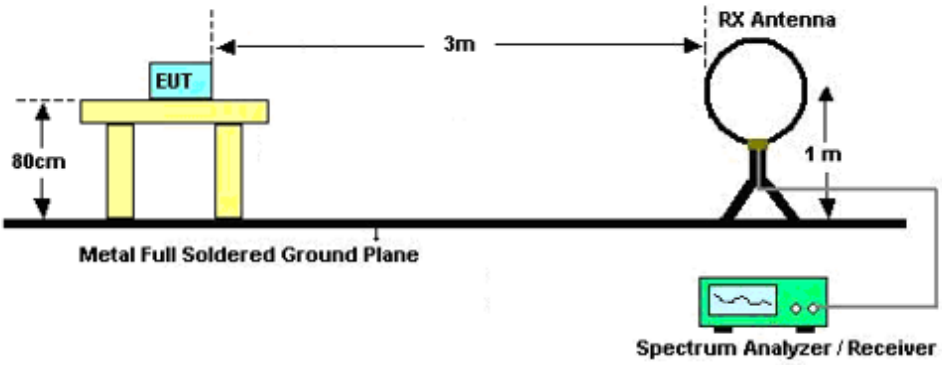
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

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

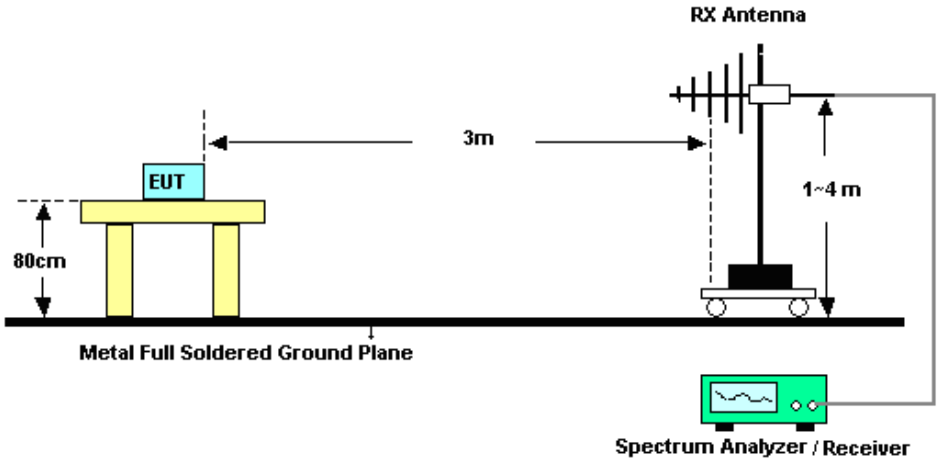
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

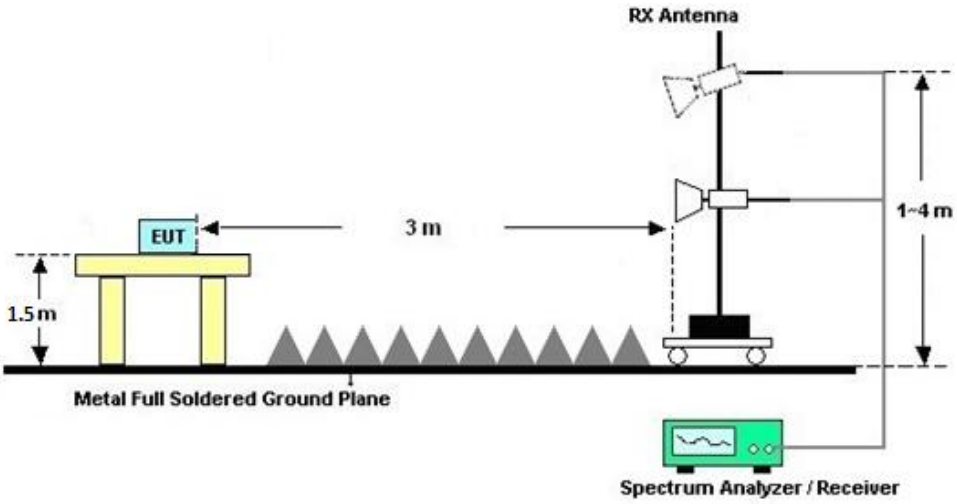
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line 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)

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.

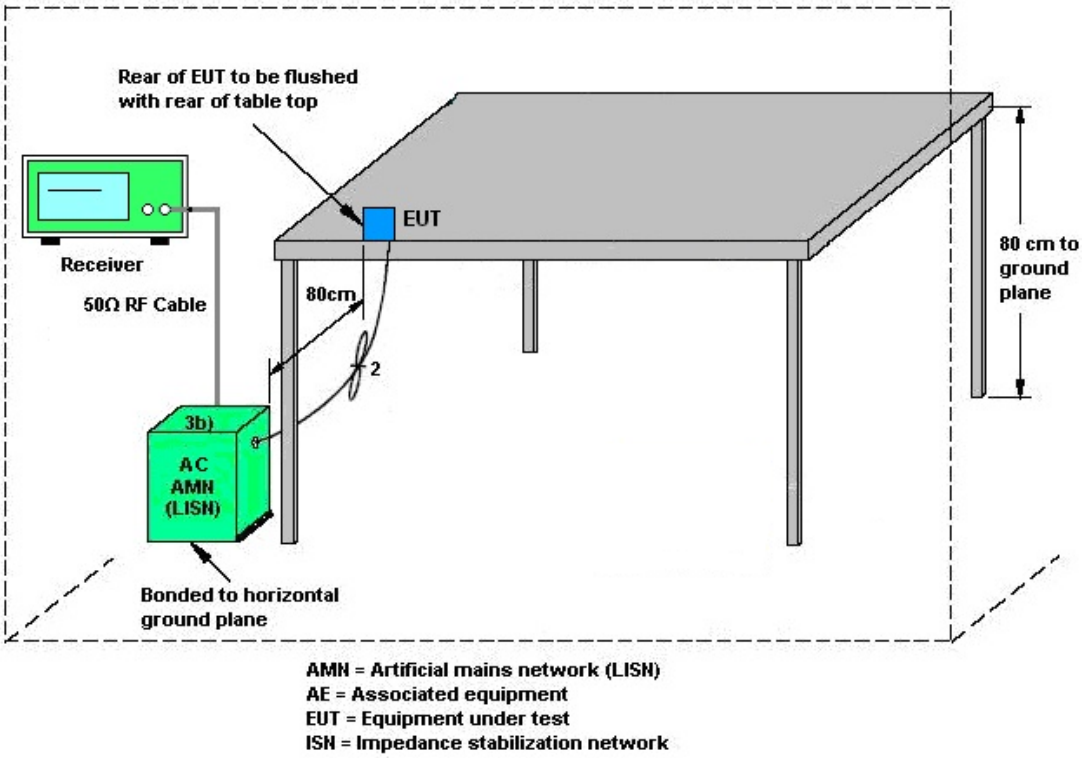
3.5.2 Measuring Instruments

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

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

3.6.2 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
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Mar. 20, 2024~ May 28, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Mar. 20, 2024~ May 28, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Mar. 20, 2024~ May 28, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Mar. 20, 2024~ May 28, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Mar. 20, 2024~ May 28, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08,2023	Mar. 20, 2024~ Mar. 31, 2024	Apr. 07,2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09,2024	May 22, 2024~ May 28, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Mar. 20, 2024~ Mar. 31, 2024	Apr. 03,2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	May 22, 2024~ May 28, 2024	Apr. 08,2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18,2023	Mar. 20, 2024~ May 28, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18,2023	Mar. 20, 2024~ May 28, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Mar. 20, 2024~ May 28, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18,2023	Mar. 20, 2024~ May 28, 2024	Oct. 17,2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 20, 2024~ May 28, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 20, 2024~ May 28, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Jun. 07, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Jun. 07, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Jun. 07, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Jun. 07, 2024	Jul. 06, 2024	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Mar. 23, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Mar. 23, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	Mar. 23, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Mar. 23, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Mar. 23, 2024	Jul. 04, 2024	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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 Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB

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

Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Chen ZhiQiang	Temperature:	21~25	°C
Test Date:	2024/3/23	Relative Humidity:	51~54	%

Report Number : FR431203C

TEST RESULTS DATA
26dB and 99% OBW

<5180 MHz ~ 5240 MHz>								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)		
11a	6Mbps	1	36	5180	24.53	42.14		
11a	6Mbps	1	44	5220	24.48	41.28		
11a	6Mbps	1	48	5240	18.08	41.66		
HT20	MCS0	1	36	5180	24.93	41.86		
HT20	MCS0	1	44	5220	25.32	42.06		
HT20	MCS0	1	48	5240	18.18	43.00		
HT40	MCS0	1	38	5190	42.76	88.64		
HT40	MCS0	1	46	5230	36.26	86.60		

FR431203C

TEST RESULTS DATA
Average Power Table

<5180 MHz ~ 5240 MHz>										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6Mbps	1	36	5180	6.97	17.20	24.00	3.40	Pass	deltagain=-5.5
11a	6M bps	1	40	5200	6.97	20.03	24.00	3.40	Pass	deltagain=0
11a	6Mbps	1	44	5220	6.97	20.52	24.00	3.40	Pass	deltagain=0
11a	6Mbps	1	48	5240	6.97	20.01	24.00	3.40	Pass	deltagain=-1
HT20	MCS0	1	36	5180	6.92	16.55	24.00	3.40	Pass	deltagain=-5.5
HT20	MCS 0	1	40	5200	6.92	20.01	24.00	3.00	Pass	deltagain=0
HT20	MCS0	1	44	5220	6.92	20.57	24.00	3.40	Pass	deltagain=0
HT20	MCS0	1	48	5240	6.92	20.05	24.00	3.40	Pass	deltagain=-1
HT40	MCS0	1	38	5190	6.09	12.57	24.00	3.40	Pass	deltagain=-8.5
HT40	MCS0	1	46	5230	6.09	19.05	24.00	3.40	Pass	deltagain=-1

Report Number : FR431203C

TEST RESULTS DATA
Power Spectral Density

<5180 MHz ~ 5240 MHz>										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	6.97	9.86	11.00	3.40		Pass
11a	6Mbps	1	44	5220	6.97	9.96	11.00	3.40		Pass
11a	6Mbps	1	48	5240	6.97	9.83	11.00	3.40		Pass
HT20	MCS0	1	36	5180	6.92	9.72	11.00	3.40		Pass
HT20	MCS0	1	44	5220	6.92	9.86	11.00	3.40		Pass
HT20	MCS0	1	48	5240	6.92	9.94	11.00	3.40		Pass
HT40	MCS0	1	38	5190	6.09	5.28	11.00	3.40		Pass
HT40	MCS0	1	46	5230	6.09	5.70	11.00	3.40		Pass

Report Number : FR431203C

TEST RESULTS DATA
26dB and 99% OBW

<5260 MHz ~ 5320 MHz>								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)		
11a	6M bps	1	52	5260	17.53	40.36		
11a	6M bps	1	60	5300	23.08	39.06		
11a	6M bps	1	64	5320	23.03	39.44		
HT20	MCS 0	1	52	5260	18.23	43.32		
HT20	MCS 0	1	60	5300	24.13	42.50		
HT20	MCS 0	1	64	5320	23.43	40.00		
HT40	MCS 0	1	54	5270	36.96	87.80		
HT40	MCS 0	1	62	5310	37.66	84.55		

TEST RESULTS DATA
Average Power Table

<5260 MHz ~ 5320 MHz>										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6M bps	1	52	5260	6.97	20.25	23.98	2.88	Pass	deltagain=0
11a	6M bps	1	60	5300	6.97	20.15	23.98	2.88	Pass	deltagain=0
11a	6M bps	1	64	5320	6.97	17.61	23.98	2.88	Pass	deltagain=-4.5
HT20	MCS 0	1	52	5260	6.92	20.27	23.98	2.88	Pass	deltagain=0
HT20	MCS 0	1	60	5300	6.92	20.17	23.98	2.88	Pass	deltagain=0
HT20	MCS 0	1	64	5320	6.92	17.42	23.98	2.88	Pass	deltagain=-5
HT40	MCS 0	1	54	5270	6.09	19.30	23.98	2.88	Pass	deltagain=0
HT40	MCS 0	1	62	5310	6.09	11.52	23.98	2.88	Pass	deltagain=-7.5

Report Number : FR431203C

TEST RESULTS DATA
Power Spectral Density

<5260 MHz ~ 5320 MHz>										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	6.97	9.20	11.00	2.88		Pass
11a	6M bps	1	60	5300	6.97	8.84	11.00	2.88		Pass
11a	6M bps	1	64	5320	6.97	8.66	11.00	2.88		Pass
HT20	MCS 0	1	52	5260	6.92	8.73	11.00	2.88		Pass
HT20	MCS 0	1	60	5300	6.92	8.75	11.00	2.88		Pass
HT20	MCS 0	1	64	5320	6.92	9.10	11.00	2.88		Pass
HT40	MCS 0	1	54	5270	6.09	4.93	11.00	2.88		Pass
HT40	MCS 0	1	62	5310	6.09	4.96	11.00	2.88		Pass

Report Number : FR431203C

TEST RESULTS DATA
26dB and 99% OBW

<5500 MHz ~ 5700 MHz >								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)		
11a	6M bps	1	100	5500	26.02	42.94		
11a	6M bps	1	116	5580	27.27	44.82		
11a	6M bps	1	140	5700	26.92	42.76		
HT20	MCS 0	1	100	5500	26.77	44.32		
HT20	MCS 0	1	116	5580	28.52	44.96		
HT20	MCS 0	1	140	5700	28.17	43.38		
HT40	MCS 0	1	102	5510	49.15	93.51		
HT40	MCS 0	1	110	5550	46.95	92.75		
HT40	MCS 0	1	134	5670	46.45	90.63		

FR431203C

TEST RESULTS DATA
Average Power Table

<5500 MHz ~ 5700 MHz >										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6M bps	1	100	5500	6.97	18.02	23.98	3.67	Pass	deltagain=-3.5
11a	6M bps	1	116	5580	6.97	20.30	23.98	3.67	Pass	deltagain=1
11a	6Mbps	1	136	5680	6.97	18.53	23.98	3.00	Pass	deltagain=-1.5
11a	6M bps	1	140	5700	6.97	13.20	23.98	3.67	Pass	deltagain=-8.5
HT20	MCS 0	1	100	5500	6.92	17.98	23.98	3.67	Pass	deltagain=-3.5
HT20	MCS 0	1	116	5580	6.92	20.31	23.98	3.67	Pass	deltagain=1
HT20	MCS0	1	136	5680	6.92	18.07	23.98	3.00	Pass	deltagain=-2
HT20	MCS 0	1	140	5700	6.92	12.59	23.98	3.67	Pass	deltagain=-9
HT40	MCS 0	1	102	5510	6.09	13.39	23.98	3.67	Pass	deltagain=-6
HT40	MCS 0	1	110	5550	6.09	18.59	23.98	3.67	Pass	deltagain=-0.5
HT40	MCS0	1	126	5630	6.09	19.46	23.98	3.00	Pass	deltagain=1
HT40	MCS 0	1	134	5670	6.09	15.47	23.98	3.67	Pass	deltagain=-4

Report Number : FR431203C

TEST RESULTS DATA
Power Spectral Density

<5500 MHz ~ 5700 MHz >										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	6.97	9.83	11.00	3.67		Pass
11a	6M bps	1	116	5580	6.97	9.87	11.00	3.67		Pass
11a	6M bps	1	140	5700	6.97	8.87	11.00	3.67		Pass
HT20	MCS 0	1	100	5500	6.92	9.50	11.00	3.67		Pass
HT20	MCS 0	1	116	5580	6.92	9.59	11.00	3.67		Pass
HT20	MCS 0	1	140	5700	6.92	9.01	11.00	3.67		Pass
HT40	MCS 0	1	102	5510	6.09	6.31	11.00	3.67		Pass
HT40	MCS 0	1	110	5550	6.09	6.47	11.00	3.67		Pass
HT40	MCS 0	1	134	5670	6.09	5.14	11.00	3.67		Pass

FR431203

TEST RESULTS DATA
Average Power Table

<5745 MHz ~ 5825 MHz>										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Setting
11a	6M bps	1	149	5745	6.97	20.12	30.00	2.88	Pass	deltagain=2
11a	6Mbps	1	157	5785	6.97	20.13	30.00	2.88	Pass	deltagain=2
11a	6Mbps	1	165	5825	6.97	20.15	30.00	2.88	Pass	deltagain=2
HT20	MCS 0	1	149	5745	6.92	20.13	30.00	2.88	Pass	deltagain=2
HT20	MCS 0	1	157	5785	6.92	20.15	30.00	2.88	Pass	deltagain=2
HT20	MCS 0	1	165	5825	6.92	20.16	30.00	2.88	Pass	deltagain=2
HT40	MCS 0	1	151	5755	6.09	18.62	30.00	2.88	Pass	deltagain=1
HT40	MCS 0	1	159	5795	6.09	19.21	30.00	2.88	Pass	deltagain=2

Report Number : FR431203

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

<5745 MHz ~ 5825 MHz>									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	26.07	42.24	14.25	0.5	Pass
11a	6Mbps	1	157	5785	27.17	43.46	16.45	0.5	Pass
11a	6Mbps	1	165	5825	27.97	44.38	15.40	0.5	Pass
HT20	MCS 0	1	149	5745	27.12	44.82	15.50	0.5	Pass
HT20	MCS 0	1	157	5785	28.27	45.02	17.10	0.5	Pass
HT20	MCS 0	1	165	5825	28.47	47.72	13.85	0.5	Pass
HT40	MCS 0	1	151	5755	37.26	93.80	35.28	0.5	Pass
HT40	MCS 0	1	159	5795	59.84	96.07	35.28	0.5	Pass

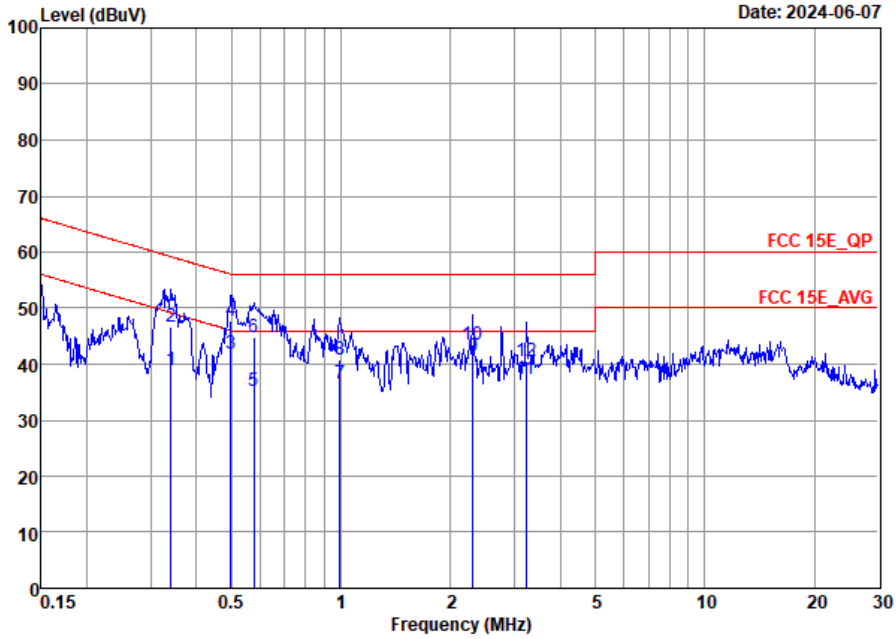
Report Number : FR431203

TEST RESULTS DATA
Power Spectral Density

<5745 MHz ~ 5825 MHz>										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	6.97	2.22	6.85	30.00	2.88	Pass
11a	6Mbps	1	157	5785	6.97	2.22	6.14	30.00	2.88	Pass
11a	6Mbps	1	165	5825	6.97	2.22	5.90	30.00	2.88	Pass
HT20	MCS 0	1	149	5745	6.92	2.22	5.46	30.00	2.88	Pass
HT20	MCS 0	1	157	5785	6.92	2.22	5.77	30.00	2.88	Pass
HT20	MCS 0	1	165	5825	6.92	2.22	5.63	30.00	2.88	Pass
HT40	MCS 0	1	151	5755	6.09	2.22	2.46	30.00	2.88	Pass
HT40	MCS 0	1	159	5795	6.09	2.22	2.69	30.00	2.88	Pass

Appendix B. AC Conducted Emission Test Results

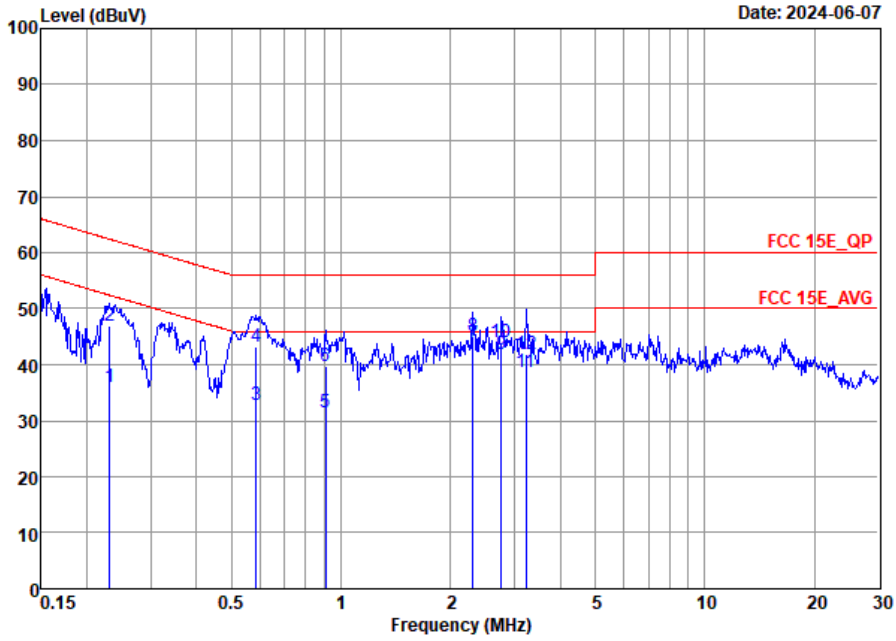
Test Engineer :	Yuki Tang	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15E_QP AC LISN 100063_L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.34	39.05	-10.13	49.18	18.69	10.20	10.16	Average
2		0.34	46.65	-12.53	59.18	26.29	10.20	10.16	QP
3	*	0.50	41.92	-4.13	46.05	21.50	10.26	10.16	Average
4		0.50	47.62	-8.43	56.05	27.20	10.26	10.16	QP
5		0.58	35.24	-10.76	46.00	14.90	10.18	10.16	Average
6		0.58	44.84	-11.16	56.00	24.50	10.18	10.16	QP
7		0.99	36.42	-9.58	46.00	16.00	10.26	10.16	Average
8		0.99	40.72	-15.28	56.00	20.30	10.26	10.16	QP
9		2.31	41.38	-4.62	46.00	20.70	10.43	10.25	Average
10		2.31	43.48	-12.52	56.00	22.80	10.43	10.25	QP
11		3.22	37.41	-8.59	46.00	17.01	10.11	10.29	Average
12		3.22	40.51	-15.49	56.00	20.11	10.11	10.29	QP

Test Engineer :	Yuki Tang	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15E_QP AC LISN 100063_N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.23	36.04	-16.35	52.39	15.70	10.19	10.15	Average
2		0.23	46.84	-15.55	62.39	26.50	10.19	10.15	QP
3		0.59	32.71	-13.29	46.00	12.40	10.15	10.16	Average
4		0.59	43.11	-12.89	56.00	22.80	10.15	10.16	QP
5		0.91	31.53	-14.47	46.00	11.00	10.37	10.16	Average
6		0.91	39.63	-16.37	56.00	19.10	10.37	10.16	QP
7	*	2.31	43.73	-2.27	46.00	23.20	10.28	10.25	Average
8		2.31	45.03	-10.97	56.00	24.50	10.28	10.25	QP
9		2.76	41.88	-4.12	46.00	21.31	10.30	10.27	Average
10		2.76	43.88	-12.12	56.00	23.31	10.30	10.27	QP
11		3.22	38.67	-7.33	46.00	17.90	10.48	10.29	Average
12		3.22	41.87	-14.13	56.00	21.10	10.48	10.29	QP

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 Test Data

Test Engineer :	Shiwei Wen	Relative Humidity :	48~49%
		Temperature :	24℃~25℃

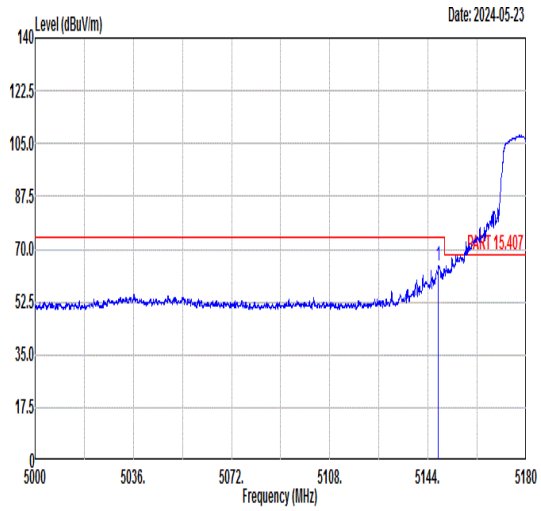
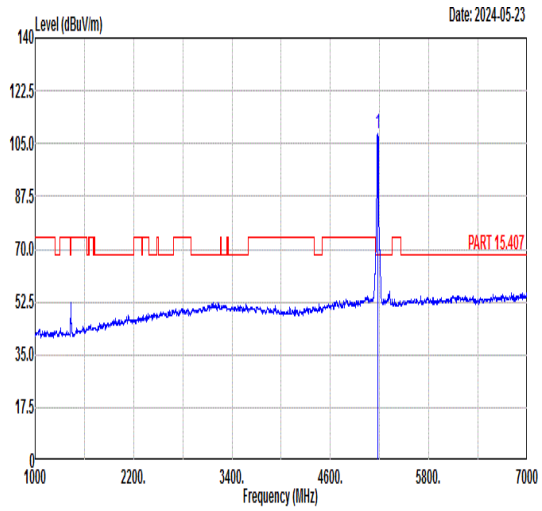
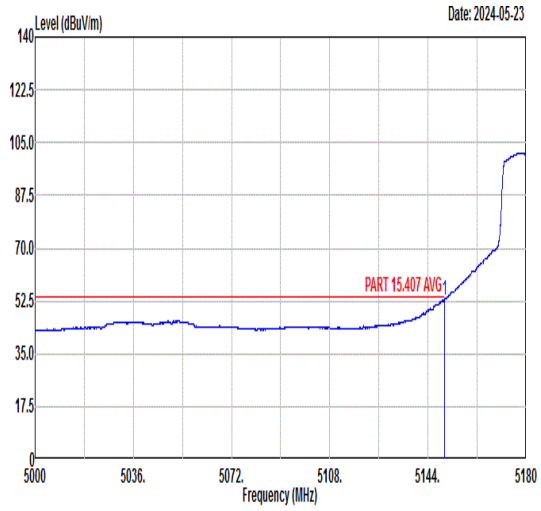
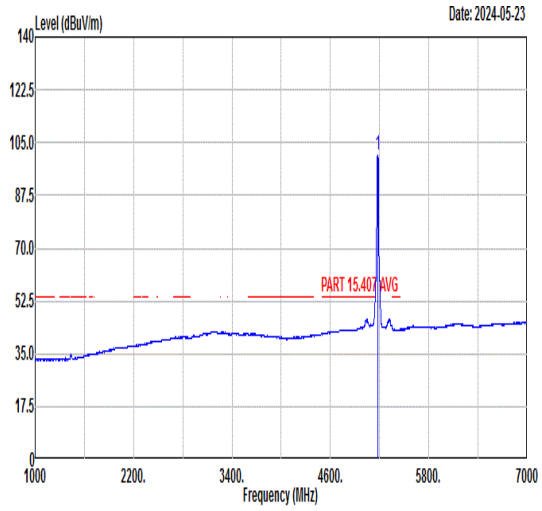
Radiated Spurious Emission Test Modes

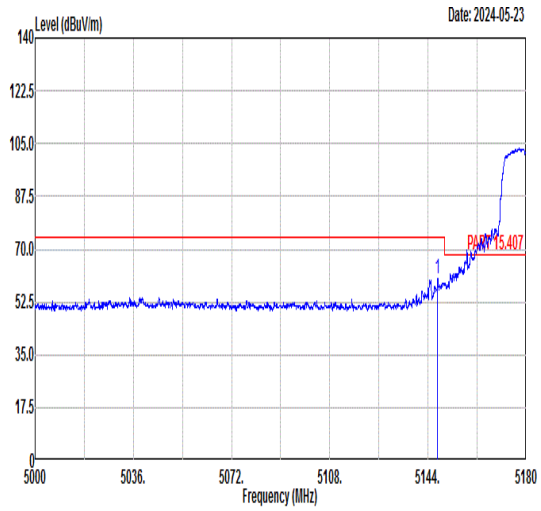
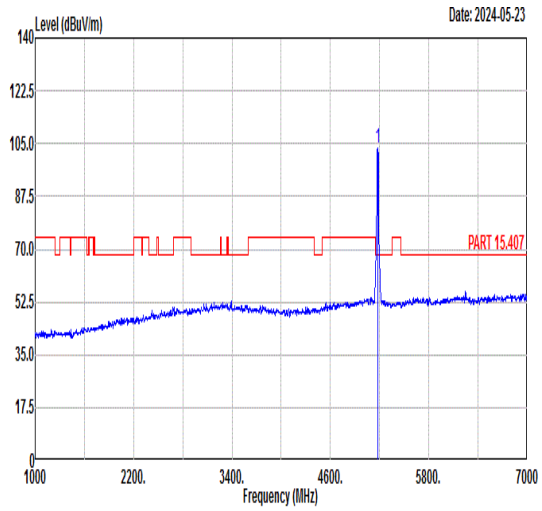
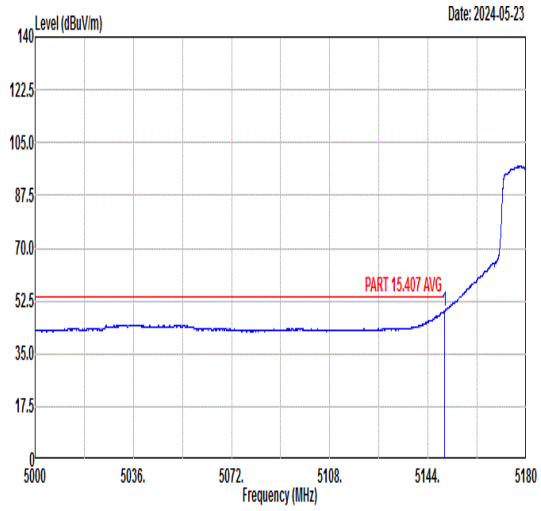
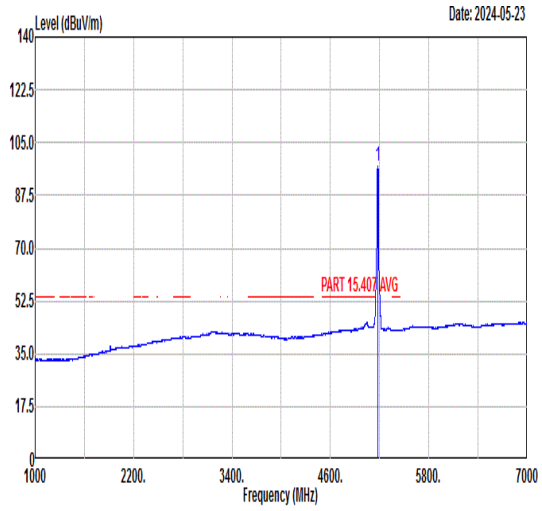
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	SISO	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	SISO	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	SISO	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-2A	5.25-5.35	SISO	802.11a	52	5280	6Mbps	-	-
Mode 5	U-NII-2A	5.25-5.35	SISO	802.11a	60	5300	6Mbps	-	-
Mode 6	U-NII-2A	5.25-5.35	SISO	802.11a	64	5320	6Mbps	-	-
Mode 7	U-NII-2C	5.47-5.725	SISO	802.11a	100	5500	6Mbps	-	-
Mode 8	U-NII-2C	5.47-5.725	SISO	802.11a	116	5580	6Mbps	-	-
Mode 9	U-NII-2C	5.47-5.725	SISO	802.11a	140	5700	6Mbps	-	-
Mode 10	U-NII-1	5.15-5.25	SISO	802.11n HT20	36	5180	MCS0	-	-
Mode 11	U-NII-1	5.15-5.25	SISO	802.11n HT20	44	5220	MCS0	-	-
Mode 12	U-NII-1	5.15-5.25	SISO	802.11n HT20	48	5240	MCS0	-	-
Mode 13	U-NII-2A	5.25-5.35	SISO	802.11n HT20	52	5280	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	SISO	802.11n HT20	60	5300	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	SISO	802.11n HT20	64	5320	MCS0	-	-
Mode 16	U-NII-2C	5.47-5.725	SISO	802.11n HT20	100	5500	MCS0	-	-
Mode 17	U-NII-2C	5.47-5.725	SISO	802.11n HT20	116	5580	MCS0	-	-
Mode 18	U-NII-2C	5.47-5.725	SISO	802.11n HT20	140	5700	MCS0	-	-
Mode 19	U-NII-1	5.15-5.25	SISO	802.11n HT40	38	5190	MCS0	-	-
Mode 20	U-NII-1	5.15-5.25	SISO	802.11n HT40	46	5230	MCS0	-	-
Mode 21	U-NII-2A	5.25-5.35	SISO	802.11n HT40	54	5270	MCS0	-	-
Mode 22	U-NII-2A	5.25-5.35	SISO	802.11n HT40	62	5310	MCS0	-	-
Mode 23	U-NII-2C	5.47-5.725	SISO	802.11n HT40	102	5510	MCS0	-	-
Mode 24	U-NII-2C	5.47-5.725	SISO	802.11n HT40	134	5670	MCS0	-	-
Mode 25	U-NII-3	5.725-5.85	SISO	802.11a	149	5745	6Mbps	-	-
Mode 26	U-NII-3	5.725-5.85	SISO	802.11a	157	5785	6Mbps	-	-
Mode 27	U-NII-3	5.725-5.85	SISO	802.11a	165	5825	6Mbps	-	-
Mode 28	U-NII-3	5.725-5.85	SISO	802.11n HT20	149	5745	MCS0	-	-
Mode 29	U-NII-3	5.725-5.85	SISO	802.11n HT20	157	5785	MCS0	-	-
Mode 30	U-NII-3	5.725-5.85	SISO	802.11n HT20	165	5825	MCS0	-	-
Mode 31	U-NII-3	5.725-5.85	SISO	802.11n HT40	151	5755	MCS0	-	-
Mode 32	U-NII-3	5.725-5.85	SISO	802.11n HT40	159	5795	MCS0	-	-
Mode 33	U-NII-2C	5.47-5.725	SISO	802.11n HT40 LF	102	5510	MCS0	-	LF
Mode 34	U-NII-3	5.725-5.85	SISO	802.11a LF	149	5745	6Mbps	-	LF
Mode 35	U-NII-1	5.15-5.25	SISO	802.11a	40	5200	6Mbps	-	-
Mode 36	U-NII-1	5.15-5.25	SISO	802.11a	136	5680	6Mbps	-	-
Mode 37	U-NII-1	5.15-5.25	SISO	802.11n HT20	40	5200	MCS0	-	-
Mode 38	U-NII-2C	5.47-5.725	SISO	802.11n HT20	136	5680	MCS0	-	-
Mode 39	U-NII-2C	5.47-5.725	SISO	802.11n HT40	110	5550	MCS0	-	-
Mode 40	U-NII-2C	5.47-5.725	SISO	802.11n HT40	126	5630	MCS0	-	-

