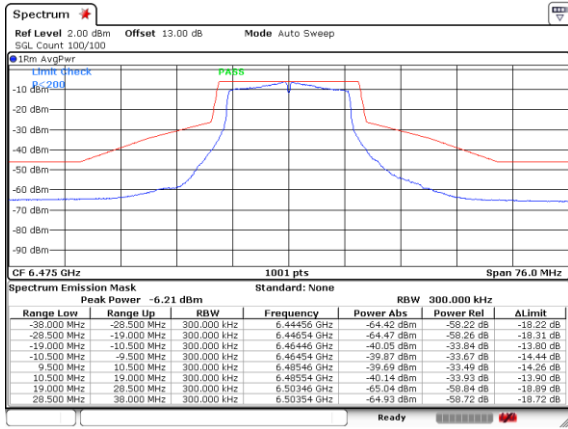


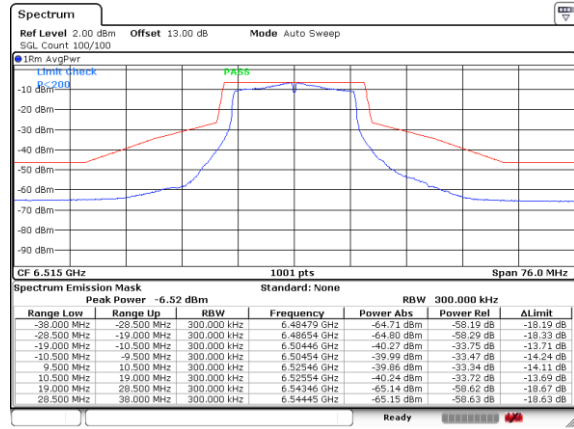


Plot on Channel 6475MHz



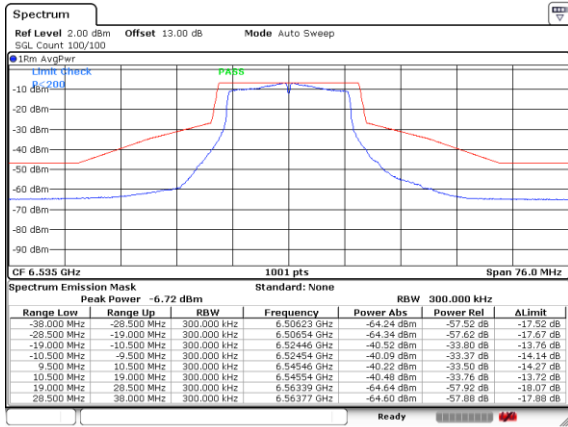
Date: 31.MAY.2024 16:21:19

Plot on Channel 6515MHz



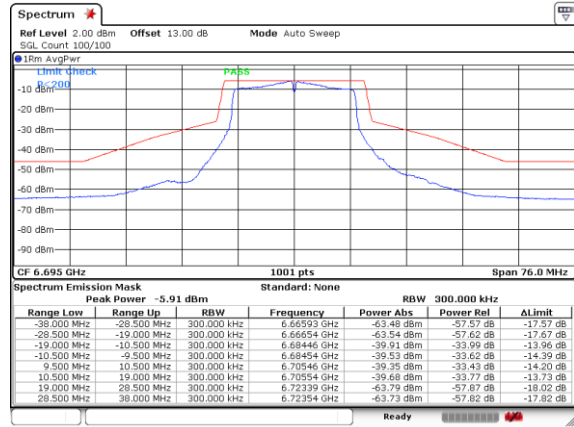
Date: 31.MAY.2024 16:22:12

Plot on Channel 6535MHz



Date: 31.MAY.2024 16:24:06

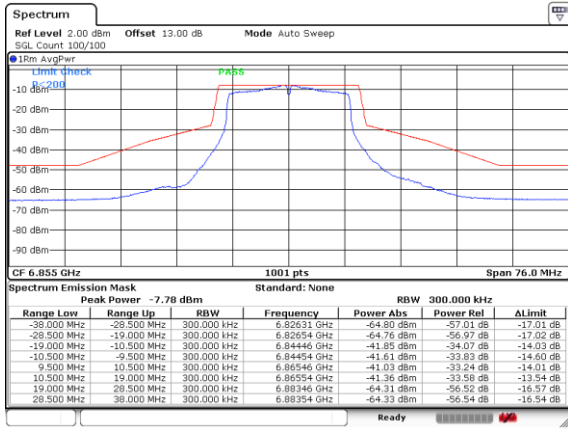
Plot on Channel 6695MHz



Date: 31.MAY.2024 16:24:54

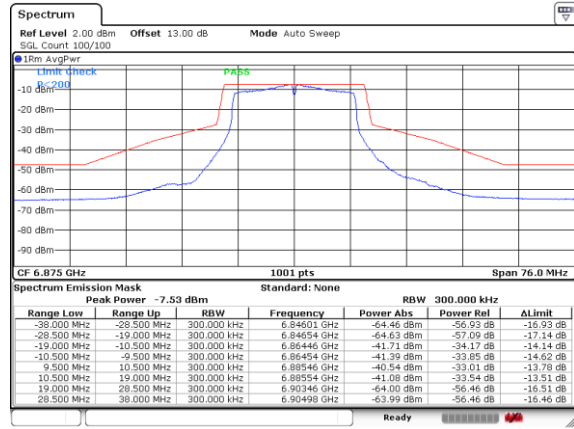


Plot on Channel 6855MHz



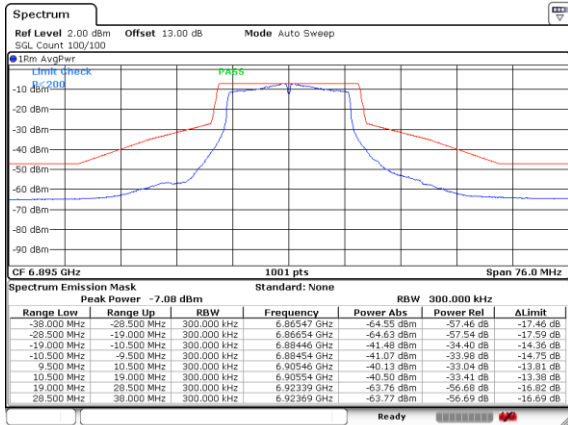
Date: 31.MAY.2024 16:26:40

Plot on Channel 6875MHz



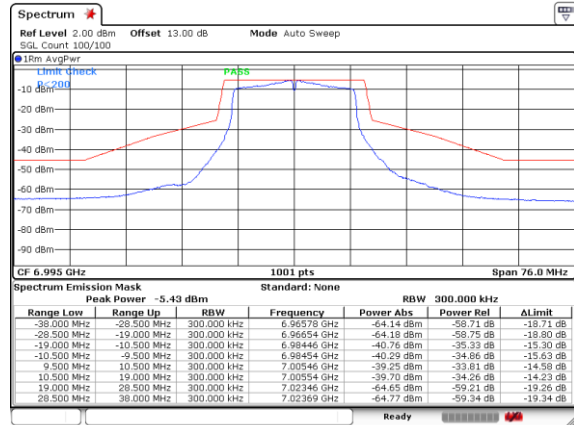
Date: 31.MAY.2024 16:27:32

Plot on Channel 6895MHz



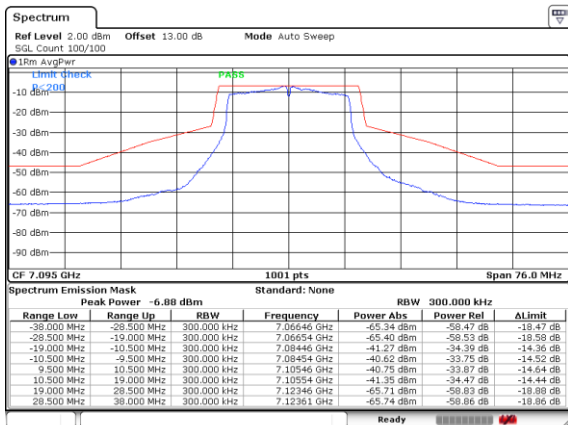
Date: 31.MAY.2024 16:29:17

Plot on Channel 6995MHz



Date: 31.MAY.2024 16:31:41

Plot on Channel 7095MHz

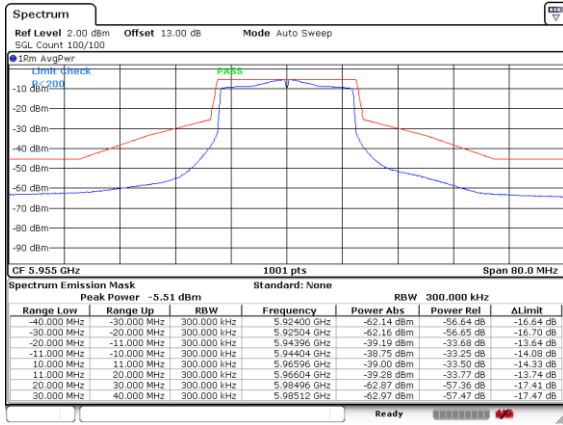


Date: 31.MAY.2024 16:32:25



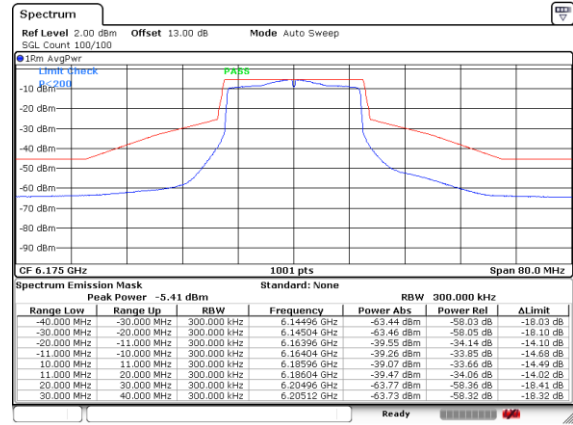
EUT Mode : 802.11ax HE20

Plot on Channel 5955MHz



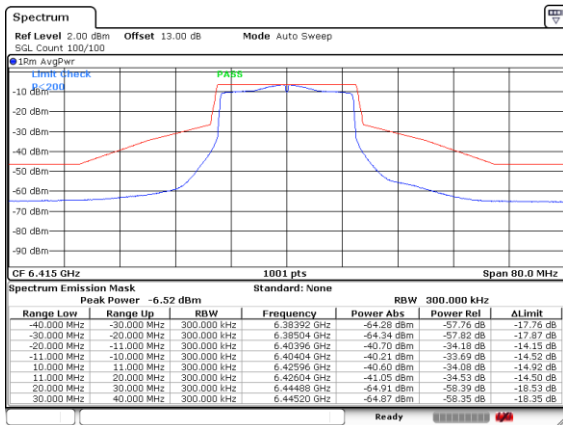
Date: 7.MAY.2024 14:15:49

Plot on Channel 6175MHz



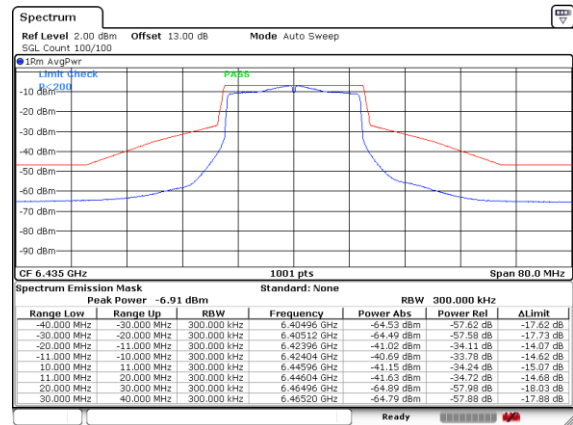
Date: 7.MAY.2024 14:17:35

Plot on Channel 6415MHz



Date: 7.MAY.2024 14:20:41

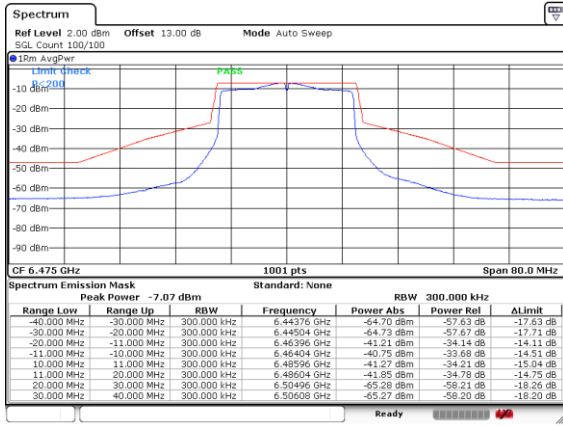
Plot on Channel 6435MHz



Date: 7.MAY.2024 15:11:06

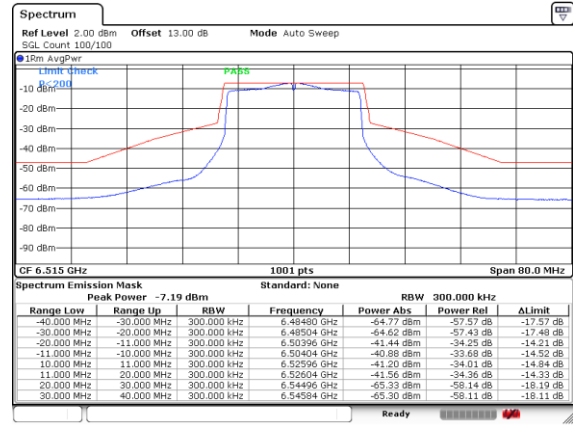


Plot on Channel 6475MHz



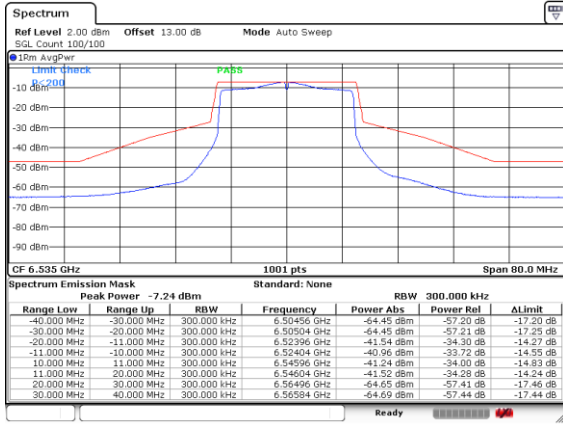
Date: 7.MAY.2024 15:15:13

Plot on Channel 6515MHz



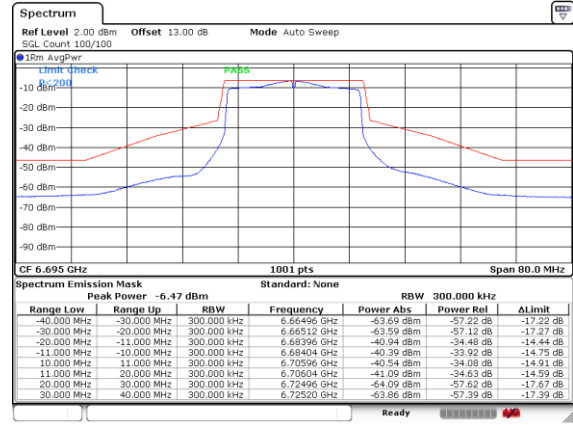
Date: 7.MAY.2024 15:18:58

Plot on Channel 6535MHz



Date: 7.MAY.2024 15:26:44

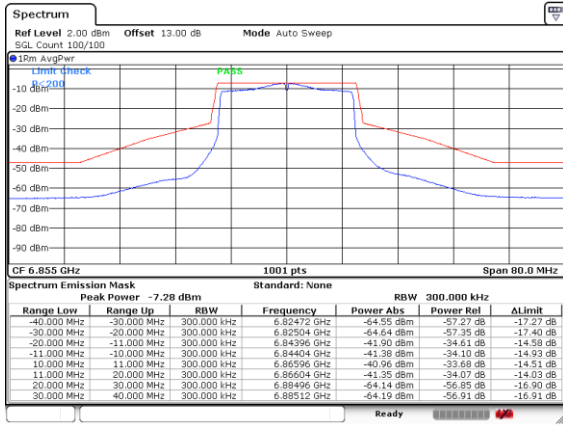
Plot on Channel 6695MHz



Date: 7.MAY.2024 15:31:41

