FCC RADIO TEST REPORT

FCC ID	:	**TVE-240703**
Equipment	:	**Secured Network Extension Device**
Brand Name	:	**FORTINET**
Model Name	:	**FortiExtender 511G-WiFixxxxxxxxxx, FORTIEXTENDER-511G-WiFixxxxxxxxxx, FEX-511G-WiFixxxxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)**
Marketing Name	:	**FortiExtender 511G-WiFi**
Applicant	:	**Fortinet, Inc. 909 Kifer Road, Sunnyvale, CA. 94086 USA**
Manufacturer	:	**Fortinet, Inc. 909 Kifer Road, Sunnyvale, CA. 94086 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Sep. 02, 2024 and testing was performed from Sep. 12, 2024 to Nov. 13, 2024. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR490210D	01	Initial issue of report	Dec. 03, 2024
FR490210D	02	Revise Appendix C This report is an updated version, replacing the report issued on Dec. 03, 2024.	Dec. 06, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	3.43 dB under the limit at 5926.75 MHz
3.5	15.207	AC Conducted Emission	Pass	13.95 dB under the limit at 0.40 MHz
3.6	15.203	Antenna Requirement	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.

Reviewed by: Sheng Kuo

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs WCDMA/LTE/5G NR, Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/VHT/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and GNSS. **Antenna Type** WWAN: Dipole Antenna WLAN <Ant. 1>: Dipole Antenna <Ant. 2>: Dipole Antenna Bluetooth-LE: PCB Antenna GPS / Glonass / BDS / Galileo: Dipole Antenna

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 1: 1.64 Ant. 2: 1.64

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = 10 log(NANT/NSS) dB.

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	1.64	1.64	1.64	4.65	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT1}= 1.64dBi; G_{ANT2}=1.64dBi

Directional gain of power measurement = max(1.64, 1.64) + 0 = 1.64 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (1.64 dBi / 20) + 10^ (1.64 dBi / 20)] ^ 2 } / 2 }

= 4.65 dBi

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

<TXBF Modes>

The EUT supports beamforming modes , then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

Directional gain = GANT + 10 log(NANT/NSS) dBi,

where NSS = the number of independent spatial streams of data and GANT is the antenna gain in dBi

The directional gain “DG” is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	1.64	1.64	4.65	4.65	0.00	0.00

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (1.64 dBi / 20) + 10^ (1.64 dBi / 20)] ^ 2 } / 2 }

= 4.65 dBi

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH20-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two config. (Ant. 0° and Ant. 90°), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11ac mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

TXBF Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Remark:

1. The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.
2. The conducted power worst case were Non Beamforming, other test items only test worst case and documented.

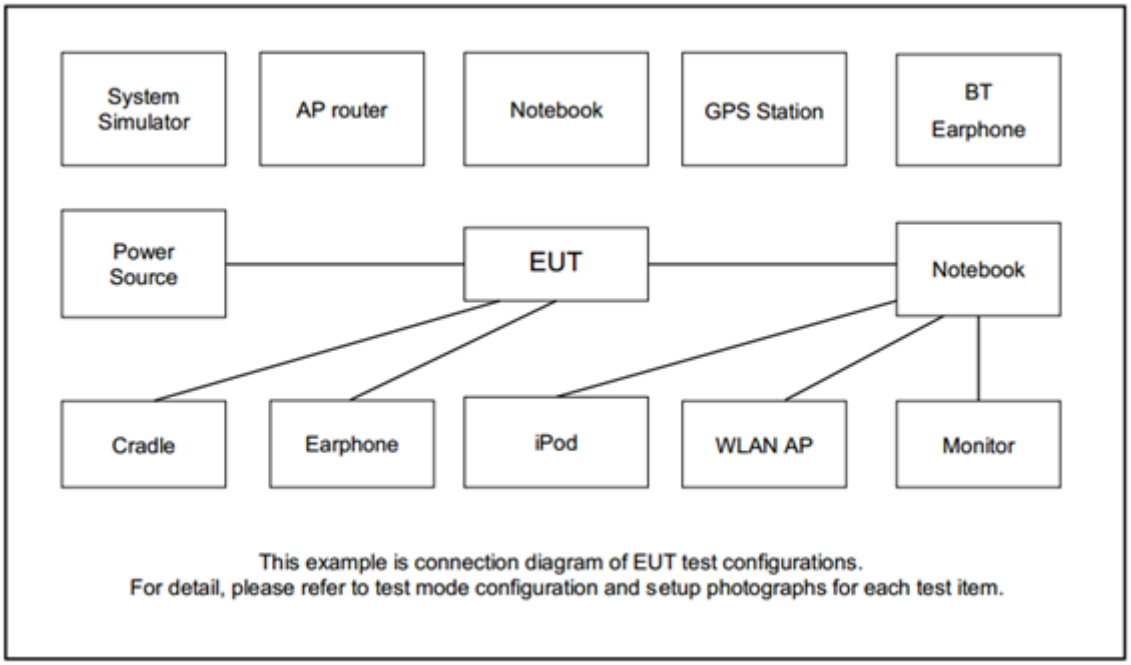
Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth-LE Link + Console with Notebook + Data Link with USB Flash Drive + SFP Port load + Adapter + WLAN (5GHz) Link + LAN port 2 & 3 Loop back + LAN port 1 Link with Notebook + LAN port 4 Link with Notebook + WAN Port Link with Notebook Mode 2 : Bluetooth-LE Link + Console with Notebook + Data Link with USB Flash Drive + SFP Port load + PoE Adapter (LAN Port 4) + WLAN (5GHz) Link + LAN port 2 & 3 Loop back + LAN port 1 Link with Notebook + LAN port 4 Link with Notebook + SIM 1 + WAN Port Link with Notebook
Remark: 1. The worst case of Conducted Emission is mode 2; only the test data of it was reported. 2. Data Link with USB Flash Drive means data application transferred mode between EUT and USB Flash Drive.	

Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

Ch. #		Band IV：5725-5850 MHz		
		802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00	N/A	Unshielded,1.8m
2.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	PC	MSI	Aegis-B918	FCC DoC	N/A	Unshielded, 1.8m
4.	Mobile Phone	Samsung	GT-N7000	A3LSMA730F	N/A	N/A
5.	USB Flash Disk	Kingston	DTSE9	FCC DoC	N/A	N/A
6.	POE Adapter	Mircosmei	PD-9001GR/AT/AC	FCC DoC	N/A	N/A
7.	Adapter	APD	WA-36W12R	N/A	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4.0.211.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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 4.2 dB and 10 dB attenuator.

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

= 4.2 + 10 = 14.2 (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.

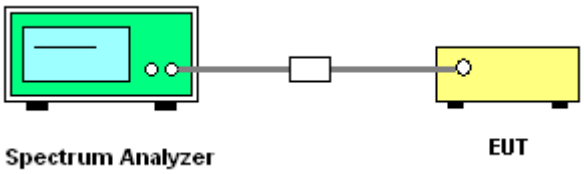
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

<CDD Modes>

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

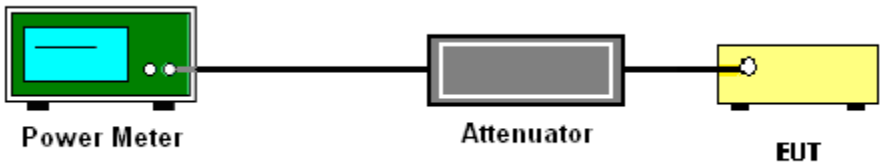
<TXBF Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

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

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

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

<CDD Modes>

 # Method SA-2 #

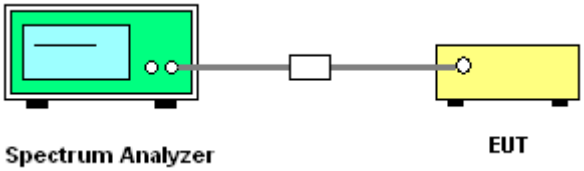
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300kHz.
- Set VBW ≥ 1 MHz.
- Add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT is 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
   Method (c): Measure and add 10 log(N_{ANT}) dB.
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 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.

(2) Unwanted spurious emissions falls 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

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

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

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

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

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

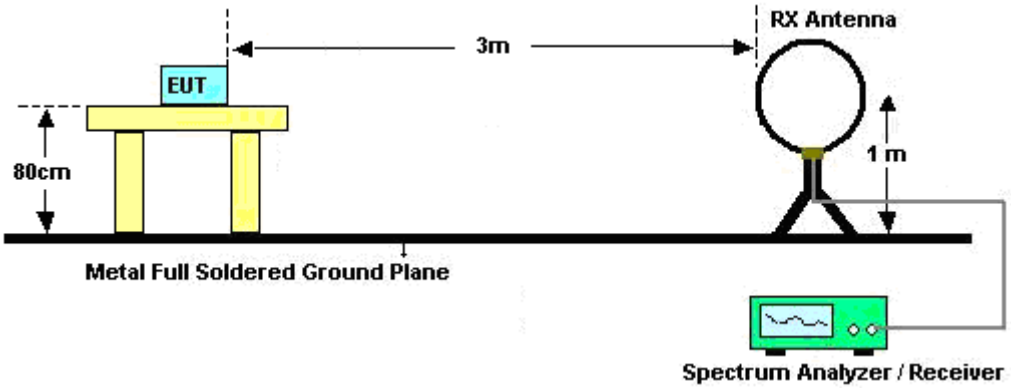
   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is 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.

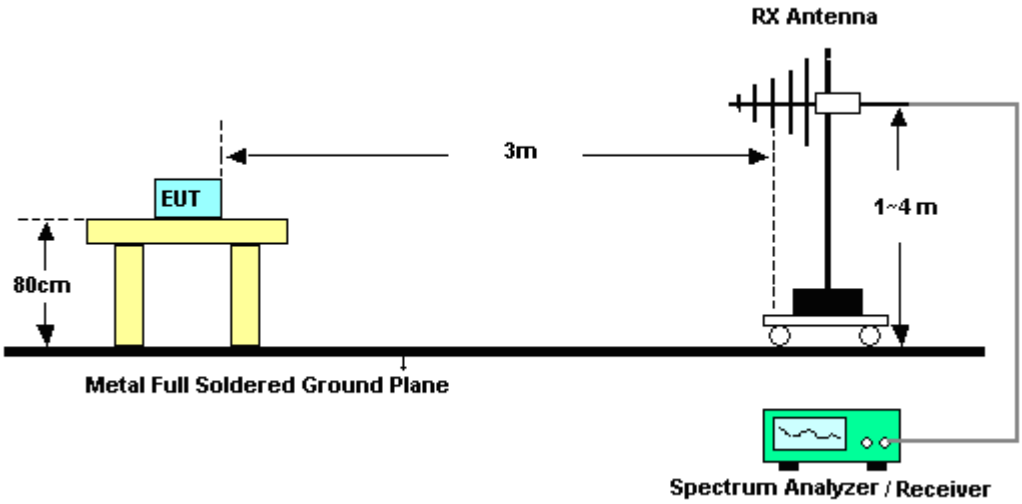
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.
   When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

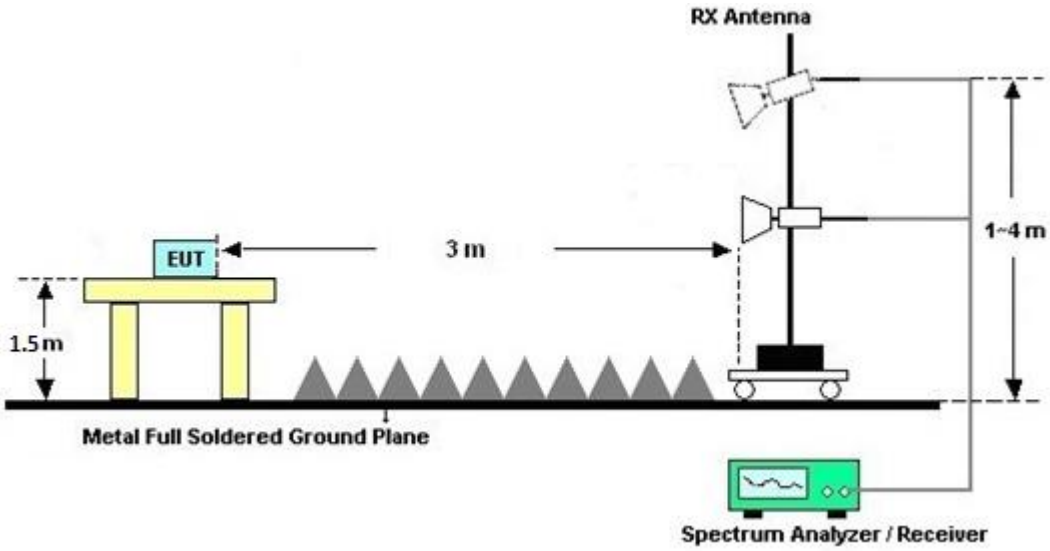
For radiated emissions below 30MHz



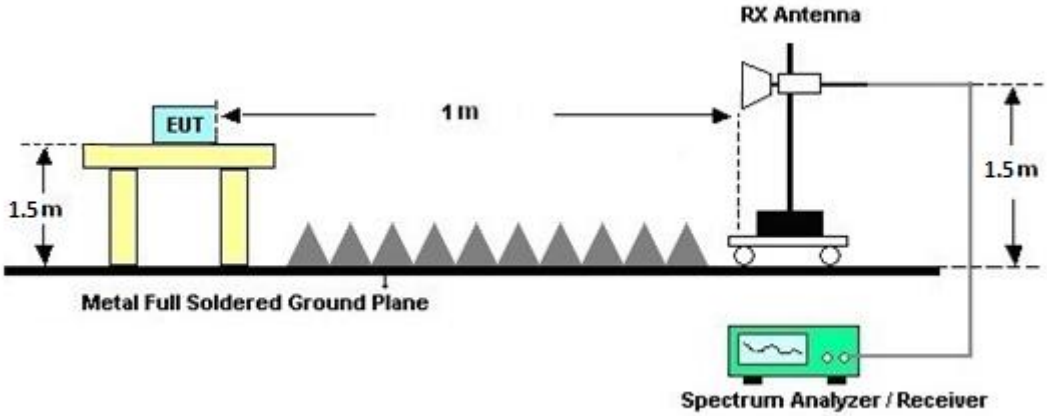
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (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.

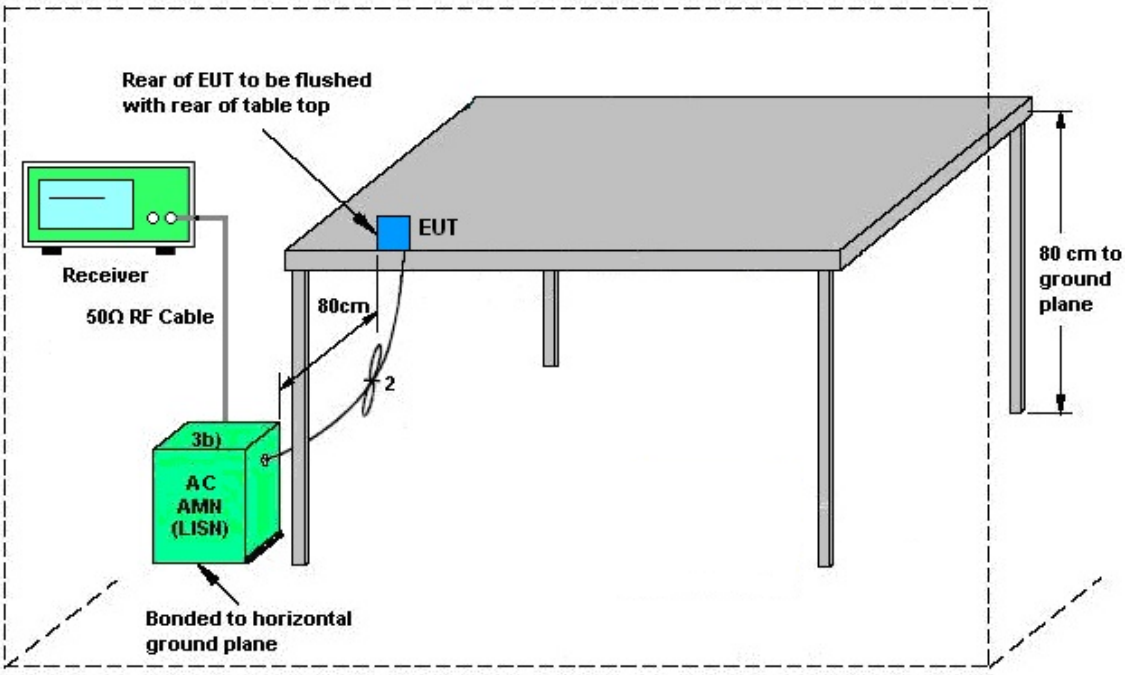
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

Antenna permanently attached.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038B	MY62210111	N/A	Sep. 03, 2024	Sep. 20, 2024~ Nov. 13, 2024	Sep. 02, 2025	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Sep. 20, 2024~ Nov. 13, 2024	Aug. 28, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Sep. 20, 2024~ Nov. 13, 2024	May 26, 2025	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 20, 2024~ Nov. 13, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 20, 2024~ Nov. 13, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 20, 2024~ Nov. 13, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	Sep. 20, 2024~ Nov. 13, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	Sep. 20, 2024~ Oct. 09, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 04, 2024	Oct. 10, 2024~ Nov. 13, 2024	Feb. 03, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	Sep. 20, 2024~ Oct. 09, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Jul. 29, 2024	Oct. 10, 2024 ~ Oct. 31, 2024	Jul. 28, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 01, 2024	Nov. 01, 2024~ Nov. 13, 2024	Oct. 31, 2025	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz-40GHz	Jun. 24, 2024	Sep. 20, 2024~ Nov. 13, 2024	Jun. 23, 2025	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	Sep. 20, 2024~ Nov. 13, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 13, 2023	Sep. 20, 2024~ Nov. 11, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 12, 2024	Nov. 12, 2024~ Nov. 13, 2024	Nov. 11, 2025	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 17, 2024	Sep. 20, 2024~ Nov. 13, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	Sep. 20, 2024~ Nov. 13, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Sep. 20, 2024~ Nov. 13, 2024	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Sep. 12, 2024~ Oct. 25, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Sep. 12, 2024~ Oct. 25, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Sep. 12, 2024~ Oct. 22, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Jan. 24, 2024	Oct. 24, 2024~ Oct. 25, 2024	Jan. 23, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Sep. 12, 2024~ Oct. 25, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Sep. 12, 2024~ Oct. 25, 2024	N/A	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 21, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Oct. 21, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Oct. 21, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Oct. 21, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Oct. 21, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Oct. 21, 2024	Jul. 29, 2025	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Oct. 21, 2024	Mar. 13, 2025	Conduction (CO05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.7 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kevin Xiao	Temperature:	21~25	°C
Test Date:	2024/9/12~2024/10/25	Relative Humidity:	51~54	%

<CDD Mode>

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

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	19.08	28.05	35.16	42.14	15.79	16.30	0.5	Pass
11a	6Mbps	2	157	5785	24.79	32.09	38.78	45.77	16.30	15.70	0.5	Pass
11a	6Mbps	2	165	5825	30.69	32.03	44.04	45.37	16.29	16.28	0.5	Pass

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TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	26.80	26.40	29.61	30.00		1.64		Pass
11a	6Mbps	2	157	5785	27.00	26.30	29.67	30.00		1.64		Pass
11a	6Mbps	2	165	5825	27.10	26.40	29.77	30.00		1.64		Pass
HT20	MCS0	2	149	5745	26.60	26.90	29.76	30.00		1.64		Pass
HT20	MCS0	2	157	5785	26.80	26.00	29.43	30.00		1.64		Pass
HT20	MCS0	2	165	5825	27.20	26.30	29.78	30.00		1.64		Pass
HT40	MCS0	2	151	5755	22.20	21.90	25.06	30.00		1.64		Pass
HT40	MCS0	2	159	5795	24.10	23.20	26.68	30.00		1.64		Pass
VHT20	MCS0	2	149	5745	26.50	26.80	29.66	30.00		1.64		Pass
VHT20	MCS0	2	157	5785	26.70	25.90	29.33	30.00		1.64		Pass
VHT20	MCS0	2	165	5825	27.10	26.20	29.68	30.00		1.64		Pass
VHT40	MCS0	2	151	5755	22.10	21.80	24.96	30.00		1.64		Pass
VHT40	MCS0	2	159	5795	24.00	23.10	26.58	30.00		1.64		Pass
VHT80	MCS0	2	155	5775	21.30	20.60	23.97	30.00		1.64		Pass

Report Number : FR490210D

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.25	0.25	2.22		12.29	11.69	15.30	30.00		4.65		Pass
11a	6Mbps	2	157	5785	0.25	0.25	2.22		12.43	11.51	15.44	30.00		4.65		Pass
11a	6Mbps	2	165	5825	0.25	0.25	2.22		12.86	11.86	15.87	30.00		4.65		Pass
HT20	MCS0	2	149	5745	0.97	0.94	2.22		11.72	11.84	14.85	30.00		4.65		Pass
HT20	MCS0	2	157	5785	0.97	0.94	2.22		10.70	10.83	13.84	30.00		4.65		Pass
HT20	MCS0	2	165	5825	0.97	0.94	2.22		12.05	11.72	15.06	30.00		4.65		Pass
HT40	MCS0	2	151	5755	0.94	0.97	2.22		4.22	4.03	7.23	30.00		4.65		Pass
HT40	MCS0	2	159	5795	0.94	0.97	2.22		5.56	5.08	8.57	30.00		4.65		Pass
VHT80	MCS0	2	155	5775	0.97	0.97	2.22		0.25	-0.29	3.26	30.00		4.65		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

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

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.69	32.14	40.59	49.93	15.75	18.99	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.77	29.70	36.67	48.36	18.77	18.65	0.5	Pass
HE20	MCS0	2	165	5825	Full	30.17	32.55	48.03	49.82	18.79	18.59	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.85	37.93	41.81	41.84	36.69	37.48	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.92	37.95	41.74	41.33	37.75	36.58	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.13	77.09	82.43	82.43	74.91	75.10	0.5	Pass

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TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	26.70	27.00	29.86	30.00		1.64		Pass
HE20	MCS0	2	157	5785	Full	26.90	26.10	29.53	30.00		1.64		Pass
HE20	MCS0	2	165	5825	Full	27.30	26.40	29.88	30.00		1.64		Pass
HE40	MCS0	2	151	5755	Full	22.80	22.50	25.66	30.00		1.64		Pass
HE40	MCS0	2	159	5795	Full	23.70	22.80	26.28	30.00		1.64		Pass
HE80	MCS0	2	155	5775	Full	21.40	20.70	24.07	30.00		1.64		Pass

Report Number : FR490210D

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.97	0.94	2.22		11.47	11.41	14.48	30.00		4.65		Pass
HE20	MCS0	2	157	5785	Full	0.97	0.94	2.22		11.37	10.54	14.38	30.00		4.65		Pass
HE20	MCS0	2	165	5825	Full	0.97	0.94	2.22		12.25	11.22	15.26	30.00		4.65		Pass
HE40	MCS0	2	151	5755	Full	0.94	0.97	2.22		4.01	4.02	7.03	30.00		4.65		Pass
HE40	MCS0	2	159	5795	Full	0.94	0.97	2.22		4.58	4.00	7.59	30.00		4.65		Pass
HE80	MCS0	2	155	5775	Full	0.97	0.97	2.22		0.08	-0.30	3.09	30.00		4.65		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

Report Number : FR490210D

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	149	5745	26.20	26.70	29.47	30.00		4.65		Pass
HT20	MCS0	2	157	5785	26.30	25.70	29.02	30.00		4.65		Pass
HT20	MCS0	2	165	5825	27.20	26.10	29.70	30.00		4.65		Pass
HT40	MCS0	2	151	5755	22.20	21.80	25.01	30.00		4.65		Pass
HT40	MCS0	2	159	5795	24.10	23.10	26.64	30.00		4.65		Pass
VHT20	MCS0	2	149	5745	26.10	26.60	29.37	30.00		4.65		Pass
VHT20	MCS0	2	157	5785	26.20	25.60	28.92	30.00		4.65		Pass
VHT20	MCS0	2	165	5825	27.10	26.00	29.60	30.00		4.65		Pass
VHT40	MCS0	2	151	5755	22.10	21.70	24.91	30.00		4.65		Pass
VHT40	MCS0	2	159	5795	24.00	23.00	26.54	30.00		4.65		Pass
VHT80	MCS0	2	155	5775	21.30	20.40	23.88	30.00		4.65		Pass

Report Number : FR490210D

TEST RESULTS DATA
Average Power Table

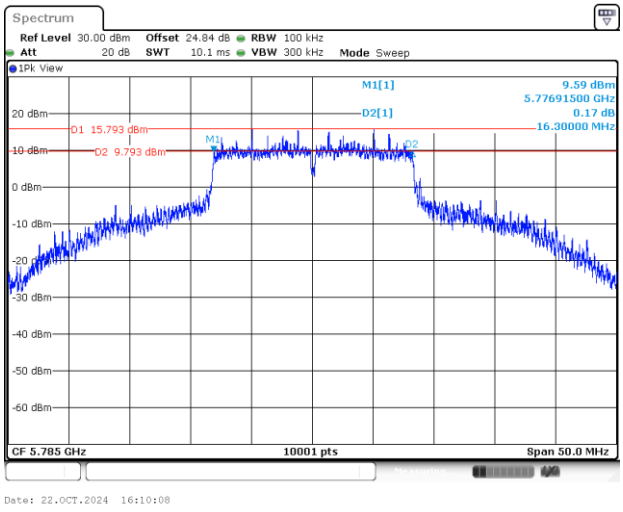
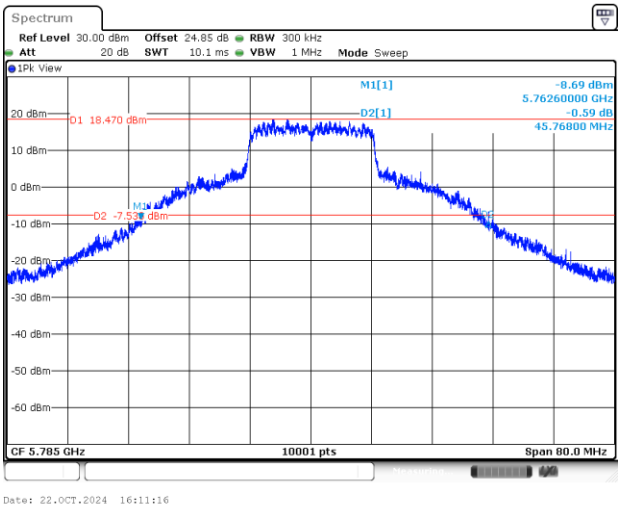
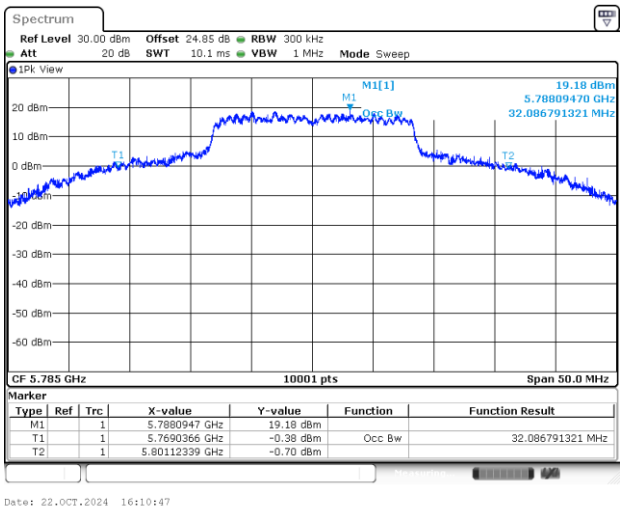
U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	26.30	26.80	29.57	30.00		4.65		Pass
HE20	MCS0	2	157	5785	Full	26.40	25.80	29.12	30.00		4.65		Pass
HE20	MCS0	2	165	5825	Full	27.30	26.20	29.80	30.00		4.65		Pass
HE40	MCS0	2	151	5755	Full	22.40	22.00	25.21	30.00		4.65		Pass
HE40	MCS0	2	159	5795	Full	23.30	22.40	25.88	30.00		4.65		Pass
HE80	MCS0	2	155	5775	Full	21.40	20.50	23.98	30.00		4.65		Pass

Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<CDD Mode>

MIMO <Ant. 1+2>

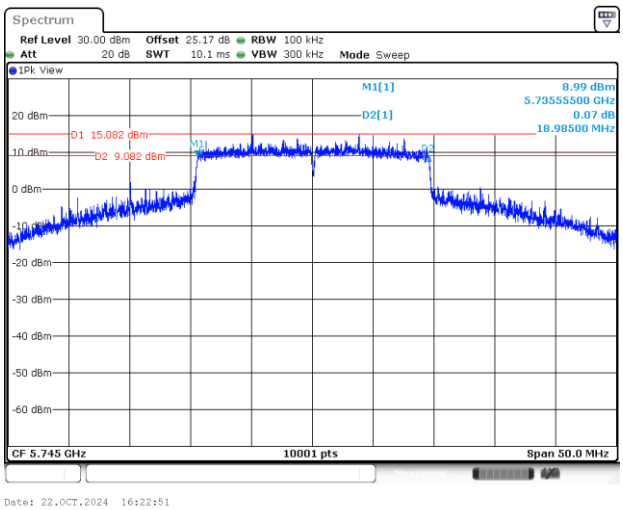
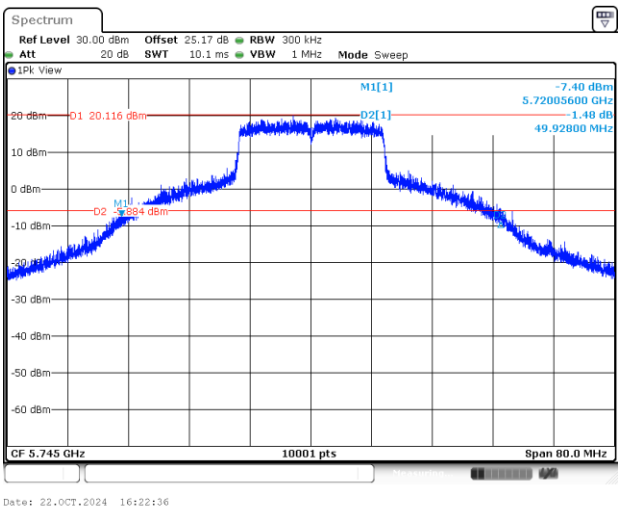
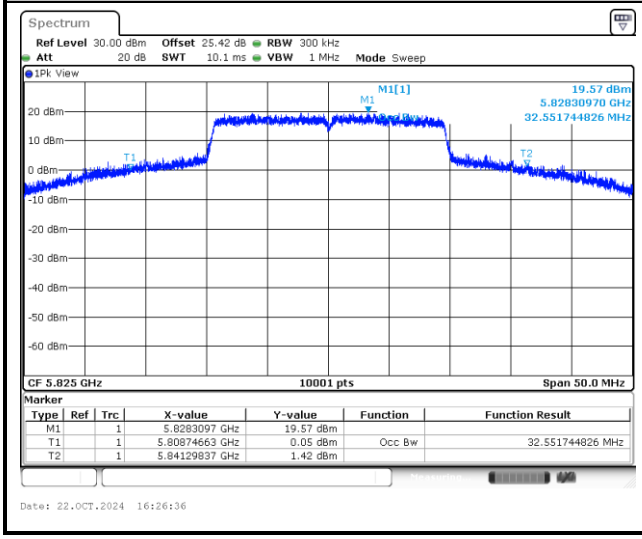
<802.11a>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

