FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2615-1, XT2615-2, XT2615-3, XT2615V
FCC ID	:	IHDT56AT9
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Jun. 20, 2025

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.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)
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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 5
1.5 Modification of EUT 6
1.6 Testing Location 6
1.7 Test Software 6
1.8 Applicable Standards 7
1.9 Specification of Accessory 7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **8**
2.1 Carrier Frequency and Channel 8
2.2 Test Mode 9
2.3 Connection Diagram of Test System 10
2.4 Support Unit used in test configuration and system 10
2.5 EUT Operation Test Setup 10
3 TEST RESULT **11**
3.2 Unwanted Emissions Measurement 14
3.3 Antenna Requirements 19
4 LIST OF MEASURING EQUIPMENT **20**
5 MEASUREMENT UNCERTAINTY **21**
APPENDIX A. RADIATED SPURIOUS EMISSION
APPENDIX B. DUTY CYCLE PLOTS
APPENDIX C. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR561221E	Rev. 01	Initial issue of report	Jul. 17, 2025
FR561221E	Rev. 02	Revised the frequency range in section 1.4.	Jul. 28, 2025

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	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.2	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 4.63 dB at 5149.94 MHz
3.3	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Note: This is a variant report, the change note could be referred to the XT2615-1, XT2615-2, XT2615-3, XT2615V_ Operational Description of Product Equality Declaration which is exhibit separately. According to the change, only the worse cases of Conducted power & RSE were verified from original report FR482618E.

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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2615-1, XT2615-2, XT2615-3, XT2615V
FCC ID	IHDT56AT9
IMEI Code	Conducted: 350173620031790/350173620031808 Radiation: 350173620028077/350173620028085
HW Version	DVT2
SW Version	WWN36.6
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are four models, the four models are for different markets and no other difference.

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	**<UNII-1/2A/2C>** **<5180 MHz ~ 5720 MHz>** 802.11a : 20.15 dBm / 0.1035 W 802.11n HT20 : 20.67 dBm / 0.1167 W 802.11n HT40 : 20.11 dBm / 0.1026 W 802.11ac VHT80: 19.56 dBm / 0.0904 W **<UNII-3>** **<5745 MHz ~ 5825 MHz>** 802.11a : 20.75 dBm / 0.1189 W 802.11n HT20 : 20.72 dBm / 0.1180 W 802.11n HT40 : 19.53 dBm / 0.0897 W 802.11ac VHT80: 19.03 dBm / 0.0800 W

Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** PIFA Antenna type with gain -4.0 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna type with gain -4.0 dBi **<5500 MHz ~ 5720 MHz>** PIFA Antenna type with gain -4.0 dBi **<5745 MHz ~ 5825 MHz>** PIFA Antenna type with gain -4.5 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

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	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.**
	TH01-SZ 03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-201L
AC Adapter 2	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-201L
USB Cable 1	**Brand Name**	Motorola(WASHIN)	**Model Name**	HX-TL-04
USB Cable 2	**Brand Name**	Motorola(SAIBAO)	**Model Name**	STN-A131A
USB Cable 3	**Brand Name**	Motorola(WASHIN)	**Model Name**	HX-TL-07
USB Cable 4	**Brand Name**	Motorola(SAIBAO)	**Model Name**	STN-A132A
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	RL52
Battery 2	**Brand Name**	Motorola(Sunwoda)	**Model Name**	RL52

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: For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

2.1 Carrier Frequency and Channel

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

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

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

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
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 RSE test modes are considering the modulation and worse data rates as below table.

SISO Mode

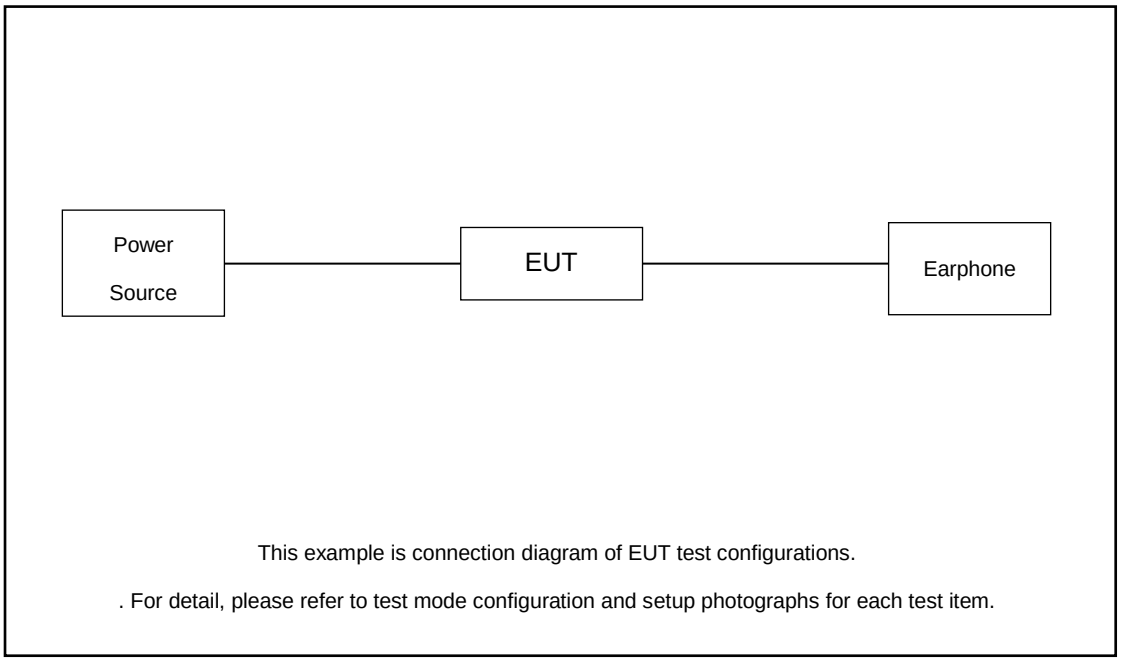
Modulation	Data Rate
802.11ac VHT80	**MCS0**

Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Earphone and USB Cable 1.

RSE Co-location mode
Bluetooth LE(2 Mbps) CH38_TX + 802.11ac VHT80 CH42 TX + LTE Band48 Link

Ch. #		U-NII-1	U-NII-3
		80M BW	80M BW
L	Low	-	-
M	Middle	42	155
H	High	-	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	apple	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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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3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

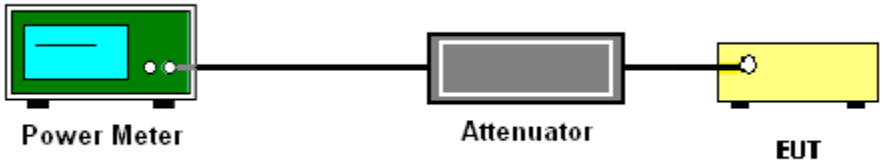
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

<U-NII-1/2A/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	Power Setting
11a	6M bps	1	52	5260	0.00	20.15	23.98	-4.00	26.99	Pass	20
HT20	MCS 0	1	144	5720	0.00	20.67	23.98	-4.00	26.99	Pass	21
HT40	MCS 0	1	54	5270	0.00	20.11	23.98	-4.00	26.99	Pass	20
VHT80	MCS 0	1	122	5610	0.00	19.56	23.98	-4.00	26.99	Pass	19

<U-NII-3>										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
11a	6M bps	1	149	5745	0.00	20.75	30.00	-4.50	Pass	21
HT20	MCS 0	1	149	5745	0.00	20.72	30.00	-4.50	Pass	21
HT40	MCS 0	1	151	5755	0.00	19.53	30.00	-4.50	Pass	20
VHT80	MCS 0	1	155	5775	0.00	19.03	30.00	-4.50	Pass	19

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

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

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

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

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

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

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

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

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

where

EIRP is the equivalent isotropically radiated power, in dBm

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

d_{Meas} is the measurement distance, in m

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

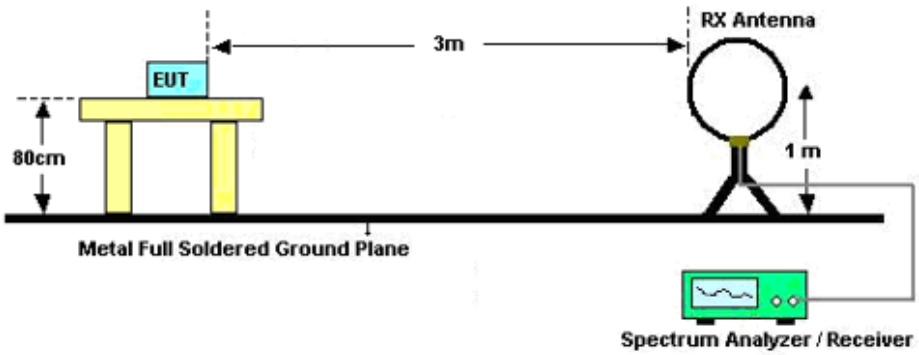
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

