FCC RF Test Report

APPLICANT	:	Luxottica Group S.p.A.
EQUIPMENT	:	SMART GLASSES
BRAND NAME	:	Ray-Ban Meta or Ray-Ban
MODEL NAME	:	RW4006, RW4008, RW4009
FCC ID	:	2AYOA-4003
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	May 08, 2023 ~ Jun. 12, 2023

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR272102-02D	Rev. 01	Initial issue of report	Jul. 03, 2023
FR272102-02D	Rev. 02	Update Equipment name, Brand name and address of Applicant & Manufacturer	Jul. 26, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 2.68 dB at 5355.96 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 19.60 dB at 0.21 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	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

Luxottica Group S.p.A.
Piazzale Cadorna 3 20123 Milan, Italy

1.2 Manufacturer

Luxottica Group S.p.A.
Piazzale Cadorna 3 20123 Milan, Italy

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	SMART GLASSES
Brand Name	Ray-Ban Meta or Ray-Ban
Model Name	RW4006, RW4008, RW4009
FCC ID	2AYOA-4003
SN Code	Conducted: 2Q37B1WF3J003B Conduction: 2Q37B1WF3J006G Radiation: 2Q37B1WF3J002Z
HW Version	EVT2
SW Version	12/SQ3A. 220605. 009. A1/49757590052300100:userdebug/test-keys
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are three types of EUT: Sample 1(RW4006), Sample 2(RW4008) and Sample 3(RW4009). The manufacturer declares that they share the same radio characteristics and Software/Firmware, the differences between each of them are color of lenses and size of frames which certainly do not affect the test results. Therefore, the test is mainly performed with the Sample 1.
3. The device has four power states, the power state C is the highest output power, thus RF report only test power state C with the highest output power.
4. Under power state C, RSE pretest the “glass in charging case” and “glass stand alone” mode, use the worst mode “glass stand alone” to perform final RSE test.

Power State	Exposure Condition
A	Face-Worn
	Rest-on-Head
B	Rest-on-Shirt
	Pocketing
C	Pocketing/handheld (in Charging Case)
D	Free Space/Off Body

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 ~ 5720 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 16.62 dBm / 0.0459 W 802.11n HT20 : 16.66 dBm / 0.0463 W 802.11n HT40 : 16.82 dBm / 0.0481 W 802.11ac VHT20: 16.63 dBm / 0.0460 W 802.11ac VHT40: 16.78 dBm / 0.0476 W 802.11ac VHT80: 13.01 dBm / 0.0200 W 802.11ac VHT160: 13.52 dBm / 0.0225 W 802.11ax HE20: 16.69 dBm / 0.0467 W 802.11ax HE40: 16.85 dBm / 0.0484 W 802.11ax HE80: 13.06 dBm / 0.0202 W 802.11ax HE160: 13.56 dBm / 0.0227 W **<5260 MHz ~ 5320 MHz>** 802.11a : 16.58 dBm / 0.0455 W 802.11n HT20 : 16.64 dBm / 0.0461 W 802.11n HT40 : 17.27 dBm / 0.0533 W 802.11ac VHT20: 16.61 dBm / 0.0458 W 802.11ac VHT40: 17.23 dBm / 0.0528 W 802.11ac VHT80: 14.66 dBm / 0.0292 W 802.11ax HE20: 16.67 dBm / 0.0465 W 802.11ax HE40: 17.30 dBm / 0.0537 W 802.11ax HE80: 14.71 dBm / 0.0296 W **<5500 MHz ~ 5720 MHz>** 802.11a : 16.60 dBm / 0.0457 W 802.11n HT20 : 16.66 dBm / 0.0463 W 802.11n HT40 : 17.26 dBm / 0.0532 W 802.11ac VHT20: 16.63 dBm / 0.0460 W 802.11ac VHT40: 17.22 dBm / 0.0527 W 802.11ac VHT80: 17.05 dBm / 0.0507 W 802.11ac VHT160: 14.44 dBm / 0.0278 W 802.11ax HE20: 16.69 dBm / 0.0467 W 802.11ax HE40: 17.29 dBm / 0.0536 W 802.11ax HE80: 17.10 dBm / 0.0513 W 802.11ax HE160: 14.48 dBm / 0.0281 W
99% Occupied Bandwidth	**<5180 MHz ~ 5250 MHz>** 802.11a : 17.63 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 78.00 MHz 802.11ax HE160: 157.60 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.53 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 78.00 MHz **<5500 MHz ~ 5720 MHz>** 802.11a : 17.58 MHz 802.11ax HE20: 19.23 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 78.00 MHz

	802.11ax HE160: 156.96 MHz
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** Inverted-F and folded monopole Antenna with gain 1.2 dBi **<5260 MHz ~ 5320 MHz>** Inverted-F and folded monopole Antenna with gain 1.7 dBi **<5500 MHz ~ 5720 MHz>** Inverted-F and folded monopole Antenna with gain 3.9 dBi
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Note:

1. For 802.11n / 11ac / 11ax mode, the whole testing has assessed 802.11ax HE20 / HE40 / HE80 / HE160 by referring to the higher output power.
2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are full tested for conducted Power/PSD/Spurious/Bandedge.
3. The device does not support 802.11ax channel puncture mode.

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 China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-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) 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	50[2]	5250

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500- 5720 MHz U-NII-2C	100	5500	114[2]	5570
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560	-	-

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

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

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel in "2" were 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

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

Modulation	Data Rate
802.11a	**6 Mbps**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**
802.11ax HE160	**MCS0**

RSE co-location mode
BLE(2M) CH39 + 802.11ax HE80 CH58

Test Cases	
AC Conducted Emission	Mode 1 : BT Link (Connect to phone) + WLAN (5G) Link + EUT into Charging case (Ray-Ban Meta) + Ray-Ban Meta -Type C with Adapter (Charging from Adapter) for Sample 1

Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

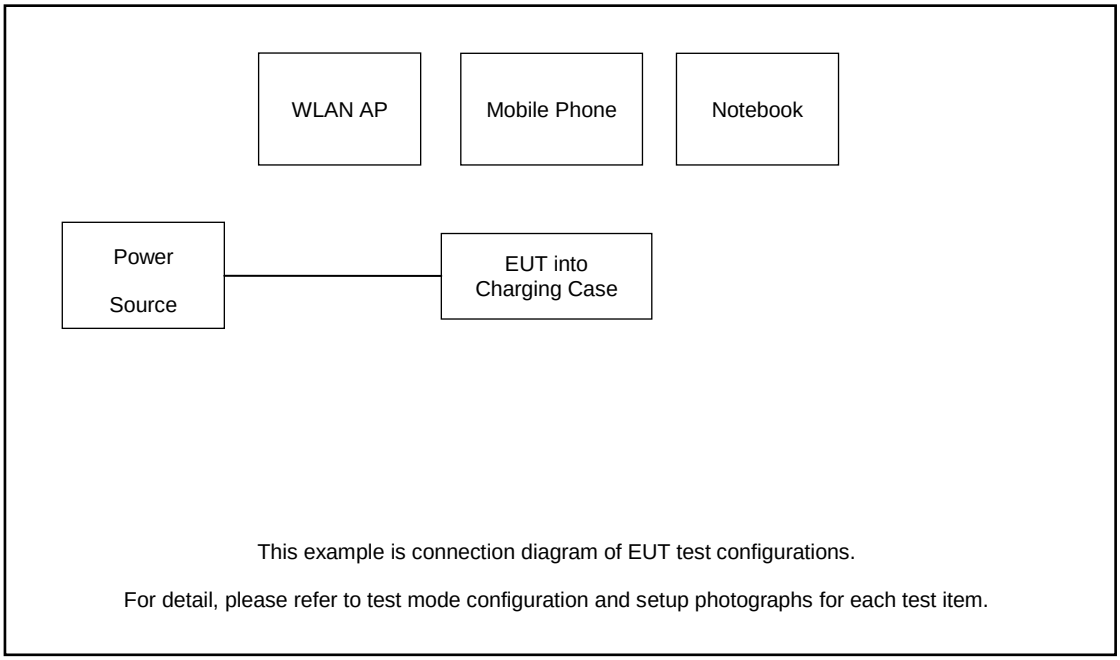
Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

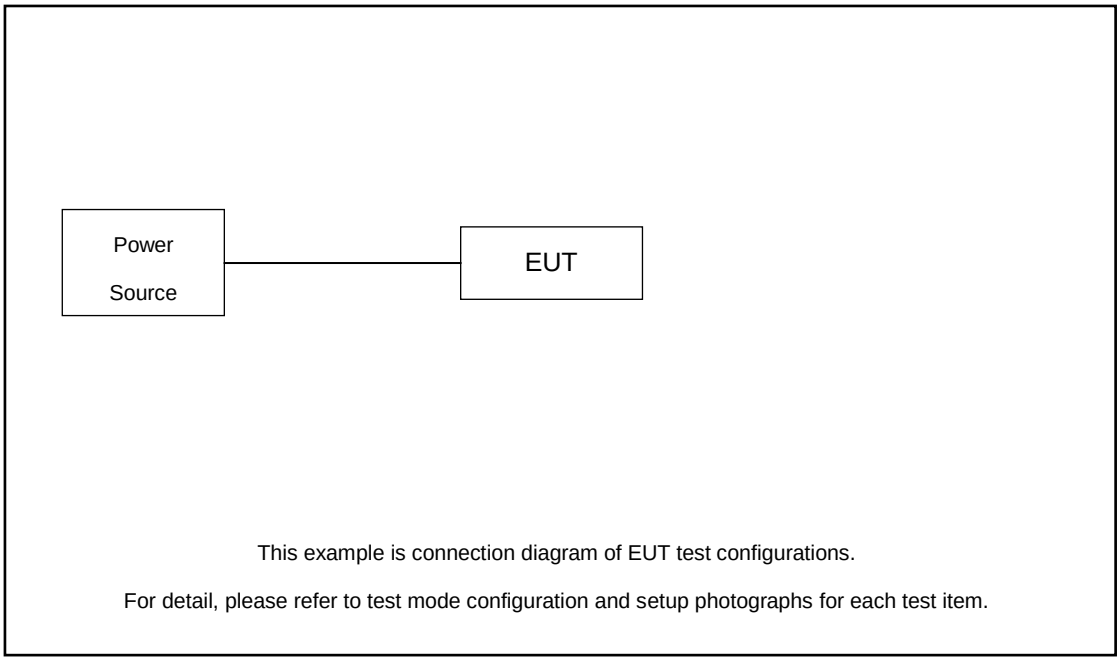
Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		802.11ax HE160	802.11ax HE160	802.11ax HE160
M	Middle	50		114

2.3 Connection Diagram of Test System

For Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
2.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Mobile Phone	Oneplus	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	DC Power Supply	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 3.4 dB and 20dB attenuator.

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

= 3.4 + 20 = 23.4 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

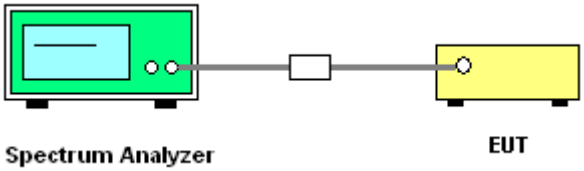
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

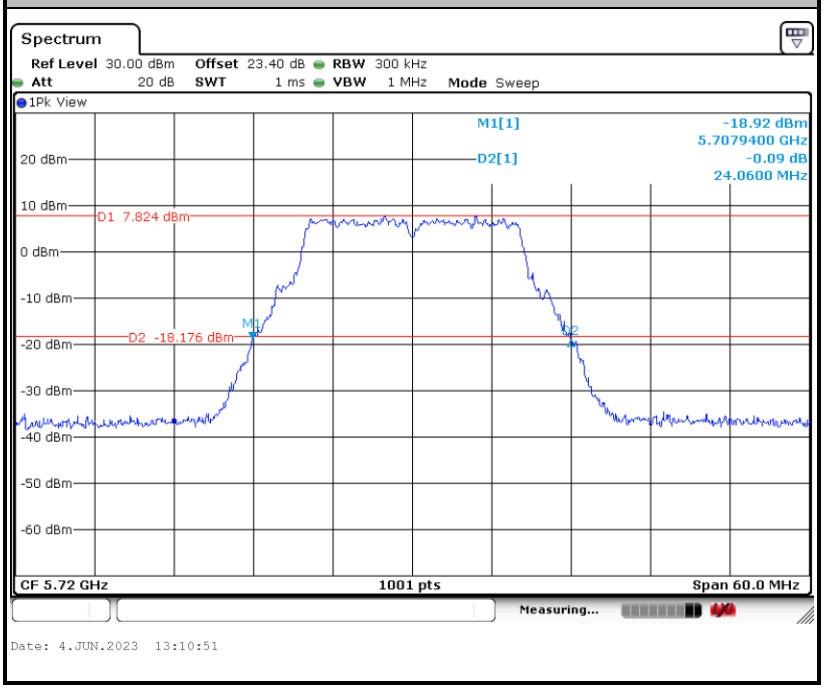
3.1.4 Test Setup



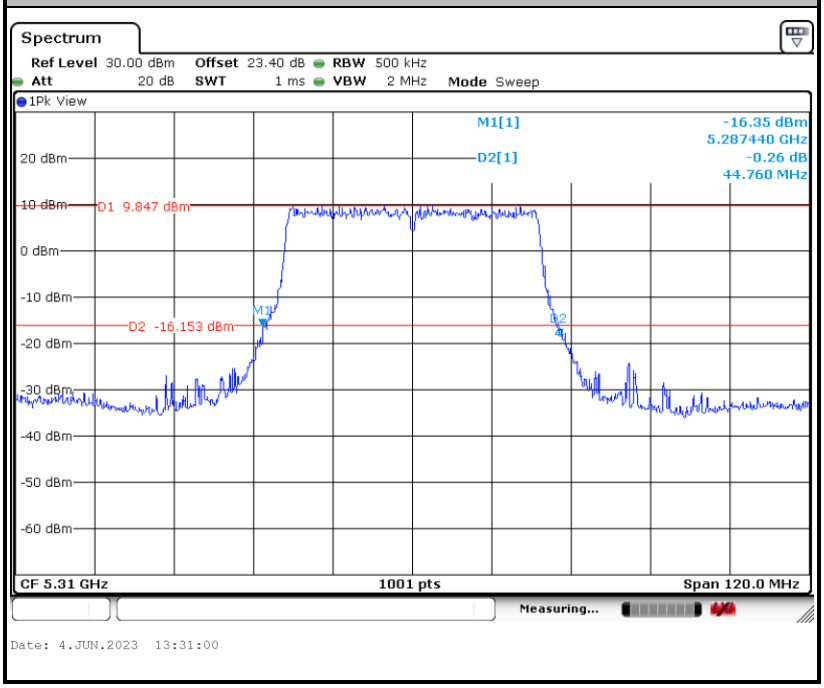
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

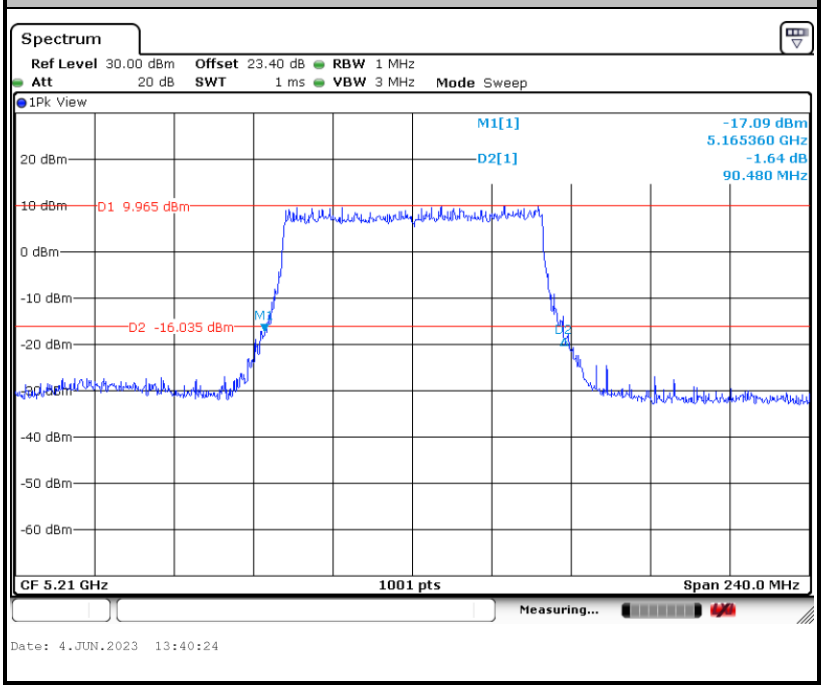
Maximum 26dB Bandwidth for 20M BW



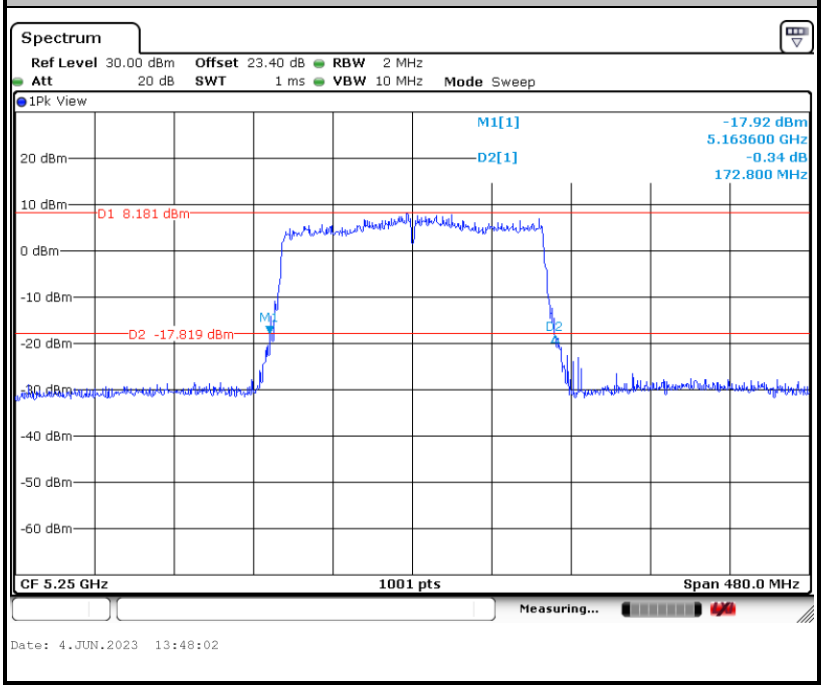
Maximum 26dB Bandwidth for 40M BW



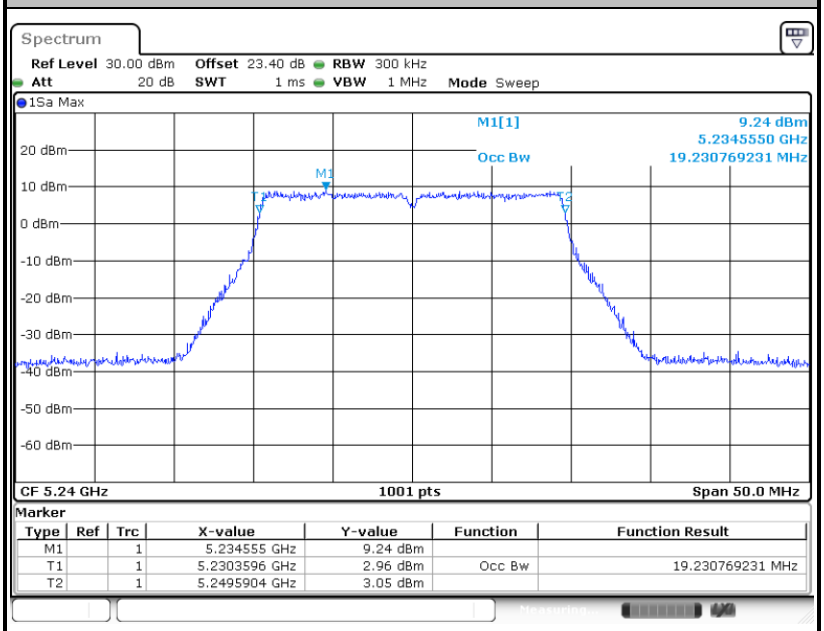
Maximum 26dB Bandwidth for 80M BW



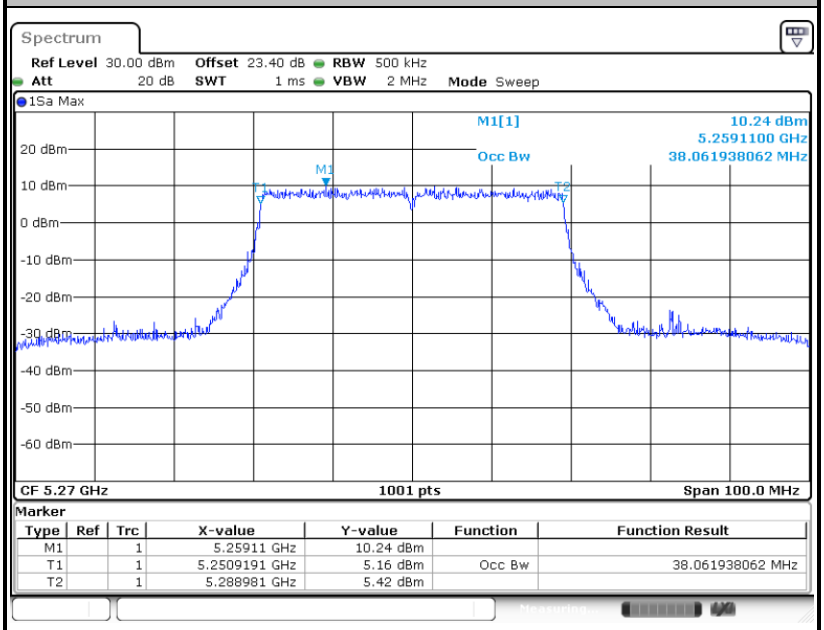
Maximum 26dB Bandwidth for 160M BW



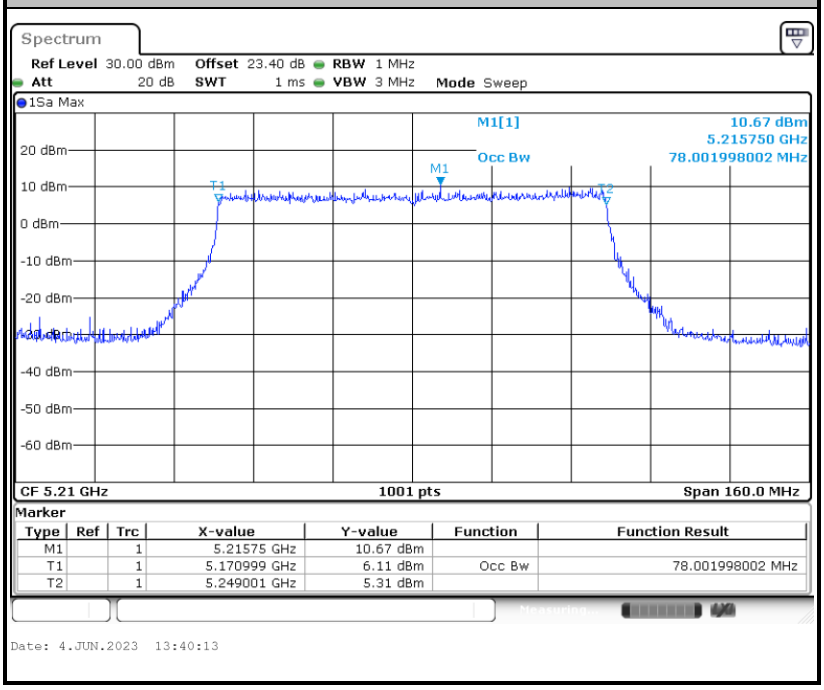
Maximum 99% Occupied Bandwidth for 20M BW



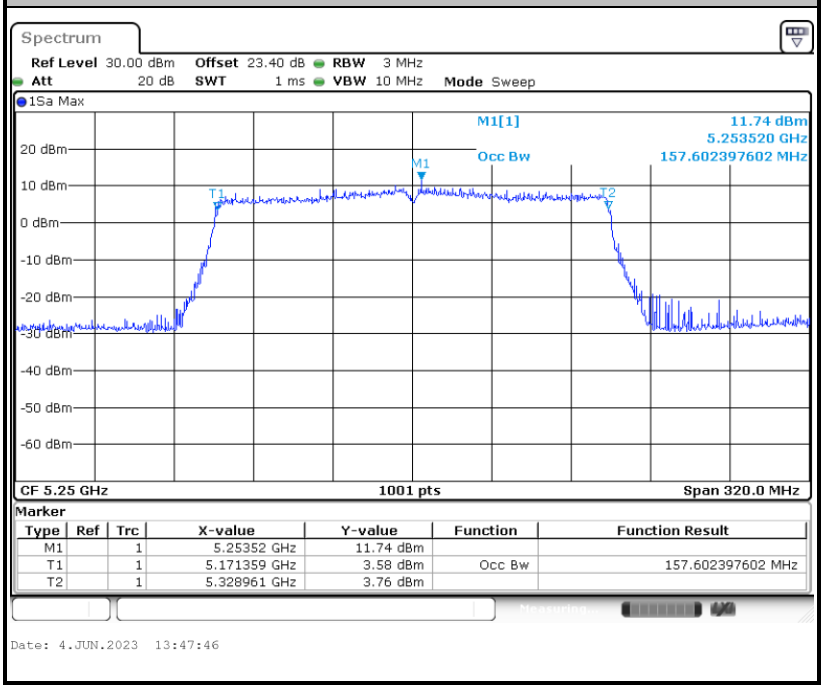
Maximum 99% Occupied Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 80M BW



Maximum 99% Occupied Bandwidth for 160M 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 Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

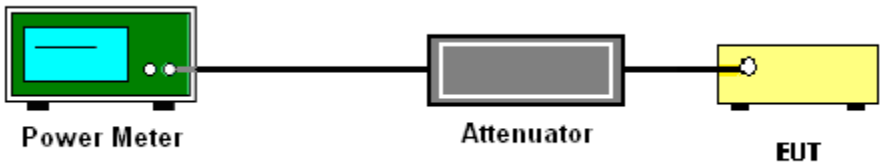
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

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

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

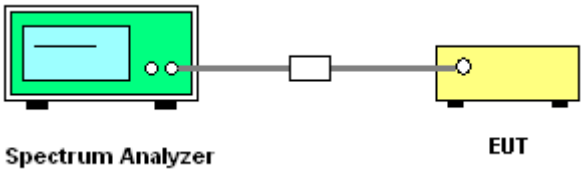
 # Method SA-2 #

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

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

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

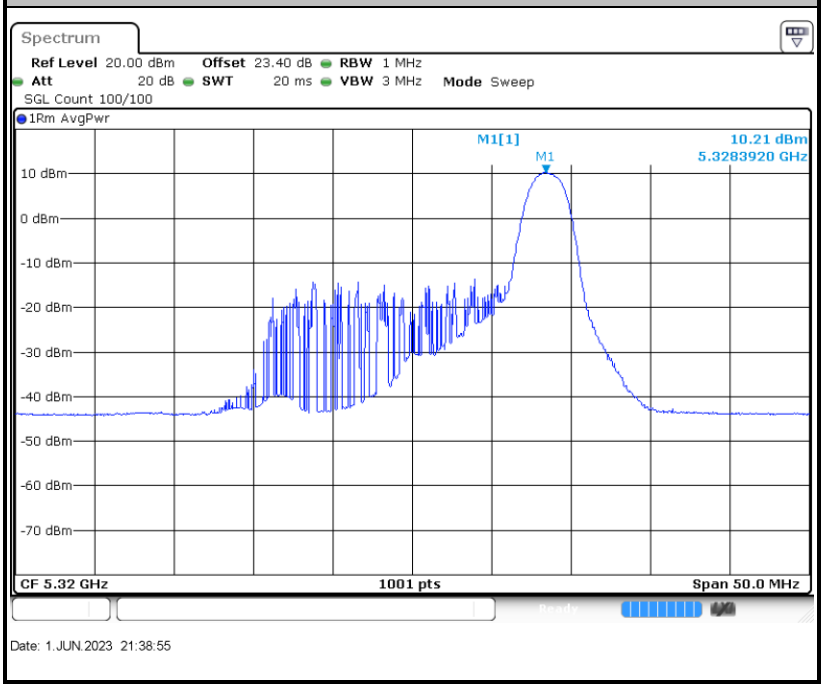
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

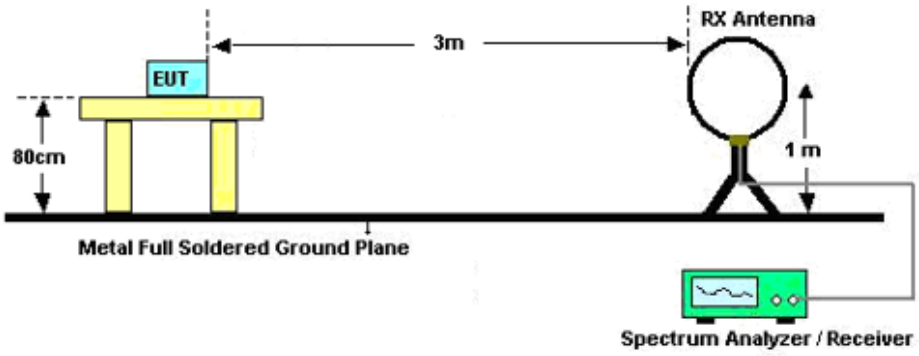
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

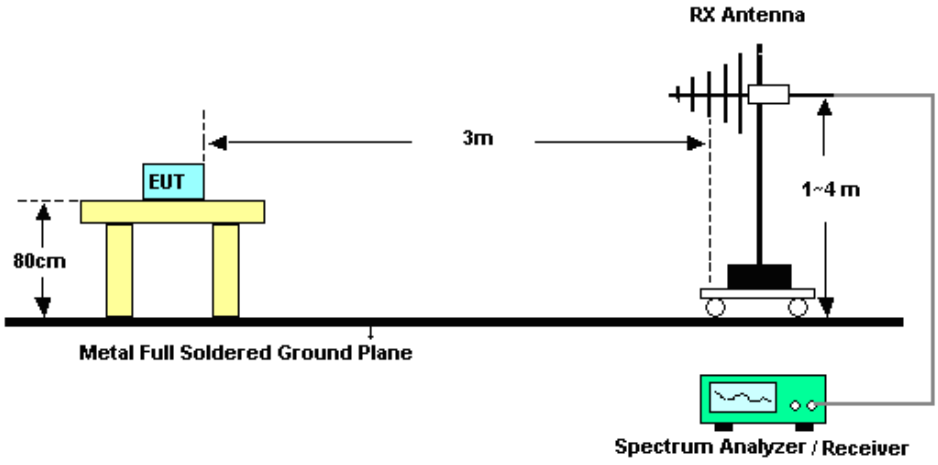
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

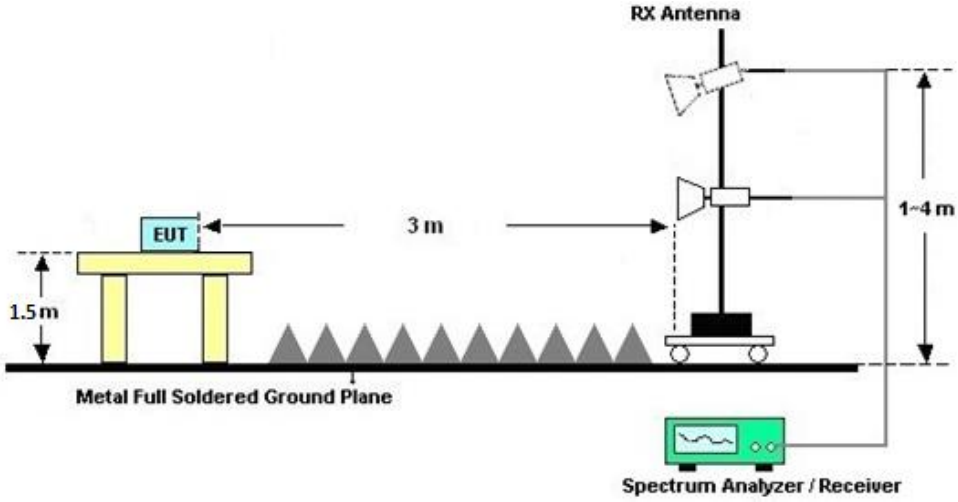
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

