FCC RF Test Report

APPLICANT	:	vivo Mobile Communication Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	vivo
MODEL NAME	:	V2343
FCC ID	:	2AUCY-V2343
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Mar. 13, 2024 ~ Mar. 28, 2024

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

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

Jason Jia

Approved by: Jason Jia

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People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

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

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

2.1 Carrier Frequency and Channel 9
2.2 Test Mode 10
2.3 Connection Diagram of Test System 12
2.4 Support Unit used in test configuration and system 13
2.5 EUT Operation Test Setup 13
2.6 Measurement Results Explanation Example 13

3 TEST RESULT **14**

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement 14
3.2 Maximum Conducted Output Power Measurement 19
3.3 Power Spectral Density Measurement 21
3.4 Unwanted Emissions Measurement 25
3.5 AC Conducted Emission Measurement 30
3.6 Antenna Requirements 32

4 LIST OF MEASURING EQUIPMENT **33**

5 MEASUREMENT UNCERTAINTY **34**

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. AC CONDUCTED EMISSION TEST RESULT

APPENDIX C. RADIATED SPURIOUS EMISSION

APPENDIX D. DUTY CYCLE PLOTS

APPENDIX E. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR420616D	Rev. 01	Initial issue of report	Apr. 12, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 2.14 dB at 5367.18 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 20.10 dB at 0.57 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2343
FCC ID	2AUCY-V2343
IMEI Code	Conducted: 864567079785559/864567079785542 Conduction: 864567079785419/864567079785401 Radiation: 355199400020476/355199400020484
HW Version	MP_0.1
SW Version	PD2354HF_EX_A_14.0.4.6.W30
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 18.93 dBm / 0.0782 W 802.11n HT20 : 18.31 dBm / 0.0678 W 802.11n HT40 : 18.06 dBm / 0.0640 W 802.11ac VHT80: 16.25 dBm / 0.0422 W **<5260 MHz ~ 5320 MHz>** 802.11a : 19.02 dBm / 0.0798 W 802.11n HT20 : 18.39 dBm / 0.0690 W 802.11n HT40 : 18.26 dBm / 0.0670 W 802.11ac VHT80: 15.41 dBm / 0.0348 W **<5500 MHz ~ 5720 MHz >** 802.11a : 18.90 dBm / 0.0776 W 802.11n HT20 : 18.24 dBm / 0.0667 W 802.11n HT40 : 17.95 dBm / 0.0624 W 802.11ac VHT80: 16.71 dBm / 0.0469 W **<5745 MHz ~ 5825 MHz>** 802.11a : 19.06 dBm / 0.0805 W 802.11n HT20 : 18.63 dBm / 0.0729 W 802.11n HT40 : 18.51 dBm / 0.0710 W 802.11ac VHT80: 16.45 dBm / 0.0442 W
99% Occupied Bandwidth	**<5180 MHz ~ 5240 MHz>** 802.11a : 17.43 MHz 802.11n HT20 : 18.28 MHz 802.11n HT40 : 36.46 MHz 802.11ac VHT80 : 75.88 MHz **<5260 MHz ~ 5320 MHz>** 802.11a : 17.63 MHz 802.11n HT20 : 18.38 MHz 802.11n HT40 : 36.46 MHz 802.11ac VHT80 : 75.76 MHz **<5500 MHz ~ 5720 MHz>** 802.11a : 17.68 MHz 802.11n HT20 : 18.43 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 75.88 MHz **<5745 MHz ~ 5825 MHz>** 802.11a : 18.08 MHz 802.11n HT20 : 18.43 MHz 802.11n HT40 : 36.66 MHz 802.11ac VHT80 : 75.88 MHz

Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PIFA Antenna type with gain 2.40 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna type with gain 3.30 dBi **<5500 MHz ~ 5720 MHz>** PIFA Antenna type with gain 3.40 dBi **<5745 MHz ~ 5825 MHz>** PIFA Antenna type with gain 3.50 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note: For 802.11n HT20 /VHT20 and 802.11n HT40 /VHT40 mode, the VHT20/VHT40 power are set less than HT20/HT40 mode, thus only full test 802.11n HT20/HT40.

1.5 Modification of EUT

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

1.6 Testing Location

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-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 (X plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

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 "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "#" are 80MHz bandwidth.

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**
802.11n HT20	**MCS0**
802.11n HT40	**MCS0**
802.11ac VHT80	**MCS0**

RSE Co-location modes
802.11ac VHT80_CH58 + LTE Band13 Link 802.11ac VHT80_CH58 + LTE Band13 Link + BLE CH39 2Mbps

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

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter, Earphone and USB Cable.
2. For simultaneous transmission test mode, the combination testing was assessed from the worst RSE link mode of WWAN (GSM/WCDMA/LTE/5G NR) and the worst RSE link mode of BT/WLAN 5G.

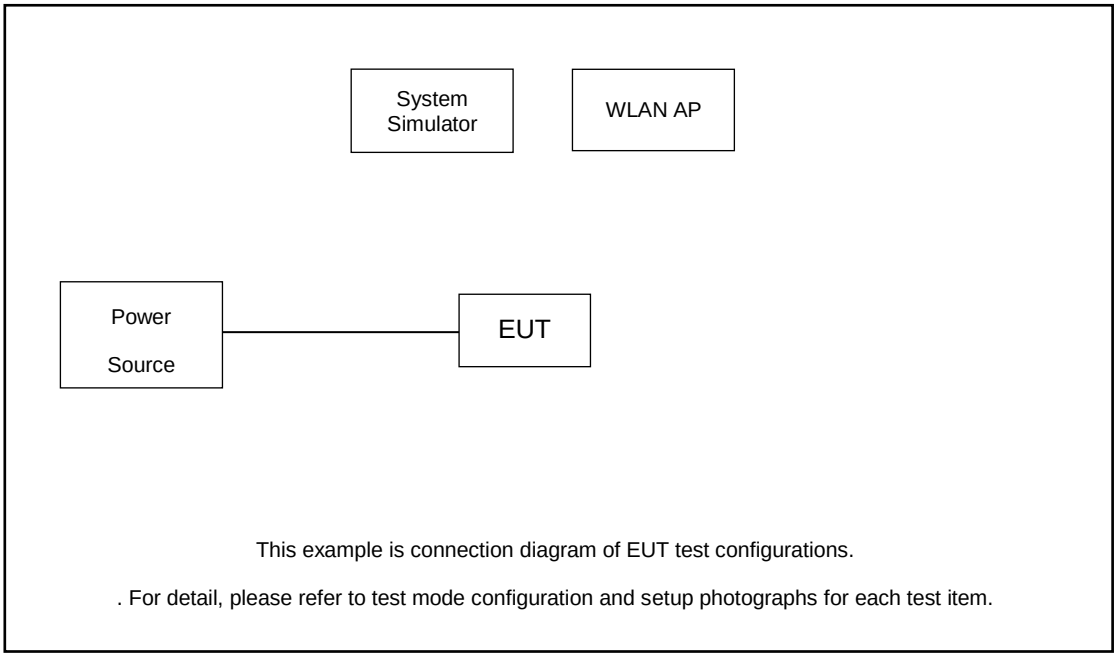
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	122	155
H	High	-	-	-	-
Straddle		-	-	138	-

2.3 Connection Diagram of Test System

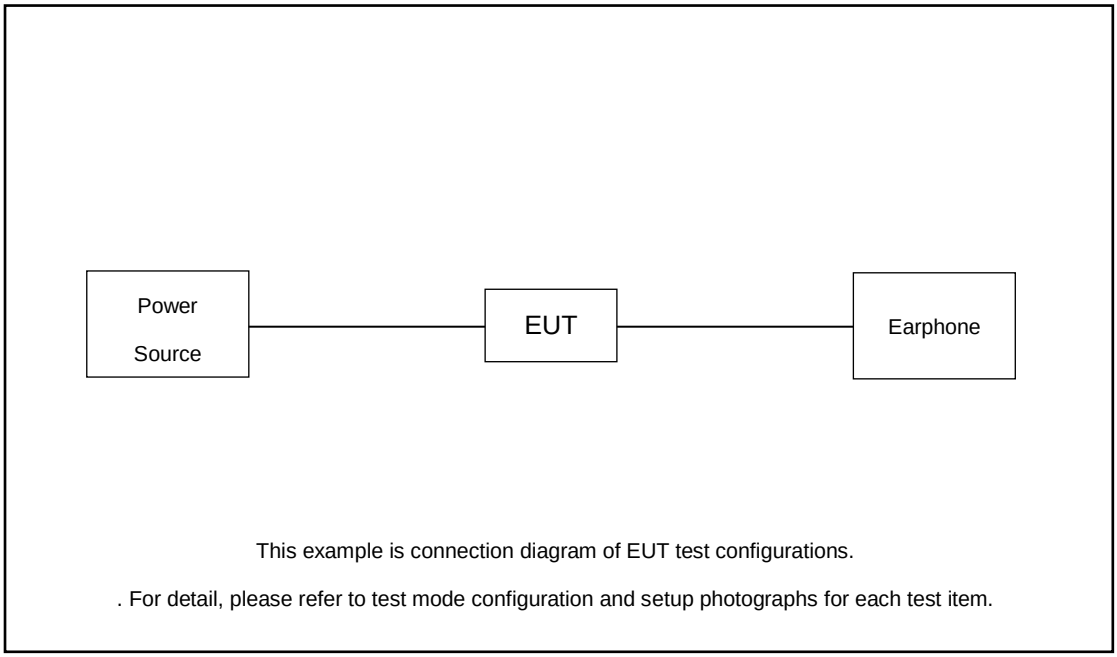
AC Conducted Emission:



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

Radiated Emission:



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
3.	Earphone	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.30 dB and 20dB attenuator.

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

= 5.30 + 20 = 25.30 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

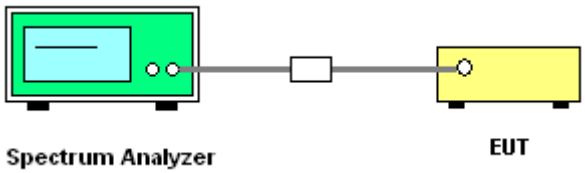
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

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

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = approximately 1% of the emission bandwidth. **2.** Set the VBW > RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. **6.** For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW. **7.** Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100kHz. **2.** Set the VBW ≥ 3 x RBW. **3.** Detector = Peak. **4.** Trace mode = max hold **5.** Measure the maximum width of the emission that is 6 dB down from the peak of the emission. **6.** Measure and record the results in the test report.

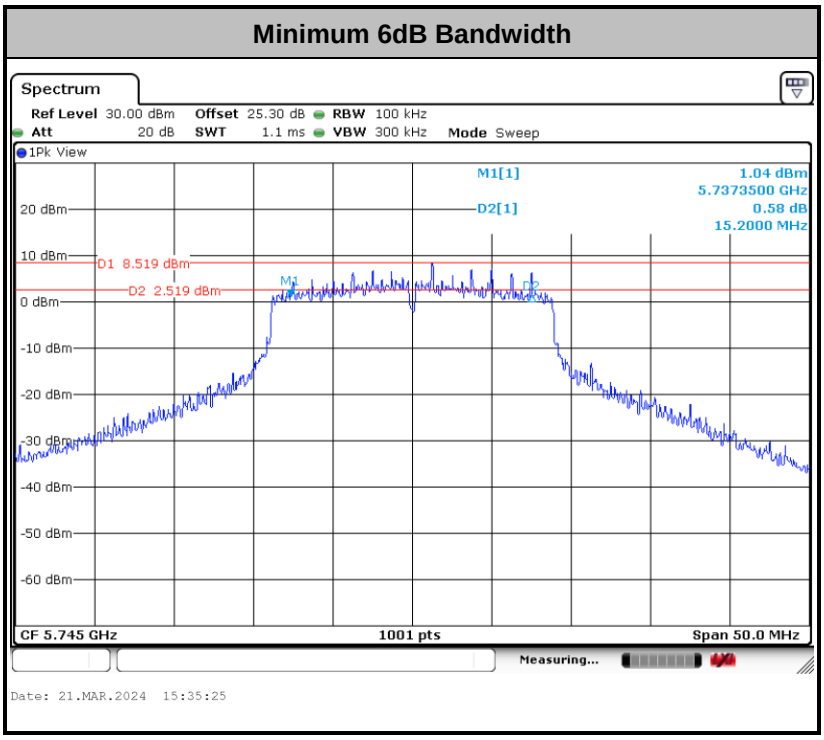
3.1.4 Test Setup



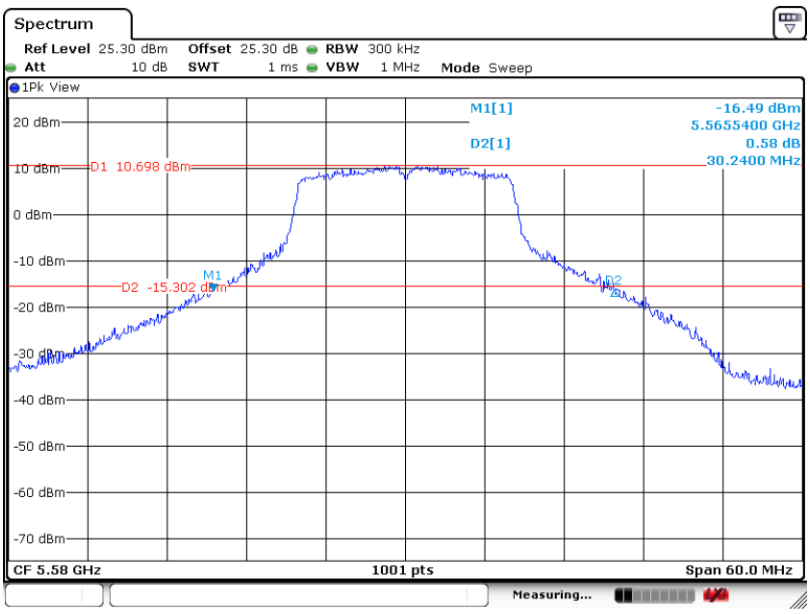
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

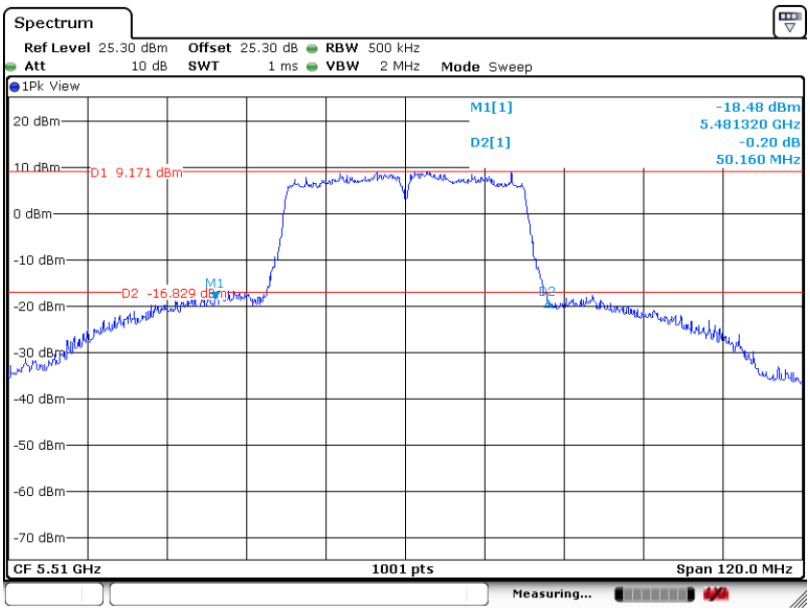
Minimum 6dB Bandwidth



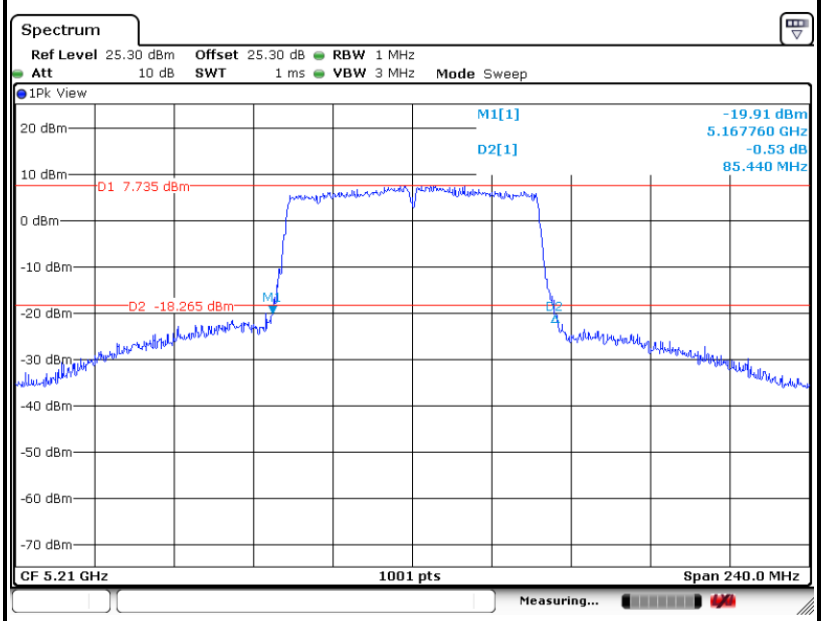
Maximum 26dB Bandwidth for 20M BW



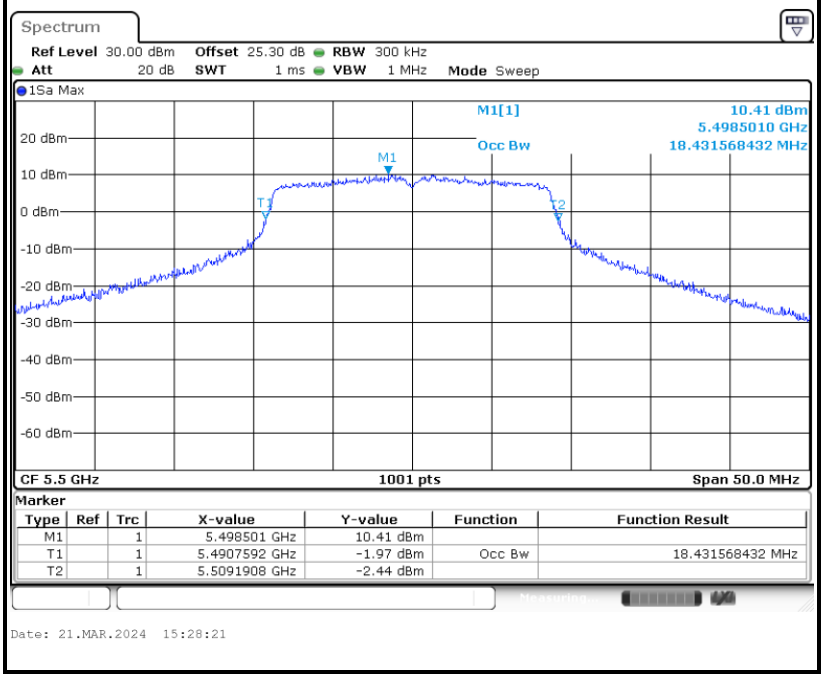
Maximum 26dB Bandwidth for 40M BW



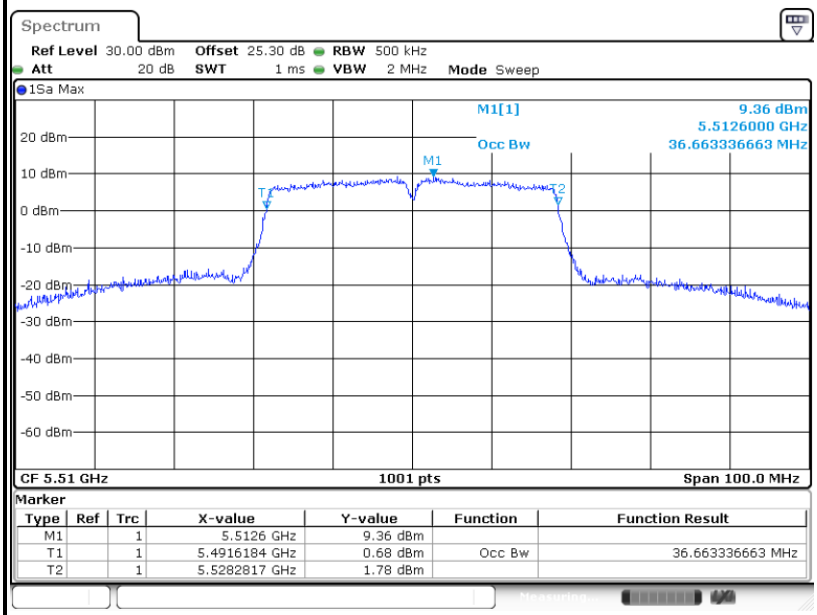
Maximum 26dB Bandwidth for 80M BW



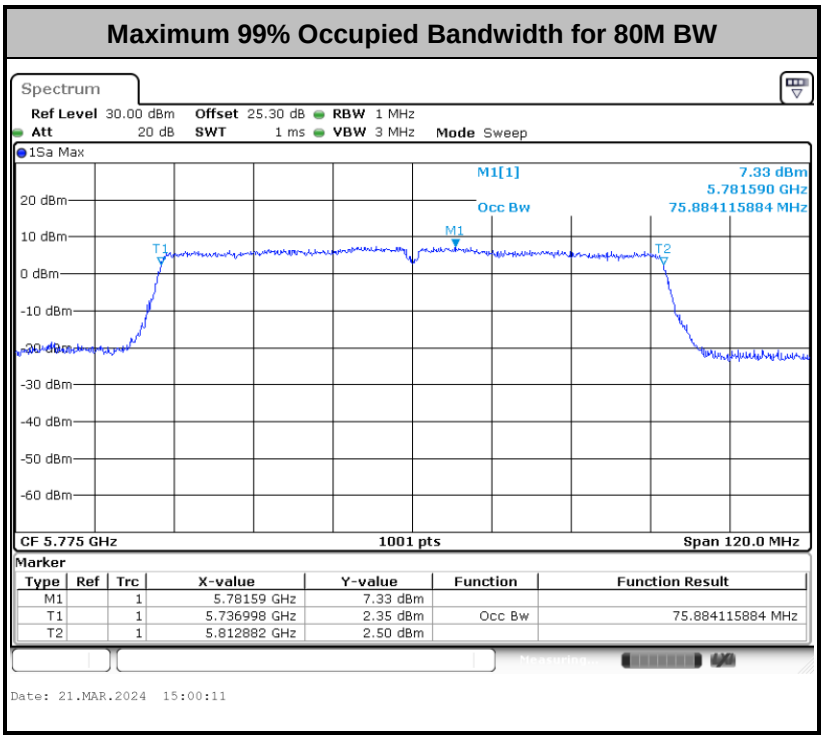
Maximum 99% Occupied Bandwidth for 20M BW



Maximum 99% Occupied Bandwidth for 40M BW



Maximum 99% Occupied Bandwidth for 80M BW



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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

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

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

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.

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3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

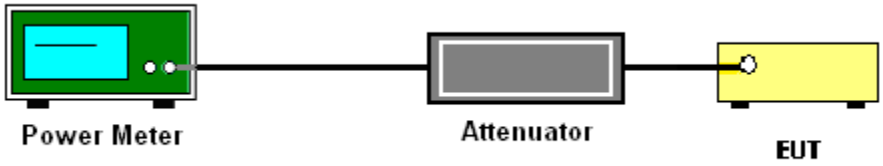
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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

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

 # Method SA-2 #

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

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

For devices operating in the band UNII-3

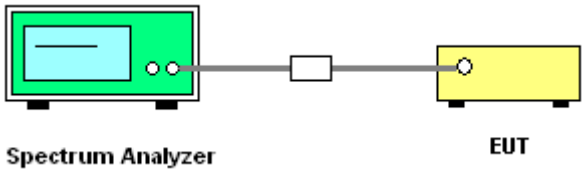
 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can’t set RBW=500KHz).
- Set VBW ≥ 1 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can’t set RBW=500KHz, then add 10 log(500kHz/RBW) to the test result.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

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

3.3.4 Test Setup

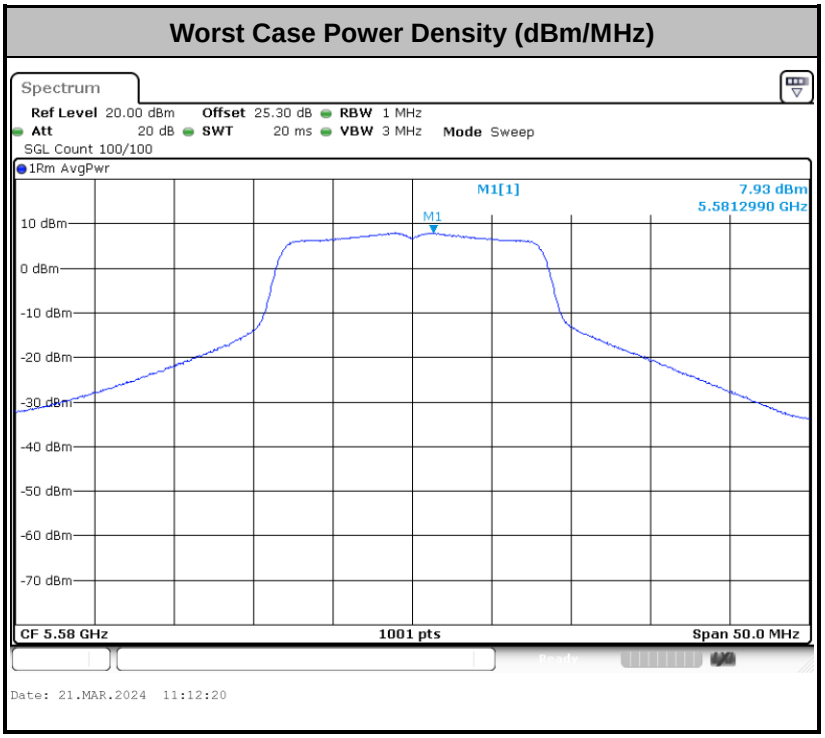


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

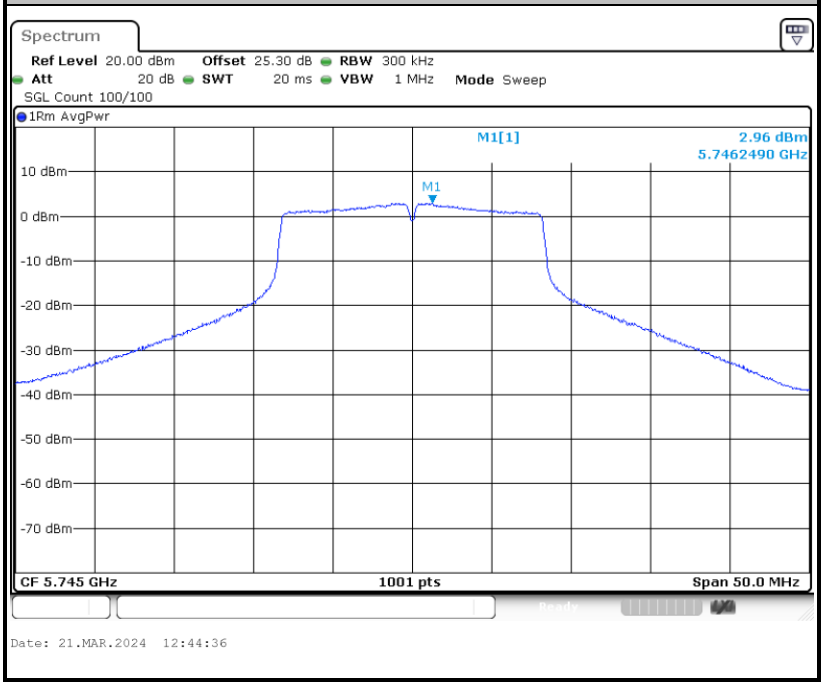
For devices operating in the bands UNII-1/2A/2C

Worst Case Power Density (dBm/MHz)



For devices operating in the band UNII-3

Worst Case Power Density (dBm/300kHz)



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

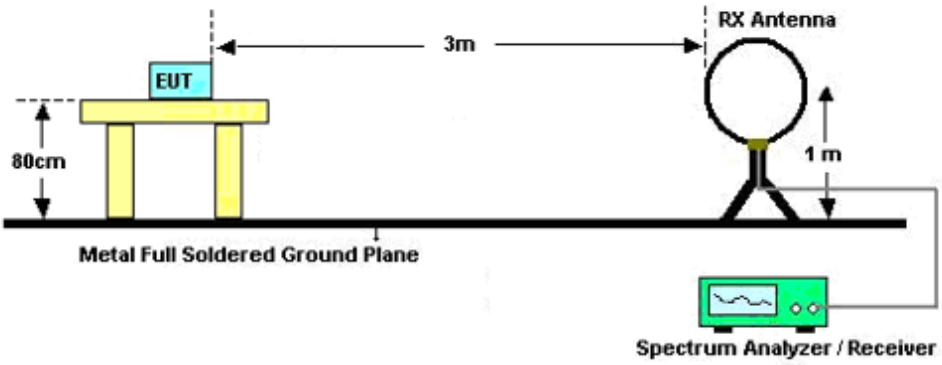
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.

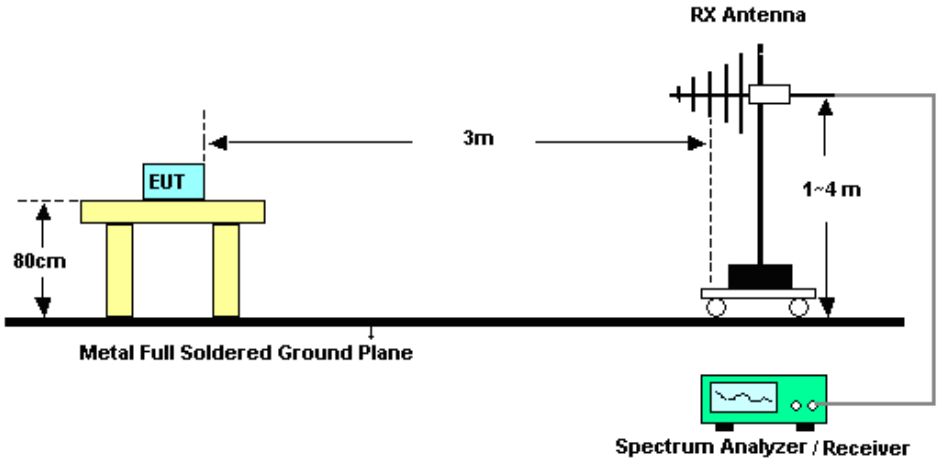
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband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

3.4.4 Test Setup

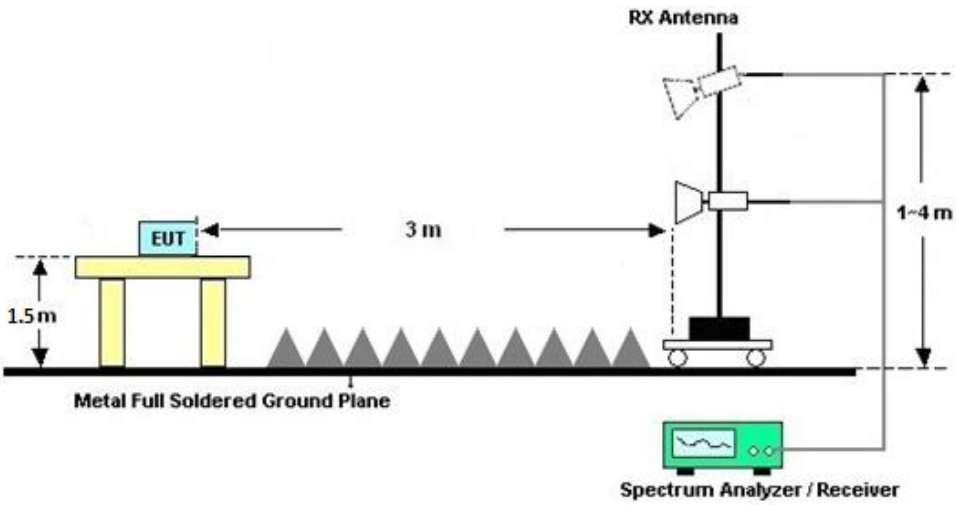
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

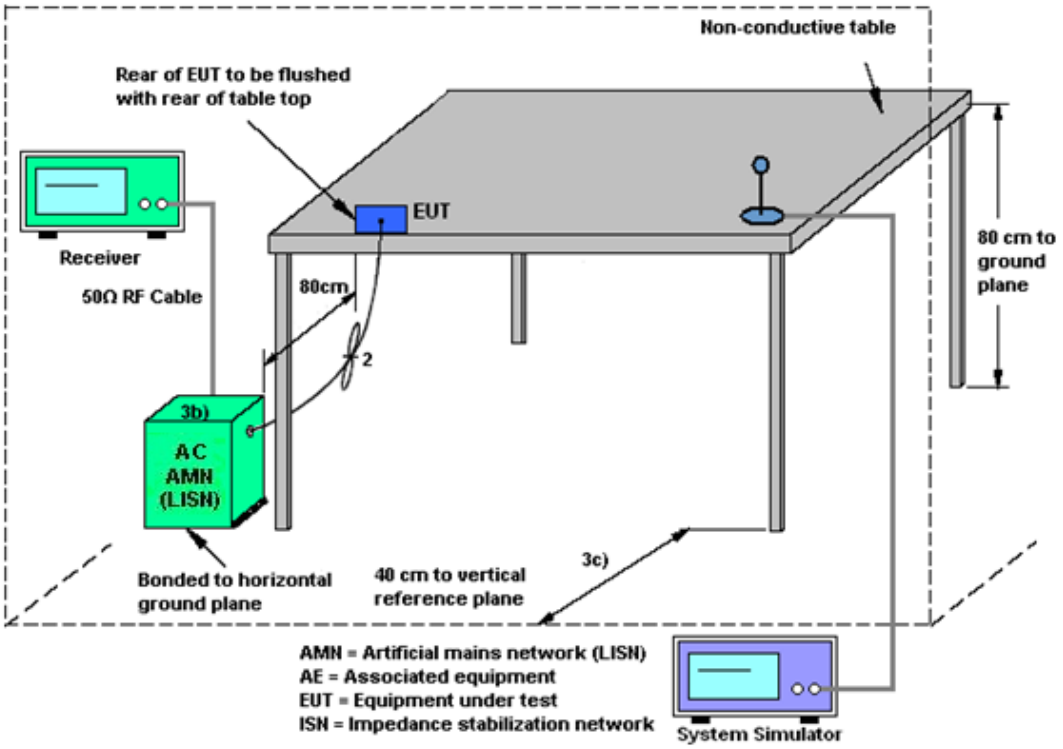
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Mar. 20, 2024 ~Mar. 28, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Mar. 20, 2024 ~Mar. 28, 2024	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101 800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 20, 2024 ~Mar. 28, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 20, 2024 ~Mar. 28, 2024	NCR	Radiation (03CH04-SZ)
Thermo meter	Anymetre	JR593	#12	- 10℃～50℃ 10%RH~99%RH	Dec. 28, 2023	Mar. 20, 2024 ~Mar. 28, 2024	Dec. 27, 2024	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Mar. 14, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Mar. 14, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Mar. 14, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Mar. 14, 2024	Jul. 06, 2024	Conduction (CO01-SZ)
Thermo meter	Anymetre	JR593	#5	- 10℃ ~ 50℃ 10%RH~99%RH	Apr. 08, 2023	Mar. 14, 2024	Apr. 07, 2024	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Mar. 21, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Mar. 21, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	Mar. 21, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	- 10℃ ～ 50℃ 10%RH~99%RH	Apr. 08, 2023	Mar. 21, 2024	Apr. 07, 2024	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

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

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

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

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

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

Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jack LIU	Temperature:	21~25	°C
Test Date:	2024/3/21	Relative Humidity:	51~54	%

Report Number : FR420616D

TEST RESULTS DATA
26dB and 99% OBW

UNII-1										
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)		
11a	6Mbps	1	36	5180	17.13	29.16	-	22.34		
11a	6Mbps	1	44	5220	17.28	29.04	-	22.38		
11a	6Mbps	1	48	5240	17.43	28.68	-	22.41		
HT20	MCS0	1	36	5180	18.23	27.42	-	22.61		
HT20	MCS0	1	44	5220	18.28	27.90	-	22.62		
HT20	MCS0	1	48	5240	18.28	29.70	-	22.62		
HT40	MCS0	1	38	5190	36.46	42.12	-	23.01		
HT40	MCS0	1	46	5230	36.36	45.00	-	23.01		
VHT80	MCS0	1	42	5210	75.88	85.44	-	23.01		