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

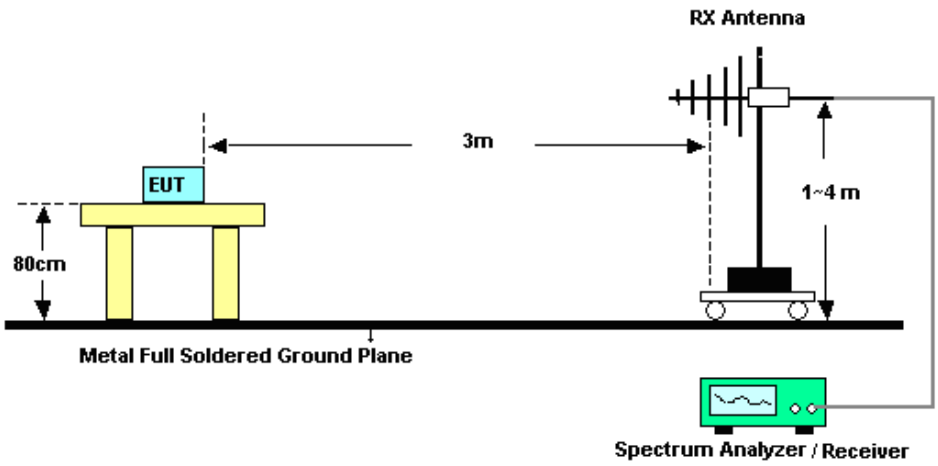
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter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

3.2.4 Test Setup

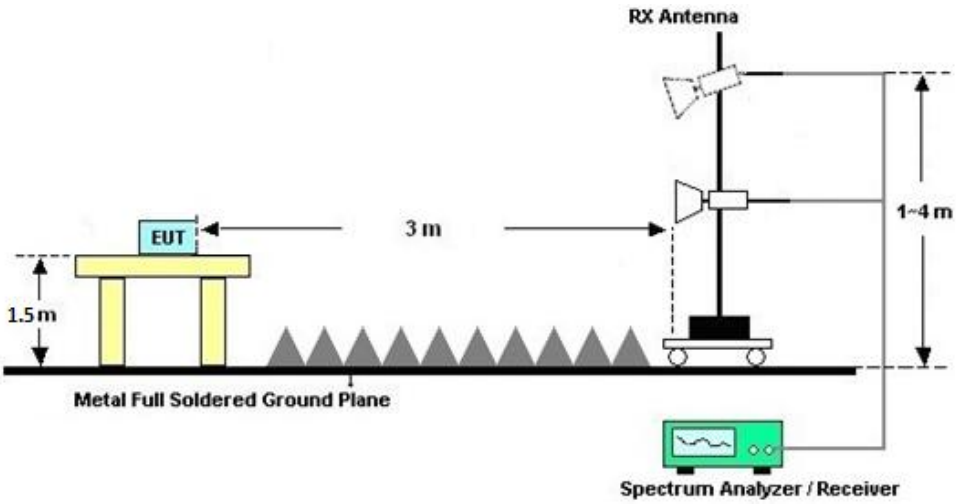
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.2.7 Duty Cycle

Please refer to Appendix B.

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

Please refer to Appendix A.

3.3 Antenna Requirements

3.3.1 Standard Applicable

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

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Jun. 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz-44GHz	Apr. 02, 2025	Jun. 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jun. 20, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Jun. 20, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridege Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Jun. 20, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Jun. 20, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Jun. 20, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	Jun. 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jun. 20, 2025	Oct. 13, 2025	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Jun. 20, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	Jun. 20, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 20, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 20, 2025	NCR	Radiation (03CH03-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Jun. 20, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct.14,2024	Jun. 20, 2025	Oct. 13, 2025	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 Power	±1.34 dB

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

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

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

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

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

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

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

Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Shunping You	**Relative Humidity :**	50%
		Temperature :	20-24℃

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	6	802.11ac VHT80	42	5210	MCS0	-	-
Mode 2	U-NII-3	5.725-5.85	6	802.11ac VHT80	155	5775	MCS0	-	-
Mode 3	U-NII-1	5.15-5.25	6	802.11ac VHT80	42	LF	MCS0	-	-
Mode 4	U-NII-3	5.725-5.85	6	802.11ac VHT80	155	LF	MCS0	-	-

Summary of each worse mode

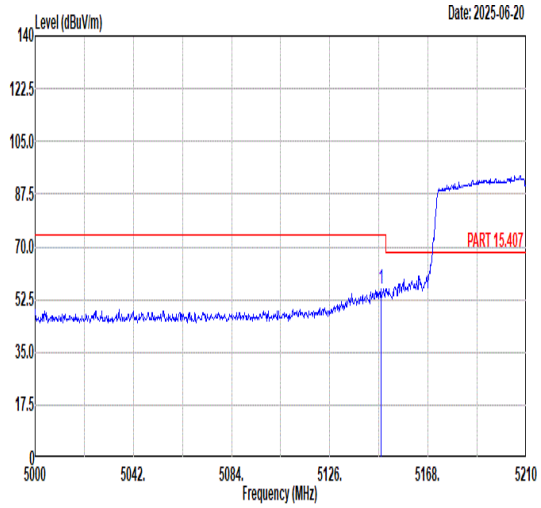
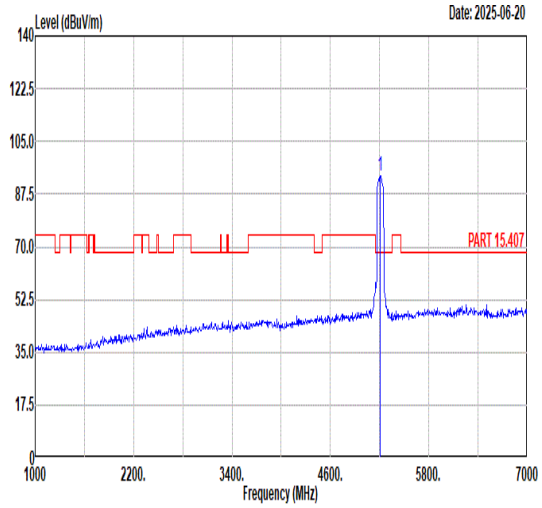
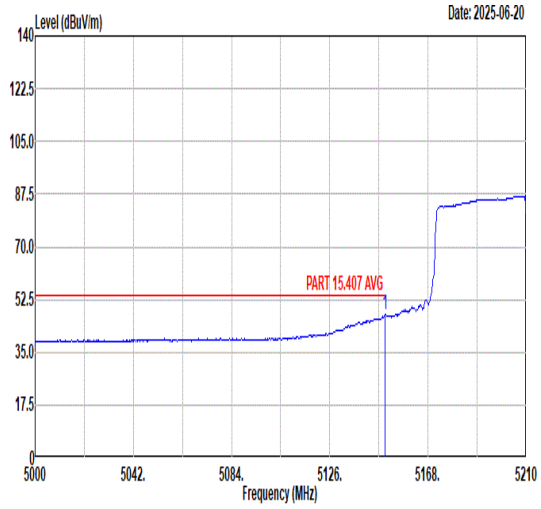
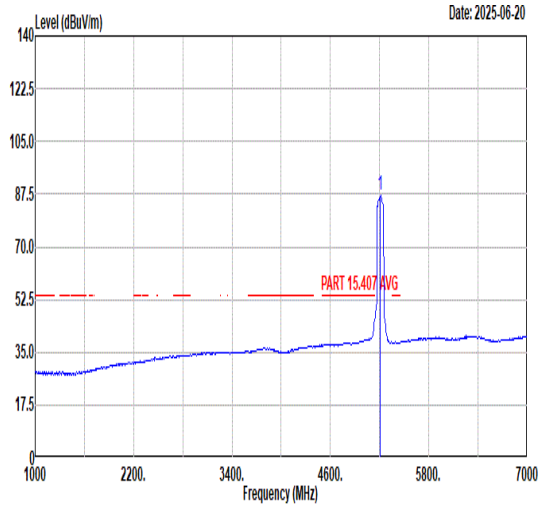
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ac VHT80	42	5149.94	49.37	54.00	-4.63	H	AVERAGE	Pass	Band Edge
1	802.11ac VHT80	42	10420.00	46.42	68.30	-21.88	V	Peak	Pass	Harmonic
2	802.11ac VHT80	155	5649.00	54.78	68.30	-13.52	H	PEAK	Pass	Band Edge
2	802.11ac VHT80	155	17325.00	49.49	68.30	-18.81	V	Peak	Pass	Harmonic
3	802.11ac VHT80	42	45.52	28.64	40	-11.36	H	PEAK	Pass	LF
4	802.11ac VHT80	155	47.46	27.37	40	-12.63	H	PEAK	Pass	LF

