FCC RADIO TEST REPORT

FCC ID	**:**	**S9GR760**
Equipment	**:**	**R760 Access Point**
Brand Name	**:**	**RUCKUS**
Model Name	**:**	**R760**
Applicant	**:**	**Ruckus Wireless LLC** **350 W. Java Dr., Sunnyvale CA 94089 USA**
Manufacturer	**:**	**Ruckus Wireless LLC** **350 W. Java Dr., Sunnyvale CA 94089 USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 28, 2021 and testing was performed from Aug. 15, 2021 to Aug. 07, 2024. We, Sporton International (USA) Inc., 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 (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

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History of this test report

Report No.	Version	Description	Issue Date
FR210728001-08B	01	Initial issue of report	Oct. 15, 2024
FR210728001-08B	02	Revise appendix A and Section 3.3 This report is an updated version, replacing the report issued on Oct. 15, 2024.	Oct. 21, 2024
FR210728001-08B	03	Revise appendix A and Antenna Directional Gain This report is an updated version, replacing the report issued on Oct. 21, 2024.	Oct. 22, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)(4)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(4)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Not Required	Standard Access Points
3.5	15.407(b)	Unwanted Emissions	Pass	0.70 dB under the limit at 5912.68 MHz
3.6	15.207	AC Conducted Emission	Pass	9.27 dB under the limit at 0.37 MHz
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Note:
1. Not required means after assessing, test items are not necessary to carry out.
2. Except AC Conducted Emissions and Unwanted Emissions are carrying out, the FR210728001-08B report reuses test data from the FR210728001F report.

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.

1 General Description

1.1 Product Feature of Equipment Under Test

The EUT is an indoor AP with radios including Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax, 802.15.4 (Zigbee), equipped with integrated antennas configured below:

Antenna Configuration	
Antenna Type	**WLAN 2.4GHz** <Ant. A>: Omni Antenna <Ant. B>: Omni Antenna <Ant. C>: Omni Antenna <Ant. D>: Omni Antenna **WLAN 5GHz** **Radio 1 and Radio 2:** <Ant. A>: Omni Antenna <Ant. B>: Omni Antenna <Ant. C>: Omni Antenna <Ant. D>: Omni Antenna **Radio 3:** <Ant. E>: Omni Antenna <Ant. F>: Omni Antenna <Ant. G>: Omni Antenna <Ant. H>: Omni Antenna **WLAN 6GHz** <Ant. E>: Omni Antenna <Ant. F>: Omni Antenna <Ant. G>: Omni Antenna <Ant. H>: Omni Antenna **Bluetooth-LE:** <Ant. 1>Omni Antenna **Zigbee:** <Ant. 1>Omni Antenna

Antenna information			
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Vertical	**<Ant. E>:** 3.7 **<Ant. H>:** 3.7
		Horizontal	**<Ant. F>:** 3.8 **<Ant. G>:** 3.8
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Vertical	**<Ant. E>:** 3.7 **<Ant. H>:** 3.7
		Horizontal	**<Ant. F>:** 3.8 **<Ant. G>:** 3.8

Remark:

1. The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The device is a special case of MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).
   The antenna printed on the secondary board which is vertically/horizontally mounted on the main board. Horizontal and Vertical antennas are cross-polarization antenna and the transmitter outputs is a 90-degree phase-shifted replica of the other and the phase centers of the two antennas orientations are co-located.

1.1.1 Antenna Directional Gain

The device is the special case of a MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).

Refer to KDB 662911 D01 v02r01 F)2)c) for a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

The total gain—including array gain—is computed separately for each of the two polarizations using the procedures presented in KDB 662911 D01 v02r01. The highest of the total gains shall apply.

Horizontal and Vertical antennas are cross-polarization antenna and the transmitter outputs is a 90-degree phase-shifted replica of the other and the phase centers of the two antennas orientations are co-located.

For power measurements on IEEE 802.11 devices,

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

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 follows F)2)f)i) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX}$ + 10 log(N_{ANT}/N_{SS}) dBi, where N_{SS} = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is.the gain of the antenna having the highest gain (in dBi).

The directional gain of EUT is listed in the following table.

6GHz CDD mode	Ant E Vertical polarization (dBi)	Ant H Vertical polarization (dBi)	DG for Power (dBi)	DG for PSD (dBi)
UNII-5	3.70	3.70	3.70	6.71
UNII-7	3.70	3.70	3.70	6.71
6GHz CDD mode	**Ant F Horizontal polarization (dBi)**	**Ant G Horizontal polarization (dBi)**	**DG for Power (dBi)**	**DG for PSD (dBi)**
UNII-5	3.80	3.80	3.80	6.81
UNII-7	3.80	3.80	3.80	6.81

Calculation:

Directional gain of power measurement(Horizontal polarization):

= max. antenna gain (3.8dBi, 3.8dBi) + 0 = 3.8 dBi

Directional gain of power measurement(Vertical polarization):

= max. antenna gain (3.7dBi, 3.7dBi) + 0 = 3.7 dBi

Directional gain of PSD measurement (Horizontal polarization):

= max. antenna gain (3.8dBi, 3.8dBi)+10*log(2/1) = 6.81dBi

Directional gain of PSD measurement (Vertical polarization):

= max. antenna gain (3.7dBi, 3.7dBi)+10*log(2/1) = 6.71dBi

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	**Sporton Site No.**
	TH01-CA, 03CH02-CA, CO01-CA

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

FCC Designation No.: US1250

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 987594 D02 U-NII 6 GHz EMC Measurement v03
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All the test items were validated and recorded in accordance with the standards without any modification during the testing.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

BW 20M	**Channel**	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	**Channel**	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	**Channel**	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	**Channel**	15							
	Freq. (MHz)	6025							

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	117	121	125
	Freq. (MHz)	6535	6555	6575
BW 40M	Channel	-	123	
	Freq. (MHz)	-	6565	

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181
	Freq. (MHz)	6755	6775	6795	6815	6835	6855
BW 40M	Channel	163		171		179	
	Freq. (MHz)	6765		6805		6845	
BW 80M	Channel	167			-		
	Freq. (MHz)	6785			-		

2.2 Test Mode

All modulation schemes/data rate are verified by conducted power test case, and the modulation schemes with highest power is used for all test cases. The final test items are considering the modulation schemes and the worst data rates as the table below.

CDD Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20 (Covered by HE20)	**MCS0**
802.11n HT40 (Covered by HE40)	**MCS0**
802.11ac VHT20 (Covered by HE20)	**MCS0**
802.11ac VHT40 (Covered by HE40)	**MCS0**
802.11ac VHT80 (Covered by HE80)	**MCS0**
802.11ac VHT160 (Covered by HE160)	**MCS0**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**
802.11ax HE160	**MCS0**

Remark:

1 Since the verify power, the smaller power can be covered by the higher power. The SISO Mode is covered by MIMO Mode.

2 The 802.11ax covers the 802.11n and 11ac due to same modulation family scheme.

3 After preliminary scan, CDD mode is determined to be the worst case compared to Beamforming mode, hence, all the conducted test is performed in CDD mode.

AC Conducted Emission Test Cases are listed in the following table:

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth – LE Idle + Zigbee Link + WLAN (5GHz) Radio 2 Link + WLAN (6GHz) Link + AC Adapter + LAN 1 Link + LAN 2 Link + USB Flash Drive (Load) Mode 2 : WLAN (2.4GHz) Link + Bluetooth – LE Idle + Zigbee Link + WLAN (5GHz) Radio 3 Link + WLAN (5GHz) (Iron 5G -QPQ190) Link + AC Adapter + LAN1 Link + LAN 2 Link + USB Flash Drive (Load) Mode 3 : WLAN (2.4GHz) Link + Bluetooth – LE Link + Zigbee Idle + WLAN (5GHz) Radio 2 Link + WLAN (6GHz) Link + AC Adapter + LAN 1 Link + LAN 2 Link + USB Flash Drive (Load)
Remark: The worst case of Conducted Emission is mode 1; only the test data of it was reported.	

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11a	802.11a
L	Low	001	117
M	Middle	045	149
H	High	093	181

Ch. #		UNII-5 (5925-6425 MHz)			
		802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L	Low	001	003	007	015
M	Middle	045	043	039	047
H	High	093	091	087	079

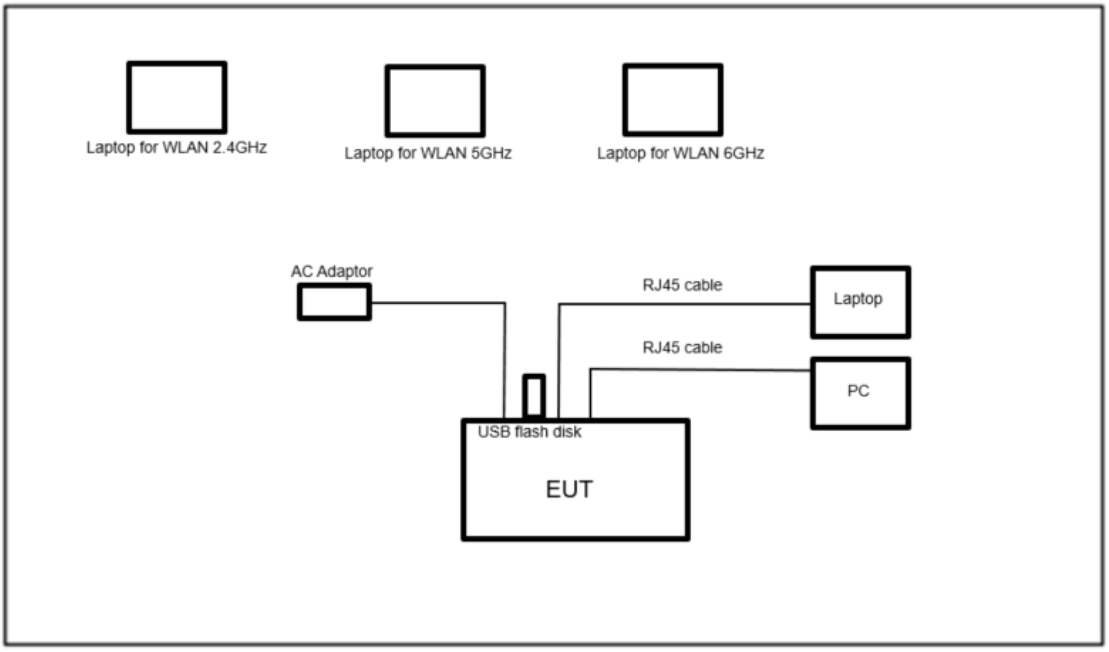
Ch. #		UNII-7 (6525-6875 MHz)			
		802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L	Low	117	123	135	143
M	Middle	149	147	151	
H	High	181	179	167	

Remark:

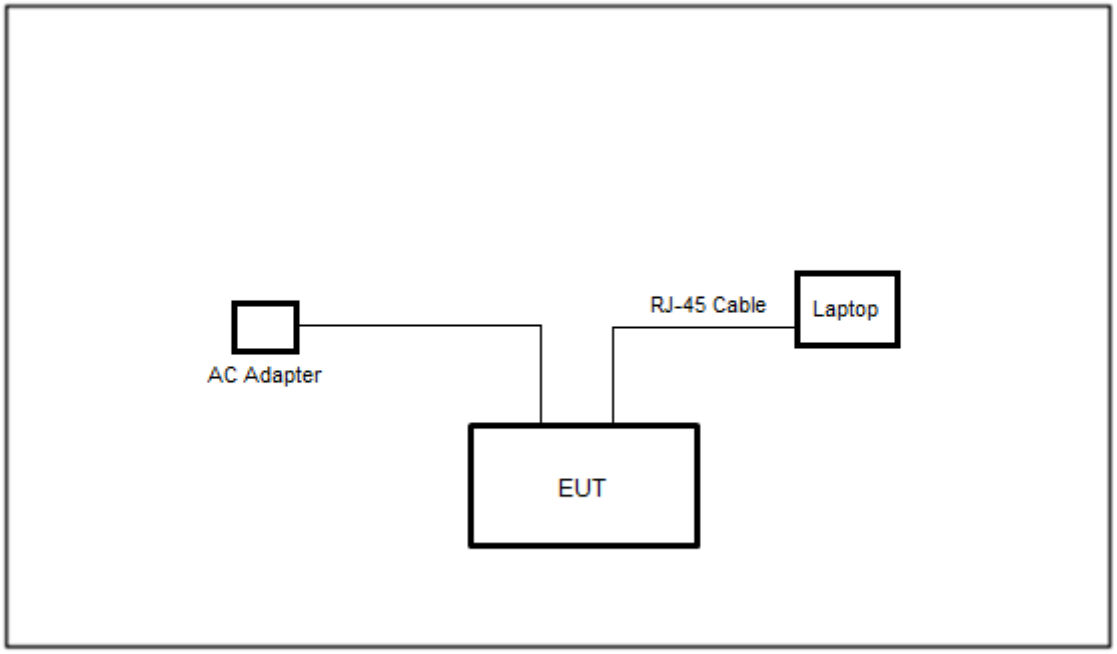
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. RF power on each chain in MIMO mode is greater than SISO mode. The SISO Mode is covered by MIMO Mode.
3. After preliminary scan designated by the manufacturer, CDD mode is determined to be the worst case compared to Beamforming mode, hence, all the radiated test is performed in CDD mode.
4. The setup method between CDD and Beamforming mode is identical except that one of the polarizations is disabled while Beamforming mode is activated so both modes share the same conducted power table. The only difference is how directional gain is calculated between two modes.
5. Partial RUs are not supported at the current product stage, the test report and test results do not cover any Partial RU test assessments.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Radiated Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	ACER	Altos PS548-G1	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
2.	Notebook	LENOVO	80RU	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
3.	Notebook	MSI	MS-17F3	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
4.	PC	Fractal	FD-C-DEF7A-01 (NETINTX550TR Intel X550T2BLK)	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
5.	USB Flash drive	SanDisk	N/A	N/A	N/A	N/A
6.	AC Adaptor	Ruckus	740-64277-001	N/A	N/A	AC I/P: Unshielded, 1.2m

2.5 EUT Operation Test Setup

The RF test items, utility “PuTTY Release 0.62” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

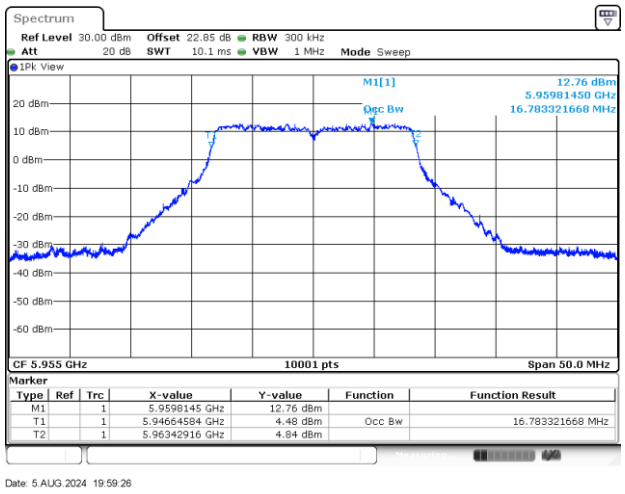
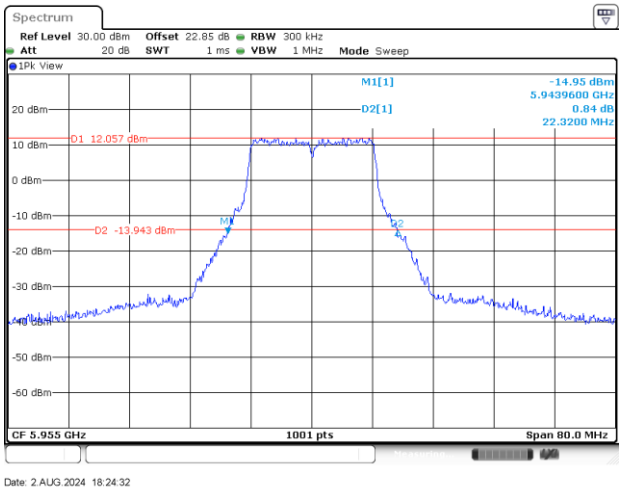
3.1.4 Test Setup

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

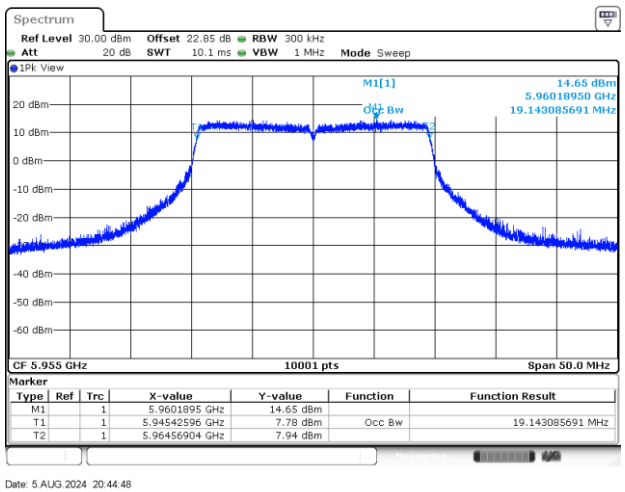
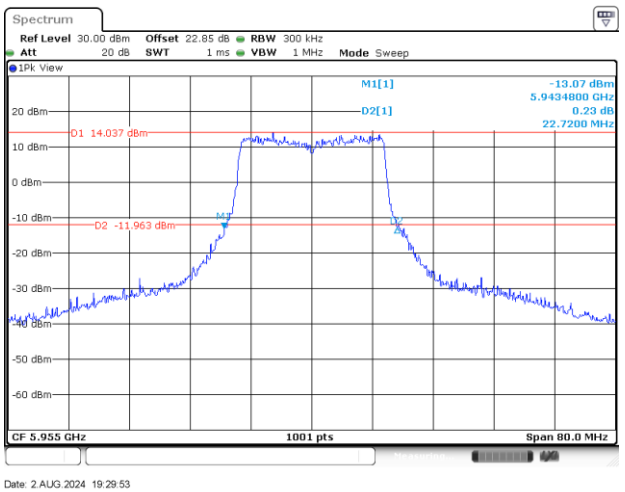
MIMO <Ant. E+F+G+H>