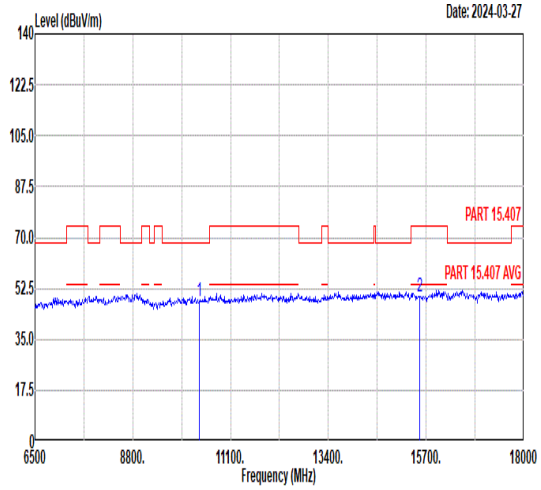
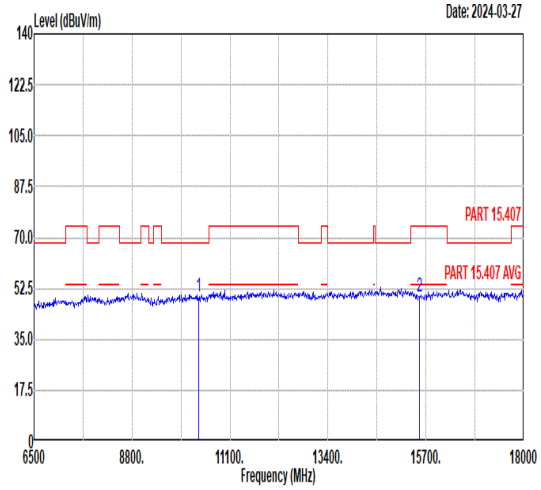
Summary of each worse mode

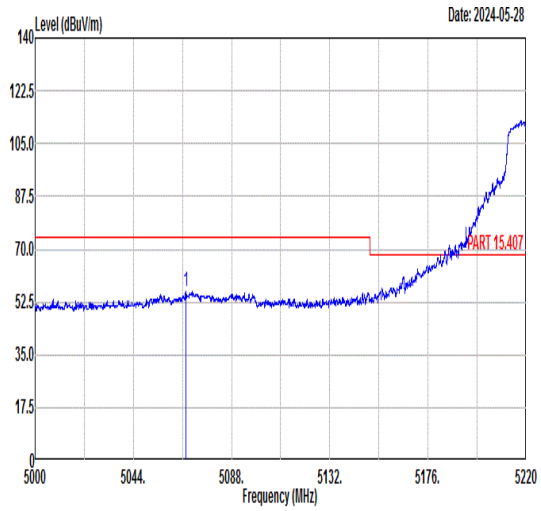
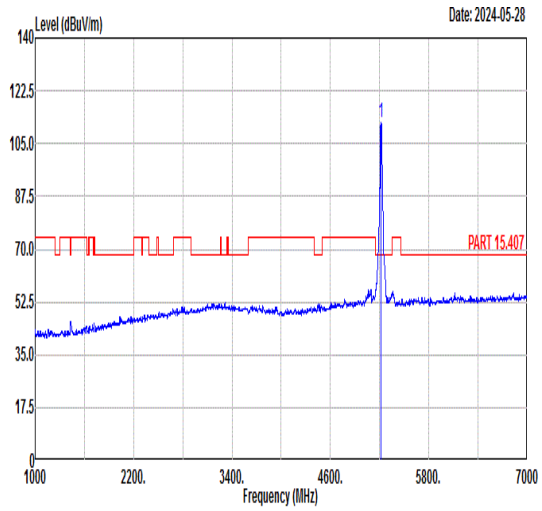
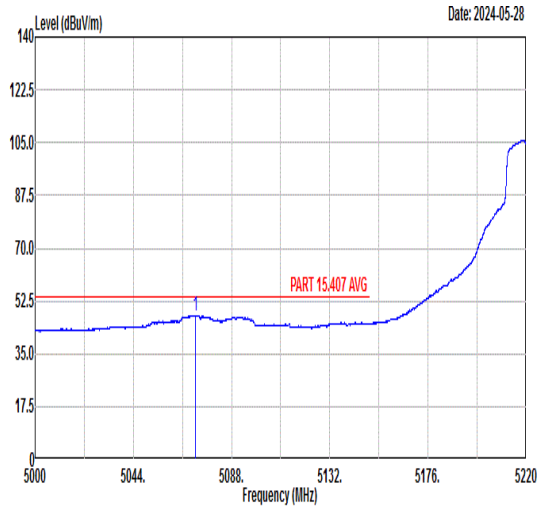
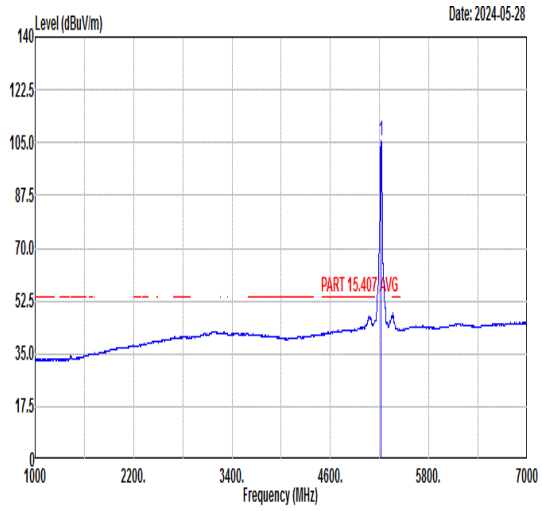
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.99	52.95	54.00	-1.05	H	AVERAGE	Pass	Band Edge
1	802.11a	36	10360.00	49.56	68.30	-18.74	V	Peak	Pass	Harmonic
2	802.11a	44	5367.50	48.04	54.00	-5.96	H	AVERAGE	Pass	Band Edge
2	802.11a	44	10440.00	49.89	68.30	-18.41	V	Peak	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
3	802.11a	48	10480.00	48.85	68.30	-19.45	V	Peak	Pass	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	Band Edge
4	802.11a	52	10520.00	49.75	68.30	-18.55	V	Peak	Pass	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	Band Edge
5	802.11a	60	15900.00	49.88	74.00	-24.12	V	Peak	Pass	Harmonic
6	802.11a	64	5350.00	53.00	54.00	-1.00	H	AVERAGE	Pass	Band Edge
6	802.11a	64	10640.00	50.89	74.00	-23.11	H	Peak	Pass	Harmonic
7	802.11a	100	5469.93	67.46	68.30	-0.84	H	PEAK	Pass	Band Edge
7	802.11a	100	11000.00	47.44	54.00	-6.56	H	Average	Pass	Harmonic
8	802.11a	116	5452.26	48.62	54.00	-5.38	H	AVERAGE	Pass	Band Edge
8	802.11a	116	11160.00	49.83	54.00	-4.17	H	Average	Pass	Harmonic
9	802.11a	140	5726.62	65.44	68.30	-2.86	H	PEAK	Pass	Band Edge
9	802.11a	140	11400.00	52.74	54.00	-1.26	V	Average	Pass	Harmonic
10	802.11n HT20	36	5149.96	53.37	54.00	-0.63	H	AVERAGE	Pass	Band Edge
10	802.11n HT20	36	10360.00	49.49	68.30	-18.81	H	Peak	Pass	Harmonic
11	802.11n HT20	44	5092.31	48.65	54.00	-5.35	H	AVERAGE	Pass	Band Edge
11	802.11n HT20	44	10440.00	50.11	68.30	-18.19	H	Peak	Pass	Harmonic
12	802.11n HT20	48	-	-	-	-	-	-	-	Band Edge
12	802.11n HT20	48	10480.00	49.29	68.30	-19.01	H	Peak	Pass	Harmonic
13	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
13	802.11n HT20	52	10520.00	50.97	68.30	-17.33	V	Peak	Pass	Harmonic
14	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
14	802.11n HT20	60	10600.00	50.80	74.00	-23.20	H	Peak	Pass	Harmonic
15	802.11n HT20	64	5350.00	52.19	54.00	-1.81	H	AVERAGE	Pass	Band Edge
15	802.11n HT20	64	15960.00	50.78	74.00	-23.22	H	Peak	Pass	Harmonic
16	802.11n HT20	100	5464.68	67.74	68.30	-0.56	H	PEAK	Pass	Band Edge
16	802.11n HT20	100	11000.00	48.01	54.00	-5.99	H	Average	Pass	Harmonic
17	802.11n HT20	116	5442.32	50.64	54.00	-3.36	H	AVERAGE	Pass	Band Edge
17	802.11n HT20	116	11160.00	52.27	54.00	-1.73	H	Average	Pass	Harmonic
18	802.11n HT20	140	5725.26	66.71	68.30	-1.59	H	PEAK	Pass	Band Edge
18	802.11n HT20	140	11400.00	47.71	54.00	-6.29	H	Average	Pass	Harmonic
19	802.11n HT40	38	5149.83	53.42	54.00	-0.58	H	AVERAGE	Pass	Band Edge
19	802.11n HT40	38	-	-	-	-	-	-	-	Harmonic
20	802.11n HT40	46	5148.93	50.65	54.00	-3.35	H	AVERAGE	Pass	Band Edge
20	802.11n HT40	46	-	-	-	-	-	-	-	Harmonic
21	802.11n HT40	54	5350.29	50.37	54.00	-3.63	H	AVERAGE	Pass	Band Edge
21	802.11n HT40	54	-	-	-	-	-	-	-	Harmonic
22	802.11n HT40	62	5350.59	52.97	54.00	-1.03	H	AVERAGE	Pass	Band Edge
22	802.11n HT40	62	-	-	-	-	-	-	-	Harmonic

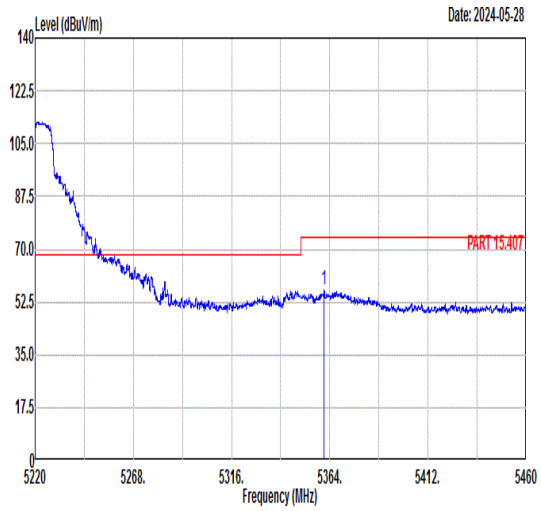
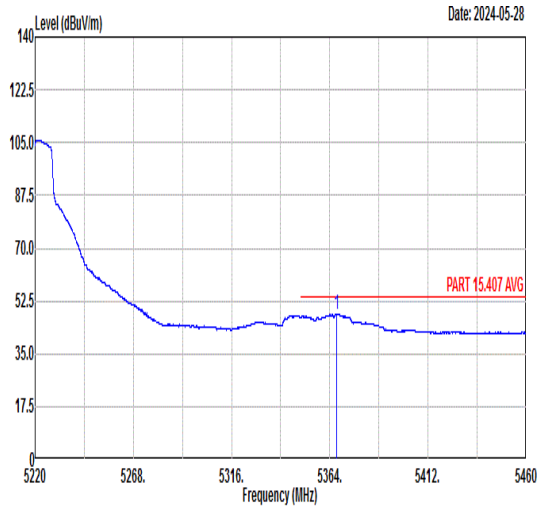
23	802.11n HT40	102	5469.60	67.77	68.30	-0.53	H	PEAK	Pass	Band Edge
23	802.11n HT40	102	11020.00	46.52	54.00	-7.48	H	Average	Pass	Harmonic
24	802.11n HT40	134	5729.53	65.72	68.30	-2.58	H	PEAK	Pass	Band Edge
24	802.11n HT40	134	-	-	-	-	-	-	-	Harmonic
25	802.11a	149	-	-	-	-	-	-	-	Band Edge
25	802.11a	149	11490.00	53.29	54.00	-0.71	V	Average	Pass	Harmonic
26	802.11a	157	-	-	-	-	-	-	-	Band Edge
26	802.11a	157	11570.00	53.16	54.00	-0.84	V	Average	Pass	Harmonic
27	802.11a	165	-	-	-	-	-	-	-	Band Edge
27	802.11a	165	11650.00	52.91	54.00	-1.09	H	Average	Pass	Harmonic
28	802.11n HT20	149	5646.26	55.81	68.30	-12.49	V	PEAK	Pass	Band Edge
28	802.11n HT20	149	11490.00	52.87	54.00	-1.13	V	Average	Pass	Harmonic
29	802.11n HT20	157	-	-	-	-	-	-	-	Band Edge
29	802.11n HT20	157	11570.00	52.14	54.00	-1.86	V	Average	Pass	Harmonic
30	802.11n HT20	165	5944.88	52.86	68.30	-15.44	H	PEAK	Pass	Band Edge
30	802.11n HT20	165	11650.00	52.63	54.00	-1.37	H	Average	Pass	Harmonic
31	802.11n HT40	151	5651.15	66.28	69.15	-2.87	V	PEAK	Pass	Band Edge
31	802.11n HT40	151	-	-	-	-	-	-	-	Harmonic
32	802.11n HT40	159	5641.24	62.88	68.30	-5.42	V	PEAK	Pass	Band Edge
32	802.11n HT40	159	-	-	-	-	-	-	-	Harmonic
33	802.11n HT40 LF	102	480.08	38.9	46	-7.1	H	PEAK	Pass	LF
34	802.11a LF	149	480.08	38.15	46	-7.85	H	PEAK	Pass	LF
35	802.11a	40	5149.30	49.73	54.00	-4.27	H	AVERAGE	Pass	Band Edge
35	802.11a	40	-	-	-	-	-	-	-	Harmonic
36	802.11a	136	5727.48	67.24	68.30	-1.06	H	PEAK	Pass	Band Edge
36	802.11a	136	-	-	-	-	-	-	-	Harmonic
37	802.11n HT20	40	5150.00	50.43	54.00	-3.57	H	AVERAGE	Pass	Band Edge
37	802.11n HT20	40	-	-	-	-	-	-	-	Harmonic
38	802.11n HT20	136	5726.28	66.54	68.30	-1.76	H	PEAK	Pass	Band Edge
38	802.11n HT20	136	-	-	-	-	-	-	-	Harmonic
39	802.11n HT40	110	5458.72	53.09	54.00	-0.91	H	AVERAGE	Pass	Band Edge
39	802.11n HT40	110	-	-	-	-	-	-	-	Harmonic
40	802.11n HT40	126	5729.31	61.21	68.30	-7.09	H	PEAK	Pass	Band Edge
40	802.11n HT40	126	-	-	-	-	-	-	-	Harmonic

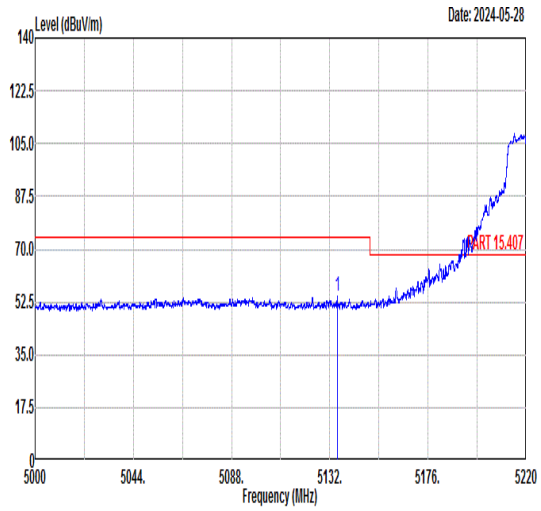
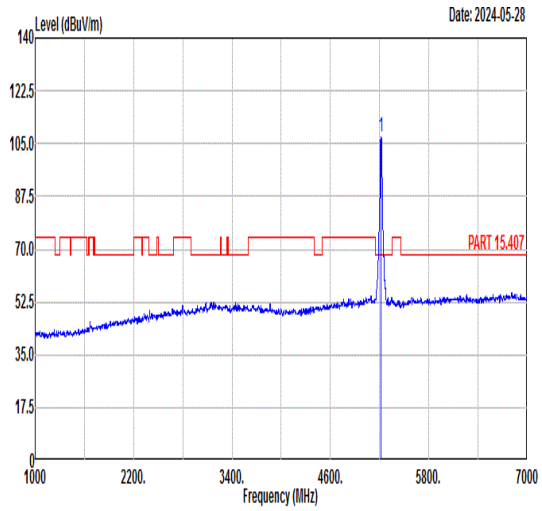
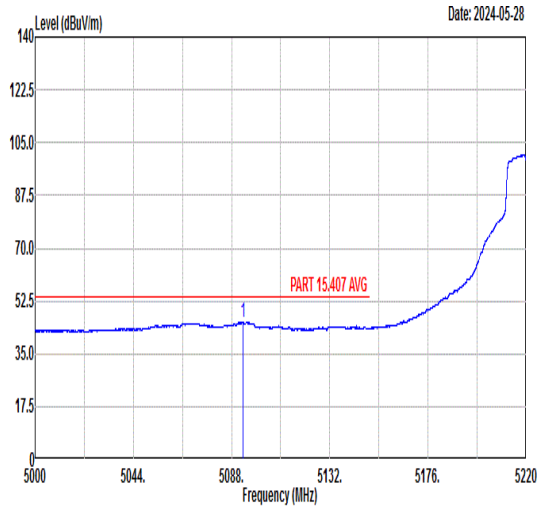
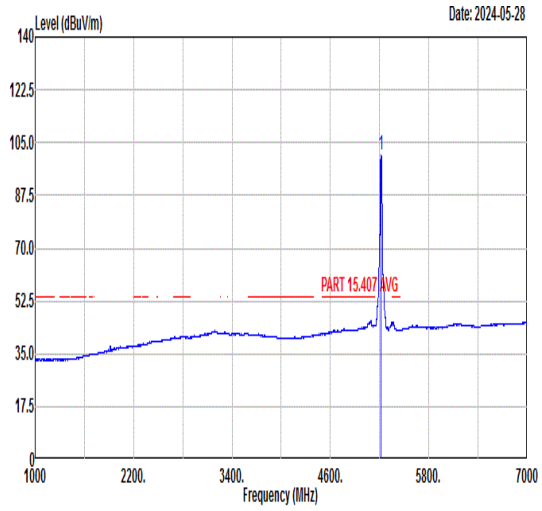
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.71 64.69 74.00 -9.31 50.51 34.87 11.09 31.78 208 59 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 108.31 ------ ------ 94.18 34.87 11.07 31.81 208 59 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.99 52.95 54.00 -1.05 38.78 34.87 11.08 31.78 208 59 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 101.09 ------ ------ 86.96 34.87 11.07 31.81 208 59 AVERAGE

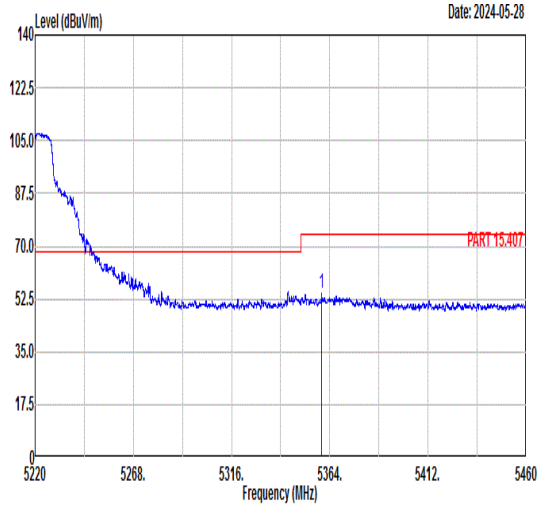
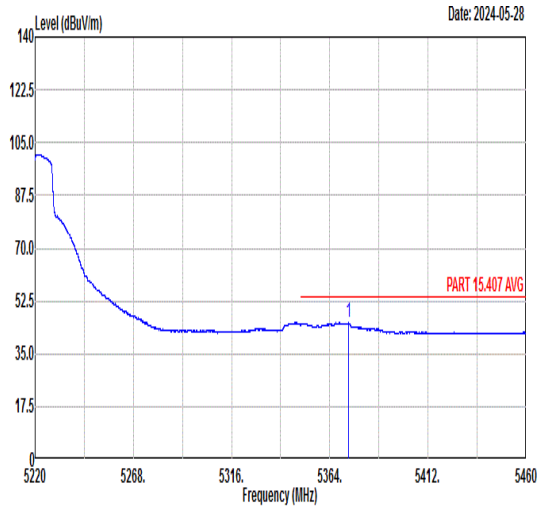
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.51 60.47 74.00 -13.53 46.29 34.87 11.09 31.78 236 166 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 103.33 ------ ------ 89.20 34.87 11.07 31.81 236 166 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.99 49.07 54.00 -4.93 34.90 34.87 11.08 31.78 236 166 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 96.96 ------ ------ 82.83 34.87 11.07 31.81 236 166 AVERAGE

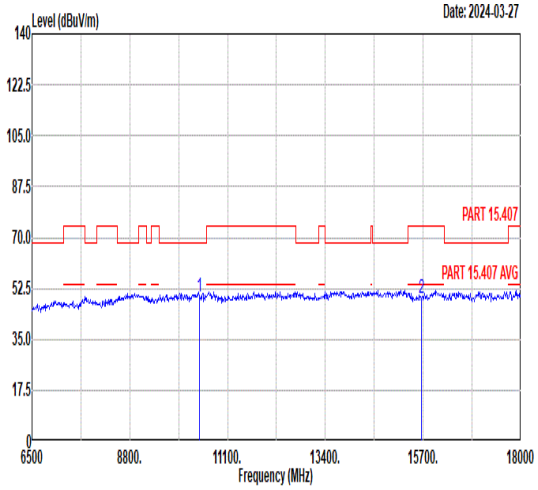
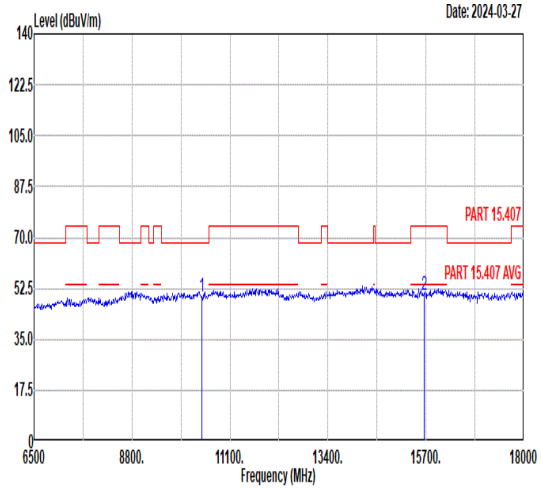
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 48.19 68.30 -20.11 45.37 39.44 14.15 50.77 -- -- Peak 2 15540.00 49.70 74.00 -24.30 42.46 41.82 16.85 51.43 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 49.56 68.30 -18.74 46.74 39.44 14.15 50.77 -- -- Peak 2 15540.00 49.61 74.00 -24.39 42.37 41.82 16.85 51.43 -- -- Peak

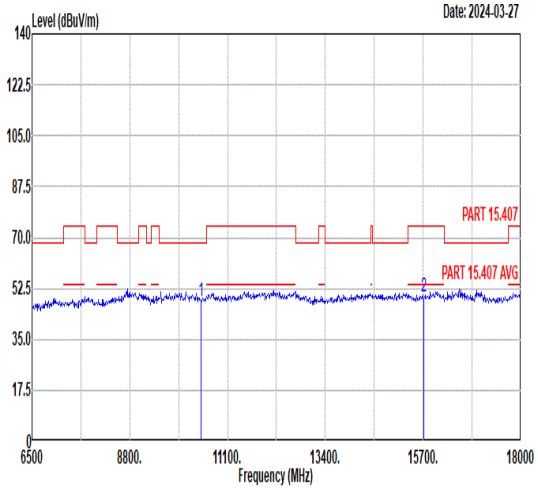
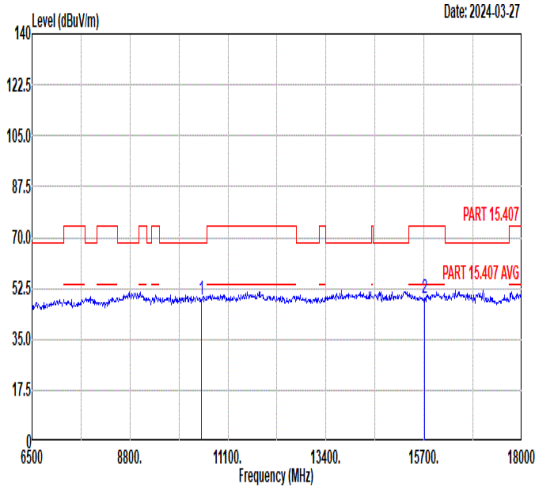
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5067.43 55.99 74.00 -18.01 41.65 34.89 11.13 31.68 217 62 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 111.83 ------ ------ 97.78 34.86 11.05 31.86 217 62 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5071.63 47.72 54.00 -6.28 33.38 34.89 11.13 31.68 217 62 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 105.43 ------ ------ 91.38 34.86 11.05 31.86 217 62 AVERAGE

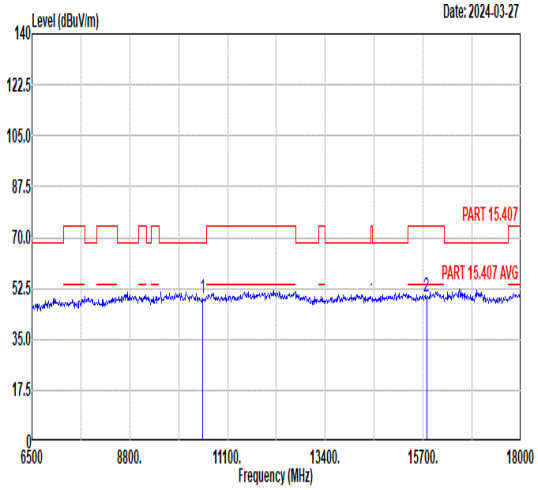
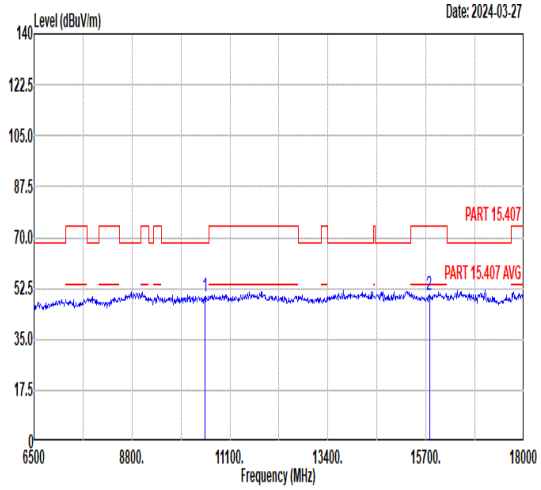
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5361.26 56.35 74.00 -17.65 42.62 34.83 10.94 32.04 217 62 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5367.50 48.04 54.00 -5.96 34.33 34.83 10.93 32.05 217 62 AVERAGE	Blank

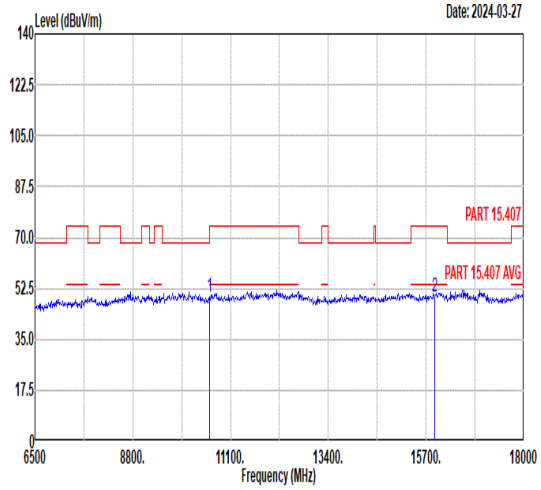
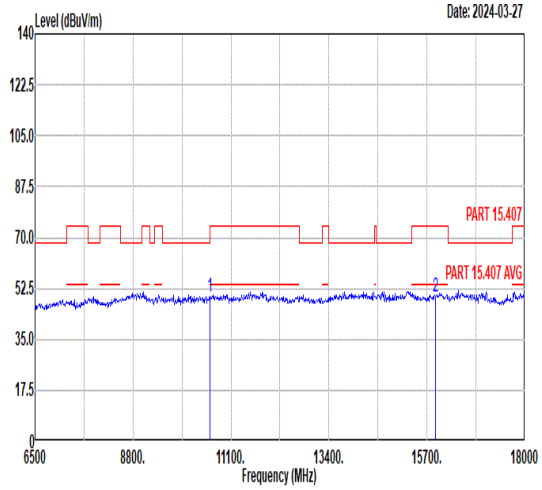
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5135.43 54.25 74.00 -19.75 40.05 34.87 11.09 31.76 234 174 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 107.00 ------ ------ 92.97 34.86 11.04 31.87 234 174 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5092.97 45.51 54.00 -8.49 31.22 34.88 11.12 31.71 234 174 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 100.73 ------ ------ 86.68 34.86 11.05 31.86 234 174 AVERAGE

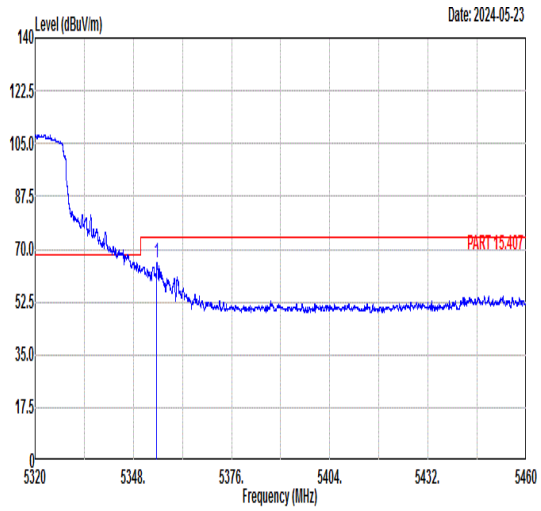
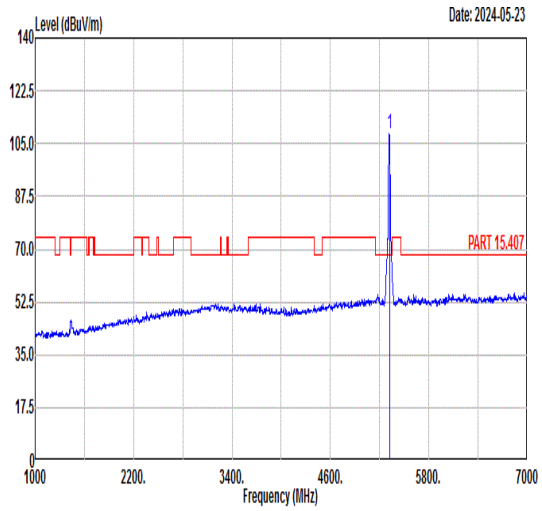
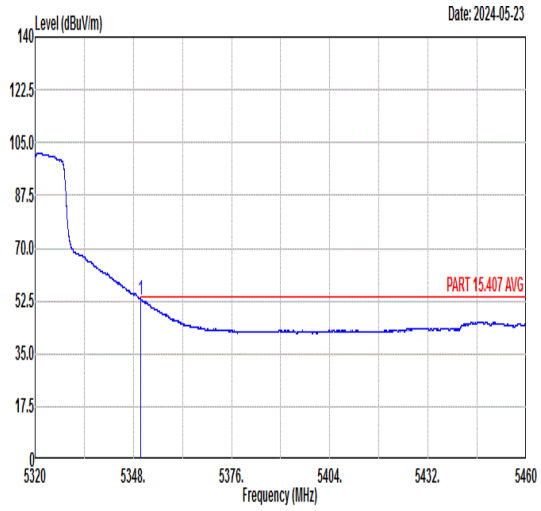
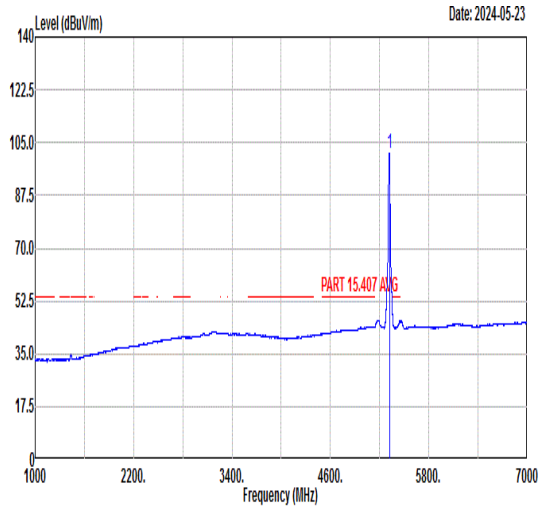
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5360.06 54.27 74.00 -19.73 40.54 34.83 10.94 32.04 234 174 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5373.26 45.34 54.00 -8.66 31.64 34.83 10.93 32.06 234 174 AVERAGE	Blank