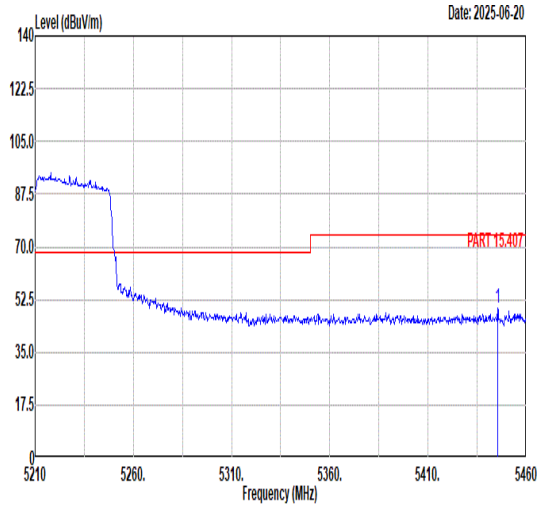
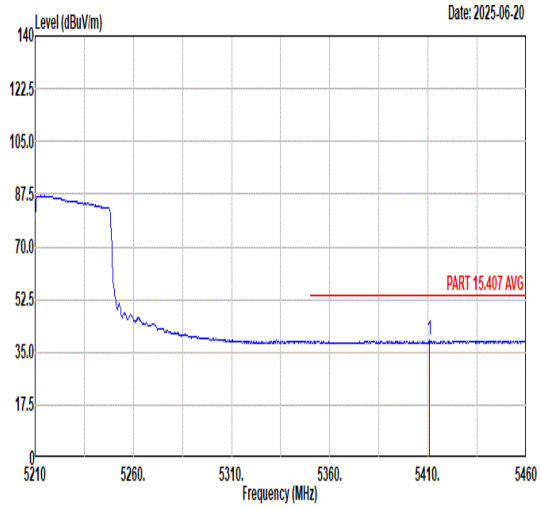
Co-location mode：
Radiated Spurious Emission Test Modes

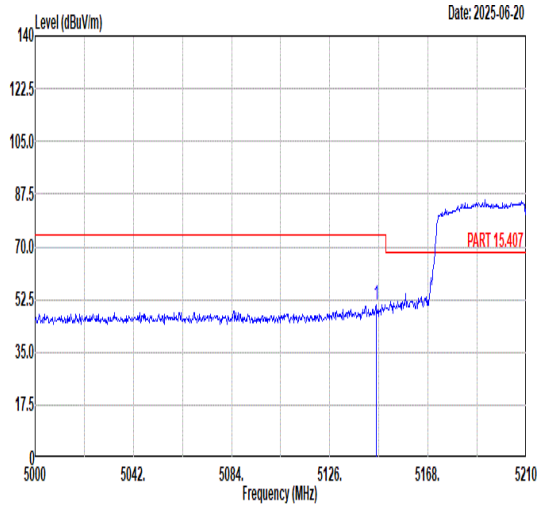
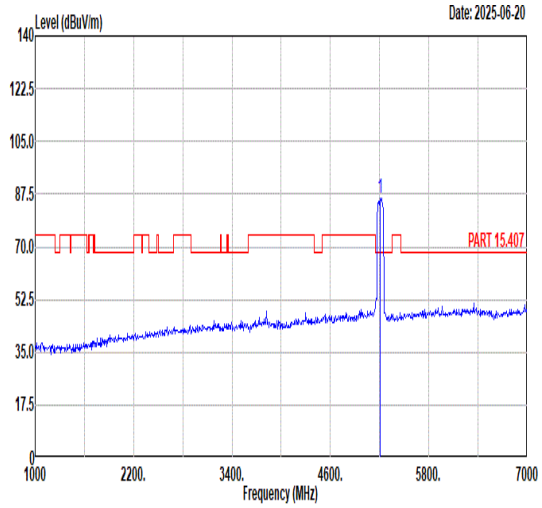
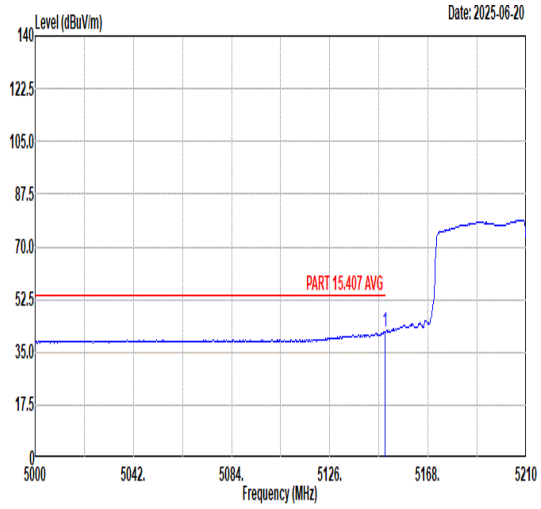
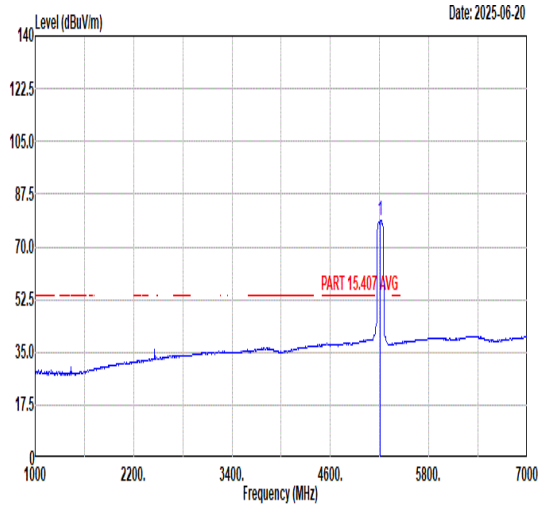
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 5	Co-TX	BT/BLE worse TX	6	Bluetooth-LE	38	2478	2M	-	-
		5G WIFI worse Tx	6	802.11ac VHT80	42	5210	MCS0		-
		WWAN worse Link	5	LTE B48 Link	-	-	-	-	-

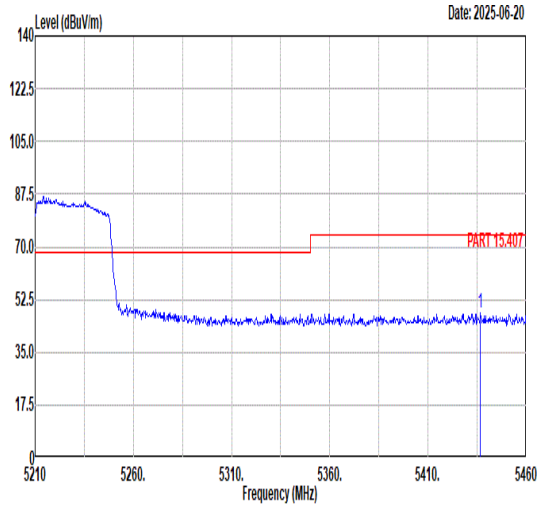
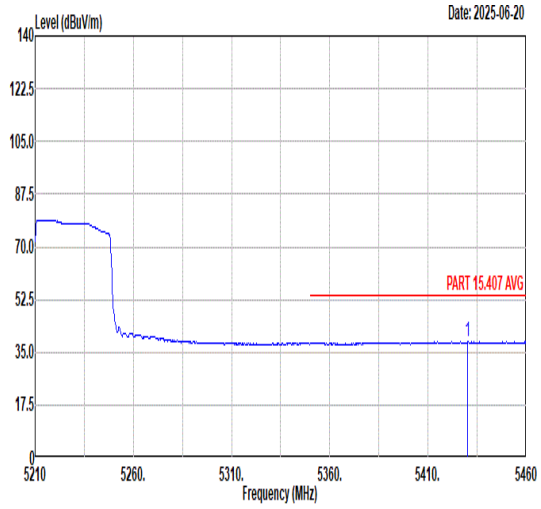
Summary of each worse mode

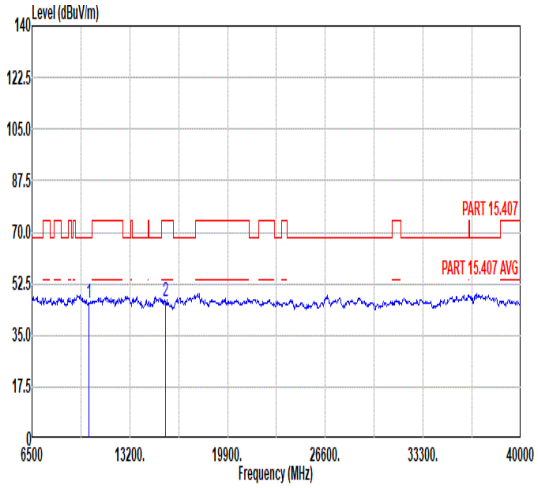
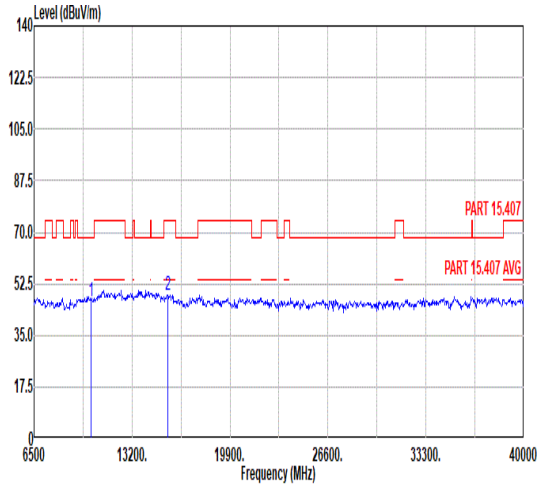
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
5	802.11ac VHT80	42	5149.94	48.92	54.00	-5.08	H	AVERAGE	Pass	Band Edge
	802.11ac VHT80	42	10420.00	47.54	68.30	-20.76	H	Peak	Pass	Harmonic