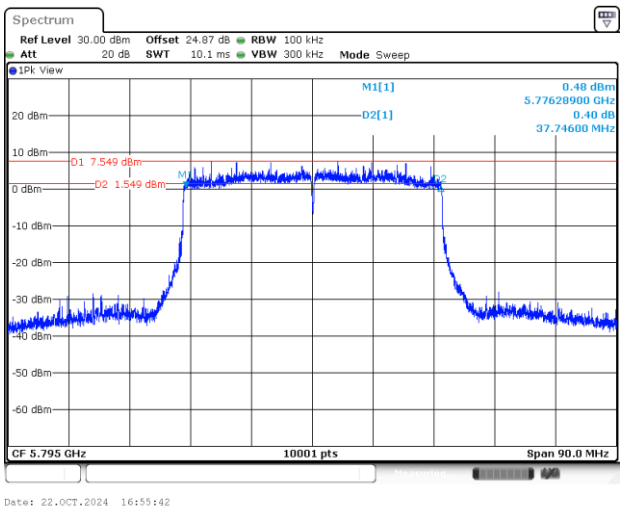
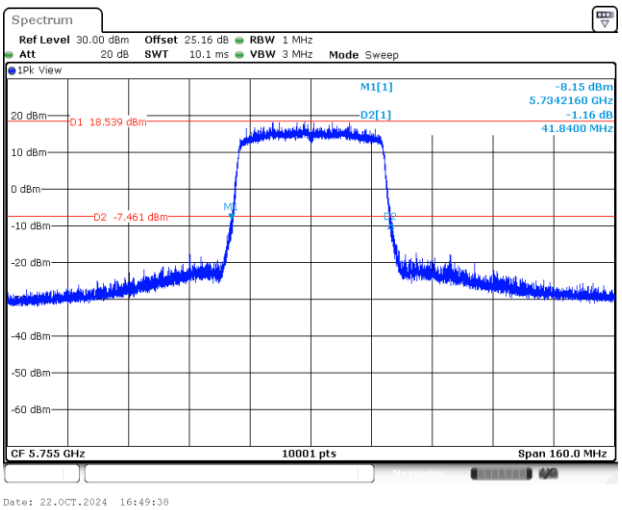
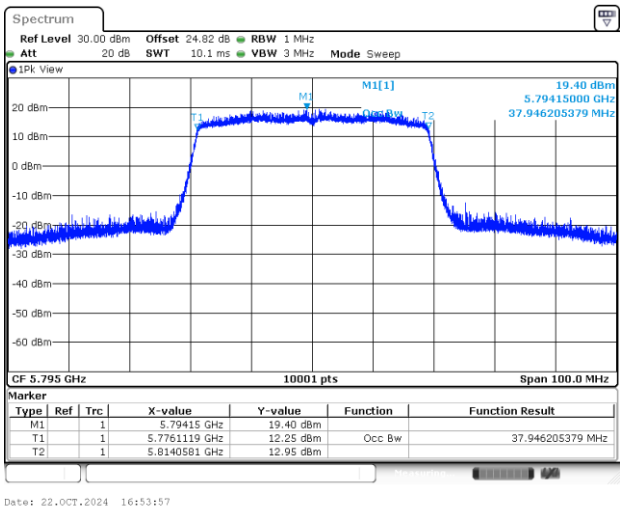
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7880947 GHz	19.18 dBm		
T1		1	5.7690366 GHz	-0.38 dBm	Occ Bw	32.086791321 MHz
T2		1	5.80112339 GHz	-0.70 dBm		

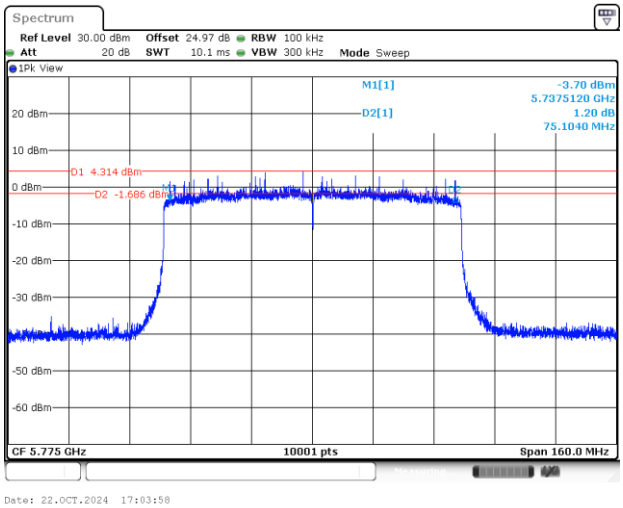
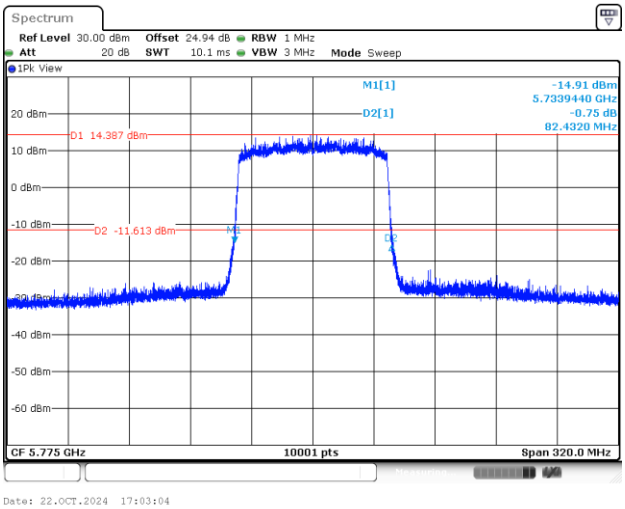
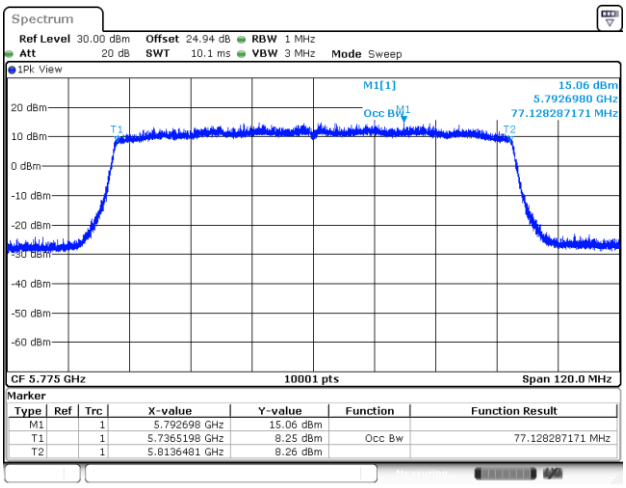
<802.11ax HE20>

6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ax HE40>

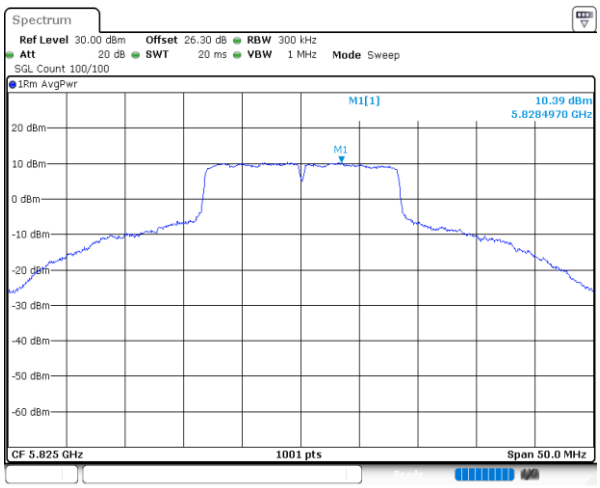
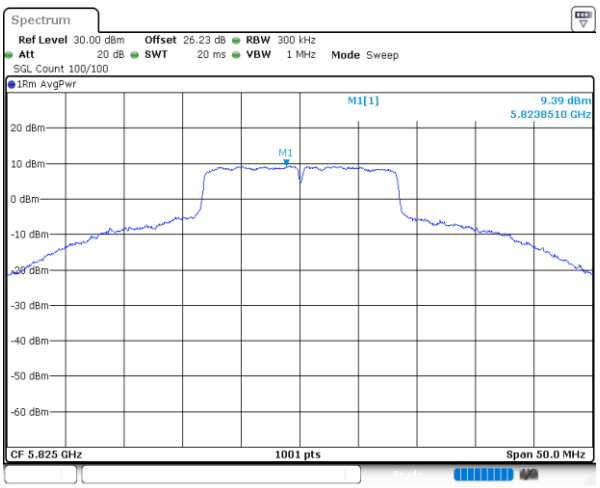
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ax HE80>

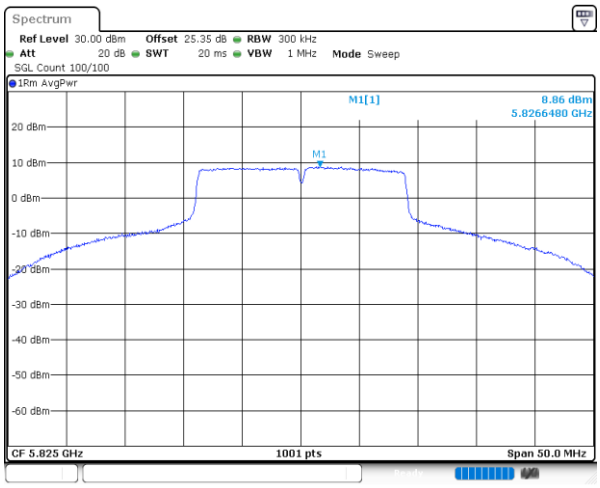
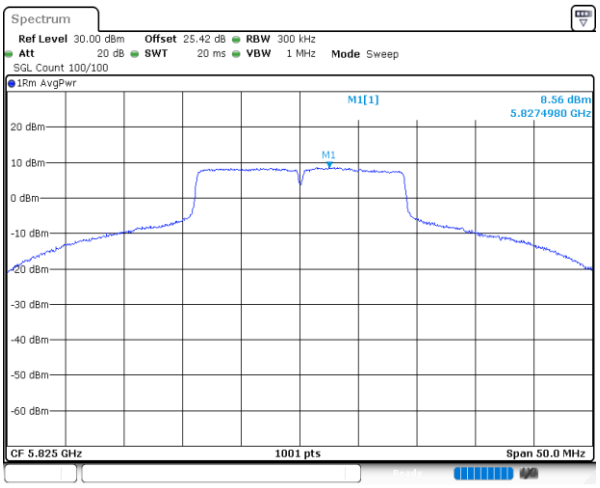
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

Test Result of Power Spectral Density

<802.11a>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 1	MIMO Ant. 2
	

<802.11n HT20>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 1	MIMO Ant. 2
	

<802.11n HT40>

Maximum Power Density Plot (dBm/300kHz)	
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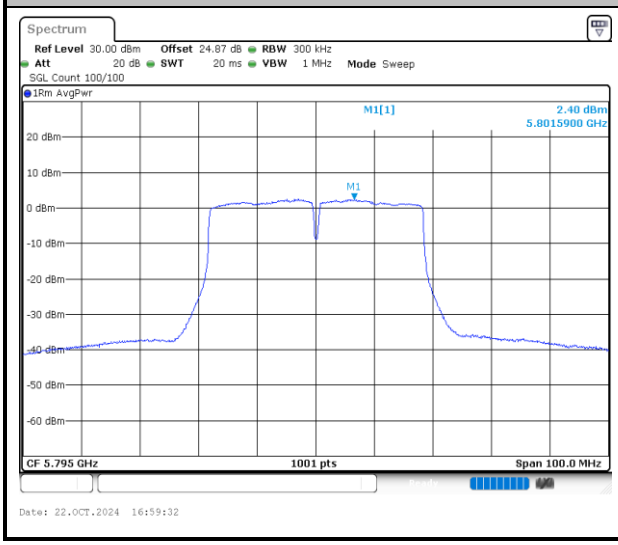
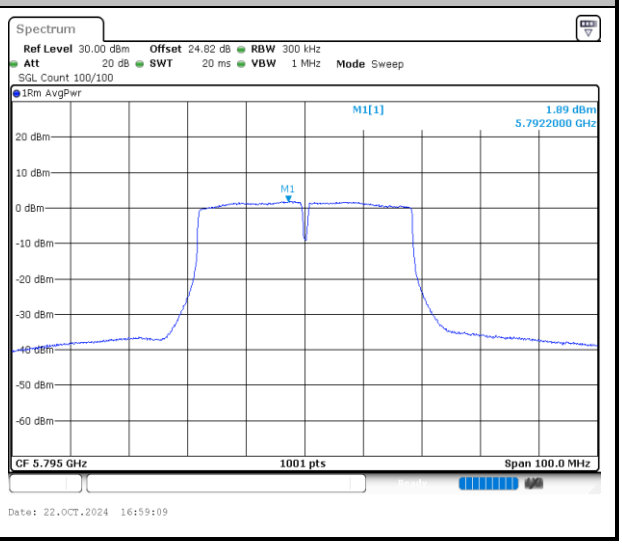
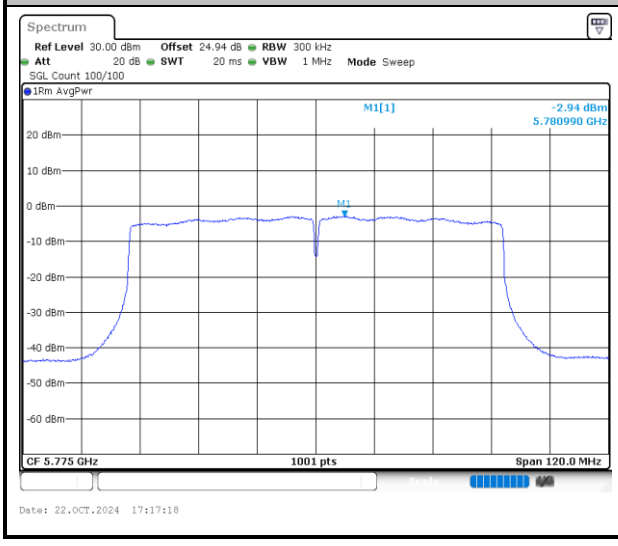
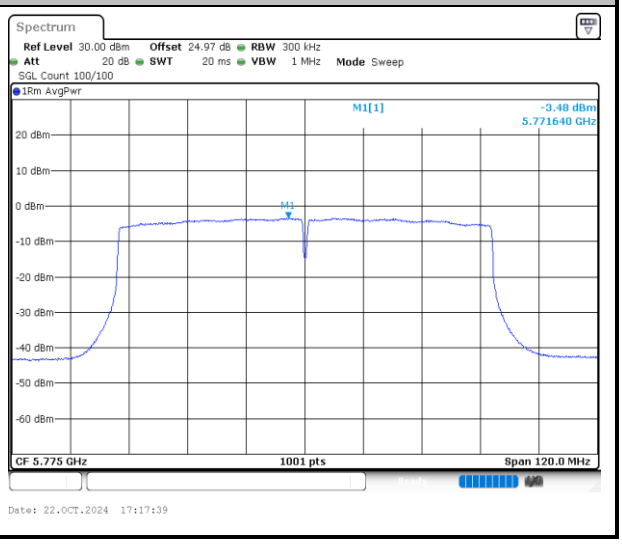
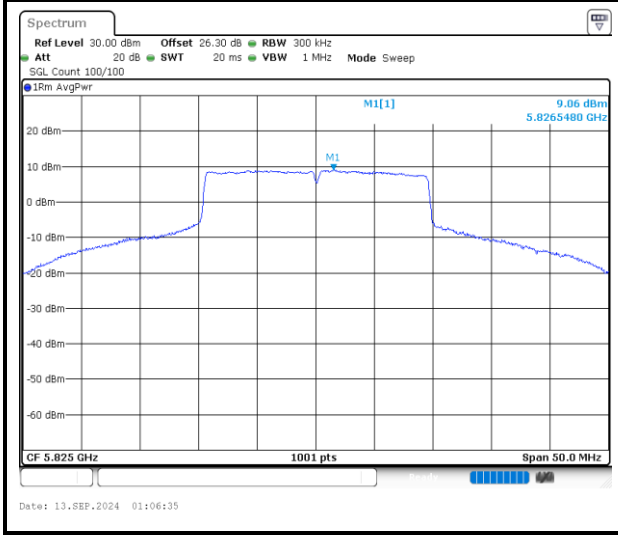
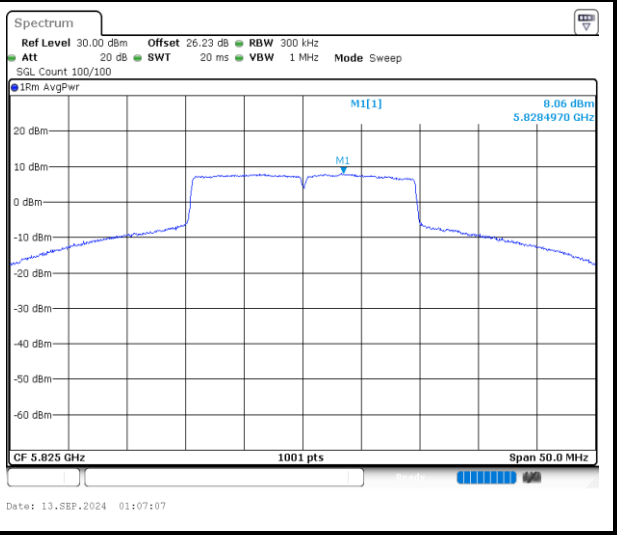
	

<802.11ac VHT80>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 1	MIMO Ant. 2
	

<802.11ax HE20>

Maximum Power Density Plot (dBm/300kHz)	
MIMO Ant. 1	MIMO Ant. 2
	

<802.11ax HE40>

Maximum Power Density Plot (dBm/300kHz)	
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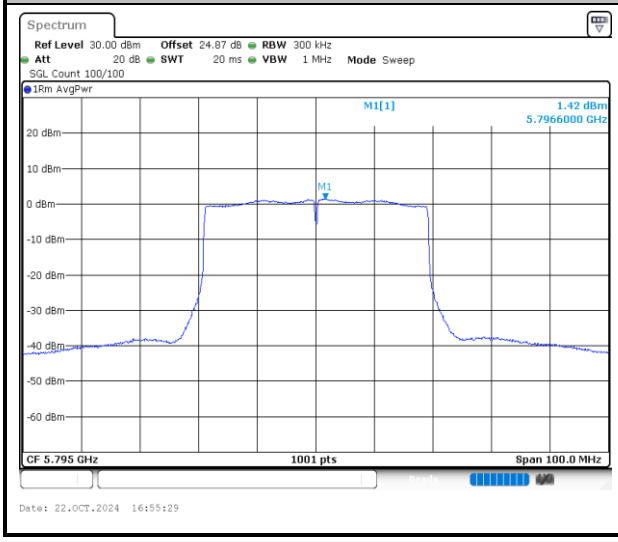	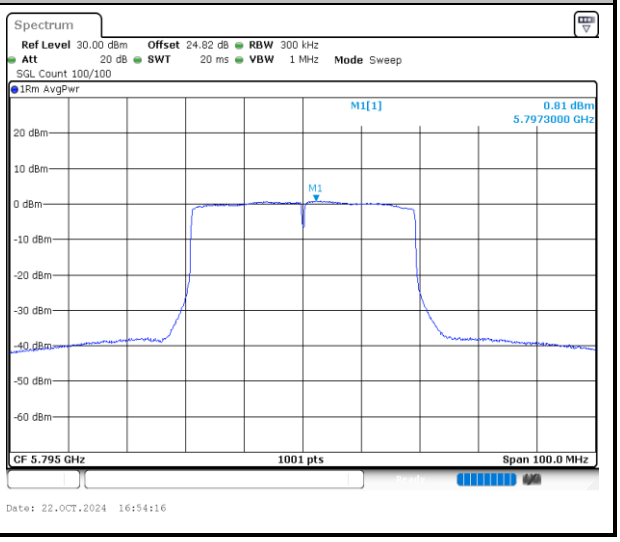

<802.11ax HE80>

Maximum Power Density Plot (dBm/300kHz)	
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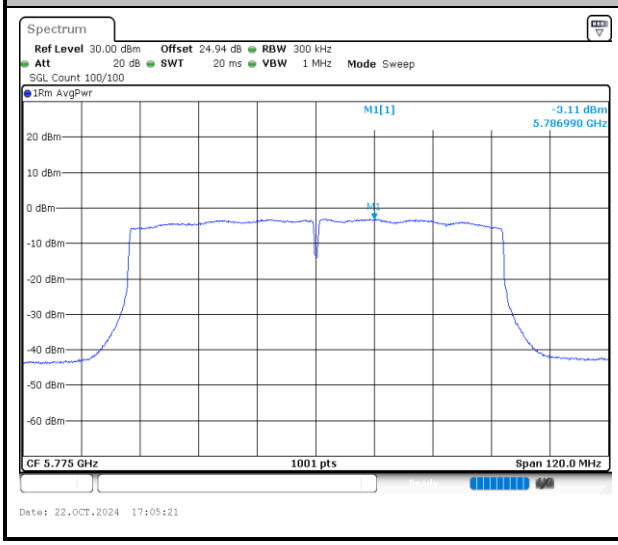
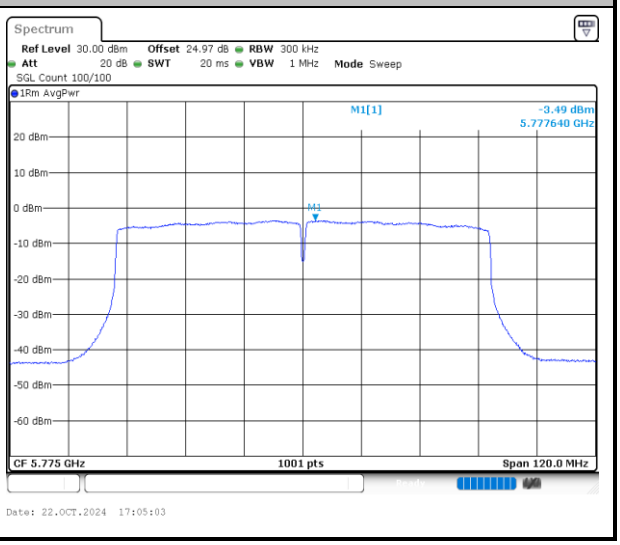
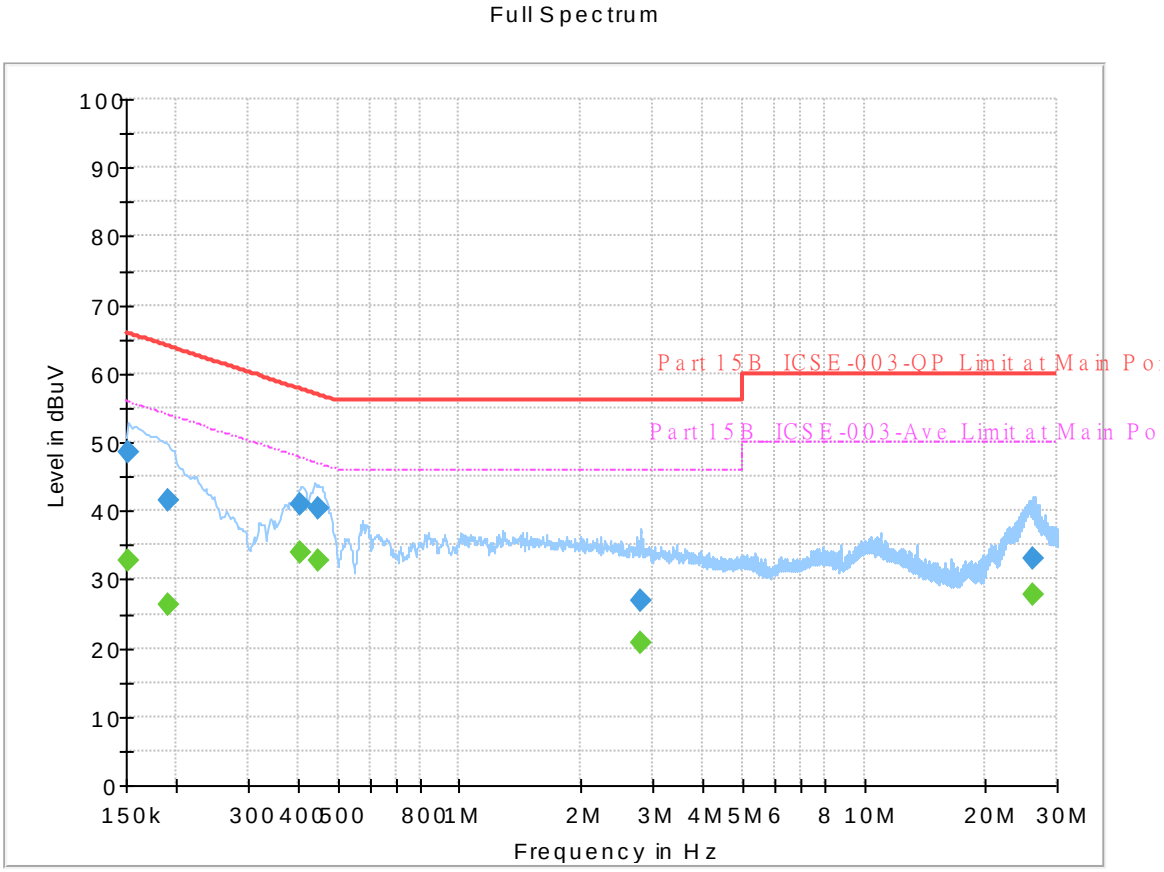
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	490210
Test Mode :	Mode 2
Test Voltage :	120Vac/60Hz
Phase :	Line

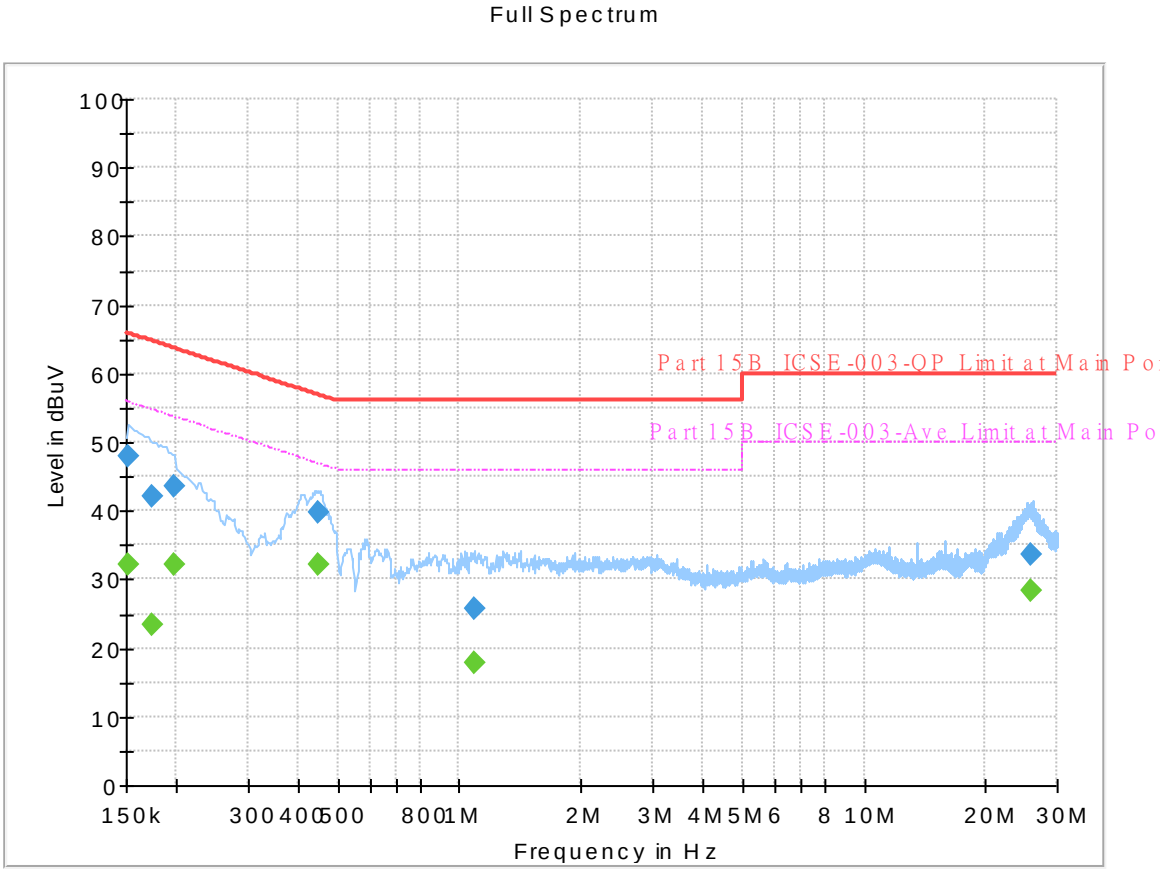


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.89	55.88	22.99	L1	OFF	19.8
0.152250	48.51	---	65.88	17.37	L1	OFF	19.8
0.190500	---	26.23	54.02	27.79	L1	OFF	19.8
0.190500	41.50	---	64.02	22.52	L1	OFF	19.8
0.404250	---	33.82	47.77	13.95	L1	OFF	19.8
0.404250	41.03	---	57.77	16.74	L1	OFF	19.8
0.447000	---	32.68	46.93	14.25	L1	OFF	19.8
0.447000	40.24	---	56.93	16.69	L1	OFF	19.8
2.811750	---	20.64	46.00	25.36	L1	OFF	19.8
2.811750	26.83	---	56.00	29.17	L1	OFF	19.8
26.187000	---	27.75	50.00	22.25	L1	OFF	20.0
26.187000	33.09	---	60.00	26.91	L1	OFF	20.0

