



FCC RADIO TEST REPORT

FCC ID : BEJNT-15U50T
Equipment : Notebook Computer
Brand Name : LG
Model Name : 15U50T,15UD50T,15UG50T,15UB50T,15UT50T>(* can be 0 to 9 or A to Z or blank denoting buyer request)
Applicant : LG Electronics USA, Inc.
 111 Sylvan Avenue North Building Englewood Cliffs, NJ 07632 United States
Manufacturer : LG ELECTRONICS INC.
Standard : FCC Part 15 Subpart E §15.407

The product was received on Aug. 05, 2024 and testing was performed from Aug. 13, 2024 to Sep. 27, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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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	2.47 dB under the limit at 5149.10 MHz
3.5	15.207	AC Conducted Emission	Pass	9.01 dB under the limit at 27.84 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sheng Kuo
Report Producer: Mila Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax.	
Antenna Type WLAN: <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna Bluetooth: PIFA Antenna	
Sample 1	EUT with High-Tek Electronics Co., Ltd Antenna
Sample 2	EUT with Pulse Antenna
Integrated WLAN module	Brand Name: Intel® Wi-Fi 6 AX203 Model Name: AX203NGW

Antenna Information (High-Tek Electronics Co., Ltd Antenna)		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: -1.40 Ant. 2: 1.00
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: -0.51 Ant. 2: -0.15
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 0.26 Ant. 2: 0.15

Antenna Information (Pulse Antenna)		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 1.32 Ant. 2: 1.23
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 0.76 Ant. 2: 1.03
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 0.74 Ant. 2: 1.90

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

1.1.1 Antenna Directional Gain

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1 / 20} + 10^{G_2 / 20} + \dots + 10^{G_N / 20})^2 / N_{ANT}]$ dBi

Where G_1, G_2, \dots, G_N denote single antenna gain.

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	1.32	1.23	1.32	4.29	0.00	0.00
Band II	0.76	1.03	1.03	3.91	0.00	0.00
Band III	0.74	1.90	1.90	4.35	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1}= 1.32$ dBi; $G_{ANT2}=1.23$ dBi

Directional gain of power measurement = $\max(1.32, 1.23) + 0 = 1.32$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(1.32 \text{ dBi} / 20)} + 10^{(1.23 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 4.29 dBi

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



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. 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, 03CH16-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).
- 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)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

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-tone RU.

This report references the test results from module ID: PD9AX203NG module report.

Spot-check tests are based on the worst-case modulation and channel conditions for each frequency range, as detailed in the original module report., verify the results and record them in the report.

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

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

MIMO Mode

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Monitor + Hard Disk (USB Type A) + Hard Disk (USB Type C) + IPod + Earphone for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Sample 2.	



<Ant. 1>

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	-	60	116
H	High	-	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	-	60	116
H	High	-	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	-	54	102
M	Middle	-	-	110
H	High	46	62	134

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122

<Ant. 2>

Ch. #		Band I : 5150-5250 MHz
		802.11a
L	Low	-
M	Middle	44
H	High	48

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz
		802.11ax HE20	802.11ax HE20
L	Low	36	-
M	Middle	44	-
H	High	48	64



Ch. #		Band I : 5150-5250 MHz	
		802.11ax HE40	
L	Low	38	
M	Middle	-	
H	High	-	

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz
		802.11ax HE80	802.11ax HE80
L	Low	-	-
M	Middle	42	58
H	High	-	-

MIMO<Ant. 1+2>

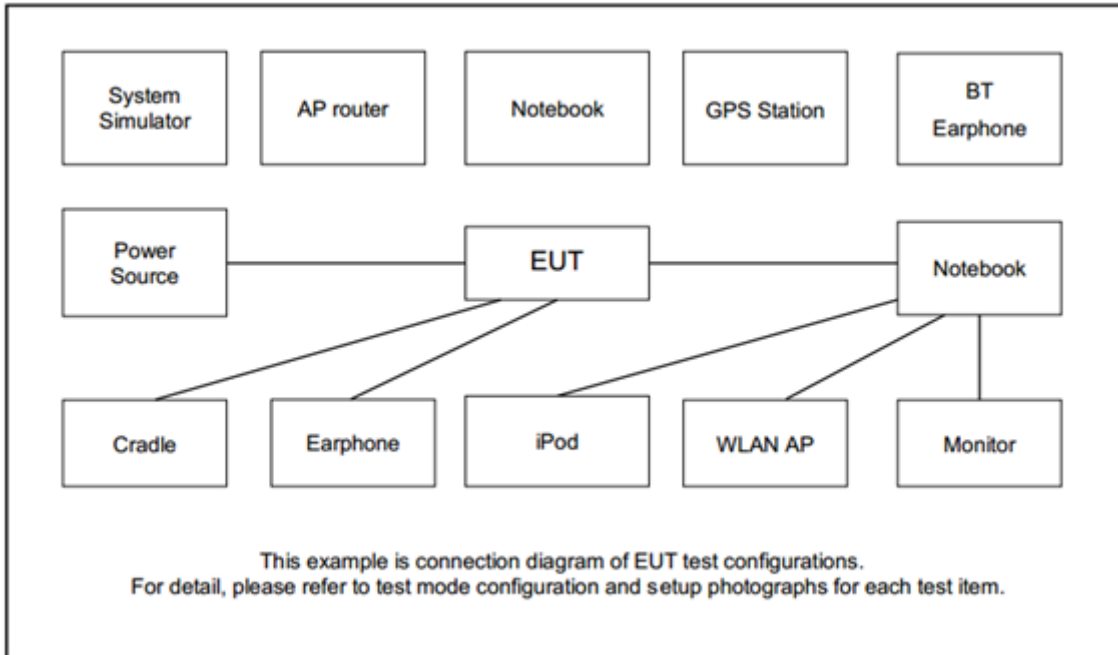
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded,1.8m
3.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
4.	iPod	Apple	A1199	DoC	Shielded, 1.0m	N/A
5.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded,1.8m	N/A
6.	Monitor	AOC	U2879VF	FCC DoC	Shielded, 1m	N/A
7.	USB HD	ADATA	HV620S-1T	FCC DoC	Shielded, 1m	N/A
8.	USB HD	Transcend	TS1TSJ25A3W	FCC DoC	Shielded, 0.5m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “DRTU.06643.23.60.0” was installed in EUT 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 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

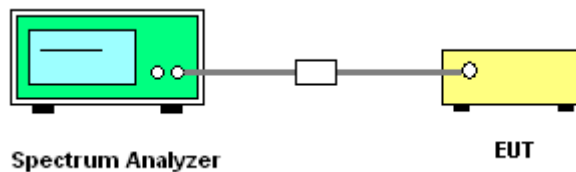
3.1.2 Measuring Instruments

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.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

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.

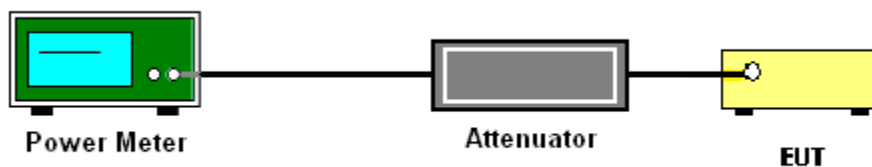
3.2.3 Test Procedures

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<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.

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-2

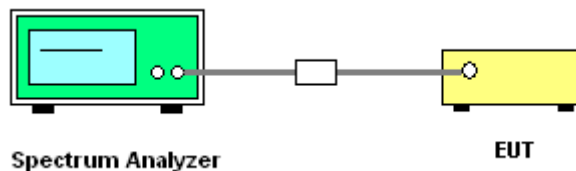
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 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.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

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.

(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.

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



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

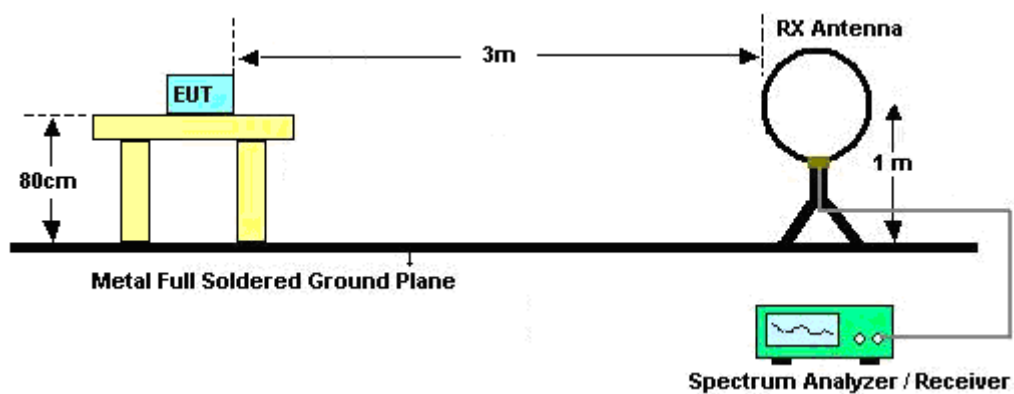
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

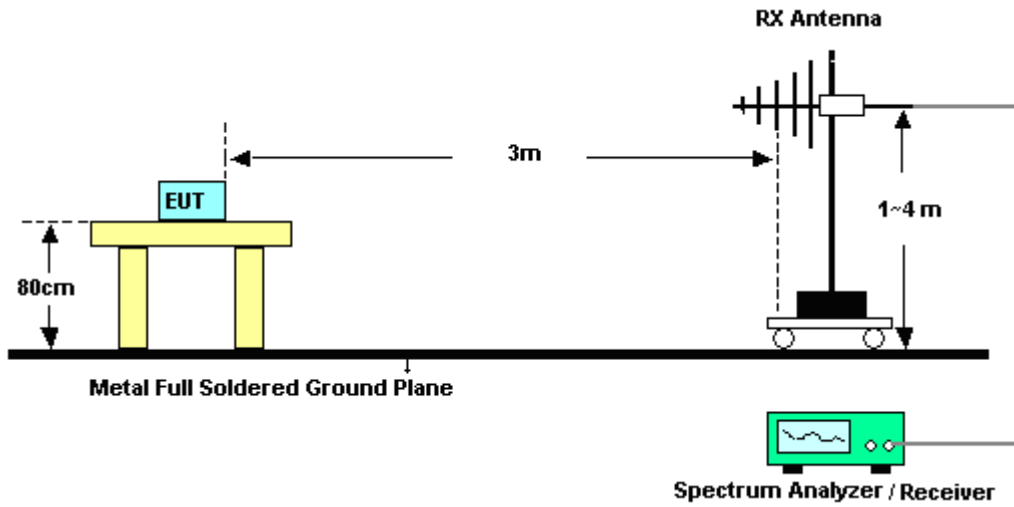
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

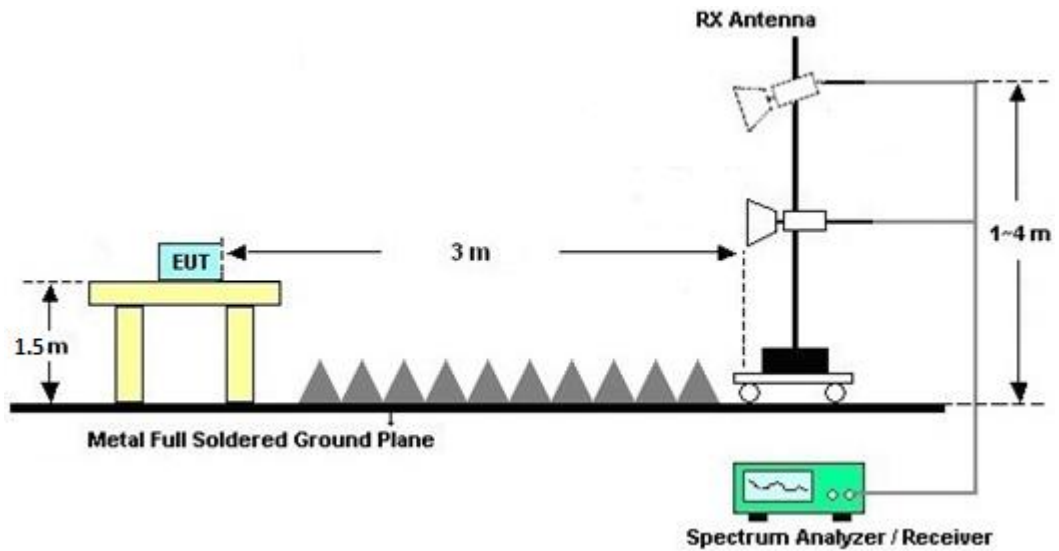
For radiated emissions below 30MHz



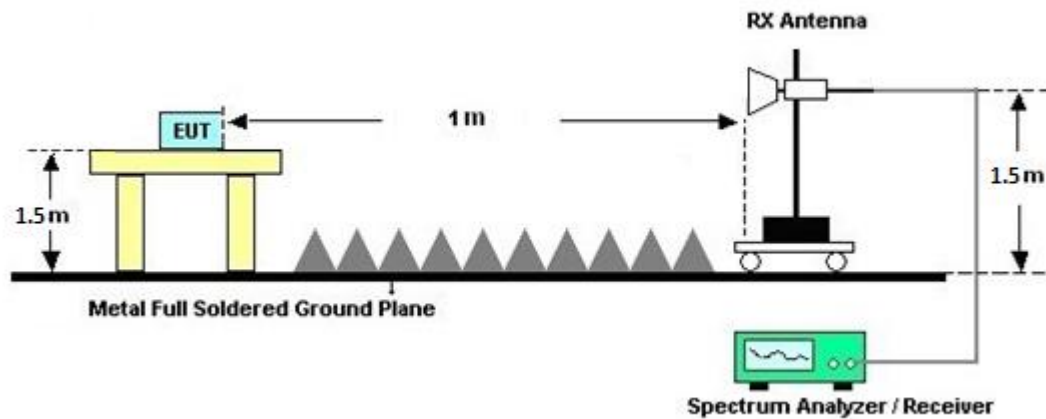
For radiated emissions from 30MHz to 1GHz



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.