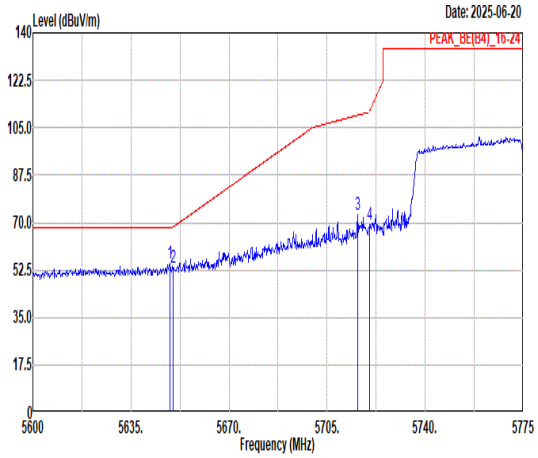
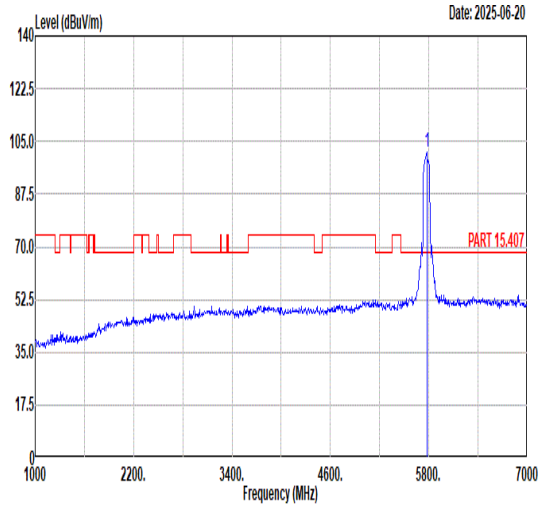
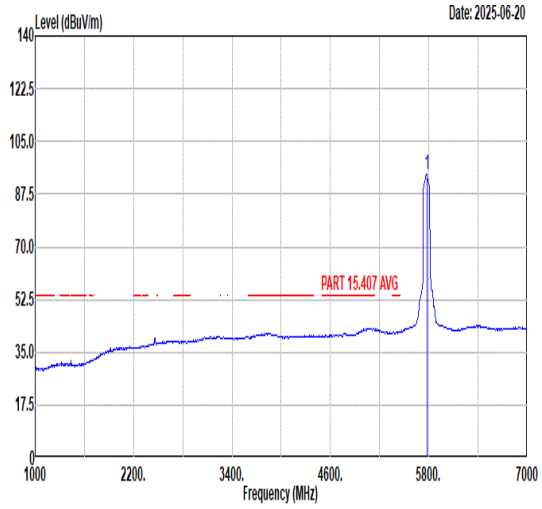
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.84 56.15 74.00 -17.85 46.98 33.99 7.92 32.74 103 62 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5210.00 93.77 ------ ------ 84.51 34.02 7.96 32.72 103 62 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.73 47.39 54.00 -6.61 38.22 33.99 7.92 32.74 103 62 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5210.00 87.01 ------ ------ 77.73 34.03 7.96 32.71 103 62 AVERAGE

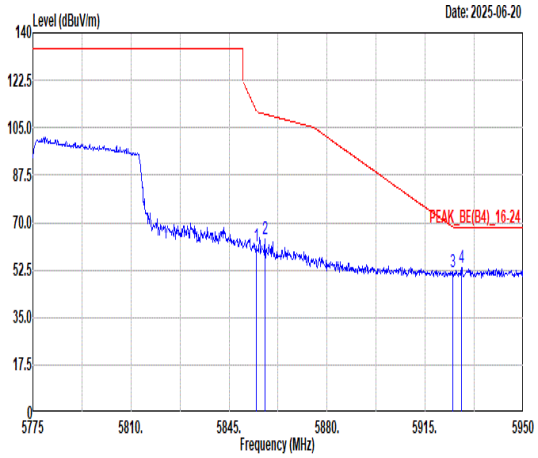
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5445.50 49.46 74.00 -24.54 39.48 34.17 8.43 32.62 103 62 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5410.75 38.83 54.00 -15.17 28.85 34.14 8.47 32.63 103 62 AVERAGE	Blank

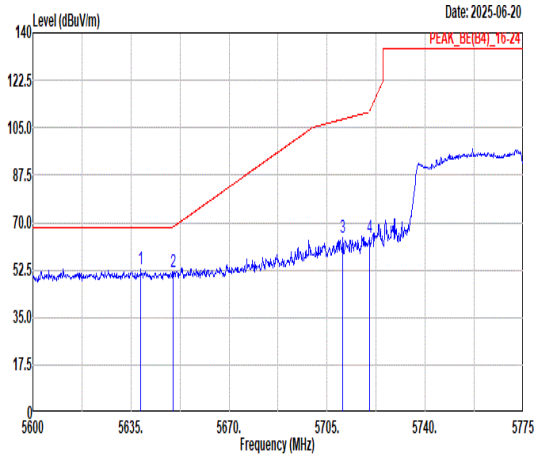
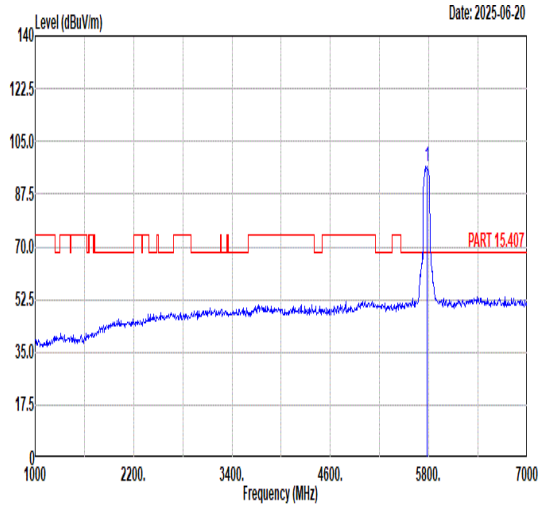
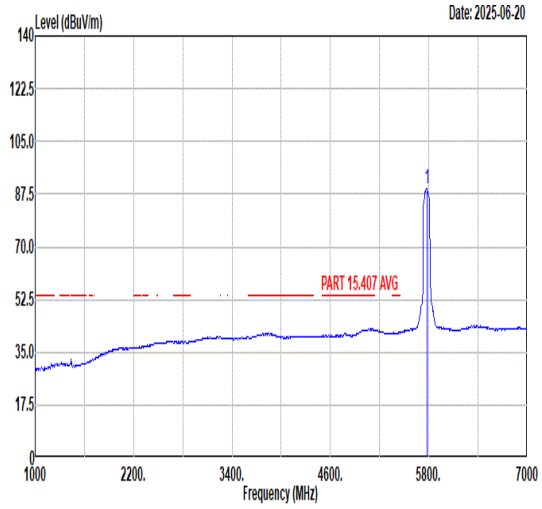
Mode	1	
	Band Edge - L	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	6	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5145.74 50.96 74.00 -23.04 41.79 33.99 7.92 32.74 103 348 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 86.13 ------ ------ 76.87 34.02 7.96 32.72 103 348 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 5149.73 41.99 54.00 -12.01 32.82 33.99 7.92 32.74 103 348 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 78.98 ------ ------ 69.70 34.03 7.96 32.71 103 348 AVERAGE

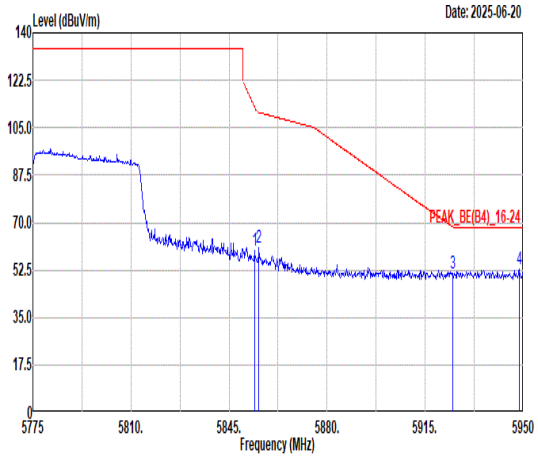
Mode	1	
	Band Edge - R	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	6	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5436.75 48.16 74.00 -25.84 38.18 34.16 8.44 32.62 103 348 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5430.25 38.55 54.00 -15.45 28.56 34.16 8.45 32.62 103 348 AVERAGE	Blank