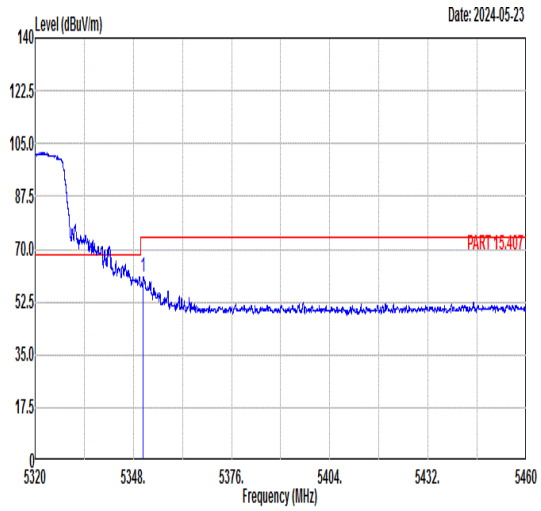
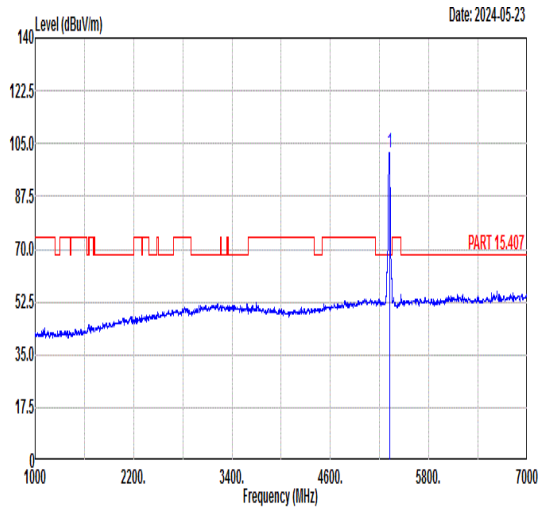
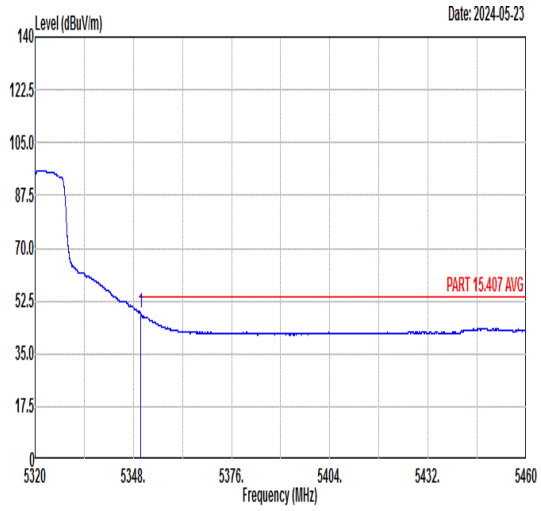
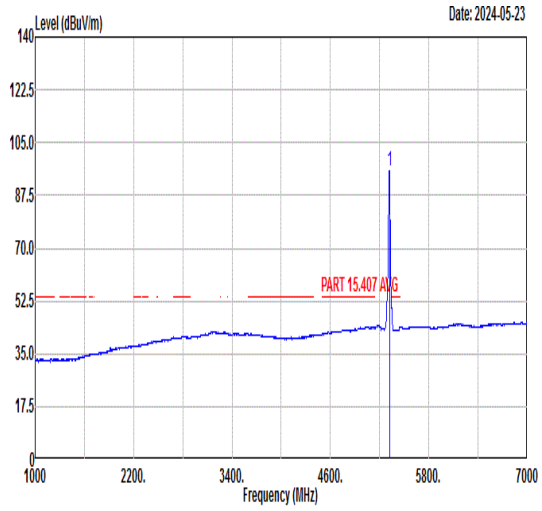
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.72 68.30 -18.58 46.83 39.48 14.20 50.79 -- -- Peak 2 15660.00 49.17 74.00 -24.83 41.86 41.90 16.94 51.53 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.89 68.30 -18.41 47.00 39.48 14.20 50.79 -- -- Peak 2 15660.00 50.31 74.00 -23.69 43.00 41.90 16.94 51.53 -- -- Peak

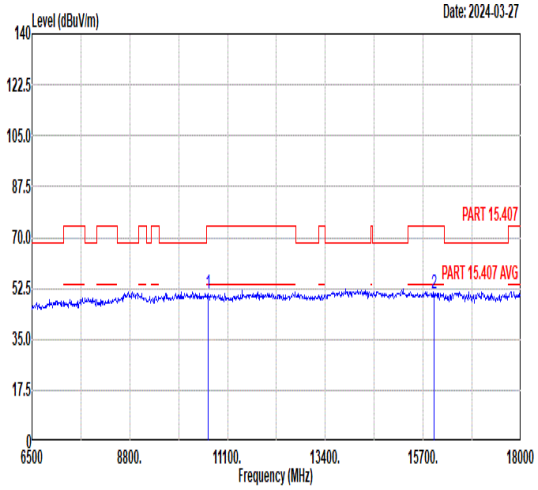
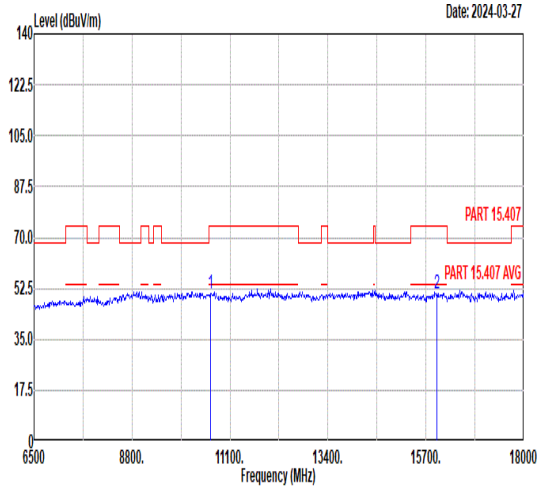
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.09 68.30 -20.21 45.17 39.49 14.23 50.80 -- -- Peak 2 15720.00 49.56 74.00 -24.44 42.22 41.93 16.99 51.58 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.85 68.30 -19.45 45.93 39.49 14.23 50.80 -- -- Peak 2 15720.00 49.14 74.00 -24.86 41.80 41.93 16.99 51.58 -- -- Peak

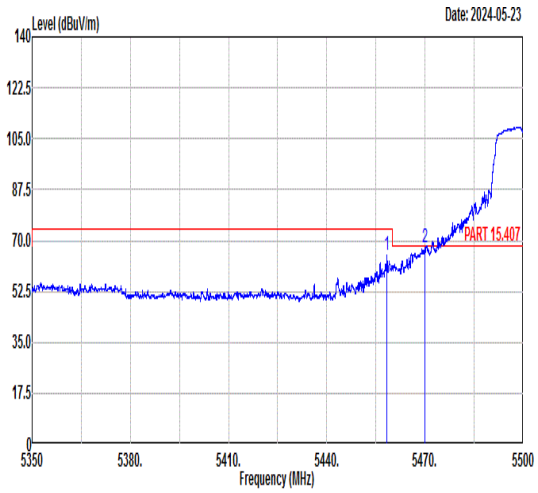
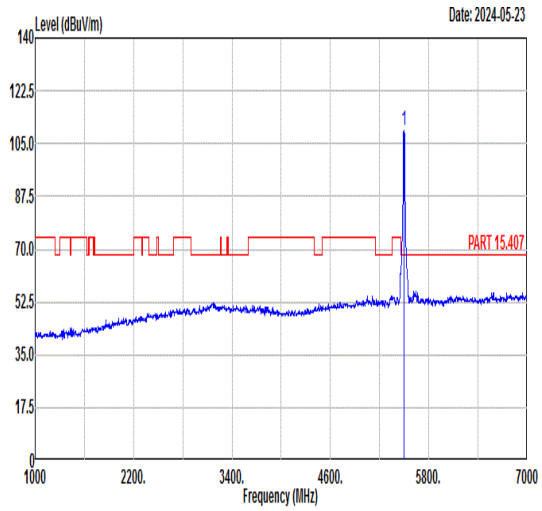
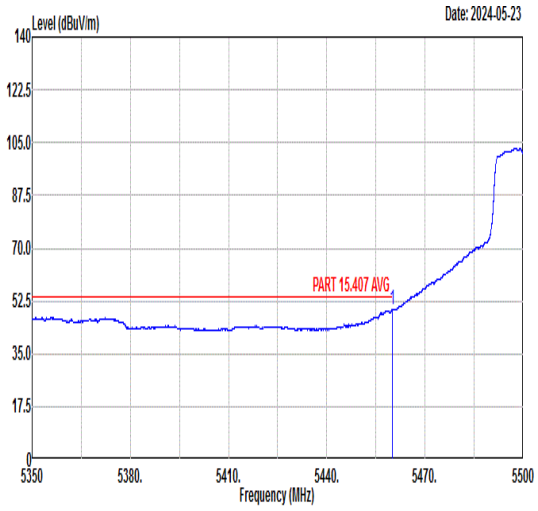
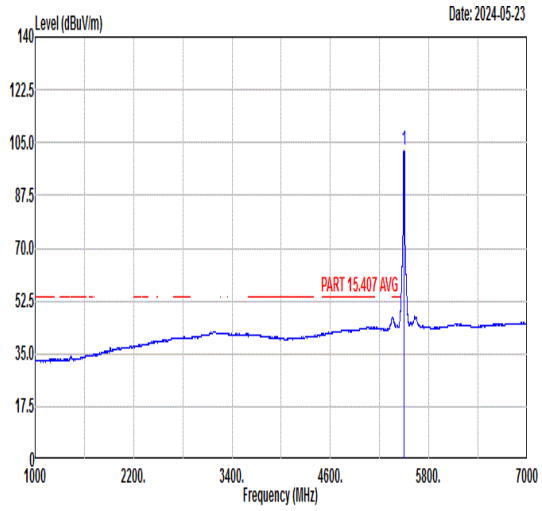
Mode	4	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5280MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 49.13 68.30 -19.17 46.18 39.50 14.25 50.80 -- -- Peak 2 15780.00 49.90 74.00 -24.10 42.52 41.97 17.04 51.63 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 49.75 68.30 -18.55 46.80 39.50 14.25 50.80 -- -- Peak 2 15780.00 50.11 74.00 -23.89 42.73 41.97 17.04 51.63 -- -- Peak

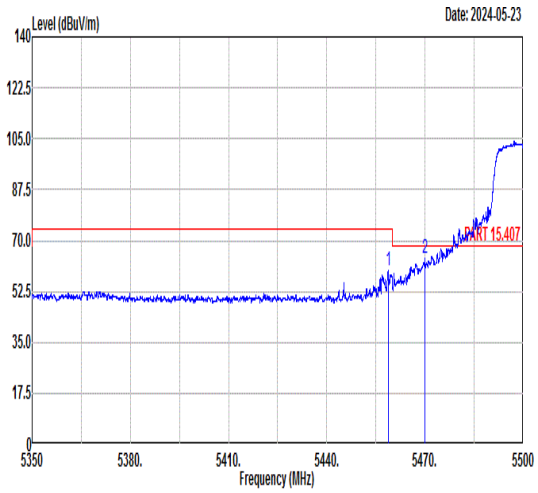
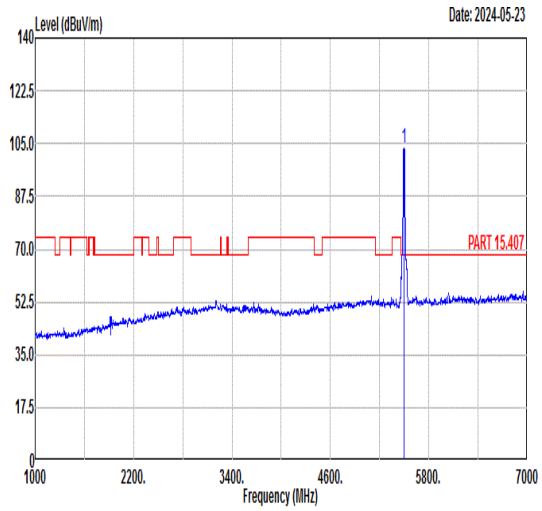
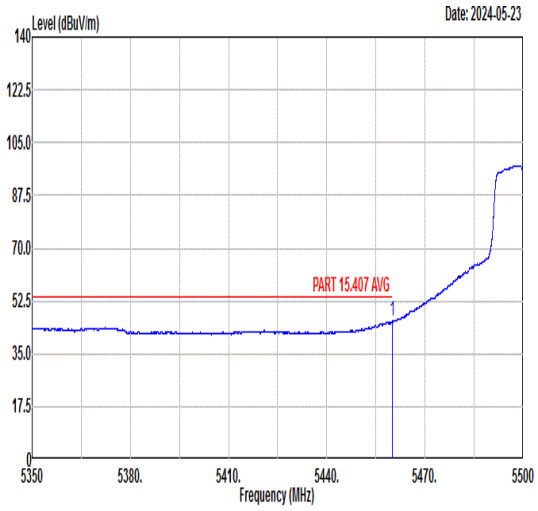
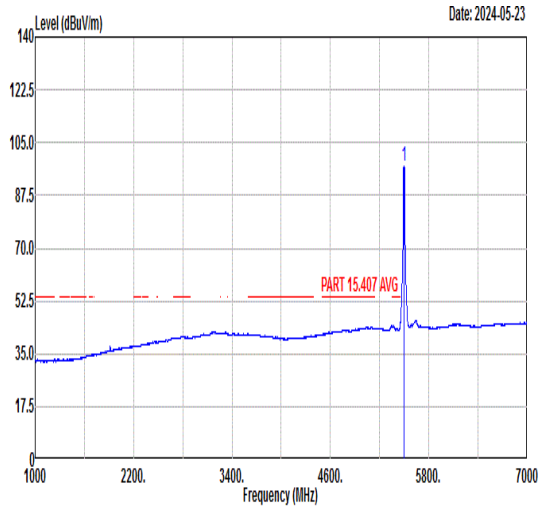
Mode	5	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 49.51 74.00 -24.49 46.53 39.48 14.30 50.80 -- -- Peak 2 15900.00 49.75 74.00 -24.25 42.29 42.04 17.14 51.72 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 49.49 74.00 -24.51 46.51 39.48 14.30 50.80 -- -- Peak 2 15900.00 49.88 74.00 -24.12 42.42 42.04 17.14 51.72 -- -- Peak

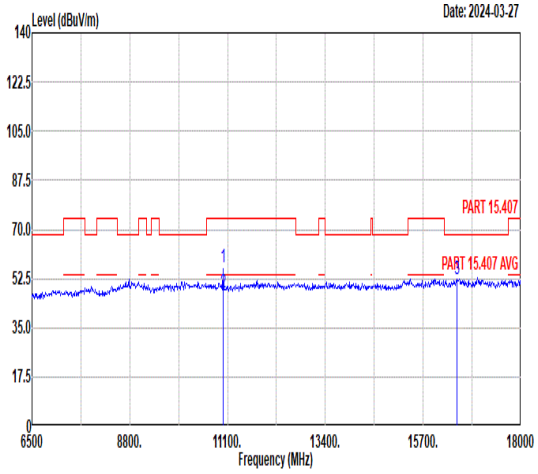
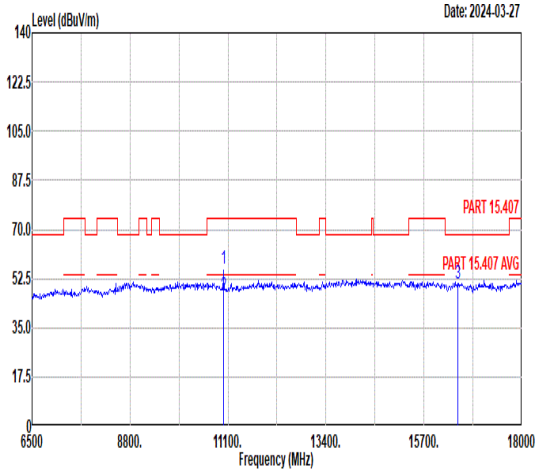
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5354.66 65.68 74.00 -8.32 51.94 34.83 10.94 32.03 209 60 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 108.23 ------ ------ 94.41 34.84 10.97 31.99 209 60 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.00 53.00 54.00 -1.00 39.26 34.83 10.94 32.03 209 60 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 101.66 ------ ------ 87.84 34.84 10.97 31.99 209 60 AVERAGE

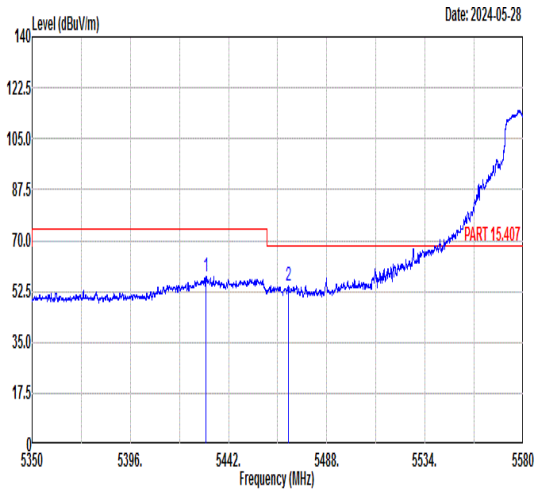
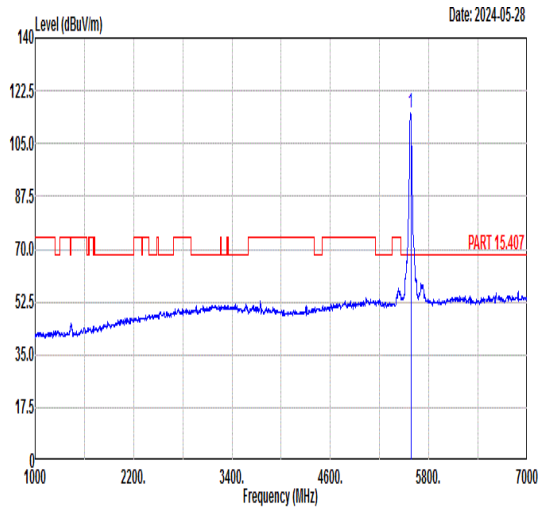
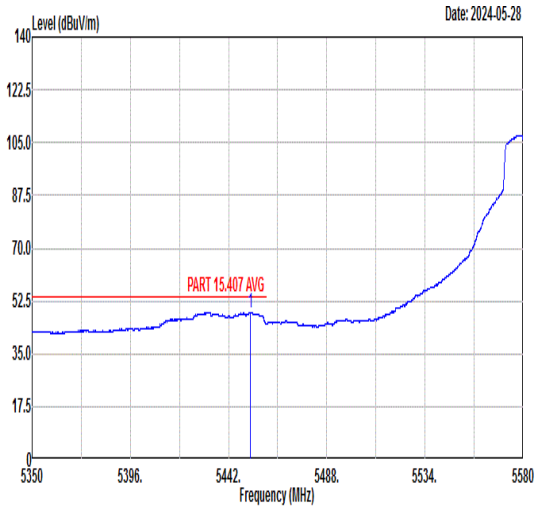
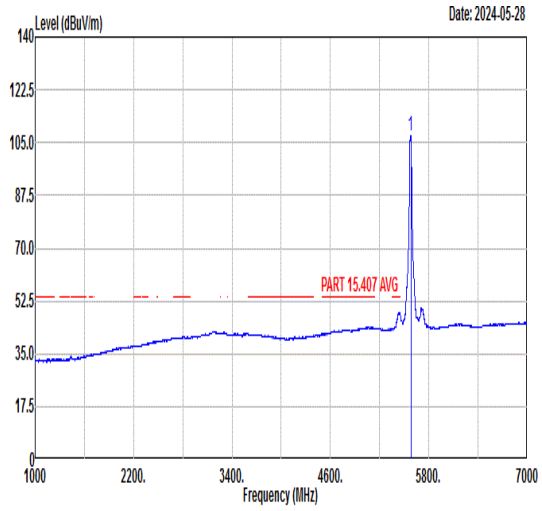
Mode	6	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.87 60.50 74.00 -13.50 46.76 34.83 10.94 32.03 229 167 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 102.20 ------ ------ 88.38 34.84 10.97 31.99 229 167 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.00 48.48 54.00 -5.52 34.74 34.83 10.94 32.03 229 167 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 95.75 ------ ------ 81.93 34.84 10.97 31.99 229 167 AVERAGE

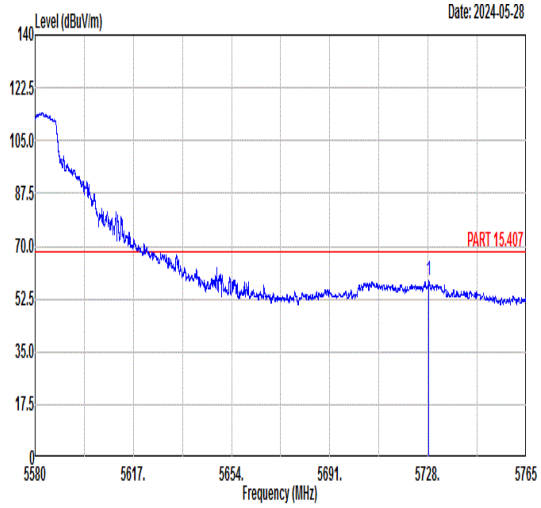
Mode	6	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 50.89 74.00 -23.11 47.90 39.47 14.32 50.80 -- -- Peak 2 15960.00 50.86 74.00 -23.14 43.36 42.08 17.19 51.77 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 50.61 74.00 -23.39 47.62 39.47 14.32 50.80 -- -- Peak 2 15960.00 50.69 74.00 -23.31 43.19 42.08 17.19 51.77 -- -- Peak

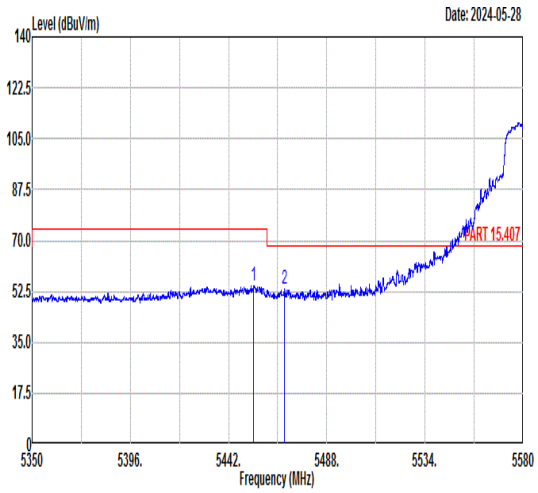
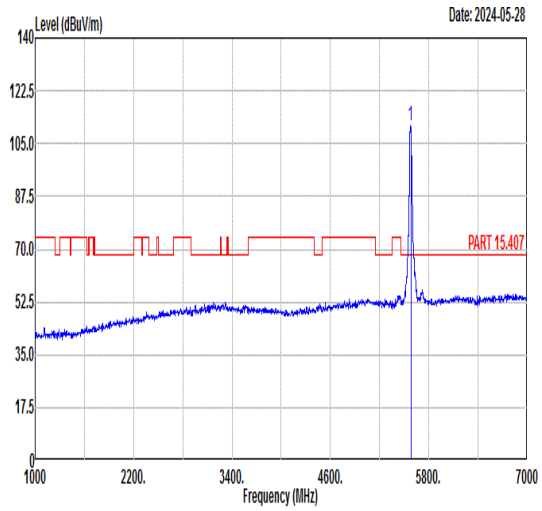
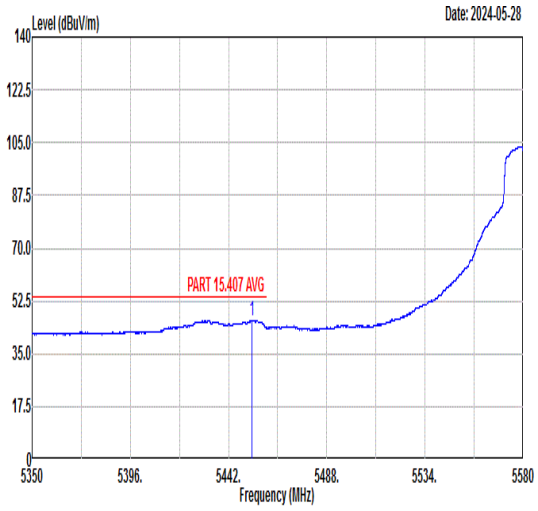
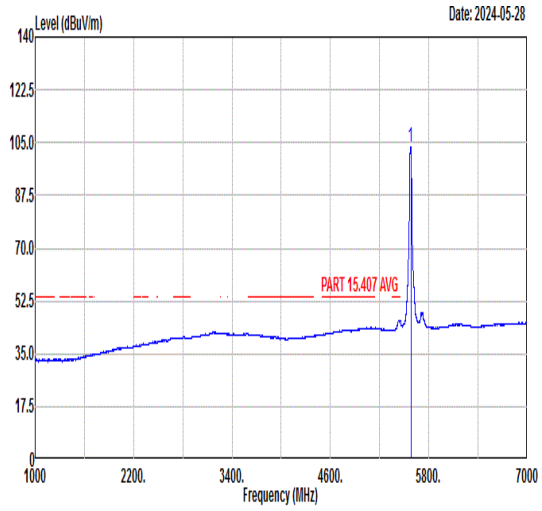
Mode	7	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5458.39 64.91 74.00 -9.09 51.15 34.81 11.11 32.16 211 62 PEAK 2 5469.93 67.46 68.30 -0.84 53.67 34.81 11.16 32.18 211 62 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 109.10 ------ ------ 95.24 34.80 11.27 32.21 211 62 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5460.00 49.71 54.00 -4.29 35.95 34.81 11.12 32.17 211 62 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 102.60 ------ ------ 88.74 34.80 11.27 32.21 211 62 AVERAGE

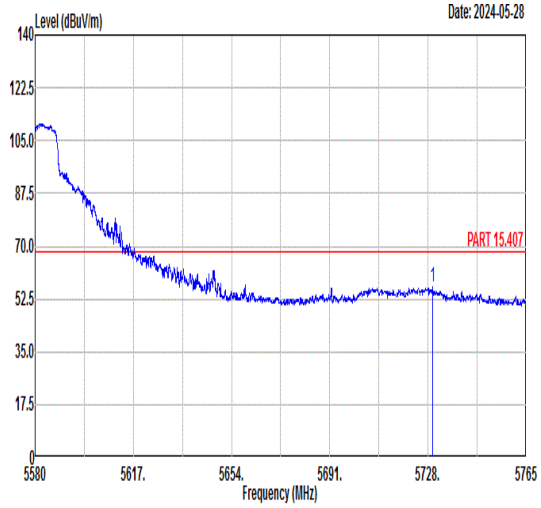
Mode	7	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5458.84 59.78 74.00 -14.22 46.01 34.81 11.12 32.16 228 168 PEAK 2 5469.93 64.14 68.30 -4.16 50.35 34.81 11.16 32.18 228 168 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 103.58 ------ ------ 89.72 34.80 11.27 32.21 228 168 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5460.00 45.90 54.00 -8.10 32.14 34.81 11.12 32.17 228 168 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 97.27 ------ ------ 83.41 34.80 11.27 32.21 228 168 AVERAGE

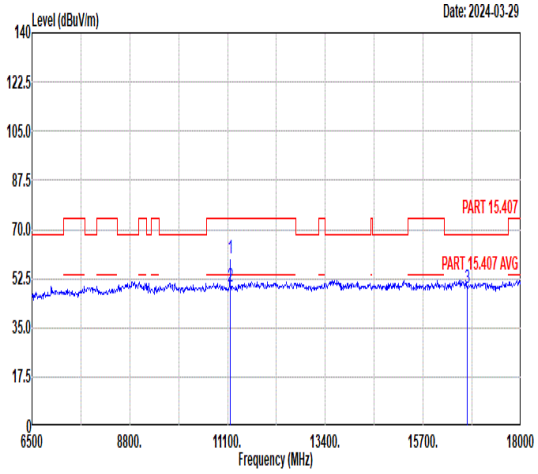
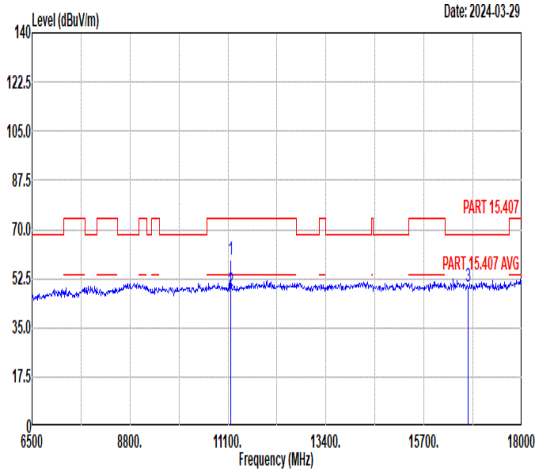
Mode	7	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 56.67 74.00 -17.33 53.53 39.40 14.54 50.80 138 360 Peak 2 11000.00 47.44 54.00 -6.56 44.30 39.40 14.54 50.80 138 360 Average 3 16500.00 52.23 68.30 -16.07 44.27 42.40 17.36 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 55.98 74.00 -18.02 52.84 39.40 14.54 50.80 130 256 Peak 2 11000.00 46.67 54.00 -7.33 43.53 39.40 14.54 50.80 130 256 Average 3 16500.00 50.94 68.30 -17.36 42.98 42.40 17.36 51.80 -- -- Peak

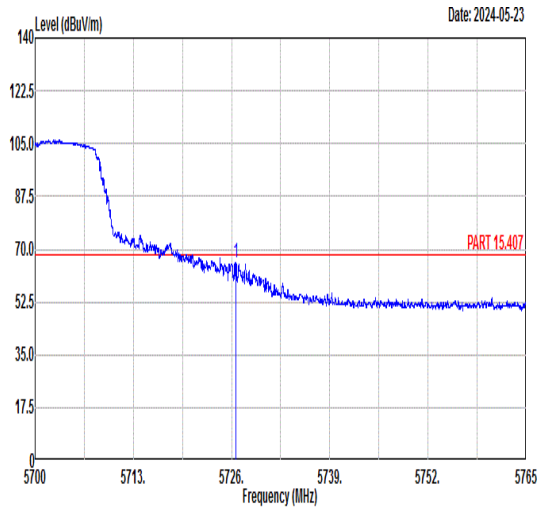
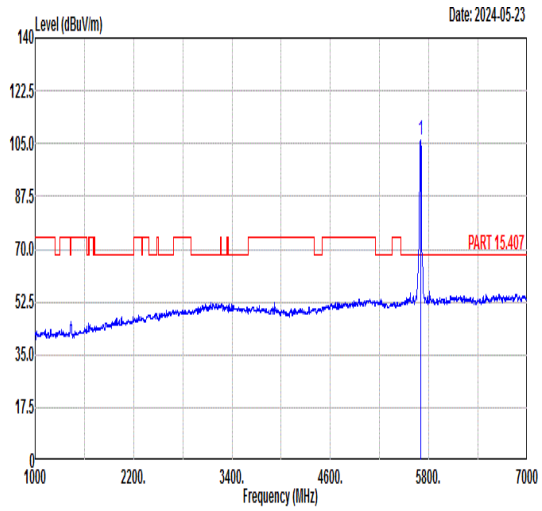
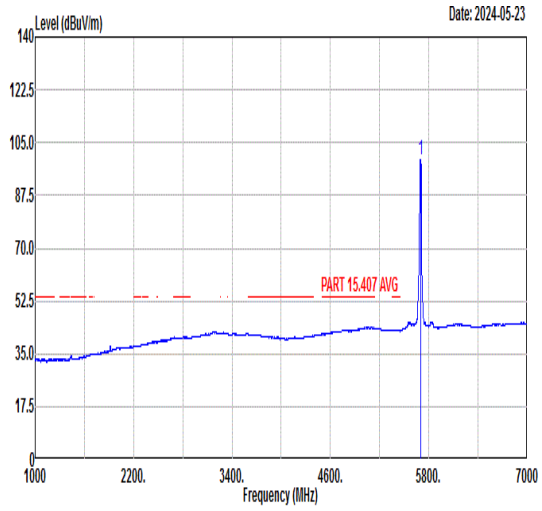
Mode	8	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5431.56 57.67 74.00 -16.33 43.99 34.81 11.00 32.13 203 66 PEAK 2 5469.97 54.52 68.30 -13.78 40.73 34.81 11.16 32.18 203 66 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 115.08 ------ ------ 100.84 34.91 11.60 32.27 203 66 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5452.26 48.62 54.00 -5.38 34.88 34.81 11.09 32.16 203 66 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 107.38 ------ ------ 93.12 34.91 11.62 32.27 203 66 AVERAGE