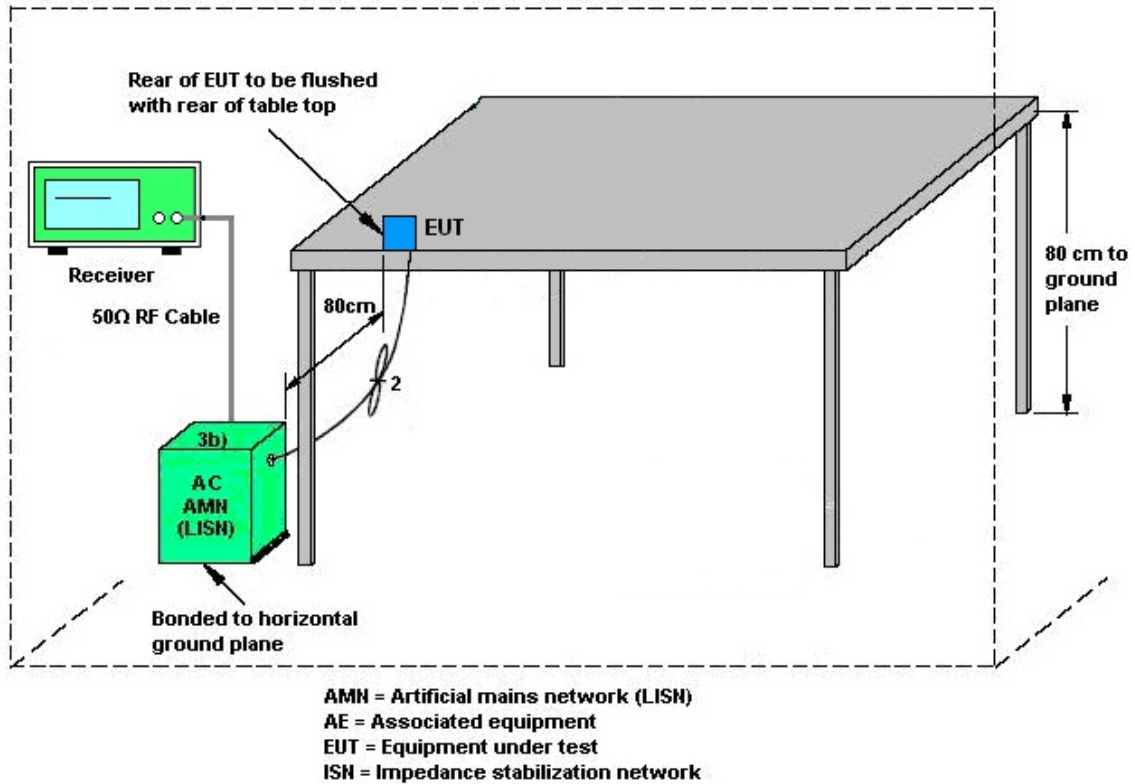
3.5.2 Measuring Instruments

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

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Aug. 13, 2024~ Sep. 19, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15100041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Aug. 13, 2024~ Sep. 19, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Dec. 19, 2023	Aug. 13, 2024~ Sep. 19, 2024	Dec. 18, 2024	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Aug. 13, 2024~ Sep. 19, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240513	N/A	Conducted Other Test Item	N/A	Aug. 13, 2024~ Sep. 19, 2024	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Sep. 09, 2024~ Sep. 27, 2024	Feb. 22, 2025	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1223	18GHz-40GHz	Jun. 24, 2024	Sep. 09, 2024~ Sep. 27, 2024	Jun. 23, 2025	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 04, 2023	Sep. 09, 2024~ Sep. 27, 2024	Dec. 03, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N- 06	47020 & 06	30MHz to 1GHz	Oct. 07, 2023	Sep. 09, 2024~ Sep. 27, 2024	Oct. 06, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Sep. 09, 2024~ Sep. 27, 2024	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Sep. 09, 2024~ Sep. 27, 2024	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 07, 2023	Sep. 09, 2024~ Sep. 27, 2024	Dec. 06, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 25, 2023	Sep. 09, 2024~ Sep. 27, 2024	Dec. 24, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Sep. 09, 2024~ Sep. 27, 2024	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-153 0-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 15, 2024	Sep. 09, 2024~ Sep. 27, 2024	Jan. 14, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700- 3000-18000-60 ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Sep. 09, 2024~ Sep. 27, 2024	Jun. 27, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5- 6750-18000-40 ST	SN27	6.75GHz High Pass Filter	Nov. 13, 2023	Sep. 09, 2024~ Sep. 27, 2024	Nov. 12, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Sep. 09, 2024~ Sep. 27, 2024	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 07, 2024	Sep. 09, 2024~ Sep. 27, 2024	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Jan. 02, 2024	Sep. 09, 2024~ Sep. 27, 2024	Jan. 01, 2025	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Sep. 09, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 09, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 09, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 09, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Aug. 13, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 13, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2023	Aug. 13, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Aug. 13, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Aug. 13, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Aug. 13, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Aug. 13, 2024	Sep. 19, 2024	Conduction (CO07-HY)



5 Measurement Uncertainty

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
-------------------------------------------------------------------------	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
-------------------------------------------------------------------------	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
-------------------------------------------------------------------------	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
-------------------------------------------------------------------------	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kevin Xiao	Temperature:	21~25	°C
Test Date:	2024/08/13~2024/09/19	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Chain B (Aux.) and Ant. 2 means Chain A (Main).

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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	17.01	16.78	24.73	23.50	-	-	22.31	22.25	
11a	6Mbps	1	44	5220	16.90	16.89	23.91	24.22	-	-	22.28	22.28	-
11a	6Mbps	1	48	5240	17.00	16.89	23.84	23.94	-	-	22.30	22.28	

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 (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	18.50	17.80		24.00	24.00	1.32	1.23		Pass
11a	6Mbps	1	44	5220	20.30	20.40	-	24.00	24.00	1.32	1.23	-	Pass
11a	6Mbps	1	48	5240	20.20	20.30		24.00	24.00	1.32	1.23		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna														
Mod.	Data Rate	N _{rx}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.07	0.08	7.53	7.18	-	11.00	11.00	1.32	1.23	Pass
11a	6Mbps	1	44	5220	0.07	0.08	9.42	9.19	-	11.00	11.00	1.32	1.23	Pass
11a	6Mbps	1	48	5240	0.07	0.08	9.26	9.21	-	11.00	11.00	1.32	1.23	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.64	17.41	28.59	26.50	23.46	23.41	29.46	29.41	23.98	23.98	-
11a	6Mbps	1	60	5300	17.56	17.14	27.02	25.41	23.45	23.34	29.45	29.34	23.98	23.98	
11a	6Mbps	1	64	5320	16.80	16.82	24.03	23.36	23.25	23.26	29.25	29.26	23.98	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	21.10	20.90	-	23.98	23.98	0.76	1.03	30	Pass
11a	6Mbps	1	60	5300	21.10	20.80		23.98	23.98	0.76	1.03	30	Pass
11a	6Mbps	1	64	5320	17.50	17.40		23.98	23.98	0.76	1.03	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna														
Mod.	Data Rate	N _{rx}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.07	0.08	10.16	9.75	-	11.00	11.00	0.76	1.03	Pass
11a	6Mbps	1	60	5300	0.07	0.08	10.37	9.85	-	11.00	11.00	0.76	1.03	Pass
11a	6Mbps	1	64	5320	0.07	0.08	6.58	6.51	-	11.00	11.00	0.76	1.03	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																
Mod.	Data Rate	N _{rx}	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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.86	16.85	22.99	23.54	23.27	23.27	29.27	29.27	23.98	23.98	----	----
11a	6Mbps	1	116	5580	18.13	17.74	29.70	27.96	23.58	23.49	29.58	29.49	23.98	23.98	----	----
11a	6Mbps	1	140	5700	16.83	16.81	23.62	23.78	23.26	23.26	29.26	29.26	23.98	23.98	----	----

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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	17.30	17.20		23.98	23.98	0.74	1.90	30	Pass
11a	6Mbps	1	116	5580	21.20	20.90	-	23.98	23.98	0.74	1.90	30	Pass
11a	6Mbps	1	140	5700	18.00	17.80		23.98	23.98	0.74	1.90	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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	100	5500	0.07	0.08	6.21	6.13	-	11.00	11.00	0.74	1.90	Pass
11a	6Mbps	1	116	5580	0.07	0.08	10.54	10.62	-	11.00	11.00	0.74	1.90	Pass
11a	6Mbps	1	140	5700	0.07	0.08	7.05	6.62	-	11.00	11.00	0.74	1.90	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	18.94	18.93	24.12	23.32	-	-	22.77	-	-
HE20	MCS0	2	44	5220	Full	18.95	18.93	24.78	23.99	-	-	22.77	-	-
HE20	MCS0	2	48	5240	Full	18.93	18.96	23.97	23.07	-	-	22.77	-	-
HE40	MCS0	2	38	5190	Full	37.79	37.74	43.02	43.17	-	-	23.01	-	-
HE40	MCS0	2	46	5230	Full	37.75	37.75	43.60	42.90	-	-	23.01	-	-
HE80	MCS0	2	42	5210	Full	76.64	76.72	83.07	82.75	-	-	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	36	5180	Full	18.40	17.40		24.00	24.00	1.32	1.23	Pass
HE20	MCS0	1	36	5180	26/0	13.00	13.10		24.00	24.00	1.32	1.23	Pass
HE20	MCS0	1	36	5180	52/37	16.00	16.10		24.00	24.00	1.32	1.23	Pass
HE20	MCS0	1	36	5180	106/53	18.70	18.60		24.00	24.00	1.32	1.23	Pass
HE20	MCS0	1	44	5220	Full	20.40	20.50		24.00	24.00	1.32	1.23	Pass
HE20	MCS0	1	48	5240	Full	20.30	20.40	-	24.00	24.00	1.32	1.23	Pass
HE40	MCS0	1	38	5190	Full	17.00	17.20		24.00	24.00	1.32	1.23	Pass
HE40	MCS0	1	38	5190	242/61	17.80	17.90		24.00	24.00	1.32	1.23	Pass
HE40	MCS0	1	46	5230	Full	20.00	19.30		24.00	24.00	1.32	1.23	Pass
HE80	MCS0	1	42	5210	Full	17.30	17.60		24.00	24.00	1.32	1.23	Pass
HE80	MCS0	1	42	5210	484/65	17.10	16.40		24.00	24.00	1.32	1.23	Pass

