FCC RADIO TEST REPORT

FCC ID	:	**HLZA24005**
Equipment	:	**Tablet PC**
Brand Name	:	**acer**
Model Name	:	**A24005**
Marketing Name	:	**Acer Iconia V11, V11-11**
Applicant	:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)**
Manufacturer	:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 17, 2024 and testing was performed from Jul. 29, 2024 to Aug. 27, 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
FR471715E	01	Initial issue of report	Sep. 09, 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	4.22 dB under the limit at 39516.80 MHz
3.5	15.207	AC Conducted Emission	Pass	14.55 dB under the limit at 0.38 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: Keven Cheng

Report Producer: Wilda Wei

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac and GNSS. **Antenna Type** WLAN: FPC Antenna Bluetooth: FPC Antenna GPS / Glonass / BDS / Galileo: FPC Antenna

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	0.91

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

SKU List		
Model	**SKU1 (6+128GB)**	**SKU2 (6+128GB) Second source**
CPU	G80 (MT8786) WiFi only	G80 (MT8786) WiFi only
PCB	Wuzhu	Wuzhu
PCB 2	Kingshine	Kingshine
LCM	K&D KD110N09-51II-A002	K&D KD110N09-51II-A002
LCM 2	STARRY 2082109QFH036011-50G	STARRY 2082109QFH036011-50G
Memory	Longsys MLXC4006G 6GB LPDDR4X	CXMT CXDBCCCDM-MK-M
eMMC	Longsys FEMDNN128G 128GB	UDStore UEMDGS63S0 128GB
Battery	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER
Wifi / Bluetooth	MT6631N/A, 802.11 a/b/g/n/ac WIFI（2.4G+5G)	MT6631N/A, 802.11 a/b/g/n/ac WIFI（2.4G+5G)
GPS	MT6631N/A, GPS BEIDOU,GLONASS, Galileo	MT6631N/A, GPS BEIDOU,GLONASS, Galileo
Front Camera	Zhuocheng ZE2140-MG1011_F-V1.0	Zhuocheng ZE2140-MG1011_F-V1.0
Rear Camera	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)	Zhuocheng ZE2142-MG1011_B-V1.0 (8856)
Speaker-R	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX
Speaker-L	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX
Wifi Antenna	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
GPS Antenna	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
Adapter 1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1
Adapter 2	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR

SKU List		
Model	**SKU3 (6+256GB)**	**SKU4 (6+256GB) Second source**
CPU	G80 (MT8786) WiFi only	G80 (MT8786) WiFi only
PCB	Wuzhu	Wuzhu
PCB 2	Kingshine	Kingshine
LCM	K&D KD110N09-51II-A002	K&D KD110N09-51II-A002
LCM 2	STARRY 2082109QFH036011-50G	STARRY 2082109QFH036011-50G
Memory	Longsys MLXC4006G 6GB LPDDR4X	CXMT CXDBCCCDM-MK-M
eMMC	Longsys FEMDNN256G 256GB	Shichuangyi（SCY） E256CSAG4ABE00 256GB
Battery	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER	UTL\Battery\Li-polymer\Pack\MG1011\U318991PV-2P\8000mAh_30.4Wh\3.8V\177*93*3.25mm\Connector 51146-5P\ACER
Wifi / Bluetooth	MT6631N/A, 802.11 a/b/g/n/ac WIFI （2.4G+5G)	MT6631N/A, 802.11 a/b/g/n/ac WIFI （2.4G+5G)
GPS	MT6631N/A, GPS BEIDOU, GLONASS, Galileo	MT6631N/A, GPS BEIDOU, GLONASS, Galileo
Front Camera	Zhuocheng ZE2140-MG1011_F-V1.0	Zhuocheng ZE2140-MG1011_F-V1.0
Rear Camera	Zhuocheng ZE2142-MG1011_B-V1.0（8856）	Zhuocheng ZE2142-MG1011_B-V1.0（8856）
Speaker-R	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-R-BOX
Speaker-L	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX	Ming Tai Dian Sheng S-1712C-8A-MG1011-L-BOX
Wifi Antenna	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
GPS Antenna	Sward ST1821A-1B2-A	Sward ST1821A-1B2-A
Adapter 1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1	Aoda A829-120167C-AR1 A829-120167C-US1 A829-120167C-EU1 A829-120167C-TL1 A829-120167C-UK1
Adapter 2	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR	TEKA TEKA-SCC20EU TEKA-SCC20BS TEKA-SCC20US TEKA-SCC20AR

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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, CO07-HY, 03CH11-HY

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

FCC designation No.: 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.
- 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.

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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), 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.
2. The above Frequency and Channel with "#" are 802.11ac VHT80.

2.2 Test Mode

The power for 802.11ac VHT20 and VHT40 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.

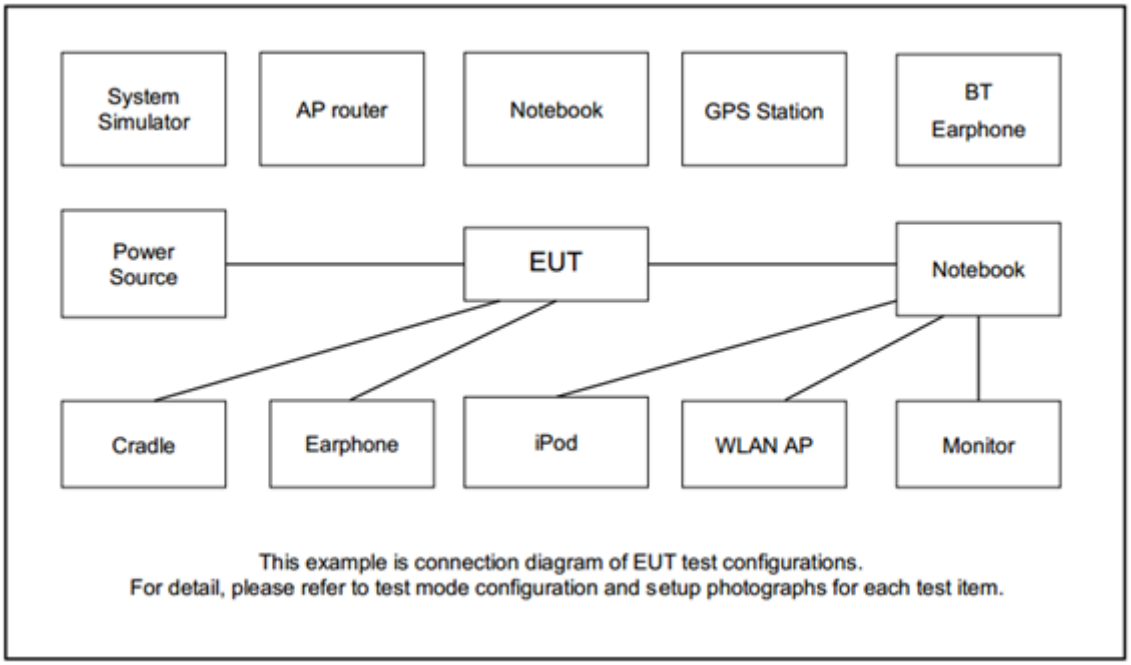
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from Adapter 2) + Earphone for SKU3 (6+256GB)
Remark: For Radiated Test Cases, the tests were performed with Adapter 2 and SKU3 (6+256GB).	

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	-

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded, 1.8m	N/A
3.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, make the EUT (FW: 2023-12-15-160559) 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.

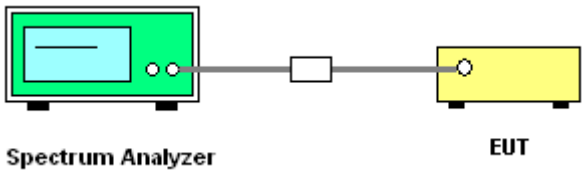
3.1.2 Measuring Instruments

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.

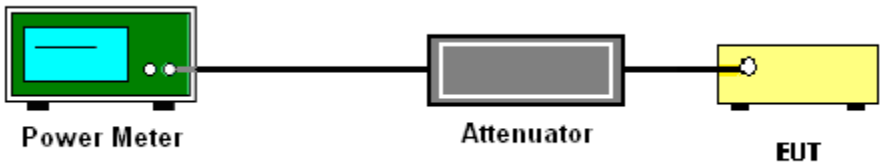
3.2.3 Test Procedures

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.

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.

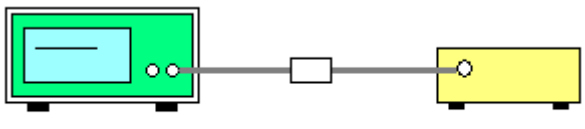
 # Method SA-2 #

(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.

3.3.4 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

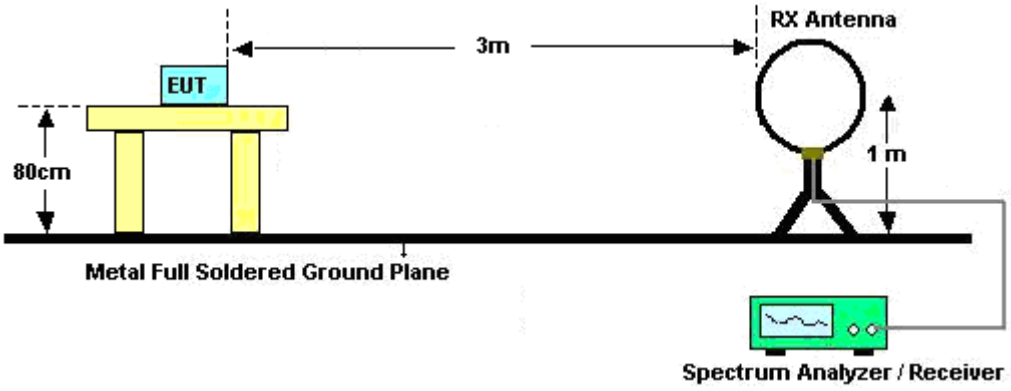
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - 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.

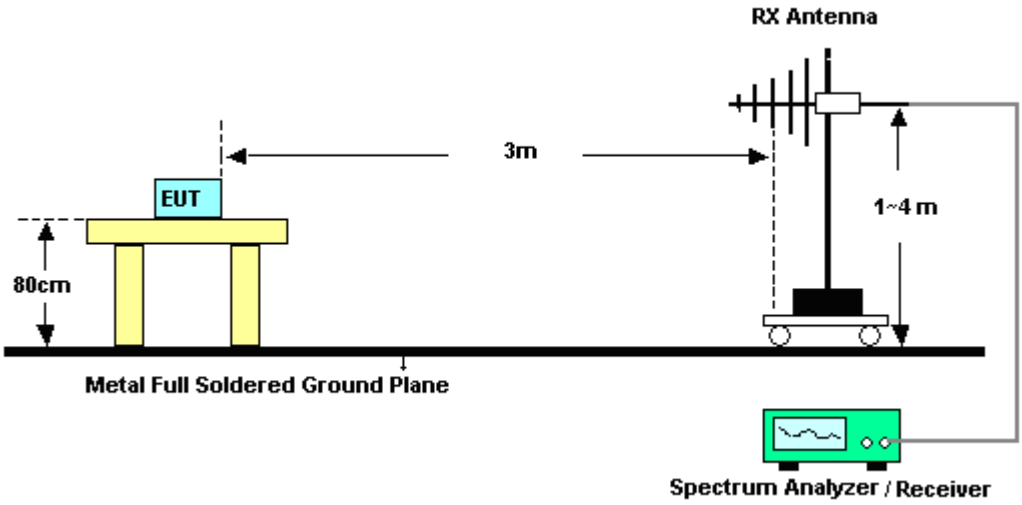
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

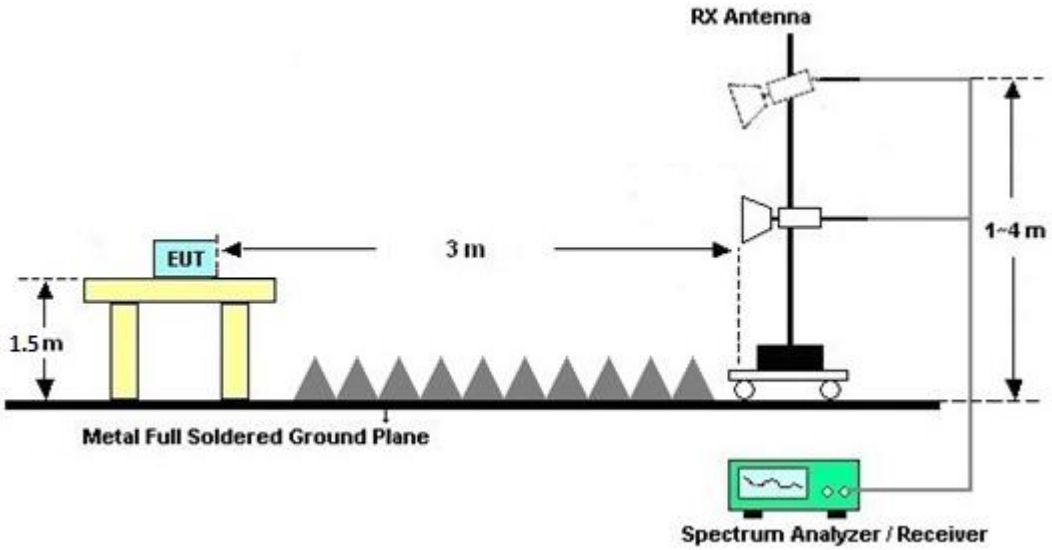
For radiated emissions below 30MHz



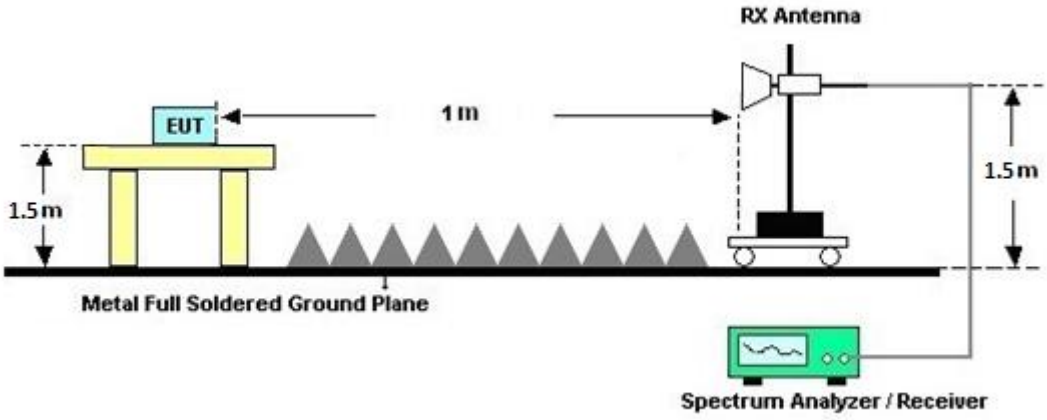
For radiated emissions from 30MHz to 1GHz



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.

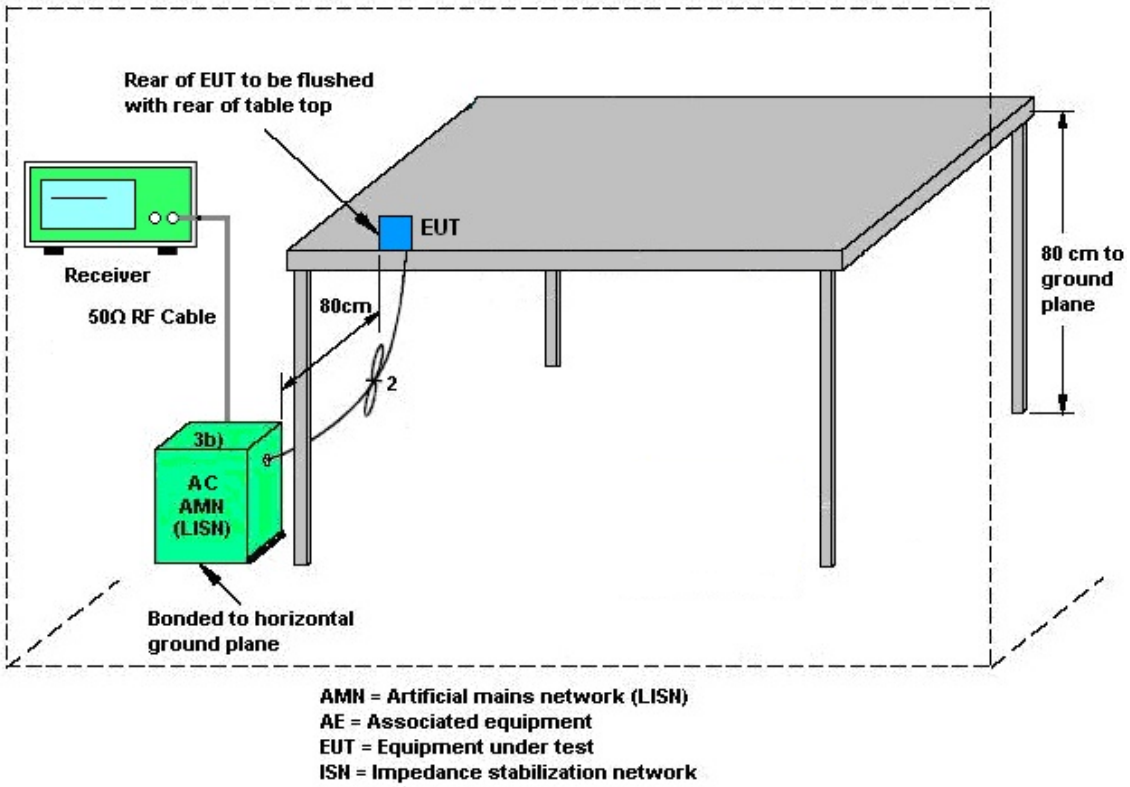
3.5.2 Measuring Instruments

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



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
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 07, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 06, 2024	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 11, 2024	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 17, 2023	Aug. 06, 2024~ Aug. 15, 2024	Aug. 16, 2024	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2023	Aug. 06, 2024~ Aug. 15, 2024	Nov. 23, 2024	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 08, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 25, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 24, 2025	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	171000180005007	1GHz~18GHz	Jun. 13, 2024	Aug. 06, 2024~ Aug. 15, 2024	Jun. 12, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 06, 2024	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 05, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 04, 2024	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 06, 2023	Aug. 06, 2024~ Aug. 15, 2024	Oct. 05, 2024	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Aug. 06, 2024~ Aug. 15, 2024	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Dec. 08, 2023	Aug. 06, 2024~ Aug. 15, 2024	Dec. 07, 2024	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	May 23, 2024	Aug. 06, 2024~ Aug. 15, 2024	May 22, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 06, 2024	Aug. 06, 2024~ Aug. 15, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 11, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 11, 2023	Aug. 06, 2024~ Aug. 15, 2024	Sep. 10, 2024	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Jul. 09, 2024	Aug. 06, 2024~ Aug. 15, 2024	Jul. 08, 2025	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jul. 29, 2024~ Aug. 27, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jul. 29, 2024~ Aug. 27, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Jul. 29, 2024~ Aug. 27, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jul. 29, 2024~ Aug. 27, 2024	N/A	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO13 (NO:255)	10MHz~6GHz	Jan. 08, 2024	Jul. 29, 2024~ Aug. 27, 2024	Jan. 07, 2025	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Aug. 02, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 02, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Aug. 02, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Aug. 02, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Aug. 02, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Aug. 02, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Aug. 02, 2024	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.44 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.10 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.30 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.30 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.30 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2024/07/29~2024/08/27	Relative Humidity:	51~54	%