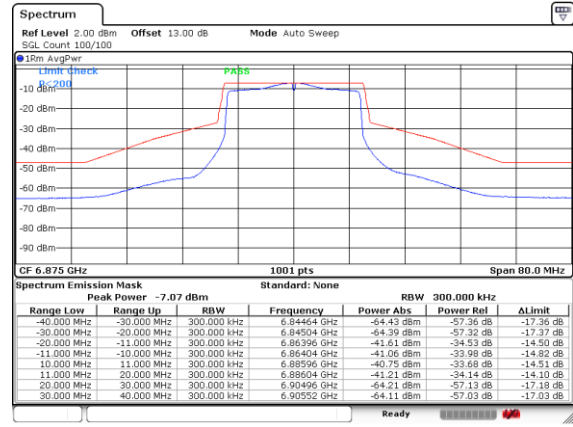


Plot on Channel 6855MHz



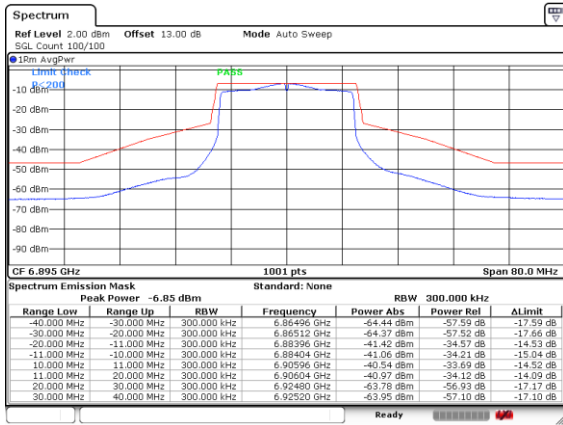
Date: 7.MAY.2024 15:35:26

Plot on Channel 6875MHz



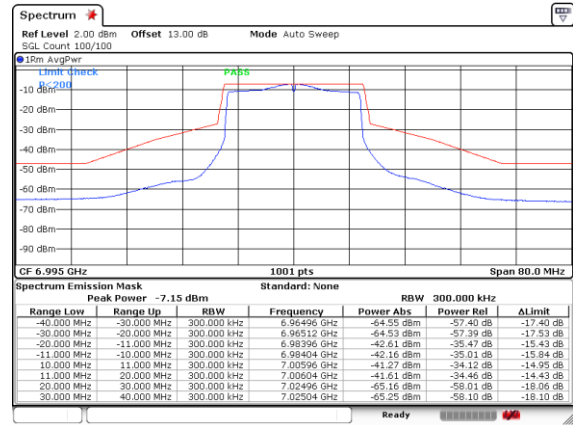
Date: 7.MAY.2024 15:13:41

Plot on Channel 6895MHz



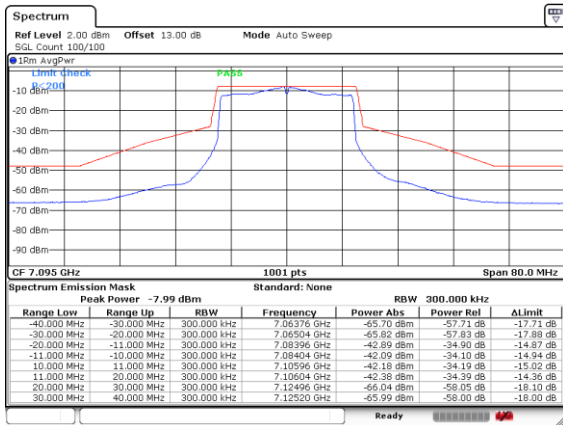
Date: 7.MAY.2024 15:14:14

Plot on Channel 6995MHz



Date: 7.MAY.2024 15:14:55

Plot on Channel 7095MHz

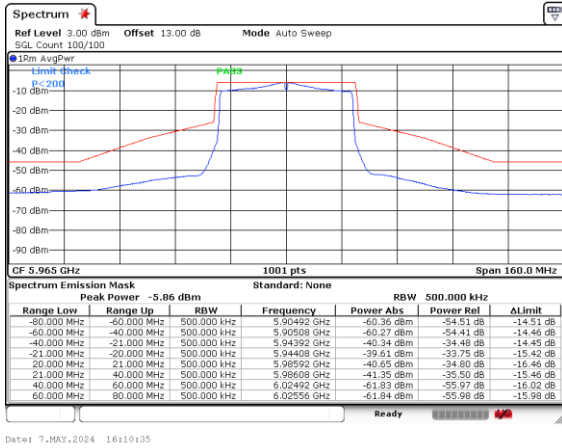


Date: 7.MAY.2024 15:52:14

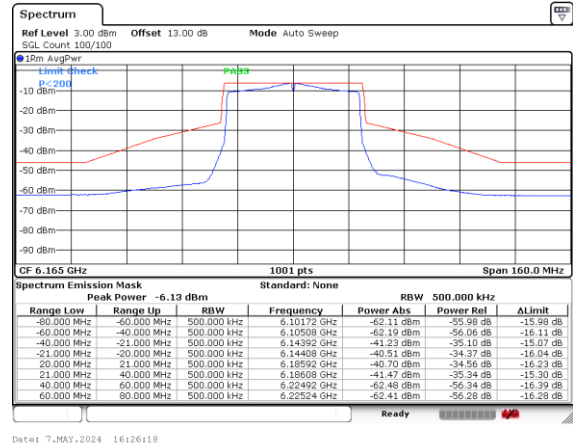


EUT Mode : 802.11ax HE40

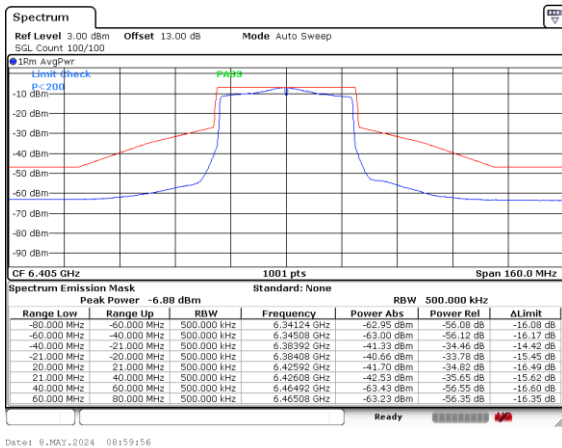
Plot on Channel 5965MHz



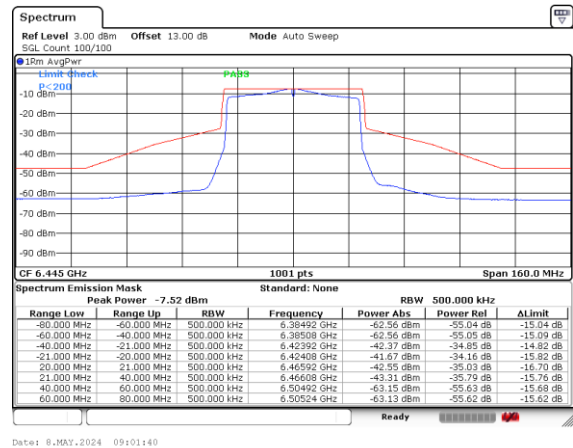
Plot on Channel 6165MHz



Plot on Channel 6405MHz

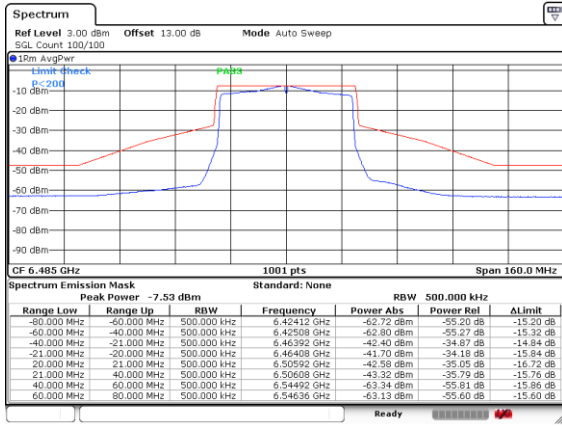


Plot on Channel 6445MHz



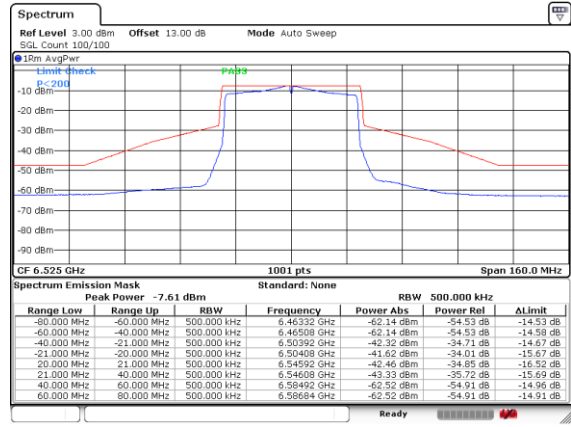


Plot on Channel 6485MHz



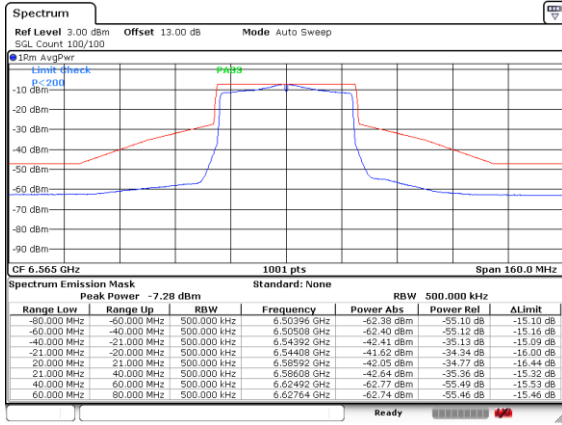
Date: 8.MAY.2024 09:05:46

Plot on Channel 6525MHz



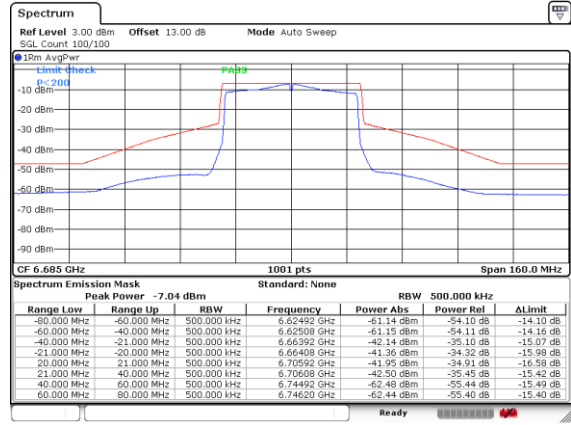
Date: 8.MAY.2024 09:08:47

Plot on Channel 6565MHz



Date: 8.MAY.2024 09:13:30

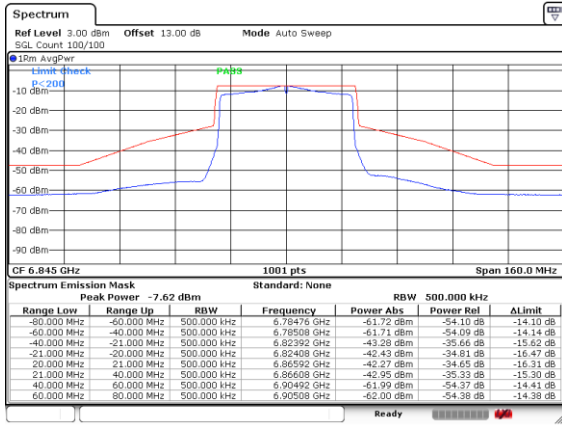
Plot on Channel 6685MHz



Date: 8.MAY.2024 09:21:28

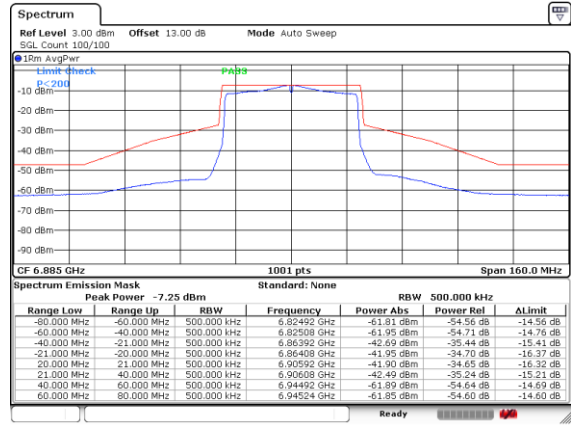


Plot on Channel 6845MHz



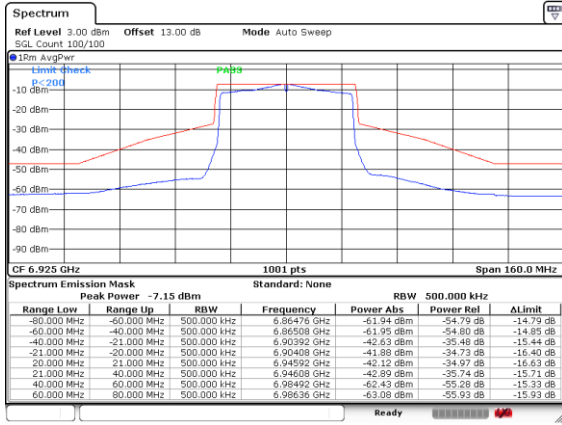
Date: 8.MAY.2024 09:26:10

Plot on Channel 6885MHz



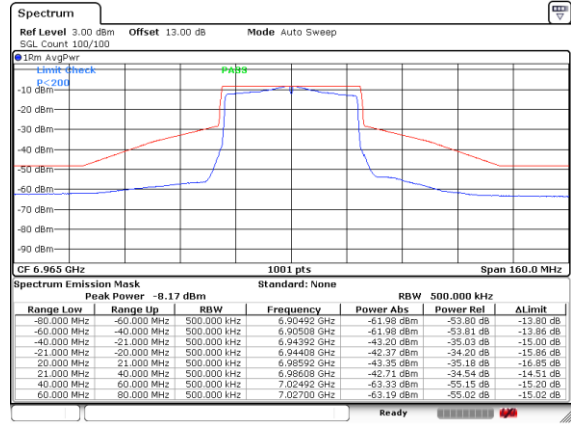
Date: 8.MAY.2024 09:13:19

Plot on Channel 6925MHz



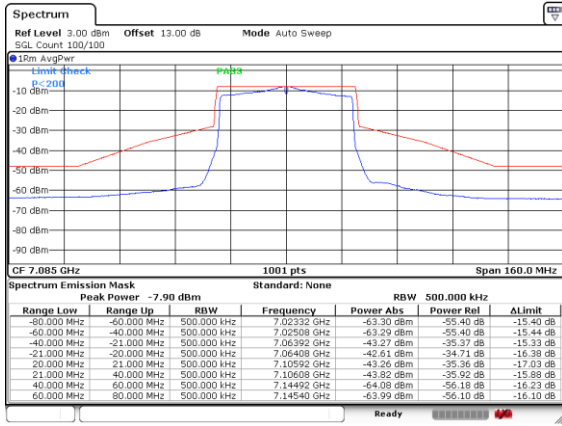
Date: 8.MAY.2024 09:15:13

Plot on Channel 6965MHz



Date: 8.MAY.2024 09:15:108

Plot on Channel 7085MHz

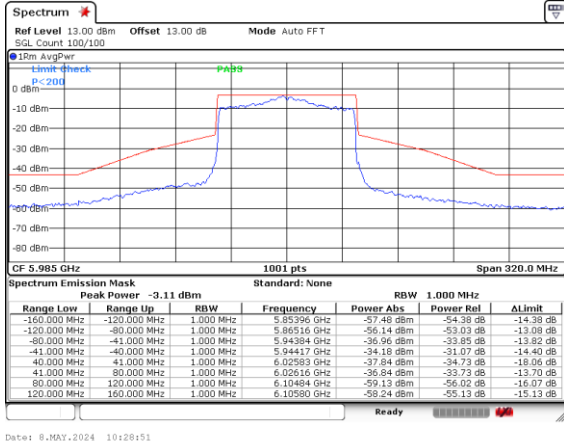


Date: 8.MAY.2024 10:00:27



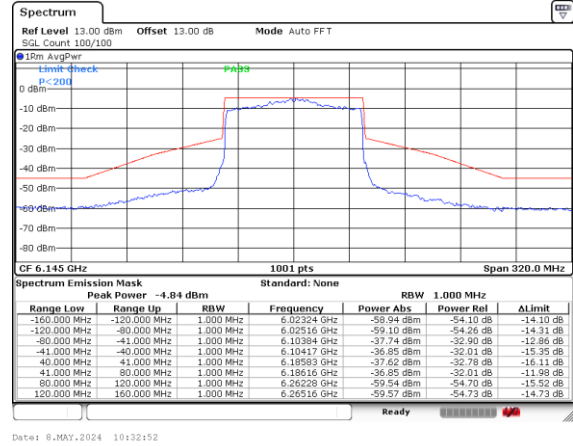
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