FCC U-NII-1 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	15.50	15.80	18.66	24.00		1.32		Pass
HE20	MCS0	2	36	5180	26/0	9.30	10.10	12.73	24.00		1.32		Pass
HE20	MCS0	2	36	5180	52/37	13.10	13.60	16.37	24.00		1.32		Pass
HE20	MCS0	2	36	5180	106/53	15.60	15.90	18.76	24.00		1.32		Pass
HE20	MCS0	2	44	5220	Full	17.00	17.10	20.06	24.00		1.32		Pass
HE20	MCS0	2	48	5240	Full	17.80	17.90	20.86	24.00		1.32		Pass
HE40	MCS0	2	38	5190	Full	14.80	14.90	17.86	24.00		1.32		Pass
HE40	MCS0	2	38	5190	242/61	15.60	15.70	18.66	24.00		1.32		Pass
HE40	MCS0	2	46	5230	Full	17.20	17.40	20.31	24.00		1.32		Pass
HE80	MCS0	2	42	5210	Full	15.20	15.30	18.26	24.00		1.32		Pass
HE80	MCS0	2	42	5210	484/65	14.70	14.75	17.74	24.00		1.32		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO															
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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	0.04	0.06	-	-	7.56	11.00	4.29	-	Pass	
HE20	MCS0	2	36	5180	26/0	0.08	0.08	-	-	10.25	11.00	4.29	-	Pass	
HE20	MCS0	2	36	5180	52/37	0.08	0.07	-	-	10.78	11.00	4.29	-	Pass	
HE20	MCS0	2	36	5180	106/53	0.07	0.07	-	-	10.39	11.00	4.29	-	Pass	
HE20	MCS0	2	44	5220	Full	0.04	0.06	-	-	8.68	11.00	4.29	-	Pass	
HE20	MCS0	2	48	5240	Full	0.04	0.06	-	-	9.38	11.00	4.29	-	Pass	
HE40	MCS0	2	38	5190	Full	0.07	0.10	-	-	3.59	11.00	4.29	-	Pass	
HE40	MCS0	2	38	5190	242/61	0.10	0.08	-	-	7.66	11.00	4.29	-	Pass	
HE40	MCS0	2	46	5230	Full	0.07	0.10	-	-	6.16	11.00	4.29	-	Pass	
HE80	MCS0	2	42	5210	Full	0.08	0.10	-	-	0.77	11.00	4.29	-	Pass	
HE80	MCS0	2	42	5210	484/65	0.08	0.10	-	-	3.56	11.00	4.29	-	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	18.95	19.85	23.66	24.08	23.78		29.78		23.98		
HE20	MCS0	2	60	5300	Full	18.93	18.92	22.86	23.51	23.77		29.77		23.98		
HE20	MCS0	2	64	5320	Full	18.93	18.93	24.33	22.91	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	37.78	37.76	44.10	43.10	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.75	37.78	43.57	44.13	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	76.72	76.73	83.55	83.65	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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	52	5260	Full	20.70	20.60	-	23.98	23.98	0.76	1.03	30	Pass
HE20	MCS0	1	60	5300	Full	20.70	20.40	-	23.98	23.98	0.76	1.03	30	Pass
HE20	MCS0	1	64	5320	Full	17.40	17.30	-	23.98	23.98	0.76	1.03	30	Pass
HE20	MCS0	1	64	5320	26/8	13.50	13.40	-	23.98	23.98	0.76	1.03	30	Pass
HE20	MCS0	1	64	5320	52/40	14.80	15.60	-	23.98	23.98	0.76	1.03	30	Pass
HE20	MCS0	1	64	5320	106/54	18.70	19.20	-	23.98	23.98	0.76	1.03	30	Pass
HE40	MCS0	1	54	5270	Full	19.80	18.80	-	23.98	23.98	0.76	1.03	30	Pass
HE40	MCS0	1	62	5310	Full	16.50	16.30	-	23.98	23.98	0.76	1.03	30	Pass
HE40	MCS0	1	62	5310	242/62	17.40	17.30	-	23.98	23.98	0.76	1.03	30	Pass
HE80	MCS0	1	58	5290	Full	17.10	16.70	-	23.98	23.98	0.76	1.03	30	Pass
HE80	MCS0	1	58	5290	484/66	15.10	16.50	-	23.98	23.98	0.76	1.03	30	Pass

FCC U-NII-2A MIMO														
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	17.10	17.00	20.06	23.98	23.98	1.03	1.03	30	Pass
HE20	MCS0	2	60	5300	Full	17.40	17.20	20.31	23.98	23.98	1.03	1.03	30	Pass
HE20	MCS0	2	64	5320	Full	13.60	13.50	16.56	23.98	23.98	1.03	1.03	30	Pass
HE20	MCS0	2	64	5320	26/8	10.50	10.40	13.46	23.98	23.98	1.03	1.03	30	Pass
HE20	MCS0	2	64	5320	52/40	13.40	13.10	16.26	23.98	23.98	1.03	1.03	30	Pass
HE20	MCS0	2	64	5320	106/54	16.40	16.30	19.36	23.98	23.98	1.03	1.03	30	Pass
HE40	MCS0	2	54	5270	Full	16.60	16.40	19.51	23.98	23.98	1.03	1.03	30	Pass
HE40	MCS0	2	62	5310	Full	13.00	12.80	15.91	23.98	23.98	1.03	1.03	30	Pass
HE40	MCS0	2	62	5310	242/62	13.40	13.20	16.31	23.98	23.98	1.03	1.03	30	Pass
HE80	MCS0	2	58	5290	Full	13.80	13.70	16.76	23.98	23.98	1.03	1.03	30	Pass
HE80	MCS0	2	58	5290	484/66	12.80	12.40	15.61	23.98	23.98	1.03	1.03	30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO																		
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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2				
HE20	MCS0	2	52	5260	Full	0.04	0.06	-		8.67	11.00	3.91		Pass				
HE20	MCS0	2	60	5300	Full	0.04	0.06								8.88	11.00	3.91	Pass
HE20	MCS0	2	64	5320	Full	0.04	0.06								5.37	11.00	3.91	Pass
HE20	MCS0	2	64	5320	26/8	0.08	0.08								10.88	11.00	3.91	Pass
HE20	MCS0	2	64	5320	52/40	0.08	0.07								10.89	11.00	3.91	Pass
HE20	MCS0	2	64	5320	106/54	0.07	0.07								10.97	11.00	3.91	Pass
HE40	MCS0	2	54	5270	Full	0.07	0.10								5.02	11.00	3.91	Pass
HE40	MCS0	2	62	5310	Full	0.07	0.10								1.56	11.00	3.91	Pass
HE40	MCS0	2	62	5310	242/62	0.08	0.08								5.04	11.00	3.91	Pass
HE80	MCS0	2	58	5290	Full	0.08	0.10								-0.92	11.00	3.91	Pass
HE80	MCS0	2	58	5290	484/66	0.08	0.10	1.43	11.00	3.91	Pass							

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	18.94	18.94	24.10	23.83	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.93	18.94	23.97	23.18	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.95	18.93	22.94	22.85	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.74	37.79	43.70	43.20	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.74	37.73	43.68	43.23	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.78	37.71	43.52	42.43	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	76.65	76.73	82.94	82.98	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	76.67	76.65	82.98	83.30	23.98		30.00		23.98		----	----

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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	100	5500	Full	17.40	17.30		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	100	5500	26/0	13.60	13.50		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	100	5500	52/37	16.20	16.10		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	100	5500	106/53	19.40	19.30		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	116	5580	Full	20.80	20.60		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	140	5700	Full	17.70	17.60		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	140	5700	26/8	13.30	13.20		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	140	5700	52/40	16.40	16.30		23.98	23.98	0.74	1.90	30	Pass
HE20	MCS0	1	140	5700	106/54	19.40	19.30	-	23.98	23.98	0.74	1.90	30	Pass
HE40	MCS0	1	102	5510	Full	16.90	16.80		23.98	23.98	0.74	1.90	30	Pass
HE40	MCS0	1	102	5510	242/61	17.30	17.20		23.98	23.98	0.74	1.90	30	Pass
HE40	MCS0	1	110	5550	Full	20.20	19.70		23.98	23.98	0.74	1.90	30	Pass
HE40	MCS0	1	134	5670	Full	18.70	18.60		23.98	23.98	0.74	1.90	30	Pass
HE40	MCS0	1	134	5670	242/62	20.10	20.00		23.98	23.98	0.74	1.90	30	Pass
HE80	MCS0	1	106	5530	Full	17.90	17.00		23.98	23.98	0.74	1.90	30	Pass
HE80	MCS0	1	106	5530	484/65	17.00	17.40		23.98	23.98	0.74	1.90	30	Pass
HE80	MCS0	1	122	5610	Full	19.50	19.10		23.98	23.98	0.74	1.90	30	Pass

FCC U-NII-2C MIMO														
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	13.80	13.70	16.76	23.98		1.90		30	Pass
HE20	MCS0	2	100	5500	26/0	10.50	10.40	13.46	23.98		1.90		30	Pass
HE20	MCS0	2	100	5500	52/37	13.50	13.40	16.46	23.98		1.90		30	Pass
HE20	MCS0	2	100	5500	106/53	16.80	16.60	19.71	23.98		1.90		30	Pass
HE20	MCS0	2	116	5580	Full	18.40	18.30	21.36	23.98		1.90		30	Pass
HE20	MCS0	2	140	5700	Full	14.10	14.00	17.06	23.98		1.90		30	Pass
HE20	MCS0	2	140	5700	26/8	10.20	10.10	13.16	23.98		1.90		30	Pass
HE20	MCS0	2	140	5700	52/40	13.60	13.00	16.32	23.98		1.90		30	Pass
HE20	MCS0	2	140	5700	106/54	16.40	16.30	19.36	23.98		1.90		30	Pass
HE40	MCS0	2	102	5510	Full	13.60	14.00	16.81	23.98		1.90		30	Pass
HE40	MCS0	2	102	5510	242/61	13.60	14.00	16.81	23.98		1.90		30	Pass
HE40	MCS0	2	110	5550	Full	17.70	17.50	20.61	23.98		1.90		30	Pass
HE40	MCS0	2	134	5670	Full	16.80	16.70	19.76	23.98		1.90		30	Pass
HE40	MCS0	2	134	5670	242/62	18.40	18.30	21.36	23.98		1.90		30	Pass
HE80	MCS0	2	106	5530	Full	14.80	14.70	17.76	23.98		1.90		30	Pass
HE80	MCS0	2	106	5530	484/65	13.90	13.80	16.86	23.98		1.90		30	Pass
HE80	MCS0	2	122	5610	Full	17.50	17.20	20.36	23.98		1.90		30	Pass

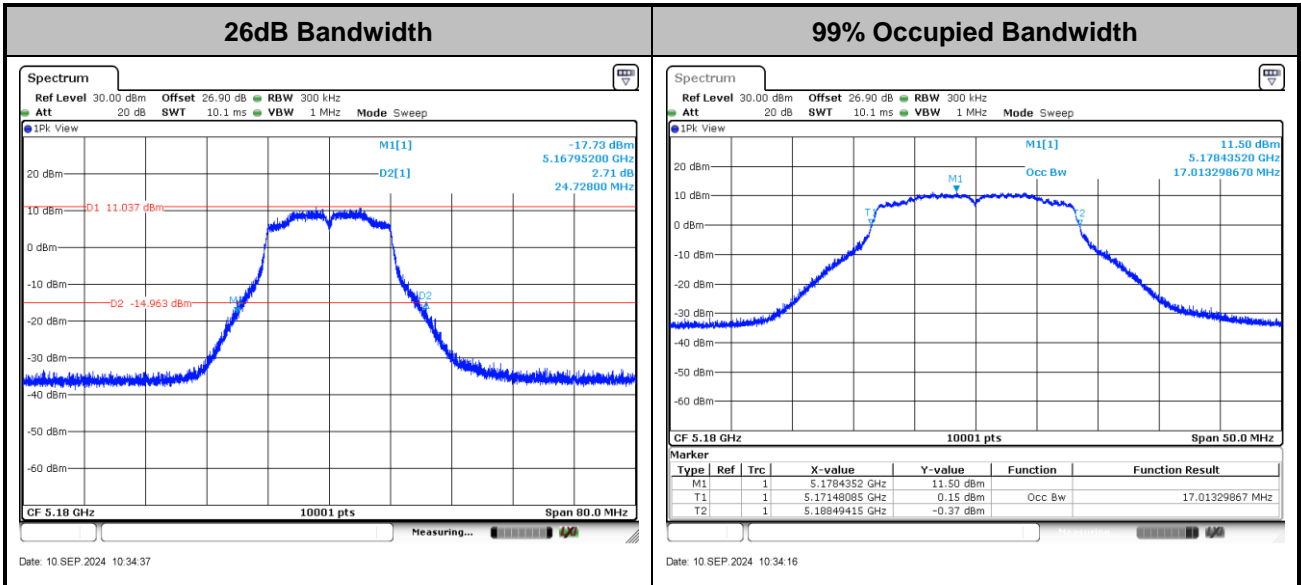
TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO															
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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	100	5500	Full	0.04	0.06			5.17	11.00	4.35		Pass	
HE20	MCS0	2	100	5500	26/0	0.08	0.08			10.87	11.00	4.35		Pass	
HE20	MCS0	2	100	5500	52/37	0.08	0.07			10.86	11.00	4.35		Pass	
HE20	MCS0	2	100	5500	106/53	0.07	0.07			10.96	11.00	4.35		Pass	
HE20	MCS0	2	116	5580	Full	0.04	0.06			9.97	11.00	4.35		Pass	
HE20	MCS0	2	140	5700	Full	0.04	0.06			5.71	11.00	4.35		Pass	
HE20	MCS0	2	140	5700	26/8	0.08	0.08			10.58	11.00	4.35		Pass	
HE20	MCS0	2	140	5700	52/40	0.08	0.07			10.74	11.00	4.35		Pass	
HE20	MCS0	2	140	5700	106/54	0.07	0.07			10.89	11.00	4.35		Pass	
HE40	MCS0	2	102	5510	Full	0.07	0.10			2.18	11.00	4.35		Pass	
HE40	MCS0	2	102	5510	242/61	0.08	0.08			5.80	11.00	4.35		Pass	
HE40	MCS0	2	110	5550	Full	0.07	0.10			6.46	11.00	4.35		Pass	
HE40	MCS0	2	134	5670	Full	0.07	0.10			5.49	11.00	4.35		Pass	
HE40	MCS0	2	134	5670	242/62	0.08	0.08			10.51	11.00	4.35		Pass	
HE80	MCS0	2	106	5530	Full	0.08	0.10			-0.02	11.00	4.35		Pass	
HE80	MCS0	2	106	5530	484/65	0.08	0.10			2.95	11.00	4.35		Pass	
HE80	MCS0	2	122	5610	Full	0.08	0.10			3.09	11.00	4.35		Pass	