<802.11a>

99% Occupied Bandwidth	26dB Bandwidth
	

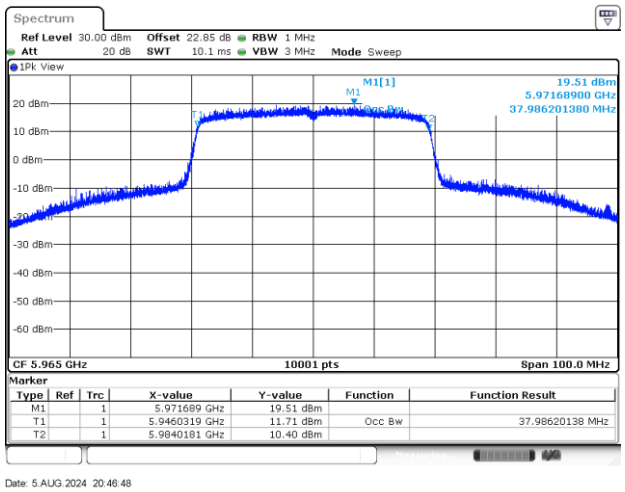
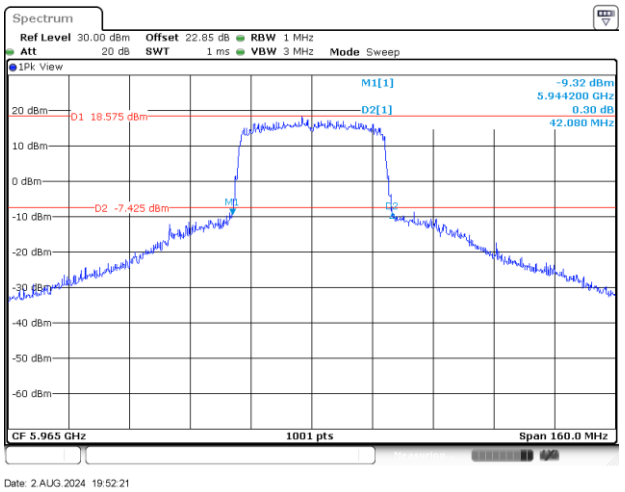
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

99% Occupied Bandwidth	26dB Bandwidth
	

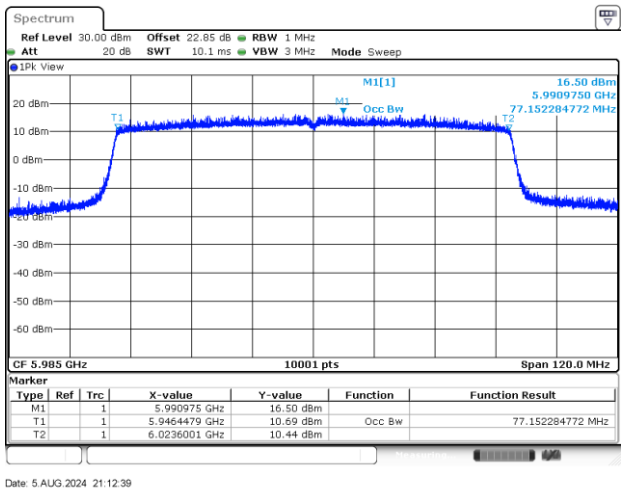
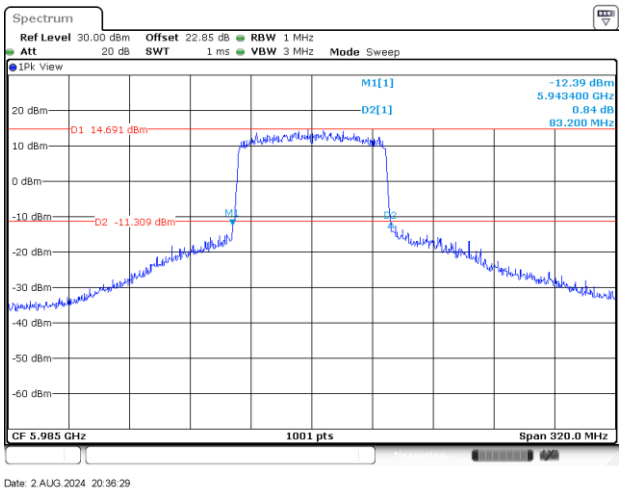
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

99% Occupied Bandwidth	26dB Bandwidth
	

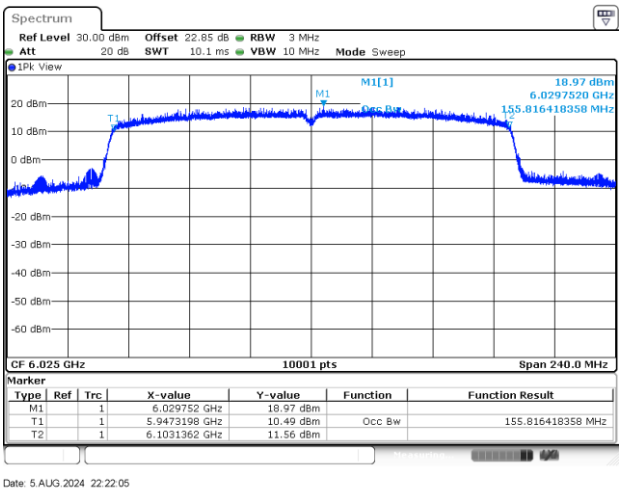
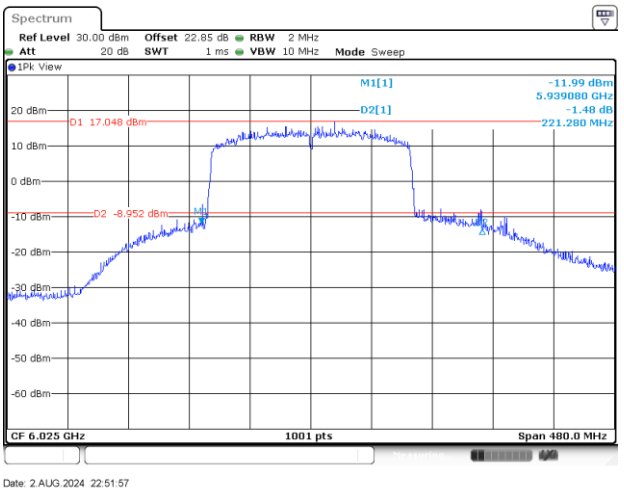
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

99% Occupied Bandwidth	26dB Bandwidth
	

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

<802.11ax HE160>

99% Occupied Bandwidth	26dB Bandwidth
	

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

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

3.2.2 Measuring Instruments

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

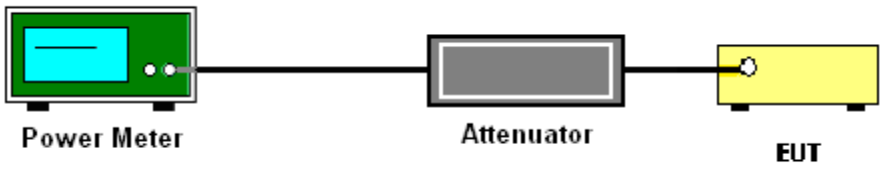
3.2.3 Test Procedures

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 Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(4) For a standard power access point and fixed client device operating in the 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.

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).

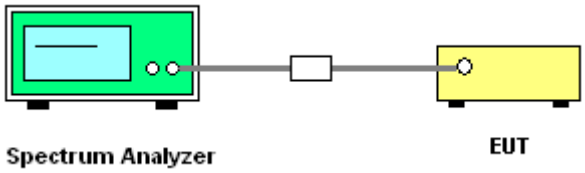
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was 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.

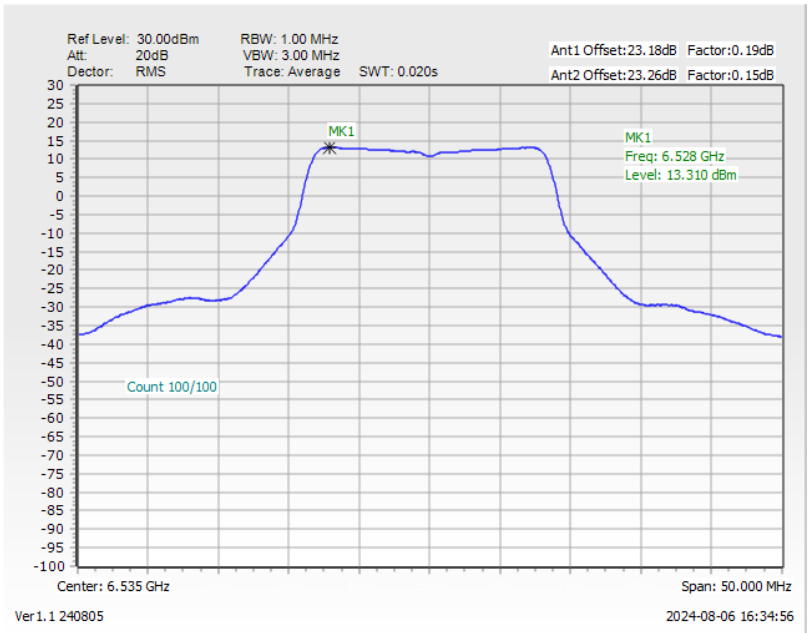
3.3.4 Test Setup



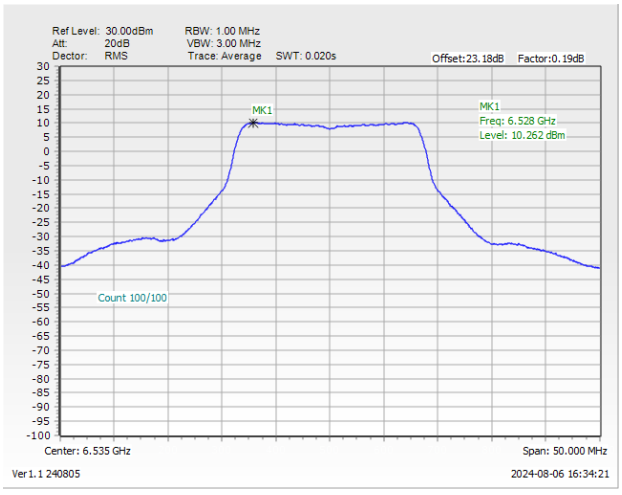
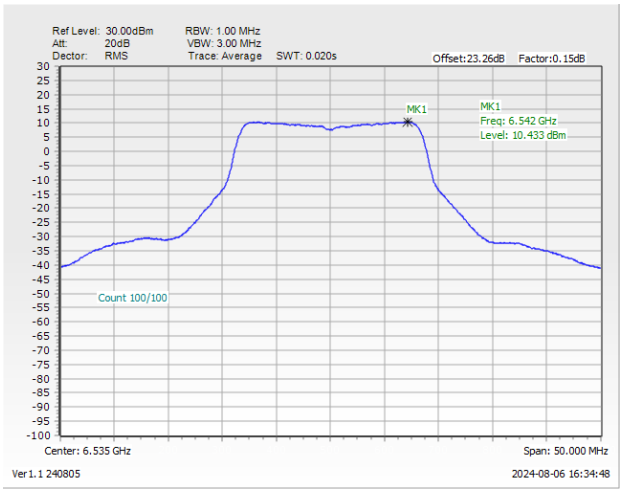
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

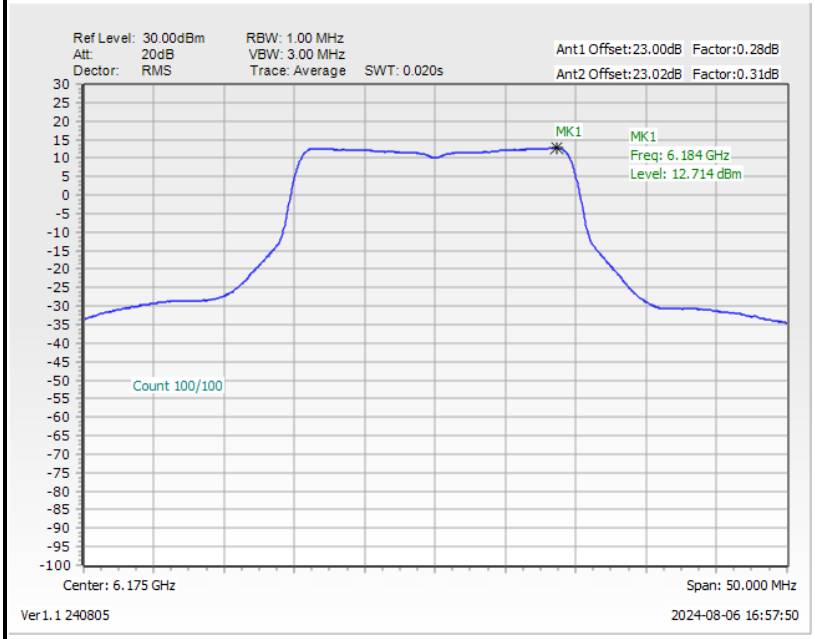
<802.11a 6535MHz>

Worst Case Power Density (dBm/MHz)


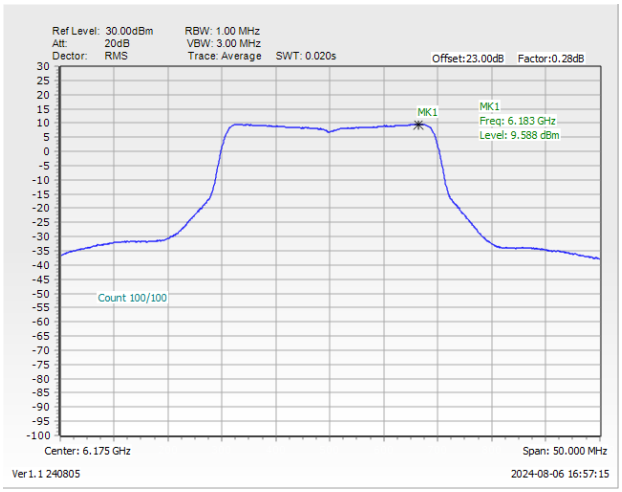
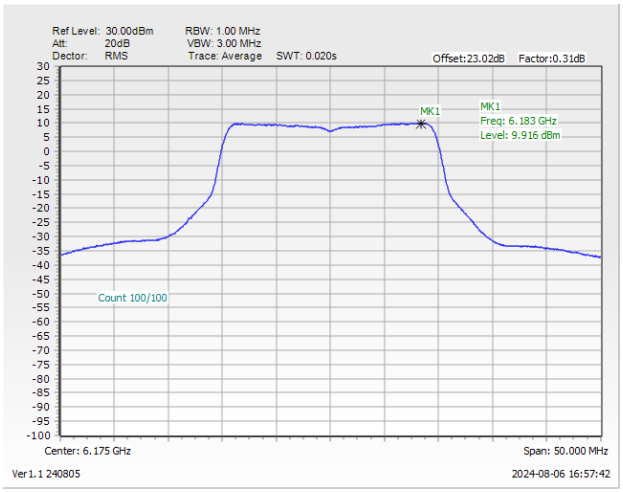
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Worst Case Power Density Trace 1 (Ant F)	Worst Case Power Density Trace 2 (Ant G)
	

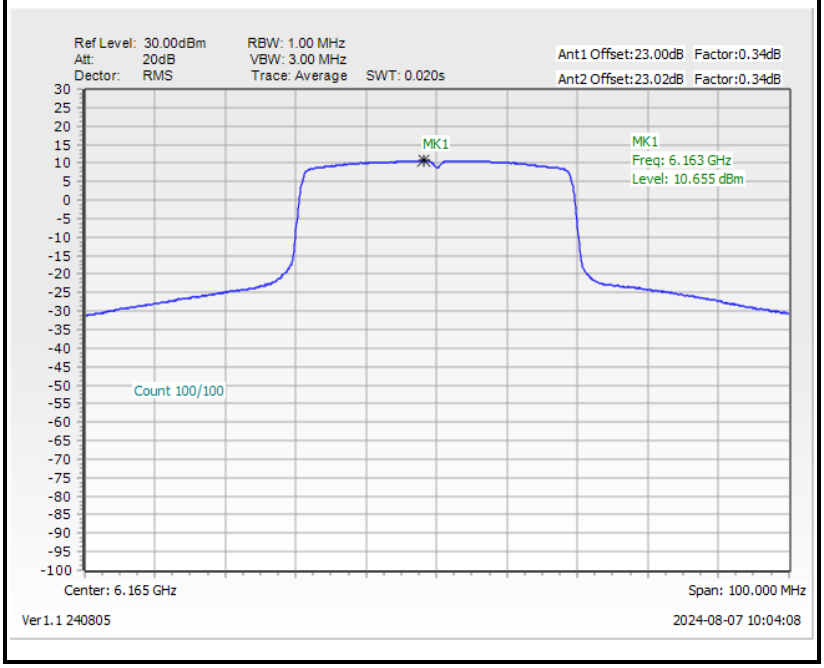
<802.11ax HE20 6175MHz>

Worst Case Power Density (dBm/MHz)


