



FCC RADIO TEST REPORT

FCC ID : A4RG8AK3
Equipment : Wireless Device
Model Name : G8AK3
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Feb. 18, 2025 and testing was performed from Feb. 25, 2025 to Mar. 31, 2025. 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
FR511002E	01	Initial issue of report	Apr. 28, 2025

Summary of Test Result

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

Conformity Assessment Condition:

- ECR inquiry for data referencing from A4RG1KAW has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
- A4RG8AK3 is different from FCC ID: A4RG1KAW (Reference model), in the following:
 - The only difference between A4RG1KAW and A4RG8AK3 are the LTE and NTN function, which is controlled by hardware.
- All the test results are referenced from A4RG1KAW (Sporton Test Report FR4D1914E), and spot check results to justify data referencing is presented in the Appendix E.
- 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 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: Yun Huang

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, BLE, BLE ASK, BLE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS.
Antenna Type WLAN: PIFA Antenna

EUT Information List	
S/N	Performed Test Item
51161WRBNL31Z1	RF Conducted Measurement
51161WRBNL31R4	Radiated Spurious Emission
51161WRBNL31TB	Conducted Emission

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	-1.5
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	0.1
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	0.1
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	0.7

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

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, 03CH23-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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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 find Y plane with Adapter as worst plane.
- 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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

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

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

Note:

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

2.2 Test Mode

This device support 26/52/106/242/484/996.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The power for 802.11ac VHT20/ VHT40 mode is smaller than 802.11n mode, so all other conducted and radiated test is covered by 802.11n mode.

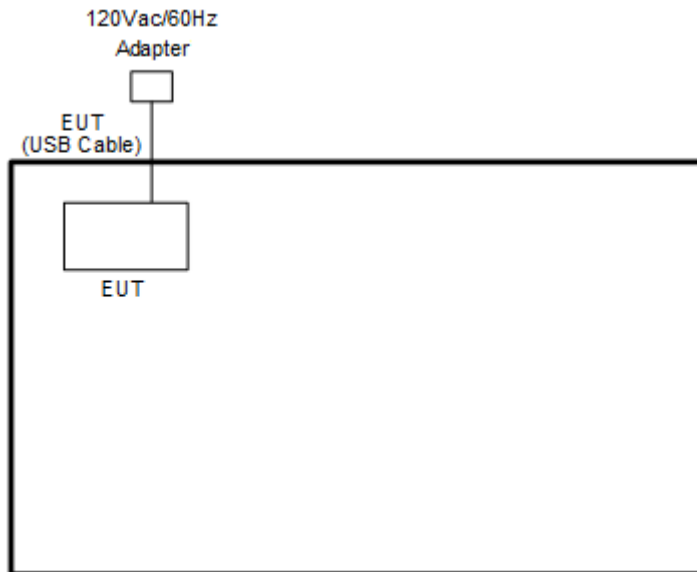
The final test modes include the worst data rates for each modulation shown in the table below.

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
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

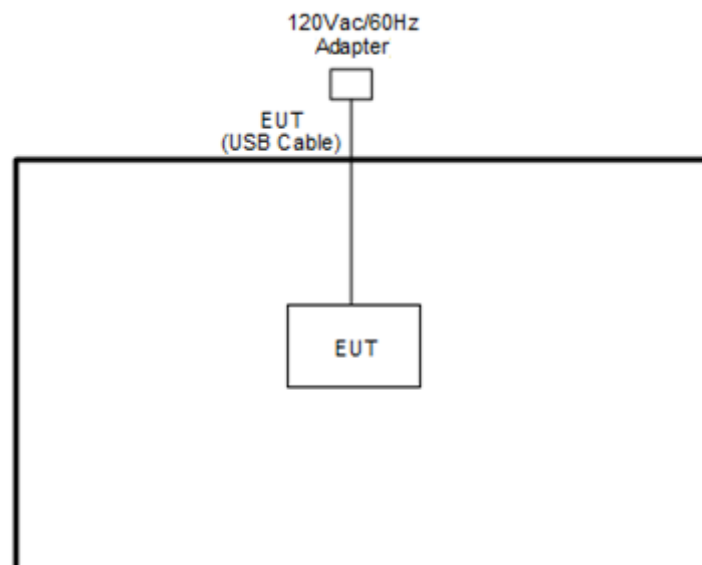
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) 11a CH36 Tx + USB Cable (Charging from AC Adapter)
Remark: - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. - The detailed Radiated test modes are shown in Appendix C.	

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “adb version 1.0.41” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$



3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

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

The 6 dB bandwidth shall be at least 500kHz for 5725-5850MHz.

There is no restriction limits for 26dB and 99% Occupied bandwidth.

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

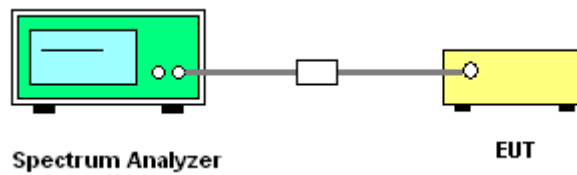
3.1.2 Measuring Instruments

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
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.
9. For 6dB Bandwidth Measurement
 - (1) The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
 - (2) Section C) Emission bandwidth for the band 5.725-5.85 GHz
 - (3) Set RBW = 100 kHz.
 - (4) Set the VBW $\geq 3 \times RBW$.
 - (5) Detector = Peak.
 - (6) Trace mode = max hold
 - (7) Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
 - (8) 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

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

For the band 5.725–5.85 GHz bands:

■ The maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

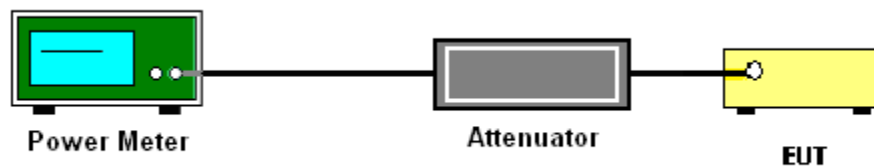
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725–5.85 GHz bands:

The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

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

3.3.2 Measuring Instruments

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



3.3.3 Test Procedures

For the band 5.15-5.725 GHz

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

Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 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.

For the band 5.725–5.85 GHz

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

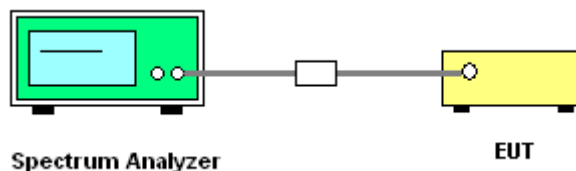
Section F) Maximum power spectral density.

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 $10 \log(500 \text{ kHz/RBW})$ to the measured result, whereas RBW ($< 500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - 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 $10 \log(1/0.25) = 6 \text{ dB}$ 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 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

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

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

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.

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



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 $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

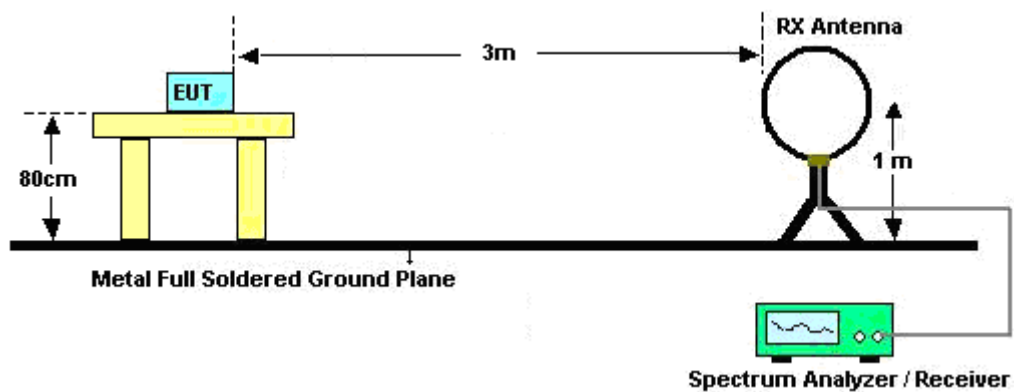
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW $\geq$ 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.

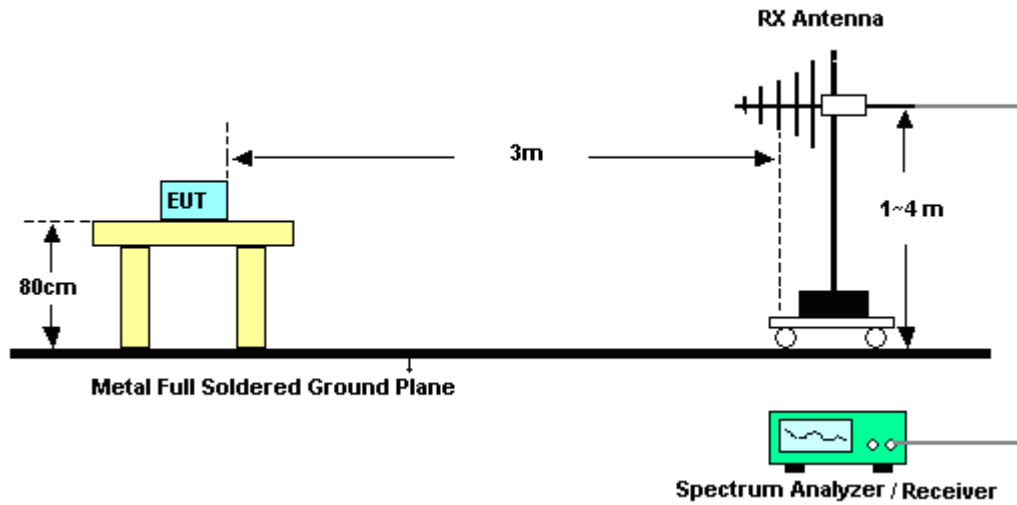
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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

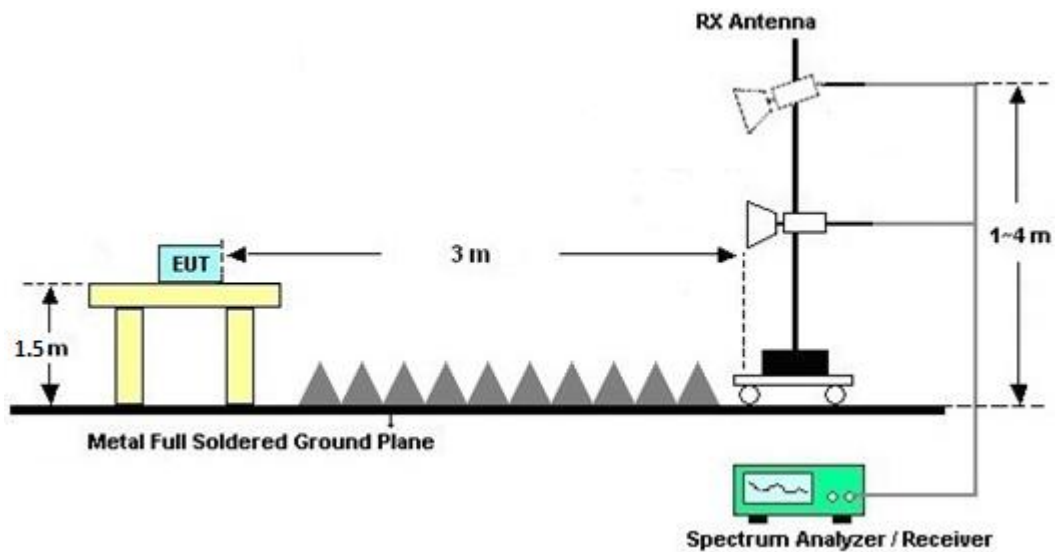
For radiated emissions below 30MHz



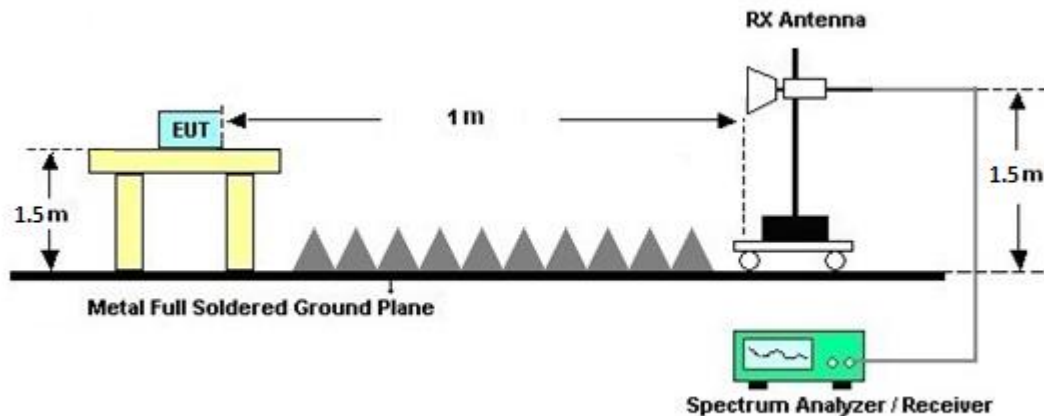
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

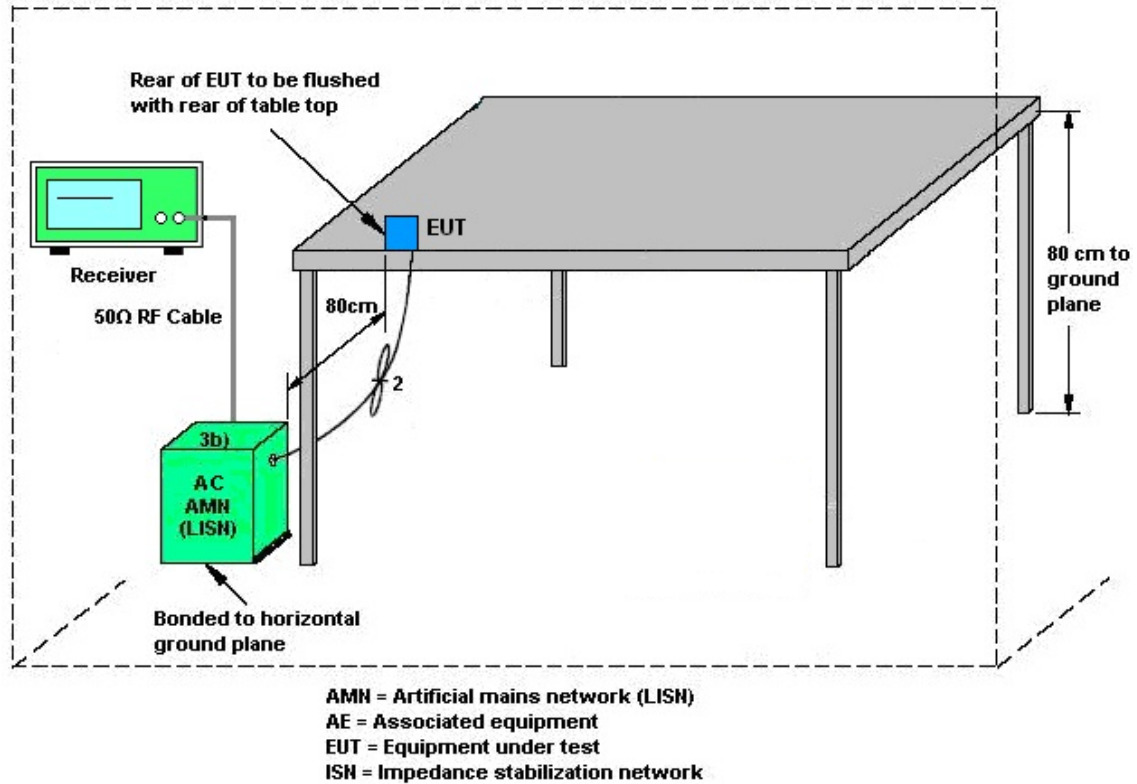
3.5.2 Measuring Instruments

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

- b) Unique (non-standard) antenna connector.
- (3) Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug 29, 2024	Mar. 14, 2025~ Mar. 28, 2025	Aug 28, 2025	Radiation (03CH23-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 27, 2024	Mar. 14, 2025~ Mar. 28, 2025	Nov. 26, 2025	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 14, 2024	Mar. 14, 2025~ Mar. 28, 2025	Jul. 13, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Mar. 14, 2025~ Mar. 28, 2025	Sep. 26, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18E N	1GHz~18GHz	Jun. 20, 2024	Mar. 14, 2025~ Mar. 28, 2025	Jun. 19, 2025	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Mar. 14, 2025~ Mar. 28, 2025	Jun. 23, 2025	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Mar. 14, 2025~ Mar. 28, 2025	Sep. 01, 2025	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Aug. 21, 2024	Mar. 14, 2025~ Mar. 28, 2025	Aug. 20, 2025	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303B	TP211542	N/A	Oct. 21, 2024	Mar. 14, 2025~ Mar. 28, 2025	Oct. 20, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 14, 2025~ Mar. 28, 2025	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 14, 2025~ Mar. 28, 2025	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 14, 2025~ Mar. 28, 2025	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019 122	RK-002348	N/A	N/A	Mar. 14, 2025~ Mar. 28, 2025	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Mar. 14, 2025~ Mar. 28, 2025	Mar. 04, 2026	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 26, 2024	Mar. 14, 2025~ Mar. 28, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/23111 9/231122	N/A	Nov. 26, 2024	Mar. 14, 2025~ Mar. 28, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Feb. 25, 2025~ Mar. 31, 2025	Oct. 30, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Feb. 25, 2025~ Mar. 31, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Feb. 25, 2025~ Mar. 31, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Feb. 25, 2025~ Mar. 31, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Feb. 25, 2025~ Mar. 31, 2025	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 28, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 28, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 28, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 28, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 28, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 28, 2025	Sep. 22, 2025	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2025/02/25~2025/03/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	36	5180	20.52	-	39.39	-	-	-	23.01	-	-
11a	6Mbps	1	44	5220	21.11	-	40.57	-	-	-	23.01	-	
11a	6Mbps	1	48	5240	21.18	-	40.64	-	-	-	23.01	-	
HT20	MCS0	1	36	5180	22.01	-	44.45	-	-	-	23.01	-	
HT20	MCS0	1	44	5220	22.37	-	45.72	-	-	-	23.01	-	
HT20	MCS0	1	48	5240	22.80	-	46.78	-	-	-	23.01	-	
HT40	MCS0	1	38	5190	38.56	-	89.95	-	-	-	23.01	-	
HT40	MCS0	1	46	5230	38.64	-	89.86	-	-	-	23.01	-	
VHT80	MCS0	1	42	5210	76.15	-	145.86	-	-	-	23.01	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)		FCC Conducted Power Limit	DG (dBi)		Pass/Fail
					Ant 0	SUM				
11a	6Mbps	1	36	5180	18.20	-	24.00	-1.50	-	Pass
11a	6Mbps	1	44	5220	18.20		24.00	-1.50		Pass
11a	6Mbps	1	48	5240	18.20		24.00	-1.50		Pass
HT20	MCS0	1	36	5180	18.40		24.00	-1.50		Pass
HT20	MCS0	1	44	5220	18.30		24.00	-1.50		Pass
HT20	MCS0	1	48	5240	18.30		24.00	-1.50		Pass
HT40	MCS0	1	38	5190	16.70		24.00	-1.50		Pass
HT40	MCS0	1	46	5230	17.00		24.00	-1.50		Pass
VHT20	MCS0	1	36	5180	18.30		24.00	-1.50		Pass
VHT20	MCS0	1	44	5220	18.20		24.00	-1.50		Pass
VHT20	MCS0	1	48	5240	18.20		24.00	-1.50		Pass
VHT40	MCS0	1	38	5190	16.60		24.00	-1.50		Pass
VHT40	MCS0	1	46	5230	16.90		24.00	-1.50		Pass
VHT80	MCS0	1	42	5210	16.40		24.00	-1.50		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	36	5180	0.43	-	6.32	-	-	11.00	-	-1.50	-	Pass
11a	6Mbps	1	44	5220	0.43	-	6.58	-		11.00	-	-1.50	-	Pass
11a	6Mbps	1	48	5240	0.43	-	6.28	-		11.00	-	-1.50	-	Pass
HT20	MCS0	1	36	5180	0.46	-	6.24	-		11.00	-	-1.50	-	Pass
HT20	MCS0	1	44	5220	0.46	-	6.16	-		11.00	-	-1.50	-	Pass
HT20	MCS0	1	48	5240	0.46	-	6.03	-		11.00	-	-1.50	-	Pass
HT40	MCS0	1	38	5190	0.48	-	1.52	-		11.00	-	-1.50	-	Pass
HT40	MCS0	1	46	5230	0.48	-	1.83	-		11.00	-	-1.50	-	Pass
VHT80	MCS0	1	42	5210	0.52	-	-1.47	-		11.00	-	-1.50	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	52	5260	20.91	-	39.04	-	23.98	-	30.00	-	23.98	-	-
11a	6Mbps	1	60	5300	19.43	-	38.31	-	23.89	-	29.89	-	23.98	-	
11a	6Mbps	1	64	5320	18.75	-	37.34	-	23.73	-	29.73	-	23.98	-	
HT20	MCS0	1	52	5260	23.22	-	42.86	-	23.98	-	30.00	-	23.98	-	
HT20	MCS0	1	60	5300	20.32	-	41.94	-	23.98	-	30.00	-	23.98	-	
HT20	MCS0	1	64	5320	20.49	-	43.18	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	54	5270	39.42	-	84.10	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	38.52	-	86.11	-	23.98	-	30.00	-	23.98	-	
VHT80	MCS0	1	58	5290	76.22	-	167.62	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	SUM	Ant 0	Ant 0		
11a	6Mbps	1	52	5260	18.40	-	23.98	0.10	30	Pass
11a	6Mbps	1	60	5300	18.30		23.98	0.10	30	Pass
11a	6Mbps	1	64	5320	16.40		23.98	0.10	30	Pass
HT20	MCS0	1	52	5260	18.40		23.98	0.10	30	Pass
HT20	MCS0	1	60	5300	18.20		23.98	0.10	30	Pass
HT20	MCS0	1	64	5320	17.20		23.98	0.10	30	Pass
HT40	MCS0	1	54	5270	16.90		23.98	0.10	30	Pass
HT40	MCS0	1	62	5310	14.60		23.98	0.10	30	Pass
VHT20	MCS0	1	52	5260	18.30		23.98	0.10	30	Pass
VHT20	MCS0	1	60	5300	18.10		23.98	0.10	30	Pass
VHT20	MCS0	1	64	5320	17.10		23.98	0.10	30	Pass
VHT40	MCS0	1	54	5270	16.80		23.98	0.10	30	Pass
VHT40	MCS0	1	62	5310	14.50		23.98	0.10	30	Pass
VHT80	MCS0	1	58	5290	14.50		23.98	0.10	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	52	5260	0.43	-	6.53	-	-	11.00	-	0.10	-	Pass
11a	6Mbps	1	60	5300	0.43	-	6.34	-		11.00	-	0.10	-	Pass
11a	6Mbps	1	64	5320	0.43	-	4.42	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	52	5260	0.46	-	6.12	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	60	5300	0.46	-	5.82	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	64	5320	0.46	-	4.96	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	54	5270	0.48	-	2.19	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	62	5310	0.48	-	-0.55	-		11.00	-	0.10	-	Pass
VHT80	MCS0	1	58	5290	0.52	-	-3.48	-		11.00	-	0.10	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	1	100	5500	19.46	-	38.52	-	23.89	-	29.89	-	23.98	-	----	----
11a	6Mbps	1	116	5580	18.99	-	35.54	-	23.78	-	29.78	-	23.98	-	----	----
11a	6Mbps	1	140	5700	18.98	-	36.95	-	23.78	-	29.78	-	23.98	-	----	----
HT20	MCS0	1	100	5500	21.23	-	45.74	-	23.98	-	30.00	-	23.98	-	----	----
HT20	MCS0	1	116	5580	20.67	-	40.93	-	23.98	-	30.00	-	23.98	-	----	----
HT20	MCS0	1	140	5700	20.59	-	42.86	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	102	5510	38.81	-	87.76	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	38.47	-	92.02	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	38.14	-	83.42	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	106	5530	76.22	-	146.69	-	23.98	-	30.00	-	23.98	-	----	----
VHT80	MCS0	1	122	5610	76.18	-	142.62	-	23.98	-	30.00	-	23.98	-	----	----