EUT Information

Report NO :	490210
Test Mode :	Mode 2
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	32.13	55.88	23.75	N	OFF	19.8
0.152250	48.00	---	65.88	17.88	N	OFF	19.8
0.174750	---	23.33	54.73	31.40	N	OFF	19.8
0.174750	42.23	---	64.73	22.50	N	OFF	19.8
0.197250	---	32.27	53.73	21.46	N	OFF	19.8
0.197250	43.66	---	63.73	20.07	N	OFF	19.8
0.447000	---	32.07	46.93	14.86	N	OFF	19.8
0.447000	39.68	---	56.93	17.25	N	OFF	19.8
1.086000	---	17.70	46.00	28.30	N	OFF	19.8
1.086000	25.66	---	56.00	30.34	N	OFF	19.8
25.811250	---	28.36	50.00	21.64	N	OFF	20.1
25.811250	33.69	---	60.00	26.31	N	OFF	20.1

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai and Sam Chou	**Temperature :**	19.8~23.6℃
		Relative Humidity :	64.8~70.5%

Note symbol

-L	**Low channel location**
-R	**High channel location**

C1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 59	U-NII-3	5.725-5.85	1+2	802.11a	149	5745	6Mbps	-	-
Mode 60	U-NII-3	5.725-5.85	1+2	802.11a	157	5785	6Mbps	-	-
Mode 61	U-NII-3	5.725-5.85	1+2	802.11a	165	5825	6Mbps	-	-
Mode 62	U-NII-3	5.725-5.85	1+2	802.11n HT20	149	5745	MCS0	-	-
Mode 63	U-NII-3	5.725-5.85	1+2	802.11n HT20	157	5785	MCS0	-	-
Mode 64	U-NII-3	5.725-5.85	1+2	802.11n HT20	165	5825	MCS0	-	-
Mode 65	U-NII-3	5.725-5.85	1+2	802.11ax HE20	149	5745	MCS0	Full RU	-
Mode 66	U-NII-3	5.725-5.85	1+2	802.11ax HE20	157	5785	MCS0	Full RU	-
Mode 67	U-NII-3	5.725-5.85	1+2	802.11ax HE20	165	5825	MCS0	Full RU	-
Mode 68	U-NII-3	5.725-5.85	1+2	802.11n HT40	151	5755	MCS0	-	-
Mode 69	U-NII-3	5.725-5.85	1+2	802.11n HT40	159	5795	MCS0	-	-

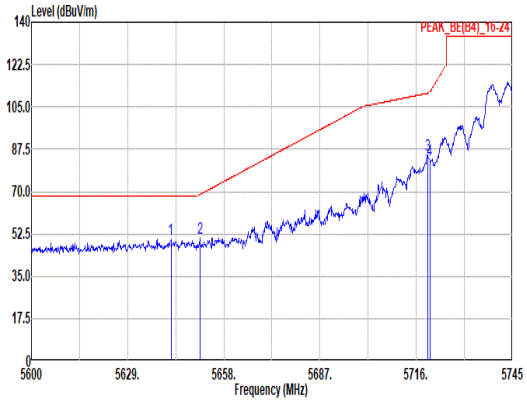
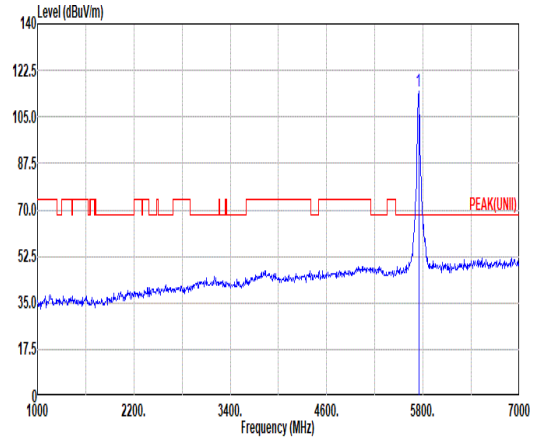
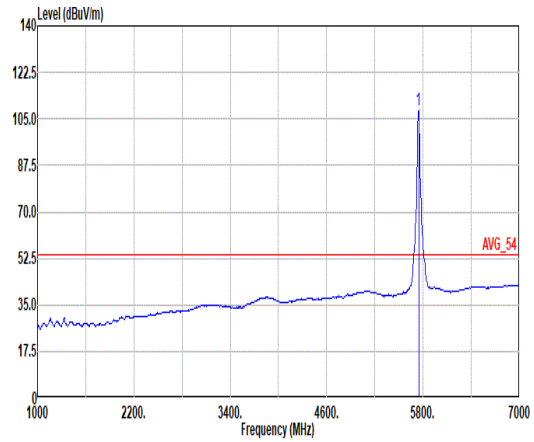
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 70	U-NII-3	5.725-5.85	1+2	802.11ax HE40	151	5755	MCS0	Full RU	-
Mode 71	U-NII-3	5.725-5.85	1+2	802.11ax HE40	159	5795	MCS0	Full RU	-
Mode 72	U-NII-3	5.725-5.85	1+2	802.11ac VHT80	155	5775	MCS0	-	-
Mode 73	U-NII-3	5.725-5.85	1+2	802.11ax HE80	155	5775	MCS0	Full RU	-
Mode 74	U-NII-3	5.725-5.85	1+2	802.11n HT40	159	5795	MCS0	-	LF
Mode 75	U-NII-3	5.725-5.85	1+2	802.11n HT40	159	5795	MCS0	-	SHF

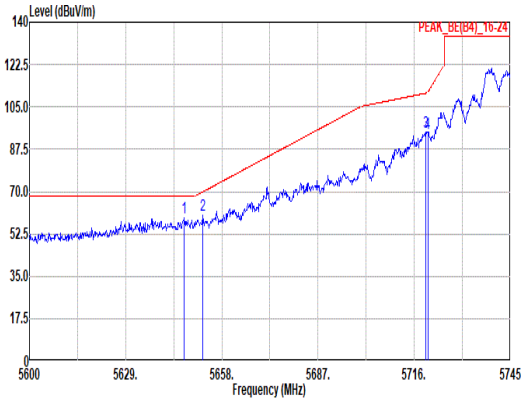
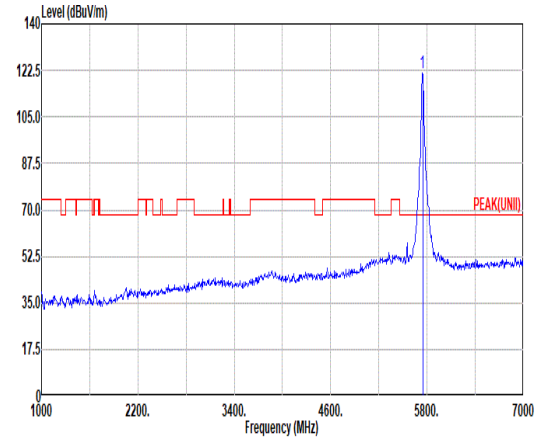
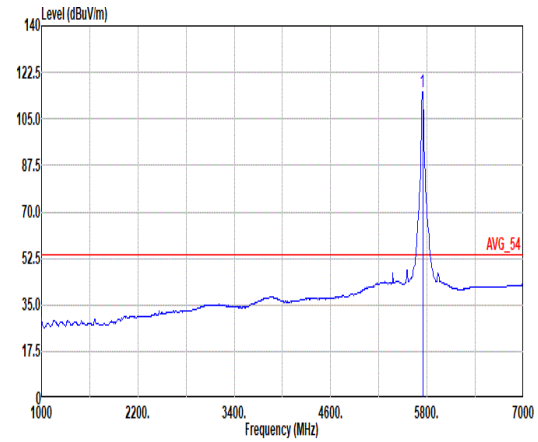
C2. Summary of each worse mode

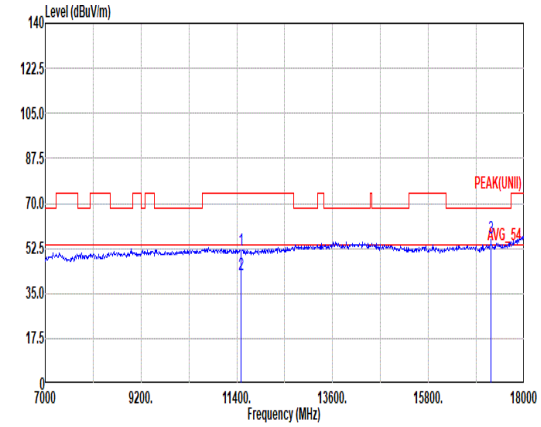
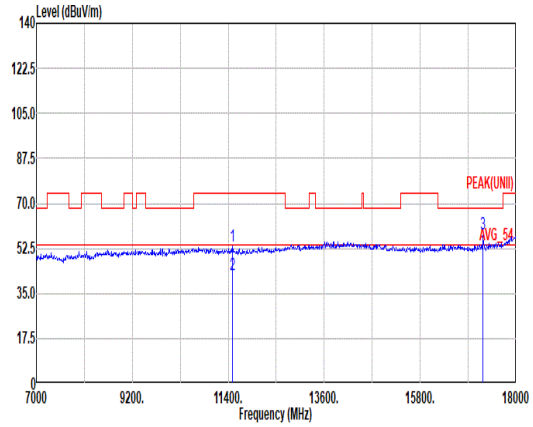
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
59	802.11a	149	5646.69	58.99	68.20	-9.21	V	Peak	Pass	-	Band Edge
	802.11a	149	17235.00	58.02	68.20	-10.18	V	Peak	Pass	-	Harmonic
60	802.11a	157	5644.96	53.16	68.20	-15.04	V	Peak	Pass	-	Band Edge
	802.11a	157	17355.00	58.22	68.20	-9.98	H	Peak	Pass	-	Harmonic
61	802.11a	165	5924.38	60.80	68.66	-7.86	V	Peak	Pass	-	Band Edge
	802.11a	165	17475.00	59.14	68.20	-9.06	V	Peak	Pass	-	Harmonic
62	802.11n HT20	149	5639.59	58.76	68.20	-9.44	V	Peak	Pass	-	Band Edge
	802.11n HT20	149	-	-	-	-	-	-	-	-	Harmonic
63	802.11n HT20	157	-	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	157	17355.00	60.22	68.20	-7.98	V	Peak	Pass	-	Harmonic
64	802.11n HT20	165	5930.88	60.39	68.20	-7.81	V	Peak	Pass	-	Band Edge

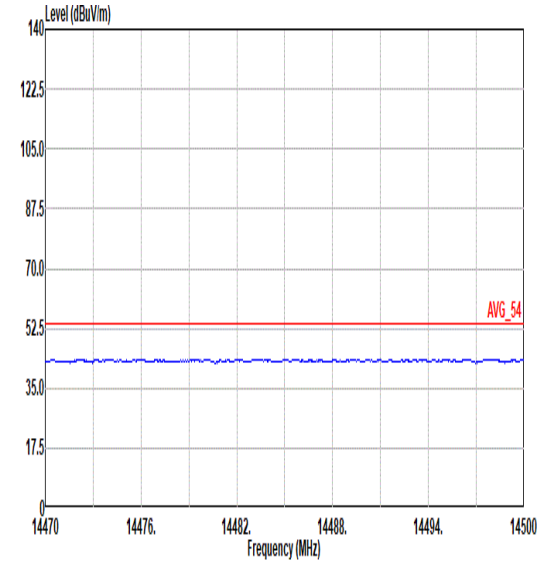
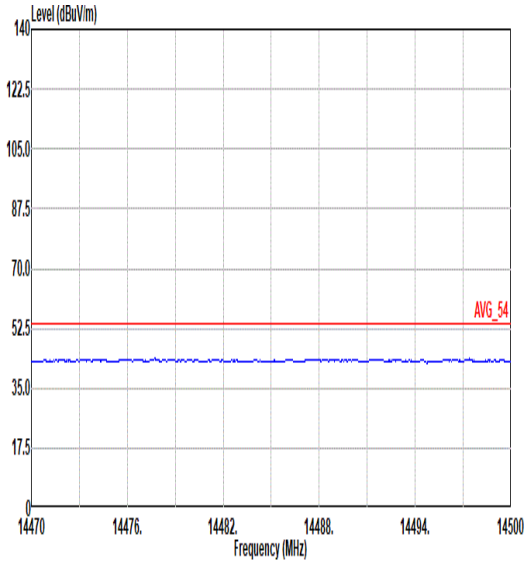
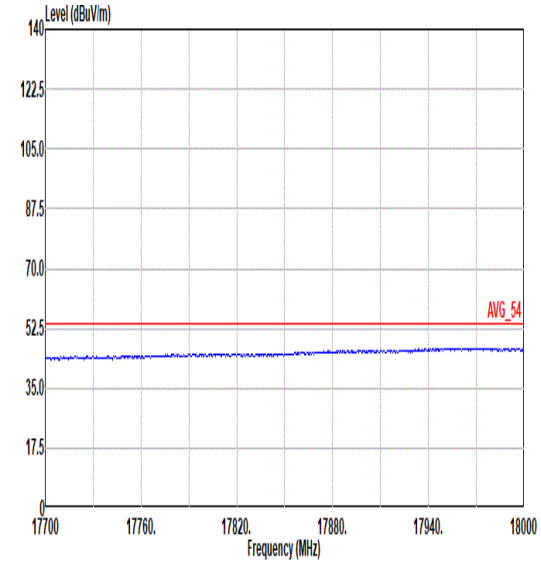
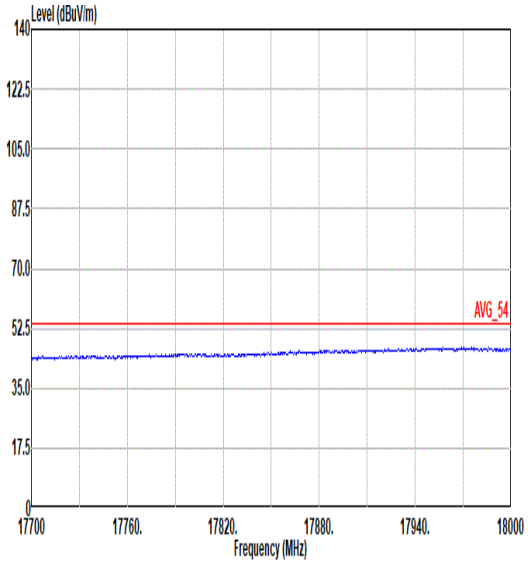
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
64	802.11n HT20	165	-	-	-	-	-	-	-	-	Harmonic
65	802.11ax HE20	149	5647.85	60.91	68.20	-7.29	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	149	17235.00	58.28	68.20	-9.92	V	Peak	Pass	Full RU	Harmonic
66	802.11ax HE20	157	5600.74	55.03	68.20	-13.17	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	157	17355.00	59.59	68.20	-8.61	V	Peak	Pass	Full RU	Harmonic
67	802.11ax HE20	165	5921.63	63.02	70.69	-7.67	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	165	17475.00	60.28	68.20	-7.92	V	Peak	Pass	Full RU	Harmonic
68	802.11n HT40	151	5641.08	63.26	68.20	-4.94	V	Peak	Pass	-	Band Edge
	802.11n HT40	151	11510.00	42.43	54.00	-11.57	V	Avg.	Pass	-	Harmonic
69	802.11n HT40	159	5926.75	64.77	68.20	-3.43	V	Peak	Pass	-	Band Edge
	802.11n HT40	159	11590.00	42.13	54.00	-11.87	V	Avg.	Pass	-	Harmonic

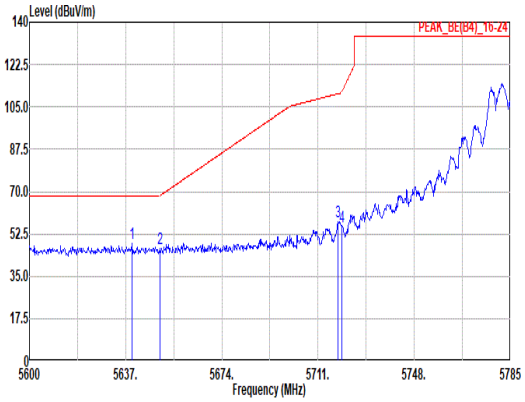
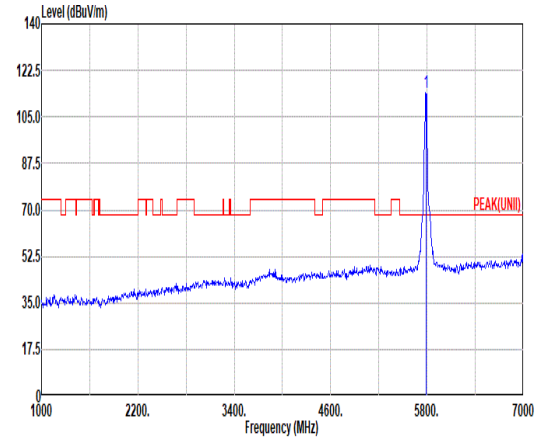
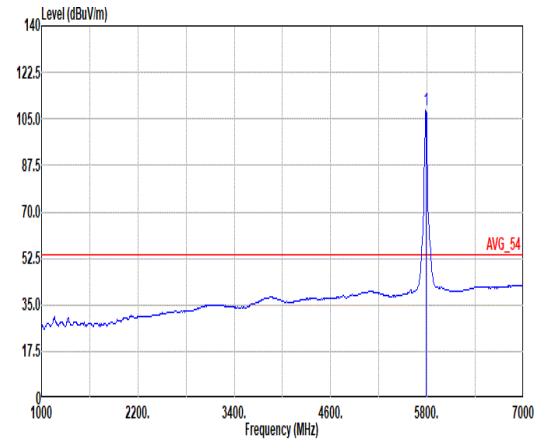
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
70	802.11ax HE40	151	5644.33	64.07	68.20	-4.13	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	151	11510.00	42.48	54.00	-11.52	V	Avg.	Pass	Full RU	Harmonic
71	802.11ax HE40	159	5932.02	62.52	68.20	-5.68	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	159	11590.00	42.02	54.00	-11.98	V	Avg.	Pass	Full RU	Harmonic
72	802.11ac VHT80	155	5648.30	64.65	68.20	-3.55	V	Peak	Pass	-	Band Edge
	802.11ac VHT80	155	11550.00	42.91	54.00	-11.09	V	Avg.	Pass	-	Harmonic
73	802.11ax HE80	155	5649.35	63.75	68.20	-4.45	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE80	155	11550.00	42.28	54.00	-11.72	V	Avg.	Pass	Full RU	Harmonic
74	LF	159	952.47	36.07	46.00	-9.93	V	Peak	Pass	-	LF
75	SHF	159	39440.72	44.84	54.00	-9.16	H	Avg.	Pass	-	SHF

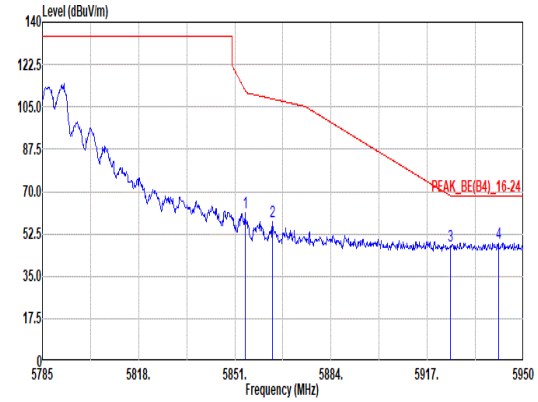
Mode	59	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5642.05 50.34 68.20 -17.86 41.72 33.07 13.55 38.00 0.00 319 54 PEAK 2 5650.75 50.67 68.76 -18.09 41.99 33.11 13.56 37.99 0.00 319 54 PEAK 3 5719.48 85.19 110.65 -25.46 75.98 33.54 13.65 37.98 0.00 319 54 PEAK 4 5720.06 83.14 110.94 -27.80 73.93 33.54 13.65 37.98 0.00 319 54 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 114.39 ------ ------ 105.08 33.59 13.69 37.97 0.00 319 54 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 108.13 ------ ------ 98.82 33.59 13.69 37.97 0.00 319 54 AVERAGE

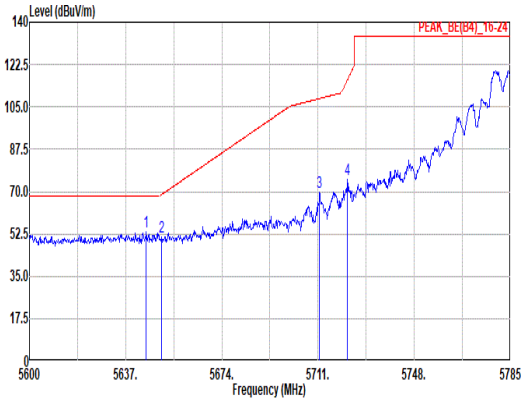
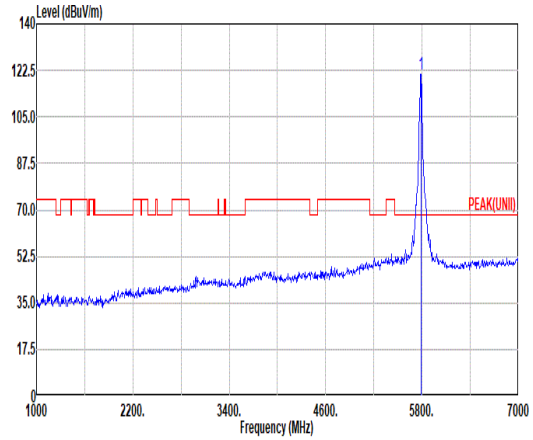
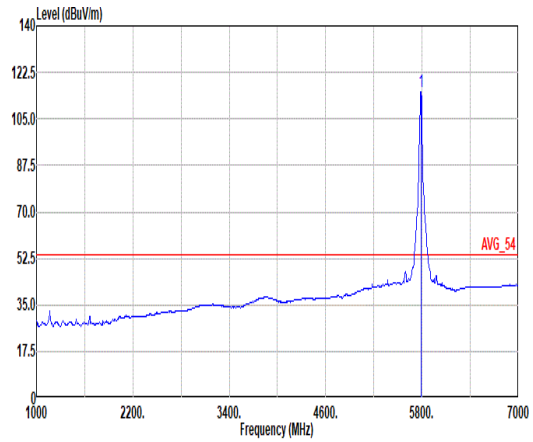
Mode	59	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5646.69 58.99 68.20 -9.21 50.34 33.09 13.55 37.99 0.00 148 351 PEAK 2 5652.20 59.99 69.84 -9.85 51.30 33.12 13.56 37.99 0.00 148 351 PEAK 3 5719.48 94.58 110.65 -16.07 85.37 33.54 13.65 37.98 0.00 148 351 PEAK 4 5720.06 94.18 110.94 -16.76 84.97 33.54 13.65 37.98 0.00 148 351 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 121.53 ------ ------ 112.24 33.58 13.68 37.97 0.00 148 351 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 115.39 ------ ------ 106.05 33.61 13.70 37.97 0.00 148 351 AVERAGE

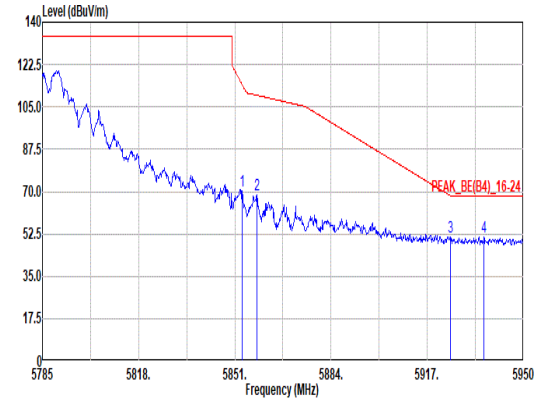
Mode	59	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 51.85 74.00 -22.15 35.48 39.08 19.46 42.64 0.47 351 248 PEAK 2 11490.00 42.36 54.00 -11.64 25.99 39.08 19.46 42.64 0.47 351 248 Average 3 17235.00 56.45 68.20 -11.75 38.37 38.27 24.06 44.77 0.52 245 108 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 53.20 74.00 -20.80 36.83 39.08 19.46 42.64 0.47 157 28 PEAK 2 11490.00 42.51 54.00 -11.49 26.14 39.08 19.46 42.64 0.47 157 28 Average 3 17235.00 58.02 68.20 -10.18 39.94 38.27 24.06 44.77 0.52 100 125 PEAK

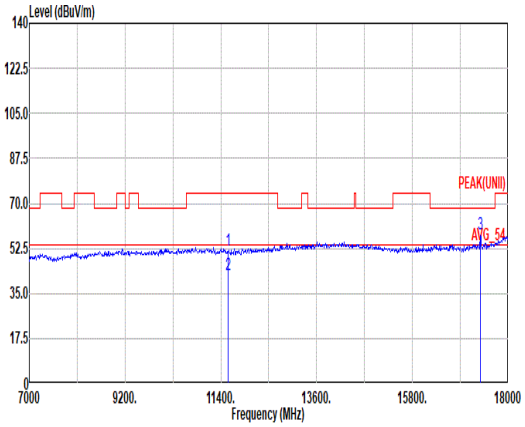
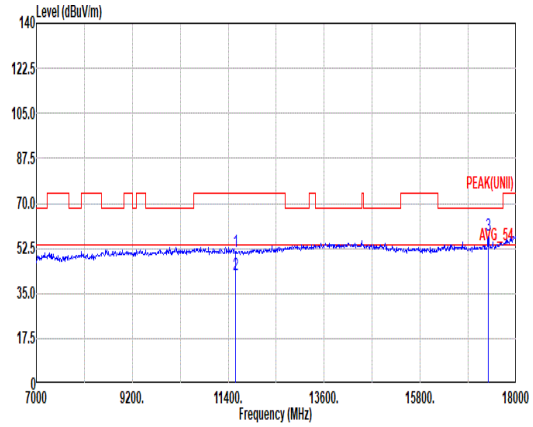
Mode	59	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

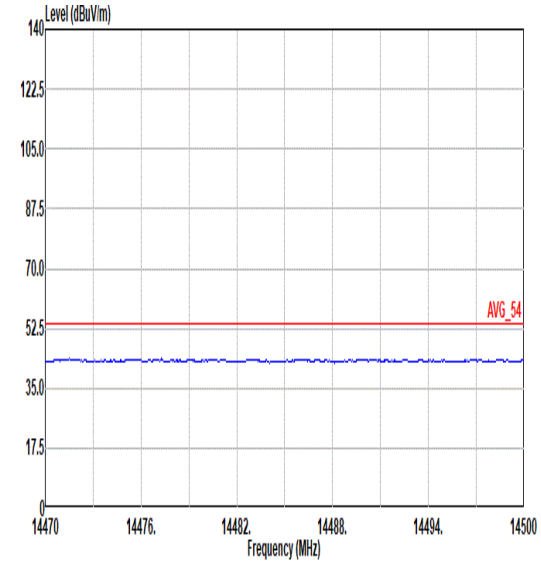
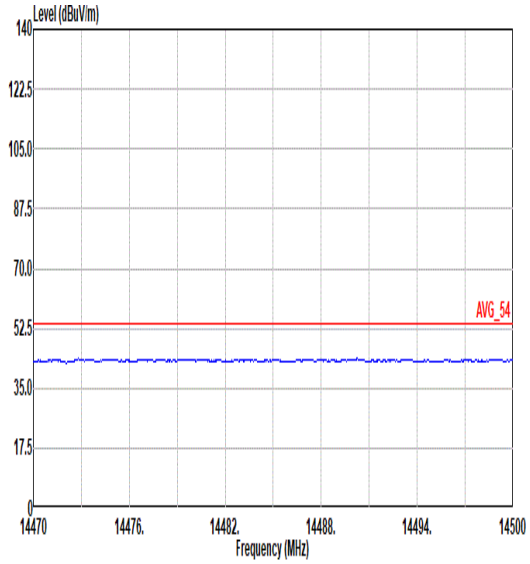
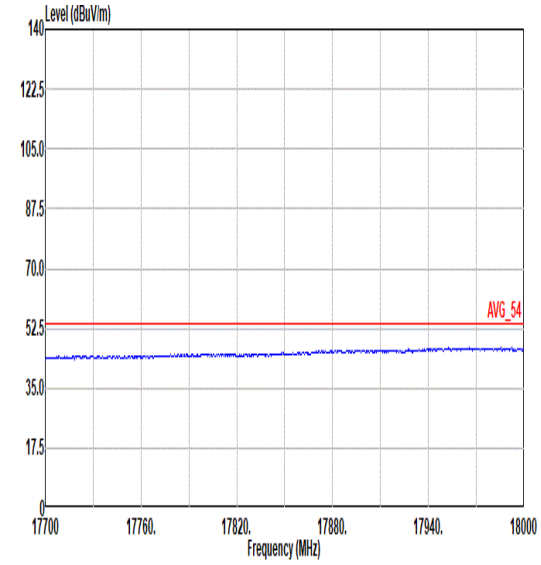
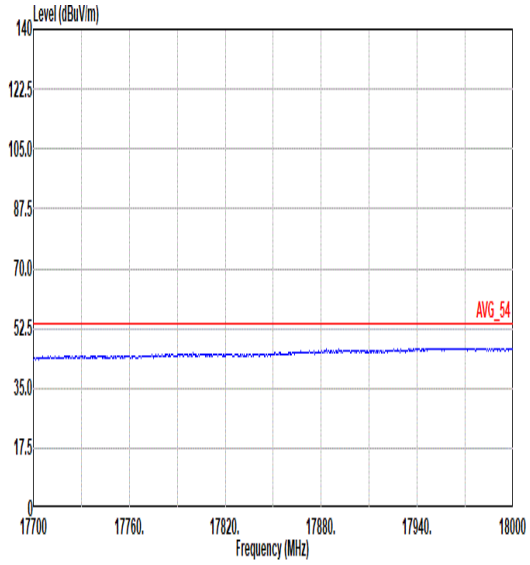
Mode	60	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5639.59 48.37 68.20 -19.83 39.77 33.06 13.54 38.00 0.00 300 49 PEAK 2 5650.14 46.40 68.30 -21.90 37.73 33.10 13.56 37.99 0.00 300 49 PEAK 3 5718.77 57.60 110.46 -52.86 48.39 33.54 13.65 37.98 0.00 300 49 PEAK 4 5720.07 55.36 110.95 -55.59 46.15 33.54 13.65 37.98 0.00 300 49 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 114.38 ------ ------ 104.81 33.79 13.74 37.96 0.00 300 49 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 108.09 ------ ------ 98.52 33.79 13.74 37.96 0.00 300 49 AVERAGE