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

U-NII-3 single antenna												
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	1	149	5745	16.73	-	20.28	-	15.07	-	0.5	Pass
11a	6Mbps	1	157	5785	16.73	-	20.17	-	15.11	-	0.5	Pass
11a	6Mbps	1	165	5825	16.78	-	20.25	-	15.11	-	0.5	Pass
HT20	MCS0	1	149	5745	17.83	-	20.56	-	15.06	-	0.5	Pass
HT20	MCS0	1	157	5785	17.83	-	20.48	-	15.13	-	0.5	Pass
HT20	MCS0	1	165	5825	17.88	-	22.26	-	15.09	-	0.5	Pass
HT40	MCS0	1	151	5755	36.96	-	53.87	-	35.12	-	0.5	Pass
HT40	MCS0	1	159	5795	36.86	-	41.38	-	35.11	-	0.5	Pass
VHT80	MCS0	1	155	5775	75.04	-	81.34	-	75.10	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
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	1	149	5745	10.20	-		30.00	-	0.91	-	Pass
11a	6Mbps	1	157	5785	10.00	-		30.00	-	0.91	-	Pass
11a	6Mbps	1	165	5825	10.00	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	149	5745	10.20	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	157	5785	10.30	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	165	5825	10.40	-		30.00	-	0.91	-	Pass
HT40	MCS0	1	151	5755	9.40	-		30.00	-	0.91	-	Pass
HT40	MCS0	1	159	5795	9.40	-		30.00	-	0.91	-	Pass
VHT20	MCS0	1	149	5745	10.10	-		30.00	-	0.91	-	Pass
VHT20	MCS0	1	157	5785	10.20	-		30.00	-	0.91	-	Pass
VHT20	MCS0	1	165	5825	10.30	-		30.00	-	0.91	-	Pass
VHT40	MCS0	1	151	5755	9.30	-		30.00	-	0.91	-	Pass
VHT40	MCS0	1	159	5795	9.30	-		30.00	-	0.91	-	Pass
VHT80	MCS0	1	155	5775	9.10	-		30.00	-	0.91	-	Pass

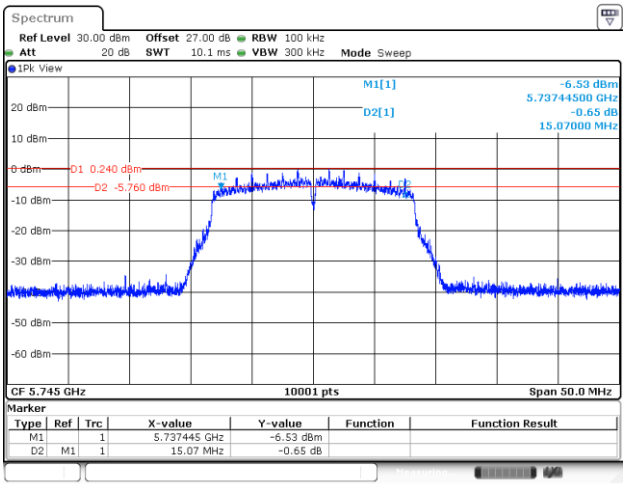
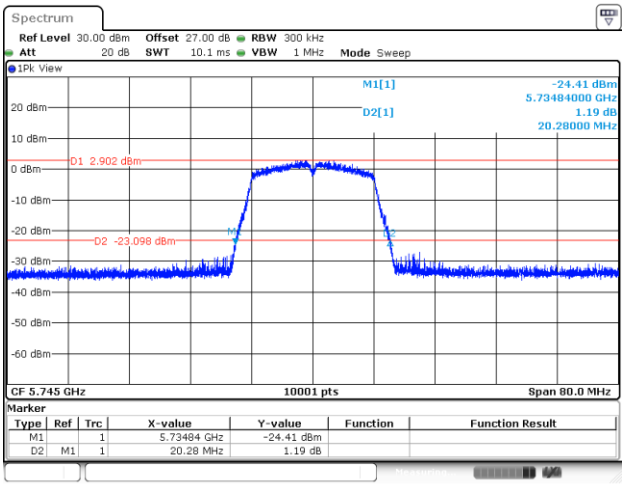
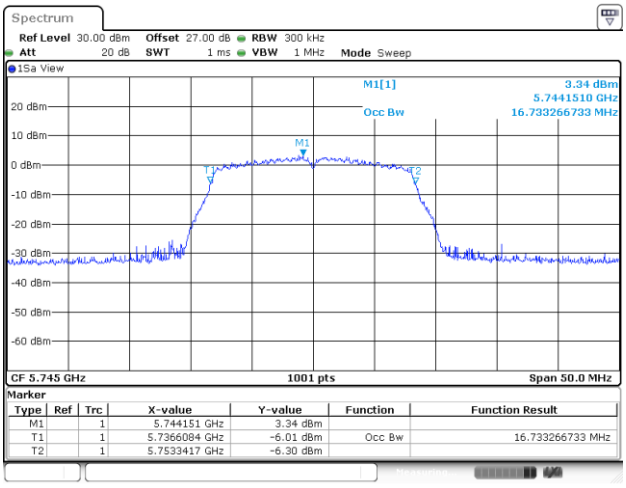
Report Number : FR471715E

TEST RESULTS DATA
Power Spectral Density

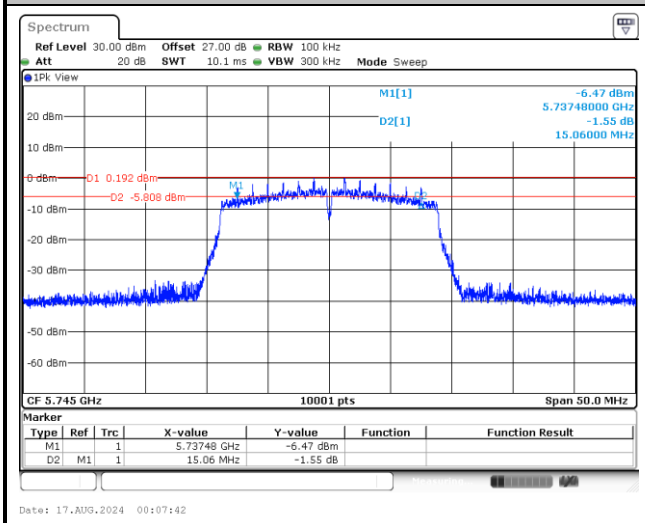
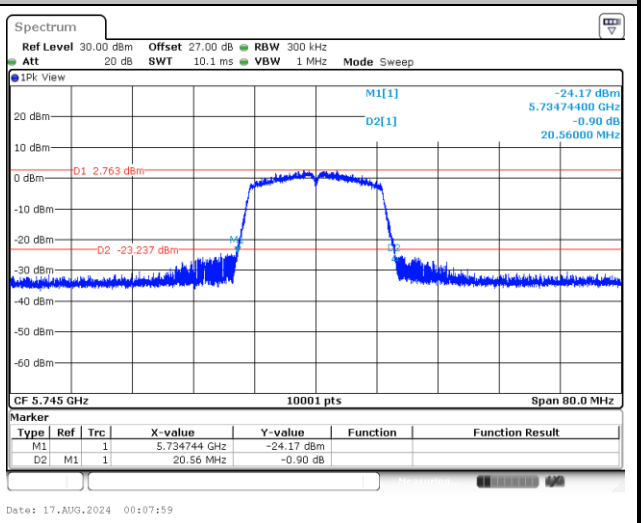
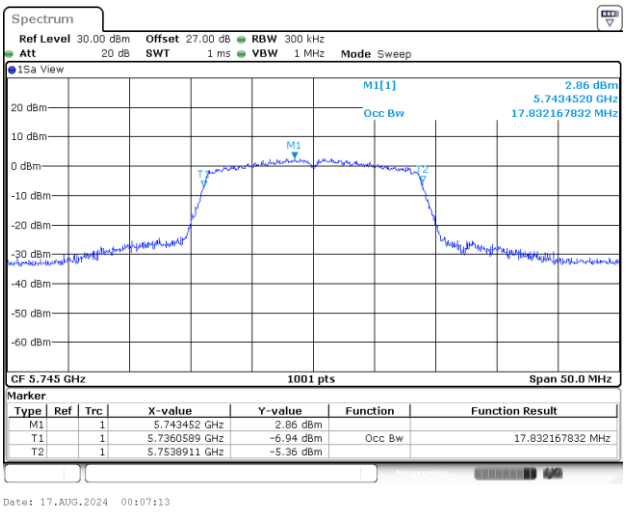
U-NII-3 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.15		2.22	-	-3.14	-		30.00	-	0.91	-	Pass
11a	6Mbps	1	157	5785	0.15		2.22	-	-3.18	-		30.00	-	0.91	-	Pass
11a	6Mbps	1	165	5825	0.15		2.22	-	-3.08	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	149	5745	0.13		2.22	-	-3.54	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	157	5785	0.13		2.22	-	-3.07	-		30.00	-	0.91	-	Pass
HT20	MCS0	1	165	5825	0.13		2.22	-	-2.98	-		30.00	-	0.91	-	Pass
HT40	MCS0	1	151	5755	0.29		2.22	-	-6.77	-		30.00	-	0.91	-	Pass
HT40	MCS0	1	159	5795	0.29		2.22	-	-6.91	-		30.00	-	0.91	-	Pass
VHT80	MCS0	1	155	5775	0.55		2.22	-	-10.01	-		30.00	-	0.91	-	Pass

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

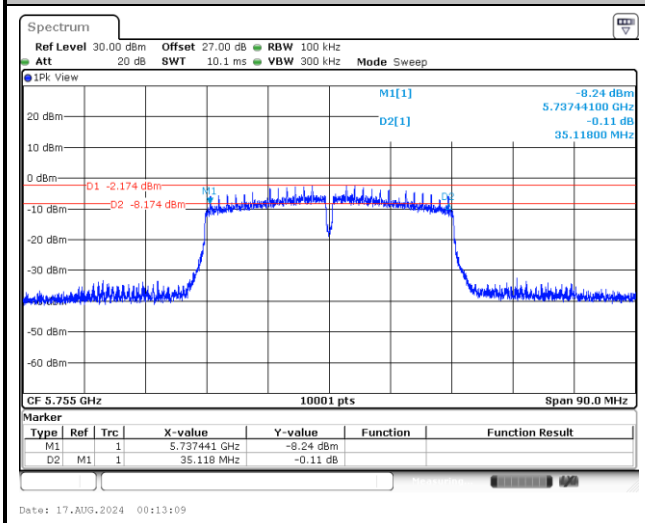
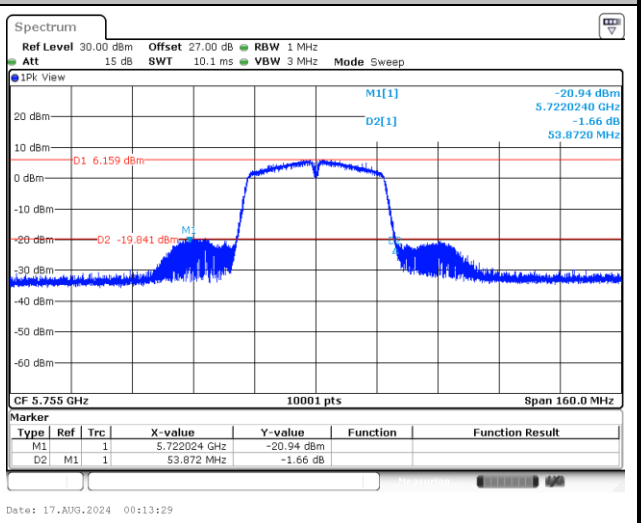
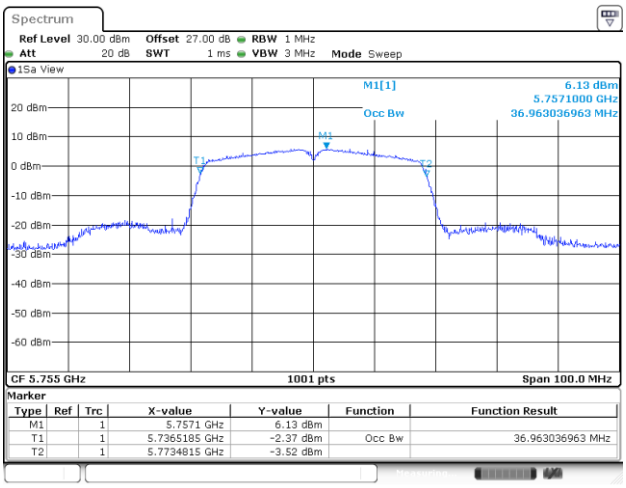
<802.11a>

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

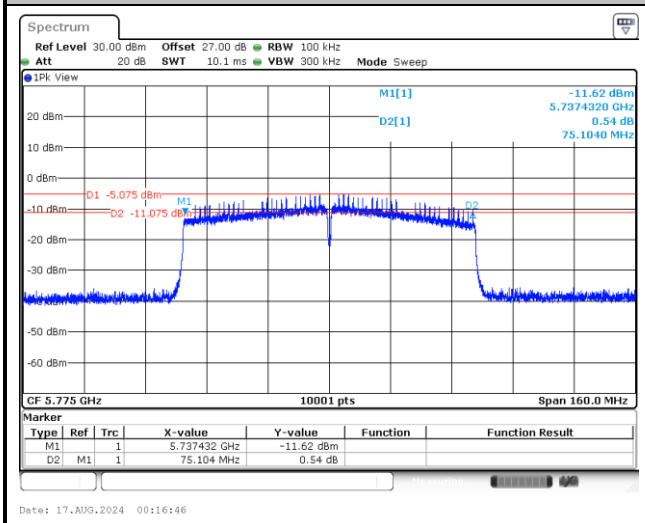
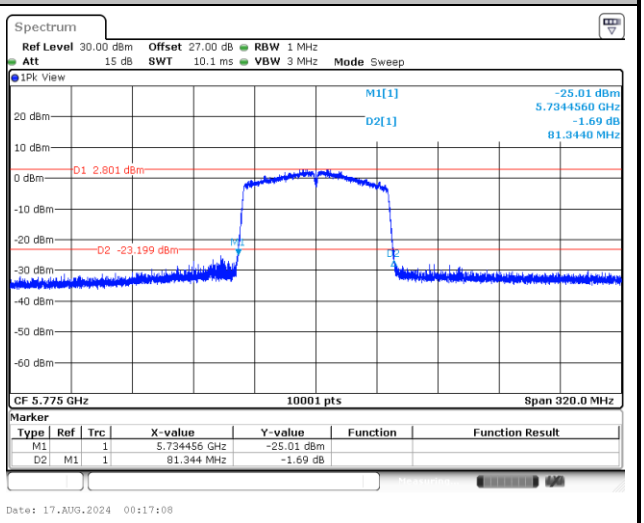
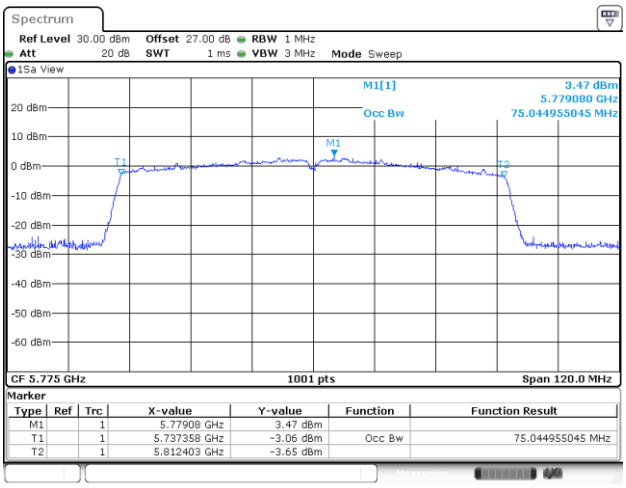
<802.11n HT20>

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

<802.11n HT40>

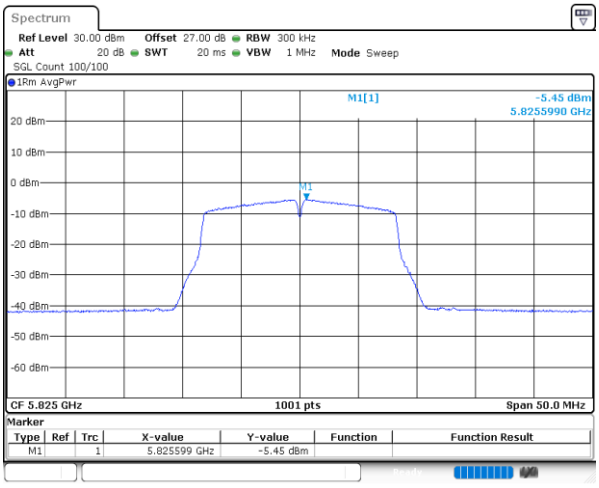
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