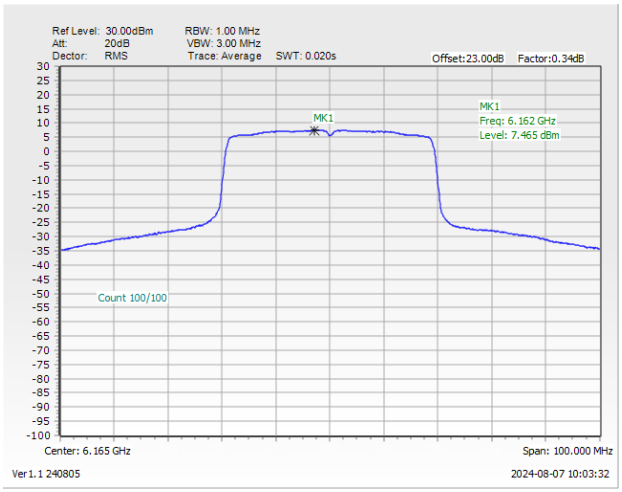
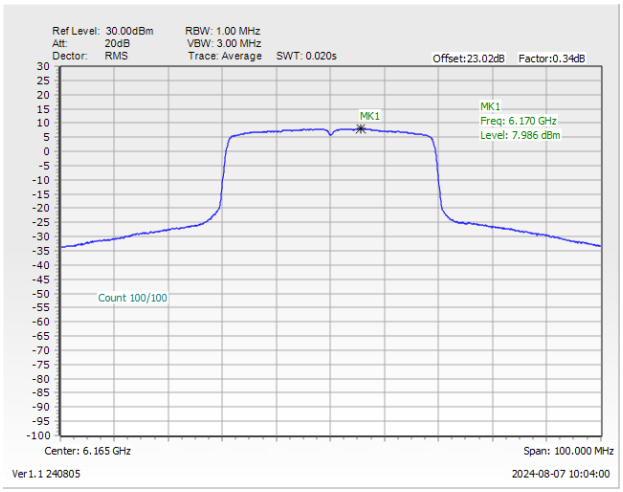
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Worst Case Power Density Trace 1 (Ant F)	Worst Case Power Density Trace 2 (Ant G)
	

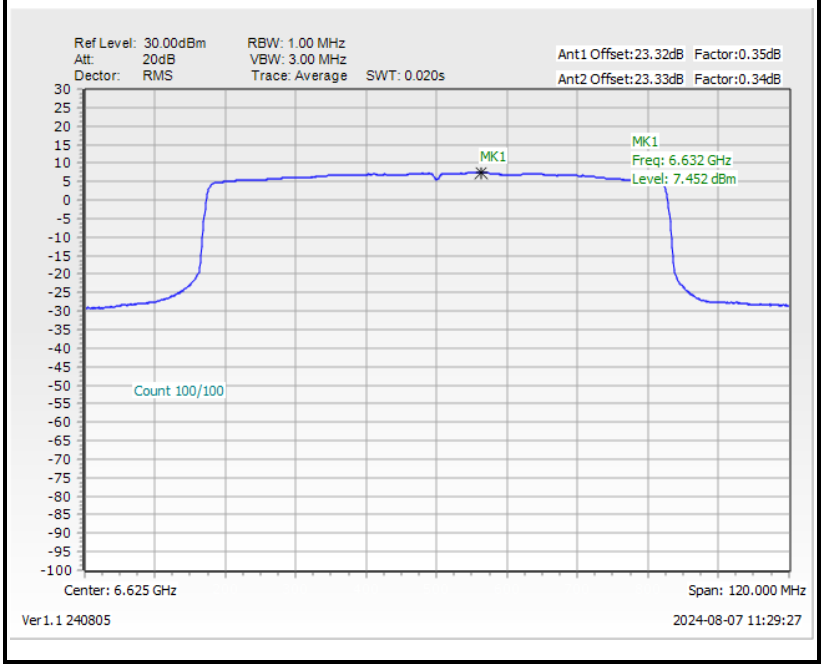
<802.11ax HE40 6165MHz>

Worst Case Power Density (dBm/MHz)


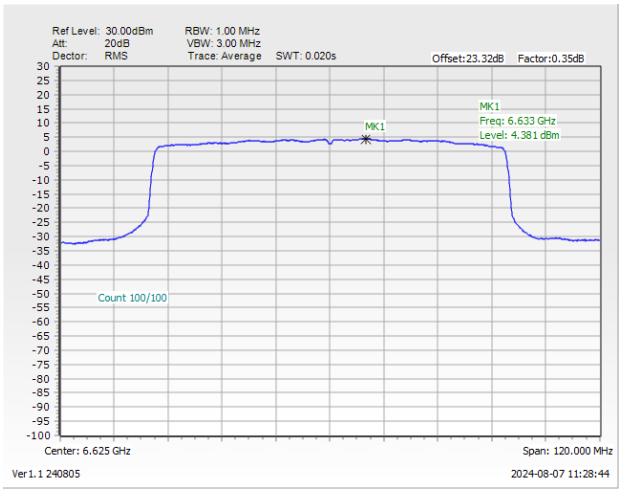
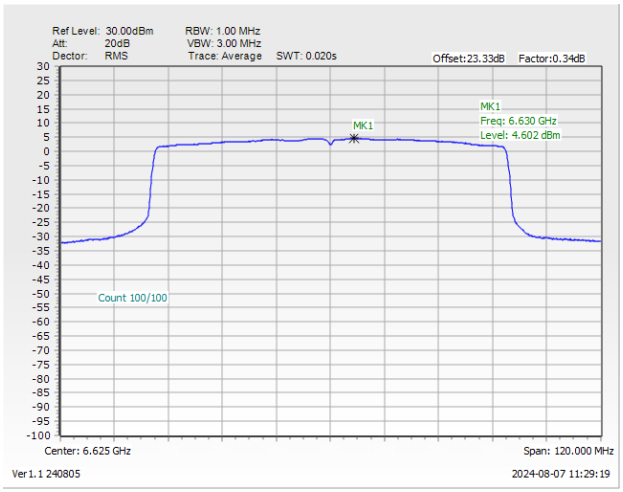
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Worst Case Power Density Trace 1 (Ant F)	Worst Case Power Density Trace 2 (Ant G)
	

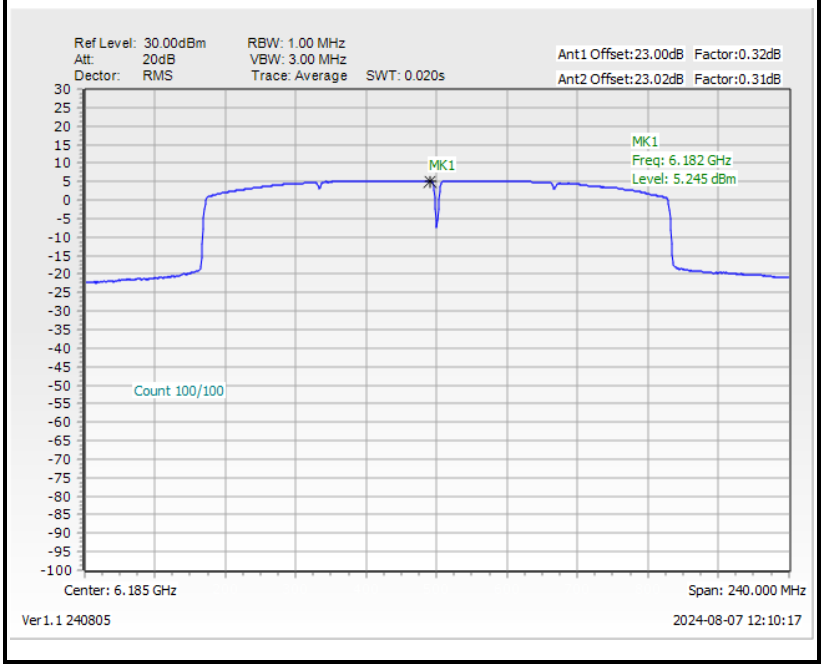
<802.11ax HE80 6625MHz>

Worst Case Power Density (dBm/MHz)


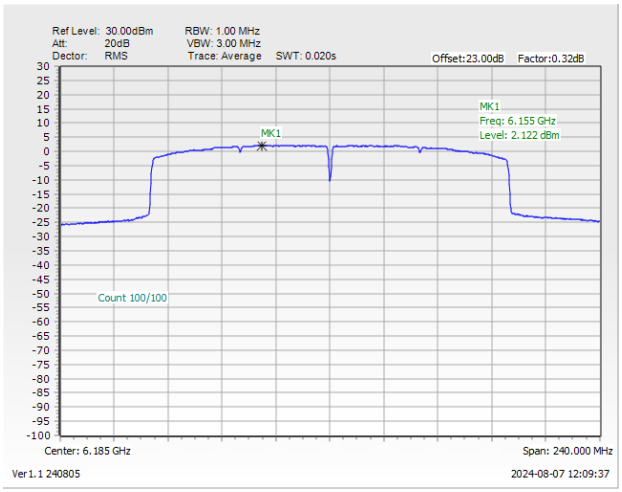
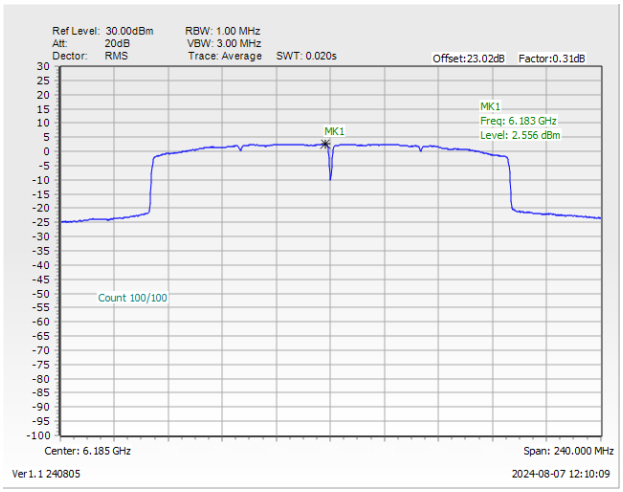
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Worst Case Power Density Trace 1 (Ant F)	Worst Case Power Density Trace 2 (Ant G)
	

<802.11ax HE160 6185MHz>

Worst Case Power Density (dBm/MHz)


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

Worst Case Power Density Trace 1 (Ant F)	Worst Case Power Density Trace 2 (Ant G)
	

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(a)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

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

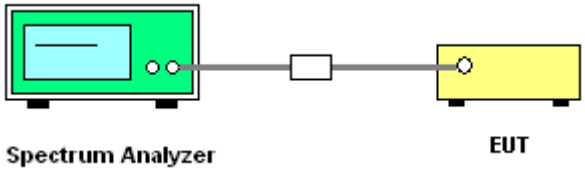
3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v03.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
   a) Set the span to encompass the entire 26 dB EBW of the signal.
   b) Set RBW = same RBW used for 26 dB EBW measurement.
   c) Set VBW ≥ 3 X RBW
   d) Number of points in sweep ≥ [2 X span / RBW].
   e) Sweep time = auto.
   f) Detector = RMS (i.e., power averaging)
   g) Trace average at least 100 traces in power averaging (rms) mode.
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
   b. Suppressed by 28 dB at one channel bandwidth from the channel center.
   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup

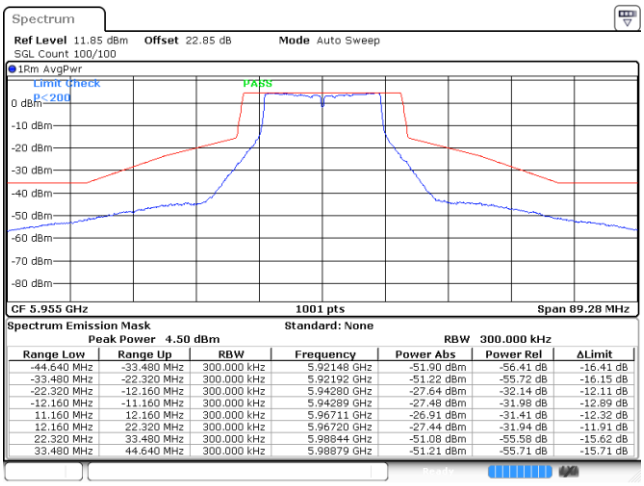


3.4.5 Test Result

MIMO <Ant. E+H(E)>

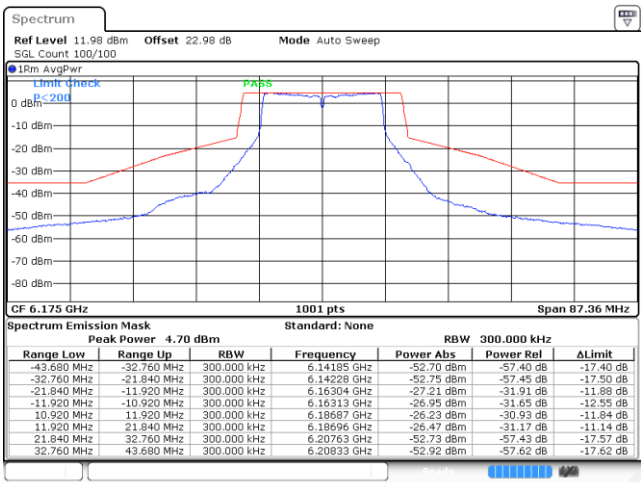
EUT Mode :	802.11a

Plot on Channel 5955MHz



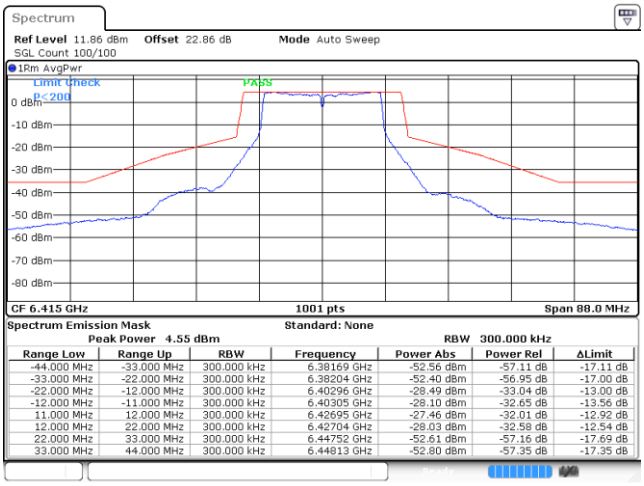
Date: 2.AUG.2024 18:25:01

Plot on Channel 6175MHz



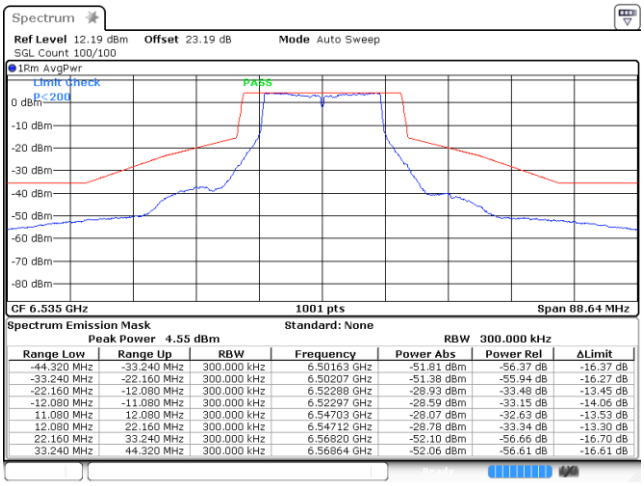
Date: 2.AUG.2024 19:13:07

Plot on Channel 6415MHz



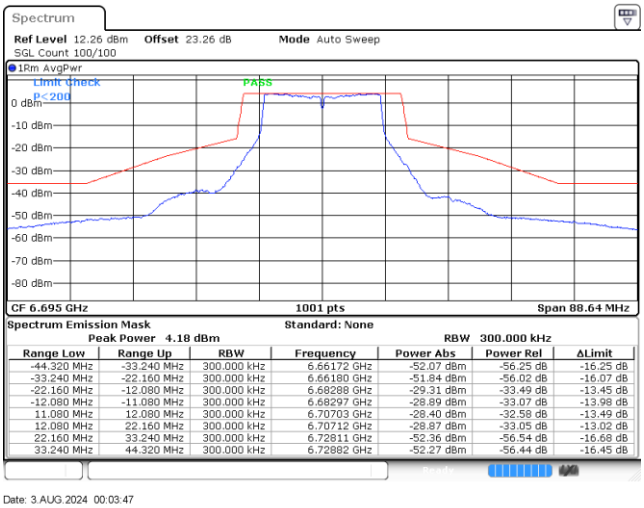
Date: 2.AUG.2024 19:20:33

Plot on Channel 6535MHz



Date: 2.AUG.2024 23:42:30

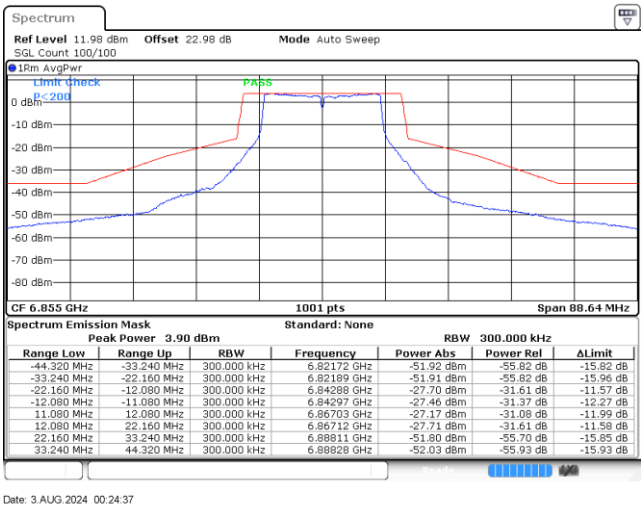
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.320 MHz	-33.240 MHz	300.000 kHz	6.66172 GHz	-52.07 dBm	-56.25 dB	-16.25 dB
-33.240 MHz	-22.160 MHz	300.000 kHz	6.66180 GHz	-51.84 dBm	-56.02 dB	-16.07 dB
-22.160 MHz	-12.080 MHz	300.000 kHz	6.68288 GHz	-29.31 dBm	-33.49 dB	-13.45 dB
-12.080 MHz	-11.080 MHz	300.000 kHz	6.68297 GHz	-28.89 dBm	-33.07 dB	-13.98 dB
11.080 MHz	12.080 MHz	300.000 kHz	6.70703 GHz	-28.40 dBm	-32.58 dB	-13.49 dB
12.080 MHz	22.160 MHz	300.000 kHz	6.70712 GHz	-28.87 dBm	-33.05 dB	-13.02 dB
22.160 MHz	33.240 MHz	300.000 kHz	6.72811 GHz	-52.36 dBm	-56.54 dB	-16.68 dB
33.240 MHz	44.320 MHz	300.000 kHz	6.72882 GHz	-52.27 dBm	-56.44 dB	-16.45 dB