Report Number : FR420616D

TEST RESULTS DATA
Average Power Table

UNII-1										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.09	18.72	24.00	2.40		Pass
11a	6Mbps	1	44	5220	0.09	18.55	24.00	2.40		Pass
11a	6Mbps	1	48	5240	0.09	18.93	24.00	2.40		Pass
HT20	MCS0	1	36	5180	0.08	18.31	24.00	2.40		Pass
HT20	MCS0	1	44	5220	0.08	17.94	24.00	2.40		Pass
HT20	MCS0	1	48	5240	0.08	18.19	24.00	2.40		Pass
HT40	MCS0	1	38	5190	0.17	17.80	24.00	2.40		Pass
HT40	MCS0	1	46	5230	0.17	18.06	24.00	2.40		Pass
VHT80	MCS0	1	42	5210	0.35	16.25	24.00	2.40		Pass

Report Number : FR420616D

TEST RESULTS DATA
Power Spectral Density

UNII-1										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)	-	Pass/Fail
11a	6Mbps	1	36	5180	0.09	7.72	11.00	2.40		Pass
11a	6Mbps	1	44	5220	0.09	7.53	11.00	2.40		Pass
11a	6Mbps	1	48	5240	0.09	7.79	11.00	2.40		Pass
HT20	MCS0	1	36	5180	0.08	6.64	11.00	2.40		Pass
HT20	MCS0	1	44	5220	0.08	6.56	11.00	2.40		Pass
HT20	MCS0	1	48	5240	0.08	6.98	11.00	2.40		Pass
HT40	MCS0	1	38	5190	0.17	3.72	11.00	2.40		Pass
HT40	MCS0	1	46	5230	0.17	3.58	11.00	2.40		Pass
VHT80	MCS0	1	42	5210	0.35	-1.05	11.00	2.40		Pass

Report Number : FR420616D

TEST RESULTS DATA
26dB and 99% OBW

UNII-2A										
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	6M bps	1	52	5260	17.48	28.14	23.43	29.43	23.98	
11a	6M bps	1	60	5300	17.63	29.34	23.46	29.46	23.98	
11a	6M bps	1	64	5320	17.58	28.32	23.45	29.45	23.98	
HT20	MCS 0	1	52	5260	18.38	28.98	23.64	29.64	23.98	
HT20	MCS 0	1	60	5300	18.33	29.34	23.63	29.63	23.98	
HT20	MCS 0	1	64	5320	18.33	28.08	23.63	29.63	23.98	
HT40	MCS 0	1	54	5270	36.46	42.36	23.98	30.00	23.98	
HT40	MCS 0	1	62	5310	36.46	42.24	23.98	30.00	23.98	
VHT80	MCS 0	1	58	5290	75.76	85.44	23.98	30.00	23.98	

Report Number : FR420616D

TEST RESULTS DATA
Average Power Table

UNII-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
11a	6M bps	1	52	5260	0.09	18.86	23.98	3.30	26.99	Pass
11a	6M bps	1	60	5300	0.09	19.00	23.98	3.30	26.99	Pass
11a	6M bps	1	64	5320	0.09	19.02	23.98	3.30	26.99	Pass
HT20	MCS 0	1	52	5260	0.08	18.11	23.98	3.30	26.99	Pass
HT20	MCS 0	1	60	5300	0.08	18.21	23.98	3.30	26.99	Pass
HT20	MCS 0	1	64	5320	0.08	18.39	23.98	3.30	26.99	Pass
HT40	MCS 0	1	54	5270	0.17	18.26	23.98	3.30	26.99	Pass
HT40	MCS 0	1	62	5310	0.17	16.39	23.98	3.30	26.99	Pass
VHT80	MCS 0	1	58	5290	0.35	15.41	23.98	3.30	26.99	Pass

Report Number : FR420616D

TEST RESULTS DATA
Power Spectral Density

UNII-2A										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	52	5260	0.09	7.78	11.00	3.30		Pass
11a	6M bps	1	60	5300	0.09	7.82	11.00	3.30		Pass
11a	6M bps	1	64	5320	0.09	7.79	11.00	3.30		Pass
HT20	MCS 0	1	52	5260	0.08	6.93	11.00	3.30		Pass
HT20	MCS 0	1	60	5300	0.08	6.98	11.00	3.30		Pass
HT20	MCS 0	1	64	5320	0.08	6.91	11.00	3.30		Pass
HT40	MCS 0	1	54	5270	0.17	3.98	11.00	3.30		Pass
HT40	MCS 0	1	62	5310	0.17	3.93	11.00	3.30		Pass
VHT80	MCS 0	1	58	5290	0.35	-0.65	11.00	3.30		Pass

Report Number : FR420616D

TEST RESULTS DATA
26dB and 99% OBW

UNII-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	6M bps	1	100	5500	17.68	29.10	23.47	29.47	23.98	
11a	6M bps	1	116	5580	17.68	30.24	23.47	29.47	23.98	
11a	6M bps	1	140	5700	17.48	28.80	23.43	29.43	23.98	
11a	6Mbps	1	144	5720	17.68	29.40	23.47	29.47	23.98	
HT20	MCS 0	1	100	5500	18.43	29.52	23.66	29.66	23.98	
HT20	MCS 0	1	116	5580	18.38	29.34	23.64	29.64	23.98	
HT20	MCS 0	1	140	5700	18.23	28.14	23.61	29.61	23.98	
HT20	MCS0	1	144	5720	18.33	28.62	23.63	29.63	23.98	
HT40	MCS 0	1	102	5510	36.66	50.16	23.98	30.00	23.98	
HT40	MCS 0	1	110	5550	36.56	42.48	23.98	30.00	23.98	
HT40	MCS 0	1	134	5670	36.56	42.48	23.98	30.00	23.98	
HT40	MCS0	1	142	5710	36.56	42.24	23.98	30.00	23.98	
VHT80	MCS 0	1	106	5530	75.76	85.44	23.98	30.00	23.98	
VHT80	MCS 0	1	122	5610	75.76	85.20	23.98	30.00	23.98	
VHT80	MCS0	1	138	5690	75.88	84.24	23.98	30.00	23.98	

Report Number : FR420616D

TEST RESULTS DATA
Average Power Table

UNII-2C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6M bps	1	100	5500	0.09	18.20	23.98	3.40	26.99	Pass
11a	6M bps	1	116	5580	0.09	18.90	23.98	3.40	26.99	Pass
11a	6M bps	1	140	5700	0.09	14.68	23.98	3.40	26.99	Pass
11a	6M bps	1	144	5720	0.09	18.73	23.98	3.40	26.99	Pass
HT20	MCS 0	1	100	5500	0.08	14.88	23.98	3.40	26.99	Pass
HT20	MCS 0	1	116	5580	0.08	18.24	23.98	3.40	26.99	Pass
HT20	MCS 0	1	140	5700	0.08	13.80	23.98	3.40	26.99	Pass
HT20	MCS 0	1	144	5720	0.08	18.15	23.98	3.40	26.99	Pass
HT40	MCS 0	1	102	5510	0.17	16.55	23.98	3.40	26.99	Pass
HT40	MCS 0	1	110	5550	0.17	17.95	23.98	3.40	26.99	Pass
HT40	MCS 0	1	134	5670	0.17	17.16	23.98	3.40	26.99	Pass
HT40	MCS 0	1	142	5710	0.17	17.84	23.98	3.40	26.99	Pass
VHT80	MCS 0	1	106	5530	0.35	14.19	23.98	3.40	26.99	Pass
VHT80	MCS 0	1	122	5610	0.35	16.71	23.98	3.40	26.99	Pass
VHT80	MCS 0	1	138	5690	0.35	16.56	23.98	3.40	26.99	Pass

Report Number : FR420616D

TEST RESULTS DATA
Power Spectral Density

UNII-2C										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass/Fail
11a	6M bps	1	100	5500	0.09	7.84	11.00	3.40		Pass
11a	6M bps	1	116	5580	0.09	8.02	11.00	3.40		Pass
11a	6M bps	1	140	5700	0.09	7.72	11.00	3.40		Pass
11a	6Mbps	1	144	5720	0.09	7.86	11.00	3.40		Pass
HT20	MCS 0	1	100	5500	0.08	6.97	11.00	3.40		Pass
HT20	MCS 0	1	116	5580	0.08	7.11	11.00	3.40		Pass
HT20	MCS 0	1	140	5700	0.08	6.68	11.00	3.40		Pass
HT20	MCS0	1	144	5720	0.08	6.87	11.00	3.40		Pass
HT40	MCS 0	1	102	5510	0.17	3.89	11.00	3.40		Pass
HT40	MCS 0	1	110	5550	0.17	3.82	11.00	3.40		Pass
HT40	MCS 0	1	134	5670	0.17	3.56	11.00	3.40		Pass
HT40	MCS0	1	142	5710	0.17	3.66	11.00	3.40		Pass
VHT80	MCS 0	1	106	5530	0.35	-0.66	11.00	3.40		Pass
VHT80	MCS 0	1	122	5610	0.35	-0.54	11.00	3.40		Pass
VHT80	MCS0	1	138	5690	0.35	-0.95	11.00	3.40		Pass

Report Number : FR420616D

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

UNII-3									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	6dB Bandwidth min. Limit (MHz)	Pass/Fail
11a	6M bps	1	149	5745	18.08	29.16	16.00	0.5	Pass
11a	6Mbps	1	157	5785	17.33	29.28	16.40	0.5	Pass
11a	6Mbps	1	165	5825	17.43	29.64	15.55	0.5	Pass
HT20	MCS 0	1	149	5745	18.43	28.98	15.20	0.5	Pass
HT20	MCS 0	1	157	5785	18.28	29.52	16.85	0.5	Pass
HT20	MCS 0	1	165	5825	18.23	28.26	15.55	0.5	Pass
HT40	MCS 0	1	151	5755	36.56	42.48	35.28	0.5	Pass
HT40	MCS 0	1	159	5795	36.66	44.52	35.28	0.5	Pass
VHT80	MCS 0	1	155	5775	75.88	84.72	75.52	0.5	Pass

Report Number : FR420616D

TEST RESULTS DATA
Average Power Table

UNII-3										
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6M bps	1	149	5745	0.09	19.06	30.00	3.50		Pass
11a	6Mbps	1	157	5785	0.09	18.44	30.00	3.50		Pass
11a	6Mbps	1	165	5825	0.09	18.66	30.00	3.50		Pass
HT20	MCS 0	1	149	5745	0.08	18.63	30.00	3.50		Pass
HT20	MCS 0	1	157	5785	0.08	18.00	30.00	3.50		Pass
HT20	MCS 0	1	165	5825	0.08	18.01	30.00	3.50		Pass
HT40	MCS 0	1	151	5755	0.17	18.51	30.00	3.50		Pass
HT40	MCS 0	1	159	5795	0.17	17.99	30.00	3.50		Pass
VHT80	MCS 0	1	155	5775	0.35	16.45	30.00	3.50		Pass

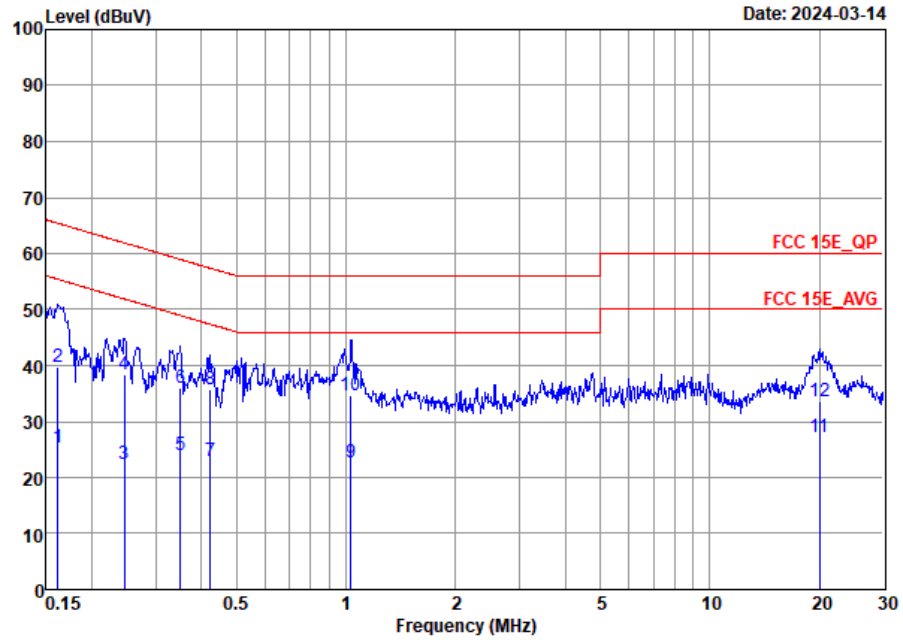
Report Number : FR420616D

TEST RESULTS DATA
Power Spectral Density

UNII-3										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	10log (500kHz /RBW) Factor (dB)	Average Power Density (dBm/500kHz)	Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.09	2.22	5.27	30.00	3.50	Pass
11a	6Mbps	1	157	5785	0.09	2.22	4.66	30.00	3.50	Pass
11a	6Mbps	1	165	5825	0.09	2.22	4.60	30.00	3.50	Pass
HT20	MCS 0	1	149	5745	0.08	2.22	4.29	30.00	3.50	Pass
HT20	MCS 0	1	157	5785	0.08	2.22	3.65	30.00	3.50	Pass
HT20	MCS 0	1	165	5825	0.08	2.22	3.72	30.00	3.50	Pass
HT40	MCS 0	1	151	5755	0.17	2.22	1.27	30.00	3.50	Pass
HT40	MCS 0	1	159	5795	0.17	2.22	0.62	30.00	3.50	Pass
VHT80	MCS 0	1	155	5775	0.35	2.22	-3.72	30.00	3.50	Pass

Appendix B. AC Conducted Emission Test Results

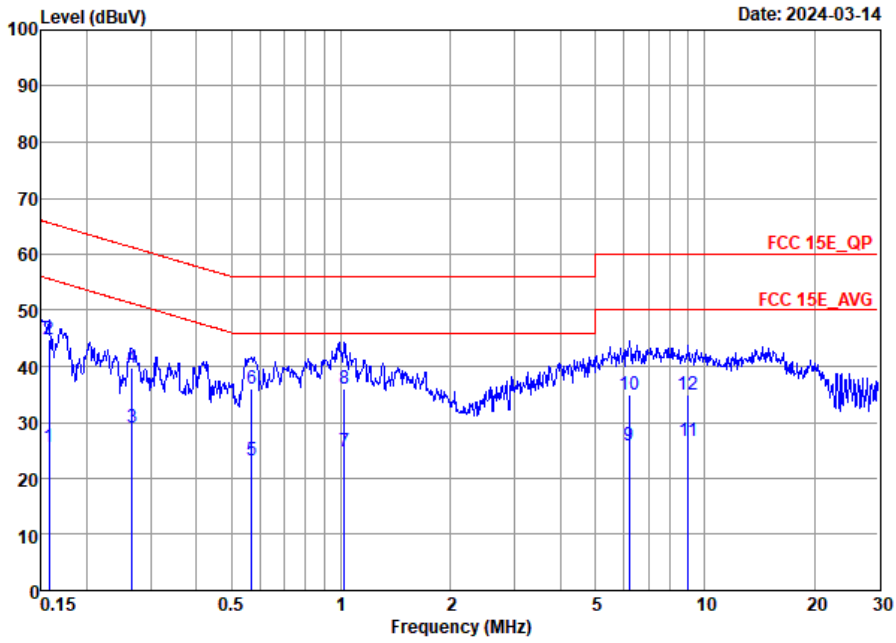
Test Engineer :	FangMing Liang	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



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

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	25.43	-29.95	55.38	4.99	10.30	10.14	Average
2		0.16	39.83	-25.55	65.38	19.39	10.30	10.14	QP
3		0.25	22.31	-29.60	51.91	2.00	10.16	10.15	Average
4		0.25	38.51	-23.40	61.91	18.20	10.16	10.15	QP
5		0.35	24.09	-24.87	48.96	3.70	10.23	10.16	Average
6		0.35	35.89	-23.07	58.96	15.50	10.23	10.16	QP
7		0.42	23.06	-24.31	47.37	2.50	10.40	10.16	Average
8		0.42	35.76	-21.61	57.37	15.20	10.40	10.16	QP
9		1.03	22.70	-23.30	46.00	2.31	10.23	10.16	Average
10	*	1.03	34.60	-21.40	56.00	14.21	10.23	10.16	QP
11		20.06	27.07	-22.93	50.00	6.40	10.11	10.56	Average
12		20.06	33.67	-26.33	60.00	13.00	10.11	10.56	QP

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



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

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	25.61	-29.99	55.60	5.20	10.27	10.14	Average
2		0.16	44.91	-20.69	65.60	24.50	10.27	10.14	QP
3		0.27	29.12	-22.13	51.25	8.71	10.26	10.15	Average
4		0.27	39.82	-21.43	61.25	19.41	10.26	10.15	QP
5		0.57	23.30	-22.70	46.00	3.00	10.14	10.16	Average
6	*	0.57	35.90	-20.10	56.00	15.60	10.14	10.16	QP
7		1.02	24.88	-21.12	46.00	4.50	10.22	10.16	Average
8		1.02	35.88	-20.12	56.00	15.50	10.22	10.16	QP
9		6.19	25.83	-24.17	50.00	5.20	10.27	10.36	Average
10		6.19	35.03	-24.97	60.00	14.40	10.27	10.36	QP
11		9.01	26.65	-23.35	50.00	6.00	10.27	10.38	Average
12		9.01	35.05	-24.95	60.00	14.40	10.27	10.38	QP

Note:

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

Appendix C. Radiated Spurious Emission Test Data

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

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	22	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	22	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	22	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	22	802.11n HT20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	22	802.11n HT20	44	5220	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	22	802.11n HT20	48	5240	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	22	802.11n HT40	38	5190	MCS0	-	-
Mode 8	U-NII-1	5.15-5.25	22	802.11n HT40	46	5230	MCS0	-	-
Mode 9	U-NII-1	5.15-5.25	22	802.11ac VHT80	42	5210	MCS0	-	-
Mode 10	U-NII-2A	5.25-5.35	22	802.11a	52	5260	6Mbps	-	-
Mode 11	U-NII-2A	5.25-5.35	22	802.11a	60	5300	6Mbps	-	-
Mode 12	U-NII-2A	5.25-5.35	22	802.11a	64	5320	6Mbps	-	-
Mode 13	U-NII-2A	5.25-5.35	22	802.11n HT20	52	5260	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	22	802.11n HT20	60	5300	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	22	802.11n HT20	64	5320	MCS0	-	-
Mode 16	U-NII-2A	5.25-5.35	22	802.11n HT40	54	5270	MCS0	-	-
Mode 17	U-NII-2A	5.25-5.35	22	802.11n HT40	62	5310	MCS0	-	-
Mode 18	U-NII-2A	5.25-5.35	22	802.11ac VHT80	58	5290	MCS0	-	-
Mode 19	U-NII-2C	5.47-5.725	22	802.11a	100	5500	6Mbps	-	-
Mode 20	U-NII-2C	5.47-5.725	22	802.11a	116	5580	6Mbps	-	-
Mode 21	U-NII-2C	5.47-5.725	22	802.11a	140	5700	6Mbps	-	-
Mode 22	U-NII-2C	5.47-5.725	22	802.11n HT20	100	5500	MCS0	-	-
Mode 23	U-NII-2C	5.47-5.725	22	802.11n HT20	116	5580	MCS0	-	-
Mode 24	U-NII-2C	5.47-5.725	22	802.11n HT20	140	5700	MCS0	-	-
Mode 25	U-NII-2C	5.47-5.725	22	802.11n HT40	102	5510	MCS0	-	-
Mode 26	U-NII-2C	5.47-5.725	22	802.11n HT40	134	5670	MCS0	-	-
Mode 27	U-NII-2C	5.47-5.725	22	802.11ac VHT80	106	5530	MCS0	-	-
Mode 28	U-NII-2C	5.47-5.725	22	802.11ac VHT80	122	5610	MCS0	-	-
Mode 29	Straddle channels	5.47-5.725	22	802.11a	144	5720	6Mbps	-	-
Mode 30	Straddle channels	5.47-5.725	22	802.11n HT20	144	5720	MCS0	-	-
Mode 31	Straddle channels	5.47-5.725	22	802.11n HT40	142	5710	MCS0	-	-
Mode 32	Straddle channels	5.47-5.725	22	802.11ac VHT80	138	5690	MCS0	-	-
Mode 33	U-NII-3	5.725-5.85	22	802.11a	149	5745	6Mbps	-	-
Mode 34	U-NII-3	5.725-5.85	22	802.11a	157	5785	6Mbps	-	-
Mode 35	U-NII-3	5.725-5.85	22	802.11a	165	5825	6Mbps	-	-
Mode 36	U-NII-3	5.725-5.85	22	802.11n HT20	149	5745	MCS0	-	-
Mode 37	U-NII-3	5.725-5.85	22	802.11n HT20	157	5785	MCS0	-	-
Mode 38	U-NII-3	5.725-5.85	22	802.11n HT20	165	5825	MCS0	-	-
Mode 39	U-NII-3	5.725-5.85	22	802.11n HT40	151	5755	MCS0	-	-
Mode 40	U-NII-3	5.725-5.85	22	802.11n HT40	159	5795	MCS0	-	-
Mode 41	U-NII-3	5.725-5.85	22	802.11ac VHT80	155	5775	MCS0	-	-
Mode 42	U-NII-2A	5.25-5.35	22	802.11ac VHT80	58	5290	MCS0	-	LF
Mode 43	U-NII-3	5.725-5.85	22	802.11n HT40	151	5755	MCS0	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5133.38	46.18	54.00	-7.82	H	AVERAGE	Pass	Band Edge
1	802.11a	36	10360.00	47.10	68.30	-21.20	H	Peak	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
2	802.11a	44	10440.00	47.63	68.30	-20.67	V	Peak	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
3	802.11a	48	10480.00	47.95	68.30	-20.35	V	Peak	Pass	Harmonic
4	802.11n HT20	36	5148.68	46.23	54.00	-7.77	H	AVERAGE	Pass	Band Edge
4	802.11n HT20	36	10360.00	47.41	68.30	-20.89	H	Peak	Pass	Harmonic
5	802.11n HT20	44	-	-	-	-	-	-	-	Band Edge
5	802.11n HT20	44	10440.00	49.06	68.30	-19.24	V	Peak	Pass	Harmonic
6	802.11n HT20	48	-	-	-	-	-	-	-	Band Edge
6	802.11n HT20	48	10480.00	47.90	68.30	-20.40	H	Peak	Pass	Harmonic
7	802.11n HT40	38	5149.53	51.68	54.00	-2.32	H	AVERAGE	Pass	Band Edge
7	802.11n HT40	38	-	-	-	-	-	-	-	Harmonic
8	802.11n HT40	46	5149.96	45.55	54.00	-8.45	H	AVERAGE	Pass	Band Edge
8	802.11n HT40	46	-	-	-	-	-	-	-	Harmonic
9	802.11ac VHT80	42	5149.10	51.24	54.00	-2.76	H	AVERAGE	Pass	Band Edge
9	802.11ac VHT80	42	-	-	-	-	-	-	-	Harmonic
10	802.11a	52	-	-	-	-	-	-	-	Band Edge
10	802.11a	52	10520.00	48.36	68.30	-19.94	H	Peak	Pass	Harmonic
11	802.11a	60	-	-	-	-	-	-	-	Band Edge
11	802.11a	60	15900.00	49.48	74.00	-24.52	V	Peak	Pass	Harmonic
12	802.11a	64	5351.64	49.76	54.00	-4.24	H	AVERAGE	Pass	Band Edge
12	802.11a	64	15960.00	49.17	74.00	-24.83	H	Peak	Pass	Harmonic
13	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
13	802.11n HT20	52	10520.00	48.81	68.30	-19.49	H	Peak	Pass	Harmonic
14	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
14	802.11n HT20	60	15900.00	49.40	74.00	-24.60	H	Peak	Pass	Harmonic
15	802.11n HT20	64	5350.10	51.17	54.00	-2.83	H	AVERAGE	Pass	Band Edge
15	802.11n HT20	64	15960.00	50.26	74.00	-23.74	V	Peak	Pass	Harmonic
16	802.11n HT40	54	5350.18	45.72	54.00	-8.28	H	AVERAGE	Pass	Band Edge
16	802.11n HT40	54	-	-	-	-	-	-	-	Harmonic
17	802.11n HT40	62	5350.80	50.62	54.00	-3.38	H	AVERAGE	Pass	Band Edge
17	802.11n HT40	62	-	-	-	-	-	-	-	Harmonic
18	802.11ac VHT80	58	5367.18	51.86	54.00	-2.14	H	AVERAGE	Pass	Band Edge
18	802.11ac VHT80	58	10580.00	48.23	68.30	-20.07	V	Peak	Pass	Harmonic
19	802.11a	100	5460.55	64.15	68.30	-4.15	H	PEAK	Pass	Band Edge
19	802.11a	100	16500.00	49.89	68.30	-18.41	V	Peak	Pass	Harmonic
20	802.11a	116	-	-	-	-	-	-	-	Band Edge
20	802.11a	116	16740.00	50.06	68.30	-18.24	V	Peak	Pass	Harmonic
21	802.11a	140	5725.61	64.94	68.30	-3.36	H	PEAK	Pass	Band Edge
21	802.11a	140	17100.00	50.83	68.30	-17.47	V	Peak	Pass	Harmonic
22	802.11n HT20	100	5465.95	65.97	68.30	-2.33	H	PEAK	Pass	Band Edge
22	802.11n HT20	100	16500.00	49.83	68.30	-18.47	V	Peak	Pass	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11n HT20	116	-	-	-	-	-	-	-	Band Edge
23	802.11n HT20	116	16740.00	50.07	68.30	-18.23	H	Peak	Pass	Harmonic
24	802.11n HT20	140	5729.97	63.03	68.30	-5.27	H	PEAK	Pass	Band Edge
24	802.11n HT20	140	17100.00	50.00	68.30	-18.30	V	Peak	Pass	Harmonic
25	802.11n HT40	102	5458.80	51.66	54.00	-2.34	H	AVERAGE	Pass	Band Edge
25	802.11n HT40	102	-	-	-	-	-	-	-	Harmonic
26	802.11n HT40	134	5725.39	65.99	68.30	-2.31	H	PEAK	Pass	Band Edge
26	802.11n HT40	134	-	-	-	-	-	-	-	Harmonic
27	802.11ac VHT80	106	5458.54	51.27	54.00	-2.73	H	AVERAGE	Pass	Band Edge
27	802.11ac VHT80	106	-	-	-	-	-	-	-	Harmonic
28	802.11ac VHT80	122	5443.86	44.07	54.00	-9.93	H	AVERAGE	Pass	Band Edge
28	802.11ac VHT80	122	-	-	-	-	-	-	-	Harmonic
29	802.11a	144	5459.45	42.03	54.00	-11.97	H	Peak	Pass	Band Edge
29	802.11a	144	17160.00	49.35	68.30	-18.95	V	Peak	Pass	Harmonic
30	802.11n HT20	144	5460.00	41.18	54.00	-12.82	V	Peak	Pass	Band Edge
30	802.11n HT20	144	17160.00	50.51	68.30	-17.79	H	Peak	Pass	Harmonic
31	802.11n HT40	142	5450.10	42.76	54.00	-11.24	V	Peak	Pass	Band Edge
31	802.11n HT40	142	-	-	-	-	-	-	-	Harmonic
32	11ac VHT80	138	5398.40	42.60	54.00	-11.40	V	Peak	Pass	Band Edge
32	11ac VHT80	138	-	-	-	-	-	-	-	Harmonic
33	802.11a	149	-	-	-	-	-	-	-	Band Edge
33	802.11a	149	7659.99	39.01	54.00	-14.99	V	Average	Pass	Harmonic
34	802.11a	157	-	-	-	-	-	-	-	Band Edge
34	802.11a	157	7713.14	38.89	54.00	-15.11	H	Average	Pass	Harmonic
35	802.11a	165	5931.63	55.19	68.30	-13.11	H	PEAK	Pass	Band Edge
35	802.11a	165	17475.00	50.47	68.30	-17.83	V	Peak	Pass	Harmonic
36	802.11n HT20	149	5633.79	57.60	68.30	-10.70	H	PEAK	Pass	Band Edge
36	802.11n HT20	149	7659.99	38.46	54.00	-15.54	H	Average	Pass	Harmonic
37	802.11n HT20	157	-	-	-	-	-	-	-	Band Edge
37	802.11n HT20	157	7713.14	38.10	54.00	-15.90	H	Average	Pass	Harmonic
38	802.11n HT20	165	5926.38	55.87	68.30	-12.43	H	PEAK	Pass	Band Edge
38	802.11n HT20	165	17475.00	50.27	68.30	-18.03	V	Peak	Pass	Harmonic
39	802.11n HT40	151	5642.32	58.75	68.30	-9.55	H	PEAK	Pass	Band Edge
39	802.11n HT40	151	17265.00	49.13	68.30	-19.17	H	Peak	Pass	Harmonic
40	802.11n HT40	159	5631.40	54.50	68.30	-13.80	H	PEAK	Pass	Band Edge
40	802.11n HT40	159	-	-	-	-	-	-	-	Harmonic
41	802.11ac VHT80	155	5644.10	55.79	68.30	-12.51	H	PEAK	Pass	Band Edge
41	802.11ac VHT80	155	-	-	-	-	-	-	-	Harmonic
42	802.11ac VHT80	58	33.88	31.59	40.00	-8.41	V	PEAK	Pass	LF
43	802.11n HT40	151	32.91	31.73	40.00	-8.27	V	PEAK	Pass	LF

<Co-location mode>

Radiated Spurious Emission Test Modes

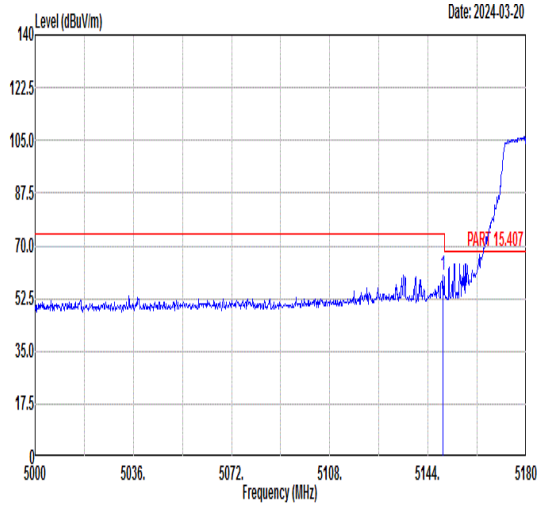
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 44	CO_TX		22	802.11ac VHT80	58	5290	MCS0	-	-
			13	LTE B13 Link	-	-	-	-	-
Mode 45	CO_TX		13	LTE B13 Link	-	-	-	-	-
			22	Bluetooth LE	39	2480	2Mbps	-	-
			22	802.11ac VHT80	58	5290	MCS0	-	-

Summary of each worse mode

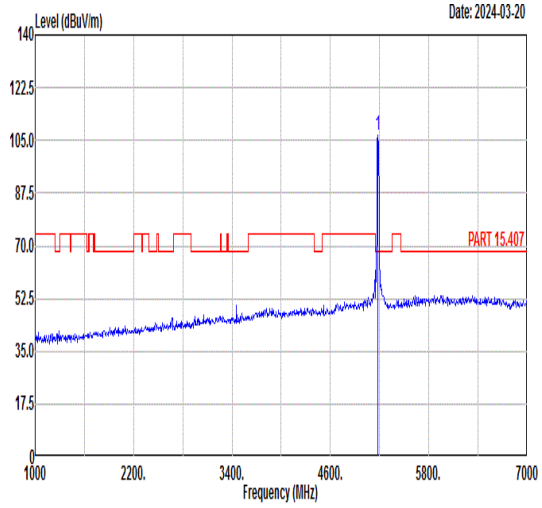
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
44	CO_TX		5354.60	50.38	54.00	-3.62	H	AVERAGE	Pass	Band Edge
			10580.00	48.68	68.30	-19.62	V	Peak	Pass	Harmonic
45	CO_TX		5351.20	50.12	54.00	-3.88	H	AVERAGE	Pass	Band Edge
			10580.00	48.68	68.30	-19.62	V	Peak	Pass	Harmonic

Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

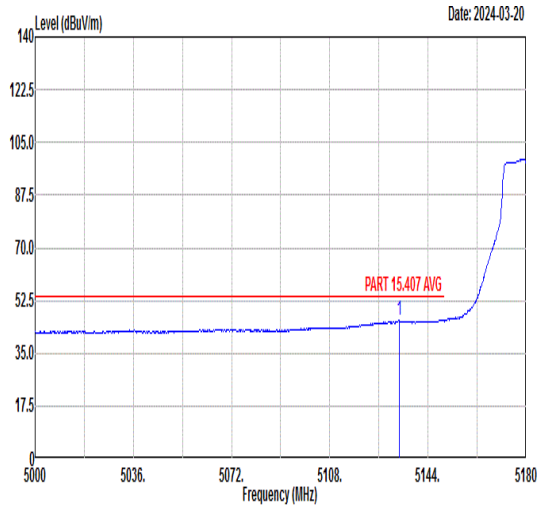


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5149.40	60.36	74.00	-13.64	48.21	36.11	8.53	32.49	100	56	PEAK

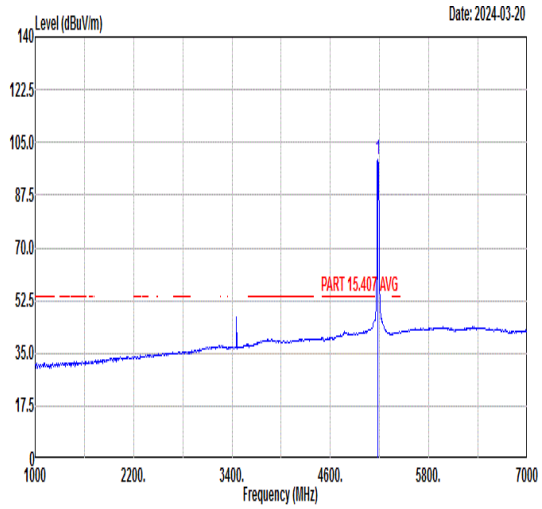


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	106.85	------	------	94.63	36.09	8.58	32.45	100	56	PEAK

Avg



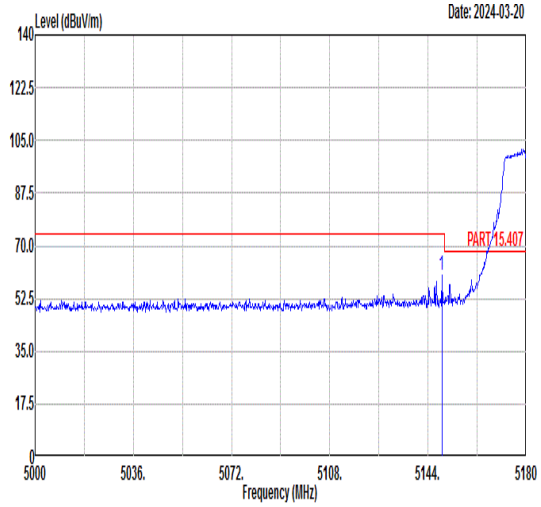
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5133.38	46.18	54.00	-7.82	34.07	36.12	8.50	32.51	100	56	AVERAGE



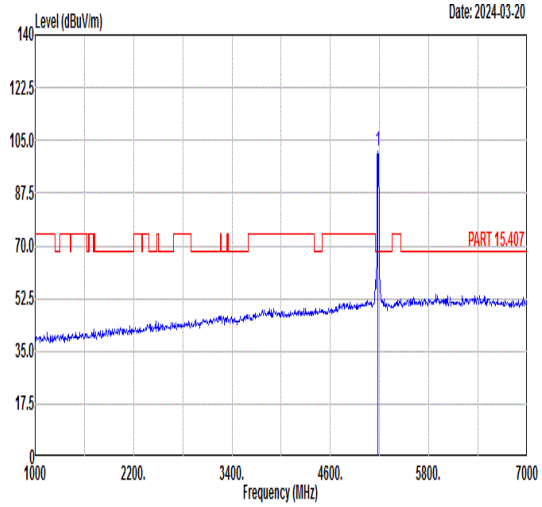
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	99.39	------	------	87.17	36.09	8.58	32.45	100	56	AVERAGE