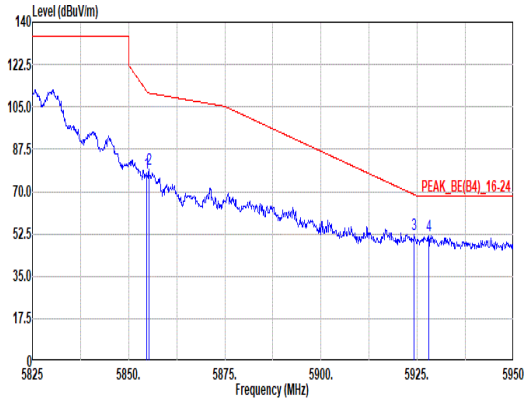
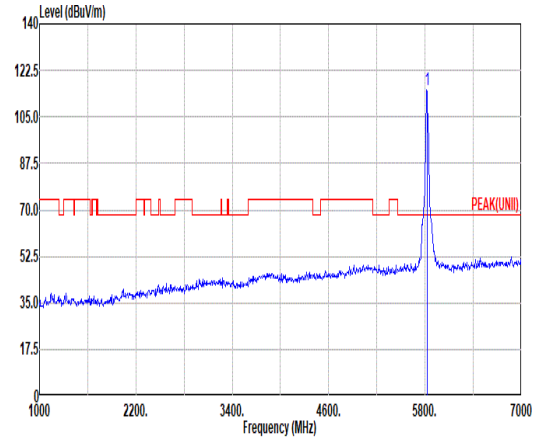
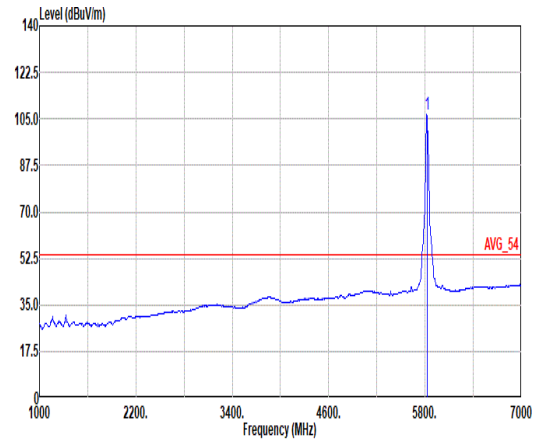
Mode	60	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.47 61.53 112.02 -50.49 51.60 34.02 13.85 37.94 0.00 300 49 PEAK 2 5863.87 57.43 108.31 -50.88 47.45 34.06 13.86 37.94 0.00 300 49 PEAK 3 5924.92 47.51 68.26 -20.75 37.23 34.25 13.96 37.93 0.00 300 49 PEAK 4 5941.42 48.79 68.20 -19.41 38.44 34.28 13.99 37.92 0.00 300 49 PEAK	Blank

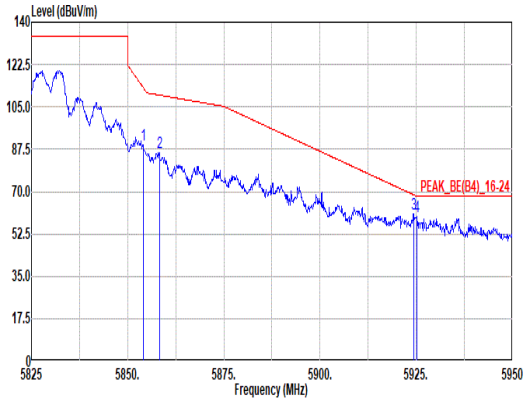
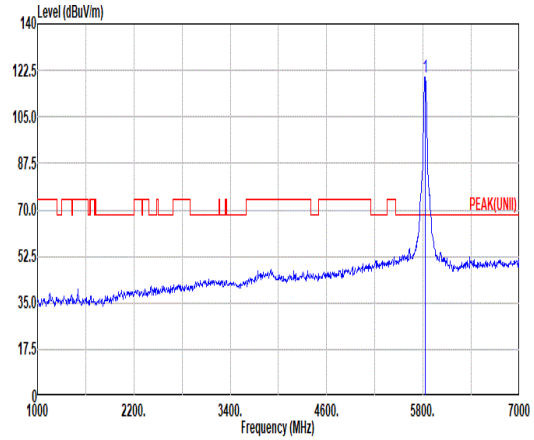
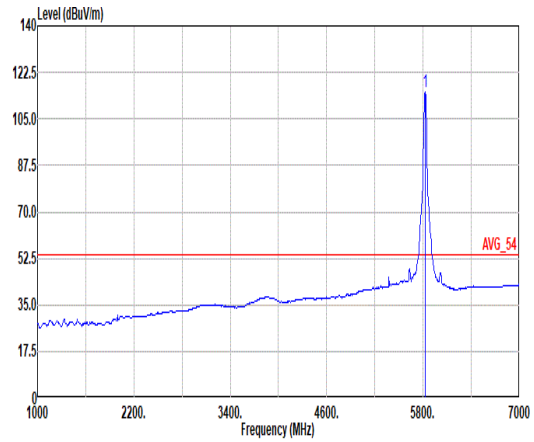
Mode	60	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5644.96 53.16 68.20 -15.04 44.53 33.08 13.55 38.00 0.00 128 345 PEAK 2 5650.69 51.03 68.71 -17.68 42.35 33.11 13.56 37.99 0.00 128 345 PEAK 3 5711.56 69.87 108.44 -38.57 60.69 33.52 13.64 37.98 0.00 128 345 PEAK 4 5722.29 75.06 116.01 -40.95 65.84 33.54 13.66 37.98 0.00 128 345 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 121.22 ------ ------ 111.65 33.79 13.74 37.96 0.00 128 345 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 115.41 ------ ------ 105.80 33.83 13.74 37.96 0.00 128 345 AVERAGE

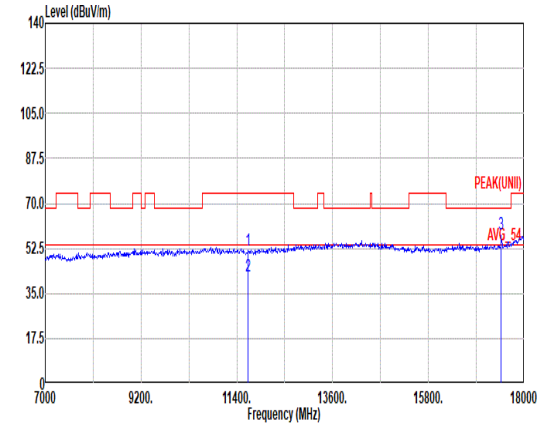
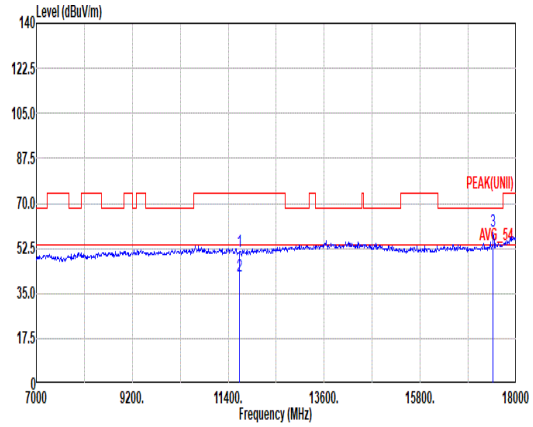
Mode	60	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5853.48 70.50 114.28 -43.78 60.59 34.01 13.85 37.95 0.00 128 345 PEAK 2 5858.59 68.66 109.79 -41.13 58.72 34.03 13.85 37.94 0.00 128 345 PEAK 3 5924.92 51.17 68.26 -17.09 40.89 34.25 13.96 37.93 0.00 128 345 PEAK 4 5936.47 51.29 68.20 -16.91 40.97 34.27 13.98 37.93 0.00 128 345 PEAK	Blank

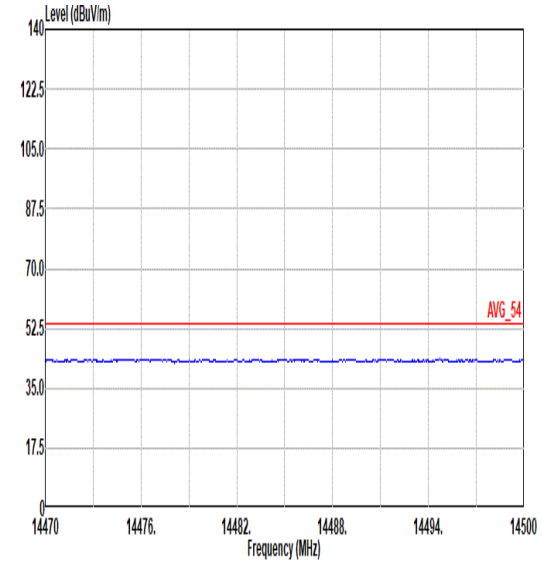
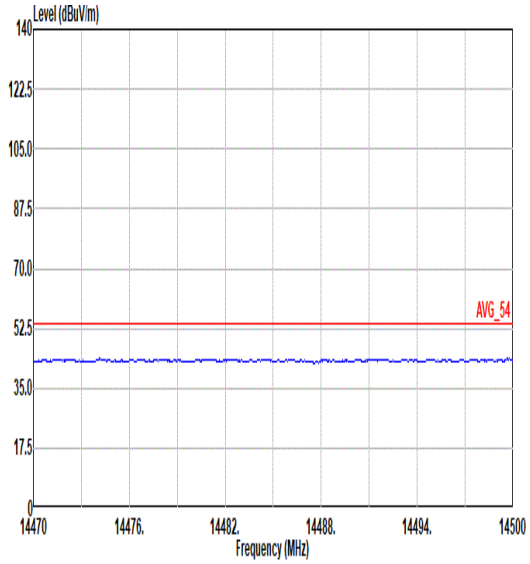
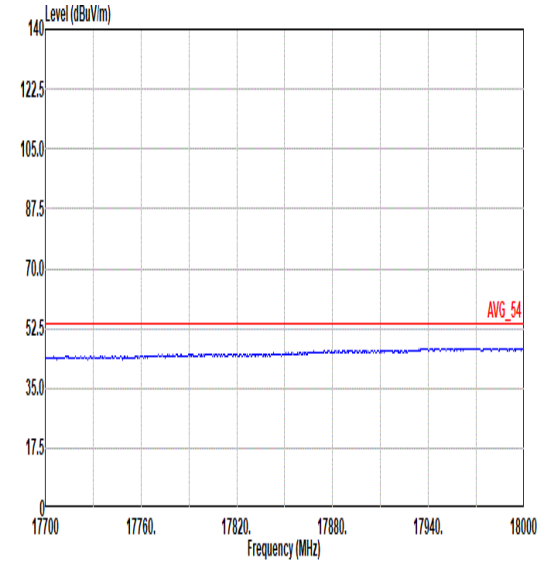
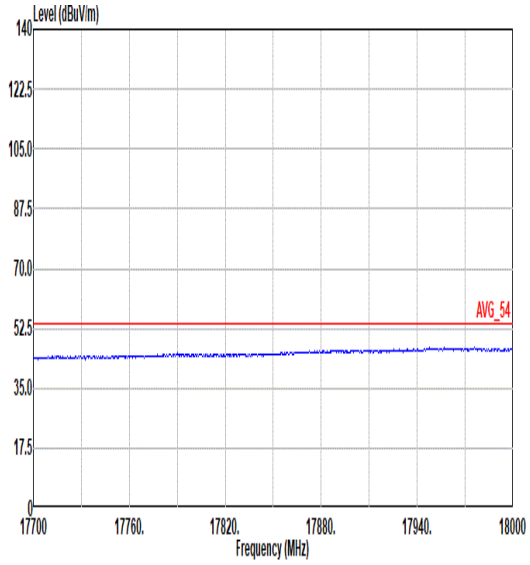
Mode	60	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 51.53 74.00 -22.47 35.42 38.82 19.53 42.71 0.47 224 89 PEAK 2 11570.00 42.34 54.00 -11.66 26.23 38.82 19.53 42.71 0.47 224 89 Average 3 17355.00 58.22 68.20 -9.98 40.11 38.33 24.14 44.88 0.52 105 187 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 51.48 74.00 -22.52 35.37 38.82 19.53 42.71 0.47 158 47 PEAK 2 11570.00 42.05 54.00 -11.95 25.94 38.82 19.53 42.71 0.47 158 47 Average 3 17355.00 57.67 68.20 -10.53 39.56 38.33 24.14 44.88 0.52 121 321 PEAK

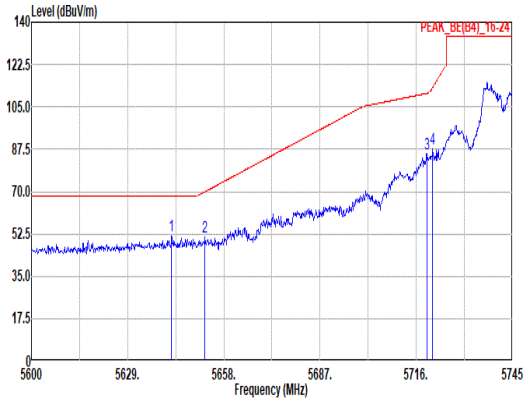
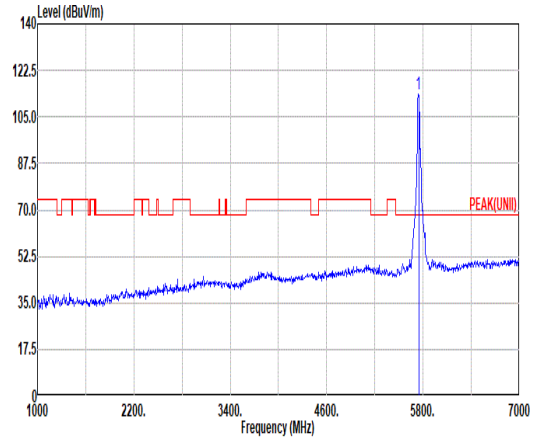
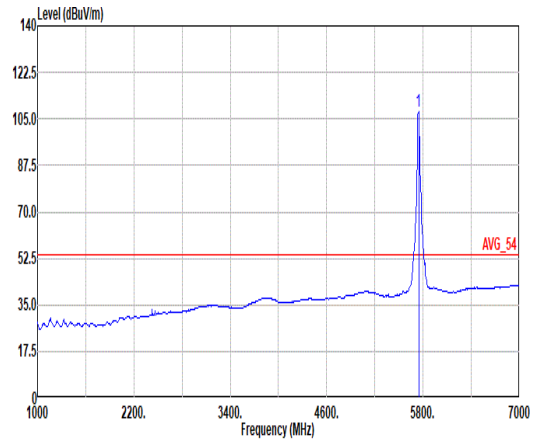
Mode	60	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

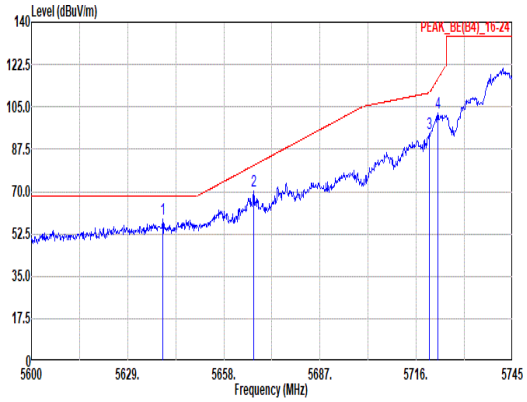
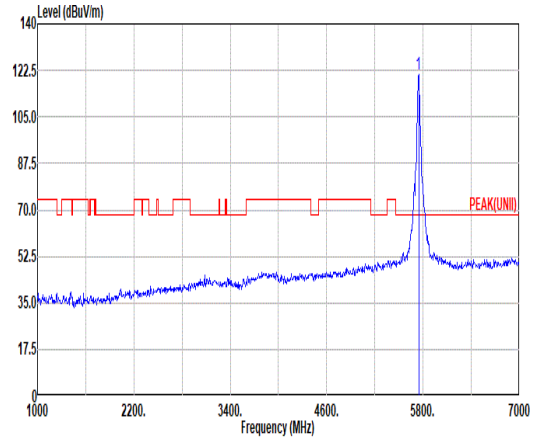
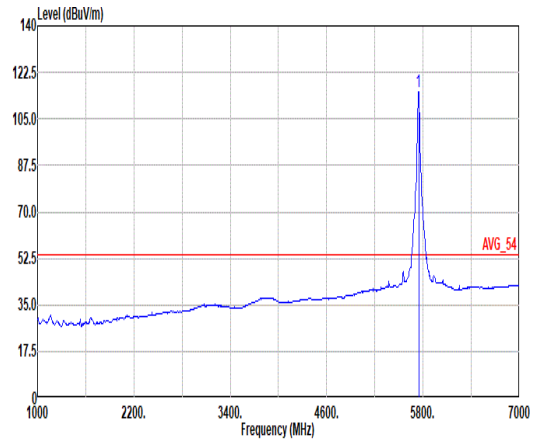
Mode	61	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5854.75 77.44 111.37 -33.93 67.51 34.02 13.85 37.94 0.00 100 59 PEAK 2 5855.25 79.31 110.73 -31.42 69.38 34.02 13.85 37.94 0.00 100 59 PEAK 3 5924.25 52.47 68.75 -16.28 42.19 34.25 13.96 37.93 0.00 100 59 PEAK 4 5928.00 51.99 68.20 -16.21 41.70 34.26 13.96 37.93 0.00 100 59 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 114.97 ------ ------ 105.19 33.94 13.79 37.95 0.00 100 59 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 106.80 ------ ------ 97.02 33.94 13.79 37.95 0.00 100 59 AVERAGE

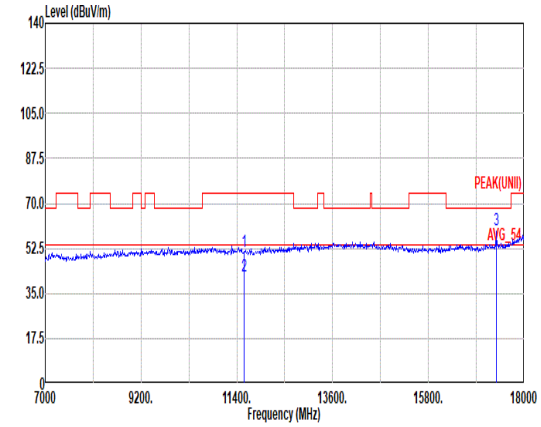
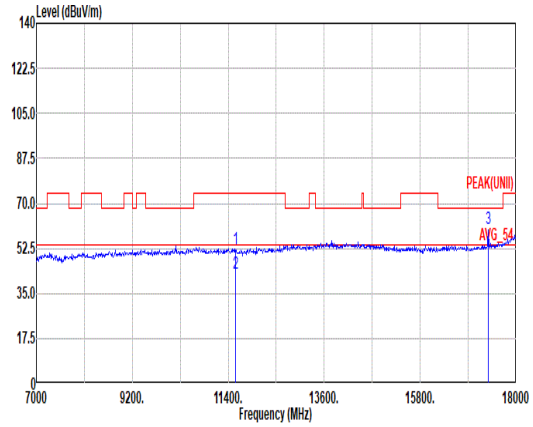
Mode	61	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.00 89.46 113.08 -23.62 79.54 34.02 13.85 37.95 0.00 136 360 PEAK 2 5858.25 86.12 109.89 -23.77 76.18 34.03 13.85 37.94 0.00 136 360 PEAK 3 5924.38 60.80 68.66 -7.86 50.52 34.25 13.96 37.93 0.00 136 360 PEAK 4 5925.25 59.45 68.20 -8.75 49.17 34.25 13.96 37.93 0.00 136 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 119.77 ------ ------ 109.95 33.96 13.81 37.95 0.00 136 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.510kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 115.21 ------ ------ 105.39 33.96 13.81 37.95 0.00 136 360 AVERAGE

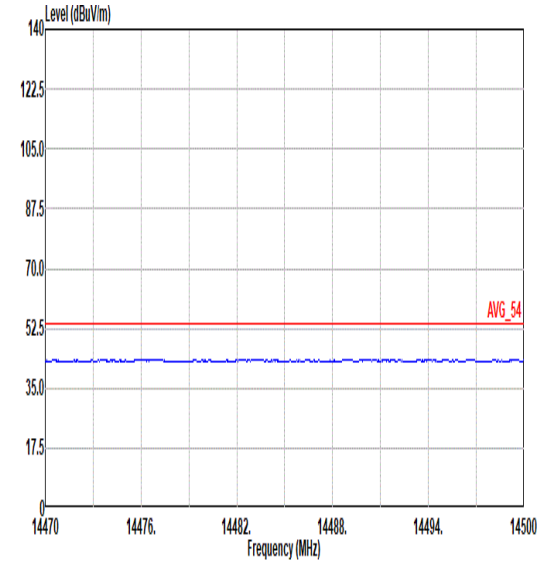
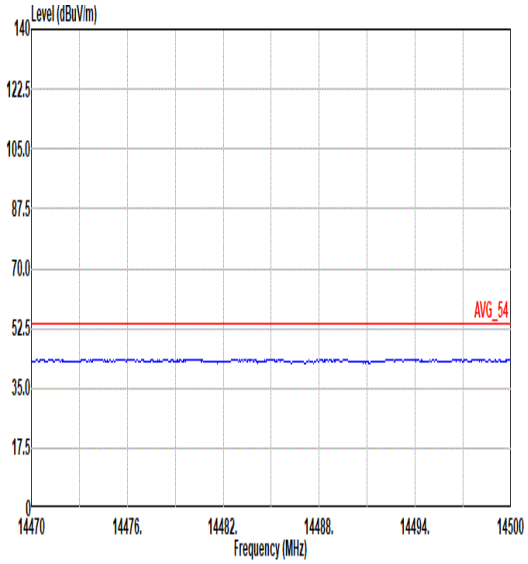
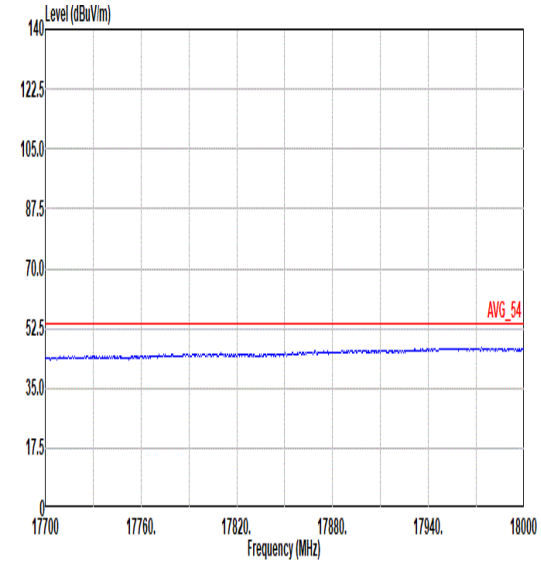
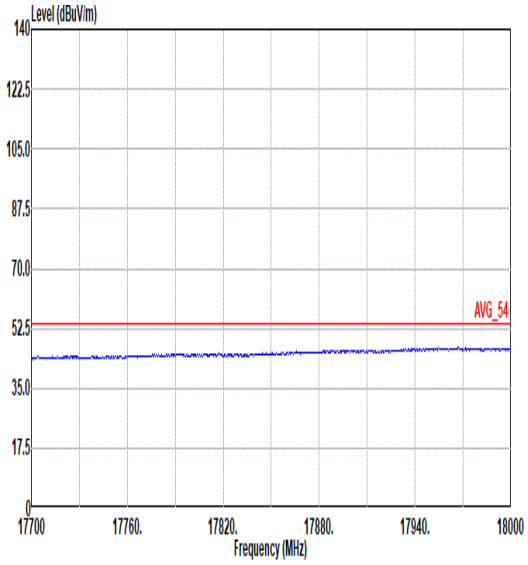
Mode	61	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 52.03 74.00 -21.97 36.15 38.60 19.60 42.78 0.46 354 66 PEAK 2 11650.00 41.86 54.00 -12.14 25.98 38.60 19.60 42.78 0.46 354 66 Average 3 17475.00 58.02 68.20 -10.18 39.66 38.60 24.22 44.99 0.53 115 177 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 51.46 74.00 -22.54 35.58 38.60 19.60 42.78 0.46 154 27 PEAK 2 11650.00 41.93 54.00 -12.07 26.05 38.60 19.60 42.78 0.46 154 27 Average 3 17475.00 59.14 68.20 -9.06 40.78 38.60 24.22 44.99 0.53 100 315 PEAK

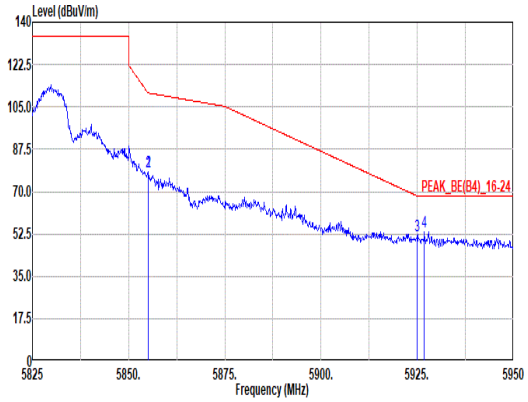
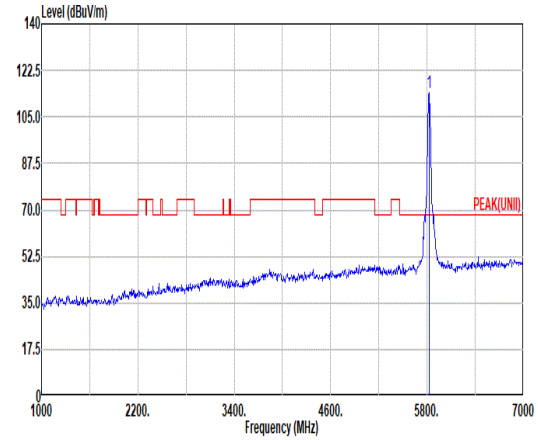
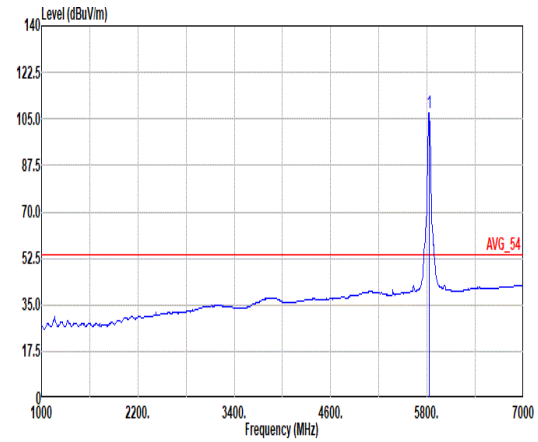
Mode	61	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

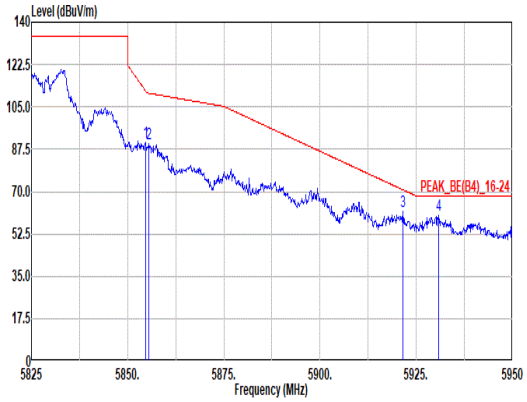
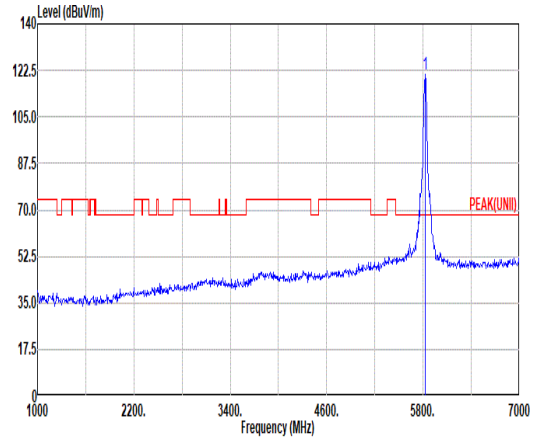
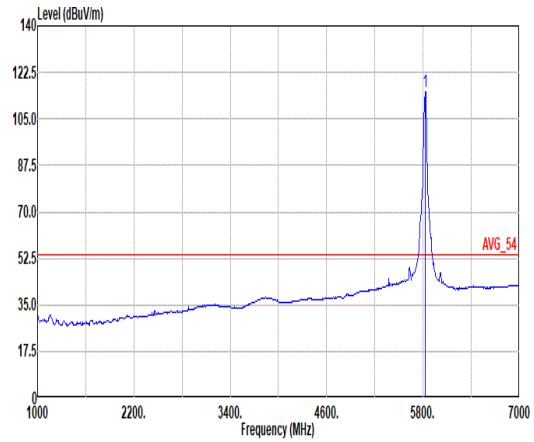
Mode	62	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5642.20 51.56 68.20 -16.64 42.94 33.07 13.55 38.00 0.00 316 56 PEAK 2 5652.35 51.41 69.94 -18.53 42.72 33.12 13.56 37.99 0.00 316 56 PEAK 3 5719.19 85.56 110.57 -25.01 76.35 33.54 13.65 37.98 0.00 316 56 PEAK 4 5720.93 87.50 112.92 -25.42 78.29 33.54 13.65 37.98 0.00 316 56 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 113.75 ------ ------ 104.46 33.58 13.68 37.97 0.00 316 56 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 107.97 ------ ------ 98.66 33.59 13.69 37.97 0.00 316 56 AVERAGE