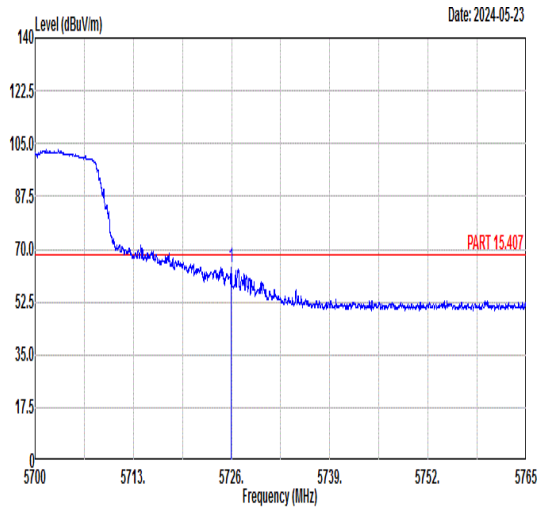
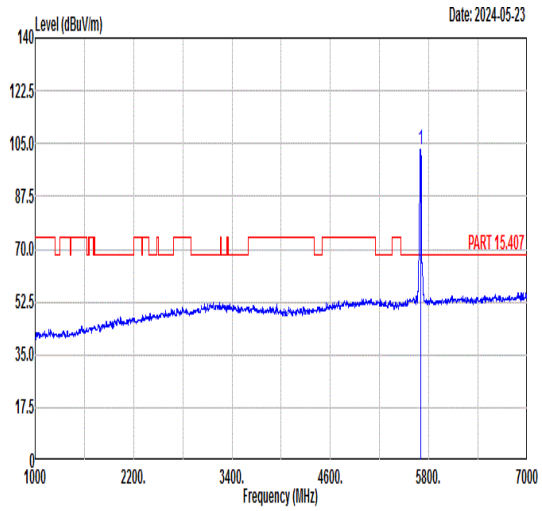
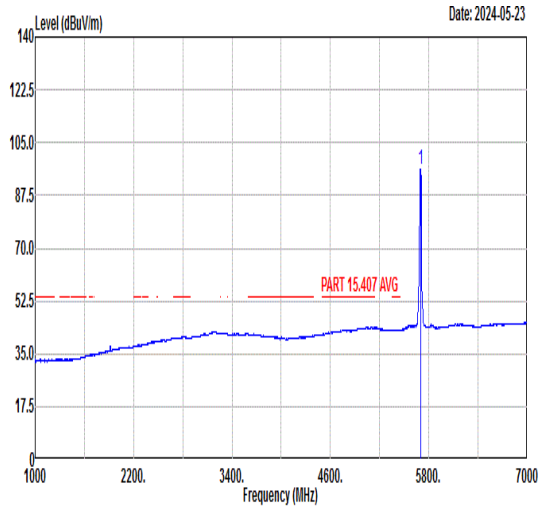
Mode	8	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5728.28 58.55 68.30 -9.75 44.17 35.12 11.65 32.39 203 66 PEAK	Blank

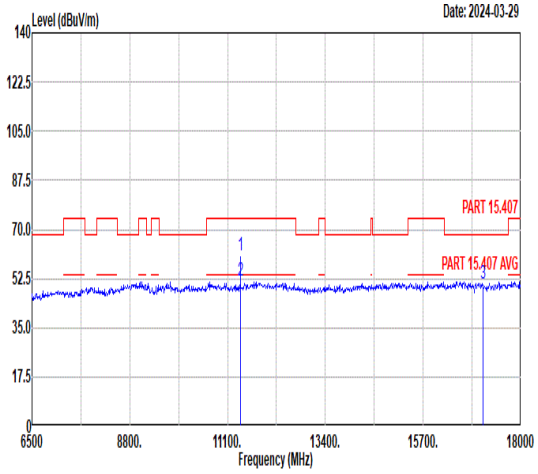
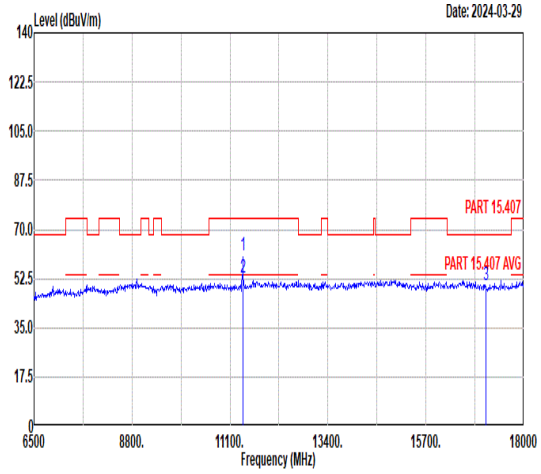
Mode	8	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5453.85 54.46 74.00 -19.54 40.72 34.81 11.09 32.16 215 177 PEAK 2 5468.13 53.25 68.30 -15.05 39.47 34.81 11.15 32.18 215 177 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 110.72 ------ ------ 96.48 34.91 11.60 32.27 215 177 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5452.93 46.05 54.00 -7.95 32.31 34.81 11.09 32.16 215 177 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 103.76 ------ ------ 89.50 34.91 11.62 32.27 215 177 AVERAGE

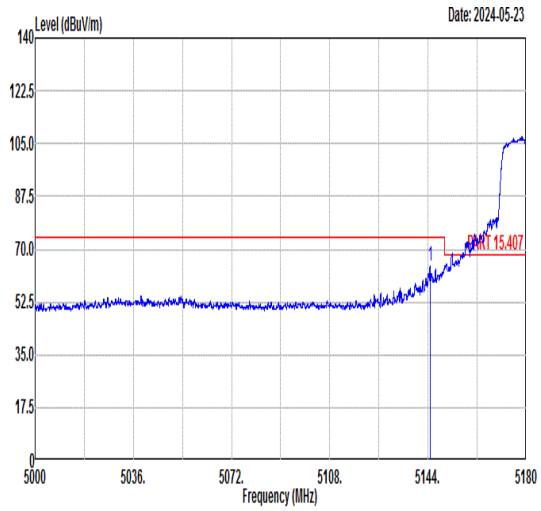
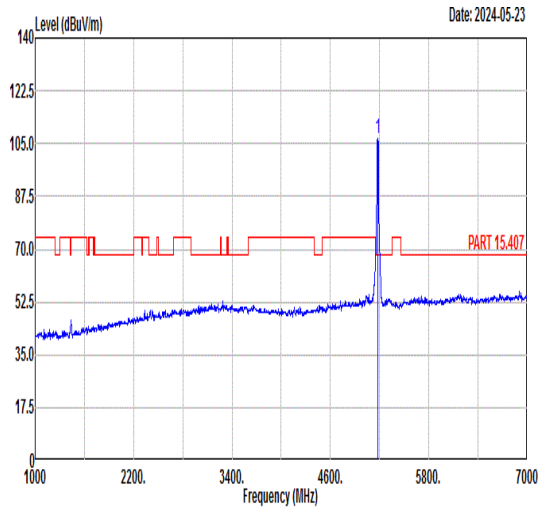
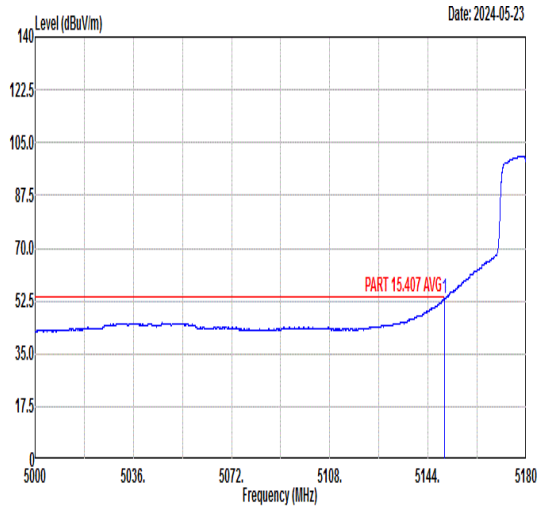
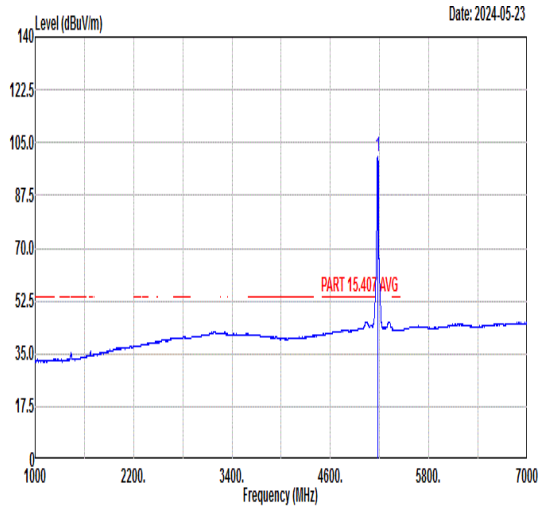
Mode	8	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5729.78 56.56 68.30 -11.74 42.18 35.12 11.65 32.39 215 177 PEAK	Blank

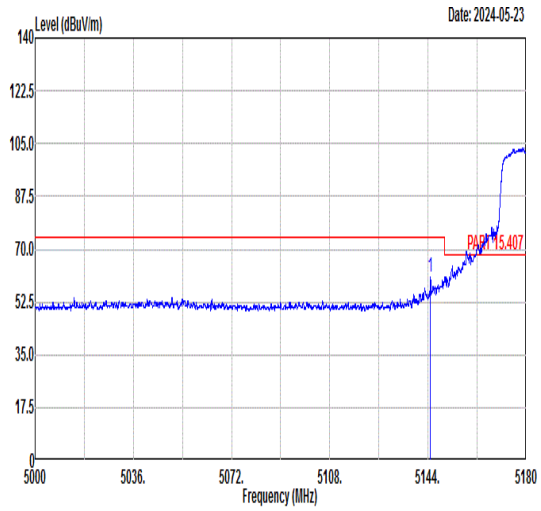
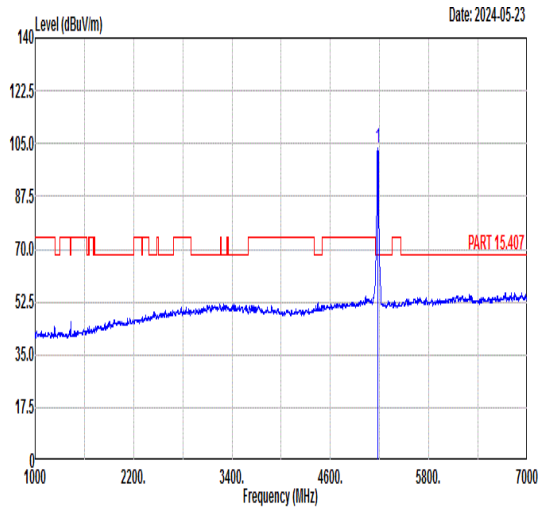
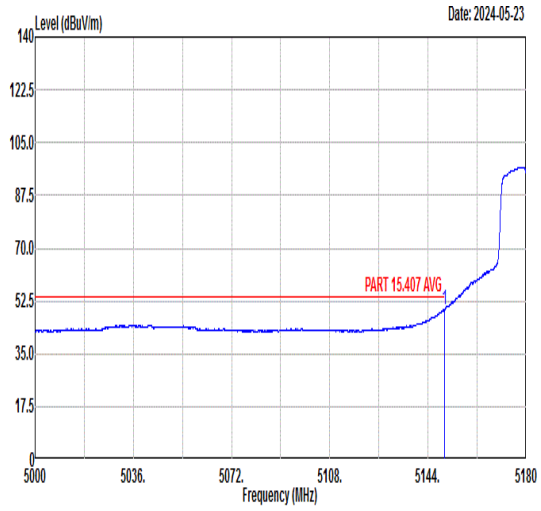
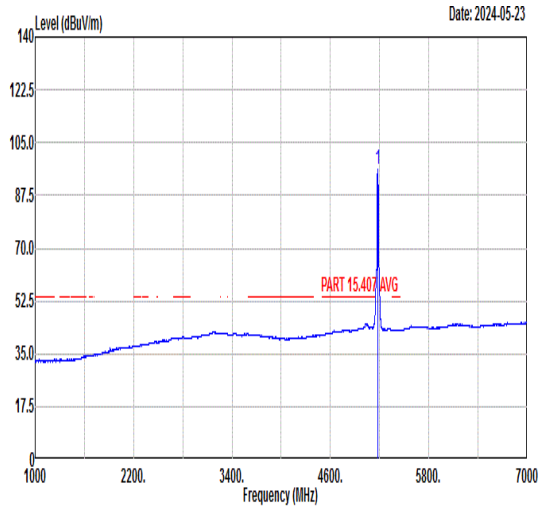
Mode	8	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 59.93 74.00 -14.07 56.53 39.53 14.64 50.77 105 65 Peak 2 11160.00 49.83 54.00 -4.17 46.43 39.53 14.64 50.77 105 65 Average 3 16740.00 49.18 68.30 -19.12 41.05 42.45 17.43 51.75 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 59.06 74.00 -14.94 55.66 39.53 14.64 50.77 105 171 Peak 2 11160.00 48.12 54.00 -5.88 44.72 39.53 14.64 50.77 105 171 Average 3 16740.00 49.49 68.30 -18.81 41.36 42.45 17.43 51.75 -- -- Peak

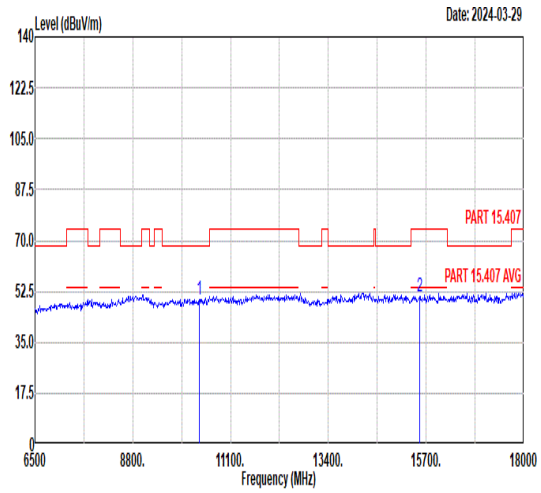
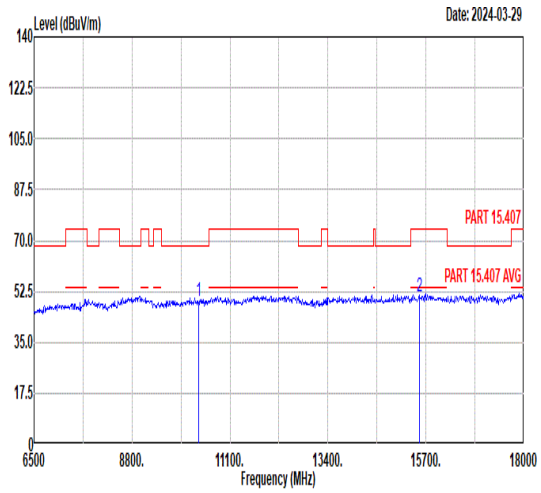
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.62 65.44 68.30 -2.86 51.06 35.12 11.65 32.39 200 65 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 106.31 ------ ------ 91.94 35.08 11.66 32.37 200 65 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 99.47 ------ ------ 85.09 35.07 11.67 32.36 200 65 AVERAGE

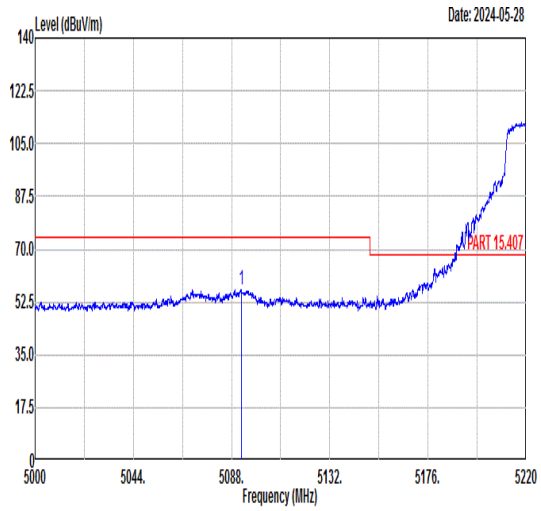
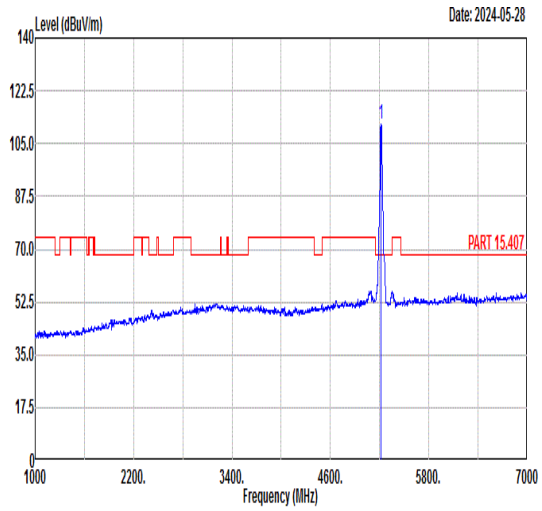
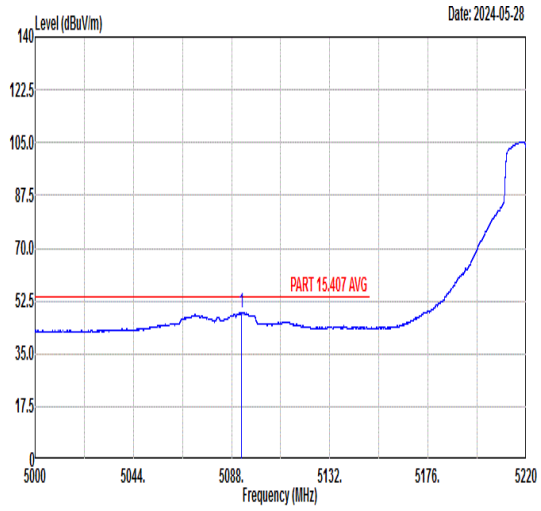
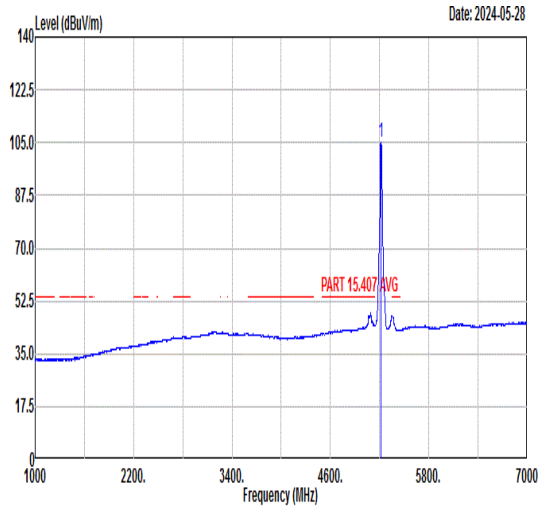
Mode	9	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.97 63.70 68.30 -4.60 49.32 35.12 11.65 32.39 226 168 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 102.82 ------ ------ 88.45 35.08 11.66 32.37 226 168 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 96.28 ------ ------ 81.90 35.07 11.67 32.36 226 168 AVERAGE

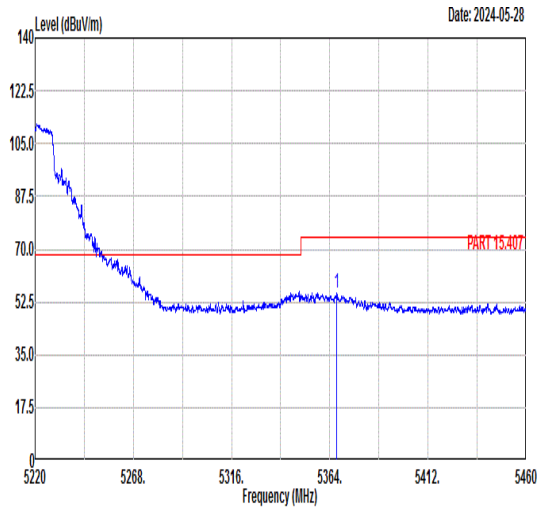
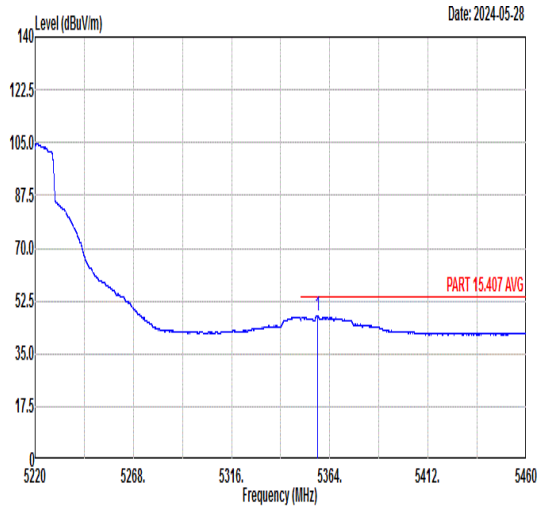
Mode	9	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 60.73 74.00 -13.27 56.95 39.72 14.78 50.72 258 50 Peak 2 11400.00 51.71 54.00 -2.29 47.93 39.72 14.78 50.72 258 50 Average 3 17100.00 50.91 68.30 -17.39 42.72 42.46 17.53 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 60.93 74.00 -13.07 57.15 39.72 14.78 50.72 139 360 Peak 2 11400.00 52.74 54.00 -1.26 48.96 39.72 14.78 50.72 139 360 Average 3 17100.00 50.09 68.30 -18.21 41.90 42.46 17.53 51.80 -- -- Peak

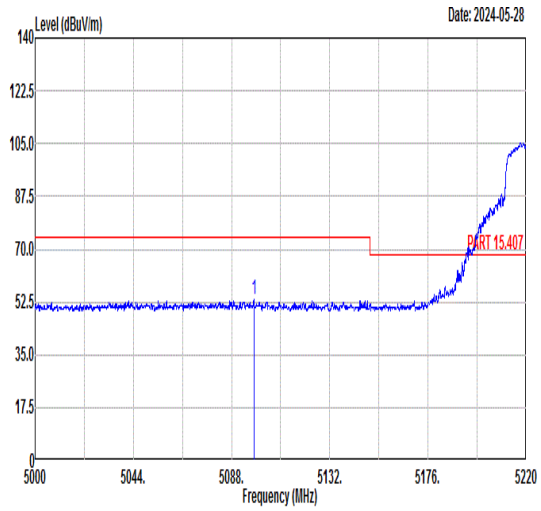
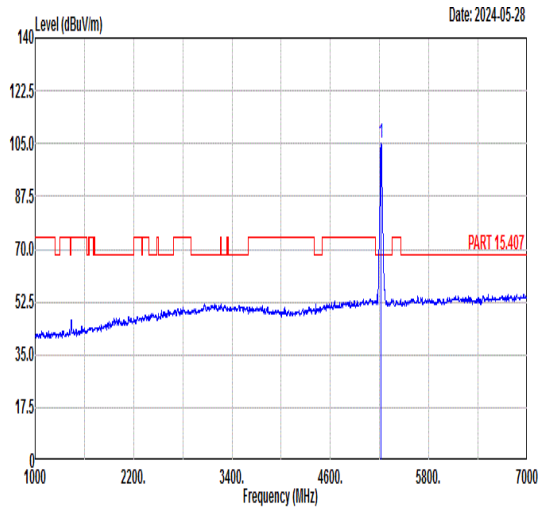
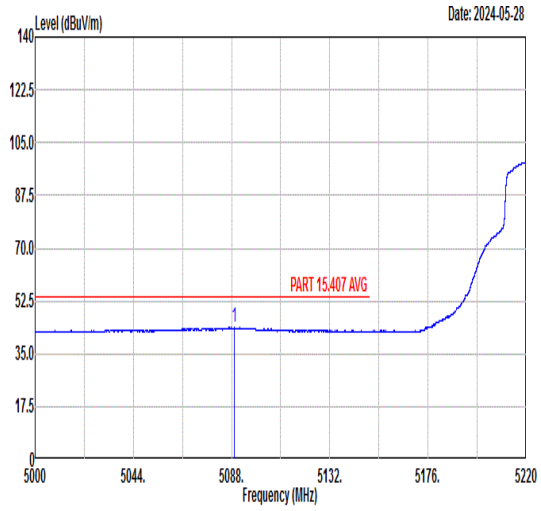
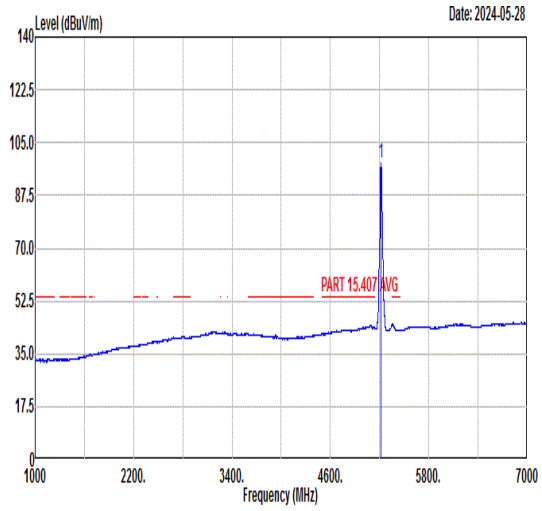
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5144.81 64.49 74.00 -9.51 50.30 34.87 11.09 31.77 207 60 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 106.47 ------ ------ 92.34 34.87 11.07 31.81 207 60 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.96 53.37 54.00 -0.63 39.19 34.87 11.09 31.78 207 60 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 100.26 ------ ------ 86.15 34.86 11.07 31.82 207 60 AVERAGE

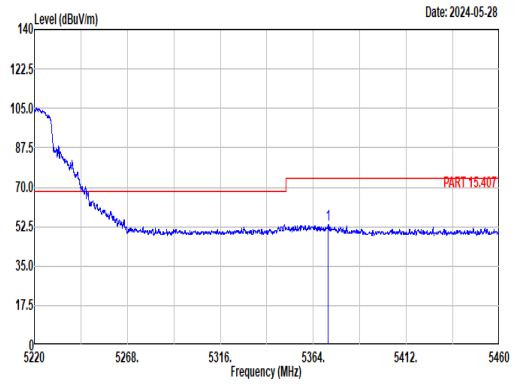
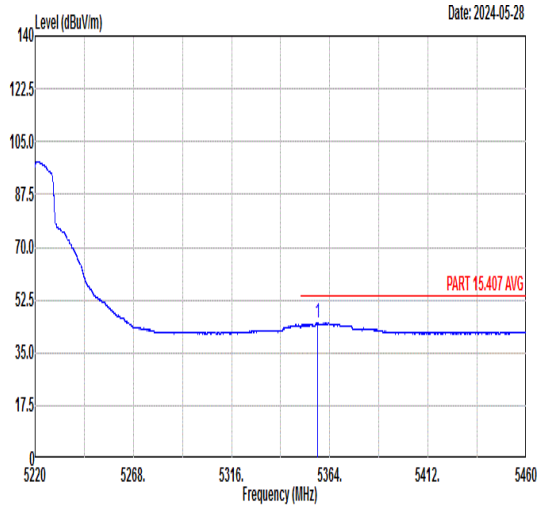
Mode	10	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5144.81 60.62 74.00 -13.38 46.43 34.87 11.09 31.77 237 164 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 103.62 ------ ------ 89.51 34.86 11.07 31.82 237 164 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.96 49.68 54.00 -4.32 35.50 34.87 11.09 31.78 237 164 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5180.00 96.33 ------ ------ 82.20 34.87 11.07 31.81 237 164 AVERAGE

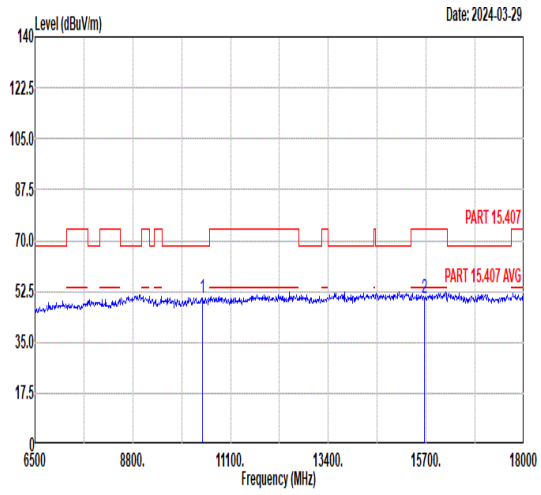
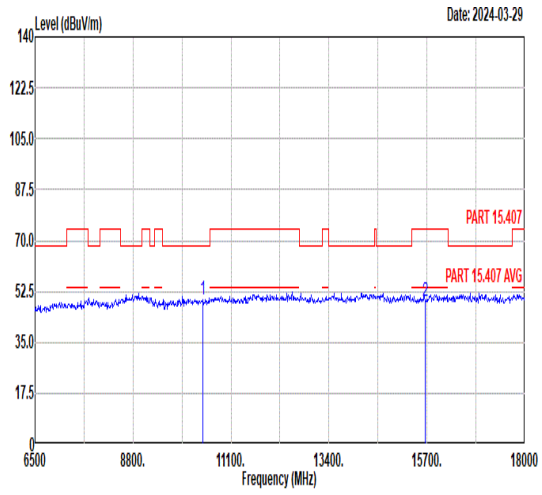
Mode	10	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 49.49 68.30 -18.81 46.67 39.44 14.15 50.77 -- -- Peak 2 15540.00 50.85 74.00 -23.15 43.61 41.82 16.85 51.43 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10360.00 49.22 68.30 -19.08 46.40 39.44 14.15 50.77 -- -- Peak 2 15540.00 50.85 74.00 -23.15 43.61 41.82 16.85 51.43 -- -- Peak

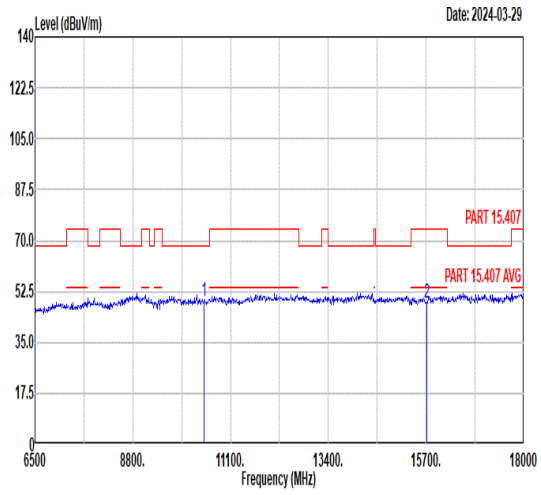
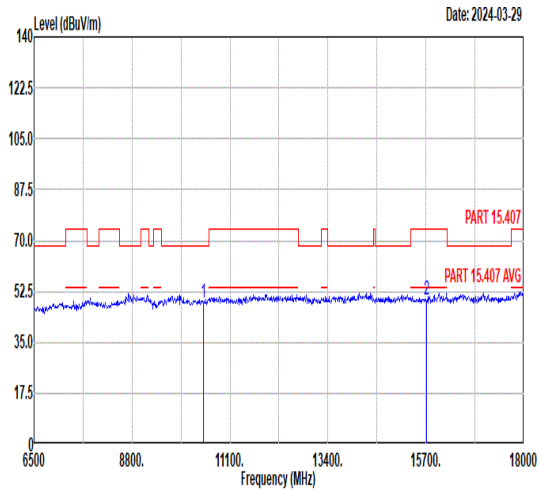
Mode	11	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5092.31 56.79 74.00 -17.21 42.50 34.88 11.12 31.71 398 268 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 111.48 ------ ------ 97.43 34.86 11.05 31.86 398 268 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5092.31 48.65 54.00 -5.35 34.36 34.88 11.12 31.71 398 268 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 105.12 ------ ------ 91.07 34.86 11.05 31.86 398 268 AVERAGE

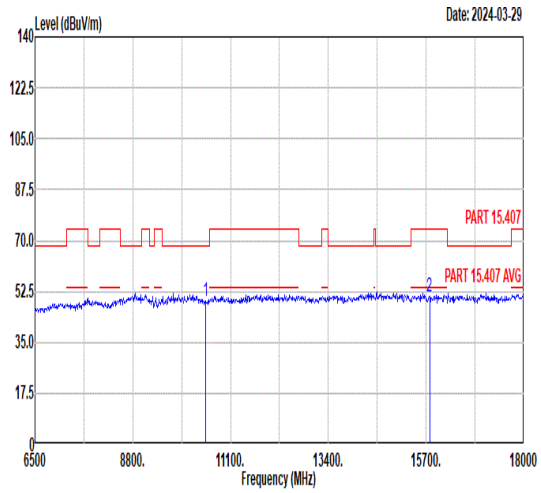
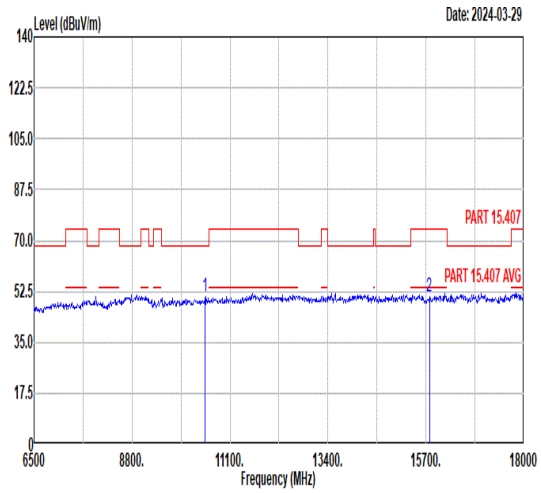
Mode	11	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5367.50 55.41 74.00 -18.59 41.70 34.83 10.93 32.05 398 268 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5357.86 47.74 54.00 -6.26 34.01 34.83 10.94 32.04 398 268 AVERAGE	Blank