<802.11ac VHT80>

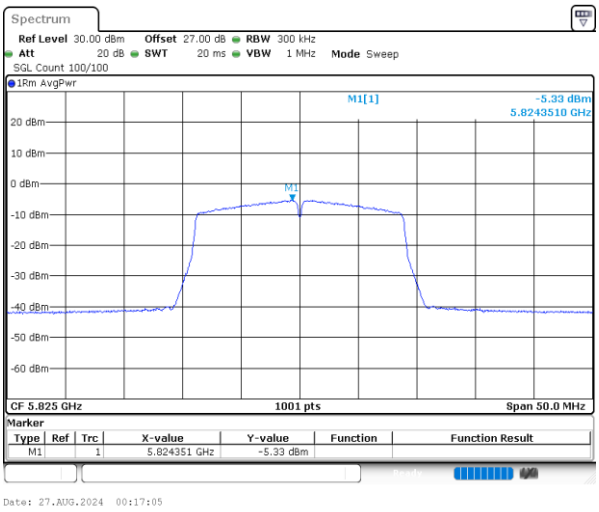
6dB Bandwidth	26dB Bandwidth
	
99% Occupied Bandwidth	**N/A**
	

Test Result of Power Spectral Density

<802.11a>

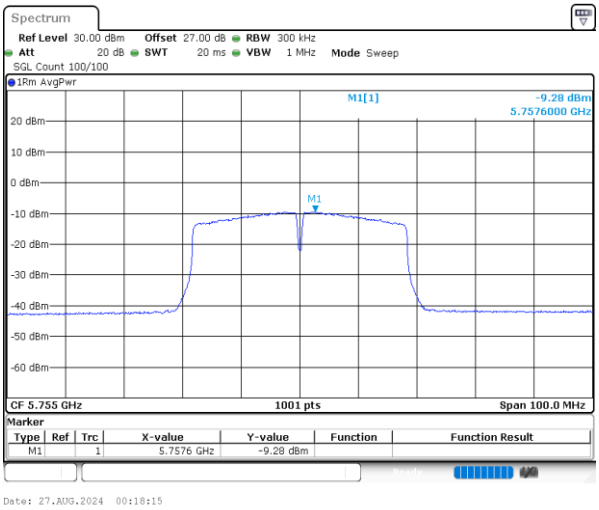
Maximum Power Density Plot (dBm/300kHz)


<802.11n HT20>

Maximum Power Density Plot (dBm/300kHz)


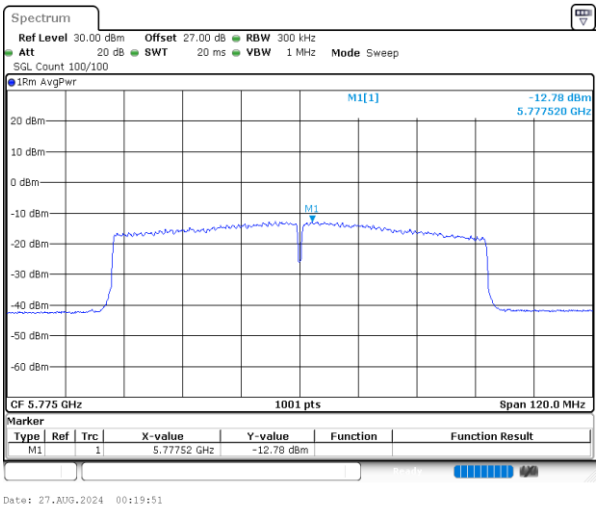
<802.11n HT40>

Maximum Power Density Plot (dBm/300kHz)



<802.11ac VHT80>

Maximum Power Density Plot (dBm/300kHz)

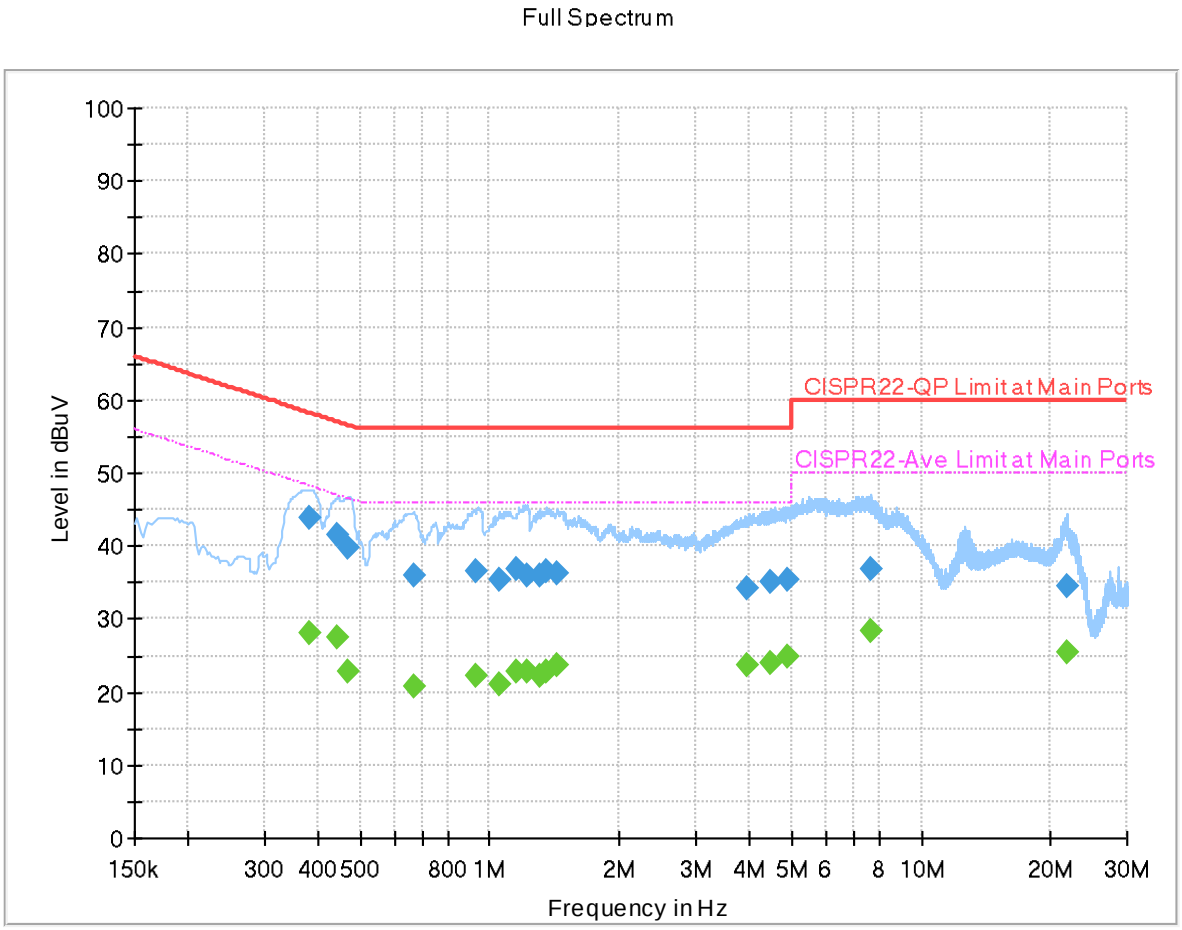


Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	22.8~26.1℃
		Relative Humidity :	45.2~52.3%

EUT Information

Report NO :	471715
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



Final_Result

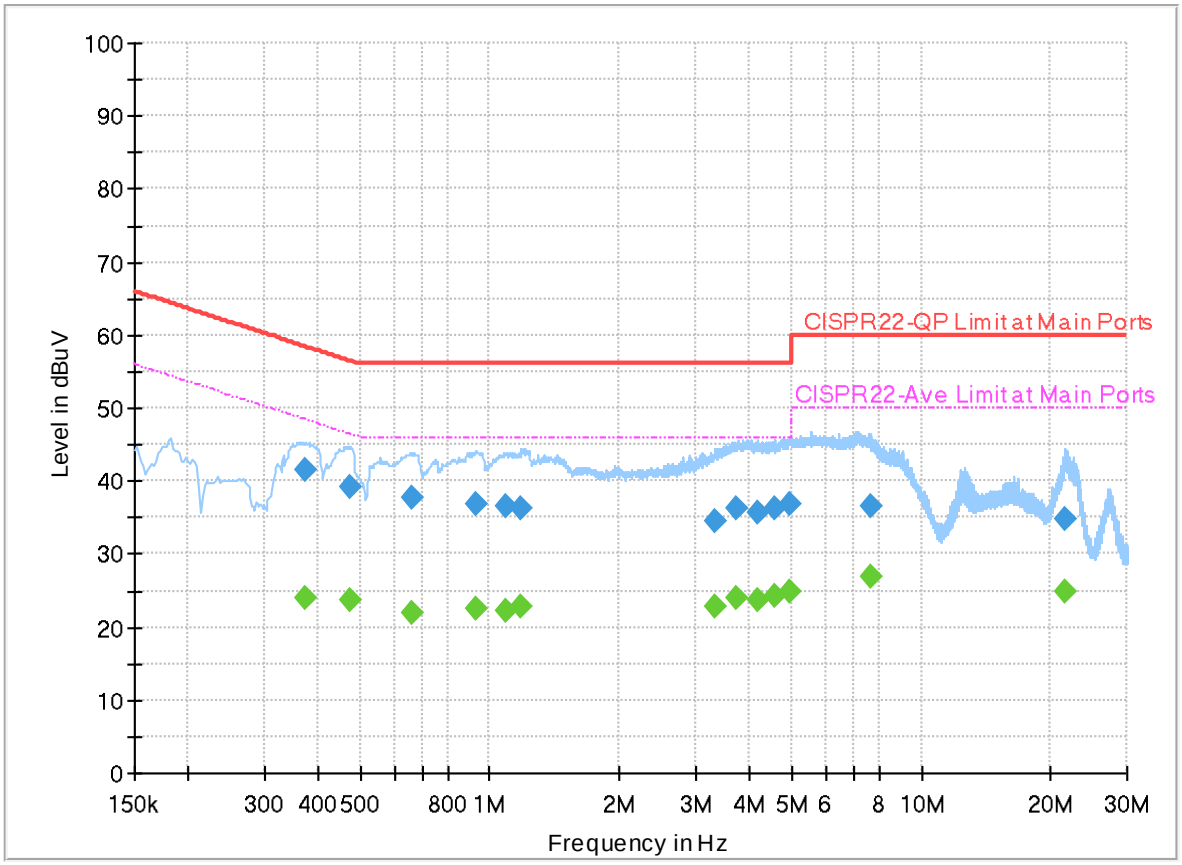
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.379860	---	27.94	48.28	20.34	L1	OFF	19.9
0.379860	43.73	---	58.28	14.55	L1	OFF	19.9
0.443580	---	27.37	46.99	19.62	L1	OFF	19.9
0.443580	41.63	---	56.99	15.36	L1	OFF	19.9
0.469500	---	22.86	46.52	23.66	L1	OFF	19.9
0.469500	39.89	---	56.52	16.63	L1	OFF	19.9
0.669750	---	20.67	46.00	25.33	L1	OFF	19.9
0.669750	36.02	---	56.00	19.98	L1	OFF	19.9
0.933000	---	22.16	46.00	23.84	L1	OFF	19.9
0.933000	36.64	---	56.00	19.36	L1	OFF	19.9
1.056750	---	21.16	46.00	24.84	L1	OFF	19.9
1.056750	35.31	---	56.00	20.69	L1	OFF	19.9
1.147110	---	22.83	46.00	23.17	L1	OFF	19.9
1.147110	36.88	---	56.00	19.12	L1	OFF	19.9
1.214250	---	22.91	46.00	23.09	L1	OFF	19.9
1.214250	36.08	---	56.00	19.92	L1	OFF	19.9
1.299930	---	22.34	46.00	23.66	L1	OFF	19.9
1.299930	35.88	---	56.00	20.12	L1	OFF	19.9
1.356000	---	22.94	46.00	23.06	L1	OFF	19.9

1.356000	36.69	---	56.00	19.31	L1	OFF	19.9
1.434570	---	23.81	46.00	22.19	L1	OFF	19.9
1.434570	36.24	---	56.00	19.76	L1	OFF	19.9
3.927750	---	23.58	46.00	22.42	L1	OFF	20.0
3.927750	34.23	---	56.00	21.77	L1	OFF	20.0
4.461990	---	24.02	46.00	21.98	L1	OFF	20.0
4.461990	35.01	---	56.00	20.99	L1	OFF	20.0
4.876980	---	24.98	46.00	21.02	L1	OFF	20.0
4.876980	35.50	---	56.00	20.50	L1	OFF	20.0
7.631250	---	28.27	50.00	21.73	L1	OFF	20.0
7.631250	36.72	---	60.00	23.28	L1	OFF	20.0
21.738570	---	25.35	50.00	24.65	L1	OFF	20.1
21.738570	34.51	---	60.00	25.49	L1	OFF	20.1

EUT Information

Report NO :	471715
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.371490	---	24.11	48.47	24.36	N	OFF	19.9
0.371490	41.55	---	58.47	16.92	N	OFF	19.9
0.474360	---	23.57	46.44	22.87	N	OFF	19.9
0.474360	39.08	---	56.44	17.36	N	OFF	19.9
0.658950	---	21.93	46.00	24.07	N	OFF	19.9
0.658950	37.86	---	56.00	18.14	N	OFF	19.9
0.929670	---	22.63	46.00	23.37	N	OFF	19.9
0.929670	36.92	---	56.00	19.08	N	OFF	19.9
1.091760	---	22.15	46.00	23.85	N	OFF	19.9
1.091760	36.64	---	56.00	19.36	N	OFF	19.9
1.174650	---	22.79	46.00	23.21	N	OFF	19.9
1.174650	36.35	---	56.00	19.65	N	OFF	19.9
3.338250	---	22.76	46.00	23.24	N	OFF	20.0
3.338250	34.59	---	56.00	21.41	N	OFF	20.0
3.749550	---	23.85	46.00	22.15	N	OFF	20.0
3.749550	36.19	---	56.00	19.81	N	OFF	20.0
4.157790	---	23.83	46.00	22.17	N	OFF	20.0
4.157790	35.58	---	56.00	20.42	N	OFF	20.0
4.562790	---	24.34	46.00	21.66	N	OFF	20.0

4.562790	**36.15**	**---**	**56.00**	**19.85**	**N**	**OFF**	**20.0**
4.985160	**---**	**24.97**	**46.00**	**21.03**	**N**	**OFF**	**20.0**
4.985160	**36.79**	**---**	**56.00**	**19.21**	**N**	**OFF**	**20.0**
7.606500	**---**	**26.83**	**50.00**	**23.17**	**N**	**OFF**	**20.0**
7.606500	**36.41**	**---**	**60.00**	**23.59**	**N**	**OFF**	**20.0**
21.642540	**---**	**24.85**	**50.00**	**25.15**	**N**	**OFF**	**20.2**
21.642540	**34.93**	**---**	**60.00**	**25.07**	**N**	**OFF**	**20.2**

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Fu Chen and Troye Hsieh	Temperature :	20.1~21.8 ℃
		Relative Humidity :	52.9~69.9 %

Note symbol

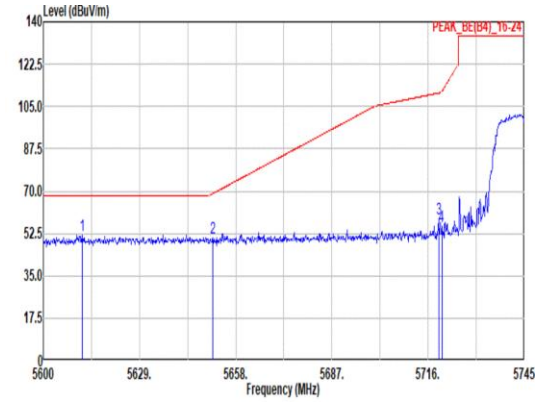
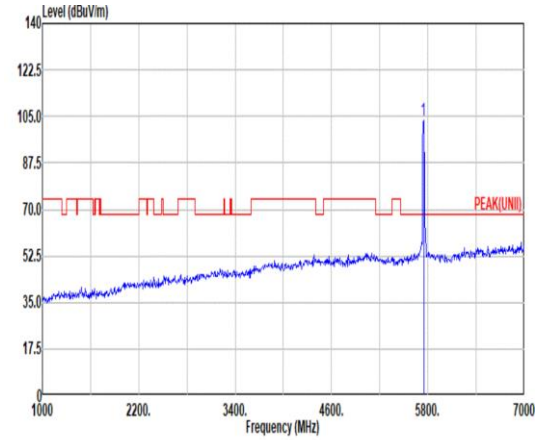
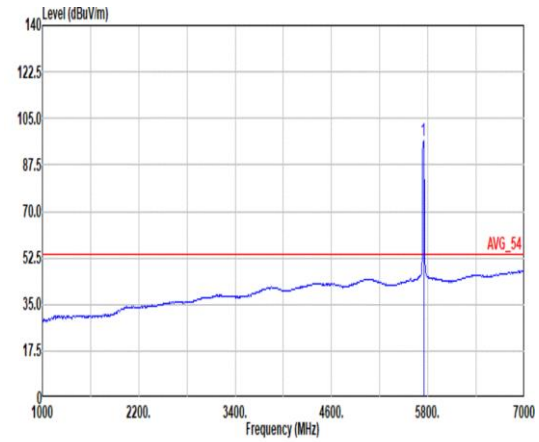
-L	**Low channel location**
-R	**High channel location**

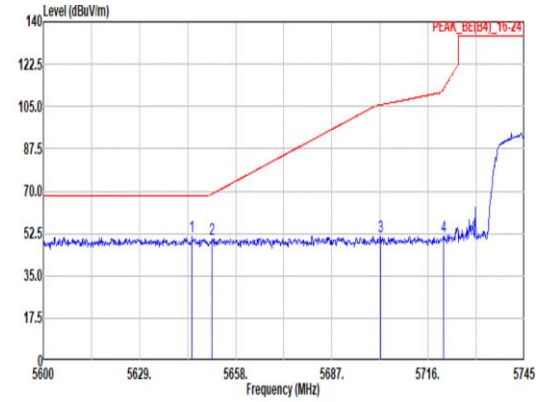
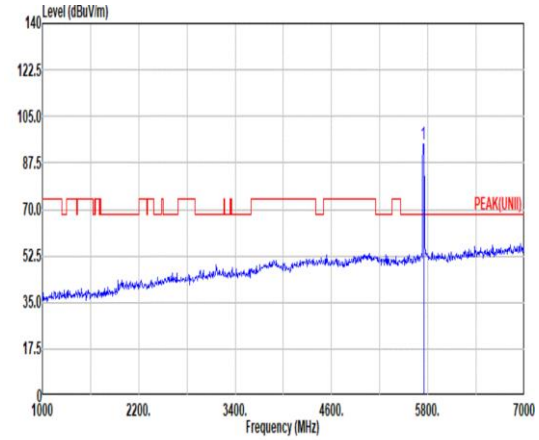
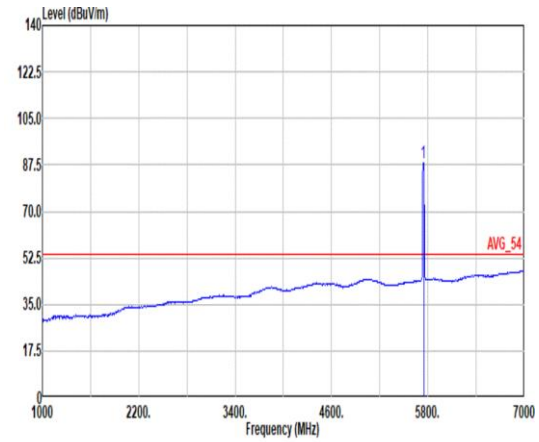
C1. Radiated Spurious Emission Test Modes