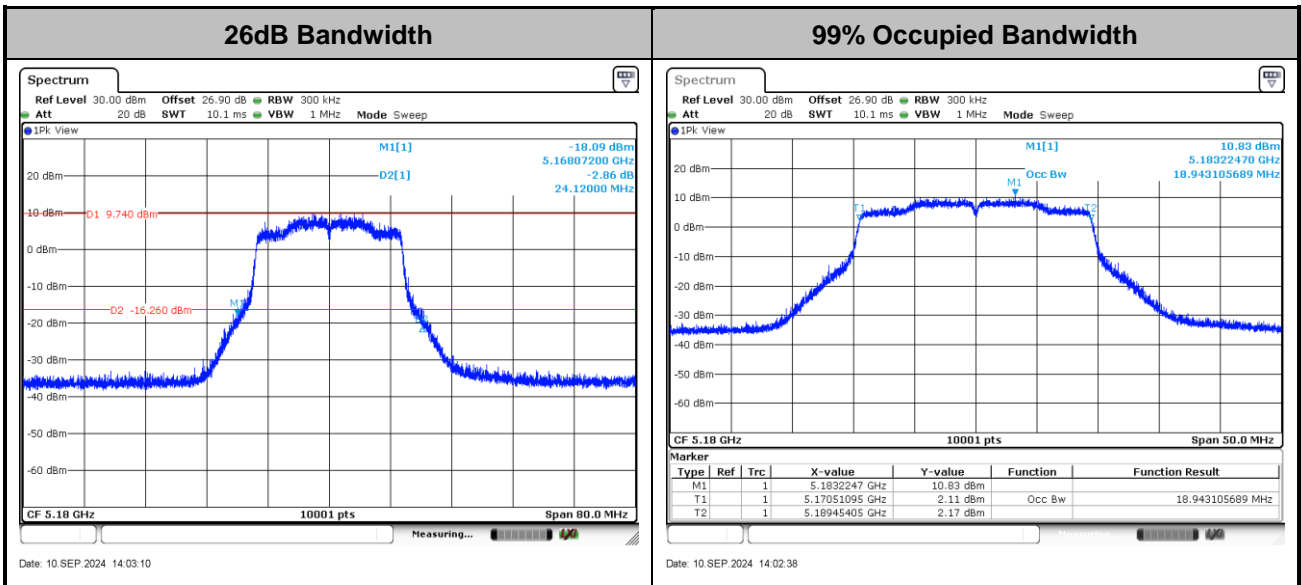
Test Result of 26dB & 99% Occupied Bandwidth

<802.11a>



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

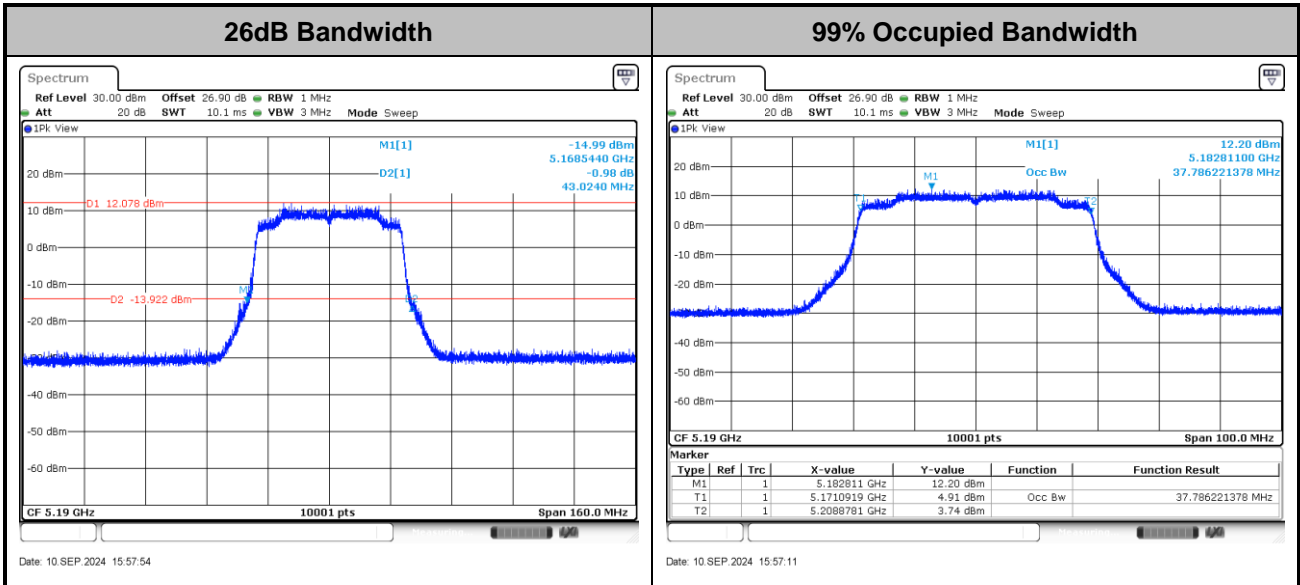
<802.11ax HE20>



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

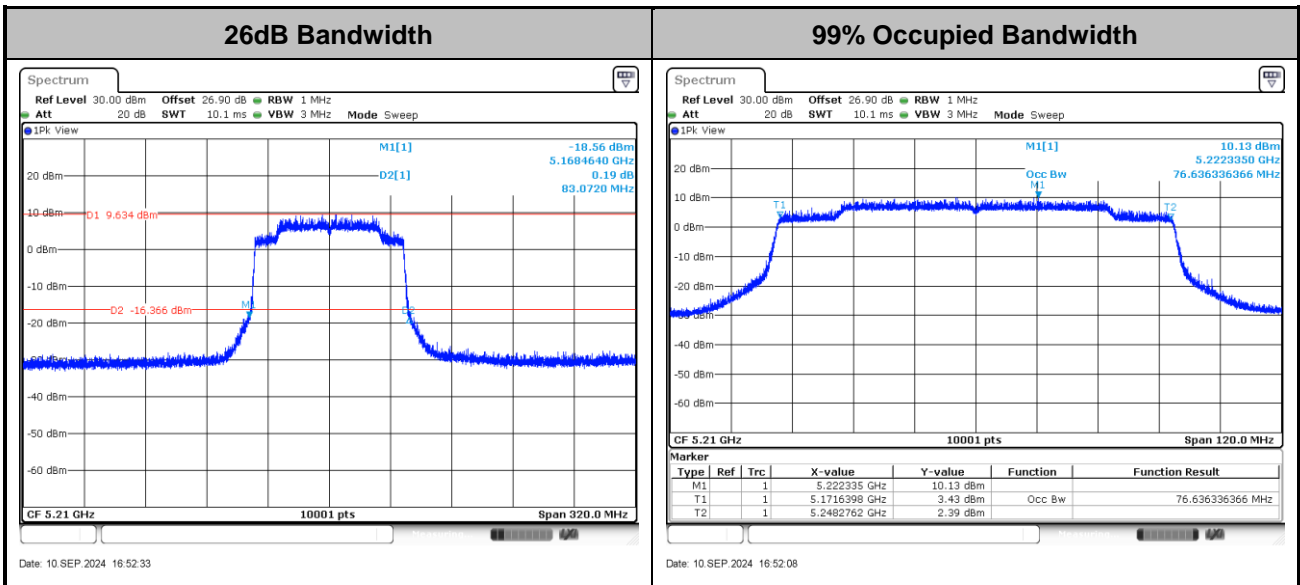


<802.11ax HE40>



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

<802.11ax HE80>



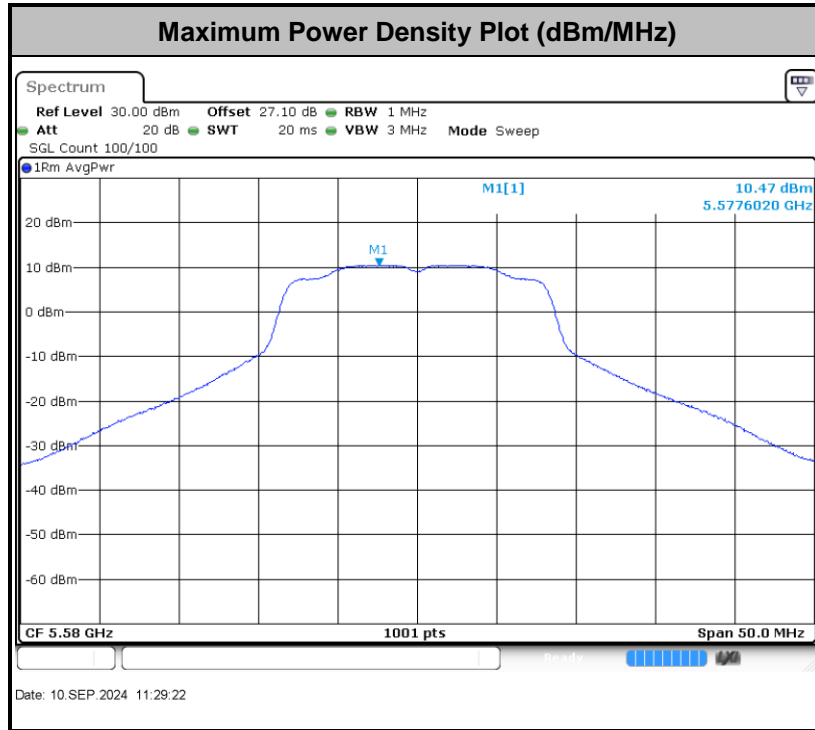
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