U-NII-2C straddle channel single antenna																
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	1	144	5720	14.46	-	21.85	-	23.86	-	29.86	-	23.98	-	3.17	-
HT20	MCS0	1	144	5720	15.02	-	25.28	-	23.98	-	30.00	-	23.98	-	3.8	-
HT40	MCS0	1	142	5710	34.17	-	58.84	-	23.98	-	30.00	-	23.98	-	3.18	-
VHT80	MCS0	1	138	5690	73.04	-	105.30	-	23.98	-	30.00	-	23.98	-	3.176	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	SUM	Ant 0	Ant 0		
11a	6Mbps	1	100	5500	18.40	-	23.98	0.10	30	Pass
11a	6Mbps	1	116	5580	18.30		23.98	0.10	30	Pass
11a	6Mbps	1	140	5700	16.20		23.98	0.10	30	Pass
HT20	MCS0	1	100	5500	18.00		23.98	0.10	30	Pass
HT20	MCS0	1	116	5580	18.30		23.98	0.10	30	Pass
HT20	MCS0	1	140	5700	15.90		23.98	0.10	30	Pass
HT40	MCS0	1	102	5510	16.10		23.98	0.10	30	Pass
HT40	MCS0	1	110	5550	16.90		23.98	0.10	30	Pass
HT40	MCS0	1	134	5670	16.90		23.98	0.10	30	Pass
VHT20	MCS0	1	100	5500	17.90		23.98	0.10	30	Pass
VHT20	MCS0	1	116	5580	18.20		23.98	0.10	30	Pass
VHT20	MCS0	1	140	5700	15.80		23.98	0.10	30	Pass
VHT40	MCS0	1	102	5510	16.00		23.98	0.10	30	Pass
VHT40	MCS0	1	110	5550	16.80		23.98	0.10	30	Pass
VHT40	MCS0	1	134	5670	16.80		23.98	0.10	30	Pass
VHT80	MCS0	1	106	5530	15.30		23.98	0.10	30	Pass
VHT80	MCS0	1	122	5610	16.40		23.98	0.10	30	Pass

FCC U-NII-2C straddle channel single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	SUM	Ant 0	Ant 0		
11a	6Mbps	1	144	5720	18.20	-	23.98	0.10	30	Pass
HT20	MCS0	1	144	5720	18.30		23.98	0.10	30	Pass
HT40	MCS0	1	142	5710	17.10		23.98	0.10	30	Pass
VHT20	MCS0	1	144	5720	18.20		23.98	0.10	30	Pass
VHT40	MCS0	1	142	5710	17.00		23.98	0.10	30	Pass
VHT80	MCS0	1	138	5690	16.40		23.98	0.10	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	100	5500	0.43	-	6.51	-	-	11.00	-	0.10	-	Pass
11a	6Mbps	1	116	5580	0.43	-	6.15	-		11.00	-	0.10	-	Pass
11a	6Mbps	1	140	5700	0.43	-	4.19	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	100	5500	0.46	-	5.70	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	116	5580	0.46	-	6.15	-		11.00	-	0.10	-	Pass
HT20	MCS0	1	140	5700	0.46	-	3.47	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	102	5510	0.48	-	0.91	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	110	5550	0.48	-	2.11	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	134	5670	0.48	-	2.10	-		11.00	-	0.10	-	Pass
VHT80	MCS0	1	106	5530	0.52	-	-2.81	-		11.00	-	0.10	-	Pass
VHT80	MCS0	1	122	5610	0.52	-	-1.23	-		11.00	-	0.10	-	Pass

U-NII-2C straddle channel single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	144	5720	0.43	-	5.90	-	-	11.00	-	0.10	-	Pass
HT20	MCS0	1	144	5720	0.46	-	5.83	-		11.00	-	0.10	-	Pass
HT40	MCS0	1	142	5710	0.48	-	1.89	-		11.00	-	0.10	-	Pass
VHT80	MCS0	1	138	5690	0.52	-	-1.20	-		11.00	-	0.10	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	36	5180	Full	20.19	-	48.09	-	-	-	23.01	-	-	-
HE20	MCS0	1	44	5220	Full	20.19	-	44.83	-	-	-	23.01	-		
HE20	MCS0	1	48	5240	Full	20.80	-	47.26	-	-	-	23.01	-		
HE40	MCS0	1	38	5190	Full	38.57	-	77.33	-	-	-	23.01	-		
HE40	MCS0	1	46	5230	Full	38.46	-	81.66	-	-	-	23.01	-		
HE80	MCS0	1	42	5210	Full	77.30	-	108.44	-	-	-	23.01	-		

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	36	5180	Full	18.20	-	-	24.00	-	-1.50	-	-	Pass
HE20	MCS0	1	36	5180	26/0	9.00	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	36	5180	52/37	11.90	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	36	5180	106/53	14.90	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	44	5220	Full	18.20	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	44	5220	26/4	9.60	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	44	5220	52/38	11.90	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	44	5220	106/53	14.80	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	48	5240	Full	18.20	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	48	5240	26/8	8.30	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	48	5240	52/40	11.70	-		24.00	-	-1.50	-		Pass
HE20	MCS0	1	48	5240	106/54	15.00	-		24.00	-	-1.50	-		Pass
HE40	MCS0	1	38	5190	Full	16.70	-		24.00	-	-1.50	-		Pass
HE40	MCS0	1	46	5230	Full	17.00	-		24.00	-	-1.50	-		Pass
HE80	MCS0	1	42	5210	Full	16.30	-		24.00	-	-1.50	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	36	5180	Full	0.58	-	5.85	-	-	11.00	-	-1.50	-	Pass
HE20	MCS0	1	36	5180	26/0	0.75	-	5.51	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	36	5180	52/37	0.77	-	5.71	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	36	5180	106/53	0.83	-	5.65	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	44	5220	Full	0.58	-	5.74	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	44	5220	26/4	0.75	-	5.48	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	44	5220	52/38	0.77	-	5.63	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	44	5220	106/53	0.83	-	5.59	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	48	5240	Full	0.58	-	5.88	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	48	5240	26/8	0.75	-	5.63	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	48	5240	52/40	0.77	-	5.85	-		11.00	-	-1.50	-	Pass
HE20	MCS0	1	48	5240	106/54	0.83	-	5.85	-		11.00	-	-1.50	-	Pass
HE40	MCS0	1	38	5190	Full	0.32	-	1.39	-		11.00	-	-1.50	-	Pass
HE40	MCS0	1	46	5230	Full	0.32	-	1.58	-		11.00	-	-1.50	-	Pass
HE80	MCS0	1	42	5210	Full	0.62	-	-1.34	-		11.00	-	-1.50	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	52	5260	Full	21.47	-	44.05	-	23.98	-	30.00	-	23.98	-	
HE20	MCS0	1	60	5300	Full	19.83	-	45.78	-	23.97	-	29.97	-	23.98	-	
HE20	MCS0	1	64	5320	Full	19.83	-	42.78	-	23.97	-	29.97	-	23.98	-	
HE40	MCS0	1	54	5270	Full	38.54	-	83.90	-	23.98	-	30.00	-	23.98	-	
HE40	MCS0	1	62	5310	Full	38.39	-	79.33	-	23.98	-	30.00	-	23.98	-	
HE80	MCS0	1	58	5290	Full	77.32	-	109.18	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	52	5260	Full	18.40	-	-	23.98	-	0.10	-	30	Pass
HE20	MCS0	1	52	5260	26/0	9.00	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	52	5260	52/37	11.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	52	5260	106/53	15.50	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	60	5300	Full	18.30	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	60	5300	26/4	9.60	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	60	5300	52/38	11.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	60	5300	106/53	14.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	64	5320	Full	16.60	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	64	5320	26/8	7.10	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	64	5320	52/40	9.70	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	64	5320	106/54	12.60	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	54	5270	Full	17.00	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	62	5310	Full	14.50	-		23.98	-	0.10	-	30	Pass
HE80	MCS0	1	58	5290	Full	14.60	-		23.98	-	0.10	-	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	52	5260	Full	0.58	-	5.92	-	-	11.00	-	0.10	-	Pass
HE20	MCS0	1	52	5260	26/0	0.75	-	5.72	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	52	5260	52/37	0.77	-	5.63	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	52	5260	106/53	0.83	-	5.81	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	60	5300	Full	0.58	-	5.63	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	60	5300	26/4	0.75	-	5.56	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	60	5300	52/38	0.77	-	5.60	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	60	5300	106/53	0.83	-	5.53	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	64	5320	Full	0.58	-	4.01	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	64	5320	26/8	0.75	-	3.99	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	64	5320	52/40	0.77	-	3.78	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	64	5320	106/54	0.83	-	3.63	-		11.00	-	0.10	-	Pass
HE40	MCS0	1	54	5270	Full	0.32	-	1.89	-		11.00	-	0.10	-	Pass
HE40	MCS0	1	62	5310	Full	0.32	-	-0.84	-		11.00	-	0.10	-	Pass
HE80	MCS0	1	58	5290	Full	0.62	-	-3.67	-		11.00	-	0.10	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
HE20	MCS0	1	100	5500	Full	19.94	-	44.80	-	23.98	-	30.00	-	23.98	-	----	----
HE20	MCS0	1	116	5580	Full	20.02	-	46.18	-	23.98	-	30.00	-	23.98	-	----	----
HE20	MCS0	1	140	5700	Full	19.83	-	43.39	-	23.97	-	29.97	-	23.98	-	----	----
HE40	MCS0	1	102	5510	Full	38.33	-	76.00	-	23.98	-	30.00	-	23.98	-	----	----
HE40	MCS0	1	110	5550	Full	38.29	-	73.89	-	23.98	-	30.00	-	23.98	-	----	----
HE40	MCS0	1	134	5670	Full	38.30	-	80.90	-	23.98	-	30.00	-	23.98	-	----	----
HE80	MCS0	1	106	5530	Full	77.29	-	117.38	-	23.98	-	30.00	-	23.98	-	----	----
HE80	MCS0	1	122	5610	Full	77.29	-	112.99	-	23.98	-	30.00	-	23.98	-	----	----

U-NII-2C straddle channel single antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
HE20	MCS0	1	144	5720	Full	14.85	-	28.95	-	23.97	-	29.97	-	23.98	-	4.485	-
HE40	MCS0	1	142	5710	Full	34.16	-	48.30	-	23.98	-	30.00	-	23.98	-	3.828	-
HE80	MCS0	1	138	5690	Full	73.62	-	95.90	-	23.98	-	30.00	-	23.98	-	3.896	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	100	5500	Full	17.90	-	-	23.98	-	0.10	-	30	Pass
HE20	MCS0	1	100	5500	26/0	7.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	100	5500	52/37	11.10	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	100	5500	106/53	14.10	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	116	5580	Full	18.40	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	116	5580	26/4	9.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	116	5580	52/38	12.20	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	116	5580	106/53	14.90	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	136	5680	Full	18.20	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	136	5680	26/8	8.80	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	136	5680	52/40	11.50	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	136	5680	106/54	14.70	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	140	5700	Full	15.20	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	140	5700	26/8	5.20	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	140	5700	52/40	8.20	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	140	5700	106/54	11.70	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	102	5510	Full	15.80	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	110	5550	Full	17.00	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	134	5670	Full	17.00	-		23.98	-	0.10	-	30	Pass
HE80	MCS0	1	106	5530	Full	15.40	-		23.98	-	0.10	-	30	Pass
HE80	MCS0	1	122	5610	Full	16.50	-		23.98	-	0.10	-	30	Pass

FCC U-NII-2C straddle channel single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	144	5720	Full	18.40	-	-	23.98	-	0.10	-	30	Pass
HE20	MCS0	1	144	5720	26/8	8.70	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	144	5720	52/40	12.10	-		23.98	-	0.10	-	30	Pass
HE20	MCS0	1	144	5720	106/54	14.80	-		23.98	-	0.10	-	30	Pass
HE40	MCS0	1	142	5710	Full	17.20	-		23.98	-	0.10	-	30	Pass
HE80	MCS0	1	138	5690	Full	16.50	-		23.98	-	0.10	-	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna															
Mod.	Data Rate	N _{rx}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	100	5500	Full	0.58	-	5.27	-	-	11.00	-	0.10	-	Pass
HE20	MCS0	1	100	5500	26/0	0.75	-	5.25	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	100	5500	52/37	0.77	-	5.08	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	100	5500	106/53	0.83	-	5.00	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	116	5580	Full	0.58	-	5.91	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	116	5580	26/4	0.75	-	5.72	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	116	5580	52/38	0.77	-	5.87	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	116	5580	106/53	0.83	-	5.85	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	136	5680	Full	0.58	-	5.70	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	136	5680	26/8	0.75	-	5.62	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	136	5680	52/40	0.77	-	5.67	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	136	5680	106/54	0.83	-	5.66	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	140	5700	Full	0.58	-	2.46	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	140	5700	26/8	0.75	-	2.38	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	140	5700	52/40	0.77	-	2.30	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	140	5700	106/54	0.83	-	2.37	-		11.00	-	0.10	-	Pass
HE40	MCS0	1	102	5510	Full	0.32	-	0.27	-	-	11.00	-	0.10	-	Pass
HE40	MCS0	1	110	5550	Full	0.32	-	1.74	-		11.00	-	0.10	-	Pass
HE40	MCS0	1	134	5670	Full	0.32	-	1.71	-		11.00	-	0.10	-	Pass
HE80	MCS0	1	106	5530	Full	0.62	-	-2.75	-		11.00	-	0.10	-	Pass
HE80	MCS0	1	122	5610	Full	0.62	-	-1.28	-		11.00	-	0.10	-	Pass

U-NII-2C straddle channel single antenna															
Mod.	Data Rate	N _{rx}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	144	5720	Full	0.58	-	5.70	-	-	11.00	-	0.10	-	Pass
HE20	MCS0	1	144	5720	26/8	0.75	-	5.60	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	144	5720	52/40	0.77	-	5.62	-		11.00	-	0.10	-	Pass
HE20	MCS0	1	144	5720	106/54	0.83	-	5.69	-		11.00	-	0.10	-	Pass
HE40	MCS0	1	142	5710	Full	0.32	-	1.58	-		11.00	-	0.10	-	Pass
HE80	MCS0	1	138	5690	Full	0.62	-	-1.19	-		11.00	-	0.10	-	Pass

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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	149	5745	19.18	-	38.12	-	16.35	-	0.5	Pass
11a	6Mbps	1	157	5785	20.35	-	38.58	-	16.35	-	0.5	Pass
11a	6Mbps	1	165	5825	20.29	-	38.56	-	16.35	-	0.5	Pass
HT20	MCS0	1	149	5745	22.06	-	44.42	-	17.58	-	0.5	Pass
HT20	MCS0	1	157	5785	22.09	-	43.02	-	17.60	-	0.5	Pass
HT20	MCS0	1	165	5825	20.32	-	43.86	-	17.58	-	0.5	Pass
HT40	MCS0	1	151	5755	39.55	-	86.32	-	36.34	-	0.5	Pass
HT40	MCS0	1	159	5795	38.88	-	88.67	-	36.34	-	0.5	Pass
VHT80	MCS0	1	155	5775	76.32	-	140.00	-	76.06	-	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 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	149	5745	18.40	-		30.00	-	0.70	-	Pass
11a	6Mbps	1	157	5785	18.40	-		30.00	-	0.70	-	Pass
11a	6Mbps	1	165	5825	18.40	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	149	5745	18.30	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	157	5785	18.20	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	165	5825	18.30	-		30.00	-	0.70	-	Pass
HT40	MCS0	1	151	5755	17.00	-		30.00	-	0.70	-	Pass
HT40	MCS0	1	159	5795	17.00	-		30.00	-	0.70	-	Pass
VHT20	MCS0	1	149	5745	18.20	-		30.00	-	0.70	-	Pass
VHT20	MCS0	1	157	5785	18.10	-		30.00	-	0.70	-	Pass
VHT20	MCS0	1	165	5825	18.20	-		30.00	-	0.70	-	Pass
VHT40	MCS0	1	151	5755	16.90	-		30.00	-	0.70	-	Pass
VHT40	MCS0	1	159	5795	16.90	-		30.00	-	0.70	-	Pass
VHT80	MCS0	1	155	5775	16.40	-		30.00	-	0.70	-	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	149	5745	0.43	Ant 1	3.53	-		30.00	-	0.70	-	Pass
11a	6Mbps	1	157	5785	0.43	Ant 1	3.61	-		30.00	-	0.70	-	Pass
11a	6Mbps	1	165	5825	0.43	Ant 1	3.53	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	149	5745	0.46	Ant 1	3.51	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	157	5785	0.46	Ant 1	3.27	-		30.00	-	0.70	-	Pass
HT20	MCS0	1	165	5825	0.46	Ant 1	3.33	-		30.00	-	0.70	-	Pass
HT40	MCS0	1	151	5755	0.25	Ant 1	-0.79	-		30.00	-	0.70	-	Pass
HT40	MCS0	1	159	5795	0.25	Ant 1	-0.86	-		30.00	-	0.70	-	Pass
VHT80	MCS0	1	155	5775	0.52	Ant 1	-4.17	-		30.00	-	0.70	-	Pass

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

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	1	149	5745	Full	19.89	-	45.34	-	18.99	-	0.5	Pass
HE20	MCS0	1	157	5785	Full	19.70	-	41.96	-	19.02	-	0.5	Pass
HE20	MCS0	1	165	5825	Full	19.68	-	41.56	-	18.99	-	0.5	Pass
HE40	MCS0	1	151	5755	Full	38.33	-	66.34	-	37.63	-	0.5	Pass
HE40	MCS0	1	159	5795	Full	38.23	-	67.26	-	37.72	-	0.5	Pass
HE80	MCS0	1	155	5775	Full	77.32	-	122.59	-	77.14	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	149	5745	Full	18.40	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	26/0	9.20	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	52/37	11.90	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	106/53	15.30	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	Full	18.30	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	26/4	8.20	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	52/38	11.50	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	106/53	14.80	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	Full	18.40	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	26/8	8.30	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	52/40	11.30	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	106/54	14.60	-		30.00	-	0.70	-	Pass
HE40	MCS0	1	151	5755	Full	17.10	-		30.00	-	0.70	-	Pass
HE40	MCS0	1	159	5795	Full	17.10	-		30.00	-	0.70	-	Pass
HE80	MCS0	1	155	5775	Full	16.50	-		30.00	-	0.70	-	Pass

TEST RESULTS DATA
Power Spectral Density

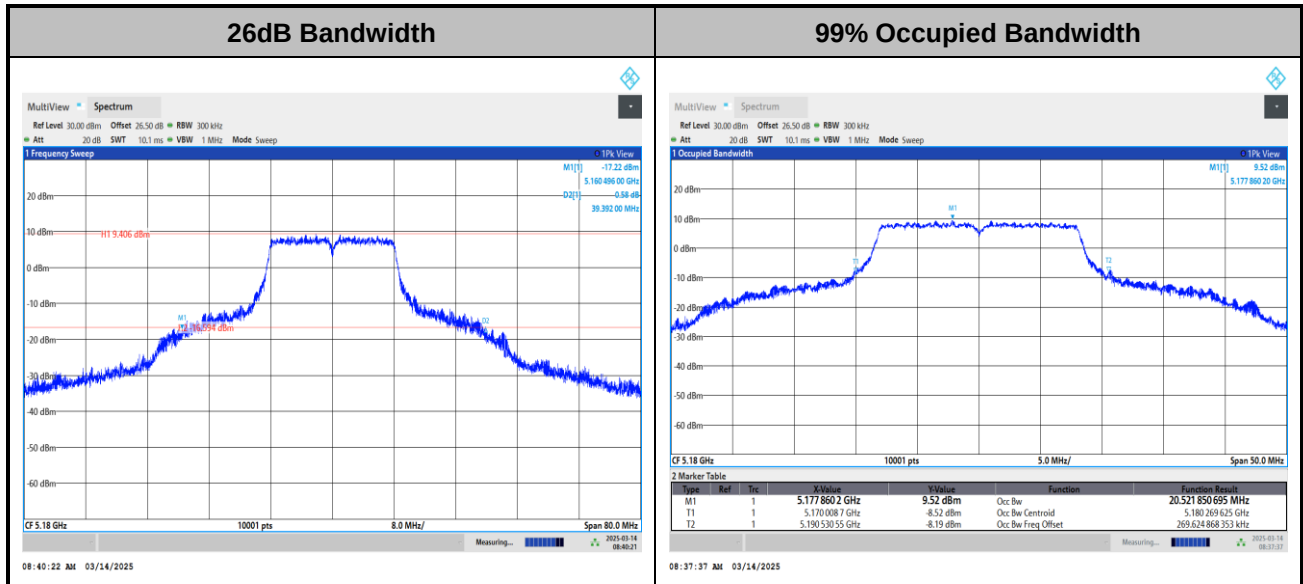
U-NII-3 single antenna															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	1	149	5745	Full	0.58	-	3.19	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	26/0	0.75	-	3.10	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	52/37	0.77	-	3.08	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	149	5745	106/53	0.83	-	3.09	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	Full	0.58	-	2.77	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	26/4	0.75	-	2.54	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	52/38	0.77	-	2.58	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	157	5785	106/53	0.83	-	2.64	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	Full	0.58	-	2.70	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	26/8	0.75	-	2.65	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	52/40	0.77	-	2.57	-		30.00	-	0.70	-	Pass
HE20	MCS0	1	165	5825	106/54	0.83	-	2.53	-		30.00	-	0.70	-	Pass
HE40	MCS0	1	151	5755	Full	0.32	-	-1.00	-		30.00	-	0.70	-	Pass
HE40	MCS0	1	159	5795	Full	0.32	-	-0.88	-		30.00	-	0.70	-	Pass
HE80	MCS0	1	155	5775	Full	0.62	-	-4.13	-		30.00	-	0.70	-	Pass



<For Band 1-3>

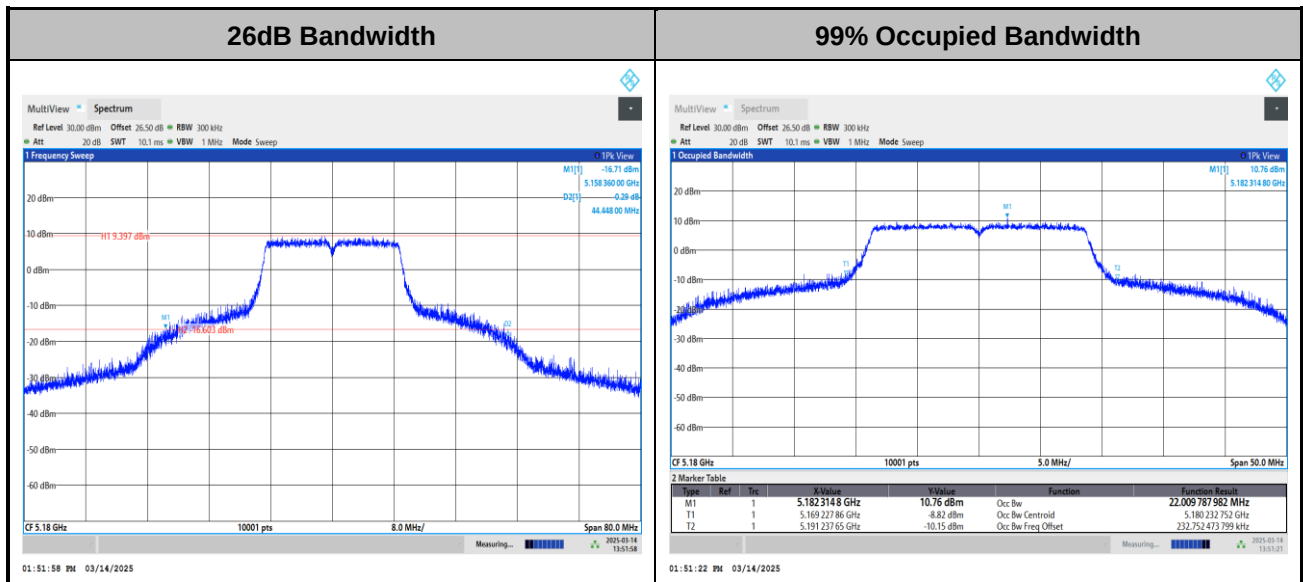
Test Result of 26dB & 99% Occupied Bandwidth