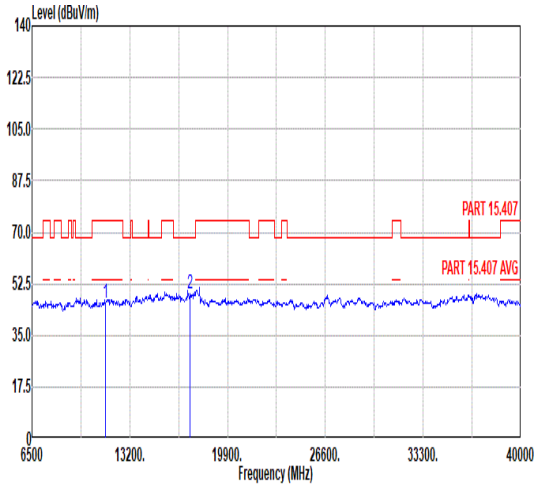
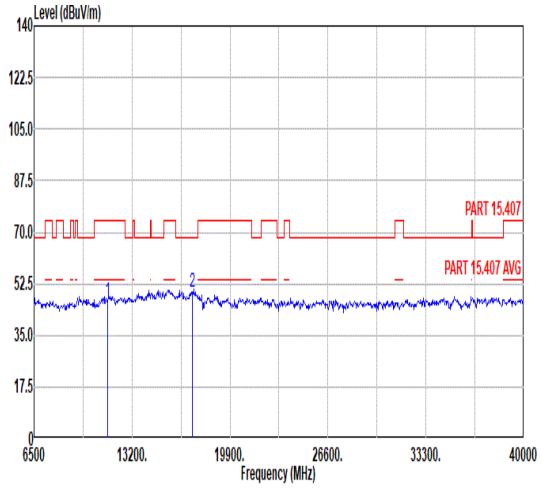
Mode	1	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_5210MHz	
ANT	6	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 10420.00 45.96 68.30 -22.34 55.08 37.25 13.28 59.65 -- -- Peak 2 15630.00 46.73 74.00 -27.27 48.71 40.28 15.83 58.09 -- -- 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 10420.00 46.42 68.30 -21.88 55.54 37.25 13.28 59.65 -- -- Peak 2 15630.00 48.42 74.00 -25.58 50.40 40.28 15.83 58.09 -- -- Peak

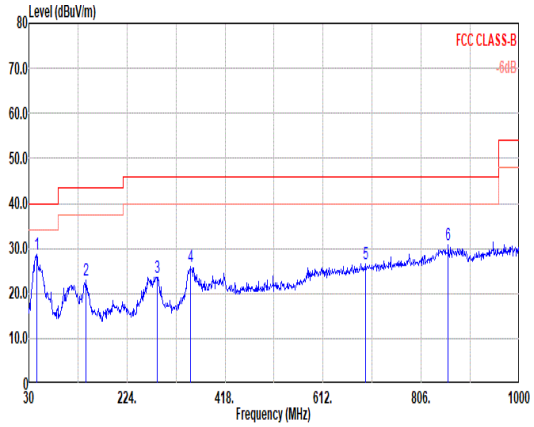
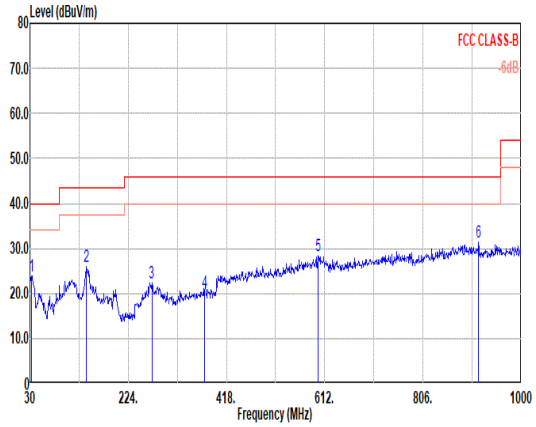
Mode	2	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5649.00 54.78 68.30 -13.52 41.36 35.40 10.33 32.31 102 73 PEAK 2 5650.05 53.29 68.34 -15.05 39.87 35.40 10.33 32.31 102 73 PEAK 3 5716.03 73.15 109.69 -36.54 59.58 35.55 10.37 32.35 102 73 PEAK 4 5720.23 69.02 111.31 -42.29 55.45 35.56 10.37 32.36 102 73 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 5775.00 101.34 ------ ------ 87.62 35.66 10.40 32.34 102 73 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 5775.00 94.07 ------ ------ 80.36 35.65 10.40 32.34 102 73 AVERAGE

Mode	2	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	6	
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 5854.63 61.23 111.65 -50.42 47.29 35.88 10.46 32.40 102 73 PEAK 2 5857.78 64.11 110.02 -45.91 50.16 35.89 10.47 32.41 102 73 PEAK 3 5924.80 52.01 68.35 -16.34 37.91 36.03 10.53 32.46 102 73 PEAK 4 5927.95 53.52 68.30 -14.78 39.42 36.03 10.53 32.46 102 73 PEAK	Blank

Mode	2	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	6	
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 5638.50 52.86 68.30 -15.44 39.46 35.37 10.33 32.30 100 306 PEAK 2 5650.05 51.99 68.34 -16.35 38.57 35.40 10.33 32.31 100 306 PEAK 3 5710.60 64.45 108.17 -43.72 50.89 35.54 10.37 32.35 100 306 PEAK 4 5720.05 64.52 110.91 -46.39 50.95 35.56 10.37 32.36 100 306 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 5775.00 96.69 ------ ------ 83.02 35.63 10.39 32.35 100 306 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 5775.00 89.50 ------ ------ 75.78 35.66 10.40 32.34 100 306 AVERAGE

Mode	2	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	6	
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 5854.10 59.47 112.85 -53.38 45.53 35.88 10.46 32.40 100 306 PEAK 2 5855.68 60.76 110.61 -49.85 46.82 35.88 10.46 32.40 100 306 PEAK 3 5924.98 51.33 68.22 -16.89 37.23 36.03 10.53 32.46 100 306 PEAK 4 5948.60 52.82 68.30 -15.48 38.71 36.05 10.55 32.49 100 306 PEAK	Blank

Mode	2	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	6	
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 11550.00 46.05 74.00 -27.95 51.50 38.44 13.95 57.84 -- -- Peak 2 17325.00 49.26 68.30 -19.04 47.98 42.41 16.86 57.99 -- -- 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 11550.00 46.67 74.00 -27.33 52.12 38.44 13.95 57.84 -- -- Peak 2 17325.00 49.49 68.30 -18.81 48.21 42.41 16.86 57.99 -- -- Peak

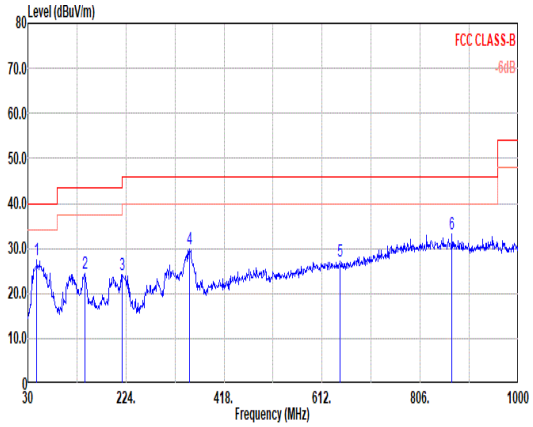
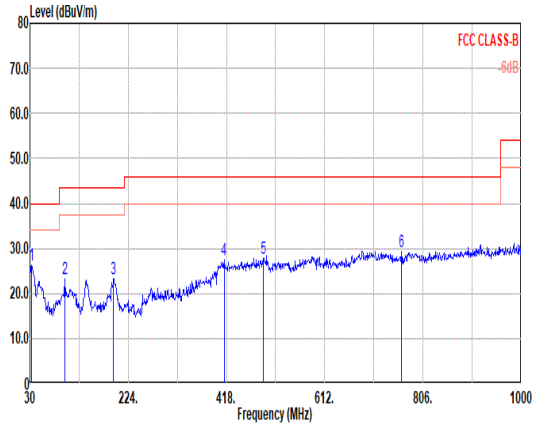
Mode	3	
	LF	
	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_LFMHz	
ANT	6	
Pol.	Horizontal	Vertical
Peak		

Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	45.52	28.64	40.00	-11.36	43.35	19.61	0.68	35.00	--	--	Peak
2	142.52	22.81	43.50	-20.69	37.93	18.35	1.25	34.72	--	--	Peak
3	283.17	23.60	46.00	-22.40	37.88	18.60	1.75	34.63	--	--	Peak
4	349.13	25.91	46.00	-20.09	38.37	20.20	1.94	34.60	--	--	Peak
5	695.42	26.71	46.00	-19.29	31.30	27.02	2.80	34.41	--	--	Peak
6	859.35	30.78	46.00	-15.22	33.20	28.77	3.11	34.30	--	--	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	33.88	23.98	40.00	-16.02	39.82	18.46	0.57	34.87	--	--	Peak
2	141.55	26.03	43.50	-17.47	41.23	18.27	1.25	34.72	--	--	Peak
3	270.56	22.31	46.00	-23.69	37.05	18.21	1.71	34.66	--	--	Peak
4	374.35	20.25	46.00	-25.75	31.98	20.80	2.02	34.55	--	--	Peak
5	598.42	28.24	46.00	-17.76	34.20	26.02	2.61	34.59	--	--	Peak
6	915.61	31.36	46.00	-14.64	33.50	28.98	3.18	34.30	--	--	Peak