Test Result of Power Spectral Density

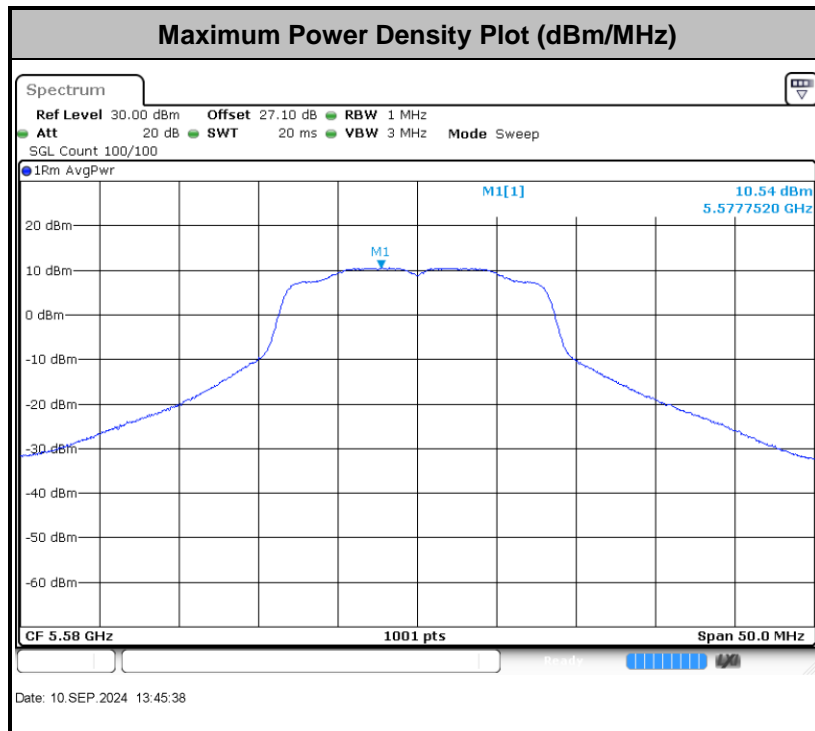
<SISO Ant. 1>

<802.11a>



<SISO Ant. 2>

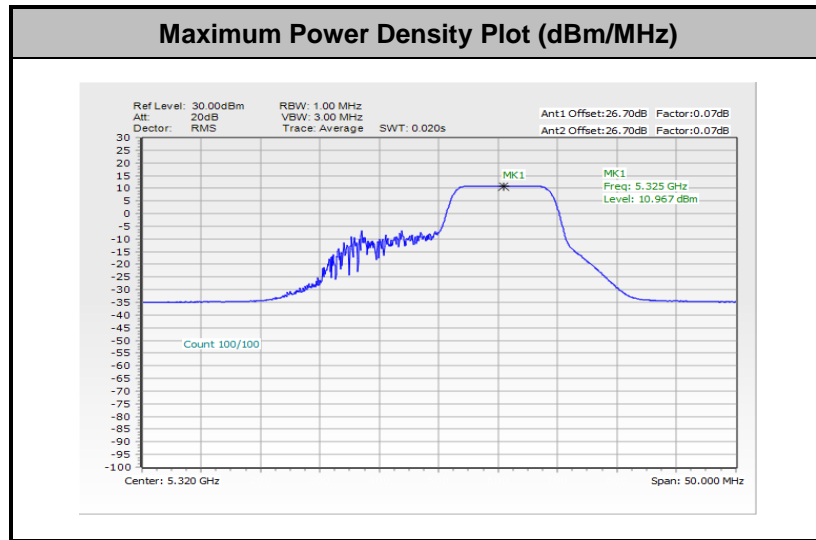
<802.11a>



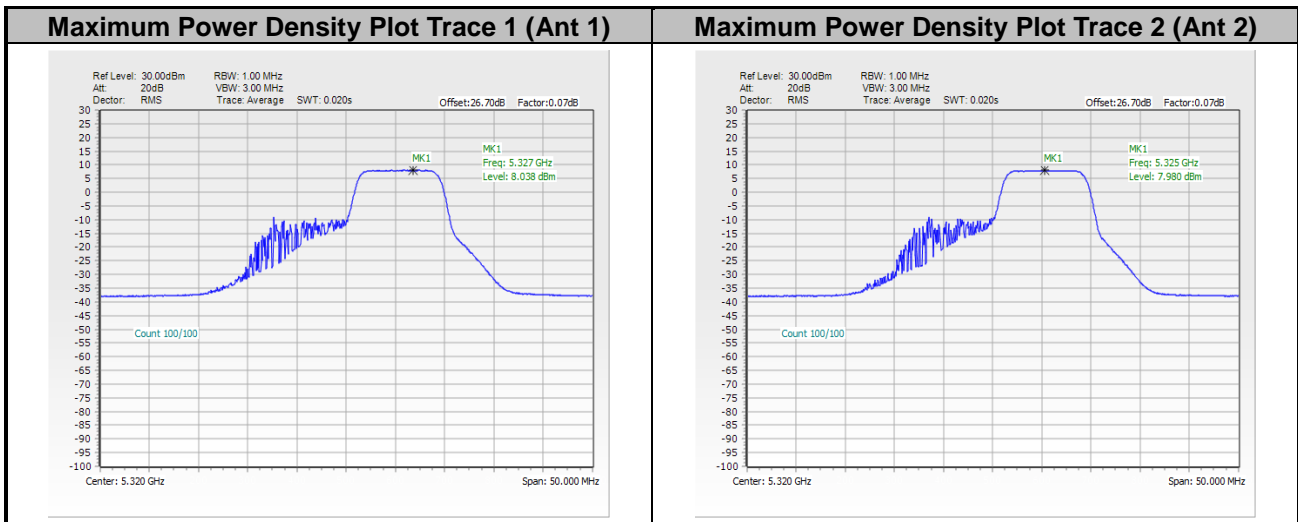


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<802.11ax HE20>

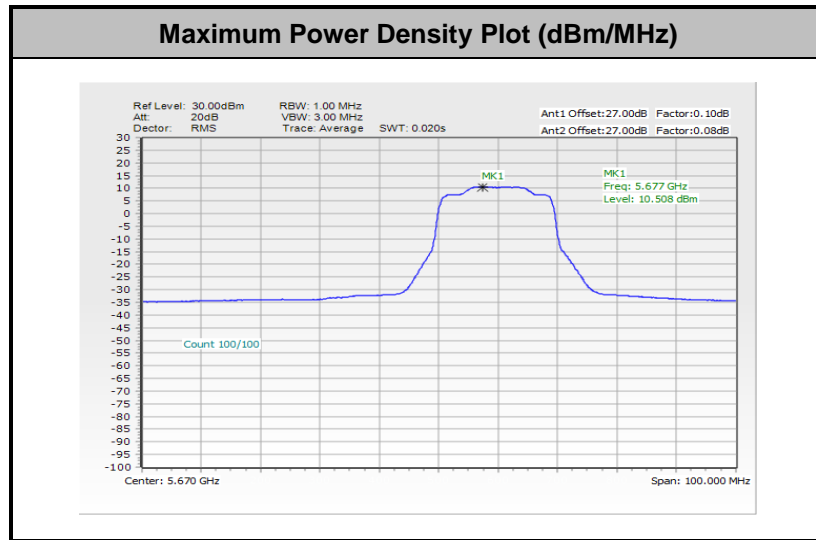


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

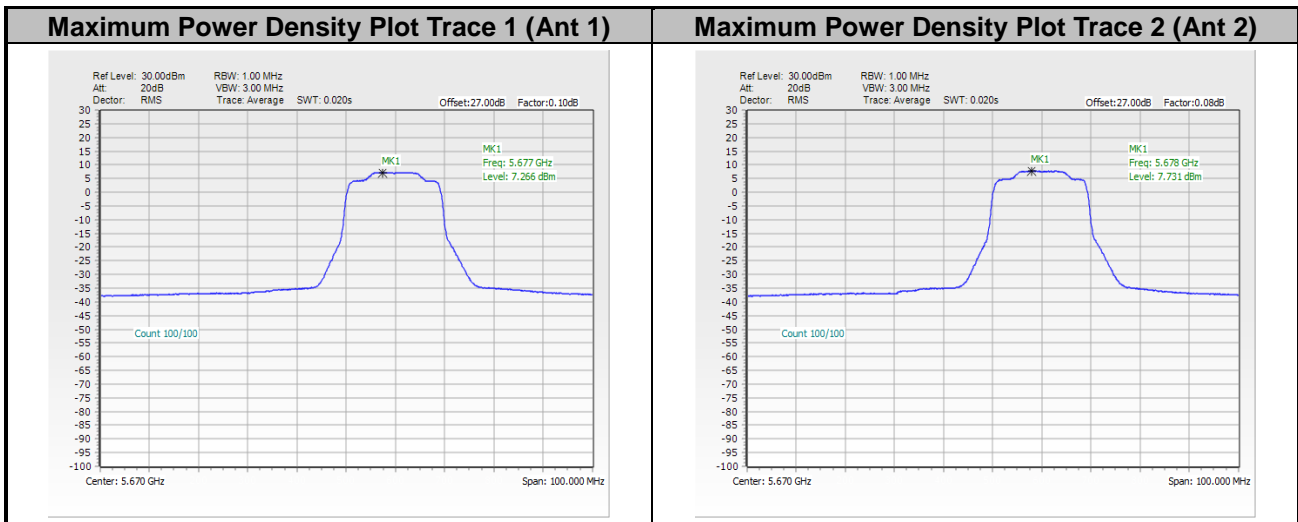




<802.11ax HE40>

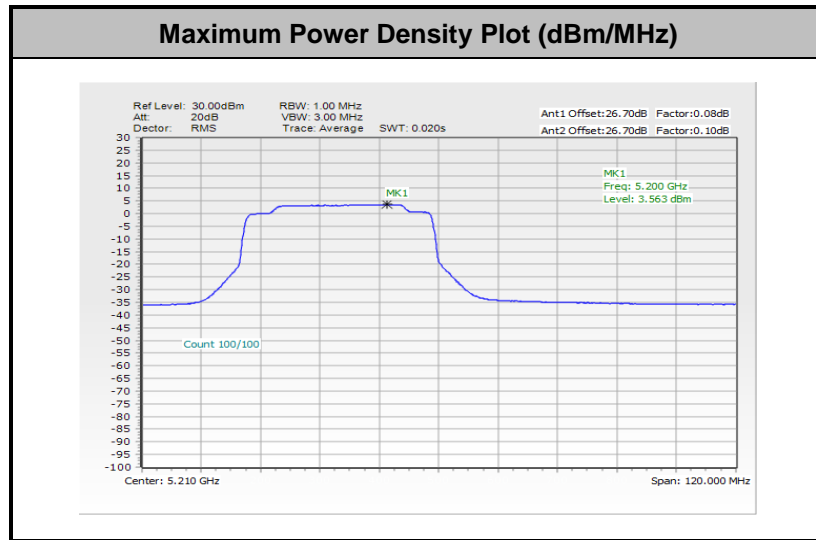


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

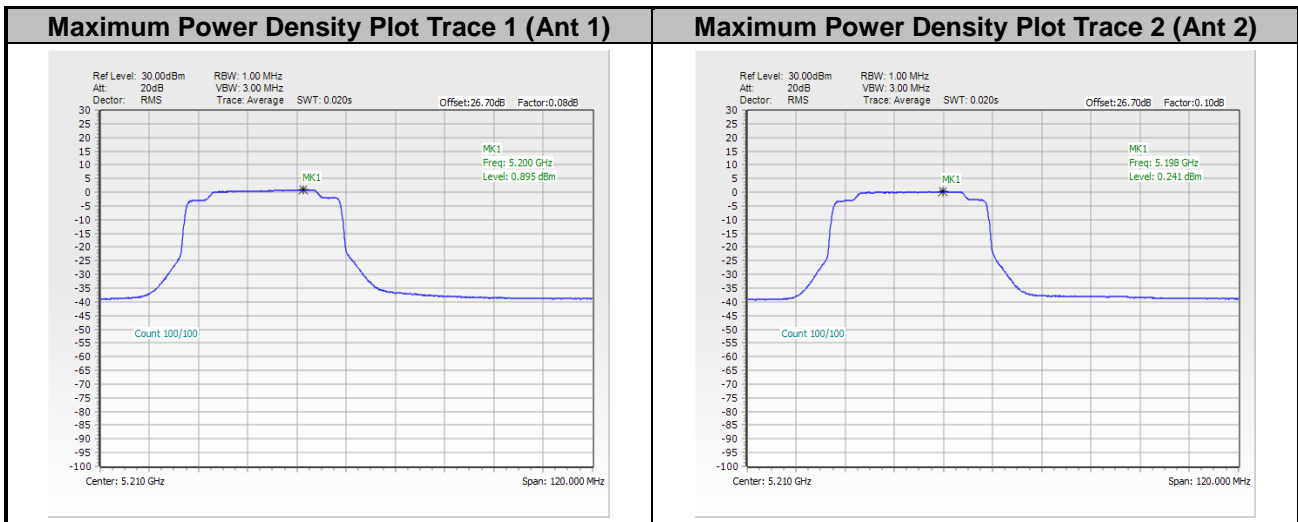




<802.11ax HE80>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.





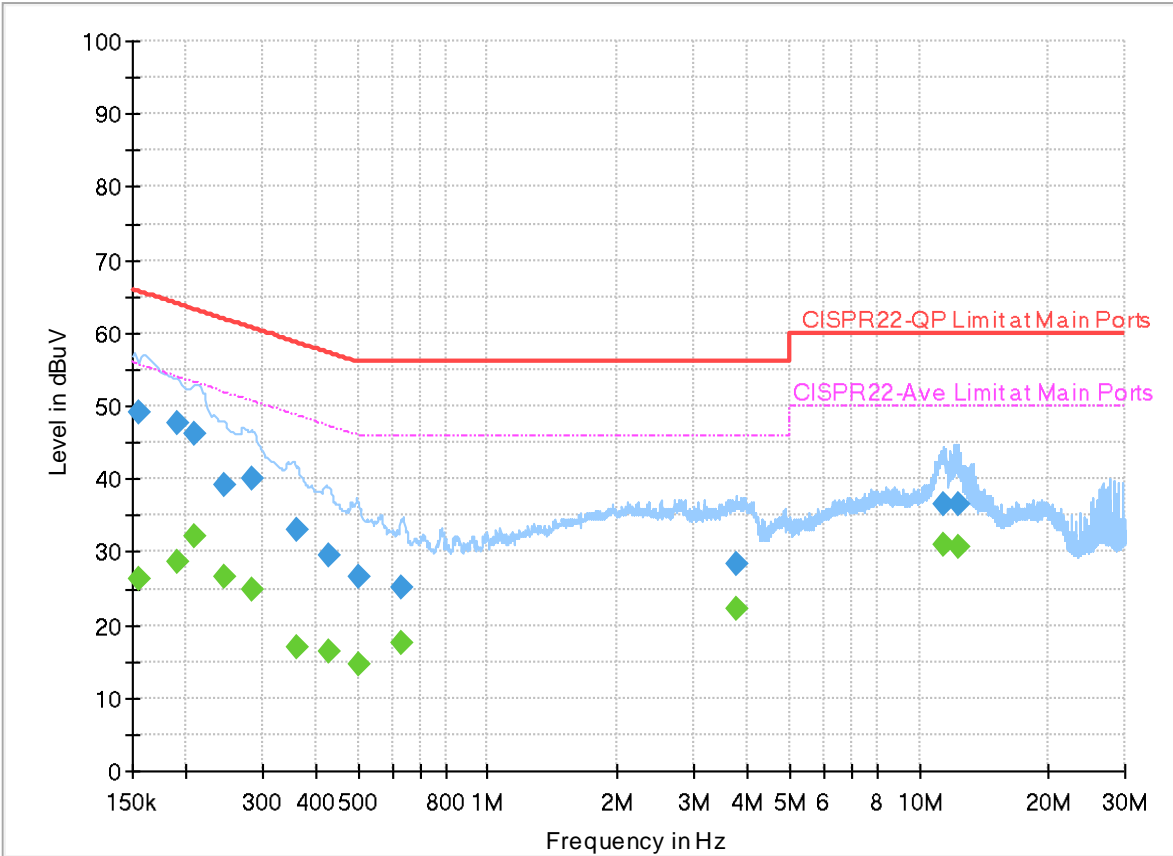
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.5~25.6°C
		Relative Humidity :	53.2~58.3%