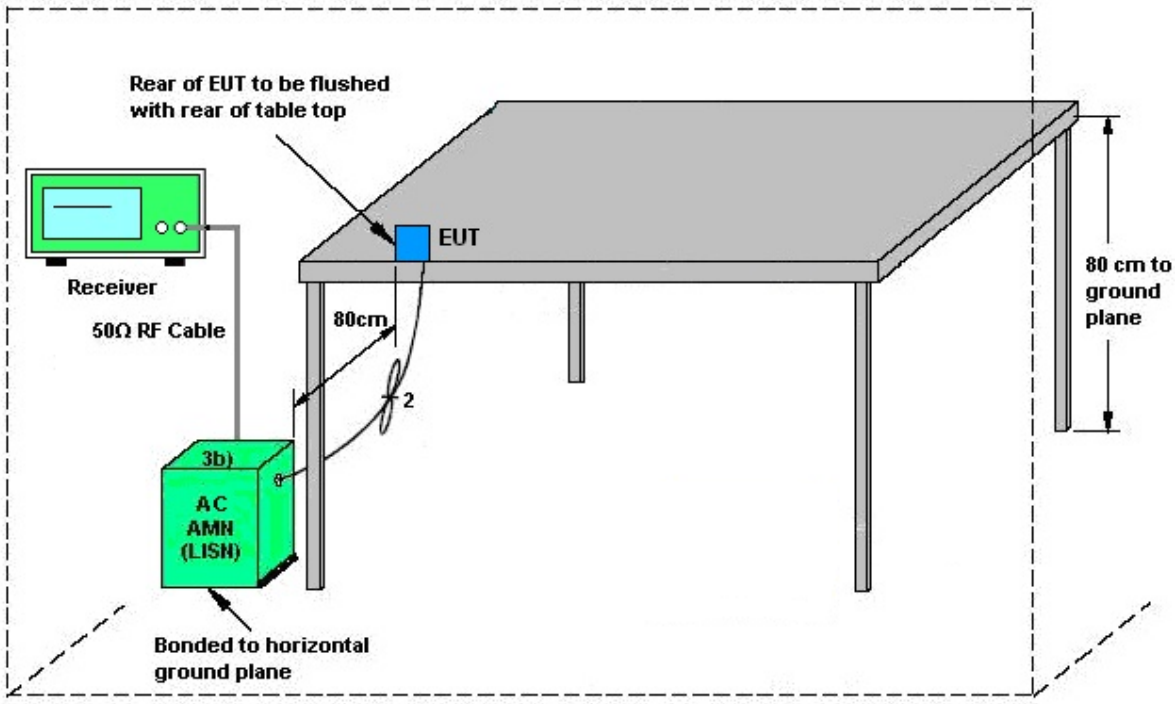
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Jun. 01, 2023~ Jun. 04, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Jun. 01, 2023~ Jun. 04, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Jun. 01, 2023~ Jun. 04, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	May 08, 2023~ Jun. 12, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	May 08, 2023~ Jun. 12, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	May 08, 2023~ Jun. 12, 2023	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 09, 2021	May 08, 2023~ Jun. 12, 2023	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	May 08, 2023~ Jun. 12, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	May 08, 2023~ Jun. 12, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	May 08, 2023~ Jun. 12, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	May 08, 2023~ Jun. 12, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	May 08, 2023~ Jun. 12, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	May 08, 2023~ Jun. 12, 2023	Jul. 05, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Nov. 10, 2022	May 08, 2023~ Jun. 12, 2023	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 08, 2023~ Jun. 12, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 08, 2023~ Jun. 12, 2023	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Jun. 07, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	Jun. 07, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Jun. 07, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2022	Jun. 07, 2023	Jul. 06, 2023	Conduction (CO01-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 Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9dB

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

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

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

Appendix A. Conducted Test Results

Test Engineer:	Liu Qiu Qiu	Temperature:	21~25	°C
Test Date:	2023/6/1~2023/6/4	Relative Humidity:	51~54	%

Report Number : FR272102-02D

TEST RESULTS DATA
Average Power Table

U-NII-1											
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail	Power Setting
HT20	MCS0	1	36	5180	0.00	16.66	24.00	1.20		Pass	17.5
HT20	MCS0	1	44	5220	0.00	16.55	24.00	1.20		Pass	17.5
HT20	MCS0	1	48	5240	0.00	16.63	24.00	1.20		Pass	17.5
HT40	MCS0	1	38	5190	0.00	15.54	24.00	1.20		Pass	16
HT40	MCS0	1	46	5230	0.00	16.82	24.00	1.20		Pass	17
VHT20	MCS0	1	36	5180	0.00	16.63	24.00	1.20		Pass	17.5
VHT20	MCS0	1	44	5220	0.00	16.52	24.00	1.20		Pass	17.5
VHT20	MCS0	1	48	5240	0.00	16.60	24.00	1.20		Pass	17.5
VHT40	MCS0	1	38	5190	0.00	15.50	24.00	1.20		Pass	16
VHT40	MCS0	1	46	5230	0.00	16.78	24.00	1.20		Pass	17
VHT80	MCS0	1	42	5210	0.00	13.01	24.00	1.20		Pass	13.5
VHT160	MCS0	1	50	5250	0.00	13.52	24.00	1.20		Pass	13.5

TEST RESULTS DATA
Average Power Table

U-NII-2A											
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
HT20	MCS 0	1	52	5260	0.00	16.64	23.98	1.70	26.99	Pass	17.5
HT20	MCS 0	1	60	5300	0.00	16.53	23.98	1.70	26.99	Pass	17.5
HT20	MCS 0	1	64	5320	0.00	16.45	23.98	1.70	26.99	Pass	17.5
HT40	MCS 0	1	54	5270	0.00	17.27	23.98	1.70	26.99	Pass	17.5
HT40	MCS 0	1	62	5310	0.00	14.20	23.98	1.70	26.99	Pass	14.5
VHT20	MCS 0	1	52	5260	0.00	16.61	23.98	1.70	26.99	Pass	17.5
VHT20	MCS 0	1	60	5300	0.00	16.50	23.98	1.70	26.99	Pass	17.5
VHT20	MCS 0	1	64	5320	0.00	16.42	23.98	1.70	26.99	Pass	17.5
VHT40	MCS 0	1	54	5270	0.00	17.23	23.98	1.70	26.99	Pass	17.5
VHT40	MCS 0	1	62	5310	0.00	14.16	23.98	1.70	26.99	Pass	14.5
VHT80	MCS 0	1	58	5290	0.00	14.66	23.98	1.70	26.99	Pass	15

TEST RESULTS DATA
Average Power Table

U-NII-2C											
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
HT20	MCS 0	1	100	5500	0.00	16.44	23.98	3.90	26.99	Pass	17.5
HT20	MCS 0	1	116	5580	0.00	16.66	23.98	3.90	26.99	Pass	17.5
HT20	MCS 0	1	140	5700	0.00	16.17	23.98	3.90	26.99	Pass	17.5
HT20	MCS 0	1	144	5720	0.00	16.20	23.98	3.90	26.99	Pass	17.5
HT40	MCS 0	1	102	5510	0.00	14.01	23.98	3.90	26.99	Pass	14.5
HT40	MCS 0	1	110	5550	0.00	17.26	23.98	3.90	26.99	Pass	17.5
HT40	MCS 0	1	134	5670	0.00	16.93	23.98	3.90	26.99	Pass	17.5
HT40	MCS 0	1	142	5710	0.00	16.71	23.98	3.90	26.99	Pass	17.5
VHT20	MCS 0	1	100	5500	0.00	16.41	23.98	3.90	26.99	Pass	17.5
VHT20	MCS 0	1	116	5580	0.00	16.63	23.98	3.90	26.99	Pass	17.5
VHT20	MCS 0	1	140	5700	0.00	16.14	23.98	3.90	26.99	Pass	17.5
VHT20	MCS 0	1	144	5720	0.00	16.17	23.98	3.90	26.99	Pass	17.5
VHT40	MCS 0	1	102	5510	0.00	13.97	23.98	3.90	26.99	Pass	14.5
VHT40	MCS 0	1	110	5550	0.00	17.22	23.98	3.90	26.99	Pass	17.5
VHT40	MCS 0	1	134	5670	0.00	16.89	23.98	3.90	26.99	Pass	17.5
VHT40	MCS 0	1	142	5710	0.00	16.67	23.98	3.90	26.99	Pass	17.5
VHT80	MCS 0	1	106	5530	0.00	13.93	23.98	3.90	26.99	Pass	14.5
VHT80	MCS 0	1	122	5610	0.00	17.05	23.98	3.90	26.99	Pass	17.5
VHT80	MCS 0	1	138	5690	0.00	16.70	23.98	3.90	26.99	Pass	17.5
VHT160	MCS0	1	114	5570	0.00	14.44	23.98	3.90	26.99	Pass	14.5

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)		Note
11a	6Mbps	1	36	5180	17.48	23.76	22.43		
11a	6Mbps	1	44	5220	17.63	23.82	22.46		
11a	6Mbps	1	48	5240	17.53	23.64	22.44		
HE20	MCS0	2	36	5180	19.18	23.70	22.83		
HE20	MCS0	2	44	5220	19.18	23.76	22.83		
HE20	MCS0	2	48	5240	19.23	23.64	22.84		
HE40	MCS0	2	38	5190	37.96	44.64	23.01		
HE40	MCS0	2	46	5230	37.96	44.40	23.01		
HE80	MCS0	2	42	5210	78.00	90.48	23.01		
HE160	MCS0	2	50	5250	157.60	172.80	23.01		

TEST RESULTS DATA
Average Power Table

U-NII-1												
Mod.	Data Rate	N_{TX}	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail	Power Setting
11a	6Mbps	1	36	Full	5180	0.03	16.62	24.00	1.20		Pass	17.5
11a	6Mbps	1	44	Full	5220	0.03	16.49	24.00	1.20		Pass	17.5
11a	6Mbps	1	48	Full	5240	0.03	16.54	24.00	1.20		Pass	17.5
HE20	MCS0	1	36	Full	5180	0.06	16.69	24.00	1.20		Pass	17.5
	MCS0	1	36	26/0		0.06	10.26	24.00	1.20		Pass	9.5
	MCS0	1	36	52/37		0.06	12.66	24.00	1.20		Pass	12.5
	MCS0	1	36	106/53		0.06	15.57	24.00	1.20		Pass	15.5
HE20	MCS0	1	44	Full	5220	0.06	16.58	24.00	1.20		Pass	17.5
HE20	MCS0	1	48	Full	5240	0.06	16.66	24.00	1.20		Pass	17.5
	MCS0	1	48	26/8		0.06	10.43	24.00	1.20		Pass	9.5
	MCS0	1	48	52/40		0.06	12.75	24.00	1.20		Pass	12.5
	MCS0	1	48	106/54		0.06	15.62	24.00	1.20		Pass	15.5
HE40	MCS0	1	38	Full	5190	0.03	15.57	24.00	1.20		Pass	16
HE40	MCS0	1	46	Full	5230	0.03	16.85	24.00	1.20		Pass	17
HE80	MCS0	1	42	Full	5210	0.05	13.06	24.00	1.20		Pass	13.5
HE160	MCS0	1	52	Full	5250	0.05	13.56	24.00	1.20		Pass	13.5

TEST RESULTS DATA
Power Spectral Density

U-NII-1											
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	1	36	Full	5180	0.03	4.75	11.00	1.20		Pass
11a	6Mbps	1	44	Full	5220	0.03	4.58	11.00	1.20		Pass
11a	6Mbps	1	48	Full	5240	0.03	4.54	11.00	1.20		Pass
HE20	MCS0	1	36	Full	5180	0.06	4.10	11.00	1.20		Pass
				26/0		0.06	6.52	11.00	1.20		Pass
				52/37		0.06	6.48	11.00	1.20		Pass
				106/53		0.06	6.26	11.00	1.20		Pass
HE20	MCS0	1	44	Full	5220	0.06	3.96	11.00	1.20		Pass
HE20	MCS0	1	48	Full	5240	0.06	3.94	11.00	1.20		Pass
				26/8		0.06	6.47	11.00	1.20		Pass
				52/40		0.06	6.29	11.00	1.20		Pass
				106/54		0.06	6.28	11.00	1.20		Pass
HE40	MCS0	1	38	Full	5190	0.03	0.39	11.00	1.20		Pass
HE40	MCS0	1	46	Full	5230	0.03	1.50	11.00	1.20		Pass
HE80	MCS0	1	42	Full	5210	0.05	-5.52	11.00	1.20		Pass
HE160	MCS0	1	50	Full	5250	0.05	-7.09	11.00	1.20		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6Mbps	1	52	5260	17.53	23.64	23.44	29.44	23.98	
11a	6Mbps	1	60	5300	17.53	23.76	23.44	29.44	23.98	
11a	6Mbps	1	64	5320	17.53	23.82	23.44	29.44	23.98	
HE20	MCS0	2	52	5260	19.18	23.58	23.83	29.83	23.98	
HE20	MCS0	2	60	5300	19.23	23.70	23.84	29.84	23.98	
HE20	MCS0	2	64	5320	19.23	24.00	23.84	29.84	23.98	
HE40	MCS0	2	54	5270	38.06	44.04	23.98	30.00	23.98	
HE40	MCS0	2	62	5310	38.06	44.76	23.98	30.00	23.98	
HE80	MCS0	2	58	5290	78.00	90.24	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

U-NII-2A												
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6Mbps	1	52	Full	5260	0.03	16.58	23.98	1.70	26.99	Pass	17.5
11a	6Mbps	1	60	Full	5300	0.03	16.44	23.98	1.70	26.99	Pass	17.5
11a	6Mbps	1	64	Full	5320	0.03	16.39	23.98	1.70	26.99	Pass	17.5
HE20	MCS0	1	52	Full	5260	0.06	16.67	23.98	1.70	26.99	Pass	17.5
	MCS0	1		26/0		0.06	13.60	23.98	1.70	26.99	Pass	13.5
	MCS0	1		52/37		0.06	16.26	23.98	1.70	26.99	Pass	16.5
	MCS0	1		106/53		0.06	16.38	23.98	1.70	26.99	Pass	16.5
HE20	MCS0	1	60	Full	5300	0.06	16.56	23.98	1.70	26.99	Pass	17.5
HE20	MCS0	1	64	Full	5320	0.06	16.48	23.98	1.70	26.99	Pass	17.5
	MCS0	1		26/8		0.06	13.77	23.98	1.70	26.99	Pass	13.5
	MCS0	1		52/40		0.06	16.42	23.98	1.70	26.99	Pass	16.5
	MCS0	1		106/54		0.06	16.25	23.98	1.70	26.99	Pass	16.5
HE40	MCS0	1	54	Full	5270	0.03	17.30	23.98	1.70	26.99	Pass	17.5
HE40	MCS0	1	62	Full	5310	0.03	14.23	23.98	1.70	26.99	Pass	14.5
HE80	MCS0	1	58	Full	5290	0.05	14.71	23.98	1.70	26.99	Pass	15

TEST RESULTS DATA
Power Spectral Density

U-NII-2A										
Mod.	Data Rate	N_{TX}	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
11a	6Mbps	1	52	Full	5260	0.03	4.55	11.00	1.70	Pass
11a	6Mbps	1	60	Full	5300	0.03	4.44	11.00	1.70	Pass
11a	6Mbps	1	64	Full	5320	0.03	4.44	11.00	1.70	Pass
HE20	MCS0	1	52	Full	5260	0.06	3.97	11.00	1.70	Pass
				26/0		0.06	10.19	11.00	1.70	Pass
				52/37		0.06	9.82	11.00	1.70	Pass
				106/53		0.06	7.36	11.00	1.70	Pass
HE20	MCS0	1	60	Full	5300	0.06	3.87	11.00	1.70	Pass
HE20	MCS0	1	64	Full	5320	0.06	3.83	11.00	1.70	Pass
				26/8		0.06	10.27	11.00	1.70	Pass
				52/40		0.06	10.23	11.00	1.70	Pass
				106/54		0.06	7.22	11.00	1.70	Pass
HE40	MCS0	1	54	Full	5270	0.03	1.64	11.00	1.70	Pass
HE40	MCS0	1	62	Full	5310	0.03	-1.26	11.00	1.70	Pass
HE80	MCS0	1	58	Full	5290	0.05	-3.75	11.00	1.70	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6Mbps	1	100	5500	17.53	23.40	23.44	29.44	23.98	
11a	6Mbps	1	116	5580	17.58	23.46	23.45	29.45	23.98	
11a	6Mbps	1	140	5700	17.53	23.82	23.44	29.44	23.98	
11a	6Mbps	1	144	5720	17.53	24.06	23.44	29.44	23.98	
HE20	MCS0	2	100	5500	19.18	24.00	23.83	29.83	23.98	
HE20	MCS0	2	116	5580	19.23	24.00	23.84	29.84	23.98	
HE20	MCS0	2	140	5700	19.18	23.52	23.83	29.83	23.98	
HE20	MCS0	2	144	5720	19.23	23.94	23.84	29.84	23.98	
HE40	MCS0	2	102	5510	38.06	44.52	23.98	30.00	23.98	
HE40	MCS0	2	110	5550	37.96	44.28	23.98	30.00	23.98	
HE40	MCS0	2	134	5670	38.06	44.16	23.98	30.00	23.98	
HE40	MCS0	2	142	5710	37.96	44.40	23.98	30.00	23.98	
HE80	MCS0	2	106	5530	77.84	88.56	23.98	30.00	23.98	
HE80	MCS0	2	122	5610	77.84	88.32	23.98	30.00	23.98	
HE80	MCS0	2	138	5690	78.00	89.52	23.98	30.00	23.98	
HE160	MCS0	2	114	5570	156.96	171.84	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

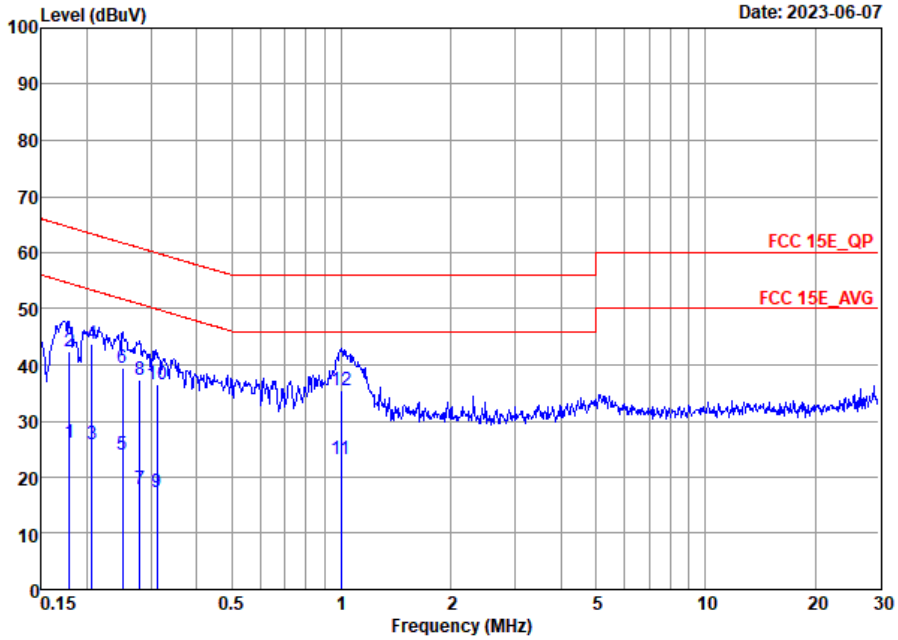
U-NII-2C												
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	Power Setting
11a	6Mbps	1	100	Full	5500	0.03	16.40	23.98	3.90	26.9897	Pass	17.5
11a	6Mbps	1	116	Full	5580	0.03	16.60	23.98	3.90	26.9897	Pass	17.5
11a	6Mbps	1	140	Full	5700	0.03	16.10	23.98	3.90	26.9897	Pass	17.5
11a	6Mbps	1	144	Full	5720	0.03	16.16	23.98	3.90	26.9897	Pass	17.5
HE20	MCS0	1	100	Full	5500	0.06	16.47	23.98	3.90	26.9897	Pass	17.5
	MCS0	1		26/0	5500	0.06	13.54	23.98	3.90	26.9897	Pass	13.5
	MCS0	1		52/37	5500	0.06	16.35	23.98	3.90	26.9897	Pass	16.5
	MCS0	1		106/53	5500	0.06	16.15	23.98	3.90	26.9897	Pass	16.5
HE20	MCS0	1	116	Full	5580	0.06	16.69	23.98	3.90	26.9897	Pass	17.5
HE20	MCS0	1	140	Full	5700	0.06	16.20	23.98	3.90	26.9897	Pass	17.5
	MCS0	1		26/8		0.06	13.28	23.98	3.90	26.9897	Pass	13.5
	MCS0	1		52/40		0.06	16.17	23.98	3.90	26.9897	Pass	16.5
	MCS0	1		106/54		0.06	16.12	23.98	3.90	26.9897	Pass	16.5
HE20	MCS0	1	144	Full	5720	0.06	16.23	23.98	3.90	26.9897	Pass	17.5
	MCS0	1		26/8		0.06	13.51	23.98	3.90	26.9897	Pass	13.5
	MCS0	1		52/40		0.06	16.20	23.98	3.90	26.9897	Pass	16.5
	MCS0	1		106/54		0.06	16.11	23.98	3.90	26.9897	Pass	16.5
HE40	MCS0	1	102	Full	5510	0.03	14.04	23.98	3.90	26.9897	Pass	14.5
HE40	MCS0	1	110	Full	5550	0.03	17.29	23.98	3.90	26.9897	Pass	17.5
HE40	MCS0	1	134	Full	5670	0.03	16.96	23.98	3.90	26.9897	Pass	17.5
HE40	MCS0	1	142	Full	5710	0.03	16.74	23.98	3.90	26.9897	Pass	17.5
HE80	MCS0	1	106	Full	5530	0.05	13.98	23.98	3.90	26.9897	Pass	14.5
HE80	MCS0	1	122	Full	5610	0.05	17.10	23.98	3.90	26.9897	Pass	17.5
HE80	MCS0	1	138	Full	5690	0.05	16.75	23.98	3.90	26.9897	Pass	17.5
HE160	MCS0	1	114	Full	5570	0.05	14.48	23.98	3.90	26.9897	Pass	14.5

TEST RESULTS DATA
Power Spectral Density

U-NII-2C										
Mod.	Data Rate	N_{TX}	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
11a	6Mbps	1	100	Full	5500	0.03	4.58	11.00	3.90	Pass
11a	6Mbps	1	116	Full	5580	0.03	4.57	11.00	3.90	Pass
11a	6Mbps	1	140	Full	5700	0.03	3.99	11.00	3.90	Pass
11a	6Mbps	1	144	Full	5720	0.03	3.99	11.00	3.90	Pass
HE20	MCS0	1	100	Full	5500	0.06	3.99	11.00	3.90	Pass
				26/0		0.06	10.15	11.00	3.90	Pass
				52/37		0.06	10.23	11.00	3.90	Pass
				106/53		0.06	6.93	11.00	3.90	Pass
HE20	MCS0	1	116	Full	5580	0.06	4.00	11.00	3.90	Pass
HE20	MCS0	1	140	Full	5700	0.06	3.41	11.00	3.90	Pass
				26/8		0.06	9.57	11.00	3.90	Pass
				52/40		0.06	9.72	11.00	3.90	Pass
				106/54		0.06	6.86	11.00	3.90	Pass
HE20	MCS0	1	144	Full	5720	0.06	3.49	11.00	3.90	Pass
				26/8		0.06	9.89	11.00	3.90	Pass
				52/40		0.06	9.96	11.00	3.90	Pass
				106/54		0.06	6.83	11.00	3.90	Pass
HE40	MCS0	1	102	Full	5510	0.03	-1.43	11.00	3.90	Pass
HE40	MCS0	1	110	Full	5550	0.03	1.72	11.00	3.90	Pass
HE40	MCS0	1	134	Full	5670	0.03	1.36	11.00	3.90	Pass
HE40	MCS0	1	142	Full	5710	0.03	1.12	11.00	3.90	Pass
HE80	MCS0	1	106	Full	5530	0.05	-4.49	11.00	3.90	Pass
HE80	MCS0	1	122	Full	5610	0.05	-1.53	11.00	3.90	Pass
HE80	MCS0	1	138	Full	5690	0.05	-1.86	11.00	3.90	Pass
HE160	MCS0	2	114	Full	5570	0.05	-6.25	11.00	3.90	Pass

Appendix B. AC Conducted Emission Test Results

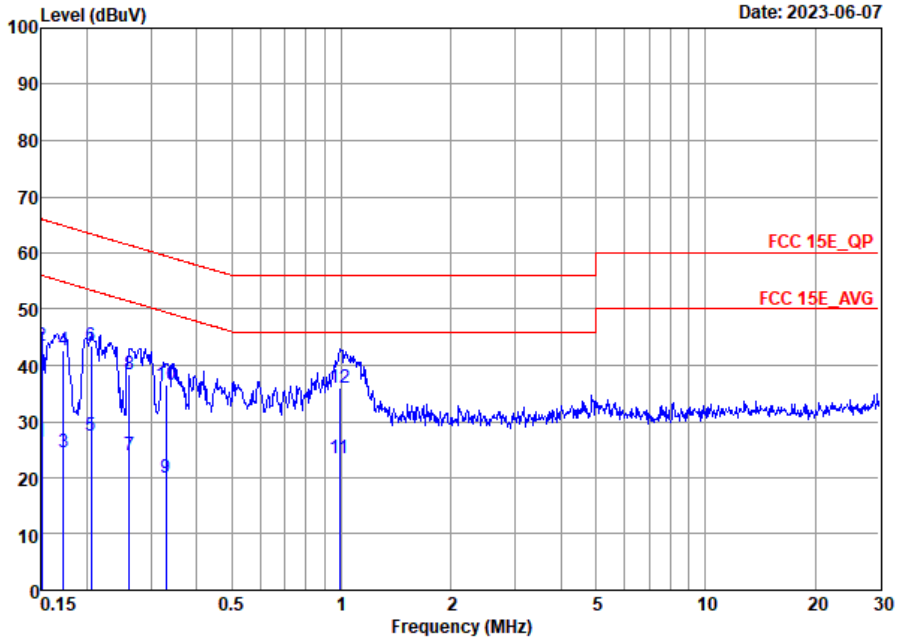
Test Engineer :	Lily	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15E_QP LISN_20230420_L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.18	26.00	-28.55	54.55	5.40	10.46	10.14	Average
2		0.18	42.50	-22.05	64.55	21.90	10.46	10.14	QP
3		0.21	25.86	-27.50	53.36	5.30	10.41	10.15	Average
4	*	0.21	43.76	-19.60	63.36	23.20	10.41	10.15	QP
5		0.25	24.13	-27.60	51.73	3.60	10.38	10.15	Average
6		0.25	39.53	-22.20	61.73	19.00	10.38	10.15	QP
7		0.28	17.93	-32.92	50.85	-2.59	10.37	10.15	Average
8		0.28	37.23	-23.62	60.85	16.71	10.37	10.15	QP
9		0.31	17.21	-32.72	49.93	-3.29	10.35	10.15	Average
10		0.31	36.51	-23.42	59.93	16.01	10.35	10.15	QP
11		1.00	23.30	-22.70	46.00	2.90	10.24	10.16	Average
12		1.00	35.40	-20.60	56.00	15.00	10.24	10.16	QP

Test Engineer :	Lily	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
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 LISN_20230420_N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15	26.39	-29.61	56.00	5.80	10.46	10.13	Average
2		0.15	43.49	-22.51	66.00	22.90	10.46	10.13	QP
3		0.17	24.56	-30.30	54.86	4.00	10.42	10.14	Average
4		0.17	42.66	-22.20	64.86	22.10	10.42	10.14	QP
5		0.21	27.50	-25.90	53.40	7.00	10.35	10.15	Average
6	*	0.21	43.60	-19.80	63.40	23.10	10.35	10.15	QP
7		0.26	23.87	-27.51	51.38	3.40	10.32	10.15	Average
8		0.26	38.47	-22.91	61.38	18.00	10.32	10.15	QP
9		0.33	20.13	-29.31	49.44	-0.30	10.27	10.16	Average
10		0.33	36.53	-22.91	59.44	16.10	10.27	10.16	QP
11		0.99	23.50	-22.50	46.00	3.10	10.24	10.16	Average
12		0.99	35.90	-20.10	56.00	15.50	10.24	10.16	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 Engineer :	Reid Huang	**Relative Humidity :**	50%
		Temperature :	20~22℃

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 5	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	RU26/0	-
Mode 6	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	RU52/37	-
Mode 7	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	RU106/53	-
Mode 8	U-NII-1	5.15-5.25	802.11ax HE20	44	5220	MCS0	Full RU	-
Mode 9	U-NII-1	5.15-5.25	802.11ax HE20	48	5240	MCS0	Full RU	-
Mode 10	U-NII-1	5.25-5.35	802.11ax HE20	48	5240	MCS0	RU26/8	-
Mode 11	U-NII-1	5.25-5.35	802.11ax HE20	48	5240	MCS0	RU52/40	-
Mode 12	U-NII-1	5.25-5.35	802.11ax HE20	48	5240	MCS0	RU106/54	-
Mode 13	U-NII-1	5.15-5.25	802.11ax HE40	38	5190	MCS0	Full RU	-
Mode 14	U-NII-1	5.15-5.25	802.11ax HE40	46	5230	MCS0	Full RU	-
Mode 15	U-NII-1	5.15-5.25	802.11ax HE80	42	5210	MCS0	Full RU	-
Mode 16	U-NII-1	5.15-5.25	802.11ax HE160	50	5250	MCS0	Full RU	-
Mode 17	U-NII-2A	5.25-5.35	802.11a	52	5260	6Mbps	-	-
Mode 18	U-NII-2A	5.25-5.35	802.11a	60	5300	6Mbps	-	-
Mode 19	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-	-
Mode 20	U-NII-2A	5.25-5.35	802.11ax HE20	52	5260	MCS0	Full RU	-
Mode 21	U-NII-2A	5.25-5.35	802.11ax HE20	52	5260	MCS0	RU26/0	-
Mode 22	U-NII-2A	5.25-5.35	802.11ax HE20	52	5260	MCS0	RU52/37	-
Mode 23	U-NII-2A	5.25-5.35	802.11ax HE20	52	5260	MCS0	RU106/53	-
Mode 24	U-NII-2A	5.25-5.35	802.11ax HE20	60	5300	MCS0	Full RU	-
Mode 25	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 26	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	RU26/8	-
Mode 27	U-NII-2A	5.47-5.725	802.11ax HE20	64	5320	6Mbps	RU52/40	-
Mode 28	U-NII-2A	5.47-5.725	802.11ax HE20	64	5320	6Mbps	RU106/54	-
Mode 29	U-NII-2A	5.25-5.35	802.11ax HE40	54	5270	MCS0	Full RU	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 30	U-NII-2A	5.25-5.35	802.11ax HE40	62	5310	MCS0	Full RU	-
Mode 31	U-NII-2A	5.25-5.35	802.11ax HE80	58	5290	MCS0	Full RU	-
Mode 32	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-	-
Mode 33	U-NII-2C	5.47-5.725	802.11a	116	5580	6Mbps	-	-
Mode 34	U-NII-2C	5.47-5.725	802.11a	140	5700	6Mbps	-	-
Mode 35	U-NII-2C	5.47-5.725	802.11a	144	5720	6Mbps	-	-
Mode 36	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	Full RU	-
Mode 37	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	RU26/0	-
Mode 38	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	RU52/37	-
Mode 39	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	RU106/53	-
Mode 40	U-NII-2C	5.47-5.725	802.11ax HE20	116	5580	MCS0	Full RU	-
Mode 41	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	Full RU	-
Mode 42	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	RU26/8	-
Mode 43	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	RU52/40	-
Mode 44	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	RU106/54	-
Mode 45	U-NII-2C	5.47-5.725	802.11ax HE20	144	5720	MCS0	Full RU	-
Mode 46	U-NII-2C	5.47-5.725	802.11ax HE20	144	5720	MCS0	RU26/8	-
Mode 47	U-NII-2C	5.47-5.725	802.11ax HE20	144	5720	MCS0	RU52/40	-
Mode 48	U-NII-2C	5.47-5.725	802.11ax HE20	144	5720	MCS0	RU106/54	-
Mode 49	U-NII-2C	5.47-5.725	802.11ax HE40	102	5510	MCS0	Full RU	-
Mode 50	U-NII-2C	5.47-5.725	802.11ax HE40	110	5550	MCS0	Full RU	-
Mode 51	U-NII-2C	5.47-5.725	802.11ax HE40	134	5670	MCS0	Full RU	-
Mode 52	U-NII-2C	5.47-5.725	802.11ax HE40	142	5710	MCS0	Full RU	-
Mode 53	U-NII-2C	5.47-5.725	802.11ax HE80	106	5530	MCS0	Full RU	-
Mode 54	U-NII-2C	5.47-5.725	802.11ax HE80	122	5610	MCS0	Full RU	-
Mode 55	U-NII-2C	5.47-5.725	802.11ax HE80	138	5690	MCS0	Full RU	-
Mode 56	U-NII-2C	5.47-5.725	802.11ax HE160	114	5570	MCS0	Full RU	-
Mode 72	U-NII-2A	5.25-5.35	802.11ax HE80	58	5290	MCS0	Full RU	LF