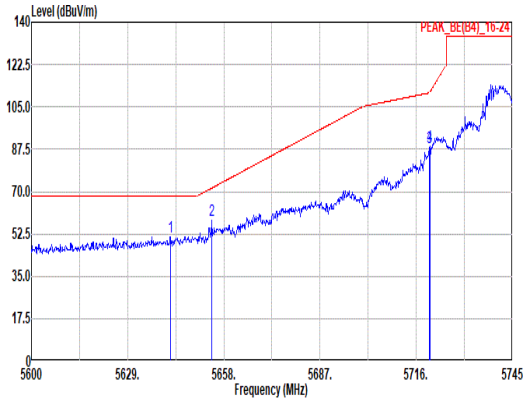
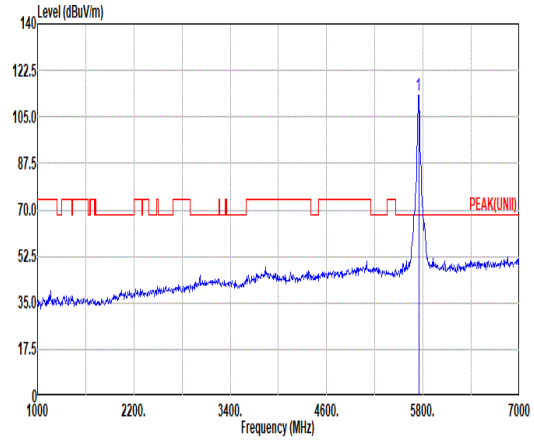
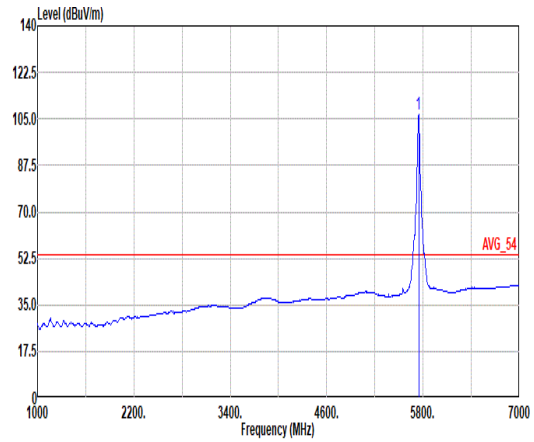
Mode	62	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5639.59 58.76 68.20 -9.44 50.16 33.06 13.54 38.00 0.00 100 205 PEAK 2 5666.99 70.23 80.81 -10.58 61.40 33.24 13.58 37.99 0.00 100 205 PEAK 3 5719.92 93.91 110.78 -16.87 84.70 33.54 13.65 37.98 0.00 100 205 PEAK 4 5722.53 102.38 116.56 -14.18 93.15 33.55 13.66 37.98 0.00 100 205 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 120.99 ------ ------ 111.65 33.61 13.70 37.97 0.00 100 205 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 115.27 ------ ------ 105.93 33.61 13.70 37.97 0.00 100 205 AVERAGE

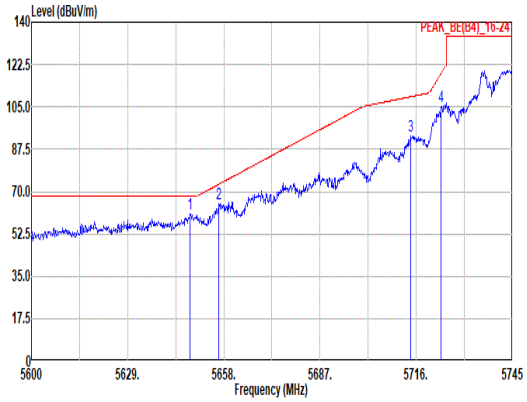
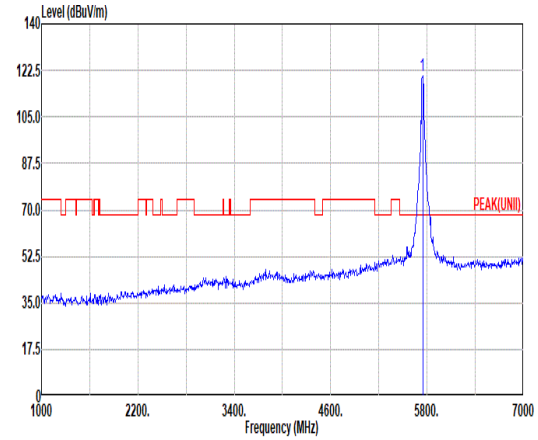
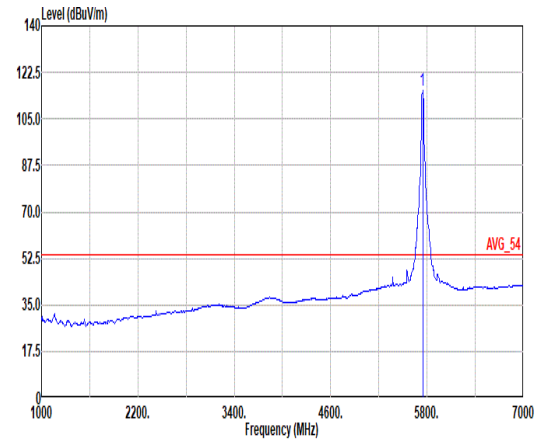
Mode	63	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 51.42 74.00 -22.58 35.31 38.82 19.53 42.71 0.47 354 348 PEAK 2 11570.00 41.86 54.00 -12.14 25.75 38.82 19.53 42.71 0.47 354 348 Average 3 17355.00 59.56 68.20 -8.64 41.45 38.33 24.14 44.88 0.52 355 131 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 52.06 74.00 -21.94 35.95 38.82 19.53 42.71 0.47 154 28 PEAK 2 11570.00 42.69 54.00 -11.31 26.58 38.82 19.53 42.71 0.47 154 28 Average 3 17355.00 60.22 68.20 -7.98 42.11 38.33 24.14 44.88 0.52 100 153 PEAK

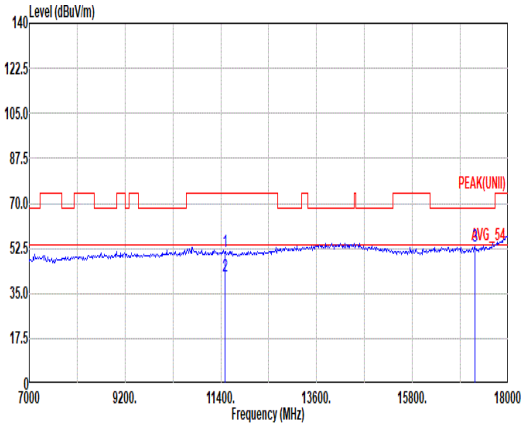
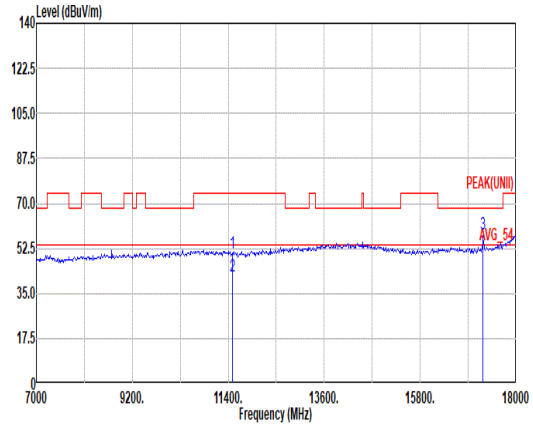
Mode	63	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

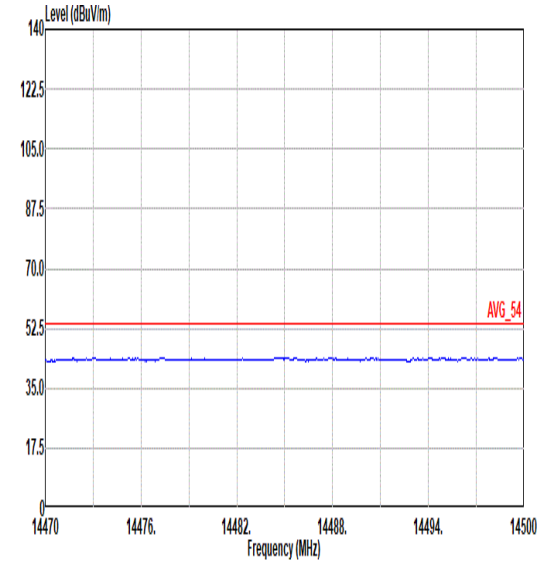
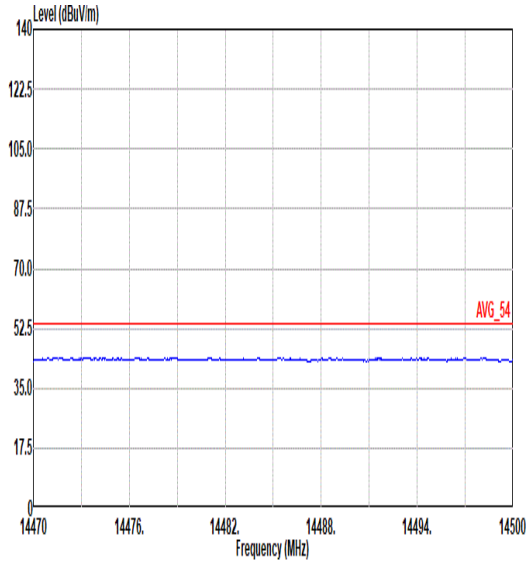
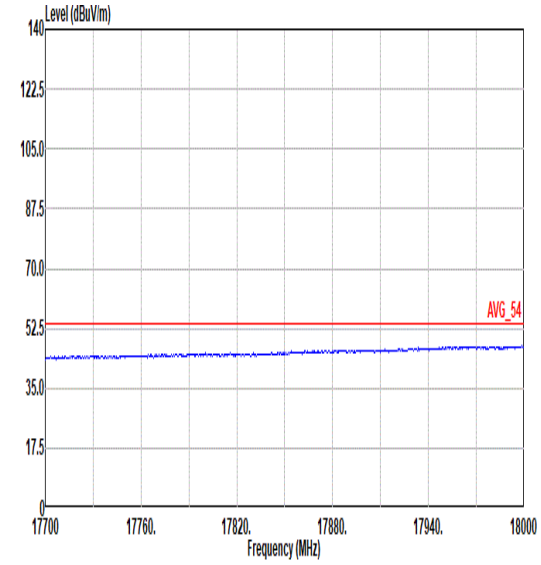
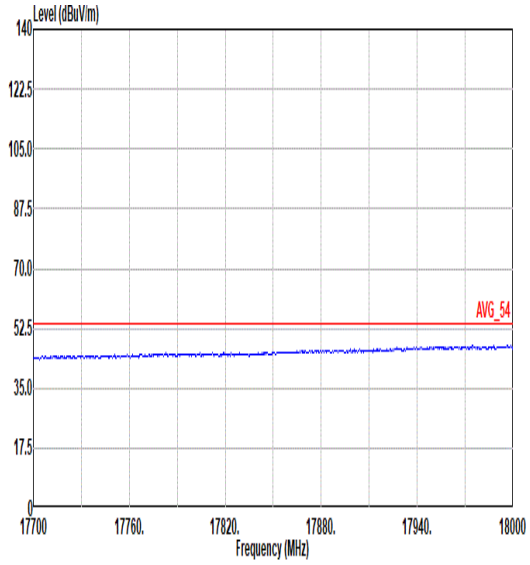
Mode	64	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5855.00 78.00 110.80 -32.80 68.07 34.02 13.85 37.94 0.00 105 59 PEAK 2 5855.13 77.98 110.76 -32.78 68.05 34.02 13.85 37.94 0.00 105 59 PEAK 3 5925.00 51.84 68.20 -16.36 41.56 34.25 13.96 37.93 0.00 105 59 PEAK 4 5926.88 53.44 68.20 -14.76 43.16 34.25 13.96 37.93 0.00 105 59 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 113.86 ------ ------ 104.06 33.95 13.80 37.95 0.00 105 59 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 107.29 ------ ------ 97.51 33.94 13.79 37.95 0.00 105 59 AVERAGE

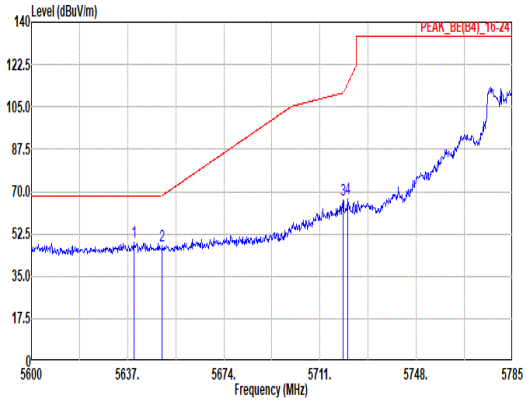
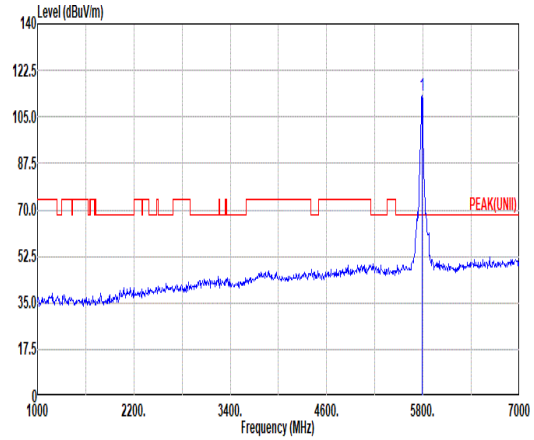
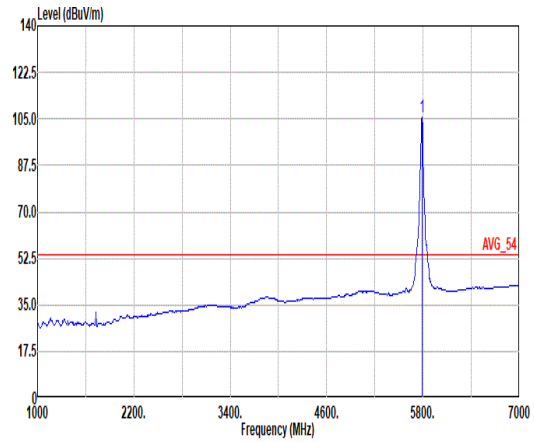
Mode	64	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.63 90.43 111.65 -21.22 80.50 34.02 13.85 37.94 0.00 100 200 PEAK 2 5855.50 89.73 110.66 -20.93 79.80 34.02 13.85 37.94 0.00 100 200 PEAK 3 5921.63 61.59 70.69 -9.10 51.33 34.24 13.95 37.93 0.00 100 200 PEAK 4 5930.88 60.39 68.20 -7.81 50.09 34.26 13.97 37.93 0.00 100 200 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 120.93 ------ ------ 111.13 33.95 13.80 37.95 0.00 100 200 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 115.37 ------ ------ 105.53 33.97 13.82 37.95 0.00 100 200 AVERAGE

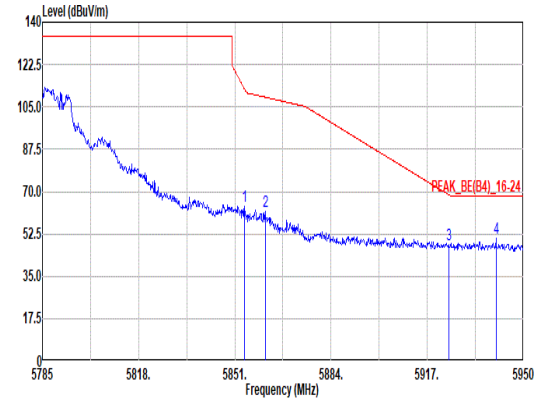
Mode	65	
	Band Edge	
	U-NII-3_5.725-5.85_802.11ax HE20_CH149_Full RU_5745MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5641.91 51.40 68.20 -16.80 42.78 33.07 13.55 38.00 0.00 300 56 PEAK 2 5654.38 58.32 71.45 -13.13 49.62 33.13 13.56 37.99 0.00 300 56 PEAK 3 5719.92 88.25 110.78 -22.53 79.04 33.54 13.65 37.98 0.00 300 56 PEAK 4 5720.06 88.58 110.94 -22.36 79.37 33.54 13.65 37.98 0.00 300 56 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 113.11 ------ ------ 103.77 33.61 13.70 37.97 0.00 300 56 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5745.00 106.66 ------ ------ 97.32 33.61 13.70 37.97 0.00 300 56 AVERAGE

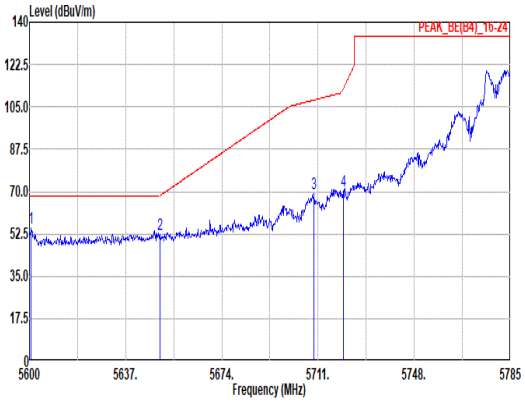
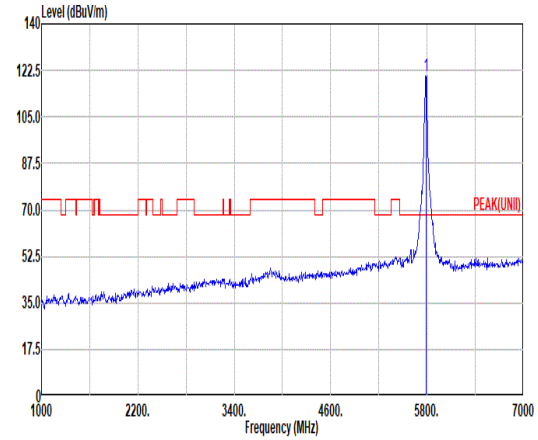
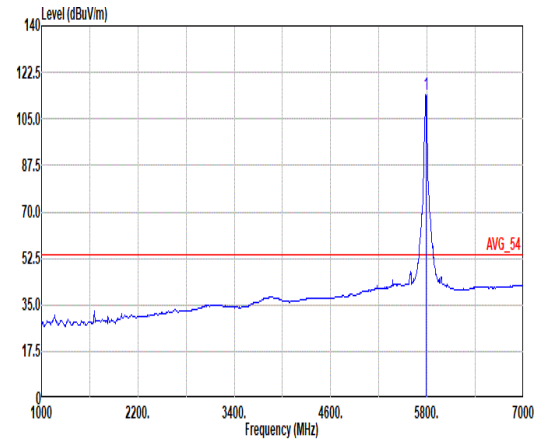
Mode	65	
	Band Edge	
	U-NII-3_5.725-5.85_802.11ax HE20_CH149_Full RU_5745MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5647.85 60.91 68.20 -7.29 52.26 33.09 13.55 37.99 0.00 118 201 PEAK 2 5656.55 64.88 73.07 -8.19 56.15 33.15 13.57 37.99 0.00 118 201 PEAK 3 5714.41 92.83 109.24 -16.41 83.64 33.53 13.64 37.98 0.00 118 201 PEAK 4 5723.54 105.20 118.87 -13.67 95.97 33.55 13.66 37.98 0.00 118 201 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 120.61 ------ ------ 111.27 33.61 13.70 37.97 0.00 118 201 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5745.00 115.53 ------ ------ 106.19 33.61 13.70 37.97 0.00 118 201 AVERAGE

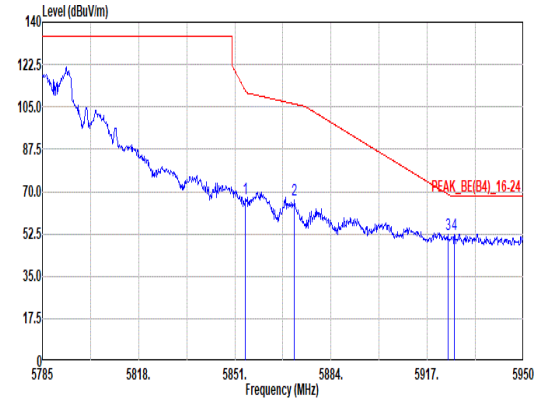
Mode	65	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH149_Full RU_5745MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 51.32 74.00 -22.68 35.05 38.98 19.46 42.64 0.47 148 65 PEAK 2 11490.00 41.63 54.00 -12.37 25.36 38.98 19.46 42.64 0.47 148 65 Average 3 17235.00 53.50 68.20 -14.70 35.42 38.27 24.06 44.77 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11490.00 50.73 74.00 -23.27 34.46 38.98 19.46 42.64 0.47 117 44 PEAK 2 11490.00 41.66 54.00 -12.34 25.39 38.98 19.46 42.64 0.47 117 44 Average 3 17235.00 58.28 68.20 -9.92 40.20 38.27 24.06 44.77 0.52 300 140 PEAK

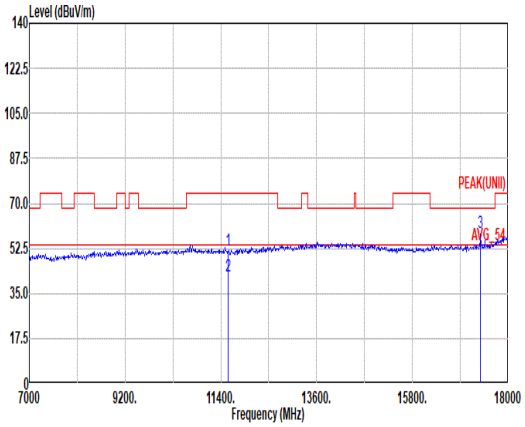
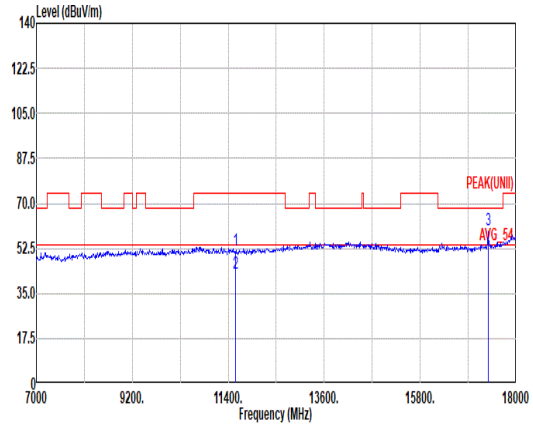
Mode	65	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH149_Full RU_5745MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 VERTICAL

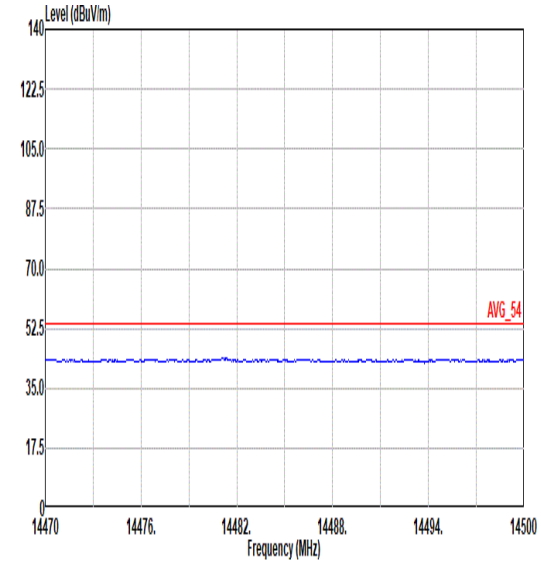
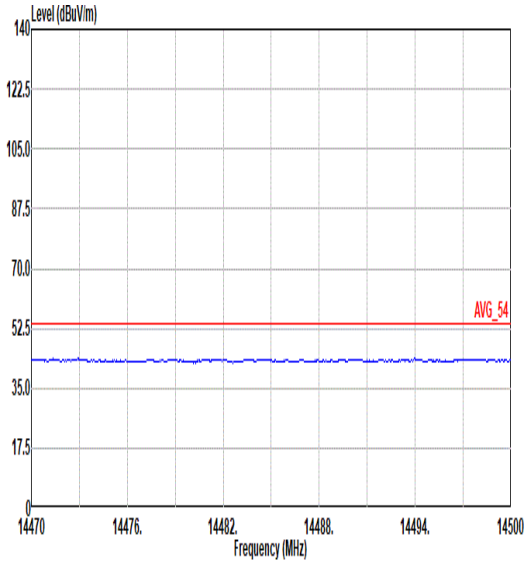
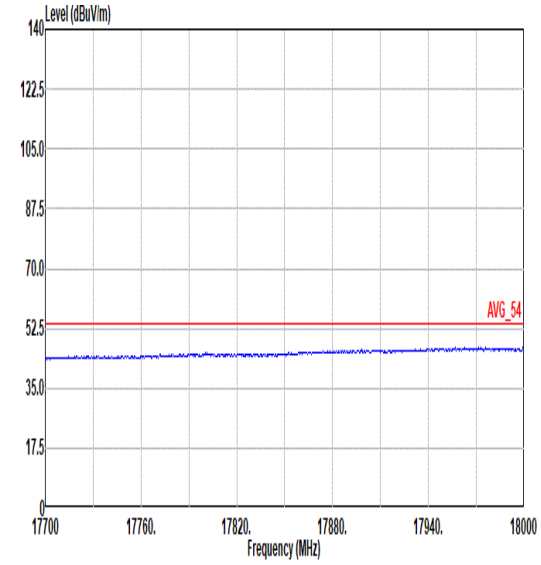
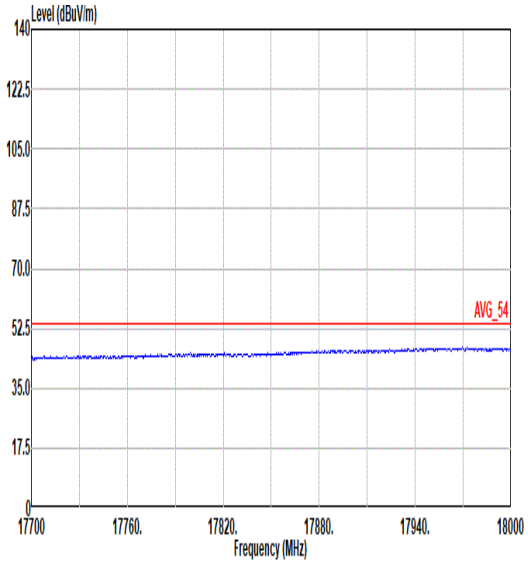
Mode	66	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02038_240729 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5639.59 49.05 68.20 -19.15 40.57 32.94 13.54 38.00 0.00 100 47 PEAK 2 5650.32 47.64 68.44 -20.80 39.07 33.00 13.56 37.99 0.00 100 47 PEAK 3 5719.88 66.71 110.77 -44.06 57.56 33.48 13.65 37.98 0.00 100 47 PEAK 4 5721.55 66.88 114.32 -47.44 57.72 33.49 13.65 37.98 0.00 100 47	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 113.31 ------ ------ 103.70 33.83 13.74 37.96 0.00 100 47 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 105.87 ------ ------ 96.26 33.83 13.74 37.96 0.00 100 47 AVERAGE

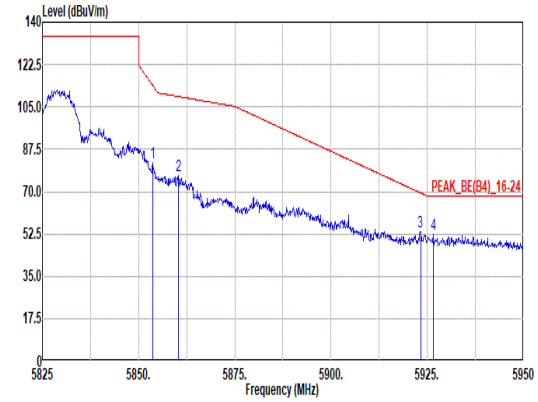
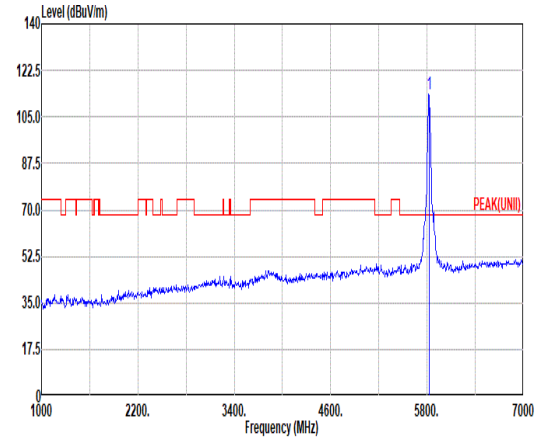
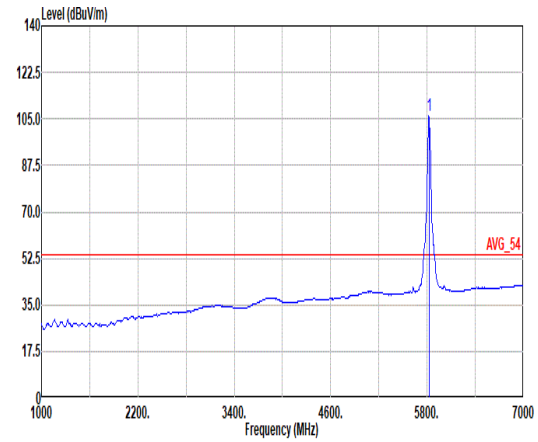
Mode	66	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02038_240729 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.30 64.08 112.40 -48.32 54.15 34.02 13.85 37.94 0.00 100 47 PEAK 2 5861.40 61.64 109.01 -47.37 51.67 34.05 13.86 37.94 0.00 100 47 PEAK 3 5924.43 47.97 68.62 -20.65 37.79 34.15 13.96 37.93 0.00 100 47 PEAK 4 5940.60 50.53 68.20 -17.67 40.35 34.12 13.98 37.92 0.00 100 47 PEAK	Blank