Mode	1	
	Band Edge	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

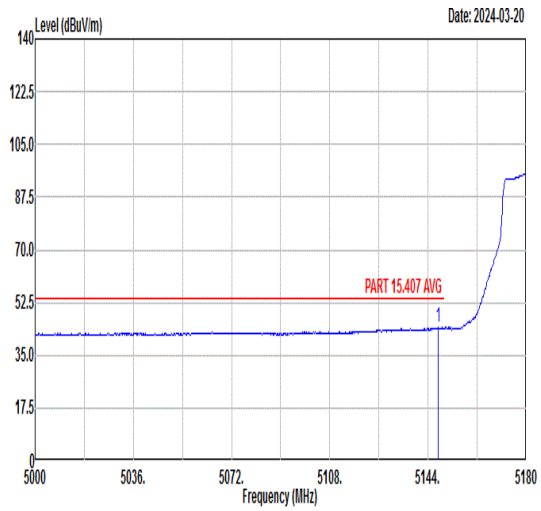


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5149.04	60.17	74.00	-13.83	48.02	36.11	8.53	32.49	103	262	PEAK

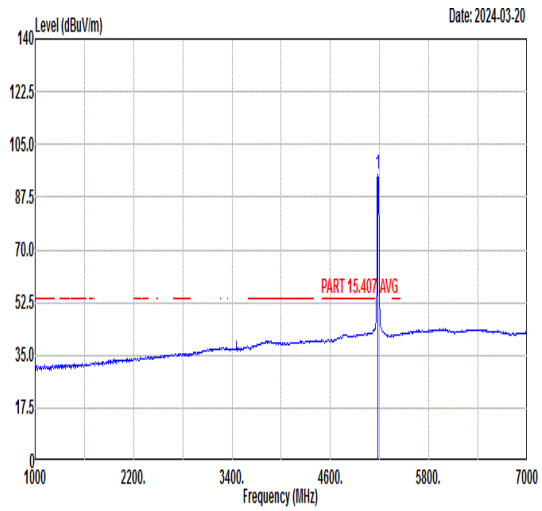


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	101.51	------	------	89.28	36.09	8.59	32.45	103	262	PEAK

Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5147.78	44.21	54.00	-9.79	32.06	36.11	8.53	32.49	103	262	AVERAGE

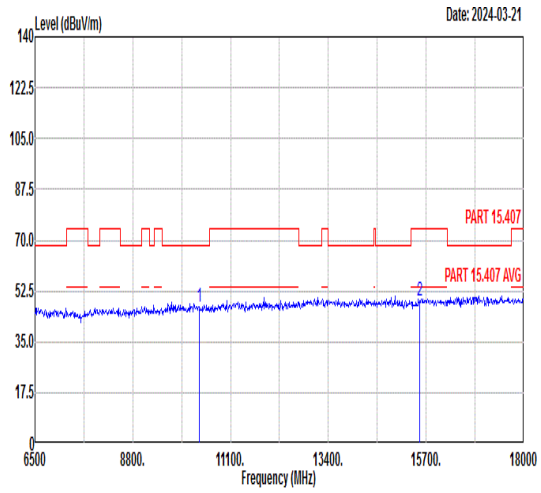


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	94.91	------	------	82.68	36.09	8.59	32.45	103	262	AVERAGE

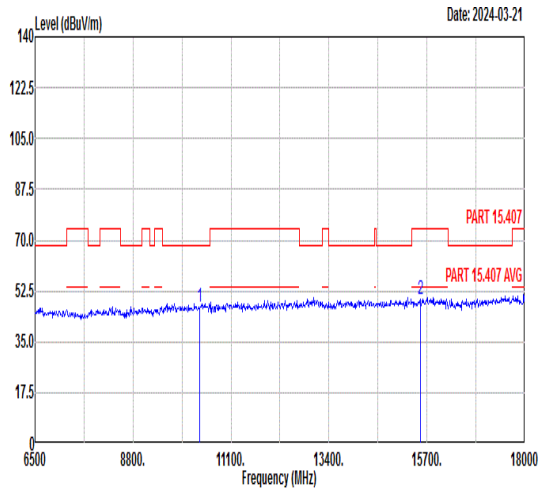
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

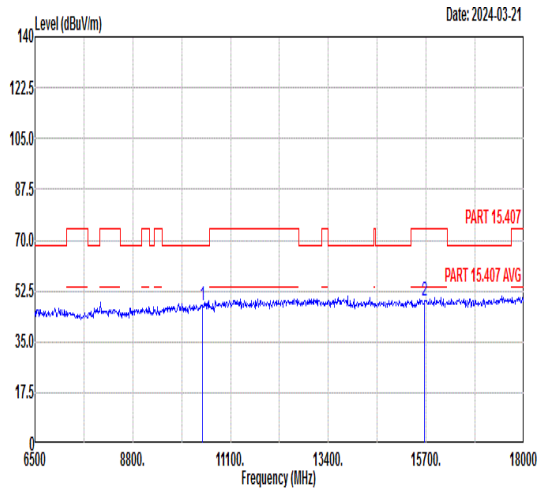
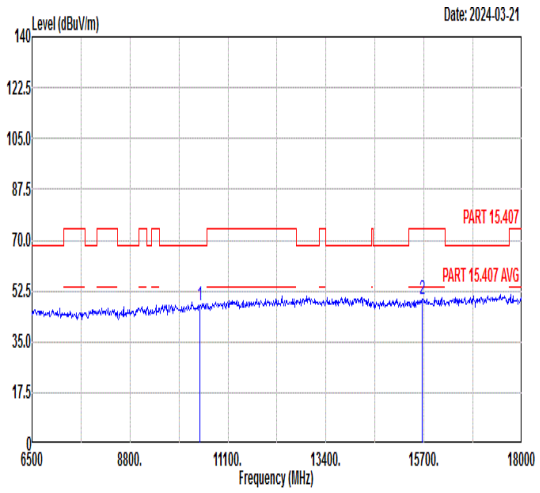
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10360.00	47.10	68.30	-21.20	59.96	38.74	12.06	63.66	---	---	Peak
2	15540.00	49.02	74.00	-24.98	57.70	40.73	14.58	63.99	---	---	Peak

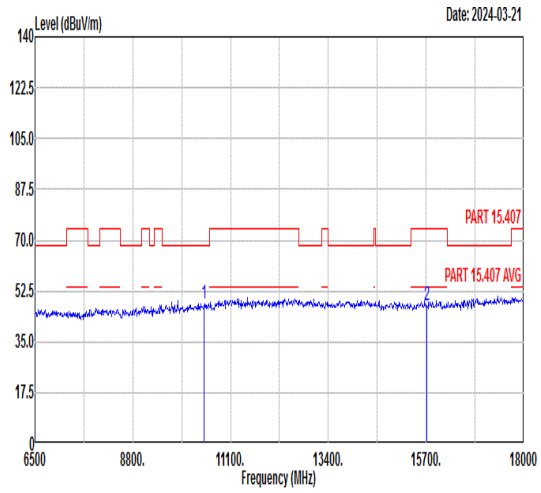
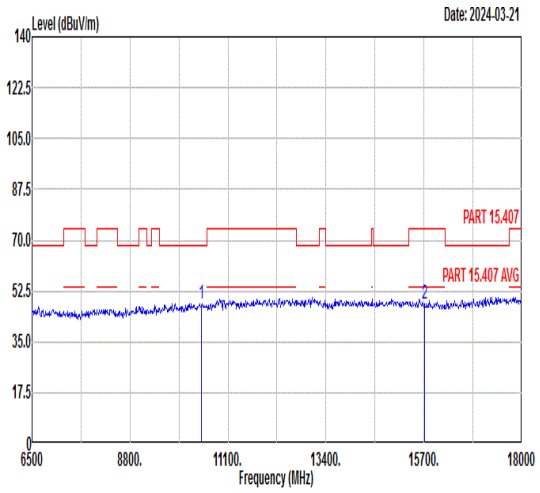


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10360.00	47.00	68.30	-21.30	59.86	38.74	12.06	63.66	---	---	Peak
2	15540.00	49.75	74.00	-24.25	58.43	40.73	14.58	63.99	---	---	Peak

Mode	2	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10440.00	47.48	68.30	-20.82	60.21	38.78	12.12	63.63	---	---	Peak
2	15660.00	48.95	74.00	-25.05	57.51	40.83	14.64	64.03	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10440.00	47.63	68.30	-20.67	60.36	38.78	12.12	63.63	---	---	Peak
2	15660.00	49.49	74.00	-24.51	58.05	40.83	14.64	64.03	---	---	Peak

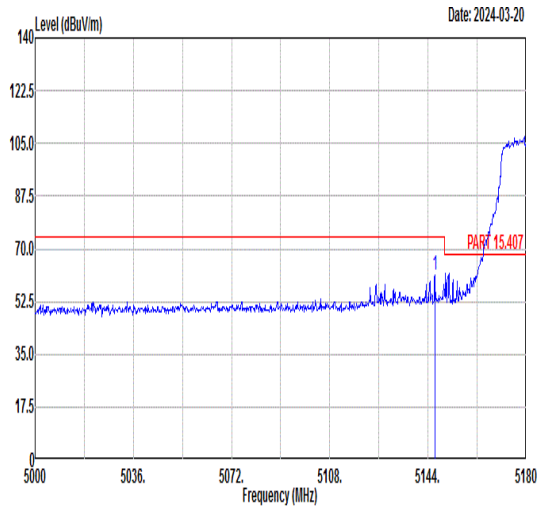
Mode	3	
	Harmonic	
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10480.00	47.85	68.30	-20.45	60.52	38.79	12.15	63.61	---	---	Peak
2	15720.00	47.44	74.00	-26.56	55.95	40.88	14.66	64.05	---	---	Peak

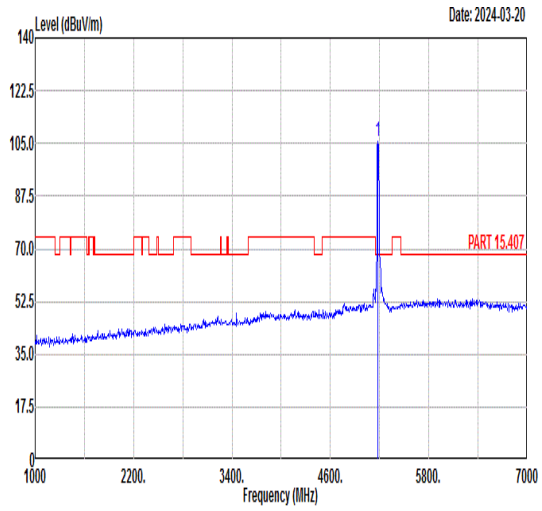
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10480.00	47.95	68.30	-20.35	60.62	38.79	12.15	63.61	---	---	Peak
2	15720.00	48.13	74.00	-25.87	56.64	40.88	14.66	64.05	---	---	Peak

Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

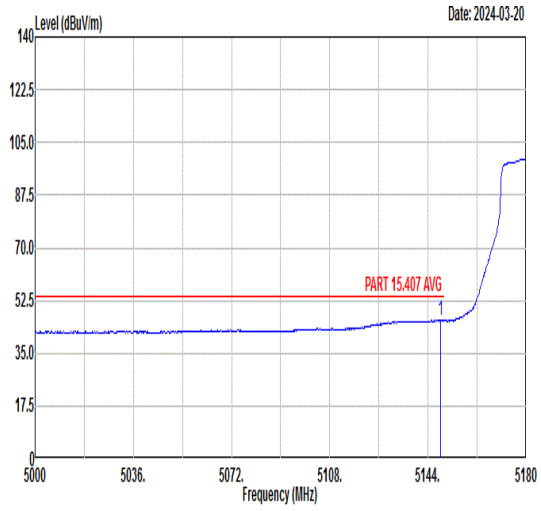


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5146.52	61.10	74.00	-12.90	48.95	36.11	8.53	32.49	100	288	PEAK

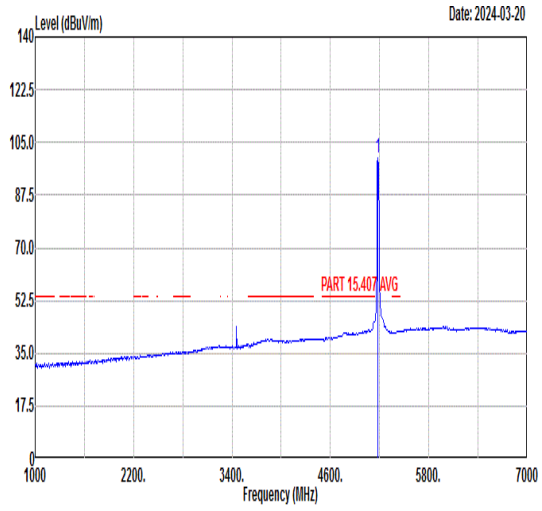


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	105.83	------	------	93.60	36.09	8.59	32.45	100	288	PEAK

Avg



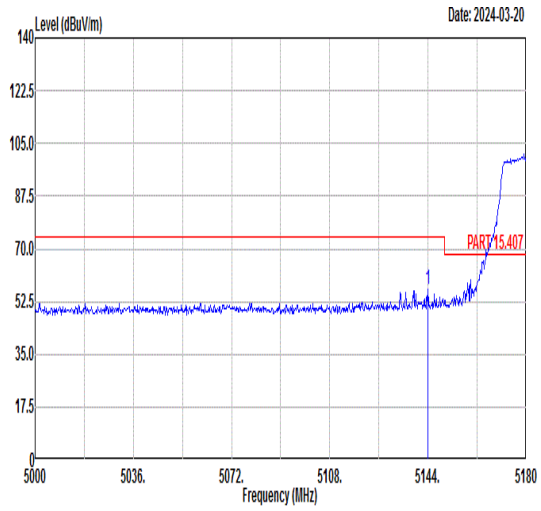
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5148.68	46.23	54.00	-7.77	34.08	36.11	8.53	32.49	100	288	AVERAGE



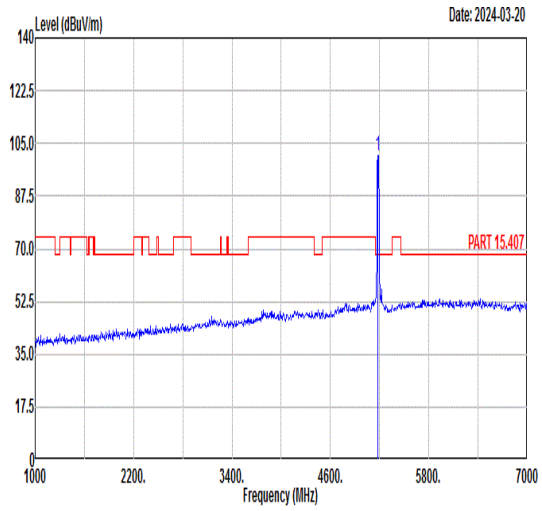
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	99.75	------	------	87.52	36.09	8.59	32.45	100	288	AVERAGE

Mode	4	
	Band Edge	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

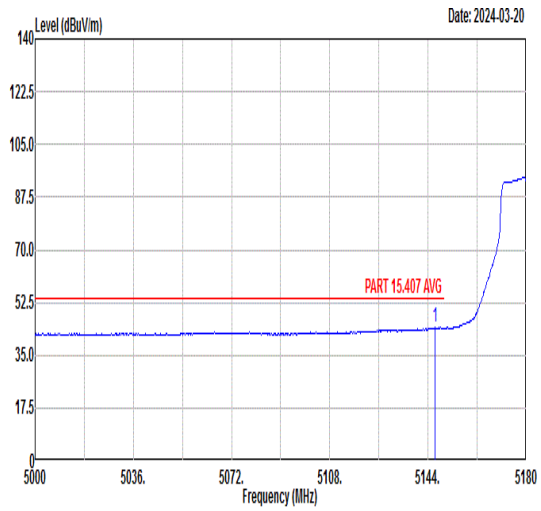


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5143.82	56.42	74.00	-17.58	44.29	36.11	8.52	32.50	100	258	PEAK

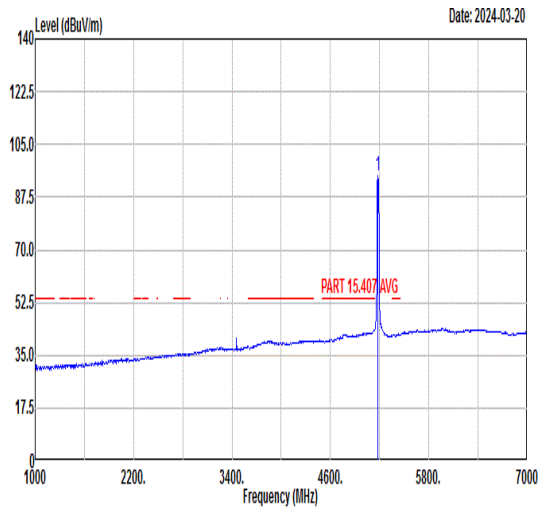


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	101.05	------	------	88.79	36.09	8.61	32.44	100	258	PEAK

Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5146.52	44.28	54.00	-9.72	32.13	36.11	8.53	32.49	100	258	AVERAGE

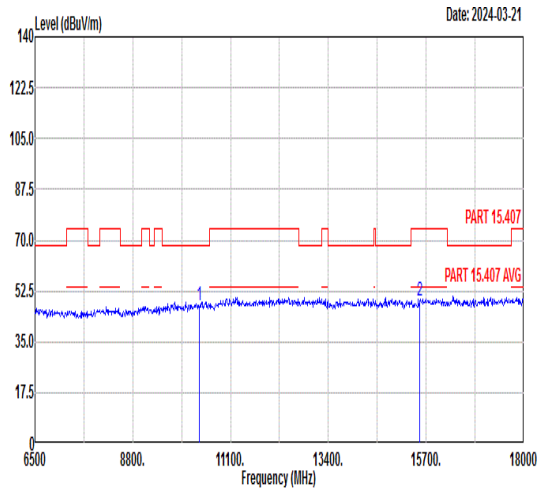


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5180.00	94.44	------	------	82.21	36.09	8.59	32.45	100	258	AVERAGE

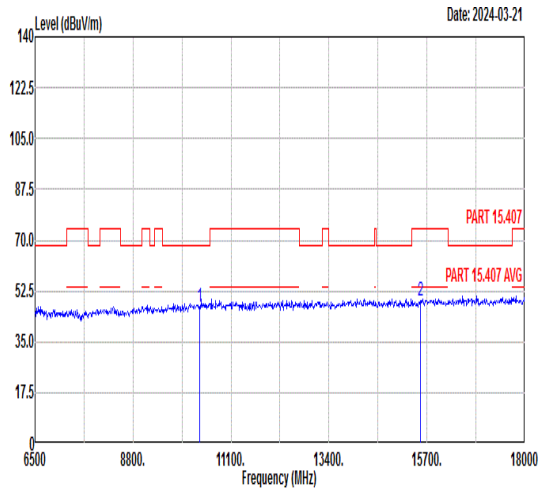
Mode	4	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH36_5180MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

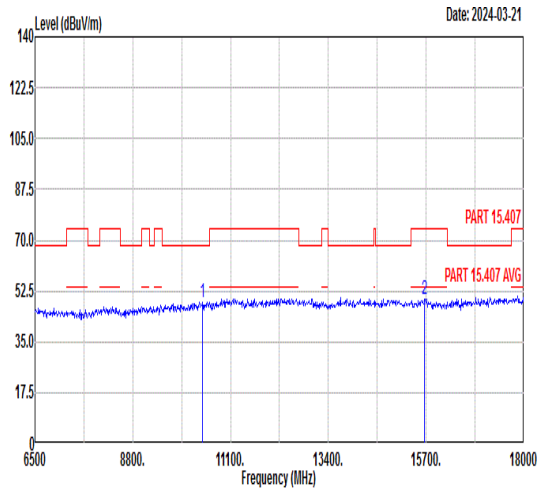
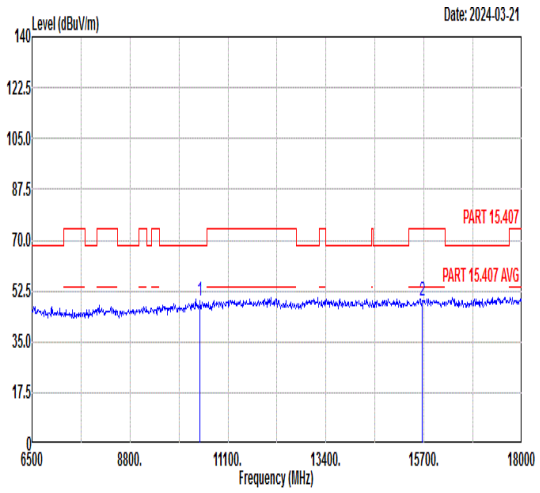
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10360.00	47.41	68.30	-20.89	60.27	38.74	12.06	63.66	---	---	Peak
2	15540.00	48.96	74.00	-25.04	57.64	40.73	14.58	63.99	---	---	Peak



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10360.00	47.28	68.30	-21.02	60.14	38.74	12.06	63.66	---	---	Peak
2	15540.00	49.21	74.00	-24.79	57.89	40.73	14.58	63.99	---	---	Peak

Mode	5	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

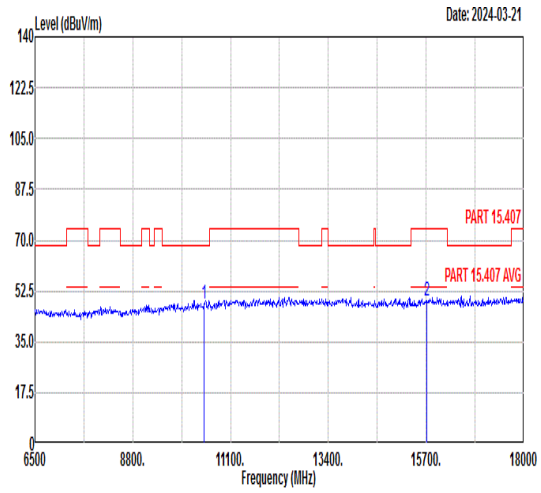
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10440.00	48.67	68.30	-19.63	61.40	38.78	12.12	63.63	---	---	Peak
2	15660.00	49.75	74.00	-24.25	58.31	40.83	14.64	64.03	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10440.00	49.06	68.30	-19.24	61.79	38.78	12.12	63.63	---	---	Peak
2	15660.00	49.05	74.00	-24.95	57.61	40.83	14.64	64.03	---	---	Peak

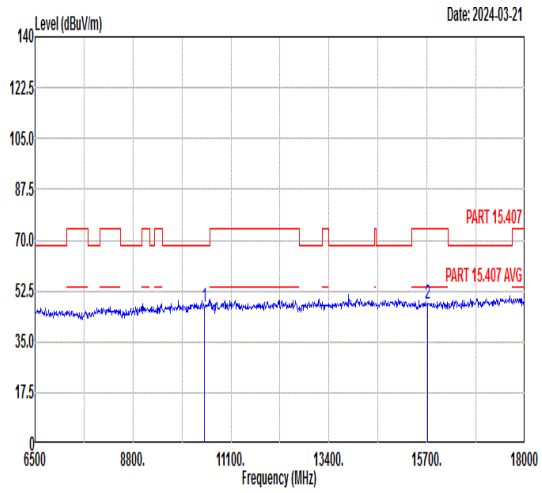
Mode	6	
	Harmonic	
	U-NII-1_5.15-5.25_802.11n HT20_CH48_5240MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

Avg



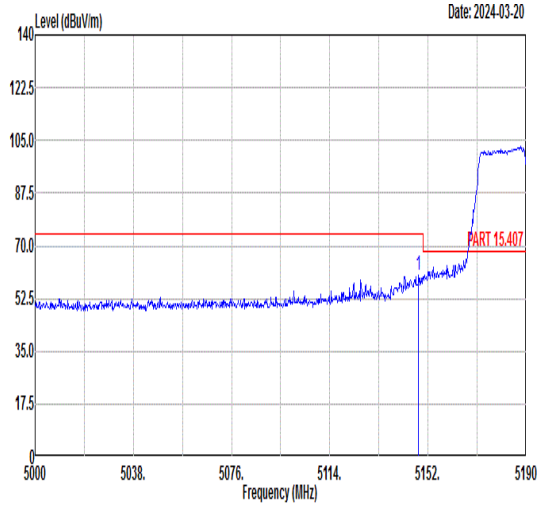
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10480.00	47.90	68.30	-20.40	60.57	38.79	12.15	63.61	---	---	Peak
2	15720.00	48.91	74.00	-25.09	57.42	40.88	14.66	64.05	---	---	Peak



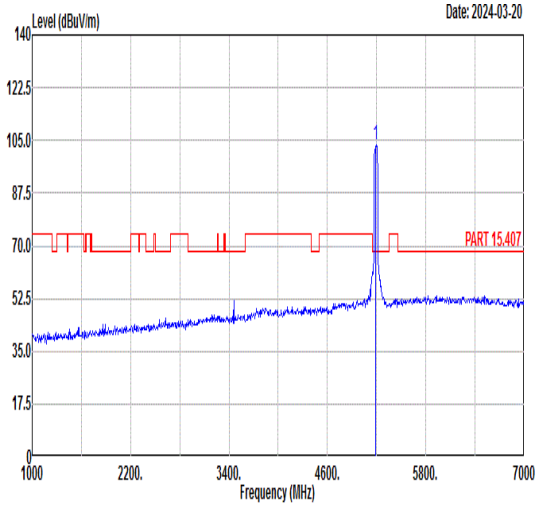
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10480.00	47.15	68.30	-21.15	59.82	38.79	12.15	63.61	---	---	Peak
2	15720.00	48.26	74.00	-25.74	56.77	40.88	14.66	64.05	---	---	Peak

Mode	7	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

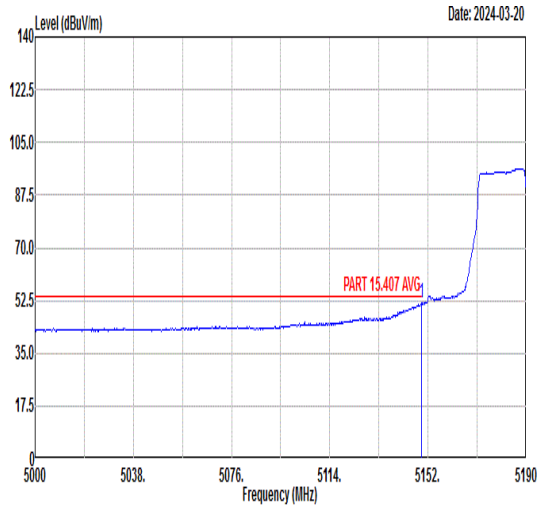


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5148.39	60.29	74.00	-13.71	48.14	36.11	8.53	32.49	106	54	PEAK

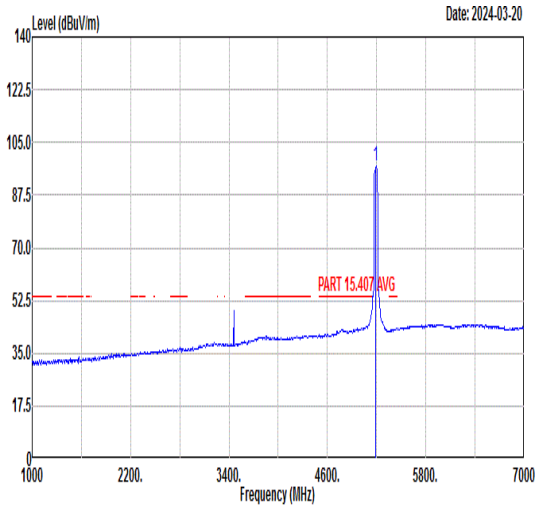


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5190.00	103.64	------	------	91.37	36.08	8.62	32.43	106	54	PEAK

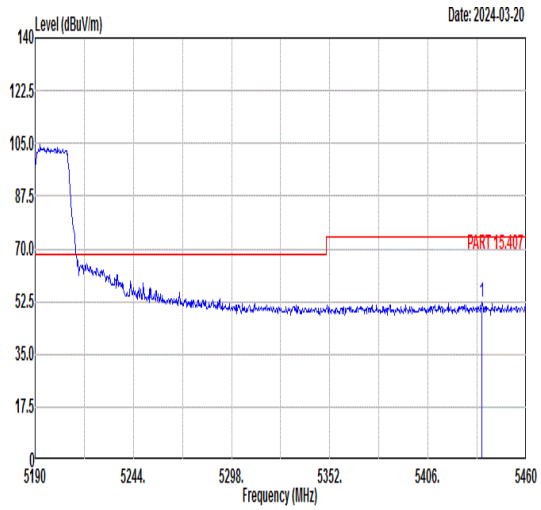
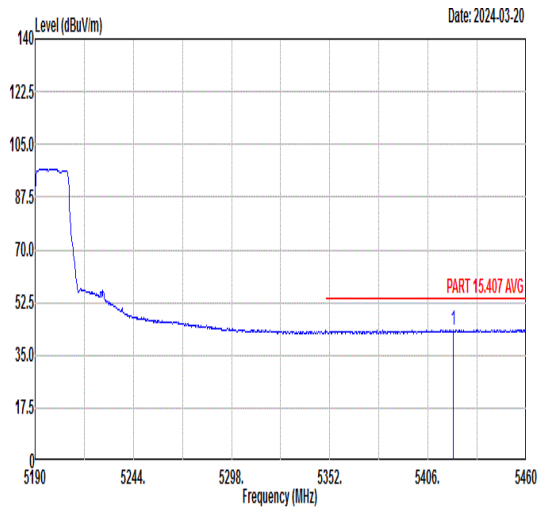
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.53	51.68	54.00	-2.32	39.53	36.11	8.53	32.49	106	54	AVERAGE

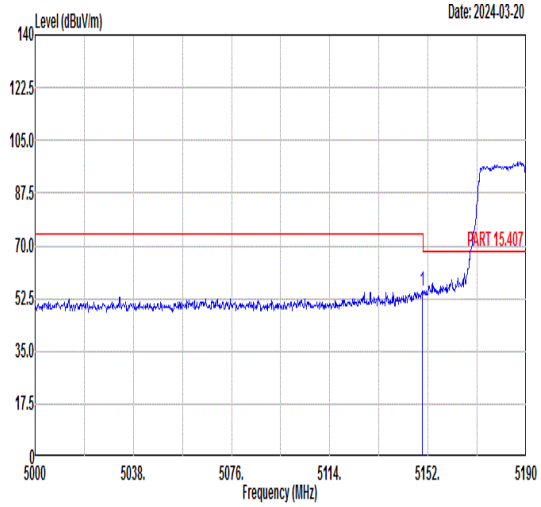


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5190.00	97.07	------	------	84.80	36.08	8.62	32.43	106	54	AVERAGE

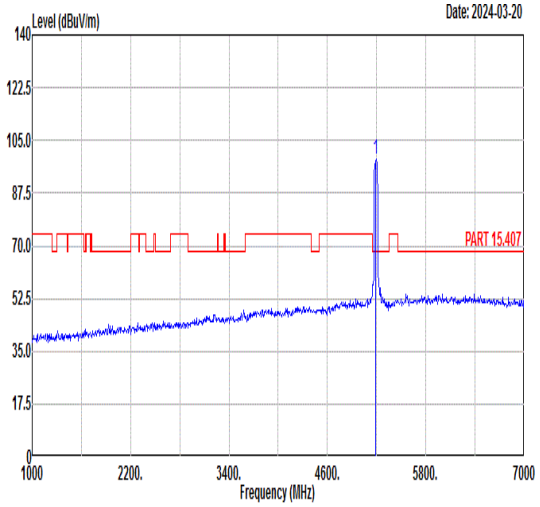
Mode	7	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5435.70 52.19 74.00 -21.81 38.67 35.94 9.67 32.09 106 54 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 5420.04 43.57 54.00 -10.43 30.06 35.95 9.67 32.11 106 54 AVERAGE	Blank

Mode	7	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

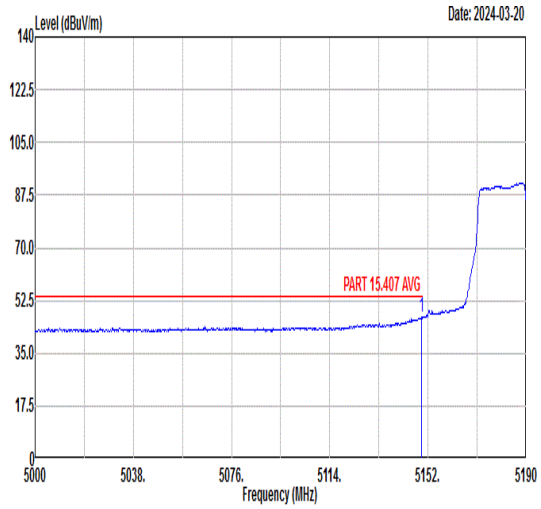


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.91	54.68	74.00	-19.32	42.52	36.11	8.54	32.49	100	217	PEAK

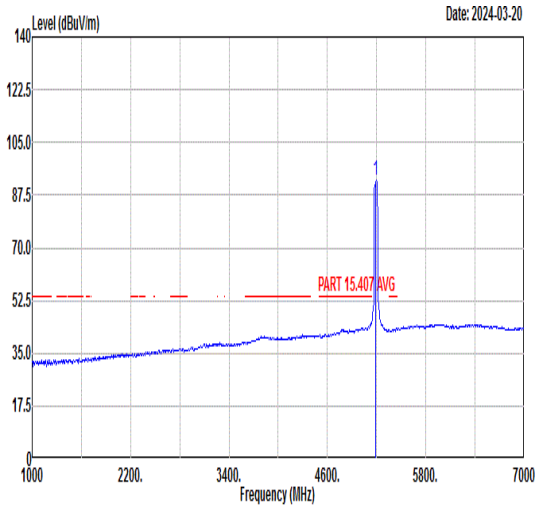


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5190.00	98.71	------	------	86.42	36.08	8.63	32.42	100	217	PEAK

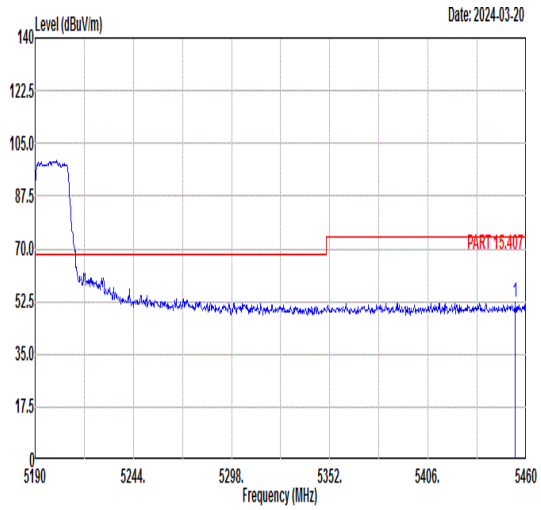
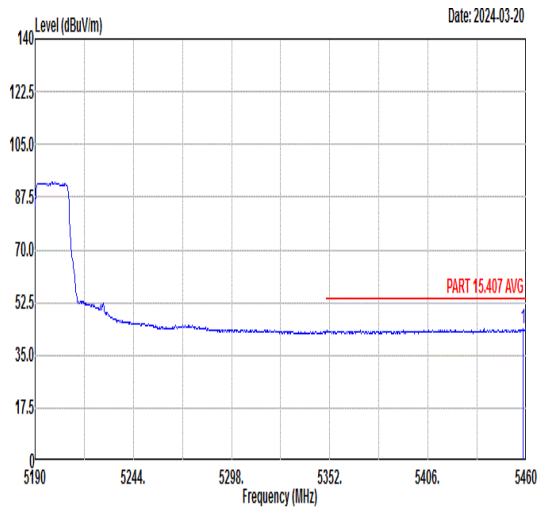
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.53	46.99	54.00	-7.01	34.84	36.11	8.53	32.49	100	217	AVERAGE



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5190.00	92.24	------	------	79.95	36.08	8.63	32.42	100	217	AVERAGE

Mode	7	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH38_5190MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak		Blank
Avg		Blank