Co-location Test Mode

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 74	-	2400-2483.5	Bluetooth-LE_GSFK	39	2480	2Mbps	-	-
	U-NII-2A	5.25-5.35	802.11ax HE80	58	5290	MCS0	Full	-

Summary of each worse mode

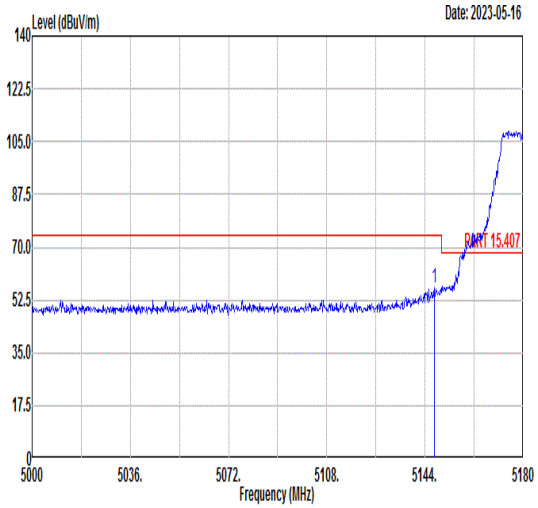
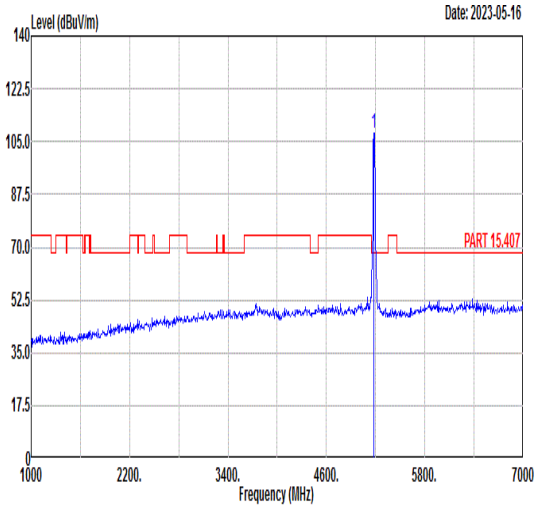
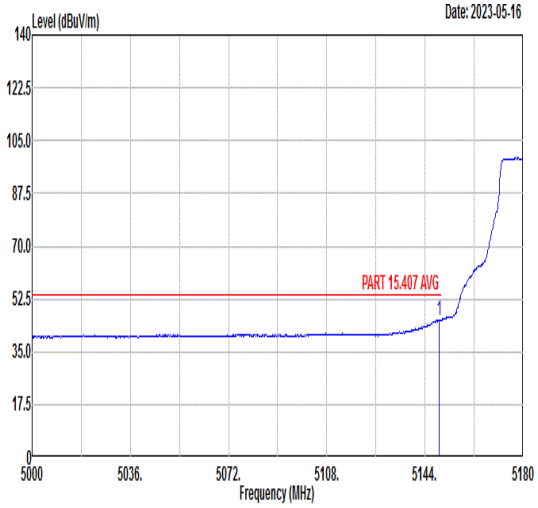
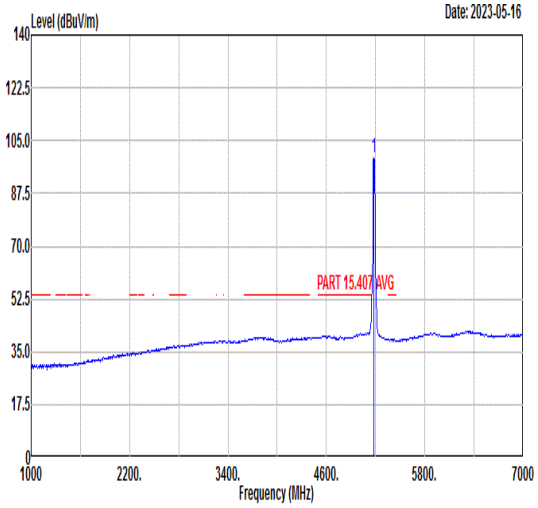
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.22	45.65	54.00	-8.35	H	Average	Pass	Band Edge
	802.11a	36	10360.00	46.28	68.30	-22.02	V	Peak	Pass	Harmonic
2	802.11a	44	5100.32	40.65	54.00	-13.35	H	Average	Pass	Band Edge
	802.11a	44	10440.00	47.92	68.30	-20.38	V	Peak	Pass	Harmonic
3	802.11a	48	5017.04	40.53	54.00	-13.47	H	Average	Pass	Band Edge
	802.11a	48	10480.00	46.59	68.30	-21.71	H	Peak	Pass	Harmonic
4	802.11ax HE20	36	5149.94	45.66	54.00	-8.34	H	Average	Pass	Band Edge
	802.11ax HE20	36	10360.00	46.93	68.30	-21.37	H	Peak	Pass	Harmonic
5	802.11ax HE20	36	5053.28	40.39	54.00	-13.61	H	Average	Pass	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Harmonic
6	802.11ax HE20	36	5136.80	41.33	54.00	-12.67	H	Average	Pass	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Harmonic
7	802.11ax HE20	36	5149.94	41.68	54.00	-12.32	H	Average	Pass	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Harmonic
8	802.11ax HE20	44	5148.06	41.51	54.00	-12.49	H	Average	Pass	Band Edge
	802.11ax HE20	44	10440.00	47.81	68.30	-20.49	V	Peak	Pass	Harmonic
9	802.11ax HE20	48	5047.04	41.05	54.00	-12.95	H	Average	Pass	Band Edge
	802.11ax HE20	48	10480.00	46.84	68.30	-21.46	H	Peak	Pass	Harmonic
10	802.11ax HE20	48	5049.68	40.26	54.00	-13.74	H	Average	Pass	Band Edge
	802.11ax HE20	48	-	-	-	-	-	-	-	Harmonic
11	802.11ax HE20	48	5050.16	40.36	54.00	-13.64	H	Average	Pass	Band Edge
	802.11ax HE20	48	-	-	-	-	-	-	-	Harmonic
12	802.11ax HE20	48	5108.24	40.29	54.00	-13.71	H	Average	Pass	Band Edge
	802.11ax HE20	48	-	-	-	-	-	-	-	Harmonic
13	802.11ax HE40	38	5149.91	50.44	54.00	-3.56	H	Average	Pass	Band Edge
	802.11ax HE40	38	10380.00	48.10	68.30	-20.20	H	Peak	Pass	Harmonic
14	802.11ax HE40	46	5149.27	49.12	54.00	-4.88	H	Average	Pass	Band Edge
	802.11ax HE40	46	10460.00	46.49	68.30	-21.81	V	Peak	Pass	Harmonic
15	802.11ax HE80	42	5144.27	42.94	54.00	-11.06	H	Average	Pass	Band Edge
	802.11ax HE80	42	10420.00	47.04	68.30	-21.26	H	Peak	Pass	Harmonic
16	802.11ax HE160	50	5407.50	46.37	54.00	-7.63	H	Average	Pass	Band Edge
	802.11ax HE160	50	10500.00	47.44	68.30	-20.86	V	Peak	Pass	Harmonic
17	802.11a	52	5052.78	40.51	54.00	-13.49	H	Average	Pass	Band Edge
	802.11a	52	10520.00	46.60	68.30	-21.70	V	Peak	Pass	Harmonic
18	802.11a	60	5352.00	40.95	54.00	-13.05	H	Average	Pass	Band Edge
	802.11a	60	15900.00	50.75	74.00	-23.25	H	Peak	Pass	Harmonic

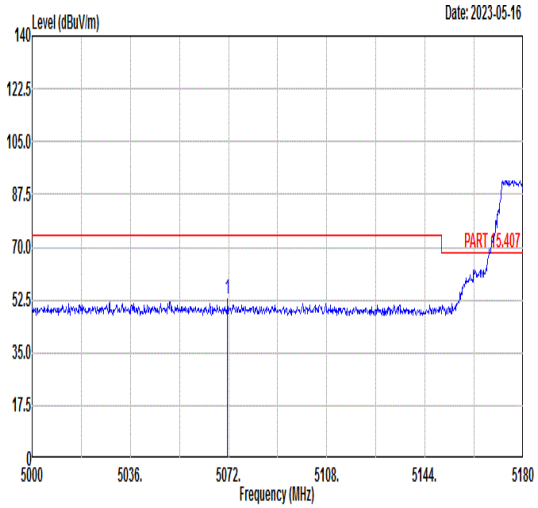
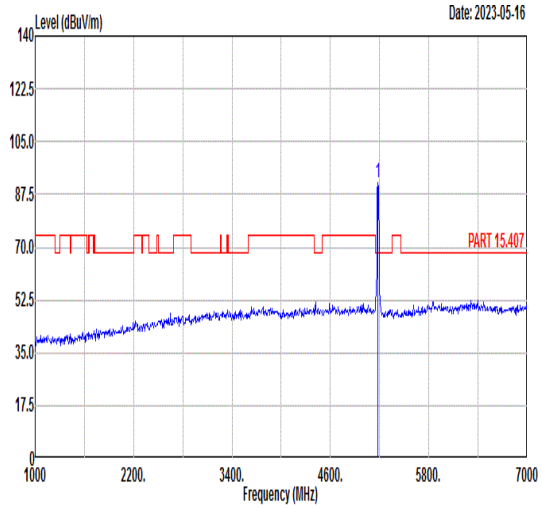
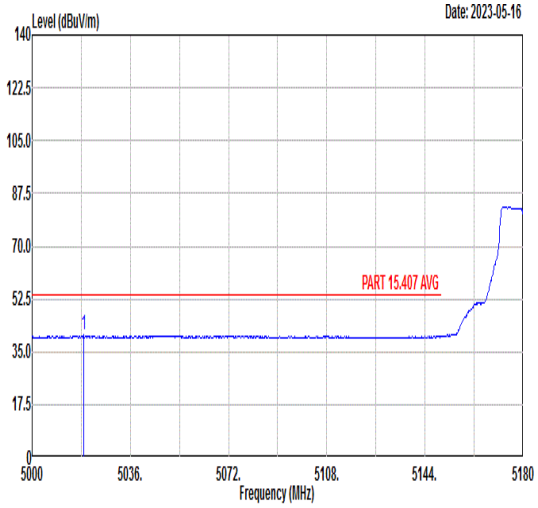
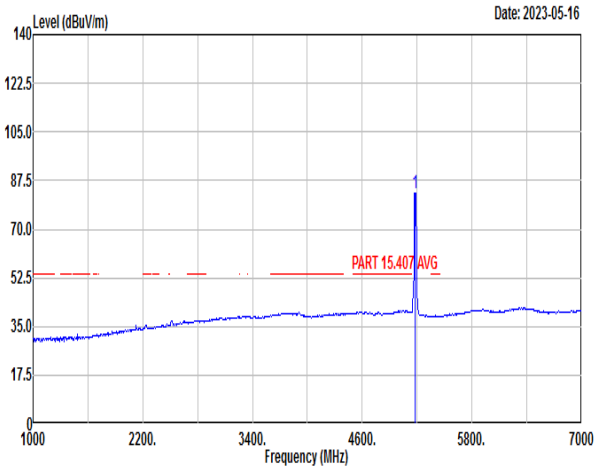
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
19	802.11a	64	5350.66	44.48	54.00	-9.52	H	Average	Pass	Band Edge
	802.11a	64	15960.00	50.56	74.00	-23.44	V	Peak	Pass	Harmonic
20	802.11ax HE20	52	5138.06	40.99	54.00	-13.01	H	Average	Pass	Band Edge
	802.11ax HE20	52	10520.00	47.59	68.30	-20.71	H	Peak	Pass	Harmonic
21	802.11ax HE20	52	5049.92	40.46	54.00	-13.54	H	Average	Pass	Band Edge
	802.11ax HE20	52	-	-	-	-	-	-	-	Harmonic
22	802.11ax HE20	52	5046.28	40.38	54.00	-13.62	H	Average	Pass	Band Edge
	802.11ax HE20	52	-	-	-	-	-	-	-	Harmonic
23	802.11ax HE20	52	5019.76	40.23	54.00	-13.77	H	Average	Pass	Band Edge
	802.11ax HE20	52	-	-	-	-	-	-	-	Harmonic
24	802.11ax HE20	60	5351.36	43.93	54.00	-10.07	H	Average	Pass	Band Edge
	802.11ax HE20	60	15900.00	48.99	74.00	-25.01	H	Peak	Pass	Harmonic
25	802.11ax HE20	64	5351.64	43.08	54.00	-10.92	H	Average	Pass	Band Edge
	802.11ax HE20	64	15960.00	50.66	74.00	-23.34	V	Peak	Pass	Harmonic
26	802.11ax HE20	64	5361.72	41.45	54.00	-12.55	H	Average	Pass	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Harmonic
27	802.11ax HE20	64	5359.90	40.99	54.00	-13.01	H	Average	Pass	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Harmonic
28	802.11ax HE20	64	5350.38	42.38	54.00	-11.62	H	Average	Pass	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Harmonic
29	802.11ax HE40	54	5351.51	42.29	54.00	-11.71	H	Average	Pass	Band Edge
	802.11ax HE40	54	10540.00	47.93	68.30	-20.37	H	Peak	Pass	Harmonic
30	802.11ax HE40	62	5355.75	43.33	54.00	-10.67	H	Average	Pass	Band Edge
	802.11ax HE40	62	15930.00	50.98	74.00	-23.02	H	Peak	Pass	Harmonic
31	802.11ax HE80	58	5355.96	51.32	54.00	-2.68	H	Average	Pass	Band Edge
	802.11ax HE80	58	10580.00	47.01	68.30	-21.29	V	Peak	Pass	Harmonic
32	802.11a	100	5459.95	41.98	54.00	-12.02	H	Average	Pass	Band Edge
	802.11a	100	16500.00	51.05	68.30	-17.25	V	Peak	Pass	Harmonic
33	802.11a	116	5456.95	39.53	54.00	-14.47	H	Average	Pass	Band Edge
	802.11a	116	16740.00	52.30	68.30	-16.00	H	Peak	Pass	Harmonic
34	802.11a	140	5725.35	64.30	68.30	-4.00	H	Peak	Pass	Band Edge
	802.11a	140	17100.00	53.37	68.30	-14.93	H	Peak	Pass	Harmonic
35	802.11a	144	5390.15	38.00	54.00	-16.00	H	Average	Pass	Band Edge
	802.11a	144	17160.00	51.26	68.30	-17.04	V	Peak	Pass	Harmonic
36	802.11ax HE20	100	5459.35	43.51	54.00	-10.49	H	Average	Pass	Band Edge
	802.11ax HE20	100	16500.00	51.06	68.30	-17.24	H	Peak	Pass	Harmonic
37	802.11ax HE20	100	5457.85	40.99	54.00	-13.01	H	Average	Pass	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Harmonic

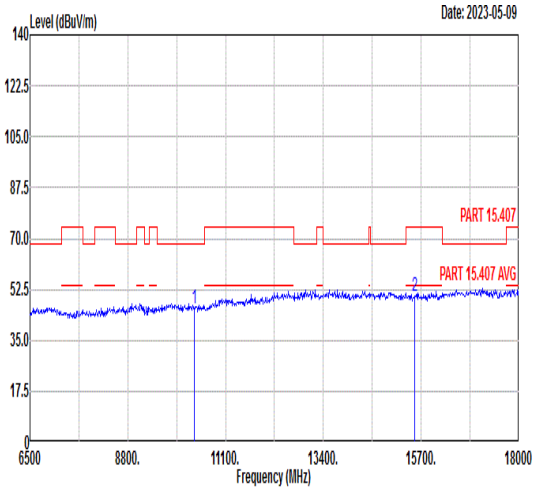
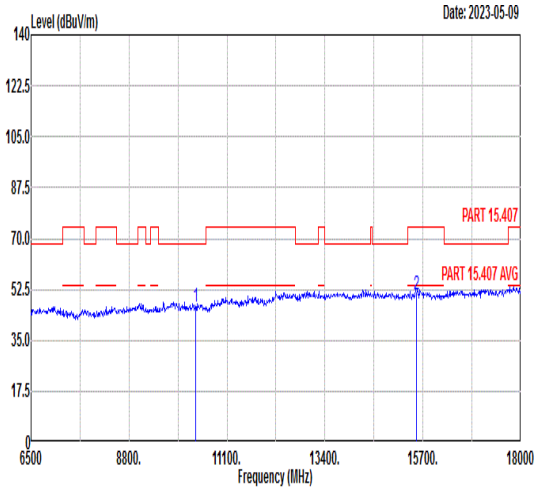
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
38	802.11ax HE20	100	5459.65	40.50	54.00	-13.50	H	Average	Pass	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Harmonic
39	802.11ax HE20	100	5457.70	40.34	54.00	-13.66	H	Average	Pass	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Harmonic
40	802.11ax HE20	116	5424.06	39.04	54.00	-14.96	H	Average	Pass	Band Edge
	802.11ax HE20	116	16740.00	51.47	68.30	-16.83	V	Peak	Pass	Harmonic
41	802.11ax HE20	140	5725.74	60.85	68.30	-7.45	H	Peak	Pass	Band Edge
	802.11ax HE20	140	17100.00	51.05	68.30	-17.25	V	Peak	Pass	Harmonic
42	802.11ax HE20	140	5727.50	52.83	68.30	-15.47	H	Peak	Pass	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Harmonic
43	802.11ax HE20	140	5728.21	52.76	68.30	-15.54	H	Peak	Pass	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Harmonic
44	802.11ax HE20	140	5726.00	58.84	68.30	-9.46	H	Peak	Pass	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Harmonic
45	802.11ax HE20	144	5429.75	38.51	54.00	-15.49	H	Average	Pass	Band Edge
	802.11ax HE20	144	17160.00	52.44	68.30	-15.86	V	Peak	Pass	Harmonic
46	802.11ax HE20	144	5391.25	38.53	54.00	-15.47	H	Average	Pass	Band Edge
47	802.11ax HE20	144	5420.95	38.50	54.00	-15.50	H	Average	Pass	Band Edge
48	802.11ax HE20	144	5416.00	38.61	54.00	-15.39	H	Average	Pass	Band Edge
49	802.11ax HE40	102	5469.20	65.10	68.30	-3.20	H	Peak	Pass	Band Edge
	802.11ax HE40	102	16530.00	51.86	68.30	-16.44	H	Peak	Pass	Harmonic
50	802.11ax HE40	110	5469.00	64.87	68.30	-3.43	H	Peak	Pass	Band Edge
	802.11ax HE40	110	16650.00	51.65	68.30	-16.65	V	Peak	Pass	Harmonic
51	802.11ax HE40	134	5725.01	62.62	68.30	-5.68	H	Peak	Pass	Band Edge
	802.11ax HE40	134	17010.00	51.52	68.30	-16.78	V	Peak	Pass	Harmonic
52	802.11ax HE40	142	5424.25	37.68	54.00	-16.32	H	Average	Pass	Band Edge
	802.11ax HE40	142	17130.00	52.75	68.30	-15.55	V	Peak	Pass	Harmonic
53	802.11ax HE80	106	5459.80	45.41	54.00	-8.59	H	Average	Pass	Band Edge
	802.11ax HE80	106	16590.00	51.64	68.30	-16.66	H	Peak	Pass	Harmonic
54	802.11ax HE80	122	5726.41	63.01	68.30	-5.29	H	Peak	Pass	Band Edge
	802.11ax HE80	122	16830.00	50.82	68.30	-17.48	V	Peak	Pass	Harmonic
55	802.11ax HE80	138	5460.00	38.50	54.00	-15.50	H	Average	Pass	Band Edge
	802.11ax HE80	138	17070.00	51.89	68.30	-16.41	V	Peak	Pass	Harmonic
56	802.11ax HE160	114	5459.34	45.79	54.00	-8.21	H	Average	Pass	Band Edge
	802.11ax HE160	114	16710.00	51.57	68.30	-16.73	H	Peak	Pass	Harmonic
72	802.11ax HE80	58	597.45	32.13	46.00	-13.87	H	Peak	Pass	LF

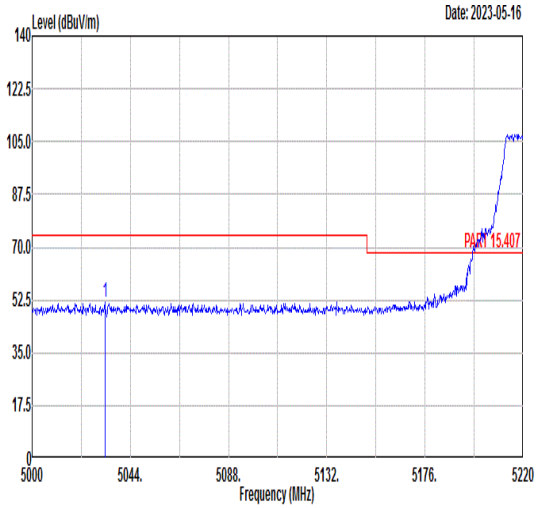
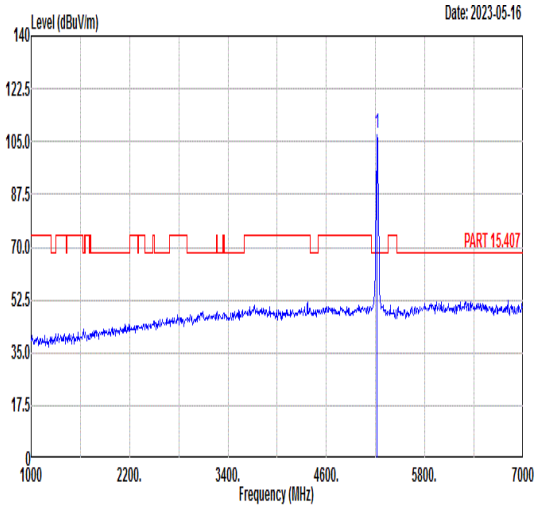
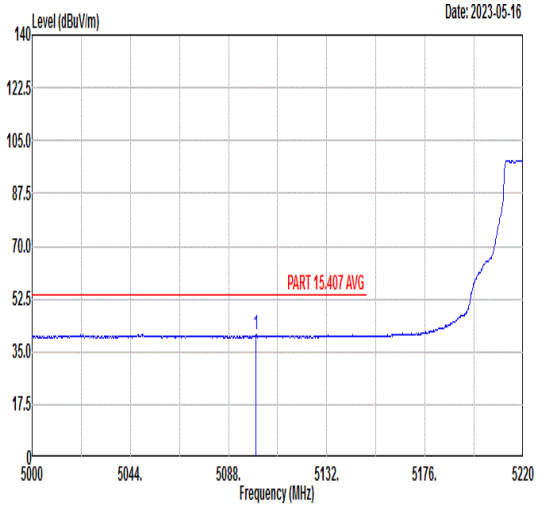
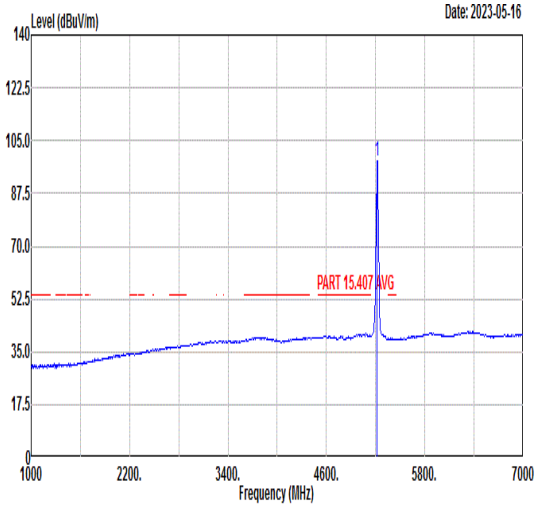
Co-location

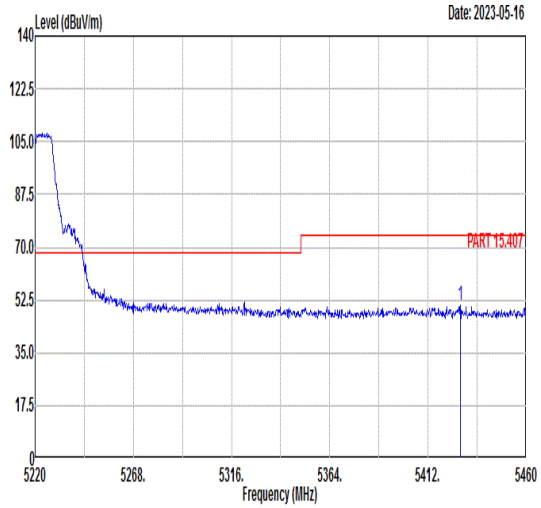
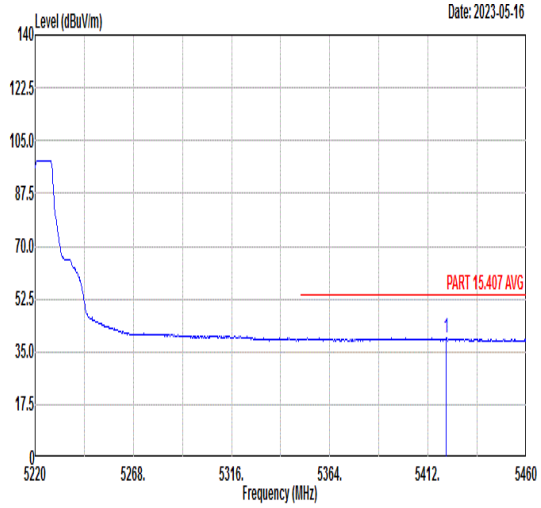
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
74	Bluetooth-LE_GSFK	39	2498.60	44.39	54.00	-9.61	H	Average	Pass	Band Edge
	Bluetooth-LE_GSFK	39	4960.00	44.43	74.00	-29.57	H	Peak	Pass	Harmonic
	802.11ax HE80	58	5364.96	50.11	54.00	-3.89	H	Average	Pass	Band Edge
	802.11ax HE80	58	10580.00	48.89	68.30	-19.41	V	Peak	Pass	Harmonic

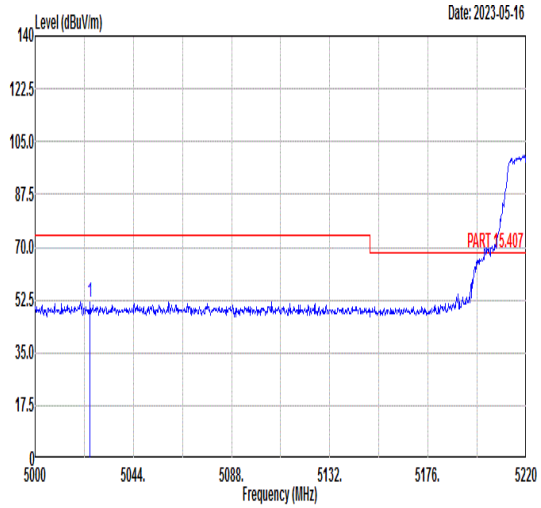
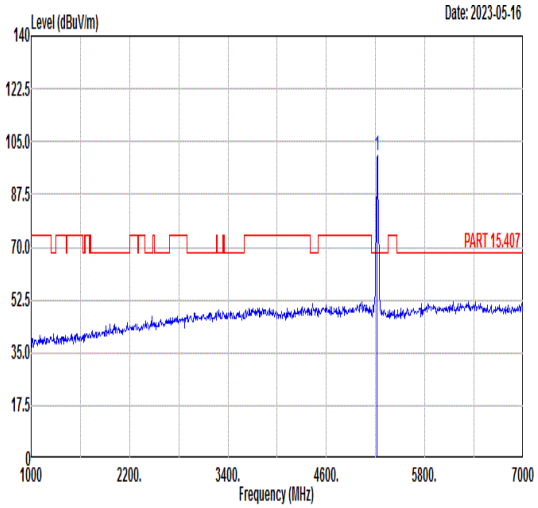
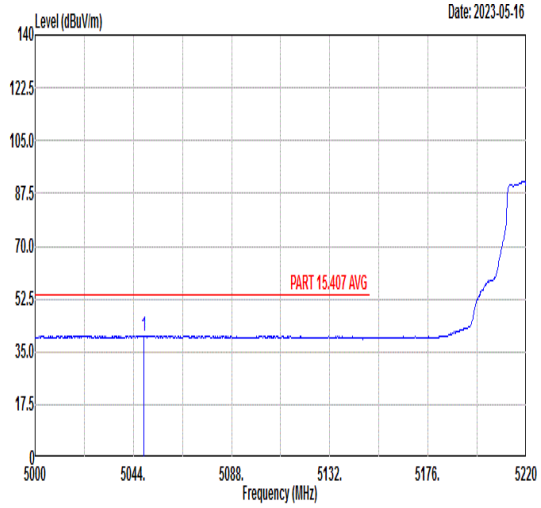
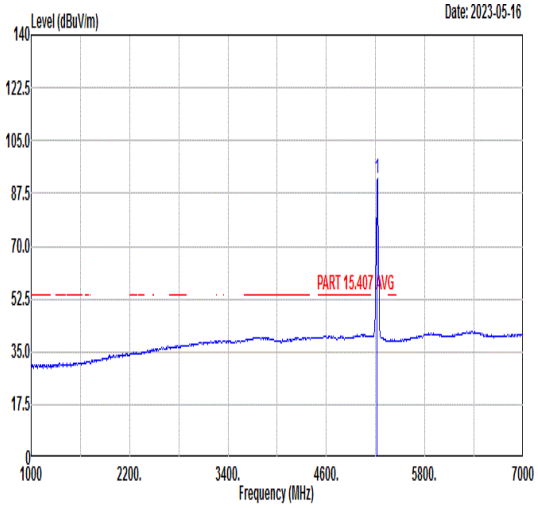
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5147.42 56.60 74.00 -17.40 46.98 34.54 7.92 32.84 187 116 PEAK	 Freq 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 5180.00 108.02 ------ ------ 98.44 34.53 7.94 32.89 187 116 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 5149.22 45.65 54.00 -8.35 36.03 34.54 7.92 32.84 187 116 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 5180.00 99.11 ------ ------ 89.53 34.53 7.94 32.89 187 116 AVERAGE

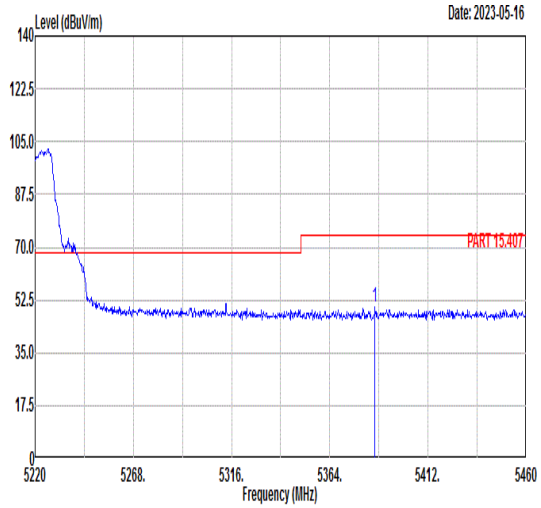
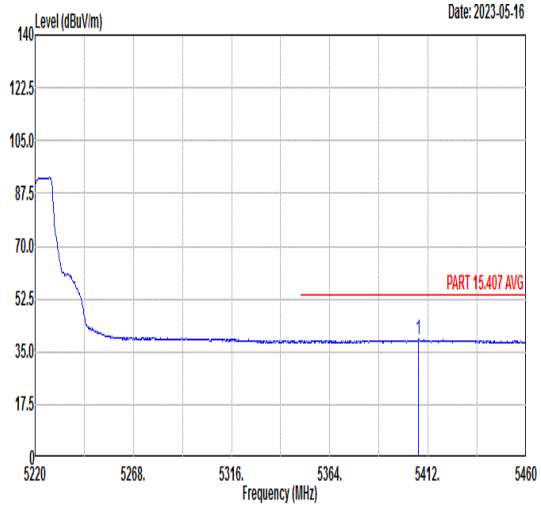
Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5071.64 52.67 74.00 -21.33 42.95 34.57 7.87 32.72 200 211 PEAK	 Freq 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 5180.00 91.15 ------ ------ 81.57 34.53 7.94 32.89 200 211 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 5018.90 40.42 54.00 -13.58 30.63 34.59 7.83 32.63 200 211 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 5180.00 82.94 ------ ------ 73.39 34.52 7.94 32.91 200 211 AVERAGE