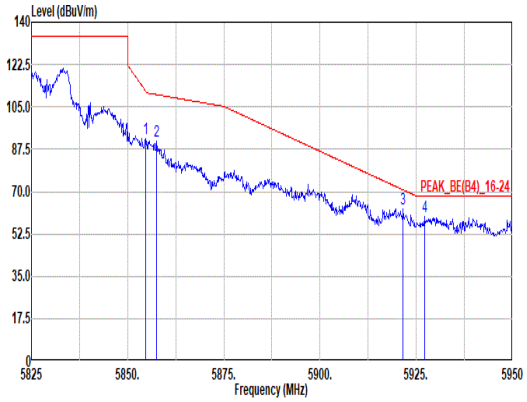
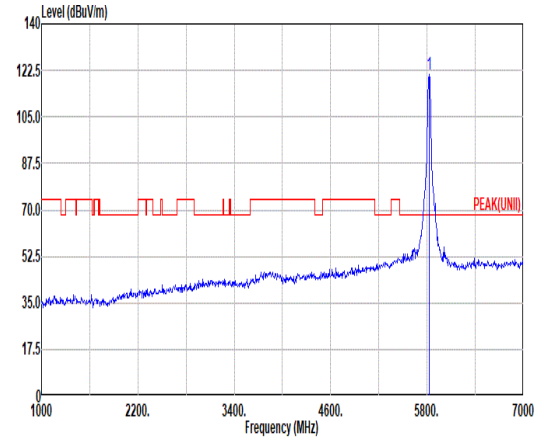
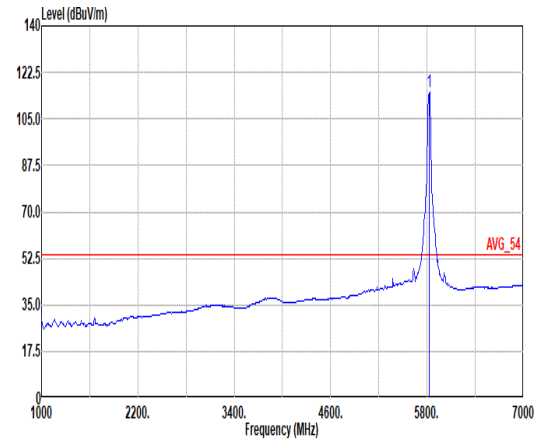
Mode	66	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02038_240729 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5600.74 55.03 68.20 -13.17 46.85 32.70 13.49 38.01 0.00 100 323 PEAK 2 5650.14 52.30 68.30 -16.00 43.73 33.00 13.56 37.99 0.00 100 323 PEAK 3 5709.52 69.23 107.87 -38.64 60.13 33.44 13.64 37.98 0.00 100 323 PEAK 4 5720.62 70.43 112.21 -41.78 61.28 33.48 13.65 37.98 0.00 100 323 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 120.56 ------ ------ 110.99 33.79 13.74 37.96 0.00 100 323 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5785.00 114.30 ------ ------ 104.65 33.86 13.75 37.96 0.00 100 323 AVERAGE

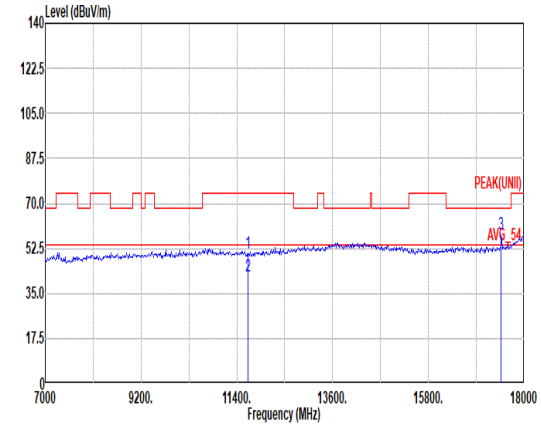
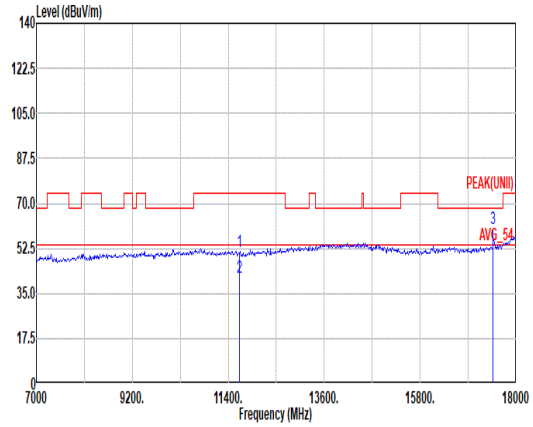
Mode	66	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02038_240729 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.63 67.10 111.64 -44.54 57.17 34.02 13.85 37.94 0.00 100 323 PEAK 2 5871.46 66.82 106.19 -39.37 56.80 34.09 13.87 37.94 0.00 100 323 PEAK 3 5924.10 52.17 68.87 -16.70 41.99 34.15 13.96 37.93 0.00 100 323 PEAK 4 5926.41 52.44 68.20 -15.76 42.26 34.15 13.96 37.93 0.00 100 323 PEAK	Blank

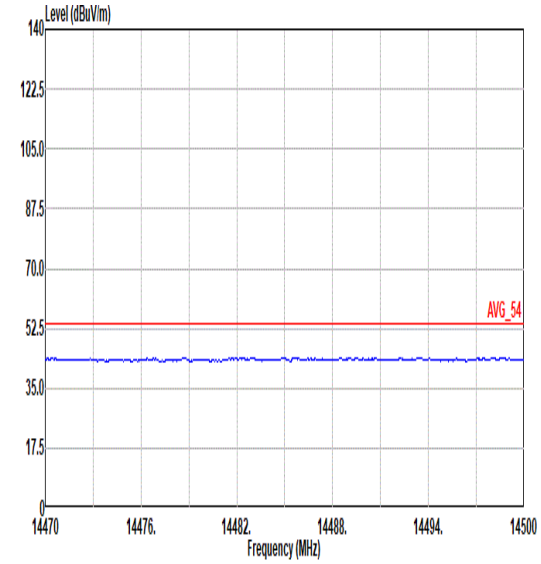
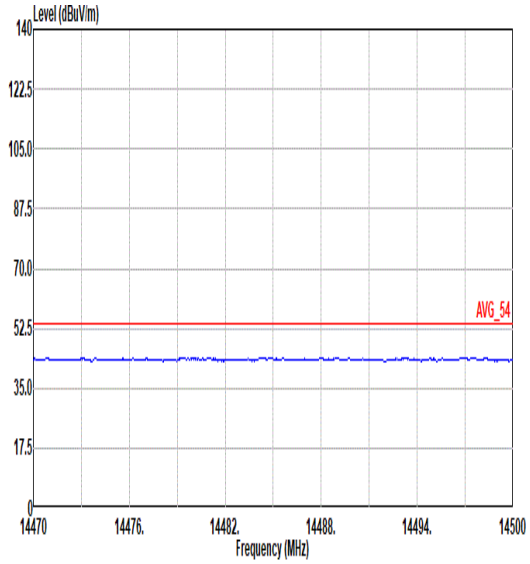
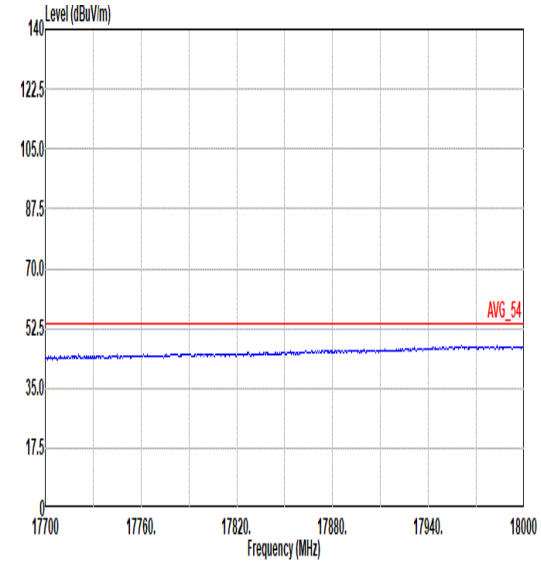
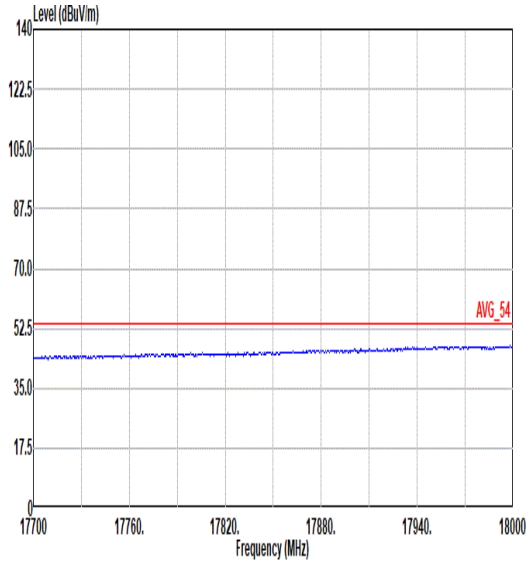
Mode	66	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 51.52 74.00 -22.48 35.41 38.82 19.53 42.71 0.47 354 18 PEAK 2 11570.00 41.85 54.00 -12.15 25.74 38.82 19.53 42.71 0.47 354 18 Average 3 17355.00 58.47 68.20 -9.73 40.36 38.33 24.14 44.88 0.52 354 258 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 51.52 74.00 -22.48 35.41 38.82 19.53 42.71 0.47 115 354 PEAK 2 11570.00 42.79 54.00 -11.21 26.68 38.82 19.53 42.71 0.47 115 354 Average 3 17355.00 59.59 68.20 -8.61 41.48 38.33 24.14 44.88 0.52 125 119 PEAK

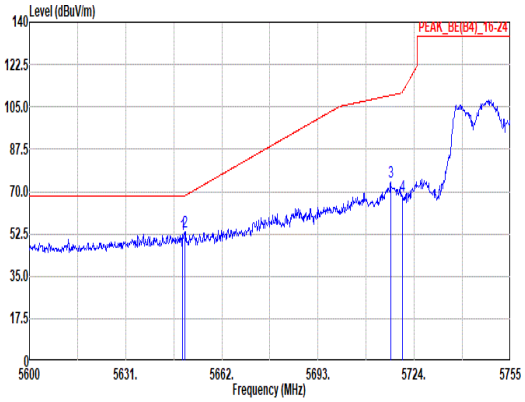
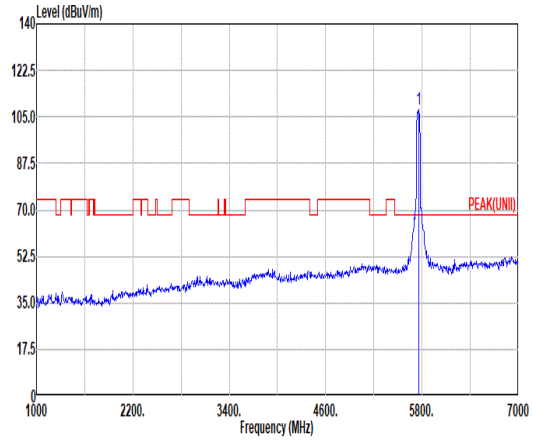
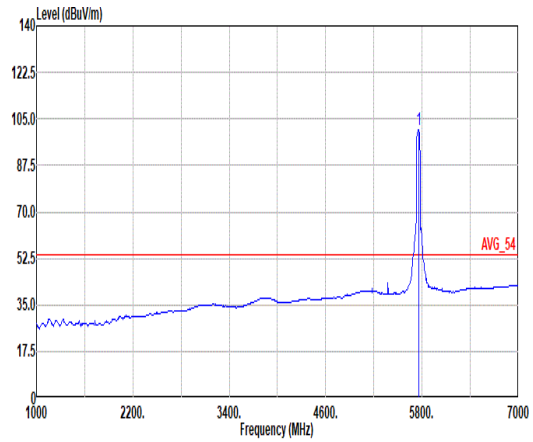
Mode	66	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH157_Full RU_5785MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

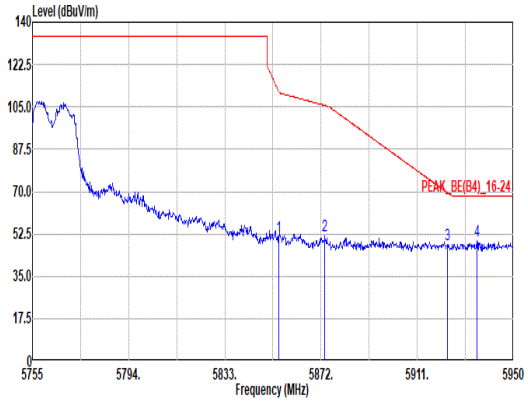
Mode	67	
	Band Edge	
	U-NII-3_5.725-5.85_802.11ax HE20_CH165_Full RU_5825MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5853.63 81.77 113.93 -32.16 71.86 34.01 13.85 37.95 0.00 102 62 PEAK 2 5860.38 76.37 109.29 -32.92 66.41 34.04 13.86 37.94 0.00 102 62 PEAK 3 5923.25 53.46 69.49 -16.03 43.18 34.25 13.96 37.93 0.00 102 62 PEAK 4 5926.50 52.08 68.20 -16.12 41.80 34.25 13.96 37.93 0.00 102 62 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 113.46 ------ ------ 103.68 33.94 13.79 37.95 0.00 102 62 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5825.00 106.41 ------ ------ 96.63 33.94 13.79 37.95 0.00 102 62 AVERAGE

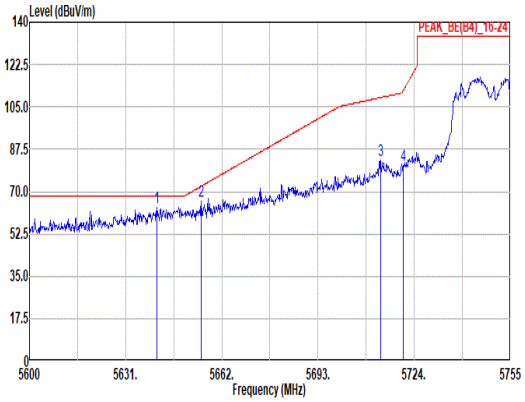
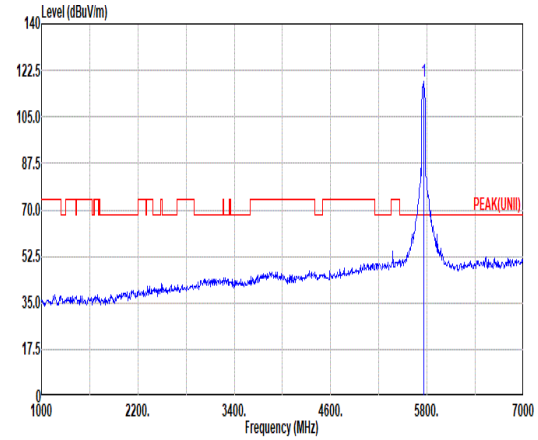
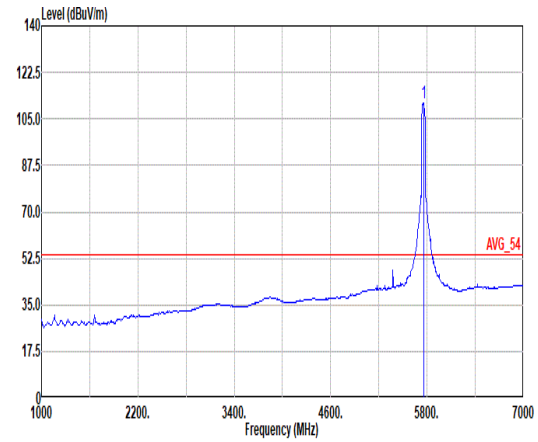
Mode	67	
	Band Edge	
	U-NII-3_5.725-5.85_802.11ax HE20_CH165_Full RU_5825MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.75 91.81 111.37 -19.56 81.88 34.02 13.85 37.94 0.00 135 360 PEAK 2 5857.50 90.69 110.10 -19.41 80.75 34.03 13.85 37.94 0.00 135 360 PEAK 3 5921.63 63.02 70.69 -7.67 52.76 34.24 13.95 37.93 0.00 135 360 PEAK 4 5927.13 59.45 68.20 -8.75 49.17 34.25 13.96 37.93 0.00 135 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 120.97 ------ ------ 111.17 33.95 13.80 37.95 0.00 135 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5825.00 115.10 ------ ------ 105.26 33.97 13.82 37.95 0.00 135 360 AVERAGE

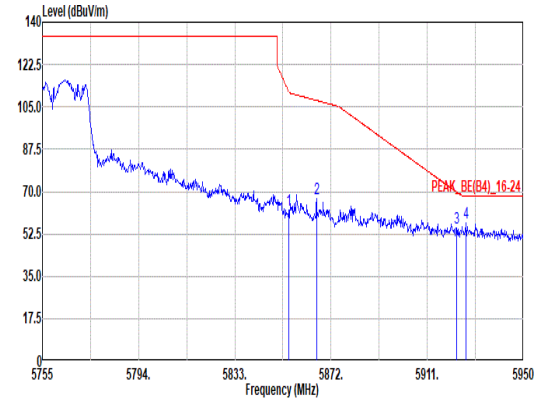
Mode	67	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH165_Full RU_5825MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 50.47 74.00 -23.53 34.69 38.50 19.60 42.78 0.46 300 162 PEAK 2 11650.00 41.82 54.00 -12.18 26.04 38.50 19.60 42.78 0.46 300 162 Average 3 17475.00 58.37 68.20 -9.83 40.21 38.40 24.22 44.99 0.53 205 142 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02038_240729 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 51.26 74.00 -22.74 35.48 38.50 19.60 42.78 0.46 154 87 PEAK 2 11650.00 41.44 54.00 -12.56 25.66 38.50 19.60 42.78 0.46 154 87 Average 3 17475.00 60.28 68.20 -7.92 42.12 38.40 24.22 44.99 0.53 200 198 PEAK

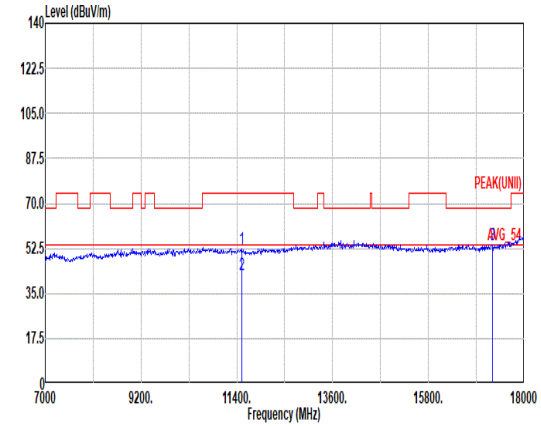
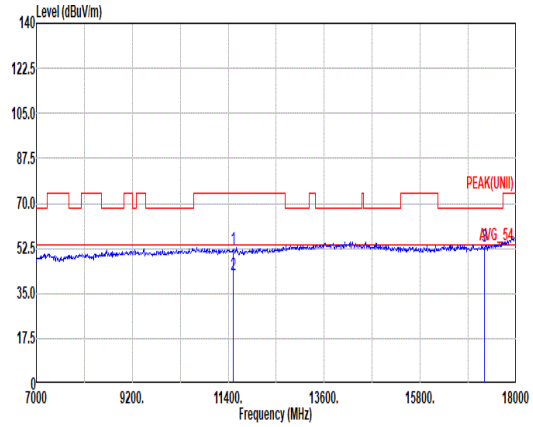
Mode	67	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE20_CH165_Full RU_5825MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02038_240729 VERTICAL

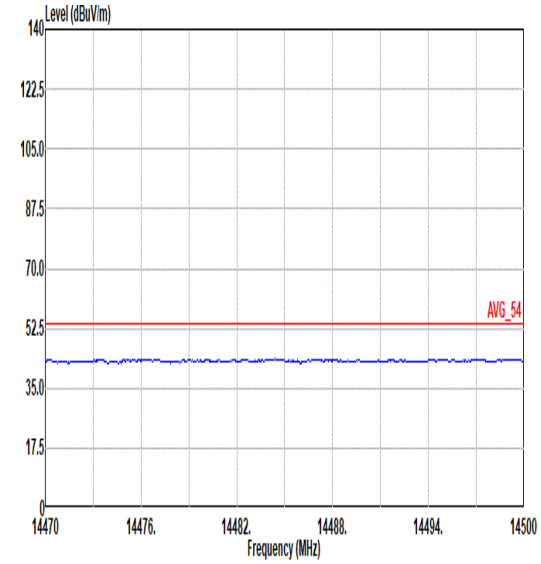
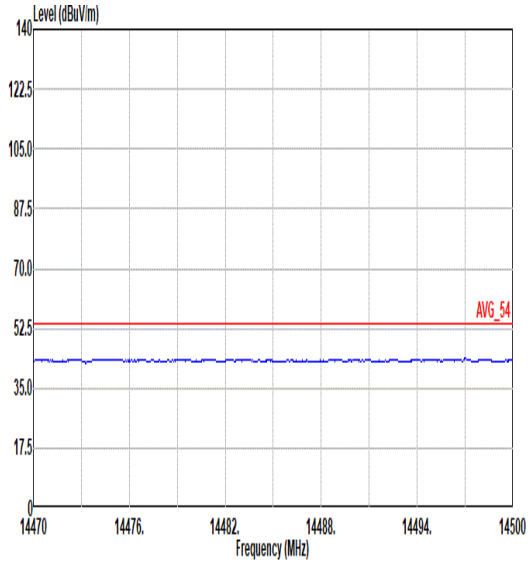
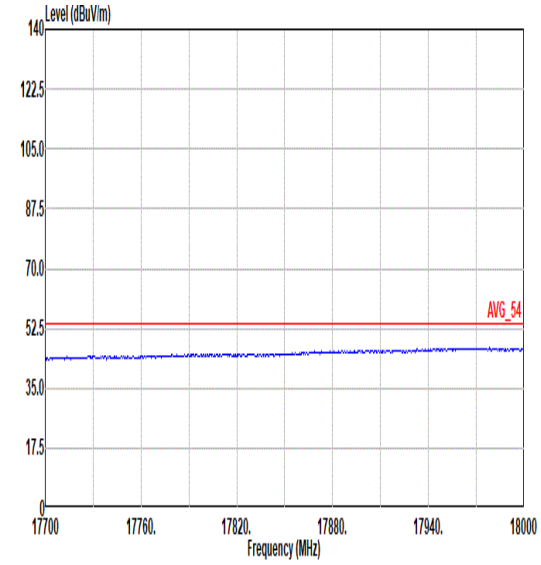
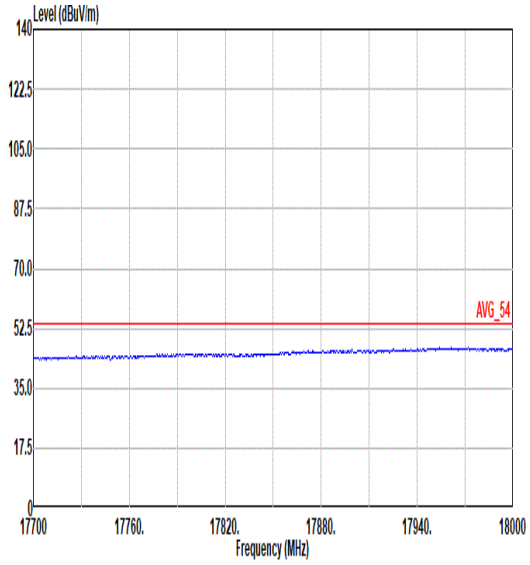
Mode	68	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5649.45 52.16 68.20 -16.04 43.49 33.10 13.56 37.99 0.00 100 300 PEAK 2 5650.07 53.49 68.25 -14.76 44.82 33.10 13.56 37.99 0.00 100 300 PEAK 3 5716.41 73.99 109.79 -35.80 64.79 33.53 13.65 37.98 0.00 100 300 PEAK 4 5720.13 67.92 111.09 -43.17 58.71 33.54 13.65 37.98 0.00 100 300 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 107.57 ------ ------ 98.19 33.65 13.70 37.97 0.00 100 300 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 101.15 ------ ------ 91.84 33.59 13.69 37.97 0.00 100 300 AVERAGE

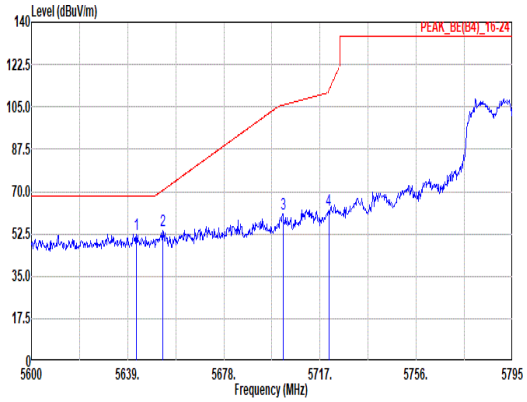
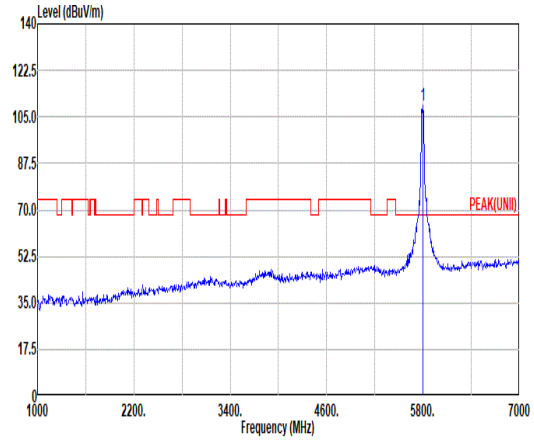
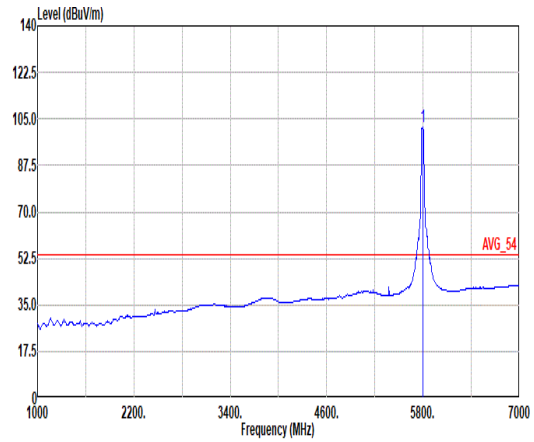
Mode	68	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.84 51.23 111.17 -59.94 41.30 34.02 13.85 37.94 0.00 100 300 PEAK 2 5873.56 51.78 105.60 -53.82 41.75 34.09 13.88 37.94 0.00 100 300 PEAK 3 5923.29 48.34 69.46 -21.12 38.06 34.25 13.96 37.93 0.00 100 300 PEAK 4 5935.18 49.87 68.20 -18.33 39.55 34.27 13.98 37.93 0.00 100 300 PEAK	Blank

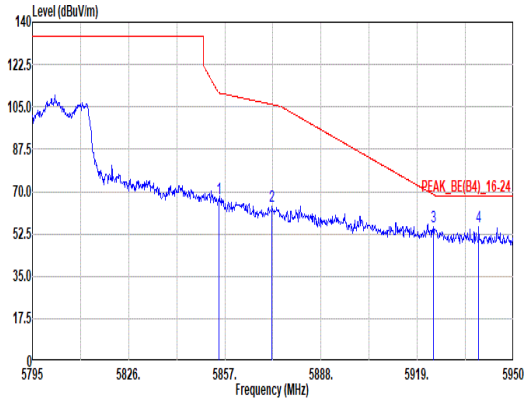
Mode	68	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5641.08 63.26 68.20 -4.94 54.65 33.06 13.55 38.00 0.00 122 0 PEAK 2 5655.34 65.80 72.16 -6.36 57.09 33.14 13.56 37.99 0.00 122 0 PEAK 3 5713.15 82.88 108.88 -26.00 73.69 33.53 13.64 37.98 0.00 122 0 PEAK 4 5720.44 80.97 111.79 -30.82 71.76 33.54 13.65 37.98 0.00 122 0 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 118.20 ------ ------ 108.78 33.68 13.71 37.97 0.00 122 0 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 110.94 ------ ------ 101.60 33.61 13.70 37.97 0.00 122 0 AVERAGE