EUT Information

Report NO : 480505
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

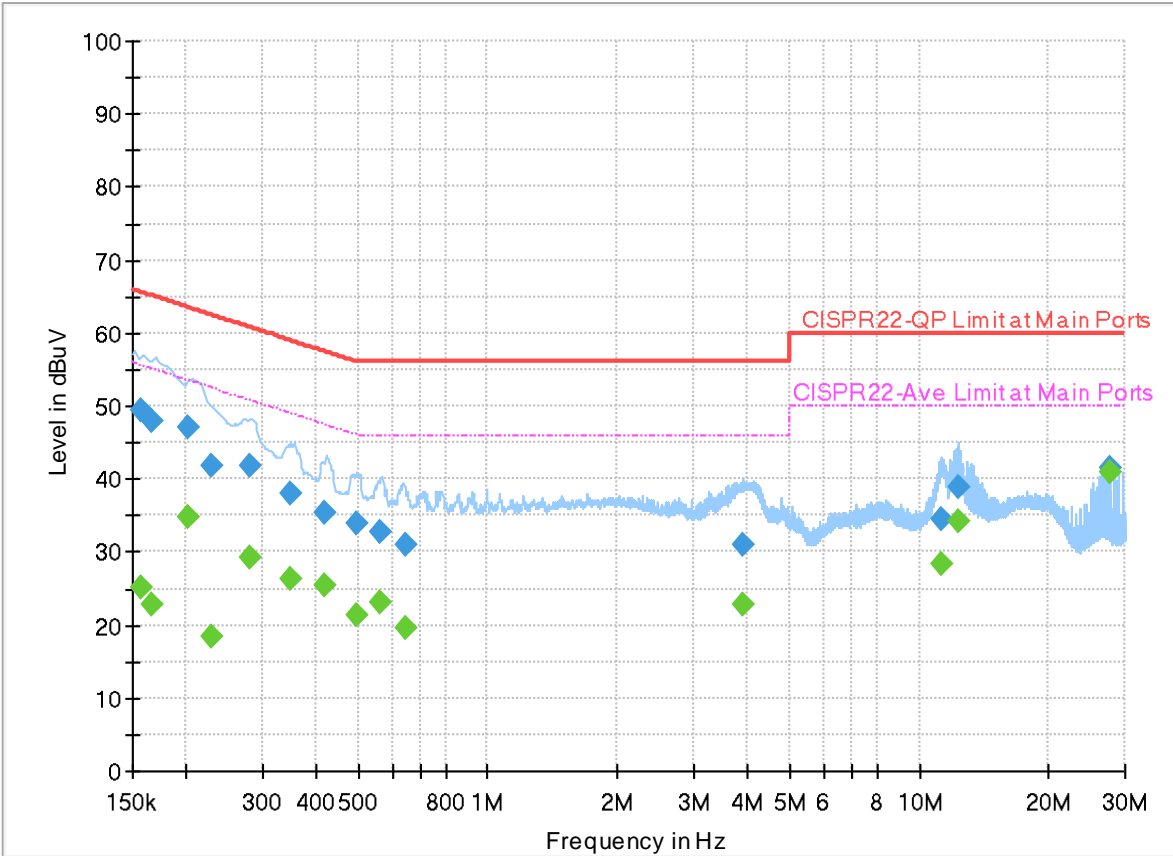
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	26.17	55.75	29.58	L1	OFF	19.9
0.154500	49.20	---	65.75	16.55	L1	OFF	19.9
0.189600	---	28.53	54.05	25.52	L1	OFF	19.9
0.189600	47.68	---	64.05	16.37	L1	OFF	19.9
0.208950	---	32.22	53.25	21.03	L1	OFF	19.9
0.208950	46.19	---	63.25	17.06	L1	OFF	19.9
0.244770	---	26.73	51.93	25.20	L1	OFF	19.9
0.244770	39.25	---	61.93	22.68	L1	OFF	19.9
0.282750	---	24.83	50.74	25.91	L1	OFF	19.9
0.282750	40.02	---	60.74	20.72	L1	OFF	19.9
0.358710	---	16.84	48.76	31.92	L1	OFF	19.9
0.358710	32.96	---	58.76	25.80	L1	OFF	19.9
0.427470	---	16.46	47.30	30.84	L1	OFF	19.9
0.427470	29.63	---	57.30	27.67	L1	OFF	19.9
0.501000	---	14.54	46.00	31.46	L1	OFF	19.9
0.501000	26.57	---	56.00	29.43	L1	OFF	19.9
0.633750	---	17.64	46.00	28.36	L1	OFF	19.9
0.633750	25.08	---	56.00	30.92	L1	OFF	19.9
3.777810	---	22.26	46.00	23.74	L1	OFF	20.0

3.777810	28.34	---	56.00	27.66	L1	OFF	20.0
11.353650	---	30.92	50.00	19.08	L1	OFF	20.1
11.353650	36.51	---	60.00	23.49	L1	OFF	20.1
12.297750	---	30.76	50.00	19.24	L1	OFF	20.1
12.297750	36.50	---	60.00	23.50	L1	OFF	20.1

EUT Information

Report NO : 480505
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	25.15	55.63	30.48	N	OFF	19.9
0.156750	49.40	---	65.63	16.23	N	OFF	19.9
0.166830	---	22.92	55.12	32.20	N	OFF	19.9
0.166830	48.06	---	65.12	17.06	N	OFF	19.9
0.202200	---	34.88	53.52	18.64	N	OFF	19.9
0.202200	47.12	---	63.52	16.40	N	OFF	19.9
0.228750	---	18.53	52.50	33.97	N	OFF	19.9
0.228750	41.69	---	62.50	20.81	N	OFF	19.9
0.281130	---	29.21	50.78	21.57	N	OFF	19.9
0.281130	41.81	---	60.78	18.97	N	OFF	19.9
0.350520	---	26.29	48.95	22.66	N	OFF	19.9
0.350520	38.05	---	58.95	20.90	N	OFF	19.9
0.418380	---	25.54	47.48	21.94	N	OFF	19.9
0.418380	35.52	---	57.48	21.96	N	OFF	19.9
0.494610	---	21.28	46.09	24.81	N	OFF	19.9
0.494610	33.98	---	56.09	22.11	N	OFF	19.9
0.559500	---	23.08	46.00	22.92	N	OFF	19.9
0.559500	32.68	---	56.00	23.32	N	OFF	19.9
0.644280	---	19.58	46.00	26.42	N	OFF	19.9

0.644280	31.11	---	56.00	24.89	N	OFF	19.9
3.914250	---	22.91	46.00	23.09	N	OFF	20.0
3.914250	30.90	---	56.00	25.10	N	OFF	20.0
11.314500	---	28.47	50.00	21.53	N	OFF	20.1
11.314500	34.65	---	60.00	25.35	N	OFF	20.1
12.401250	---	34.08	50.00	15.92	N	OFF	20.1
12.401250	38.99	---	60.00	21.01	N	OFF	20.1
27.836610	---	40.99	50.00	9.01	N	OFF	20.2
27.836610	41.56	---	60.00	18.44	N	OFF	20.2



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Bill Chang, Jerry Lan, Gary Guo, and Steven Wu	Temperature :	18.2~20.2°C
		Relative Humidity :	54.2~56.1%

Remark: For Radiation Spurious Emission Test Data, Ant. 1 means Chain B (Aux.) and Ant. 2 means Chain A (Main).

Note symbol

-L	Low channel location
-R	High channel location



<Ant. 1>

C1.1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	1	802.11a	36	5180	6Mbps	-	-
Mode 4	U-NII-2A	5.25-5.35	1	802.11a	52	5260	6Mbps	-	-
Mode 5	U-NII-2A	5.25-5.35	1	802.11a	60	5300	6Mbps	-	-
Mode 6	U-NII-2A	5.25-5.35	1	802.11a	64	5320	6Mbps	-	-
Mode 7	U-NII-2C	5.47-5.725	1	802.11a	100	5500	6Mbps	-	-
Mode 8	U-NII-2C	5.47-5.725	1	802.11a	116	5580	6Mbps	-	-
Mode 9	U-NII-2C	5.47-5.725	1	802.11a	140	5700	6Mbps	-	-
Mode 10	U-NII-1	5.15-5.25	1	802.11ax HE20	36	5180	MCS0	-	-
Mode 13	U-NII-2A	5.25-5.35	1	802.11ax HE20	52	5260	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	1	802.11ax HE20	60	5300	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	1	802.11ax HE20	64	5320	MCS0	-	-
Mode 16	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	-	-
Mode 17	U-NII-2C	5.47-5.725	1	802.11ax HE20	116	5580	MCS0	-	-
Mode 18	U-NII-2C	5.47-5.725	1	802.11ax HE20	140	5700	MCS0	-	-
Mode 20	U-NII-1	5.15-5.25	1	802.11ax HE40	46	5230	MCS0	-	-
Mode 21	U-NII-2A	5.25-5.35	1	802.11ax HE40	54	5270	MCS0	-	-
Mode 22	U-NII-2A	5.25-5.35	1	802.11ax HE40	62	5310	MCS0	-	-
Mode 23	U-NII-2C	5.47-5.725	1	802.11ax HE40	102	5510	MCS0	-	-
Mode 24	U-NII-2C	5.47-5.725	1	802.11ax HE40	110	5550	MCS0	-	-
Mode 25	U-NII-2C	5.47-5.725	1	802.11ax HE40	134	5670	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 27	U-NII-2A	5.25-5.35	1	802.11ax HE80	58	5290	MCS0	-	-
Mode 28	U-NII-2C	5.47-5.725	1	802.11ax HE80	106	5530	MCS0	-	-
Mode 29	U-NII-2C	5.47-5.725	1	802.11ax HE80	122	5610	MCS0	-	-
Mode 52	U-NII-1	5.15-5.25	1	802.11ax HE20	36	5180	MCS0	106/53	-
Mode 53	U-NII-2A	5.25-5.35	1	802.11ax HE20	64	5320	MCS0	26/8	-
Mode 56	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	26/0	-
Mode 57	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	52/37	-
Mode 58	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	106/53	-
Mode 59	U-NII-2C	5.47-5.725	1	802.11ax HE20	140	5700	MCS0	26/8	-
Mode 60	U-NII-2C	5.47-5.725	1	802.11ax HE20	140	5700	MCS0	52/40	-
Mode 61	U-NII-2C	5.47-5.725	1	802.11ax HE20	140	5700	MCS0	106/54	-
Mode 63	U-NII-2A	5.25-5.35	1	802.11ax HE40	62	5310	MCS0	242/62	-
Mode 64	U-NII-2C	5.47-5.725	1	802.11ax HE40	102	5510	MCS0	242/61	-
Mode 65	U-NII-2C	5.47-5.725	1	802.11ax HE40	134	5670	MCS0	242/62	-
Mode 66	U-NII-1	5.15-5.25	1	802.11ax HE80	42	5210	MCS0	484/65	-
Mode 68	U-NII-2C	5.47-5.725	1	802.11ax HE80	106	5530	MCS0	484/65	-