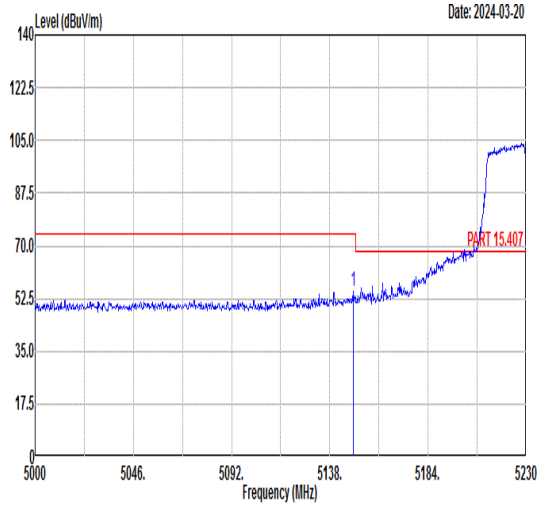
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5454.06	52.16	74.00	-21.84	38.61	35.93	9.68	32.06	100	217	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5458.38	43.68	54.00	-10.32	30.13	35.92	9.69	32.06	100	217	AVERAGE

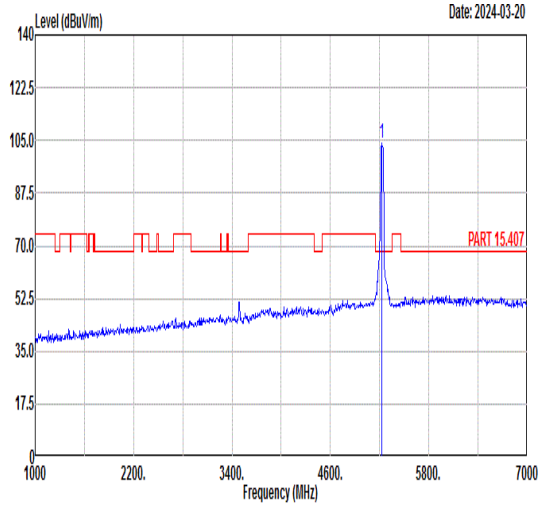
Mode	8
	Band Edge - L
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz
ANT	22

Pol.	Horizontal	Fundamental

Peak

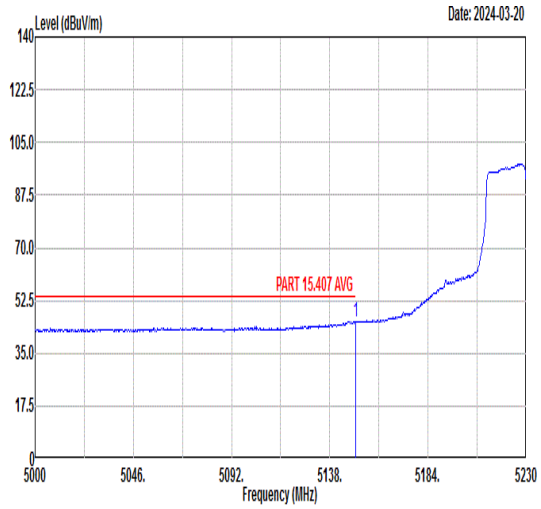


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.04	54.89	74.00	-19.11	42.74	36.11	8.53	32.49	100	63	PEAK

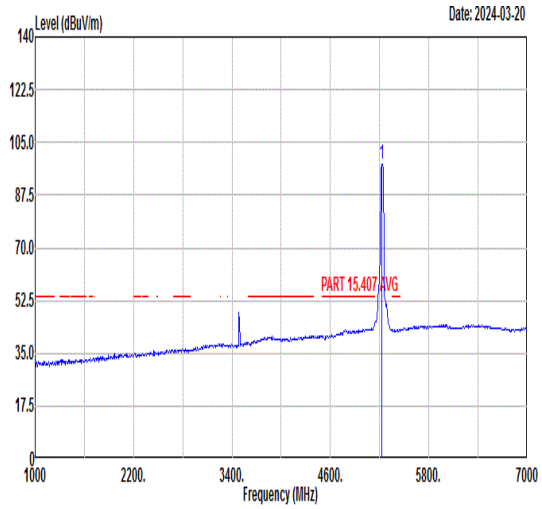


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5230.00	103.93	------	------	91.51	36.06	8.74	32.38	100	63	PEAK

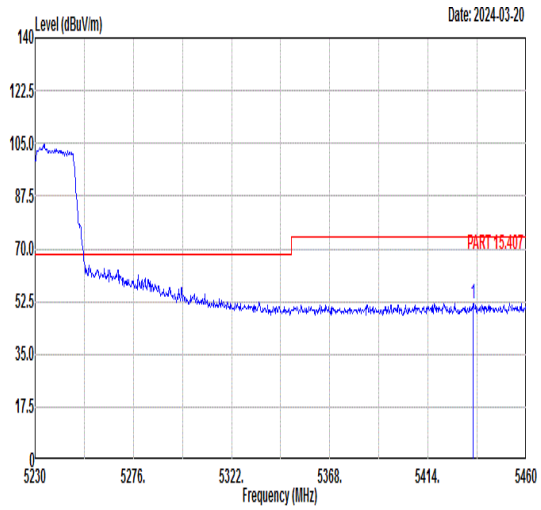
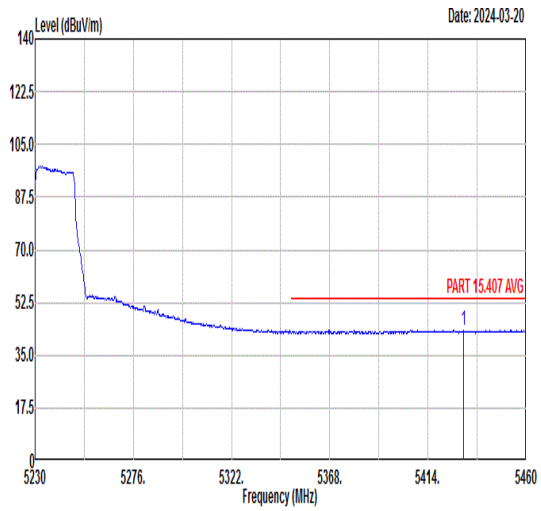
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.96	45.55	54.00	-8.45	33.39	36.11	8.54	32.49	100	63	AVERAGE



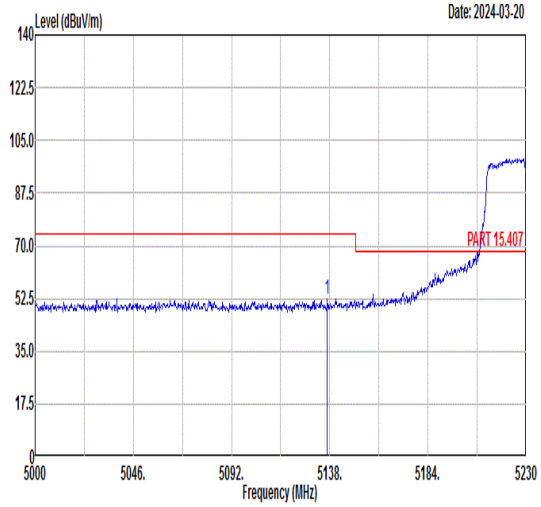
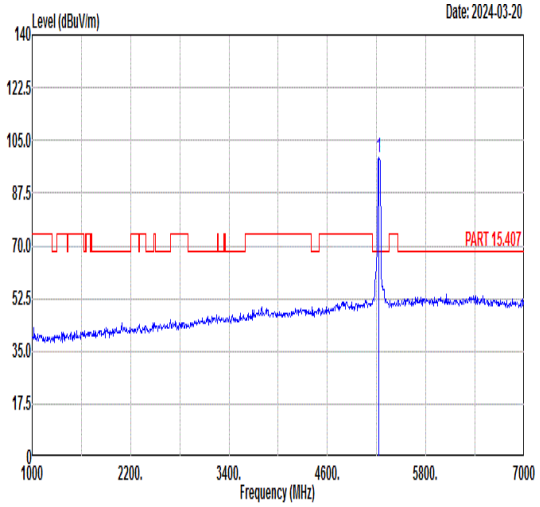
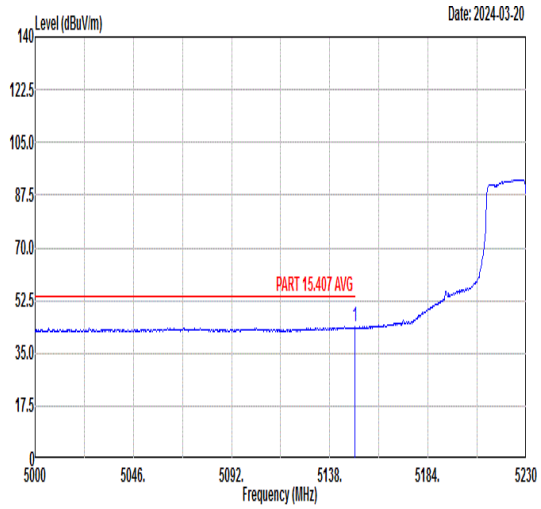
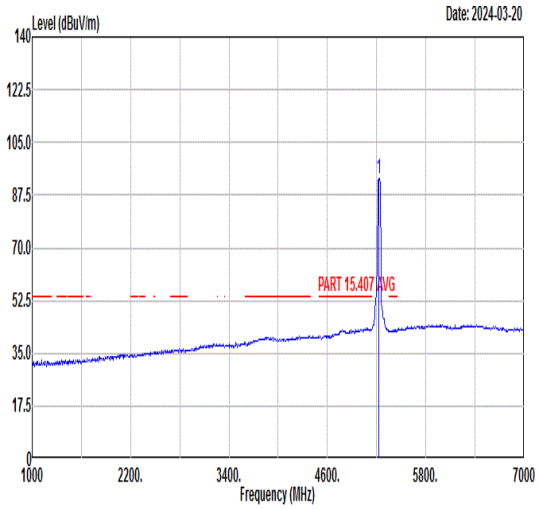
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5230.00	97.66	------	------	85.24	36.06	8.74	32.38	100	63	AVERAGE

Mode	8	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak		Blank
Avg		Blank

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5435.16	52.01	74.00	-21.99	38.49	35.94	9.67	32.09	100	63	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5430.56	43.38	54.00	-10.62	29.87	35.94	9.67	32.10	100	63	AVERAGE

Mode	8
	Band Edge - L
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz
ANT	22

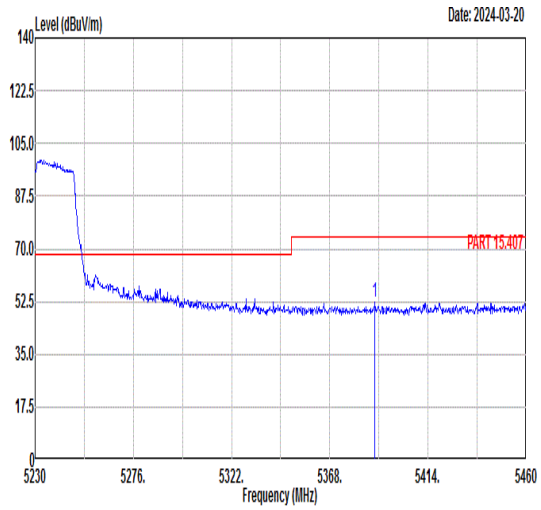
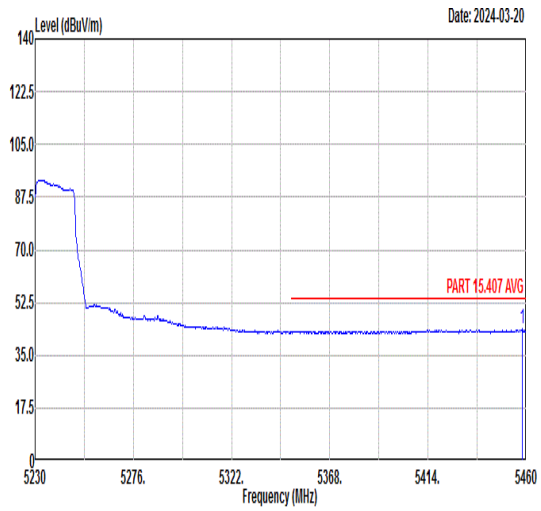
Pol.	Vertical	Fundamental
Peak		
Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5136.85	52.49	74.00	-21.51	40.37	36.12	8.51	32.51	100	226	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5230.00	99.32	------	------	86.93	36.07	8.71	32.39	100	226	PEAK

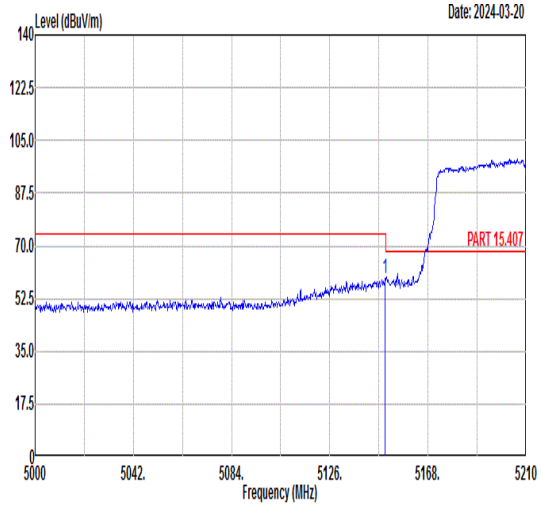
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5149.73	43.65	54.00	-10.35	31.49	36.11	8.54	32.49	100	226	AVERAGE

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5230.00	93.11	------	------	80.69	36.06	8.74	32.38	100	226	AVERAGE

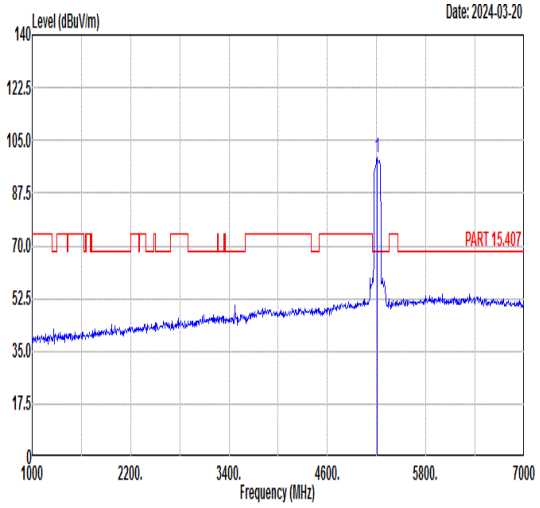
Mode	8	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11n HT40_CH46_5230MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5389.16 52.07 74.00 -21.93 38.69 35.97 9.57 32.16 100 226 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 5458.16 43.70 54.00 -10.30 30.14 35.93 9.69 32.06 100 226 AVERAGE	Blank

Mode	9	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

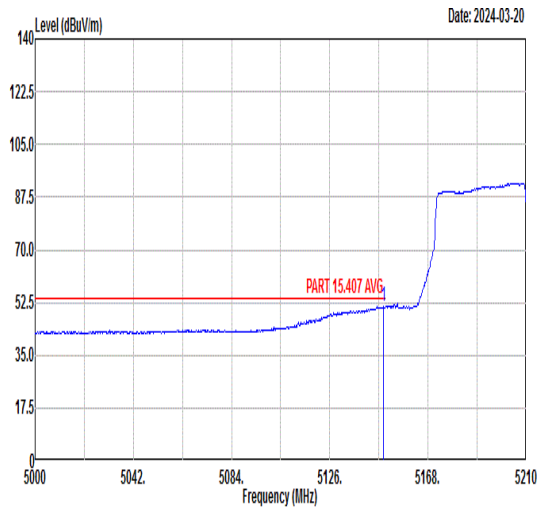


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5149.73	59.36	74.00	-14.64	47.20	36.11	8.54	32.49	100	56	PEAK

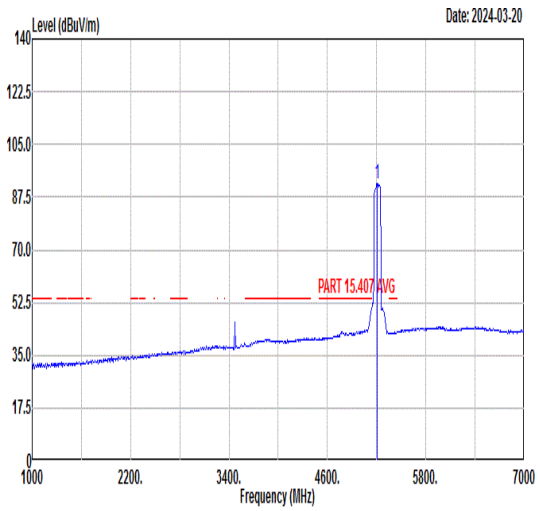


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5210.00	99.16	------	------	86.85	36.08	8.64	32.41	100	56	PEAK

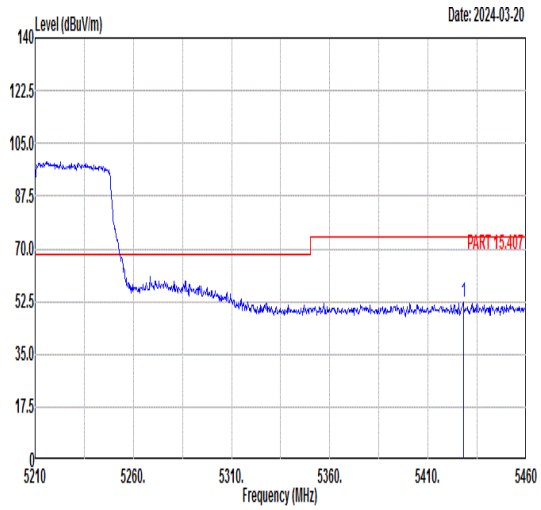
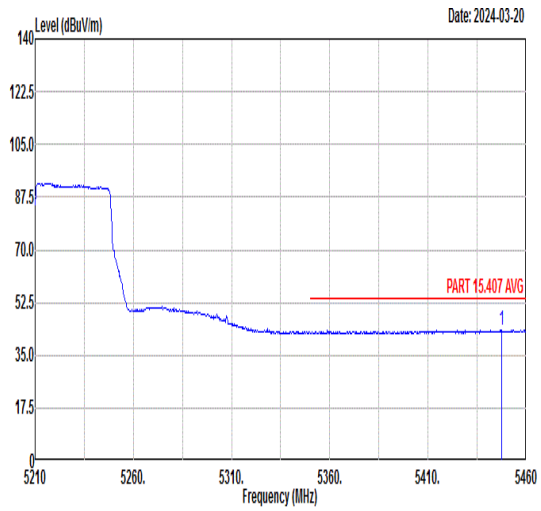
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5149.10	51.24	54.00	-2.76	39.09	36.11	8.53	32.49	100	56	AVERAGE



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5210.00	92.12	------	------	79.81	36.08	8.64	32.41	100	56	AVERAGE

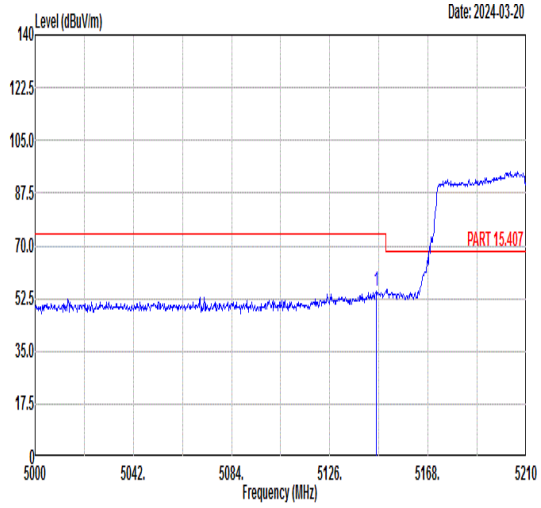
Mode	9	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak		Blank
Avg		Blank

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5428.00	52.30	74.00	-21.70	38.79	35.94	9.67	32.10	100	56	PEAK

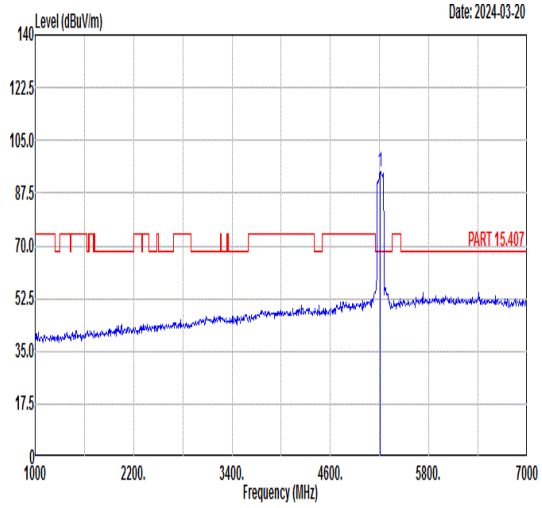
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5447.50	43.39	54.00	-10.61	29.85	35.93	9.68	32.07	100	56	AVERAGE

Mode	9	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

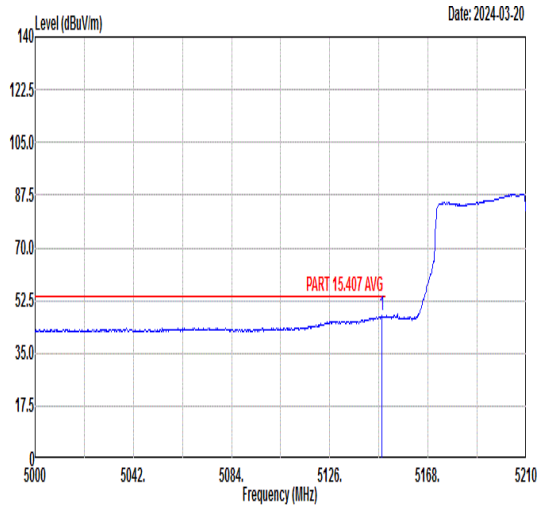


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5145.74	54.88	74.00	-19.12	42.74	36.11	8.53	32.50	100	205	PEAK

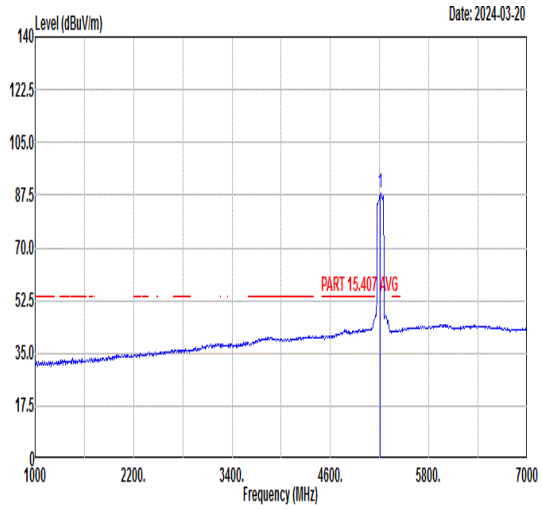


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5210.00	94.57	------	------	82.26	36.08	8.64	32.41	100	205	PEAK

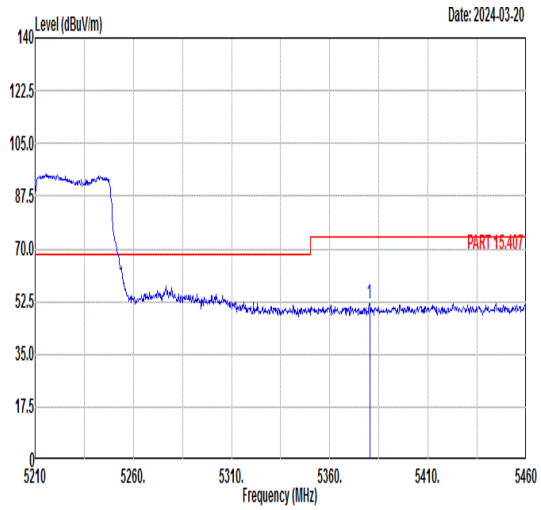
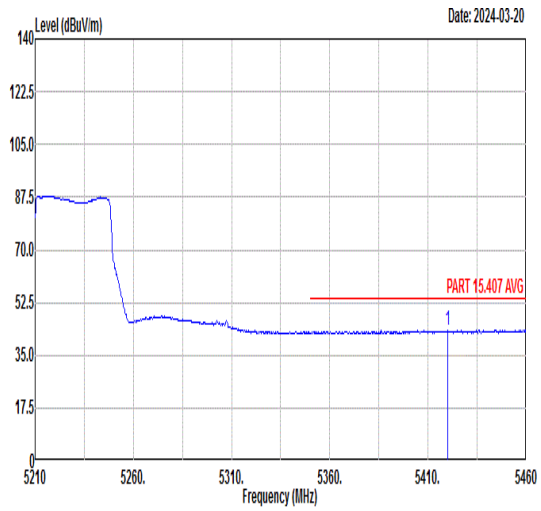
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5148.26	47.34	54.00	-6.66	35.19	36.11	8.53	32.49	100	205	AVERAGE

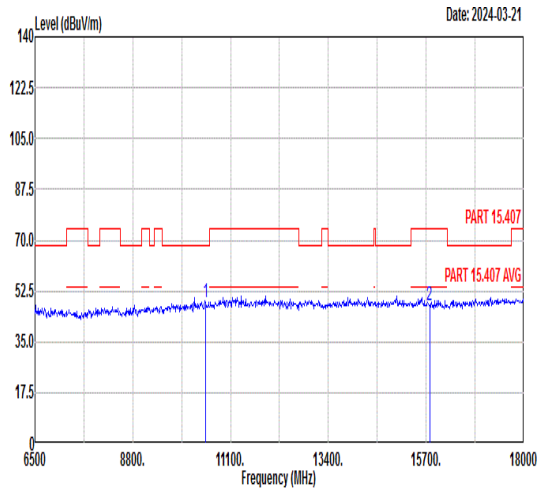
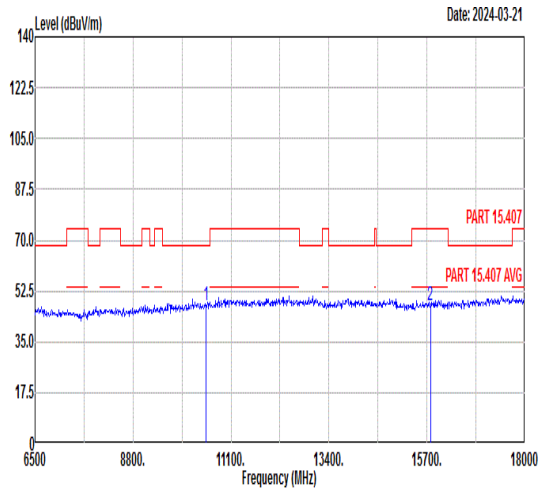


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5210.00	87.98	------	------	75.62	36.07	8.68	32.39	100	205	AVERAGE

Mode	9	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak		Blank
Avg		Blank

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5380.25	51.92	74.00	-22.08	38.60	35.97	9.52	32.17	100	205	PEAK

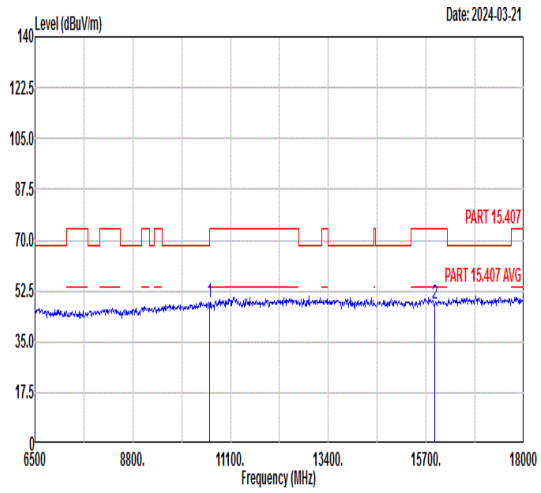
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5420.00	43.54	54.00	-10.46	30.03	35.95	9.67	32.11	100	205	AVERAGE

Mode	10	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 48.36 68.30 -19.94 60.97 38.81 12.18 63.60 --- --- Peak 2 15780.00 47.76 74.00 -26.24 56.22 40.92 14.69 64.07 --- --- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10520.00 47.47 68.30 -20.83 60.08 38.81 12.18 63.60 --- --- Peak 2 15780.00 47.74 74.00 -26.26 56.20 40.92 14.69 64.07 --- --- Peak

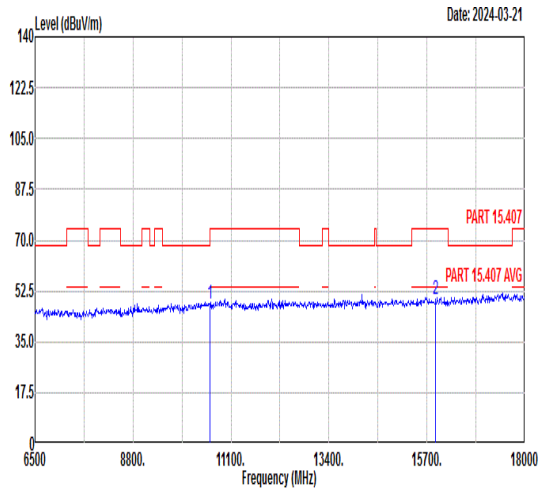
Mode	11	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

Avg



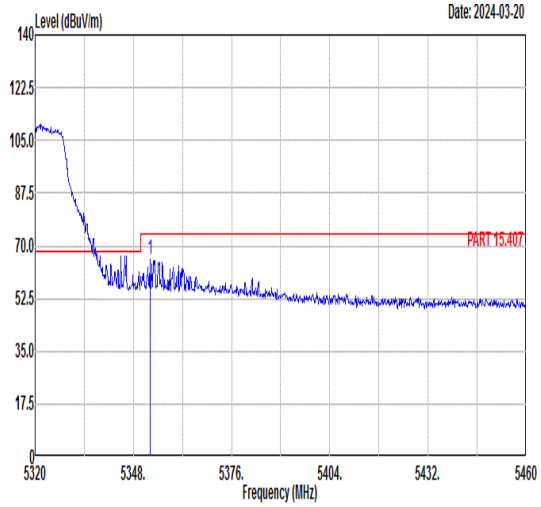
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10600.00	48.79	74.00	-25.21	61.29	38.84	12.23	63.57	---	---	Peak
2	15900.00	48.24	74.00	-25.76	56.58	41.02	14.75	64.11	---	---	Peak



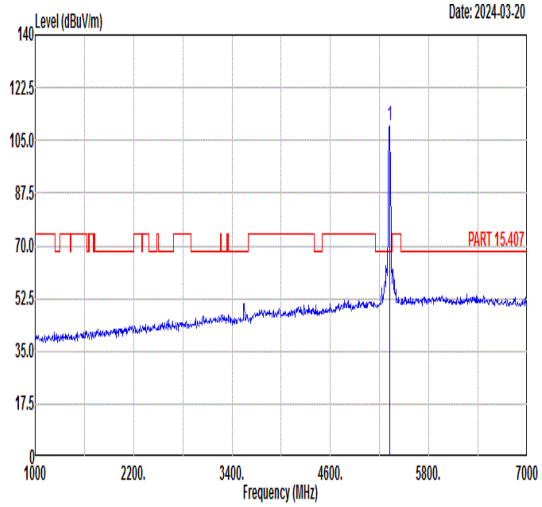
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10600.00	48.22	74.00	-25.78	60.72	38.84	12.23	63.57	---	---	Peak
2	15900.00	49.48	74.00	-24.52	57.82	41.02	14.75	64.11	---	---	Peak

Mode	12	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

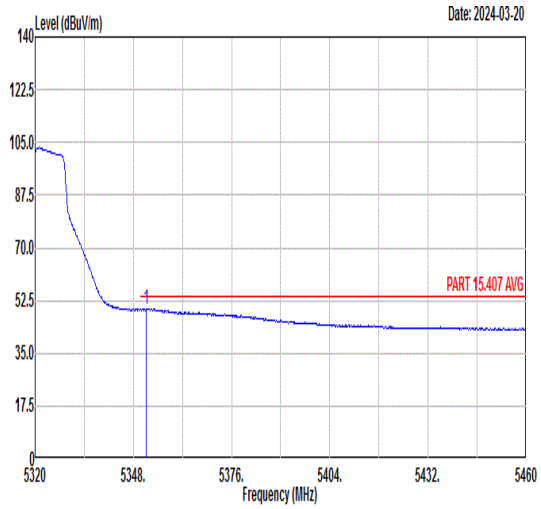


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5352.90	65.40	74.00	-8.60	52.24	35.99	9.38	32.21	100	296	PEAK

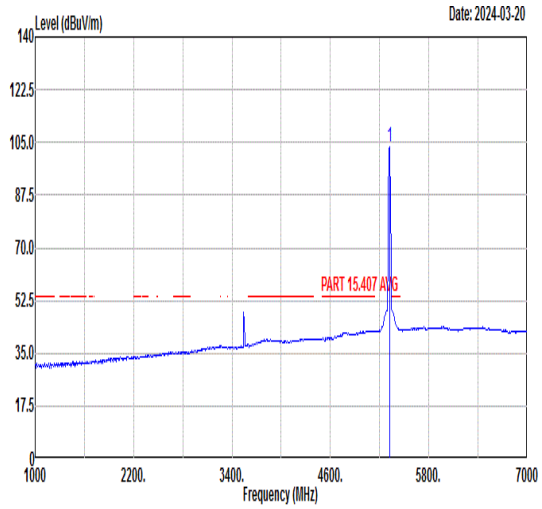


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	109.62	------	------	96.65	36.01	9.21	32.25	100	296	PEAK

Avg



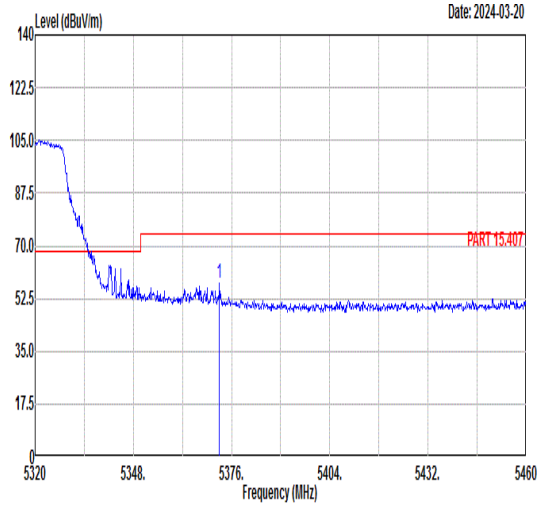
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5351.64	49.76	54.00	-4.24	36.61	35.99	9.37	32.21	100	296	AVERAGE



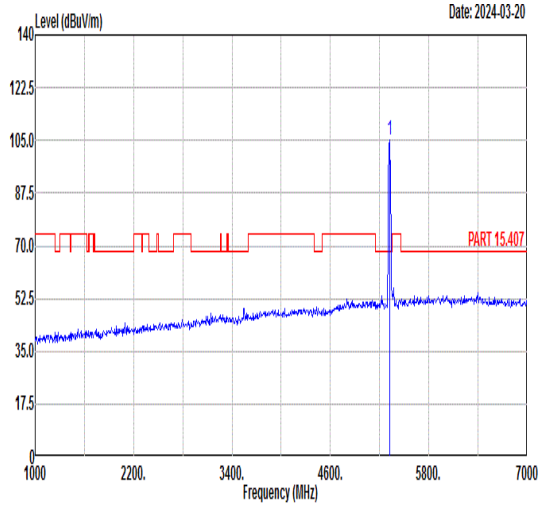
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	103.32	------	------	90.35	36.01	9.21	32.25	100	296	AVERAGE

Mode	12	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

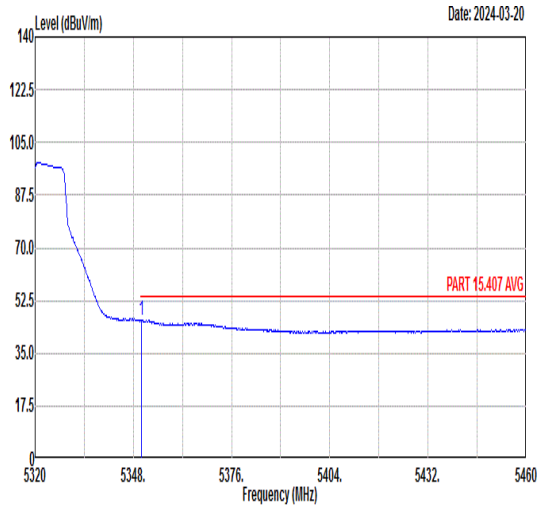


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5372.50	57.33	74.00	-16.67	44.05	35.98	9.48	32.18	400	268	PEAK