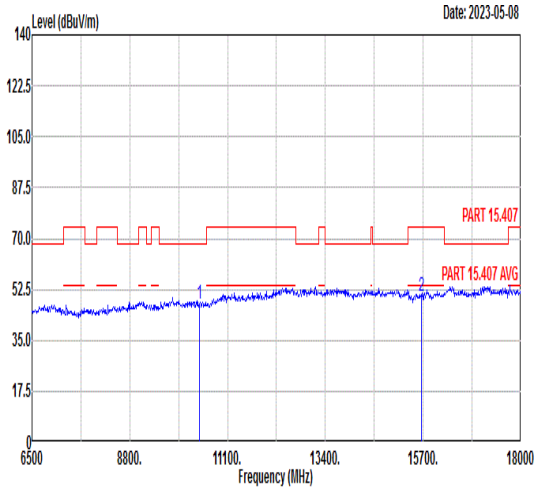
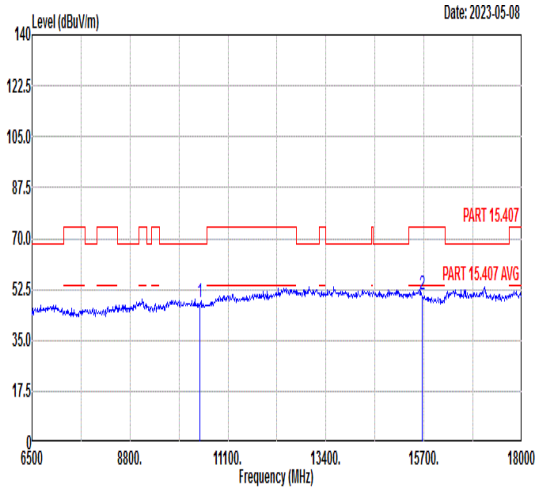
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10360.00 45.91 68.30 -22.39 55.15 37.62 13.48 60.34 --- --- Peak 2 15540.00 50.10 74.00 -23.90 52.58 40.56 15.54 58.58 --- --- 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 10360.00 46.28 68.30 -22.02 55.52 37.62 13.48 60.34 --- --- Peak 2 15540.00 50.59 74.00 -23.41 53.07 40.56 15.54 58.58 --- --- Peak

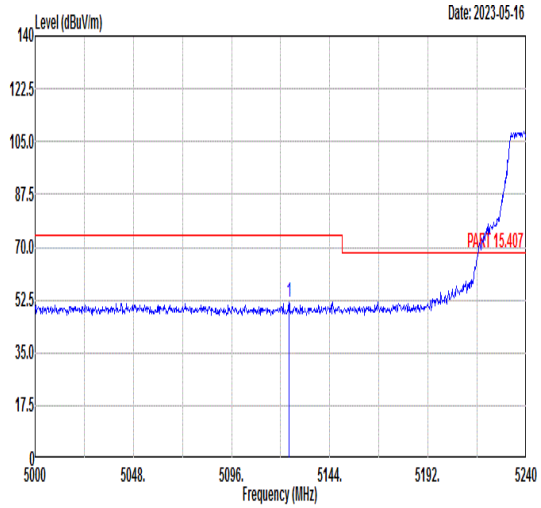
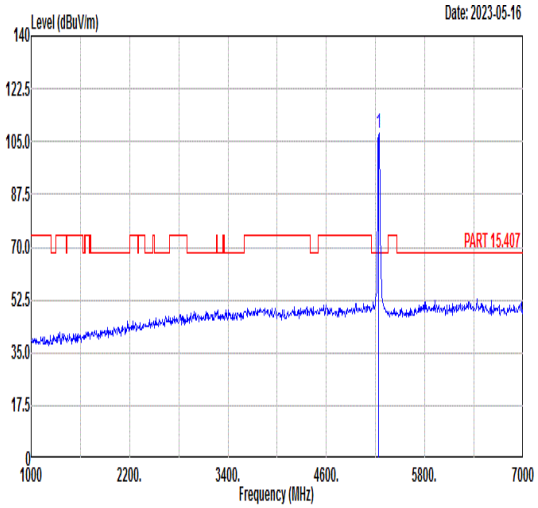
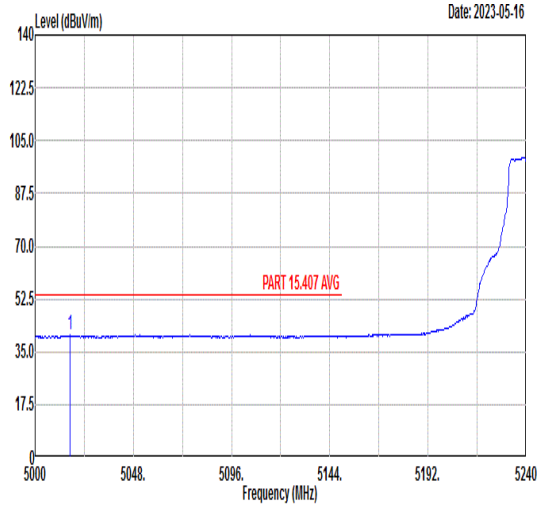
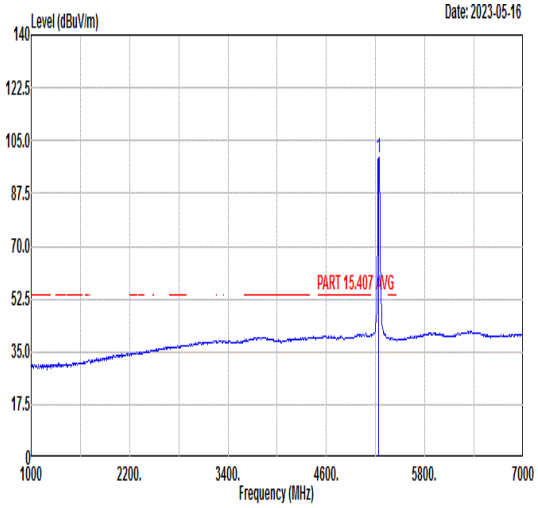
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5032.56 51.80 74.00 -22.20 42.03 34.59 7.84 32.66 200 156 PEAK	 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 5220.00 107.88 ------ ------ 98.35 34.51 7.98 32.96 200 156 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 5100.32 40.65 54.00 -13.35 30.97 34.56 7.89 32.77 200 156 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 5220.00 98.45 ------ ------ 88.92 34.51 7.99 32.97 200 156 AVERAGE

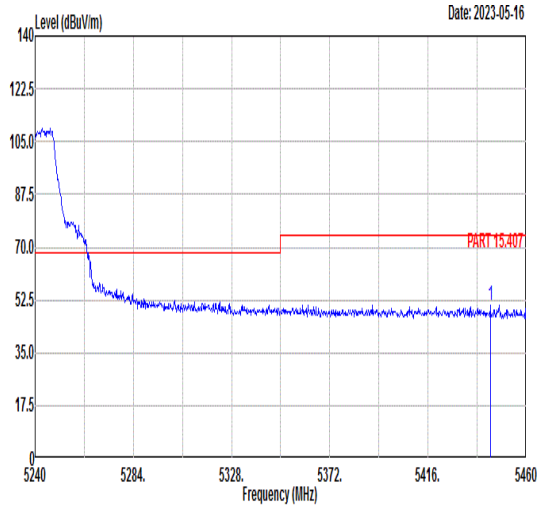
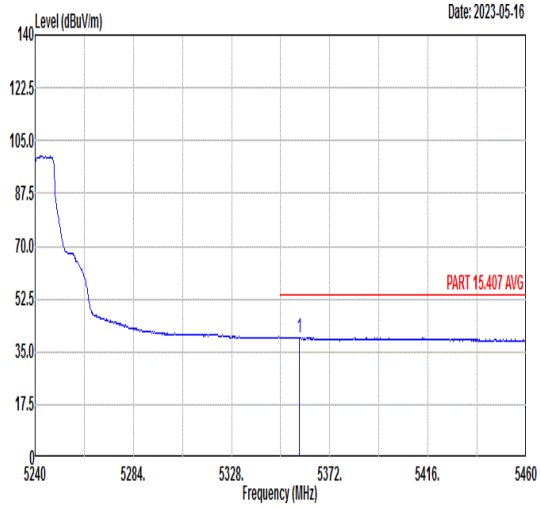
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5427.84 50.45 74.00 -23.55 40.87 34.43 8.45 33.30 200 156 PEAK	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 5420.88 39.45 54.00 -14.55 29.84 34.43 8.46 33.28 200 156 AVERAGE	Blank

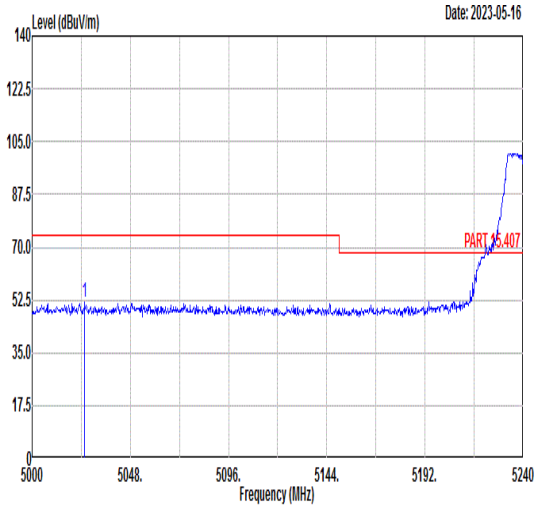
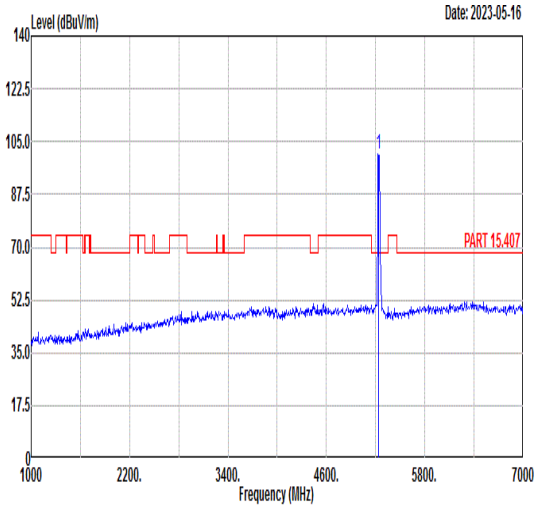
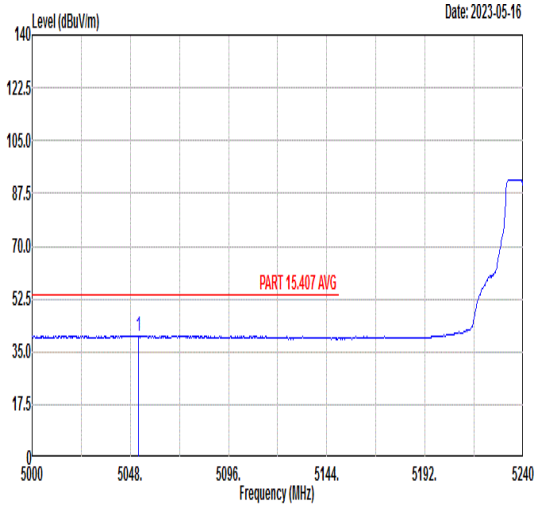
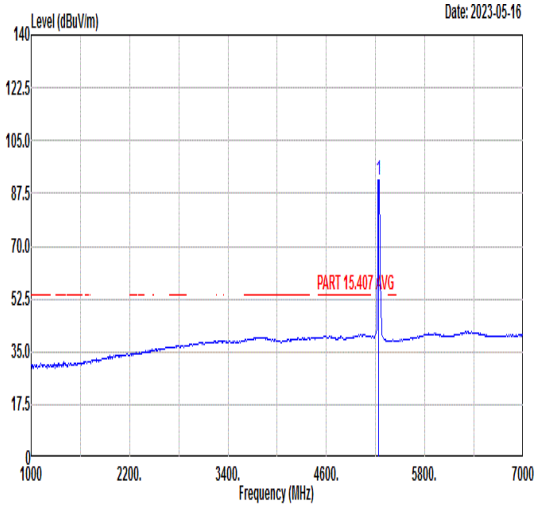
Mode	2	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5024.64 51.59 74.00 -22.41 41.80 34.59 7.84 32.64 268 130 PEAK	 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 5220.00 100.18 ------ ------ 90.65 34.51 7.99 32.97 268 130 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 5048.62 40.33 54.00 -13.67 30.58 34.58 7.85 32.68 268 130 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 5220.00 92.67 ------ ------ 83.14 34.51 7.99 32.97 268 130 AVERAGE

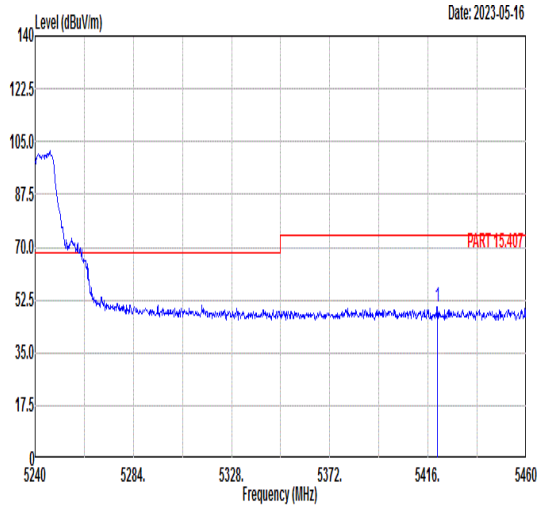
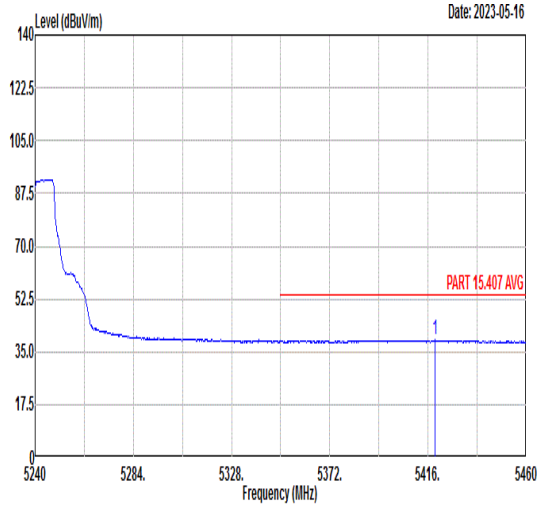
Mode	2	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5386.08 50.37 74.00 -23.63 40.73 34.45 8.42 33.23 268 130 PEAK	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 5407.44 38.97 54.00 -15.03 29.31 34.44 8.48 33.26 268 130 AVERAGE	Blank

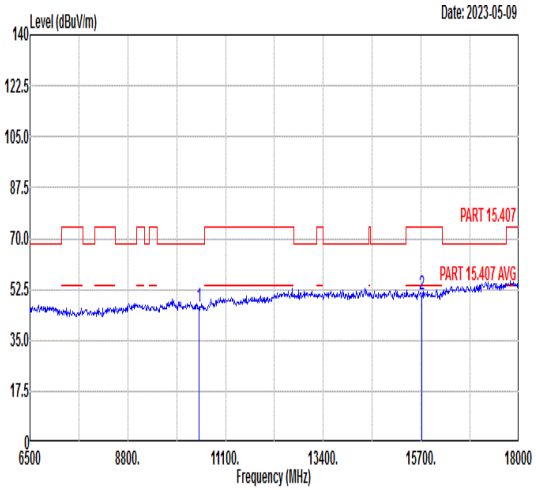
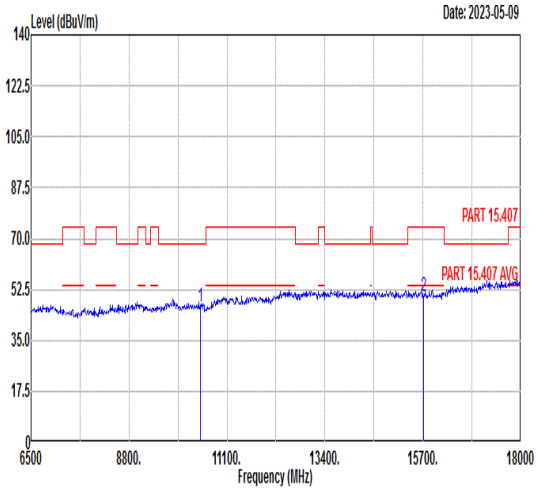
Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 47.65 68.30 -20.65 56.86 37.66 13.51 60.38 --- --- Peak 2 15660.00 50.02 74.00 -23.98 52.68 40.60 15.56 58.82 --- --- 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 10440.00 47.92 68.30 -20.38 57.13 37.66 13.51 60.38 --- --- Peak 2 15660.00 50.89 74.00 -23.11 53.55 40.60 15.56 58.82 --- --- Peak

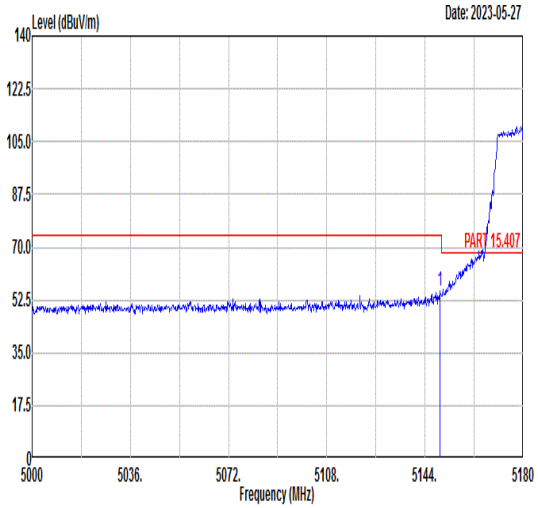
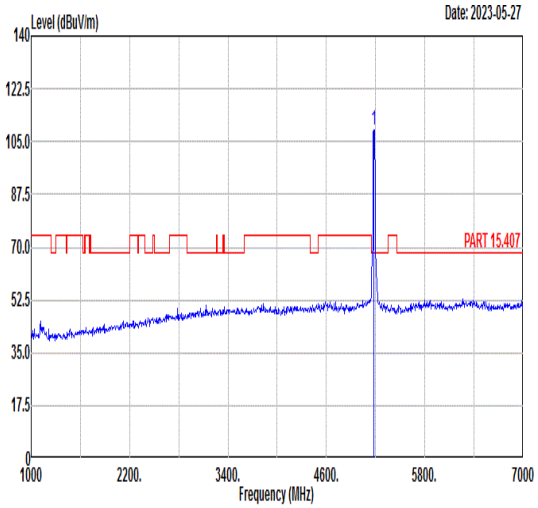
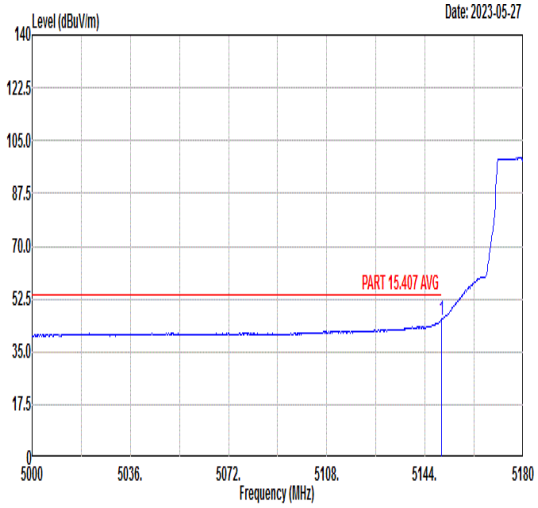
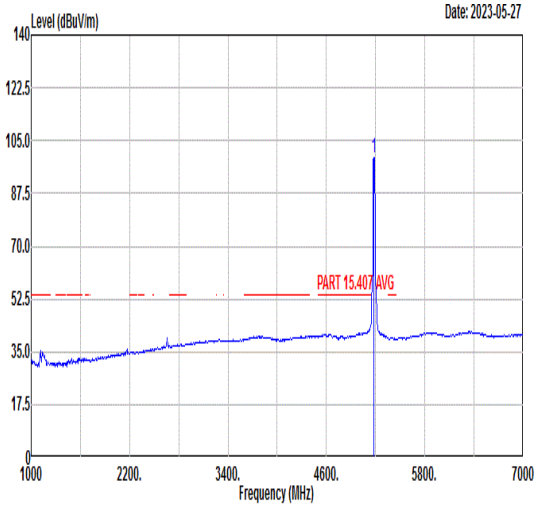
Mode	3	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5124.08 51.68 74.00 -22.32 42.03 34.55 7.90 32.80 200 147 PEAK	 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 5240.00 107.57 ------ ------ 98.03 34.50 8.04 33.00 200 147 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 5017.04 40.53 54.00 -13.47 30.74 34.59 7.83 32.63 200 147 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 5240.00 99.58 ------ ------ 90.04 34.50 8.04 33.00 200 147 AVERAGE

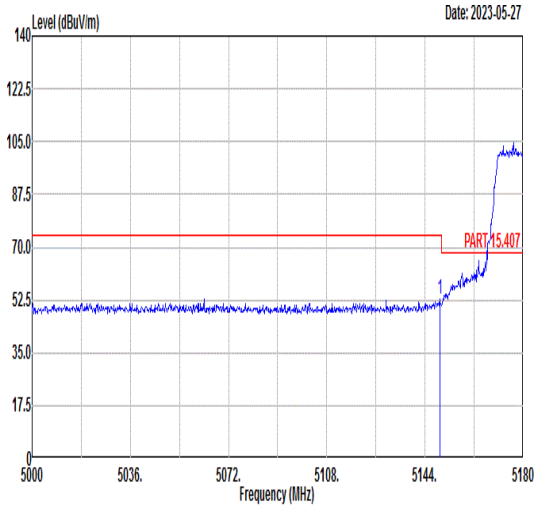
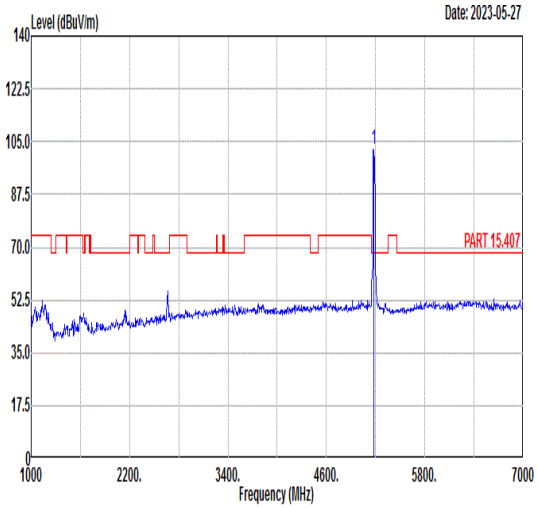
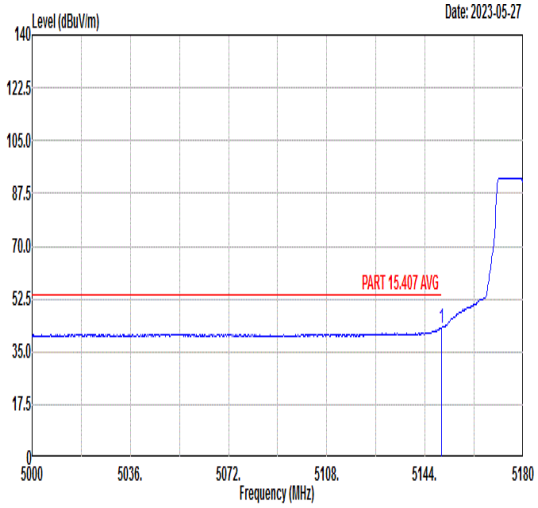
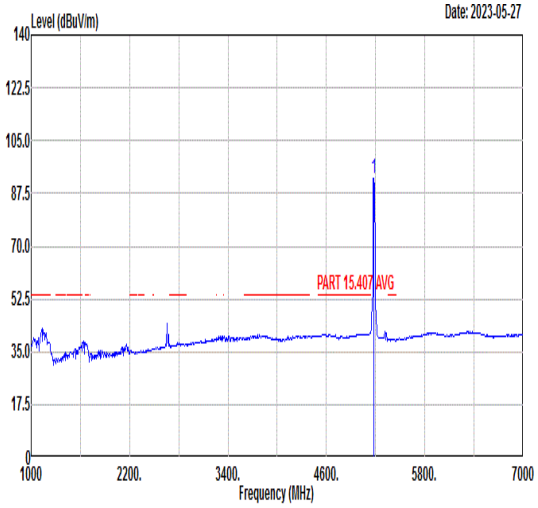
Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5443.94 50.83 74.00 -23.17 41.30 34.42 8.43 33.32 200 147 PEAK	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 5358.36 39.74 54.00 -14.26 30.11 34.46 8.35 33.18 200 147 AVERAGE	Blank

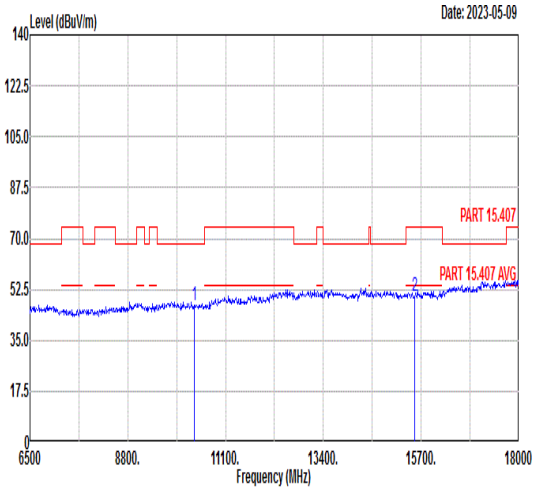
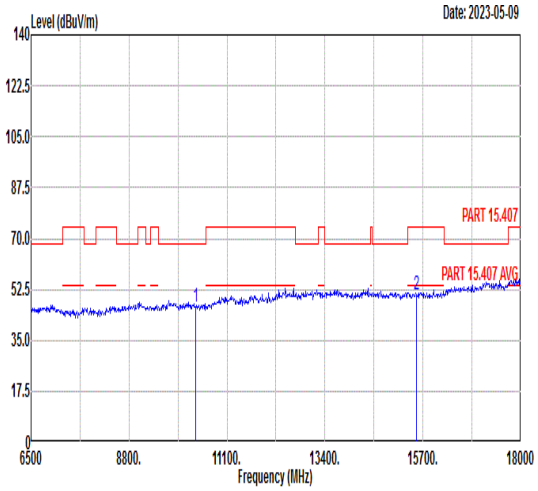
Mode	3	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5025.68 51.75 74.00 -22.25 41.96 34.59 7.84 32.64 400 150 PEAK	 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 5240.00 100.72 ------ ------ 91.18 34.51 8.01 32.98 400 150 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 5052.08 40.27 54.00 -13.73 30.53 34.58 7.85 32.69 400 150 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 5240.00 92.12 ------ ------ 82.56 34.50 8.06 33.00 400 150 AVERAGE

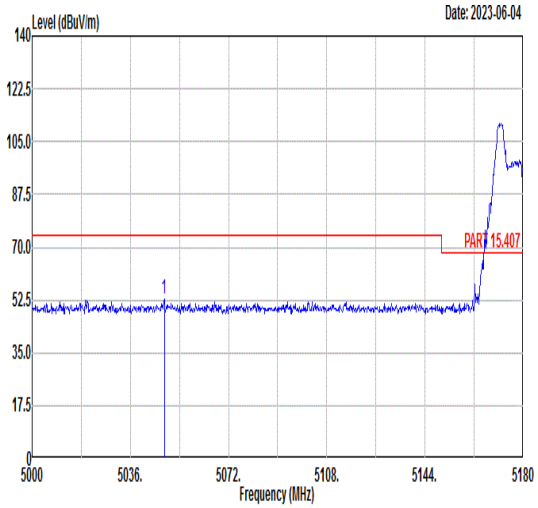
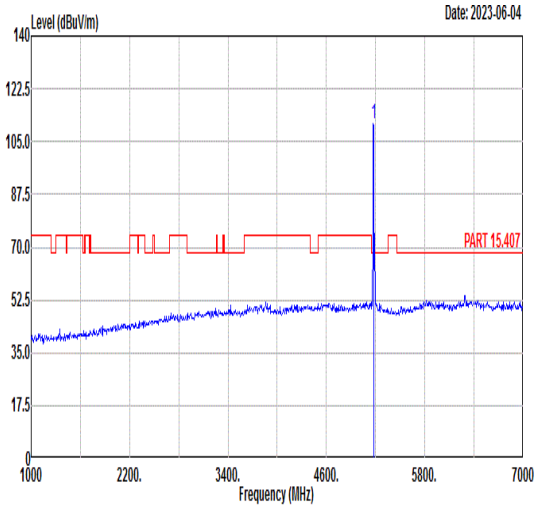
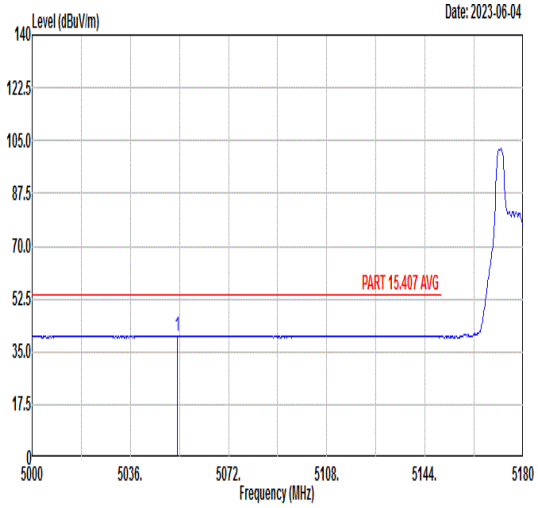
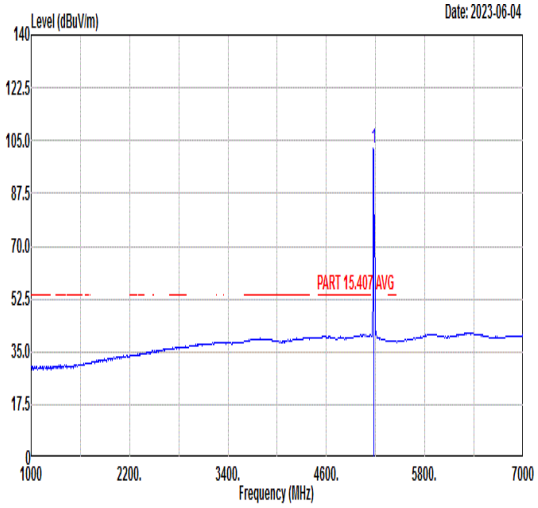
Mode	3	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5420.18 50.13 74.00 -23.87 40.52 34.43 8.46 33.28 400 150 PEAK	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 5419.30 38.88 54.00 -15.12 29.27 34.43 8.46 33.28 400 150 AVERAGE	Blank