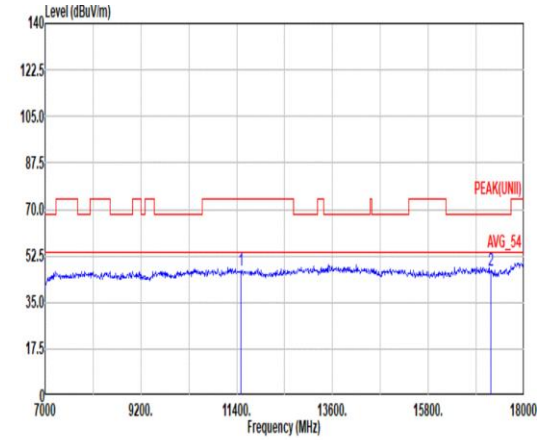
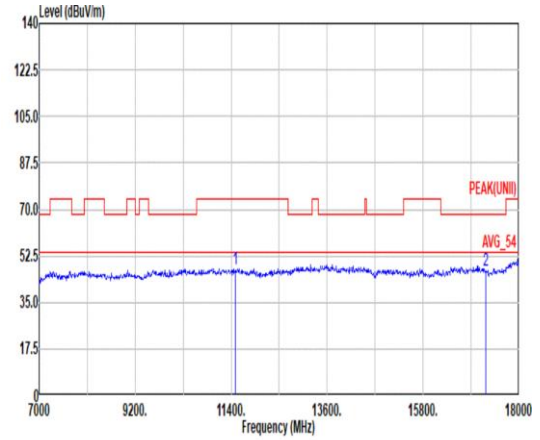
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 30	U-NII-3	5.725-5.85	1	802.11a Tx	149	5745	MCS0	-	-
Mode 31	U-NII-3	5.725-5.85	1	802.11a Tx	157	5785	MCS0	-	-
Mode 32	U-NII-3	5.725-5.85	1	802.11a Tx	165	5825	MCS0	-	-
Mode 33	U-NII-3	5.725-5.85	1	802.11n HT20	149	5745	MCS0	-	-
Mode 34	U-NII-3	5.725-5.85	1	802.11n HT20	157	5785	MCS0	-	-
Mode 35	U-NII-3	5.725-5.85	1	802.11n HT20	165	5825	MCS0	-	-
Mode 36	U-NII-3	5.725-5.85	1	802.11n HT40	151	5755	MCS0	-	-
Mode 37	U-NII-3	5.725-5.85	1	802.11n HT40	159	5795	MCS0	-	-
Mode 38	U-NII-3	5.725-5.85	1	802.11ac VHT80	155	5775	MCS0	-	-
Mode 39	U-NII-3	5.725-5.85	1	802.11n HT20	165	5825	MCS0	-	LF
Mode 42	U-NII-3	5.725-5.85	1	802.11n HT20	165	5825	MCS0	-	SHF

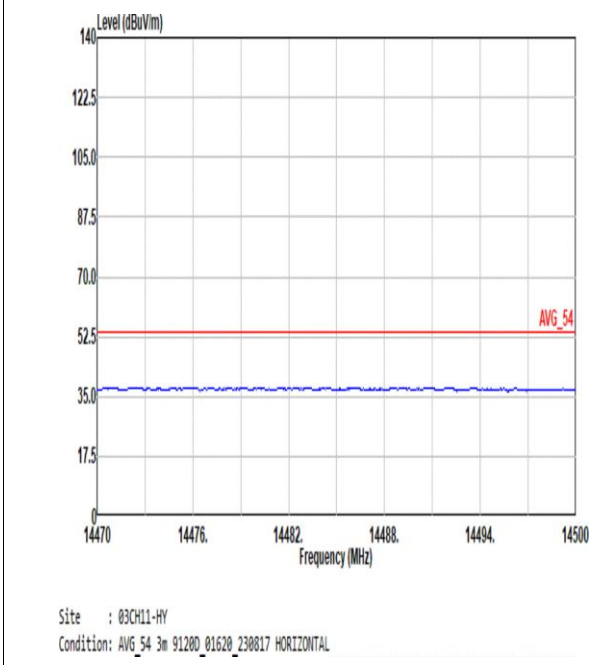
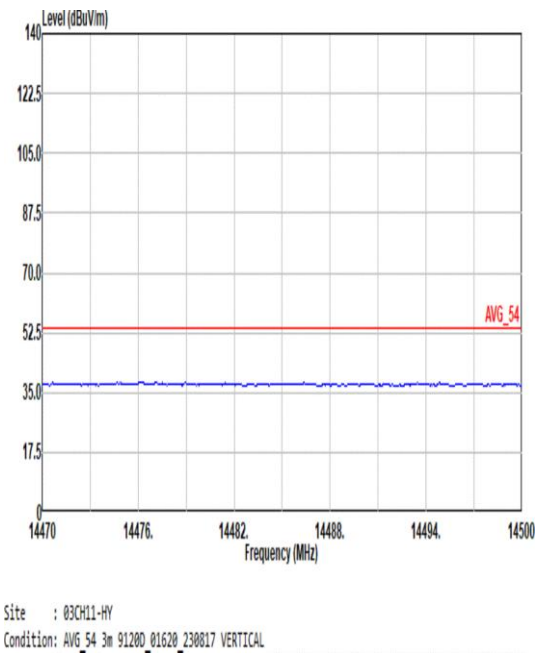
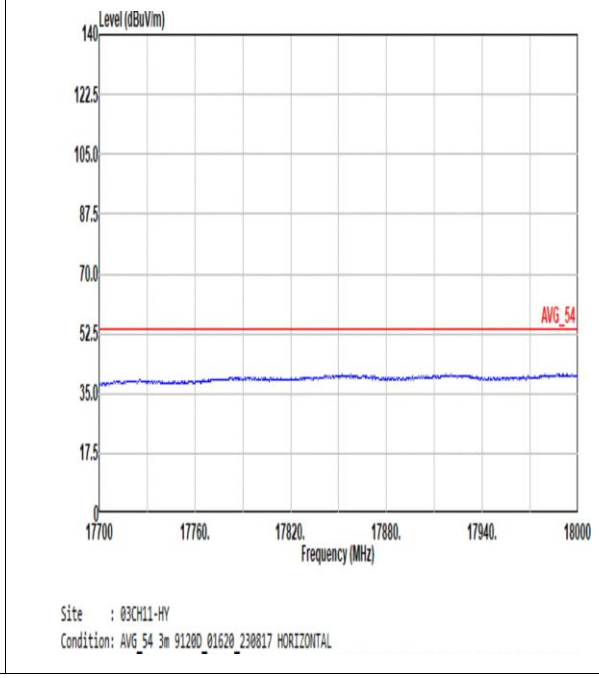
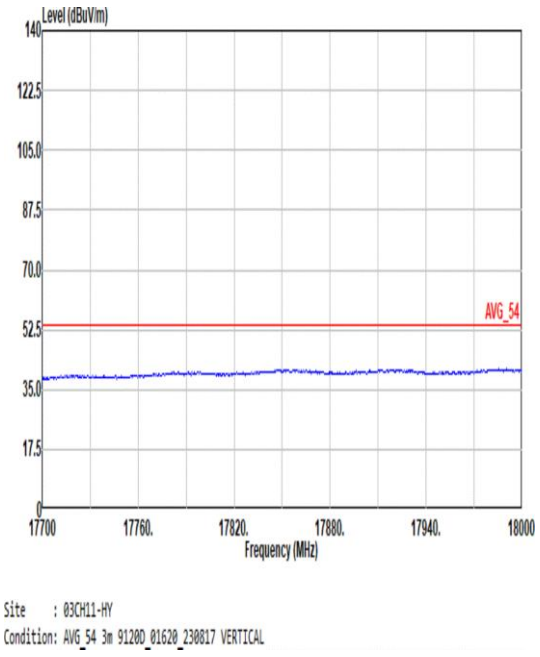
C2. Summary of each worse mode

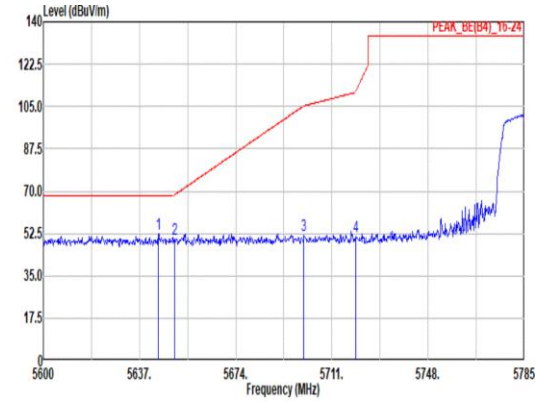
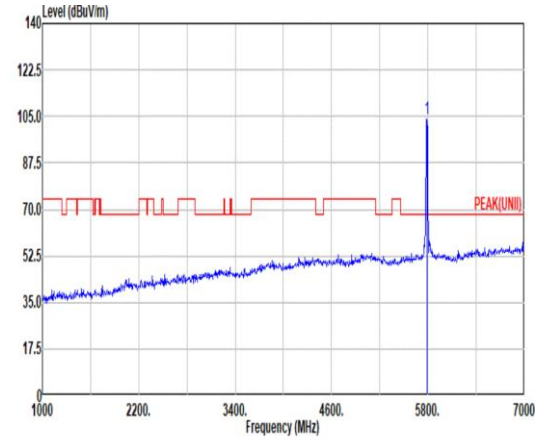
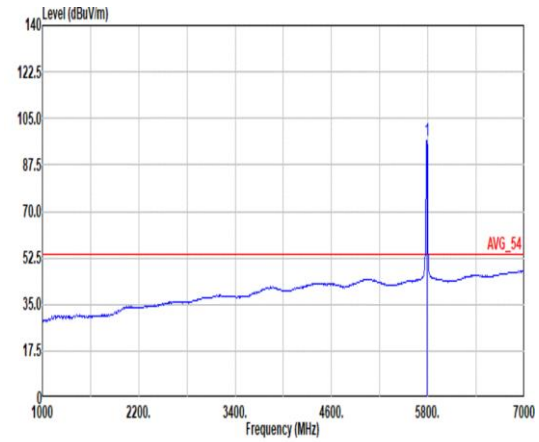
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
30	802.11a Tx	149	5611.75	51.97	68.20	-16.23	H	Peak	Pass	-	Band Edge
	802.11a Tx	149	17235.00	47.08	68.20	-21.12	H	Peak	Pass	-	Harmonic
31	802.11a Tx	157	5934.66	53.00	68.20	-15.20	H	Peak	Pass	-	Band Edge
	802.11a Tx	157	17355.00	47.13	68.20	-21.07	V	Peak	Pass	-	Harmonic
32	802.11a Tx	165	5927.38	52.65	68.20	-15.55	V	Peak	Pass	-	Band Edge
	802.11a Tx	165	17475.00	47.29	68.20	-20.91	V	Peak	Pass	-	Harmonic
33	802.11n HT20	149	5631.47	52.25	68.20	-15.95	H	Peak	Pass	-	Band Edge
	802.11n HT20	149	17235.00	47.47	68.20	-20.73	V	Peak	Pass	-	Harmonic
34	802.11n HT20	157	5945.38	52.59	68.20	-15.61	V	Peak	Pass	-	Band Edge
	802.11n HT20	157	17355.00	46.63	68.20	-21.57	H	Peak	Pass	-	Harmonic
35	802.11n HT20	165	5946.13	53.85	68.20	-14.35	H	Peak	Pass	-	Band Edge
	802.11n HT20	165	17475.00	46.38	68.20	-21.82	V	Peak	Pass	-	Harmonic
36	802.11n HT40	151	5929.72	52.80	68.20	-15.40	H	Peak	Pass	-	Band Edge
	802.11n HT40	151	17265.00	47.48	68.20	-20.72	V	Peak	Pass	-	Harmonic
37	802.11n HT40	159	5939.93	53.16	68.20	-15.04	V	Peak	Pass	-	Band Edge
	802.11n HT40	159	17385.00	46.49	68.20	-21.71	H	Peak	Pass	-	Harmonic
38	802.11ac VHT80	155	5949.83	53.04	68.20	-15.16	V	Peak	Pass	-	Band Edge
	802.11ac VHT80	155	17325.00	47.45	68.20	-20.75	V	Peak	Pass	-	Harmonic
39	LF	165	39.70	31.86	40.00	-8.14	V	QP	Pass	-	LF
42	SHF	165	39516.80	49.78	54.00	-4.22	H	Avg.	Pass	-	SHF

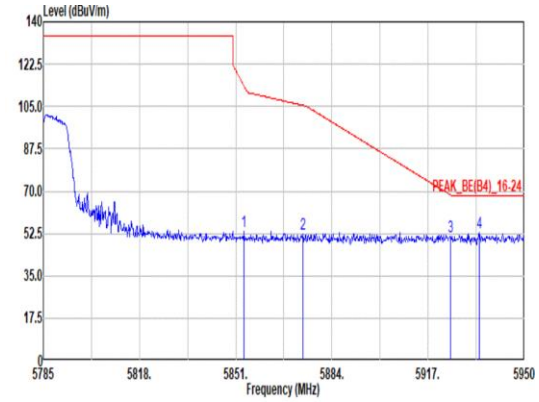
Mode	30	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a Tx_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq / Level / Limit Line / Margin / Read Level / Ant Factor / Cable Loss / Preamp Factor / Aux Factor / APos / TPos / Remark 1 5611.75 51.97 68.20 -16.23 41.06 33.02 10.77 32.88 0.00 230 122 PEAK 2 5651.04 50.52 68.97 -18.45 39.52 33.11 10.78 32.89 0.00 230 122 PEAK 3 5719.19 58.68 110.57 -51.89 47.20 33.58 10.81 32.91 0.00 230 122 PEAK 4 5720.06 55.35 110.94 -55.59 43.87 33.58 10.81 32.91 0.00 230 122 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 5745.00 103.77 ------ ------ 92.18 33.68 10.83 32.92 0.00 230 122 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz SWT:Auto Freq / Level / Limit Line / Margin / Read Level / Ant Factor / Cable Loss / Preamp Factor / Aux Factor / APos / TPos / Remark 1 5745.00 96.69 ------ ------ 85.10 33.68 10.83 32.92 0.00 230 122 AVERAGE

Mode	30	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a Tx_CH149_5745MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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 5644.81 51.00 68.20 -17.20 40.02 33.09 10.78 32.89 0.00 305 205 PEAK 2 5650.75 50.13 68.76 -18.63 39.13 33.11 10.78 32.89 0.00 305 205 PEAK 3 5701.65 50.99 105.66 -54.67 39.57 33.51 10.81 32.90 0.00 305 205 PEAK 4 5720.64 51.37 112.26 -60.89 39.89 33.58 10.81 32.91 0.00 305 205 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 94.74 ------ ------ 83.15 33.68 10.83 32.92 0.00 305 205 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 88.38 ------ ------ 76.79 33.68 10.83 32.92 0.00 305 205 AVERAGE

Mode	30	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 46.76 74.00 -27.24 51.10 39.00 18.24 61.88 0.30 -- -- PEAK 2 17235.00 47.08 68.20 -21.12 43.33 38.44 23.18 58.23 0.36 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 47.45 74.00 -26.55 51.79 39.00 18.24 61.88 0.30 -- -- PEAK 2 17235.00 46.84 68.20 -21.36 43.09 38.44 23.18 58.23 0.36 -- -- PEAK

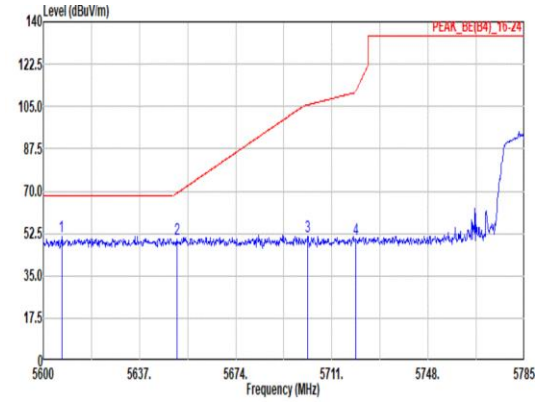
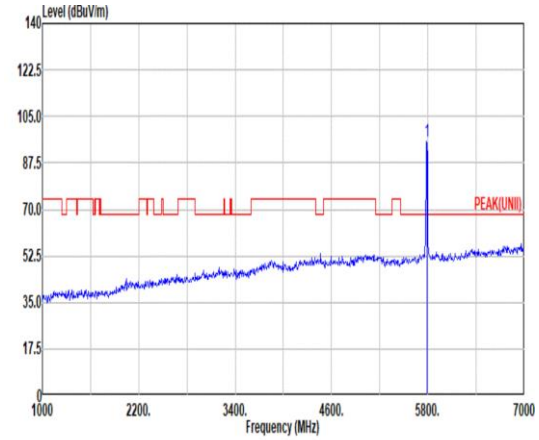
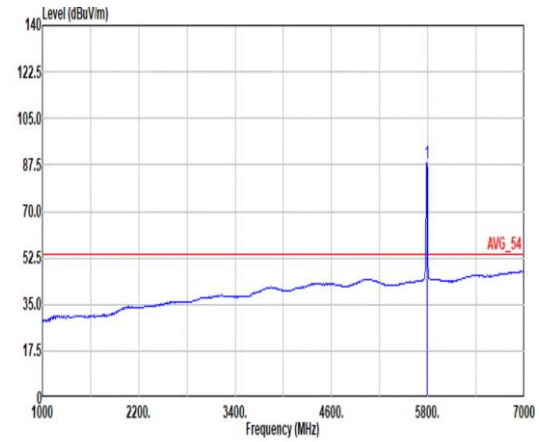
Mode	30	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