Date: 3.AUG.2024 00:03:47

Plot on Channel 6855MHz

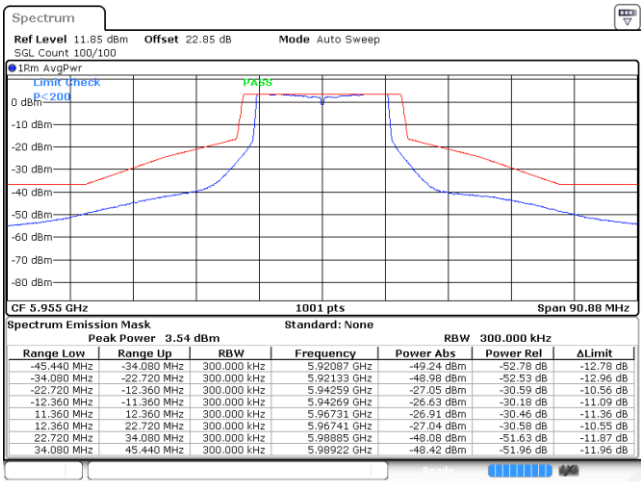


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.320 MHz	-33.240 MHz	300.000 kHz	6.82172 GHz	-51.92 dBm	-55.82 dB	-15.82 dB
-33.240 MHz	-22.160 MHz	300.000 kHz	6.82189 GHz	-51.91 dBm	-55.82 dB	-15.96 dB
-22.160 MHz	-12.080 MHz	300.000 kHz	6.84288 GHz	-27.70 dBm	-31.61 dB	-11.57 dB
-12.080 MHz	-11.080 MHz	300.000 kHz	6.84297 GHz	-27.46 dBm	-31.37 dB	-12.27 dB
11.080 MHz	12.080 MHz	300.000 kHz	6.86703 GHz	-27.17 dBm	-31.08 dB	-11.99 dB
12.080 MHz	22.160 MHz	300.000 kHz	6.86712 GHz	-27.71 dBm	-31.61 dB	-11.58 dB
22.160 MHz	33.240 MHz	300.000 kHz	6.88811 GHz	-51.80 dBm	-55.70 dB	-15.85 dB
33.240 MHz	44.320 MHz	300.000 kHz	6.88828 GHz	-52.03 dBm	-55.93 dB	-15.93 dB

Date: 3.AUG.2024 00:24:37

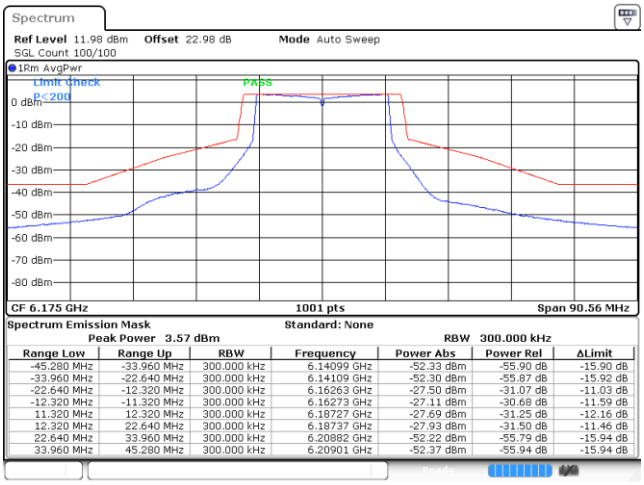
EUT Mode :	802.11ax HE20

Plot on Channel 5955MHz



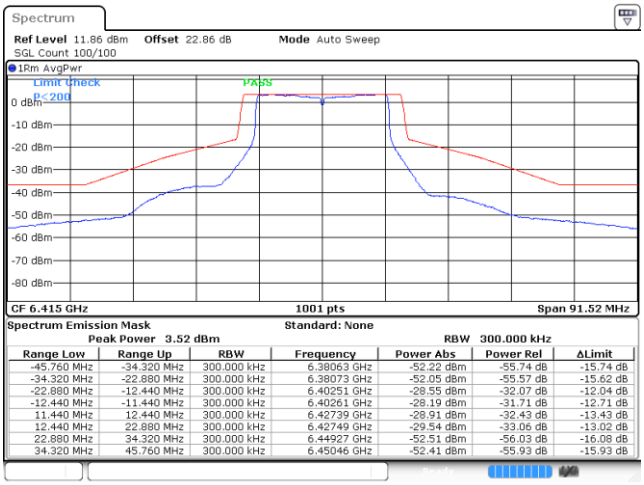
Date: 2.AUG.2024 19:30:13

Plot on Channel 6175MHz



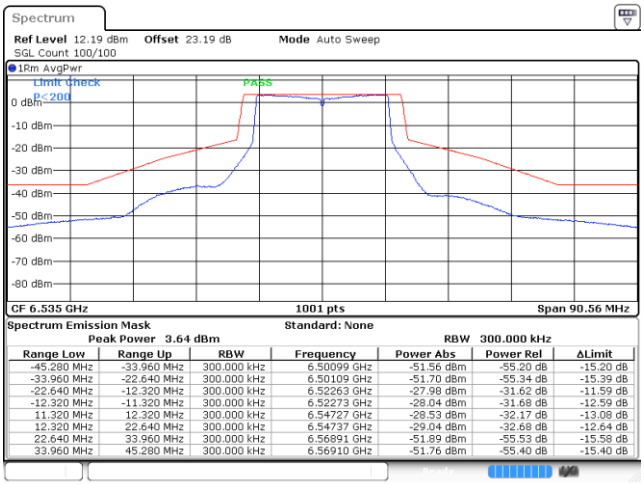
Date: 2.AUG.2024 19:38:42

Plot on Channel 6415MHz



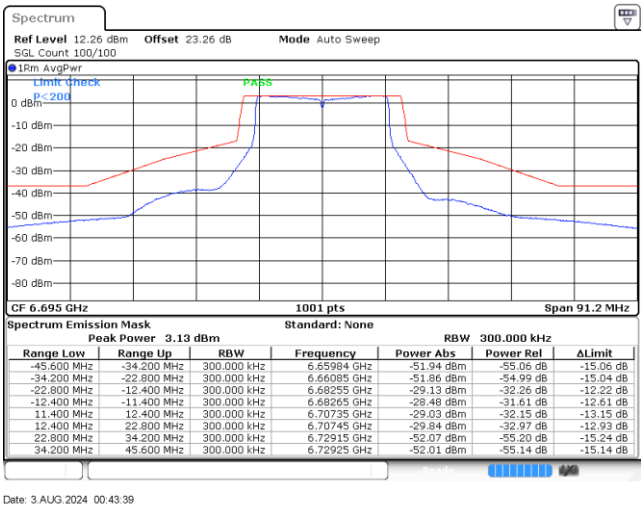
Date: 2.AUG.2024 19:46:06

Plot on Channel 6535MHz



Date: 3.AUG.2024 00:59:32

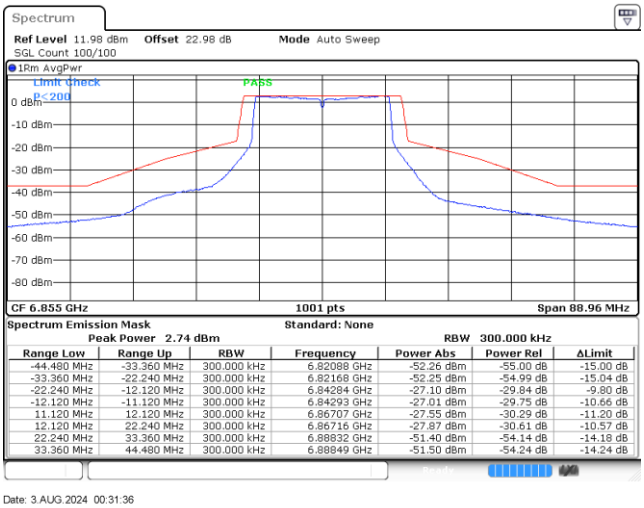
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-45.600 MHz	-34.200 MHz	300.000 kHz	6.65984 GHz	-51.94 dBm	-55.06 dB	-15.06 dB
-34.200 MHz	-22.800 MHz	300.000 kHz	6.66085 GHz	-51.86 dBm	-54.99 dB	-15.04 dB
-22.800 MHz	-12.400 MHz	300.000 kHz	6.68255 GHz	-29.13 dBm	-32.26 dB	-12.22 dB
-12.400 MHz	-11.400 MHz	300.000 kHz	6.68265 GHz	-28.48 dBm	-31.61 dB	-12.61 dB
11.400 MHz	12.400 MHz	300.000 kHz	6.70735 GHz	-29.03 dBm	-32.15 dB	-13.15 dB
12.400 MHz	22.800 MHz	300.000 kHz	6.70745 GHz	-29.84 dBm	-32.97 dB	-12.93 dB
22.800 MHz	34.200 MHz	300.000 kHz	6.72915 GHz	-52.07 dBm	-55.20 dB	-15.24 dB
34.200 MHz	45.600 MHz	300.000 kHz	6.72925 GHz	-52.01 dBm	-55.14 dB	-15.14 dB

Date: 3.AUG.2024 00:43:39

Plot on Channel 6855MHz

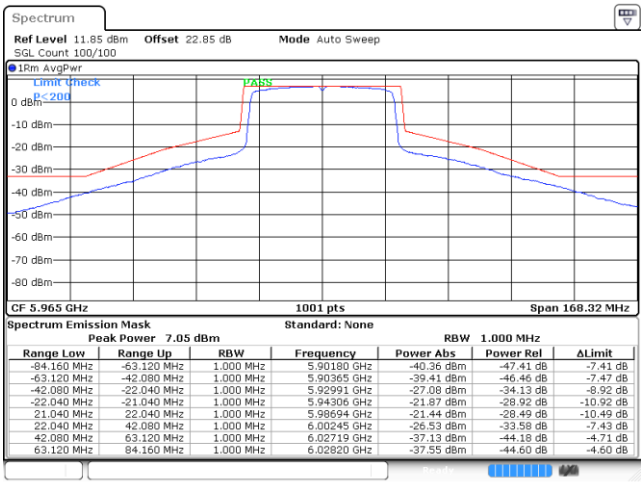


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.480 MHz	-33.360 MHz	300.000 kHz	6.82088 GHz	-52.26 dBm	-55.00 dB	-15.00 dB
-33.360 MHz	-22.240 MHz	300.000 kHz	6.82168 GHz	-52.25 dBm	-54.99 dB	-15.04 dB
-22.240 MHz	-12.120 MHz	300.000 kHz	6.84284 GHz	-27.10 dBm	-29.84 dB	-9.80 dB
-12.120 MHz	-11.120 MHz	300.000 kHz	6.84293 GHz	-27.01 dBm	-29.75 dB	-10.66 dB
11.120 MHz	12.120 MHz	300.000 kHz	6.86707 GHz	-27.55 dBm	-30.29 dB	-11.20 dB
12.120 MHz	22.240 MHz	300.000 kHz	6.86716 GHz	-27.87 dBm	-30.61 dB	-10.57 dB
22.240 MHz	33.360 MHz	300.000 kHz	6.88832 GHz	-51.40 dBm	-54.14 dB	-14.18 dB
33.360 MHz	44.480 MHz	300.000 kHz	6.88849 GHz	-51.50 dBm	-54.24 dB	-14.24 dB

Date: 3.AUG.2024 00:31:36

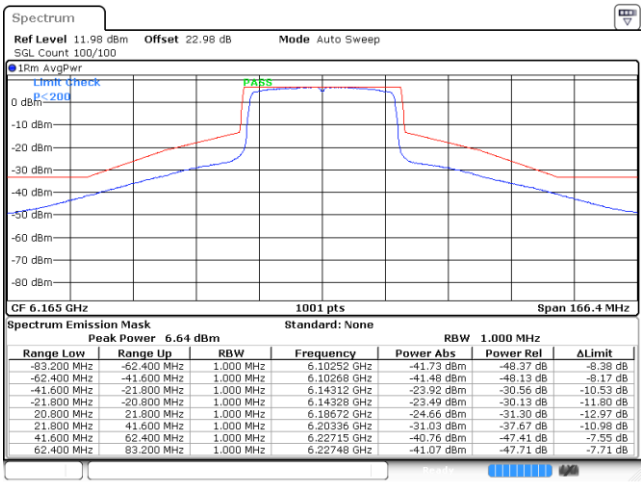
EUT Mode :	802.11ax HE40

Plot on Channel 5965MHz



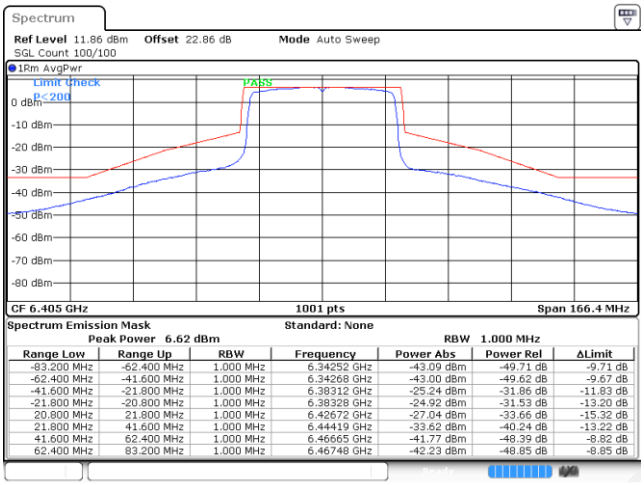
Date: 2.AUG.2024 19:52:40

Plot on Channel 6165MHz



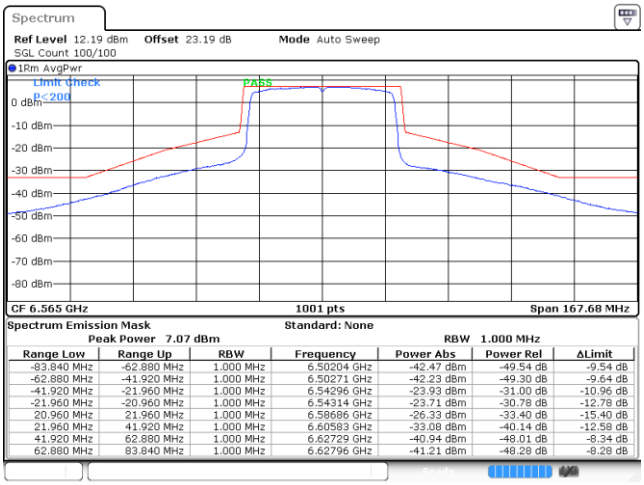
Date: 2.AUG.2024 20:00:01

Plot on Channel 6405MHz



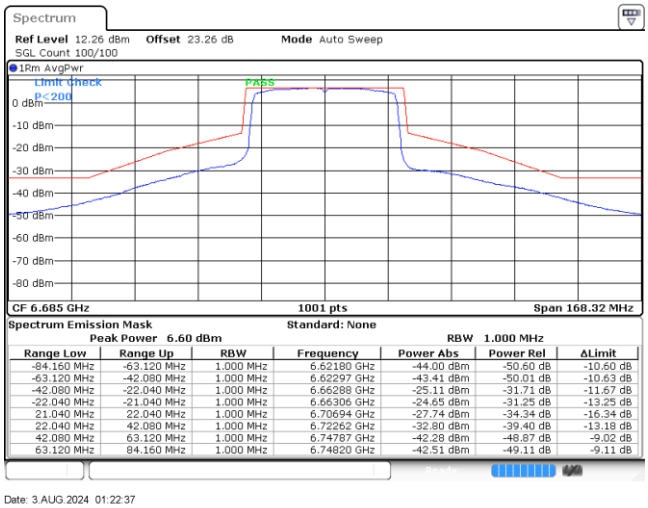
Date: 2.AUG.2024 20:08:30

Plot on Channel 6565MHz



Date: 3.AUG.2024 01:09:57

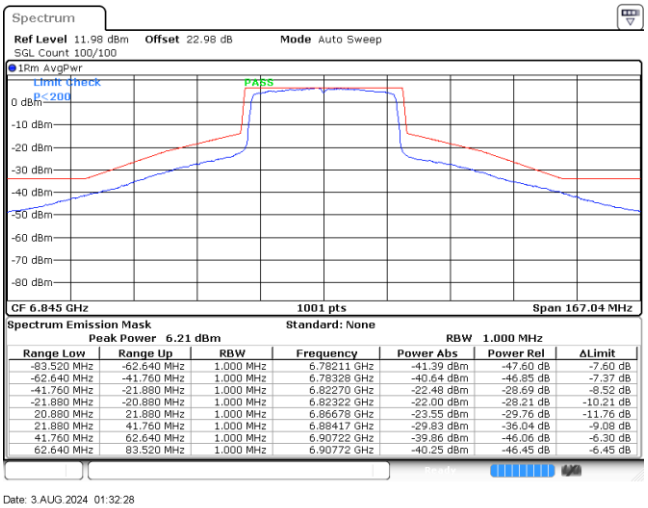
Plot on Channel 6685MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-84.160 MHz	-63.120 MHz	1.000 MHz	6.62180 GHz	-44.00 dBm	-50.60 dB	-10.60 dB
-63.120 MHz	-42.080 MHz	1.000 MHz	6.62297 GHz	-43.41 dBm	-50.01 dB	-10.63 dB
-42.080 MHz	-22.040 MHz	1.000 MHz	6.66288 GHz	-25.11 dBm	-31.71 dB	-11.67 dB
-22.040 MHz	-21.040 MHz	1.000 MHz	6.66306 GHz	-24.65 dBm	-31.25 dB	-13.25 dB
21.040 MHz	22.040 MHz	1.000 MHz	6.70694 GHz	-27.74 dBm	-34.34 dB	-16.34 dB
22.040 MHz	42.080 MHz	1.000 MHz	6.72262 GHz	-32.80 dBm	-39.40 dB	-13.18 dB
42.080 MHz	63.120 MHz	1.000 MHz	6.74787 GHz	-42.28 dBm	-48.87 dB	-9.02 dB
63.120 MHz	84.160 MHz	1.000 MHz	6.74820 GHz	-42.51 dBm	-49.11 dB	-9.11 dB