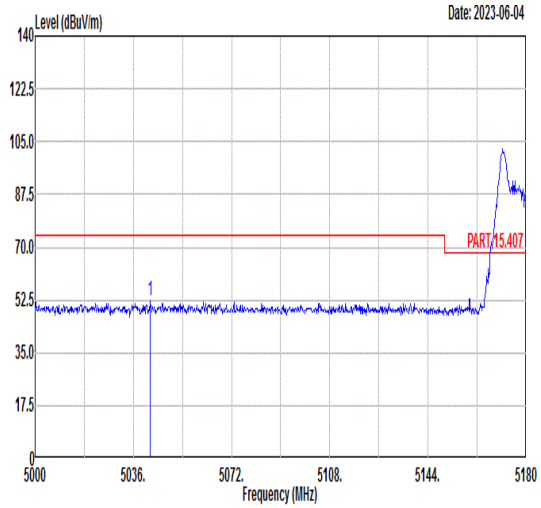
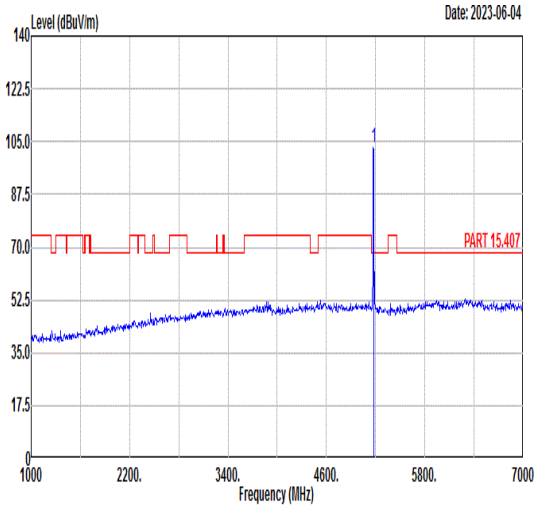
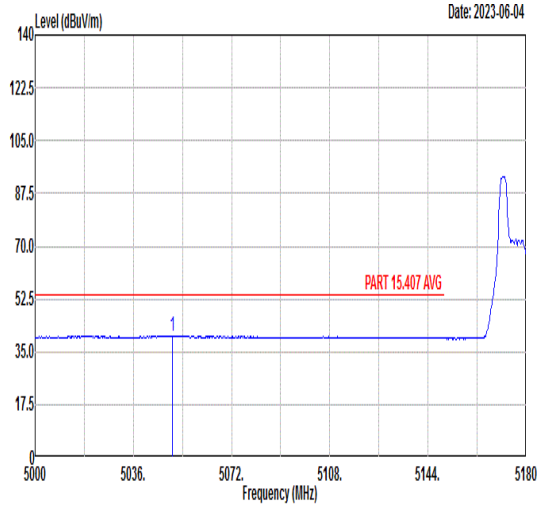
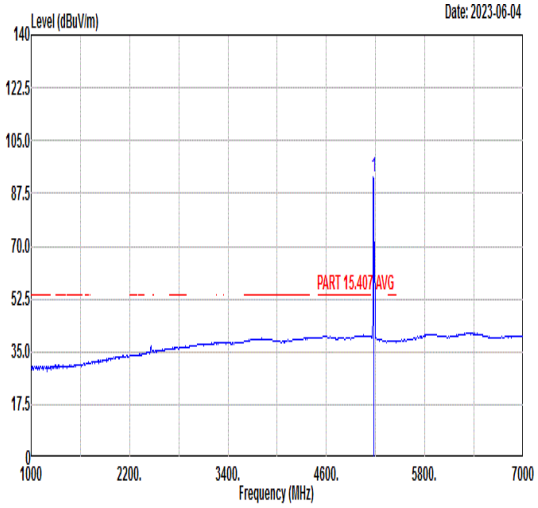
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 46.59 68.30 -21.71 55.76 37.69 13.53 60.39 --- --- Peak 2 15720.00 50.66 74.00 -23.34 53.40 40.62 15.58 58.94 --- --- 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 10480.00 46.34 68.30 -21.96 55.51 37.69 13.53 60.39 --- --- Peak 2 15720.00 50.05 74.00 -23.95 52.79 40.62 15.58 58.94 --- --- Peak

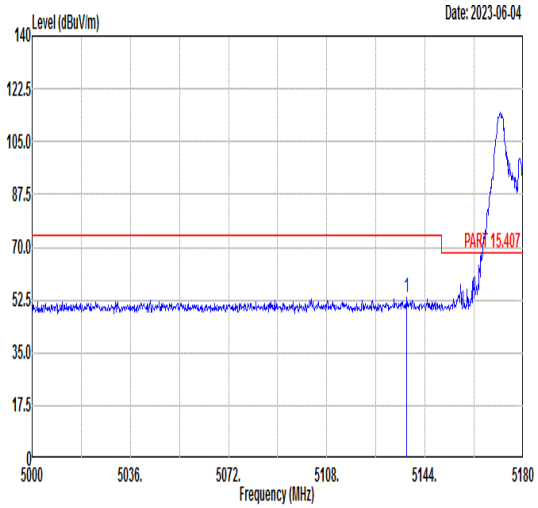
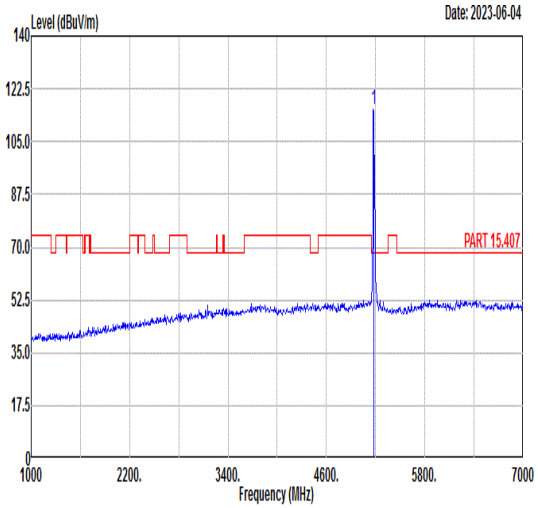
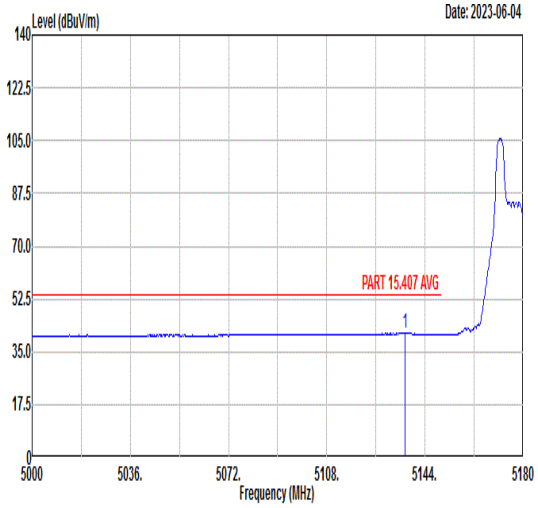
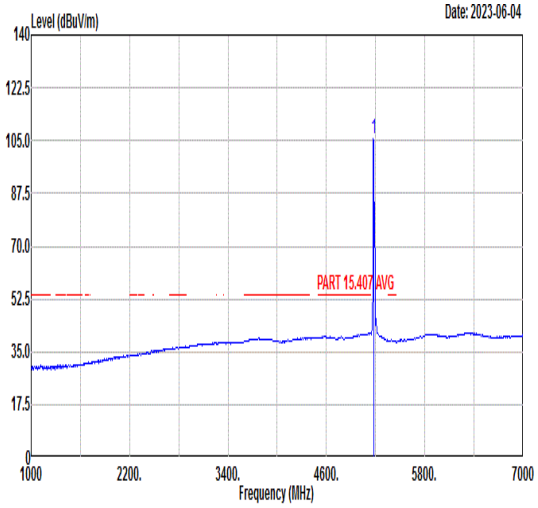
Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_Full RU_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.40 55.54 74.00 -18.46 45.93 34.54 7.92 32.85 127 156 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 5180.00 109.08 ------ ------ 99.50 34.53 7.94 32.89 127 156 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 5149.94 45.66 54.00 -8.34 36.05 34.54 7.92 32.85 127 156 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 5180.00 99.33 ------ ------ 89.78 34.52 7.94 32.91 127 156 AVERAGE

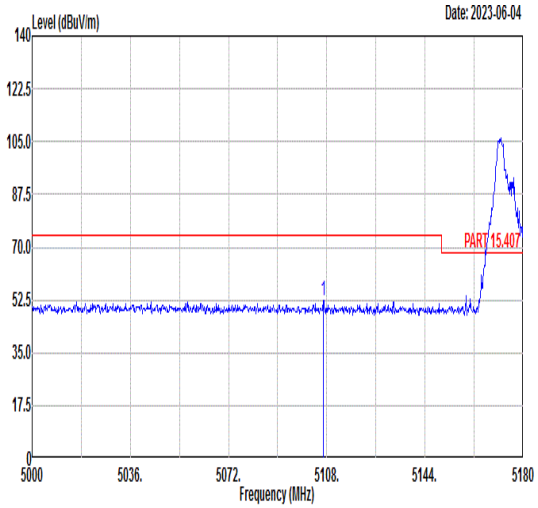
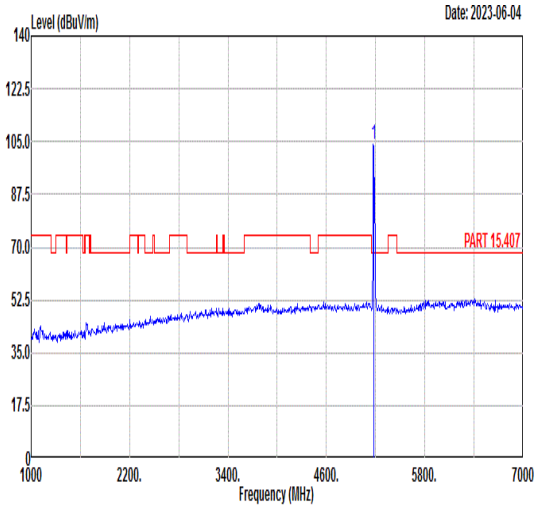
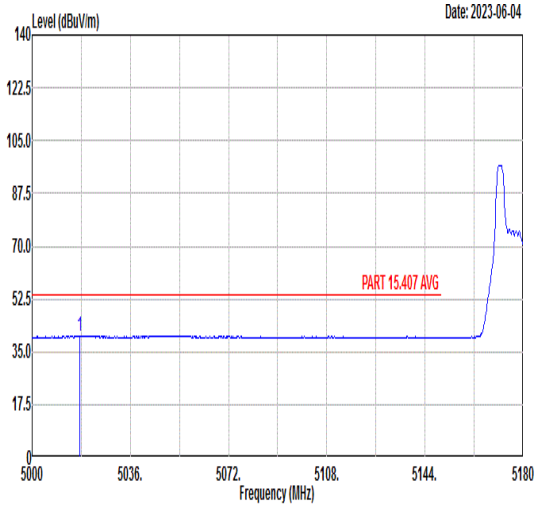
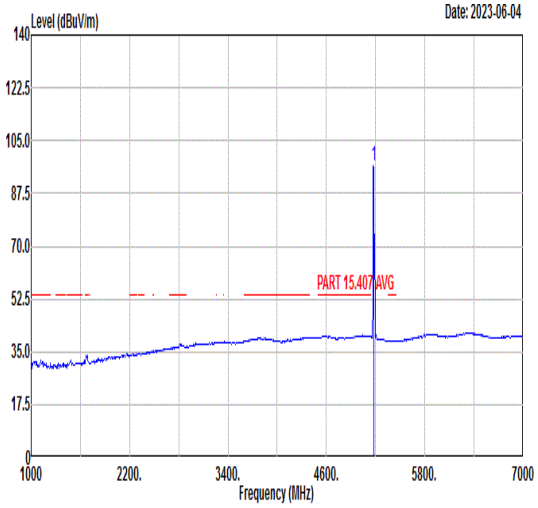
Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_Full RU_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.40 52.81 74.00 -21.19 43.20 34.54 7.92 32.85 380 202 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 5180.00 102.37 ------ ------ 92.79 34.53 7.93 32.88 380 202 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 5149.94 42.87 54.00 -11.13 33.26 34.54 7.92 32.85 380 202 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 5180.00 92.35 ------ ------ 82.77 34.53 7.93 32.88 380 202 AVERAGE

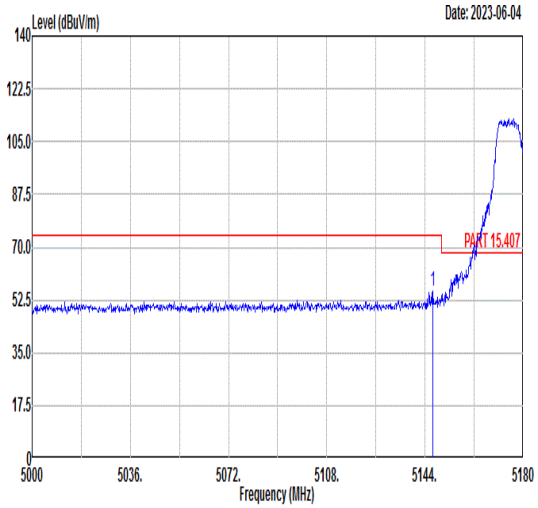
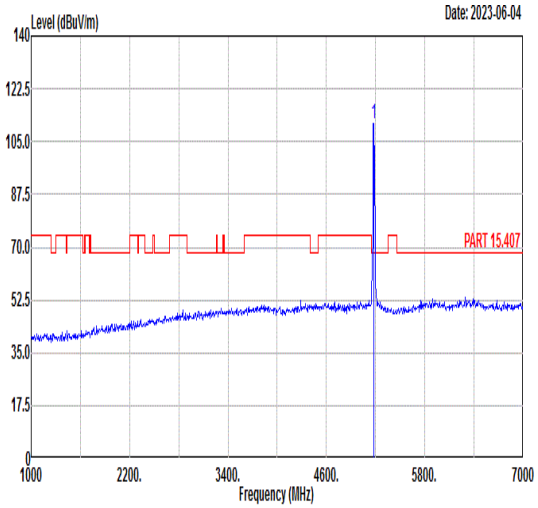
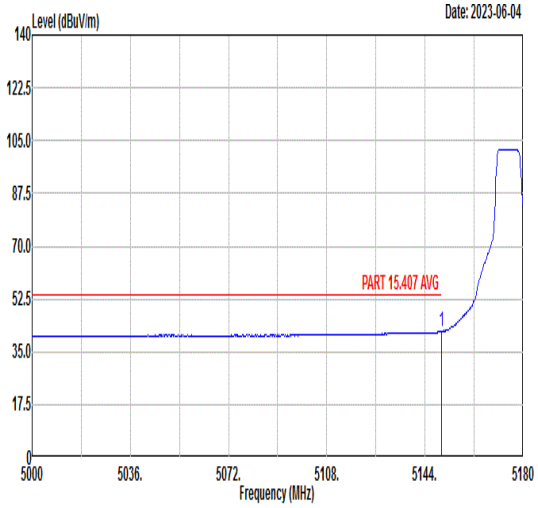
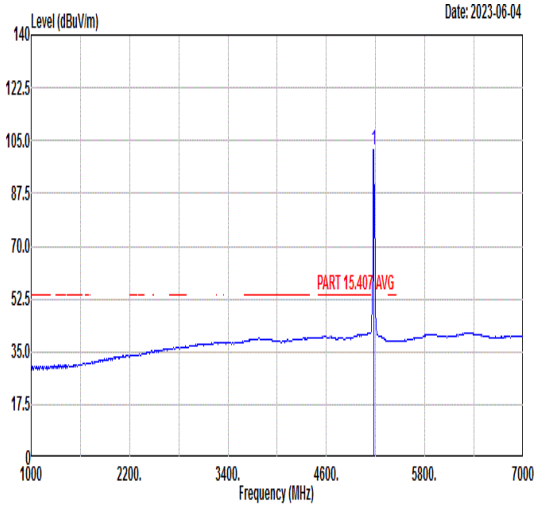
Mode	4	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_Full RU_5180MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10360.00 46.93 68.30 -21.37 56.17 37.62 13.48 60.34 --- --- Peak 2 15540.00 50.36 74.00 -23.64 52.84 40.56 15.54 58.58 --- --- 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 10360.00 46.75 68.30 -21.55 55.99 37.62 13.48 60.34 --- --- Peak 2 15540.00 50.60 74.00 -23.40 53.08 40.56 15.54 58.58 --- --- Peak

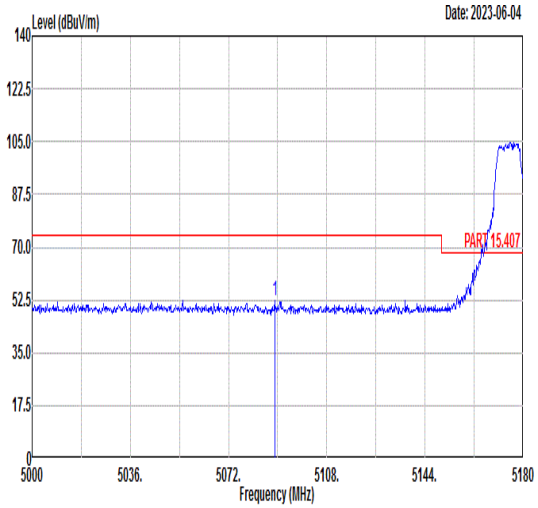
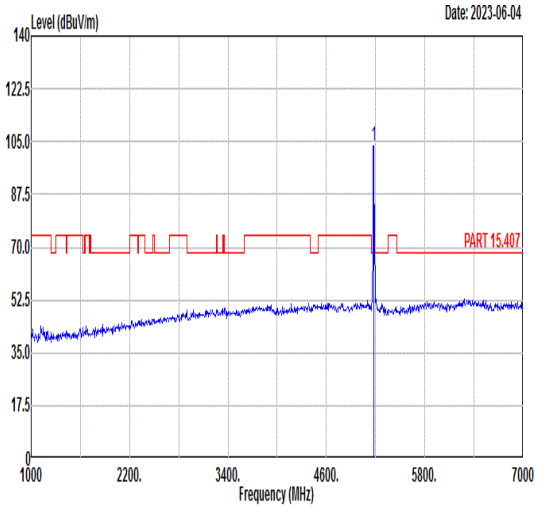
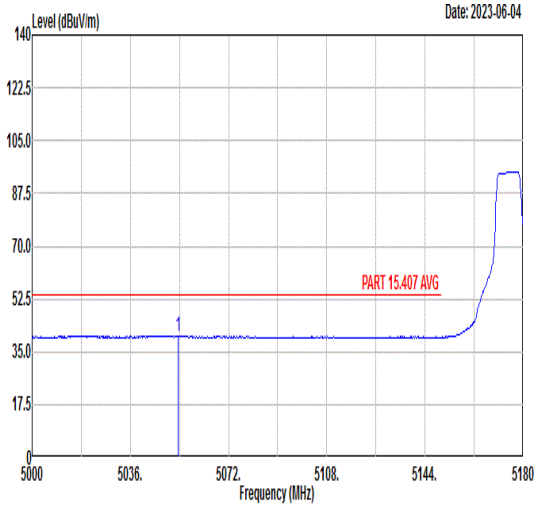
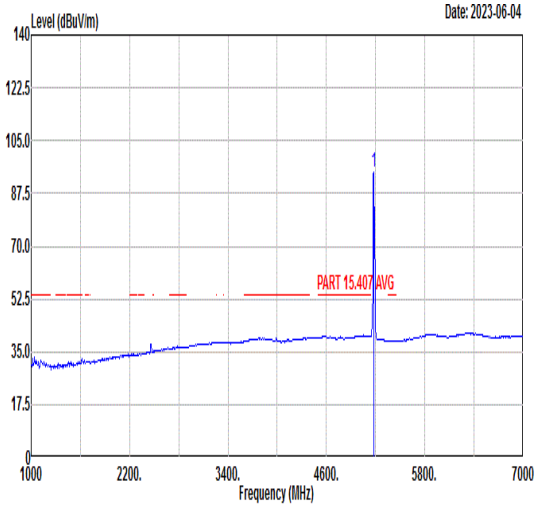
Mode	5	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_ RU26/0_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5048.42 52.70 74.00 -21.30 42.95 34.58 7.85 32.68 200 78 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 5180.00 110.72 ------ ------ 101.14 34.53 7.93 32.88 200 78 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 5053.28 40.39 54.00 -13.61 30.65 34.58 7.85 32.69 200 78 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 5180.00 102.23 ------ ------ 92.65 34.53 7.93 32.88 200 78 AVERAGE

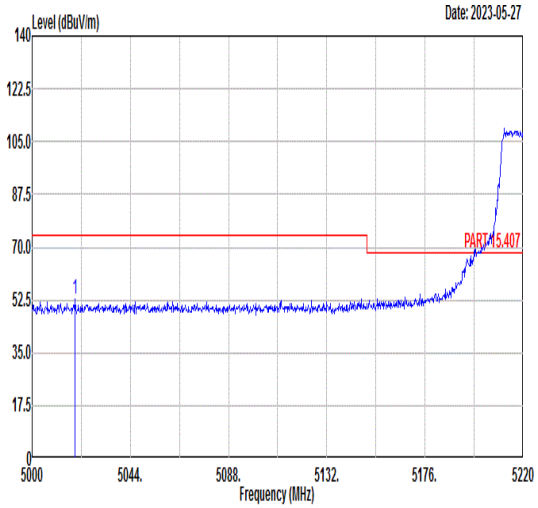
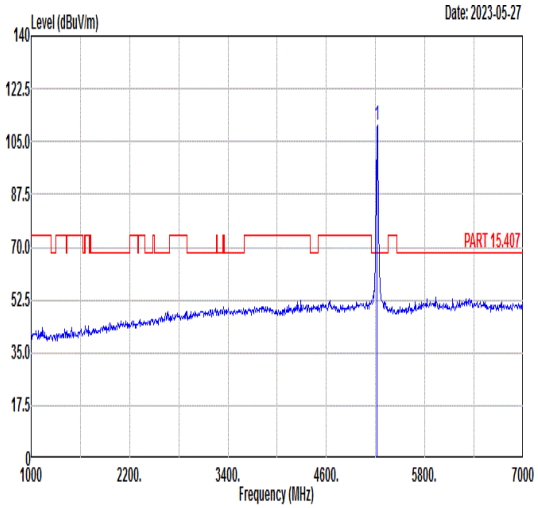
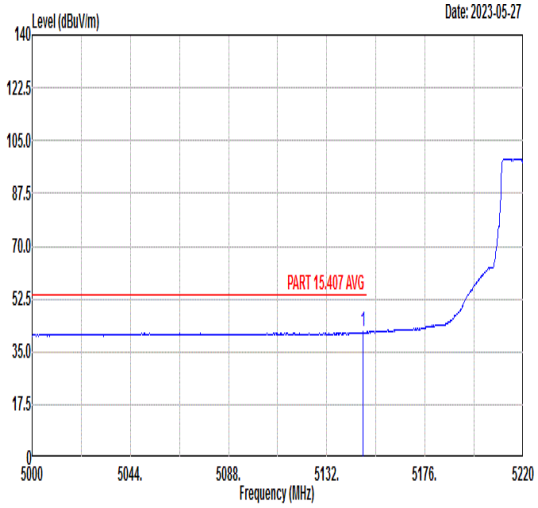
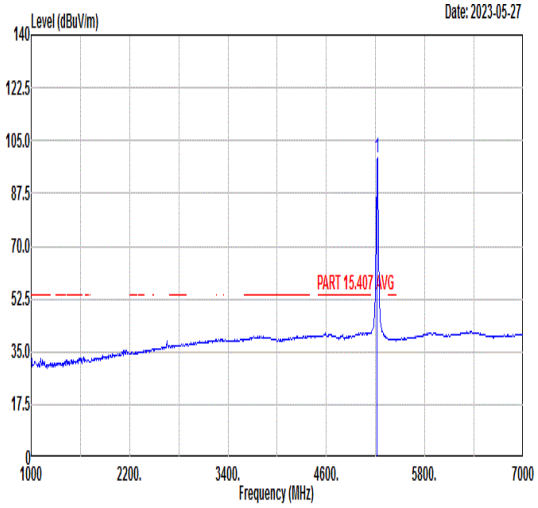
Mode	5	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_ RU26/0_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5042.30 52.17 74.00 -21.83 42.41 34.58 7.85 32.67 298 188 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 5180.00 103.01 ------ ------ 93.43 34.53 7.93 32.88 298 188 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 5050.40 40.24 54.00 -13.76 30.49 34.58 7.85 32.68 298 188 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 5180.00 93.00 ------ ------ 83.42 34.53 7.93 32.88 298 188 AVERAGE

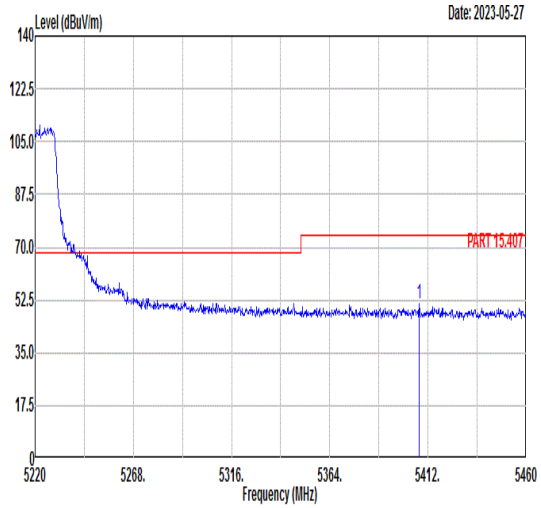
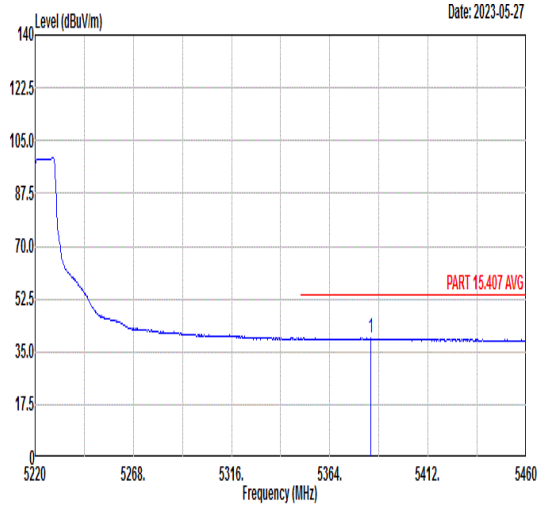
Mode	6	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_RU52/37_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5137.34 53.40 74.00 -20.60 43.77 34.55 7.91 32.83 200 83 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 5180.00 115.51 ------ ------ 105.93 34.53 7.93 32.88 200 83 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 5136.80 41.33 54.00 -12.67 31.69 34.55 7.91 32.82 200 83 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 5180.00 105.46 ------ ------ 95.88 34.53 7.93 32.88 200 83 AVERAGE

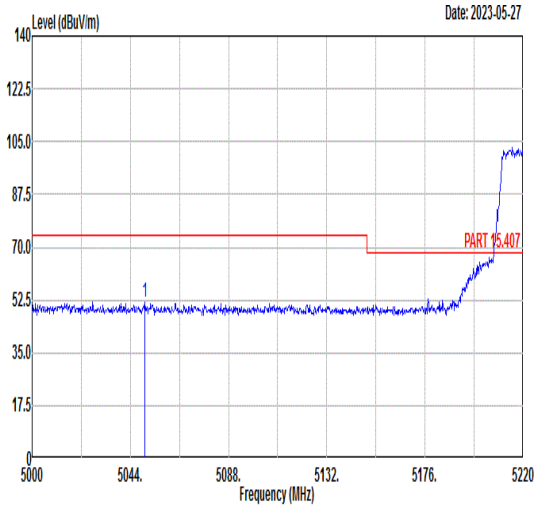
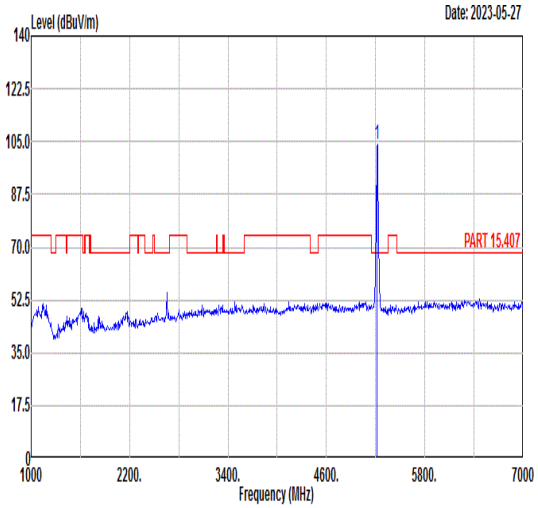
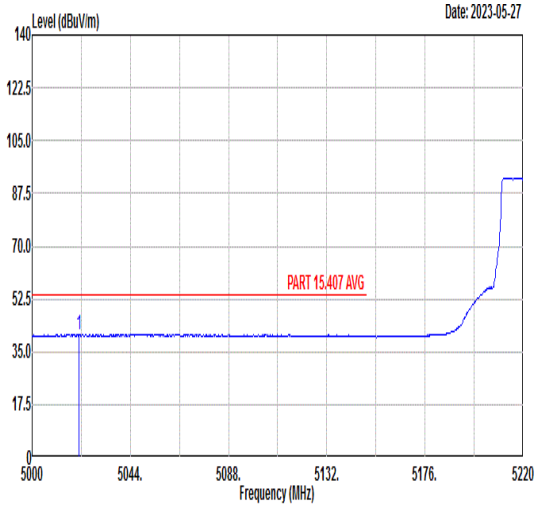
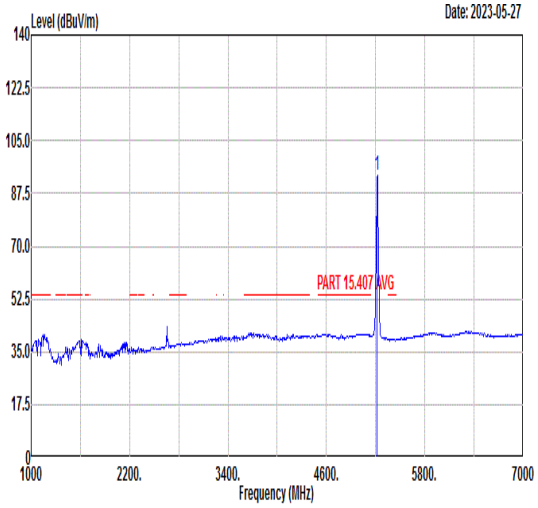
Mode	6	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_RU52/37_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5106.74 52.10 74.00 -21.90 42.43 34.56 7.89 32.78 305 180 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 5180.00 104.26 ------ ------ 94.68 34.53 7.93 32.88 305 180 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 5017.46 40.16 54.00 -13.84 30.37 34.59 7.83 32.63 305 180 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 5180.00 96.57 ------ ------ 86.99 34.53 7.93 32.88 305 180 AVERAGE

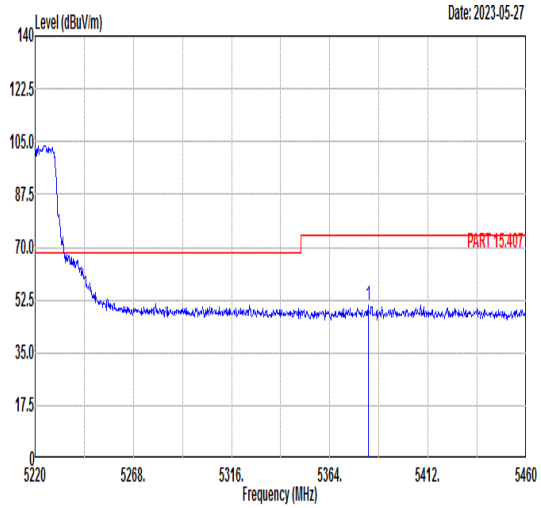
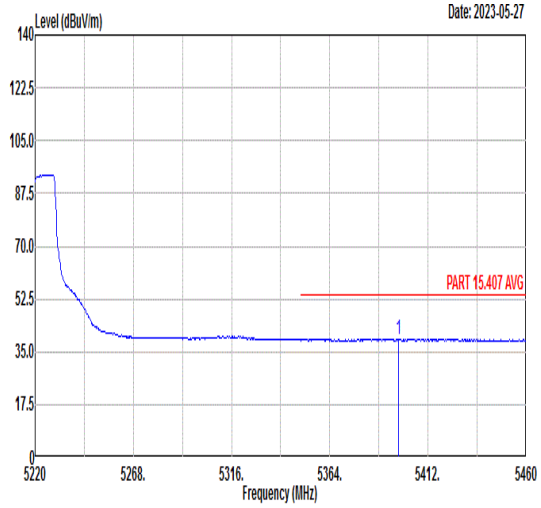
Mode	7	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_RU106/53_5180MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5146.88 55.43 74.00 -18.57 45.81 34.54 7.92 32.84 208 86 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 5180.00 110.90 ------ ------ 101.32 34.53 7.94 32.89 208 86 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 5149.94 41.68 54.00 -12.32 32.07 34.54 7.92 32.85 208 86 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 5180.00 101.99 ------ ------ 92.41 34.53 7.93 32.88 208 86 AVERAGE