<802.11a>



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

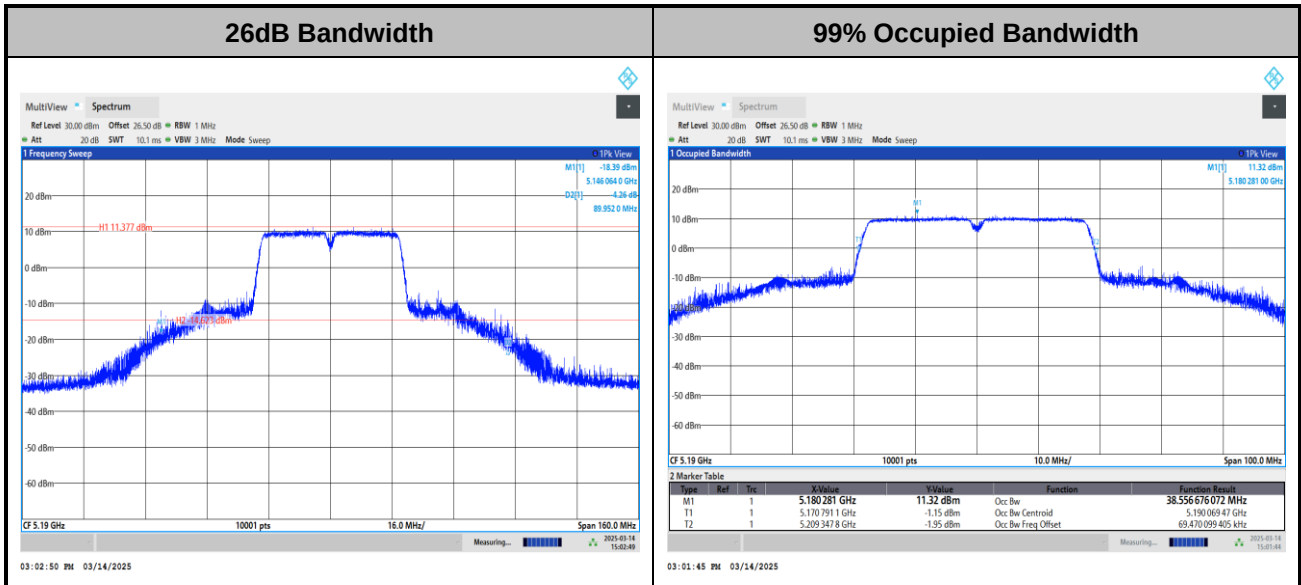
<802.11n HT20>



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

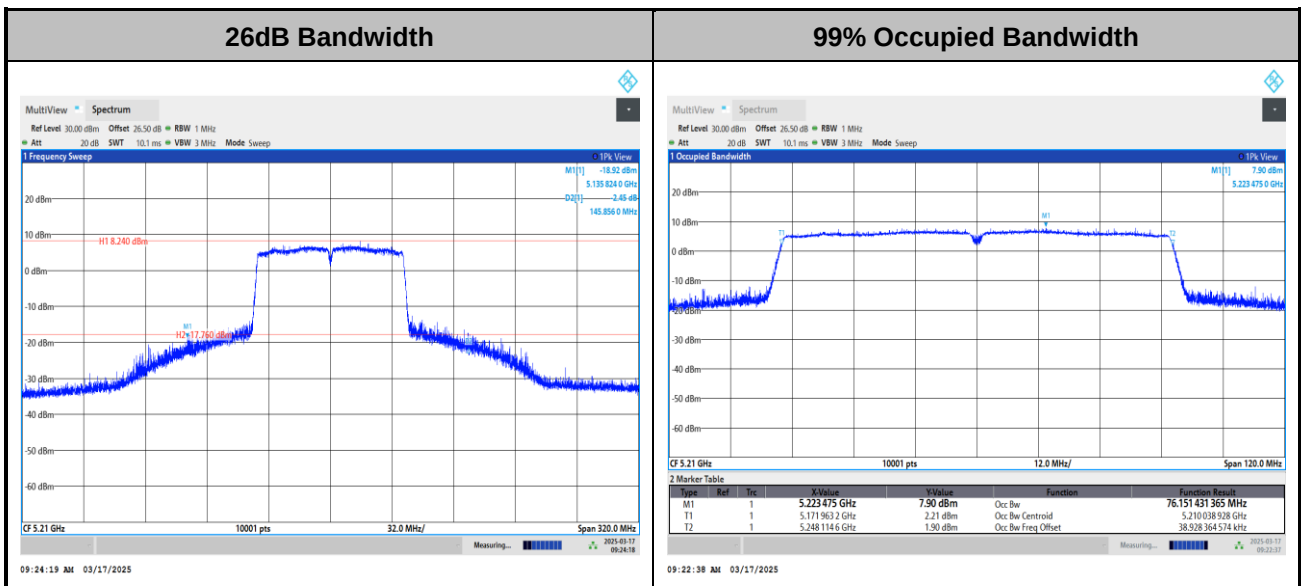


<802.11n HT40>



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

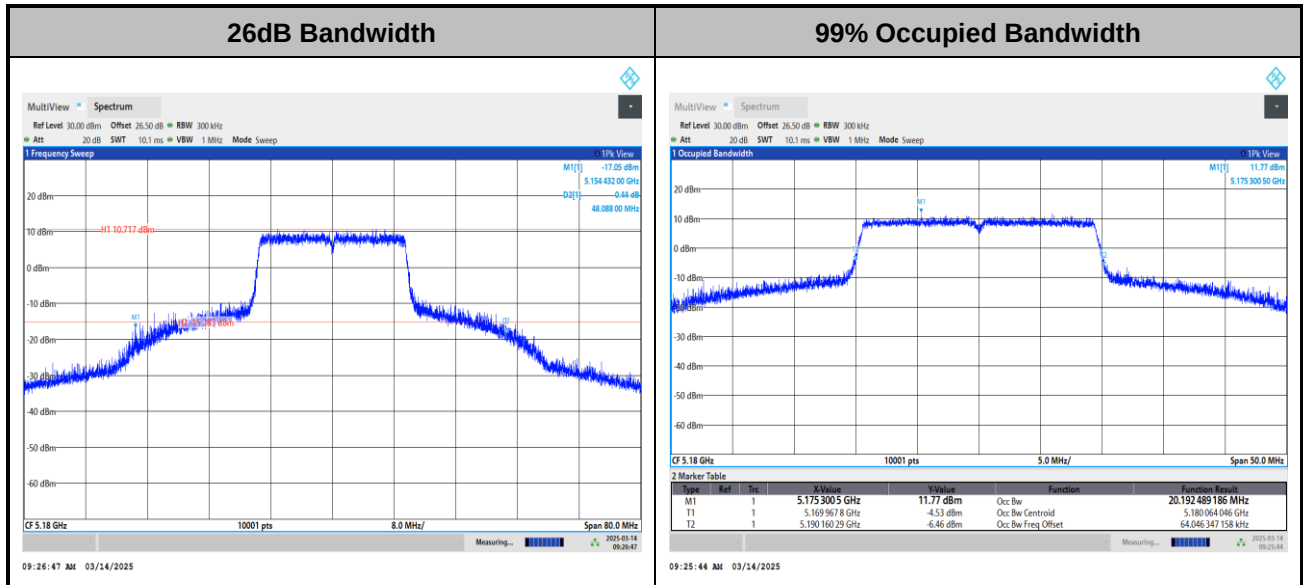
<802.11ac VHT80>



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

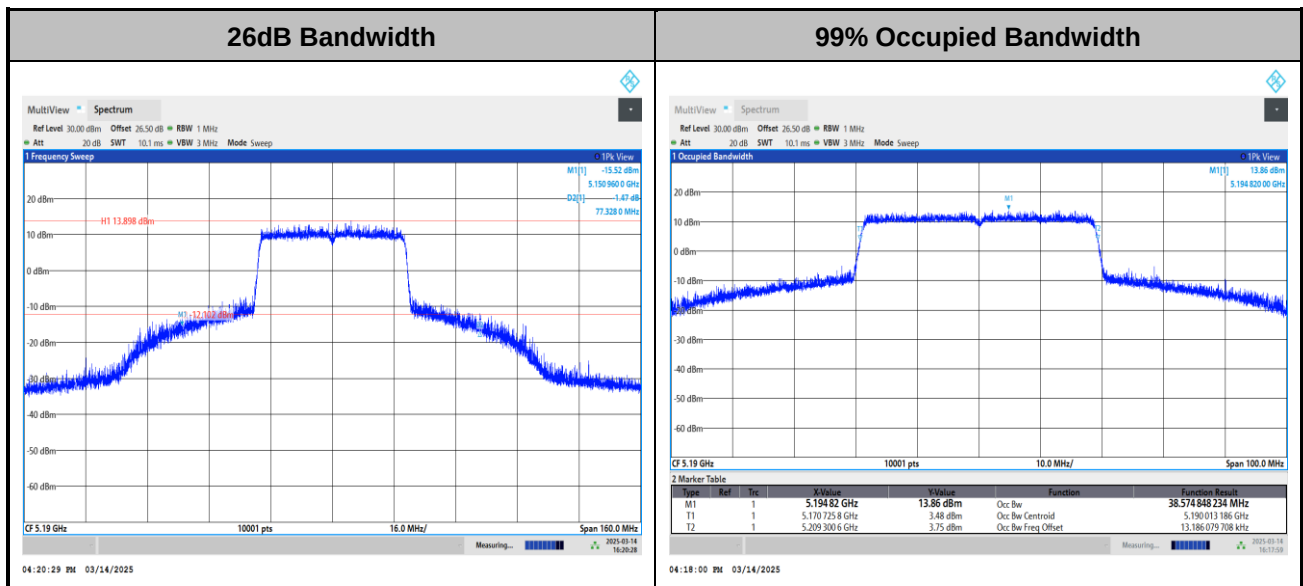


<802.11ax HE20>



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

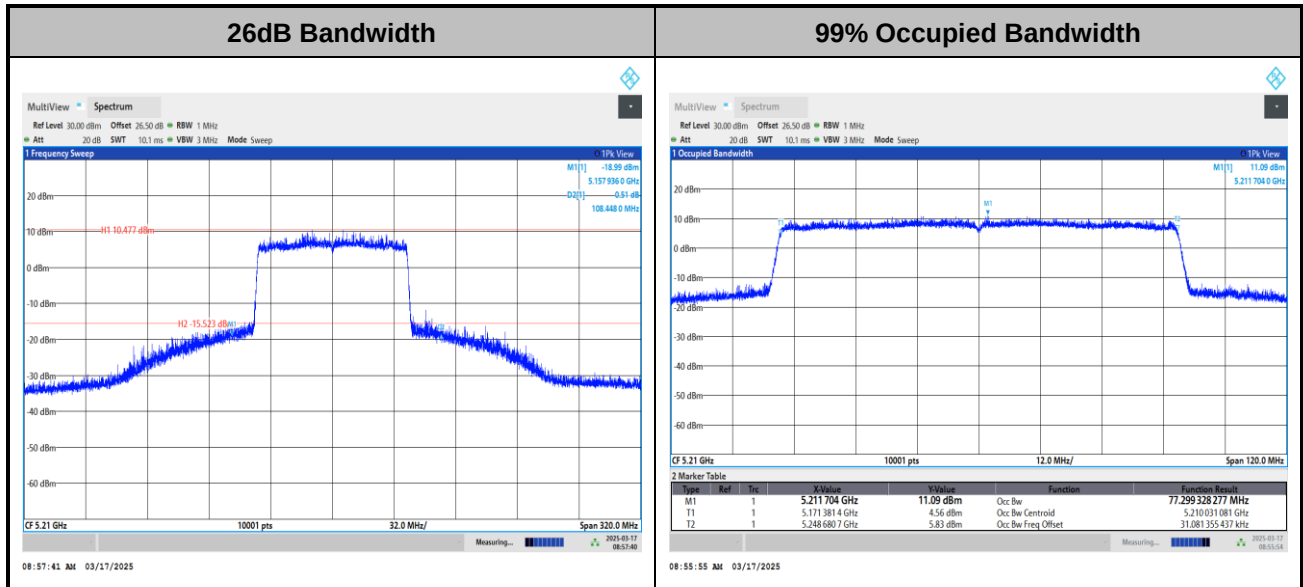
<802.11ax HE40>



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



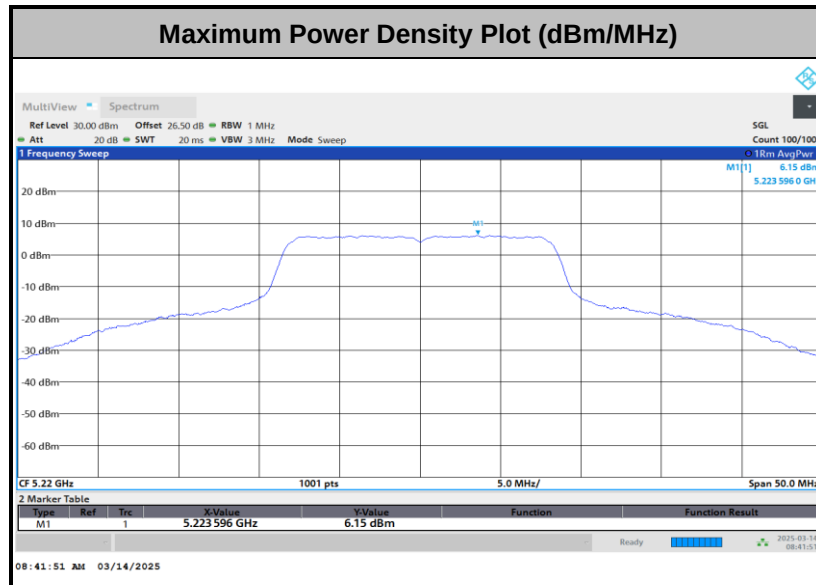
<802.11ax HE80>



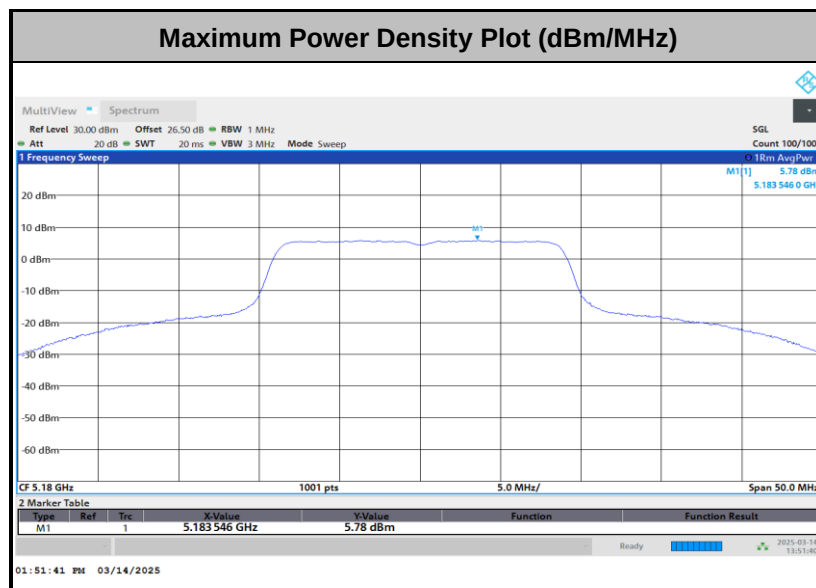
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**Test Result of Power Spectral Density**

<802.11a>

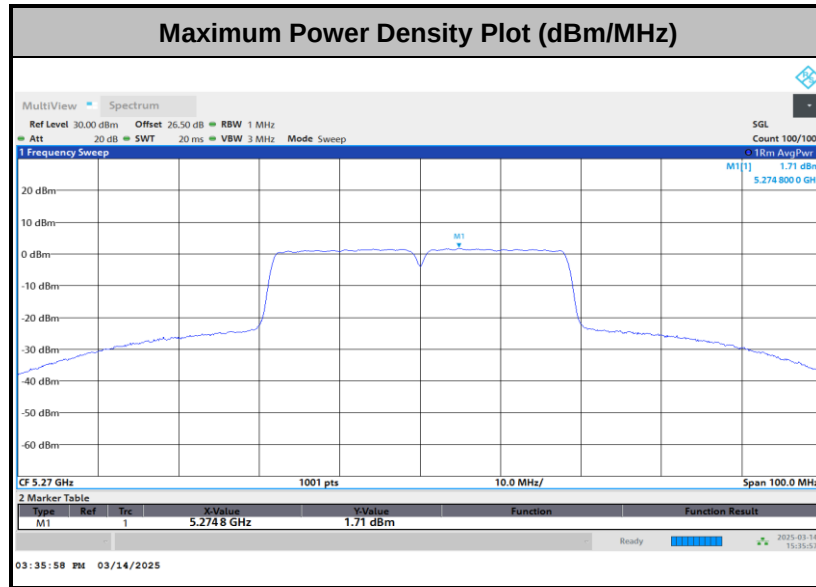


<802.11n HT20>

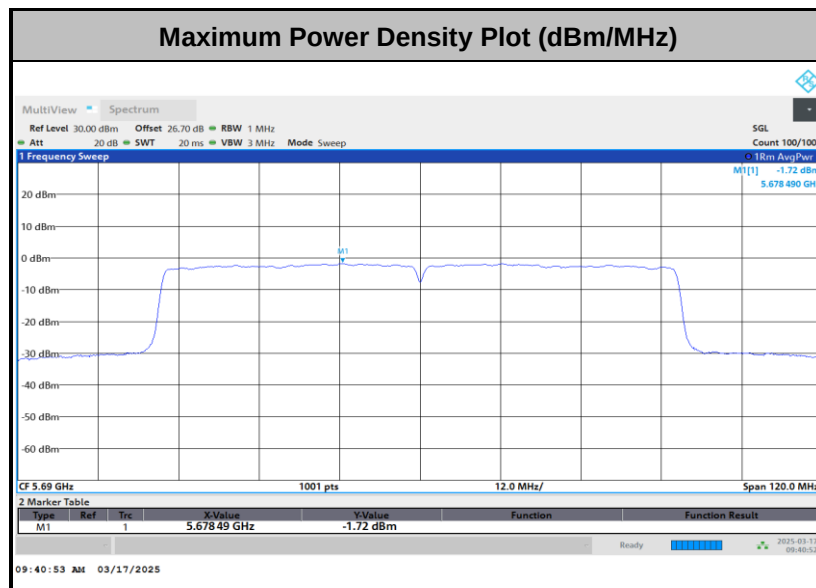




<802.11n HT40>

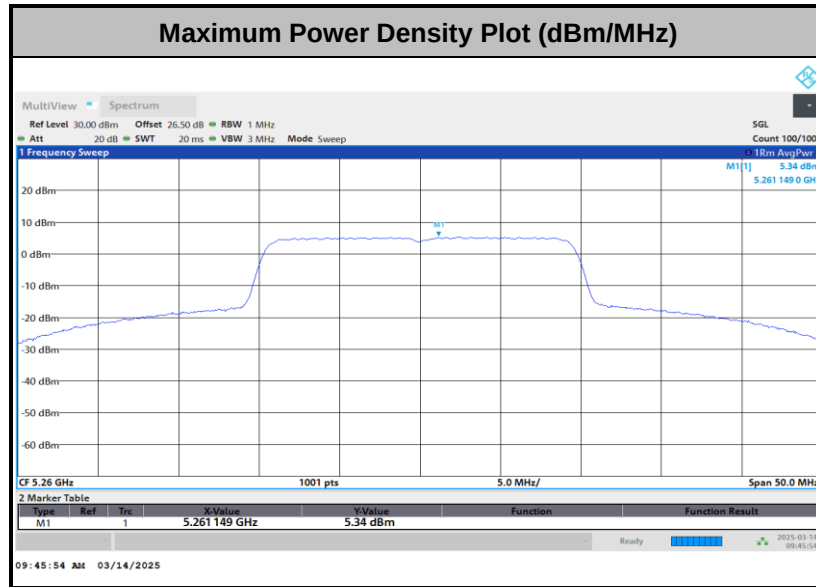


<802.11ac VHT80>

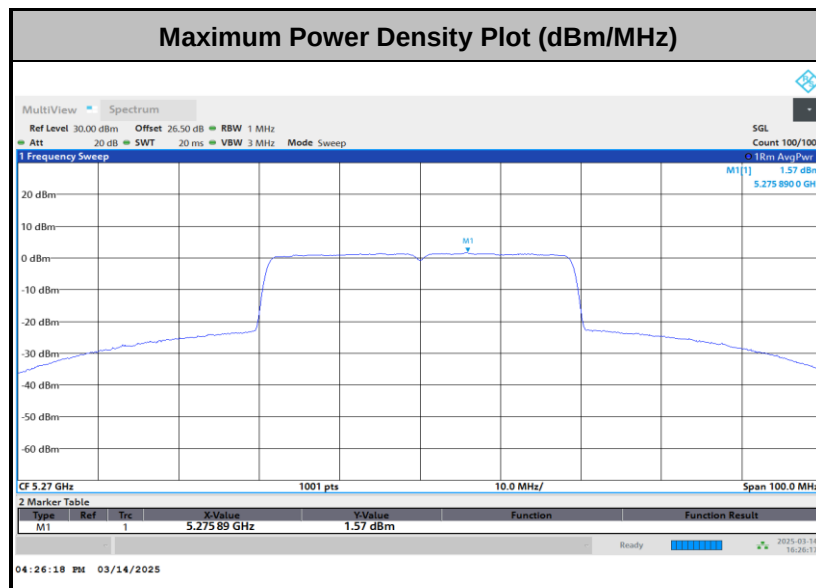




<802.11ax HE20>

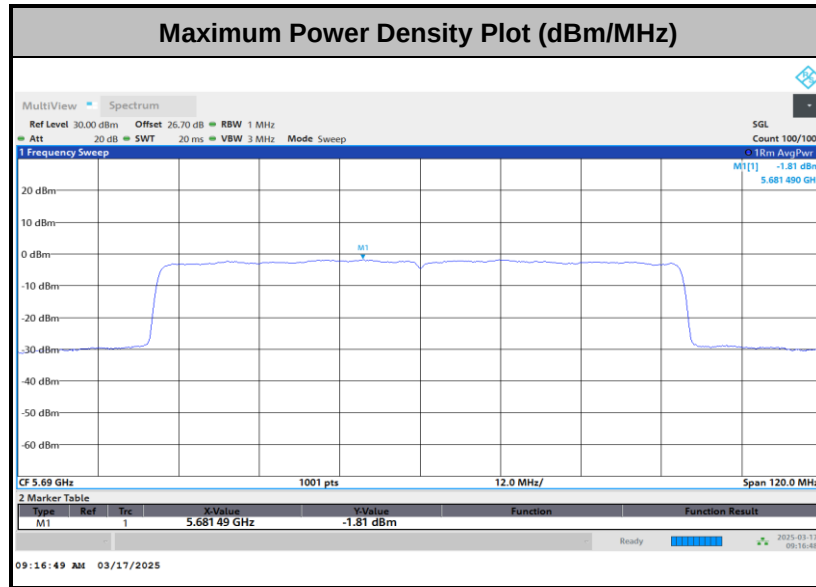


<802.11ax HE40>





<802.11ax HE80>



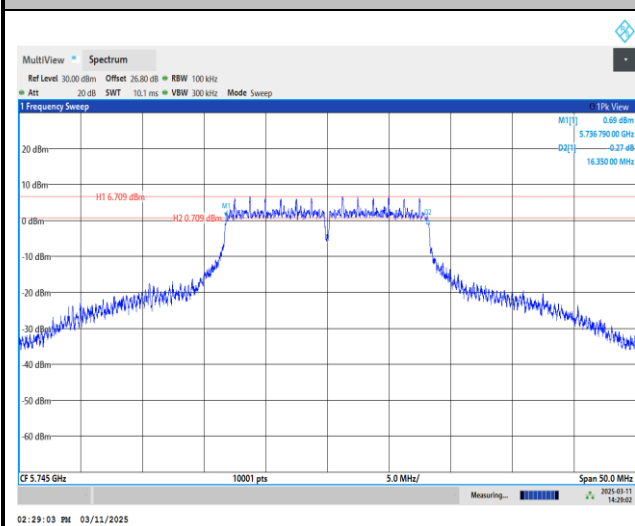


<For Band 4>

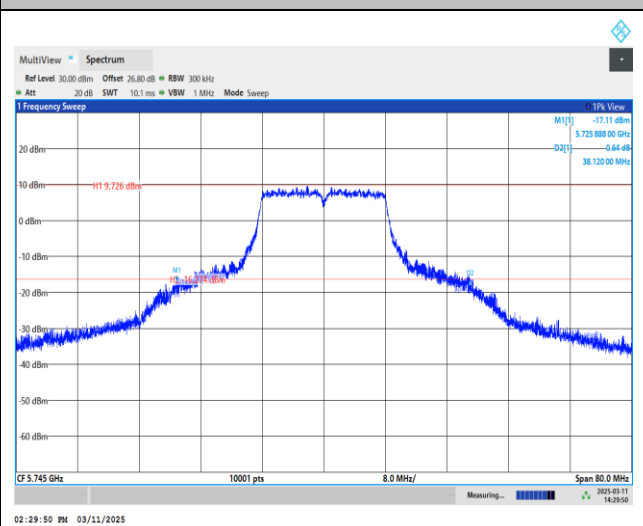
Test Result of 6dB and 26dB and 99% Occupied Bandwidth