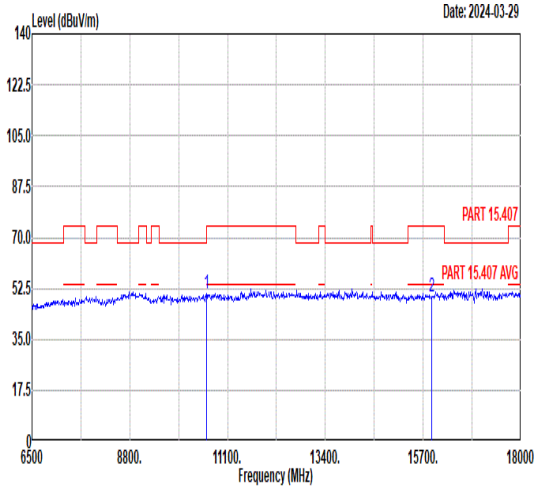
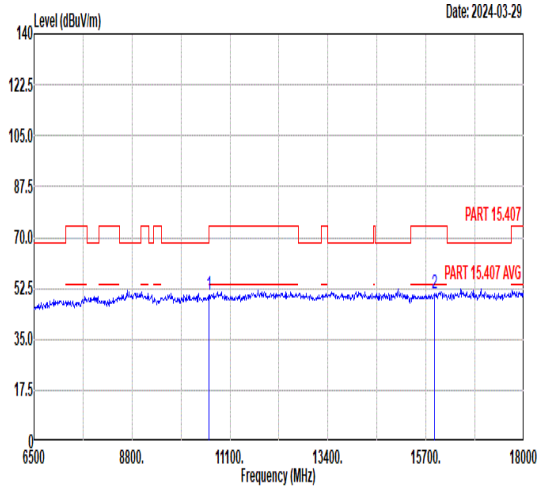
Mode	11	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5098.01 53.21 74.00 -20.79 38.94 34.88 11.11 31.72 375 0 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 105.11 ------ ------ 91.08 34.86 11.04 31.87 375 0 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5089.21 43.73 54.00 -10.27 29.44 34.88 11.12 31.71 375 0 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5220.00 98.28 ------ ------ 84.23 34.86 11.05 31.86 375 0 AVERAGE

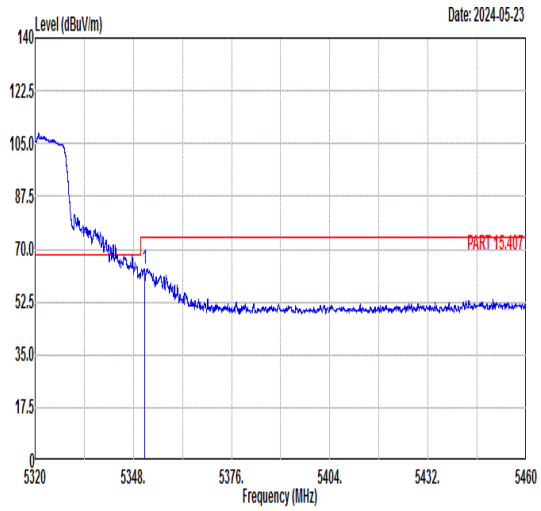
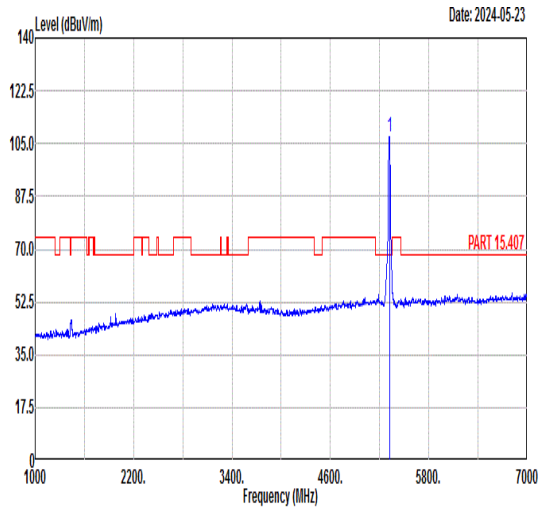
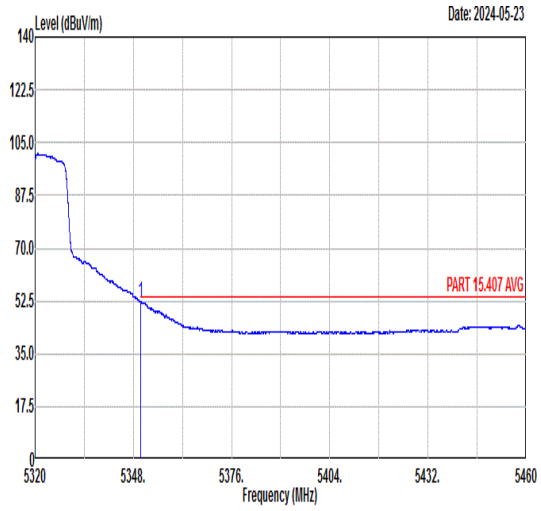
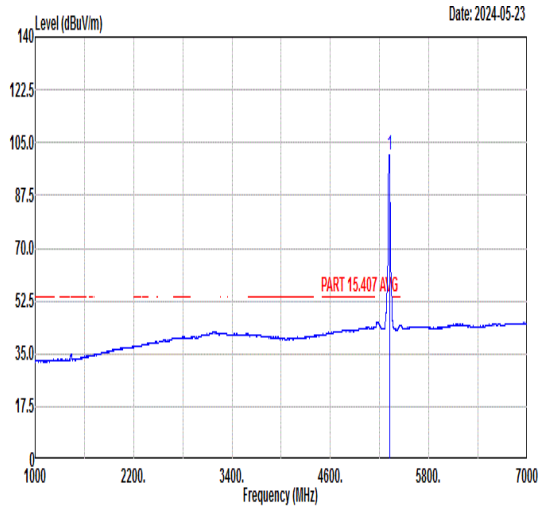
Mode	11	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5371.56 53.22 74.00 -20.78 39.52 34.83 10.93 32.06 375 0 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5357.88 44.98 54.00 -9.02 31.25 34.83 10.94 32.04 375 0 AVERAGE	Blank

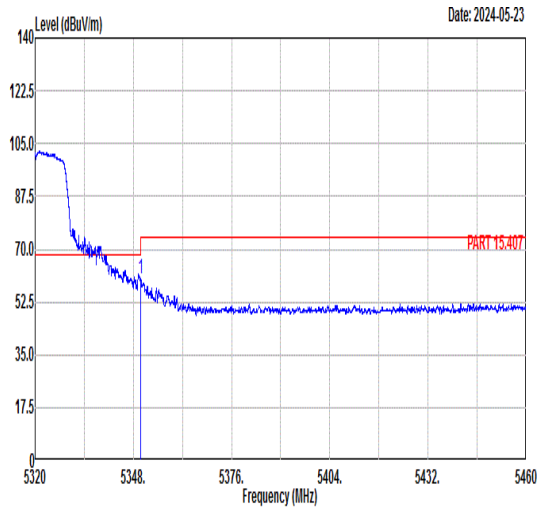
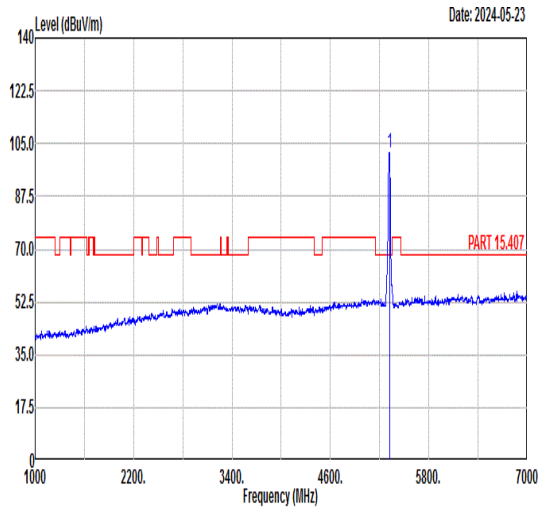
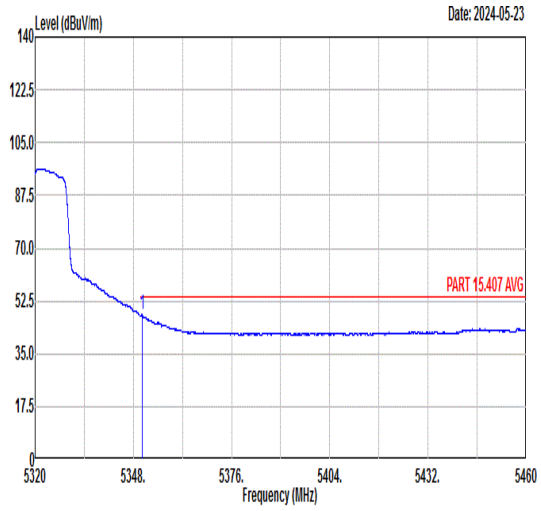
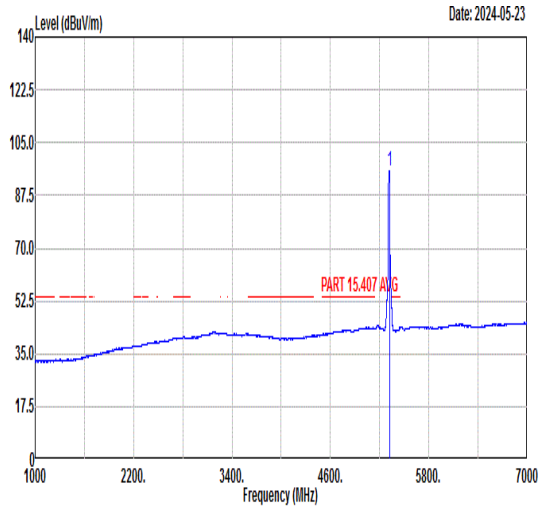
Mode	11	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 50.11 68.30 -18.19 47.22 39.48 14.20 50.79 -- -- Peak 2 15660.00 49.99 74.00 -24.01 42.68 41.90 16.94 51.53 -- -- Peak	 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10440.00 49.61 68.30 -18.69 46.72 39.48 14.20 50.79 -- -- Peak 2 15660.00 49.29 74.00 -24.71 41.98 41.90 16.94 51.53 -- -- Peak

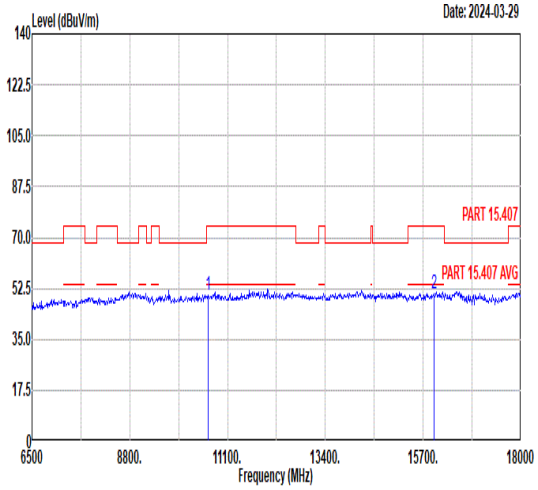
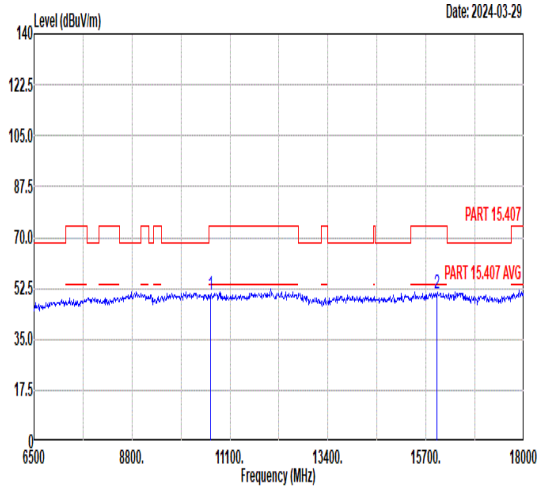
Mode	12	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 49.29 68.30 -19.01 46.37 39.49 14.23 50.80 -- -- Peak 2 15720.00 48.84 74.00 -25.16 41.50 41.93 16.99 51.58 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10480.00 48.69 68.30 -19.61 45.77 39.49 14.23 50.80 -- -- Peak 2 15720.00 49.60 74.00 -24.40 42.26 41.93 16.99 51.58 -- -- Peak

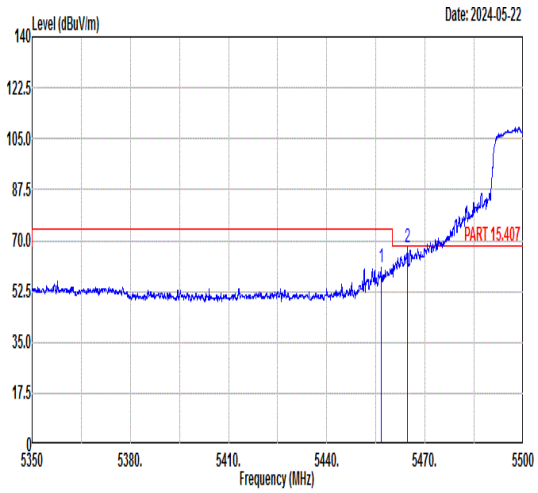
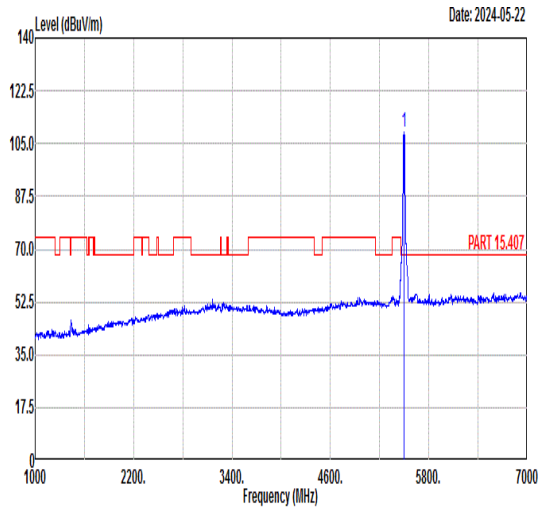
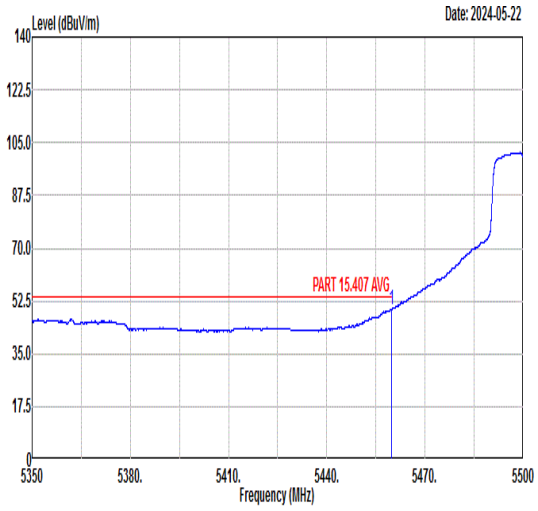
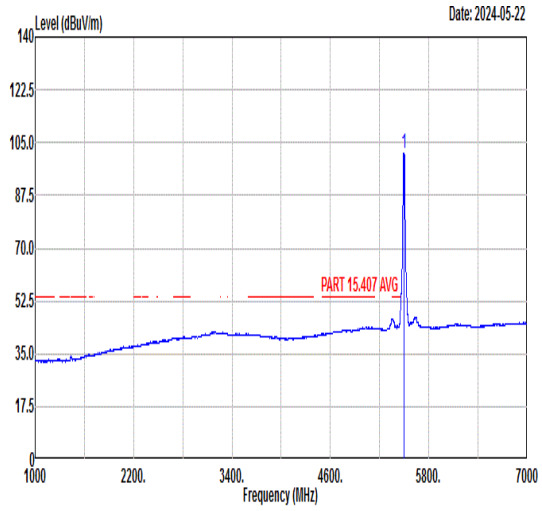
Mode	13	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH52_5280MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 49.34 68.30 -18.96 46.39 39.50 14.25 50.80 -- -- Peak 2 15780.00 50.98 74.00 -23.02 43.60 41.97 17.04 51.63 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 50.97 68.30 -17.33 48.02 39.50 14.25 50.80 -- -- Peak 2 15780.00 50.83 74.00 -23.17 43.45 41.97 17.04 51.63 -- -- Peak

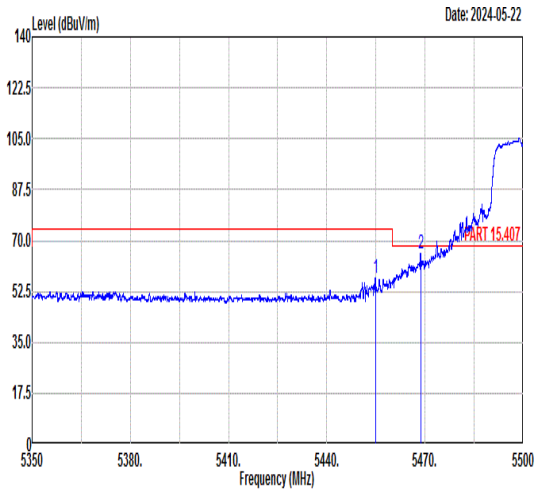
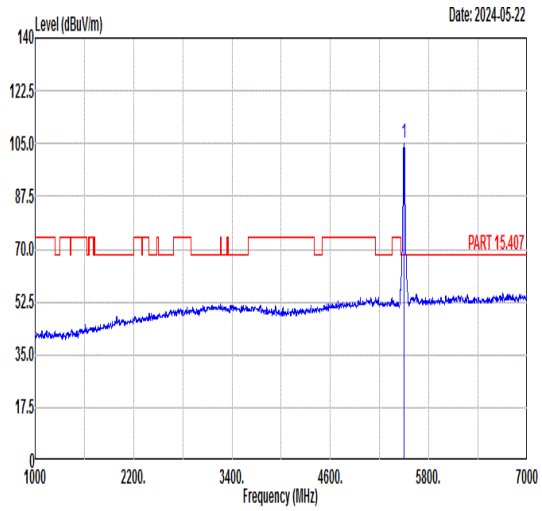
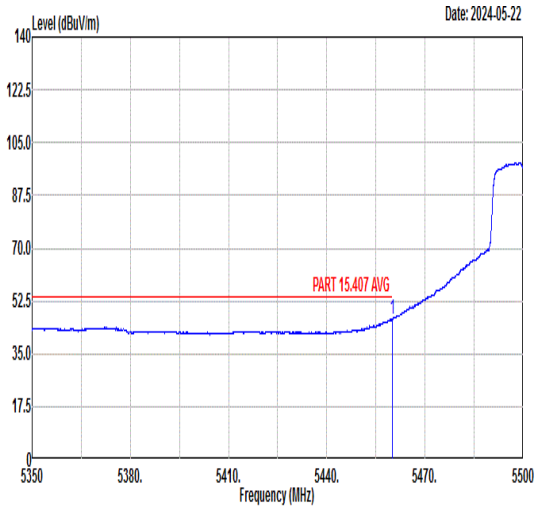
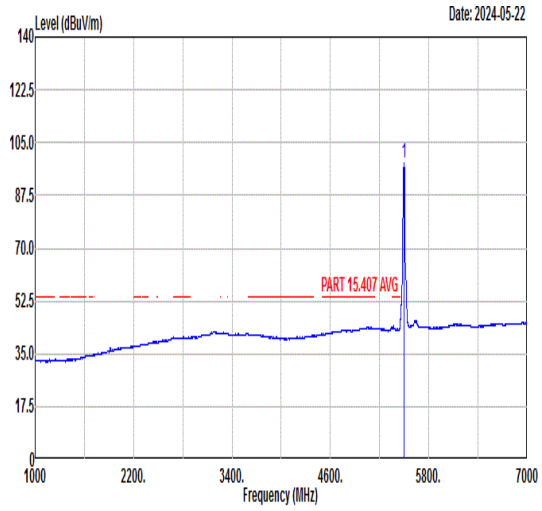
Mode	14	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH60_5300MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 50.80 74.00 -23.20 47.82 39.48 14.30 50.80 -- -- Peak 2 15900.00 49.82 74.00 -24.18 42.36 42.04 17.14 51.72 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10600.00 50.10 74.00 -23.90 47.12 39.48 14.30 50.80 -- -- Peak 2 15900.00 50.71 74.00 -23.29 43.25 42.04 17.14 51.72 -- -- Peak

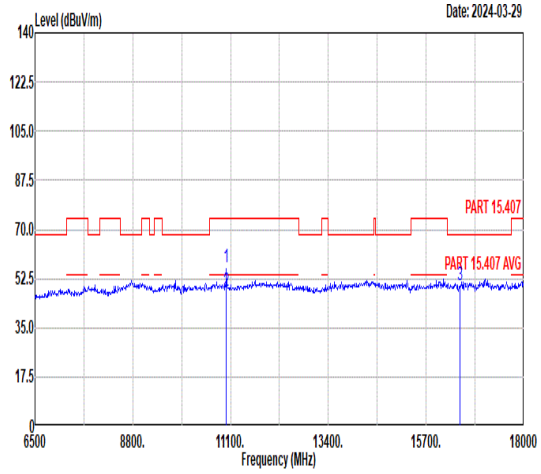
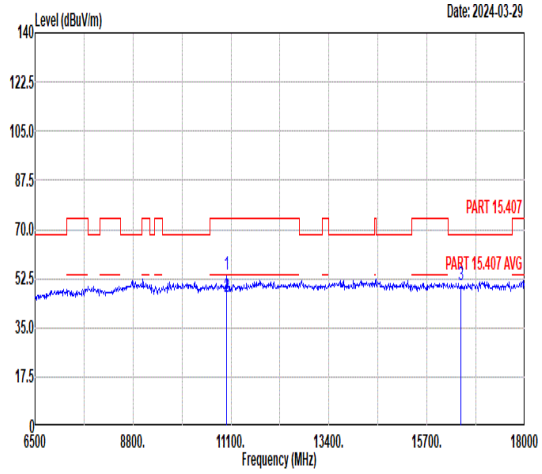
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5351.16 63.55 74.00 -10.45 49.81 34.83 10.94 32.03 210 56 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 107.32 ------ ------ 93.50 34.84 10.97 31.99 210 56 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.00 52.19 54.00 -1.81 38.45 34.83 10.94 32.03 210 56 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 100.95 ------ ------ 87.13 34.84 10.97 31.99 210 56 AVERAGE

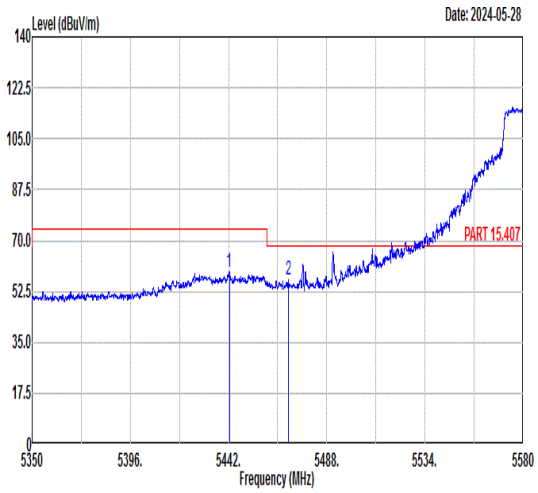
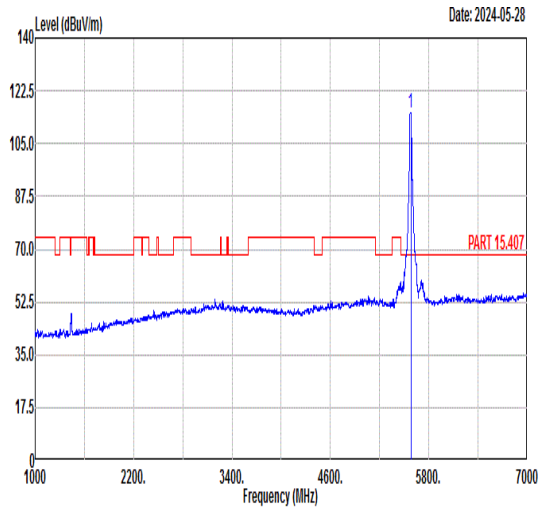
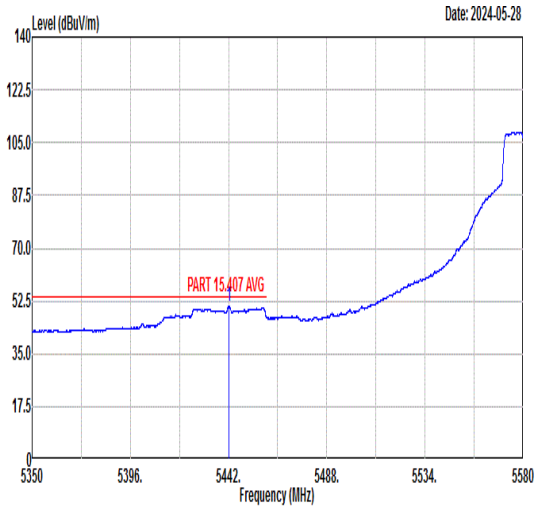
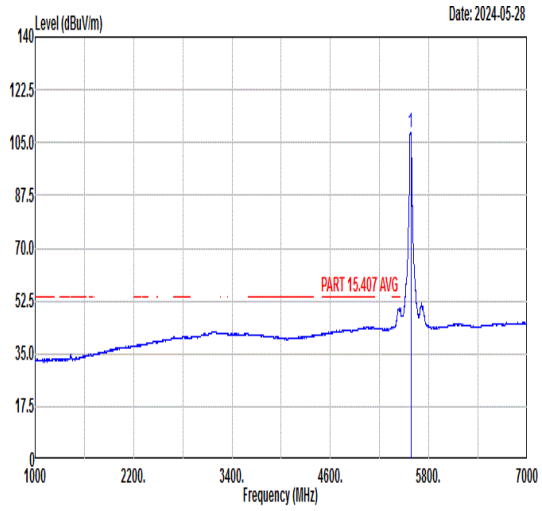
Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.17 60.18 74.00 -13.82 46.44 34.83 10.94 32.03 231 167 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 102.16 ------ ------ 88.34 34.84 10.97 31.99 231 167 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.45 47.84 54.00 -6.16 34.10 34.83 10.94 32.03 231 167 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5320.00 95.88 ------ ------ 82.06 34.84 10.97 31.99 231 167 AVERAGE

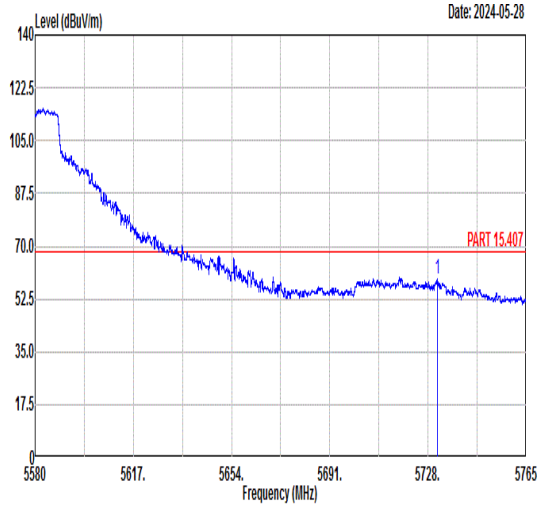
Mode	15	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 49.99 74.00 -24.01 47.00 39.47 14.32 50.80 -- -- Peak 2 15960.00 50.78 74.00 -23.22 43.28 42.08 17.19 51.77 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10640.00 50.16 74.00 -23.84 47.17 39.47 14.32 50.80 -- -- Peak 2 15960.00 50.66 74.00 -23.34 43.16 42.08 17.19 51.77 -- -- Peak

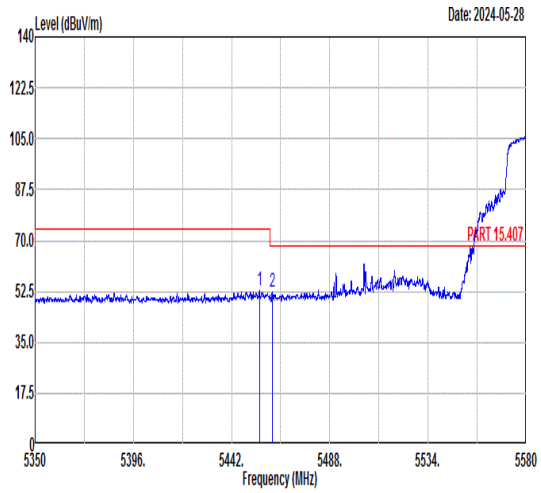
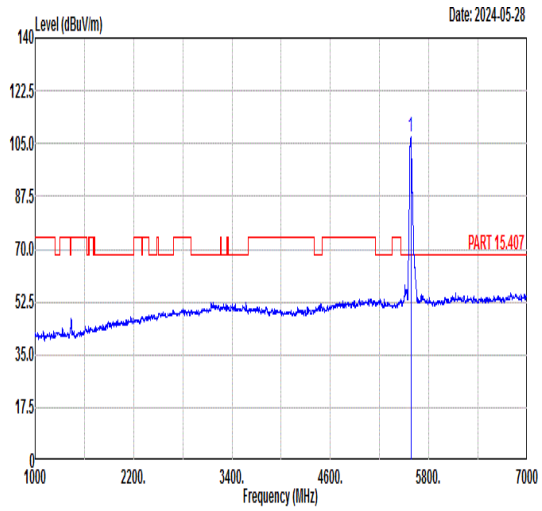
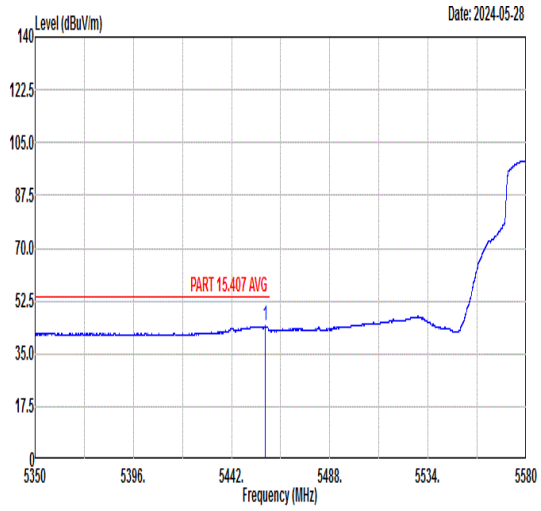
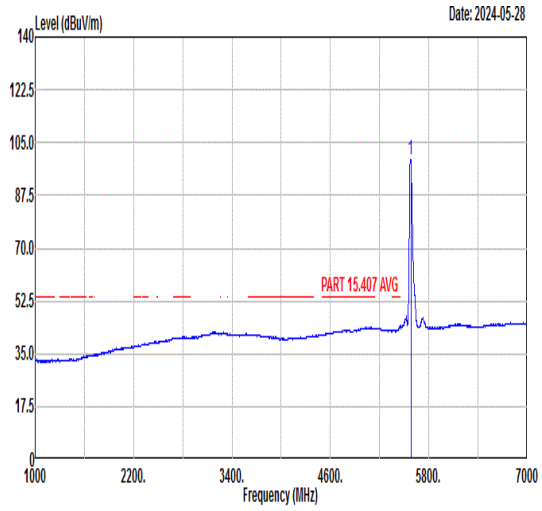
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5456.59 60.79 74.00 -13.21 47.03 34.81 11.11 32.16 210 62 PEAK 2 5464.68 67.74 68.30 -0.56 53.96 34.81 11.14 32.17 210 62 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 108.59 ------ ------ 94.73 34.80 11.27 32.21 210 62 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5459.89 49.92 54.00 -4.08 36.16 34.81 11.12 32.17 210 62 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 101.65 ------ ------ 87.79 34.80 11.27 32.21 210 62 AVERAGE

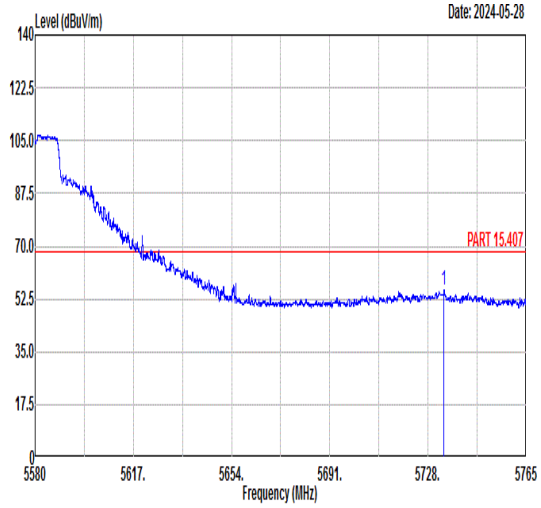
Mode	16	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5454.93 56.90 74.00 -17.10 43.15 34.81 11.10 32.16 242 174 PEAK 2 5468.73 65.69 68.30 -2.61 51.90 34.81 11.16 32.18 242 174 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 105.00 ------ ------ 91.14 34.80 11.27 32.21 242 174 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5460.00 46.49 54.00 -7.51 32.73 34.81 11.12 32.17 242 174 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5500.00 98.04 ------ ------ 84.18 34.80 11.27 32.21 242 174 AVERAGE