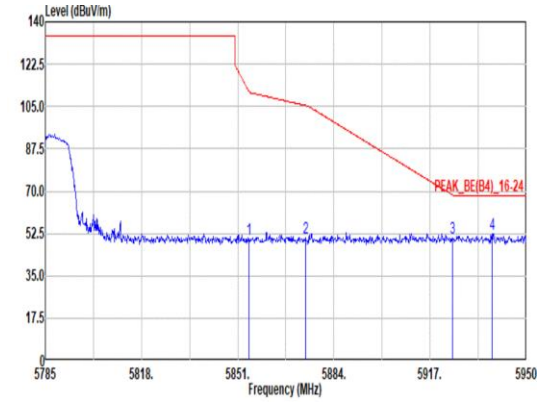
Mode	31	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5644.22 52.10 68.20 -16.10 41.12 33.09 10.78 32.89 0.00 281 120 PEAK 2 5650.51 50.10 68.58 -18.48 39.11 33.10 10.78 32.89 0.00 281 120 PEAK 3 5700.27 51.59 105.28 -53.69 40.18 33.50 10.81 32.90 0.00 281 120 PEAK 4 5720.07 51.05 110.95 -59.90 39.57 33.58 10.81 32.91 0.00 281 120 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 5785.00 103.83 ------ ------ 92.09 33.83 10.84 32.93 0.00 281 120 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz 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 96.76 ------ ------ 85.02 33.83 10.84 32.93 0.00 281 120 AVERAGE

Mode	31	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak		Blank

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

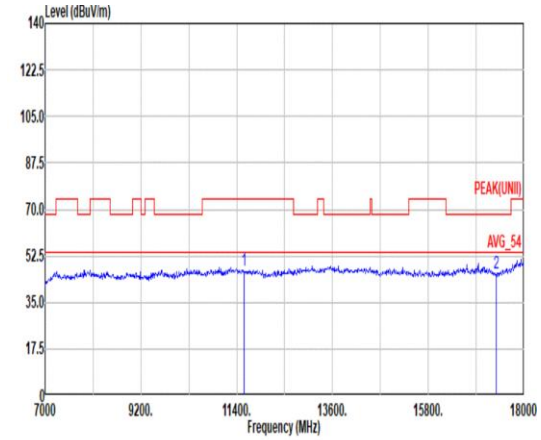
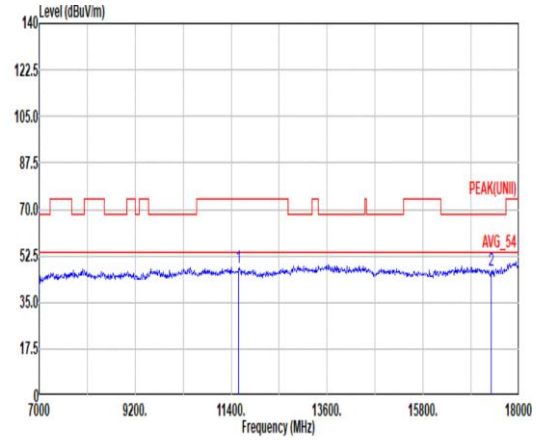
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5853.81	53.23	113.52	-60.29	41.29	34.02	10.87	32.95	0.00	281	120	PEAK
2	5874.10	52.45	105.45	-53.00	40.43	34.10	10.88	32.96	0.00	281	120	PEAK
3	5924.59	51.48	68.50	-17.02	39.32	34.25	10.89	32.98	0.00	281	120	PEAK
4	5934.66	53.00	68.20	-15.20	40.81	34.27	10.90	32.98	0.00	281	120	PEAK

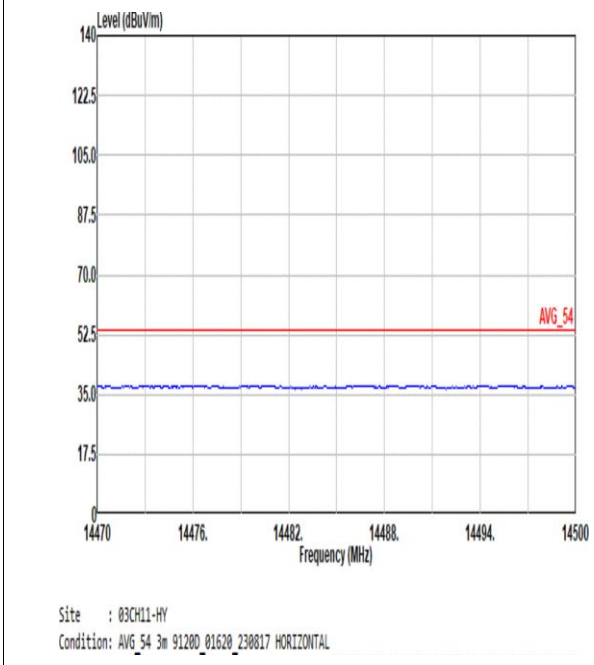
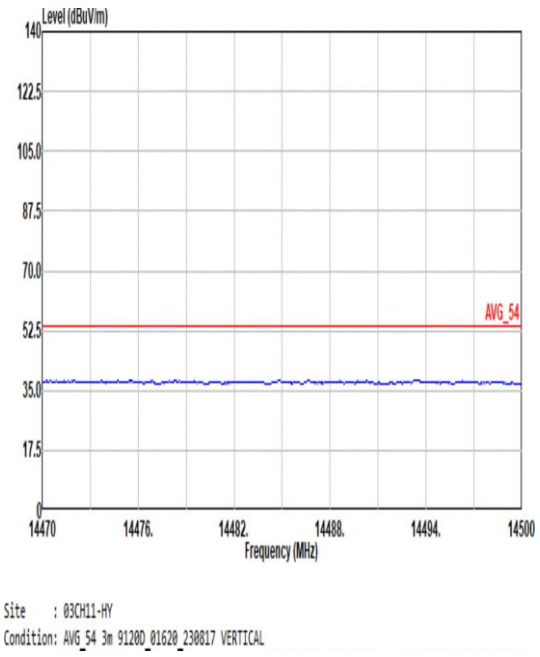
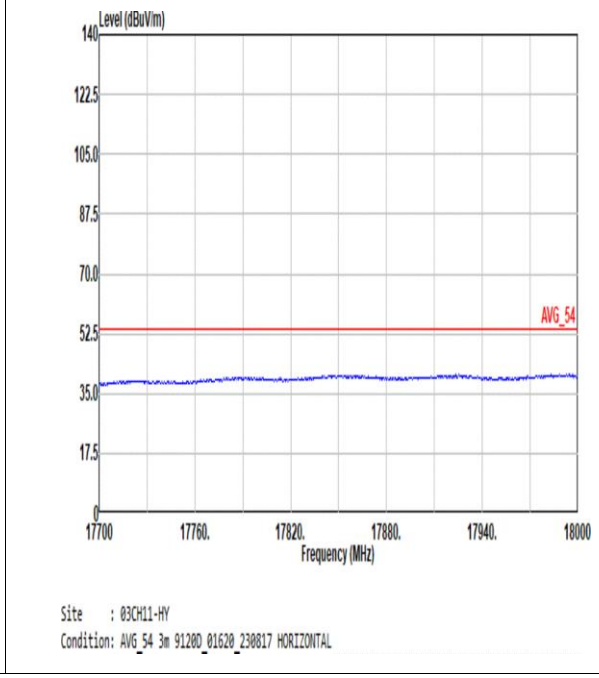
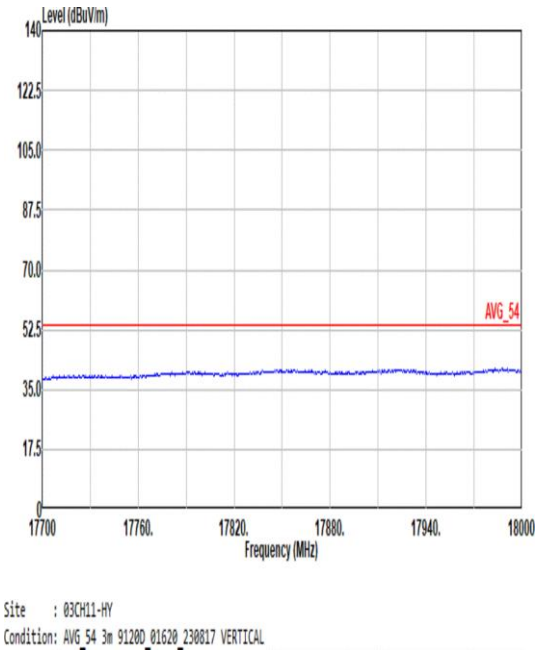
Mode	31	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5607.03 51.38 68.20 -16.82 40.48 33.01 10.76 32.87 0.00 178 148 PEAK 2 5651.43 49.97 69.26 -19.29 38.97 33.11 10.78 32.89 0.00 178 148 PEAK 3 5701.75 51.05 105.69 -54.64 39.63 33.51 10.81 32.90 0.00 178 148 PEAK 4 5720.07 50.27 110.95 -60.68 38.79 33.58 10.81 32.91 0.00 178 148 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 95.40 ------ ------ 83.66 33.83 10.84 32.93 0.00 178 148 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 88.25 ------ ------ 76.49 33.85 10.84 32.93 0.00 178 148 AVERAGE

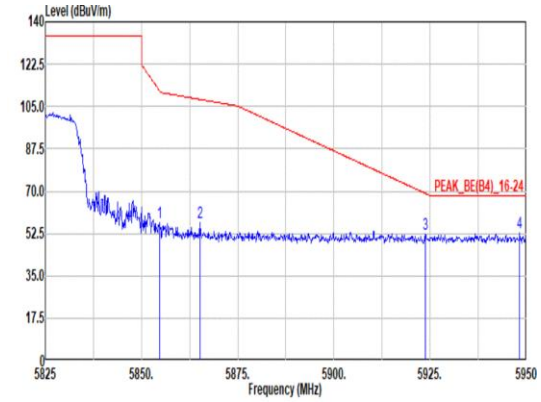
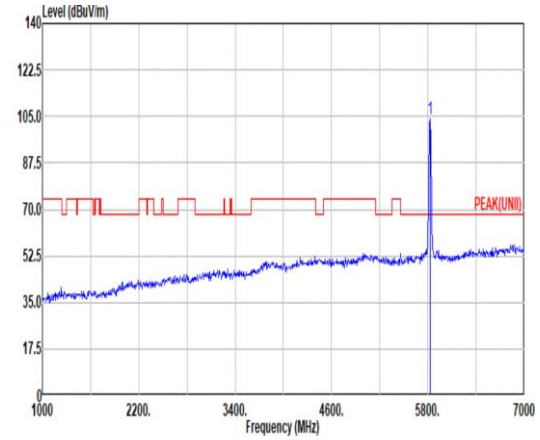
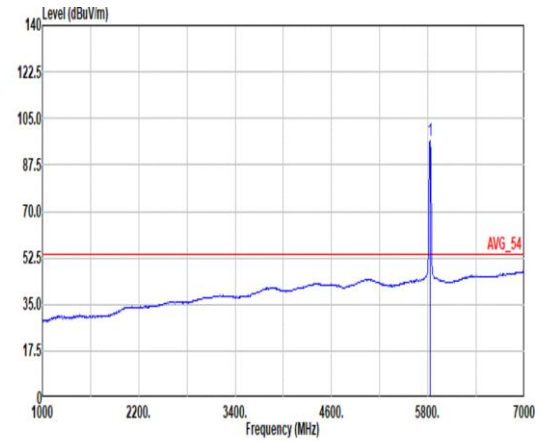
Mode	31	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak		Blank

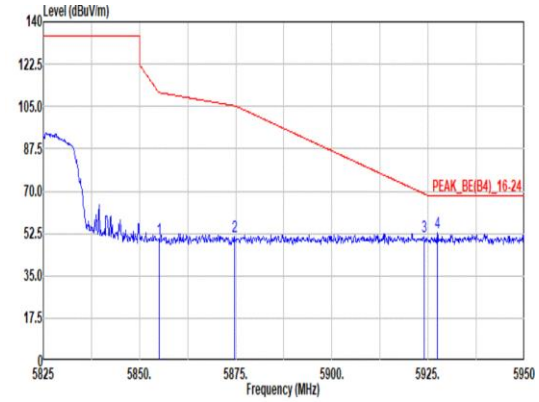
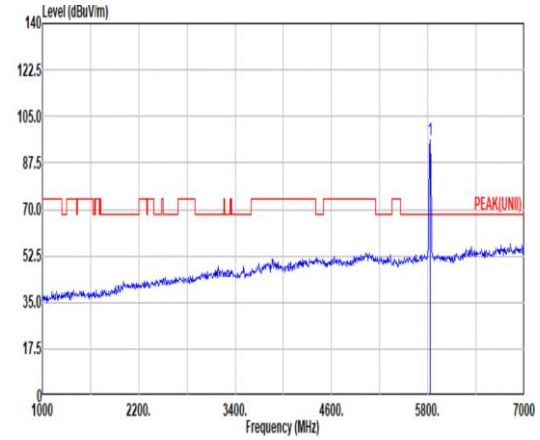
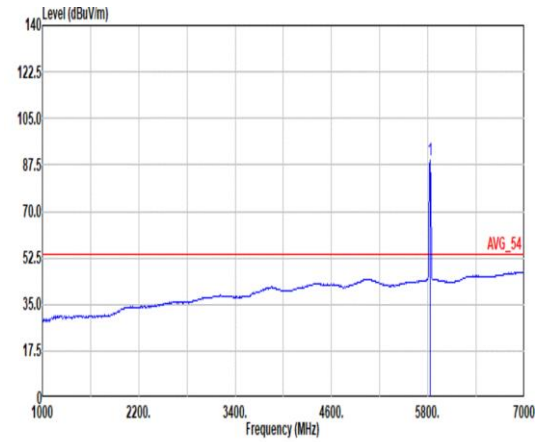
Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

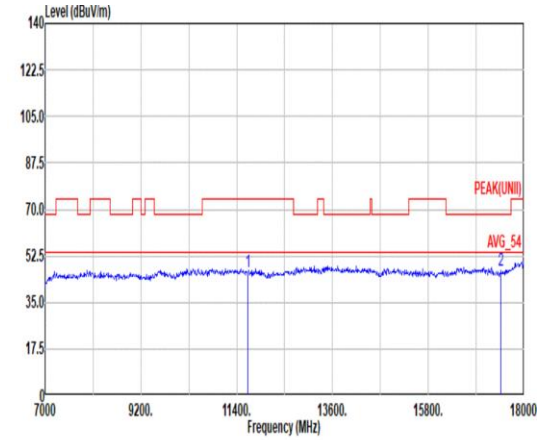
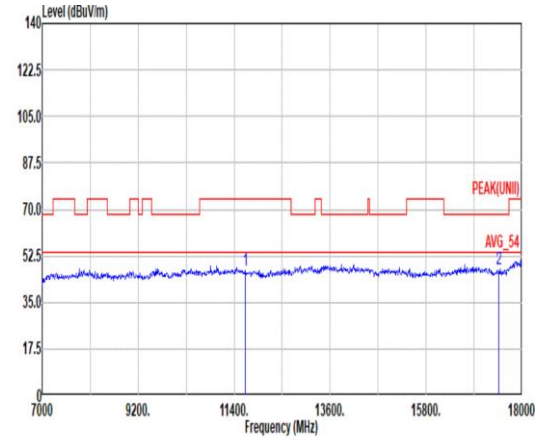
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5854.96	50.33	110.89	-60.56	38.39	34.02	10.87	32.95	0.00	178	148	PEAK
2	5874.27	50.75	105.41	-54.66	38.73	34.10	10.88	32.96	0.00	178	148	PEAK
3	5924.59	50.95	68.50	-17.55	38.79	34.25	10.89	32.98	0.00	178	148	PEAK
4	5938.29	52.39	68.20	-15.81	40.19	34.28	10.90	32.98	0.00	178	148	PEAK

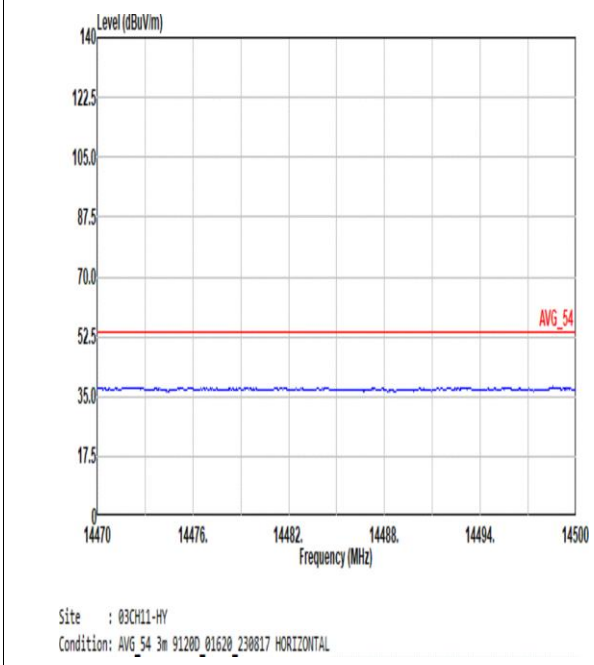
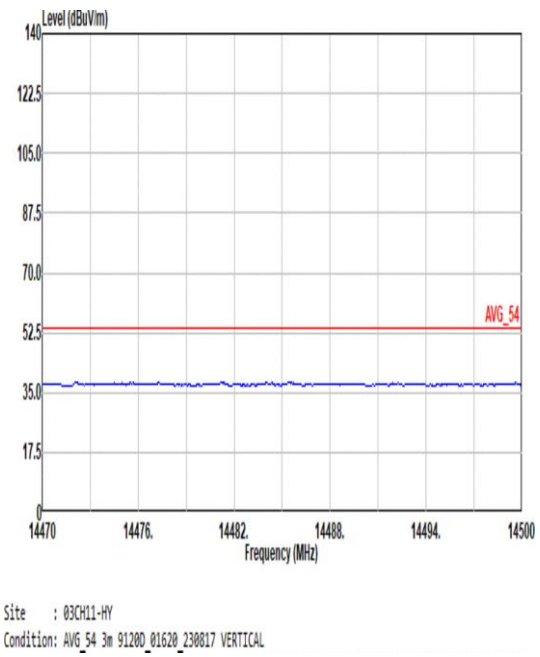
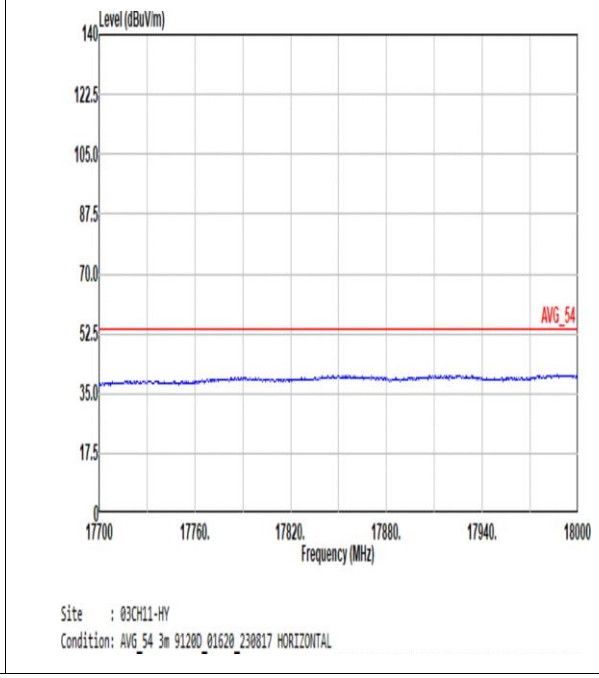
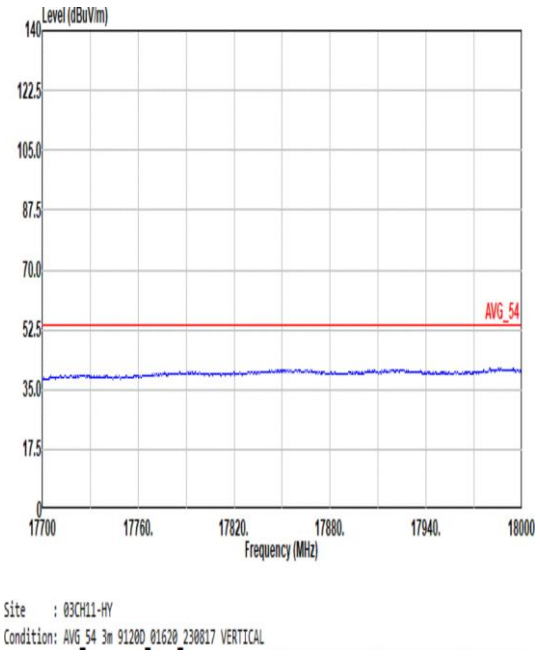
Mode	31	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11570.00 46.90 74.00 -27.10 51.52 38.82 18.33 62.07 0.30 -- -- PEAK 2 17355.00 45.80 68.20 -22.40 41.50 38.61 23.25 57.93 0.37 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 48.09 74.00 -25.91 52.71 38.82 18.33 62.07 0.30 -- -- PEAK 2 17355.00 47.13 68.20 -21.07 42.83 38.61 23.25 57.93 0.37 -- -- PEAK