<802.11a>

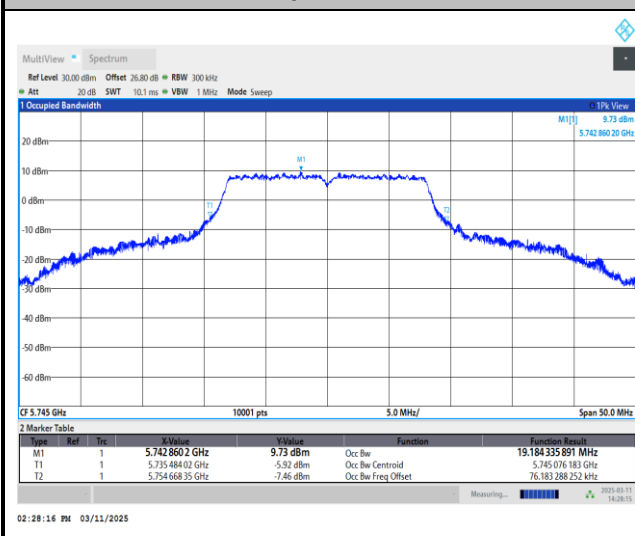
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

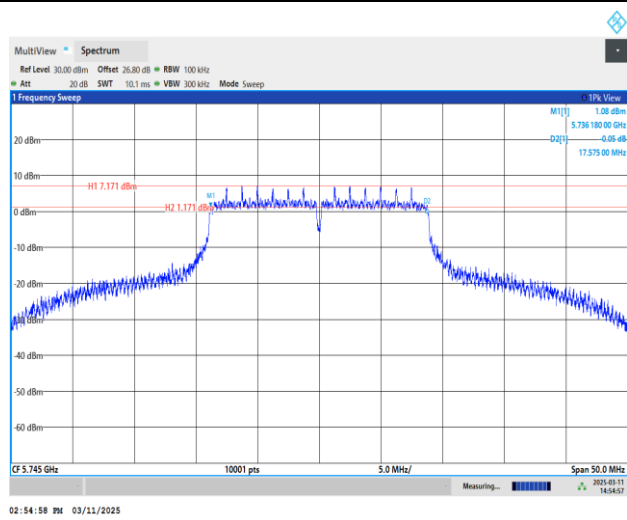


N/A

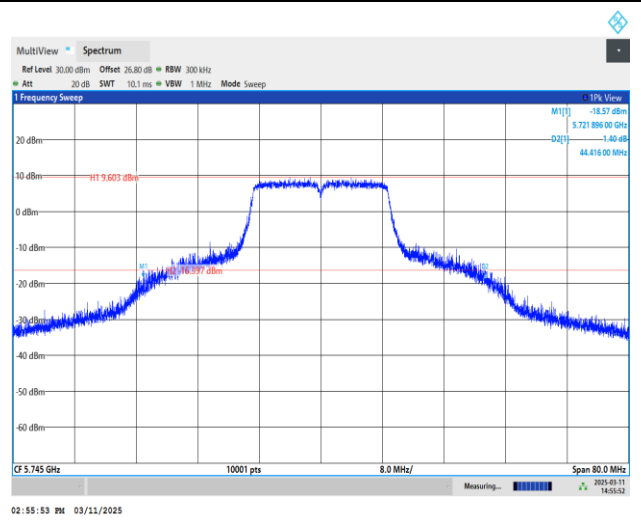


<802.11n HT20>

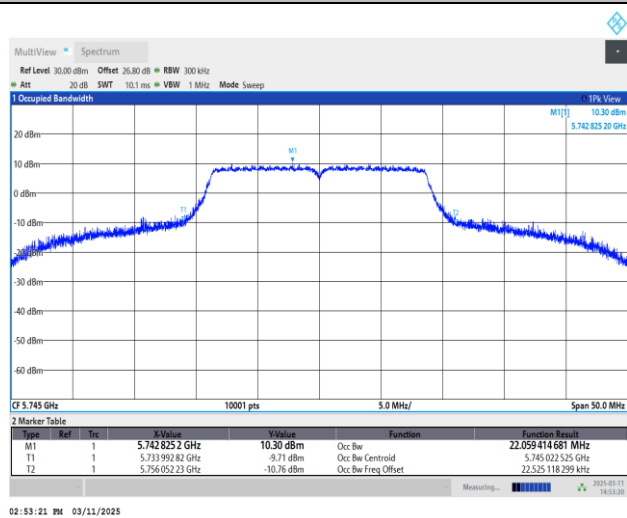
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

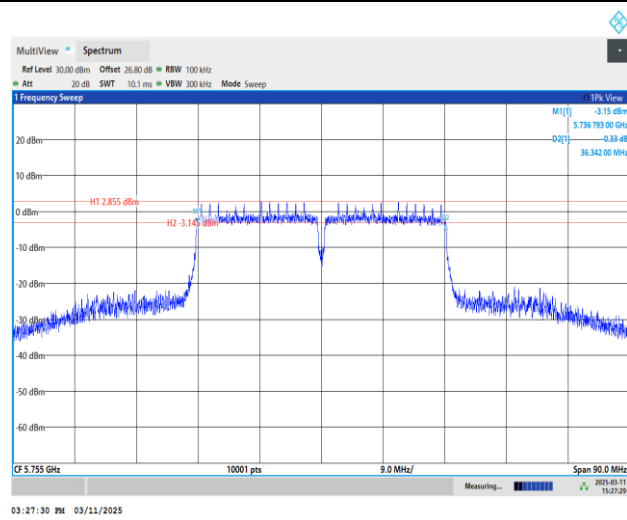


N/A

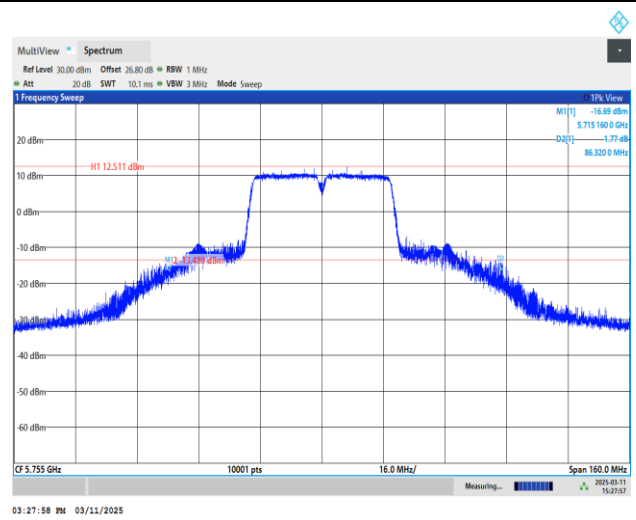


<802.11n HT40>

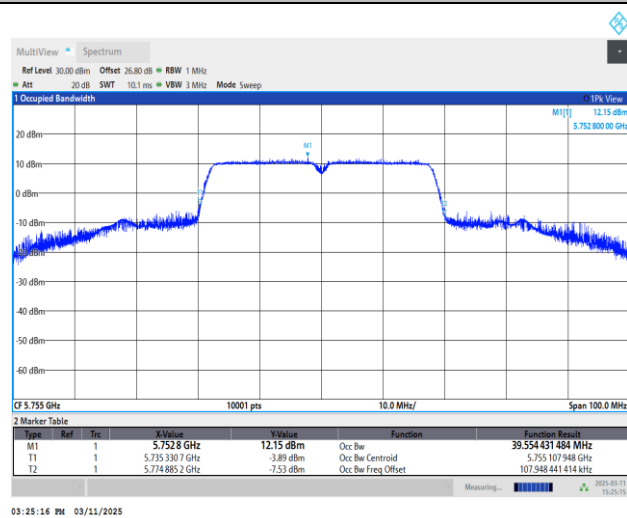
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

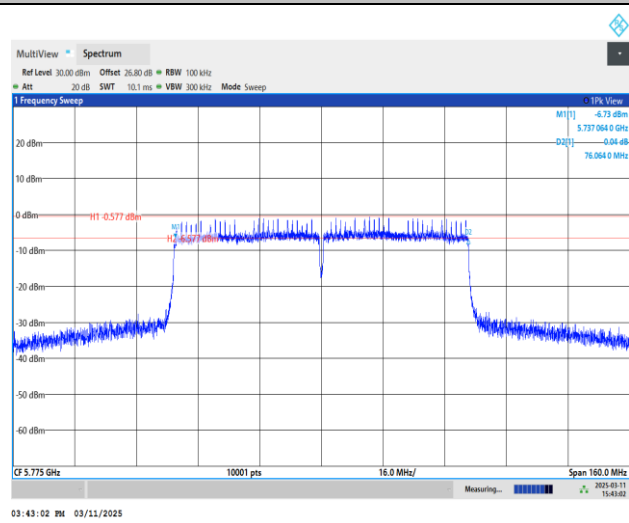


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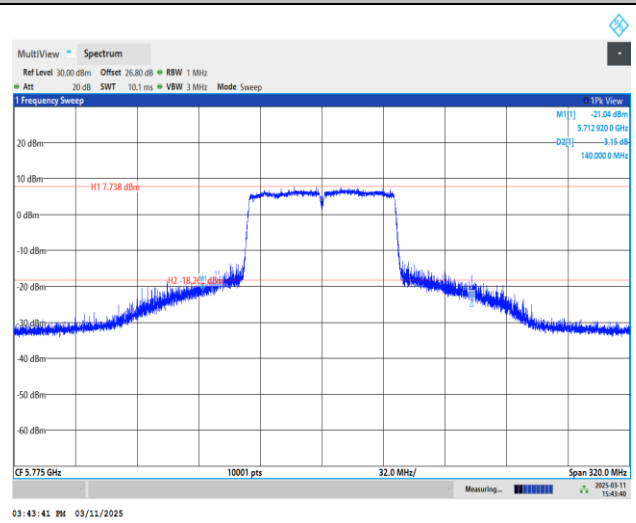


<802.11ac VHT80>

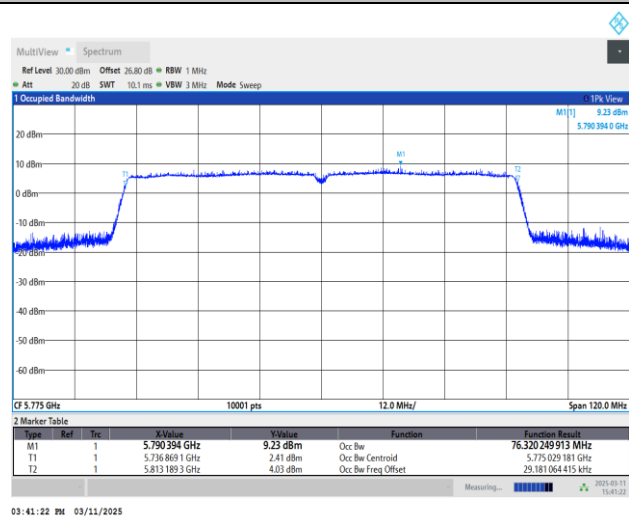
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

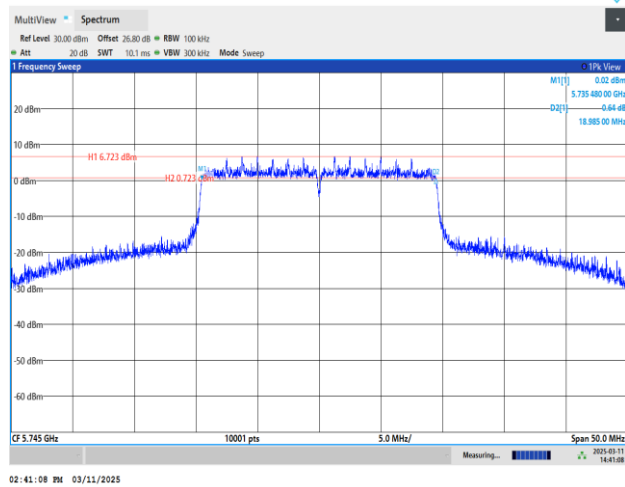


N/A

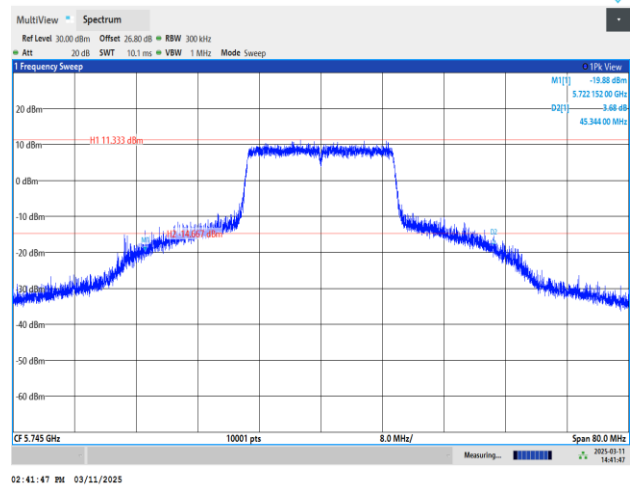


<802.11ax HE20>

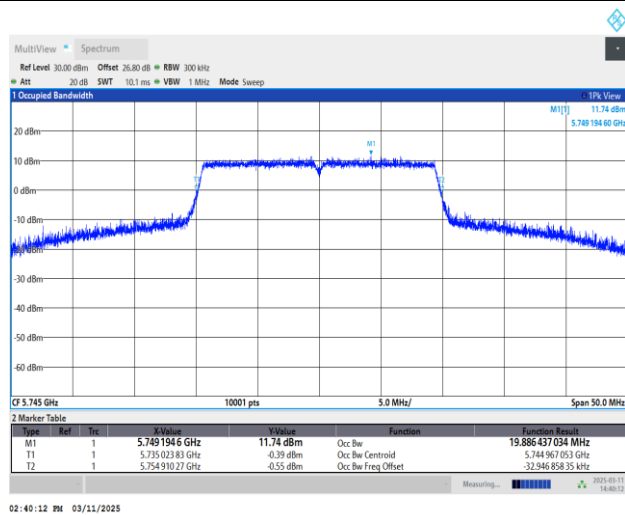
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

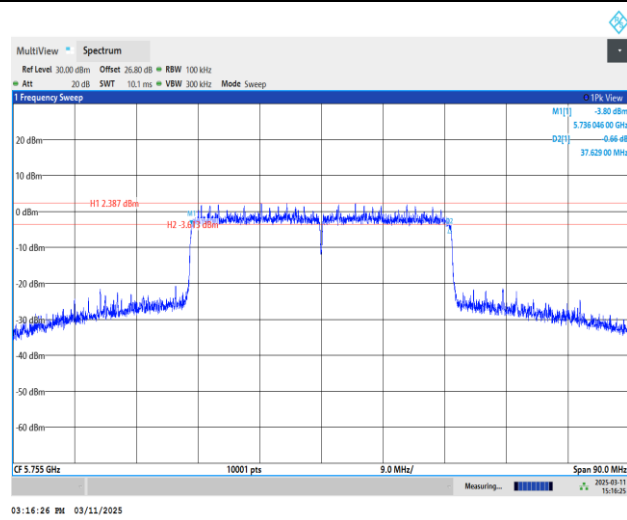


N/A

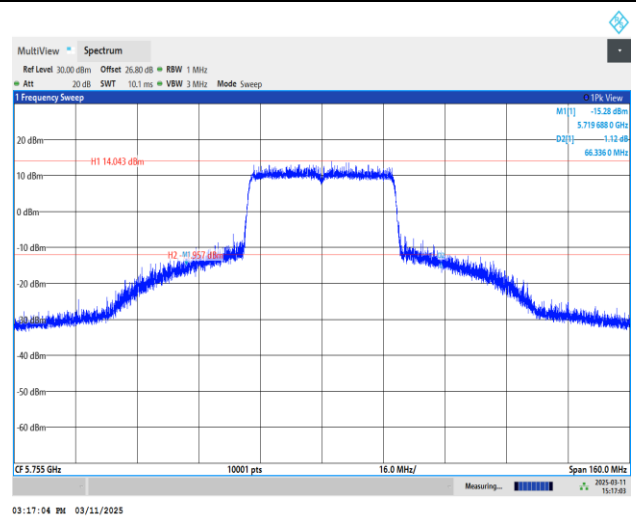


<802.11ax HE40>

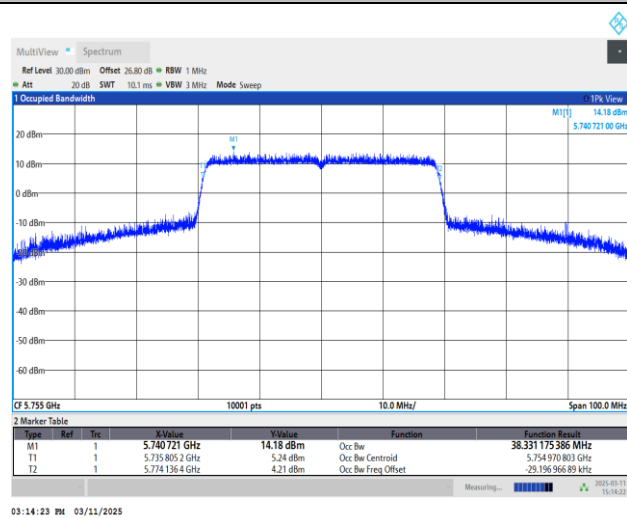
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

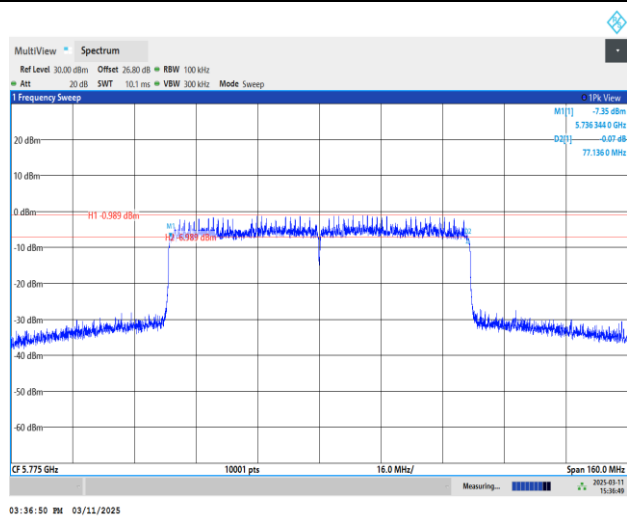


N/A

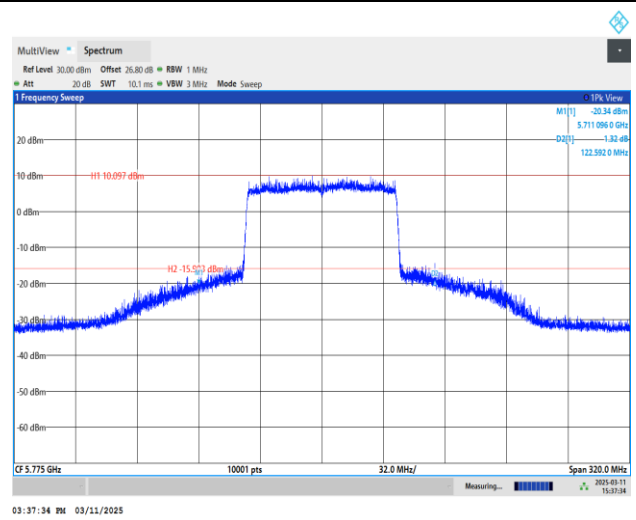


<802.11ax HE80>

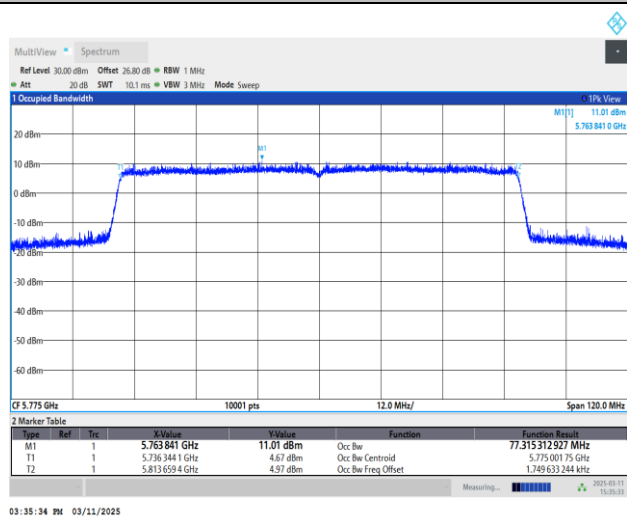
6dB Bandwidth



26dB Bandwidth



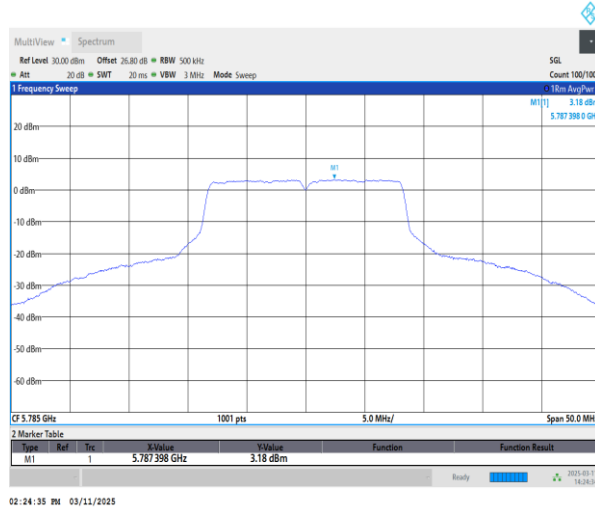
99% Occupied Bandwidth



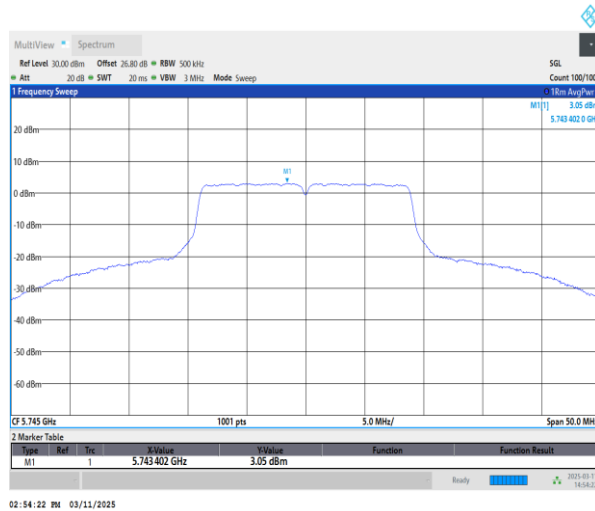
N/A

**Test Result of Power Spectral Density**

<802.11a>

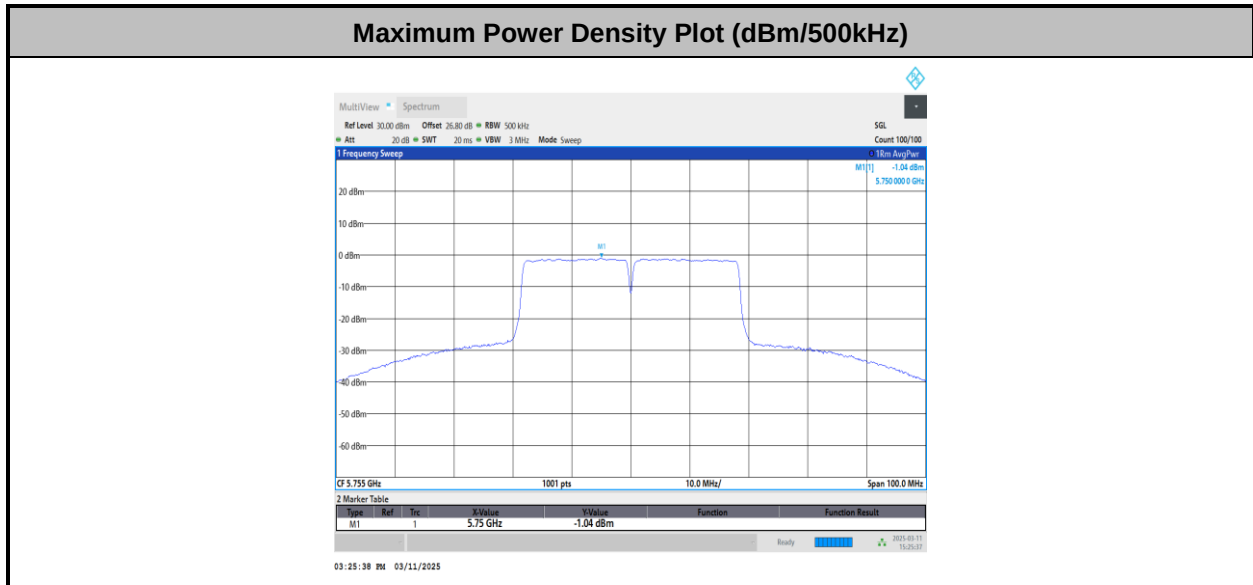
Maximum Power Density Plot (dBm/500kHz)