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	5149.40	46.10	54.00	-7.90	H	Avg.	Pass	-	Band Edge
	802.11a	36	10360.00	51.49	68.20	-16.71	V	Peak	Pass	-	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	-	Band Edge
	802.11a	52	10520.00	55.85	68.20	-12.35	V	Peak	Pass	-	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	-	Band Edge
	802.11a	60	10600.00	48.65	54.00	-5.35	V	Avg.	Pass	-	Harmonic
6	802.11a	64	5350.24	46.11	54.00	-7.89	H	Avg.	Pass	-	Band Edge
	802.11a	64	10640.00	41.47	54.00	-12.53	V	Avg.	Pass	-	Harmonic
7	802.11a	100	5458.60	45.46	54.00	-8.54	H	Avg.	Pass	-	Band Edge
	802.11a	100	16500.00	48.98	68.20	-19.22	H	Peak	Pass	-	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	-	Band Edge
	802.11a	116	11160.00	45.11	54.00	-8.89	V	Avg.	Pass	-	Harmonic
9	802.11a	140	5728.86	57.68	68.20	-10.52	H	Peak	Pass	-	Band Edge
	802.11a	140	17100.00	49.97	68.20	-18.23	V	Peak	Pass	-	Harmonic
10	802.11ax HE20	36	5149.76	46.43	54.00	-7.57	H	Avg.	Pass	-	Band Edge
	802.11ax HE20	36	10360.00	52.13	68.20	-16.07	V	Peak	Pass	-	Harmonic
13	802.11ax HE20	52	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE20	52	10520.00	55.99	68.20	-12.21	V	Peak	Pass	-	Harmonic
14	802.11ax HE20	60	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE20	60	10600.00	48.58	54.00	-5.42	V	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
15	802.11ax HE20	64	5350.10	45.37	54.00	-8.63	V	Avg.	Pass	-	Band Edge
	802.11ax HE20	64	7968.00	52.19	68.20	-16.01	V	Peak	Pass	-	Harmonic
16	802.11ax HE20	100	5459.50	44.69	54.00	-9.31	V	Avg.	Pass	-	Band Edge
	802.11ax HE20	100	16500.00	46.14	68.20	-22.06	H	Peak	Pass	-	Harmonic
17	802.11ax HE20	116	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE20	116	11160.00	43.78	54.00	-10.22	V	Avg.	Pass	-	Harmonic
18	802.11ax HE20	140	5726.20	58.30	68.20	-9.90	H	Peak	Pass	-	Band Edge
	802.11ax HE20	140	15998.00	39.56	54.00	-14.44	V	Avg.	Pass	-	Harmonic
20	802.11ax HE40	46	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE40	46	10460.00	56.20	68.20	-12.00	V	Peak	Pass	-	Harmonic
21	802.11ax HE40	54	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE40	54	10540.00	47.59	68.20	-20.61	V	Peak	Pass	-	Harmonic
22	802.11ax HE40	62	5119.35	45.15	54.00	-8.85	H	Avg.	Pass	-	Band Edge
	802.11ax HE40	62	10620.00	46.68	74.00	-27.32	H	Peak	Pass	-	Harmonic
23	802.11ax HE40	102	5459.60	45.72	54.00	-8.28	H	Avg.	Pass	-	Band Edge
	802.11ax HE40	102	16530.00	46.83	68.20	-21.37	H	Peak	Pass	-	Harmonic
24	802.11ax HE40	110	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE40	110	16650.00	46.73	68.20	-21.47	V	Peak	Pass	-	Harmonic
25	802.11ax HE40	134	5726.81	61.13	68.20	-7.07	H	Peak	Pass	-	Band Edge
	802.11ax HE40	134	17010.00	46.74	68.20	-21.46	H	Peak	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
27	802.11ax HE80	58	5350.18	46.35	54.00	-7.65	H	Avg.	Pass	-	Band Edge
	802.11ax HE80	58	11983.00	38.74	54.00	-15.26	V	Avg.	Pass	-	Harmonic
28	802.11ax HE80	106	5459.26	45.63	54.00	-8.37	H	Avg.	Pass	-	Band Edge
	802.11ax HE80	106	7990.00	51.51	68.20	-16.69	V	Peak	Pass	-	Harmonic
29	802.11ax HE80	122	-	-	-	-	-	-	-	-	Band Edge
	802.11ax HE80	122	16830.00	48.03	68.20	-20.17	H	Peak	Pass	-	Harmonic
52	802.11ax HE20	36	5149.04	46.15	54.00	-7.85	V	Avg.	Pass	106/53	Band Edge
	802.11ax HE20	36	10360.00	52.74	68.20	-15.46	V	Peak	Pass	106/53	Harmonic
53	802.11ax HE20	64	5453.42	44.74	54.00	-9.26	V	Avg.	Pass	26/8	Band Edge
	802.11ax HE20	64	9585.00	55.25	68.20	-12.95	V	Peak	Pass	26/8	Harmonic
56	802.11ax HE20	100	5457.55	44.61	54.00	-9.39	H	Avg.	Pass	26/0	Band Edge
	802.11ax HE20	100	11000.00	41.51	54.00	-12.49	V	Avg.	Pass	26/0	Harmonic
57	802.11ax HE20	100	5459.35	44.55	54.00	-9.45	V	Avg.	Pass	52/37	Band Edge
	802.11ax HE20	100	9607.00	53.38	68.20	-14.82	V	Peak	Pass	52/37	Harmonic
58	802.11ax HE20	100	5459.95	44.97	54.00	-9.03	H	Avg.	Pass	106/53	Band Edge
	802.11ax HE20	100	11000.00	44.35	54.00	-9.65	V	Avg.	Pass	106/53	Harmonic
59	802.11ax HE20	140	5762.60	56.45	68.20	-11.75	H	Peak	Pass	26/8	Band Edge
	802.11ax HE20	140	9585.00	53.19	68.20	-15.01	V	Peak	Pass	26/8	Harmonic
60	802.11ax HE20	140	5738.74	56.62	68.20	-11.58	V	Peak	Pass	52/40	Band Edge
	802.11ax HE20	140	17100.00	48.62	68.20	-19.58	H	Peak	Pass	52/40	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
61	802.11ax HE20	140	5725.87	59.52	68.20	-8.68	H	Peak	Pass	106/54	Band Edge
	802.11ax HE20	140	11983.00	38.39	54.00	-15.61	V	Avg.	Pass	106/54	Harmonic
63	802.11ax HE40	62	5132.37	45.22	54.00	-8.78	V	Avg.	Pass	242/62	Band Edge
	802.11ax HE40	62	10620.00	41.08	54.00	-12.92	V	Avg.	Pass	242/62	Harmonic
64	802.11ax HE40	102	5459.60	44.69	54.00	-9.31	H	Avg.	Pass	242/61	Band Edge
	802.11ax HE40	102	16530.00	47.18	68.20	-21.02	V	Peak	Pass	242/61	Harmonic
65	802.11ax HE40	134	5726.72	60.31	68.20	-7.89	H	Peak	Pass	242/62	Band Edge
	802.11ax HE40	134	17010.00	48.73	68.20	-19.47	V	Peak	Pass	242/62	Harmonic
66	802.11ax HE80	42	5149.94	47.82	54.00	-6.18	V	Avg.	Pass	484/65	Band Edge
	802.11ax HE80	42	10420.00	47.43	68.20	-20.77	V	Peak	Pass	484/65	Harmonic
68	802.11ax HE80	106	5459.98	44.68	54.00	-9.32	H	Avg.	Pass	484/65	Band Edge
	802.11ax HE80	106	16590.00	48.73	68.20	-19.47	V	Peak	Pass	484/65	Harmonic



Mode	1																																																																																	
	Band Edge																																																																																	
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz																																																																																	
ANT	1																																																																																	
Pol.	Horizontal	Fundamental																																																																																
Peak	<p>Site : 03CH16-HY Condition: PEAK_BE_74 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <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> </tr> <tr> <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> </tr> </thead> <tbody> <tr> <td>1</td> <td>5065.34</td> <td>56.41</td> <td>74.00</td> <td>-17.59</td> <td>41.80</td> <td>32.90</td> <td>11.11</td> <td>29.40</td> <td>0.00</td> <td>200</td> <td>19</td> <td>PEAK</td> </tr> </tbody> </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	1	5065.34	56.41	74.00	-17.59	41.80	32.90	11.11	29.40	0.00	200	19	PEAK	<p>Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <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> </tr> <tr> <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> </tr> </thead> <tbody> <tr> <td>1</td> <td>5180.00</td> <td>106.61</td> <td>-----</td> <td>-----</td> <td>91.80</td> <td>33.00</td> <td>11.20</td> <td>29.39</td> <td>0.00</td> <td>200</td> <td>19</td> <td>PEAK</td> </tr> </tbody> </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	1	5180.00	106.61	-----	-----	91.80	33.00	11.20	29.39	0.00	200	19	PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																									
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Pol.	Horizontal	Vertical
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1	10520.00	50.68	68.20	-17.52	62.25	38.44	15.93	66.39	0.45	100	271	PEAK																																																																																		
2	15780.00	47.87	74.00	-26.13	56.71	37.40	19.60	66.45	0.61	--	--	PEAK																																																																																		
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																				
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2	15780.00	47.93	74.00	-26.07	56.77	37.40	19.60	66.45	0.61	--	--	PEAK																																																																																		



	4	
Mode	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



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Mode	Harmonic	
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ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



Mode	6																																																																																	
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	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz																																																																																	
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg																																																										
1	5320.00	99.75	-----	-----	84.99	32.80	11.33	29.37	0.00	209	87	AVERAGE																																																								



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Mode	Harmonic	
	U-NII-2A_5.25-5.35_802.11a_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



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Mode	Band Edge																																																																		
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz																																																																		
ANT	1																																																																		
Pol.	Horizontal	Fundamental																																																																	
Peak	<p>Site : 03CH16-HY Condition: PEAK_BE(UNII)_B3 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</th> <th>Read Level</th> <th>Ant Factor</th> <th>Cable Loss</th> <th>Preamp Loss</th> <th>Aux Factor</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>1</th> <th>5442.40</th> <th>53.98</th> <th>74.00</th> <th>-20.02</th> <th>39.08</th> <th>32.80</th> <th>11.46</th> <th>29.36</th> <th>0.00</th> <th>200</th> <th>24</th> <th>PEAK</th> </tr> <tr> <th>2</th> <th>5464.15</th> <th>55.32</th> <th>68.20</th> <th>-12.88</th> <th>40.38</th> <th>32.80</th> <th>11.49</th> <th>29.35</th> <th>0.00</th> <th>200</th> <th>24</th> <th>PEAK</th> </tr> </thead> </table>	Peak	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Loss	Aux Factor	APos	TPos	Remark	1	5442.40	53.98	74.00	-20.02	39.08	32.80	11.46	29.36	0.00	200	24	PEAK	2	5464.15	55.32	68.20	-12.88	40.38	32.80	11.49	29.35	0.00	200	24	PEAK	<p>Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line Margin</th> <th>Read Level</th> <th>Ant Factor</th> <th>Cable Loss</th> <th>Preamp Loss</th> <th>Aux Factor</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>1</th> <th>5500.00</th> <th>105.38</th> <th>-----</th> <th>-----</th> <th>90.39</th> <th>32.80</th> <th>11.54</th> <th>29.35</th> <th>0.00</th> <th>200</th> <th>24</th> <th>PEAK</th> </tr> </thead> </table>	Peak	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Loss	Aux Factor	APos	TPos	Remark	1	5500.00	105.38	-----	-----	90.39	32.80	11.54	29.35	0.00	200	24	PEAK
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ANT	1	
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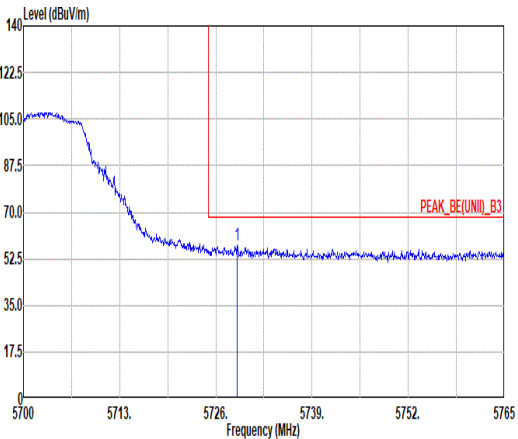
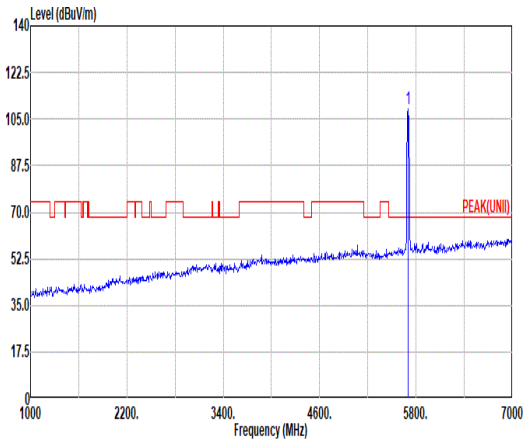
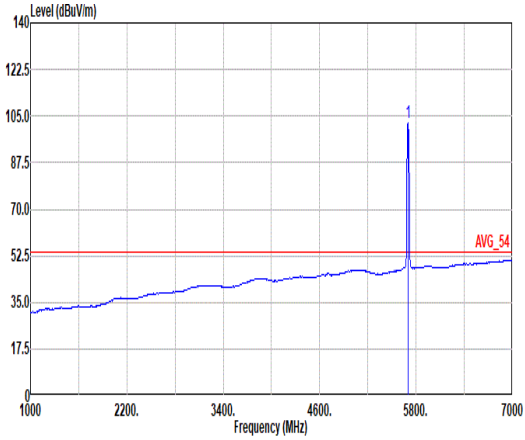


Mode	8																																																																																																																																					
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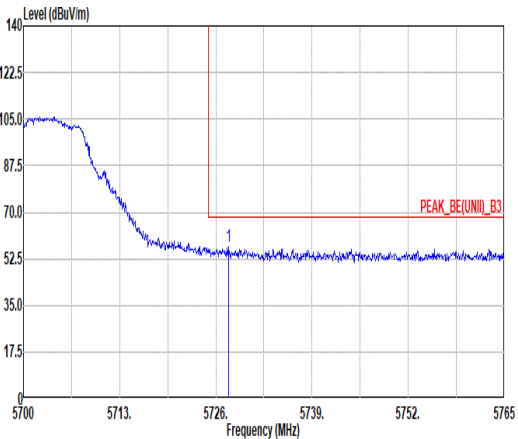
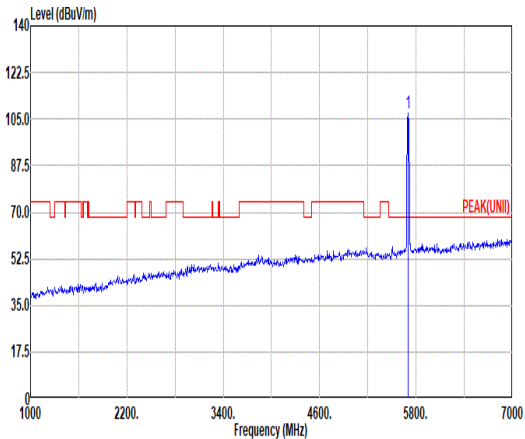
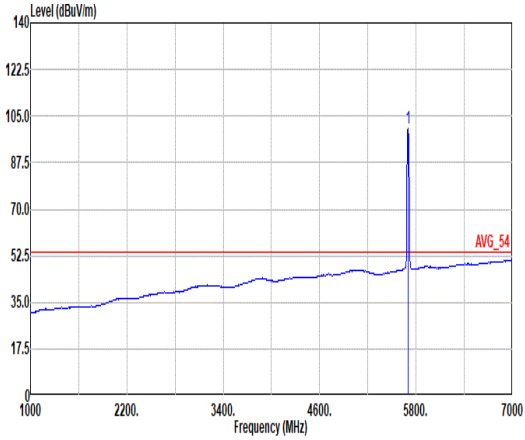


	8	
Mode	Harmonic	
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ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
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Mode	Harmonic	
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Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



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	10	
Mode	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH36_5180MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