Date: 3.AUG.2024 01:22:37

Plot on Channel 6845MHz

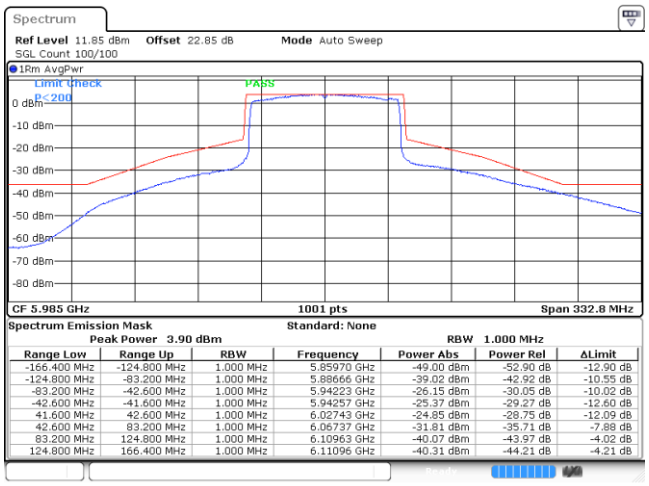


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-83.520 MHz	-62.640 MHz	1.000 MHz	6.78211 GHz	-41.39 dBm	-47.60 dB	-7.60 dB
-62.640 MHz	-41.760 MHz	1.000 MHz	6.78328 GHz	-40.64 dBm	-46.85 dB	-7.37 dB
-41.760 MHz	-21.880 MHz	1.000 MHz	6.82270 GHz	-22.48 dBm	-28.69 dB	-8.52 dB
-21.880 MHz	-20.880 MHz	1.000 MHz	6.82322 GHz	-22.00 dBm	-28.21 dB	-10.21 dB
20.880 MHz	21.880 MHz	1.000 MHz	6.86678 GHz	-23.55 dBm	-29.76 dB	-11.76 dB
21.880 MHz	41.760 MHz	1.000 MHz	6.88417 GHz	-29.83 dBm	-36.04 dB	-9.08 dB
41.760 MHz	62.640 MHz	1.000 MHz	6.90722 GHz	-39.86 dBm	-46.06 dB	-6.30 dB
62.640 MHz	83.520 MHz	1.000 MHz	6.90772 GHz	-40.25 dBm	-46.45 dB	-6.45 dB

Date: 3.AUG.2024 01:32:28

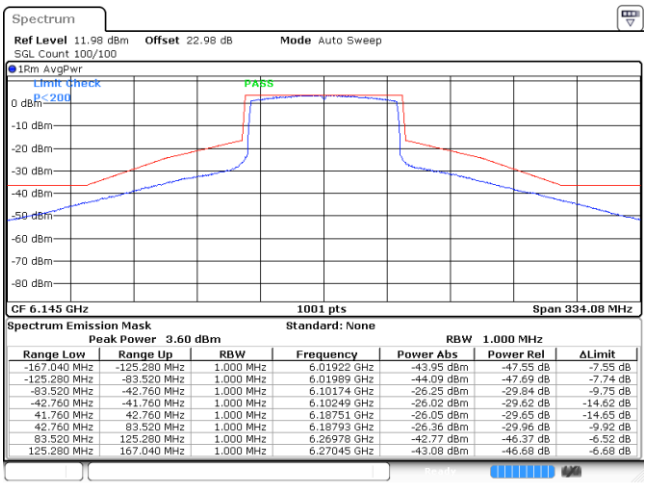
EUT Mode :	802.11ax HE80

Plot on Channel 5985MHz



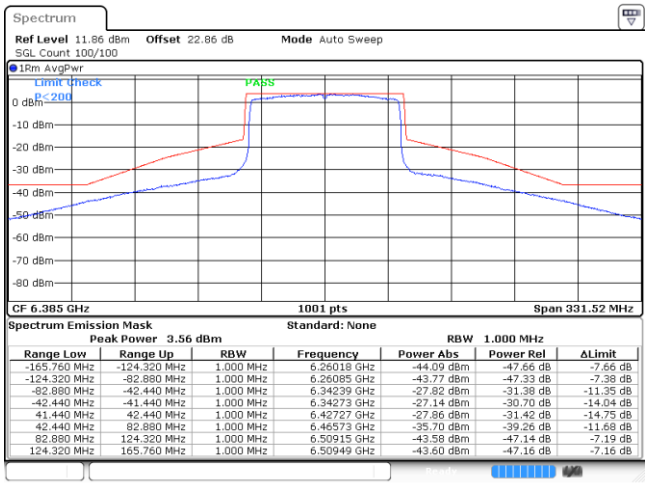
Date: 2.AUG.2024 20:36:42

Plot on Channel 6145MHz



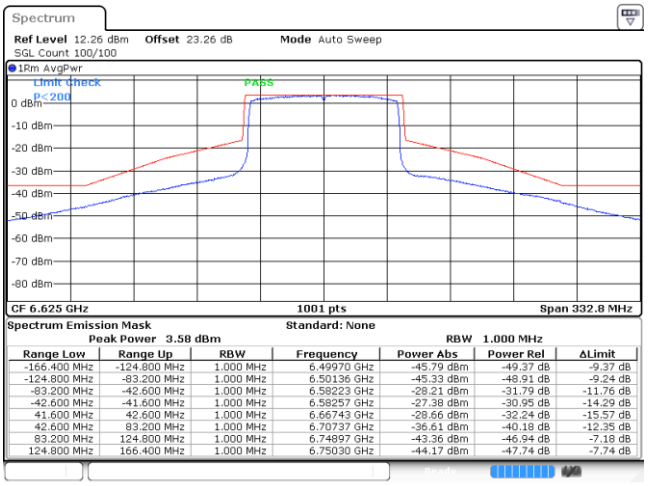
Date: 2.AUG.2024 20:46:49

Plot on Channel 6385MHz



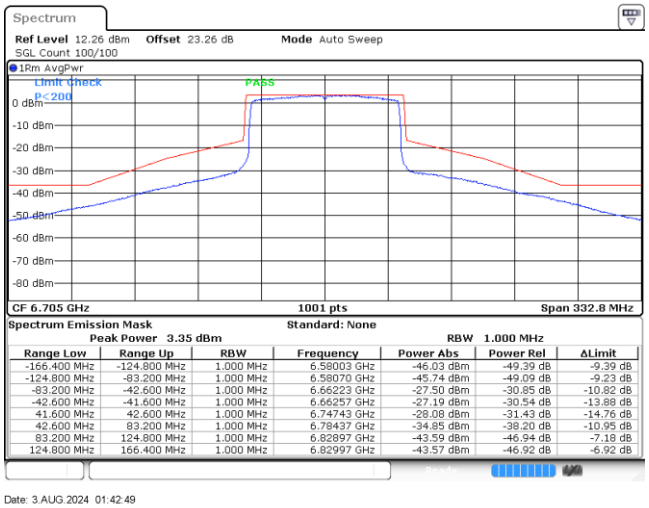
Date: 2.AUG.2024 20:55:10

Plot on Channel 6625MHz



Date: 3.AUG.2024 01:47:16

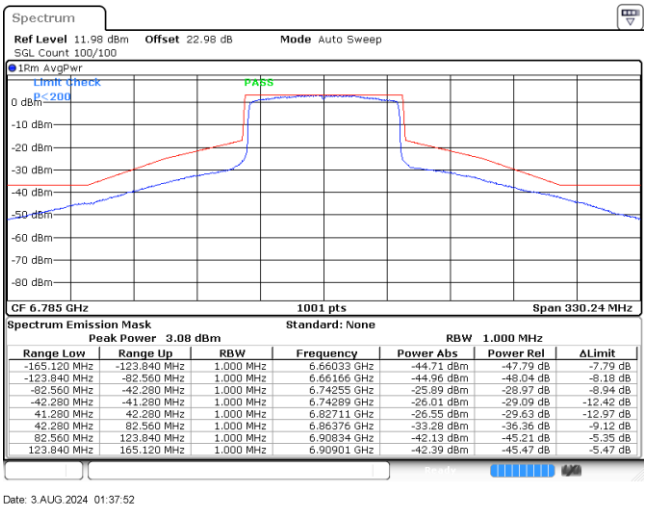
Plot on Channel 6705MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-166.400 MHz	-124.800 MHz	1.000 MHz	6.58003 GHz	-46.03 dBm	-49.39 dB	-9.39 dB
-124.800 MHz	-83.200 MHz	1.000 MHz	6.58070 GHz	-45.74 dBm	-49.09 dB	-9.23 dB
-83.200 MHz	-42.600 MHz	1.000 MHz	6.66223 GHz	-27.50 dBm	-30.85 dB	-10.82 dB
-42.600 MHz	-41.600 MHz	1.000 MHz	6.66257 GHz	-27.19 dBm	-30.54 dB	-13.88 dB
41.600 MHz	42.600 MHz	1.000 MHz	6.74743 GHz	-28.08 dBm	-31.43 dB	-14.76 dB
42.600 MHz	83.200 MHz	1.000 MHz	6.78437 GHz	-34.85 dBm	-38.20 dB	-10.95 dB
83.200 MHz	124.800 MHz	1.000 MHz	6.82897 GHz	-43.59 dBm	-46.94 dB	-7.18 dB
124.800 MHz	166.400 MHz	1.000 MHz	6.82997 GHz	-43.57 dBm	-46.92 dB	-6.92 dB

Date: 3.AUG.2024 01:42:49

Plot on Channel 6785MHz

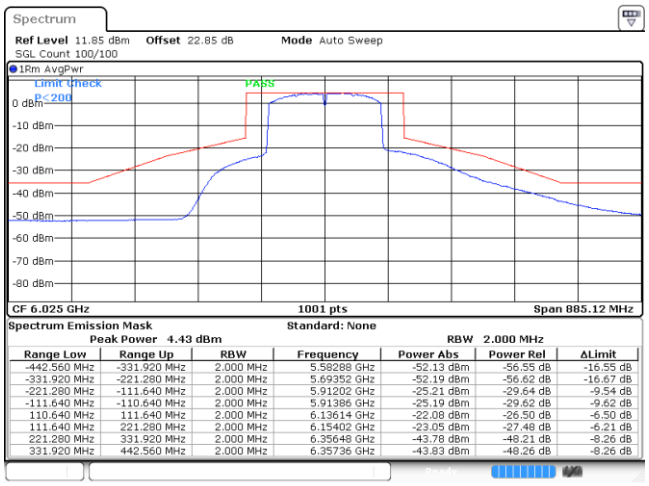


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-165.120 MHz	-123.840 MHz	1.000 MHz	6.66033 GHz	-44.71 dBm	-47.79 dB	-7.79 dB
-123.840 MHz	-82.560 MHz	1.000 MHz	6.66166 GHz	-44.96 dBm	-48.04 dB	-8.18 dB
-82.560 MHz	-42.280 MHz	1.000 MHz	6.74255 GHz	-25.89 dBm	-28.97 dB	-8.94 dB
-42.280 MHz	-41.280 MHz	1.000 MHz	6.74289 GHz	-26.01 dBm	-29.09 dB	-12.42 dB
41.280 MHz	42.280 MHz	1.000 MHz	6.82711 GHz	-26.55 dBm	-29.63 dB	-12.97 dB
42.280 MHz	82.560 MHz	1.000 MHz	6.86376 GHz	-33.28 dBm	-36.36 dB	-9.12 dB
82.560 MHz	123.840 MHz	1.000 MHz	6.90834 GHz	-42.13 dBm	-45.21 dB	-5.35 dB
123.840 MHz	165.120 MHz	1.000 MHz	6.90901 GHz	-42.39 dBm	-45.47 dB	-5.47 dB