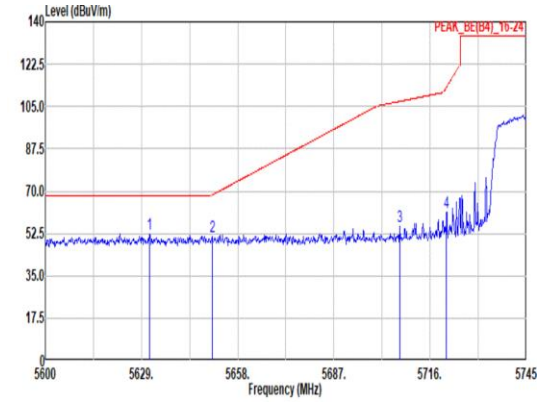
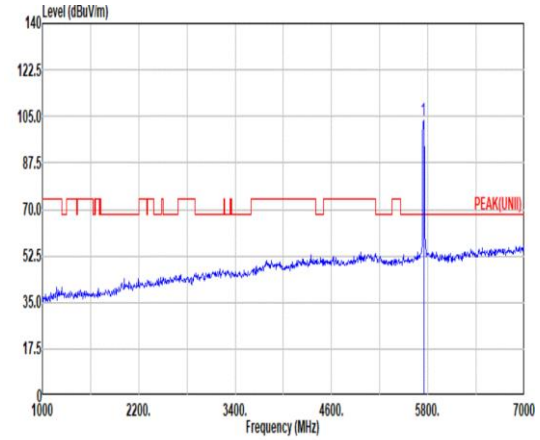
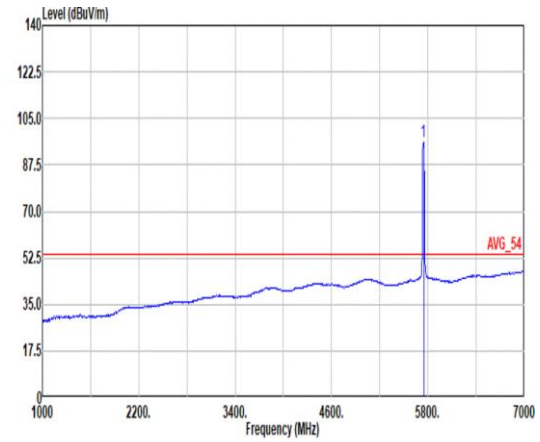
Mode	31	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	32	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a Tx_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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 5854.63 57.31 111.65 -54.34 45.37 34.02 10.87 32.95 0.00 292 150 PEAK 2 5865.13 56.83 107.96 -51.13 44.86 34.06 10.87 32.96 0.00 292 150 PEAK 3 5923.75 52.38 69.12 -16.74 40.22 34.25 10.89 32.98 0.00 292 150 PEAK 4 5948.25 52.62 68.20 -15.58 40.40 34.30 10.90 32.98 0.00 292 150 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 5825.00 103.94 ------ ------ 92.07 33.95 10.86 32.94 0.00 292 150 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz 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 96.89 ------ ------ 85.02 33.95 10.86 32.94 0.00 292 150 AVERAGE

Mode	32	
	Band Edge	
	U-NII-3_5.725-5.85_802.11a Tx_CH165_5825MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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 5855.00 50.22 110.80 -60.58 38.28 34.02 10.87 32.95 0.00 380 144 PEAK 2 5874.63 51.37 105.30 -53.93 39.35 34.10 10.88 32.96 0.00 380 144 PEAK 3 5924.00 51.09 68.94 -17.85 38.93 34.25 10.89 32.98 0.00 380 144 PEAK 4 5927.38 52.65 68.20 -15.55 40.49 34.25 10.89 32.98 0.00 380 144 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 96.14 ------ ------ 84.27 33.95 10.86 32.94 0.00 380 144 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 89.21 ------ ------ 77.34 33.95 10.86 32.94 0.00 380 144 AVERAGE

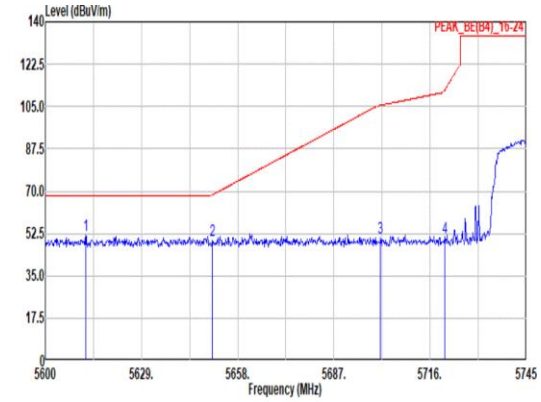
Mode	32	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 11650.00 46.25 74.00 -27.75 51.21 38.60 18.41 62.27 0.30 -- -- PEAK 2 17475.00 46.92 68.20 -21.28 42.19 38.65 23.32 57.62 0.38 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 46.85 74.00 -27.15 51.81 38.60 18.41 62.27 0.30 -- -- PEAK 2 17475.00 47.29 68.20 -20.91 42.56 38.65 23.32 57.62 0.38 -- -- PEAK

Mode	32	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a Tx_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	33	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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 5631.47 52.25 68.20 -15.95 41.30 33.06 10.77 32.88 0.00 277 120 PEAK 2 5650.32 51.28 68.43 -17.15 40.29 33.10 10.78 32.89 0.00 277 120 PEAK 3 5706.87 55.63 107.12 -51.49 44.20 33.53 10.81 32.91 0.00 277 120 PEAK 4 5720.93 61.23 112.92 -51.69 49.75 33.58 10.81 32.91 0.00 277 120 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 5745.00 103.36 ------ ------ 91.77 33.68 10.83 32.92 0.00 277 120 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz 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 96.37 ------ ------ 84.78 33.68 10.83 32.92 0.00 277 120 AVERAGE

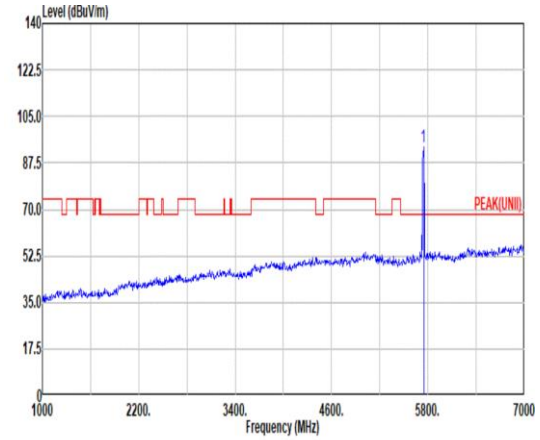
Mode	33	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Vertical	Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5612.18	51.70	68.20	-16.50	40.79	33.02	10.77	32.88	0.00	181	145	PEAK
2	5650.32	49.48	68.43	-18.95	38.49	33.10	10.78	32.89	0.00	181	145	PEAK
3	5701.07	50.79	105.50	-54.71	39.38	33.50	10.81	32.90	0.00	181	145	PEAK
4	5720.35	50.88	111.60	-60.72	39.40	33.58	10.81	32.91	0.00	181	145	PEAK

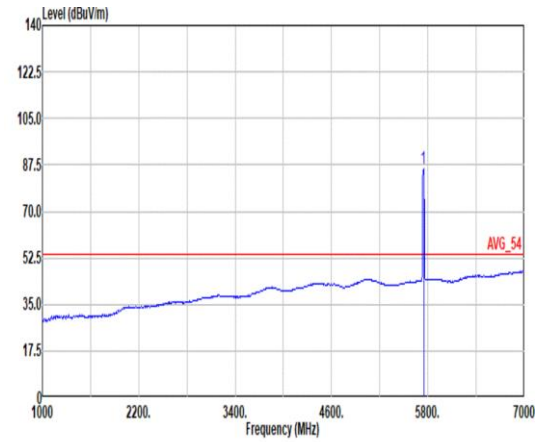


Site : 03CH11-HY
Condition: PEAK(UNII) 3m 9120D_01620_230817 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

	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	93.63	------	------	82.04	33.68	10.83	32.92	0.00	181	145	PEAK

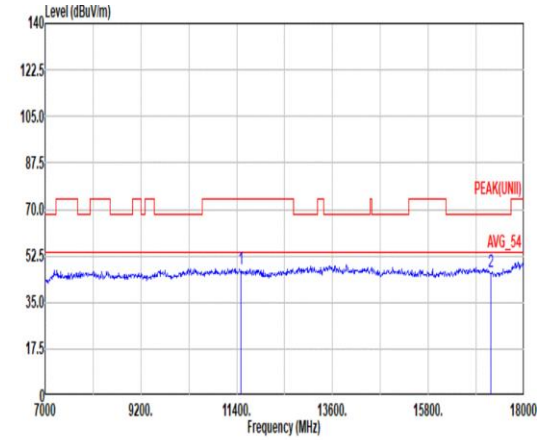
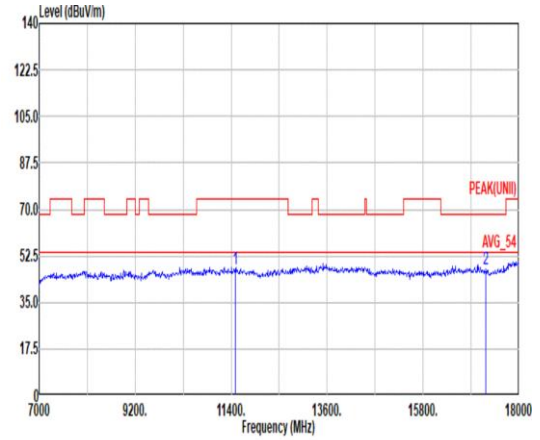
Avg

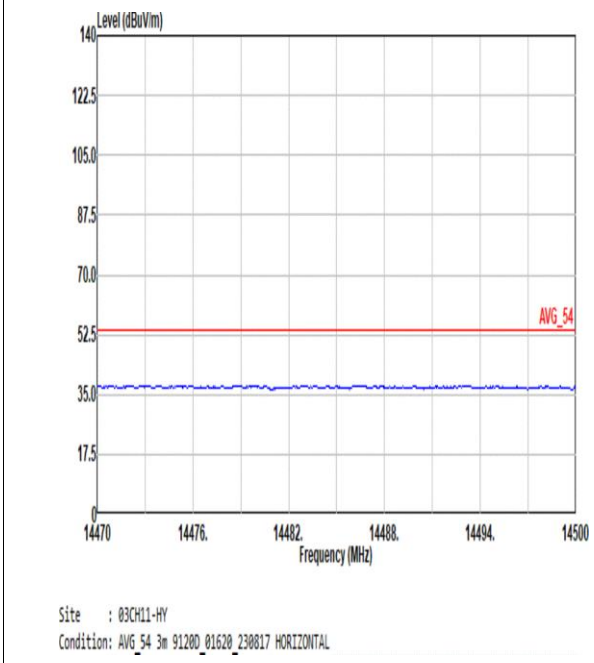
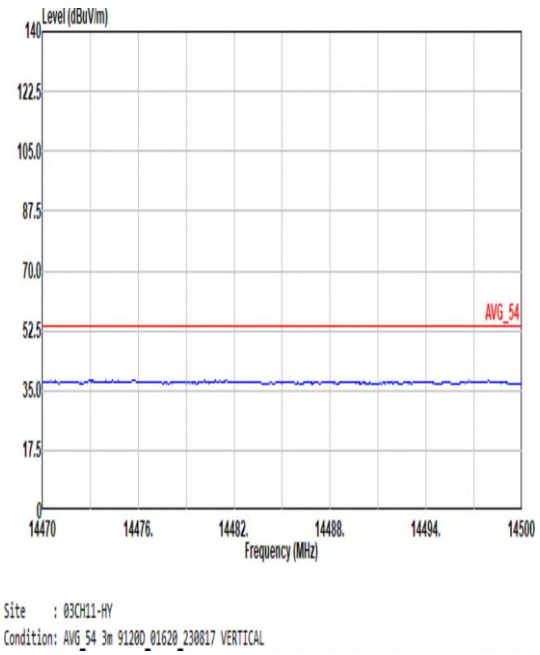
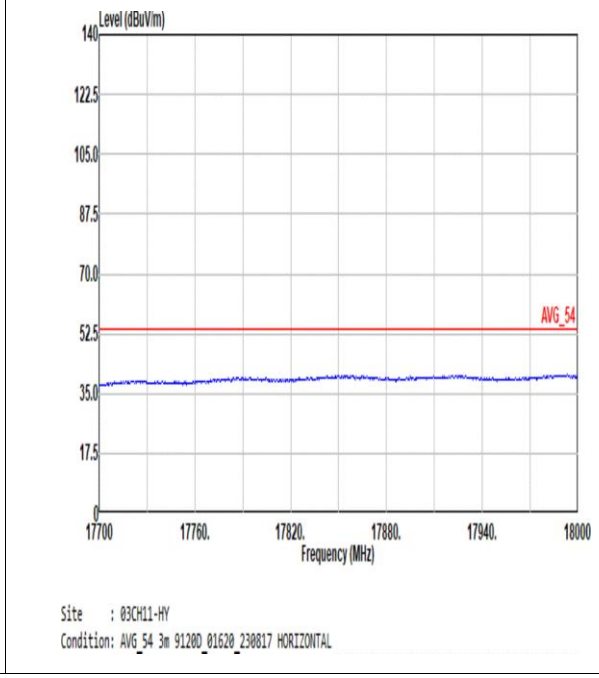
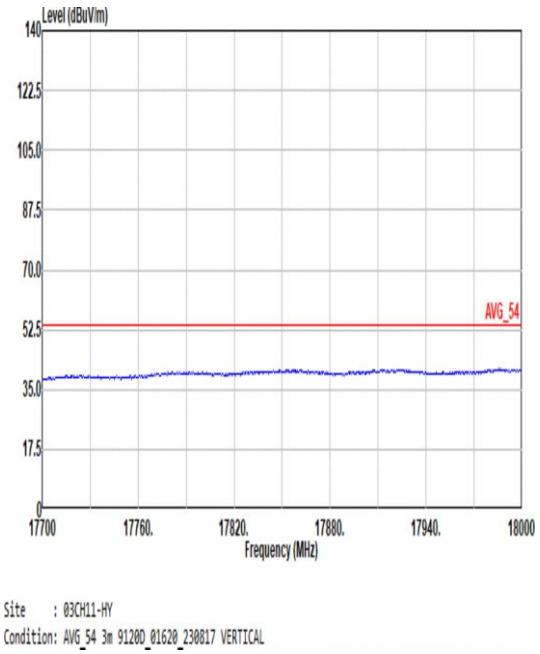
Blank



Site : 03CH11-HY
Condition: AVG_54 3m 9120D_01620_230817 VERTICAL
: RBW:1000.000kHz VBW:0.820kHz SWT:Auto

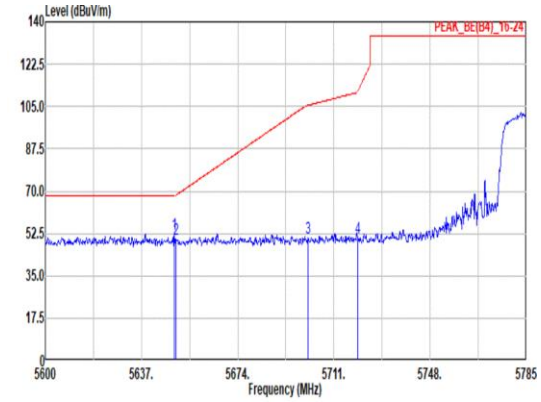
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5745.00	86.34	------	------	74.75	33.68	10.83	32.92	0.00	181	145	AVERAGE

Mode	33	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 47.55 74.00 -26.45 51.89 39.00 18.24 61.88 0.30 -- -- PEAK 2 17235.00 46.62 68.20 -21.58 42.87 38.44 23.18 58.23 0.36 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 47.36 74.00 -26.64 51.70 39.00 18.24 61.88 0.30 -- -- PEAK 2 17235.00 47.47 68.20 -20.73 43.72 38.44 23.18 58.23 0.36 -- -- PEAK

Mode	33	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH149_5745MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