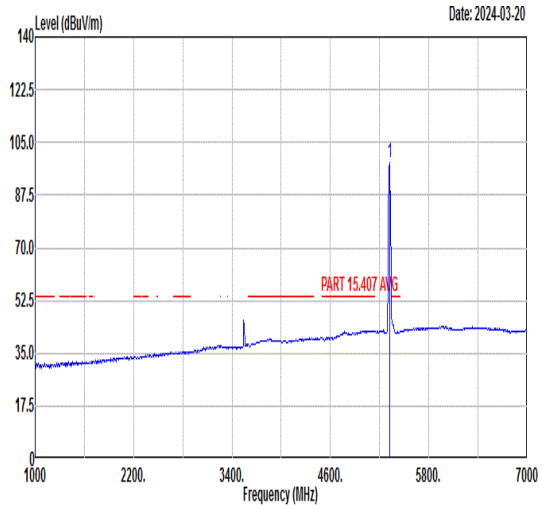


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	105.18	------	------	92.21	36.01	9.21	32.25	400	268	PEAK

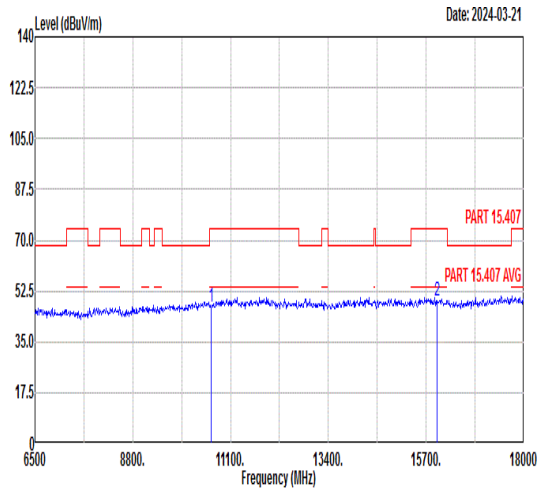
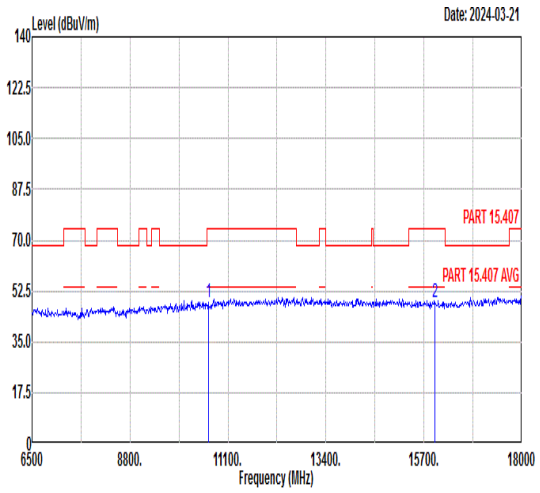
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5350.38	46.18	54.00	-7.82	33.03	35.99	9.37	32.21	400	268	AVERAGE



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	98.19	------	------	85.22	36.01	9.21	32.25	400	268	AVERAGE

Mode	12	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

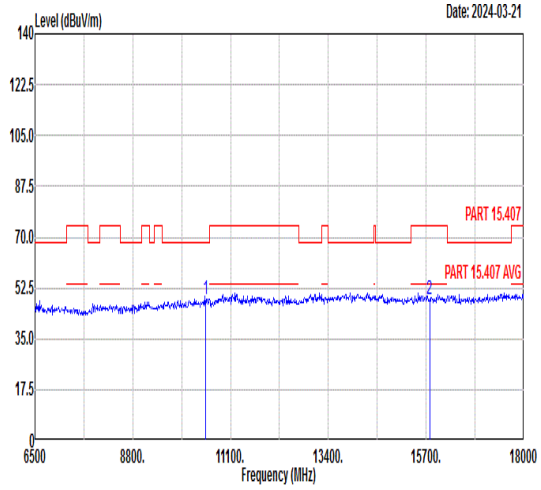
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10640.00	47.05	74.00	-26.95	59.48	38.86	12.26	63.55	---	---	Peak
2	15960.00	49.17	74.00	-24.83	57.46	41.07	14.77	64.13	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10640.00	48.40	74.00	-25.60	60.83	38.86	12.26	63.55	---	---	Peak
2	15960.00	48.58	74.00	-25.42	56.87	41.07	14.77	64.13	---	---	Peak

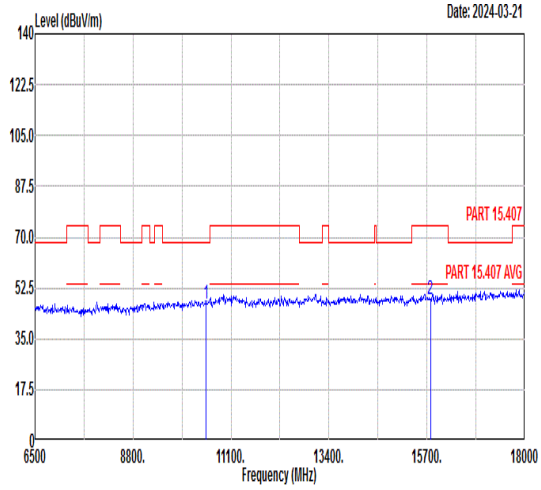
Mode	13	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH52_5260MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10520.00	48.81	68.30	-19.49	61.42	38.81	12.18	63.60	---	---	Peak
2	15780.00	48.75	74.00	-25.25	57.21	40.92	14.69	64.07	---	---	Peak

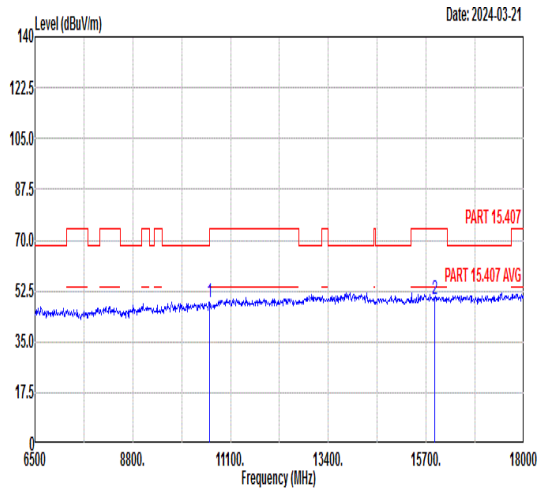


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10520.00	46.95	68.30	-21.35	59.56	38.81	12.18	63.60	---	---	Peak
2	15780.00	48.84	74.00	-25.16	57.30	40.92	14.69	64.07	---	---	Peak

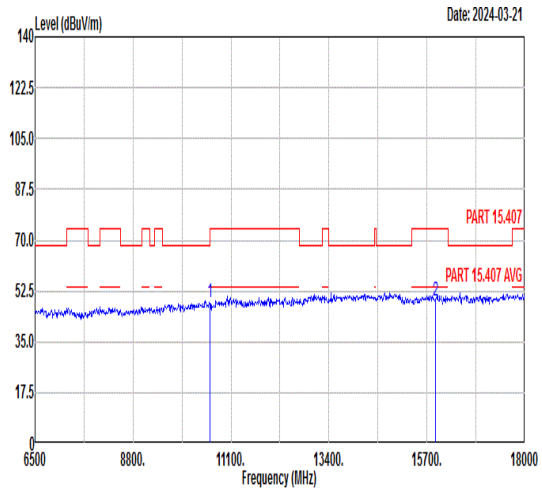
Mode	14	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH60_5300MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

Avg



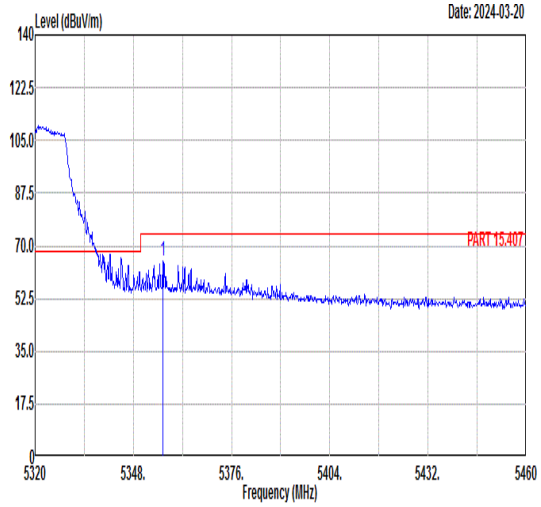
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10600.00	48.41	74.00	-25.59	60.91	38.84	12.23	63.57	---	---	Peak
2	15900.00	49.40	74.00	-24.60	57.74	41.02	14.75	64.11	---	---	Peak



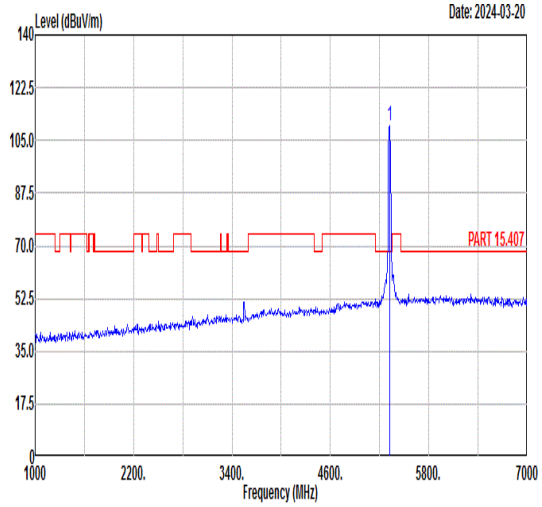
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10600.00	48.44	74.00	-25.56	60.94	38.84	12.23	63.57	---	---	Peak
2	15900.00	49.28	74.00	-24.72	57.62	41.02	14.75	64.11	---	---	Peak

Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

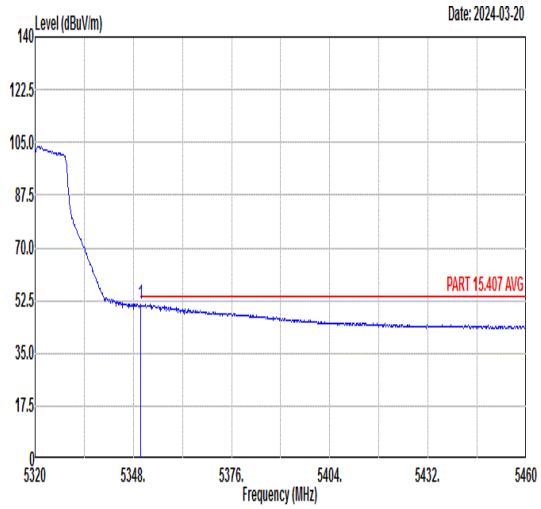


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5356.40	64.84	74.00	-9.16	51.65	35.99	9.40	32.20	100	295	PEAK

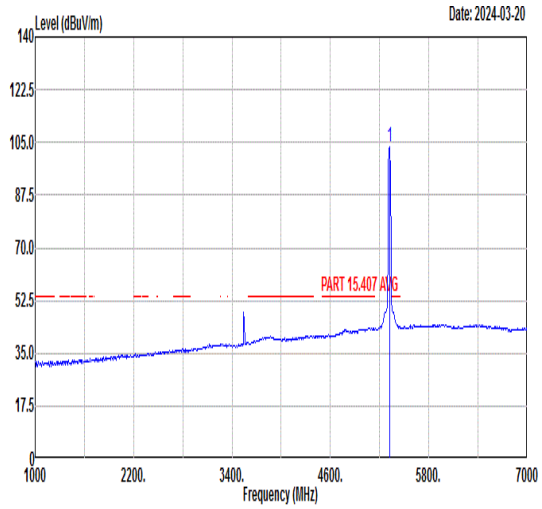


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	109.95	------	------	96.98	36.01	9.21	32.25	100	295	PEAK

Avg



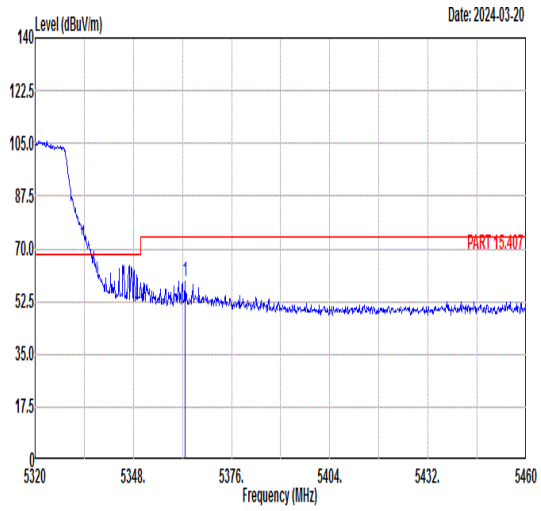
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5350.10	51.17	54.00	-2.83	38.02	35.99	9.37	32.21	100	295	AVERAGE



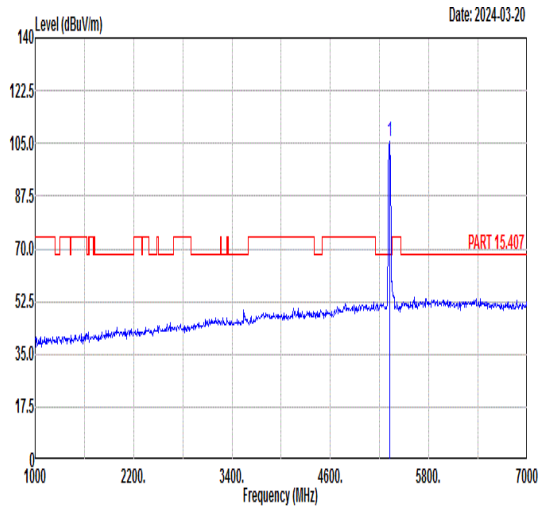
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	103.35	------	------	90.38	36.01	9.21	32.25	100	295	AVERAGE

Mode	15	
	Band Edge	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

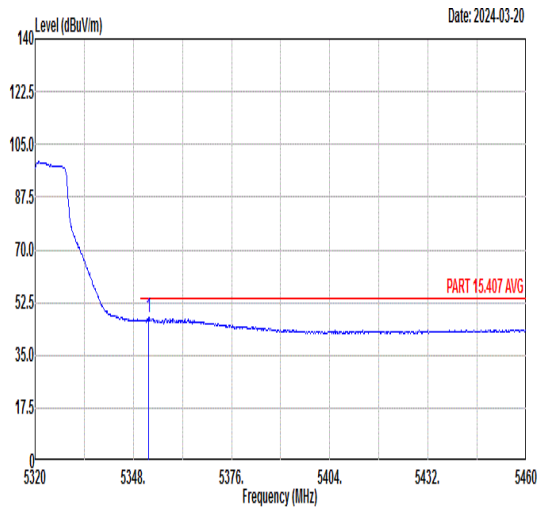


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5362.84	59.33	74.00	-14.67	46.11	35.98	9.43	32.19	400	266	PEAK

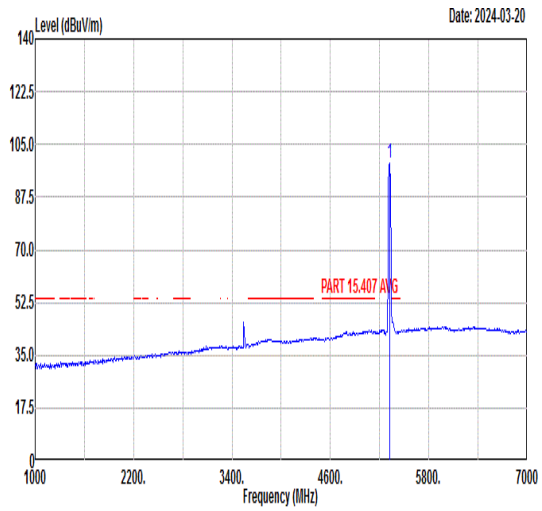


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	105.52	------	------	92.55	36.01	9.21	32.25	400	266	PEAK

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	5352.34	47.48	54.00	-6.52	34.32	35.99	9.38	32.21	400	266	AVERAGE

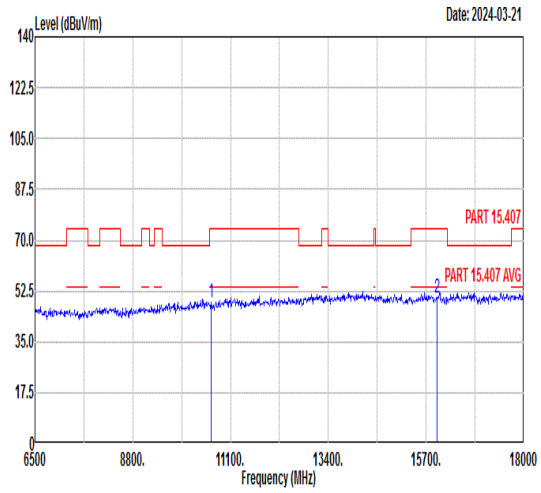


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5320.00	98.84	------	------	85.87	36.01	9.21	32.25	400	266	AVERAGE

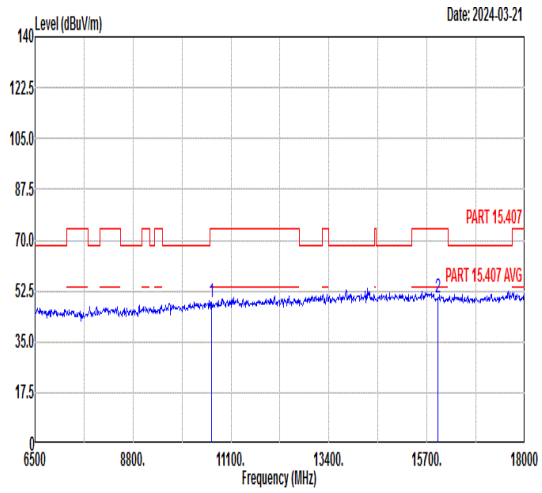
Mode	15	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11n HT20_CH64_5320MHz	
ANT	22	
Pol.	Horizontal	Vertical

Peak

Avg



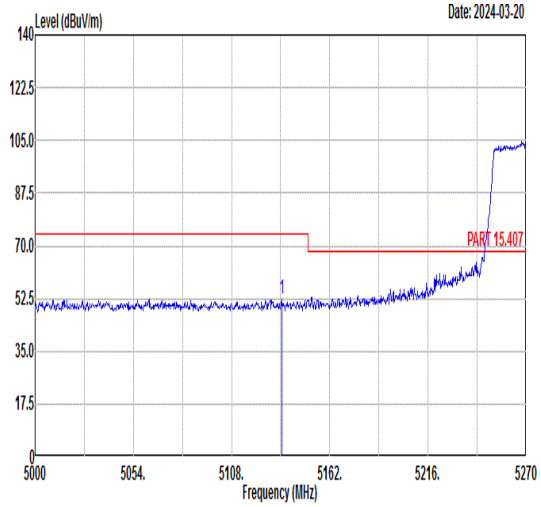
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10640.00	48.59	74.00	-25.41	61.02	38.86	12.26	63.55	---	---	Peak
2	15960.00	49.93	74.00	-24.07	58.22	41.07	14.77	64.13	---	---	Peak



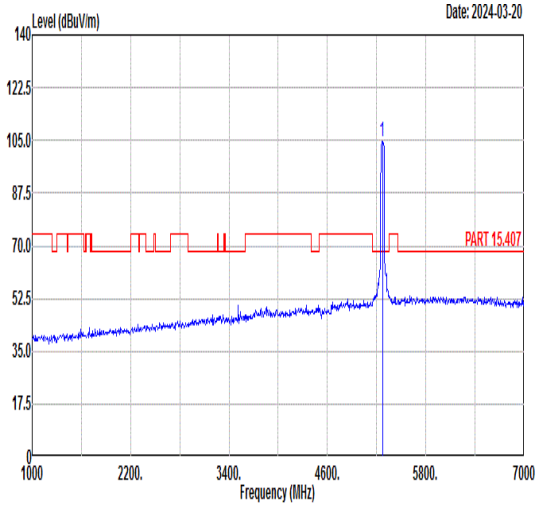
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10640.00	48.73	74.00	-25.27	61.16	38.86	12.26	63.55	---	---	Peak
2	15960.00	50.26	74.00	-23.74	58.55	41.07	14.77	64.13	---	---	Peak

Mode	16	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

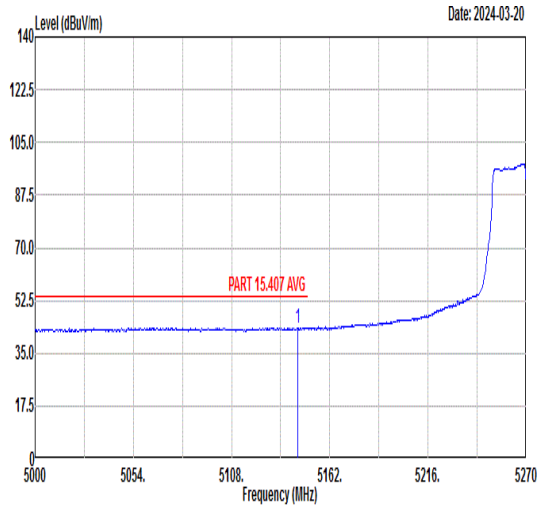


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5135.54	52.26	74.00	-21.74	40.14	36.12	8.51	32.51	100	307	PEAK

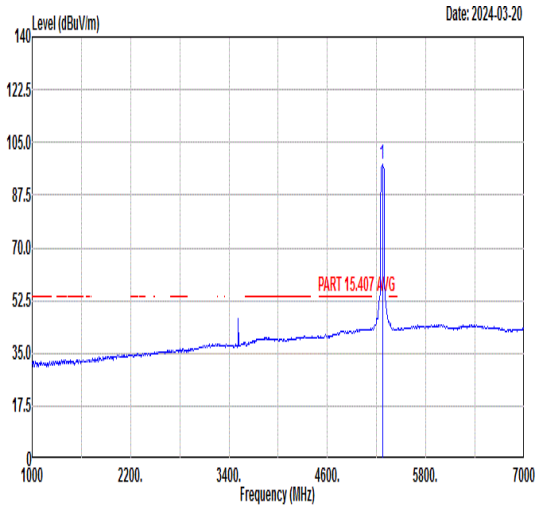


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5270.00	104.62	------	------	91.98	36.04	8.93	32.33	100	307	PEAK

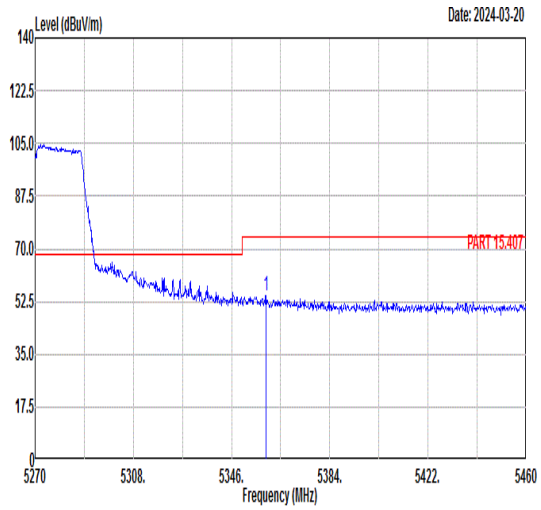
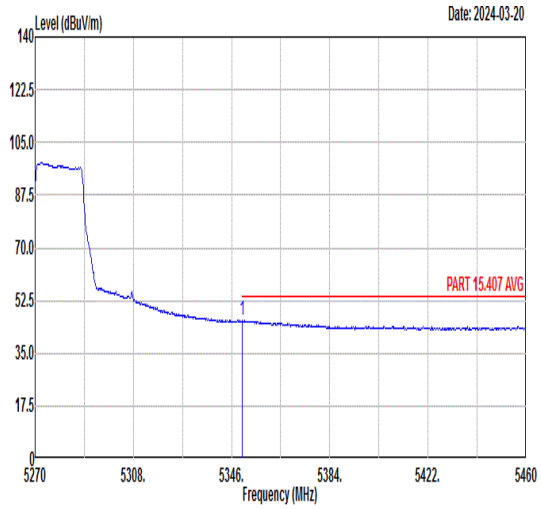
Avg



	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	5144.45	43.56	54.00	-10.44	31.42	36.11	8.53	32.50	100	307	AVERAGE

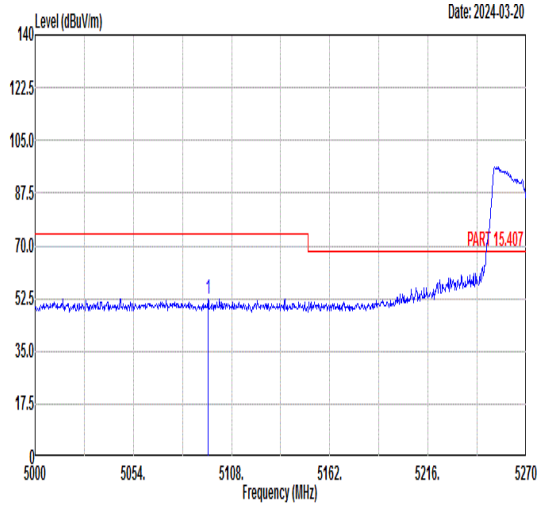


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5270.00	97.85	------	------	85.17	36.04	8.96	32.32	100	307	AVERAGE

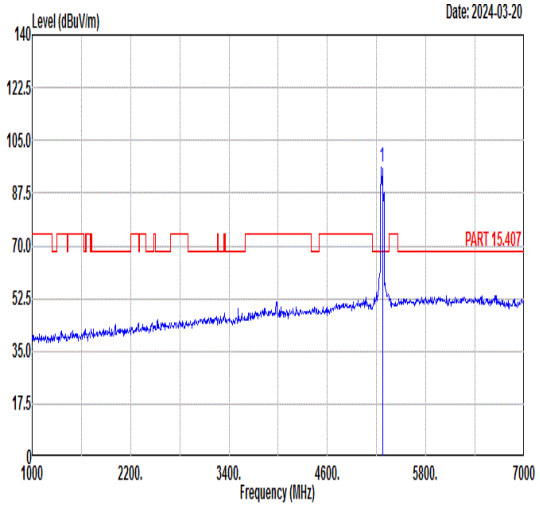
Mode	16	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5359.30 54.55 74.00 -19.45 41.36 35.98 9.41 32.20 100 307 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 5350.18 45.72 54.00 -8.28 32.57 35.99 9.37 32.21 100 307 AVERAGE	Blank

Mode	16	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

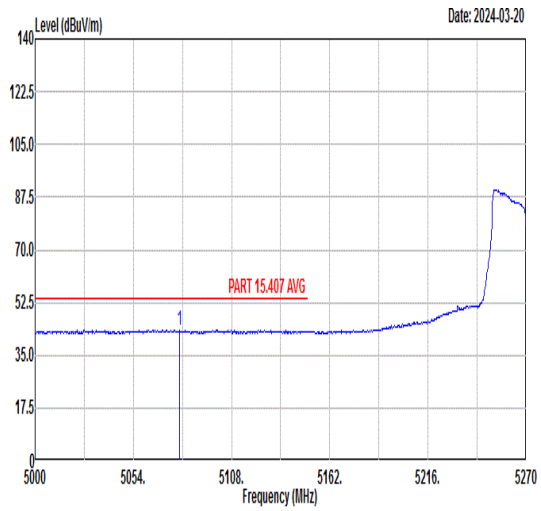


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5095.04	52.51	74.00	-21.49	40.51	36.14	8.43	32.57	400	257	PEAK

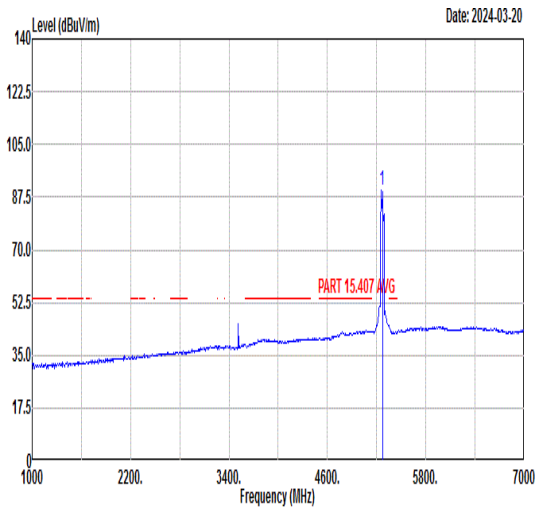


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5270.00	96.12	------	------	83.54	36.05	8.87	32.34	400	257	PEAK

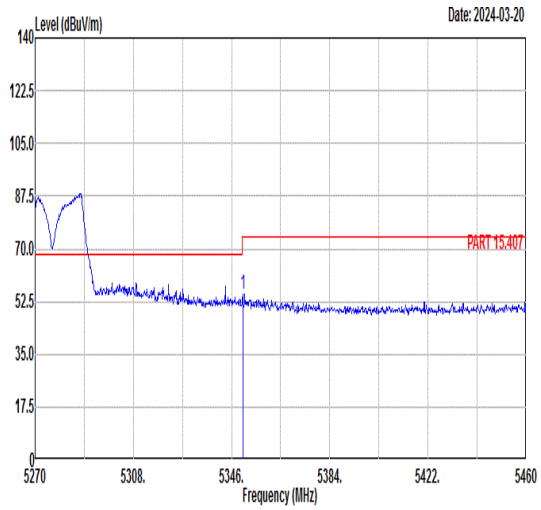
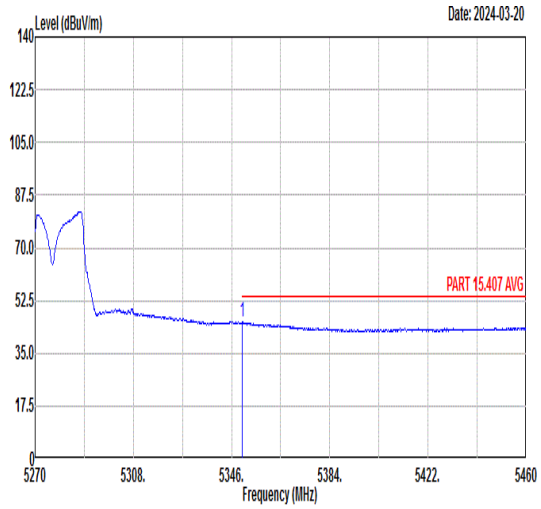
Avg



	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	5079.38	43.47	54.00	-10.53	31.50	36.15	8.41	32.59	400	257	AVERAGE

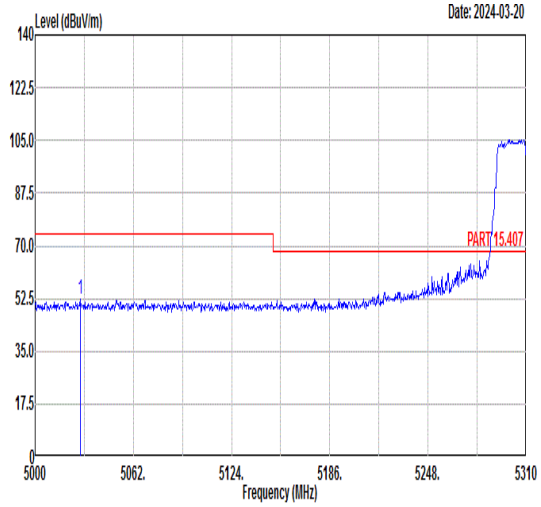


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5270.00	89.92	------	------	77.34	36.05	8.87	32.34	400	257	AVERAGE

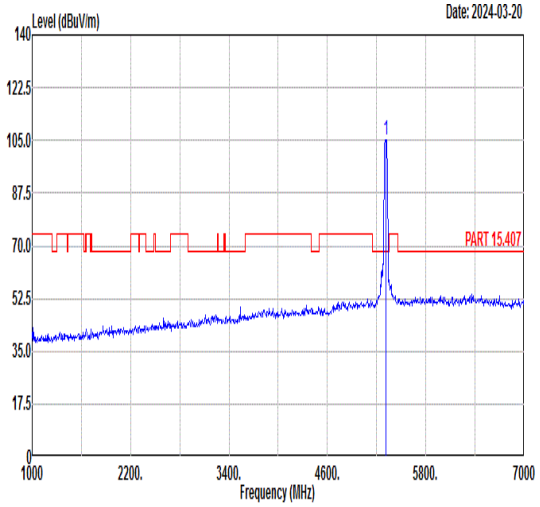
Mode	16	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH54_5270MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5350.37 54.81 74.00 -19.19 41.66 35.99 9.37 32.21 400 257 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 5350.18 45.25 54.00 -8.75 32.10 35.99 9.37 32.21 400 257 AVERAGE	Blank

Mode	17	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

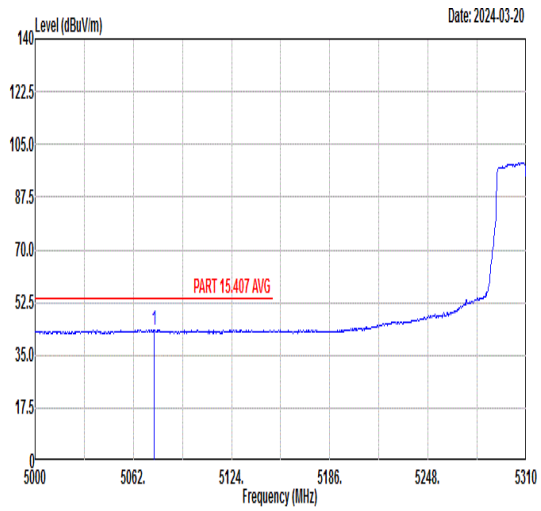


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5028.52	52.35	74.00	-21.65	40.52	36.18	8.31	32.66	100	303	PEAK

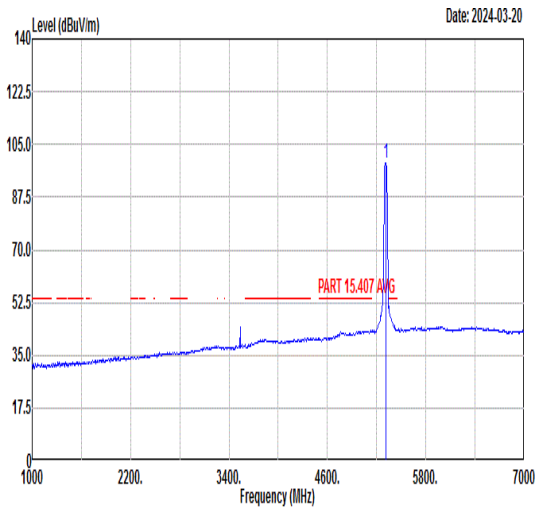


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5310.00	105.25	------	------	92.32	36.01	9.18	32.26	100	303	PEAK

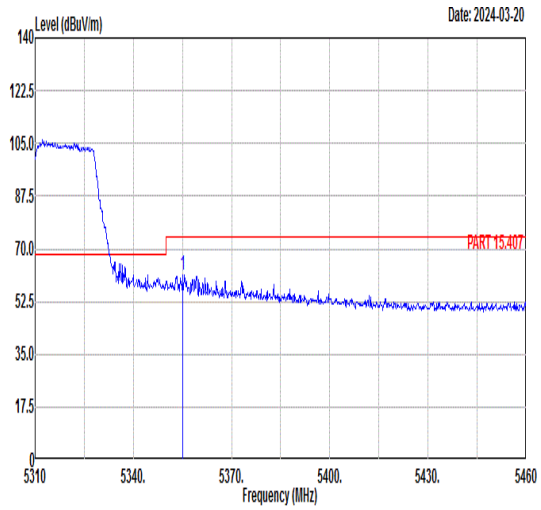
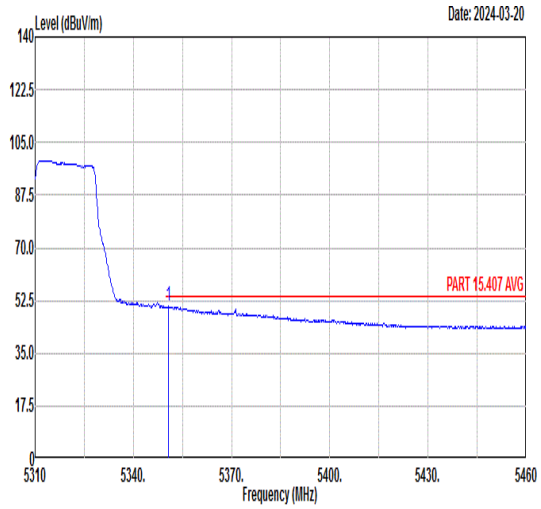
Avg