Date: 3.AUG.2024 01:37:52

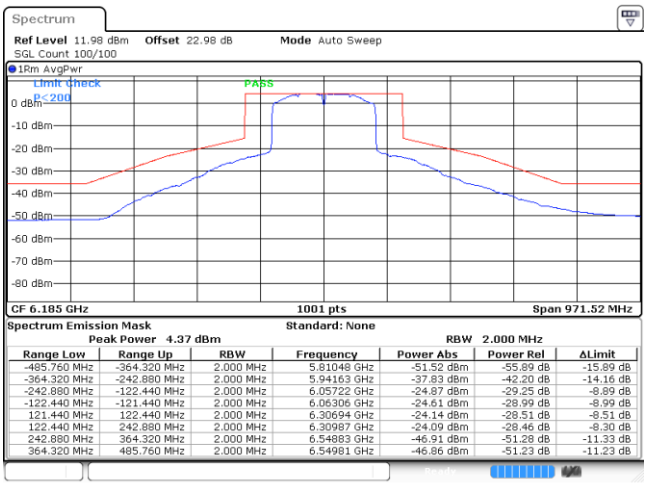
EUT Mode :	802.11ax HE160

Plot on Channel 6025MHz



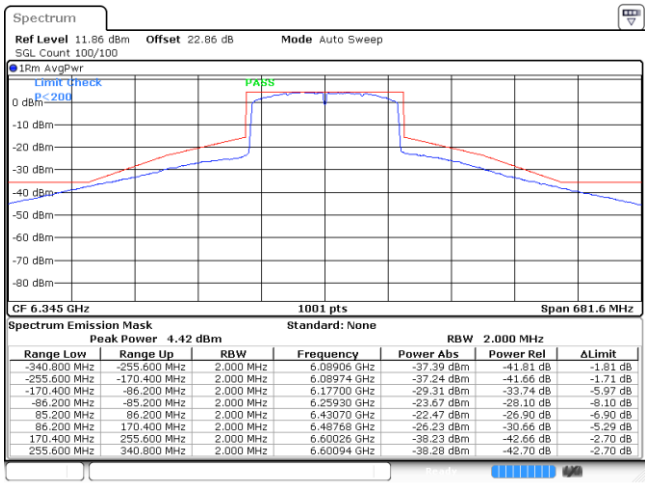
Date: 2.AUG.2024 22:52:20

Plot on Channel 6185MHz



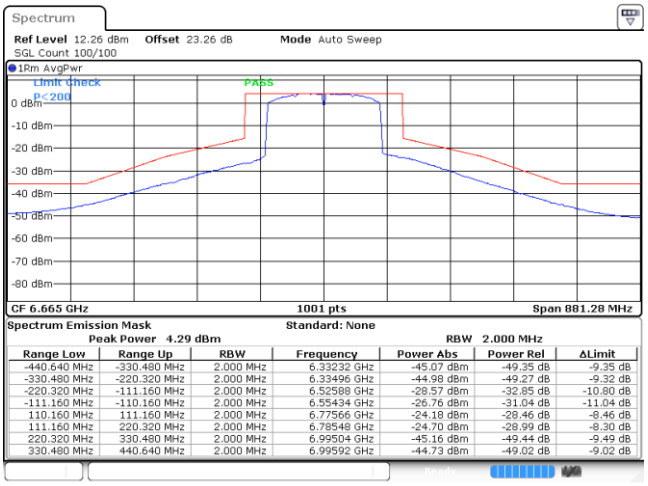
Date: 2.AUG.2024 23:06:51

Plot on Channel 6345MHz



Date: 2.AUG.2024 23:12:42

Plot on Channel 6665MHz

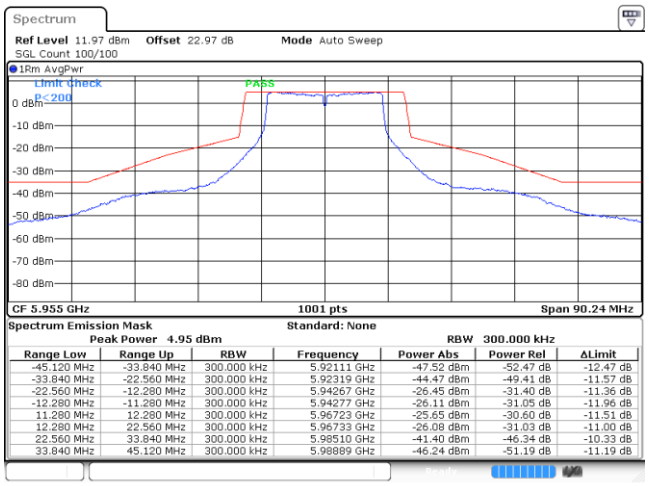


Date: 3.AUG.2024 02:01:01

MIMO <Ant. E+H(H)>

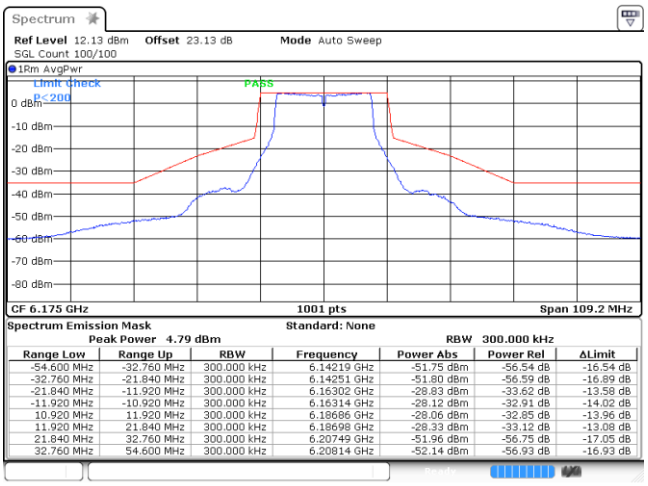
EUT Mode :	802.11a

Plot on Channel 5955MHz



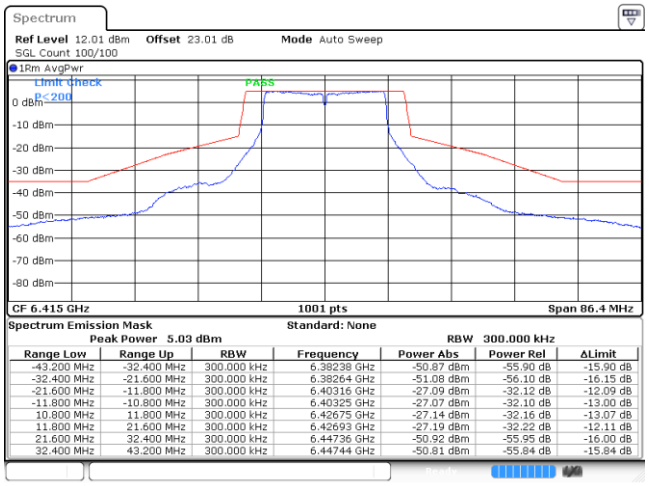
Date: 2.AUG.2024 19:05:06

Plot on Channel 6175MHz



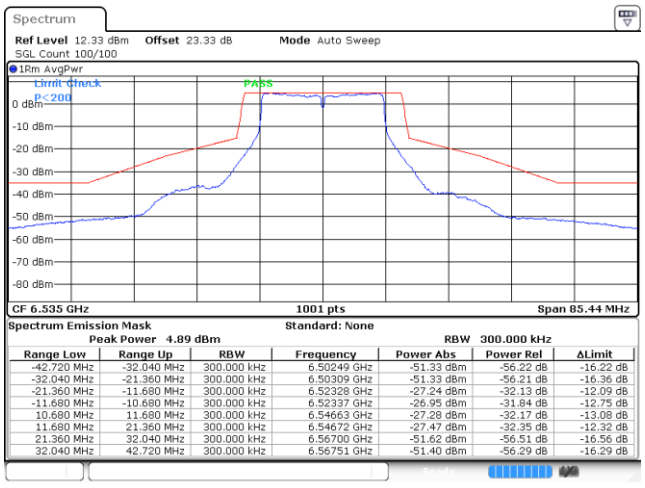
Date: 5.AUG.2024 23:37:33

Plot on Channel 6415MHz



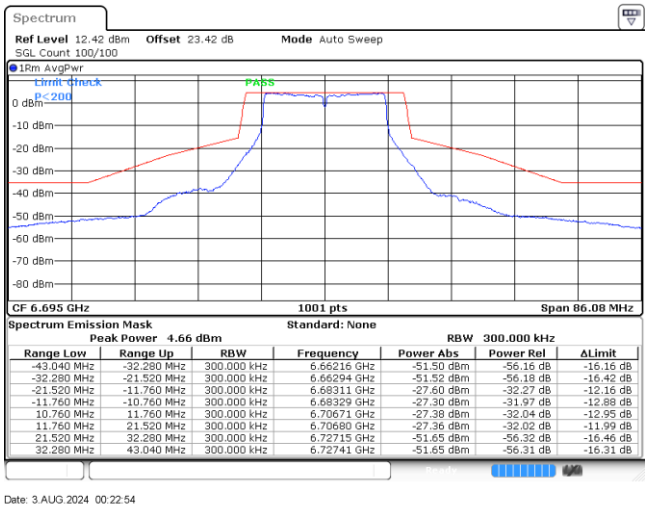
Date: 2.AUG.2024 19:24:59

Plot on Channel 6535MHz



Date: 2.AUG.2024 23:45:52

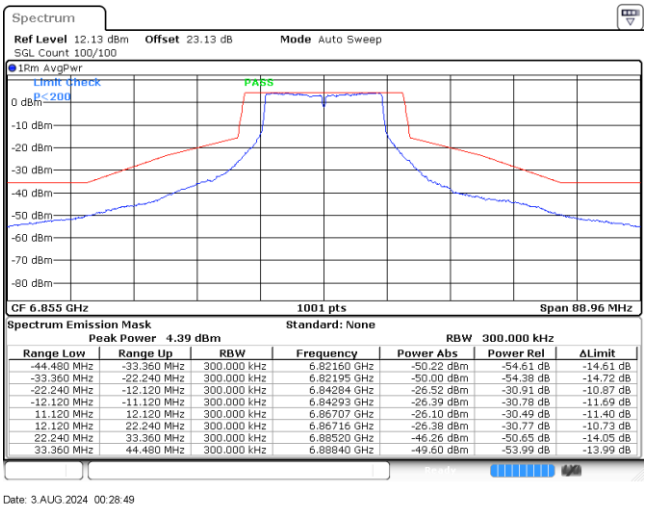
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-43.040 MHz	-32.280 MHz	300.000 kHz	6.66216 GHz	-51.50 dBm	-56.16 dB	-16.16 dB
-32.280 MHz	-21.520 MHz	300.000 kHz	6.66294 GHz	-51.52 dBm	-56.18 dB	-16.42 dB
-21.520 MHz	-11.760 MHz	300.000 kHz	6.68311 GHz	-27.60 dBm	-32.27 dB	-12.16 dB
-11.760 MHz	-10.760 MHz	300.000 kHz	6.68329 GHz	-27.30 dBm	-31.97 dB	-12.88 dB
10.760 MHz	11.760 MHz	300.000 kHz	6.70671 GHz	-27.38 dBm	-32.04 dB	-12.95 dB
11.760 MHz	21.520 MHz	300.000 kHz	6.70680 GHz	-27.36 dBm	-32.02 dB	-11.99 dB
21.520 MHz	32.280 MHz	300.000 kHz	6.72715 GHz	-51.65 dBm	-56.32 dB	-16.46 dB
32.280 MHz	43.040 MHz	300.000 kHz	6.72741 GHz	-51.65 dBm	-56.31 dB	-16.31 dB

Date: 3.AUG.2024 00:22:54

Plot on Channel 6855MHz

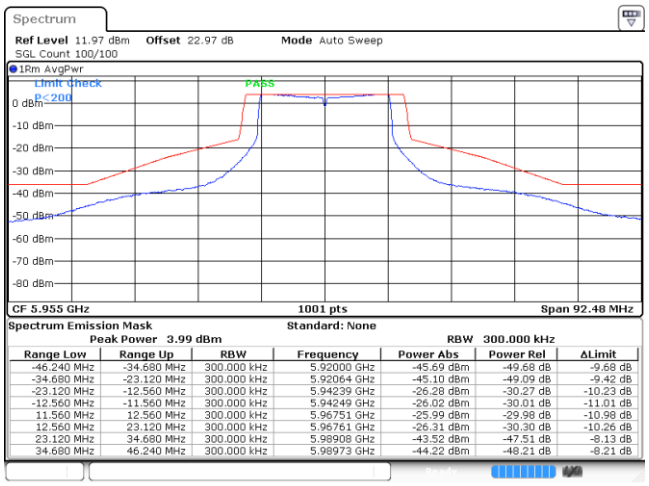


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.480 MHz	-33.360 MHz	300.000 kHz	6.82160 GHz	-50.22 dBm	-54.61 dB	-14.61 dB
-33.360 MHz	-22.240 MHz	300.000 kHz	6.82195 GHz	-50.00 dBm	-54.38 dB	-14.72 dB
-22.240 MHz	-12.120 MHz	300.000 kHz	6.84284 GHz	-26.52 dBm	-30.91 dB	-10.87 dB
-12.120 MHz	-11.120 MHz	300.000 kHz	6.84293 GHz	-26.39 dBm	-30.78 dB	-11.69 dB
11.120 MHz	12.120 MHz	300.000 kHz	6.86707 GHz	-26.10 dBm	-30.49 dB	-11.40 dB
12.120 MHz	22.240 MHz	300.000 kHz	6.86716 GHz	-26.38 dBm	-30.77 dB	-10.73 dB
22.240 MHz	33.360 MHz	300.000 kHz	6.88520 GHz	-46.26 dBm	-50.65 dB	-14.05 dB
33.360 MHz	44.480 MHz	300.000 kHz	6.88840 GHz	-49.60 dBm	-53.99 dB	-13.99 dB

Date: 3.AUG.2024 00:28:49

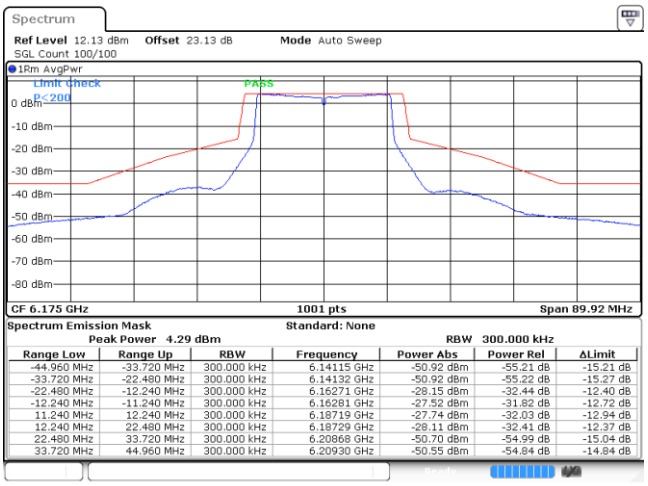
EUT Mode :	802.11ax HE20

Plot on Channel 5955MHz



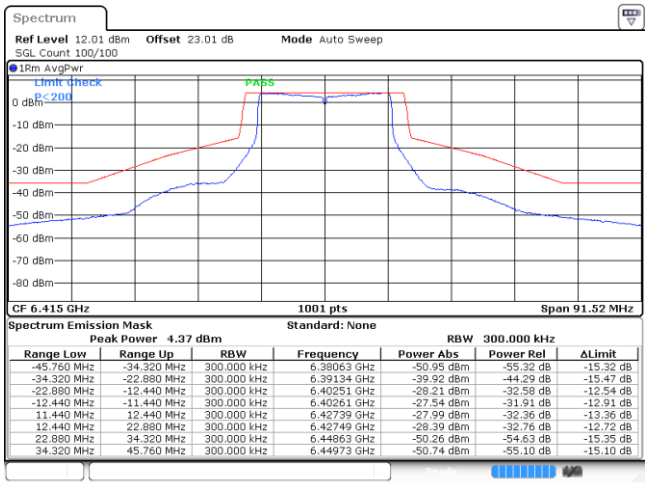
Date: 2.AUG.2024 19:36:09

Plot on Channel 6175MHz



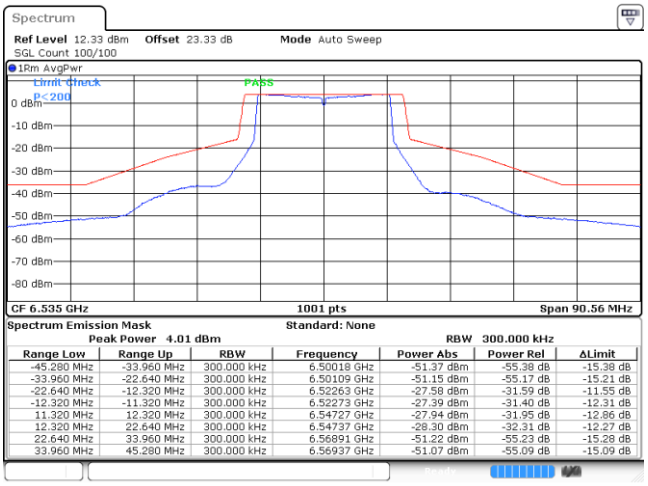
Date: 2.AUG.2024 19:42:56

Plot on Channel 6415MHz



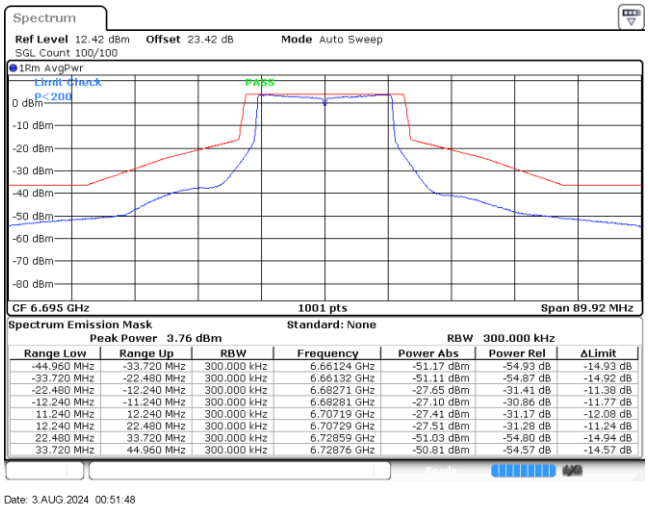
Date: 2.AUG.2024 19:50:15

Plot on Channel 6535MHz



Date: 3.AUG.2024 01:06:37

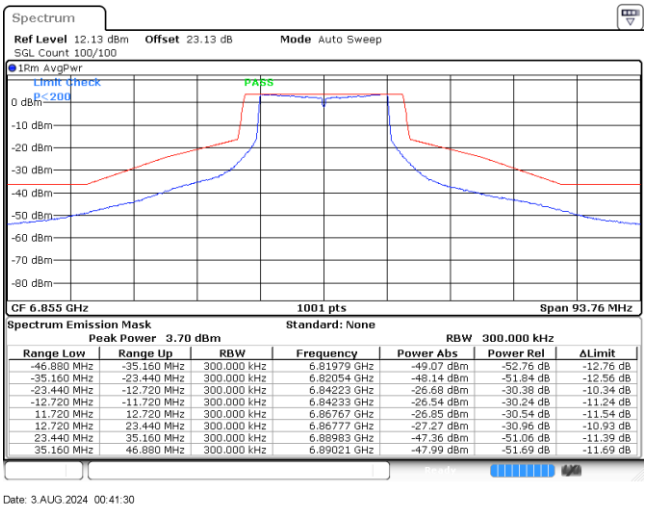
Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.960 MHz	-33.720 MHz	300.000 kHz	6.66124 GHz	-51.17 dBm	-54.93 dB	-14.93 dB
-33.720 MHz	-22.480 MHz	300.000 kHz	6.66132 GHz	-51.11 dBm	-54.87 dB	-14.92 dB
-22.480 MHz	-12.240 MHz	300.000 kHz	6.68271 GHz	-27.65 dBm	-31.41 dB	-11.38 dB
-12.240 MHz	-11.240 MHz	300.000 kHz	6.68281 GHz	-27.10 dBm	-30.86 dB	-11.77 dB
11.240 MHz	12.240 MHz	300.000 kHz	6.70719 GHz	-27.41 dBm	-31.17 dB	-12.08 dB
12.240 MHz	22.480 MHz	300.000 kHz	6.70729 GHz	-27.51 dBm	-31.28 dB	-11.24 dB
22.480 MHz	33.720 MHz	300.000 kHz	6.72859 GHz	-51.03 dBm	-54.80 dB	-14.94 dB
33.720 MHz	44.960 MHz	300.000 kHz	6.72876 GHz	-50.81 dBm	-54.57 dB	-14.57 dB