<802.11n HT20>

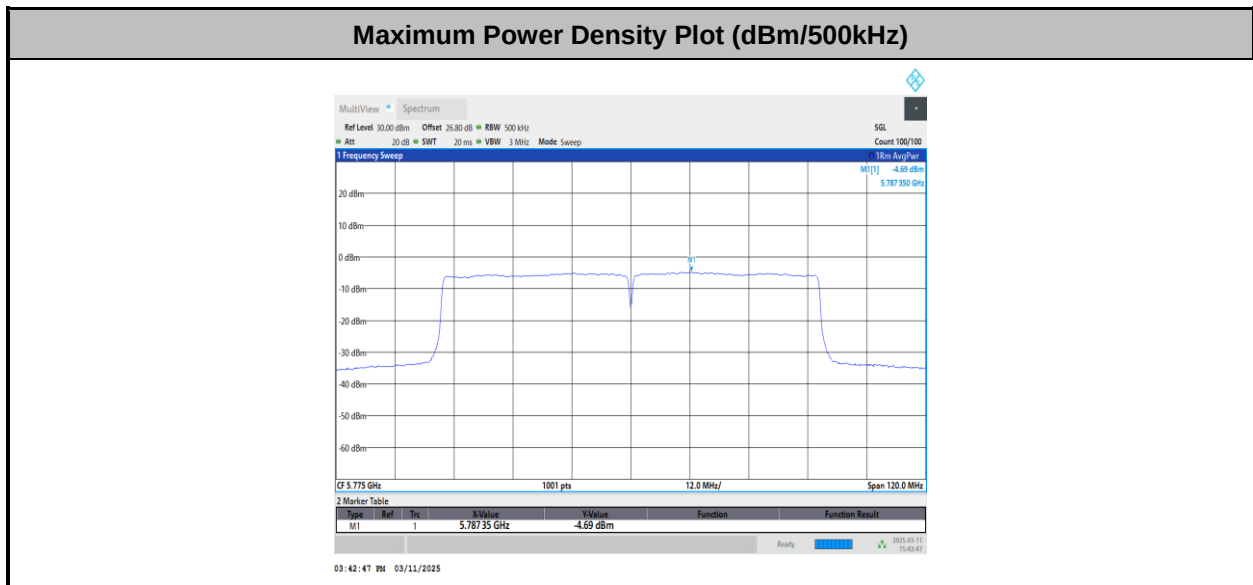
Maximum Power Density Plot (dBm/500kHz)



<802.11n HT40>

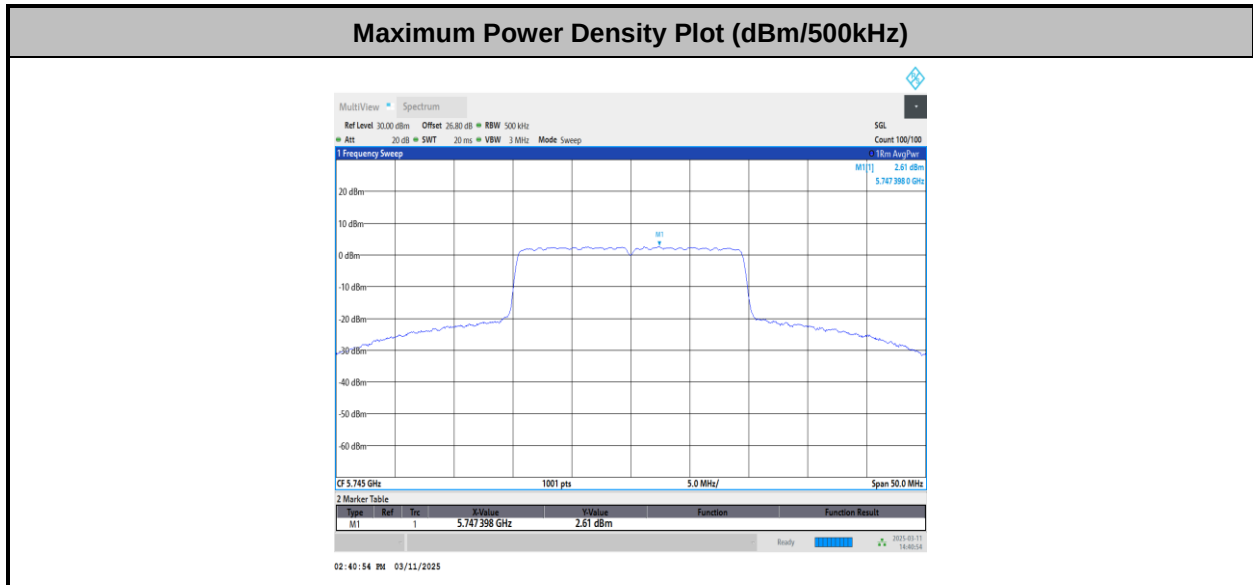


<802.11ac VHT80>

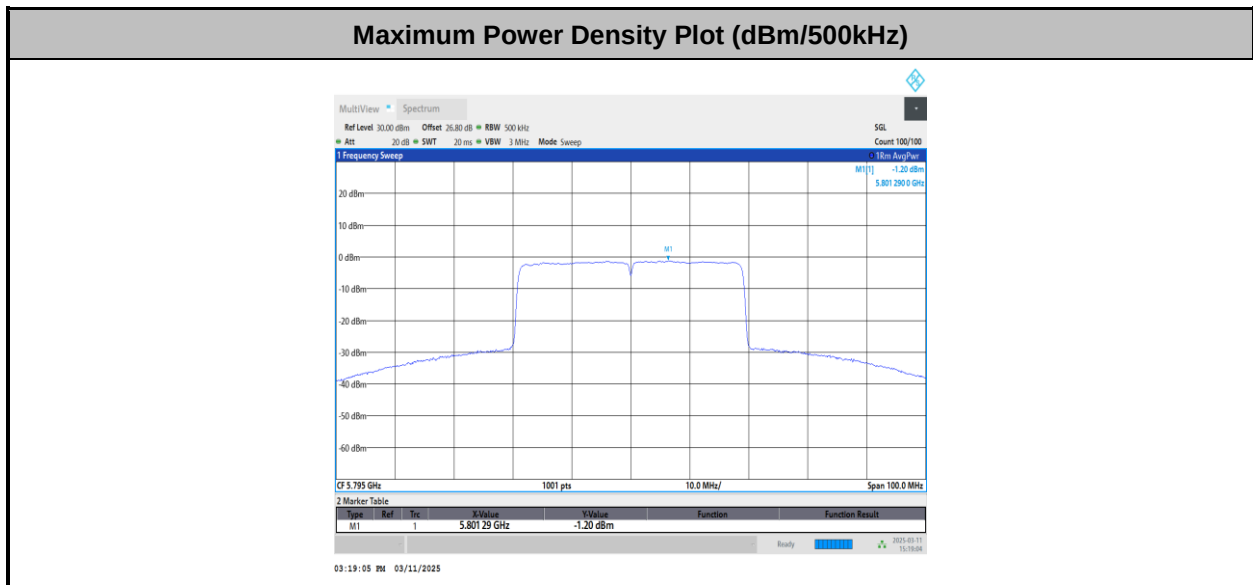




<802.11ax HE20>

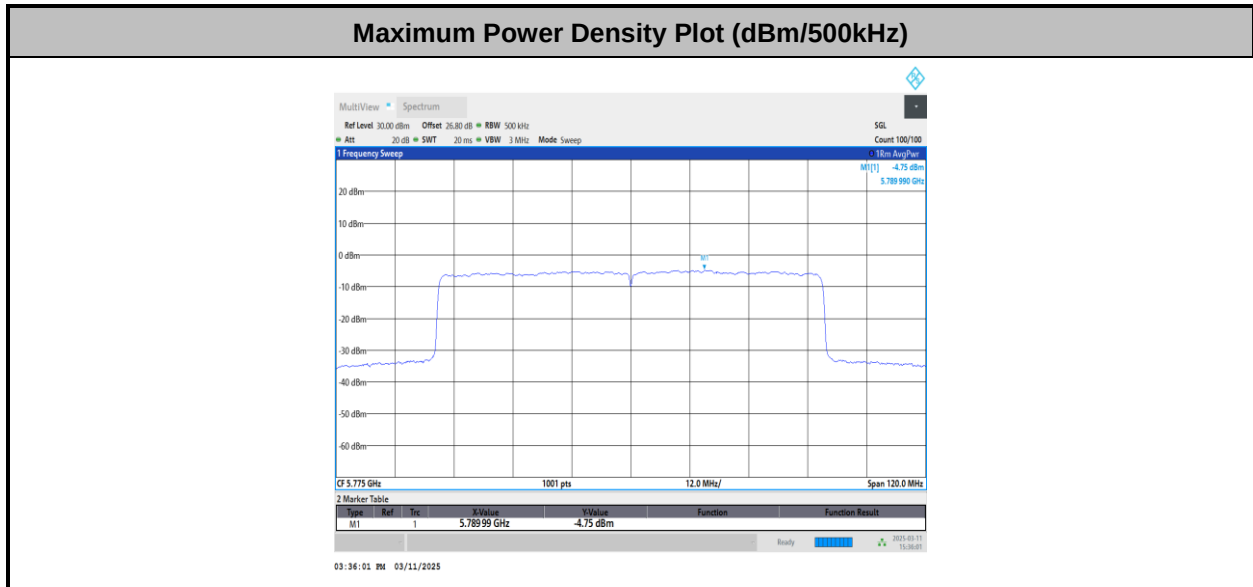


<802.11ax HE40>





<802.11ax HE80>





Appendix B. AC Conducted Emission Test Results

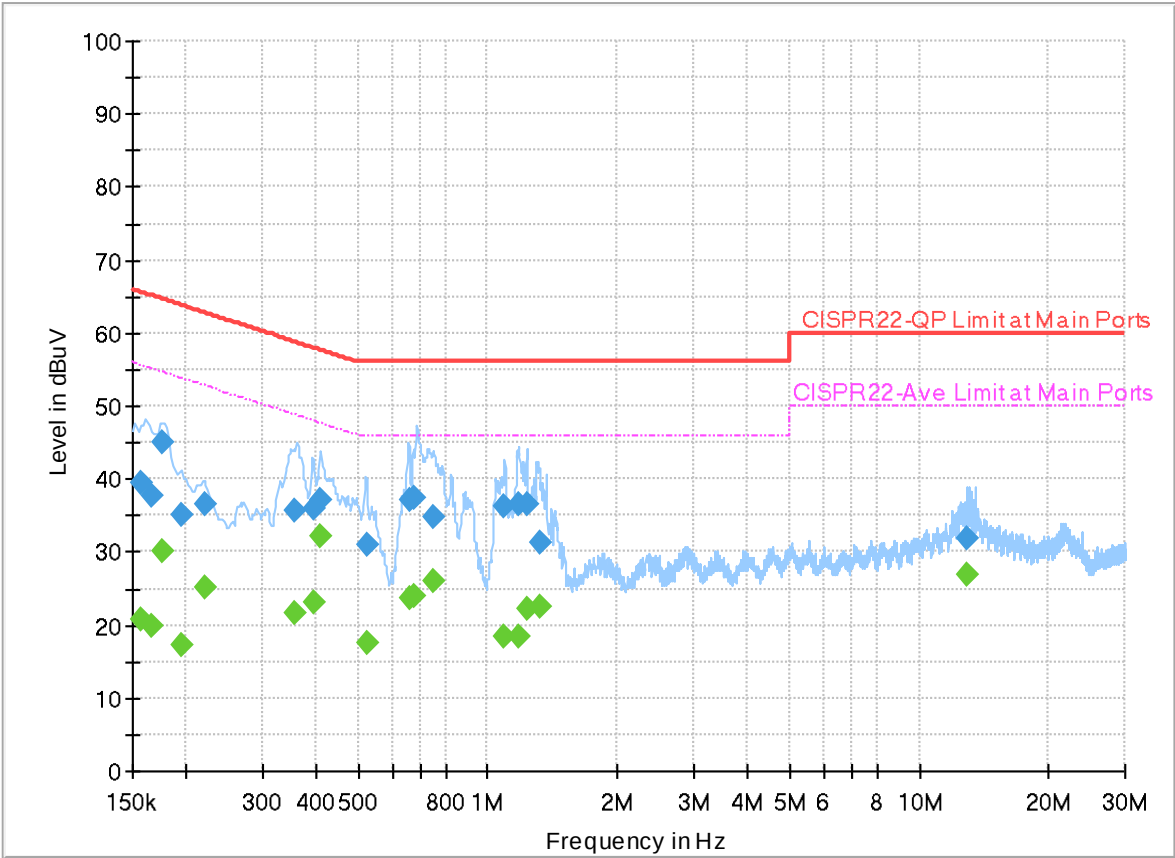
Test Engineer :	Louis Chung	Temperature :	21.3~22.4℃
		Relative Humidity :	53.9~64.4%

EUT Information

Test Mode :
Test Voltage :
Phase :

Mode 1
120Vac/60Hz
Line

Full Spectrum



Final_Result

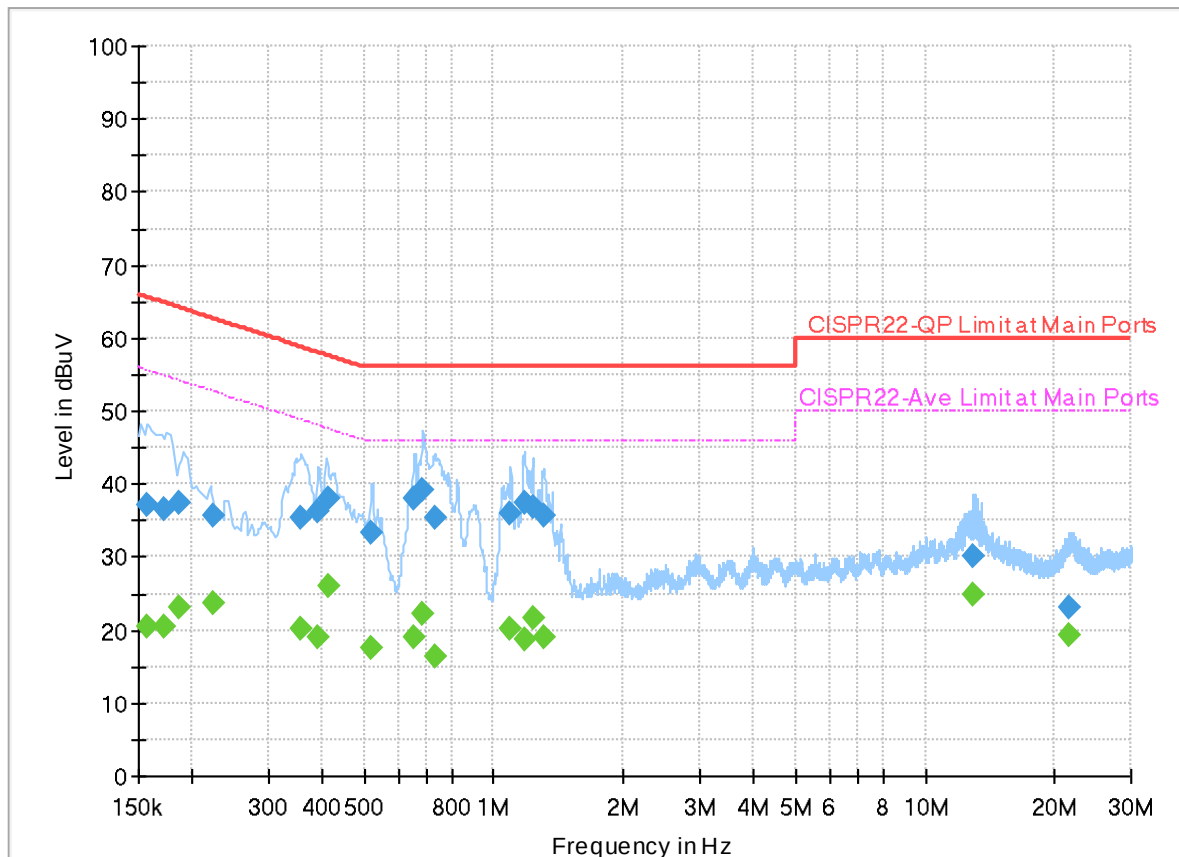
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.156750	---	20.84	55.63	34.79	L1	FLO	20.0
0.156750	39.44	---	65.63	26.19	L1	FLO	20.0
0.165750	---	19.91	55.17	35.26	L1	FLO	20.0
0.165750	37.76	---	65.17	27.41	L1	FLO	20.0
0.175650	---	30.17	54.69	24.52	L1	FLO	20.0
0.175650	44.99	---	64.69	19.70	L1	FLO	20.0
0.195000	---	17.26	53.82	36.56	L1	FLO	20.0
0.195000	35.06	---	63.82	28.76	L1	FLO	20.0
0.220380	---	25.07	52.81	27.74	L1	FLO	20.0
0.220380	36.46	---	62.81	26.35	L1	FLO	20.0
0.357000	---	21.52	48.80	27.28	L1	FLO	20.0
0.357000	35.76	---	58.80	23.04	L1	FLO	20.0
0.395250	---	23.24	47.95	24.71	L1	FLO	20.0
0.395250	35.84	---	57.95	22.11	L1	FLO	20.0
0.406770	---	32.25	47.71	15.46	L1	FLO	20.0
0.406770	37.07	---	57.71	20.64	L1	FLO	20.0
0.528000	---	17.57	46.00	28.43	L1	FLO	20.0
0.528000	30.90	---	56.00	25.10	L1	FLO	20.0
0.658500	---	23.80	46.00	22.20	L1	FLO	20.0

0.658500	36.99	---	56.00	19.01	L1	FLO	20.0
0.678750	---	23.96	46.00	22.04	L1	FLO	20.0
0.678750	37.45	---	56.00	18.55	L1	FLO	20.0
0.748050	---	25.99	46.00	20.01	L1	FLO	20.0
0.748050	34.93	---	56.00	21.07	L1	FLO	20.0
1.092750	---	18.46	46.00	27.54	L1	FLO	20.0
1.092750	36.17	---	56.00	19.83	L1	FLO	20.0
1.173030	---	18.53	46.00	27.47	L1	FLO	20.0
1.173030	36.54	---	56.00	19.46	L1	FLO	20.0
1.232430	---	22.36	46.00	23.64	L1	FLO	20.0
1.232430	36.57	---	56.00	19.43	L1	FLO	20.0
1.320000	---	22.54	46.00	23.46	L1	FLO	20.0
1.320000	31.31	---	56.00	24.69	L1	FLO	20.0
12.952500	---	26.95	50.00	23.05	L1	FLO	20.5
12.952500	31.90	---	60.00	28.10	L1	FLO	20.5

EUT Information

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	PE	Corr. (dB)
0.156300	---	20.48	55.66	35.18	N	FLO	20.0
0.156300	37.07	---	65.66	28.59	N	FLO	20.0
0.172500	---	20.33	54.84	34.51	N	FLO	20.0
0.172500	36.60	---	64.84	28.24	N	FLO	20.0
0.186000	---	23.23	54.21	30.98	N	FLO	20.0
0.186000	37.29	---	64.21	26.92	N	FLO	20.0
0.224250	---	23.62	52.66	29.04	N	FLO	20.0
0.224250	35.79	---	62.66	26.87	N	FLO	20.0
0.357810	---	20.31	48.78	28.47	N	FLO	20.0
0.357810	35.34	---	58.78	23.44	N	FLO	20.0
0.392640	---	19.10	48.01	28.91	N	FLO	20.0
0.392640	36.32	---	58.01	21.69	N	FLO	20.0
0.411540	---	26.10	47.62	21.52	N	FLO	20.0
0.411540	38.00	---	57.62	19.62	N	FLO	20.0
0.521610	---	17.61	46.00	28.39	N	FLO	20.0
0.521610	33.38	---	56.00	22.62	N	FLO	20.0
0.653460	---	19.14	46.00	26.86	N	FLO	20.0
0.653460	38.00	---	56.00	18.00	N	FLO	20.0
0.681000	---	22.36	46.00	23.64	N	FLO	20.0

0.681000	39.29	---	56.00	16.71	N	FLO	20.0
0.728250	---	16.50	46.00	29.50	N	FLO	20.0
0.728250	35.25	---	56.00	20.75	N	FLO	20.0
1.092570	---	20.07	46.00	25.93	N	FLO	20.0
1.092570	35.97	---	56.00	20.03	N	FLO	20.0
1.175100	---	18.68	46.00	27.32	N	FLO	20.0
1.175100	37.55	---	56.00	18.45	N	FLO	20.0
1.228290	---	21.56	46.00	24.44	N	FLO	20.0
1.228290	36.70	---	56.00	19.30	N	FLO	20.0
1.308750	---	18.93	46.00	27.07	N	FLO	20.0
1.308750	35.55	---	56.00	20.45	N	FLO	20.0
12.860070	---	25.00	50.00	25.00	N	FLO	20.5
12.860070	30.14	---	60.00	29.86	N	FLO	20.5
21.449670	---	19.21	50.00	30.79	N	FLO	20.8
21.449670	23.00	---	60.00	37.00	N	FLO	20.8



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Leo Li, Karl Hou and Lucifer Jiang	Temperature :	21.7~22.5°C
		Relative Humidity :	51~57%