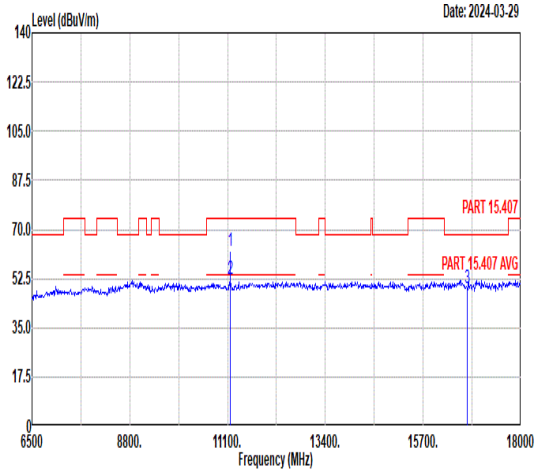
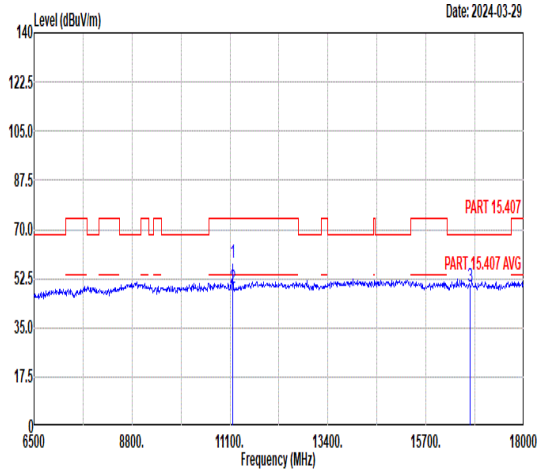
Mode	16	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 56.41 74.00 -17.59 53.27 39.40 14.54 50.80 259 66 Peak 2 11000.00 48.01 54.00 -5.99 44.87 39.40 14.54 50.80 259 66 Average 3 16500.00 50.40 68.30 -17.90 42.44 42.40 17.36 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11000.00 54.06 74.00 -19.94 50.92 39.40 14.54 50.80 106 198 Peak 2 11000.00 45.96 54.00 -8.04 42.82 39.40 14.54 50.80 106 198 Average 3 16500.00 50.39 68.30 -17.91 42.43 42.40 17.36 51.80 -- -- Peak

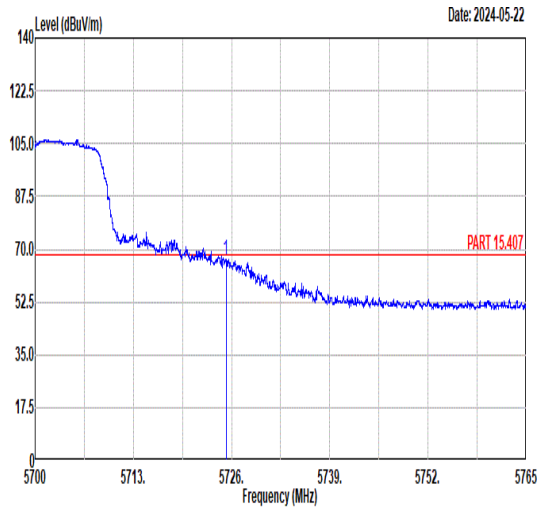
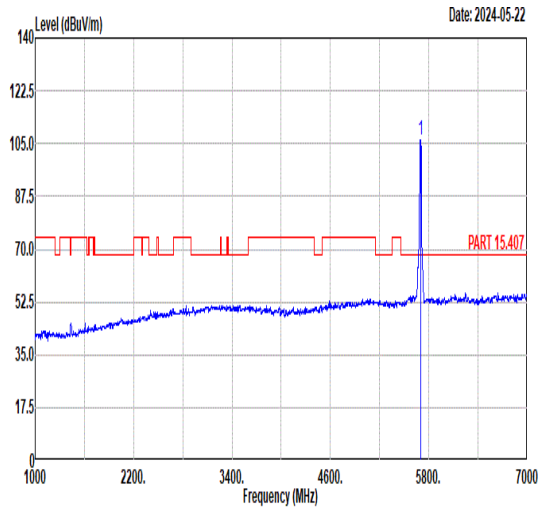
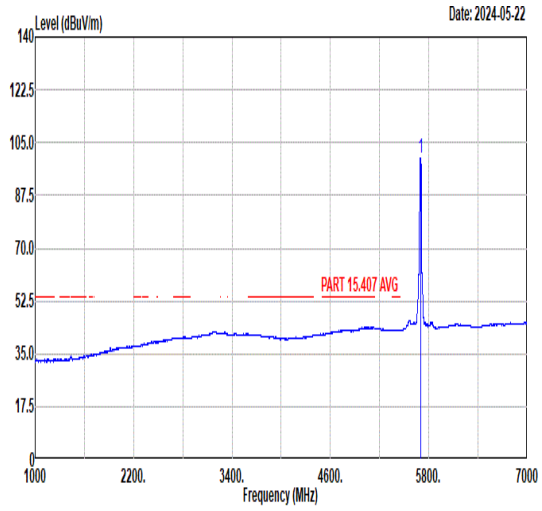
Mode	17	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5442.35 59.17 74.00 -14.83 45.45 34.81 11.05 32.14 201 63 PEAK 2 5469.97 56.76 68.30 -11.54 42.97 34.81 11.16 32.18 201 63 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 115.31 ------ ------ 101.07 34.91 11.60 32.27 201 63 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5442.32 50.64 54.00 -3.36 36.92 34.81 11.05 32.14 201 63 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 108.40 ------ ------ 94.14 34.91 11.62 32.27 201 63 AVERAGE

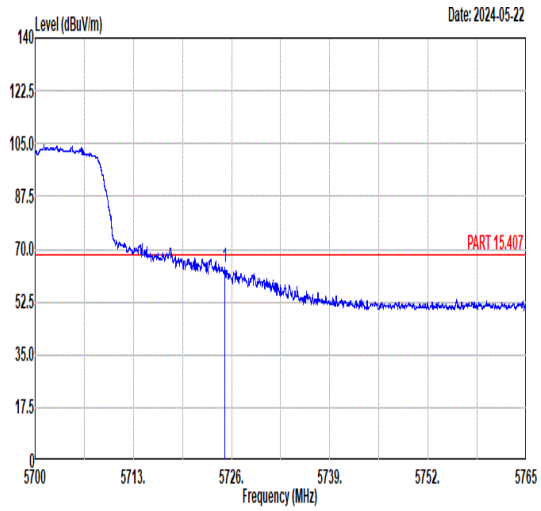
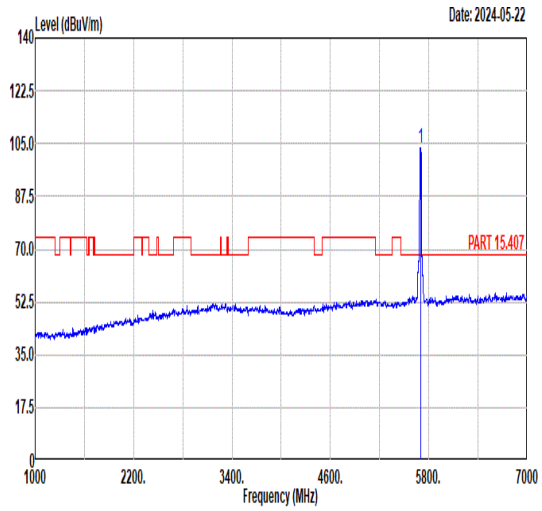
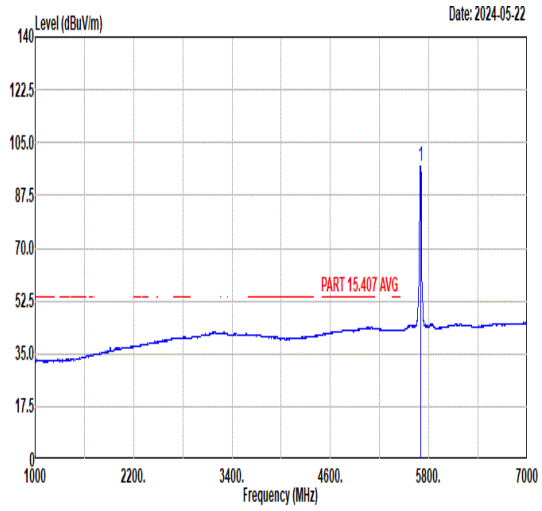
Mode	17	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5731.44 59.11 68.30 -9.19 44.73 35.12 11.65 32.39 201 63 PEAK	Blank

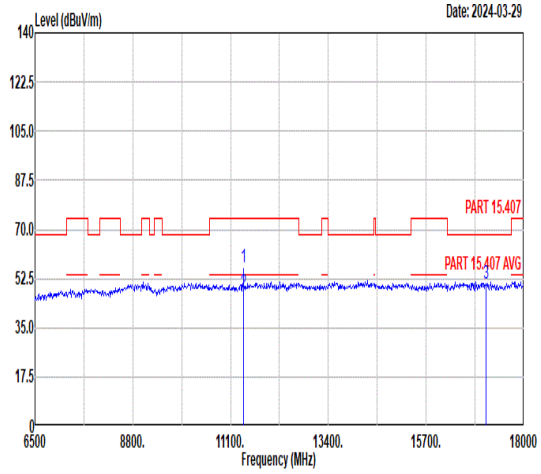
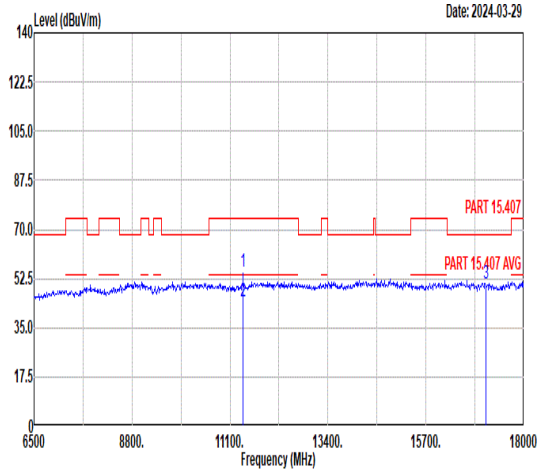
Mode	17	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5455.02 52.92 74.00 -21.08 39.17 34.81 11.10 32.16 400 352 PEAK 2 5460.98 52.33 68.30 -15.97 38.57 34.81 11.12 32.17 400 352 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 107.00 ------ ------ 92.74 34.91 11.62 32.27 400 352 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5457.76 44.14 54.00 -9.86 30.38 34.81 11.11 32.16 400 352 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5580.00 99.41 ------ ------ 85.15 34.91 11.62 32.27 400 352 AVERAGE

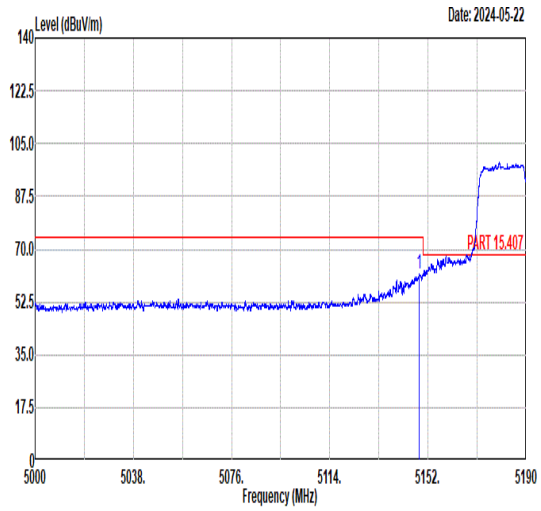
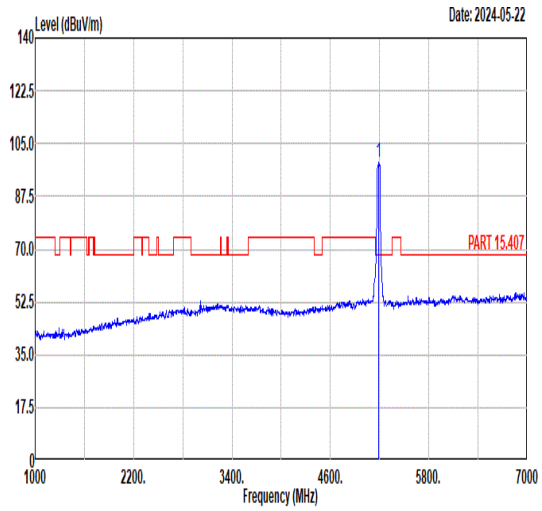
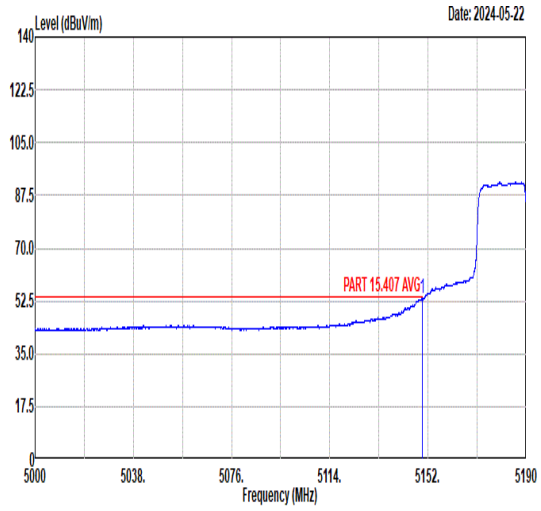
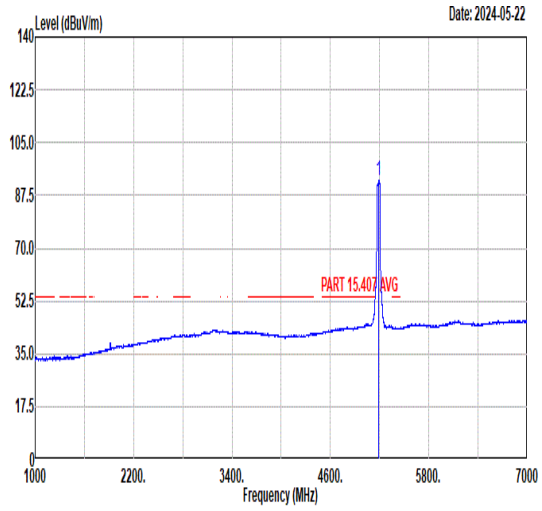
Mode	17	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5734.03 55.68 68.30 -12.62 41.29 35.13 11.65 32.39 400 352 PEAK	Blank

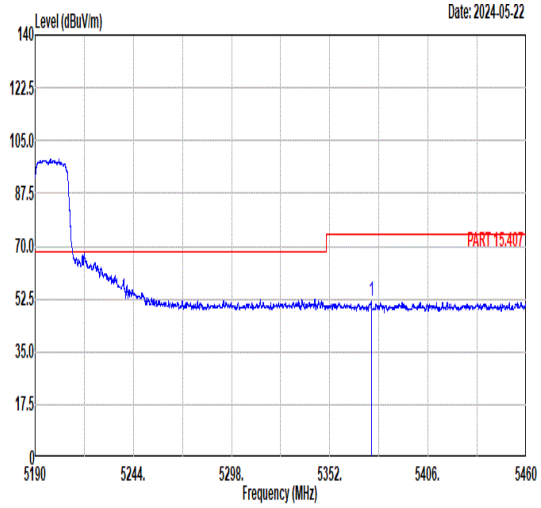
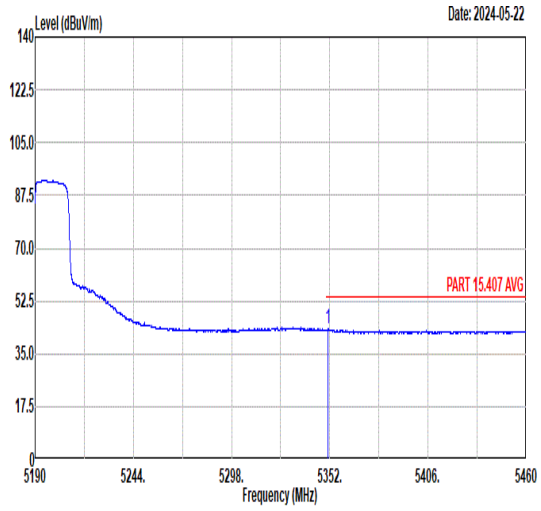
Mode	17	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 62.56 74.00 -11.44 59.16 39.53 14.64 50.77 258 133 Peak 2 11160.00 52.27 54.00 -1.73 48.87 39.53 14.64 50.77 258 133 Average 3 16740.00 48.95 68.30 -19.35 40.82 42.45 17.43 51.75 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11160.00 58.32 74.00 -15.68 54.92 39.53 14.64 50.77 108 195 Peak 2 11160.00 49.36 54.00 -4.64 45.96 39.53 14.64 50.77 108 195 Average 3 16740.00 49.50 68.30 -18.80 41.37 42.45 17.43 51.75 -- -- Peak

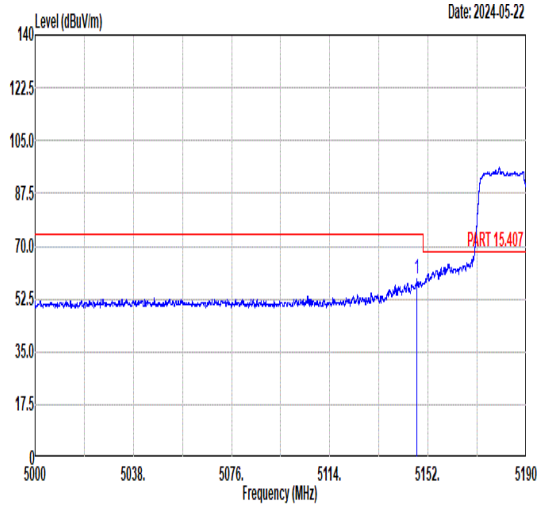
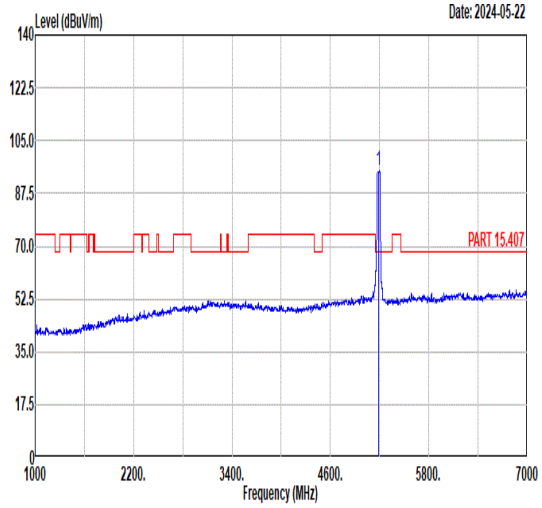
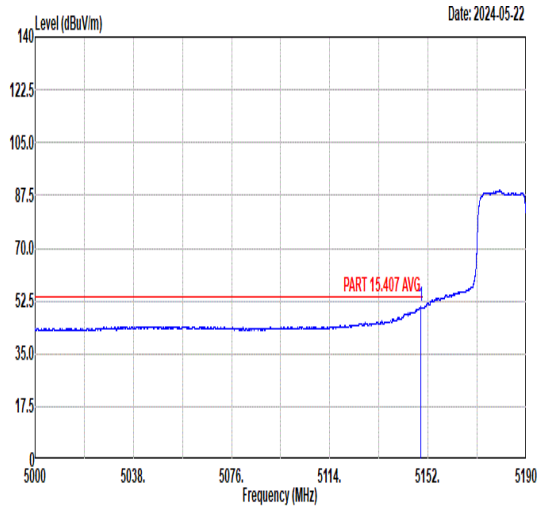
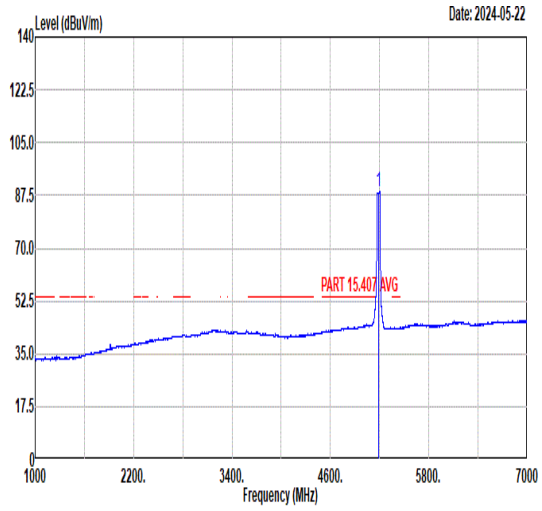
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.26 66.71 68.30 -1.59 52.33 35.12 11.65 32.39 204 65 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 106.43 ------ ------ 92.05 35.07 11.67 32.36 204 65 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 99.74 ------ ------ 85.37 35.08 11.66 32.37 204 65 AVERAGE

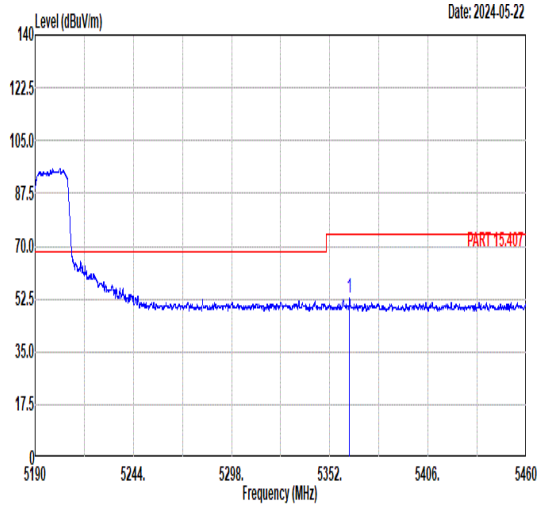
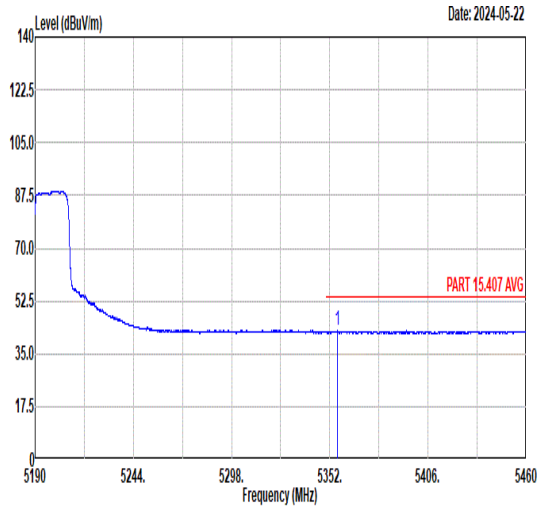
Mode	18	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.06 63.76 68.30 -4.54 49.38 35.12 11.65 32.39 238 170 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 103.35 ------ ------ 88.98 35.08 11.66 32.37 238 170 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5700.00 97.14 ------ ------ 82.77 35.08 11.66 32.37 238 170 AVERAGE

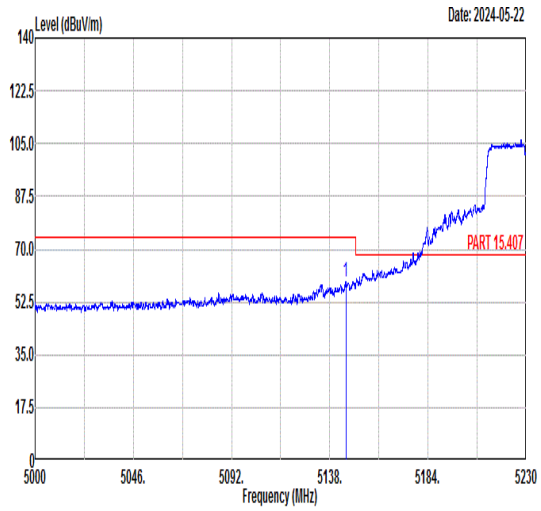
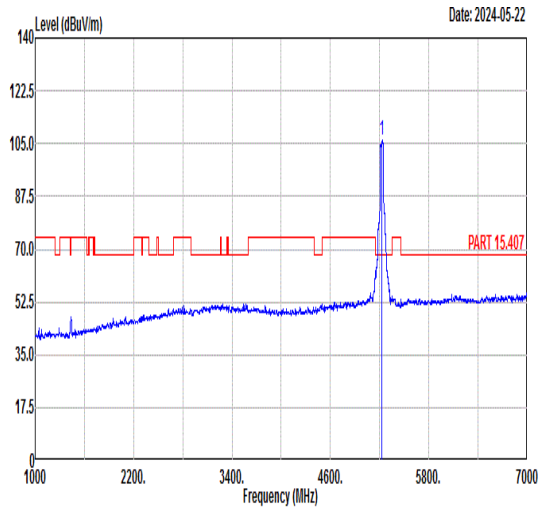
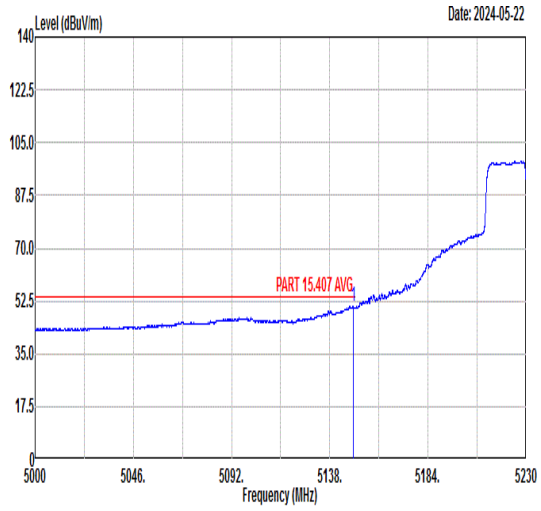
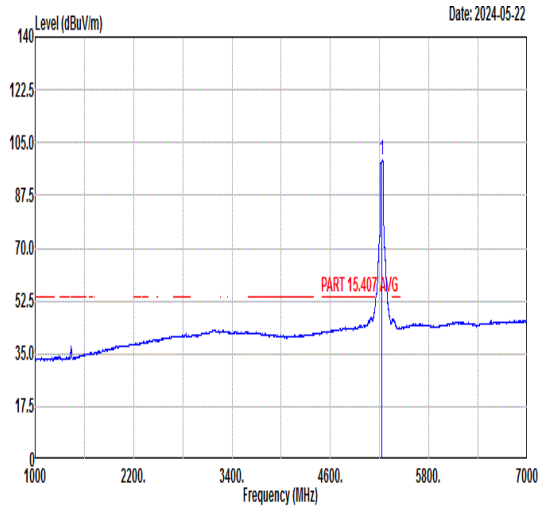
Mode	18	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 56.74 74.00 -17.26 52.96 39.72 14.78 50.72 258 130 Peak 2 11400.00 47.71 54.00 -6.29 43.93 39.72 14.78 50.72 258 130 Average 3 17100.00 50.63 68.30 -17.67 42.44 42.46 17.53 51.80 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11400.00 55.07 74.00 -18.93 51.29 39.72 14.78 50.72 108 198 Peak 2 11400.00 44.44 54.00 -9.56 40.66 39.72 14.78 50.72 108 198 Average 3 17100.00 50.96 68.30 -17.34 42.77 42.46 17.53 51.80 -- -- Peak

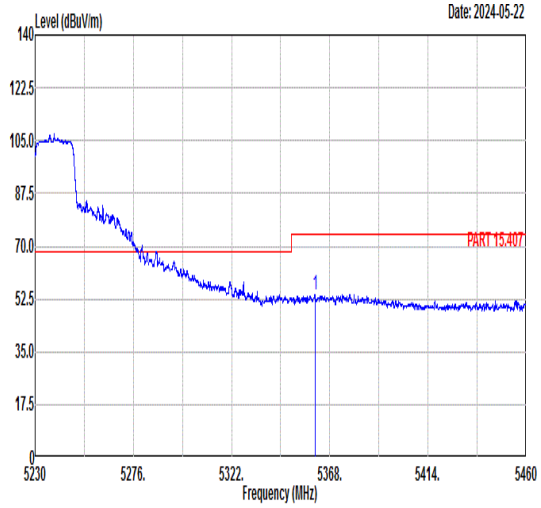
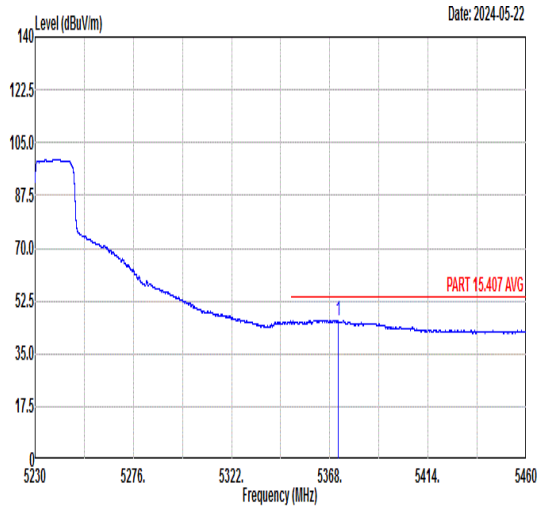
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5148.68 61.67 74.00 -12.33 47.49 34.87 11.09 31.78 207 81 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5190.00 98.62 ------ ------ 84.51 34.86 11.07 31.82 207 81 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.83 53.42 54.00 -0.58 39.24 34.87 11.09 31.78 207 81 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5190.00 92.33 ------ ------ 78.24 34.86 11.06 31.83 207 81 AVERAGE

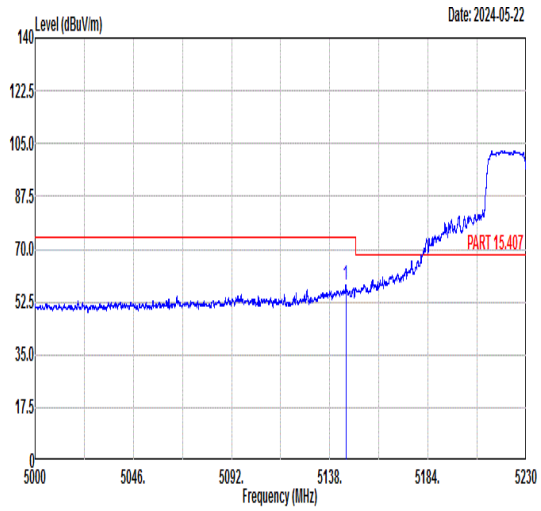
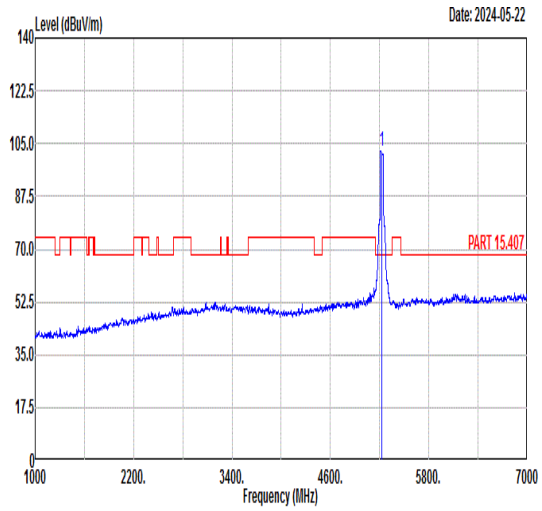
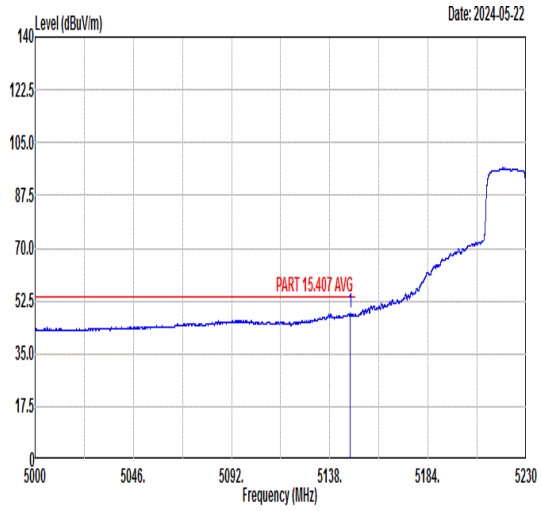
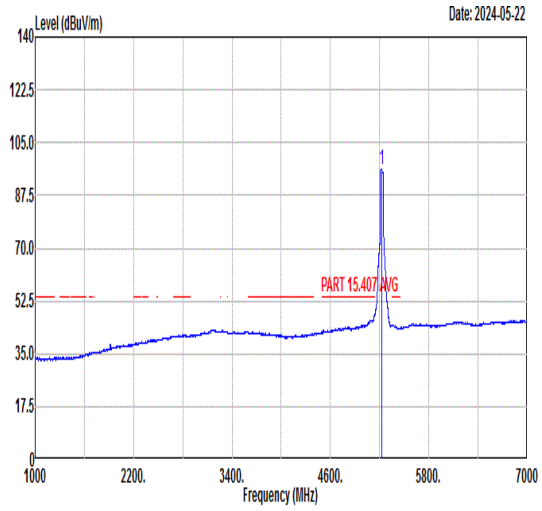
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5374.84 51.78 74.00 -22.22 38.09 34.83 10.92 32.06 207 81 PEAK	Blank
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5351.06 43.32 54.00 -10.68 29.58 34.83 10.94 32.03 207 81 AVERAGE	Blank

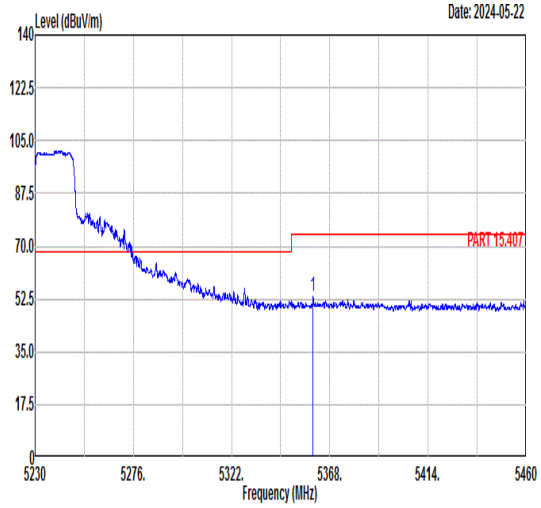
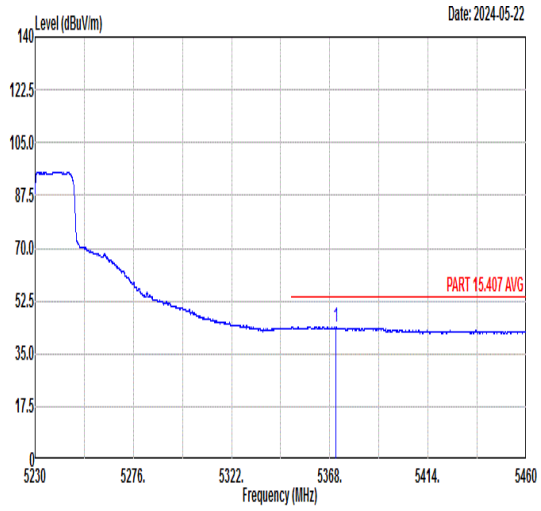
Mode	19	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5147.73 59.04 74.00 -14.96 44.86 34.87 11.09 31.78 235 165 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5190.00 94.94 ------ ------ 80.86 34.86 11.06 31.84 235 165 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.06 50.46 54.00 -3.54 36.28 34.87 11.09 31.78 235 165 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5190.00 88.66 ------ ------ 74.58 34.86 11.06 31.84 235 165 AVERAGE