Date: 3.AUG.2024 00:51:48

Plot on Channel 6855MHz

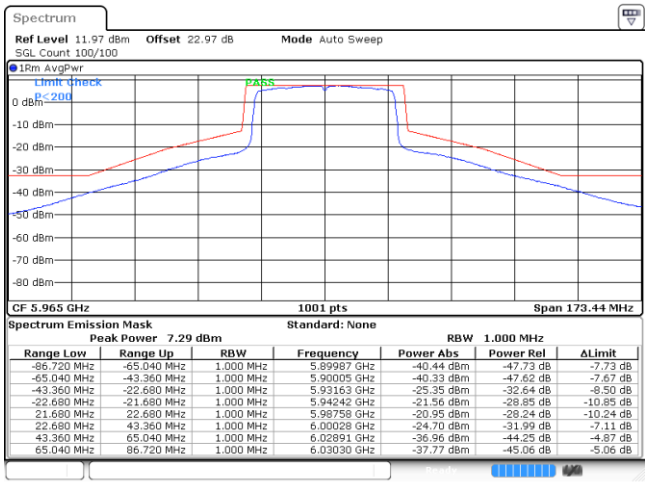


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-46.880 MHz	-35.160 MHz	300.000 kHz	6.81979 GHz	-49.07 dBm	-52.76 dB	-12.76 dB
-35.160 MHz	-23.440 MHz	300.000 kHz	6.82054 GHz	-48.14 dBm	-51.84 dB	-12.56 dB
-23.440 MHz	-12.720 MHz	300.000 kHz	6.84223 GHz	-26.68 dBm	-30.38 dB	-10.34 dB
-12.720 MHz	-11.720 MHz	300.000 kHz	6.84233 GHz	-26.54 dBm	-30.24 dB	-11.24 dB
11.720 MHz	12.720 MHz	300.000 kHz	6.86767 GHz	-26.85 dBm	-30.54 dB	-11.54 dB
12.720 MHz	23.440 MHz	300.000 kHz	6.86777 GHz	-27.27 dBm	-30.96 dB	-10.93 dB
23.440 MHz	35.160 MHz	300.000 kHz	6.88983 GHz	-47.36 dBm	-51.06 dB	-11.39 dB
35.160 MHz	46.880 MHz	300.000 kHz	6.89021 GHz	-47.99 dBm	-51.69 dB	-11.69 dB

Date: 3.AUG.2024 00:41:30

EUT Mode :	802.11ax HE40

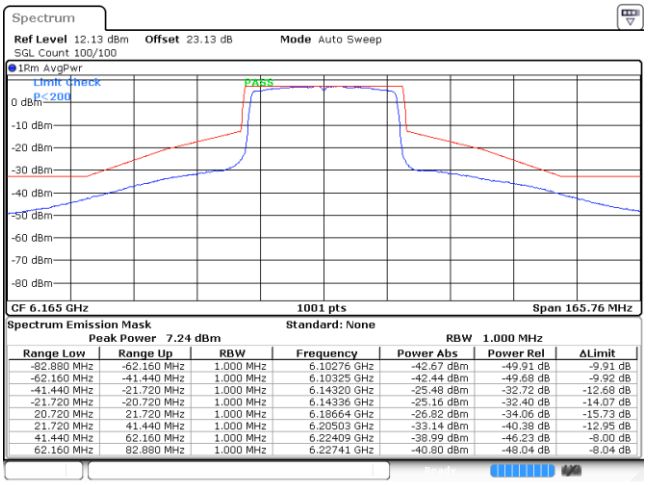
Plot on Channel 5965MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-86.720 MHz	-65.040 MHz	1.000 MHz	5.89987 GHz	-40.44 dBm	-47.73 dB	-7.73 dB
-65.040 MHz	-43.360 MHz	1.000 MHz	5.90005 GHz	-40.33 dBm	-47.62 dB	-7.67 dB
-43.360 MHz	-22.680 MHz	1.000 MHz	5.93163 GHz	-25.35 dBm	-32.64 dB	-8.50 dB
-22.680 MHz	-21.680 MHz	1.000 MHz	5.94242 GHz	-21.56 dBm	-28.85 dB	-10.85 dB
21.680 MHz	22.680 MHz	1.000 MHz	5.98758 GHz	-20.95 dBm	-28.24 dB	-10.24 dB
22.680 MHz	43.360 MHz	1.000 MHz	6.00028 GHz	-24.70 dBm	-31.99 dB	-7.11 dB
43.360 MHz	65.040 MHz	1.000 MHz	6.02891 GHz	-36.96 dBm	-44.25 dB	-4.87 dB
65.040 MHz	86.720 MHz	1.000 MHz	6.03030 GHz	-37.77 dBm	-45.06 dB	-5.06 dB

Date: 2.AUG.2024 19:57:51

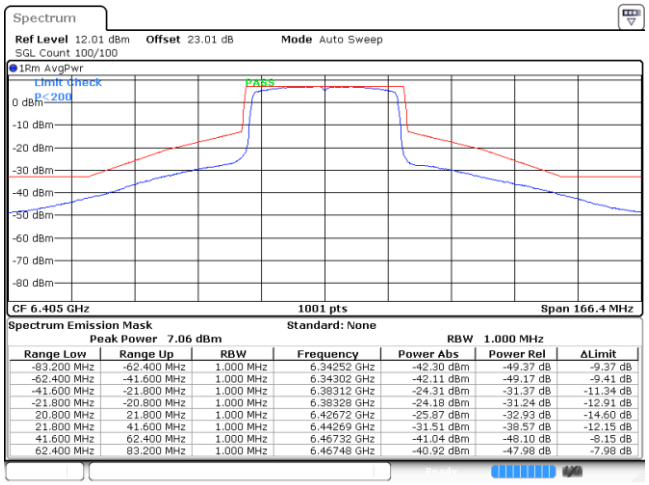
Plot on Channel 6165MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-82.880 MHz	-62.160 MHz	1.000 MHz	6.10276 GHz	-42.67 dBm	-49.91 dB	-9.91 dB
-62.160 MHz	-41.440 MHz	1.000 MHz	6.10325 GHz	-42.44 dBm	-49.68 dB	-9.92 dB
-41.440 MHz	-21.720 MHz	1.000 MHz	6.14320 GHz	-25.48 dBm	-32.72 dB	-12.68 dB
-21.720 MHz	-20.720 MHz	1.000 MHz	6.14336 GHz	-25.16 dBm	-32.40 dB	-14.07 dB
20.720 MHz	21.720 MHz	1.000 MHz	6.18664 GHz	-26.82 dBm	-34.06 dB	-15.73 dB
21.720 MHz	41.440 MHz	1.000 MHz	6.20503 GHz	-33.14 dBm	-40.38 dB	-12.95 dB
41.440 MHz	62.160 MHz	1.000 MHz	6.22409 GHz	-38.99 dBm	-46.23 dB	-8.00 dB
62.160 MHz	82.880 MHz	1.000 MHz	6.22741 GHz	-40.80 dBm	-48.04 dB	-8.04 dB

Date: 2.AUG.2024 20:04:06

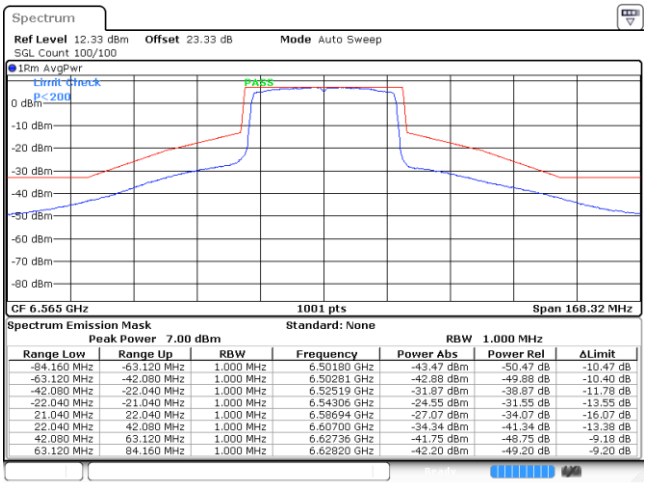
Plot on Channel 6405MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-83.200 MHz	-62.400 MHz	1.000 MHz	6.34252 GHz	-42.30 dBm	-49.37 dB	-9.37 dB
-62.400 MHz	-41.600 MHz	1.000 MHz	6.34302 GHz	-42.11 dBm	-49.17 dB	-9.41 dB
-41.600 MHz	-21.800 MHz	1.000 MHz	6.38312 GHz	-24.31 dBm	-31.37 dB	-11.34 dB
-21.800 MHz	-20.800 MHz	1.000 MHz	6.38328 GHz	-24.18 dBm	-31.24 dB	-12.91 dB
20.800 MHz	21.800 MHz	1.000 MHz	6.42672 GHz	-25.87 dBm	-32.93 dB	-14.60 dB
21.800 MHz	41.600 MHz	1.000 MHz	6.44269 GHz	-31.51 dBm	-38.57 dB	-12.15 dB
41.600 MHz	62.400 MHz	1.000 MHz	6.46732 GHz	-41.04 dBm	-48.10 dB	-8.15 dB
62.400 MHz	83.200 MHz	1.000 MHz	6.46748 GHz	-40.92 dBm	-47.98 dB	-7.98 dB

Date: 2.AUG.2024 20:34:55

Plot on Channel 6565MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-84.160 MHz	-63.120 MHz	1.000 MHz	6.50180 GHz	-43.47 dBm	-50.47 dB	-10.47 dB
-63.120 MHz	-42.080 MHz	1.000 MHz	6.50281 GHz	-42.88 dBm	-49.88 dB	-10.40 dB
-42.080 MHz	-22.040 MHz	1.000 MHz	6.52519 GHz	-31.87 dBm	-38.87 dB	-11.78 dB
-22.040 MHz	-21.040 MHz	1.000 MHz	6.54306 GHz	-24.55 dBm	-31.55 dB	-13.55 dB
21.040 MHz	22.040 MHz	1.000 MHz	6.58694 GHz	-27.07 dBm	-34.07 dB	-16.07 dB
22.040 MHz	42.080 MHz	1.000 MHz	6.60700 GHz	-34.34 dBm	-41.34 dB	-13.38 dB
42.080 MHz	63.120 MHz	1.000 MHz	6.62736 GHz	-41.75 dBm	-48.75 dB	-9.18 dB
63.120 MHz	84.160 MHz	1.000 MHz	6.62820 GHz	-42.20 dBm	-49.20 dB	-9.20 dB

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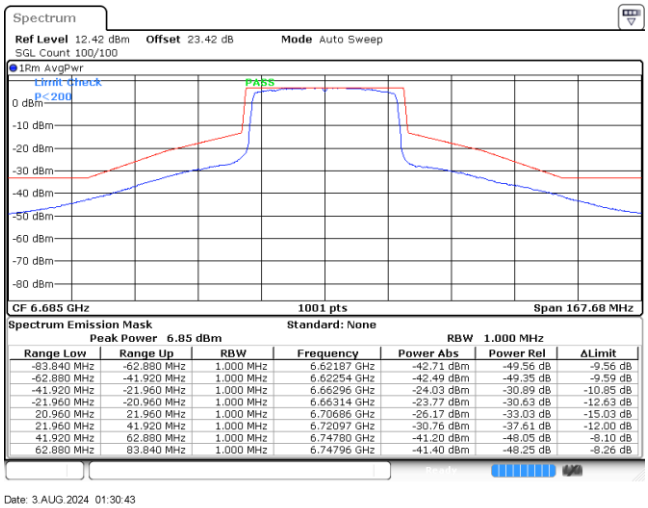
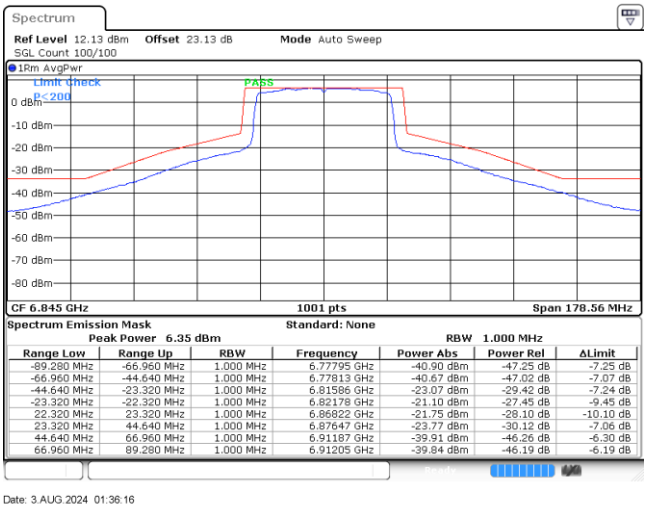
Plot on Channel 6685MHz

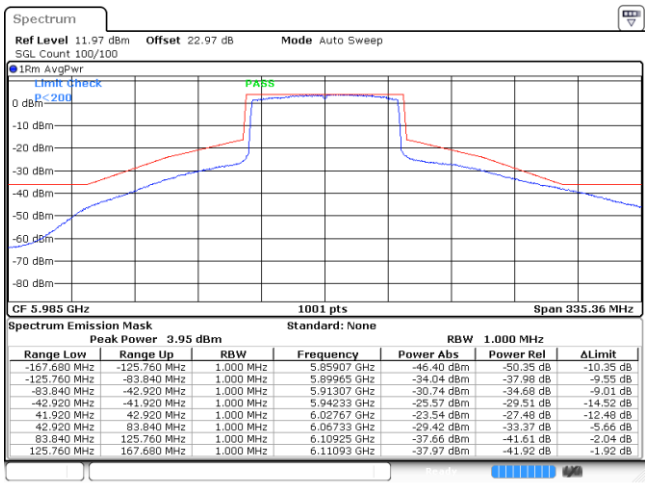


Plot on Channel 6845MHz



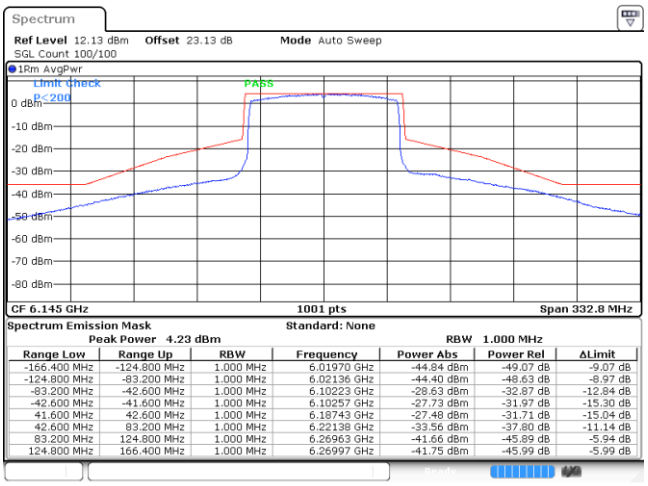
EUT Mode :	802.11ax HE80

Plot on Channel 5985MHz



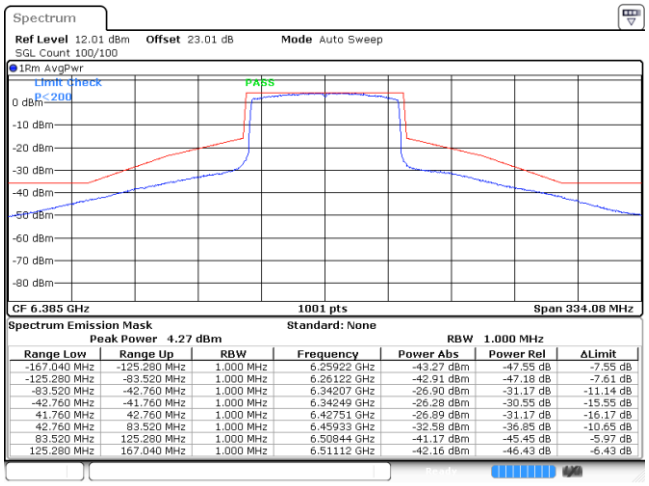
Date: 2.AUG.2024 20:43:25

Plot on Channel 6145MHz



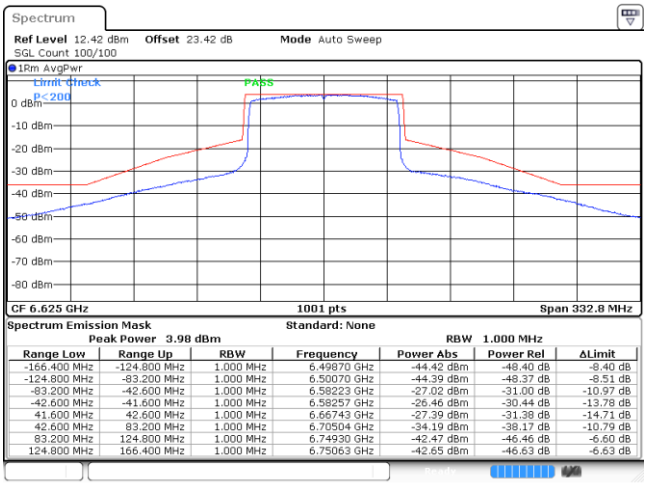
Date: 2.AUG.2024 20:52:08

Plot on Channel 6385MHz



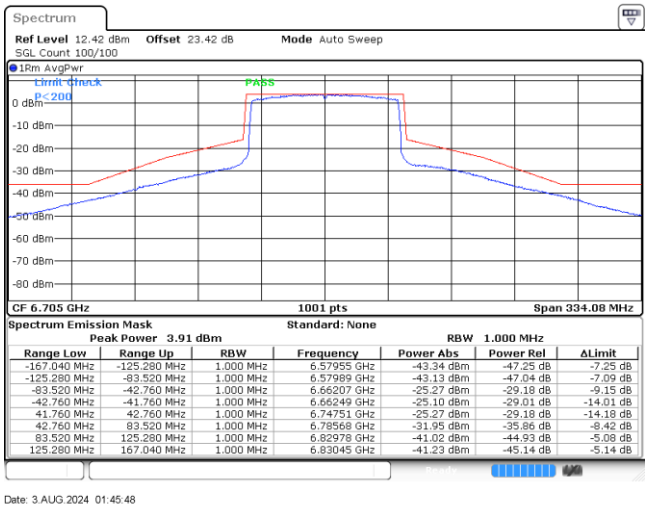
Date: 2.AUG.2024 21:12:21

Plot on Channel 6625MHz



Date: 3.AUG.2024 01:58:57

Plot on Channel 6705MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-167.040 MHz	-125.280 MHz	1.000 MHz	6.57955 GHz	-43.34 dBm	-47.25 dB	-7.25 dB
-125.280 MHz	-83.520 MHz	1.000 MHz	6.57989 GHz	-43.13 dBm	-47.04 dB	-7.09 dB
-83.520 MHz	-42.760 MHz	1.000 MHz	6.66207 GHz	-25.27 dBm	-29.18 dB	-9.15 dB
-42.760 MHz	-41.760 MHz	1.000 MHz	6.66249 GHz	-25.10 dBm	-29.01 dB	-14.01 dB
41.760 MHz	42.760 MHz	1.000 MHz	6.74751 GHz	-25.27 dBm	-29.18 dB	-14.18 dB
42.760 MHz	83.520 MHz	1.000 MHz	6.78568 GHz	-31.95 dBm	-35.86 dB	-8.42 dB
83.520 MHz	125.280 MHz	1.000 MHz	6.82978 GHz	-41.02 dBm	-44.93 dB	-5.08 dB
125.280 MHz	167.040 MHz	1.000 MHz	6.83045 GHz	-41.23 dBm	-45.14 dB	-5.14 dB