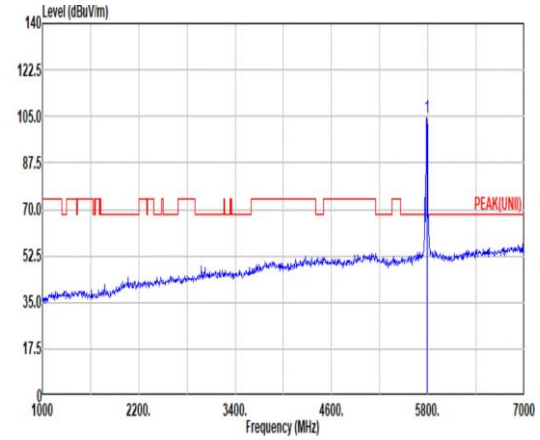
Mode	34	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5649.58	52.35	68.20	-15.85	41.36	33.10	10.78	32.89	0.00	281	117	PEAK
2	5650.32	49.98	68.44	-18.46	38.99	33.10	10.78	32.89	0.00	281	117	PEAK
3	5701.01	50.72	105.48	-54.76	39.31	33.50	10.81	32.90	0.00	281	117	PEAK
4	5720.07	50.98	110.95	-59.97	39.50	33.58	10.81	32.91	0.00	281	117	PEAK

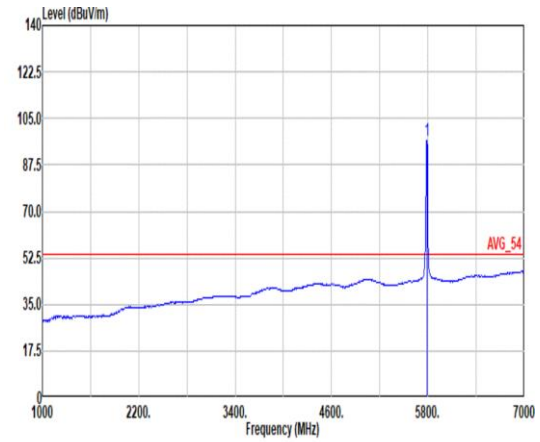


Site : 03CH11-HY
Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

	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	104.84	------	------	93.10	33.83	10.84	32.93	0.00	281	117	PEAK

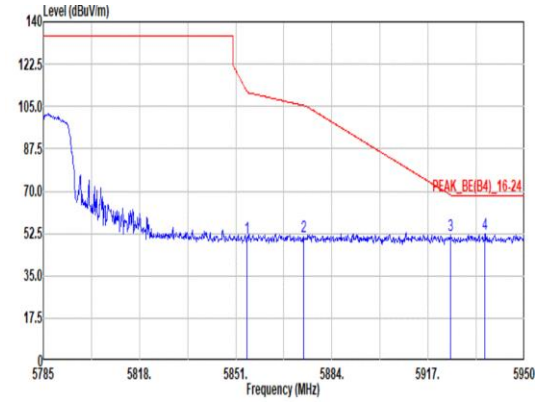
Avg

Blank



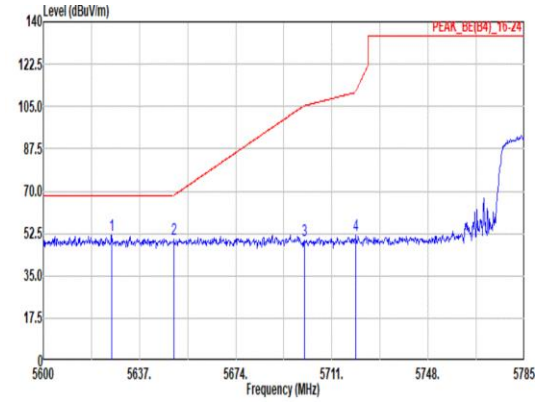
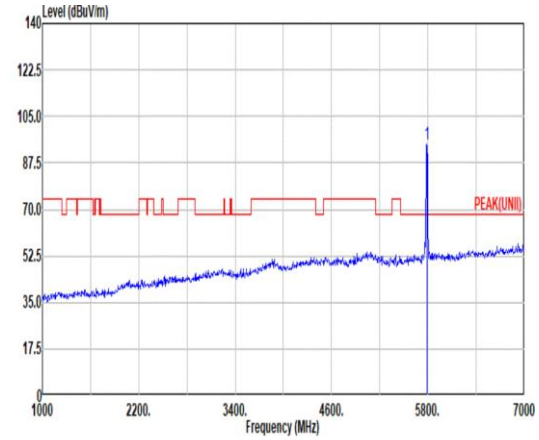
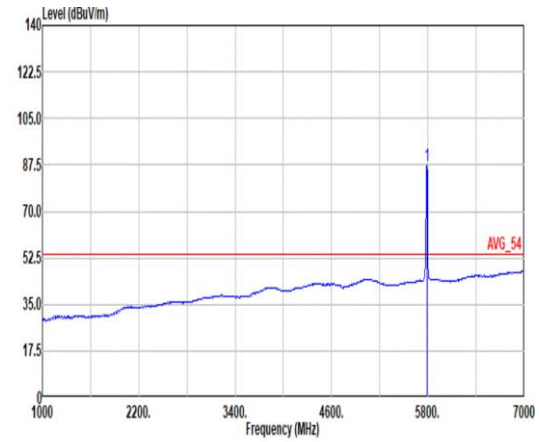
Site : 03CH11-HY
Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:0.820kHz SWT:Auto

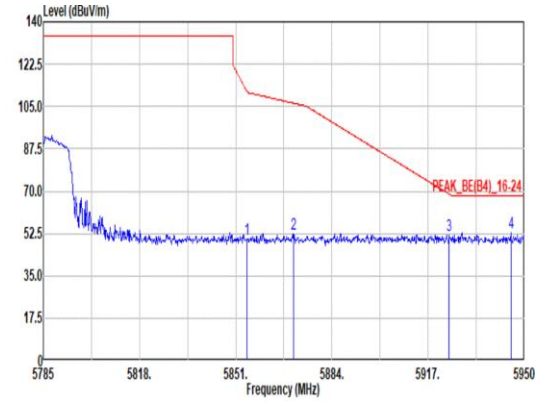
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5785.00	96.90	------	------	85.16	33.83	10.84	32.93	0.00	281	117	AVERAGE

Mode	34	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak		Blank

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

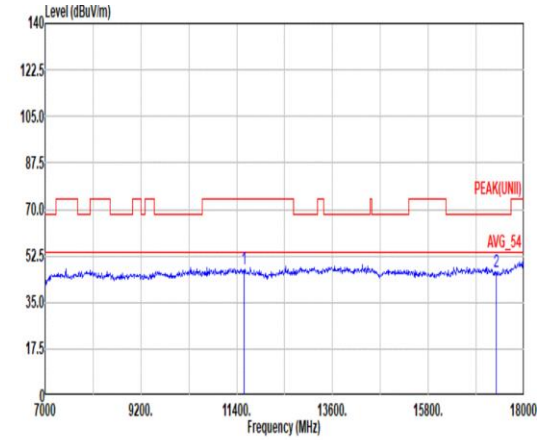
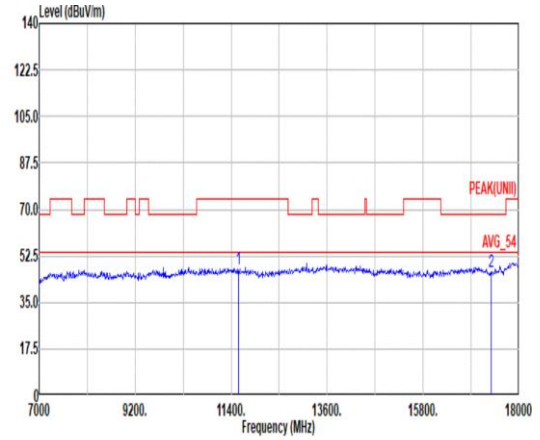
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5854.96	50.62	110.89	-60.27	38.68	34.02	10.87	32.95	0.00	281	117	PEAK
2	5874.43	51.32	105.36	-54.04	39.30	34.10	10.88	32.96	0.00	281	117	PEAK
3	5924.76	51.88	68.38	-16.50	39.72	34.25	10.89	32.98	0.00	281	117	PEAK
4	5936.47	52.19	68.20	-16.01	40.00	34.27	10.90	32.98	0.00	281	117	PEAK

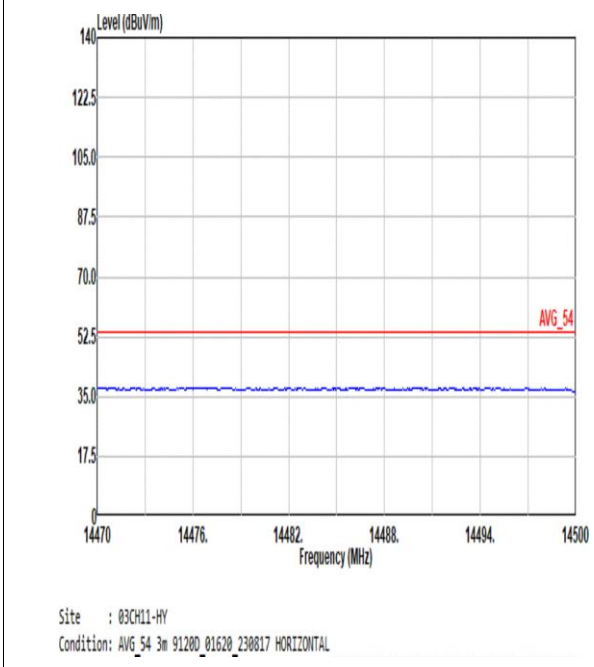
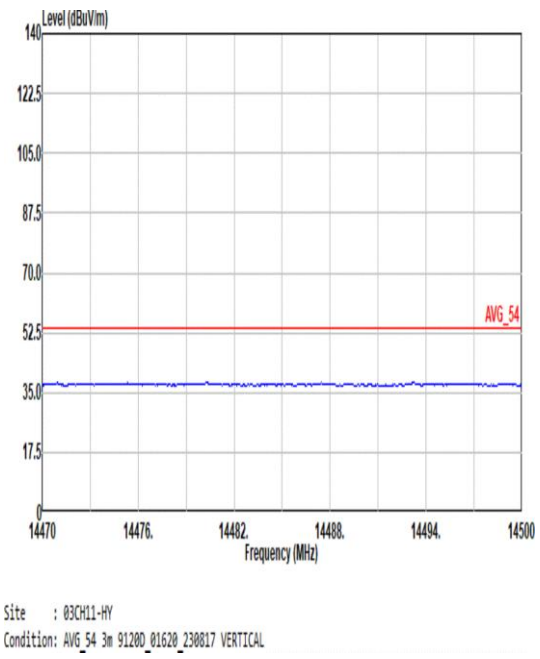
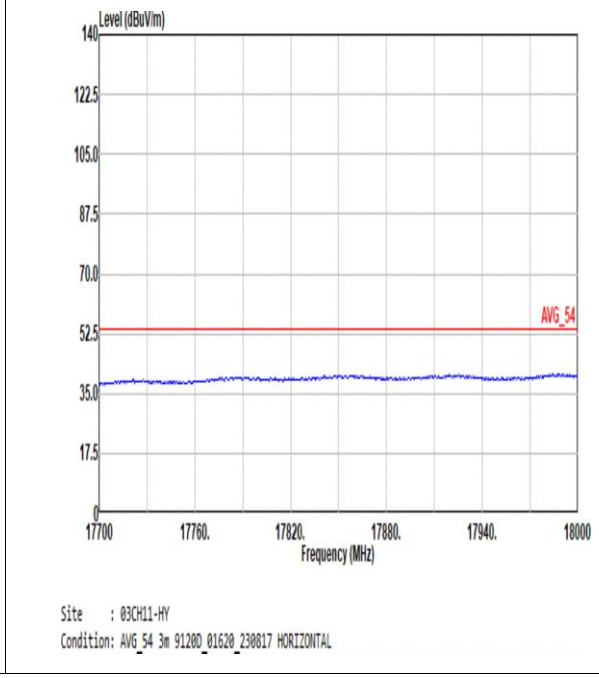
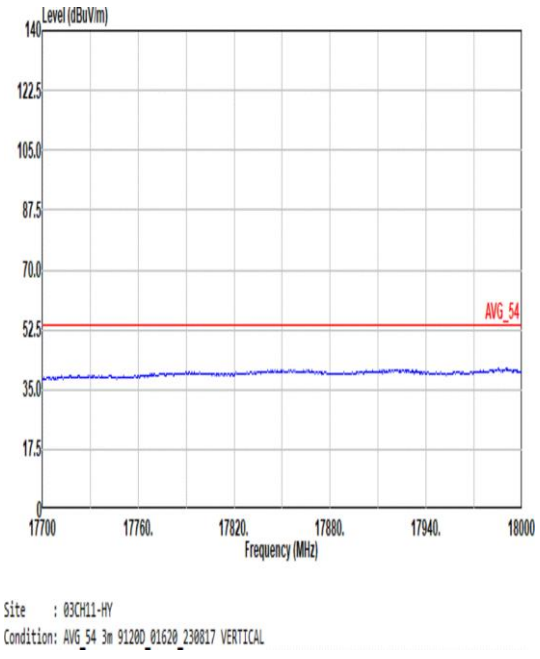
Mode	34	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5626.27 51.67 68.20 -16.53 40.73 33.05 10.77 32.88 0.00 100 153 PEAK 2 5650.32 50.19 68.44 -18.25 39.20 33.10 10.78 32.89 0.00 100 153 PEAK 3 5700.46 49.72 105.33 -55.61 38.31 33.50 10.81 32.90 0.00 100 153 PEAK 4 5720.25 51.61 111.37 -59.76 40.13 33.58 10.81 32.91 0.00 100 153 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 94.81 ------ ------ 83.07 33.83 10.84 32.93 0.00 100 153 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 87.32 ------ ------ 75.58 33.83 10.84 32.93 0.00 100 153 AVERAGE

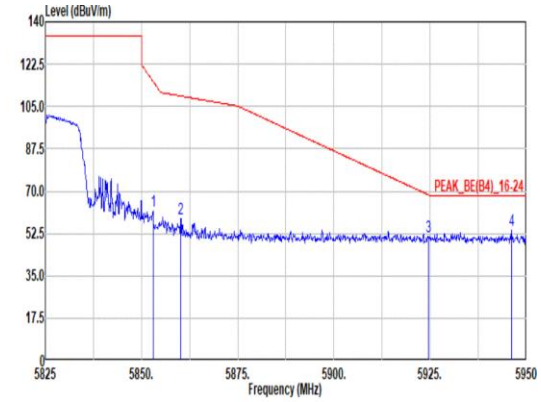
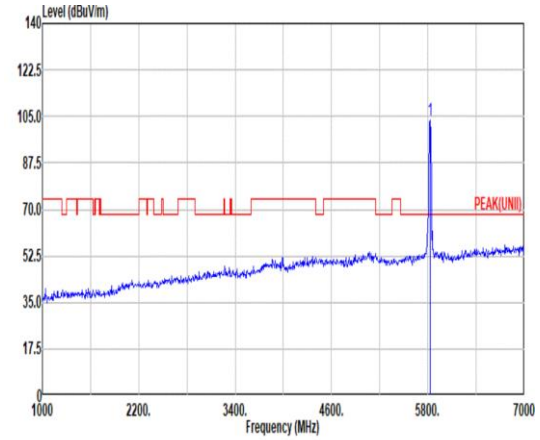
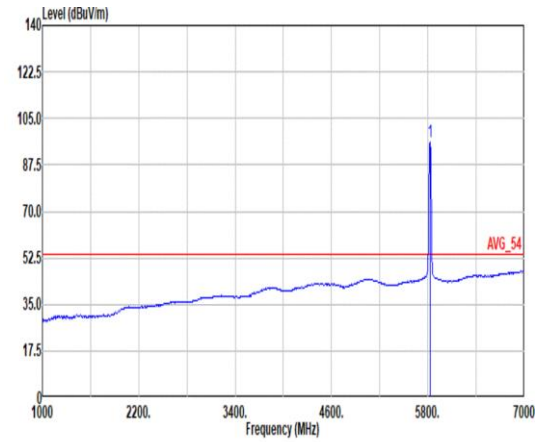
Mode	34	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak		Blank

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5854.96	50.27	110.89	-60.62	38.33	34.02	10.87	32.95	0.00	100	153	PEAK
2	5870.97	52.44	106.33	-53.89	40.45	34.08	10.87	32.96	0.00	100	153	PEAK
3	5924.26	51.57	68.75	-17.18	39.41	34.25	10.89	32.98	0.00	100	153	PEAK
4	5945.38	52.59	68.20	-15.61	40.38	34.29	10.90	32.98	0.00	100	153	PEAK

Mode	34	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL 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 11570.00 47.43 74.00 -26.57 52.05 38.82 18.33 62.07 0.30 -- -- PEAK 2 17355.00 46.63 68.20 -21.57 42.33 38.61 23.25 57.93 0.37 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 VERTICAL 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 11570.00 47.44 74.00 -26.56 52.06 38.82 18.33 62.07 0.30 -- -- PEAK 2 17355.00 46.48 68.20 -21.72 42.18 38.61 23.25 57.93 0.37 -- -- PEAK

Mode	34	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH157_5785MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

Mode	35	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak		
Avg	Blank	

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

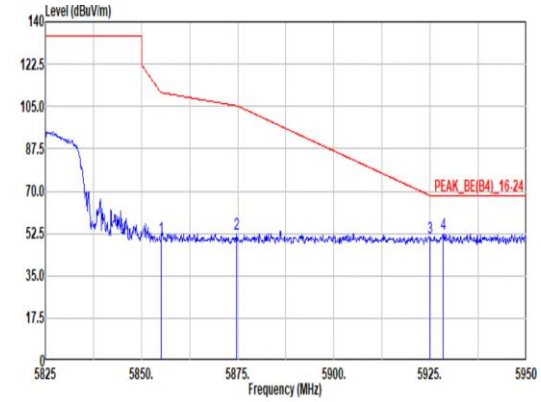
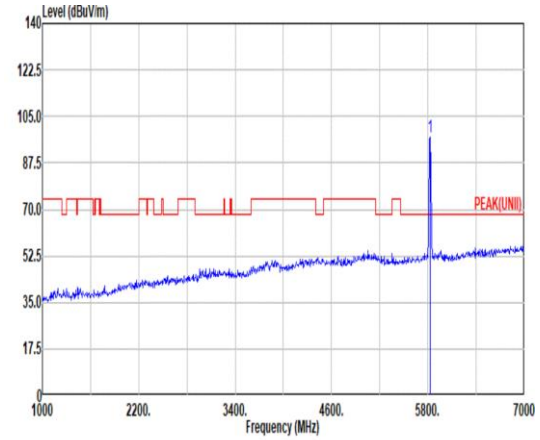
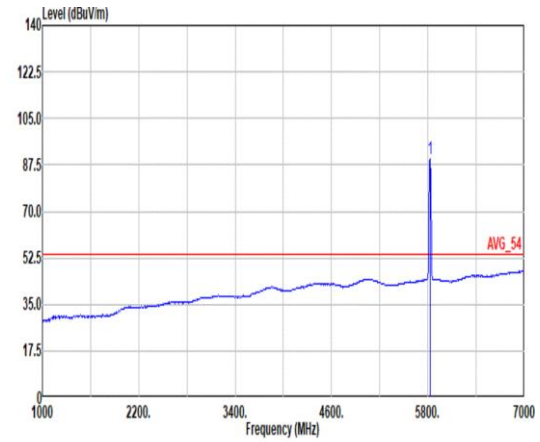
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5853.00	62.01	115.36	-53.35	50.08	34.01	10.87	32.95	0.00	300	154	PEAK
2	5860.13	58.80	109.36	-50.56	46.85	34.04	10.87	32.96	0.00	300	154	PEAK
3	5924.50	51.44	68.57	-17.13	39.28	34.25	10.89	32.98	0.00	300	154	PEAK
4	5946.13	53.85	68.20	-14.35	41.64	34.29	10.90	32.98	0.00	300	154	PEAK