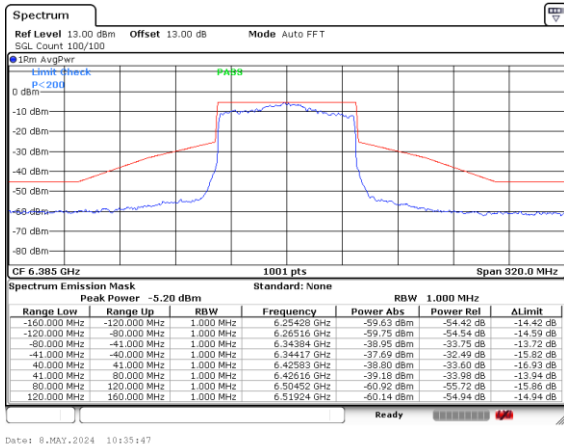
Date: 8.MAY.2024 10:28:51

Plot on Channel 6145MHz



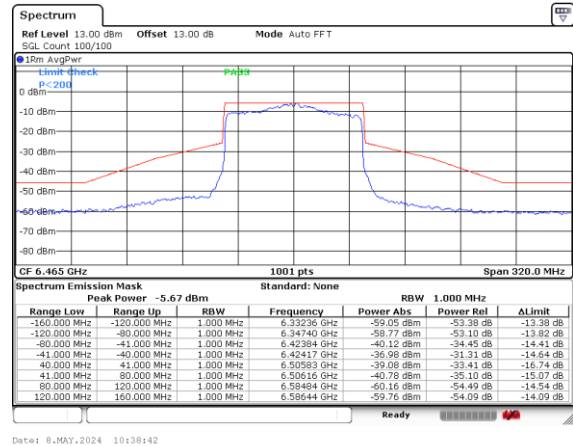
Date: 8.MAY.2024 10:32:52

Plot on Channel 6385MHz



Date: 8.MAY.2024 10:35:47

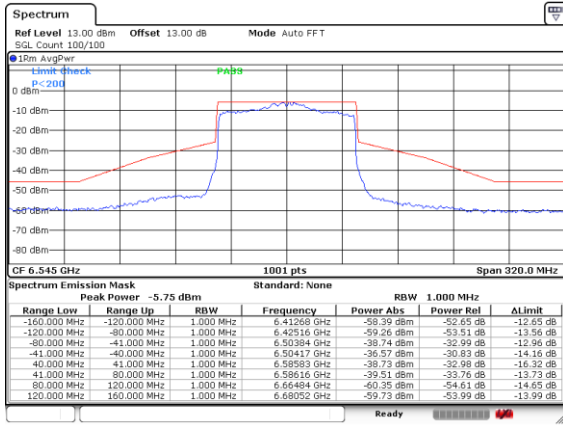
Plot on Channel 6465MHz



Date: 8.MAY.2024 10:38:42

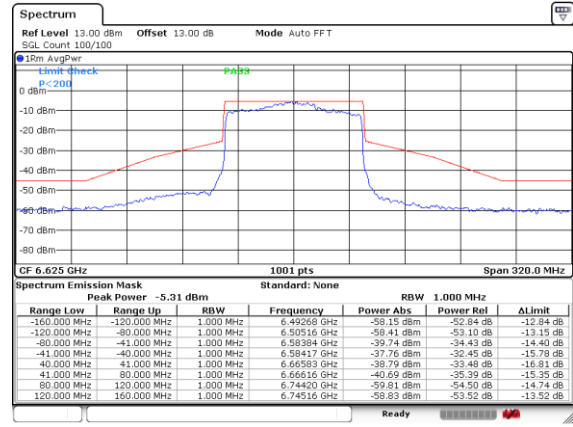


Plot on Channel 6545MHz



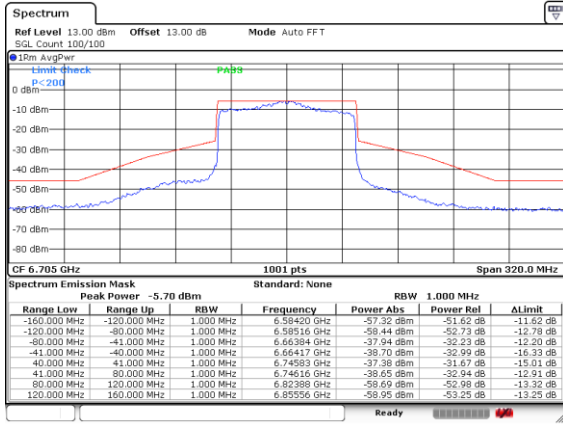
Date: 8.MAY.2024 10:41:33

Plot on Channel 6625MHz



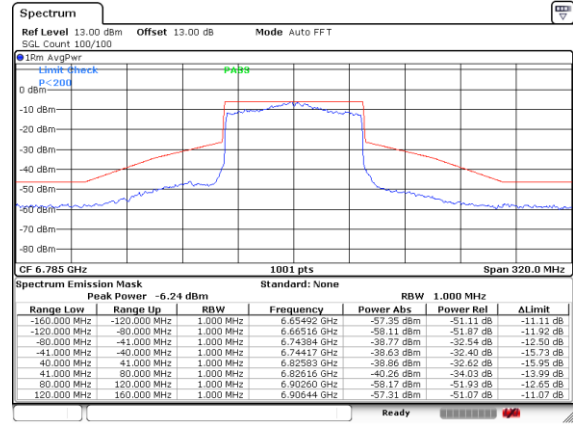
Date: 8.MAY.2024 10:47:09

Plot on Channel 6705MHz



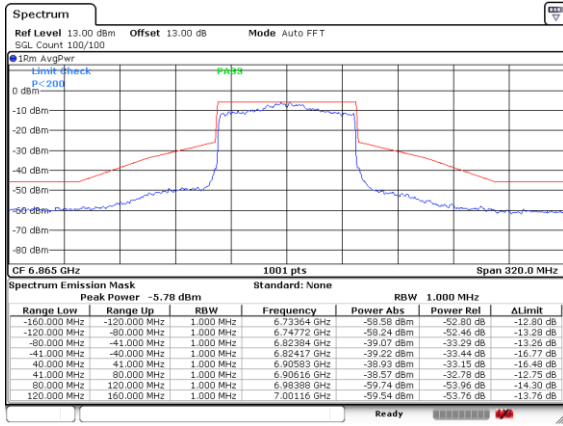
Date: 8.MAY.2024 10:50:24

Plot on Channel 6785MHz



Date: 8.MAY.2024 10:56:37

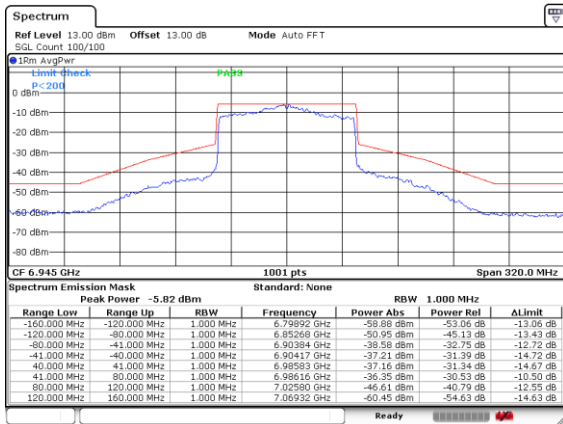
Plot on Channel 6865MHz



Date: 8.MAY.2024 10:59:33

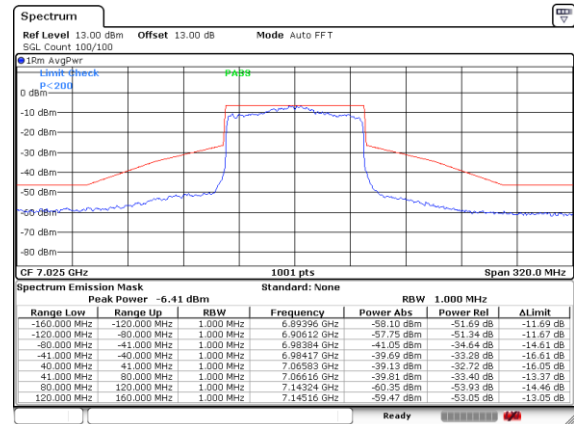


Plot on Channel 6945MHz



Date: 8.MAY.2024 11:22:57

Plot on Channel 7025MHz

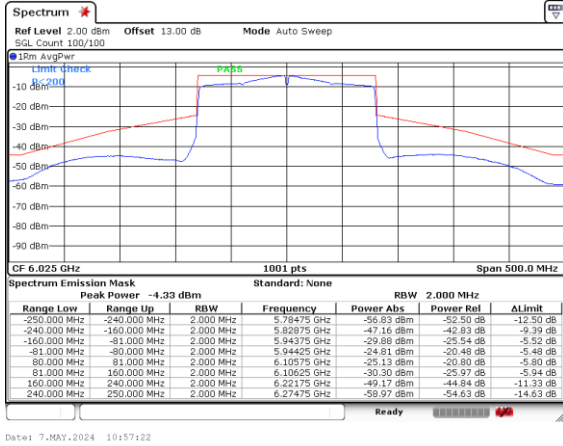


Date: 8.MAY.2024 11:07:13



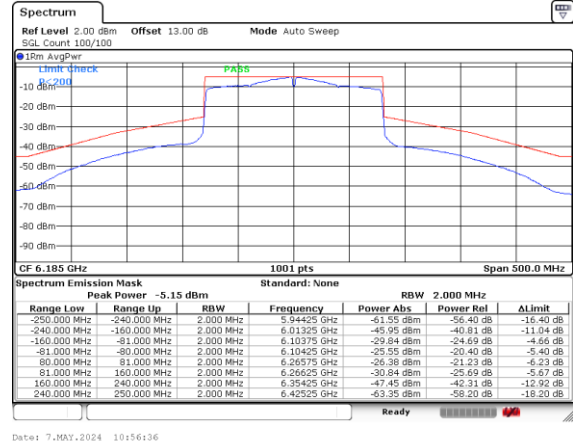
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