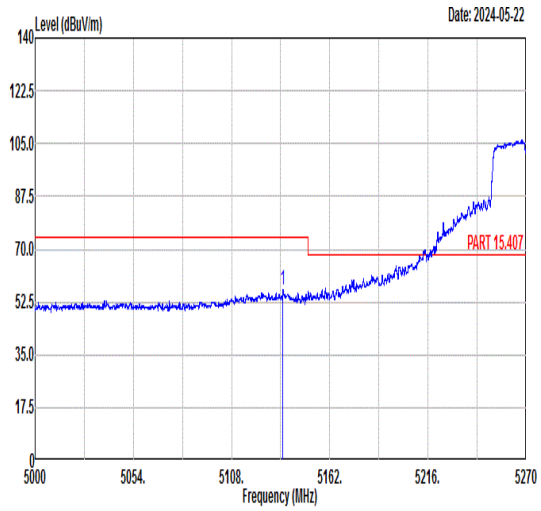
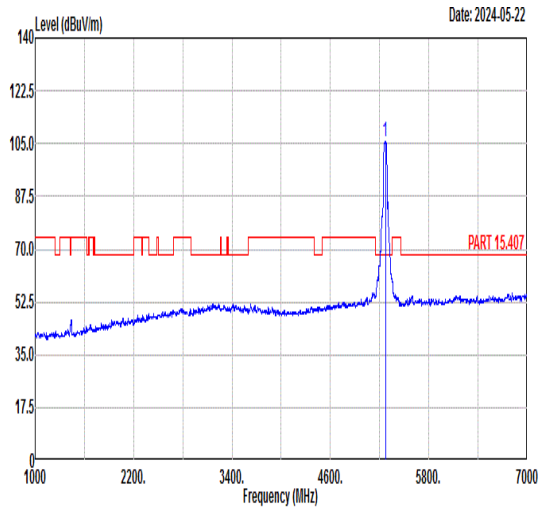
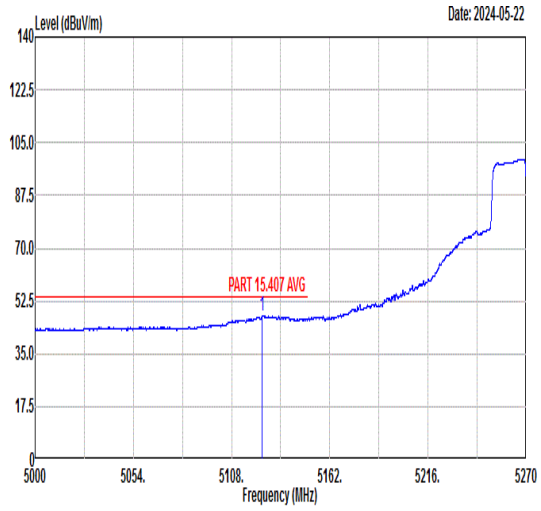
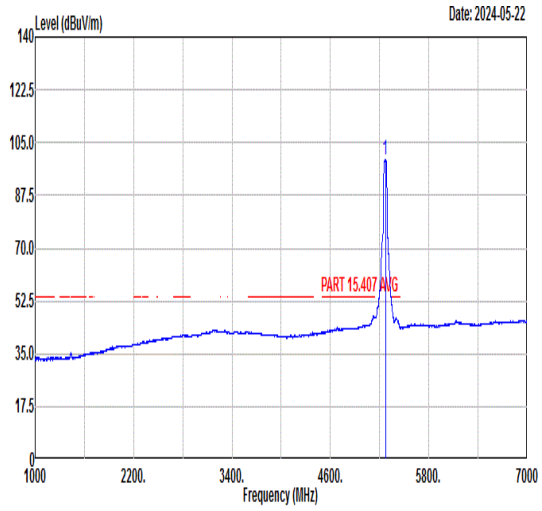
Mode	19	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5362.94 52.72 74.00 -21.28 39.01 34.83 10.93 32.05 235 165 PEAK	Blank
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5356.19 42.59 54.00 -11.41 28.86 34.83 10.94 32.04 235 165 AVERAGE	Blank

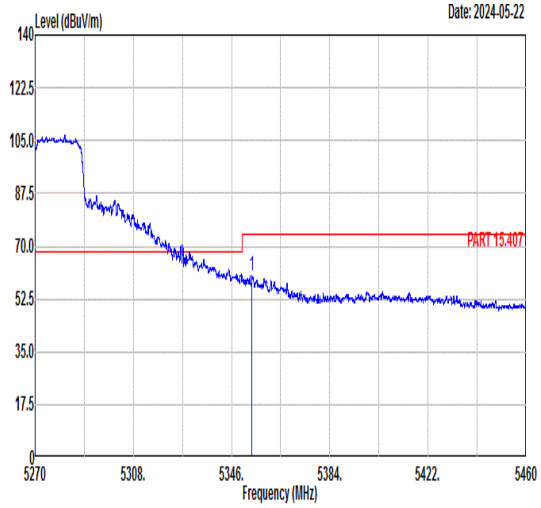
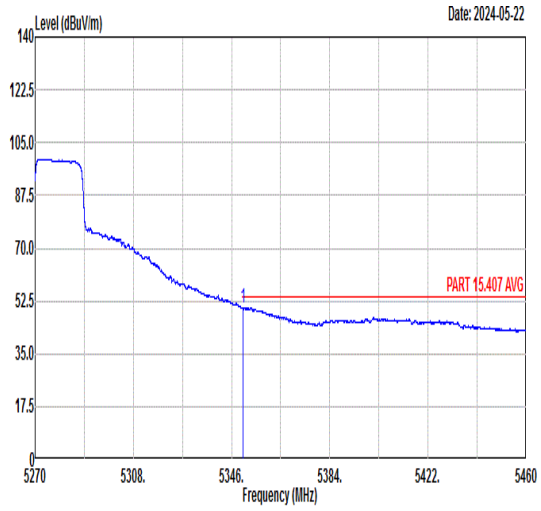
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5145.48 59.33 74.00 -14.67 45.15 34.87 11.09 31.78 216 59 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5230.00 106.15 ------ ------ 92.15 34.85 11.03 31.88 216 59 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5148.93 50.65 54.00 -3.35 36.47 34.87 11.09 31.78 216 59 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5230.00 99.17 ------ ------ 85.18 34.85 11.03 31.89 216 59 AVERAGE

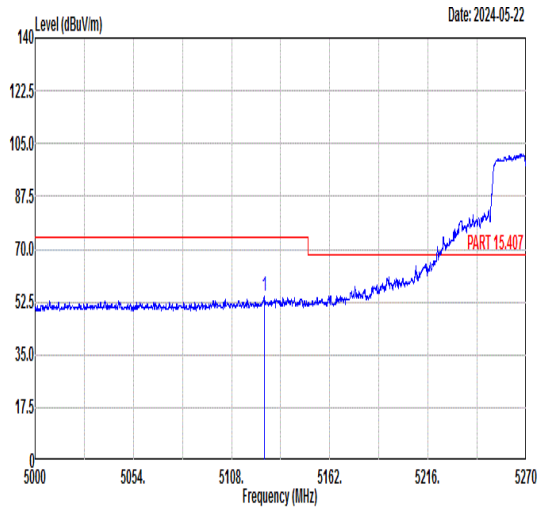
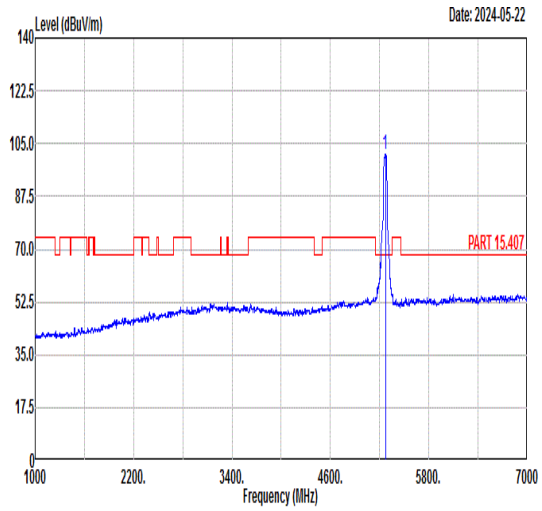
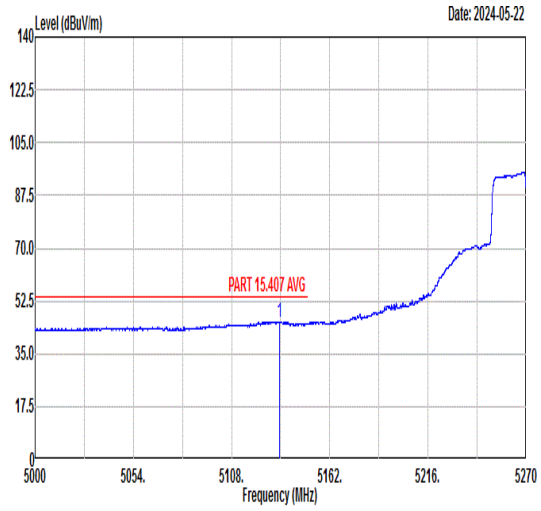
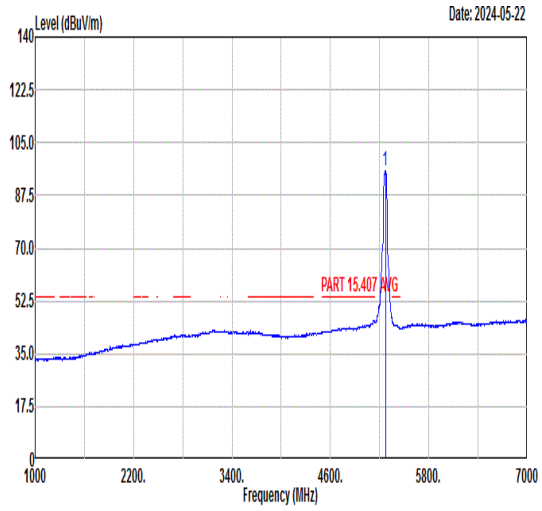
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5361.01 54.01 74.00 -19.99 40.28 34.83 10.94 32.04 216 59 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5371.80 46.20 54.00 -7.80 32.50 34.83 10.93 32.06 216 59 AVERAGE	Blank

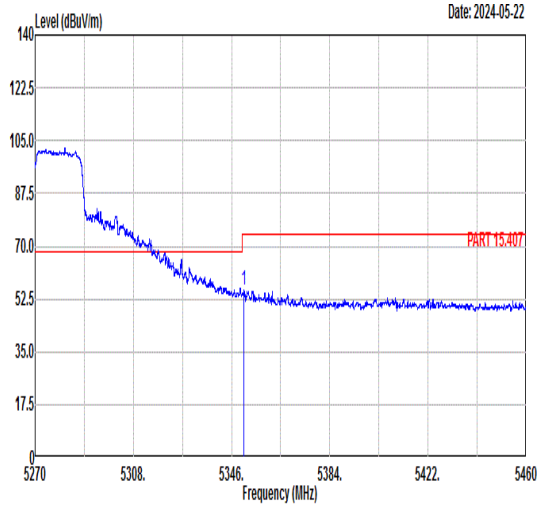
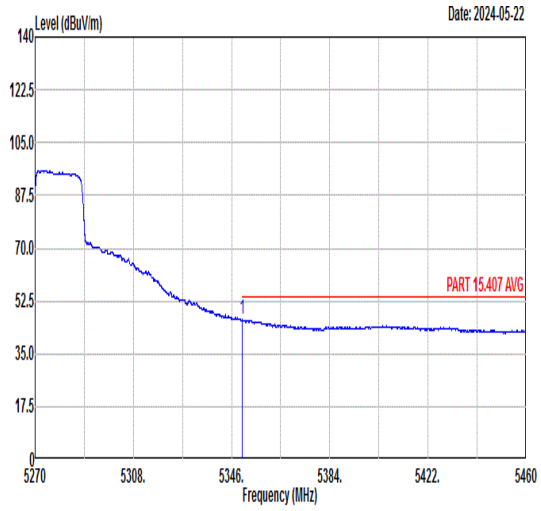
Mode	20	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5145.48 58.21 74.00 -15.79 44.03 34.87 11.09 31.78 231 166 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5230.00 102.54 ------ ------ 88.49 34.86 11.05 31.86 231 166 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.55 48.43 54.00 -5.57 34.25 34.87 11.09 31.78 231 166 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5230.00 96.39 ------ ------ 82.34 34.86 11.05 31.86 231 166 AVERAGE

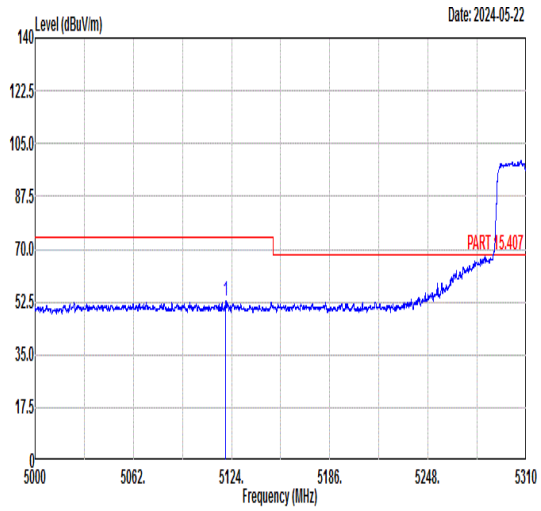
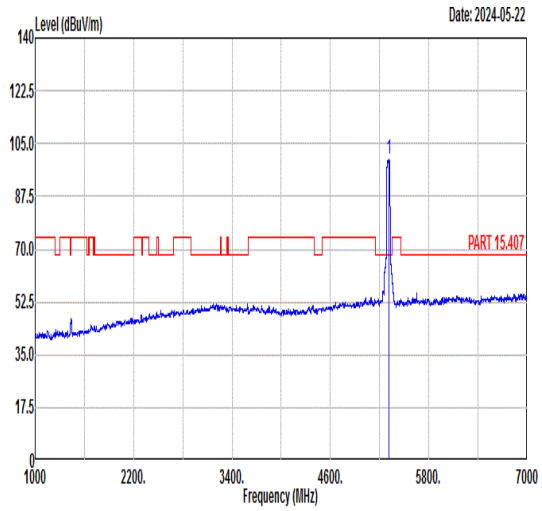
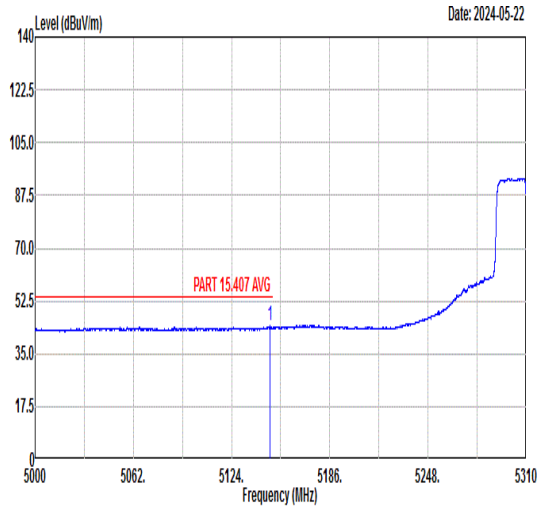
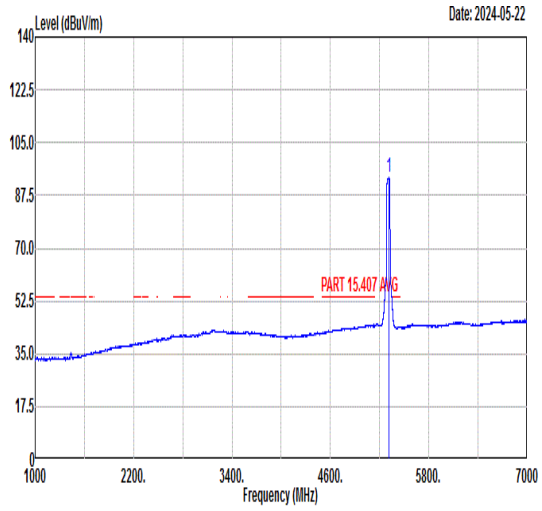
Mode	20	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5360.09 53.56 74.00 -20.44 39.83 34.83 10.94 32.04 231 166 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5370.90 44.04 54.00 -9.96 30.33 34.83 10.93 32.05 231 166 AVERAGE	Blank

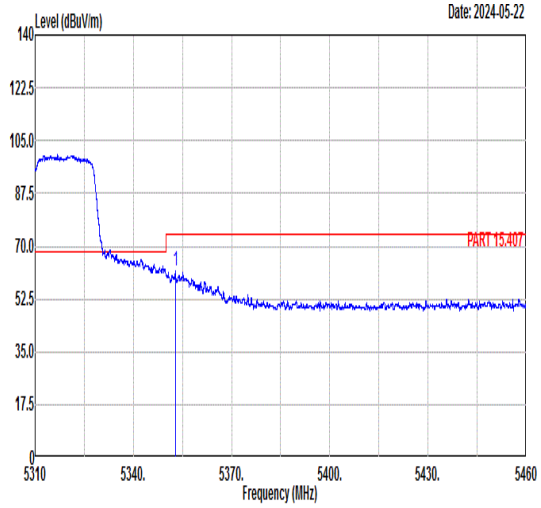
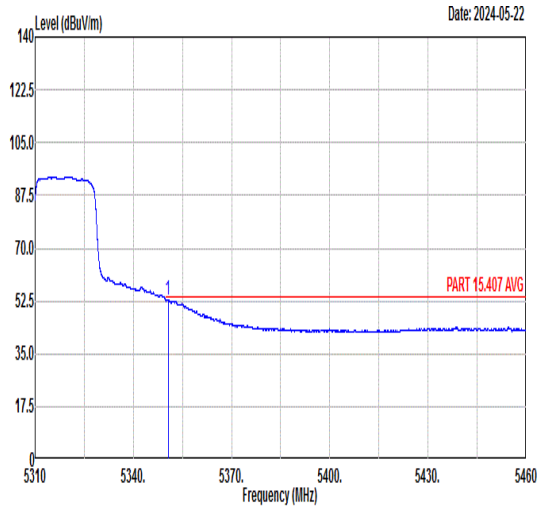
Mode	21	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5136.22 56.78 74.00 -17.22 42.58 34.87 11.09 31.76 209 58 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5270.00 105.70 ------ ------ 91.76 34.85 11.01 31.92 209 58 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5124.63 47.50 54.00 -6.50 33.27 34.88 11.10 31.75 209 58 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5270.00 99.20 ------ ------ 85.27 34.85 11.01 31.93 209 58 AVERAGE

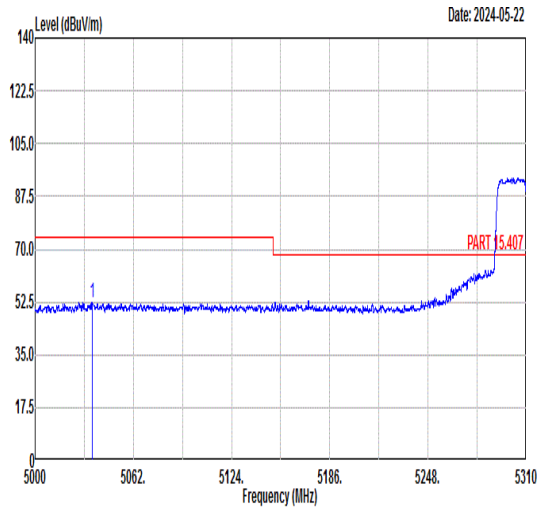
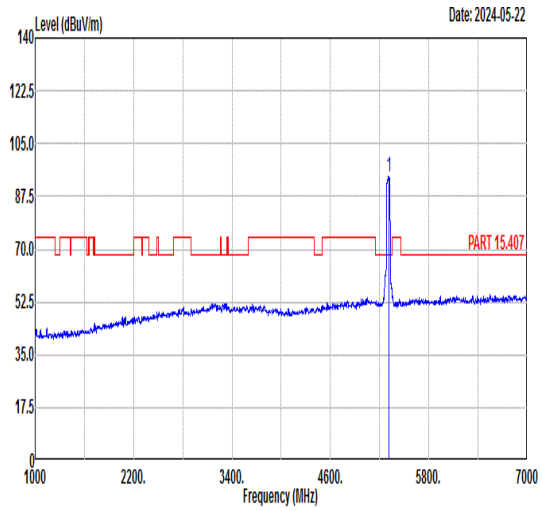
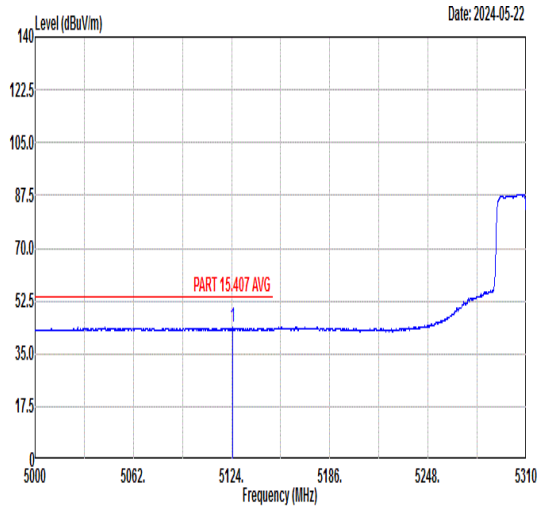
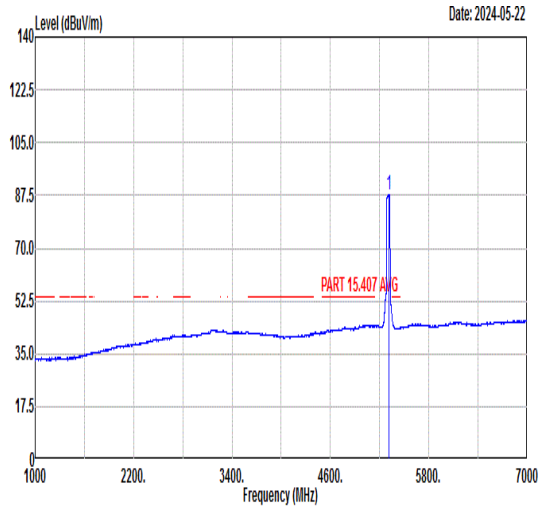
Mode	21	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5353.89 60.22 74.00 -13.78 46.48 34.83 10.94 32.03 209 58 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.29 50.37 54.00 -3.63 36.63 34.83 10.94 32.03 209 58 AVERAGE	Blank

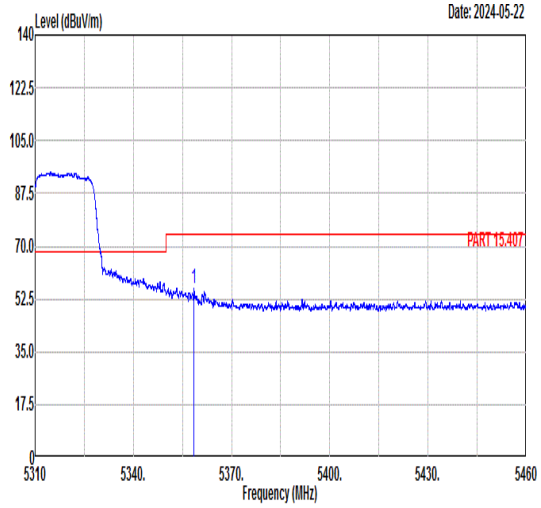
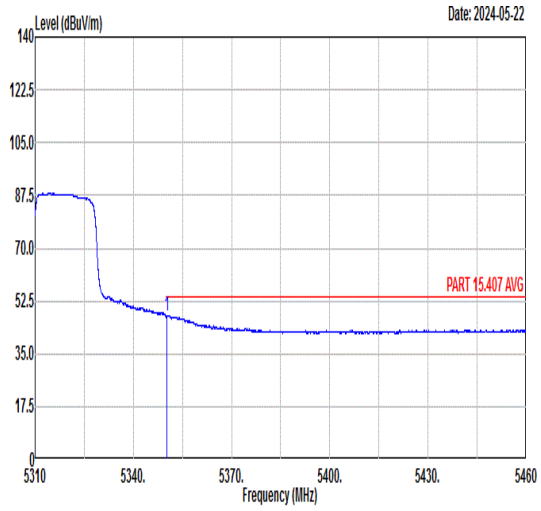
Mode	21	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5125.98 54.47 74.00 -19.53 40.25 34.87 11.10 31.75 239 169 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5270.00 101.50 ------ ------ 87.57 34.85 11.01 31.93 239 169 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5134.30 45.60 54.00 -8.40 31.40 34.87 11.09 31.76 239 169 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5270.00 95.47 ------ ------ 81.54 34.85 11.01 31.93 239 169 AVERAGE

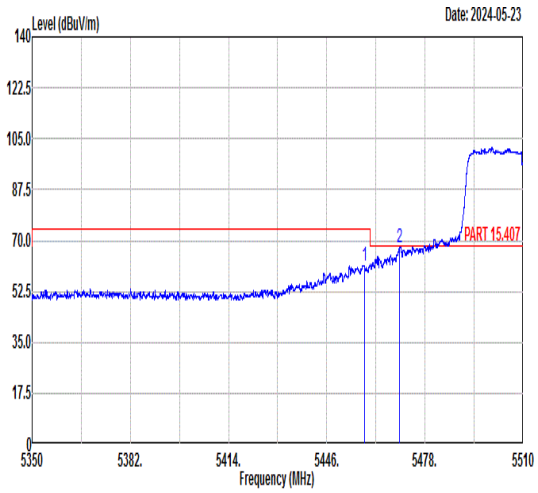
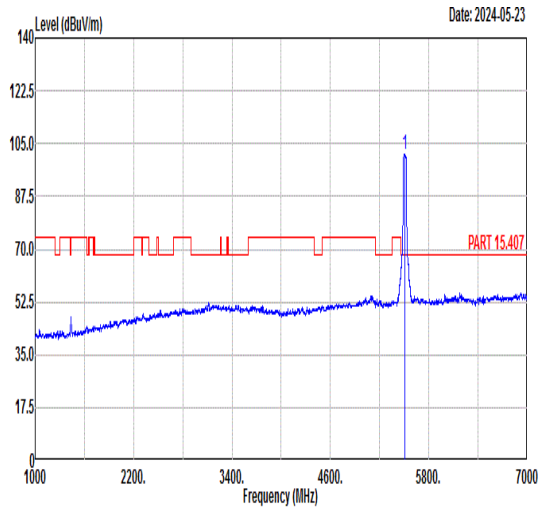
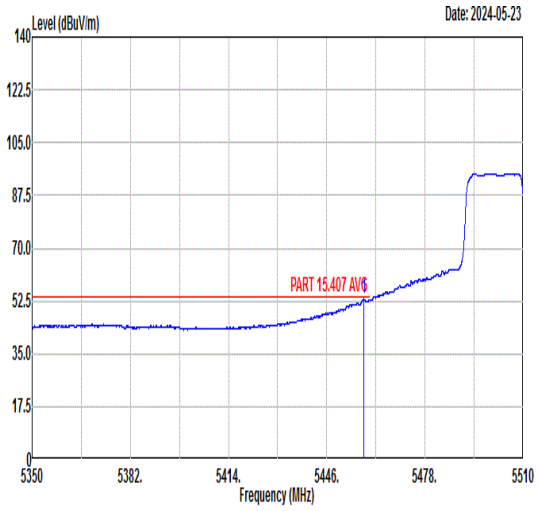
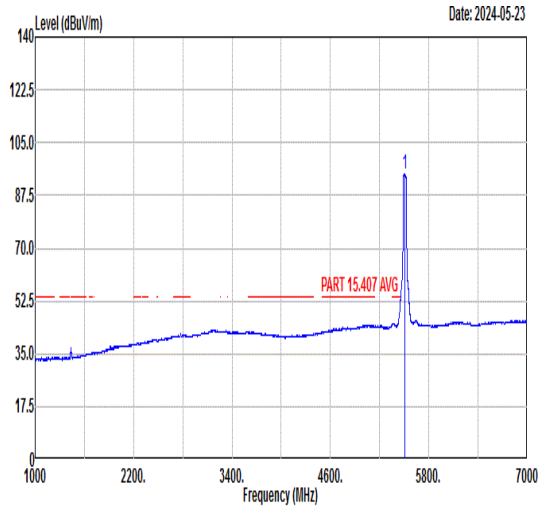
Mode	21	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.85 55.22 74.00 -18.78 41.48 34.83 10.94 32.03 239 169 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.09 46.29 54.00 -7.71 32.55 34.83 10.94 32.03 239 169 AVERAGE	Blank

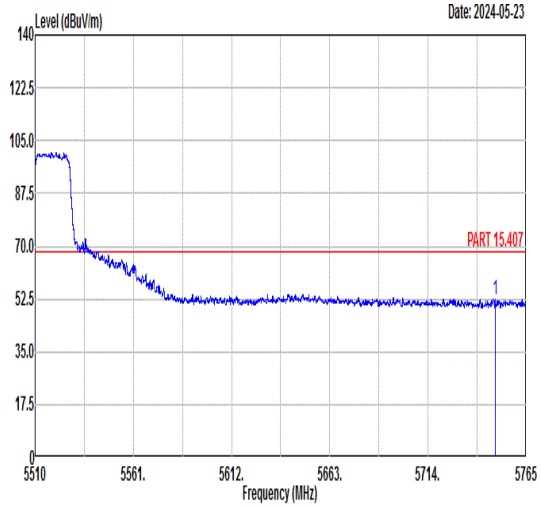
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5120.44 52.94 74.00 -21.06 38.70 34.88 11.10 31.74 208 56 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5310.00 100.00 ------ ------ 86.17 34.84 10.97 31.98 208 56 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5148.34 44.13 54.00 -9.87 29.95 34.87 11.09 31.78 208 56 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5310.00 93.37 ------ ------ 79.55 34.84 10.97 31.99 208 56 AVERAGE

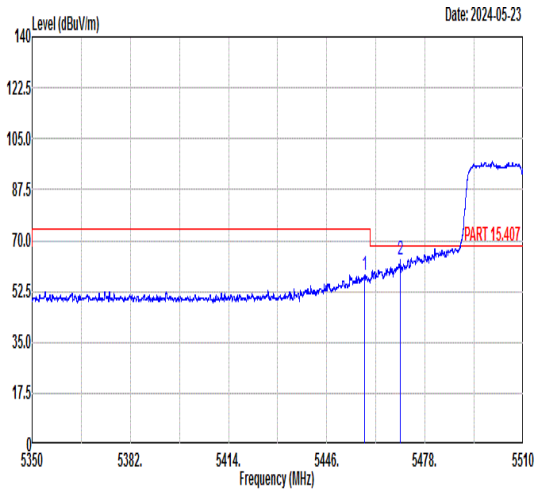
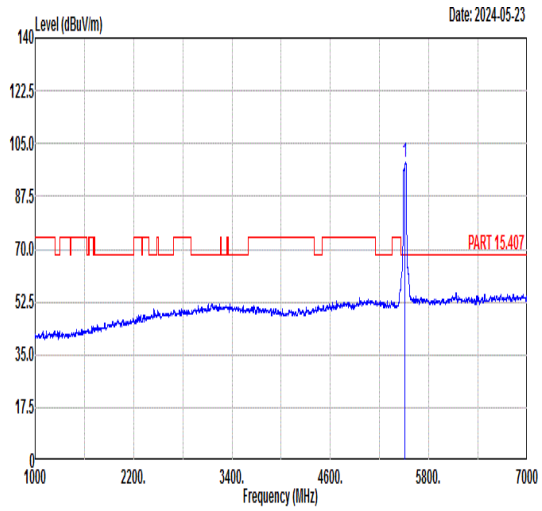
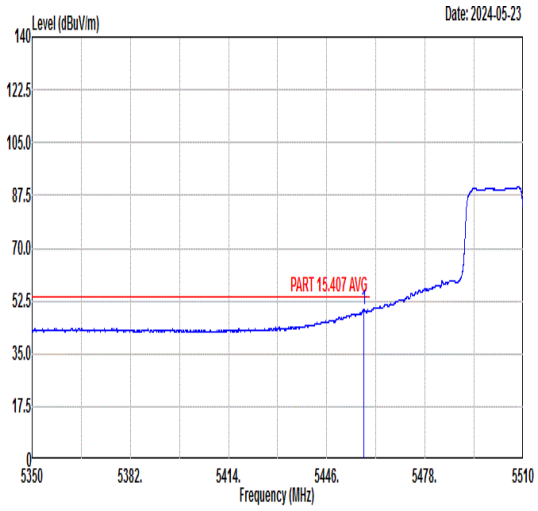
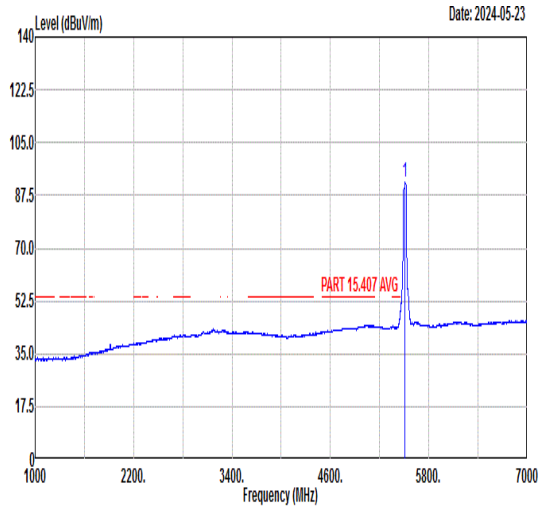
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5352.84 61.79 74.00 -12.21 48.05 34.83 10.94 32.03 208 56 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.59 52.97 54.00 -1.03 39.23 34.83 10.94 32.03 208 56 AVERAGE	Blank