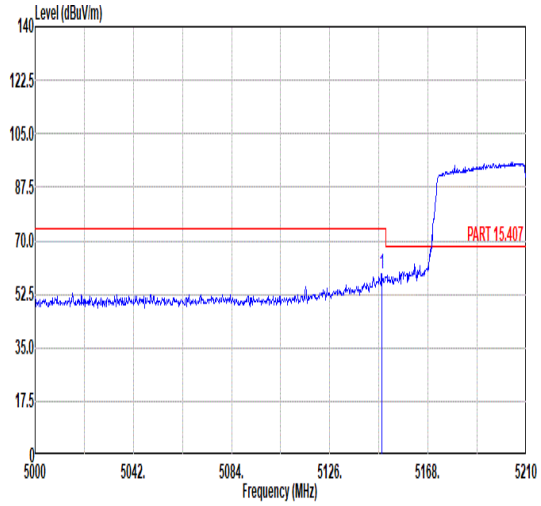
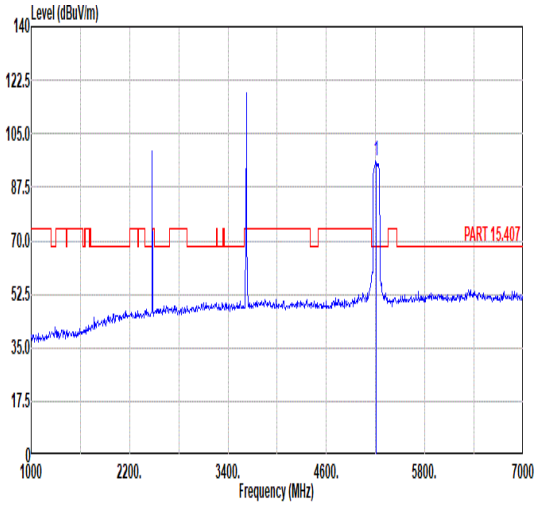
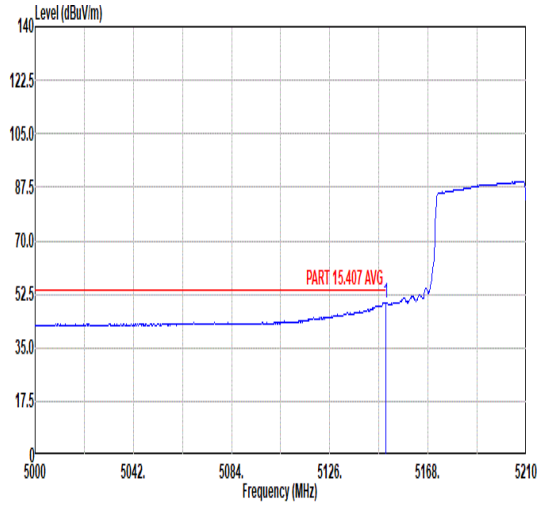
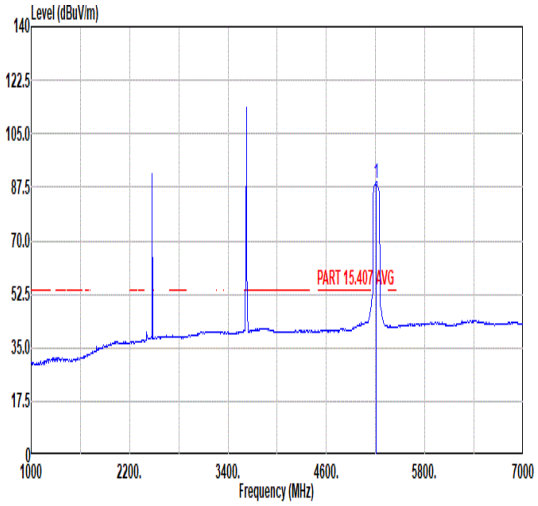
Mode	4	
	LF	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_LFMHz	
ANT	6	
Pol.	Horizontal	Vertical
Peak		

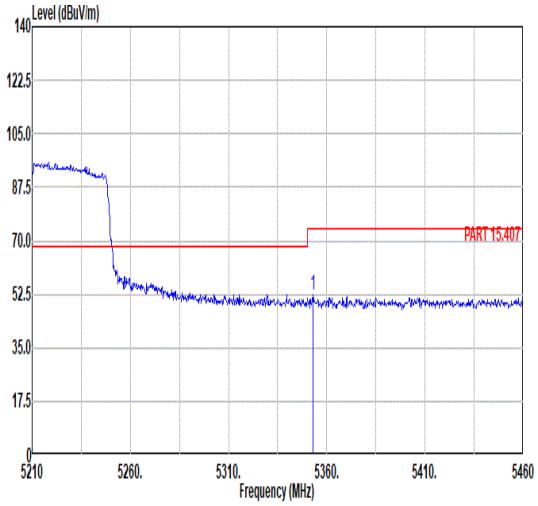
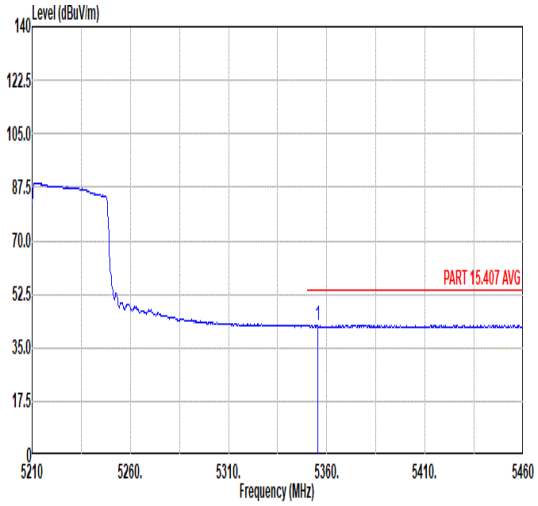
Horizontal:

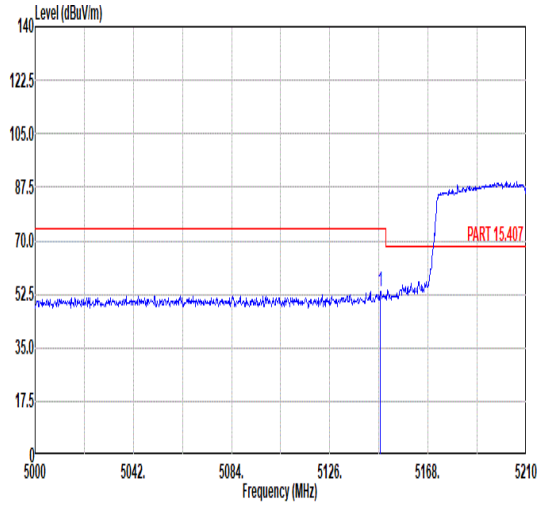
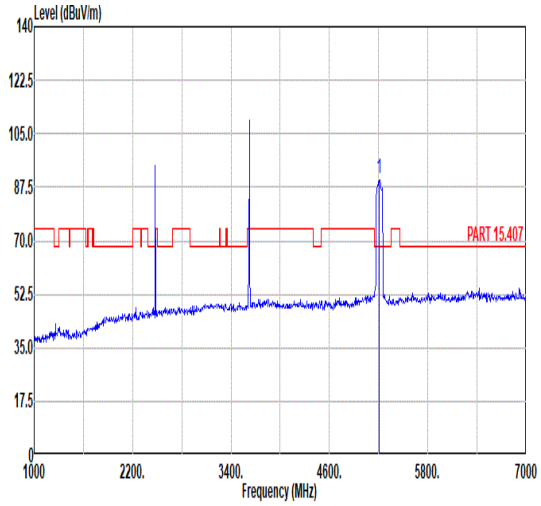
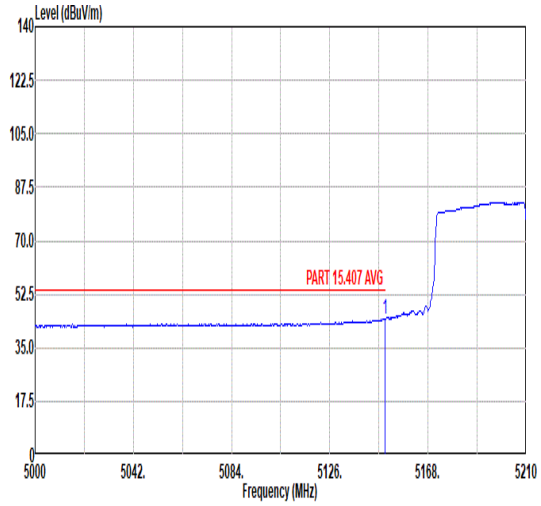
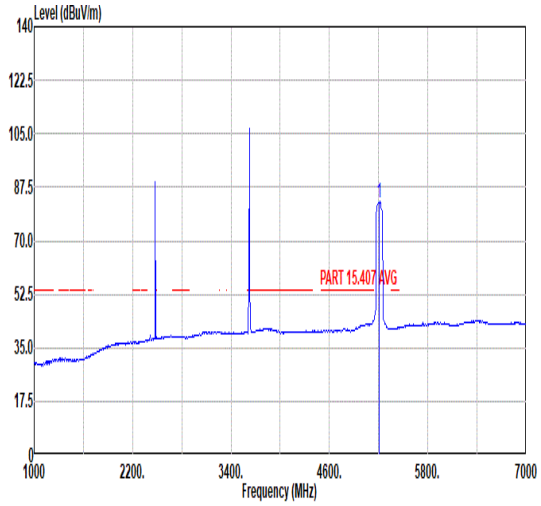
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	47.46	27.37	40.00	-12.63	42.06	19.62	0.69	35.00	--	--	Peak
2	143.49	24.41	43.50	-19.09	39.44	18.43	1.26	34.72	--	--	Peak
3	216.24	24.29	46.00	-21.71	40.95	16.51	1.53	34.70	--	--	Peak
4	349.13	29.89	46.00	-16.11	42.35	20.20	1.94	34.60	--	--	Peak
5	647.89	27.13	46.00	-18.87	32.69	26.24	2.70	34.50	--	--	Peak
6	869.05	33.12	46.00	-12.88	35.57	28.73	3.12	34.30	--	--	Peak