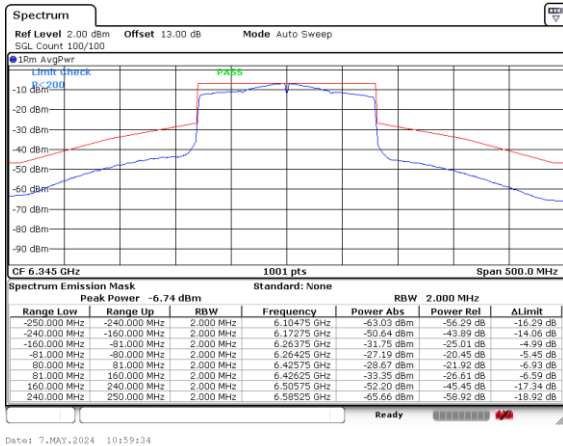
Date: 7.MAY.2024 10:57:22

Plot on Channel 6185MHz



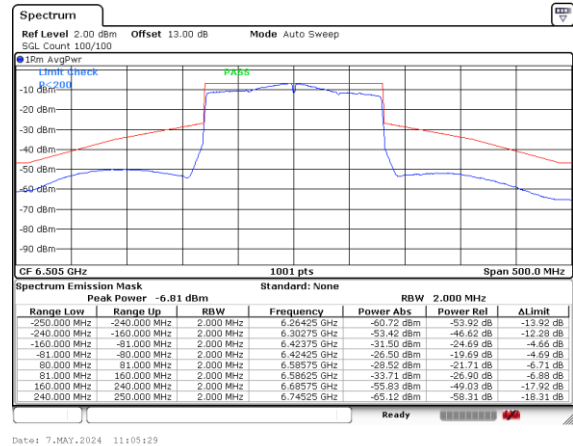
Date: 7.MAY.2024 10:56:36

Plot on Channel 6345MHz



Date: 7.MAY.2024 10:59:34

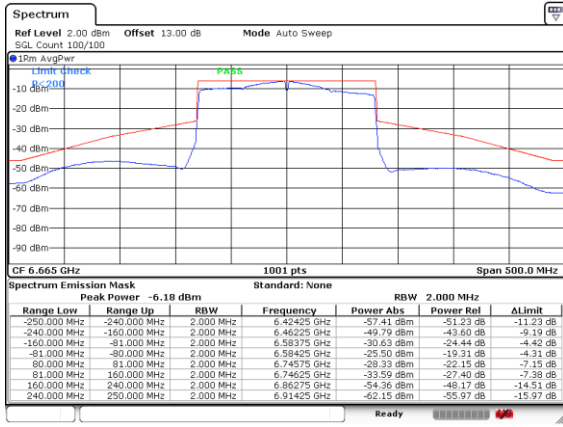
Plot on Channel 6505MHz



Date: 7.MAY.2024 11:05:29

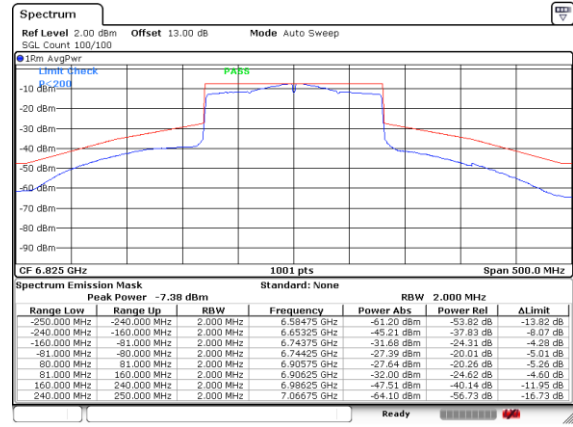


Plot on Channel 6665MHz



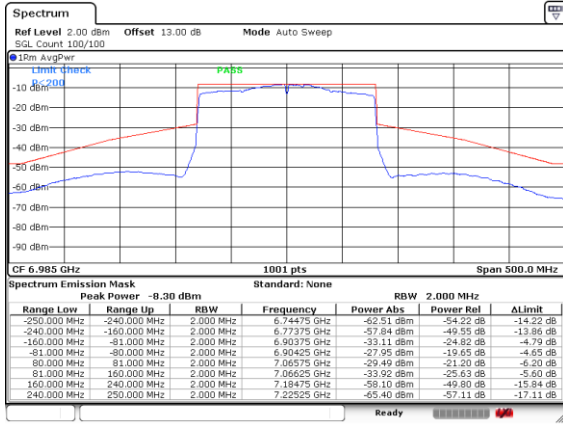
Date: 7.MAY.2024 11:07:44

Plot on Channel 6825MHz



Date: 7.MAY.2024 11:08:42

Plot on Channel 6985MHz



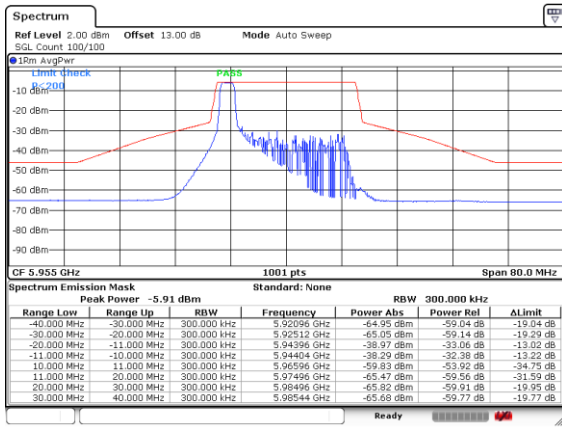
Date: 7.MAY.2024 11:12:38



<802.11ax Partial RU>

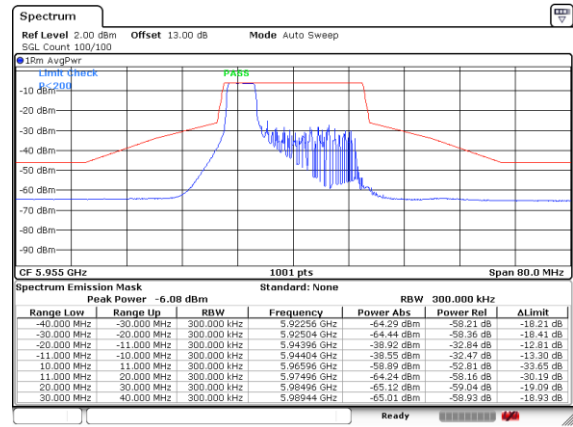
EUT Mode : 802.11ax HE20

Plot on Channel 5955MHz_ 26RU0



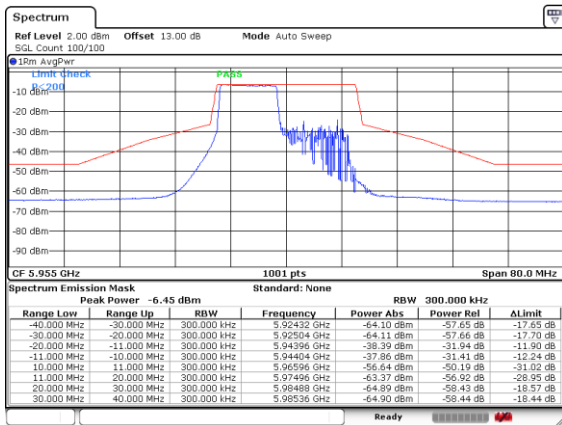
Date: 8.MAY.2024 14:25:19

Plot on Channel 5955MHz_ 52RU37



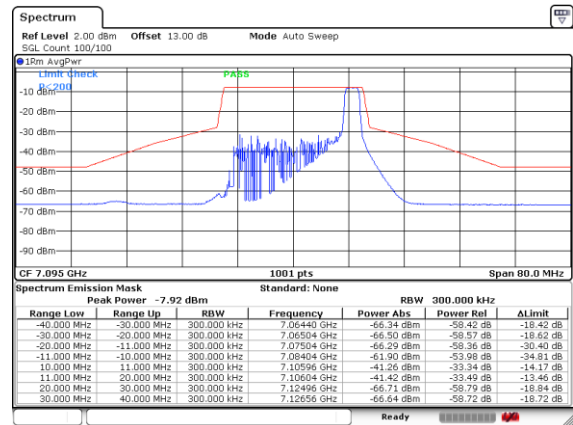
Date: 8.MAY.2024 14:29:43

Plot on Channel 5955MHz_ 106RU53



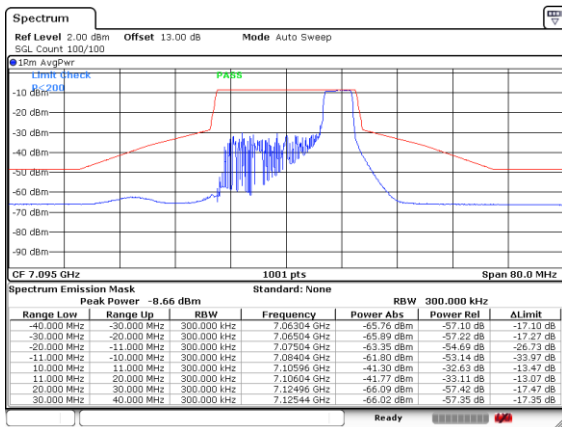
Date: 8.MAY.2024 14:33:03

Plot on Channel 7095MHz_ 26RU8



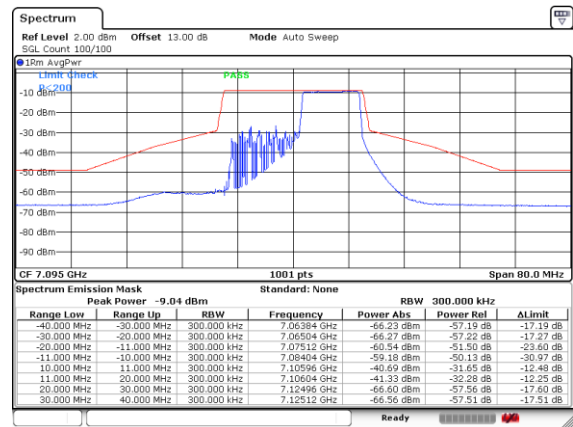
Date: 8.MAY.2024 14:43:19

Plot on Channel 7095MHz_ 52RU40



Date: 8.MAY.2024 14:57:59

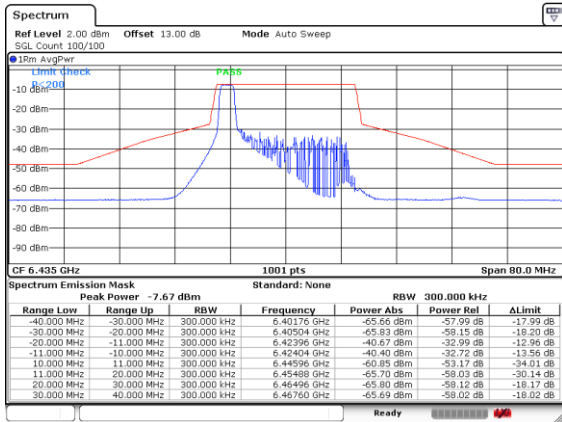
Plot on Channel 7095MHz_ 106RU54



Date: 8.MAY.2024 15:02:33

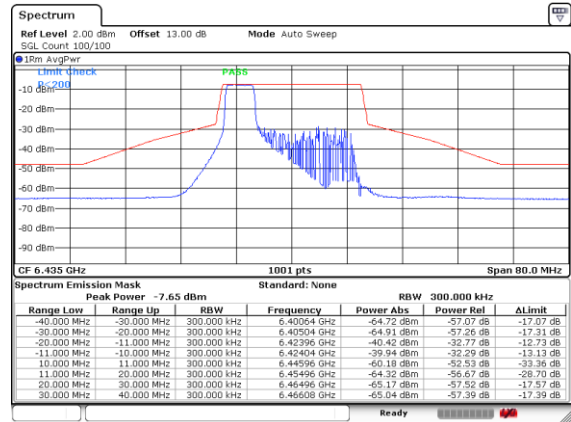


Plot on Channel 6435MHz_26RU0



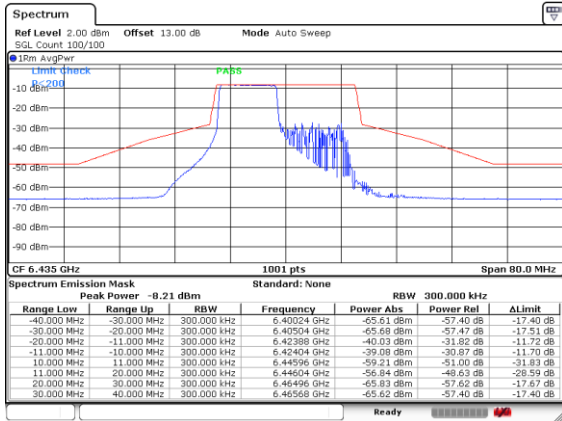
Date: 4 JUN 2024 13:05:19

Plot on Channel 6435MHz_52RU37



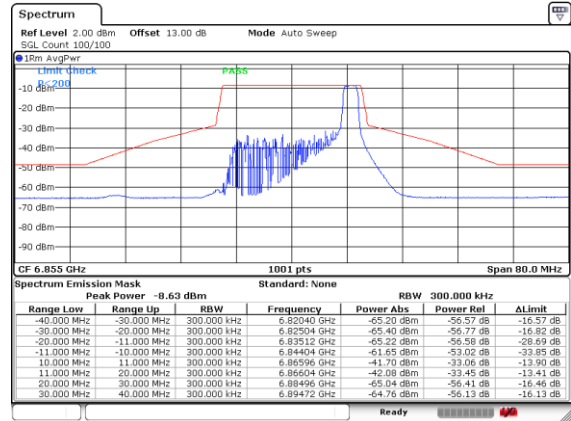
Date: 4 JUN 2024 13:10:55

Plot on Channel 6435MHz_106RU53



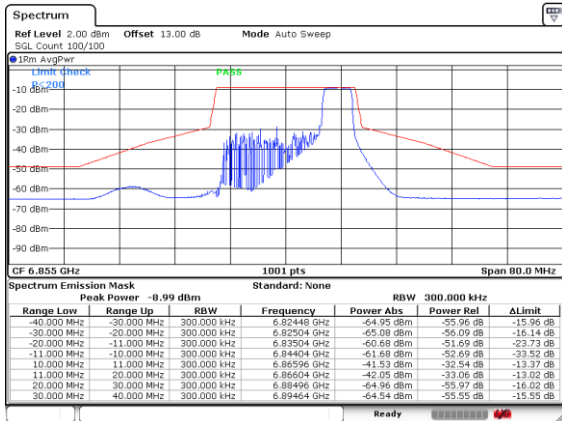
Date: 4 JUN 2024 13:13:31

Plot on Channel 6855MHz_26RU8



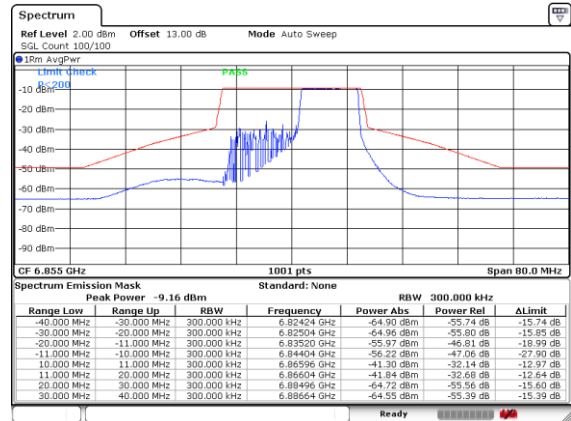
Date: 4 JUN 2024 13:20:20

Plot on Channel 6855MHz_52RU40



Date: 4 JUN 2024 13:23:19

Plot on Channel 6855MHz_106RU54



Date: 4 JUN 2024 13:25:42



3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

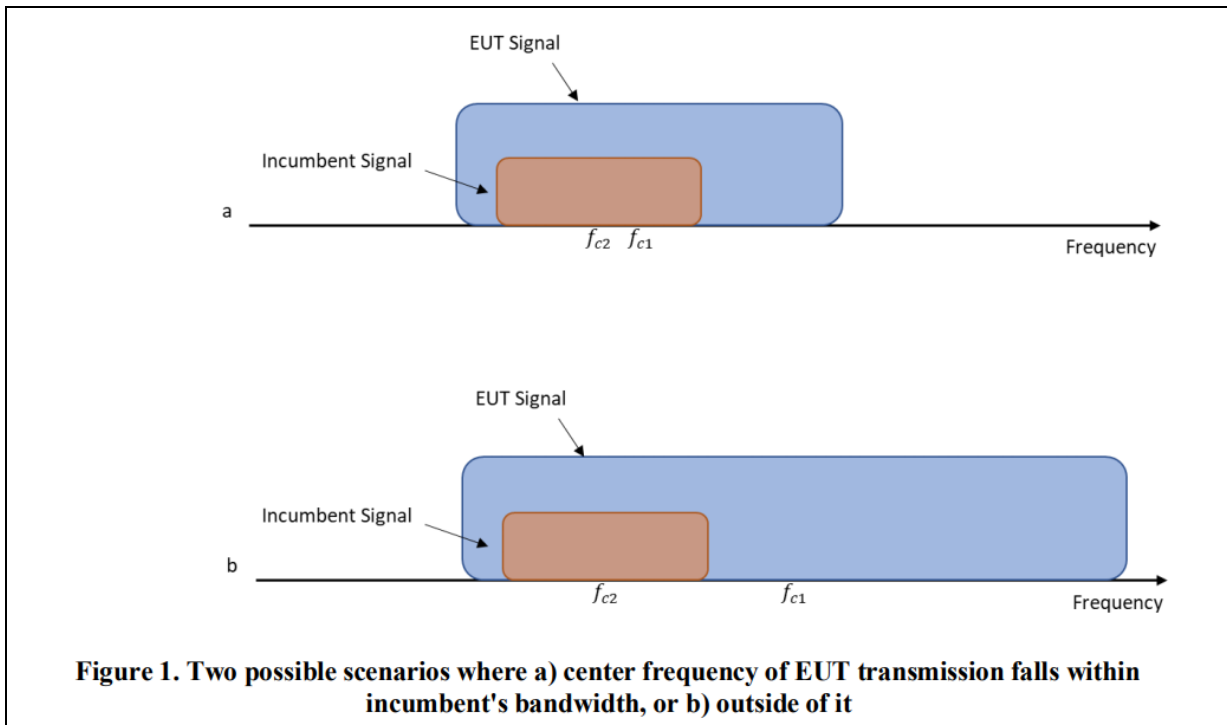
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

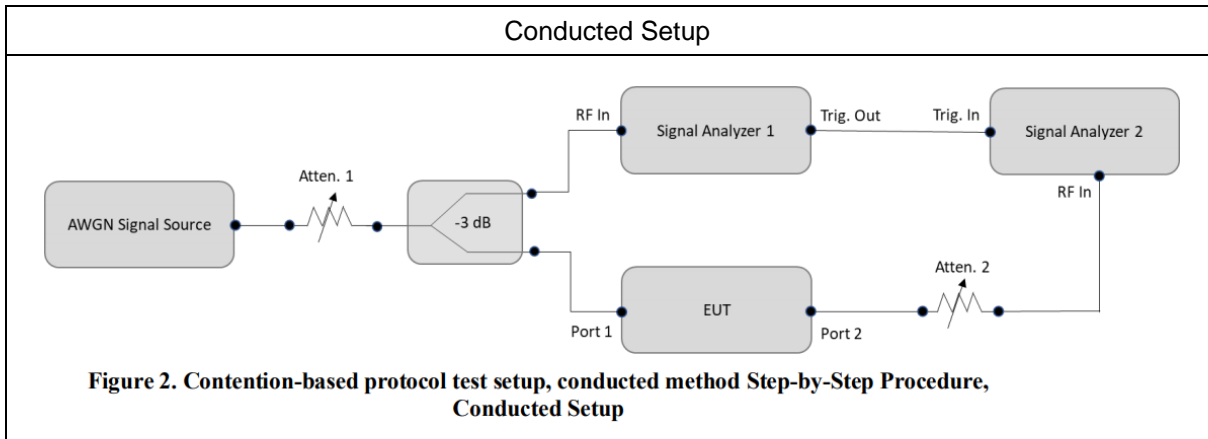
3.5.3 Test Procedures

1. To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency f_{c2}) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed
2. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
3. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
4. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
5. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 2, choose a different center

frequency for the AWGN signal and repeat the process.

6. EUT was driven in MIMO mode, the interferer signal was injected to both chains to monitor the performance, while the interferer level is determined according to the lowest antenna gain among both antennas.

3.5.4 Test Setup



3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN



3.5.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)		
UNII Band 5	6135	20	6135	-78.06	100	-62	-69.56	7.56		
				Result: Stop Transmission						
				-79.06	<90	-62	-70.56	8.56		
				Result: Minimal Operation						
				-80.06	=0	-62	-71.56	9.56		
				Result: Normal Operation						
	6185	160	6110	-75.75	100	-62	-67.25	5.25		
				Result: Stop Transmission						
				-76.75	<90	-62	-68.25	6.25		
			Result: Minimal Operation							
			-77.75	=0	-62	-69.25	7.25			
			Result: Normal Operation							
			6185	160	6185	-74.98	100	-62	-66.48	4.48
						Result: Stop Transmission				
						-75.98	<90	-62	-67.48	5.48
	Result: Minimal Operation									
	-76.98	=0	-62	-68.48	6.48					
	Result: Normal Operation									
6260	160	6260	-74.16	100	-62	-65.66	3.66			
			Result: Stop Transmission							
			-75.16	<90	-62	-66.66	4.66			
Result: Minimal Operation										
-76.16	=0	-62	-67.66	5.66						
Result: Normal Operation										

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 8, gain= -8.5dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)	
UNII Band 6	6455	20	6455	-77.15	100	-62	-68.65	6.65	
				Result: Stop Transmission					
				-78.15	<90	-62	-69.65	7.65	
				Result: Minimal Operation					
				-79.15	=0	-62	-70.65	8.65	
				Result: Normal Operation					
	6505	160	6430	-74.90	100	-62	-66.40	4.40	
				Result: Stop Transmission					
				-75.90	<90	-62	-67.40	5.40	
				Result: Minimal Operation					
				-76.90	=0	-62	-68.40	6.40	
				Result: Normal Operation					
			6580	6505	-75.63	100	-62	-67.13	5.13
					Result: Stop Transmission				
					-76.63	<90	-62	-68.13	6.13
					Result: Minimal Operation				
					-77.63	=0	-62	-69.13	7.13
					Result: Normal Operation				
6580	6580	-79.74	100	-62	-71.24	9.24			
		Result: Stop Transmission							
		-80.74	<90	-62	-72.24	10.24			
		Result: Minimal Operation							
		-81.74	=0	-62	-73.24	11.24			
		Result: Normal Operation							

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 8, gain= -8.5dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-72.79	100	-62	-64.29	2.29
				Result: Stop Transmission				
				-73.79	<90	-62	-65.29	3.29
				Result: Minimal Operation				
				-74.79	=0	-62	-66.29	4.29
				Result: Normal Operation				
	6665	160	6590	-73.96	100	-62	-65.46	3.46
				Result: Stop Transmission				
				-74.96	<90	-62	-66.46	4.46
				Result: Minimal Operation				
				-75.96	=0	-62	-67.46	5.46
				Result: Normal Operation				
			6740	-72.28 (worst)	100	-62	-63.78	1.78
				Result: Stop Transmission				
				-73.28	<90	-62	-64.78	2.78
				Result: Minimal Operation				
				-74.28	=0	-62	-65.78	3.78
				Result: Normal Operation				
6740	-75.61	100	-62	-67.11	5.11			
	Result: Stop Transmission							
	-76.61	<90	-62	-68.11	6.11			
Result: Minimal Operation								
-77.61	=0	-62	-69.11	7.11				
Result: Normal Operation								