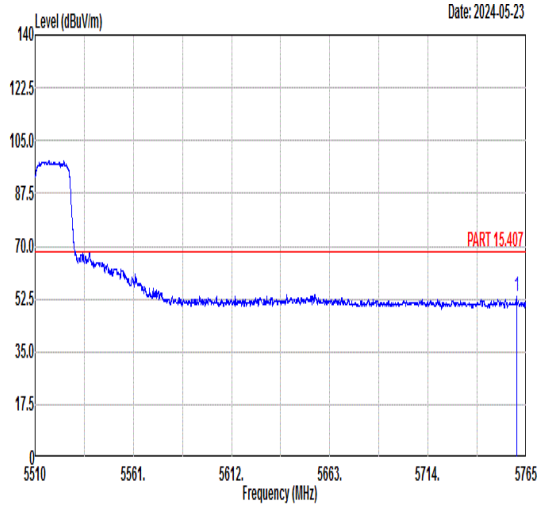
Mode	22	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5036.15 52.33 74.00 -21.67 37.93 34.89 11.15 31.64 238 167 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5310.00 93.99 ------ ------ 80.16 34.84 10.97 31.98 238 167 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5124.81 43.76 54.00 -10.24 29.53 34.88 11.10 31.75 238 167 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5310.00 87.89 ------ ------ 74.06 34.84 10.97 31.98 238 167 AVERAGE

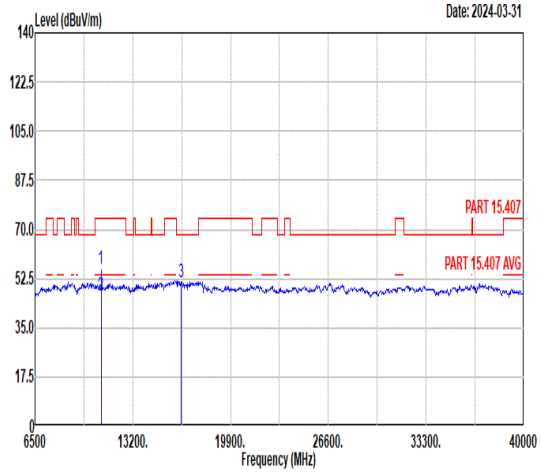
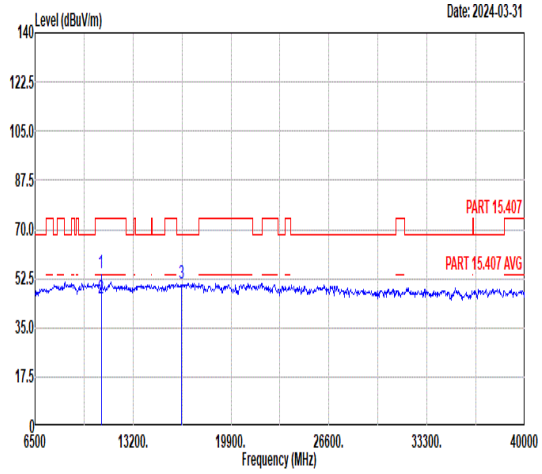
Mode	22	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5358.54 56.06 74.00 -17.94 42.33 34.83 10.94 32.04 238 167 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5350.29 47.40 54.00 -6.60 33.66 34.83 10.94 32.03 238 167 AVERAGE	Blank

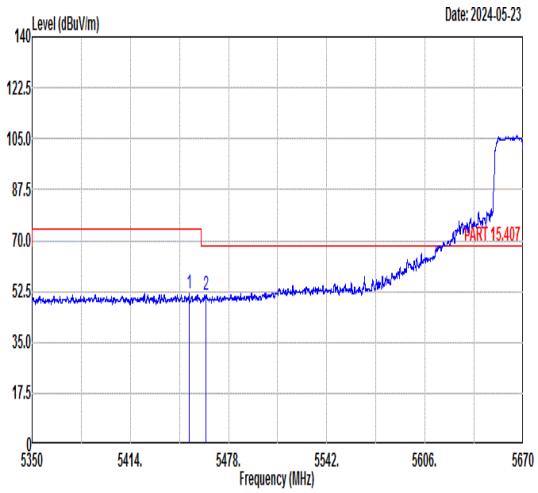
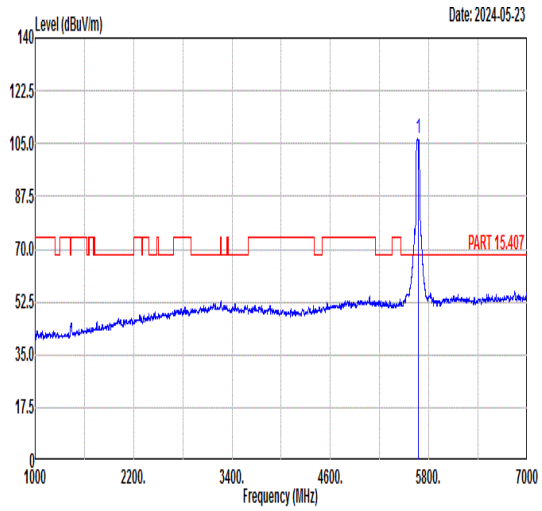
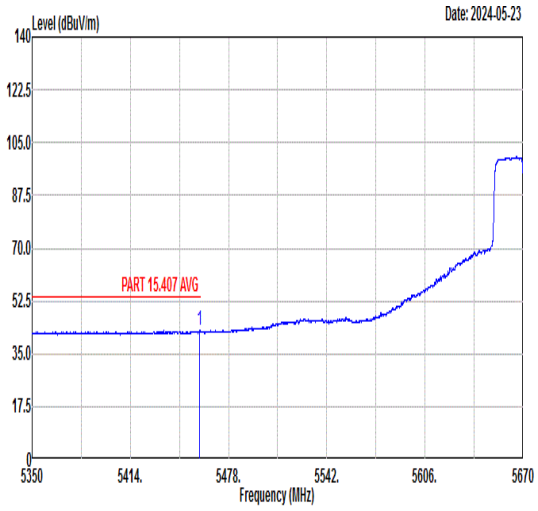
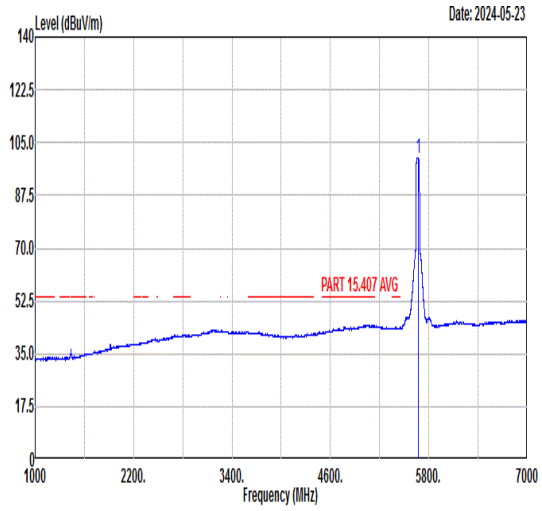
Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5458.26 61.43 74.00 -12.57 47.67 34.81 11.11 32.16 210 61 PEAK 2 5469.60 67.77 68.30 -0.53 53.98 34.81 11.16 32.18 210 61 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5510.00 101.48 ------ ------ 87.58 34.81 11.30 32.21 210 61 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5458.10 53.22 54.00 -0.78 39.46 34.81 11.11 32.16 210 61 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5510.00 94.57 ------ ------ 80.71 34.80 11.27 32.21 210 61 AVERAGE

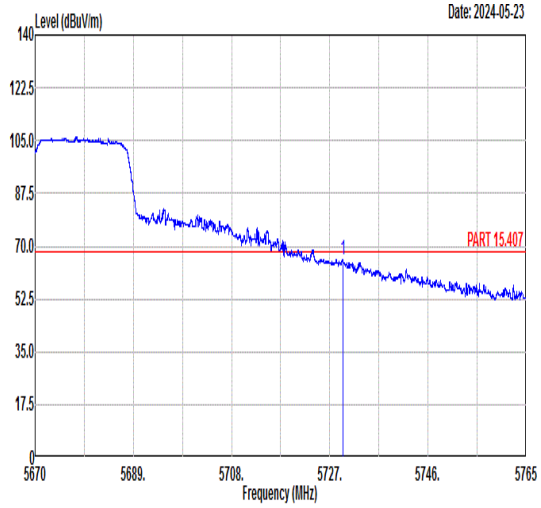
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5748.83 52.34 68.30 -15.96 37.95 35.15 11.64 32.40 210 61 PEAK	Blank

Mode	23	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.42 58.37 74.00 -15.63 44.61 34.81 11.11 32.16 224 167 PEAK 2 5469.92 63.22 68.30 -5.08 49.43 34.81 11.16 32.18 224 167 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5510.00 98.91 ------ ------ 84.94 34.83 11.37 32.23 224 167 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5458.10 49.76 54.00 -4.24 36.00 34.81 11.11 32.16 224 167 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5510.00 91.66 ------ ------ 77.75 34.81 11.32 32.22 224 167 AVERAGE

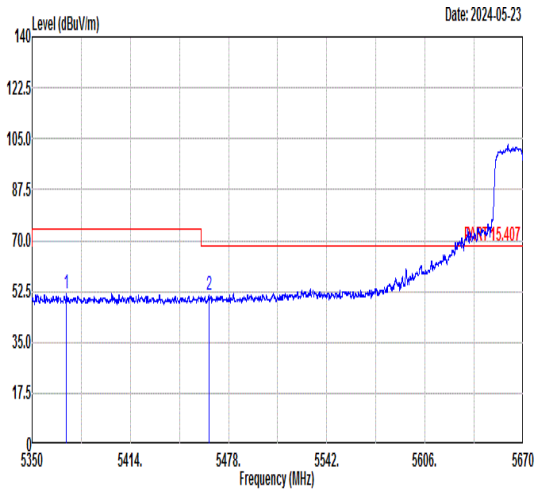
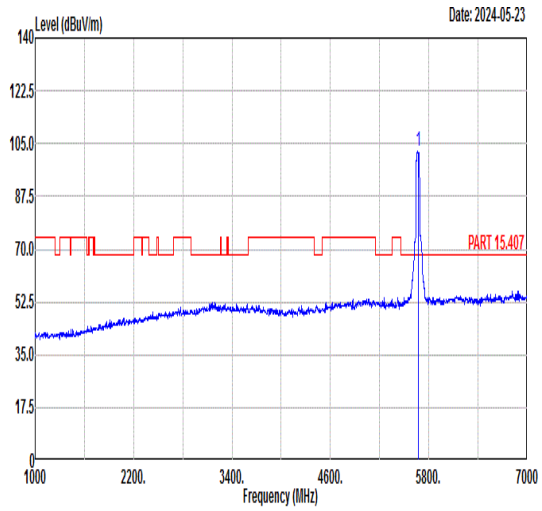
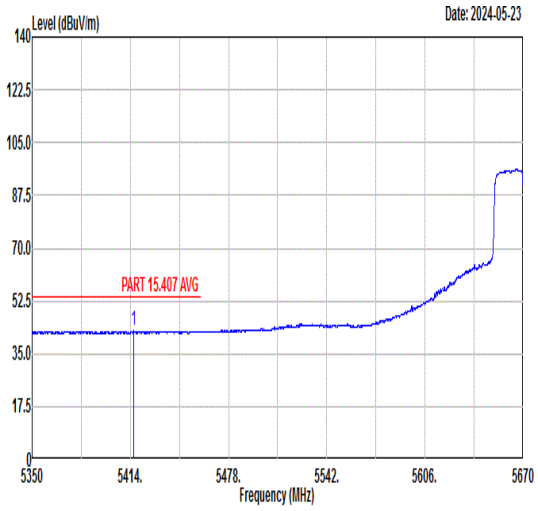
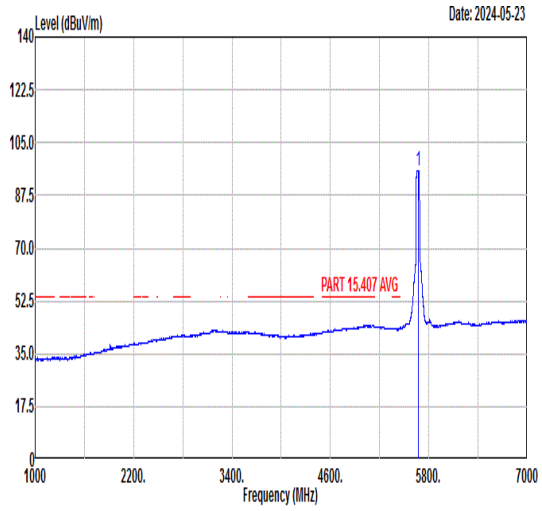
Mode	23	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5760.03 53.23 68.30 -15.07 38.84 35.16 11.64 32.41 224 167 PEAK	Blank

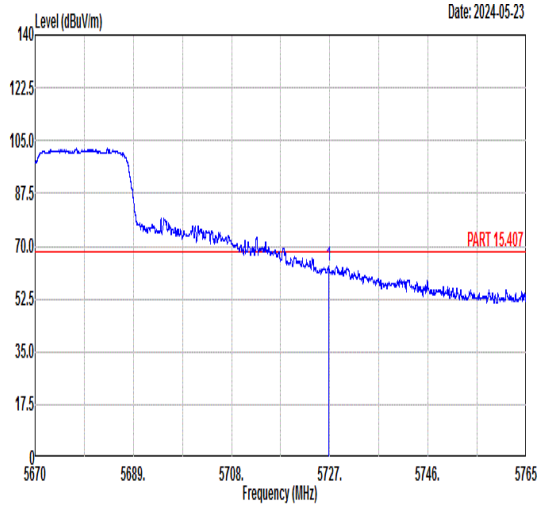
Mode	23	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz (only the worst mode shows above 18GHz)	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11020.00 55.76 74.00 -18.24 52.59 39.42 14.55 50.80 206 37 Peak 2 11020.00 46.52 54.00 -7.48 43.35 39.42 14.55 50.80 206 37 Average 3 16530.00 51.34 68.30 -16.96 43.35 42.41 17.37 51.79 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11020.00 54.51 74.00 -19.49 51.34 39.42 14.55 50.80 100 152 Peak 2 11020.00 45.52 54.00 -8.48 42.35 39.42 14.55 50.80 100 152 Average 3 16530.00 50.60 68.30 -17.70 42.61 42.41 17.37 51.79 -- -- Peak

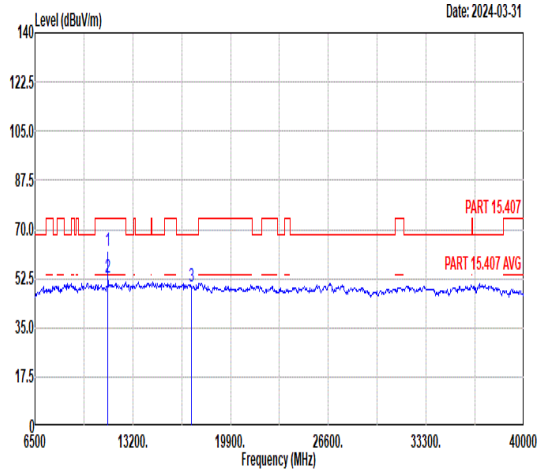
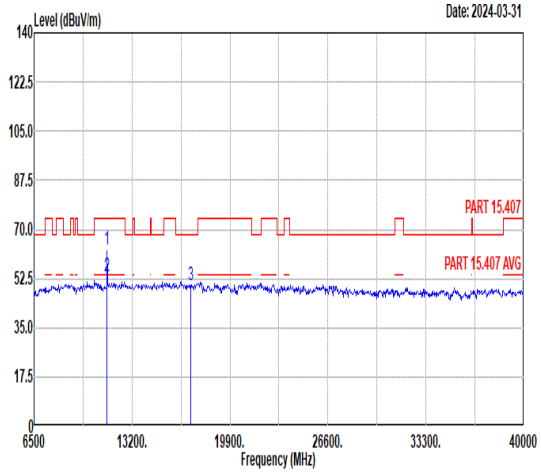
Mode	24	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5452.27 51.77 74.00 -22.23 38.03 34.81 11.09 32.16 199 64 PEAK 2 5463.47 51.47 68.30 -16.83 37.70 34.81 11.13 32.17 199 64 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 106.63 ------ ------ 92.26 35.02 11.68 32.33 199 64 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5459.31 42.66 54.00 -11.34 28.89 34.81 11.12 32.16 199 64 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 100.04 ------ ------ 85.67 35.03 11.68 32.34 199 64 AVERAGE

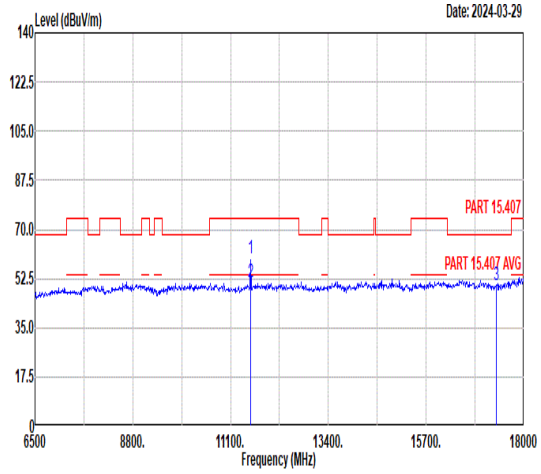
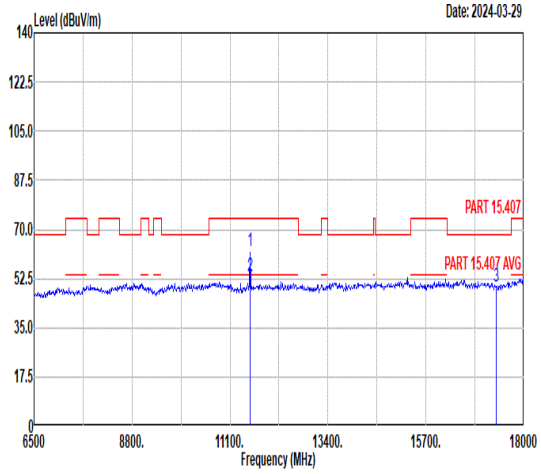
Mode	24	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5729.53 65.72 68.30 -2.58 51.34 35.12 11.65 32.39 199 64 PEAK	Blank

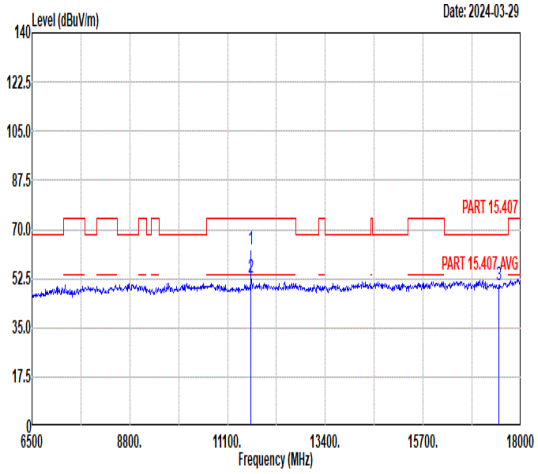
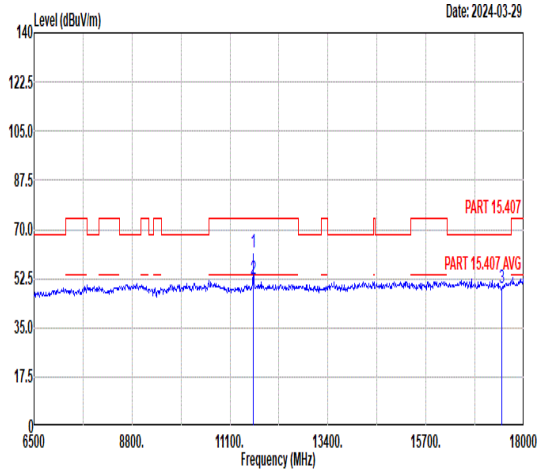
Mode	24
	Band Edge - L
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz
ANT	SISO

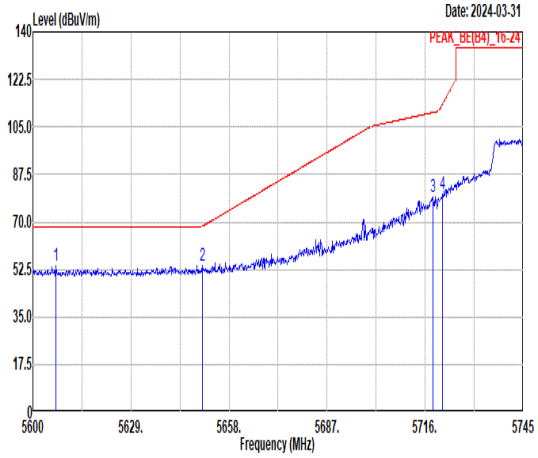
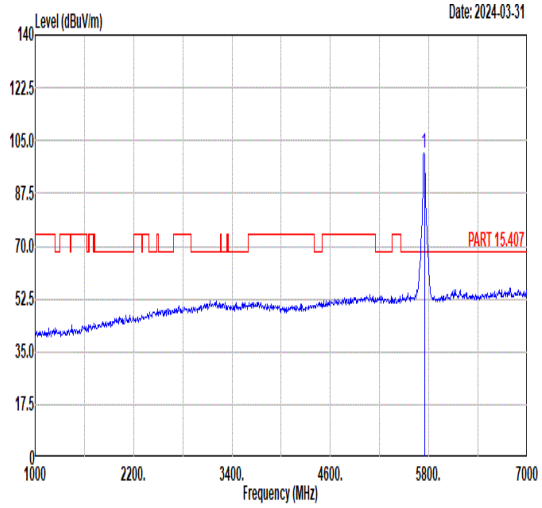
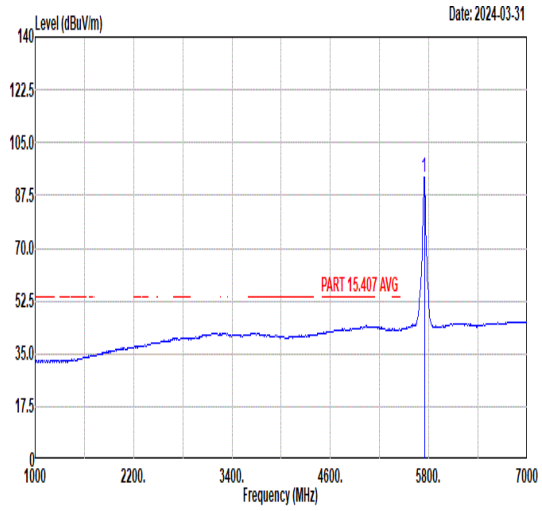
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5372.27 51.77 74.00 -22.23 38.07 34.83 10.93 32.06 231 164 PEAK 2 5465.07 51.11 68.30 -17.19 37.33 34.81 11.14 32.17 231 164 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 102.63 ------ ------ 88.26 35.02 11.68 32.33 231 164 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5416.11 42.55 54.00 -11.45 28.90 34.82 10.94 32.11 231 164 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 95.85 ------ ------ 81.48 35.03 11.68 32.34 231 164 AVERAGE

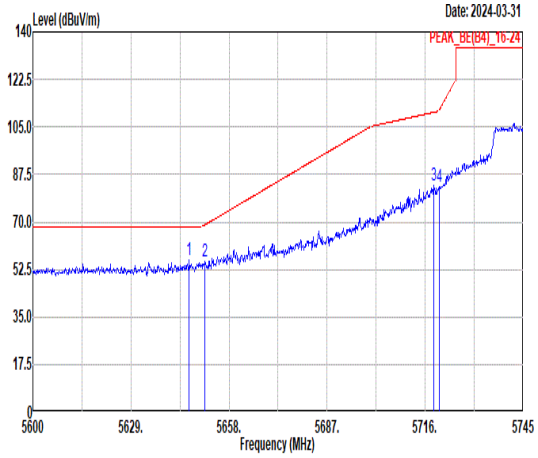
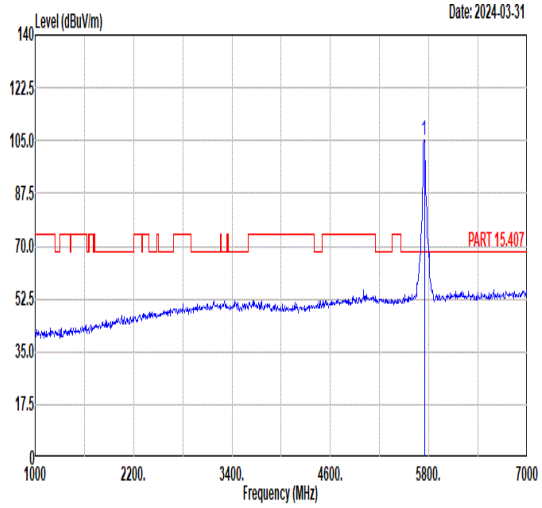
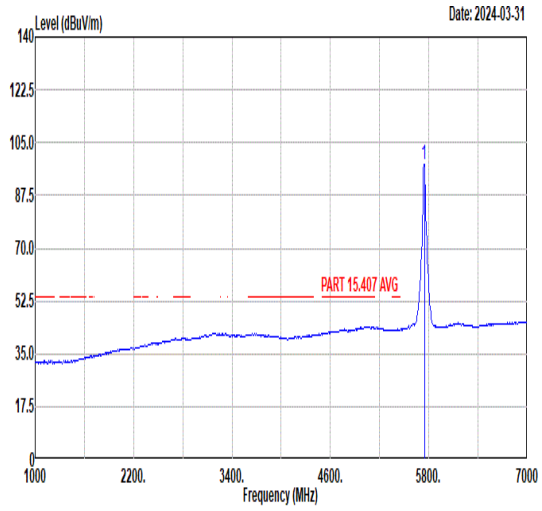
Mode	24	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.77 63.45 68.30 -4.85 49.07 35.12 11.65 32.39 231 164 PEAK	Blank

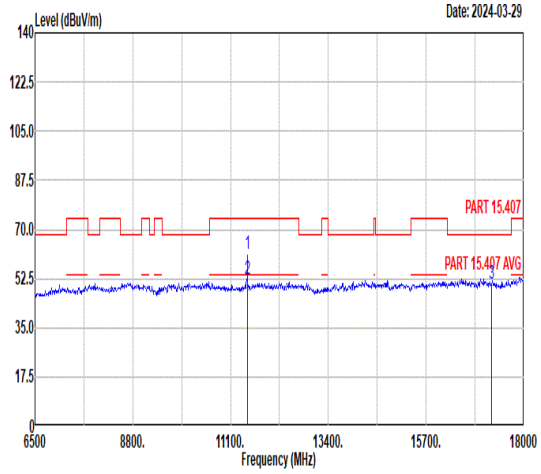
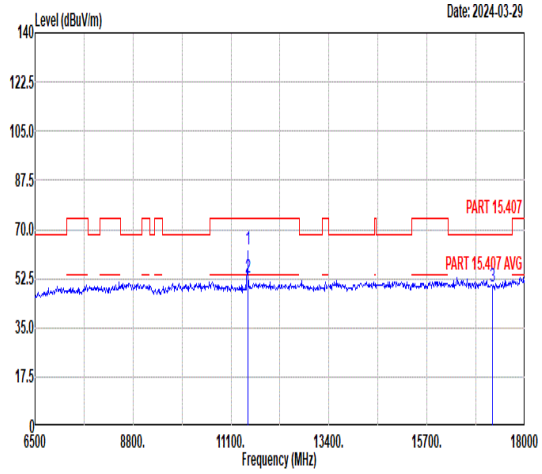
Mode	25	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz (only the worst mode shows above 18GHz)	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11490.00 62.35 74.00 -11.65 58.43 39.79 14.83 50.70 201 60 Peak 2 11490.00 52.81 54.00 -1.19 48.89 39.79 14.83 50.70 201 60 Average 3 17235.00 49.68 68.30 -18.62 41.63 42.41 17.57 51.93 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11490.00 62.91 74.00 -11.09 58.99 39.79 14.83 50.70 155 353 Peak 2 11490.00 53.29 54.00 -0.71 49.37 39.79 14.83 50.70 155 353 Average 3 17235.00 50.37 68.30 -17.93 42.32 42.41 17.57 51.93 -- -- Peak

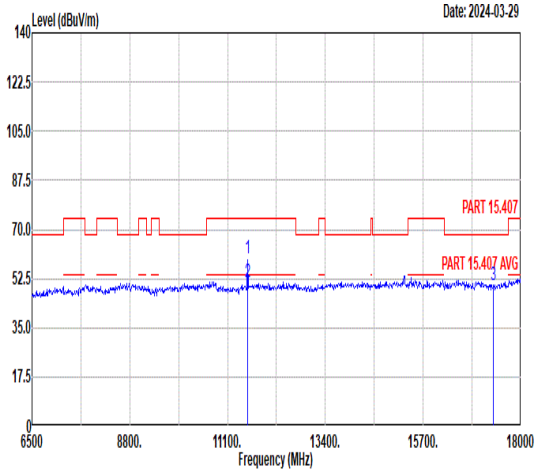
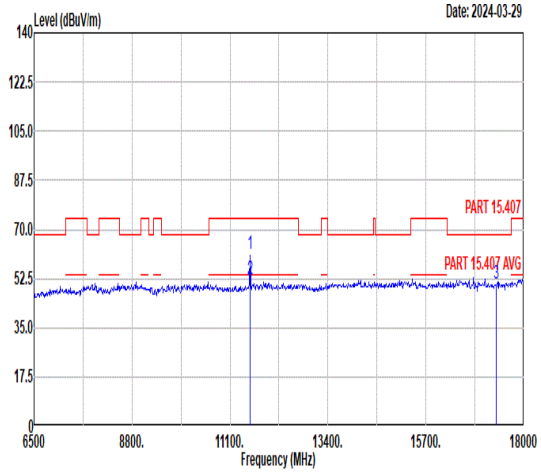
Mode	26	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11570.00 59.52 74.00 -14.48 55.44 39.86 14.88 50.66 202 62 Peak 2 11570.00 51.24 54.00 -2.76 47.16 39.86 14.88 50.66 202 62 Average 3 17355.00 50.12 68.30 -18.18 42.21 42.36 17.60 52.05 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11570.00 62.15 74.00 -11.85 58.07 39.86 14.88 50.66 194 353 Peak 2 11570.00 53.16 54.00 -0.84 49.08 39.86 14.88 50.66 194 353 Average 3 17355.00 49.82 68.30 -18.48 41.91 42.36 17.60 52.05 -- -- Peak

Mode	27	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11650.00 62.92 74.00 -11.08 58.68 39.92 14.93 50.61 100 12 Peak 2 11650.00 52.91 54.00 -1.09 48.67 39.92 14.93 50.61 100 12 Average 3 17475.00 50.19 68.30 -18.11 42.42 42.31 17.63 52.17 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11650.00 61.77 74.00 -12.23 57.53 39.92 14.93 50.61 158 354 Peak 2 11650.00 52.17 54.00 -1.83 47.93 39.92 14.93 50.61 158 354 Average 3 17475.00 49.38 68.30 -18.92 41.61 42.31 17.63 52.17 -- -- Peak

Mode	28	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5606.82 53.70 68.30 -14.60 39.33 34.95 11.71 32.29 208 151 PEAK 2 5650.03 54.05 68.32 -14.27 39.68 35.01 11.69 32.33 208 151 PEAK 3 5718.32 79.38 110.33 -30.95 64.99 35.11 11.66 32.38 208 151 PEAK 4 5721.08 80.16 113.25 -33.09 65.77 35.11 11.66 32.38 208 151 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5745.00 101.03 ------ ------ 86.64 35.14 11.65 32.40 208 151 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5745.00 93.60 ------ ------ 79.22 35.14 11.64 32.40 208 151 AVERAGE

Mode	28	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5646.26 55.81 68.30 -12.49 41.44 35.00 11.69 32.32 200 43 PEAK 2 5650.90 55.60 68.96 -13.36 41.23 35.01 11.69 32.33 200 43 PEAK 3 5718.47 83.41 110.37 -26.96 69.02 35.11 11.66 32.38 200 43 PEAK 4 5720.21 82.87 111.27 -28.40 68.48 35.11 11.66 32.38 200 43 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5745.00 105.37 ------ ------ 90.98 35.14 11.65 32.40 200 43 PEAK
Avg	Blank	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5745.00 97.92 ------ ------ 83.53 35.14 11.65 32.40 200 43 AVERAGE

Mode	28	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11490.00 61.20 74.00 -12.80 57.28 39.79 14.83 50.70 201 61 Peak 2 11490.00 52.53 54.00 -1.47 48.61 39.79 14.83 50.70 201 61 Average 3 17235.00 50.58 68.30 -17.72 42.53 42.41 17.57 51.93 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11490.00 62.61 74.00 -11.39 58.69 39.79 14.83 50.70 204 353 Peak 2 11490.00 52.87 54.00 -1.13 48.95 39.79 14.83 50.70 204 353 Average 3 17235.00 49.73 68.30 -18.57 41.68 42.41 17.57 51.93 -- -- Peak

Mode	29	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11570.00 59.88 74.00 -14.12 55.80 39.86 14.88 50.66 201 61 Peak 2 11570.00 51.09 54.00 -2.91 47.01 39.86 14.88 50.66 201 61 Average 3 17355.00 50.33 68.30 -17.97 42.42 42.36 17.60 52.05 -- -- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11570.00 61.50 74.00 -12.50 57.42 39.86 14.88 50.66 185 353 Peak 2 11570.00 52.14 54.00 -1.86 48.06 39.86 14.88 50.66 185 353 Average 3 17355.00 50.69 68.30 -17.61 42.78 42.36 17.60 52.05 -- -- Peak