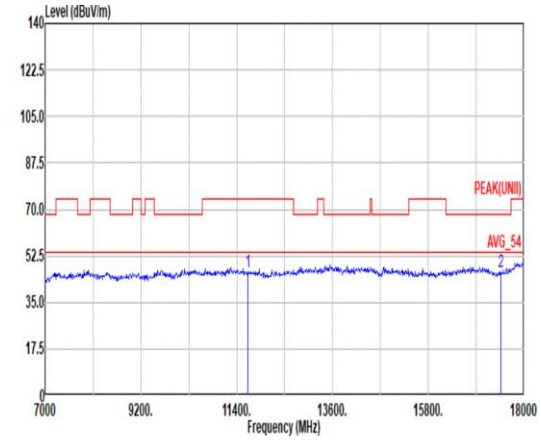
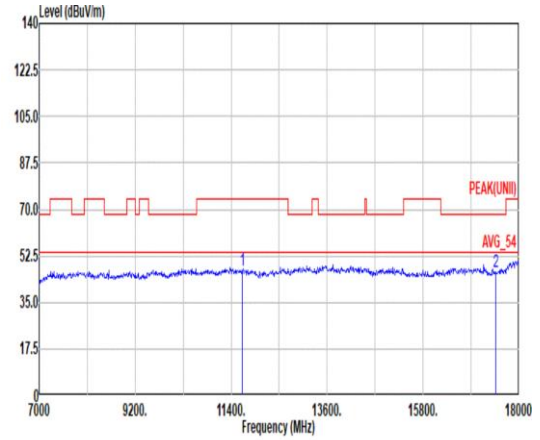
Site : 03CH11-HY
Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

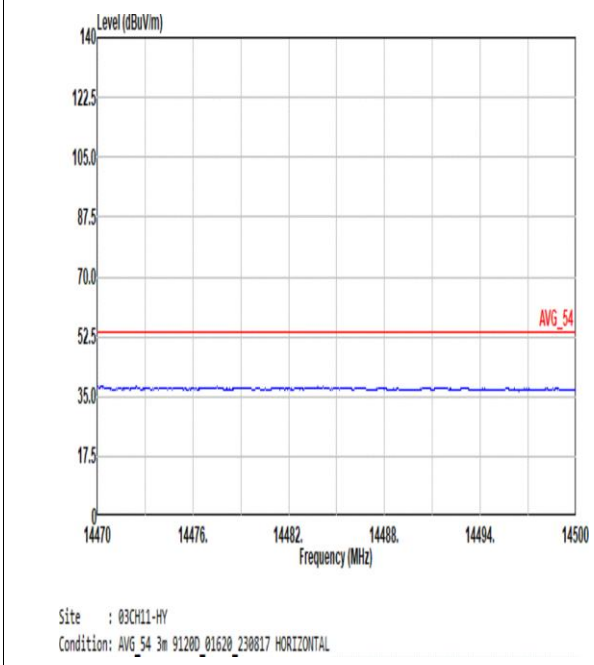
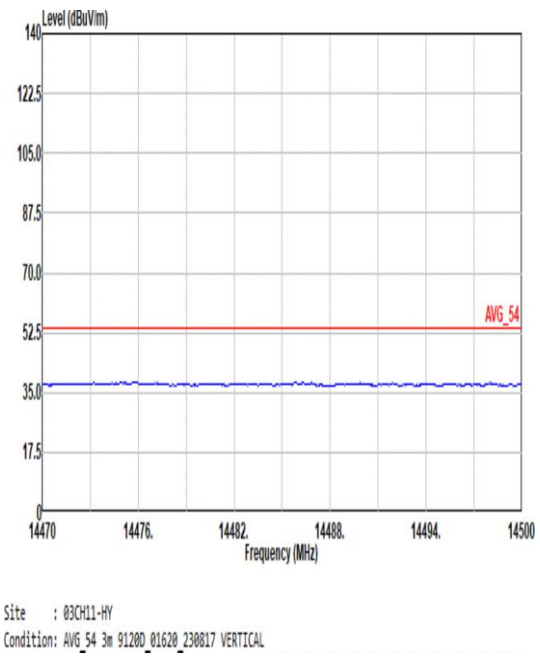
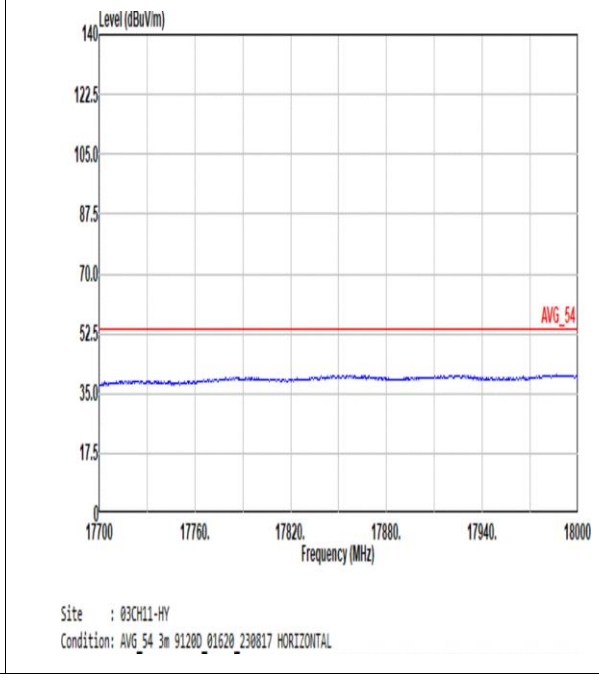
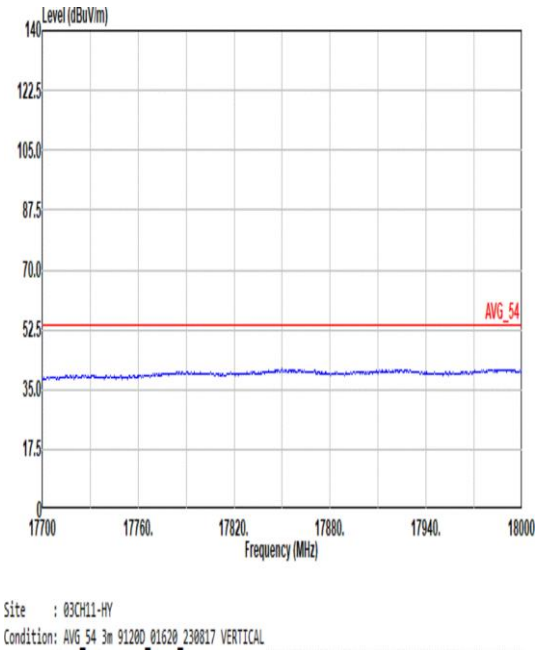
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5825.00	103.49	------	------	91.62	33.96	10.86	32.95	0.00	300	154	PEAK

Site : 03CH11-HY
Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:0.820kHz 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	96.35	------	------	84.48	33.95	10.86	32.94	0.00	300	154	AVERAGE

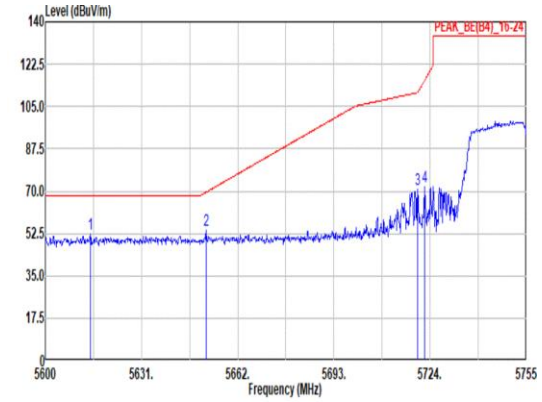
Mode	35	
	Band Edge	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5855.00 50.92 110.80 -59.88 38.98 34.02 10.87 32.95 0.00 380 144 PEAK 2 5874.75 52.11 105.27 -53.16 40.09 34.10 10.88 32.96 0.00 380 144 PEAK 3 5924.88 50.97 68.29 -17.32 38.81 34.25 10.89 32.98 0.00 380 144 PEAK 4 5928.38 52.55 68.20 -15.65 40.38 34.26 10.89 32.98 0.00 380 144 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 97.44 ------ ------ 85.57 33.95 10.86 32.94 0.00 380 144 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 90.00 ------ ------ 78.13 33.95 10.86 32.94 0.00 380 144 AVERAGE

Mode	35	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 46.56 74.00 -27.44 51.52 38.60 18.41 62.27 0.30 -- -- PEAK 2 17475.00 46.26 68.20 -21.94 41.53 38.65 23.32 57.62 0.38 -- -- PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 46.76 74.00 -27.24 51.72 38.60 18.41 62.27 0.30 -- -- PEAK 2 17475.00 46.38 68.20 -21.82 41.65 38.65 23.32 57.62 0.38 -- -- PEAK

Mode	35	
	Harmonic	
	U-NII-3_5.725-5.85_802.11n HT20_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg		
17.7G ~18G Avg		

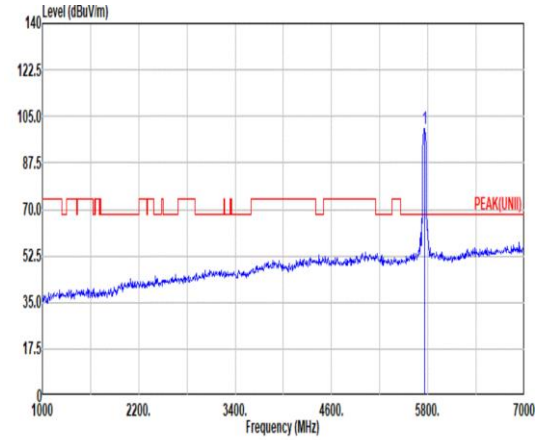
Mode	36	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1	
Pol.	Horizontal	Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5614.42	52.49	68.20	-15.71	41.57	33.03	10.77	32.88	0.00	272	148	PEAK
2	5651.77	53.71	69.52	-15.81	42.71	33.11	10.78	32.89	0.00	272	148	PEAK
3	5719.97	70.57	110.79	-40.22	59.09	33.58	10.81	32.91	0.00	272	148	PEAK
4	5722.30	71.75	116.03	-44.28	60.25	33.59	10.82	32.91	0.00	272	148	PEAK

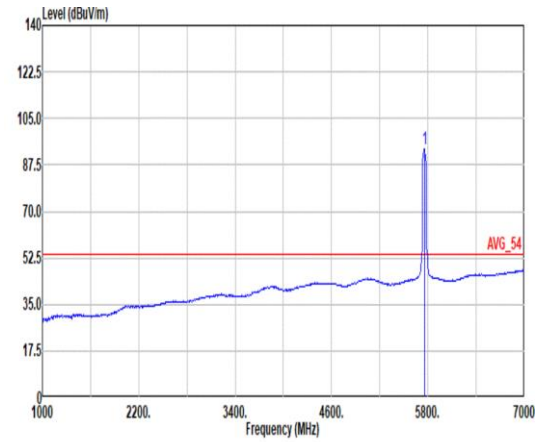


Site : 03CH11-HY
Condition: PEAK(UNII) 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

	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	100.47	------	------	88.83	33.73	10.83	32.92	0.00	272	148	PEAK

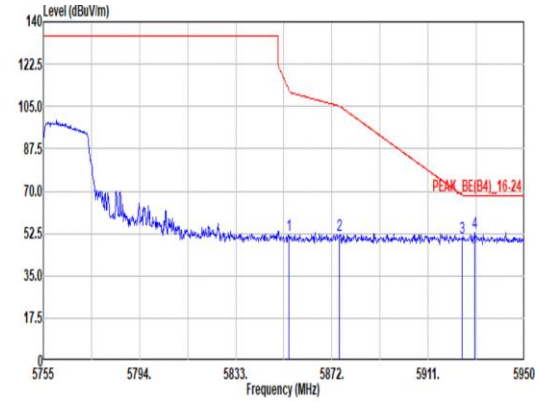
Avg

Blank



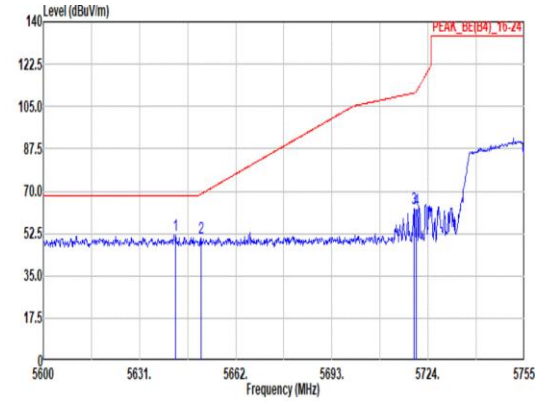
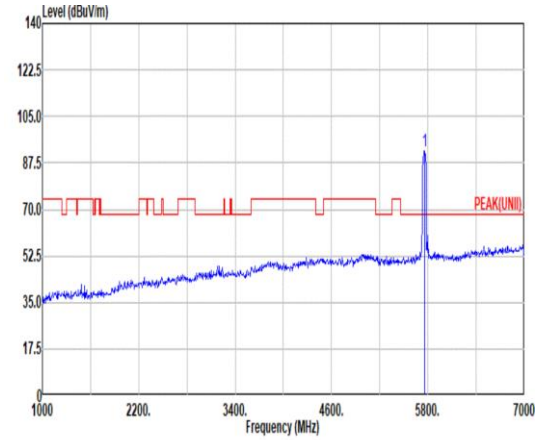
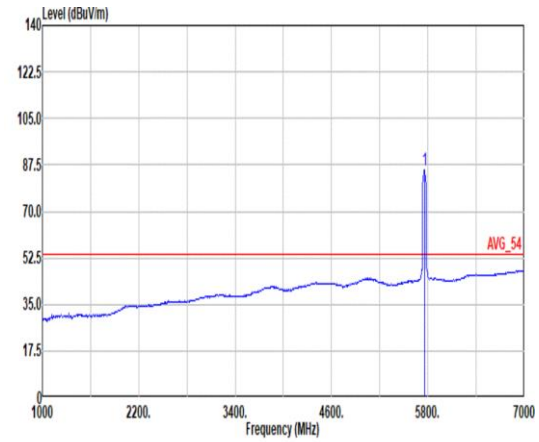
Site : 03CH11-HY
Condition: AVG_54 3m 9120D_01620_230817 HORIZONTAL
: RBW:1000.000kHz VBW:1.600kHz SWT:Auto

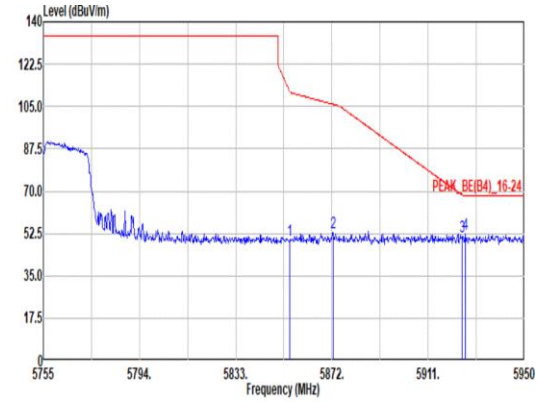
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	5755.00	93.74	------	------	82.12	33.71	10.83	32.92	0.00	272	148	AVERAGE

Mode	36	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak		Blank

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5854.65	51.98	111.61	-59.63	40.04	34.02	10.87	32.95	0.00	272	148	PEAK
2	5874.93	51.76	105.22	-53.46	39.74	34.10	10.88	32.96	0.00	272	148	PEAK
3	5924.85	50.68	68.31	-17.63	38.52	34.25	10.89	32.98	0.00	272	148	PEAK
4	5929.72	52.80	68.20	-15.40	40.62	34.26	10.90	32.98	0.00	272	148	PEAK

Mode	36	
	Band Edge - L	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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 5642.63 51.77 68.20 -16.43 40.79 33.09 10.78 32.89 0.00 100 155 PEAK 2 5650.84 50.53 68.82 -18.29 39.53 33.11 10.78 32.89 0.00 100 155 PEAK 3 5719.51 62.72 110.66 -47.94 51.24 33.58 10.81 32.91 0.00 100 155 PEAK 4 5720.28 62.41 111.44 -49.03 50.93 33.58 10.81 32.91 0.00 100 155 PEAK	 Site : 03CH11-HY Condition: PEAK(UNII) 3m 9120D_01620_230817 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 92.08 ------ ------ 80.44 33.73 10.83 32.92 0.00 100 155 PEAK
Avg	Blank	 Site : 03CH11-HY Condition: AVG_54 3m 9120D_01620_230817 VERTICAL : RBW:1000.000kHz VBW:1.600kHz 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 85.59 ------ ------ 73.97 33.71 10.83 32.92 0.00 100 155 AVERAGE

Mode	36	
	Band Edge - R	
	U-NII-3_5.725-5.85_802.11n HT40_CH151_5755MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak		Blank

Site : 03CH11-HY
Condition: PEAK_BE(B4)_16-24 3m 9120D_01620_230817 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	5854.84	49.67	111.17	-61.50	37.73	34.02	10.87	32.95	0.00	100	155	PEAK
2	5872.39	52.83	105.93	-53.10	40.82	34.09	10.88	32.96	0.00	100	155	PEAK
3	5924.85	51.02	68.31	-17.29	38.86	34.25	10.89	32.98	0.00	100	155	PEAK
4	5926.21	52.51	68.20	-15.69	40.35	34.25	10.89	32.98	0.00	100	155	PEAK