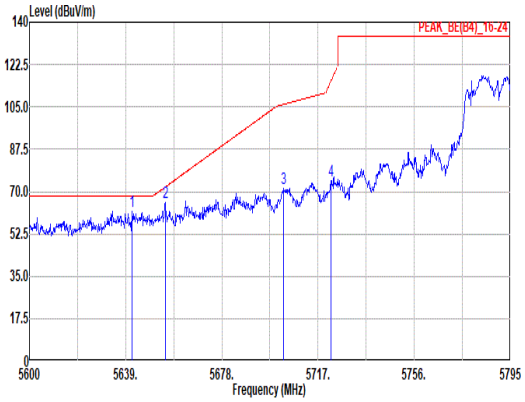
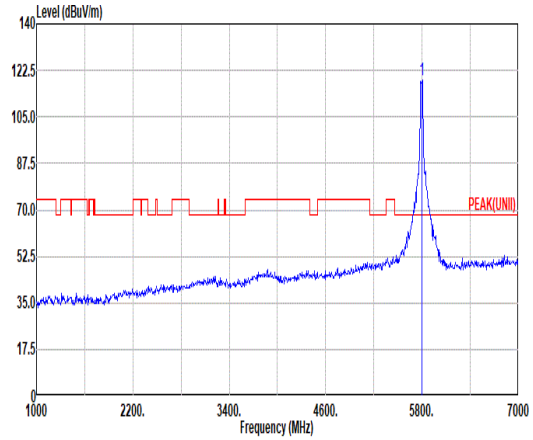
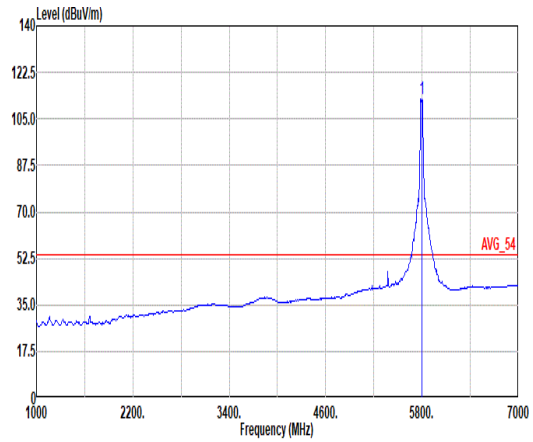
Mode	68	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.84 62.40 111.17 -48.77 52.47 34.02 13.85 37.94 0.00 122 0 PEAK 2 5866.15 67.01 107.68 -40.67 57.02 34.06 13.87 37.94 0.00 122 0 PEAK 3 5922.90 55.11 69.75 -14.64 44.83 34.25 13.96 37.93 0.00 122 0 PEAK 4 5926.80 57.20 68.20 -11.00 46.92 34.25 13.96 37.93 0.00 122 0 PEAK	Blank

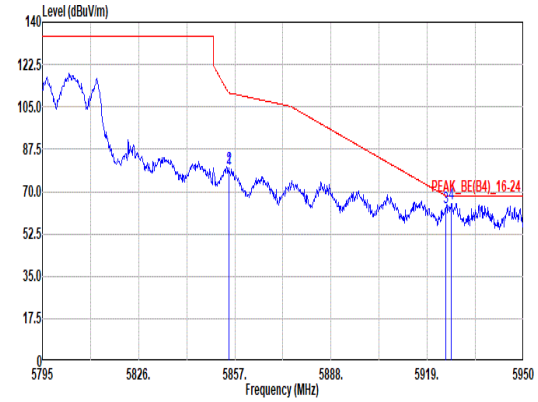
Mode	68	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 52.05 74.00 -21.95 35.70 39.06 19.48 42.66 0.47 355 144 PEAK 2 11510.00 42.24 54.00 -11.76 25.89 39.06 19.48 42.66 0.47 355 144 Average 3 17265.00 53.78 68.20 -14.42 35.70 38.27 24.08 44.79 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 52.36 74.00 -21.64 36.01 39.06 19.48 42.66 0.47 154 248 PEAK 2 11510.00 42.43 54.00 -11.57 26.08 39.06 19.48 42.66 0.47 154 248 Average 3 17265.00 53.19 68.20 -15.01 35.11 38.27 24.08 44.79 0.52 -- -- PEAK

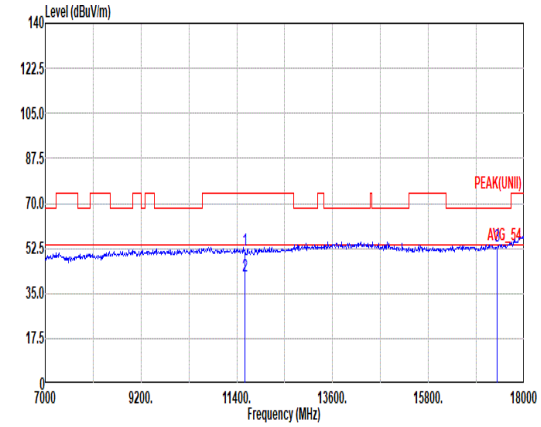
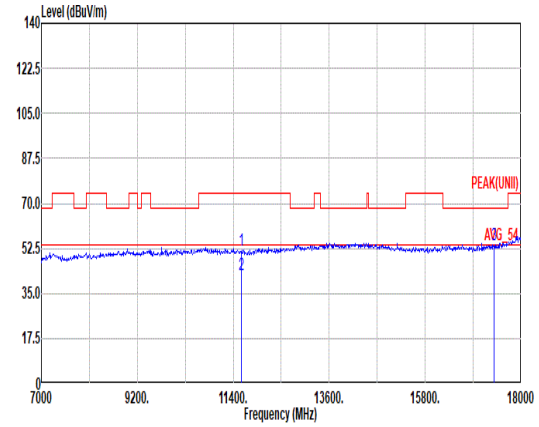
Mode	68	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

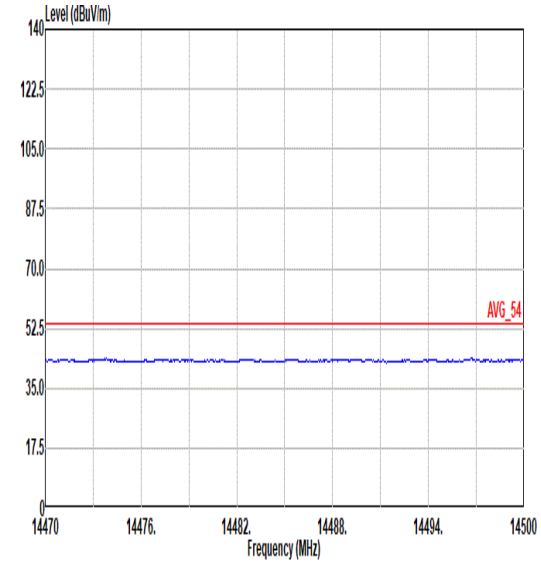
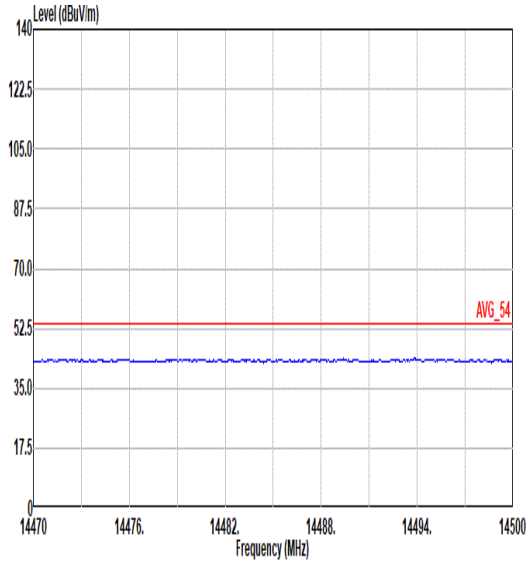
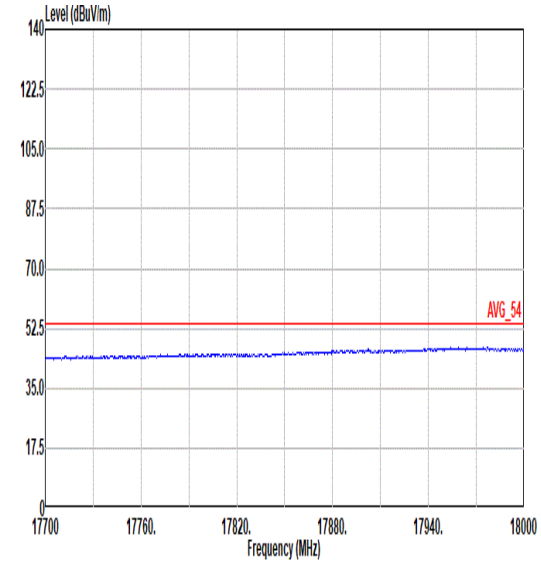
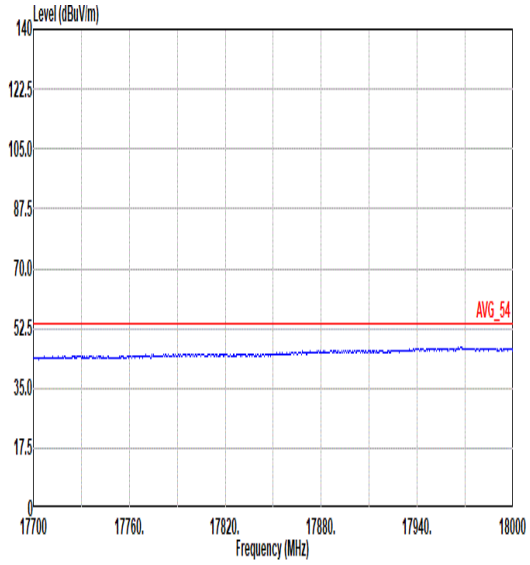
Mode	69	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5642.51 52.47 68.20 -15.73 43.85 33.07 13.55 38.00 0.00 100 54 PEAK 2 5653.24 53.79 70.60 -16.81 45.09 33.13 13.56 37.99 0.00 100 54 PEAK 3 5701.99 60.73 105.76 -45.03 51.58 33.50 13.63 37.98 0.00 100 54 PEAK 4 5720.51 62.30 111.96 -49.66 53.09 33.54 13.65 37.98 0.00 100 54 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 109.47 ------ ------ 99.82 33.86 13.75 37.96 0.00 100 54 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 101.86 ------ ------ 92.21 33.86 13.75 37.96 0.00 100 54 AVERAGE

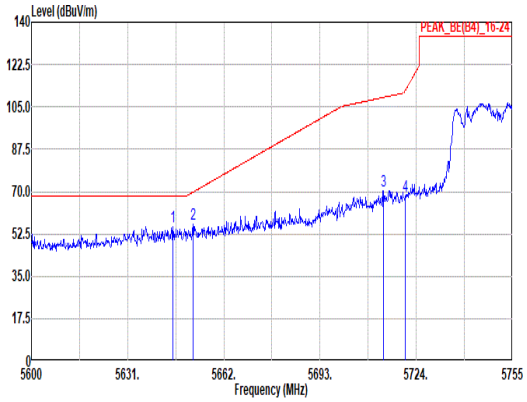
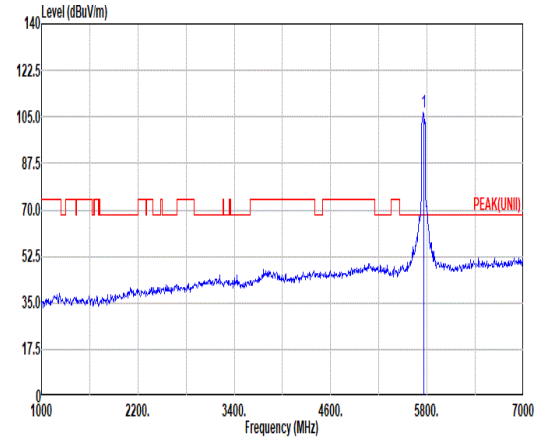
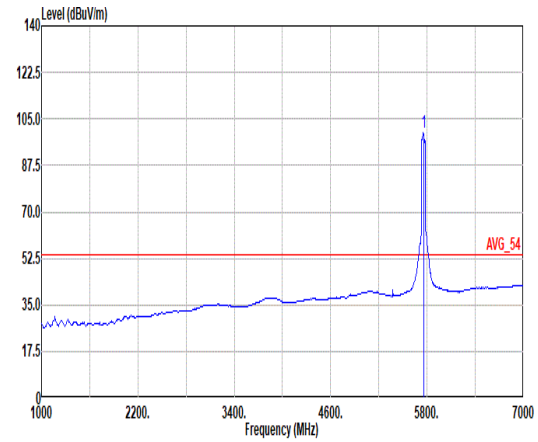
Mode	69	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.99 67.35 110.83 -43.48 57.42 34.02 13.85 37.94 0.00 100 54 PEAK 2 5872.19 63.96 105.99 -42.03 53.93 34.09 13.88 37.94 0.00 100 54 PEAK 3 5924.12 55.62 68.85 -13.23 45.34 34.25 13.96 37.93 0.00 100 54 PEAK 4 5938.84 55.41 68.20 -12.79 45.07 34.28 13.98 37.92 0.00 100 54 PEAK	Blank

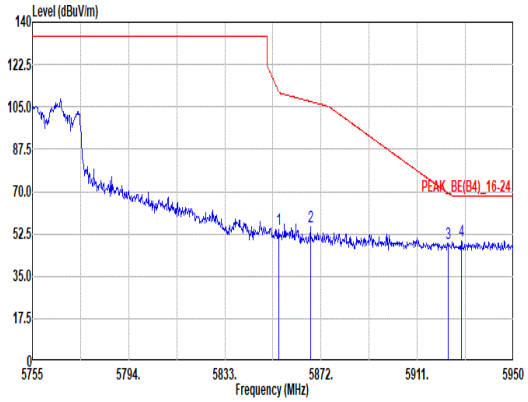
Mode	69	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5641.73 61.88 68.20 -6.32 53.26 33.07 13.55 38.00 0.00 126 360 PEAK 2 5654.99 65.71 71.91 -6.20 57.00 33.14 13.56 37.99 0.00 126 360 PEAK 3 5703.16 71.11 106.08 -34.97 61.95 33.51 13.63 37.98 0.00 126 360 PEAK 4 5722.27 74.54 115.97 -41.43 65.32 33.54 13.66 37.98 0.00 126 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5795.00 118.60 ------ ------ 108.88 33.91 13.77 37.96 0.00 126 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5795.00 112.51 ------ ------ 102.86 33.86 13.75 37.96 0.00 126 360 AVERAGE

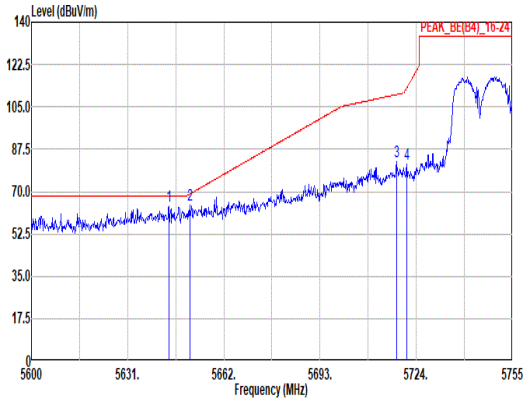
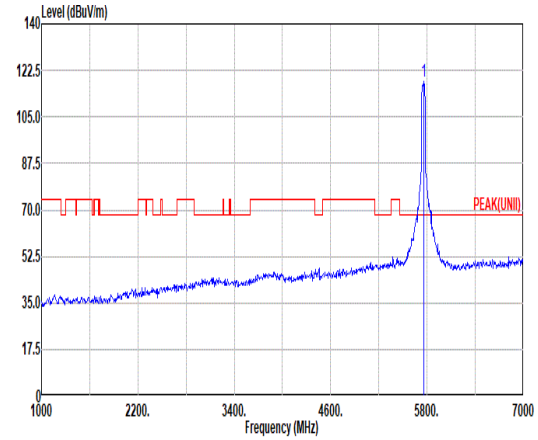
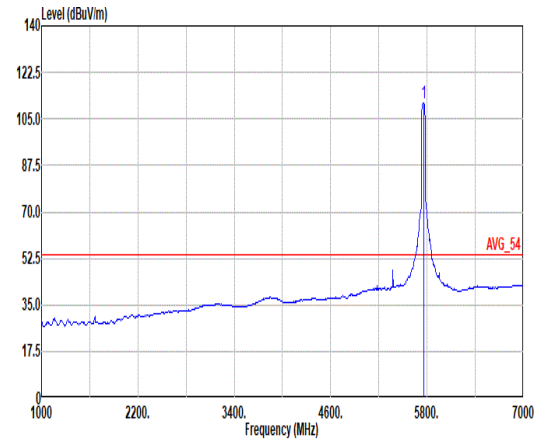
Mode	69	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.99 79.45 110.83 -31.38 69.52 34.02 13.85 37.94 0.00 126 360 PEAK 2 5855.14 79.53 110.76 -31.23 69.60 34.02 13.85 37.94 0.00 126 360 PEAK 3 5924.89 63.16 68.28 -5.12 52.88 34.25 13.96 37.93 0.00 126 360 PEAK 4 5926.75 64.77 68.20 -3.43 54.49 34.25 13.96 37.93 0.00 126 360 PEAK	Blank

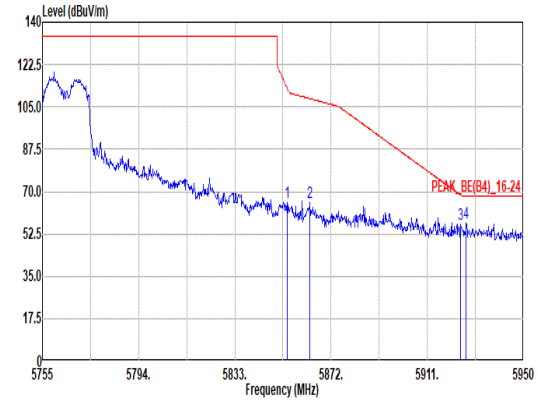
Mode	69	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 51.76 74.00 -22.24 35.73 38.74 19.55 42.73 0.47 299 21 PEAK 2 11590.00 41.91 54.00 -12.09 25.88 38.74 19.55 42.73 0.47 299 21 Average 3 17385.00 53.57 68.20 -14.63 35.28 38.51 24.16 44.90 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 52.01 74.00 -21.99 35.98 38.74 19.55 42.73 0.47 154 248 PEAK 2 11590.00 42.13 54.00 -11.87 26.10 38.74 19.55 42.73 0.47 154 248 Average 3 17385.00 53.71 68.20 -14.49 35.42 38.51 24.16 44.90 0.52 -- -- PEAK

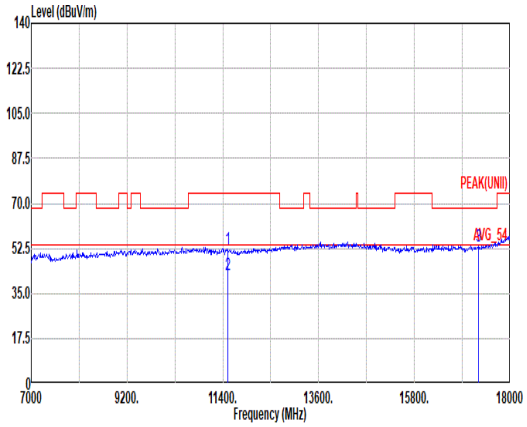
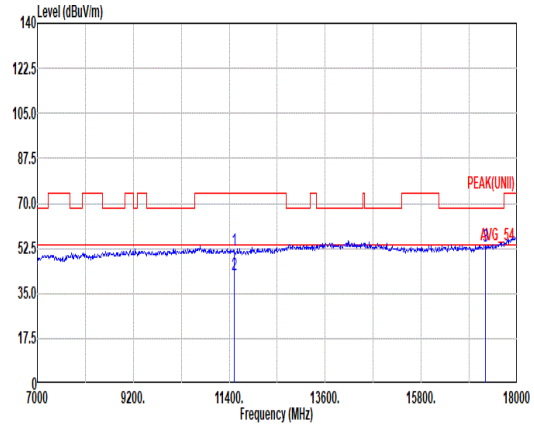
Mode	69	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT40_CH159_5795MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

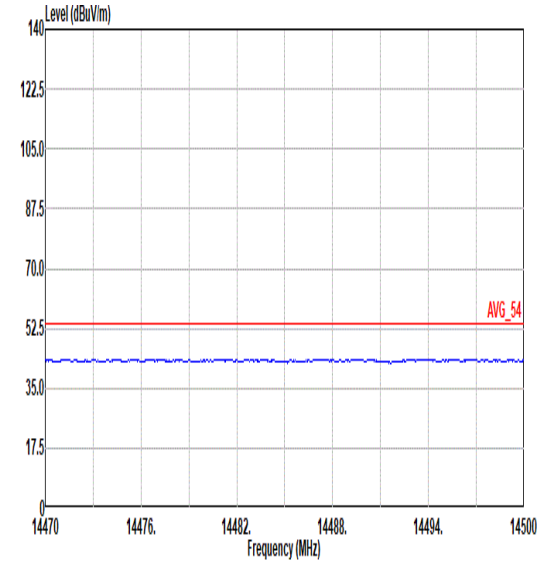
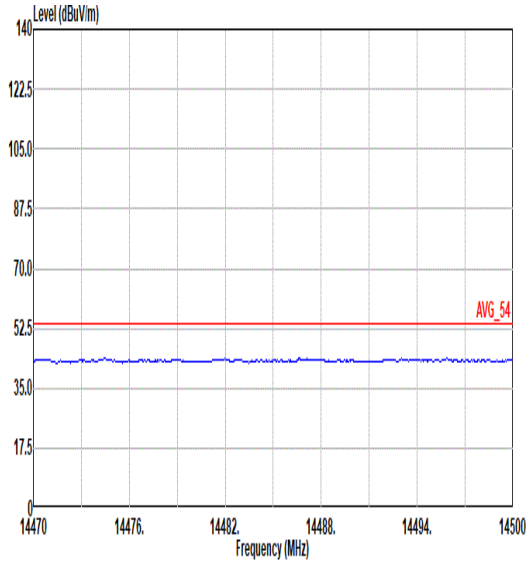
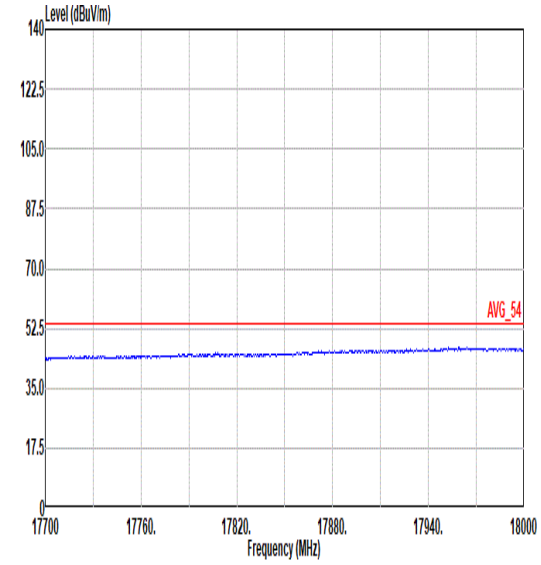
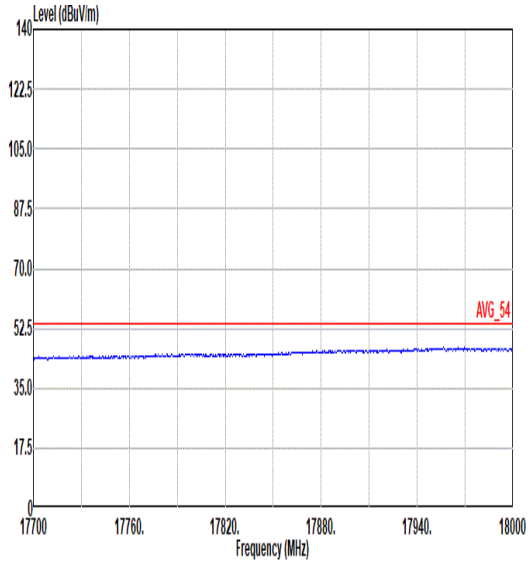
Mode	70	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5645.57 55.46 68.20 -12.74 46.83 33.08 13.55 38.00 0.00 100 60 PEAK 2 5652.08 56.41 69.75 -13.34 47.72 33.12 13.56 37.99 0.00 100 60 PEAK 3 5713.46 70.36 108.97 -38.61 61.17 33.53 13.64 37.98 0.00 100 60 PEAK 4 5720.44 68.32 111.79 -43.47 59.11 33.54 13.65 37.98 0.00 100 60 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 106.74 ------ ------ 97.43 33.59 13.69 37.97 0.00 100 60 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 99.64 ------ ------ 90.33 33.59 13.69 37.97 0.00 100 60 AVERAGE

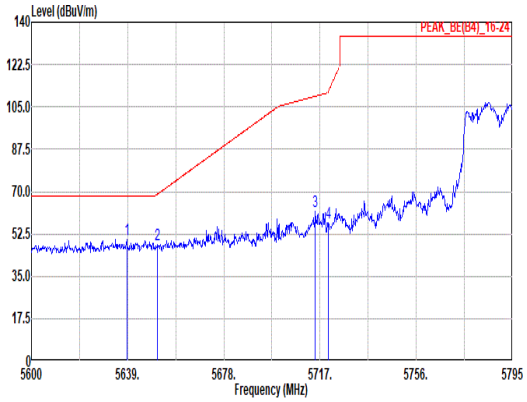
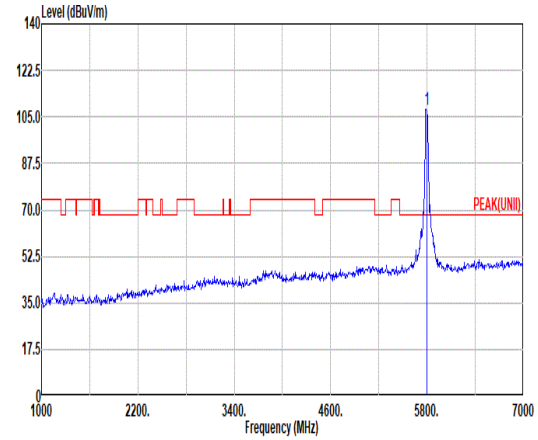
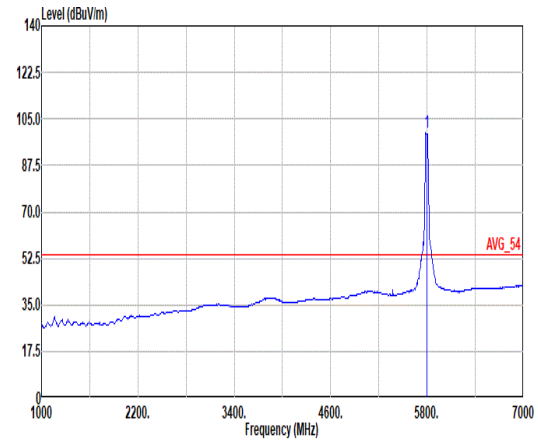
Mode	70	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.84 54.22 111.17 -56.95 44.29 34.02 13.85 37.94 0.00 100 60 PEAK 2 5867.71 55.28 107.24 -51.96 45.28 34.07 13.87 37.94 0.00 100 60 PEAK 3 5923.68 48.63 69.18 -20.55 38.35 34.25 13.96 37.93 0.00 100 60 PEAK 4 5928.94 49.81 68.20 -18.39 39.51 34.26 13.97 37.93 0.00 100 60 PEAK	Blank

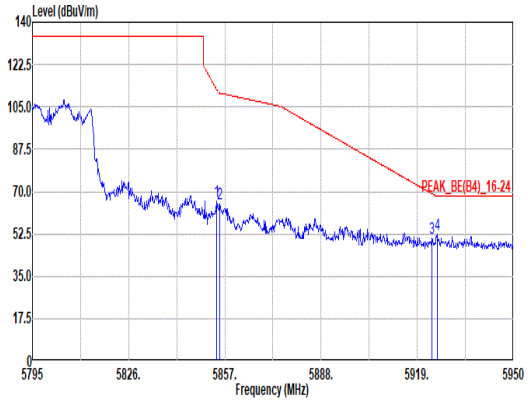
Mode	70	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5644.33 64.07 68.20 -4.13 55.44 33.08 13.55 38.00 0.00 124 360 PEAK 2 5651.00 64.57 68.94 -4.37 55.89 33.11 13.56 37.99 0.00 124 360 PEAK 3 5717.65 82.65 110.14 -27.49 73.44 33.54 13.65 37.98 0.00 124 360 PEAK 4 5721.06 81.39 113.21 -31.82 72.18 33.54 13.65 37.98 0.00 124 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 118.41 ------ ------ 109.03 33.65 13.70 37.97 0.00 124 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5755.00 110.99 ------ ------ 101.61 33.65 13.70 37.97 0.00 124 360 AVERAGE

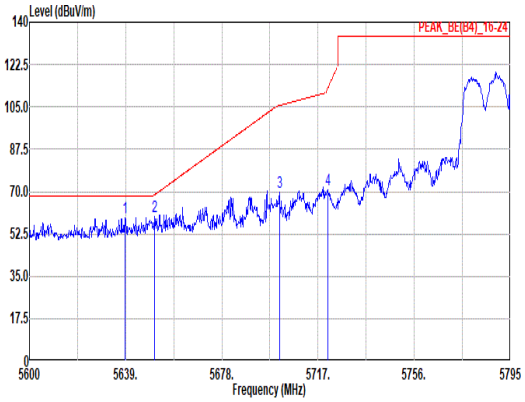
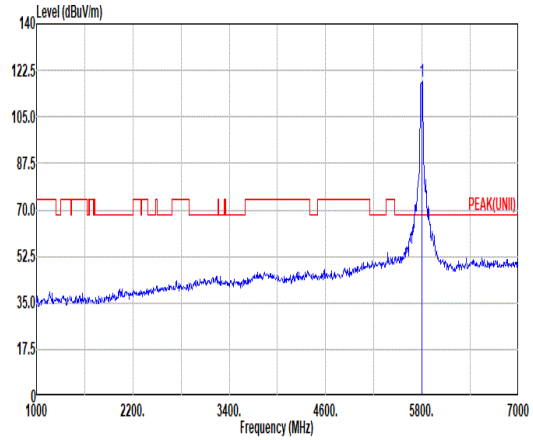
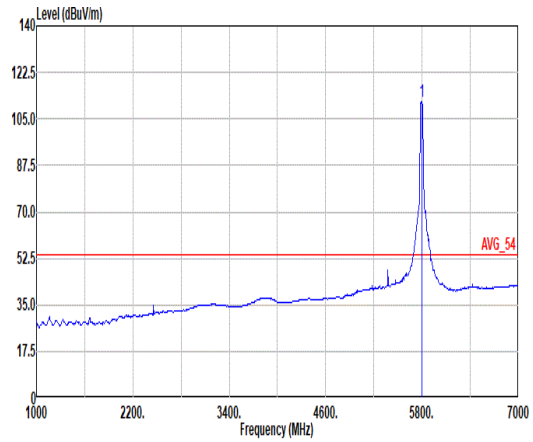
Mode	70	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Level Read Factor Ant Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.26 65.53 112.50 -46.97 55.60 34.02 13.85 37.94 0.00 124 360 PEAK 2 5863.42 65.63 108.44 -42.81 55.66 34.05 13.86 37.94 0.00 124 360 PEAK 3 5924.46 56.51 68.60 -12.09 46.23 34.25 13.96 37.93 0.00 124 360 PEAK 4 5926.80 57.10 68.20 -11.10 46.82 34.25 13.96 37.93 0.00 124 360 PEAK	Blank