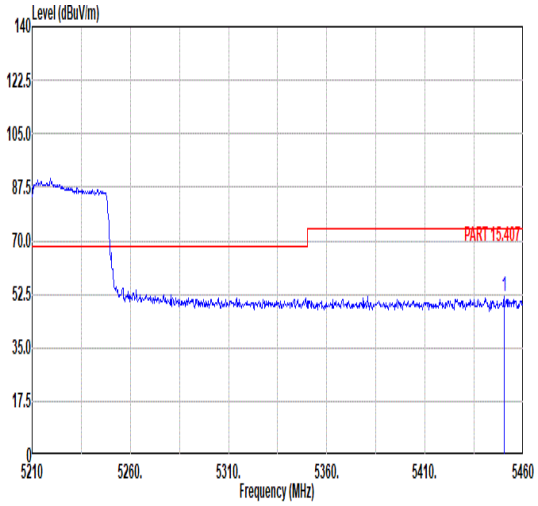
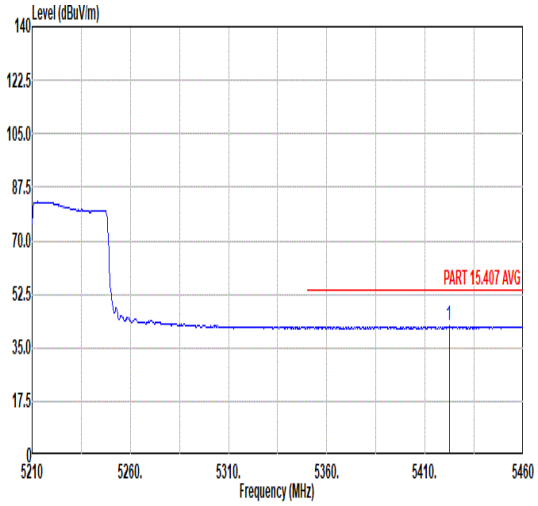
Vertical:

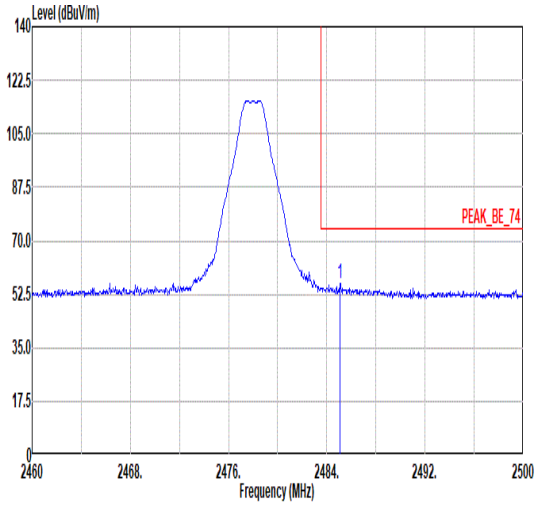
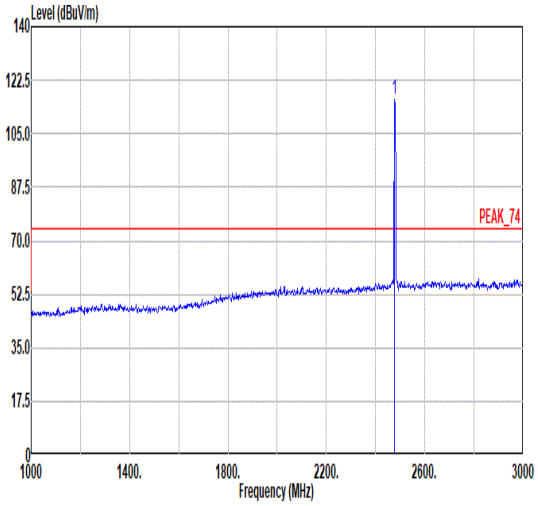
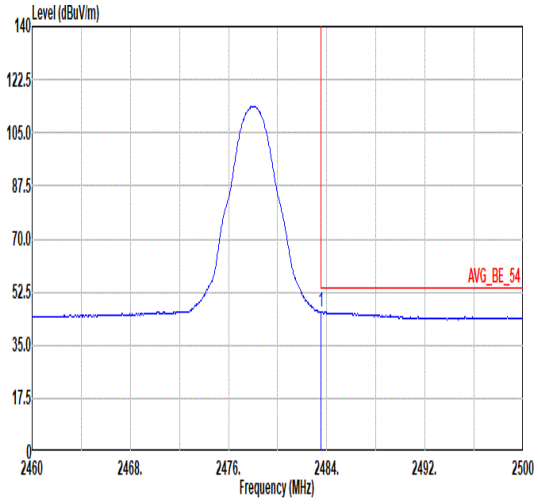
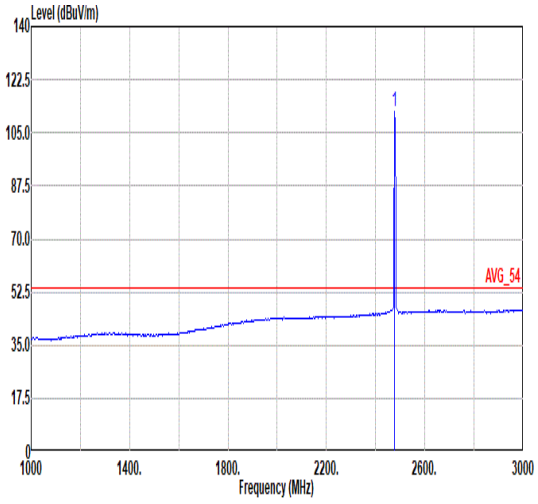
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	33.88	26.20	40.00	-13.80	42.04	18.46	0.57	34.87	--	--	Peak
2	98.87	23.34	43.50	-20.16	42.32	14.78	1.04	34.80	--	--	Peak
3	194.90	23.34	43.50	-20.16	40.29	16.28	1.47	34.70	--	--	Peak
4	413.15	27.36	46.00	-18.64	37.95	21.77	2.14	34.50	--	--	Peak
5	490.75	27.88	46.00	-18.12	36.80	23.24	2.34	34.50	--	--	Peak
6	763.32	29.36	46.00	-16.64	33.10	27.66	2.97	34.37	--	--	Peak