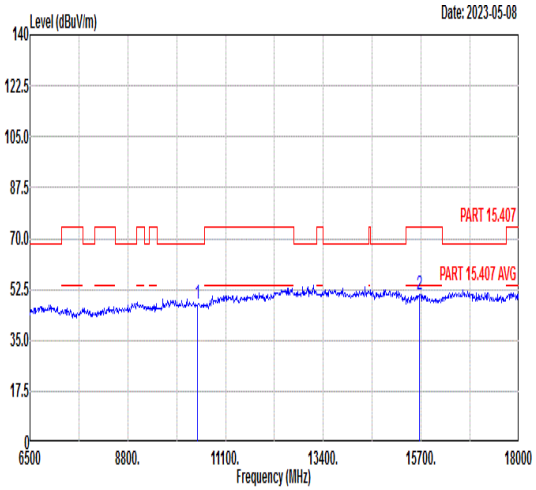
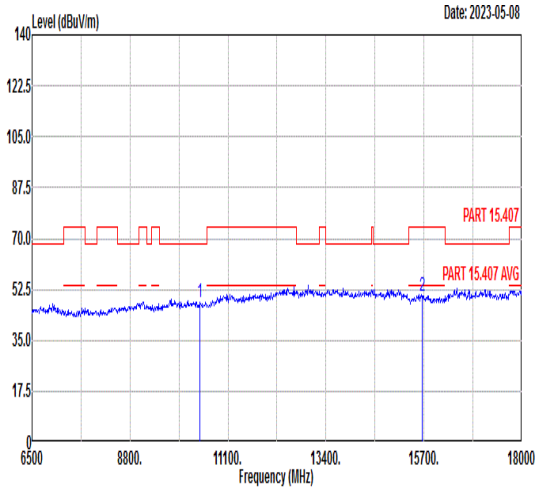
Mode	7	
	Band Edge	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_RU106/53_5180MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5088.92 52.42 74.00 -21.58 42.73 34.56 7.88 32.75 302 189 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 5180.00 103.80 ------ ------ 94.22 34.53 7.94 32.89 302 189 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 5053.64 40.24 54.00 -13.76 30.50 34.58 7.85 32.69 302 189 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 5180.00 94.68 ------ ------ 85.10 34.53 7.94 32.89 302 189 AVERAGE

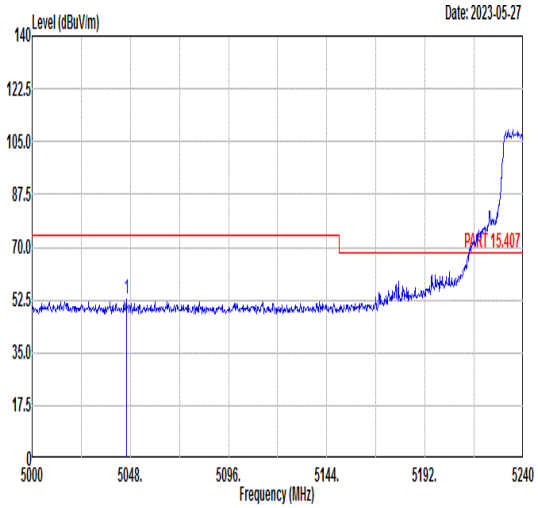
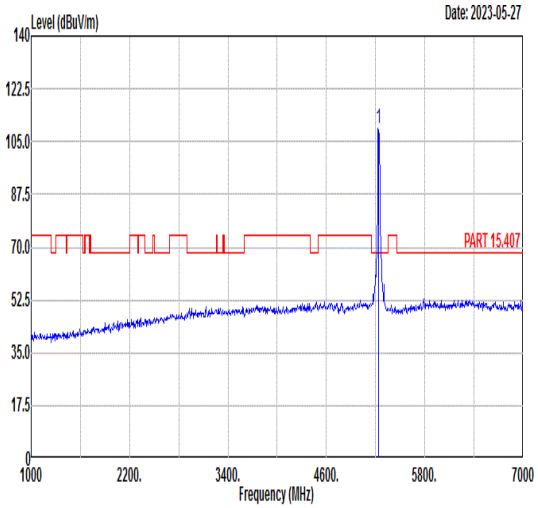
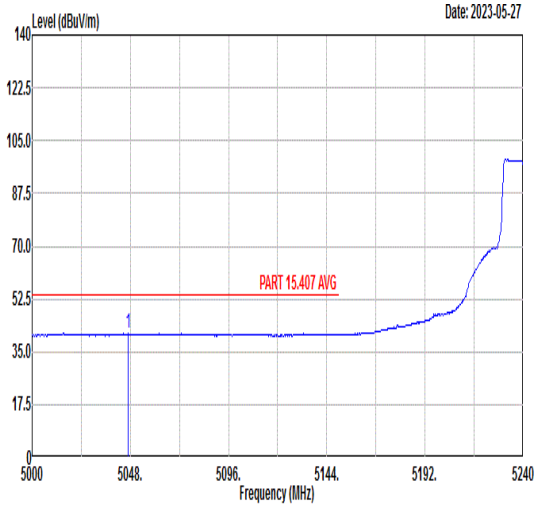
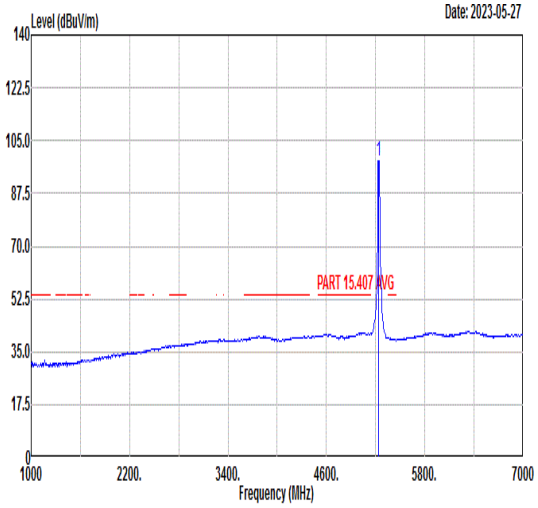
Mode	8	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5019.36 52.69 74.00 -21.31 42.90 34.59 7.83 32.63 254 87 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 5220.00 110.54 ------ ------ 101.00 34.51 8.01 32.98 254 87 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 5148.06 41.51 54.00 -12.49 31.89 34.54 7.92 32.84 254 87 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 5220.00 99.06 ------ ------ 89.52 34.51 8.01 32.98 254 87 AVERAGE

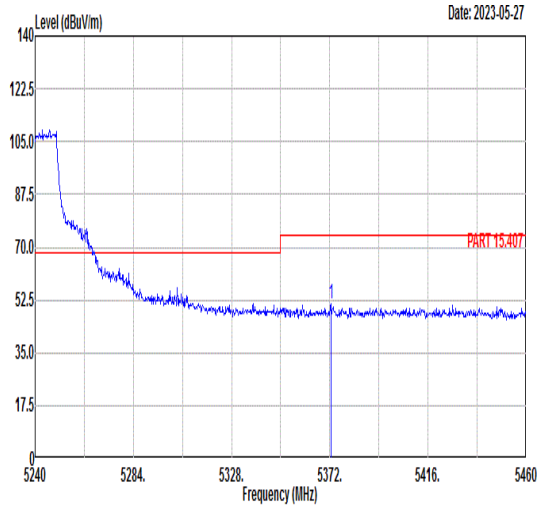
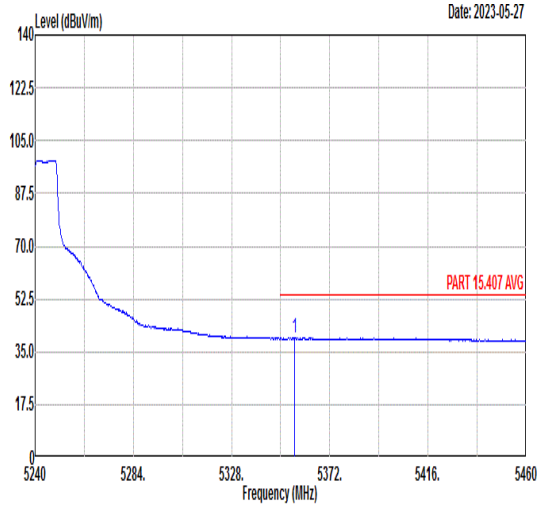
Mode	8	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5407.68 51.01 74.00 -22.99 41.35 34.44 8.48 33.26 254 87 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 5384.16 39.45 54.00 -14.55 29.81 34.45 8.42 33.23 254 87 AVERAGE	Blank

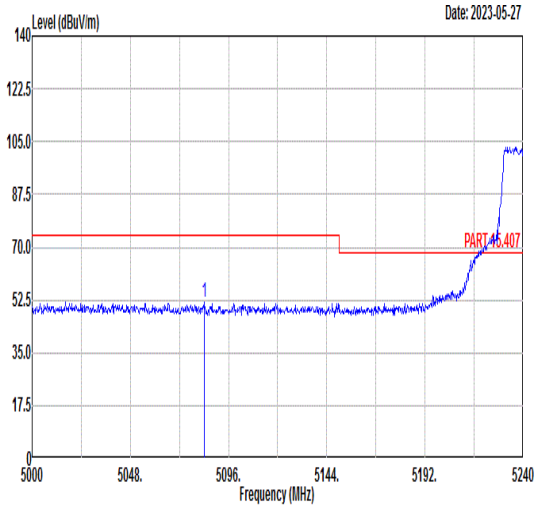
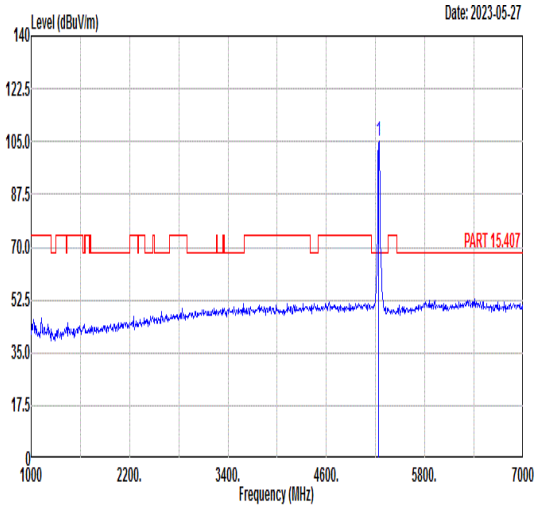
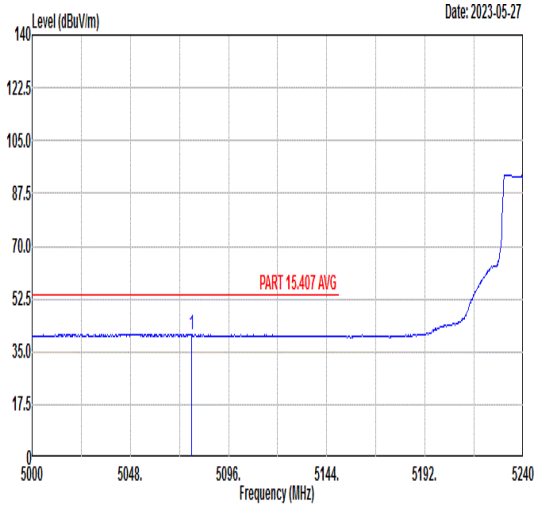
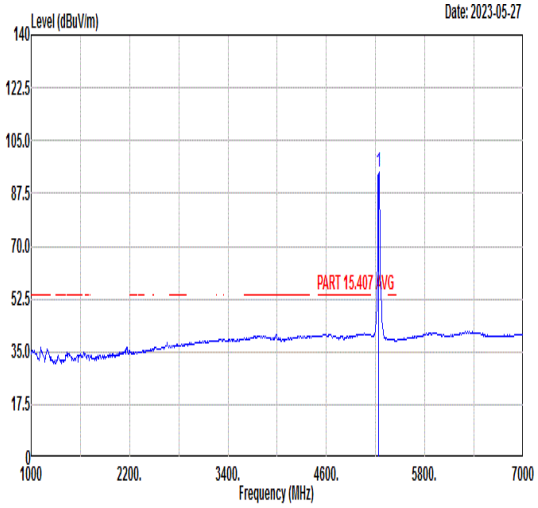
Mode	8	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5050.60 51.91 74.00 -22.09 42.17 34.58 7.85 32.69 314 190 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 5220.00 104.00 ------ ------ 94.47 34.51 7.99 32.97 314 190 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 5021.12 40.90 54.00 -13.10 31.12 34.59 7.83 32.64 314 190 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 5220.00 93.37 ------ ------ 83.84 34.51 7.99 32.97 314 190 AVERAGE

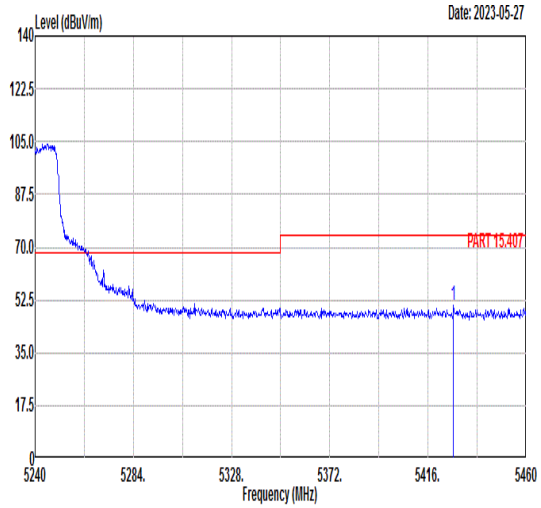
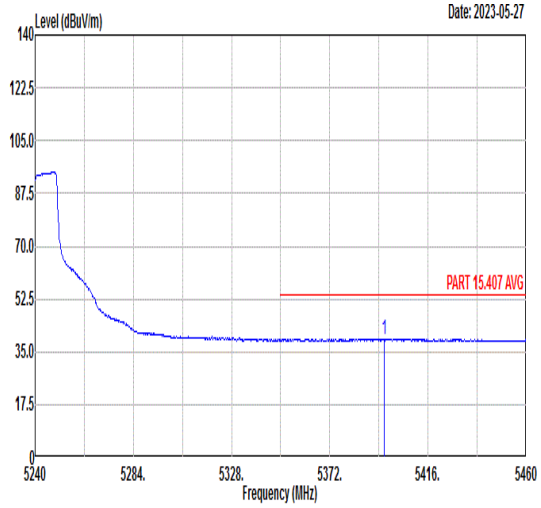
Mode	8	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5382.72 50.82 74.00 -23.18 41.17 34.45 8.42 33.22 314 190 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 5397.60 39.22 54.00 -14.78 29.58 34.44 8.45 33.25 314 190 AVERAGE	Blank

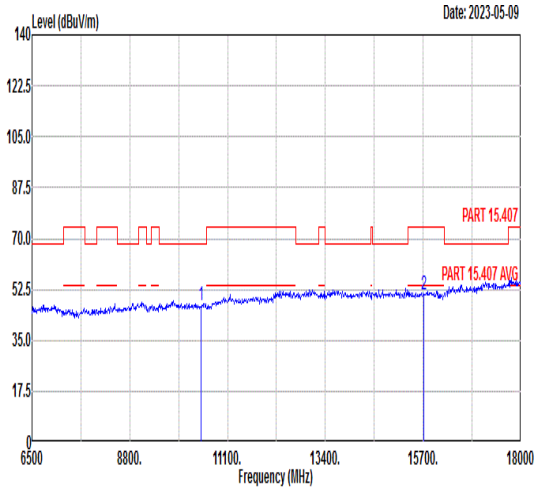
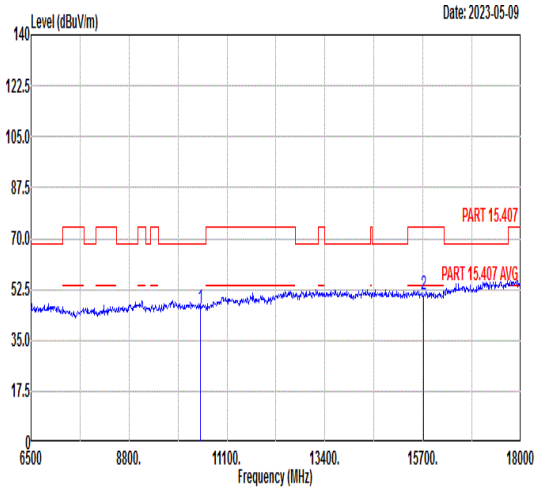
Mode	8	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10440.00 47.73 68.30 -20.57 56.94 37.66 13.51 60.38 --- --- Peak 2 15660.00 50.76 74.00 -23.24 53.42 40.60 15.56 58.82 --- --- 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 10440.00 47.81 68.30 -20.49 57.02 37.66 13.51 60.38 --- --- Peak 2 15660.00 50.03 74.00 -23.97 52.69 40.60 15.56 58.82 --- --- Peak

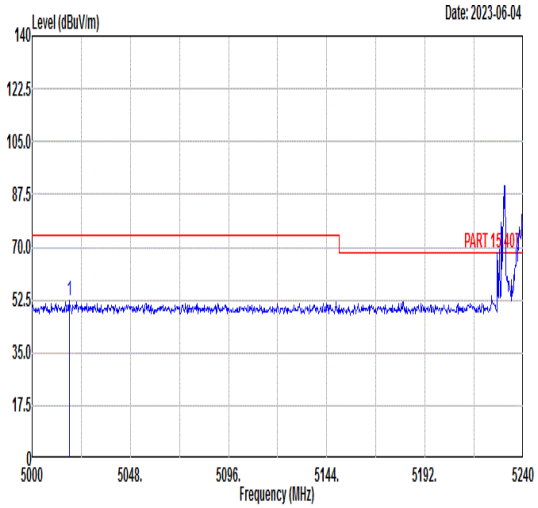
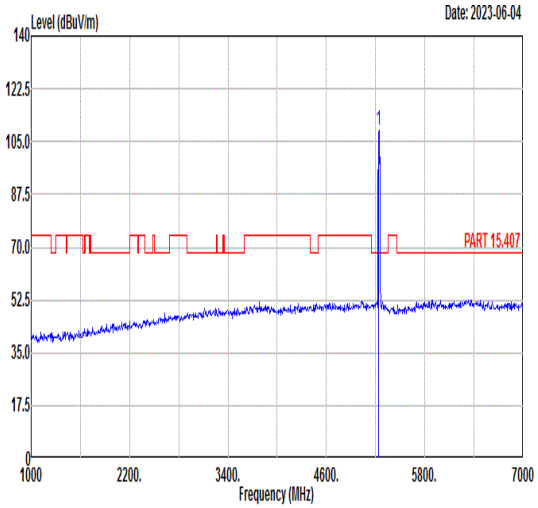
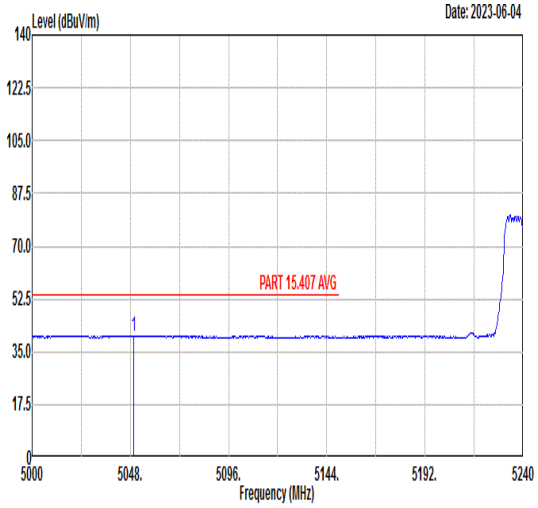
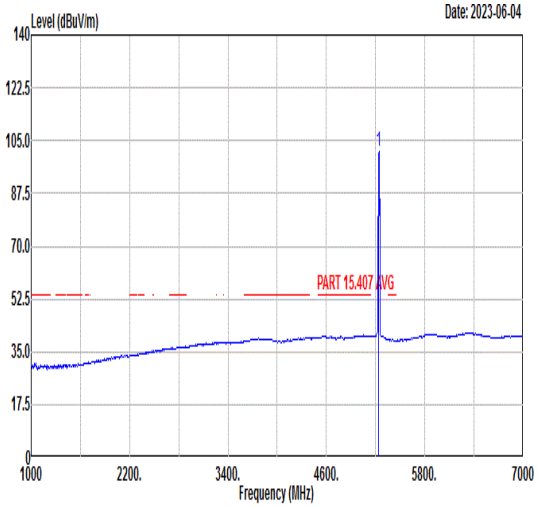
Mode	9	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5046.08 52.94 74.00 -21.06 43.19 34.58 7.85 32.68 151 79 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 5240.00 109.28 ------ ------ 99.74 34.51 8.01 32.98 151 79 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 5047.04 41.05 54.00 -12.95 31.30 34.58 7.85 32.68 151 79 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 5240.00 98.51 ------ ------ 88.97 34.51 8.01 32.98 151 79 AVERAGE

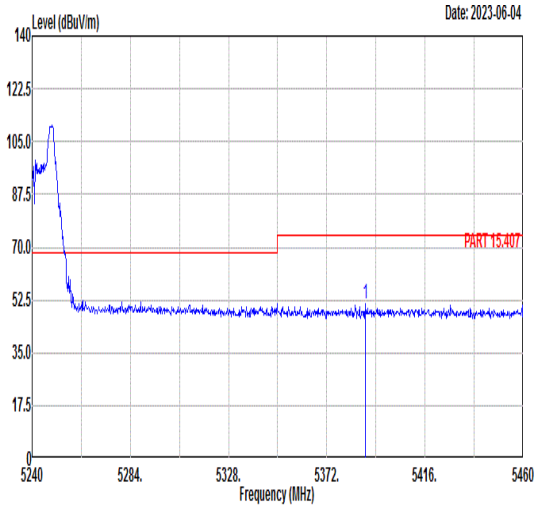
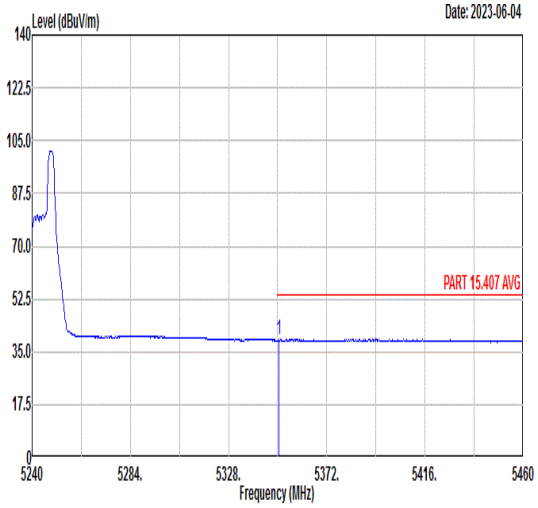
Mode	9	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5372.44 51.39 74.00 -22.61 41.76 34.45 8.39 33.21 151 79 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 5356.16 39.53 54.00 -14.47 29.91 34.46 8.34 33.18 151 79 AVERAGE	Blank

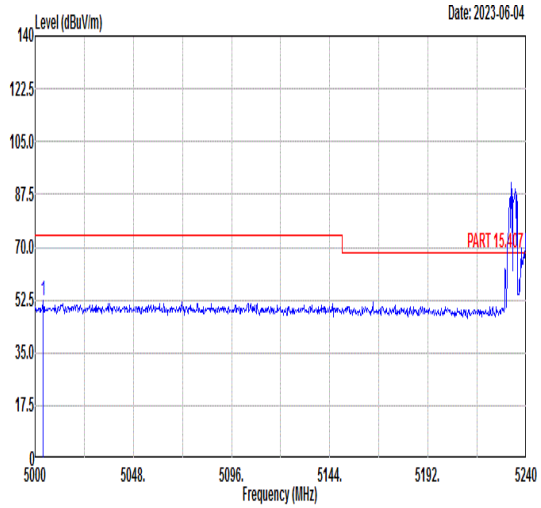
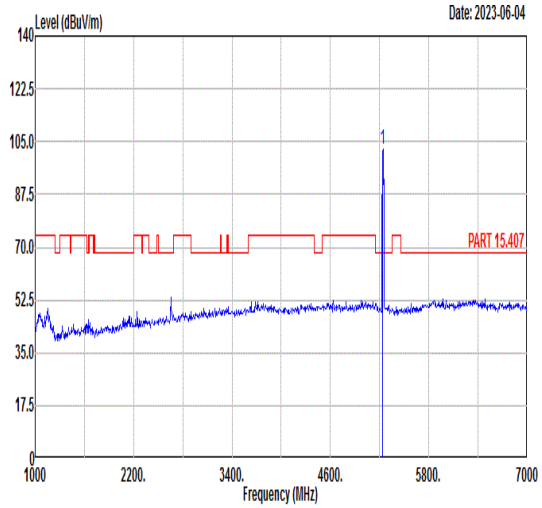
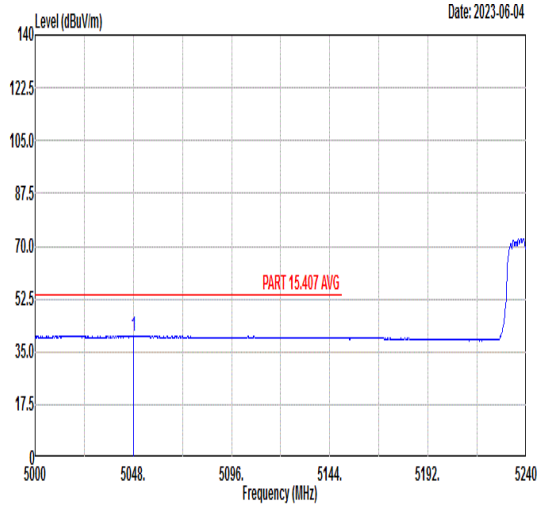
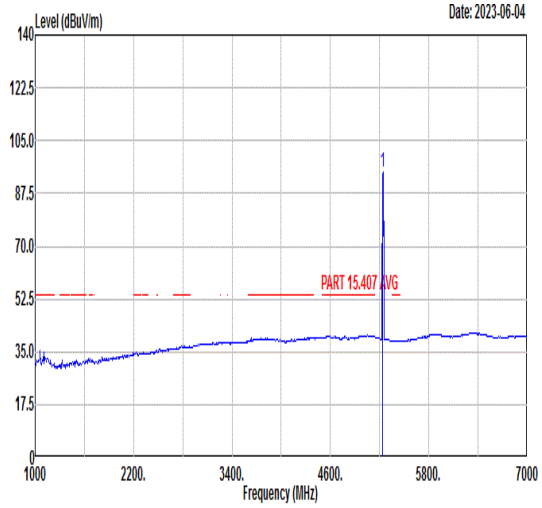
Mode	9	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5084.00 51.89 74.00 -22.11 42.19 34.57 7.87 32.74 347 140 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 5240.00 104.92 ------ ------ 95.36 34.50 8.06 33.00 347 140 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 5077.76 40.80 54.00 -13.20 31.09 34.57 7.87 32.73 347 140 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 5240.00 94.30 ------ ------ 84.74 34.50 8.06 33.00 347 140 AVERAGE

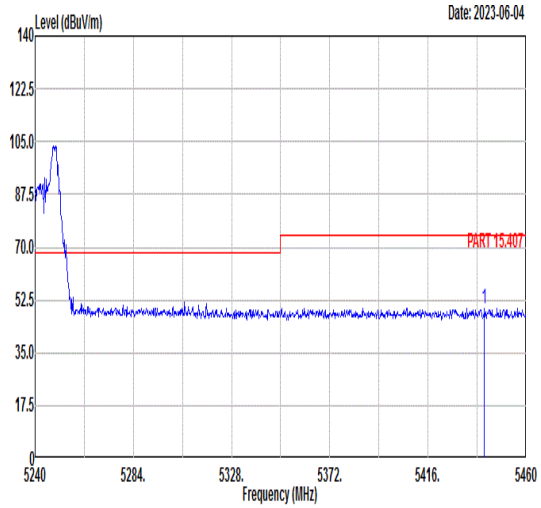
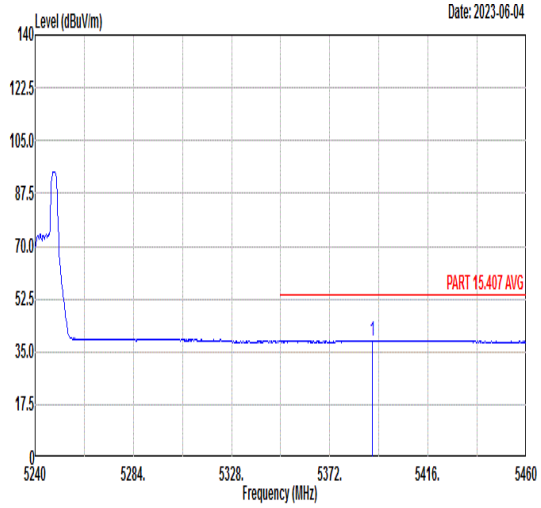
Mode	9	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5427.44 50.50 74.00 -23.50 40.92 34.43 8.45 33.30 347 140 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 5396.42 39.27 54.00 -14.73 29.63 34.44 8.45 33.25 347 140 AVERAGE	Blank

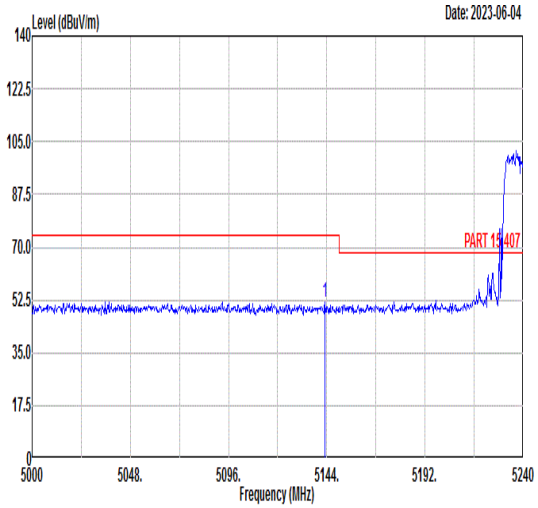
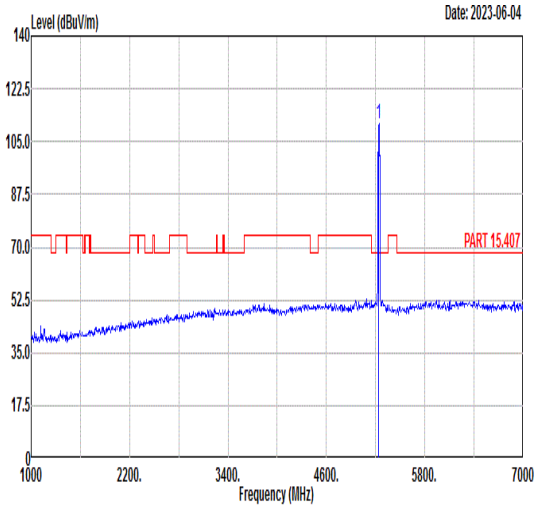
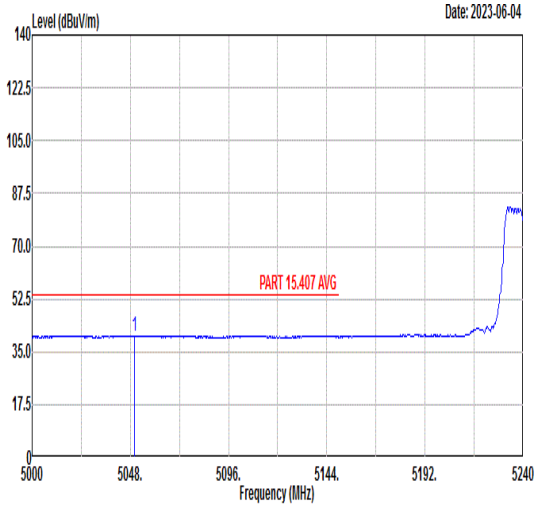
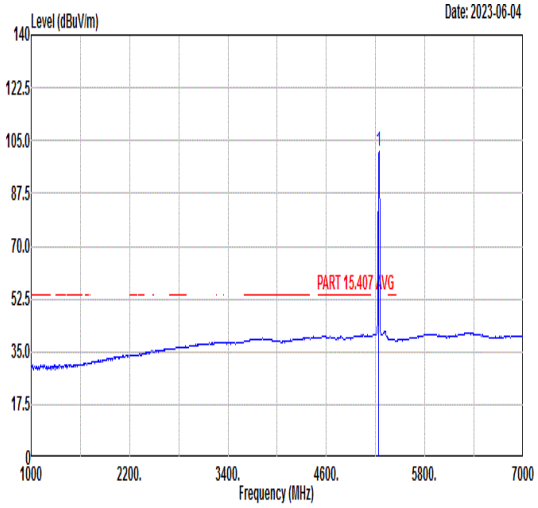
Mode	9	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10480.00 46.84 68.30 -21.46 56.01 37.69 13.53 60.39 --- --- Peak 2 15720.00 50.51 74.00 -23.49 53.25 40.62 15.58 58.94 --- --- 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 10480.00 46.20 68.30 -22.10 55.37 37.69 13.53 60.39 --- --- Peak 2 15720.00 50.60 74.00 -23.40 53.34 40.62 15.58 58.94 --- --- Peak