Note symbol

-L	Low channel location
-R	High channel location

<For B1~3>
C1-1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	802.11n HT20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	802.11n HT20	44	5220	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	802.11n HT20	48	5240	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	802.11n HT40	38	5190	MCS0	-	-
Mode 8	U-NII-1	5.15-5.25	802.11n HT40	46	5230	MCS0	-	-
Mode 9	U-NII-1	5.15-5.25	802.11ac VHT80	42	5210	MCS0	-	-
Mode 10	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 11	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	Partial RU 26/0	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	Partial RU 52/37	-
Mode 13	U-NII-1	5.15-5.25	802.11ax HE20	36	5180	MCS0	Partial RU 106/53	-
Mode 14	U-NII-1	5.15-5.25	802.11ax HE20	44	5220	MCS0	Full RU	-
Mode 15	U-NII-1	5.15-5.25	802.11ax HE20	48	5240	MCS0	Full RU	-
Mode 16	U-NII-1	5.15-5.25	802.11ax HE40	38	5190	MCS0	Full RU	-
Mode 17	U-NII-1	5.15-5.25	802.11ax HE40	46	5230	MCS0	Full RU	-
Mode 18	U-NII-1	5.15-5.25	802.11ax HE80	42	5210	MCS0	Full RU	-
Mode 19	U-NII-2A	5.25-5.35	802.11a	52	5260	6Mbps	-	-
Mode 20	U-NII-2A	5.25-5.35	802.11a	60	5300	6Mbps	-	-
Mode 21	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-	-
Mode 22	U-NII-2A	5.25-5.35	802.11n HT20	52	5260	MCS0	-	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 23	U-NII-2A	5.25-5.35	802.11n HT20	60	5300	MCS0	-	-
Mode 24	U-NII-2A	5.25-5.35	802.11n HT20	64	5320	MCS0	-	-
Mode 25	U-NII-2A	5.25-5.35	802.11n HT40	54	5270	MCS0	-	-
Mode 26	U-NII-2A	5.25-5.35	802.11n HT40	62	5310	MCS0	-	-
Mode 27	U-NII-2A	5.25-5.35	802.11ac VHT80	58	5290	MCS0	-	-
Mode 28	U-NII-2A	5.25-5.35	802.11ax HE20	52	5260	MCS0	Full RU	-
Mode 29	U-NII-2A	5.25-5.35	802.11ax HE20	60	5300	MCS0	Full RU	-
Mode 30	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 31	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	Partial RU 26/8	-
Mode 32	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	Partial RU 52/40	-
Mode 33	U-NII-2A	5.25-5.35	802.11ax HE20	64	5320	MCS0	Partial RU 106/54	-



Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 34	U-NII-2A	5.25-5.35	802.11ax HE40	54	5270	MCS0	Full RU	-
Mode 35	U-NII-2A	5.25-5.35	802.11ax HE40	62	5310	MCS0	Full RU	-
Mode 36	U-NII-2A	5.25-5.35	802.11ax HE80	58	5290	MCS0	Full RU	-
Mode 37	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-	-
Mode 38	U-NII-2C	5.47-5.725	802.11a	116	5580	6Mbps	-	-
Mode 39	U-NII-2C	5.47-5.725	802.11a	140	5700	6Mbps	-	-
Mode 40	U-NII-2C	5.47-5.725	802.11a	144	5720	6Mbps	-	-
Mode 41	U-NII-2C	5.47-5.725	802.11n HT20	100	5500	MCS0	-	-
Mode 42	U-NII-2C	5.47-5.725	802.11n HT20	116	5580	MCS0	-	-
Mode 43	U-NII-2C	5.47-5.725	802.11n HT20	140	5700	MCS0	-	-
Mode 44	U-NII-2C	5.47-5.725	802.11n HT20	144	5720	MCS0	-	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 45	U-NII-2C	5.47-5.725	802.11n HT40	102	5510	MCS0	-	-
Mode 46	U-NII-2C	5.47-5.725	802.11n HT40	110	5550	MCS0	-	-
Mode 47	U-NII-2C	5.47-5.725	802.11n HT40	134	5670	MCS0	-	-
Mode 48	U-NII-2C	5.47-5.725	802.11n HT40	142	5710	MCS0	-	-
Mode 49	U-NII-2C	5.47-5.725	802.11ac VHT80	106	5530	MCS0	-	-
Mode 50	U-NII-2C	5.47-5.725	802.11ac VHT80	122	5610	MCS0	-	-
Mode 51	U-NII-2C	5.47-5.725	802.11ac VHT80	138	5690	MCS0	-	-
Mode 52	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	Full RU	-
Mode 53	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	Partial RU 26/0	-
Mode 54	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	Partial RU 52/37	-
Mode 55	U-NII-2C	5.47-5.725	802.11ax HE20	100	5500	MCS0	Partial RU 106/53	-

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 56	U-NII-2C	5.47-5.725	802.11ax HE20	116	5580	MCS0	Full RU	-
Mode 57	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	Full RU	-
Mode 58	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	Partial RU 26/8	-
Mode 59	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	Partial RU 52/40	-
Mode 60	U-NII-2C	5.47-5.725	802.11ax HE20	140	5700	MCS0	Partial RU 106/54	-
Mode 61	U-NII-2C	5.47-5.725	802.11ax HE20	144	5720	MCS0	Full RU	-
Mode 62	U-NII-2C	5.47-5.725	802.11ax HE40	102	5510	MCS0	Full RU	-
Mode 63	U-NII-2C	5.47-5.725	802.11ax HE40	110	5550	MCS0	Full RU	-
Mode 64	U-NII-2C	5.47-5.725	802.11ax HE40	134	5670	MCS0	Full RU	-
Mode 65	U-NII-2C	5.47-5.725	802.11ax HE40	142	5710	MCS0	Full RU	-
Mode 66	U-NII-2C	5.47-5.725	802.11ax HE80	106	5530	MCS0	Full RU	-



Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 67	U-NII-2C	5.47-5.725	802.11ax HE80	122	5610	MCS0	Full RU	-
Mode 68	U-NII-2C	5.47-5.725	802.11ax HE80	138	5690	MCS0	Full RU	-
Mode 69	U-NII-2C	5.47-5.725	802.11ax HE20	136	5680	MCS0	Full RU	-
Mode 70	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-	LF
Mode 71	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-	SHF

**C1-2. Summary of each worse mode**

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11a	36	5149.94	50.72	54.00	-3.28	V	Avg.	Pass	-	Band Edge
	802.11a	36	15540.00	45.44	54.00	-8.56	H	Avg.	Pass	-	Harmonic
2	802.11a	44	5146.74	43.32	54.00	-10.68	V	Avg.	Pass	-	Band Edge
	802.11a	44	15660.00	46.23	54.00	-7.77	H	Avg.	Pass	-	Harmonic
3	802.11a	48	5149.04	42.99	54.00	-11.01	V	Avg.	Pass	-	Band Edge
	802.11a	48	15720.00	46.67	54.00	-7.33	V	Avg.	Pass	-	Harmonic
4	802.11n HT20	36	5149.76	51.88	54.00	-2.12	V	Avg.	Pass	-	Band Edge
	802.11n HT20	36	15540.00	44.81	54.00	-9.19	H	Avg.	Pass	-	Harmonic
5	802.11n HT20	44	5055.44	43.03	54.00	-10.97	H	Avg.	Pass	-	Band Edge
	802.11n HT20	44	15660.00	45.34	54.00	-8.66	V	Avg.	Pass	-	Harmonic
6	802.11n HT20	48	5016.56	43.03	54.00	-10.97	V	Avg.	Pass	-	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11n HT20	48	15720.00	46.23	54.00	-7.77	V	Avg.	Pass	-	Harmonic
7	802.11n HT40	38	5149.91	50.64	54.00	-3.36	V	Avg.	Pass	-	Band Edge
	802.11n HT40	38	15570.00	45.99	54.00	-8.01	H	Avg.	Pass	-	Harmonic
8	802.11n HT40	46	5148.81	43.19	54.00	-10.81	V	Avg.	Pass	-	Band Edge
	802.11n HT40	46	15690.00	45.83	54.00	-8.17	V	Avg.	Pass	-	Harmonic
9	802.11ac VHT80	42	5149.94	52.40	54.00	-1.60	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	42	15630.00	45.86	54.00	-8.14	V	Avg.	Pass	-	Harmonic
10	802.11ax HE20	36	5149.94	50.95	54.00	-3.05	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	36	15540.00	45.50	54.00	-8.50	V	Avg.	Pass	Full RU	Harmonic
11	802.11ax HE20	36	5138.06	51.67	54.00	-2.33	V	Avg.	Pass	Partial RU 26/0	Band Edge
12	802.11ax HE20	36	5144.72	49.90	54.00	-4.10	V	Avg.	Pass	Partial RU 52/37	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
13	802.11ax HE20	36	5014.22	42.48	54.00	-11.52	V	Avg.	Pass	Partial RU 106/53	Band Edge
14	802.11ax HE20	44	5073.04	43.31	54.00	-10.69	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	44	15660.00	45.17	54.00	-8.83	V	Avg.	Pass	Full RU	Harmonic
15	802.11ax HE20	48	5031.20	43.19	54.00	-10.81	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	48	15720.00	45.86	54.00	-8.14	H	Avg.	Pass	Full RU	Harmonic
16	802.11ax HE40	38	5149.53	51.26	54.00	-2.74	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	38	15570.00	44.80	54.00	-9.20	H	Avg.	Pass	Full RU	Harmonic
17	802.11ax HE40	46	5149.96	43.33	54.00	-10.67	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	46	15690.00	45.42	54.00	-8.58	H	Avg.	Pass	Full RU	Harmonic
18	802.11ax HE80	42	5148.89	51.55	54.00	-2.45	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	42	15630.00	45.20	54.00	-8.80	V	Avg.	Pass	Full RU	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
19	802.11a	52	5005.46	42.98	54.00	-11.02	V	Avg.	Pass	-	Band Edge
	802.11a	52	15780.00	45.11	54.00	-8.89	H	Avg.	Pass	-	Harmonic
20	802.11a	60	5350.24	48.19	54.00	-5.81	H	Avg.	Pass	-	Band Edge
	802.11a	60	15900.00	45.16	54.00	-8.84	V	Avg.	Pass	-	Harmonic
21	802.11a	64	5350.10	47.82	54.00	-6.18	V	Avg.	Pass	-	Band Edge
	802.11a	64	15960.00	45.35	54.00	-8.65	V	Avg.	Pass	-	Harmonic
22	802.11n HT20	52	5034.58	43.19	54.00	-10.81	V	Avg.	Pass	-	Band Edge
	802.11n HT20	52	15780.00	45.49	54.00	-8.51	V	Avg.	Pass	-	Harmonic
23	802.11n HT20	60	5350.40	48.52	54.00	-5.48	V	Avg.	Pass	-	Band Edge
	802.11n HT20	60	15900.00	46.21	54.00	-7.79	V	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
24	802.11n HT20	64	5350.38	50.81	54.00	-3.19	V	Avg.	Pass	-	Band Edge
	802.11n HT20	64	15960.00	44.98	54.00	-9.02	H	Avg.	Pass	-	Harmonic
25	802.11n HT40	54	5350.56	46.58	54.00	-7.42	V	Avg.	Pass	-	Band Edge
	802.11n HT40	54	15810.00	45.77	54.00	-8.23	H	Avg.	Pass	-	Harmonic
26	802.11n HT40	62	5350.05	50.44	54.00	-3.56	V	Avg.	Pass	-	Band Edge
	802.11n HT40	62	15930.00	45.46	54.00	-8.54	V	Avg.	Pass	-	Harmonic
27	802.11ac VHT80	58	5350.86	50.53	54.00	-3.47	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	58	15870.00	43.54	54.00	-10.46	V	Avg.	Pass	-	Harmonic
28	802.11ax HE20	52	5008.84	43.12	54.00	-10.88	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	52	15780.00	44.42	54.00	-9.58	V	Avg.	Pass	Full RU	Harmonic

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
29	802.11ax HE20	60	5350.24	50.79	54.00	-3.21	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	60	15900.00	44.20	54.00	-9.80	V	Avg.	Pass	Full RU	Harmonic
30	802.11ax HE20	64	5350.80	50.47	54.00	-3.53	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	64	15960.00	43.96	54.00	-10.04	H	Avg.	Pass	Full RU	Harmonic
31	802.11ax HE20	64	5361.72	49.87	54.00	-4.13	H	Avg.	Pass	Partial RU 26/8	Band Edge
32	802.11ax HE20	64	5356.26	51.51	54.00	-2.49	V	Avg.	Pass	Partial RU 52/40	Band Edge
33	802.11ax HE20	64	5350.10	49.09	54.00	-4.91	V	Avg.	Pass	Partial RU 106/54	Band Edge
34	802.11ax HE40	54	5350.18	46.71	54.00	-7.29	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	54	15810.00	44.31	54.00	-9.69	V	Avg.	Pass	Full RU	Harmonic
35	802.11ax HE40	62	5350.20	49.59	54.00	-4.41	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	62	15930.00	44.36	54.00	-9.64	H	Avg.	Pass	Full RU	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
36	802.11ax HE80	58	5350.18	51.03	54.00	-2.97	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	58	15870.00	44.19	54.00	-9.81	V	Avg.	Pass	Full RU	Harmonic
37	802.11a	100	5469.85	66.68	68.20	-1.52	H	Peak	Pass	-	Band Edge
	802.11a	100	16500.00	54.70	68.20	-13.50	H	Peak	Pass	-	Harmonic
38	802.11a	116	5459.48	40.98	54.00	-13.02	H	Avg.	Pass	-	Band Edge
	802.11a	116	16740.00	54.71	68.20	-13.49	H	Peak	Pass	-	Harmonic
39	802.11a	140	5725.74	66.11	68.20	-2.09	V	Peak	Pass	-	Band Edge
	802.11a	140	11400.00	41.29	54.00	-12.71	V	Avg.	Pass	-	Harmonic
40	802.11a	144	5449.84	40.89	54.00	-13.11	V	Avg.	Pass	-	Band Edge
	802.11a	144	11440.00	41.32	54.00	-12.68	H	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
41	802.11n HT20	100	5465.05	63.61	68.20	-4.59	V	Peak	Pass	-	Band Edge
	802.11n HT20	100	16500.00	54.90	68.20	-13.30	V	Peak	Pass	-	Harmonic
42	802.11n HT20	116	5459.94	41.35	54.00	-12.65	V	Avg.	Pass	-	Band Edge
	802.11n HT20	116	11160.00	40.46	54.00	-13.54	V	Avg.	Pass	-	Harmonic
43	802.11n HT20	140	5729.32	66.44	68.20	-1.76	V	Peak	Pass	-	Band Edge
	802.11n HT20	140	11400.00	41.73	54.00	-12.27	V	Avg.	Pass	-	Harmonic
44	802.11n HT20	144	5456.86	40.91	54.00	-13.09	H	Avg.	Pass	-	Band Edge
	802.11n HT20	144	11440.00	41.67	54.00	-12.33	H	Avg.	Pass	-	Harmonic
45	802.11n HT40	102	5469.20	66.48	68.20	-1.72	V	Peak	Pass	-	Band Edge
	802.11n HT40	102	16530.00	55.28	68.20	-12.92	V	Peak	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
46	802.11n HT40	110	5459.80	41.18	54.00	-12.82	H	Avg.	Pass	-	Band Edge
	802.11n HT40	110	11100.00	41.07	54.00	-12.93	V	Avg.	Pass	-	Harmonic
47	802.11n HT40	134	5727.00	61.20	68.20	-7.00	V	Peak	Pass	-	Band Edge
	802.11n HT40	134	11340.00	41.74	54.00	-12.26	V	Avg.	Pass	-	Harmonic
48	802.11n HT40	142	5442.82	40.67	54.00	-13.33	H	Avg.	Pass	-	Band Edge
	802.11n HT40	142	17130.00	56.30	68.20	-11.90	H	Peak	Pass	-	Harmonic
49	802.11ac VHT80	106	5459.08	51.55	54.00	-2.45	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	106	11060.00	41.21	54.00	-12.79	V	Avg.	Pass	-	Harmonic
50	802.11ac VHT80	122	5459.72	44.56	54.00	-9.44	V	Avg.	Pass	-	Band Edge
	802.11ac VHT80	122	11220.00	41.38	54.00	-12.62	V	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
51	802.11ac VHT80	138	5459.59	41.19	54.00	-12.81	H	Avg.	Pass	-	Band Edge
	802.11ac VHT80	138	11380.00	41.72	54.00	-12.28	H	Avg.	Pass	-	Harmonic
52	802.11ax HE20	100	5465.95	63.46	68.20	-4.74	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	100	16500.00	55.18	68.20	-13.02	V	Peak	Pass	Full RU	Harmonic
53	802.11ax HE20	100	5456.05	48.49	54.00	-5.51	V	Avg.	Pass	Partial RU 26/0	Band Edge
54	802.11ax HE20	100	5465.20	63.87	68.20	-4.33	V	Peak	Pass	Partial RU 52/37	Band Edge
55	802.11ax HE20	100	5467.30	66.44	68.20	-1.76	V	Peak	Pass	Partial RU 106/53	Band Edge
56	802.11ax HE20	116	5447.29	41.32	54.00	-12.68	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	116	11160.00	41.01	54.00	-12.99	V	Avg.	Pass	Full RU	Harmonic
57	802.11ax HE20	140	5725.74	65.33	68.20	-2.87	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	140	11400.00	41.71	54.00	-12.29	V	Avg.	Pass	Full RU	Harmonic

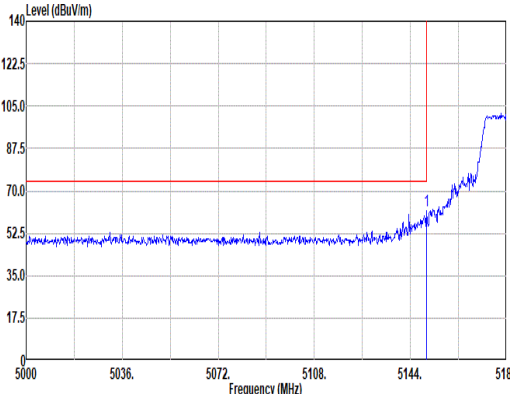
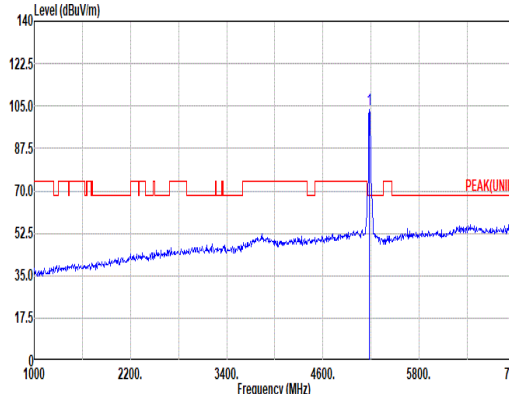
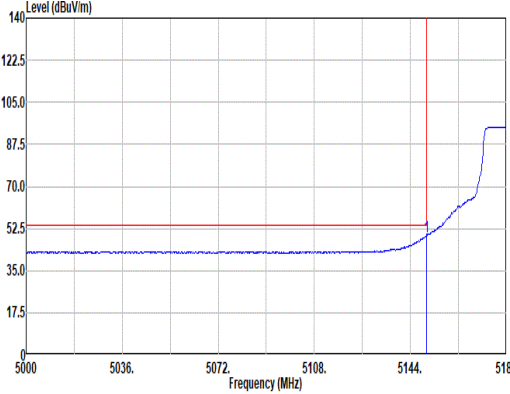
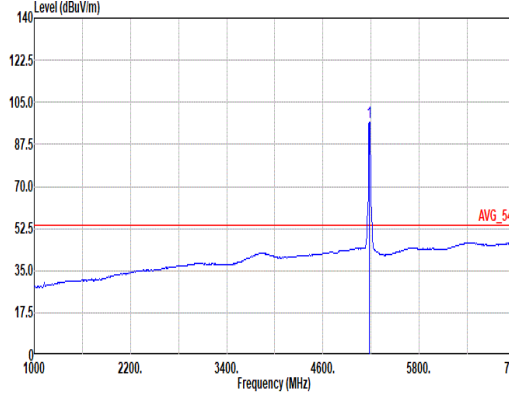


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
58	802.11ax HE20	140	5735.04	65.53	68.20	-2.67	V	Peak	Pass	Partial RU 26/8	Band Edge
59	802.11ax HE20	140	5727.11	63.64	68.20	-4.56	V	Peak	Pass	Partial RU 52/40	Band Edge
60	802.11ax HE20	140	5725.68	64.91	68.20	-3.29	V	Peak	Pass	Partial RU 106/54	Band Edge
61	802.11ax HE20	144	5451.01	41.19	54.00	-12.81	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	144	11440.00	40.84	54.00	-13.16	V	Avg.	Pass	Full RU	Harmonic
62	802.11ax HE40	102	5469.84	66.47	68.20	-1.73	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	102	16530.00	55.08	68.20	-13.12	V	Peak	Pass	Full RU	Harmonic
63	802.11ax HE40	110	5460.00	42.60	54.00	-11.40	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	110	11100.00	40.96	54.00	-13.04	H	Avg.	Pass	Full RU	Harmonic
64	802.11ax HE40	134	5725.01	62.59	68.20	-5.61	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	134	11340.00	41.40	54.00	-12.60	V	Avg.	Pass	Full RU	Harmonic

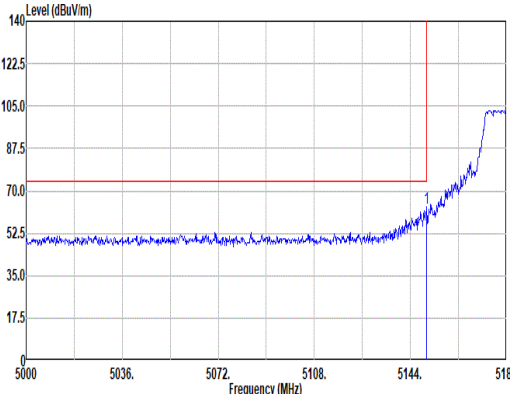
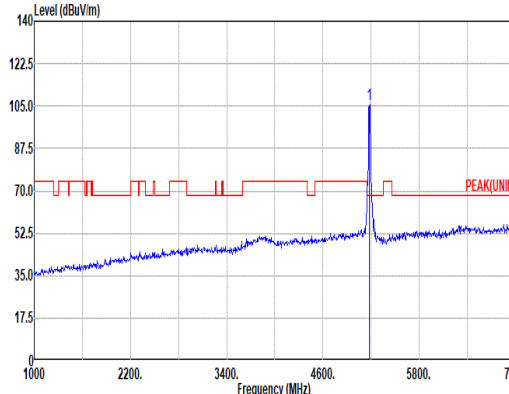
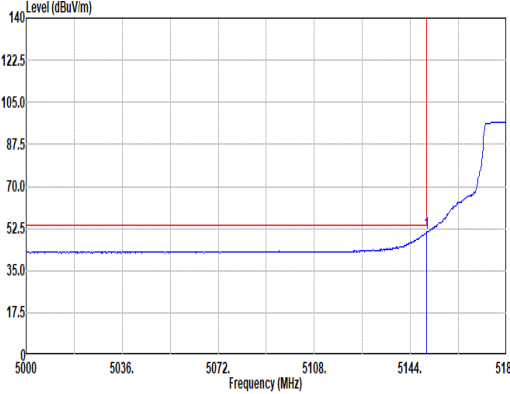
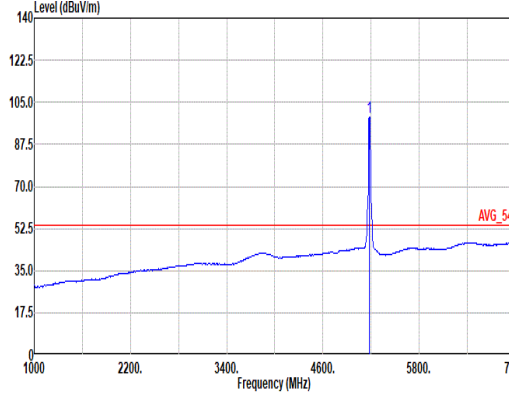


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
65	802.11ax HE40	142	5458.81	40.95	54.00	-13.05	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	142	11420.00	41.64	54.00	-12.36	V	Avg.	Pass	Full RU	Harmonic
66	802.11ax HE80	106	5459.62	51.24	54.00	-2.76	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	106	11060.00	41.10	54.00	-12.90	V	Avg.	Pass	Full RU	Harmonic
67	802.11ax HE80	122	5459.46	45.08	54.00	-8.92	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	122	11220.00	41.35	54.00	-12.65	V	Avg.	Pass	Full RU	Harmonic
68	802.11ax HE80	138	5866.60	55.83	68.20	-12.37	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE80	138	11380.00	41.78	54.00	-12.22	V	Avg.	Pass	Full RU	Harmonic
69	802.11ax HE20	136	5725.05	61.31	68.20	-6.89	V	Peak	Pass	Full RU	Band Edge
70	802.11a	100	33.88	33.86	40.00	-6.14	V	Peak	Pass	-	LF
71	802.11a	100	39381.22	38.24	54.00	-15.76	V	Avg.	Pass	-	SHF