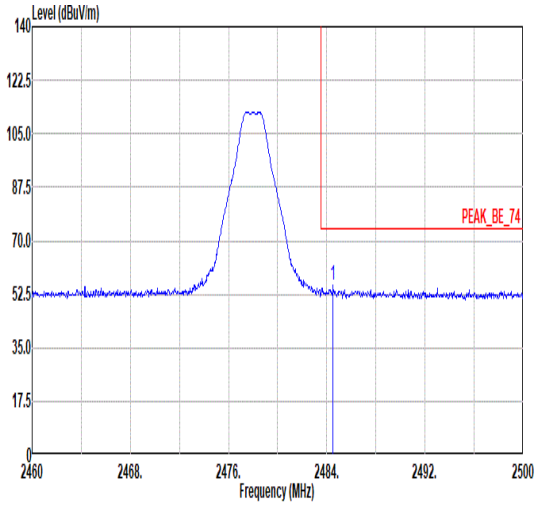
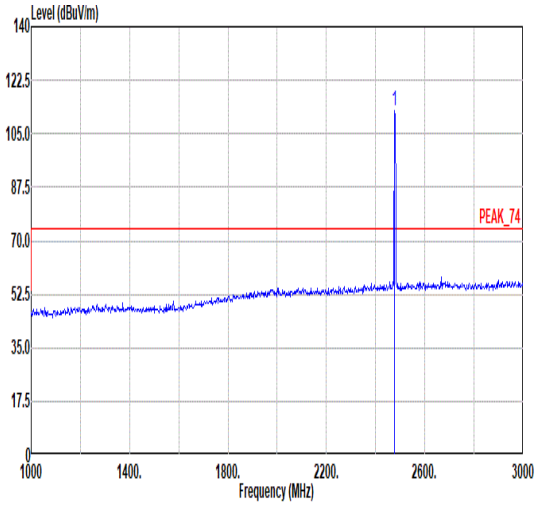
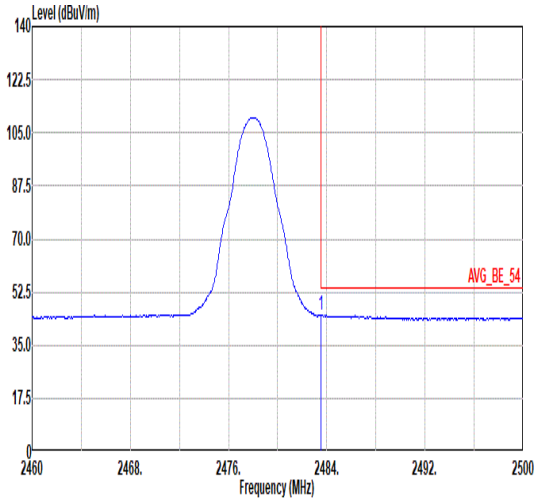
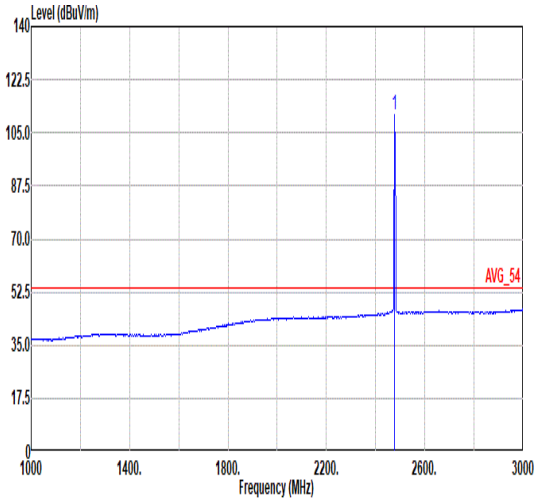
Mode	5	
	Band Edge - L	
	CO-TX	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5148.26 59.28 74.00 -14.72 46.62 34.95 9.96 32.25 100 59 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5210.00 96.24 ------ ------ 86.44 32.94 9.66 32.80 100 59 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5149.94 49.87 54.00 -4.13 37.21 34.95 9.96 32.25 100 59 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5210.00 88.74 ------ ------ 78.94 32.94 9.66 32.80 100 59 AVERAGE

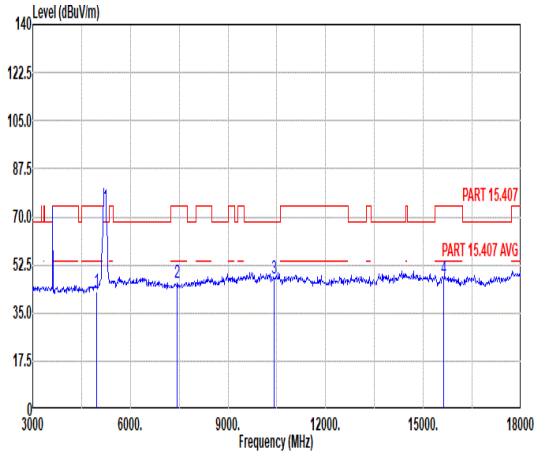
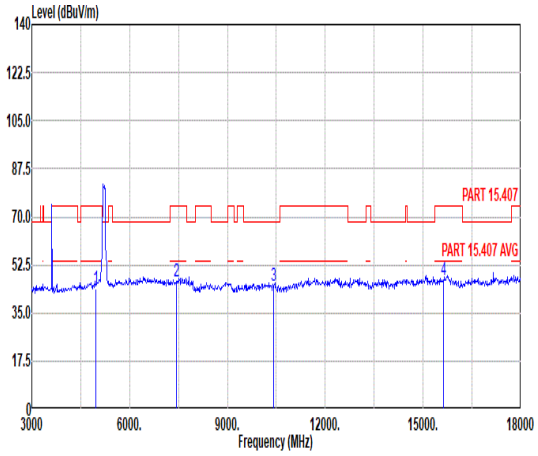
Mode	5	
	Band Edge - R	
	CO-TX	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5353.00 52.44 74.00 -21.56 39.19 35.20 10.22 32.17 100 59 PEAK	Blank
Avg	 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5355.50 42.36 54.00 -11.64 29.11 35.20 10.22 32.17 100 59 AVERAGE	Blank

Mode	5	
	Band Edge - L	
	CO-TX	
ANT	6	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5147.63 53.51 74.00 -20.49 40.86 34.95 9.95 32.25 100 312 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 90.58 ------ ------ 80.78 32.94 9.66 32.80 100 312 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 5149.52 44.64 54.00 -9.36 31.98 34.95 9.96 32.25 100 312 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 82.63 ------ ------ 72.83 32.94 9.66 32.80 100 312 AVERAGE

Mode	5	
	Band Edge - R	
	CO-TX	
ANT	6	
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 5450.25 51.80 74.00 -22.20 38.56 35.20 10.29 32.25 100 312 PEAK	Blank
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5422.25 42.04 54.00 -11.96 28.76 35.20 10.29 32.21 100 312 AVERAGE	Blank

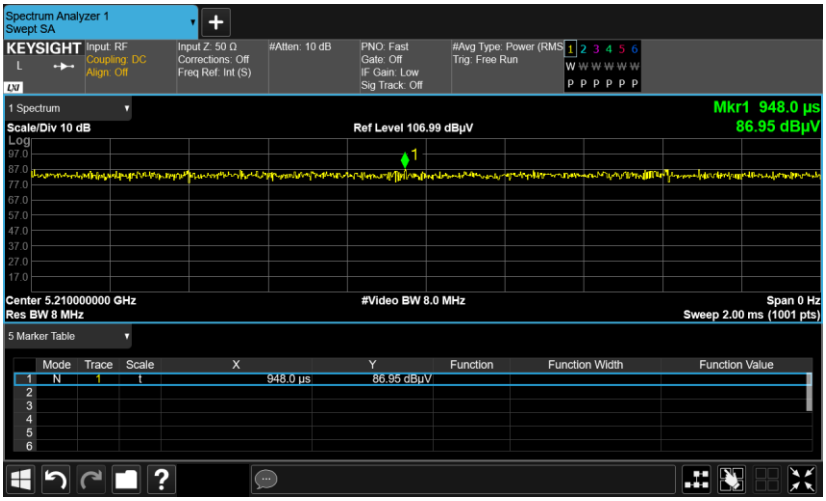
Mode	5	
	Band Edge	
	CO-TX	
ANT	6	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 2485.08 55.99 74.00 -18.01 48.95 32.06 8.44 33.46 100 297 Peak	 Freq Level Limit Line Margin 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 2478.00 116.24 ------ ------ 109.24 32.03 8.43 33.46 100 297 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 2483.52 46.05 54.00 -7.95 39.03 32.05 8.43 33.46 100 297 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 2478.00 112.07 ------ ------ 105.07 32.03 8.43 33.46 100 297 Average

Mode	5	
	Band Edge	
	CO-TX	
ANT	6	
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 2484.52 55.21 74.00 -18.79 48.18 32.05 8.44 33.46 395 240 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 2478.00 112.64 ------ ------ 105.64 32.03 8.43 33.46 395 240 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 2483.52 45.08 54.00 -8.92 38.06 32.05 8.43 33.46 395 240 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 2478.00 110.89 ------ ------ 103.89 32.03 8.43 33.46 395 240 Average

Mode	5	
	Harmonic	
	CO-TX	
ANT	6	
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 4956.00 42.92 74.00 -31.08 55.20 34.38 9.86 56.52 -- -- Peak 2 7434.00 46.22 74.00 -27.78 58.22 35.74 11.53 59.27 -- -- Peak 3 10420.00 47.54 68.30 -20.76 56.66 37.25 13.28 59.65 -- -- Peak 4 15630.00 47.80 74.00 -26.20 49.78 40.28 15.83 58.09 -- -- 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 4956.00 44.10 74.00 -29.90 56.38 34.38 9.86 56.52 -- -- Peak 2 7434.00 46.40 74.00 -27.60 58.40 35.74 11.53 59.27 -- -- Peak 3 10420.00 44.77 68.30 -23.53 53.89 37.25 13.28 59.65 -- -- Peak 4 15630.00 47.24 74.00 -26.76 49.22 40.28 15.83 58.09 -- -- Peak

Note: For all the above plots, the frequency points over limit line are fundamental signals, which can be ignored.

Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11ac VHT80	100	-	-	10Hz

802.11ac VHT80