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 8, gain= -8.5dBi)

Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)	
UNII Band 8	7015	20	7015	-73.95	100	-62	-65.45	3.45	
				Result: Stop Transmission					
				-74.95	<90	-62	-66.45	4.45	
				Result: Minimal Operation					
				-75.95	=0	-62	-67.45	5.45	
				Result: Normal Operation					
	6985	160	6910	-73.85	100	-62	-65.35	3.35	
				Result: Stop Transmission					
				-74.85	<90	-62	-66.35	4.35	
				Result: Minimal Operation					
				-75.85	=0	-62	-67.35	5.35	
				Result: Normal Operation					
			7060	7060	-75.10	100	-62	-66.60	4.60
					Result: Stop Transmission				
					-76.10	<90	-62	-67.60	5.60
					Result: Minimal Operation				
					-77.10	=0	-62	-68.60	6.60
					Result: Normal Operation				
7060	7060	-72.80	100	-62	-64.30	2.30			
		Result: Stop Transmission							
		-73.80	<90	-62	-65.30	3.30			
		Result: Minimal Operation							
		-74.80	=0	-62	-66.30	4.30			
		Result: Normal Operation							

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (Antenna 8, gain= -8.5dBi)

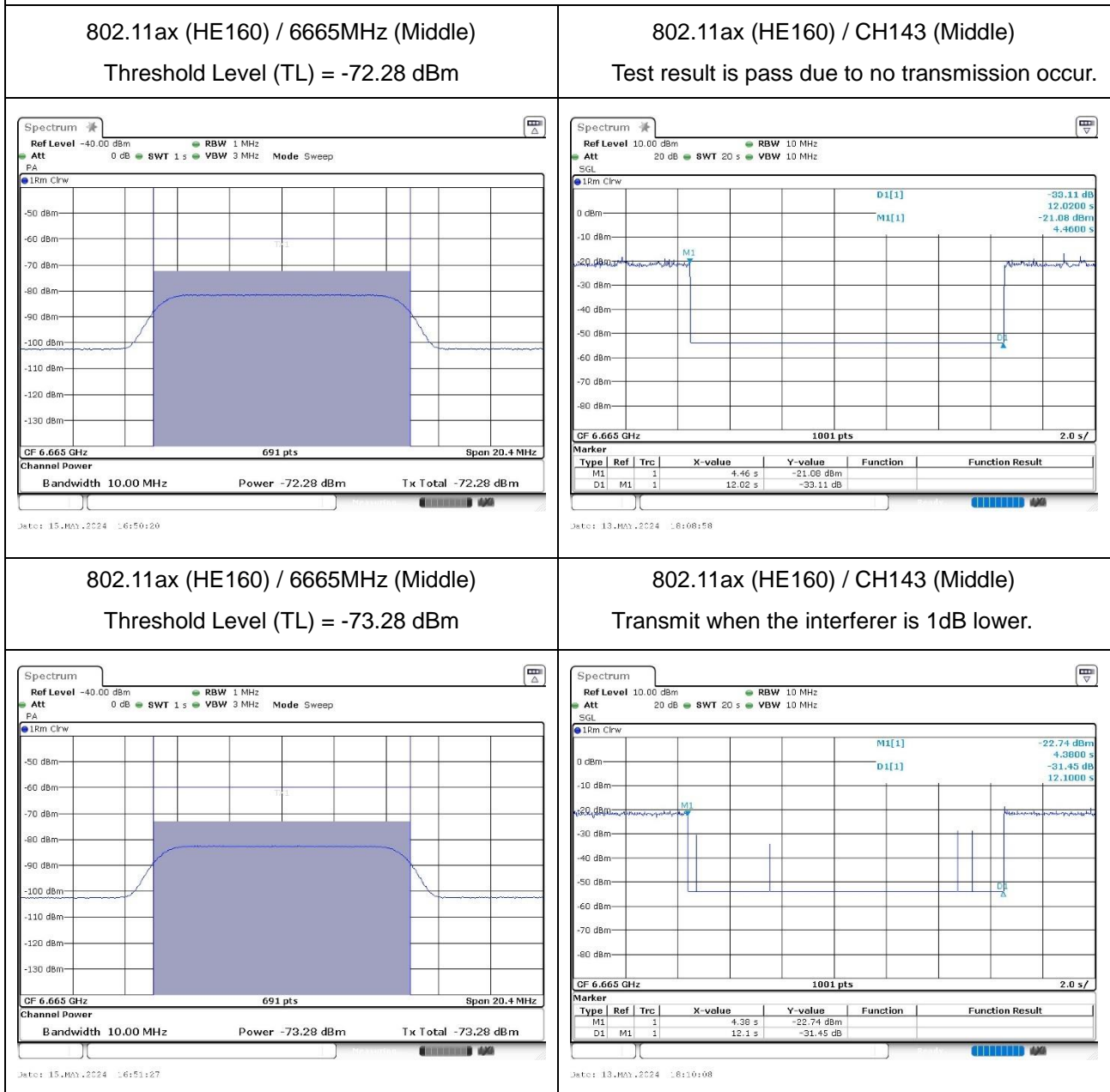
Note 2: Path Loss between antenna and RF connector is negligible. (0 dB)

Note 3: Margin = Regulated Threshold level - Adjusted Power



3.5.7 Worst Case Plots of Contention Based Protocol

Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)



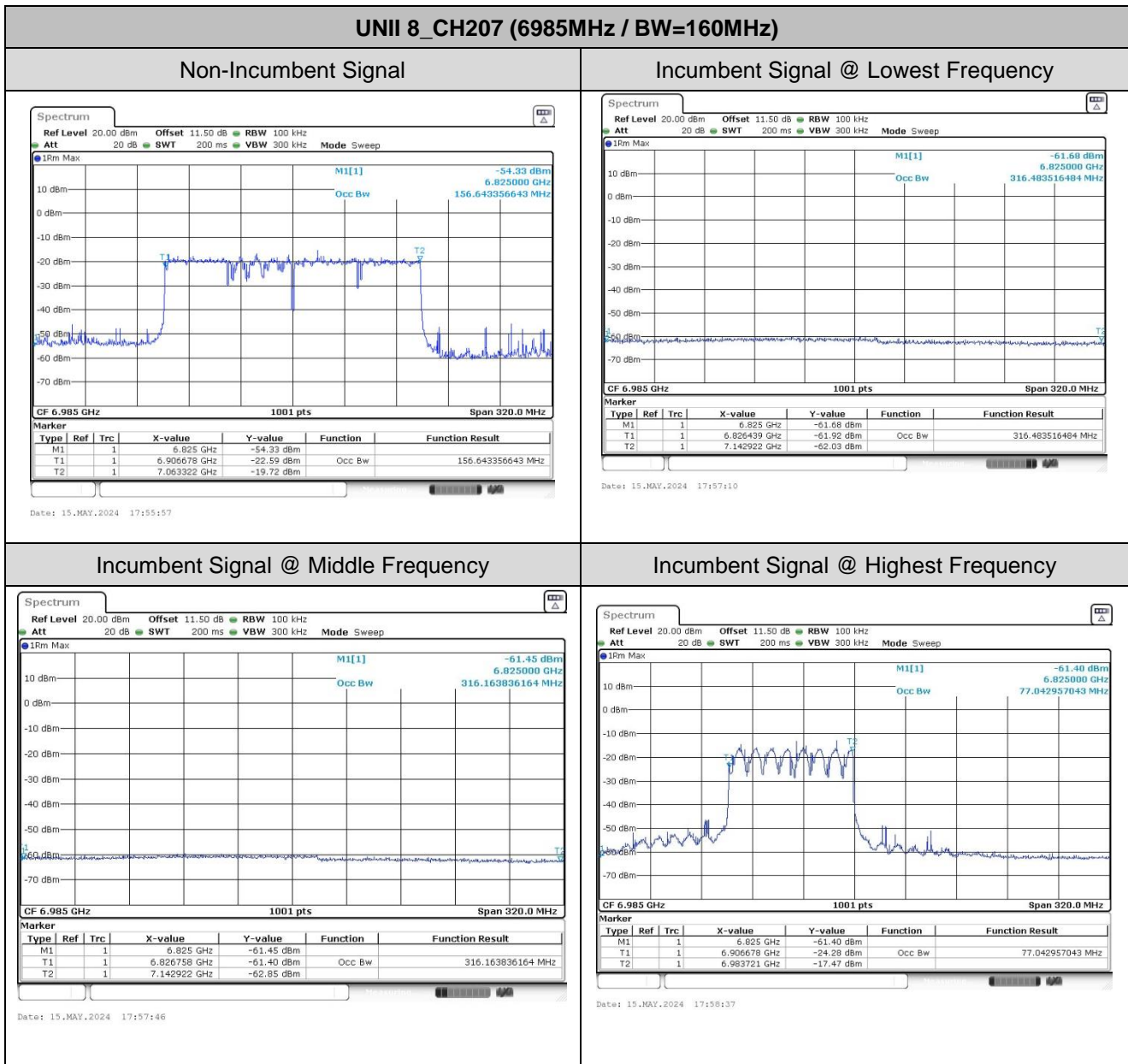
Remark: M1: Injection of AWGN signal, D1: Removal of AWGN signal



3.5.8 Worst Case of Contention Based Protocol Transmission Bandwidth

Verify transmission absence when Incumbent signal at different frequency (frequency domain plots).

1. When Incumbent Signal inject at lowest frequency, the whole 160MHz bandwidth stop transmission;
2. When Incumbent Signal inject at middle frequency, the whole 160MHz bandwidth stop transmission;
3. When Incumbent Signal inject at highest frequency, the transmission bandwidth reduced to 80MHz;
4. This device does not support channel puncturing mode for incumbent avoidance but bandwidth reduction mechanism is supported.





3.6 Unwanted Emissions Measurement

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

3.6.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

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

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

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

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

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

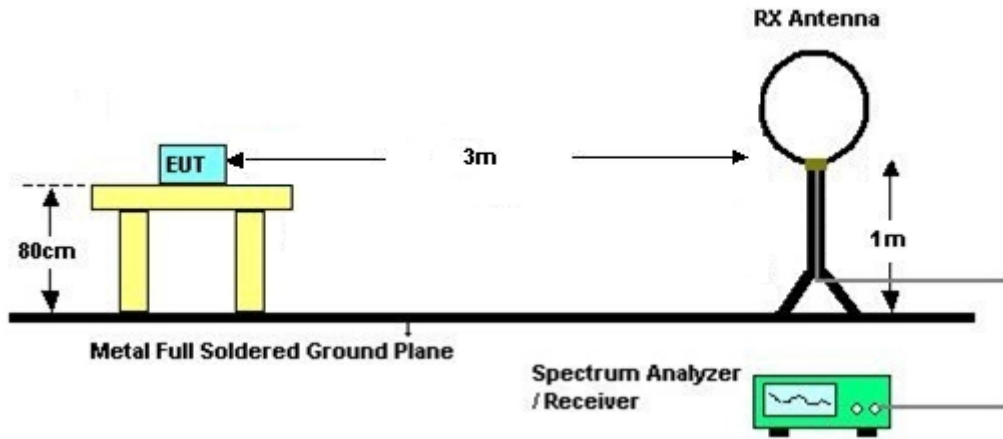


3.6.3 Test Procedures

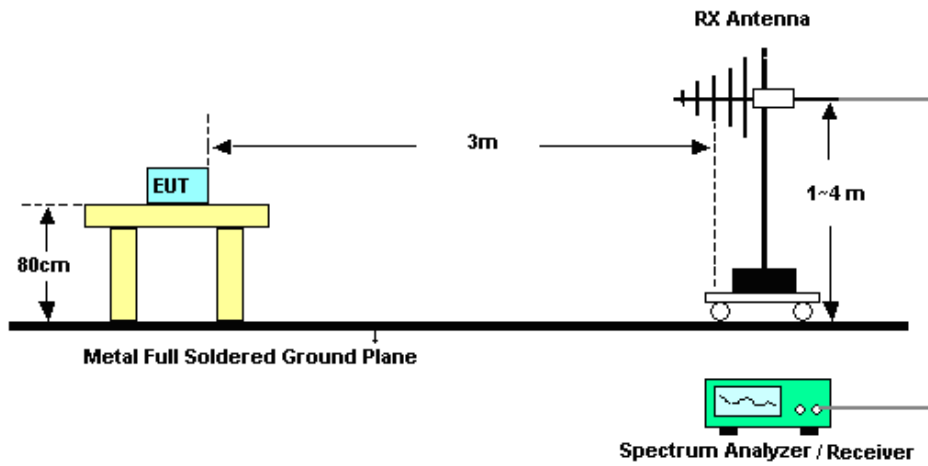
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \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 was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.6.4 Test Setup

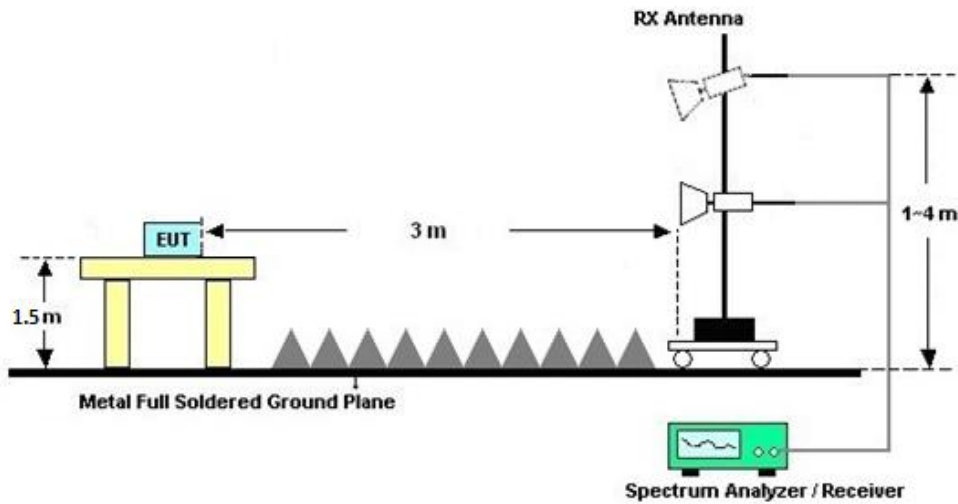
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is 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.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.6.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

The emission level above 18GHz is checked that the emission level is noise floor only, so it is not reflected in the report.