	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	5075.02	43.40	54.00	-10.60	31.44	36.15	8.40	32.59	100	303	AVERAGE

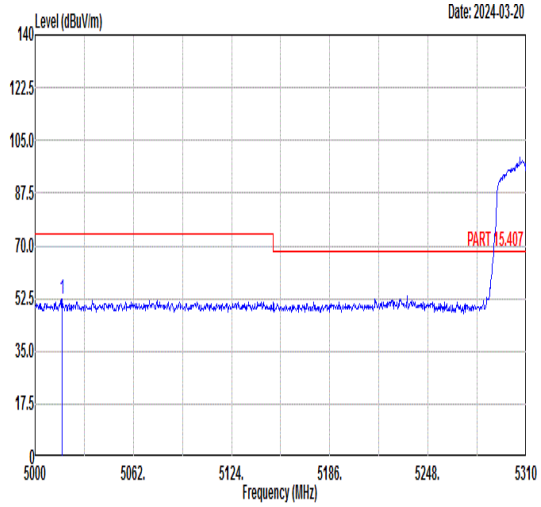


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5310.00	98.81	------	------	85.88	36.01	9.18	32.26	100	303	AVERAGE

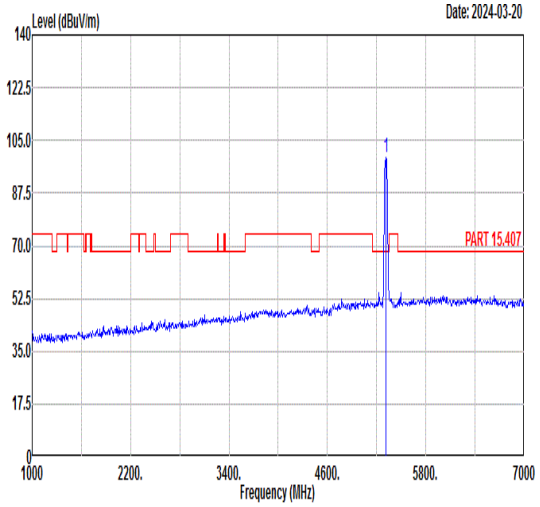
Mode	17	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5355.15 61.34 74.00 -12.66 48.16 35.99 9.39 32.20 100 303 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 5350.80 50.62 54.00 -3.38 37.47 35.99 9.37 32.21 100 303 AVERAGE	Blank

Mode	17	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

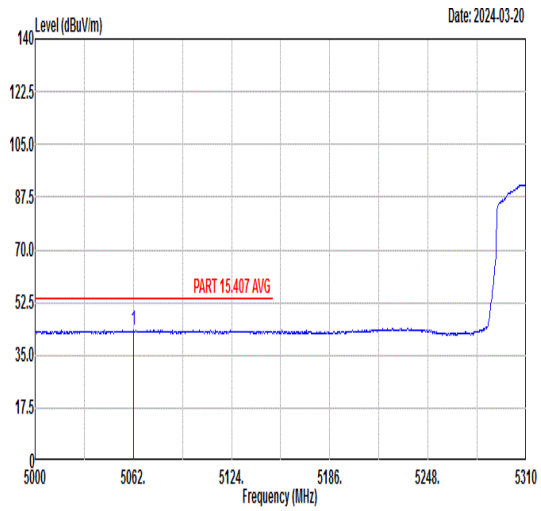


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5017.05	52.15	74.00	-21.85	40.35	36.19	8.29	32.68	400	268	PEAK

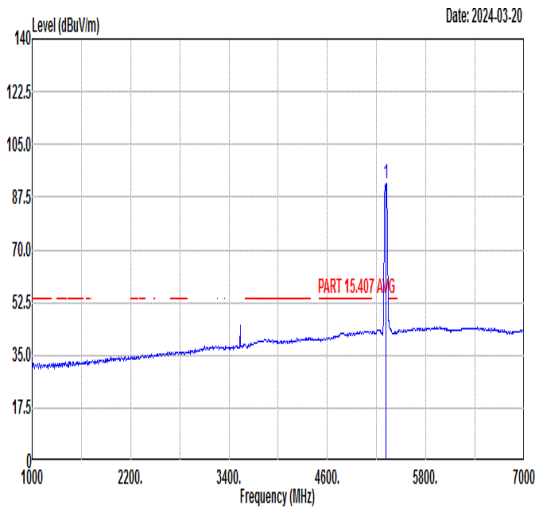


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5310.00	99.16	------	------	86.23	36.01	9.18	32.26	400	268	PEAK

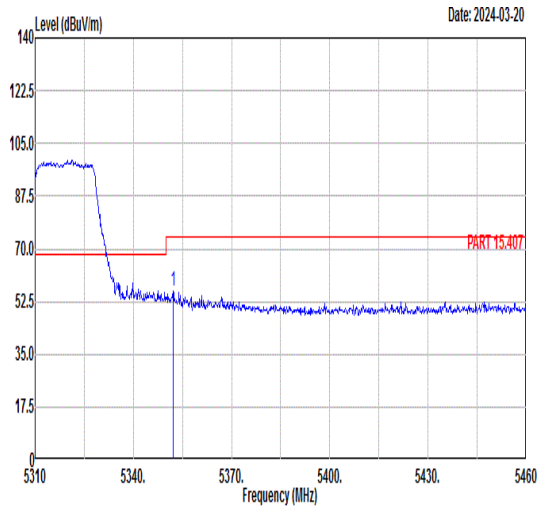
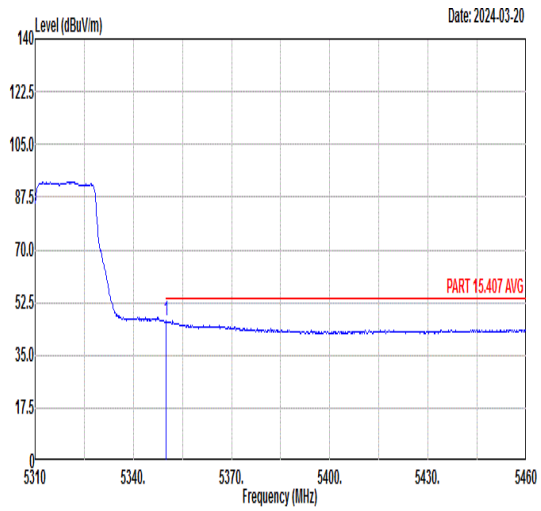
Avg



	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	5062.00	43.27	54.00	-10.73	31.35	36.16	8.37	32.61	400	268	AVERAGE

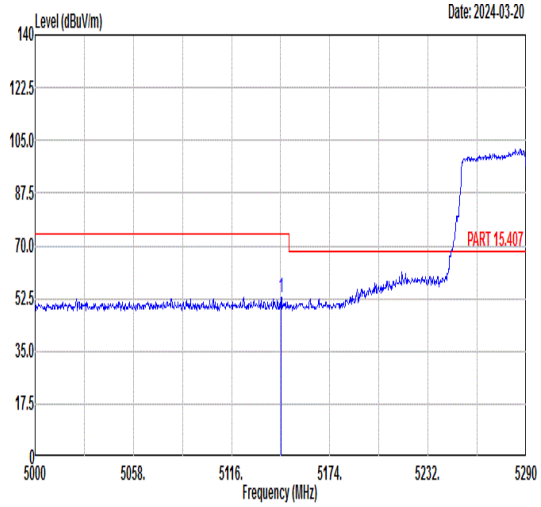


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5310.00	92.04	------	------	79.11	36.01	9.18	32.26	400	268	AVERAGE

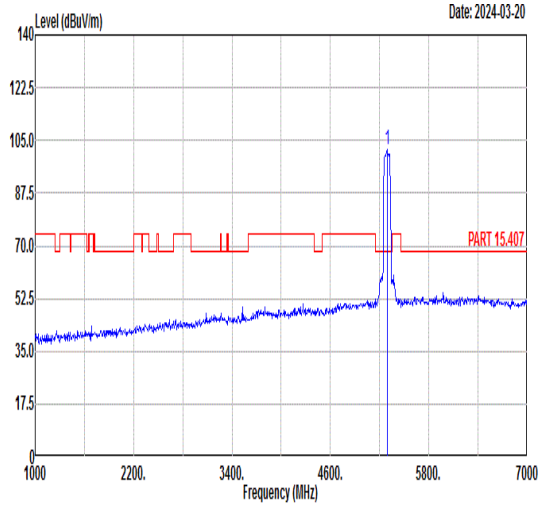
Mode	17	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5352.15 55.81 74.00 -18.19 42.65 35.99 9.38 32.21 400 268 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 5350.05 46.37 54.00 -7.63 33.22 35.99 9.37 32.21 400 268 AVERAGE	Blank

Mode	18	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

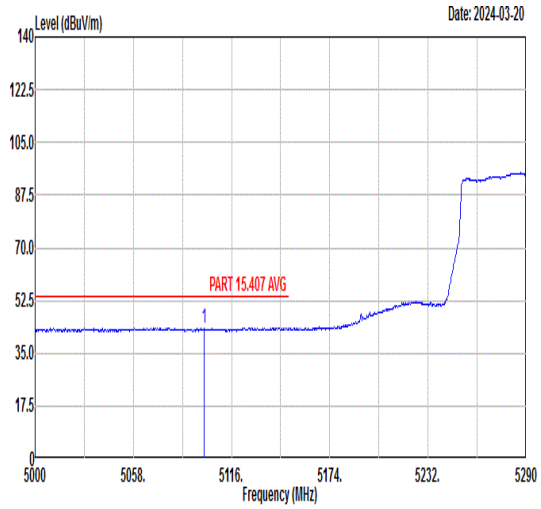


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5145.29	53.09	74.00	-20.91	40.95	36.11	8.53	32.50	100	304	PEAK

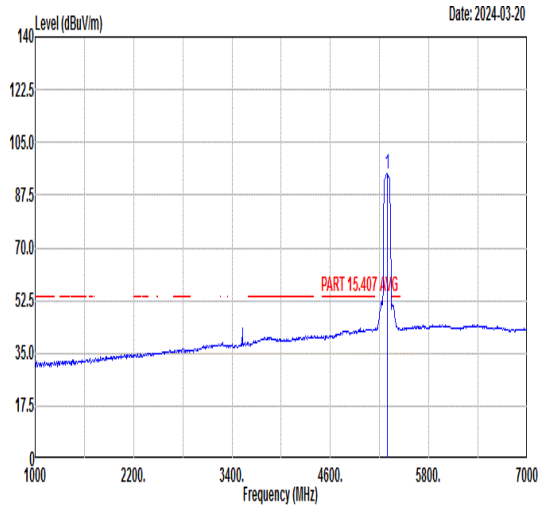


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5290.00	101.87	------	------	89.08	36.03	9.05	32.29	100	304	PEAK

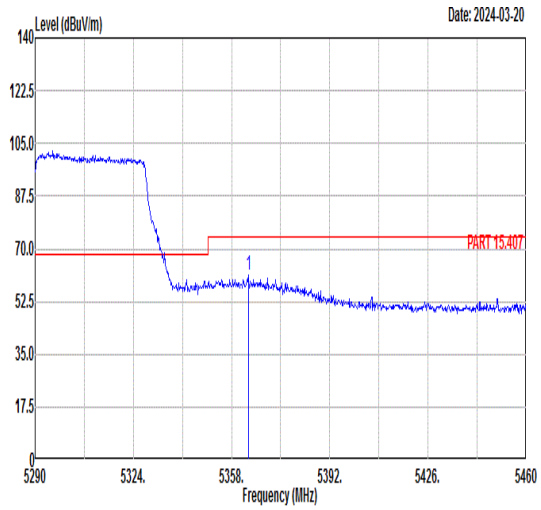
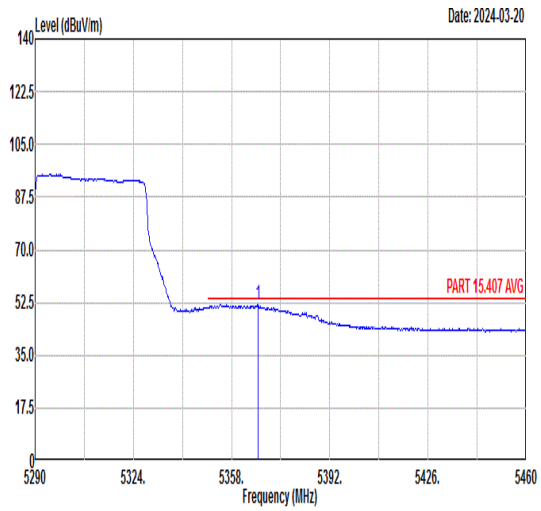
Avg



	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	5099.76	43.55	54.00	-10.45	31.53	36.14	8.44	32.56	100	304	AVERAGE

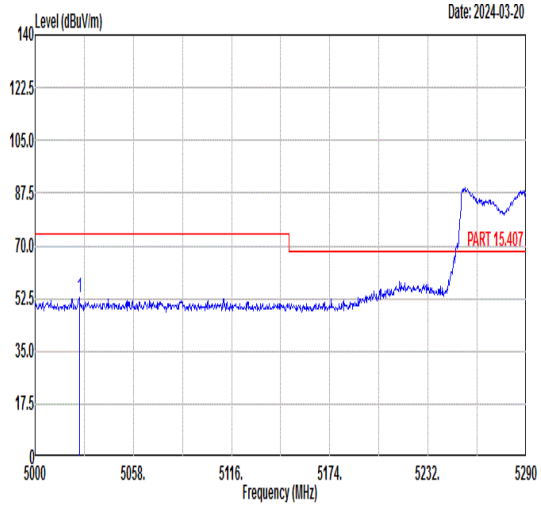


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5290.00	94.73	------	------	81.98	36.03	9.02	32.30	100	304	AVERAGE

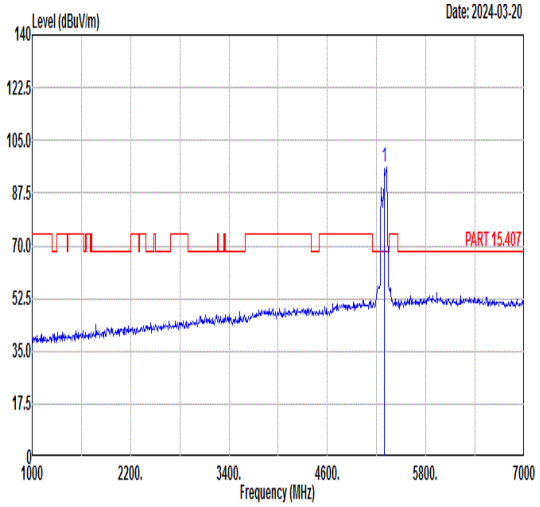
Mode	18	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5363.78 61.09 74.00 -12.91 47.86 35.98 9.44 32.19 100 304 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 5367.18 51.86 54.00 -2.14 38.62 35.98 9.45 32.19 100 304 AVERAGE	Blank

Mode	18	
	Band Edge - L	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

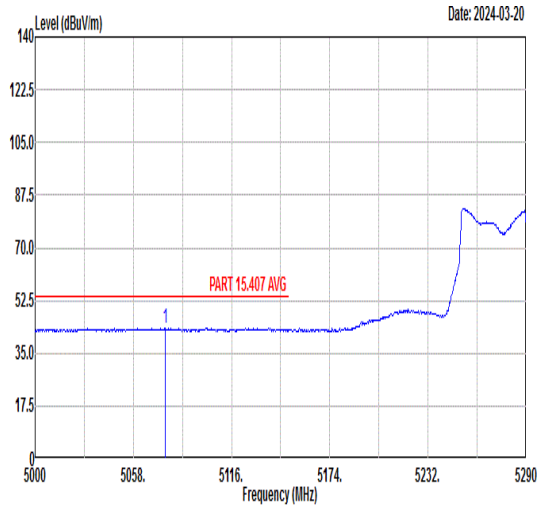


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5026.10	52.65	74.00	-21.35	40.82	36.18	8.31	32.66	400	266	PEAK

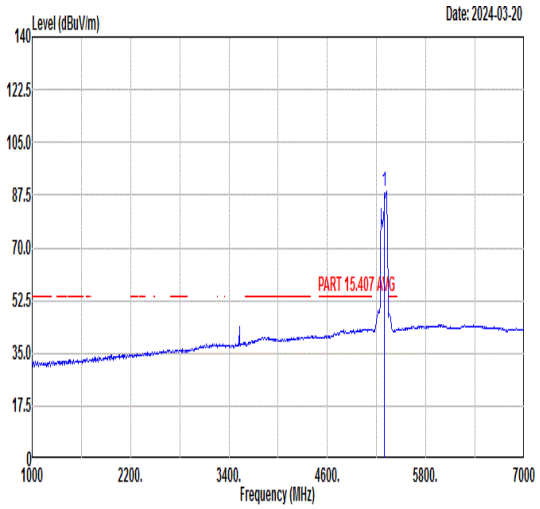


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5290.00	96.18	------	------	83.21	36.01	9.21	32.25	400	266	PEAK

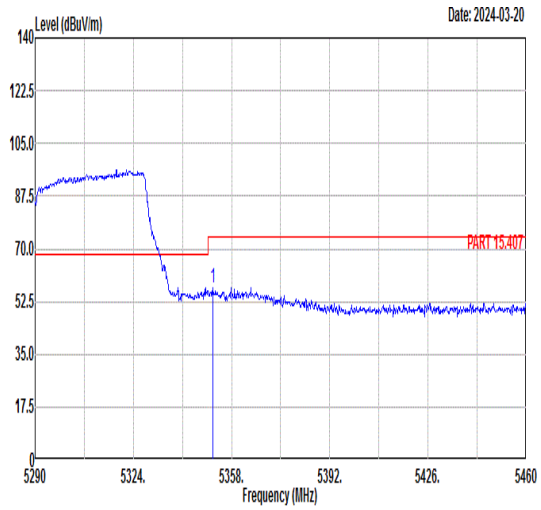
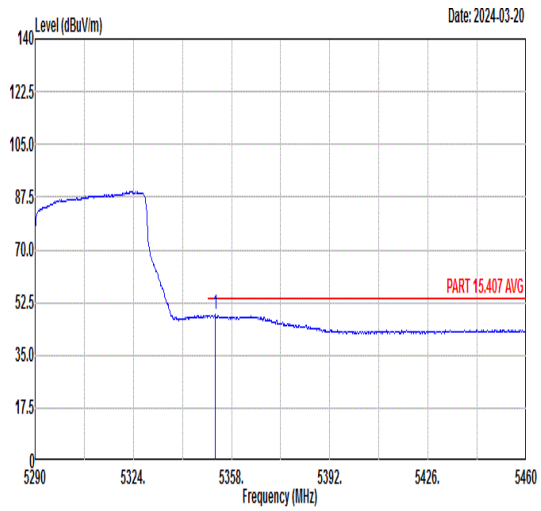
Avg

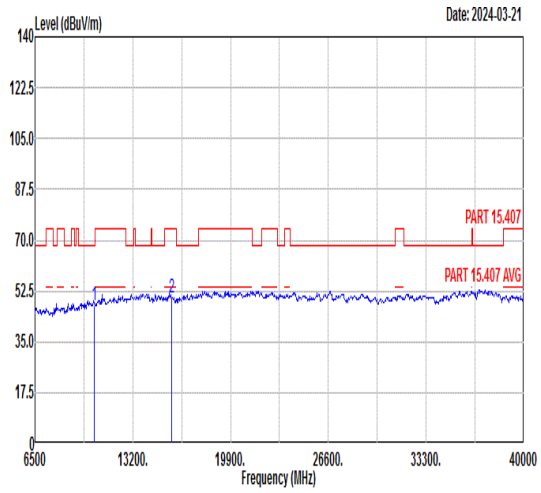
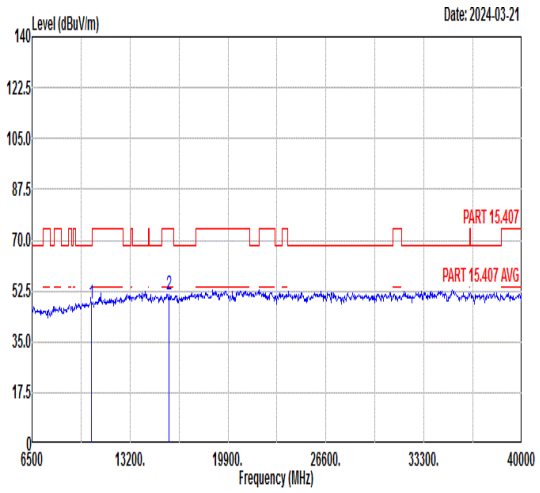


	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5076.85	43.42	54.00	-10.58	31.46	36.15	8.40	32.59	400	266	AVERAGE



	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	5290.00	88.73	------	------	75.73	36.00	9.24	32.24	400	266	AVERAGE

Mode	18	
	Band Edge - R	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
ANT	22	
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 5351.54 57.29 74.00 -16.71 44.14 35.99 9.37 32.21 400 266 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 5352.22 48.37 54.00 -5.63 35.21 35.99 9.38 32.21 400 266 AVERAGE	Blank

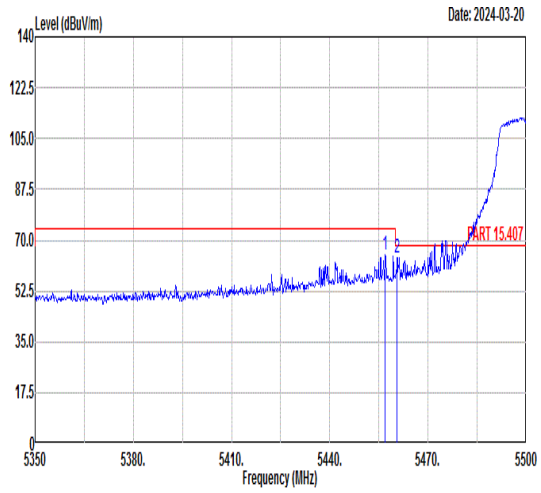
Mode	18	
	Harmonic	
	U-NII-2A_5.25-5.35_802.11ac VHT80_CH58_5290MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10580.00	47.75	68.30	-20.55	60.28	38.83	12.22	63.58	---	---	Peak
2	15870.00	50.45	74.00	-23.55	58.82	41.00	14.73	64.10	---	---	Peak

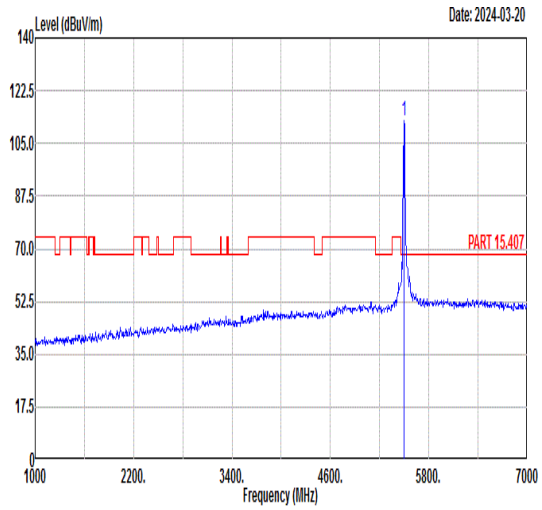
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	10580.00	48.23	68.30	-20.07	60.76	38.83	12.22	63.58	---	---	Peak
2	15870.00	51.24	74.00	-22.76	59.61	41.00	14.73	64.10	---	---	Peak

Mode	19	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

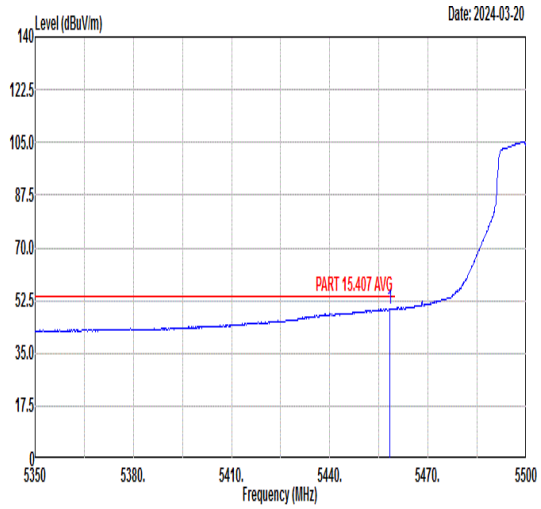


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5456.95	64.80	74.00	-9.20	51.24	35.93	9.69	32.06	100	297	PEAK
2	5460.55	64.15	68.30	-4.15	50.60	35.92	9.69	32.06	100	297	PEAK

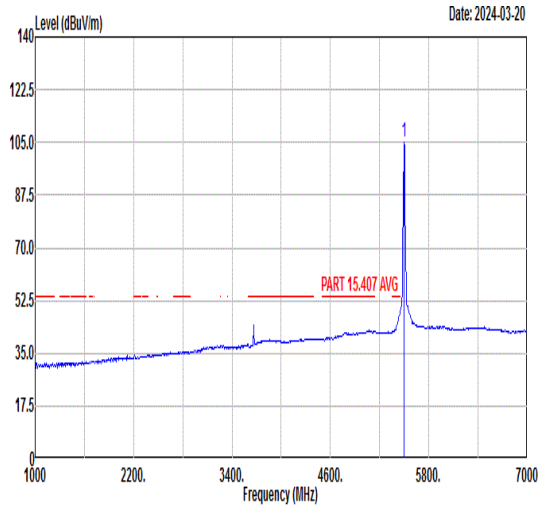


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	112.43	------	------	98.82	35.90	9.71	32.00	100	297	PEAK

Avg



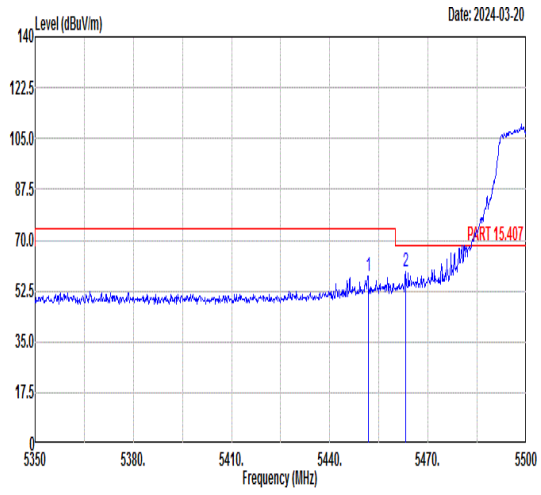
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5458.30	49.75	54.00	-4.25	36.19	35.93	9.69	32.06	100	297	AVERAGE



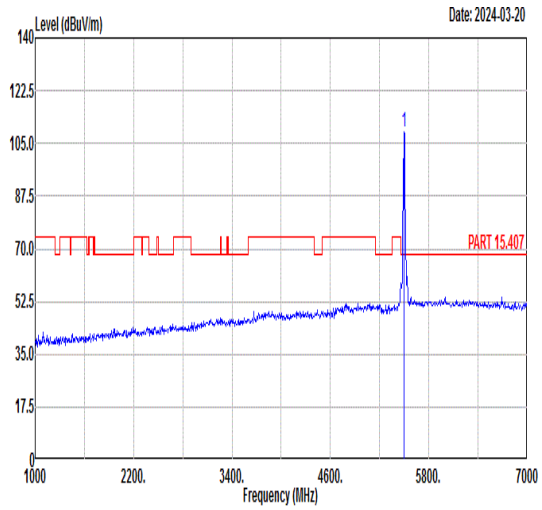
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	105.12	------	------	91.51	35.90	9.71	32.00	100	297	AVERAGE

Mode	19	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

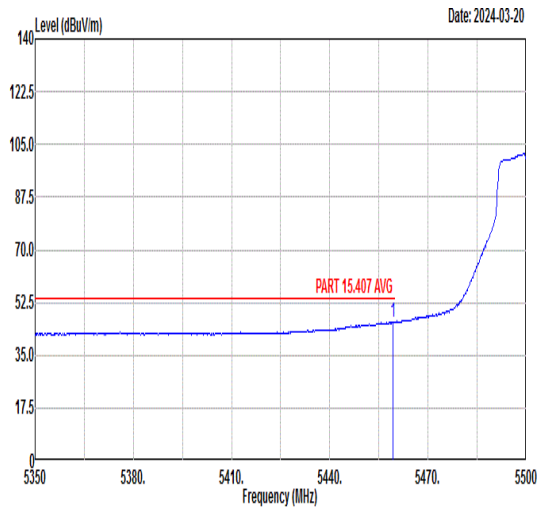


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5451.70	57.66	74.00	-16.34	44.12	35.93	9.68	32.07	394	261	PEAK
2	5463.10	59.14	68.30	-9.16	45.58	35.92	9.69	32.05	394	261	PEAK

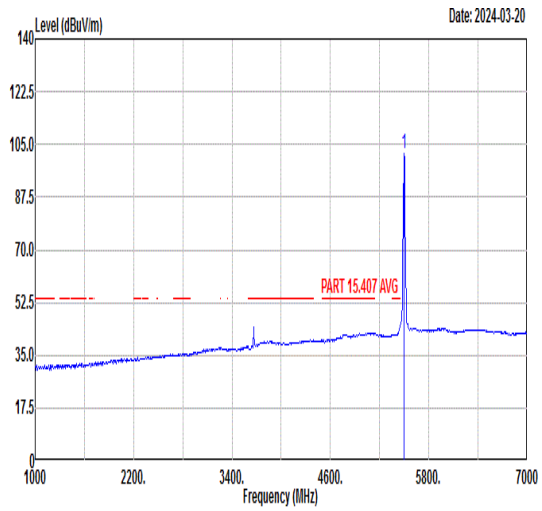


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	108.99	------	------	95.38	35.90	9.71	32.00	394	261	PEAK

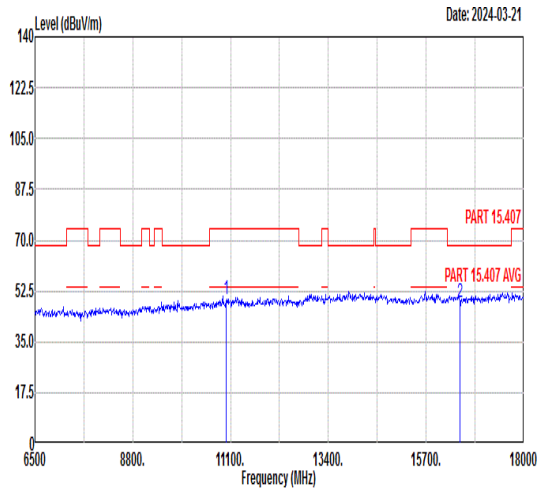
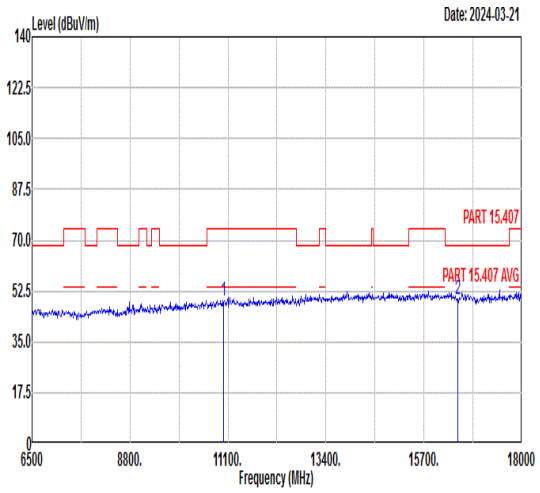
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5459.20	46.22	54.00	-7.78	32.67	35.92	9.69	32.06	394	261	AVERAGE

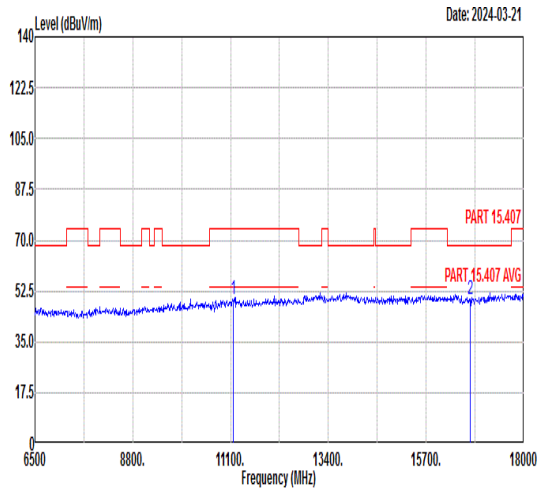
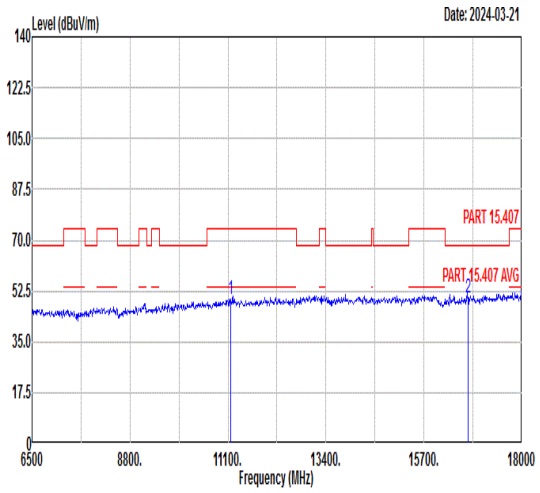


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	101.80	------	------	88.19	35.90	9.71	32.00	394	261	AVERAGE

Mode	19	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

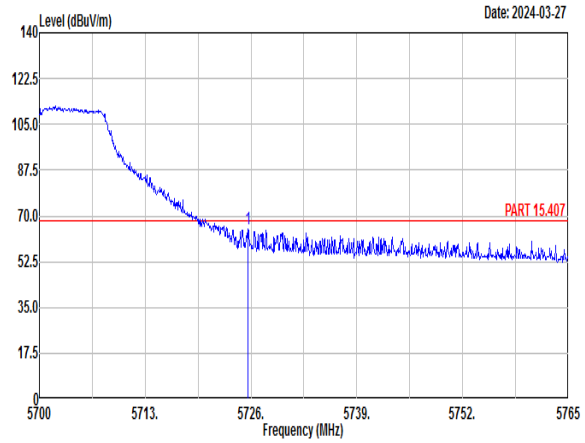
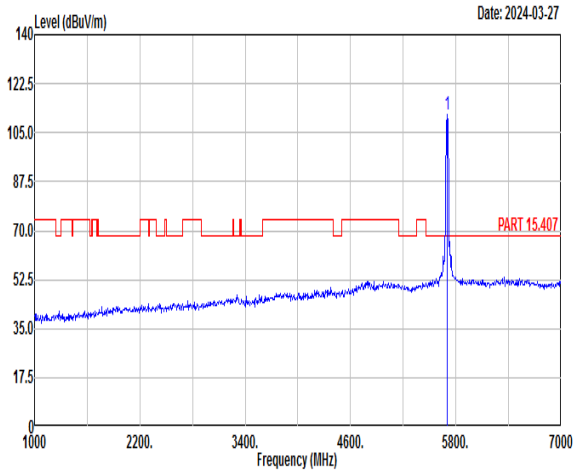
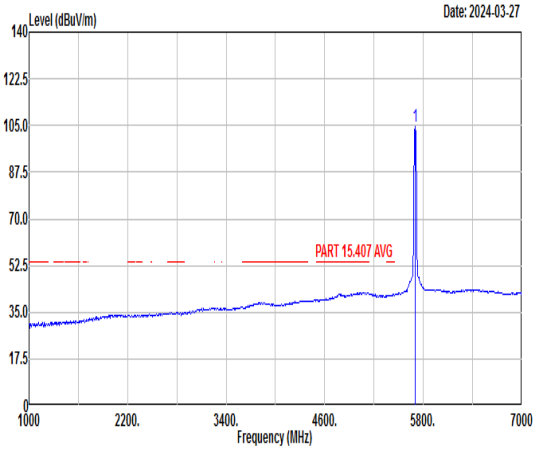
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11000.00	49.67	74.00	-24.33	61.57	39.00	12.52	63.42	---	---	Peak
2	16500.00	48.77	68.30	-19.53	56.91	41.35	15.17	64.66	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11000.00	49.07	74.00	-24.93	60.97	39.00	12.52	63.42	---	---	Peak
2	16500.00	49.89	68.30	-18.41	58.03	41.35	15.17	64.66	---	---	Peak