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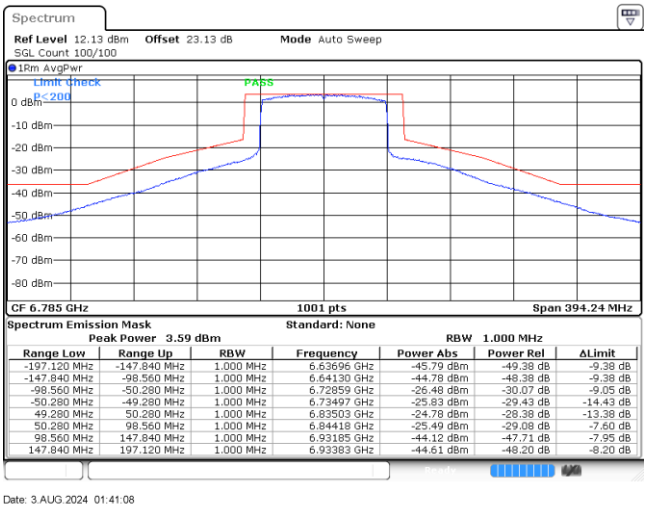
Plot on Channel 6785MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-197.120 MHz	-147.840 MHz	1.000 MHz	6.63696 GHz	-45.79 dBm	-49.38 dB	-9.38 dB
-147.840 MHz	-98.560 MHz	1.000 MHz	6.64130 GHz	-44.78 dBm	-48.38 dB	-9.38 dB
-98.560 MHz	-50.280 MHz	1.000 MHz	6.72859 GHz	-26.48 dBm	-30.07 dB	-9.05 dB
-50.280 MHz	-49.280 MHz	1.000 MHz	6.73497 GHz	-25.83 dBm	-29.43 dB	-14.43 dB
49.280 MHz	50.280 MHz	1.000 MHz	6.83503 GHz	-24.78 dBm	-28.38 dB	-13.38 dB
50.280 MHz	98.560 MHz	1.000 MHz	6.84418 GHz	-25.49 dBm	-29.08 dB	-7.60 dB
98.560 MHz	147.840 MHz	1.000 MHz	6.93185 GHz	-44.12 dBm	-47.71 dB	-7.95 dB
147.840 MHz	197.120 MHz	1.000 MHz	6.93383 GHz	-44.61 dBm	-48.20 dB	-8.20 dB

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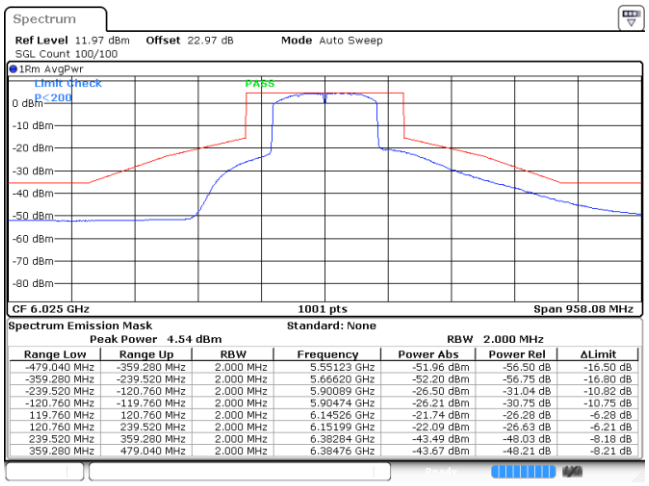
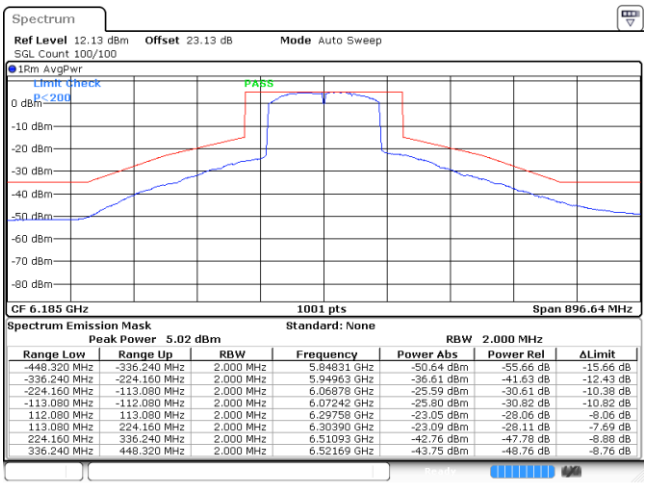
EUT Mode :	802.11ax HE160

Plot on Channel 6025MHz



Date: 2.AUG.2024 22:57:55

Plot on Channel 6185MHz



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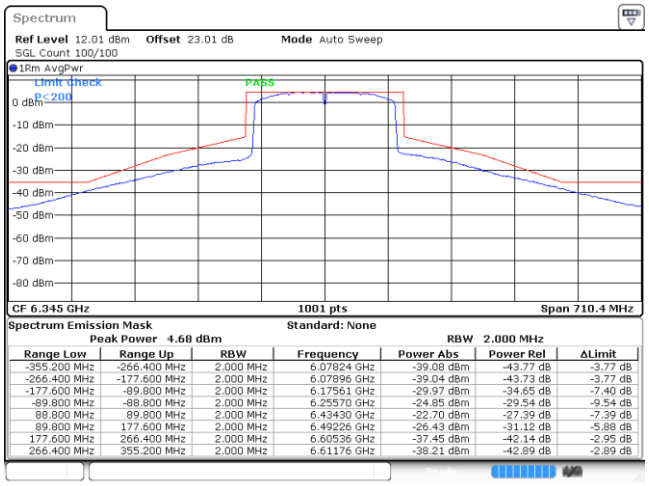
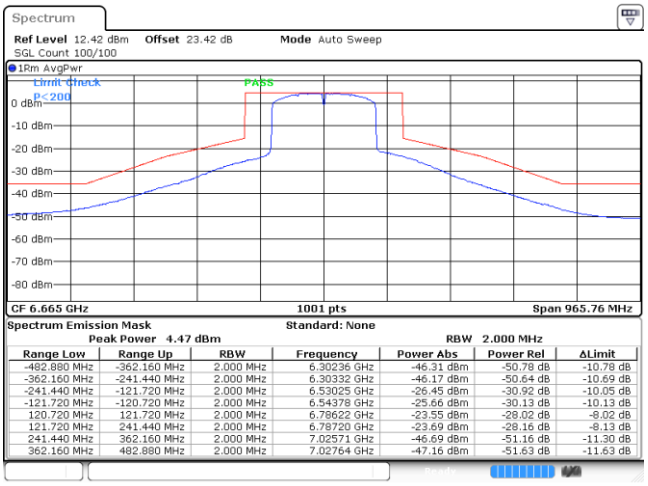
Plot on Channel 6345MHz



Date: 2.AUG.2024 23:36:43

Plot on Channel 6665MHz



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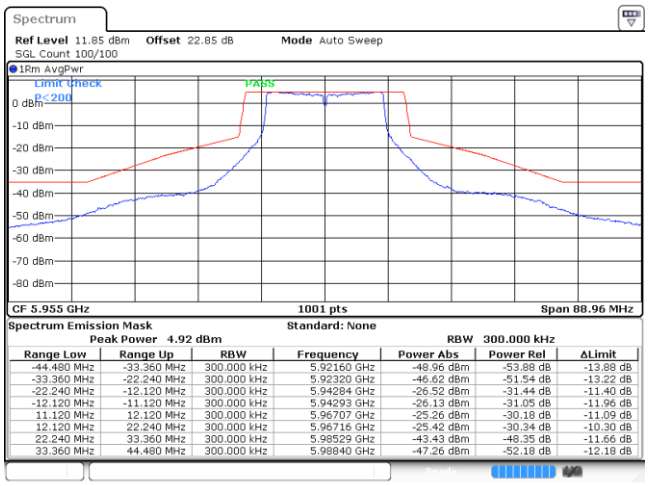
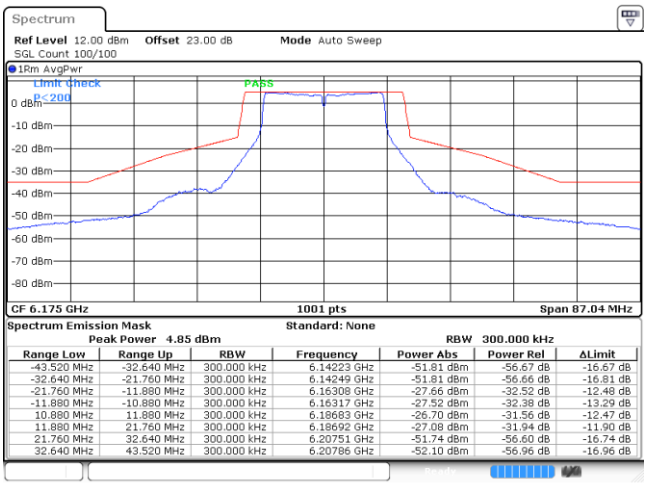
MIMO <Ant. F+G(F)>

EUT Mode :	802.11a

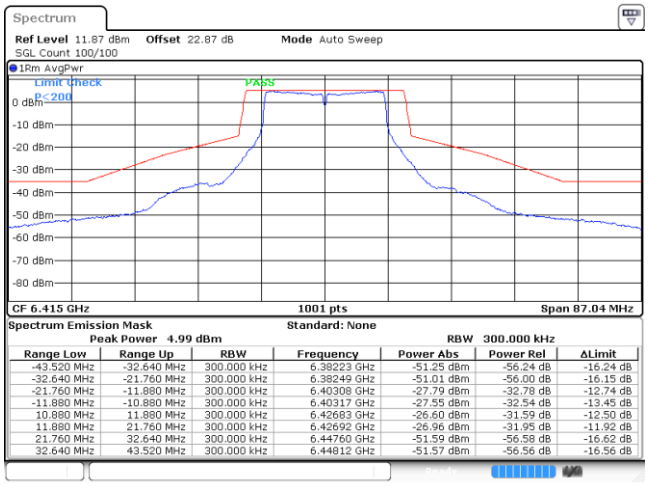
Plot on Channel 5955MHz



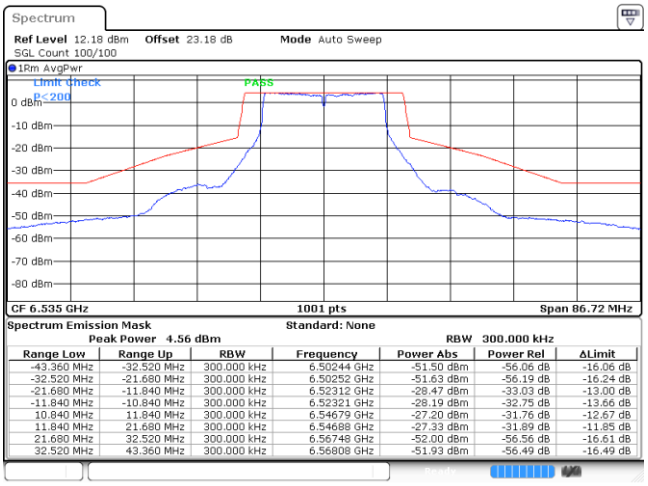
Plot on Channel 6175MHz



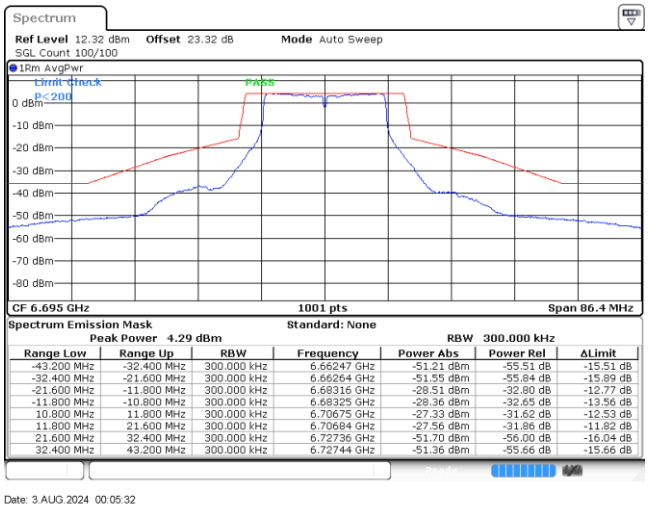
Plot on Channel 6415MHz



Plot on Channel 6535MHz



Plot on Channel 6695MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-43.200 MHz	-32.400 MHz	300.000 kHz	6.66247 GHz	-51.21 dBm	-55.51 dB	-15.51 dB
-32.400 MHz	-21.600 MHz	300.000 kHz	6.66264 GHz	-51.55 dBm	-55.84 dB	-15.89 dB
-21.600 MHz	-11.800 MHz	300.000 kHz	6.68316 GHz	-28.51 dBm	-32.80 dB	-12.77 dB
-11.800 MHz	-10.800 MHz	300.000 kHz	6.68325 GHz	-28.36 dBm	-32.65 dB	-13.56 dB
10.800 MHz	11.800 MHz	300.000 kHz	6.70675 GHz	-27.33 dBm	-31.62 dB	-12.53 dB
11.800 MHz	21.600 MHz	300.000 kHz	6.70684 GHz	-27.56 dBm	-31.86 dB	-11.82 dB
21.600 MHz	32.400 MHz	300.000 kHz	6.72736 GHz	-51.70 dBm	-56.00 dB	-16.04 dB
32.400 MHz	43.200 MHz	300.000 kHz	6.72744 GHz	-51.36 dBm	-55.66 dB	-15.66 dB

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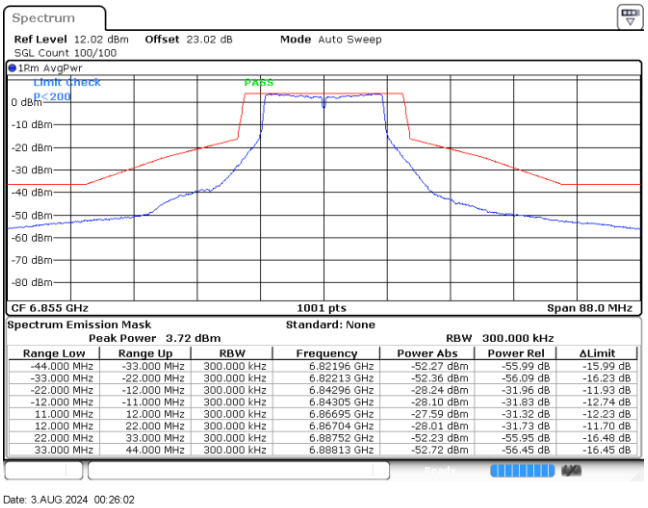
Plot on Channel 6855MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-44.000 MHz	-33.000 MHz	300.000 kHz	6.82196 GHz	-52.27 dBm	-55.99 dB	-15.99 dB
-33.000 MHz	-22.000 MHz	300.000 kHz	6.82213 GHz	-52.36 dBm	-56.09 dB	-16.23 dB
-22.000 MHz	-12.000 MHz	300.000 kHz	6.84296 GHz	-28.24 dBm	-31.96 dB	-11.93 dB
-12.000 MHz	-11.000 MHz	300.000 kHz	6.84305 GHz	-28.10 dBm	-31.83 dB	-12.74 dB
11.000 MHz	12.000 MHz	300.000 kHz	6.86695 GHz	-27.59 dBm	-31.32 dB	-12.23 dB
12.000 MHz	22.000 MHz	300.000 kHz	6.86704 GHz	-28.01 dBm	-31.73 dB	-11.70 dB
22.000 MHz	33.000 MHz	300.000 kHz	6.88752 GHz	-52.23 dBm	-55.95 dB	-16.48 dB
33.000 MHz	44.000 MHz	300.000 kHz	6.88813 GHz	-52.72 dBm	-56.45 dB	-16.45 dB

Date: 3.AUG.2024 00:26:02