3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

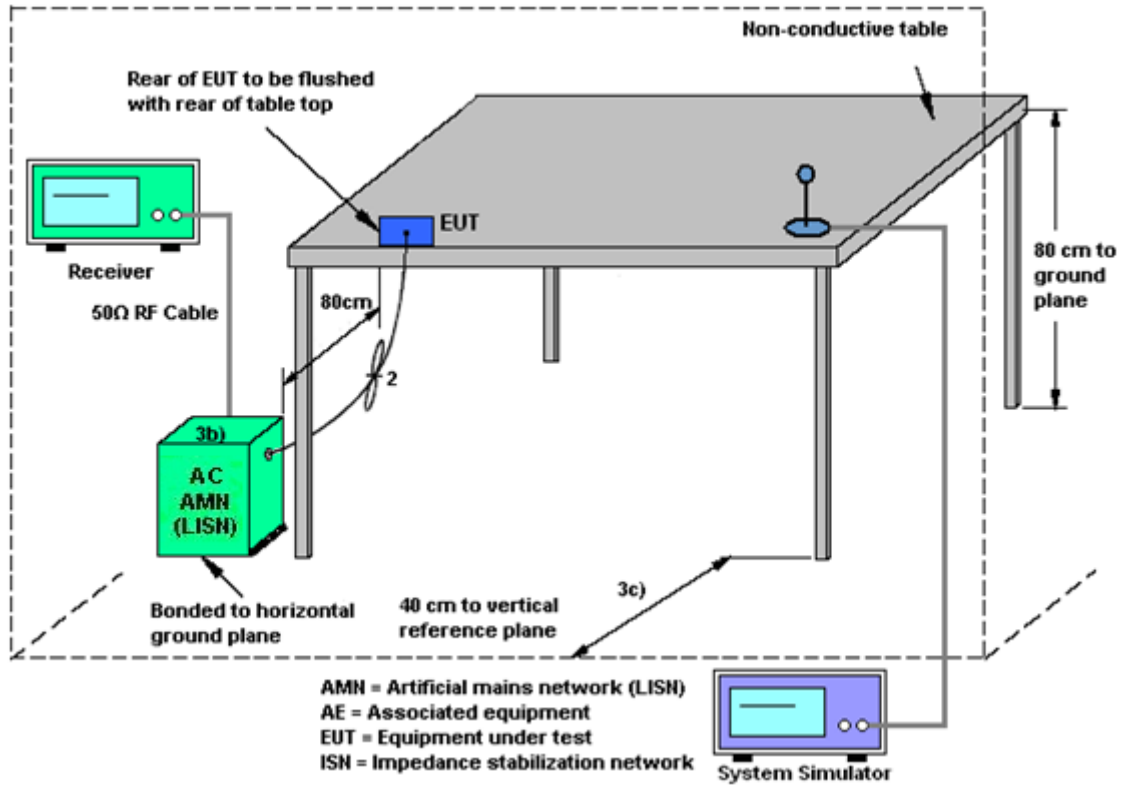
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.8 Antenna Requirements

3.8.1 Standard Applicable

§15.203: 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.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.8.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e.,

Directional gain = G_{ANT MAX}(Ant.1 Gain, Ant.2 Gain,...) + Array Gain, as following table for Power, where Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

For PSD, the directional gain calculation is following,

Directional gain = 10 log[(10^{G¹/20} + 10^{G²/20} + ... + 10^{Gⁿ/20})² / N_{ANT}] dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

N_{SS} = number of spatial streams. (The worst case directional gain will occur when NSS = 1)

<CDD Modes>				
	Ant. 8	Ant. 7	DG for Power	DG for PSD
	(dBi)	(dBi)	(dBi)	(dBi)
UNII-5	-8.50	-8.00	-8.00	-5.24
UNII-6	-8.50	-7.50	-7.50	-4.98
UNII-7	-8.00	-7.50	-7.50	-4.74
UNII-8	-8.00	-7.50	-7.50	-4.74



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	May 07, 2024~Jun. 04, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	May 07, 2024~Jun. 04, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	May 07, 2024~Jun. 04, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Apr. 21, 2024~May 12, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Apr. 21, 2024~May 12, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 21, 2024~May 12, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Apr. 21, 2024~May 12, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Apr. 21, 2024~May 12, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 09, 2024	Apr. 21, 2024~May 12, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Apr. 21, 2024~May 12, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Apr. 21, 2024~May 12, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 18, 2023	Apr. 21, 2024~May 12, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 21, 2024~May 12, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	Apr. 21, 2024~May 12, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 21, 2024~May 12, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 21, 2024~May 12, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	May 08, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	May 08, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	May 08, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	May 08, 2024	Jul. 06, 2024	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	May 13, 2024~May 15, 2024	Dec. 27, 2024	Conducted (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	May 13, 2024~May 15, 2024	Apr. 08, 2025	Conducted (DFS01-SZ)
Thermo meter	Anymetre	JR593	#8	- 10°C ~ 50°C 10%RH~99%RH	Apr. 09, 2024	May 13, 2024~May 15, 2024	Apr. 08, 2025	Conducted (DFS01-SZ)

NCR: No Calibration Required



5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz
Conducted Generated signal Levels	±0.62 dB
Conducted Time	0.38%

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
---	-------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3dB
---	-------

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



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2024/5/7~2024/6/4	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO							
Mod.	Data Rate	N _{TX}	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
				Ant 7	Ant 7		
11a	6Mbps	2	5955	16.28	19.02	320	Pass
11a	6Mbps	2	6175	16.28	19.08	320	Pass
11a	6Mbps	2	6415	16.28	19.14	320	Pass
<p>Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.</p> <p>Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.</p>							

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	5955	0.26	0.26	9.68	10.16	12.93	-8.00		4.93	24.00	Pass
11a	6Mbps	2	6175	0.26	0.26	8.26	10.25	12.38	-8.00		4.38	24.00	Pass
11a	6Mbps	2	6415	0.26	0.26	9.43	9.16	12.30	-8.00		4.30	24.00	Pass

Power Setting	
Ant 8	Ant 7
10.5	10.5
10.5	10.5
10.5	10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	5955	0.26	0.26			2.94	-5.24		-2.30	-1.00	Pass
11a	6Mbps	2	6175	0.26	0.26			2.57	-5.24		-2.67	-1.00	Pass
11a	6Mbps	2	6415	0.26	0.26			2.09	-5.24		-3.15	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-6 MIMO							
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
				Ant 7	Ant 7		
11a	6Mbps	2	6435	16.33	19.26	320	Pass
11a	6Mbps	2	6475	16.28	19.08	320	Pass
11a	6Mbps	2	6515	16.28	18.90	320	Pass
<p>Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.</p> <p>Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.</p>							

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7			
11a	6Mbps	2	6435	0.26	0.26	9.18	8.49	11.86	-7.50		4.36	24.00	Pass
11a	6Mbps	2	6475	0.26	0.26	9.55	8.49	12.06	-7.50		4.56	24.00	Pass
11a	6Mbps	2	6515	0.26	0.26	9.29	8.56	11.95	-7.50		4.45	24.00	Pass

Power Setting	
Ant 8	Ant 7
	10.5
	10.5
	10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-6 MIMO													
Mod.	Data Rate	N _{TX}	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	6435	0.26	0.26			1.57	-4.98	-3.41	-1.00	Pass	
11a	6Mbps	2	6475	0.26	0.26			1.84	-4.98	-3.14	-1.00	Pass	
11a	6Mbps	2	6515	0.26	0.26			1.83	-4.98	-3.14	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO							
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
				Ant 7	Ant 7		
11a	6Mbps	2	6535	16.28	19.20	320	Pass
11a	6Mbps	2	6695	16.28	18.96	320	Pass
11a	6Mbps	2	6855	16.28	19.02	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.

Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	6535	0.26	0.26	9.26	8.61	11.95	-7.50		4.45	24.00	Pass
11a	6Mbps	2	6695	0.26	0.26	9.11	9.16	12.14	-7.50		4.64	24.00	Pass
11a	6Mbps	2	6855	0.26	0.26	8.31	8.41	11.37	-7.50		3.87	24.00	Pass

Power Setting	
Ant 8	Ant 7
10.5	10.5
10.5	10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	6535	0.26	0.26			1.81	-4.74		-2.93	-1.00	Pass
11a	6Mbps	2	6695	0.26	0.26			1.70	-4.74		-3.04	-1.00	Pass
11a	6Mbps	2	6855	0.26	0.26			0.89	-4.74		-3.84	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

U-NII-8 MIMO							
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
				Ant 7	Ant 7		
11a	6Mbps	2	6875	16.28	18.96	320	Pass
11a	6Mbps	2	6895	16.28	18.96	320	Pass
11a	6Mbps	2	6995	16.33	19.02	320	Pass
11a	6Mbps	2	7095	16.28	19.02	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.

Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7			
11a	6Mbps	2	6875	0.26	0.26	8.20	8.86	11.55	-7.50		4.05	24.00	Pass
11a	6Mbps	2	6895	0.26	0.26	8.04	9.16	11.64	-7.50		4.14	24.00	Pass
11a	6Mbps	2	6995	0.26	0.26	7.81	7.62	10.72	-7.50		3.22	24.00	Pass
11a	6Mbps	2	7095	0.26	0.26	9.02	7.86	11.49	-7.50		3.99	24.00	Pass

Power Setting	
Ant 8	Ant 7
10.5	10.5
10.5	10.5
10.5	10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-8 MIMO													
Mod.	Data Rate	NTX	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
11a	6Mbps	2	6875	0.26	0.26			1.00	-4.74	-3.73	-1.00	Pass	
11a	6Mbps	2	6895	0.26	0.26			1.11	-4.74	-3.63	-1.00	Pass	
11a	6Mbps	2	6995	0.26	0.26			0.49	-4.74	-4.25	-1.00	Pass	
11a	6Mbps	2	7095	0.26	0.26			0.42	-4.74	-4.31	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
					Ant 7	Ant 7		
HE20	MCS0	2	5955	Full	18.83	21.06	320	Pass
HE20	MCS0	2	6175	Full	18.88	20.94	320	Pass
HE20	MCS0	2	6415	Full	18.83	21.12	320	Pass
HE40	MCS0	2	5965	Full	37.56	40.56	320	Pass
HE40	MCS0	2	6165	Full	37.56	40.32	320	Pass
HE40	MCS0	2	6405	Full	37.56	41.04	320	Pass
HE80	MCS0	2	5985	Full	76.84	82.08	320	Pass
HE80	MCS0	2	6145	Full	76.72	82.08	320	Pass
HE80	MCS0	2	6385	Full	76.72	82.32	320	Pass
HE160	MCS0	2	6025	Full	155.60	165.60	320	Pass
HE160	MCS0	2	6185	Full	155.36	164.64	320	Pass
HE160	MCS0	2	6345	Full	155.36	165.12	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.
Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7				SUM	Ant 8
HE20	MCS0	2	5955	Full	0.06	0.06	9.56	10.19	12.90	-8.00		4.90	24.00	Pass		10.5
HE20	MCS0	2	5955	26/0	0.06	0.06	0.61	1.89	4.31	-8.00		-3.69	24.00	Pass		1.5
HE20	MCS0	2	5955	52/37	0.06	0.06	4.02	4.58	7.32	-8.00		-0.68	24.00	Pass		5
HE20	MCS0	2	5955	106/53	0.06	0.06	6.86	7.26	10.08	-8.00		2.08	24.00	Pass		7.5
HE20	MCS0	2	6175	Full	0.06	0.06	8.11	10.10	12.23	-8.00		4.23	24.00	Pass		10.5
HE20	MCS0	2	6415	Full	0.06	0.06	8.70	9.01	11.87	-8.00		3.87	24.00	Pass		10.5
HE40	MCS0	2	5965	Full	0.06	0.06	9.71	10.29	13.02	-8.00		5.02	24.00	Pass		10.5
HE40	MCS0	2	6165	Full	0.06	0.06	7.76	9.77	11.89	-8.00		3.89	24.00	Pass		10.5
HE40	MCS0	2	6405	Full	0.06	0.06	8.98	9.19	12.10	-8.00		4.10	24.00	Pass		10.5
HE80	MCS0	2	5985	Full	0.03	0.05	10.73	11.33	14.05	-8.00		6.05	24.00	Pass		10.5
HE80	MCS0	2	6145	Full	0.03	0.05	9.25	10.67	13.02	-8.00		5.02	24.00	Pass		10.5
HE80	MCS0	2	6385	Full	0.03	0.05	9.83	9.71	12.78	-8.00		4.78	24.00	Pass		10.5
HE160	MCS0	2	6025	Full	0.05	0.05	10.76	11.77	14.31	-8.00		6.31	24.00	Pass		10.5
HE160	MCS0	2	6185	Full	0.05	0.05	9.23	10.55	12.95	-8.00		4.95	24.00	Pass		10.5
HE160	MCS0	2	6345	Full	0.05	0.05	8.95	8.93	11.95	-8.00		3.95	24.00	Pass		10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO														
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7			
HE20	MCS0	2	5955	Full	0.06	0.06			2.20	-5.24	-3.04	-1.00	Pass	
HE20	MCS0	2	5955	26/0	0.06	0.06			1.71	-5.24	-3.53	-1.00	Pass	
HE20	MCS0	2	5955	52/37	0.06	0.06			1.88	-5.24	-3.36	-1.00	Pass	
HE20	MCS0	2	5955	106/53	0.06	0.06			1.70	-5.24	-3.54	-1.00	Pass	
HE20	MCS0	2	6175	Full	0.06	0.06			1.71	-5.24	-3.52	-1.00	Pass	
HE20	MCS0	2	6415	Full	0.06	0.06			1.19	-5.24	-4.05	-1.00	Pass	
HE40	MCS0	2	5965	Full	0.06	0.06			-0.29	-5.24	-5.52	-1.00	Pass	
HE40	MCS0	2	6165	Full	0.06	0.06			-1.11	-5.24	-6.35	-1.00	Pass	
HE40	MCS0	2	6405	Full	0.06	0.06			-1.19	-5.24	-6.43	-1.00	Pass	
HE80	MCS0	2	5985	Full	0.03	0.05			-1.48	-5.24	-6.71	-1.00	Pass	
HE80	MCS0	2	6145	Full	0.03	0.05			-2.51	-5.24	-7.74	-1.00	Pass	
HE80	MCS0	2	6385	Full	0.03	0.05			-2.72	-5.24	-7.95	-1.00	Pass	
HE160	MCS0	2	6025	Full	0.05	0.05			-4.93	-5.24	-10.17	-1.00	Pass	
HE160	MCS0	2	6185	Full	0.05	0.05			-5.66	-5.24	-10.89	-1.00	Pass	
HE160	MCS0	2	6345	Full	0.05	0.05			-6.64	-5.24	-11.87	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-6 MIMO								
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
					Ant 7	Ant 7		
HE20	MCS0	2	6435	Full	18.83	20.94	320	Pass
HE20	MCS0	2	6475	Full	18.83	21.00	320	Pass
HE20	MCS0	2	6515	Full	18.83	21.06	320	Pass
HE40	MCS0	2	6445	Full	37.56	40.56	320	Pass
HE40	MCS0	2	6485	Full	37.56	40.44	320	Pass
HE40	MCS0	2	6525	Full	37.56	40.44	320	Pass
HE80	MCS0	2	6465	Full	76.84	82.32	320	Pass
HE80	MCS0	2	6545	Full	76.84	81.84	320	Pass
HE160	MCS0	2	6505	Full	155.60	164.64	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.
Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-6 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
HE20	MCS0	2	6435	Full	0.06	0.06			0.70	-4.98	-4.27	-1.00	Pass	
HE20	MCS0	2	6435	26/0	0.06	0.06			0.05	-4.98	-4.92	-1.00	Pass	
HE20	MCS0	2	6435	52/37	0.06	0.06			0.07	-4.98	-4.91	-1.00	Pass	
HE20	MCS0	2	6435	106/53	0.06	0.06			-0.02	-4.98	-4.99	-1.00	Pass	
HE20	MCS0	2	6475	Full	0.06	0.06			1.01	-4.98	-3.96	-1.00	Pass	
HE20	MCS0	2	6515	Full	0.06	0.06			0.96	-4.98	-4.02	-1.00	Pass	
HE40	MCS0	2	6445	Full	0.06	0.06			-1.58	-4.98	-6.56	-1.00	Pass	
HE40	MCS0	2	6485	Full	0.06	0.06			-1.63	-4.98	-6.61	-1.00	Pass	
HE40	MCS0	2	6525	Full	0.06	0.06			-1.53	-4.98	-6.50	-1.00	Pass	
HE80	MCS0	2	6465	Full	0.03	0.05			-2.76	-4.98	-7.74	-1.00	Pass	
HE80	MCS0	2	6545	Full	0.03	0.05			-2.90	-4.98	-7.87	-1.00	Pass	
HE160	MCS0	2	6505	Full	0.05	0.05			-6.40	-4.98	-11.38	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
					Ant 7	Ant 7		
HE20	MCS0	2	6535	Full	18.83	20.88	320	Pass
HE20	MCS0	2	6695	Full	18.83	21.00	320	Pass
HE20	MCS0	2	6855	Full	18.83	20.88	320	Pass
HE40	MCS0	2	6565	Full	37.56	40.44	320	Pass
HE40	MCS0	2	6685	Full	37.56	40.20	320	Pass
HE40	MCS0	2	6845	Full	37.56	40.44	320	Pass
HE80	MCS0	2	6625	Full	76.72	81.84	320	Pass
HE80	MCS0	2	6705	Full	76.84	81.84	320	Pass
HE80	MCS0	2	6785	Full	76.84	81.84	320	Pass
HE80	MCS0	2	6865	Full	76.60	81.84	320	Pass
HE160	MCS0	2	6665	Full	155.84	164.64	320	Pass
HE160	MCS0	2	6825	Full	155.84	163.68	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.
Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7				SUM	Ant 8
HE20	MCS0	2	6535	Full	0.06	0.06	8.60	8.46	11.54	-7.50		4.04	24.00	Pass		10.5
HE20	MCS0	2	6695	Full	0.06	0.06	8.49	9.14	11.84	-7.50		4.34	24.00	Pass		10.5
HE20	MCS0	2	6855	Full	0.06	0.06	7.68	8.26	10.99	-7.50		3.49	24.00	Pass		10.5
BE20	MCS0	2	6855	26/8	0.06	0.06	-1.20	-1.34	1.74	-7.50		-5.76	24.00	Pass		1.5
BE20	MCS0	2	6855	52/40	0.06	0.06	1.89	1.36	4.65	-7.50		-2.85	24.00	Pass		4.5
BE20	MCS0	2	6855	106/54	0.06	0.06	4.94	4.21	7.60	-7.50		0.10	24.00	Pass		7.5
HE40	MCS0	2	6565	Full	0.06	0.06	9.00	9.08	12.05	-7.50		4.55	24.00	Pass		10.5
HE40	MCS0	2	6685	Full	0.06	0.06	8.78	9.21	12.01	-7.50		4.51	24.00	Pass		10.5
HE40	MCS0	2	6845	Full	0.06	0.06	7.94	8.48	11.23	-7.50		3.73	24.00	Pass		10.5
HE80	MCS0	2	6625	Full	0.03	0.05	10.13	9.91	13.03	-7.50		5.53	24.00	Pass		10.5
HE80	MCS0	2	6705	Full	0.03	0.05	9.63	10.00	12.83	-7.50		5.33	24.00	Pass		10.5
HE80	MCS0	2	6785	Full	0.03	0.05	8.83	9.16	12.01	-7.50		4.51	24.00	Pass		10.5
HE80	MCS0	2	6865	Full	0.03	0.05	8.83	9.45	12.16	-7.50		4.66	24.00	Pass		10.5
HE160	MCS0	2	6665	Full	0.05	0.05	10.14	9.97	13.07	-7.50		5.57	24.00	Pass		10.5
HE160	MCS0	2	6825	Full	0.05	0.05	8.38	8.57	11.49	-7.50		3.99	24.00	Pass		10.5