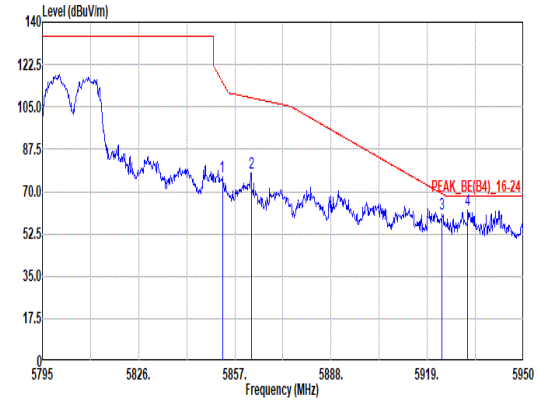
Mode	70	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 52.24 74.00 -21.76 35.89 39.06 19.48 42.66 0.47 314 25 PEAK 2 11510.00 42.02 54.00 -11.98 25.67 39.06 19.48 42.66 0.47 314 25 Average 3 17265.00 53.58 68.20 -14.62 35.50 38.27 24.08 44.79 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11510.00 51.89 74.00 -22.11 35.54 39.06 19.48 42.66 0.47 154 215 PEAK 2 11510.00 42.48 54.00 -11.52 26.13 39.06 19.48 42.66 0.47 154 215 Average 3 17265.00 53.45 68.20 -14.75 35.37 38.27 24.08 44.79 0.52 -- -- PEAK

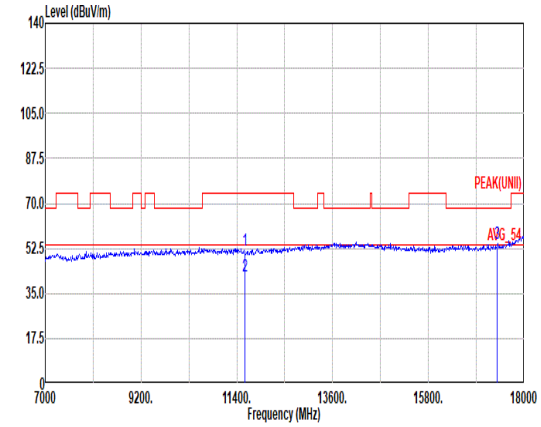
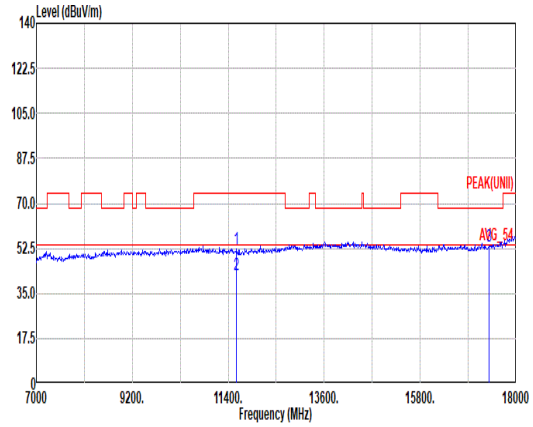
Mode	70	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE40_CH151_Full RU_5755MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

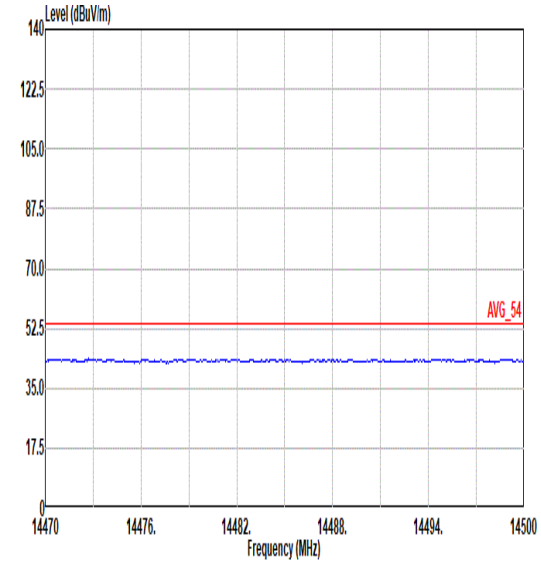
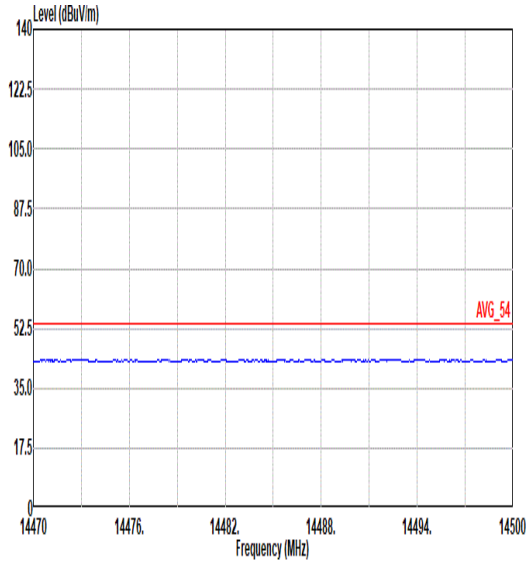
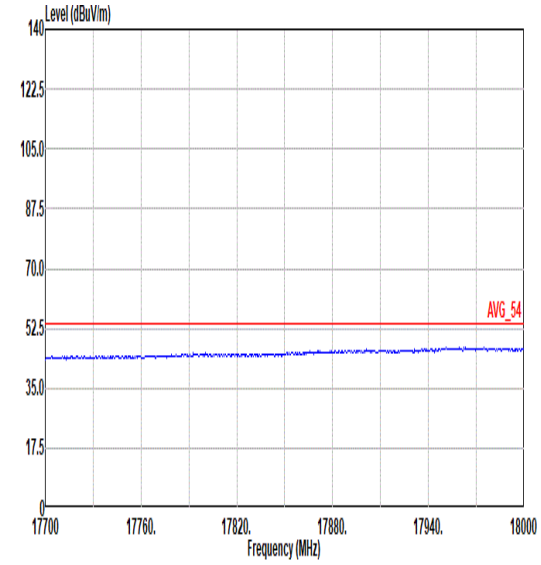
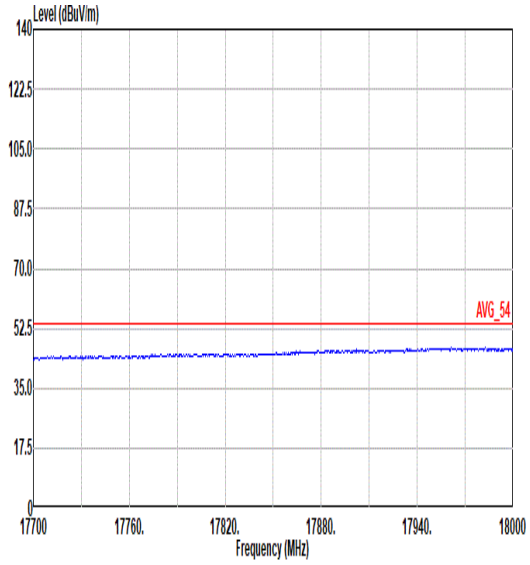
Mode	71	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5638.61 50.15 68.20 -18.05 41.56 33.05 13.54 38.00 0.00 100 61 PEAK 2 5651.09 48.27 69.01 -20.74 39.59 33.11 13.56 37.99 0.00 100 61 PEAK 3 5715.05 61.80 109.42 -47.62 52.60 33.53 13.65 37.98 0.00 100 61 PEAK 4 5720.32 57.06 111.52 -54.46 47.85 33.54 13.65 37.98 0.00 100 61 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 107.74 ------ ------ 98.17 33.79 13.74 37.96 0.00 100 61 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 99.60 ------ ------ 90.03 33.79 13.74 37.96 0.00 100 61 AVERAGE

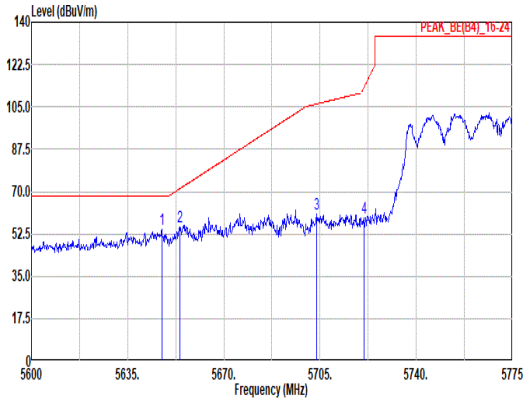
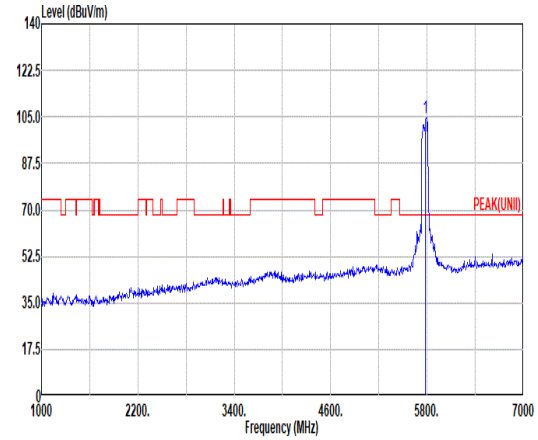
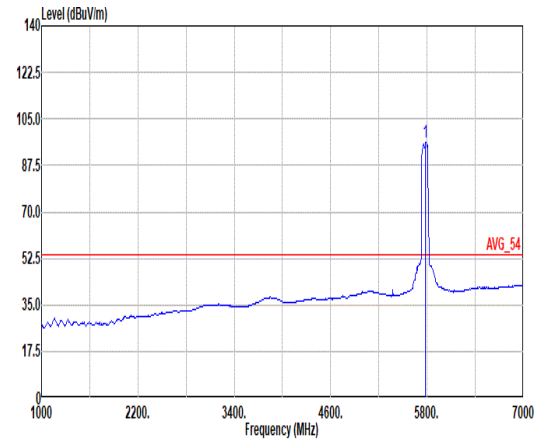
Mode	71	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.37 66.12 112.25 -46.13 56.19 34.02 13.85 37.94 0.00 100 61 PEAK 2 5855.45 65.02 110.67 -45.65 55.09 34.02 13.85 37.94 0.00 100 61 PEAK 3 5923.65 50.50 69.19 -18.69 40.22 34.25 13.96 37.93 0.00 100 61 PEAK 4 5925.36 52.55 68.20 -15.65 42.27 34.25 13.96 37.93 0.00 100 61 PEAK	Blank

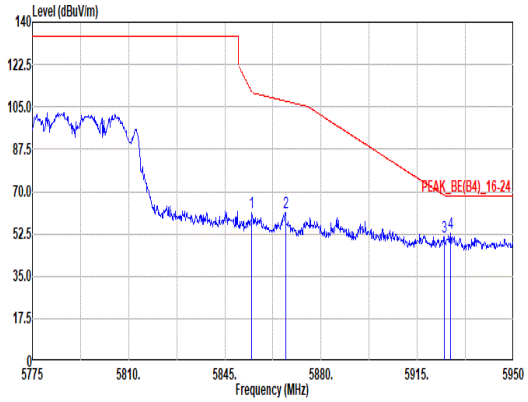
Mode	71	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5638.61 59.34 68.20 -8.86 50.75 33.05 13.54 38.00 0.00 123 360 PEAK 2 5650.70 59.62 68.72 -9.10 50.94 33.11 13.56 37.99 0.00 123 360 PEAK 3 5701.40 69.49 105.59 -36.10 60.34 33.50 13.63 37.98 0.00 123 360 PEAK 4 5720.90 70.82 112.85 -42.03 61.61 33.54 13.65 37.98 0.00 123 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 118.31 ------ ------ 108.59 33.91 13.77 37.96 0.00 123 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5795.00 111.43 ------ ------ 101.82 33.83 13.74 37.96 0.00 123 360 AVERAGE

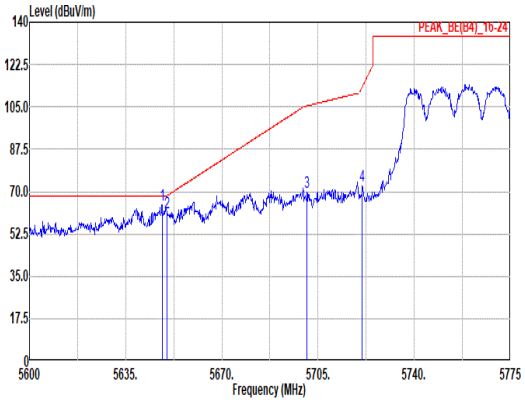
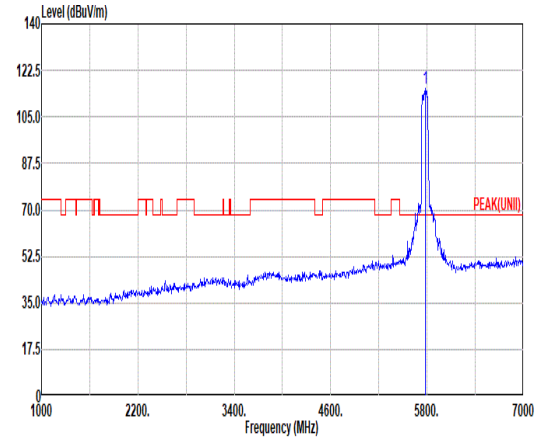
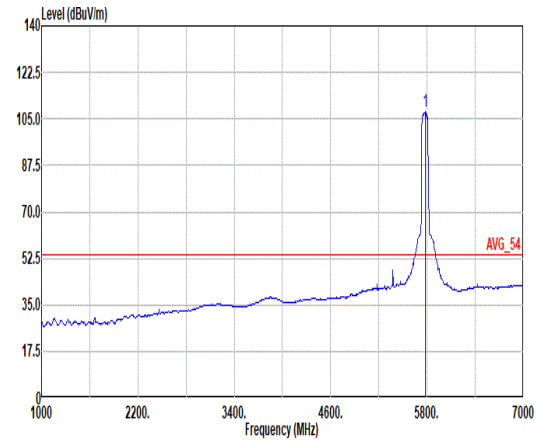
Mode	71	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5852.97 76.27 115.43 -39.16 66.37 34.01 13.84 37.95 0.00 123 360 PEAK 2 5862.27 77.88 108.76 -30.88 67.91 34.05 13.86 37.94 0.00 123 360 PEAK 3 5923.81 60.59 69.08 -8.49 50.31 34.25 13.96 37.93 0.00 123 360 PEAK 4 5932.02 62.52 68.20 -5.68 52.22 34.26 13.97 37.93 0.00 123 360 PEAK	Blank

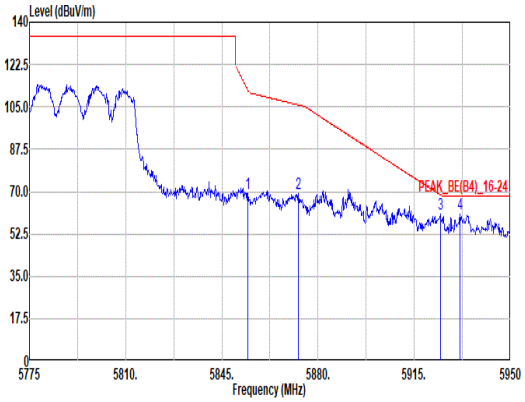
Mode	71	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 51.66 74.00 -22.34 35.63 38.74 19.55 42.73 0.47 315 214 PEAK 2 11590.00 41.47 54.00 -12.53 25.44 38.74 19.55 42.73 0.47 315 214 Average 3 17385.00 54.37 68.20 -13.83 36.08 38.51 24.16 44.90 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11590.00 52.42 74.00 -21.58 36.39 38.74 19.55 42.73 0.47 115 354 PEAK 2 11590.00 42.02 54.00 -11.98 25.99 38.74 19.55 42.73 0.47 115 354 Average 3 17385.00 53.61 68.20 -14.59 35.32 38.51 24.16 44.90 0.52 -- -- PEAK

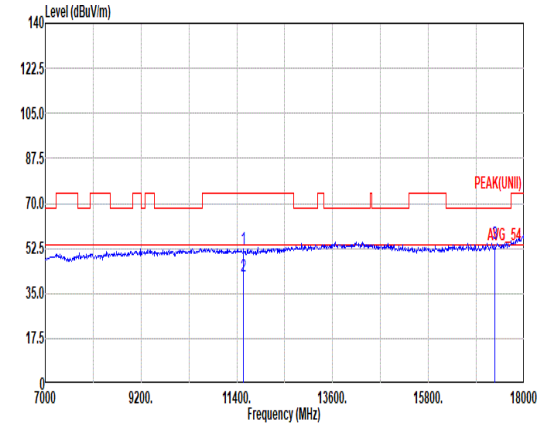
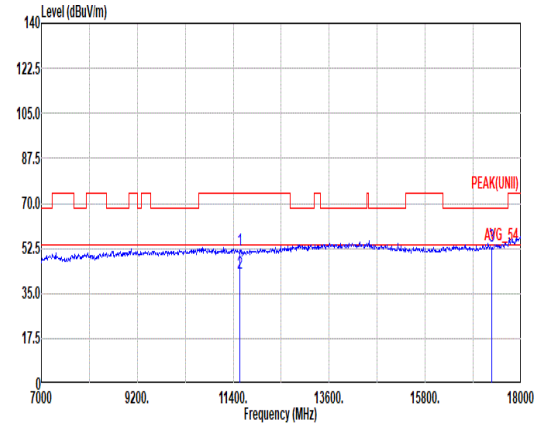
Mode	71	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ax HE40_CH159_Full RU_5795MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

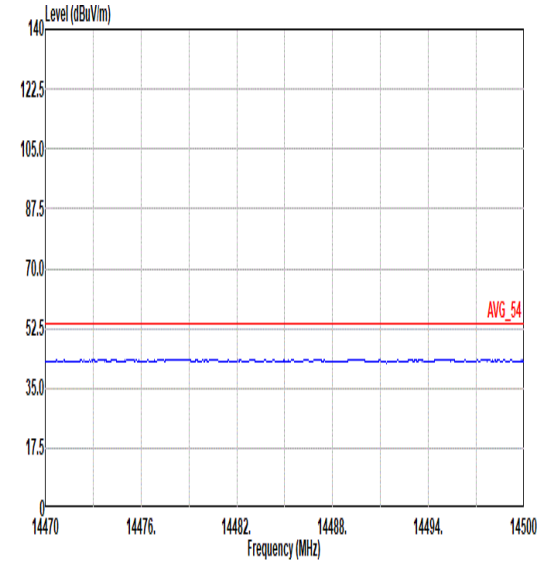
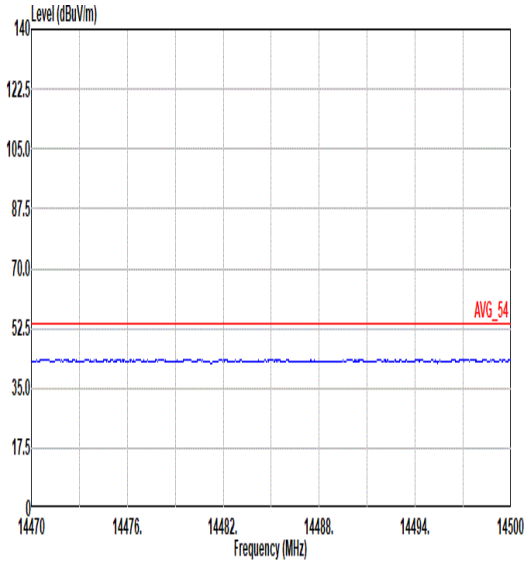
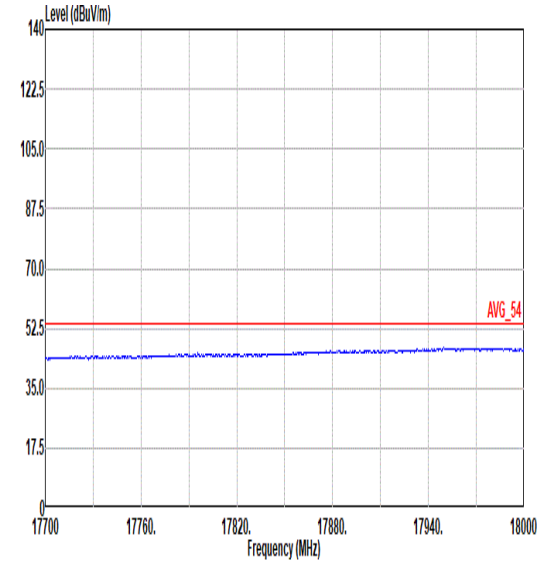
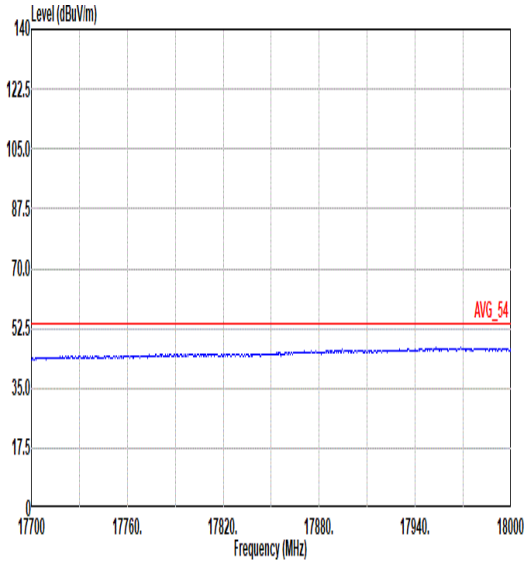
Mode	72	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5647.43 54.39 68.20 -13.81 45.74 33.09 13.55 37.99 0.00 100 60 PEAK 2 5653.90 55.48 71.10 -15.62 46.78 33.13 13.56 37.99 0.00 100 60 PEAK 3 5703.78 60.69 106.26 -45.57 51.53 33.51 13.63 37.98 0.00 100 60 PEAK 4 5720.93 59.07 112.91 -53.84 49.86 33.54 13.65 37.98 0.00 100 60 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 104.40 ------ ------ 94.79 33.83 13.74 37.96 0.00 100 60 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 96.32 ------ ------ 86.75 33.79 13.74 37.96 0.00 100 60 AVERAGE

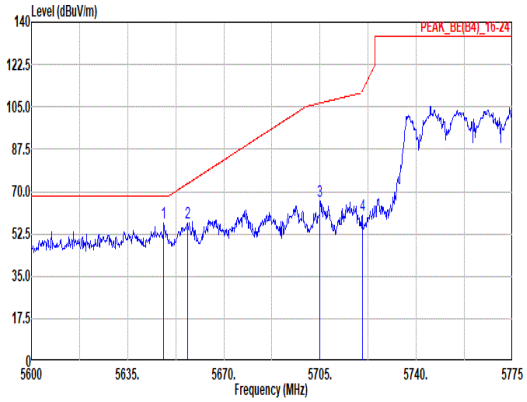
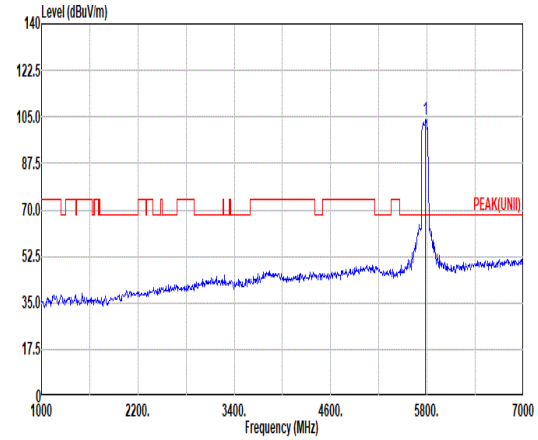
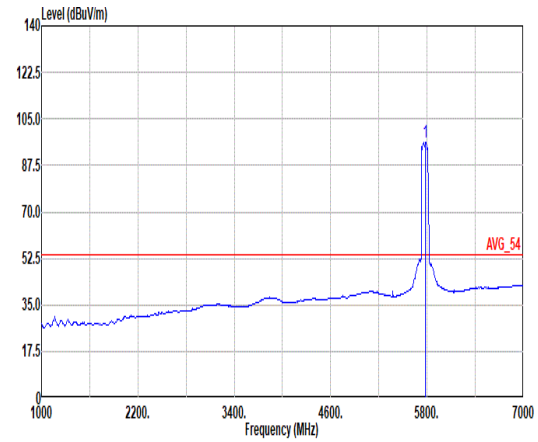
Mode	72	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 61.02 111.26 -50.24 51.09 34.02 13.85 37.94 0.00 100 60 PEAK 2 5867.05 61.17 107.42 -46.25 51.17 34.07 13.87 37.94 0.00 100 60 PEAK 3 5924.80 51.34 68.35 -17.01 41.06 34.25 13.96 37.93 0.00 100 60 PEAK 4 5927.08 52.89 68.20 -15.31 42.61 34.25 13.96 37.93 0.00 100 60 PEAK	Blank

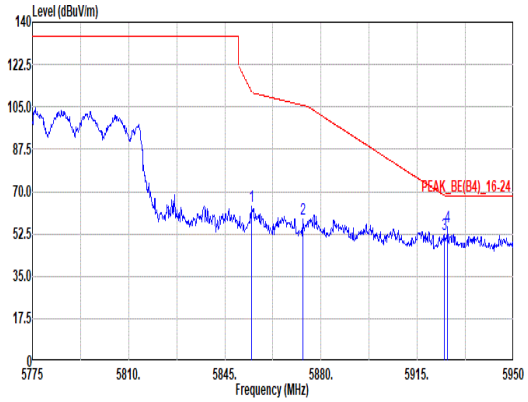
Mode	72	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5648.30 64.65 68.20 -3.55 55.99 33.09 13.56 37.99 0.00 125 360 PEAK 2 5650.05 61.39 68.24 -6.85 52.72 33.10 13.56 37.99 0.00 125 360 PEAK 3 5700.98 69.86 105.47 -35.61 60.71 33.50 13.63 37.98 0.00 125 360 PEAK 4 5721.10 72.35 113.31 -40.96 63.14 33.54 13.65 37.98 0.00 125 360 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5775.00 115.88 ------ ------ 106.31 33.79 13.74 37.96 0.00 125 360 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 5775.00 107.72 ------ ------ 98.15 33.79 13.74 37.96 0.00 125 360 AVERAGE

Mode	72	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.45 68.99 112.05 -43.06 59.06 34.02 13.85 37.94 0.00 125 360 PEAK 2 5872.83 69.29 105.81 -36.52 59.26 34.09 13.88 37.94 0.00 125 360 PEAK 3 5924.45 60.98 68.61 -7.63 50.70 34.25 13.96 37.93 0.00 125 360 PEAK 4 5931.63 60.55 68.20 -7.65 50.25 34.26 13.97 37.93 0.00 125 360 PEAK	Blank

Mode	72	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11550.00 52.19 74.00 -21.81 36.00 38.90 19.51 42.69 0.47 315 248 PEAK 2 11550.00 41.95 54.00 -12.05 25.76 38.90 19.51 42.69 0.47 315 248 Average 3 17325.00 54.19 68.20 -14.01 36.15 38.25 24.12 44.85 0.52 -- -- PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11550.00 51.98 74.00 -22.02 35.79 38.90 19.51 42.69 0.47 154 184 PEAK 2 11550.00 42.91 54.00 -11.09 26.72 38.90 19.51 42.69 0.47 154 184 Average 3 17325.00 53.60 68.20 -14.60 35.56 38.25 24.12 44.85 0.52 -- -- PEAK

Mode	72	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL
17.7G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 VERTICAL

Mode	73	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11ax HE80_CH155_Full RU_5775MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5648.13 56.85 68.20 -11.35 48.20 33.09 13.55 37.99 0.00 100 58 PEAK 2 5656.70 57.17 73.18 -16.01 48.44 33.15 13.57 37.99 0.00 100 58 PEAK 3 5705.00 65.97 106.60 -40.63 56.81 33.51 13.63 37.98 0.00 100 58 PEAK 4 5720.40 60.03 111.71 -51.68 50.82 33.54 13.65 37.98 0.00 100 58 PEAK	 Site : 03CH20-HY Condition: PEAK(UNII) 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 104.04 ------ ------ 94.47 33.79 13.74 37.96 0.00 100 58 PEAK
Avg	Blank	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:0.200kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5775.00 96.07 ------ ------ 86.69 33.65 13.70 37.97 0.00 100 58 AVERAGE

Mode	73	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11ax HE80_CH155_Full RU_5775MHz	
ANT	1+2	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE(B4)_16-24 3m HF_9120D_02360_231030 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.80 63.74 111.26 -47.52 53.81 34.02 13.85 37.94 0.00 100 58 PEAK 2 5873.53 58.57 105.61 -47.04 48.54 34.09 13.88 37.94 0.00 100 58 PEAK 3 5924.80 52.05 68.35 -16.30 41.77 34.25 13.96 37.93 0.00 100 58 PEAK 4 5926.03 55.43 68.20 -12.77 45.15 34.25 13.96 37.93 0.00 100 58 PEAK	Blank