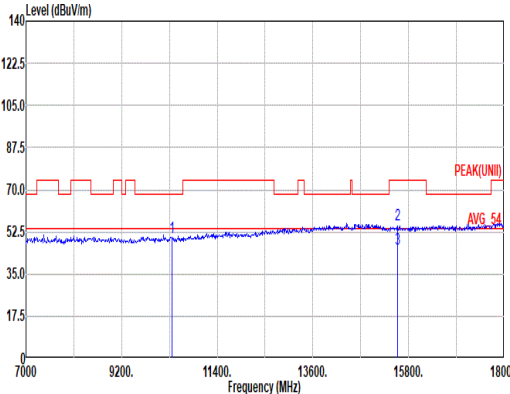
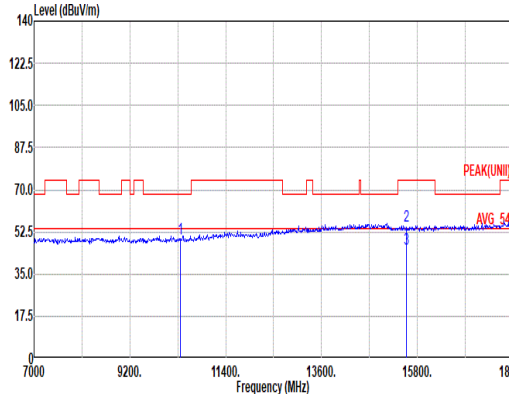


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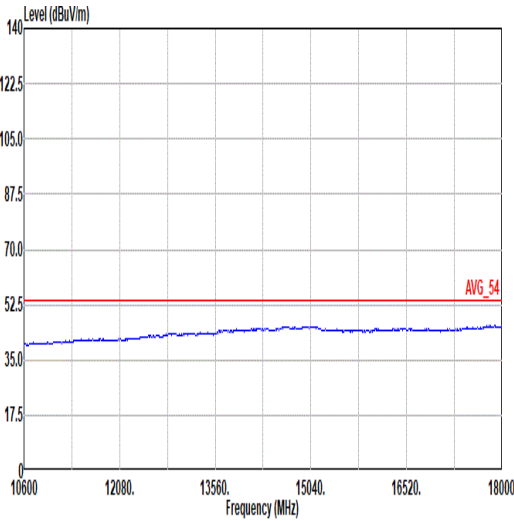
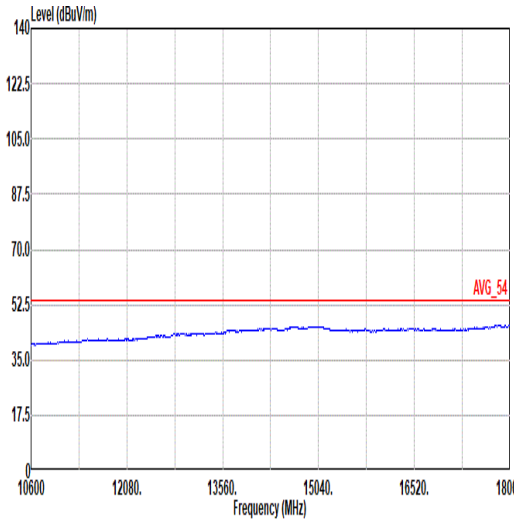


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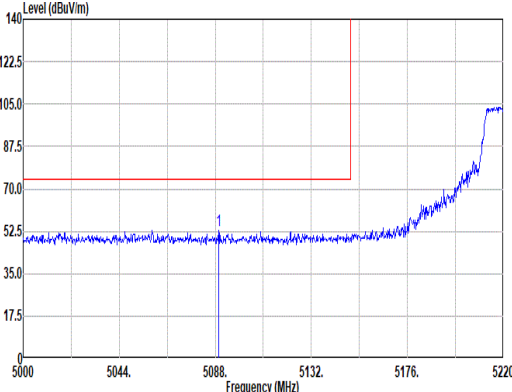
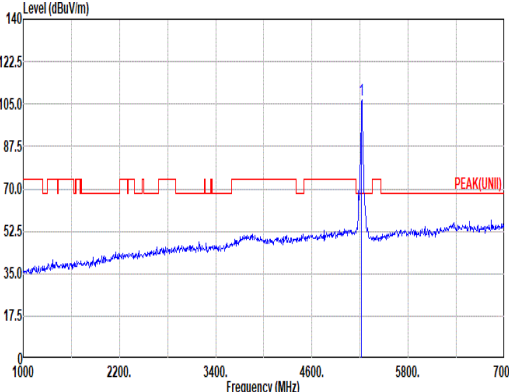
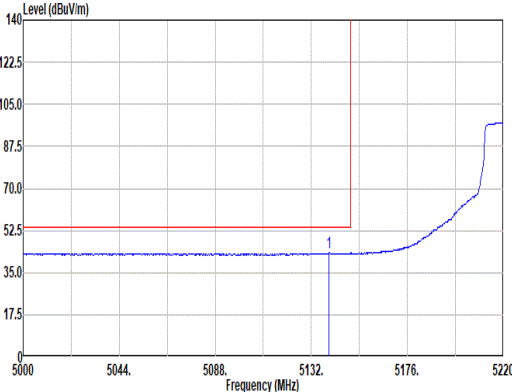
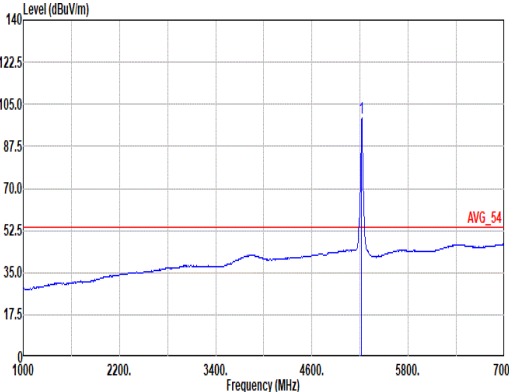


Mode	1																																																																																																																																							
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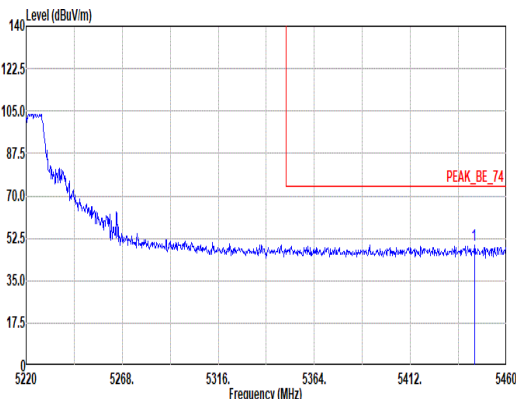
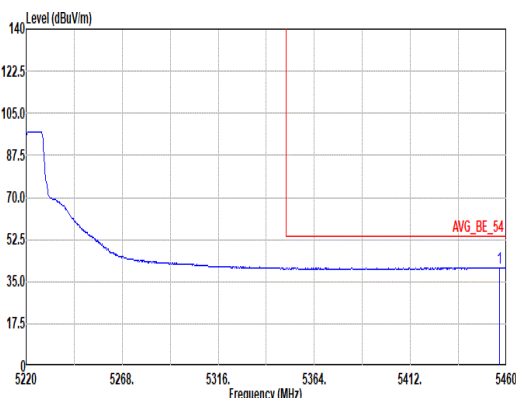


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Pol.	Horizontal	Vertical
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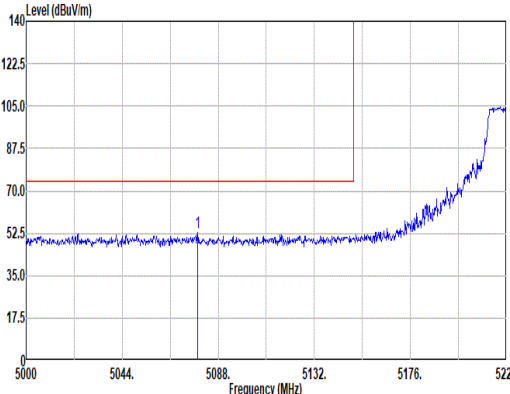
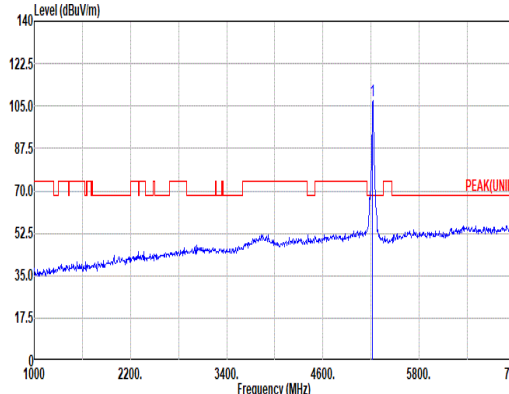
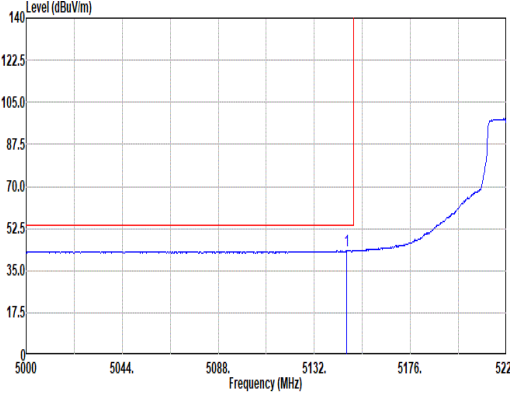
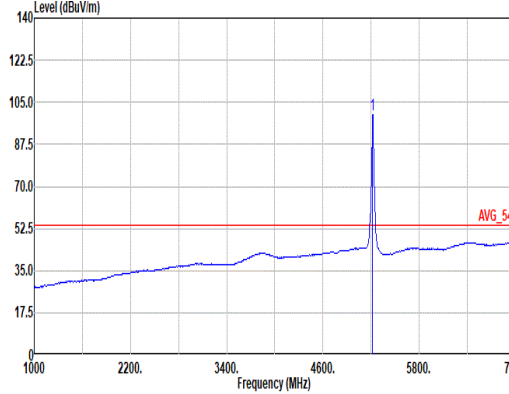


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	Band Edge - L																																																										
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Pol.	Horizontal						Fundamental																																																				
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	Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz SMT:Auto <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="3">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>5140.14</td><td>43.13</td><td>54.00</td><td>-10.87</td><td>29.60</td><td>32.80</td><td>10.56</td><td>33.54</td><td>3.71</td><td>104</td><td>186 Average</td></tr></tbody></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	5140.14	43.13	54.00	-10.87	29.60	32.80	10.56	33.54	3.71	104
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																		
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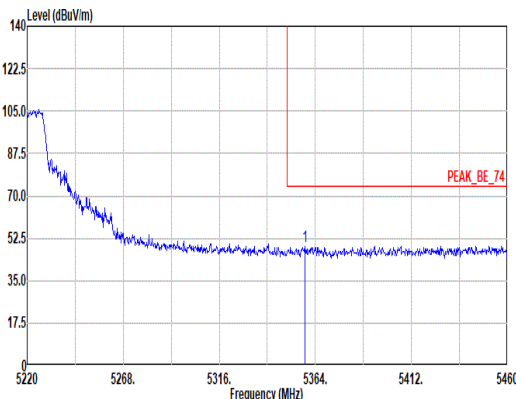
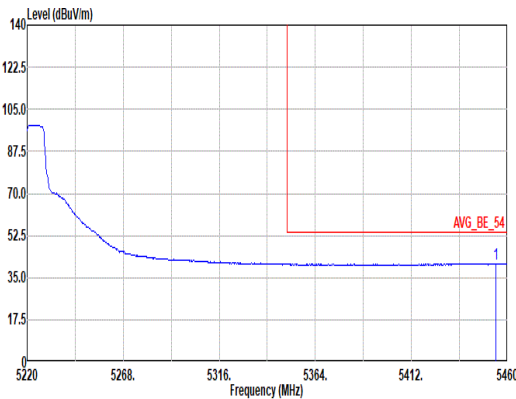


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	Band Edge - R																																												
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz																																												
Pol.	Horizontal	Fundamental																																											
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5443.92</td><td>49.58</td><td>74.00</td><td>-24.42</td><td>36.49</td><td>32.69</td><td>10.89</td><td>34.30</td><td>3.81</td><td>104</td><td>186 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5443.92	49.58	74.00	-24.42	36.49	32.69	10.89	34.30	3.81	104	186 Peak	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
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Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5456.64</td><td>40.89</td><td>54.00</td><td>-13.11</td><td>27.77</td><td>32.73</td><td>10.91</td><td>34.33</td><td>3.81</td><td>104</td><td>186 Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5456.64	40.89	54.00	-13.11	27.77	32.73	10.91	34.33	3.81	104	186 Average	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																					
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																			
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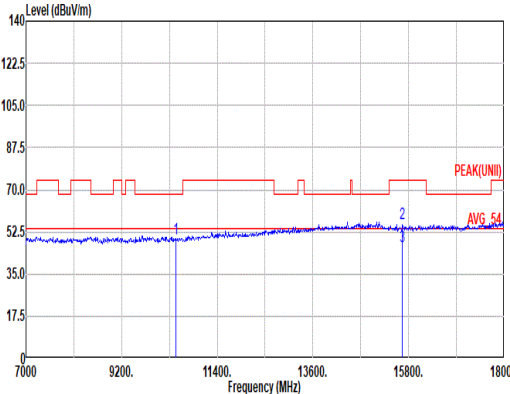
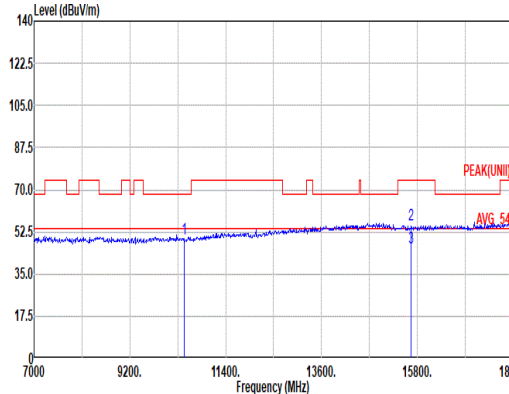


Mode	2																																																						
	Band Edge - L																																																						
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz																																																						
Pol.	Vertical																																																						
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5078.54</td><td>52.61</td><td>74.00</td><td>-21.39</td><td>39.01</td><td>32.80</td><td>10.51</td><td>33.39</td><td>3.68</td><td>300 214 Peak</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5078.54	52.61	74.00	-21.39	39.01	32.80	10.51	33.39	3.68	300 214 Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																													
1	5078.54	52.61	74.00	-21.39	39.01	32.80	10.51	33.39	3.68	300 214 Peak																																													
Fundamental	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5220.00</td><td>107.27</td><td>-----</td><td>-----</td><td>93.95</td><td>32.70</td><td>10.63</td><td>33.75</td><td>3.74</td><td>300 214 Peak</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5220.00	107.27	-----	-----	93.95	32.70	10.63	33.75	3.74	300 214 Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																													
1	5220.00	107.27	-----	-----	93.95	32.70	10.63	33.75	3.74	300 214 Peak																																													
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5146.74</td><td>43.32</td><td>54.00</td><td>-10.68</td><td>29.81</td><td>32.80</td><td>10.56</td><td>33.56</td><td>3.71</td><td>300 214 Average</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5146.74	43.32	54.00	-10.68	29.81	32.80	10.56	33.56	3.71	300 214 Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																													
1	5146.74	43.32	54.00	-10.68	29.81	32.80	10.56	33.56	3.71	300 214 Average																																													
Ave	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:0.750kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5220.00</td><td>99.91</td><td>-----</td><td>-----</td><td>86.59</td><td>32.70</td><td>10.63</td><td>33.75</td><td>3.74</td><td>300 214 Average</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5220.00	99.91	-----	-----	86.59	32.70	10.63	33.75	3.74	300 214 Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																															
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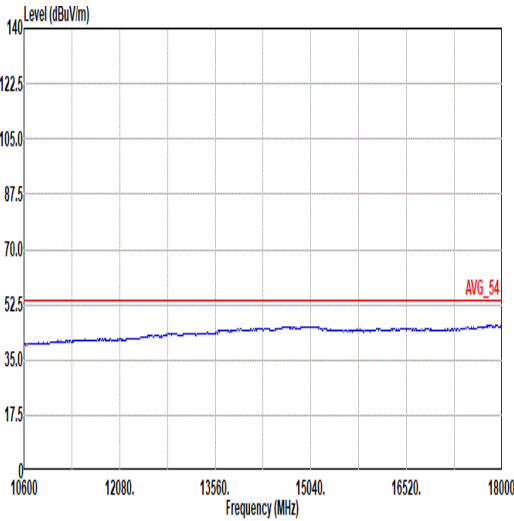
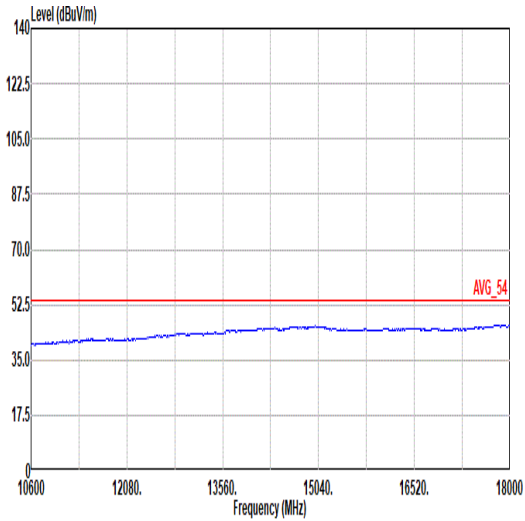


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	Band Edge - R																																												
	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz																																												
Pol.	Vertical	Fundamental																																											
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5358.72</td><td>49.31</td><td>74.00</td><td>-24.69</td><td>36.26</td><td>32.60</td><td>10.77</td><td>34.09</td><td>3.77</td><td>300</td><td>214 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5358.72	49.31	74.00	-24.69	36.26	32.60	10.77	34.09	3.77	300	214 Peak	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																					
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																				
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																					
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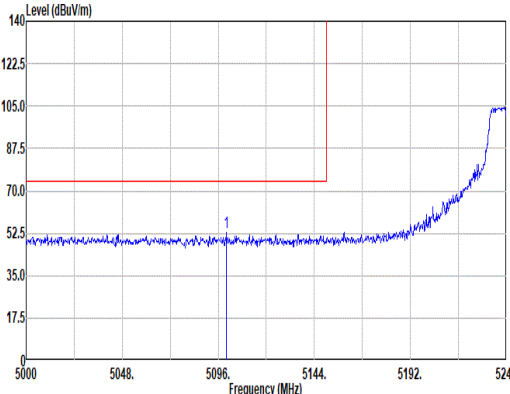
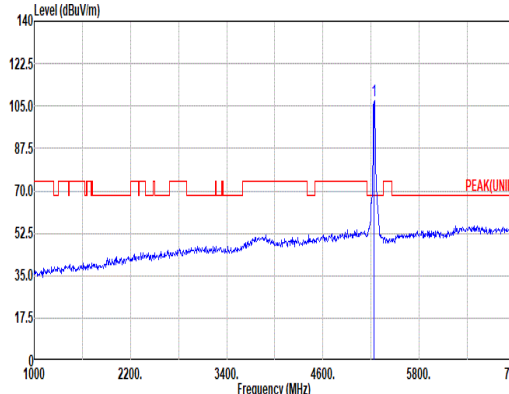
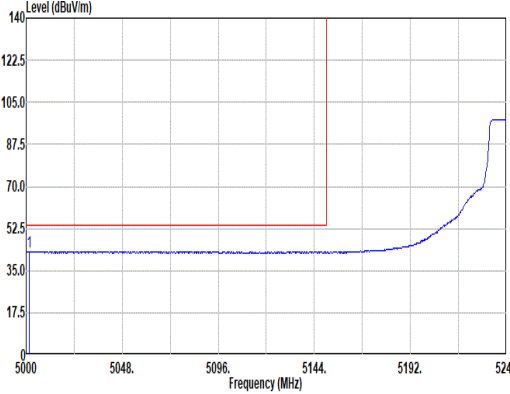
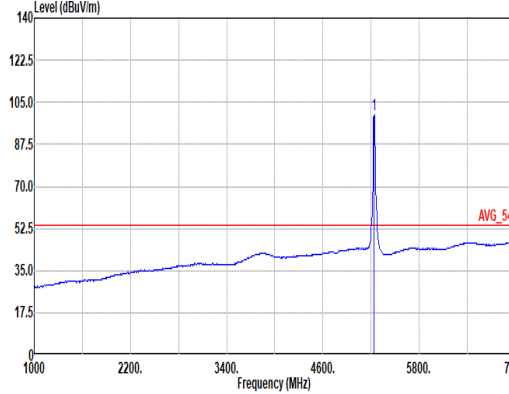


Mode	2																																																																																																																																									
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	U-NII-1_5.15-5.25_802.11a_CH44_5220MHz																																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																																								
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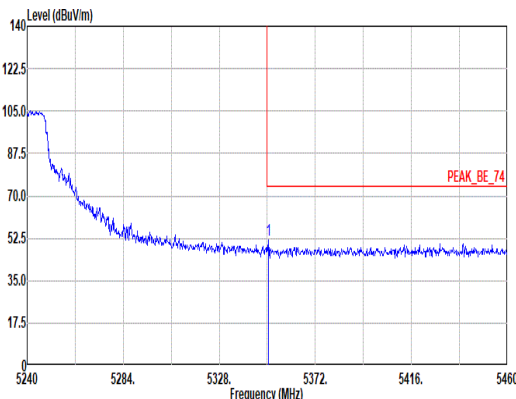
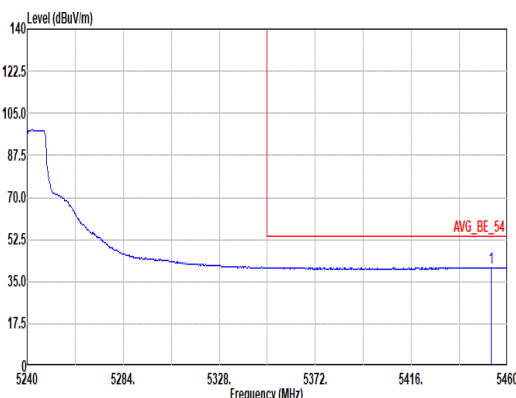


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Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL

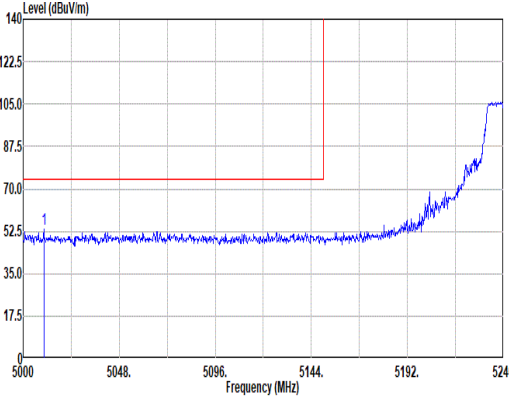
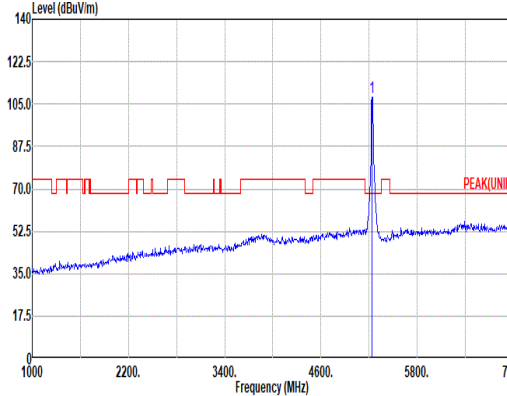
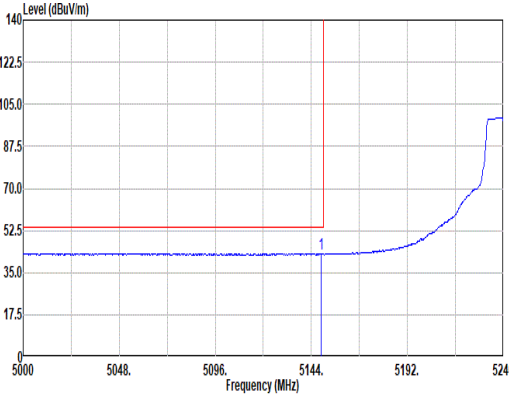
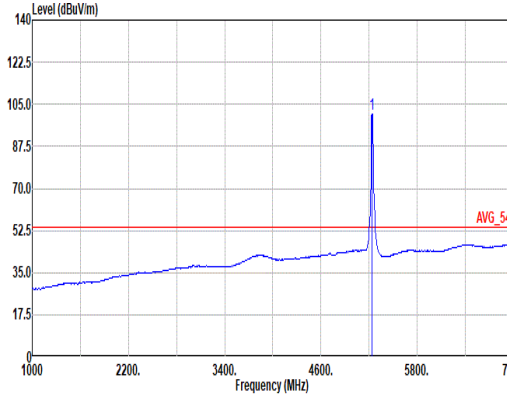