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO														
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7	SUM		
HE20	MCS0	2	6535	Full	0.06	0.06			0.91		-4.74	-3.82	-1.00	Pass
HE20	MCS0	2	6695	Full	0.06	0.06			1.03		-4.74	-3.71	-1.00	Pass
HE20	MCS0	2	6855	Full	0.06	0.06			0.21		-4.74	-4.52	-1.00	Pass
BE20	MCS0	2	6855	26/8	0.06	0.06			-0.63		-4.74	-5.37	-1.00	Pass
BE20	MCS0	2	6855	52/40	0.06	0.06			-0.64		-4.74	-5.38	-1.00	Pass
BE20	MCS0	2	6855	106/54	0.06	0.06			-0.74		-4.74	-5.48	-1.00	Pass
HE40	MCS0	2	6565	Full	0.06	0.06			-1.37		-4.74	-6.10	-1.00	Pass
HE40	MCS0	2	6685	Full	0.06	0.06			-1.34		-4.74	-6.07	-1.00	Pass
HE40	MCS0	2	6845	Full	0.06	0.06			-2.03		-4.74	-6.76	-1.00	Pass
HE80	MCS0	2	6625	Full	0.03	0.05			-2.54		-4.74	-7.27	-1.00	Pass
HE80	MCS0	2	6705	Full	0.03	0.05			-2.99		-4.74	-7.72	-1.00	Pass
HE80	MCS0	2	6785	Full	0.03	0.05			-3.64		-4.74	-8.37	-1.00	Pass
HE80	MCS0	2	6865	Full	0.03	0.05			-3.51		-4.74	-8.25	-1.00	Pass
HE160	MCS0	2	6665	Full	0.05	0.05			-5.95		-4.74	-10.68	-1.00	Pass
HE160	MCS0	2	6825	Full	0.05	0.05			-7.21		-4.74	-11.94	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

U-NII-8 MIMO								
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	Limit (MHz)	Pass /Fail
					Ant 7	Ant 7		
HE20	MCS0	2	6875	Full	18.83	20.94	320	Pass
HE20	MCS0	2	6895	Full	18.88	21.18	320	Pass
HE20	MCS0	2	6995	Full	18.93	20.70	320	Pass
HE20	MCS0	2	7095	Full	18.88	20.82	320	Pass
HE40	MCS0	2	6885	Full	37.56	40.44	320	Pass
HE40	MCS0	2	6925	Full	37.56	40.68	320	Pass
HE40	MCS0	2	6965	Full	37.66	40.08	320	Pass
HE40	MCS0	2	7085	Full	37.56	40.56	320	Pass
HE80	MCS0	2	6945	Full	76.72	81.84	320	Pass
HE80	MCS0	2	7025	Full	76.48	82.08	320	Pass
HE160	MCS0	2	6985	Full	155.84	165.60	320	Pass

Note1:For channels with a nominal bandwidth of 320MHz,compliance is demonstrated by way of the 99%BW.
Note2:For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz),compliance is demonstrated by way of the 26dB EBW.

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO																
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7				SUM	Ant 8
HE20	MCS0	2	6875	Full	0.06	0.06	7.45	8.72	11.14	-7.50		3.64	24.00	Pass		10.5
HE20	MCS0	2	6895	Full	0.06	0.06	7.36	9.02	11.28	-7.50		3.78	24.00	Pass		10.5
HE20	MCS0	2	6995	Full	0.06	0.06	7.16	7.46	10.33	-7.50		2.83	24.00	Pass		10.5
HE20	MCS0	2	7095	Full	0.06	0.06	8.28	7.78	11.05	-7.50		3.55	24.00	Pass		10.5
HE20	MCS0	2	7095	26/8	0.06	0.06	-0.54	-0.17	2.66	-7.50		-4.84	24.00	Pass		2
HE20	MCS0	2	7095	52/40	0.06	0.06	2.86	2.06	5.49	-7.50		-2.01	24.00	Pass		5
HE20	MCS0	2	7095	106/54	0.06	0.06	5.40	4.66	8.06	-7.50		0.56	24.00	Pass		7.5
HE40	MCS0	2	6885	Full	0.06	0.06	7.36	9.06	11.31	-7.50		3.81	24.00	Pass		10.5
HE40	MCS0	2	6925	Full	0.06	0.06	6.62	9.06	11.02	-7.50		3.52	24.00	Pass		10.5
HE40	MCS0	2	6965	Full	0.06	0.06	7.03	8.26	10.70	-7.50		3.20	24.00	Pass		10.5
HE40	MCS0	2	7085	Full	0.06	0.06	8.16	7.86	11.03	-7.50		3.53	24.00	Pass		10.5
HE80	MCS0	2	6945	Full	0.03	0.05	8.18	9.30	11.78	-7.50		4.28	24.00	Pass		10.5
HE80	MCS0	2	7025	Full	0.03	0.05	9.09	8.36	11.75	-7.50		4.25	24.00	Pass		10.5
HE160	MCS0	2	6985	Full	0.05	0.05	7.90	8.05	10.99	-7.50		3.49	24.00	Pass		10.5

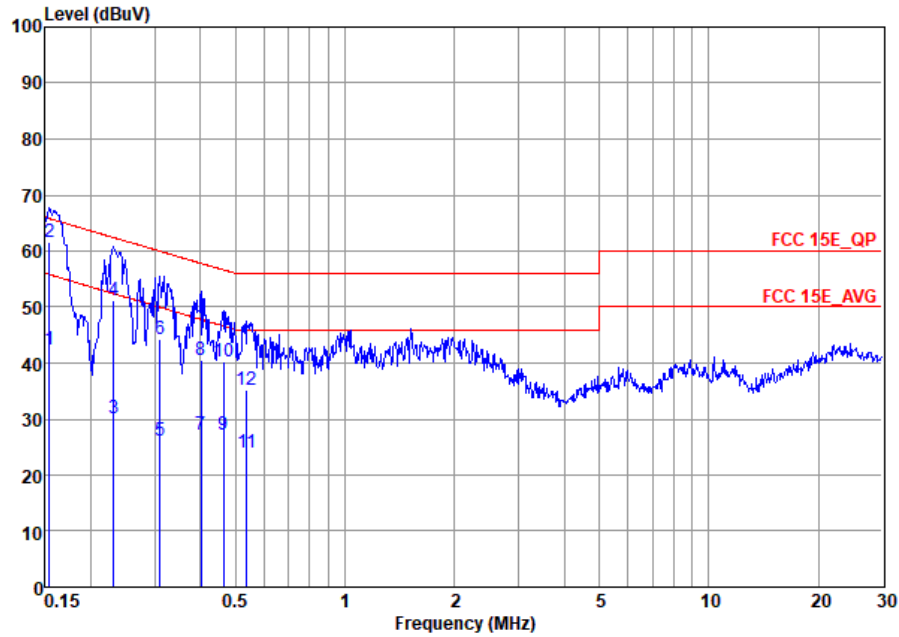
TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-8 MIMO														
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 8	Ant 7	Ant 8	Ant 7	SUM	Ant 8	Ant 7			
HE20	MCS0	2	6875	Full	0.06	0.06			0.29	-4.74	-4.45	-1.00	Pass	
HE20	MCS0	2	6895	Full	0.06	0.06			0.39	-4.74	-4.34	-1.00	Pass	
HE20	MCS0	2	6995	Full	0.06	0.06			-0.35	-4.74	-5.08	-1.00	Pass	
HE20	MCS0	2	7095	Full	0.06	0.06			0.15	-4.74	-4.59	-1.00	Pass	
HE20	MCS0	2	7095	26/8	0.06	0.06			-0.06	-4.74	-4.80	-1.00	Pass	
HE20	MCS0	2	7095	52/40	0.06	0.06			-0.09	-4.74	-4.83	-1.00	Pass	
HE20	MCS0	2	7095	106/54	0.06	0.06			-0.53	-4.74	-5.26	-1.00	Pass	
HE40	MCS0	2	6885	Full	0.06	0.06			-2.09	-4.74	-6.83	-1.00	Pass	
HE40	MCS0	2	6925	Full	0.06	0.06			-2.31	-4.74	-7.05	-1.00	Pass	
HE40	MCS0	2	6965	Full	0.06	0.06			-2.70	-4.74	-7.43	-1.00	Pass	
HE40	MCS0	2	7085	Full	0.06	0.06			-2.36	-4.74	-7.10	-1.00	Pass	
HE80	MCS0	2	6945	Full	0.03	0.05			-3.90	-4.74	-8.64	-1.00	Pass	
HE80	MCS0	2	7025	Full	0.03	0.05			-3.42	-4.74	-8.16	-1.00	Pass	
HE160	MCS0	2	6985	Full	0.05	0.05			-8.16	-4.74	-12.90	-1.00	Pass	



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Yuki Tang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

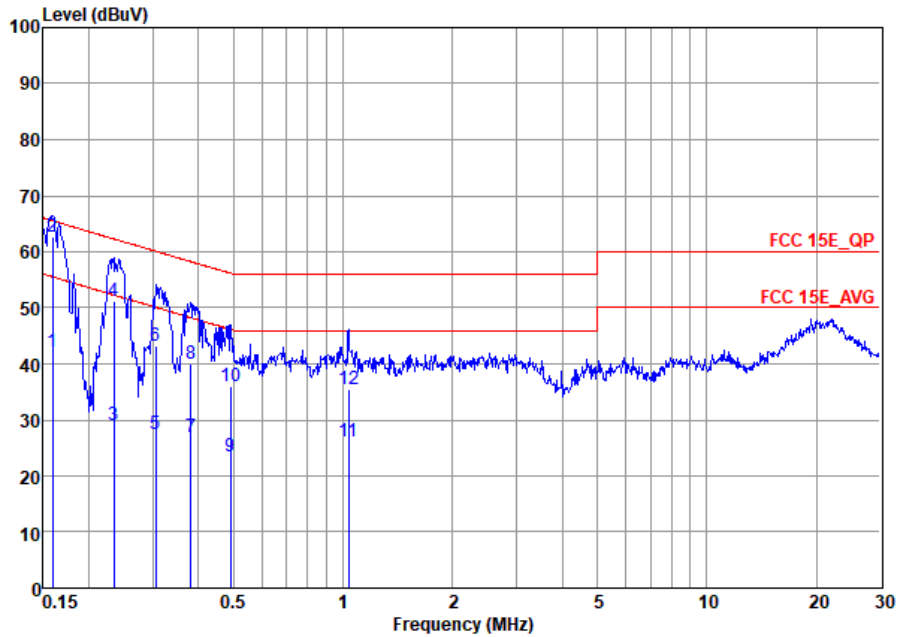


Site : CO01-SZ
 Condition: FCC 15E_QP AC LISN 100063_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	42.49	-13.29	55.78	22.00	10.36	10.13	Average
2 *	0.15	61.69	-4.09	65.78	41.20	10.36	10.13	QP
3	0.23	30.00	-22.39	52.39	9.60	10.25	10.15	Average
4	0.23	51.20	-11.19	62.39	30.80	10.25	10.15	QP
5	0.31	26.03	-23.94	49.97	5.80	10.08	10.15	Average
6	0.31	44.33	-15.64	59.97	24.10	10.08	10.15	QP
7	0.40	27.30	-20.51	47.81	6.69	10.45	10.16	Average
8	0.40	40.60	-17.21	57.81	19.99	10.45	10.16	QP
9	0.46	27.28	-19.35	46.63	6.80	10.32	10.16	Average
10	0.46	40.28	-16.35	56.63	19.80	10.32	10.16	QP
11	0.54	23.98	-22.02	46.00	3.60	10.22	10.16	Average
12	0.54	35.08	-20.92	56.00	14.70	10.22	10.16	QP



Test Engineer :	Yuki Tang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15E_QP AC LISN 100063_N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	42.04	-13.48	55.52	21.60	10.30	10.14	Average
2 *	0.16	62.74	-2.78	65.52	42.30	10.30	10.14	QP
3	0.23	29.04	-23.26	52.30	8.71	10.18	10.15	Average
4	0.23	51.14	-11.16	62.30	30.81	10.18	10.15	QP
5	0.31	27.42	-22.68	50.10	6.81	10.46	10.15	Average
6	0.31	43.22	-16.88	60.10	22.61	10.46	10.15	QP
7	0.38	26.92	-21.33	48.25	6.69	10.07	10.16	Average
8	0.38	40.12	-18.13	58.25	19.89	10.07	10.16	QP
9	0.49	23.47	-22.67	46.14	3.20	10.11	10.16	Average
10	0.49	36.07	-20.07	56.14	15.80	10.11	10.16	QP
11	1.04	26.18	-19.82	46.00	5.80	10.22	10.16	Average
12	1.04	35.48	-20.52	56.00	15.10	10.22	10.16	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	HuaCong Liang	Relative Humidity :	50%
		Temperature :	20-22°C