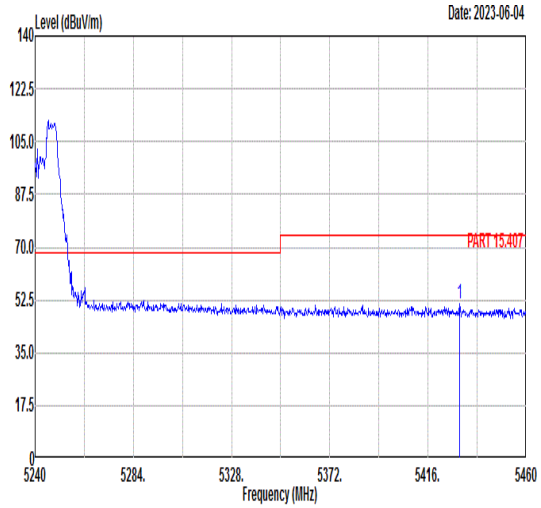
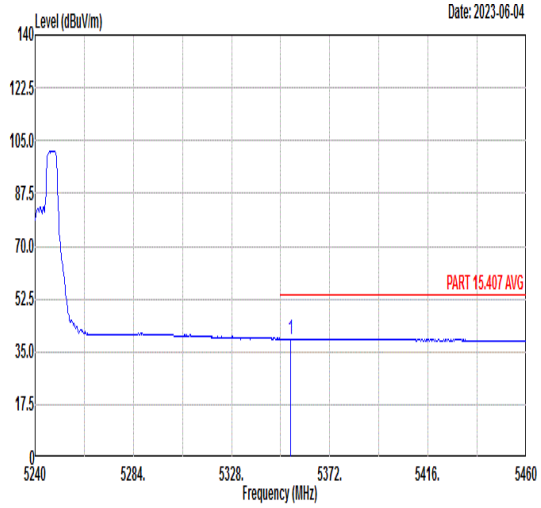
Mode	10	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU26/8_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5018.24 52.36 74.00 -21.64 42.57 34.59 7.83 32.63 100 149 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 5240.00 109.09 ------ ------ 99.53 34.50 8.06 33.00 100 149 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 5049.68 40.26 54.00 -13.74 30.51 34.58 7.85 32.68 100 149 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 5240.00 101.54 ------ ------ 91.98 34.50 8.06 33.00 100 149 AVERAGE

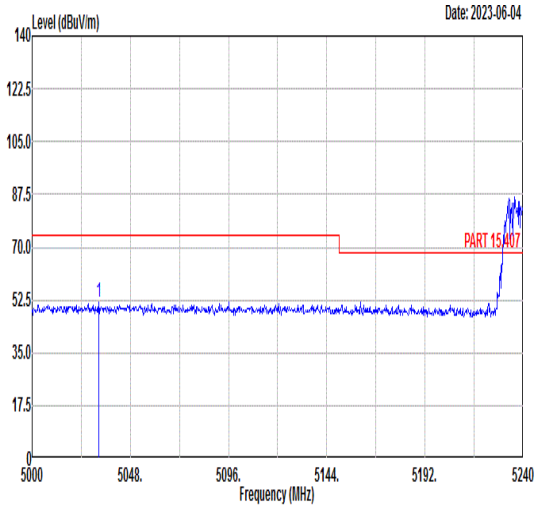
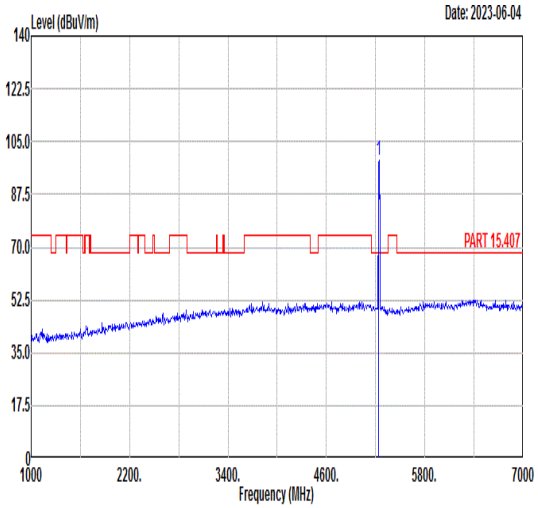
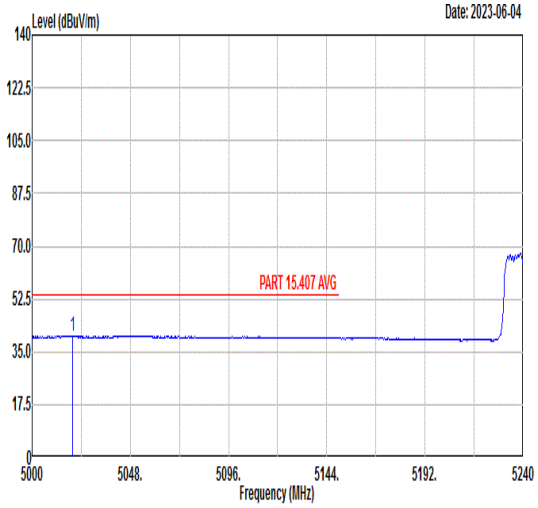
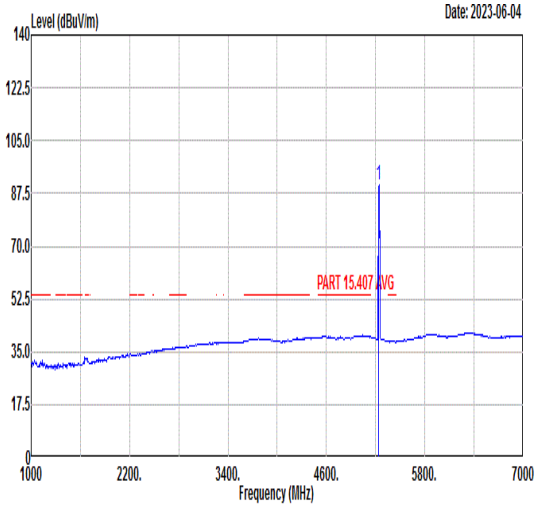
Mode	10	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU26/8_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5389.38 51.06 74.00 -22.94 41.42 34.44 8.43 33.23 100 149 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 5350.66 38.95 54.00 -15.05 29.33 34.46 8.33 33.17 100 149 AVERAGE	Blank

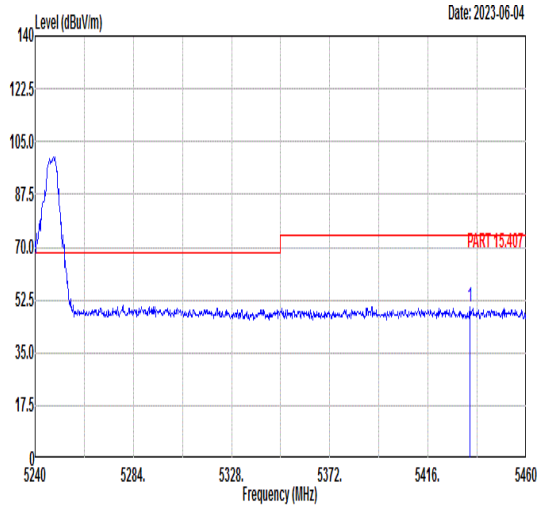
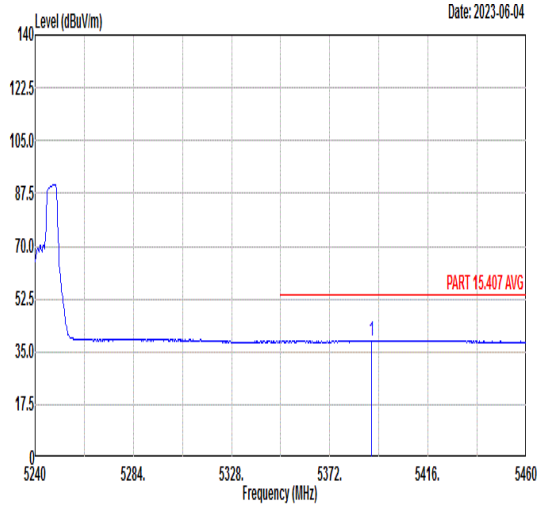
Mode	10	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU26/8_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5003.84 52.19 74.00 -21.81 42.38 34.60 7.82 32.61 304 192 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 5240.00 102.58 ------ ------ 93.02 34.50 8.06 33.00 304 192 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 5048.24 40.19 54.00 -13.81 30.44 34.58 7.85 32.68 304 192 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 5240.00 94.50 ------ ------ 84.94 34.50 8.06 33.00 304 192 AVERAGE

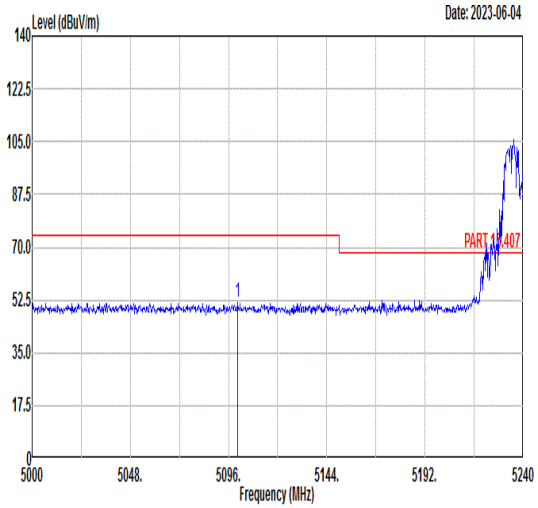
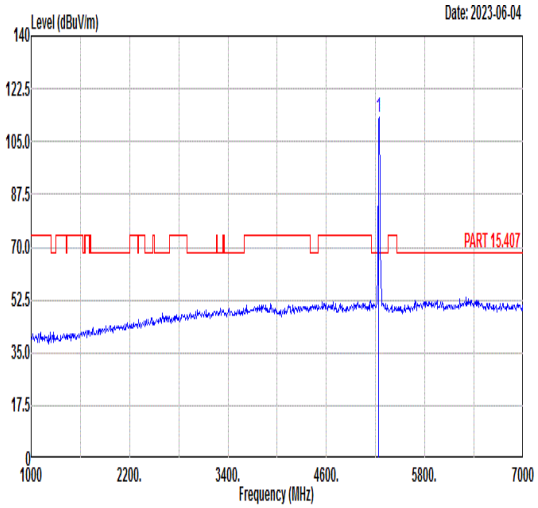
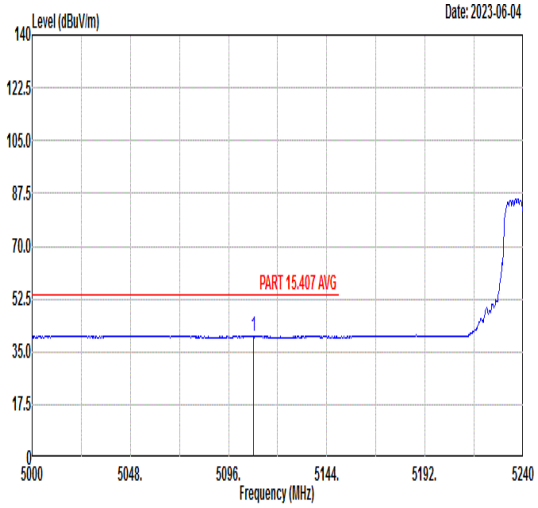
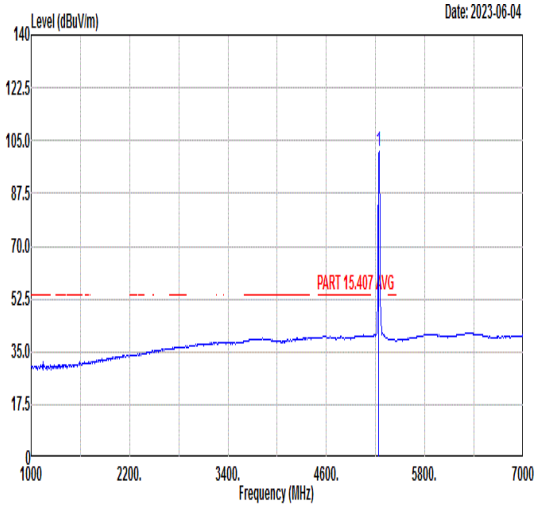
Mode	10	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU26/8_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5441.30 49.87 74.00 -24.13 40.34 34.42 8.43 33.32 304 192 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 5391.14 38.69 54.00 -15.31 29.05 34.44 8.44 33.24 304 192 AVERAGE	Blank

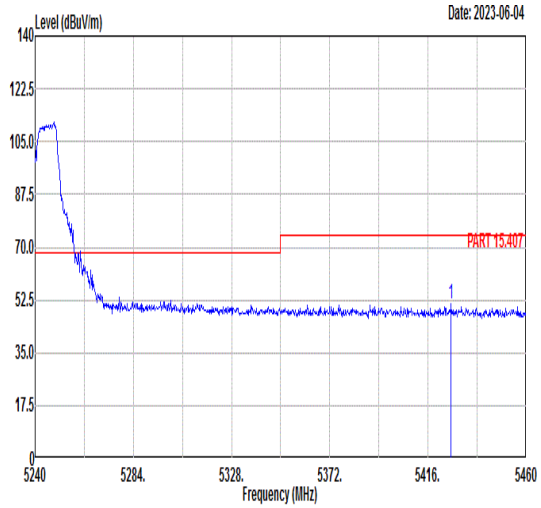
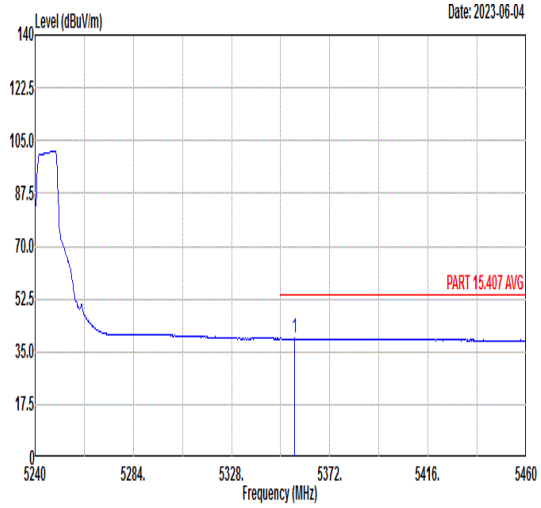
Mode	11	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU52/40_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5143.04 51.75 74.00 -22.25 42.13 34.54 7.91 32.83 100 149 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 5240.00 110.96 ------ ------ 101.40 34.50 8.06 33.00 100 149 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 5050.16 40.36 54.00 -13.64 30.61 34.58 7.85 32.68 100 149 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 5240.00 101.29 ------ ------ 91.73 34.50 8.06 33.00 100 149 AVERAGE

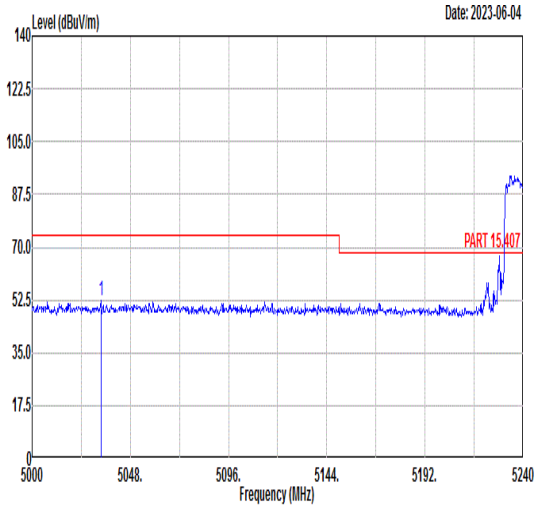
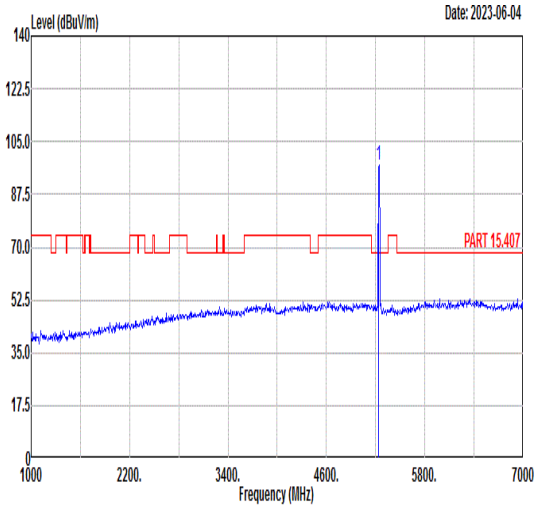
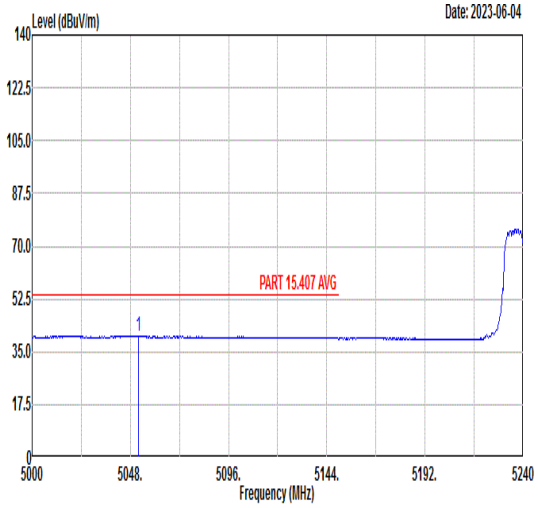
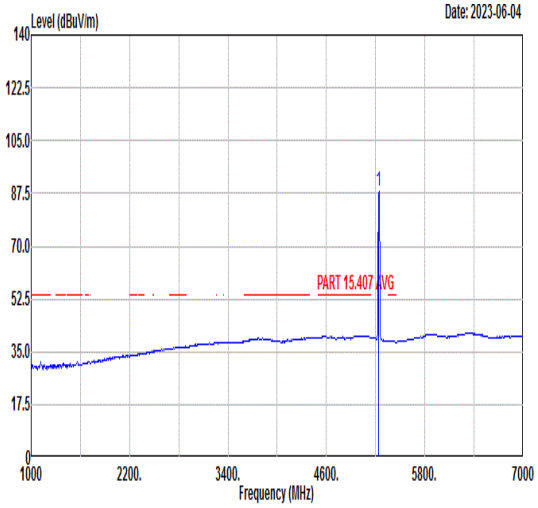
Mode	11	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU52/40_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5430.08 51.23 74.00 -22.77 41.65 34.43 8.45 33.30 100 149 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 5354.62 39.33 54.00 -14.67 29.71 34.46 8.34 33.18 100 149 AVERAGE	Blank

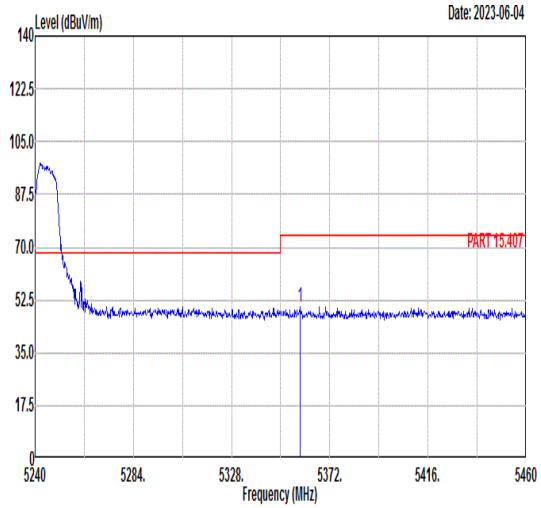
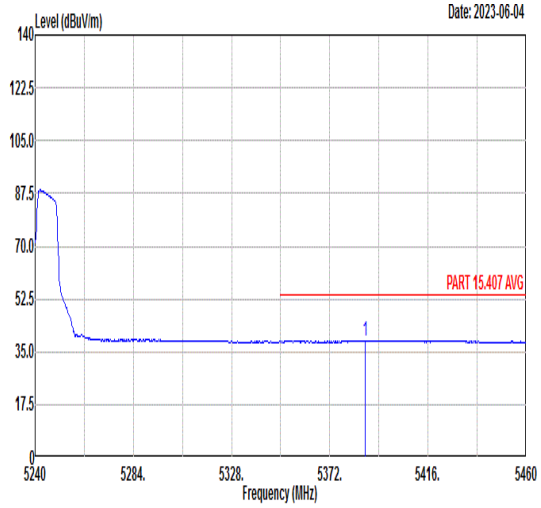
Mode	11	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU52/40_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5032.40 51.66 74.00 -22.34 41.89 34.59 7.84 32.66 320 175 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 5240.00 98.79 ------ ------ 89.23 34.50 8.06 33.00 320 175 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 5019.92 40.25 54.00 -13.75 30.47 34.59 7.83 32.64 320 175 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 5240.00 90.33 ------ ------ 80.77 34.50 8.06 33.00 320 175 AVERAGE

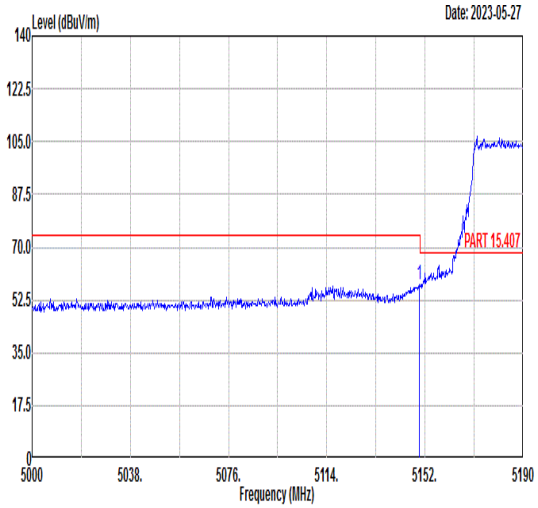
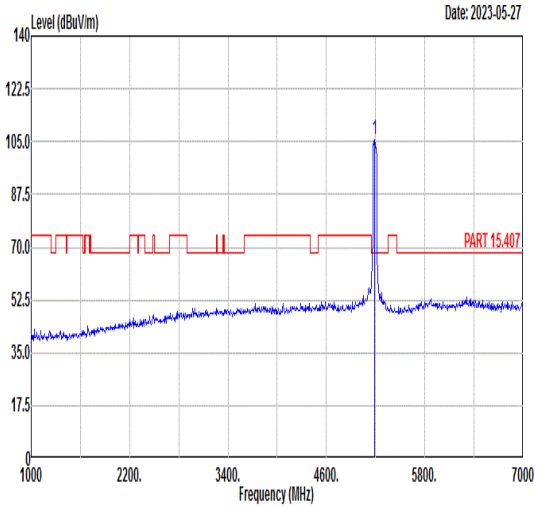
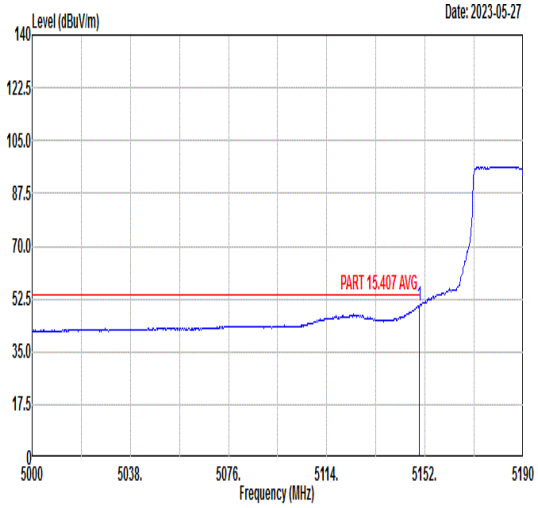
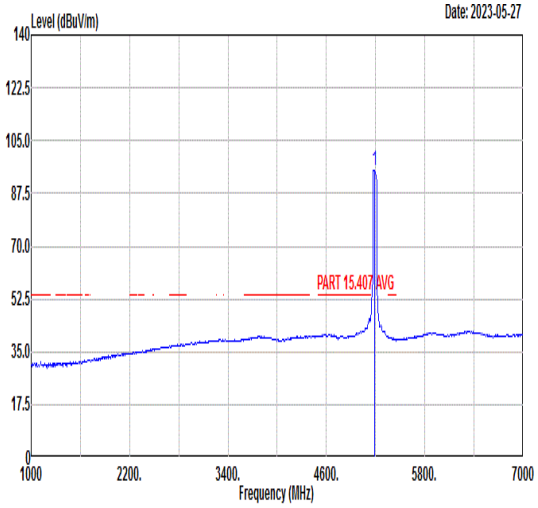
Mode	11	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU52/40_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5434.92 50.30 74.00 -23.70 40.74 34.43 8.44 33.31 320 175 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 5390.70 38.73 54.00 -15.27 29.09 34.44 8.44 33.24 320 175 AVERAGE	Blank

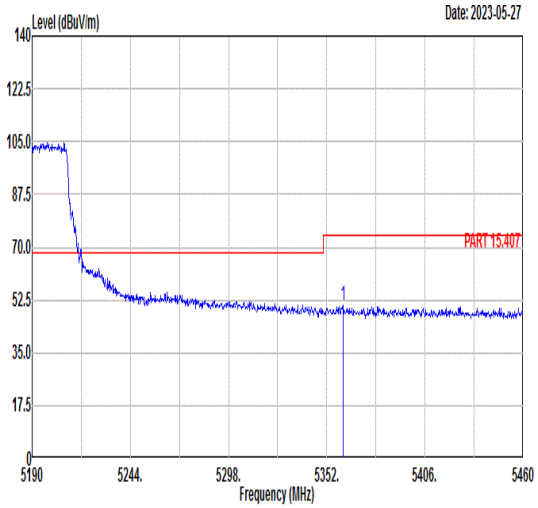
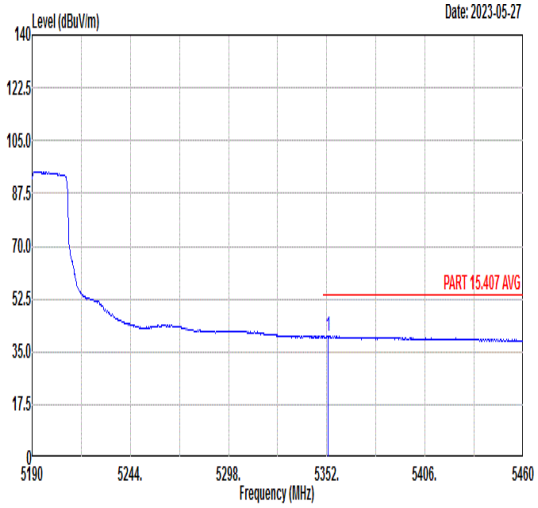
Mode	12	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU106/54_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5100.56 51.64 74.00 -22.36 41.96 34.56 7.89 32.77 100 157 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 5240.00 113.05 ------ ------ 103.49 34.50 8.06 33.00 100 157 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 5108.24 40.29 54.00 -13.71 30.62 34.56 7.89 32.78 100 157 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 5240.00 101.30 ------ ------ 91.74 34.50 8.06 33.00 100 157 AVERAGE

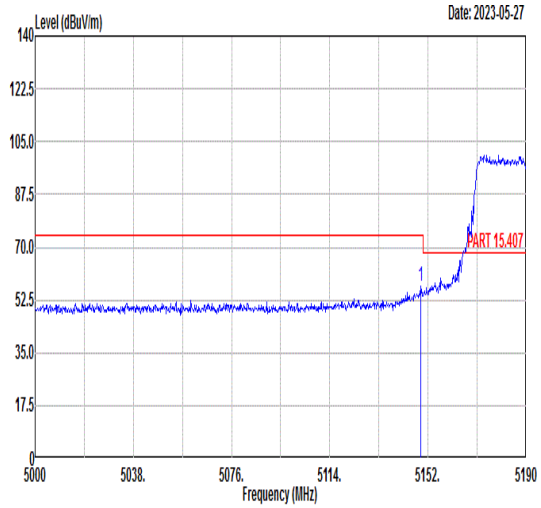
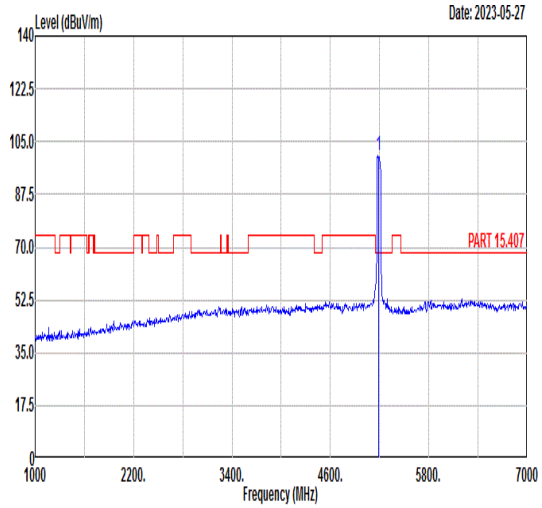
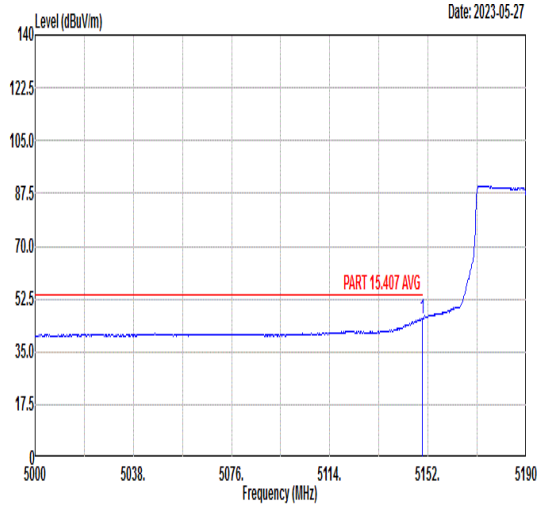
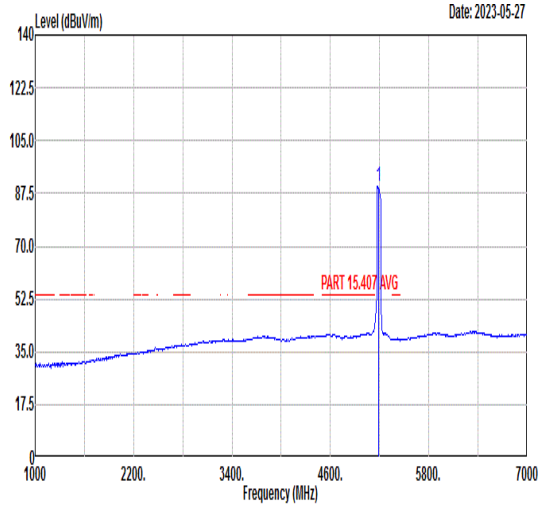
Mode	12	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU106/54_5240MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5426.34 51.02 74.00 -22.98 41.43 34.43 8.45 33.29 100 157 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 5356.16 39.40 54.00 -14.60 29.78 34.46 8.34 33.18 100 157 AVERAGE	Blank