Mode	13																																																																																													
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	13	
Mode	Harmonic	
	U-NII-2A_5.25-5.35_802.11ax HE20_CH52_5260MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
	17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>



Mode	14																																																																																																																								
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ANT	1	
Pol.	Horizontal	Vertical
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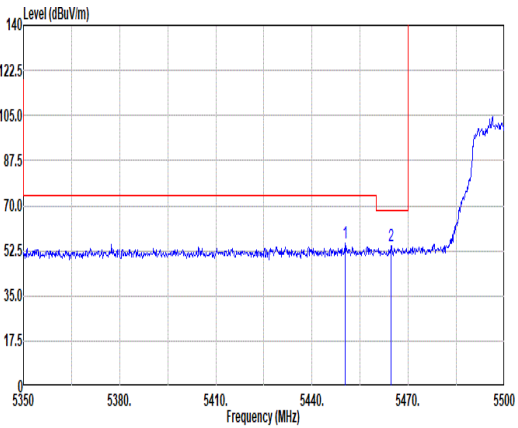
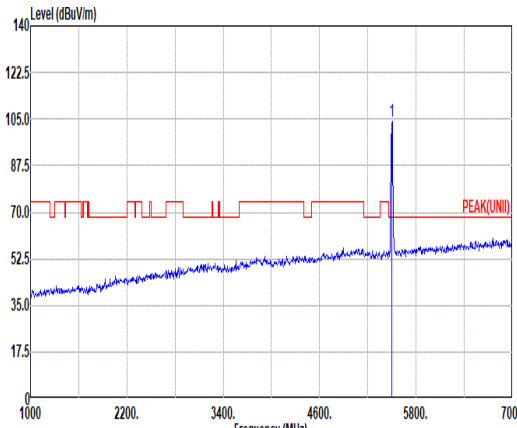
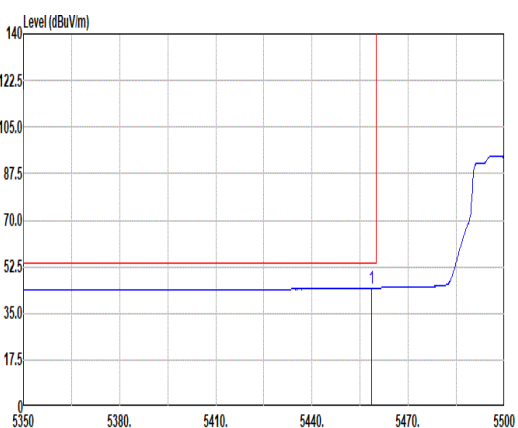
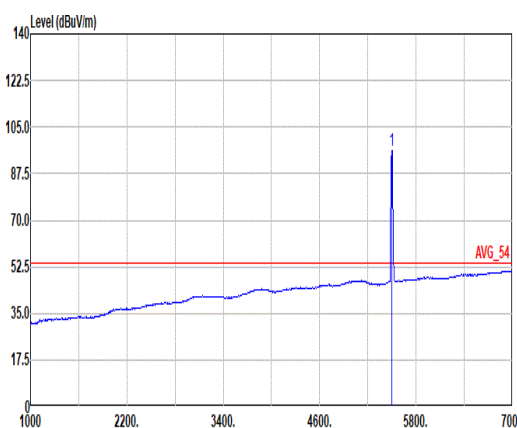


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Mode	Harmonic	
	U-NII-2A_5.25-5.35_802.11ax HE20_CH64_5320MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL</p>
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	16	
Mode	Harmonic	
	U-NII-2C_5.47-5.725_802.11ax HE20_CH100_5500MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



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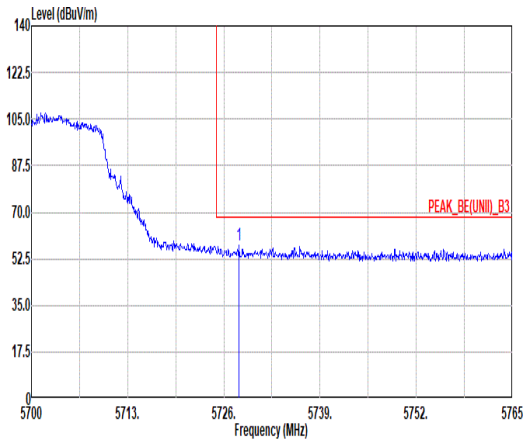
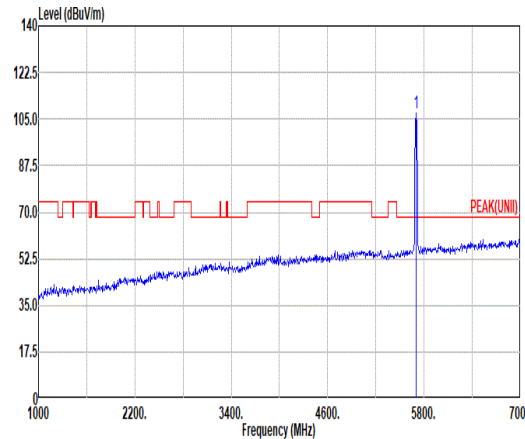
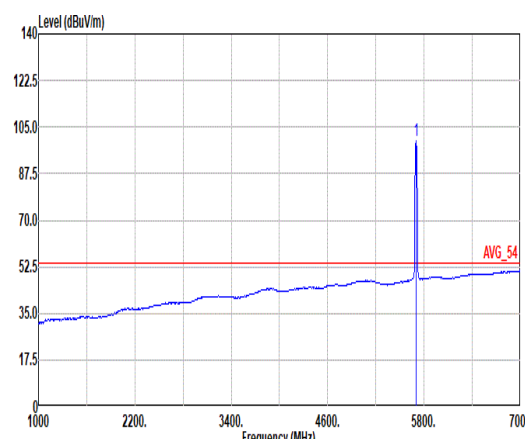


	17	
Mode	Harmonic	
	U-NII-2C_5.47-5.725_802.11ax HE20_CH116_5580MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
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Mode	18																																																																															
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Mode	Harmonic	
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ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
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	20	
Mode	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_5230MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
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Mode	21																																																																															
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Pol.	Horizontal	Vertical																																																																														
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	21	
Mode	Harmonic	
	U-NII-2A_5.25-5.35_802.11ax HE40_CH54_5270MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>

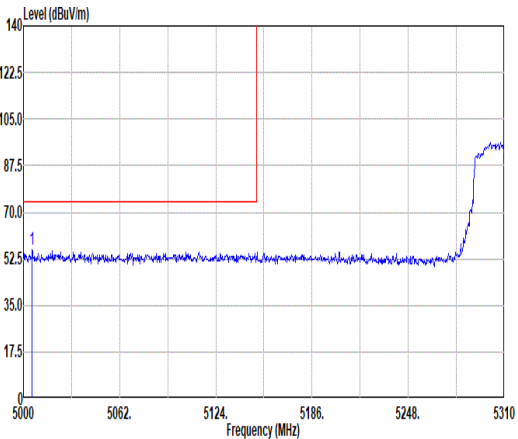
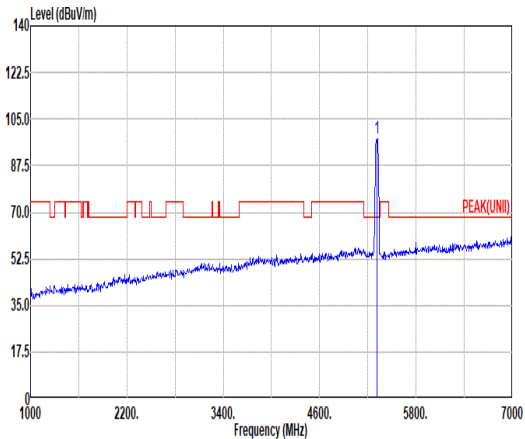
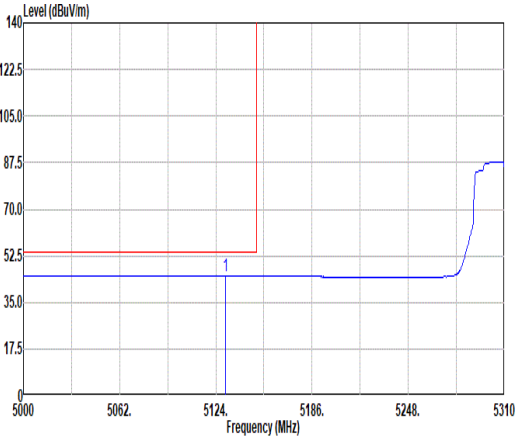
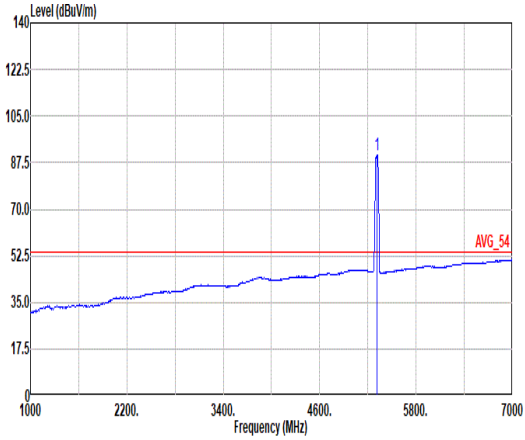


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ANT	1	
Pol.	Horizontal	Vertical
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	23	
Mode	Harmonic	
	U-NII-2C_5.47-5.725_802.11ax HE40_CH102_5510MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>

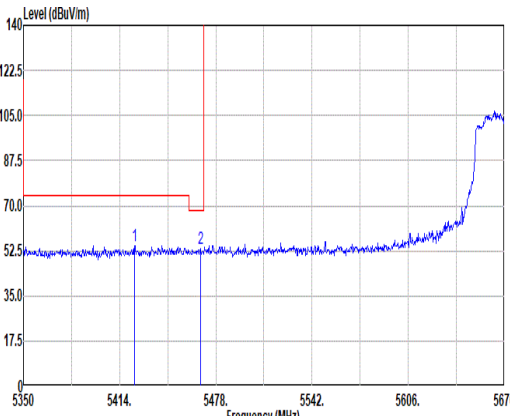
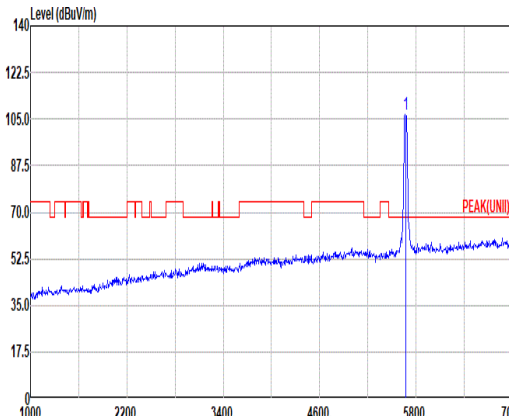
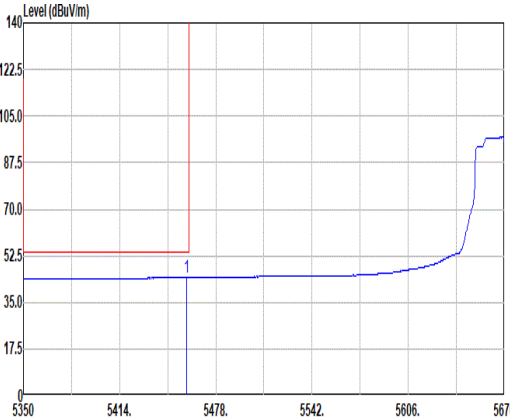
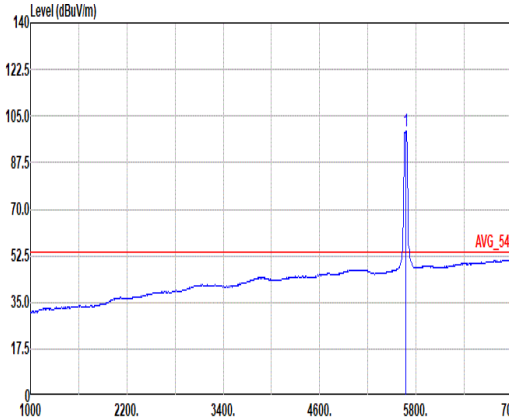


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	24	
Mode	Harmonic	
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ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>
17.7G ~18G Avg.	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL</p>



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Peak	<p>Site : 03CH16-HY Condition: PEAK_BE(UNII)_B3 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p> <table border="1"> <thead> <tr> <th rowspan="2">Limit</th> <th rowspan="2">Read</th> <th rowspan="2">Ant</th> <th rowspan="2">Cable</th> <th rowspan="2">Preamp</th> <th rowspan="2">Aux</th> <th rowspan="2">APos</th> <th rowspan="2">TPos</th> <th rowspan="2">Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Factor</th> <th>Loss Factor</th> <th>Factor</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5726.81</td> <td>61.13</td> <td>68.20</td> <td>-7.07</td> <td>45.30</td> <td>33.45</td> <td>11.78</td> <td>29.40</td> <td>0.00</td> <td>107</td> <td>78</td> <td>PEAK</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor	cm	deg	1	5726.81	61.13	68.20	-7.07	45.30	33.45	11.78	29.40	0.00	107	78	PEAK	Blank
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