Mode	3																																																																																																																						
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Pol.	Horizontal						Fundamental																																																																																																																
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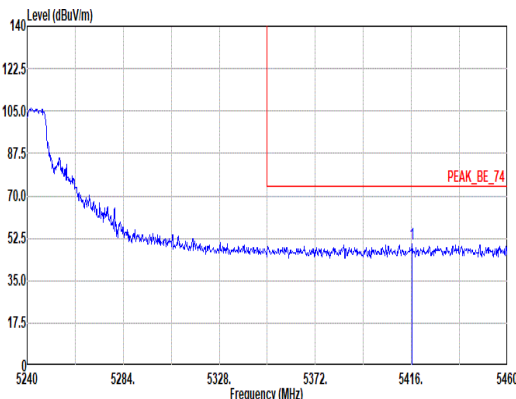
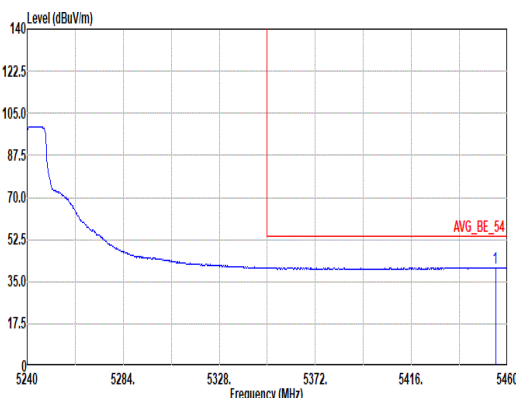


Mode	3																																										
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Pol.	Horizontal	Fundamental																																									
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5350.44</td><td>51.69</td><td>74.00</td><td>-22.31</td><td>38.63</td><td>32.60</td><td>10.76</td><td>34.07</td><td>3.77</td><td>100</td><td>188</td><td>Peak</td></tr></table>		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	1	5350.44	51.69	74.00	-22.31	38.63	32.60	10.76	34.07	3.77	100	188	Peak	Blank
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																														
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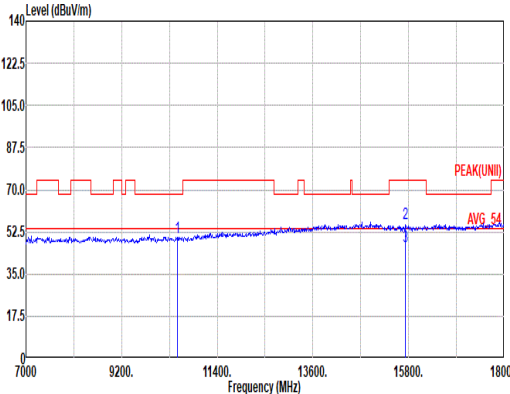
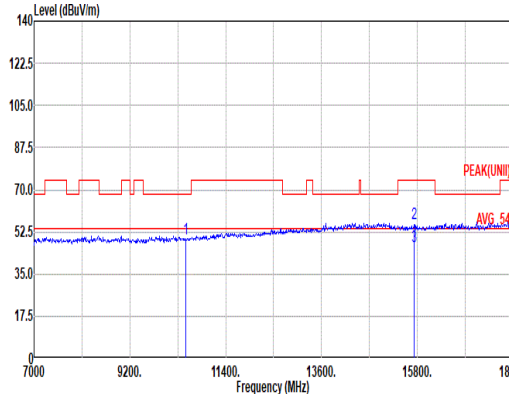


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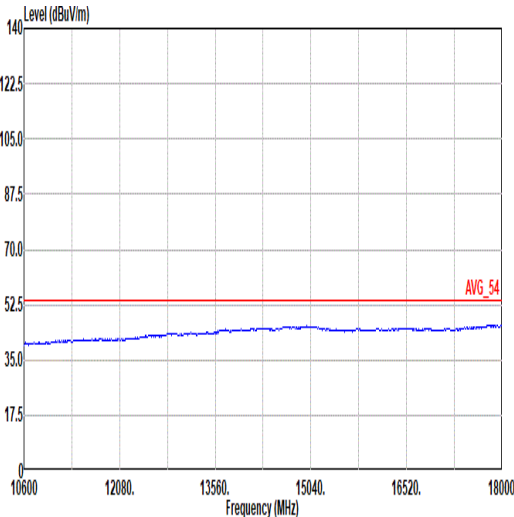
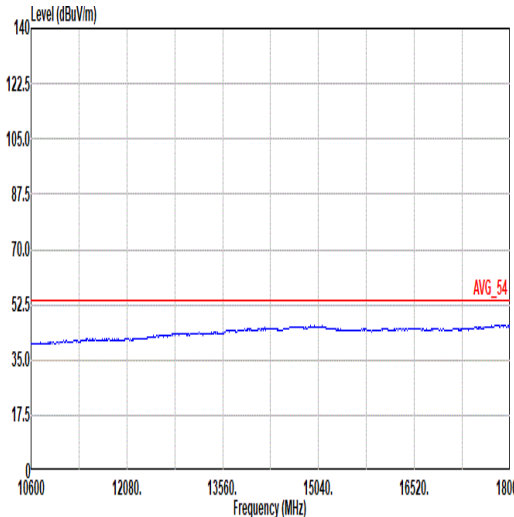


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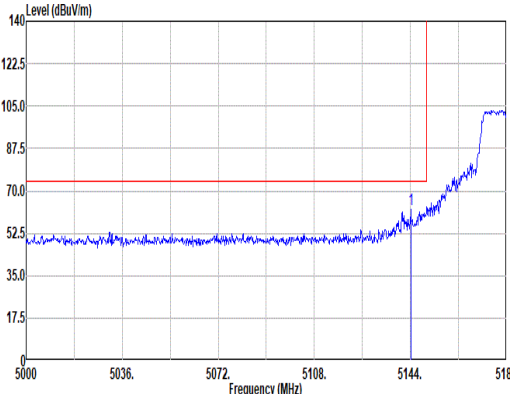
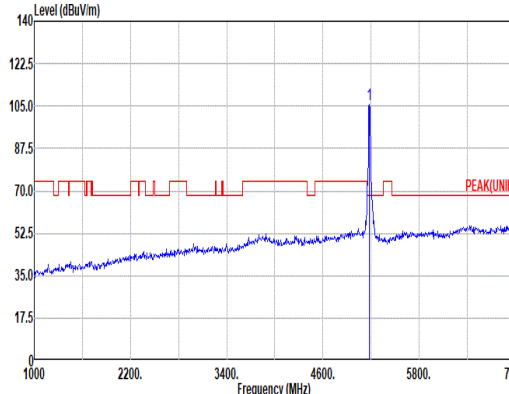
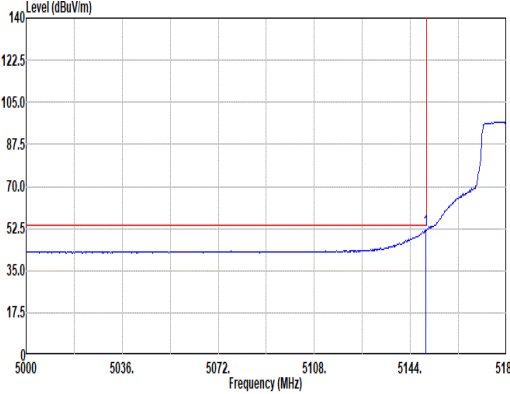
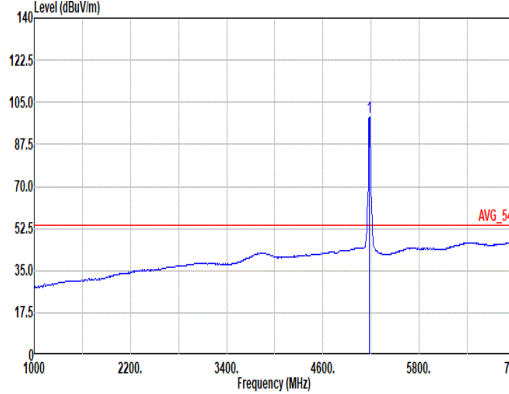


Mode	3	
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Pol.	Horizontal	Vertical
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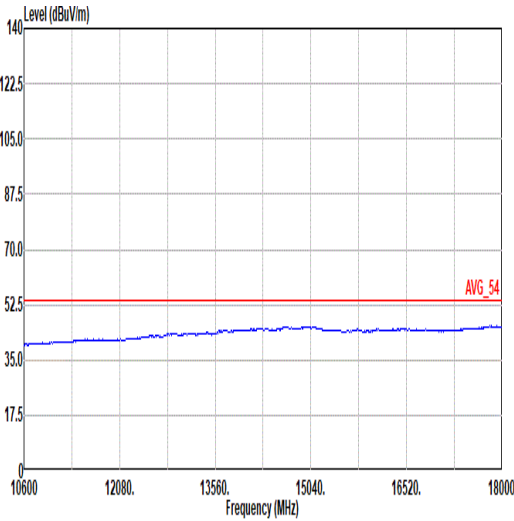
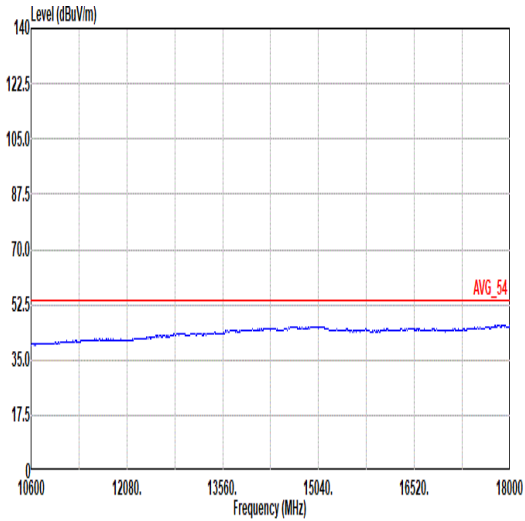


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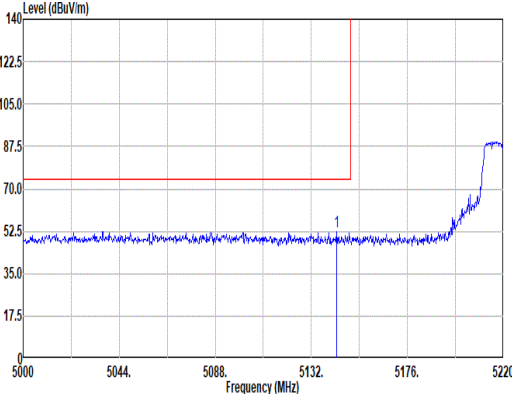
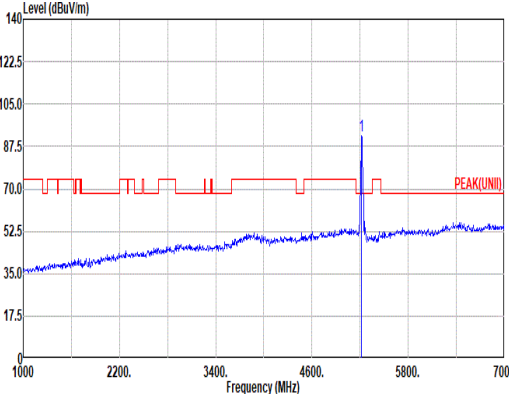
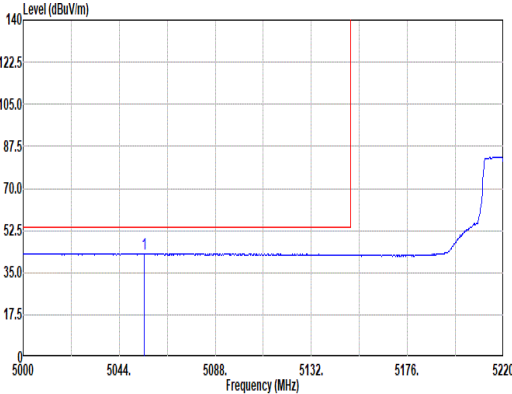
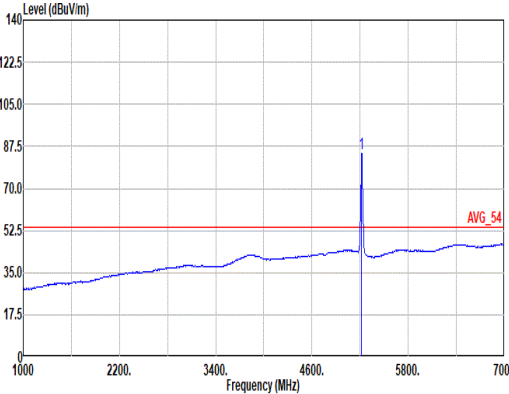


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Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL

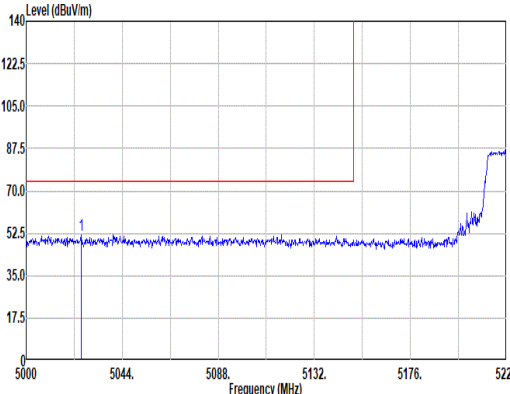
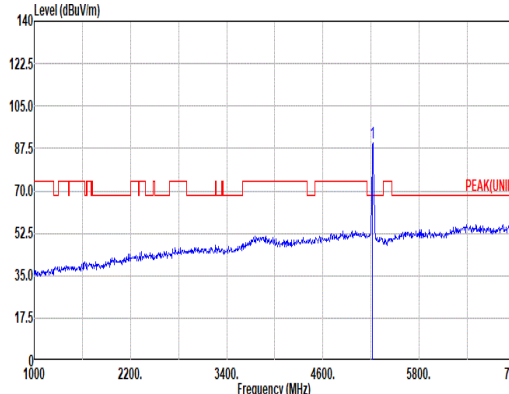
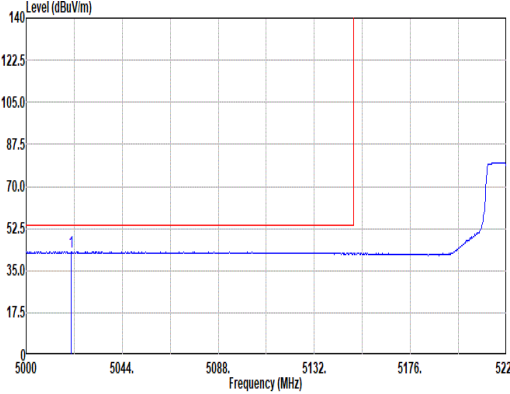
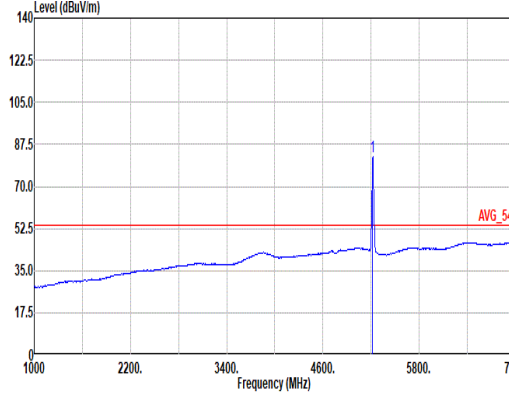


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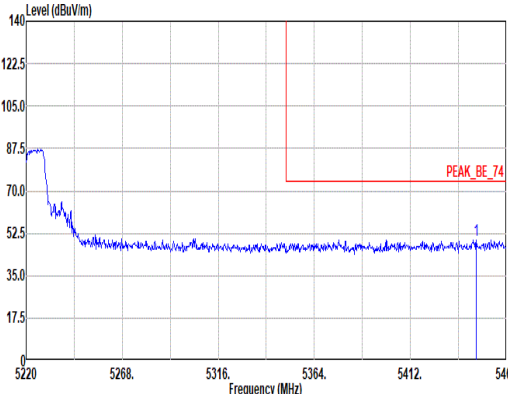
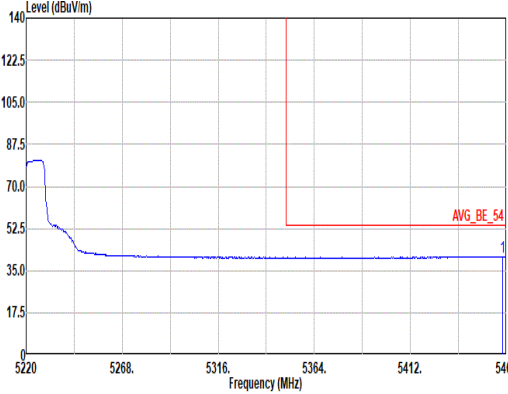


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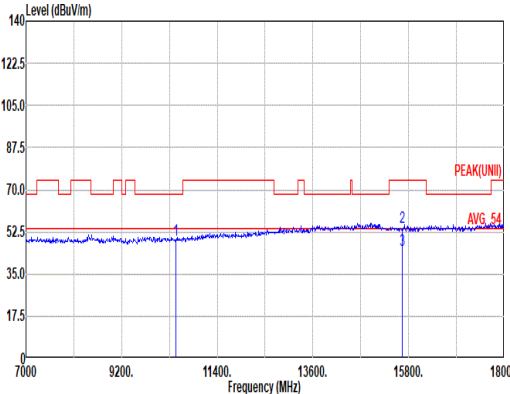
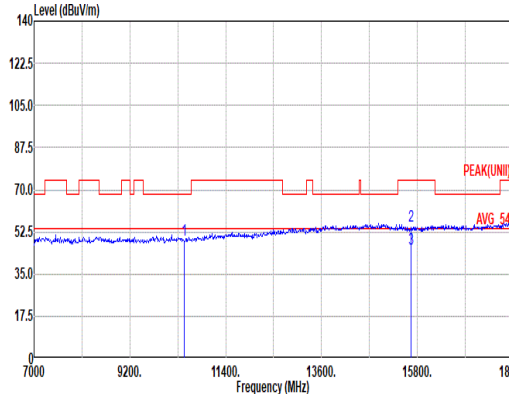


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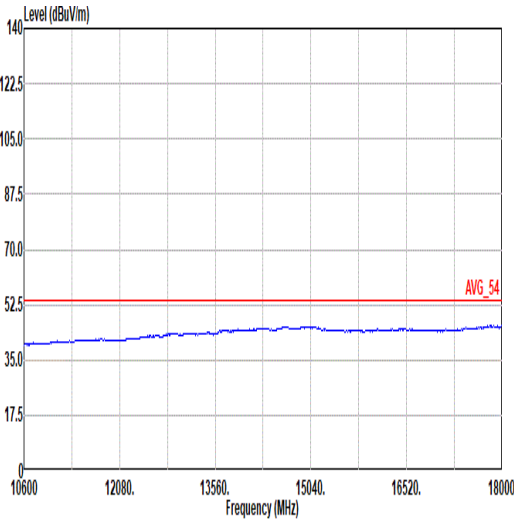
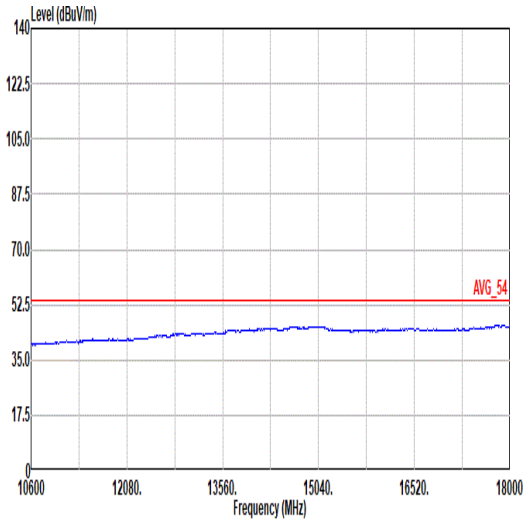


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	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz																																										
Pol.	Vertical	Fundamental																																									
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5444.88</td><td>49.56</td><td>74.00</td><td>-24.44</td><td>36.47</td><td>32.69</td><td>10.89</td><td>34.30</td><td>3.81</td><td>100</td><td>360</td><td>Peak</td></tr></table>		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	1	5444.88	49.56	74.00	-24.44	36.47	32.69	10.89	34.30	3.81	100	360	Peak	Blank
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																														
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg																														
1	5444.88	49.56	74.00	-24.44	36.47	32.69	10.89	34.30	3.81	100	360	Peak																															
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL : RBW:1000.000kHz VBW:0.020kHz SMT:Auto <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5450.00</td><td>40.90</td><td>54.00</td><td>-13.10</td><td>27.79</td><td>32.73</td><td>10.91</td><td>34.34</td><td>3.81</td><td>100</td><td>360</td><td>Average</td></tr></table>		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	1	5450.00	40.90	54.00	-13.10	27.79	32.73	10.91	34.34	3.81	100	360	Average	Blank
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																														
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg																														
1	5450.00	40.90	54.00	-13.10	27.79	32.73	10.91	34.34	3.81	100	360	Average																															



Mode	5																																																																																																																																							
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	U-NII-1_5.15-5.25_802.11n HT20_CH44_5220MHz																																																																																																																																							
Pol.	Horizontal	Vertical																																																																																																																																						
Peak Avg	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>10440.00</td><td>49.38</td><td>68.20</td><td>-18.82</td><td>34.02</td><td>37.32</td><td>14.94</td><td>39.13</td><td>2.23</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>15660.00</td><td>54.57</td><td>74.00</td><td>-19.43</td><td>38.06</td><td>40.87</td><td>18.42</td><td>45.31</td><td>2.53</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>15660.00</td><td>44.79</td><td>54.00</td><td>-9.21</td><td>28.38</td><td>40.76</td><td>18.41</td><td>45.29</td><td>2.53</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10440.00	49.38	68.20	-18.82	34.02	37.32	14.94	39.13	2.23	--	Peak	2	15660.00	54.57	74.00	-19.43	38.06	40.87	18.42	45.31	2.53	--	Peak	3	15660.00	44.79	54.00	-9.21	28.38	40.76	18.41	45.29	2.53	--	Average	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_240620 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>10440.00</td><td>49.24</td><td>68.20</td><td>-18.96</td><td>33.88</td><td>37.32</td><td>14.94</td><td>39.13</td><td>2.23</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>15660.00</td><td>55.12</td><td>74.00</td><td>-18.88</td><td>38.61</td><td>40.87</td><td>18.42</td><td>45.31</td><td>2.53</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>15660.00</td><td>45.34</td><td>54.00</td><td>-8.66</td><td>28.93</td><td>40.76</td><td>18.41</td><td>45.29</td><td>2.53</td><td>--</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10440.00	49.24	68.20	-18.96	33.88	37.32	14.94	39.13	2.23	--	Peak	2	15660.00	55.12	74.00	-18.88	38.61	40.87	18.42	45.31	2.53	--	Peak	3	15660.00	45.34	54.00	-8.66	28.93	40.76	18.41	45.29	2.53	--	Average
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																														
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1	10440.00	49.38	68.20	-18.82	34.02	37.32	14.94	39.13	2.23	--	Peak																																																																																																																													
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Mode	5	
	Harmonic	
	U-NII-1 5.15-5.25_802.11n HT20_CH44_5220MHz	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_240620 VERTICAL