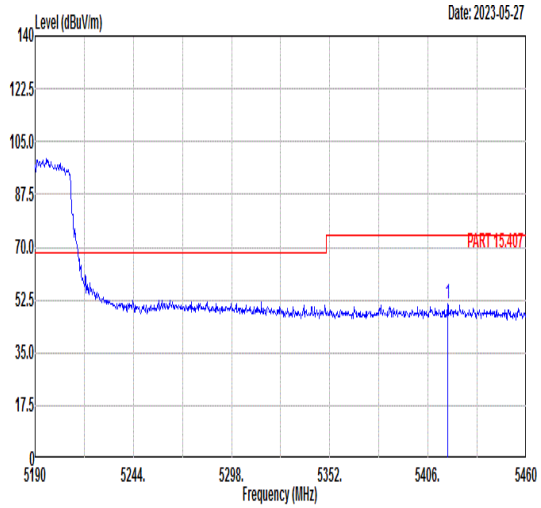
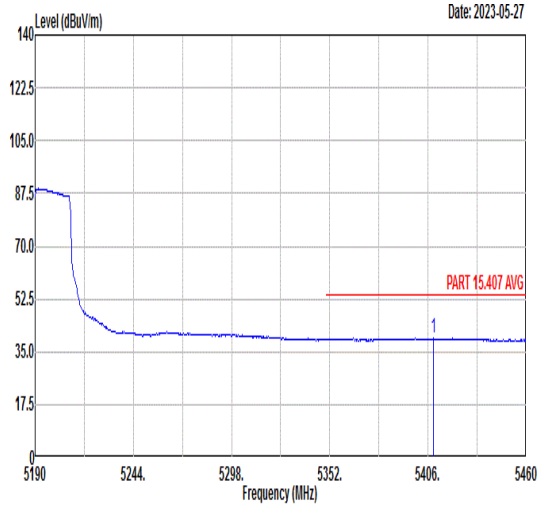
Mode	12	
	Band Edge - L	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU106/54_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5033.60 52.05 74.00 -21.95 42.28 34.59 7.84 32.66 116 360 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 5240.00 97.43 ------ ------ 87.89 34.50 8.04 33.00 116 360 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 5051.84 40.16 54.00 -13.84 30.42 34.58 7.85 32.69 116 360 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 5240.00 88.43 ------ ------ 78.89 34.50 8.04 33.00 116 360 AVERAGE

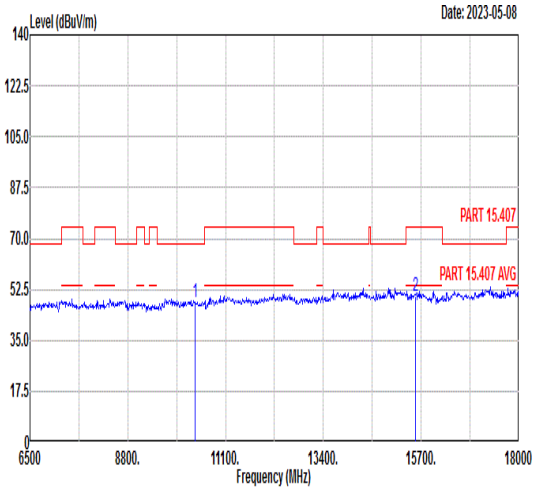
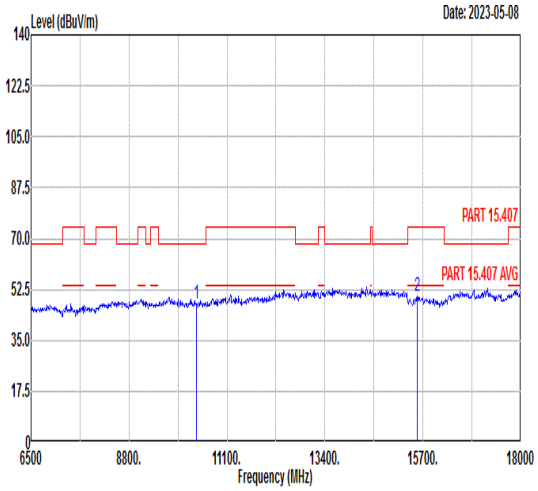
Mode	12	
	Band Edge - R	
	U-NII-1_5.25-5.35_802.11ax HE20_CH48_RU106/54_5240MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5358.58 50.29 74.00 -23.71 40.66 34.46 8.35 33.18 116 360 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 5387.84 38.61 54.00 -15.39 28.97 34.44 8.43 33.23 116 360 AVERAGE	Blank

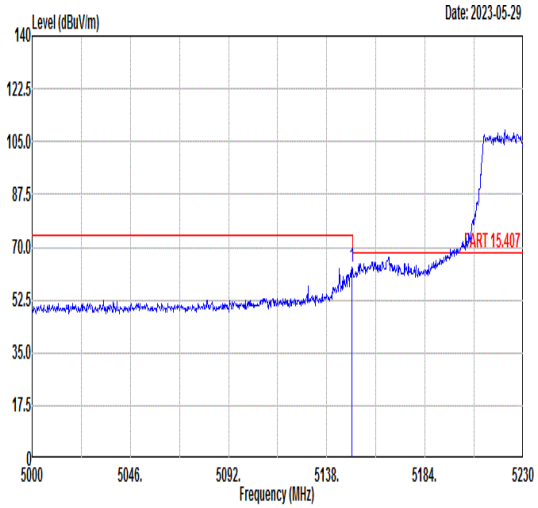
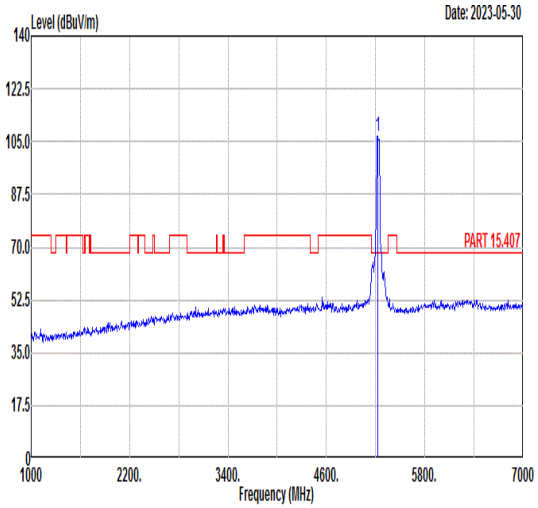
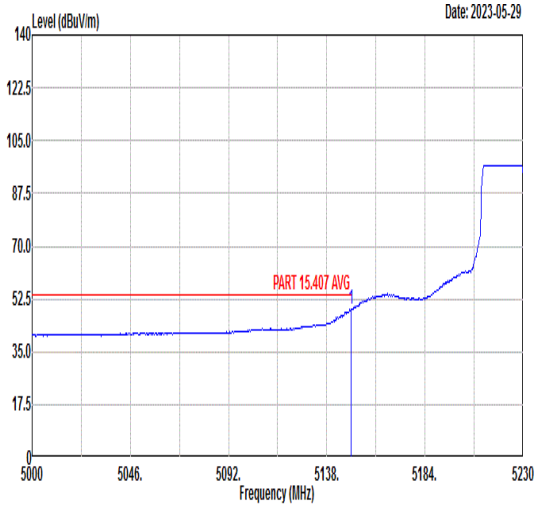
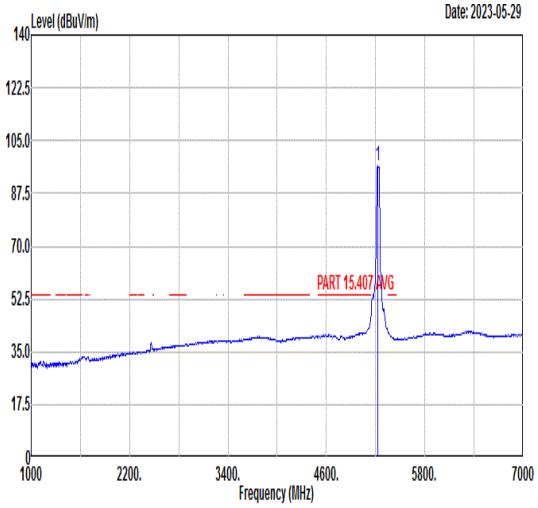
Mode	13	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE40_CH38_Full RU_5190MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.91 57.40 74.00 -16.60 47.79 34.54 7.92 32.85 203 84 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 5190.00 105.73 ------ ------ 96.18 34.52 7.94 32.91 203 84 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 5149.91 50.44 54.00 -3.56 40.83 34.54 7.92 32.85 203 84 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 95.12 ------ ------ 85.55 34.53 7.94 32.90 203 84 AVERAGE

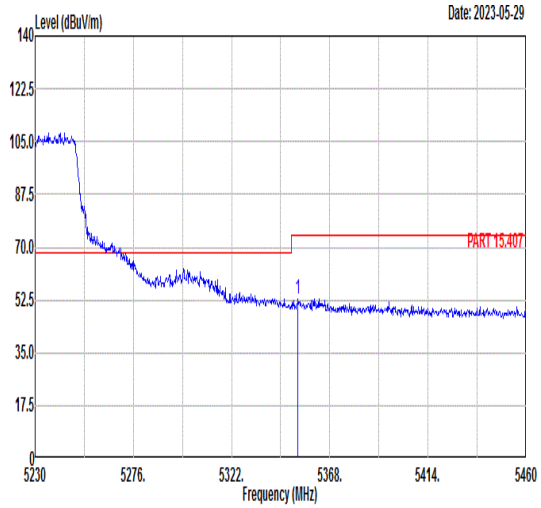
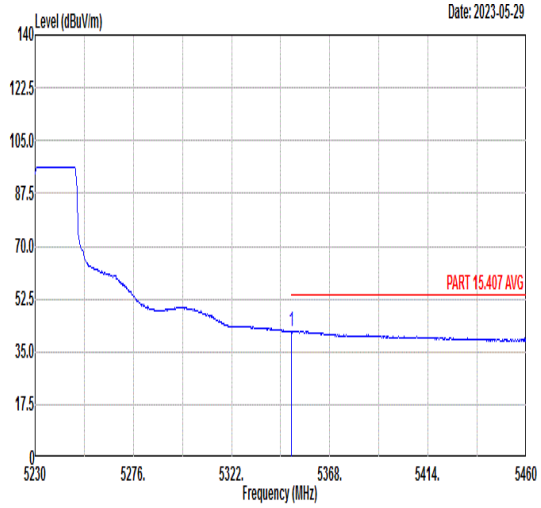
Mode	13	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE40_CH38_Full RU_5190MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5361.18 50.82 74.00 -23.18 41.19 34.46 8.36 33.19 203 84 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 5352.54 40.04 54.00 -13.96 30.42 34.46 8.33 33.17 203 84 AVERAGE	Blank

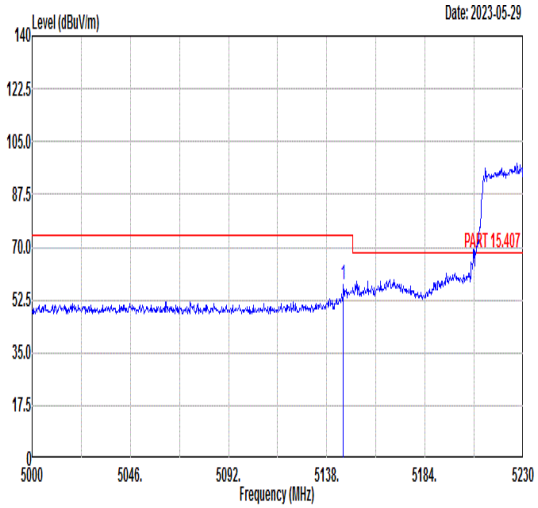
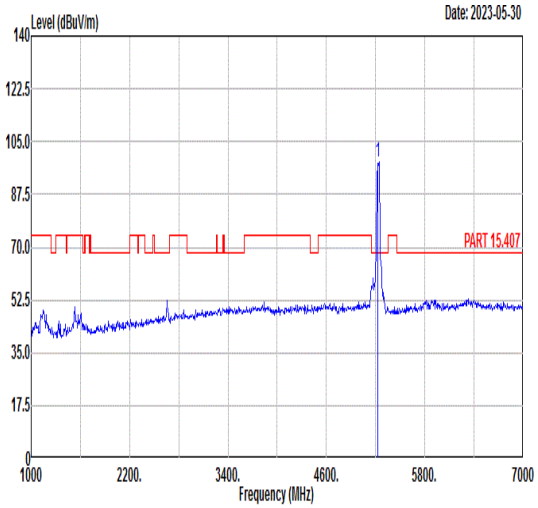
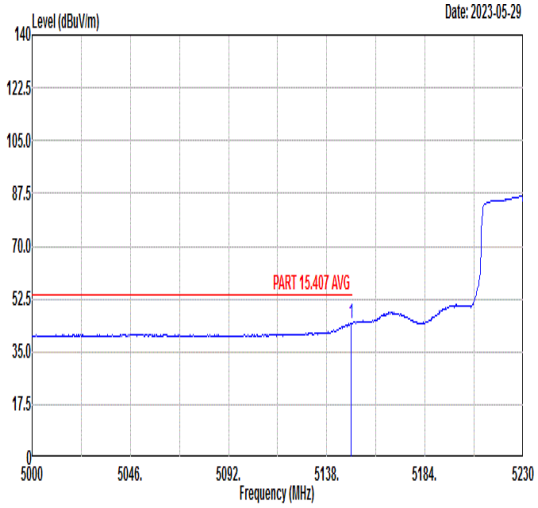
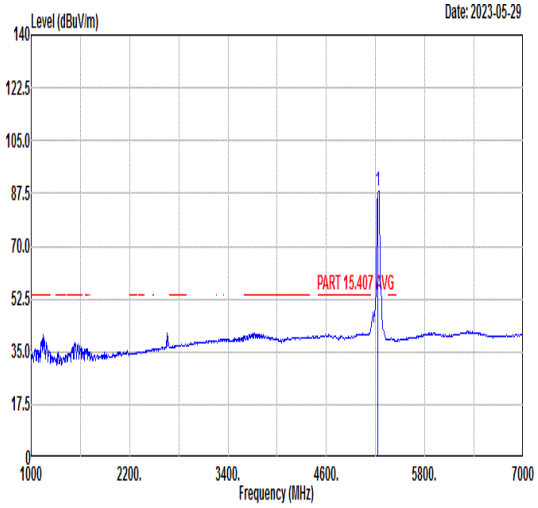
Mode	13	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE40_CH38_Full RU_5190MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.15 56.95 74.00 -17.05 47.33 34.54 7.92 32.84 354 220 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 5190.00 100.53 ------ ------ 90.95 34.53 7.94 32.89 354 220 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 5149.72 46.00 54.00 -8.00 36.39 34.54 7.92 32.85 354 220 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 89.74 ------ ------ 80.16 34.53 7.93 32.88 354 220 AVERAGE

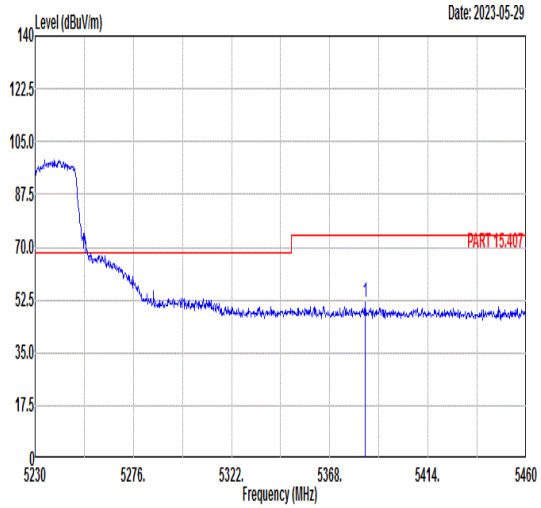
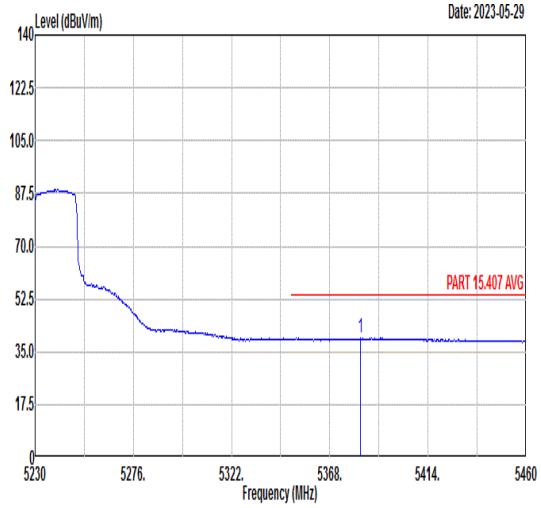
Mode	13	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE40_CH38_Full RU_5190MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5416.80 51.21 74.00 -22.79 41.59 34.43 8.47 33.28 354 220 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 5408.97 39.50 54.00 -14.50 29.85 34.44 8.48 33.27 354 220 AVERAGE	Blank

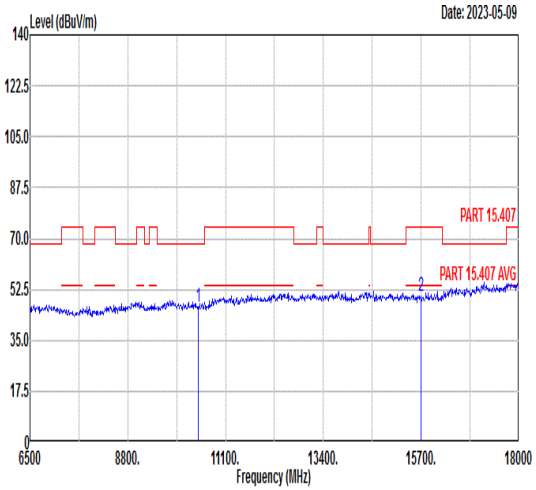
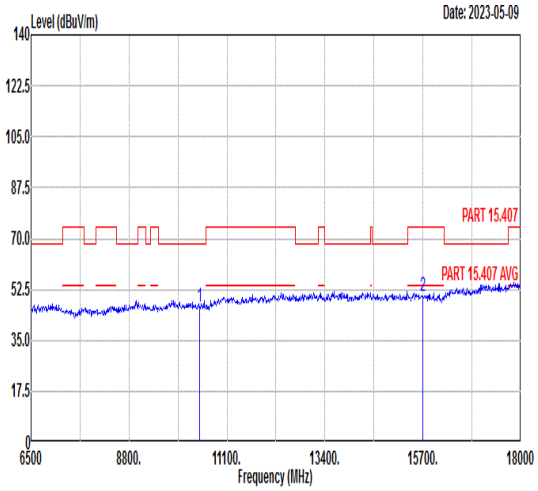
Mode	13	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE40_CH38_Full RU_5190MHz	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 10380.00 48.10 68.30 -20.20 57.33 37.63 13.49 60.35 --- --- Peak 2 15570.00 50.39 74.00 -23.61 52.92 40.57 15.54 58.64 --- --- 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 10380.00 47.46 68.30 -20.84 56.69 37.63 13.49 60.35 --- --- Peak 2 15570.00 50.09 74.00 -23.91 52.62 40.57 15.54 58.64 --- --- Peak

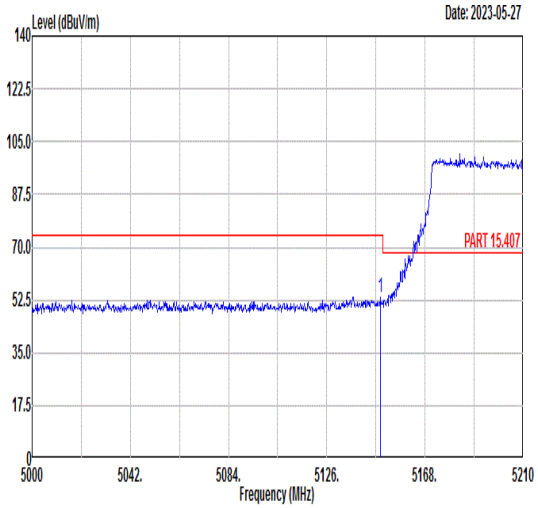
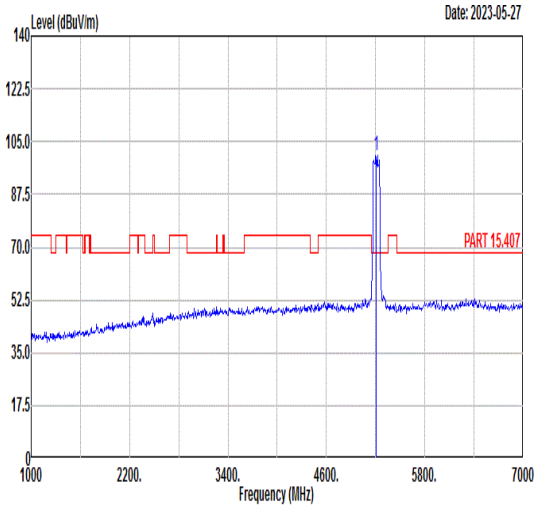
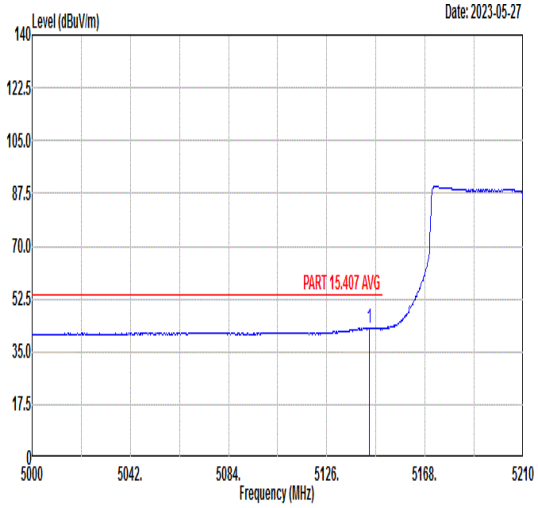
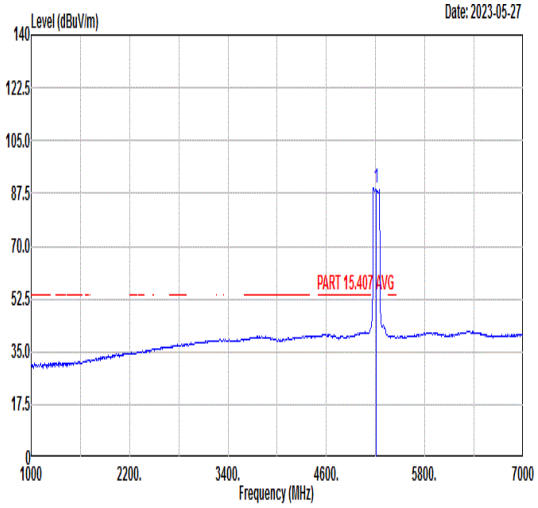
Mode	14	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5149.73 63.22 74.00 -10.78 53.61 34.54 7.92 32.85 165 85 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 5230.00 106.90 ------ ------ 97.37 34.51 7.98 32.96 165 85 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 5149.27 49.12 54.00 -4.88 39.50 34.54 7.92 32.84 165 85 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 5230.00 96.71 ------ ------ 87.18 34.51 7.99 32.97 165 85 AVERAGE

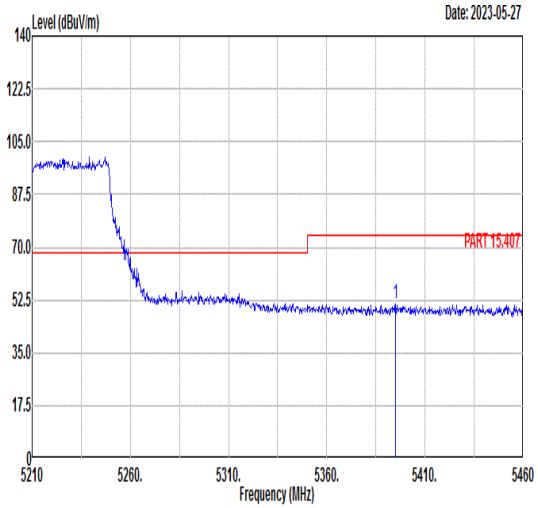
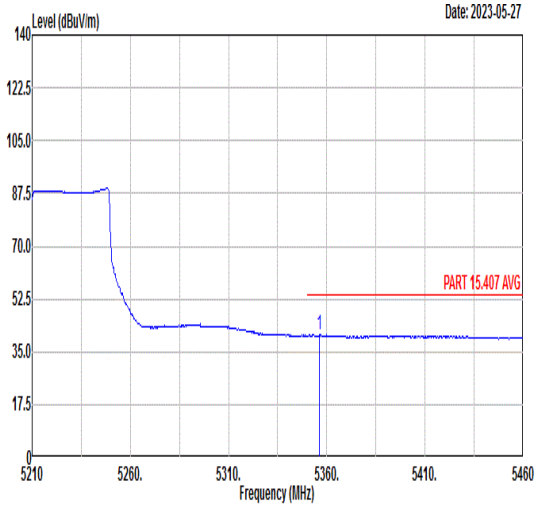
Mode	14	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5353.05 52.99 74.00 -21.01 43.36 34.46 8.34 33.17 165 85 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 5350.06 41.84 54.00 -12.16 32.22 34.46 8.33 33.17 165 85 AVERAGE	Blank

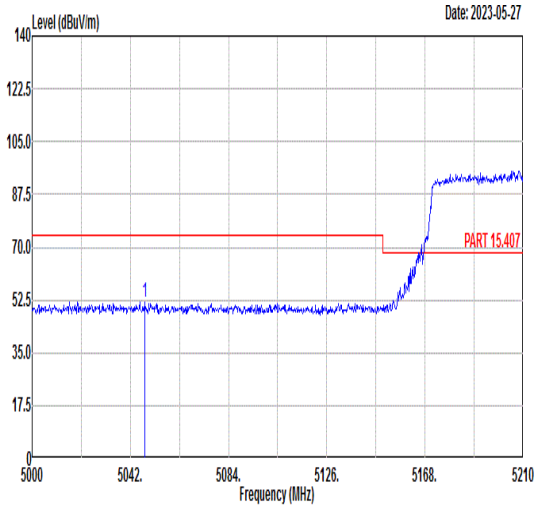
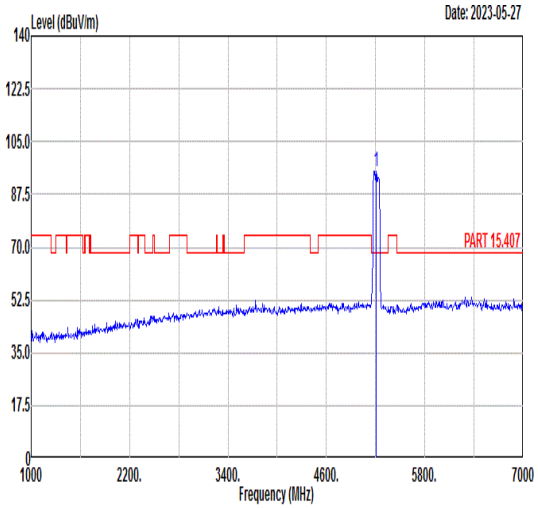
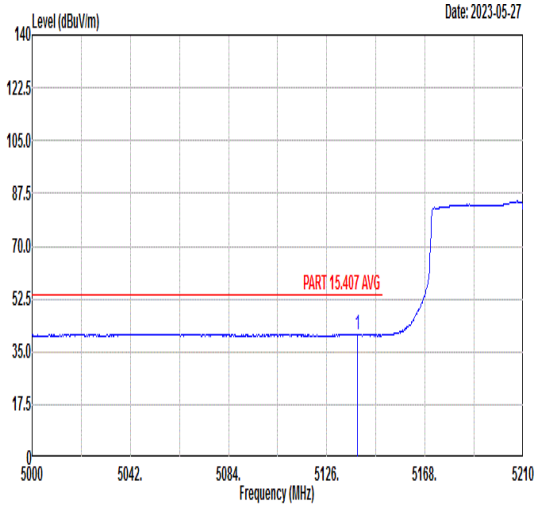
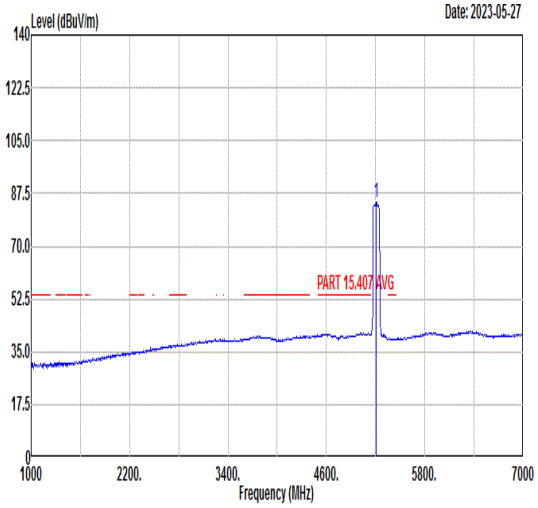
Mode	14	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5145.82 57.43 74.00 -16.57 47.81 34.54 7.92 32.84 400 218 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 5230.00 98.12 ------ ------ 88.58 34.50 8.04 33.00 400 218 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 5149.50 44.64 54.00 -9.36 35.03 34.54 7.92 32.85 400 218 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 5230.00 88.42 ------ ------ 78.88 34.50 8.04 33.00 400 218 AVERAGE

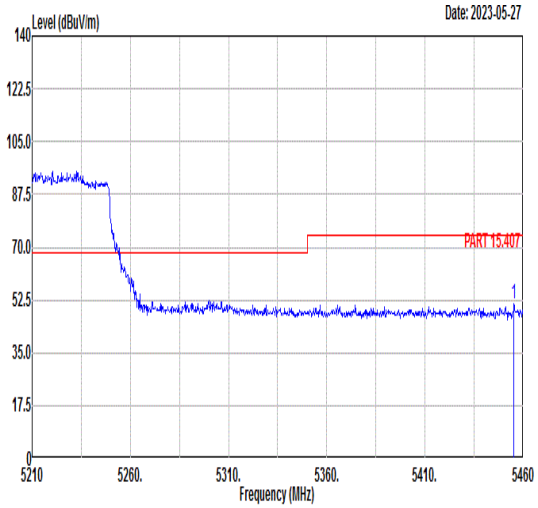
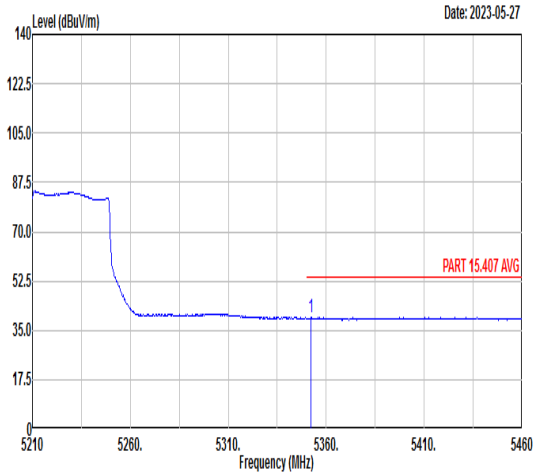
Mode	14	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5384.56 51.69 74.00 -22.31 42.05 34.45 8.42 33.23 400 218 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 5382.26 39.43 54.00 -14.57 29.79 34.45 8.41 33.22 400 218 AVERAGE	Blank

Mode	14	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
Pol.	Horizontal	Vertical
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 10460.00 46.29 68.30 -22.01 55.48 37.67 13.52 60.38 --- --- Peak 2 15690.00 50.05 74.00 -23.95 52.75 40.61 15.57 58.88 --- --- 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 10460.00 46.49 68.30 -21.81 55.68 37.67 13.52 60.38 --- --- Peak 2 15690.00 50.01 74.00 -23.99 52.71 40.61 15.57 58.88 --- --- Peak

Mode	15	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
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 5148.89 53.53 74.00 -20.47 43.91 34.54 7.92 32.84 254 154 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 5210.00 100.63 ------ ------ 91.10 34.51 7.99 32.97 254 154 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 5144.27 42.94 54.00 -11.06 33.33 34.54 7.91 32.84 254 154 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 5210.00 89.52 ------ ------ 79.94 34.53 7.93 32.88 254 154 AVERAGE

Mode	15	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
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 5395.00 51.10 74.00 -22.90 41.45 34.44 8.45 33.24 254 154 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 5356.25 40.56 54.00 -13.44 30.94 34.46 8.34 33.18 254 154 AVERAGE	Blank

Mode	15	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
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 5048.30 51.98 74.00 -22.02 42.23 34.58 7.85 32.68 386 220 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 5210.00 95.08 ------ ------ 85.54 34.52 7.96 32.94 386 220 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 5139.23 40.91 54.00 -13.09 31.29 34.54 7.91 32.83 386 220 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 5210.00 84.63 ------ ------ 75.09 34.52 7.96 32.94 386 220 AVERAGE

Mode	15	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
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 5455.25 51.41 74.00 -22.59 41.91 34.42 8.42 33.34 386 220 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 5352.25 39.48 54.00 -14.52 29.86 34.46 8.33 33.17 386 220 AVERAGE	Blank