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-5	5.925-6.425	8+7	802.11a	1	5955	6Mbps	-	-
Mode 2	U-NII-5	5.925-6.425	8+7	802.11a	45	6175	6Mbps	-	-
Mode 3	U-NII-5	5.925-6.425	8+7	802.11a	93	6415	6Mbps	-	-
Mode 4	U-NII-5	5.925-6.425	8+7	802.11a	97	6435	6Mbps	-	-
Mode 5	U-NII-6	6.425-6.525	8+7	802.11a	105	6475	6Mbps	-	-
Mode 6	U-NII-6	6.425-6.525	8+7	802.11a	113	6515	6Mbps	-	-
Mode 7	U-NII-7	6.525-6.875	8+7	802.11a	117	6535	6Mbps	-	-
Mode 8	U-NII-7	6.525-6.875	8+7	802.11a	149	6695	6Mbps	-	-
Mode 9	U-NII-7	6.525-6.875	8+7	802.11a	181	6855	6Mbps	-	-
Mode 10	U-NII-8	6.875-7.125	8+7	802.11a	189	6895	6Mbps	-	-
Mode 11	U-NII-8	6.875-7.125	8+7	802.11a	209	6995	6Mbps	-	-
Mode 12	U-NII-8	6.875-7.125	8+7	802.11a	229	7095	6Mbps	-	-
Mode 13	U-NII-5	5.925-6.425	8+7	802.11ax HE20	1	5955	MCS0	Full RU	-
Mode 14	U-NII-5	5.925-6.425	8+7	802.11ax HE20	45	6175	MCS0	Full RU	-
Mode 15	U-NII-5	5.925-6.425	8+7	802.11ax HE20	93	6415	MCS0	Full RU	-
Mode 16	U-NII-5	5.925-6.425	8+7	802.11ax HE20	97	6435	MCS0	Full RU	-
Mode 17	U-NII-6	6.425-6.525	8+7	802.11ax HE20	105	6475	MCS0	Full RU	-
Mode 18	U-NII-6	6.425-6.525	8+7	802.11ax HE20	113	6515	MCS0	Full RU	-
Mode 19	U-NII-7	6.525-6.875	8+7	802.11ax HE20	117	6535	MCS0	Full RU	-
Mode 20	U-NII-7	6.525-6.875	8+7	802.11ax HE20	149	6695	MCS0	Full RU	-
Mode 21	U-NII-7	6.525-6.875	8+7	802.11ax HE20	181	6855	MCS0	Full RU	-
Mode 22	U-NII-8	6.875-7.125	8+7	802.11ax HE20	189	6895	MCS0	Full RU	-
Mode 23	U-NII-8	6.875-7.125	8+7	802.11ax HE20	209	6995	MCS0	Full RU	-
Mode 24	U-NII-8	6.875-7.125	8+7	802.11ax HE20	229	7095	MCS0	Full RU	-
Mode 25	U-NII-5	5.925-6.425	8+7	802.11ax HE40	3	5965	MCS0	Full RU	-
Mode 26	U-NII-5	5.925-6.425	8+7	802.11ax HE40	43	6165	MCS0	Full RU	-
Mode 27	U-NII-5	5.925-6.425	8+7	802.11ax HE40	91	6405	MCS0	Full RU	-
Mode 28	U-NII-6	6.425-6.525	8+7	802.11ax HE40	99	6445	MCS0	Full RU	-
Mode 29	U-NII-6	6.425-6.525	8+7	802.11ax HE40	107	6485	MCS0	Full RU	-
Mode 30	U-NII-7	6.525-6.875	8+7	802.11ax HE40	123	6565	MCS0	Full RU	-
Mode 31	U-NII-7	6.525-6.875	8+7	802.11ax HE40	147	6685	MCS0	Full RU	-
Mode 32	U-NII-7	6.525-6.875	8+7	802.11ax HE40	179	6845	MCS0	Full RU	-
Mode 33	U-NII-8	6.875-7.125	8+7	802.11ax HE40	195	6925	MCS0	Full RU	-
Mode 34	U-NII-8	6.875-7.125	8+7	802.11ax HE40	203	6965	MCS0	Full RU	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 35	U-NII-8	6.875-7.125	8+7	802.11ax HE40	227	7085	MCS0	Full RU	-
Mode 36	U-NII-5	5.925-6.425	8+7	802.11ax HE80	7	5985	MCS0	Full RU	-
Mode 37	U-NII-5	5.925-6.425	8+7	802.11ax HE80	39	6145	MCS0	Full RU	-
Mode 38	U-NII-5	5.925-6.425	8+7	802.11ax HE80	87	6385	MCS0	Full RU	-
Mode 39	U-NII-6	6.425-6.525	8+7	802.11ax HE80	103	6465	MCS0	Full RU	-
Mode 40	U-NII-7	6.525-6.875	8+7	802.11ax HE80	135	6625	MCS0	Full RU	-
Mode 41	U-NII-7	6.525-6.875	8+7	802.11ax HE80	151	6705	MCS0	Full RU	-
Mode 42	U-NII-7	6.525-6.875	8+7	802.11ax HE80	167	6785	MCS0	Full RU	-
Mode 43	U-NII-8	6.875-7.125	8+7	802.11ax HE80	199	6945	MCS0	Full RU	-
Mode 44	U-NII-8	6.875-7.125	8+7	802.11ax HE80	215	7025	MCS0	Full RU	-
Mode 45	U-NII-5	5.925-6.425	8+7	802.11ax HE160	15	6025	MCS0	Full RU	-
Mode 46	U-NII-5	5.925-6.425	8+7	802.11ax HE160	47	6185	MCS0	Full RU	-
Mode 47	U-NII-5	5.925-6.425	8+7	802.11ax HE160	79	6345	MCS0	Full RU	-
Mode 48	U-NII-7	6.525-6.875	8+7	802.11ax HE160	143	6665	MCS0	Full RU	-
Mode 49	U-NII-8	6.875-7.125	8+7	802.11ax HE160	207	6985	MCS0	Full RU	-
Mode 50	U-NII-7-8	6525-7125	8+7	802.11ax HE20	185	6525	MCS0	Full RU	-
Mode 51	U-NII-7-8	6525-7125	8+7	802.11ax HE40	187	6885	MCS0	Full RU	-
Mode 52	U-NII-7-8	6525-7125	8+7	802.11ax HE80	183	6865	MCS0	Full RU	-
Mode 53	U-NII-7-8	6525-7125	8+7	802.11ax HE160	175	6825	MCS0	Full RU	-
Mode 54	U-NII-6-7	6425-6875	8+7	802.11ax HE40	115	6525	MCS0	Full RU	-
Mode 55	U-NII-6-7	6425-6875	8+7	802.11ax HE80	119	6545	MCS0	Full RU	-
Mode 56	U-NII-6-7	6425-6875	8+7	802.11ax HE160	111	6505	MCS0	Full RU	-
Mode 57	U-NII-5	5.925-6.425	8+7	802.11ax HE20	1	5955	MCS0	Partial RU 52/37	-
Mode 58	U-NII-8	6.875-7.125	8+7	802.11ax HE20	229	7095	MCS0	Partial RU 26/8	-
Mode 59	U-NII-7-8	6525-7125	8+7	802.11a	185	6525	MCS0	Full RU	-
Mode 60	U-NII-8	6.875-7.125	8+7	802.11ax HE40	227	7085	-	-	LF
Mode 61	Co-location	6G WIFI	8+7	802.11ax HE40	227	7085	MCS0	Full RU	-
		WWAN	0	B13(10M)	-	-	-	-	-
Mode 62	Co-location	BLE	8	Bluetooth-LE	39	2480	2Mbps	-	-
		6G WIFI	8+7	802.11ax HE40	227	7085	MCS0	-	-
		WWAN	0	B13(10M)	-	-	-	-	-
Mode 63	U-NII-8	6.875-7.125	8+7	802.11ax HE40	227	7085	MCS0	Full RU	Sample 2



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	1	-	-	-	-	-	-	-	Band Edge
1	802.11a	1	11910.00	48.62	74.00	-25.38	V	Peak	Pass	Harmonic
2	802.11a	45	-	-	-	-	-	-	-	Band Edge
2	802.11a	45	12350.00	47.99	74.00	-26.01	V	Peak	Pass	Harmonic
3	802.11a	93	-	-	-	-	-	-	-	Band Edge
3	802.11a	93	12830.00	48.46	88.20	-39.74	H	Peak	Pass	Harmonic
4	802.11a	97	-	-	-	-	-	-	-	Band Edge
4	802.11a	97	12870.00	47.53	88.20	-40.67	H	Peak	Pass	Harmonic
5	802.11a	105	-	-	-	-	-	-	-	Band Edge
5	802.11a	105	12950.00	47.78	88.20	-40.42	H	Peak	Pass	Harmonic
6	802.11a	113	-	-	-	-	-	-	-	Band Edge
6	802.11a	113	13030.00	47.59	88.20	-40.61	V	Peak	Pass	Harmonic
7	802.11a	117	-	-	-	-	-	-	-	Band Edge
7	802.11a	117	13070.00	47.63	88.20	-40.57	V	Peak	Pass	Harmonic
8	802.11a	149	-	-	-	-	-	-	-	Band Edge
8	802.11a	149	13390.00	48.36	74.00	-25.64	V	Peak	Pass	Harmonic
9	802.11a	181	-	-	-	-	-	-	-	Band Edge
9	802.11a	181	13710.00	48.50	88.20	-39.70	H	Peak	Pass	Harmonic
10	802.11a	189	-	-	-	-	-	-	-	Band Edge
10	802.11a	189	13790.00	49.83	88.20	-38.37	H	Peak	Pass	Harmonic
11	802.11a	209	-	-	-	-	-	-	-	Band Edge
11	802.11a	209	13990.00	49.97	88.20	-38.23	V	Peak	Pass	Harmonic
12	802.11a	229	-	-	-	-	-	-	-	Band Edge
12	802.11a	229	14190.00	49.94	88.20	-38.26	H	Peak	Pass	Harmonic
13	802.11ax HE20	1	5924.82	59.58	68.20	-8.62	H	AVERAGE	Pass	Band Edge
13	802.11ax HE20	1	17865.00	50.37	74.00	-23.63	V	Peak	Pass	Harmonic
14	802.11ax HE20	45	-	-	-	-	-	-	-	Band Edge
14	802.11ax HE20	45	12350.00	48.69	74.00	-25.31	V	Peak	Pass	Harmonic
15	802.11ax HE20	93	-	-	-	-	-	-	-	Band Edge
15	802.11ax HE20	93	12830.00	49.25	88.20	-38.95	V	Peak	Pass	Harmonic
16	802.11ax HE20	97	-	-	-	-	-	-	-	Band Edge
16	802.11ax HE20	97	12690	49.16	74	-24.84	V	Peak	Pass	Harmonic
17	802.11ax HE20	105	-	-	-	-	-	-	-	Band Edge
17	802.11ax HE20	105	12950.00	49.53	88.20	-38.67	V	Peak	Pass	Harmonic
18	802.11ax HE20	113	-	-	-	-	-	-	-	Band Edge
18	802.11ax HE20	113	13030.00	49.25	88.20	-38.95	V	Peak	Pass	Harmonic
19	802.11ax HE20	117	-	-	-	-	-	-	-	Band Edge
19	802.11ax HE20	117	13070.00	48.09	88.20	-40.11	V	Peak	Pass	Harmonic
20	802.11ax HE20	149	-	-	-	-	-	-	-	Band Edge
20	802.11ax HE20	149	13390.00	49.01	74.00	-24.99	V	Peak	Pass	Harmonic
21	802.11ax HE20	181	-	-	-	-	-	-	-	Band Edge
21	802.11ax HE20	181	13710.00	50.55	88.20	-37.65	V	Peak	Pass	Harmonic
22	802.11ax HE20	189	-	-	-	-	-	-	-	Band Edge
22	802.11ax HE20	189	13790.00	49.55	88.20	-38.65	V	Peak	Pass	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
23	802.11ax HE20	209	-	-	-	-	-	-	-	Band Edge
23	802.11ax HE20	209	13990.00	50.47	88.20	-37.73	H	Peak	Pass	Harmonic
24	802.11ax HE20	229	7125.28	61.10	68.20	-7.10	V	AVERAGE	Pass	Band Edge
24	802.11ax HE20	229	14190.00	49.07	88.20	-39.13	V	Peak	Pass	Harmonic
25	802.11ax HE40	3	5925.00	58.44	68.20	-9.76	H	AVERAGE	Pass	Band Edge
25	802.11ax HE40	3	17895.00	50.41	74.00	-23.59	H	Peak	Pass	Harmonic
26	802.11ax HE40	43	-	-	-	-	-	-	-	Band Edge
26	802.11ax HE40	43	12330.00	48.52	74.00	-25.48	V	Peak	Pass	Harmonic
27	802.11ax HE40	91	-	-	-	-	-	-	-	Band Edge
27	802.11ax HE40	91	12810.00	49.69	88.20	-38.51	H	Peak	Pass	Harmonic
28	802.11ax HE40	99	-	-	-	-	-	-	-	Band Edge
28	802.11ax HE40	99	12890.00	49.68	88.20	-38.52	H	Peak	Pass	Harmonic
29	802.11ax HE40	107	-	-	-	-	-	-	-	Band Edge
29	802.11ax HE40	107	12970.00	48.80	88.20	-39.40	H	Peak	Pass	Harmonic
30	802.11ax HE40	123	-	-	-	-	-	-	-	Band Edge
30	802.11ax HE40	123	13130.00	48.27	88.20	-39.93	V	Peak	Pass	Harmonic
31	802.11ax HE40	147	-	-	-	-	-	-	-	Band Edge
31	802.11ax HE40	147	13370.00	48.58	74.00	-25.42	V	Peak	Pass	Harmonic
32	802.11ax HE40	179	-	-	-	-	-	-	-	Band Edge
32	802.11ax HE40	179	13690.00	49.87	88.20	-38.33	H	Peak	Pass	Harmonic
33	802.11ax HE40	195	-	-	-	-	-	-	-	Band Edge
33	802.11ax HE40	195	13850.00	50.19	88.20	-38.01	V	Peak	Pass	Harmonic
34	802.11ax HE40	203	-	-	-	-	-	-	-	Band Edge
34	802.11ax HE40	203	13930.00	49.81	88.20	-38.39	H	Peak	Pass	Harmonic
35	802.11ax HE40	227	7251.11	48.91	54.00	-5.09	H	AVERAGE	Pass	Band Edge
35	802.11ax HE40	227	14170.00	50.60	88.20	-37.60	H	Peak	Pass	Harmonic
36	802.11ax HE80	7	5923.24	61.23	68.20	-6.97	H	AVERAGE	Pass	Band Edge
36	802.11ax HE80	7	17955.00	50.85	74.00	-23.15	H	Peak	Pass	Harmonic
37	802.11ax HE80	39	-	-	-	-	-	-	-	Band Edge
37	802.11ax HE80	39	12290.00	48.81	74.00	-25.19	H	Peak	Pass	Harmonic
38	802.11ax HE80	87	-	-	-	-	-	-	-	Band Edge
38	802.11ax HE80	87	12770.00	49.12	88.20	-39.08	H	Peak	Pass	Harmonic
39	802.11ax HE80	103	-	-	-	-	-	-	-	Band Edge
39	802.11ax HE80	103	12930.00	49.51	88.20	-38.69	H	Peak	Pass	Harmonic
40	802.11ax HE80	135	-	-	-	-	-	-	-	Band Edge
40	802.11ax HE80	135	13250.00	49.50	74.00	-24.50	H	Peak	Pass	Harmonic
41	802.11ax HE80	151	-	-	-	-	-	-	-	Band Edge
41	802.11ax HE80	151	13410.00	49.46	88.20	-38.74	V	Peak	Pass	Harmonic
42	802.11ax HE80	167	-	-	-	-	-	-	-	Band Edge
42	802.11ax HE80	167	13570.00	50.41	88.20	-37.79	V	Peak	Pass	Harmonic
43	802.11ax HE80	199	-	-	-	-	-	-	-	Band Edge
43	802.11ax HE80	199	13890.00	49.50	88.20	-38.70	H	Peak	Pass	Harmonic
44	802.11ax HE80	215	7255.10	46.03	54.00	-7.97	H	AVERAGE	Pass	Band Edge
44	802.11ax HE80	215	14052	48.35	88.2	-39.85	H	AVERAGE	Pass	Harmonic
45	802.11ax HE160	15	5917.96	58.91	68.20	-9.29	H	AVERAGE	Pass	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
45	802.11ax HE160	15	12048	47.78	74	-26.22	H	Peak	Pass	Harmonic
46	802.11ax HE160	47	-	-	-	-	-	-	-	Band Edge
46	802.11ax HE160	47	12372	49.27	74	-24.73	H	Peak	Pass	Harmonic
47	802.11ax HE160	79	-	-	-	-	-	-	-	Band Edge
47	802.11ax HE160	79	12690.00	48.62	74.00	-25.38	H	Peak	Pass	Harmonic
48	802.11ax HE160	143	-	-	-	-	-	-	-	Band Edge
48	802.11ax HE160	143	13332	47.65	74	-26.35	V	Peak	Pass	Harmonic
49	802.11ax HE160	207	7251.88	44.49	54.00	-9.51	V	AVERAGE	Pass	Band Edge
49	802.11ax HE160	207	13968	47.38	88.2	-40.82	V	Peak	Pass	Harmonic
50	802.11ax HE20	185	-	-	-	-	-	-	-	Band Edge
50	802.11ax HE20	185	13050.00	47.73	88.20	-40.47	H	Peak	Pass	Harmonic
51	802.11ax HE40	187	-	-	-	-	-	-	-	Band Edge
51	802.11ax HE40	187	13770.00	47.61	88.20	-40.59	V	Peak	Pass	Harmonic
52	802.11ax HE80	183	-	-	-	-	-	-	-	Band Edge
52	802.11ax HE80	183	13730.00	47.81	88.20	-40.39	H	Peak	Pass	Harmonic
53	802.11ax HE160	175	-	-	-	-	-	-	-	Band Edge
53	802.11ax HE160	175	13650.00	47.70	88.20	-40.50	H	Peak	Pass	Harmonic
54	802.11ax HE40	115	-	-	-	-	-	-	-	Band Edge
54	802.11ax HE40	115	13050.00	48.42	88.20	-39.78	H	Peak	Pass	Harmonic
55	802.11ax HE80	119	-	-	-	-	-	-	-	Band Edge
55	802.11ax HE80	119	13090.00	47.41	88.20	-40.79	H	Peak	Pass	Harmonic
56	802.11ax HE160	111	-	-	-	-	-	-	-	Band Edge
56	802.11ax HE160	111	13010.00	47.84	88.20	-40.36	V	Peak	Pass	Harmonic
57	802.11ax HE20	1	5922.72	42.12	68.20	-26.08	H	AVERAGE	Pass	Band Edge
57	802.11ax HE20	1	-	-	-	-	-	-	-	Harmonic
58	802.11ax HE20	229	7273.46	44.42	54.00	-9.58	H	AVERAGE	Pass	Band Edge
58	802.11ax HE20	229	-	-	-	-	-	-	-	Harmonic
59	802.11a	185	-	-	-	-	-	-	-	Band Edge
59	802.11a	185	13750	47.89	88.2	-40.31	V	Peak	Pass	Harmonic
60	802.11ax HE40	227	67.83	32.47	40	-7.53	V	Peak	Pass	LF
61	CO_TX		7253.39	45.92	54.00	-8.08	H	AVERAGE	Pass	Band Edge
			14170.00	50.40	88.20	-37.80	H	Peak	Pass	Harmonic
62	CO_TX		7283.88	45.49	54.00	-8.51	H	AVERAGE	Pass	Band Edge
			14170.00	50.00	88.20	-38.20	H	Peak	Pass	Harmonic
63	802.11ax HE40	227	7125.42	61.11	68.20	-7.09	H	AVERAGE	Pass	Band Edge
	802.11ax HE40	227	14170.00	49.40	88.20	-38.80	H	Peak	Pass	Harmonic



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