Mode	20	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH116_5580MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11160.00	49.48	74.00	-24.52	61.21	39.06	12.64	63.43	---	---	Peak
2	16740.00	49.66	68.30	-18.64	57.75	41.47	15.35	64.91	---	---	Peak

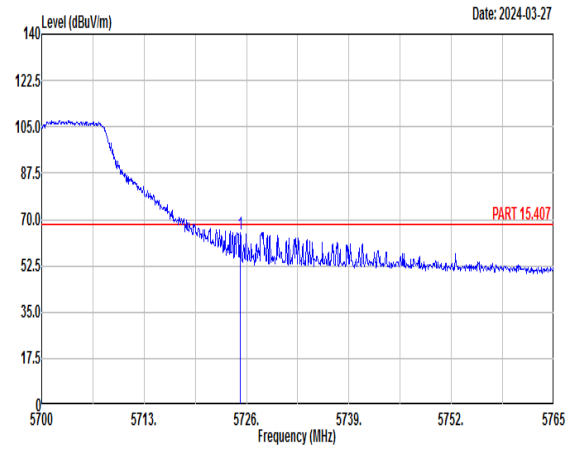
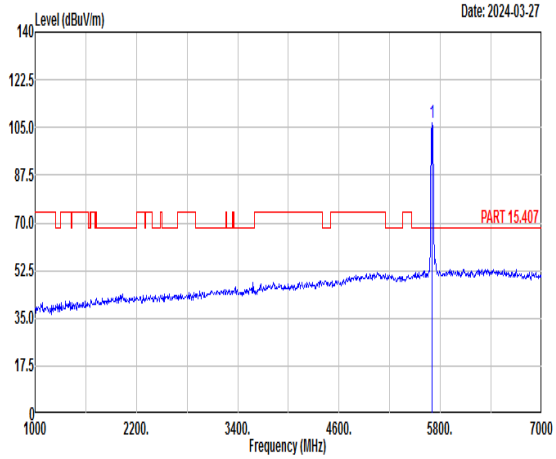
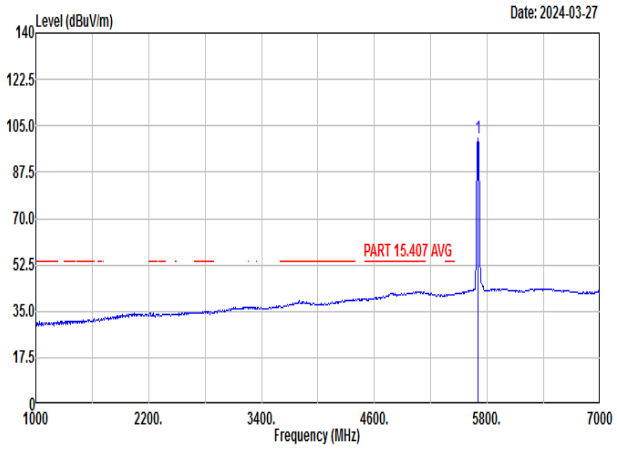
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11160.00	49.78	74.00	-24.22	61.51	39.06	12.64	63.43	---	---	Peak
2	16740.00	50.06	68.30	-18.24	58.15	41.47	15.35	64.91	---	---	Peak

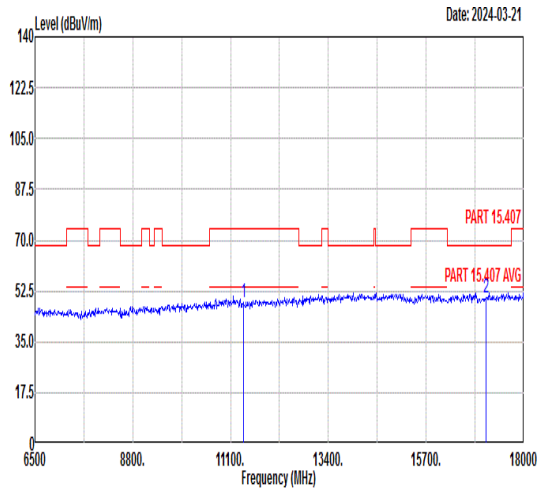
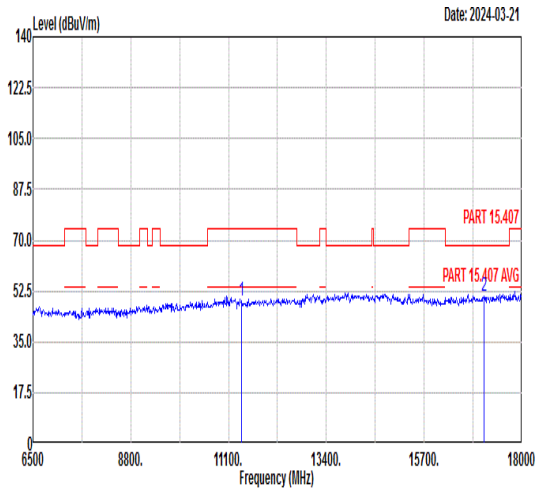
Mode	21	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak		
Avg	Blank	

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5725.61	64.94	68.30	-3.36	51.39	36.22	10.02	32.69	100	111	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	111.36	------	------	97.88	36.19	9.97	32.68	100	111	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	104.56	------	------	91.10	36.18	9.96	32.68	100	111	AVERAGE

Mode	21	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.16 64.30 68.30 -4.00 50.75 36.22 10.02 32.69 400 72 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 106.76 ------ ------ 93.28 36.19 9.97 32.68 400 72 PEAK
Avg	Blank	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5700.00 100.21 ------ ------ 86.75 36.18 9.96 32.68 400 72 AVERAGE

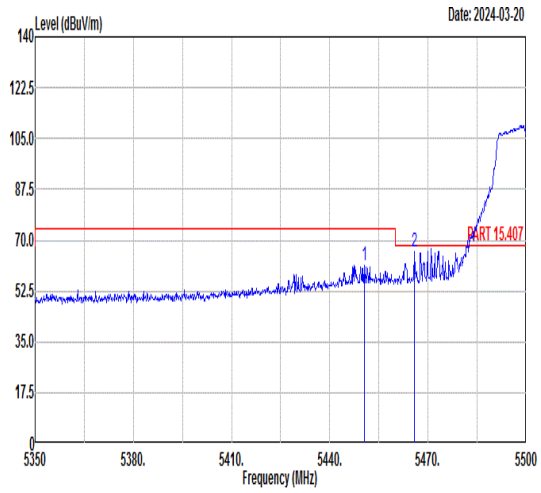
Mode	21	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11a_CH140_5700MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11400.00	48.43	74.00	-25.57	59.90	39.16	12.81	63.44	---	---	Peak
2	17100.00	50.41	68.30	-17.89	58.31	41.71	15.62	65.23	---	---	Peak

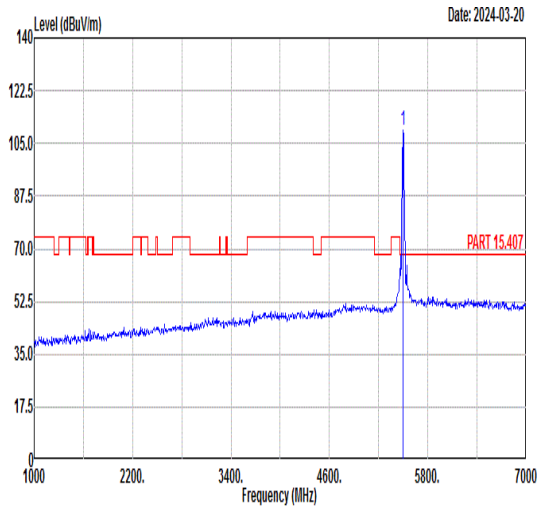
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11400.00	49.13	74.00	-24.87	60.60	39.16	12.81	63.44	---	---	Peak
2	17100.00	50.83	68.30	-17.47	58.73	41.71	15.62	65.23	---	---	Peak

Mode	22	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

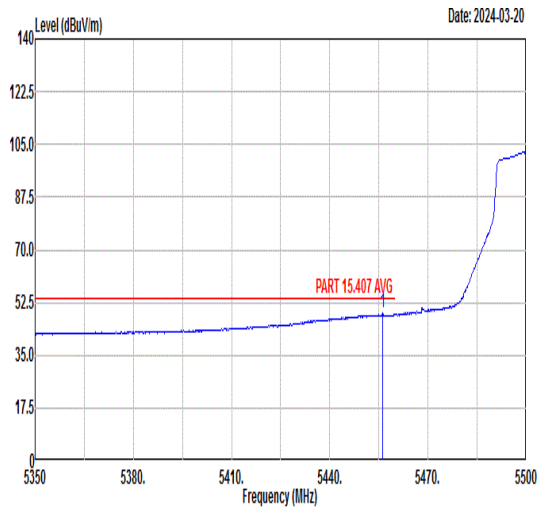


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5450.50	61.46	74.00	-12.54	47.92	35.93	9.68	32.07	100	294	PEAK
2	5465.95	65.97	68.30	-2.33	52.41	35.92	9.69	32.05	100	294	PEAK

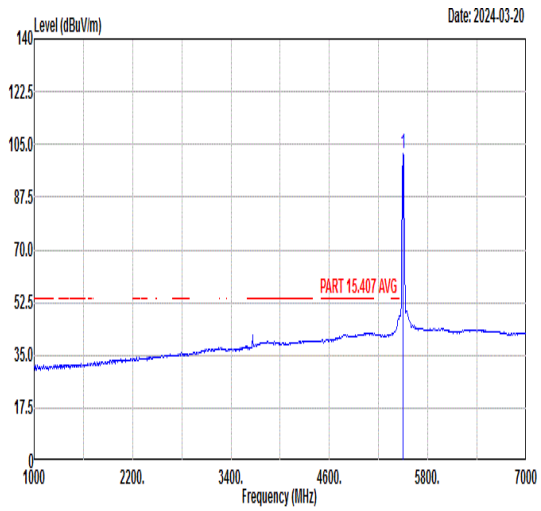


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	109.34	------	------	95.73	35.90	9.71	32.00	100	294	PEAK

Avg



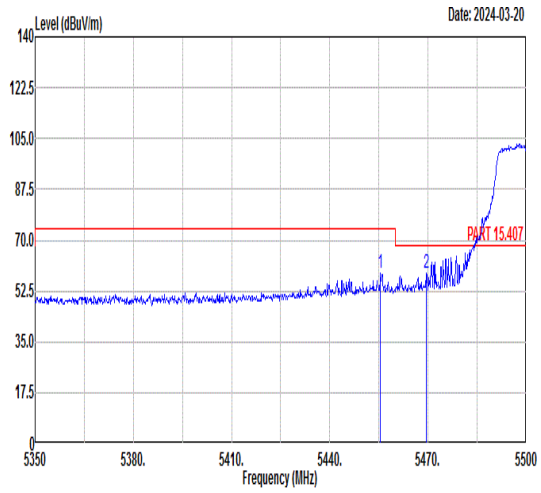
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5456.20	49.24	54.00	-4.76	35.68	35.93	9.69	32.06	100	294	AVERAGE



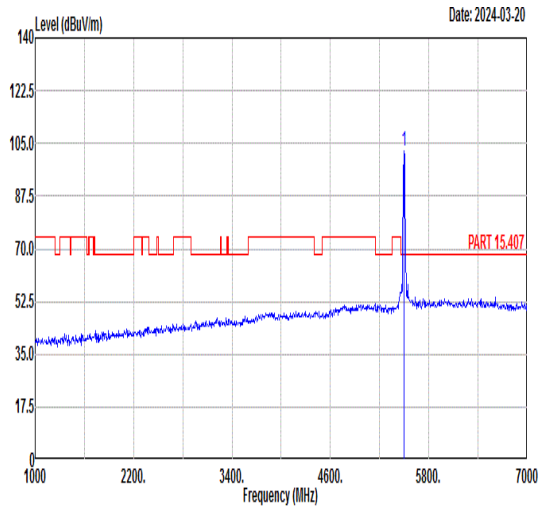
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	102.17	------	------	88.56	35.90	9.71	32.00	100	294	AVERAGE

Mode	22	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

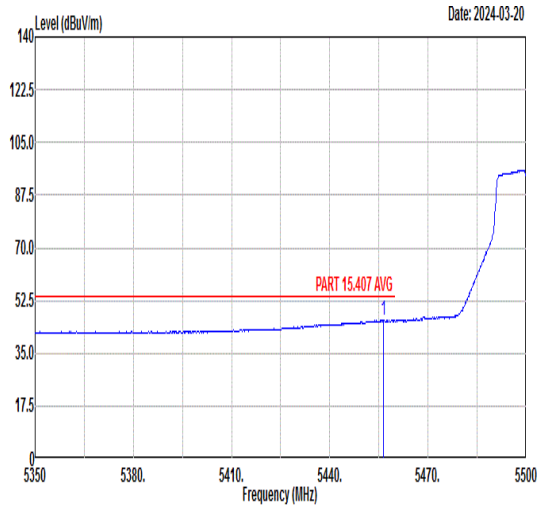


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5455.45	58.52	74.00	-15.48	44.97	35.93	9.68	32.06	321	259	PEAK
2	5469.40	58.54	68.30	-9.76	44.97	35.92	9.69	32.04	321	259	PEAK

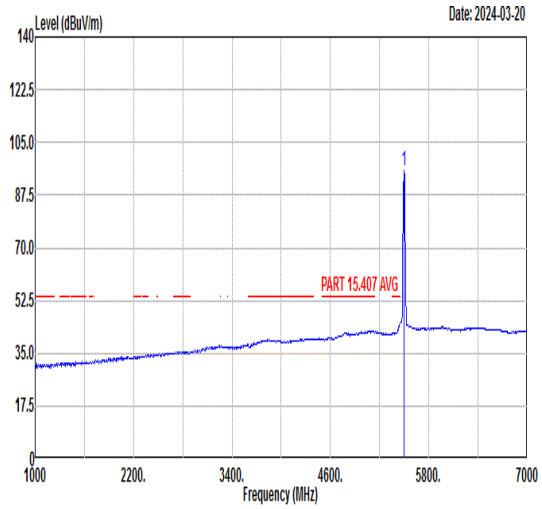


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	102.56	------	------	88.95	35.90	9.71	32.00	321	259	PEAK

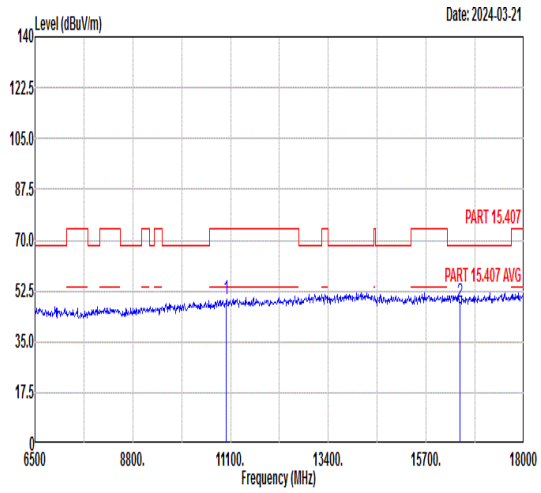
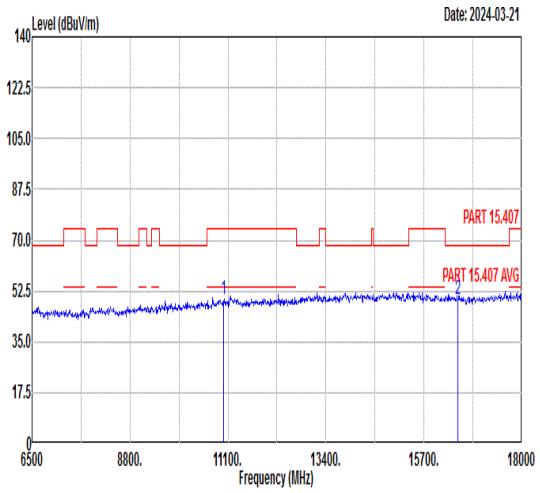
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5456.35	45.96	54.00	-8.04	32.40	35.93	9.69	32.06	321	259	AVERAGE

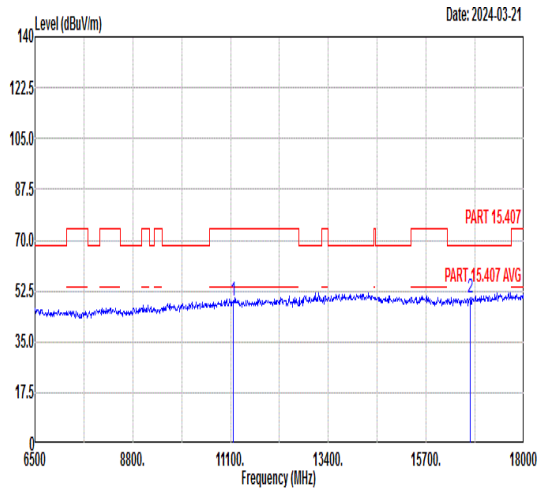
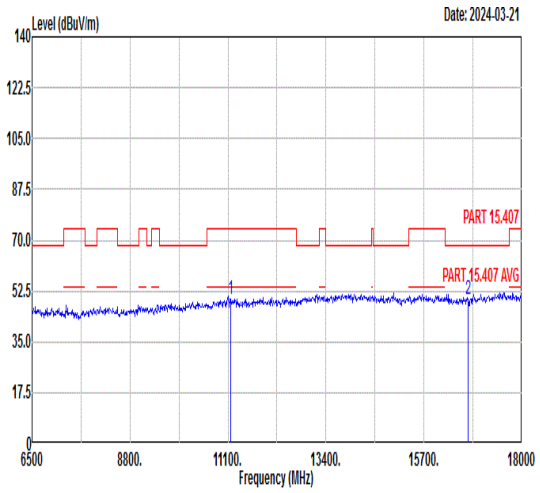


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	(dB)	dBuV	dB/m	dB	dB	cm	deg	
1	5500.00	95.53	------	------	81.92	35.90	9.71	32.00	321	259	AVERAGE

Mode	22	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH100_5500MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

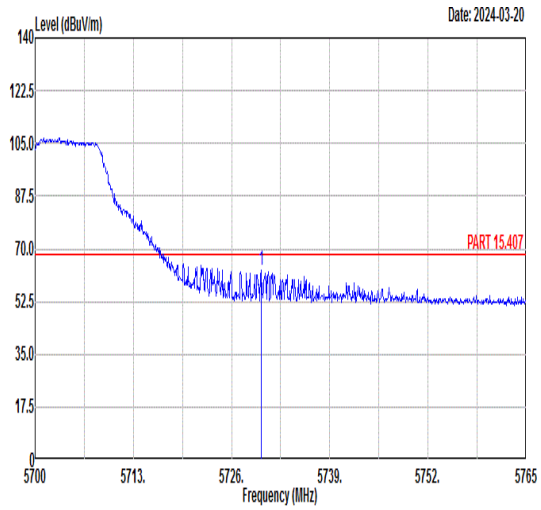
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11000.00	49.46	74.00	-24.54	61.36	39.00	12.52	63.42	---	---	Peak
2	16500.00	48.37	68.30	-19.93	56.51	41.35	15.17	64.66	---	---	Peak

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11000.00	49.49	74.00	-24.51	61.39	39.00	12.52	63.42	---	---	Peak
2	16500.00	49.83	68.30	-18.47	57.97	41.35	15.17	64.66	---	---	Peak

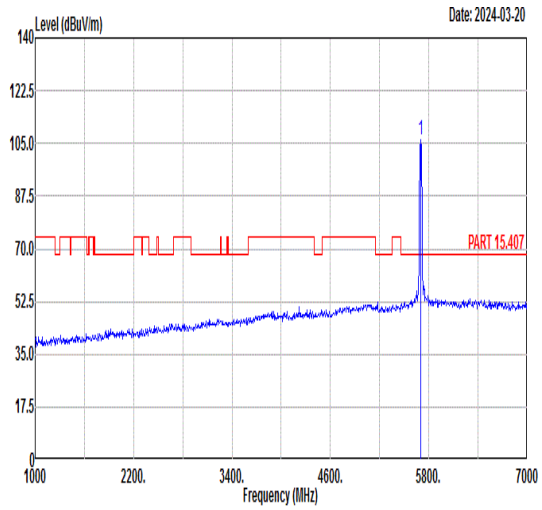
Mode	23	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH116_5580MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11160.00	49.17	74.00	-24.83	60.90	39.06	12.64	63.43	---	---	Peak
2	16740.00	50.07	68.30	-18.23	58.16	41.47	15.35	64.91	---	---	Peak

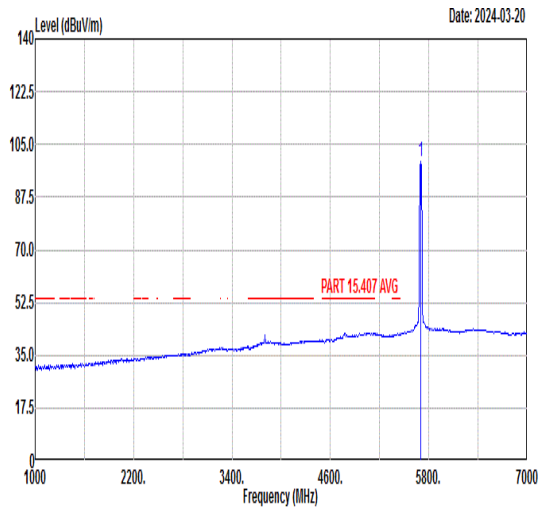
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11160.00	49.87	74.00	-24.13	61.60	39.06	12.64	63.43	---	---	Peak
2	16740.00	49.49	68.30	-18.81	57.58	41.47	15.35	64.91	---	---	Peak

<table>
<tr><td rowspan="3">Mode</td><td colspan="2">24</td></tr>
<tr><td colspan="2">Band Edge</td></tr>
<tr><td colspan="2">U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz</td></tr>
<tr><td>ANT</td><td colspan="2">22</td></tr>
<tr><td>Pol.</td><td>Horizontal</td><td>Fundamental</td></tr>
<tr><td>Peak</td><td> 

	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	5729.97	63.03	68.30	-5.27	49.01	36.22	10.03	32.23	100	296	PEAK



	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	106.41	------	------	92.45	36.19	9.97	32.20	100	296	PEAK

</td></tr>
<tr><td>Avg</td><td>Blank</td><td> 

	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	99.33	------	------	85.37	36.19	9.97	32.20	100	296	AVERAGE

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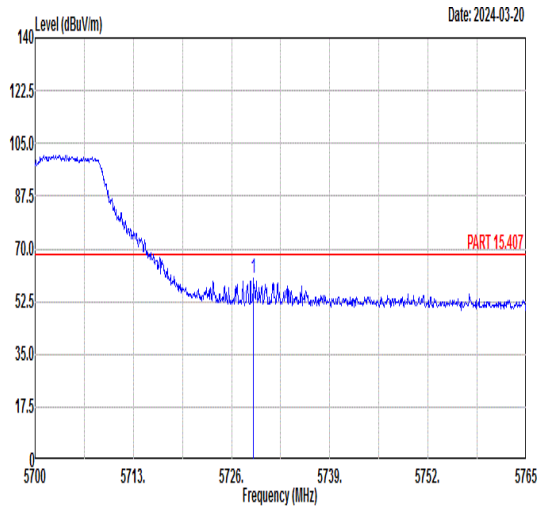
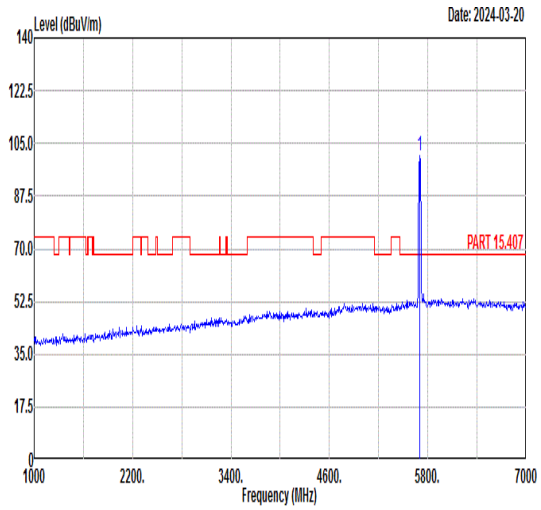
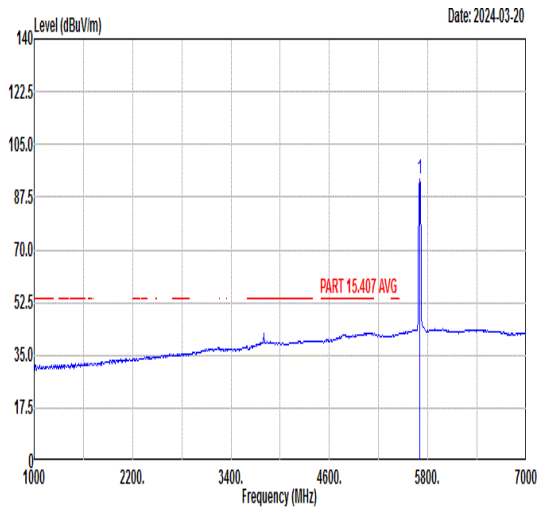
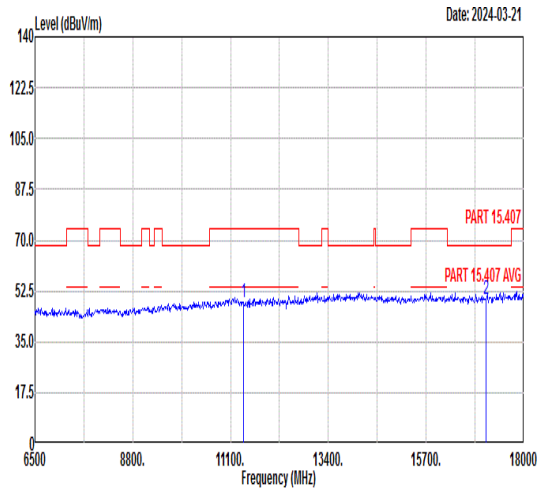
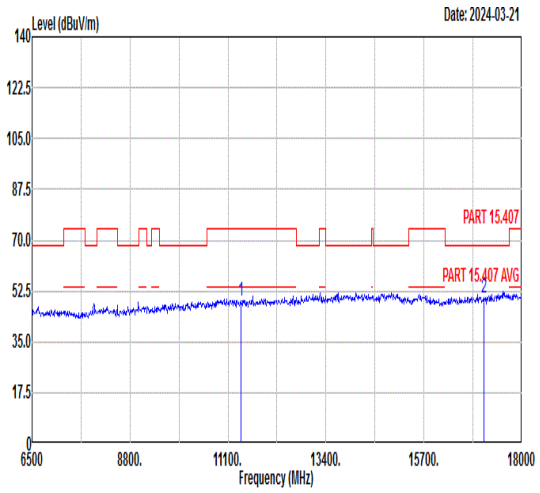
Mode	24	
	Band Edge	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak		
Avg	Blank	

	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5728.93	60.06	68.30	-8.24	46.04	36.22	10.03	32.23	400	259	PEAK

	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	100.90	------	------	86.94	36.19	9.97	32.20	400	259	PEAK

	Freq	Level	Limit Line	Margin (dB)	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	
1	5700.00	93.67	------	------	79.71	36.19	9.97	32.20	400	259	AVERAGE

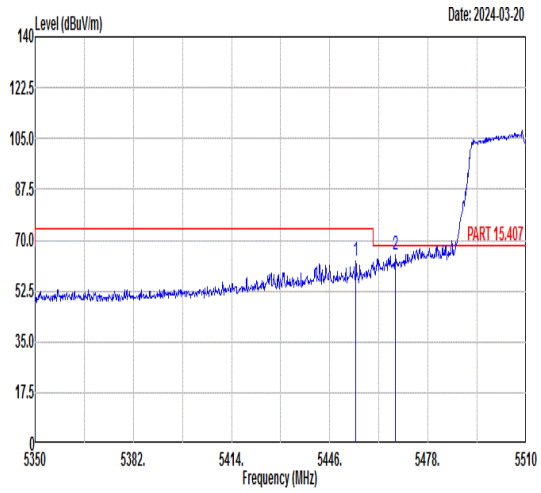
Mode	24	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11n HT20_CH140_5700MHz	
ANT	22	
Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11400.00	48.71	74.00	-25.29	60.18	39.16	12.81	63.44	---	---	Peak
2	17100.00	49.59	68.30	-18.71	57.49	41.71	15.62	65.23	---	---	Peak

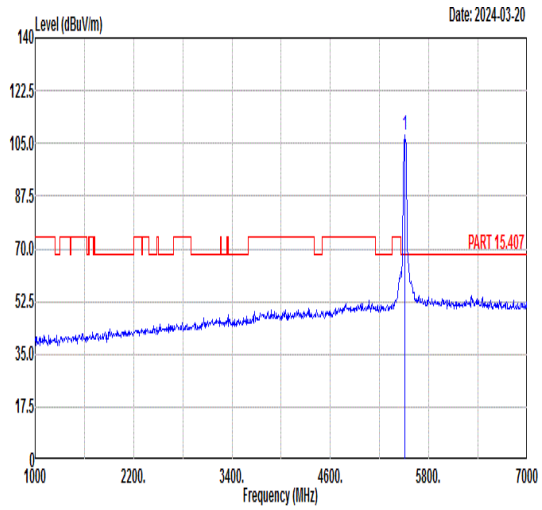
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	11400.00	48.97	74.00	-25.03	60.44	39.16	12.81	63.44	---	---	Peak
2	17100.00	50.00	68.30	-18.30	57.90	41.71	15.62	65.23	---	---	Peak

Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

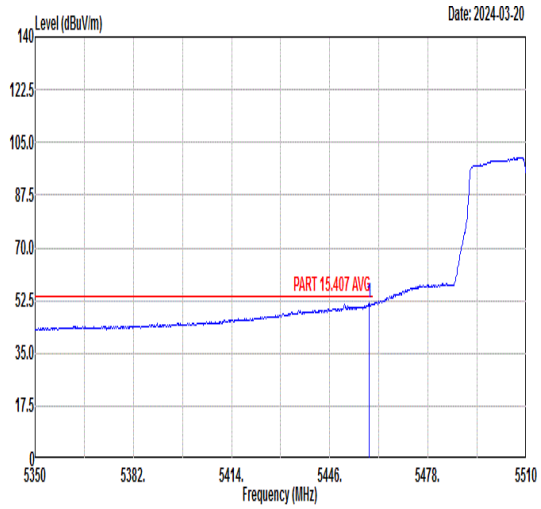


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5454.48	62.72	74.00	-11.28	49.17	35.93	9.68	32.06	104	297	PEAK
2	5467.44	64.74	68.30	-3.56	51.18	35.92	9.69	32.05	104	297	PEAK

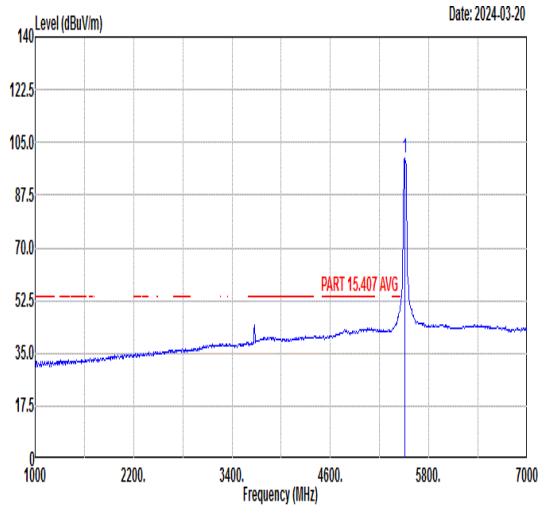


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5510.00	107.99	------	------	94.37	35.92	9.71	32.01	104	297	PEAK

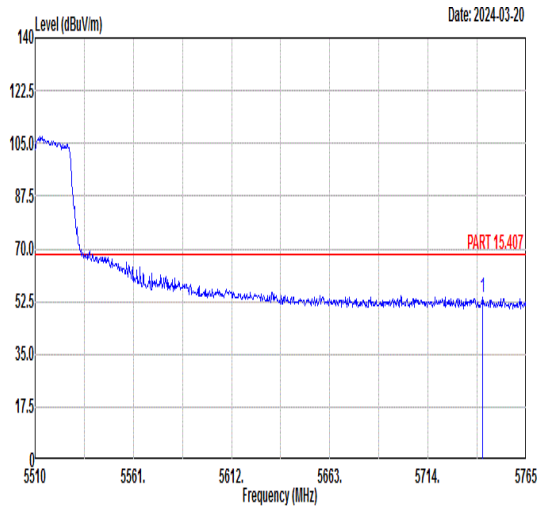
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5458.80	51.66	54.00	-2.34	38.11	35.92	9.69	32.06	104	297	AVERAGE

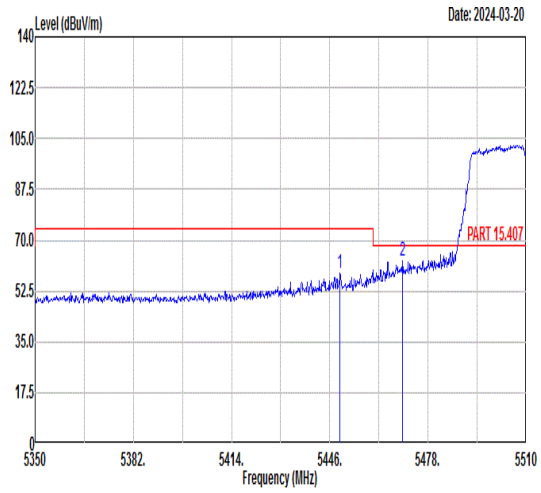


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5510.00	99.73	------	------	86.11	35.92	9.71	32.01	104	297	AVERAGE

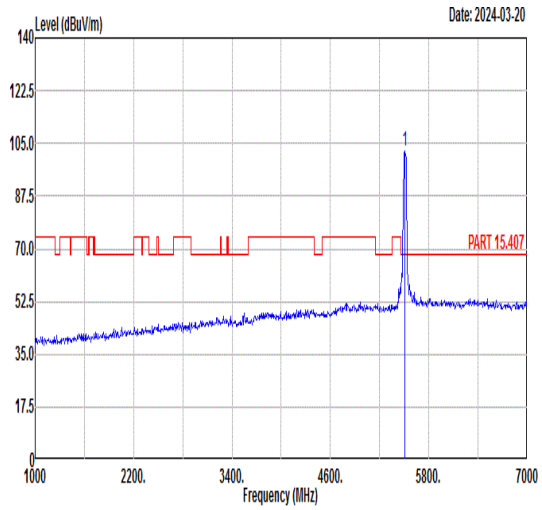
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5742.31 53.74 68.30 -14.56 39.68 36.24 10.06 32.24 104 297 PEAK	Blank

Mode	25	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

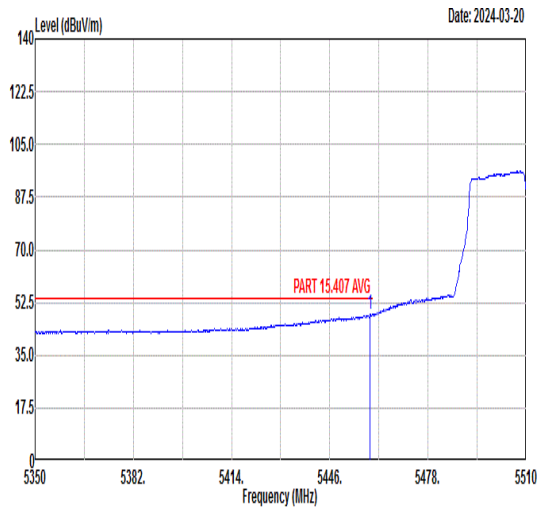


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5449.36	58.39	74.00	-15.61	44.85	35.93	9.68	32.07	302	246	PEAK
2	5469.68	63.08	68.30	-5.22	49.51	35.92	9.69	32.04	302	246	PEAK

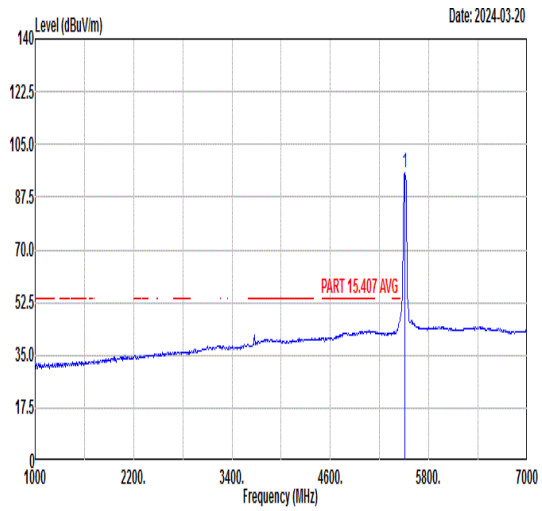


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5510.00	102.57	------	------	88.96	35.91	9.71	32.01	302	246	PEAK

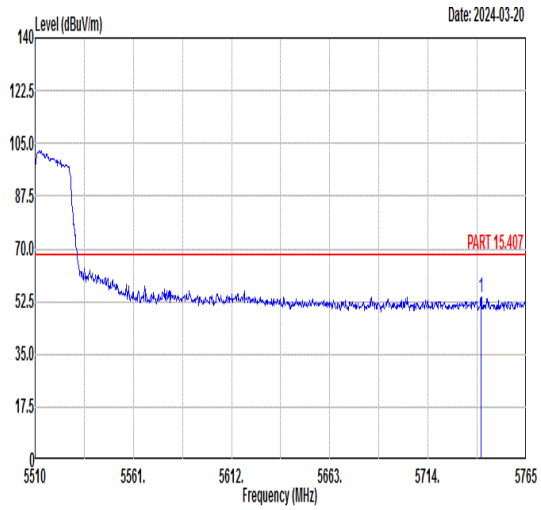
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5459.12	48.79	54.00	-5.21	35.24	35.92	9.69	32.06	302	246	AVERAGE

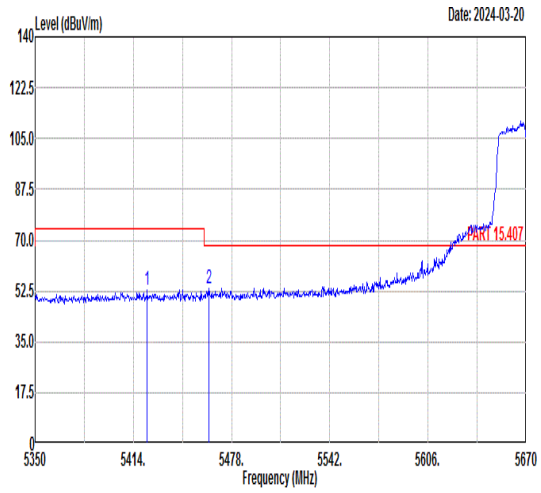


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5510.00	95.80	------	------	82.19	35.91	9.71	32.01	302	246	AVERAGE

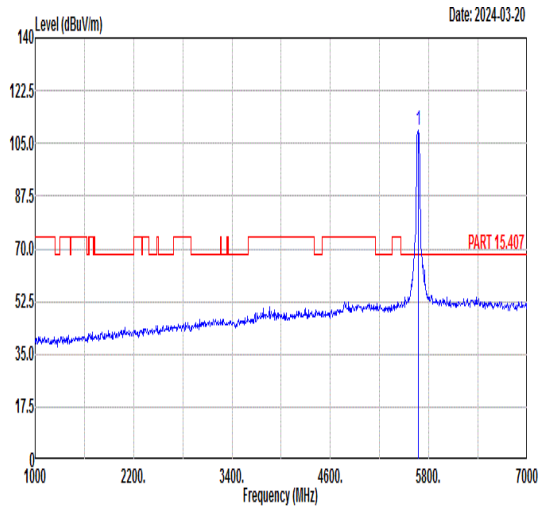
Mode	25	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH102_5510MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5741.54 54.03 68.30 -14.27 39.98 36.24 10.05 32.24 302 246 PEAK	Blank

Mode	26	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

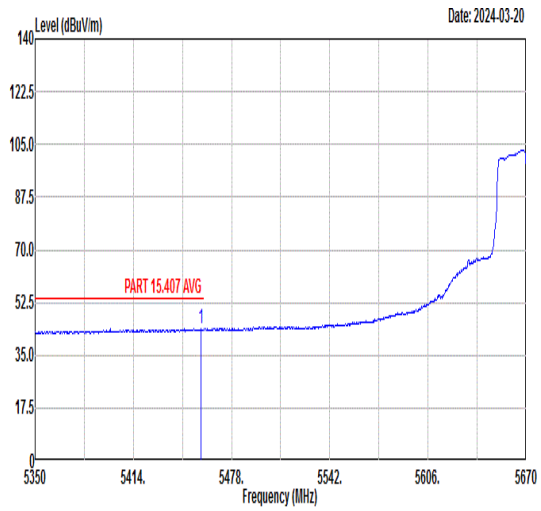


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5422.96	52.62	74.00	-21.38	39.11	35.95	9.67	32.11	100	296	PEAK
2	5463.28	53.18	68.30	-15.12	39.62	35.92	9.69	32.05	100	296	PEAK

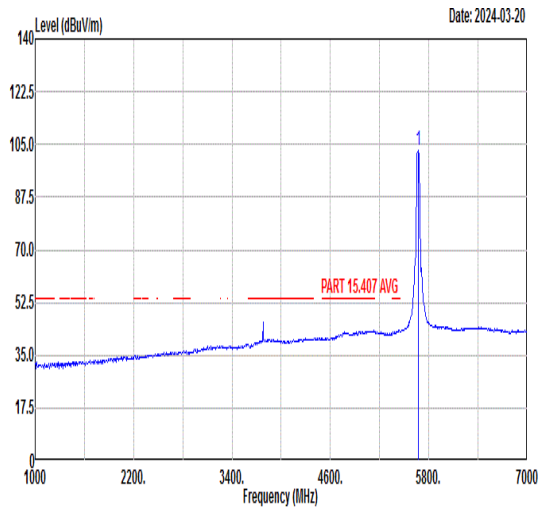


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5670.00	109.24	------	------	95.37	36.14	9.90	32.17	100	296	PEAK

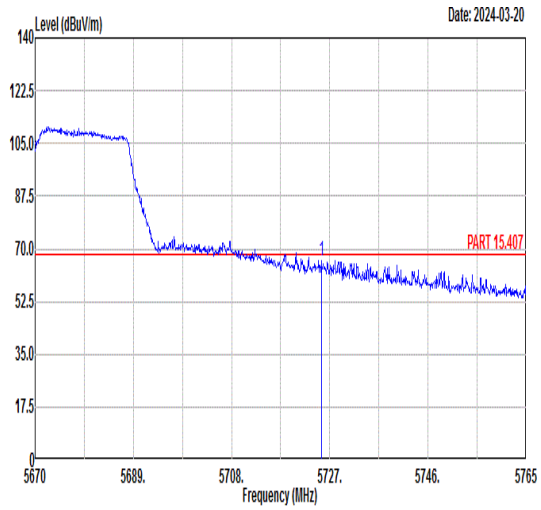
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5457.84	43.73	54.00	-10.27	30.17	35.93	9.69	32.06	100	296	AVERAGE

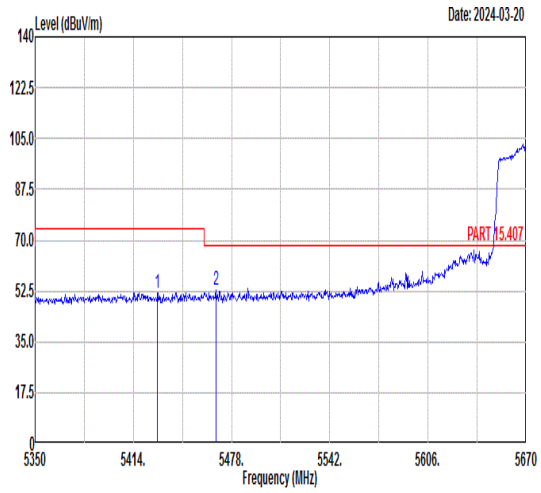


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5670.00	103.15	------	------	89.28	36.14	9.90	32.17	100	296	AVERAGE

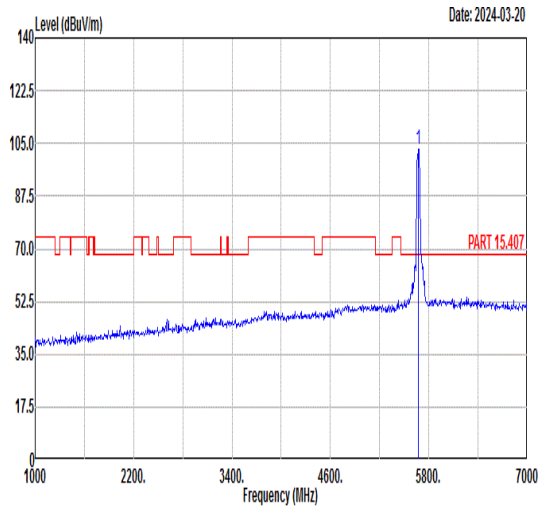
Mode	26	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5725.39 65.99 68.30 -2.31 51.98 36.22 10.02 32.23 100 296 PEAK	Blank

Mode	26	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

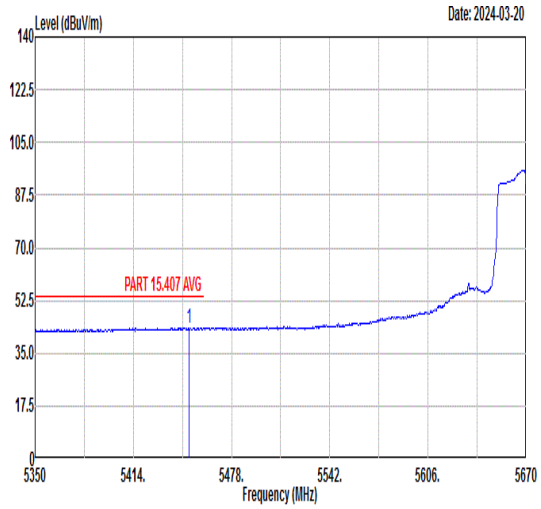


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5429.68	52.00	74.00	-22.00	38.49	35.94	9.67	32.10	384	250	PEAK
2	5467.76	53.02	68.30	-15.28	39.46	35.92	9.69	32.05	384	250	PEAK

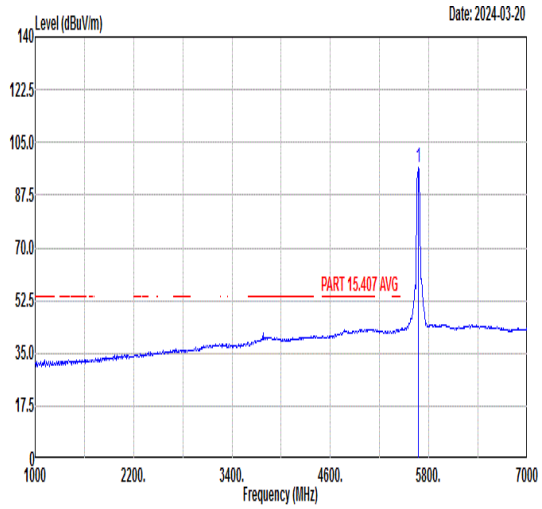


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5670.00	102.96	------	------	89.05	36.16	9.94	32.19	384	250	PEAK

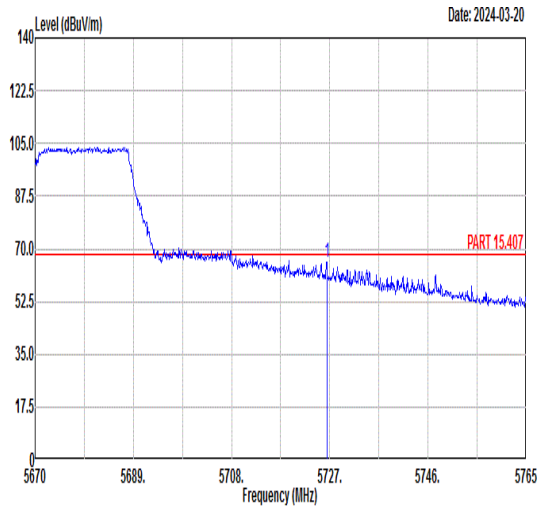
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5450.48	43.49	54.00	-10.51	29.95	35.93	9.68	32.07	384	250	AVERAGE

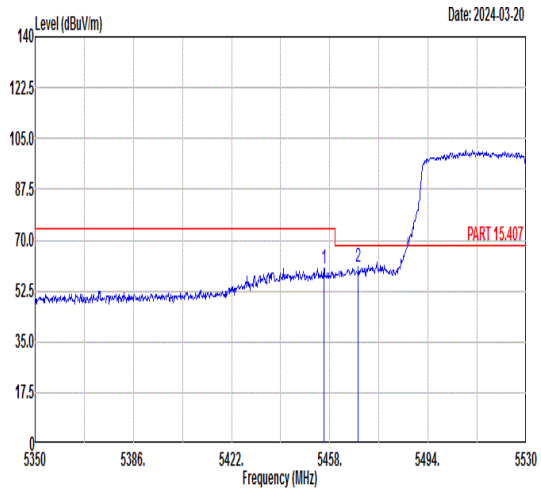


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5670.00	96.43	------	------	82.55	36.14	9.91	32.17	384	250	AVERAGE

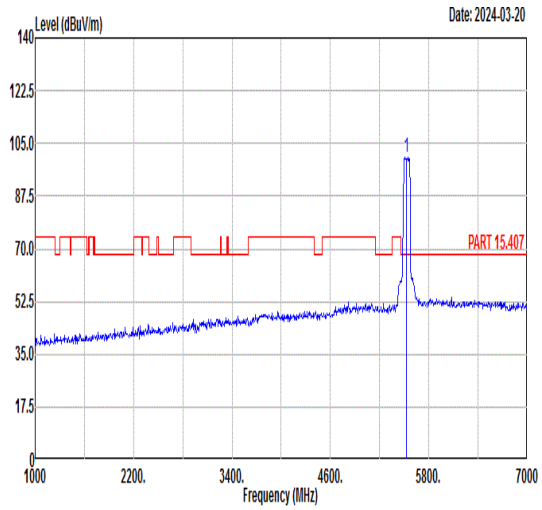
Mode	26	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11n HT40_CH134_5670MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.43 65.34 68.30 -2.96 51.33 36.22 10.02 32.23 384 250 PEAK	Blank

Mode	27	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

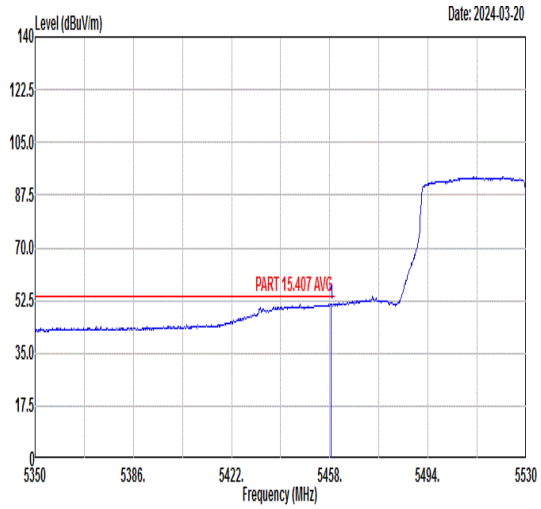


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5455.84	60.30	74.00	-13.70	46.74	35.93	9.69	32.06	111	296	PEAK
2	5468.44	60.52	68.30	-7.78	46.95	35.92	9.69	32.04	111	296	PEAK

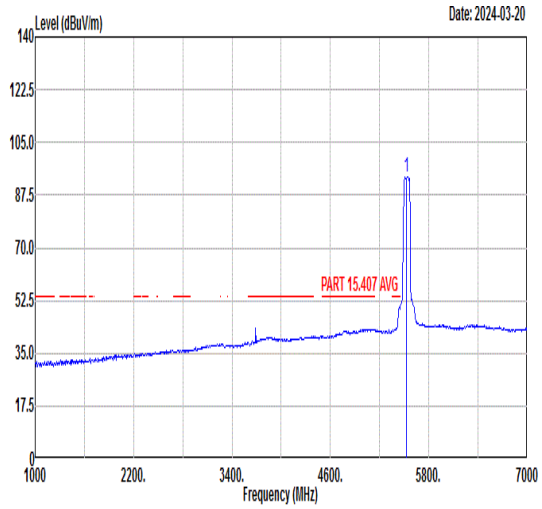


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5530.00	100.57	------	------	86.92	35.96	9.73	32.04	111	296	PEAK

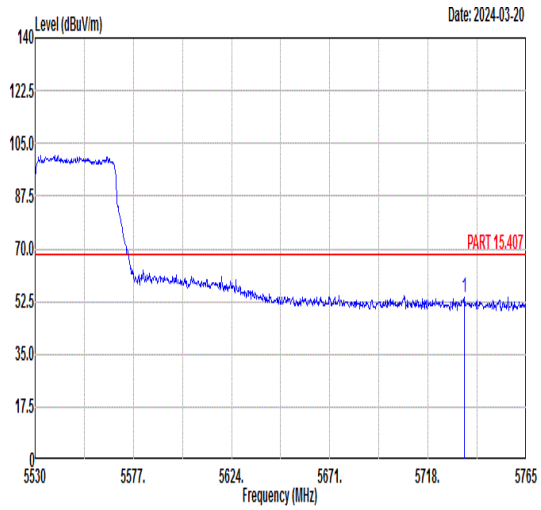
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5458.54	51.27	54.00	-2.73	37.72	35.92	9.69	32.06	111	296	AVERAGE



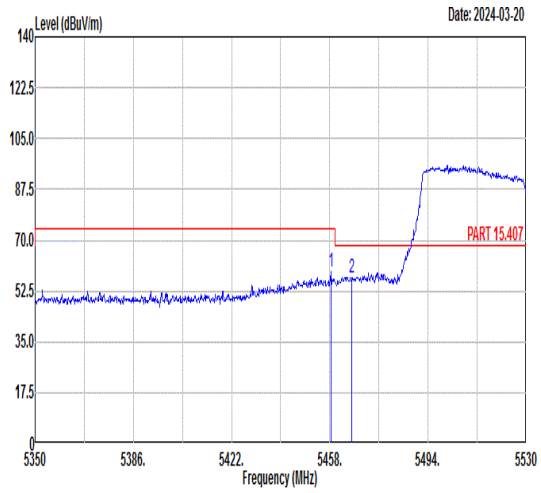
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5530.00	93.34	------	------	79.70	35.95	9.73	32.04	111	296	AVERAGE

Mode	27	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak		Blank

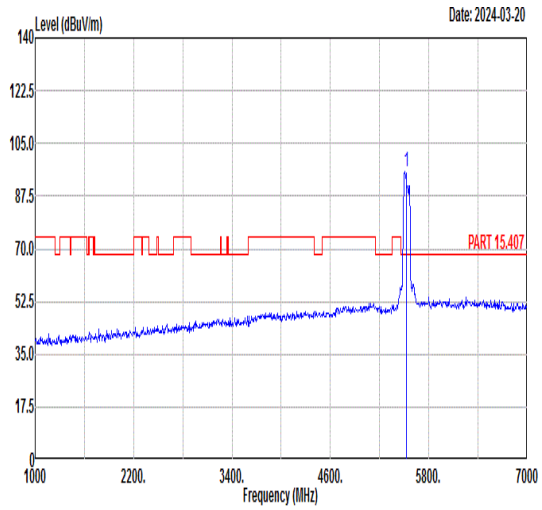
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5735.39	53.90	68.30	-14.40	39.87	36.23	10.04	32.24	111	296	PEAK

Mode	27	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

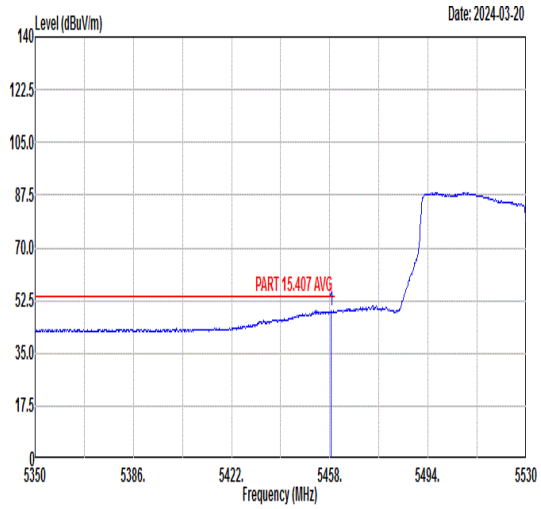


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5458.36	59.16	74.00	-14.84	45.61	35.92	9.69	32.06	400	265	PEAK
2	5466.10	57.30	68.30	-11.00	43.74	35.92	9.69	32.05	400	265	PEAK

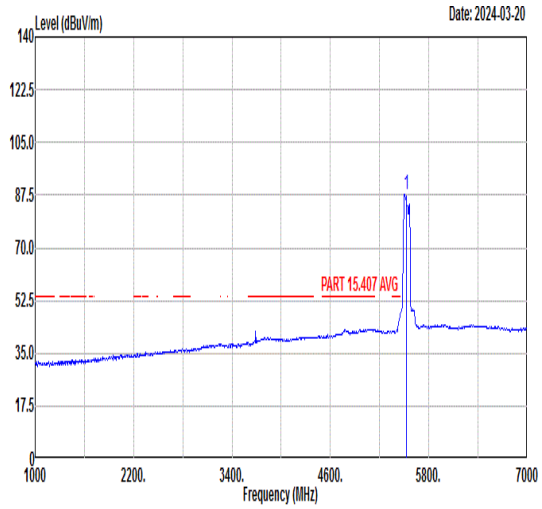


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5530.00	95.71	------	------	82.09	35.92	9.71	32.01	400	265	PEAK

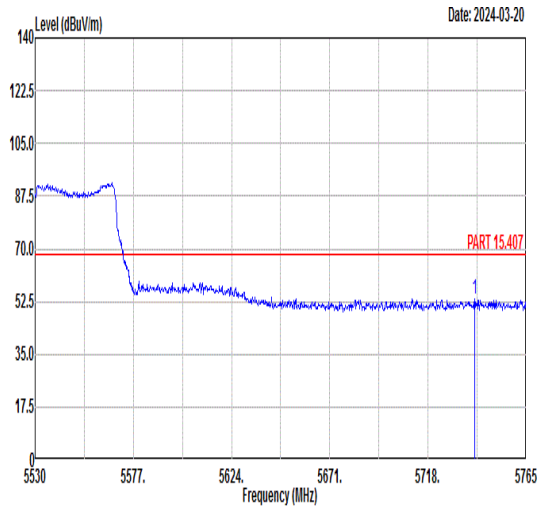
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5458.54	48.90	54.00	-5.10	35.35	35.92	9.69	32.06	400	265	AVERAGE



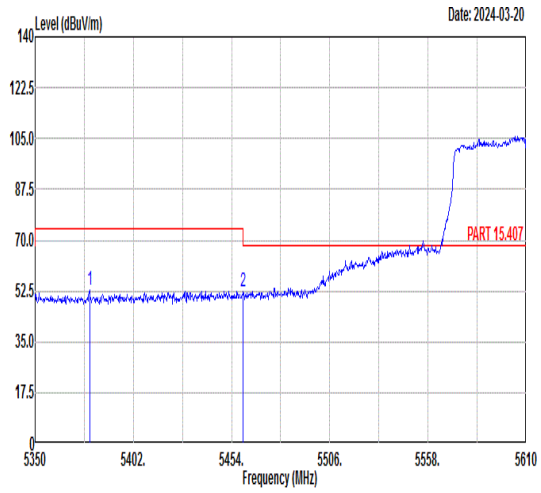
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5530.00	87.94	------	------	74.33	35.91	9.71	32.01	400	265	AVERAGE

Mode	27	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH106_5530MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak		Blank

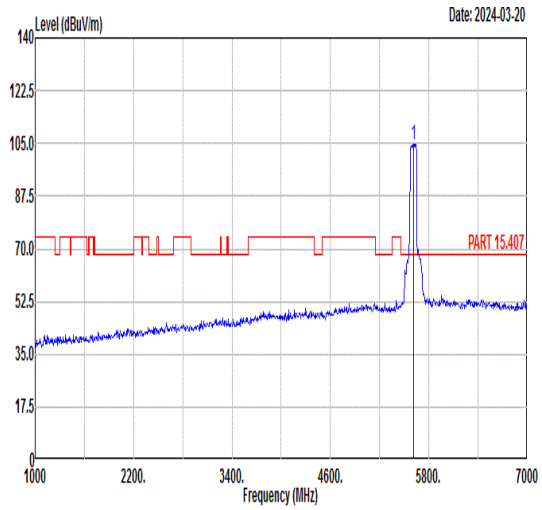
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5740.33	53.39	68.30	-14.91	39.34	36.24	10.05	32.24	400	265	PEAK

Mode	28	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
ANT	22	
Pol.	Horizontal	Fundamental

Peak

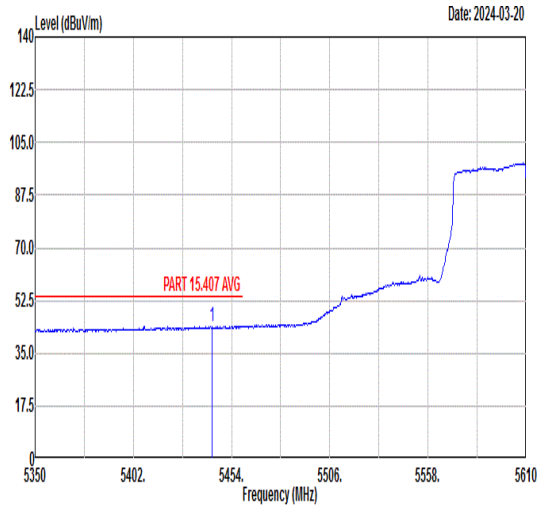


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5378.86	52.66	74.00	-21.34	39.35	35.97	9.51	32.17	100	286	PEAK
2	5460.24	52.47	68.30	-15.83	38.92	35.92	9.69	32.06	100	286	PEAK

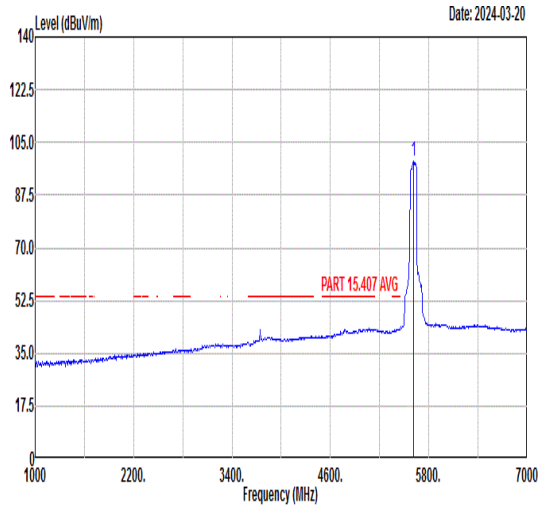


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5610.00	104.87	------	------	91.13	36.06	9.79	32.11	100	286	PEAK

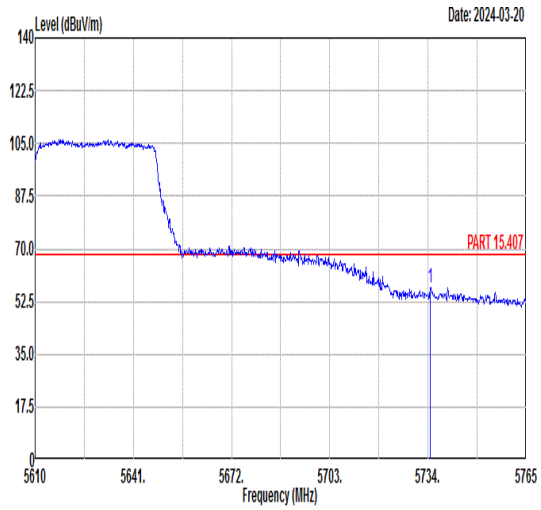
Avg



	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5443.86	44.07	54.00	-9.93	30.54	35.93	9.68	32.08	100	286	AVERAGE



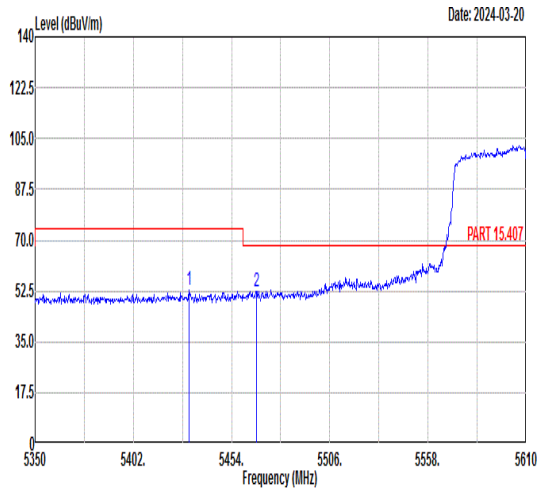
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5610.00	98.60	------	------	84.86	36.06	9.79	32.11	100	286	AVERAGE

Mode	28	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak		Blank

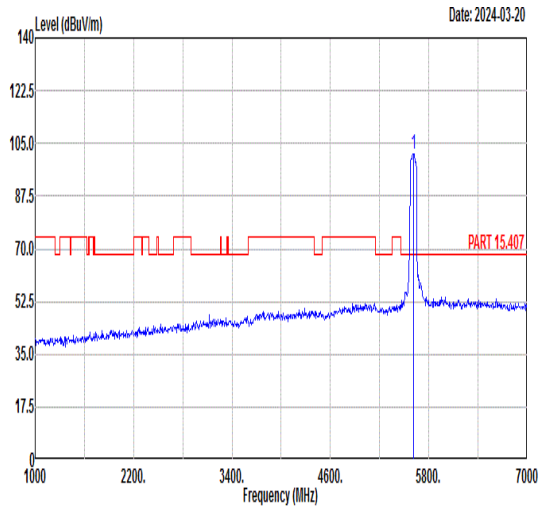
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5734.62	57.06	68.30	-11.24	43.02	36.23	10.04	32.23	100	286	PEAK

Mode	28	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
ANT	22	
Pol.	Vertical	Fundamental

Peak

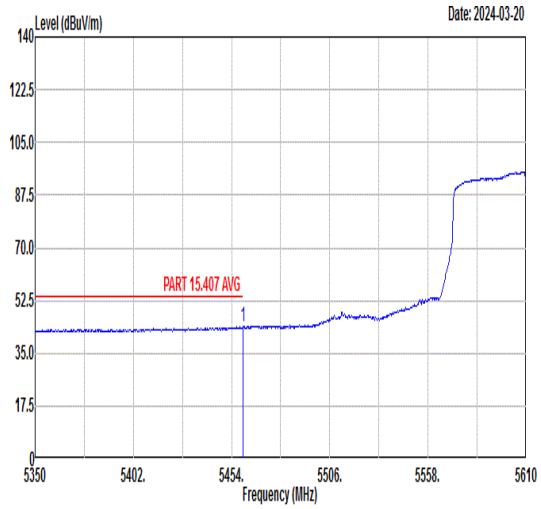


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5431.38	52.74	74.00	-21.26	39.23	35.94	9.67	32.10	379	250	PEAK
2	5467.26	52.53	68.30	-15.77	38.97	35.92	9.69	32.05	379	250	PEAK

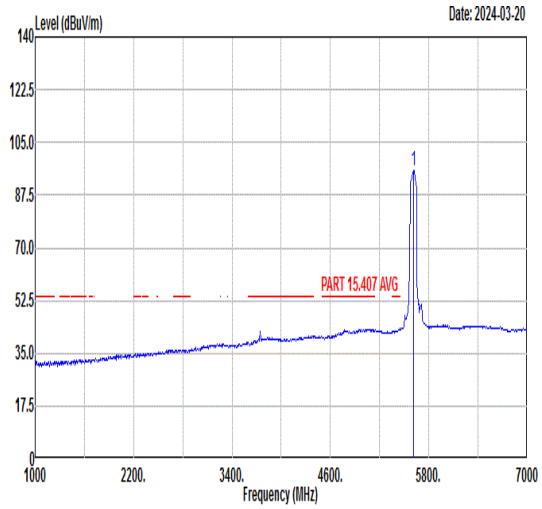


	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5610.00	101.67	------	------	87.96	36.05	9.77	32.11	379	250	PEAK

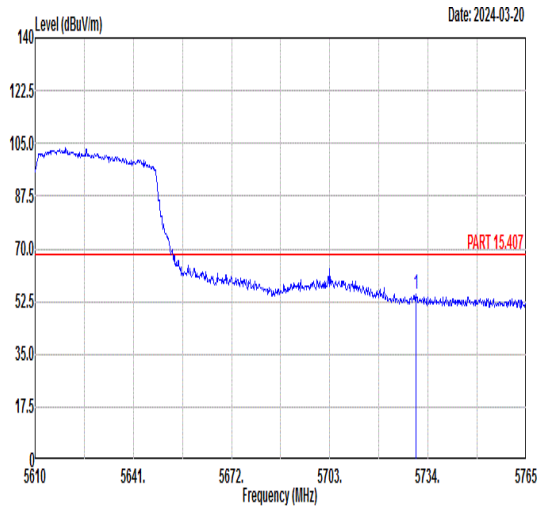
Avg



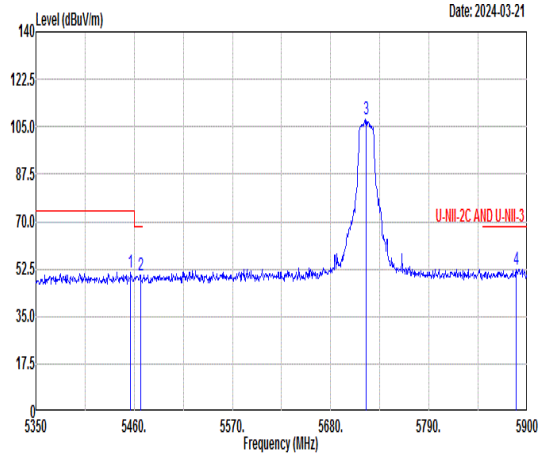
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5459.98	43.73	54.00	-10.27	30.18	35.92	9.69	32.06	379	250	AVERAGE



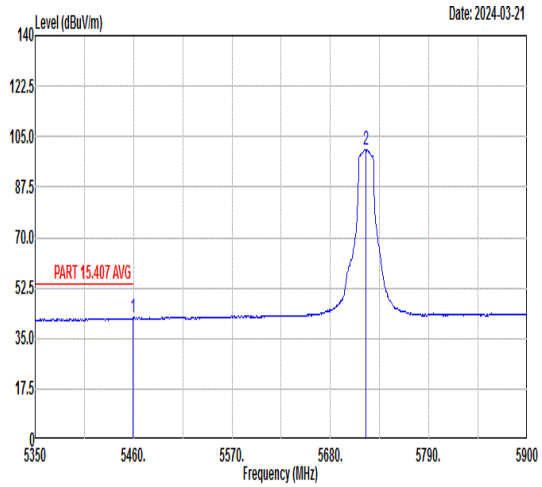
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5610.00	95.79	------	------	82.04	36.07	9.80	32.12	379	250	AVERAGE

Mode	28	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11ac VHT80_CH122_5610MHz	
ANT	22	
Pol.	Vertical	Fundamental
Peak		Blank

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5730.13	55.16	68.30	-13.14	41.14	36.22	10.03	32.23	379	250	PEAK

Mode	29	
Mode	Band Edge	
Mode	Straddle channels_5.47-5.725_802.11a_CH144_5720MHz	
ANT	22	
Pol.	Horizontal	Fundamental
Peak	Blank	

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5456.15	51.37	74.00	-22.63	38.36	35.93	9.69	32.61	384	43	Peak
2	5467.15	50.08	68.30	-18.22	37.08	35.92	9.69	32.61	384	43	Peak
3	5720.00	107.62	------	------	94.09	36.21	10.01	32.69	384	43	Peak
4	5887.90	52.47	68.30	-15.83	38.43	36.44	10.36	32.76	384	43	Peak

AVG	Blank	

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5459.45	42.03	54.00	-11.97	29.03	35.92	9.69	32.61	384	43	Peak
2	5720.00	100.48	------	------	86.95	36.21	10.01	32.69	384	43	Average