FCC RADIO TEST REPORT

FCC ID	**:**	**A4RGGH2X**
Equipment	**:**	**Phone**
Model Name	**:**	**GGH2X, GC15S**
Applicant	**:**	**Google LLC 1600 Amphitheatre Parkway, Mountain View, CA 94043 USA**
Standard	**:**	**FCC Part 15 Subpart E §15.407**

The product was received on Feb. 05, 2024 and testing was performed from Feb. 14, 2024 to Jun. 06, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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History of this test report

Report No.	Version	Description	Issue Date
FR3D2001H	01	Initial issue of report	May 10, 2024
FR3D2001H	02	Revise antenna gain, section 2, section 3.4.5, Appendix C and Appendix D This report is an updated version, replacing the report issued on May 10, 2024.	May 27, 2024
FR3D2001H	03	Revise section 3.1.5, section 3.4.5 and Appendix A This report is an updated version, replacing the report issued on May 27, 2024.	Jun. 06, 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	Reporting only	-
3.2	15.407(a)(7)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(7)	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	Dual Client Standard Client
-	15.407 KDB 987594 D02 Section II. K.	Dual Client Test	Not Required	Dual Client EIRP < 24dBm
3.6	15.407(b)	Unwanted Emissions	Pass	1.69 dB under the limit at 5908.52 MHz
3.7	15.207	AC Conducted Emission	Pass	5.48 dB under the limit at 0.18 MHz
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Note: Not required means after assessing, test items are not necessary to carry out.

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:

1. 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.
2. The GGH2X and GC15S are 100% identical in Hardware / Software to each other, and only have different model names for marketing segmentation. The test sample are all model GGH2X.

Reviewed by: William Chen

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, UWB, NFC, WPC Rx, NTN and GNSS **Antenna Type** WLAN: **<Ant. 3>:** IFA Antenna **<Ant. 4>:** ILA Antenna

EUT Information List	
S/N	**Performed Test Item**
41251FDKD0009F	RF Conducted Measurement
41251FDKD0007Y	Radiated Spurious Emission
41251FDKD0007K	Conducted Emission

Antenna information (Open Mode)		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 3: -6.60 Ant. 4: -3.40
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 3: -9.30 Ant. 4: -2.90

Antenna information (Close Mode)		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 3: -7.60 Ant. 4: -3.40
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 3: -9.60 Ant. 4: -5.20

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

1.1.1 Antenna Directional Gain

<For CDD Mode>

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

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

For power measurements on IEEE 802.11 devices,

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

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

For PSD measurements, the directional gain calculation.

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

where

Each antenna is driven by no more than one spatial stream;
N_{SS} = the number of independent spatial streams of data;
N_{ANT} = the total number of antennas
$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

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

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

The directional gain “DG” is calculated as following table.

	Ant 3 (dBi)	Ant 4 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	-6.60	-3.40	-3.40	-1.84
6525 MHz ~ 6875 MHz	-9.30	-2.90	-2.90	-2.51

Calculation example:

If a device has two antenna, G_{ANT4}= -6.60dBi; G_{ANT3}= -3.40dBi

Directional gain of power measurement = max(-6.60, -3.40) + 0 = -3.40 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-6.60 dBi / 20) + 10^ (-3.40 dBi / 20)] ^ 2 } / 2 }

= -1.84 dBi

Note: The antenna gain is from both open mode and close mode with highest number.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH16-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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 80M	Channel	-		
	Freq. (MHz)	-		

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			-		
BW 160M	Channel	-					
	Freq. (MHz)	-					

2.2 Test Mode

This device supports WiFi 802.11be 20MHz bandwidth for 2.4GHz and 160MHz bandwidth for both 5GHz and 6GHz.

This device supports 26/52/106/242/484/996 single tone RU modes for 802.11ax/be modes and the 242/484/996-tone RU modes are covered by 20/40/80MHz channels.

This device supports MRU 52T+26T/106T+26T (small RU) and punctured modes (large RU) for 802.11be mode.

The PSD of partial RU/MRU modes are reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022 for WiFi 7 device.

The 802.11ax/be modes are investigated among full RU, single RU and MRU modes for emission spot check and the 11ax modes are covered by 11be modes.

The PSD and power of partial RU and MRU are less than full RU configurations so the full RU is chosen as main test configuration.

The power for 802.11ax mode is smaller than 802.11be mode, so all other conducted and radiated test is covered by 802.11be mode.

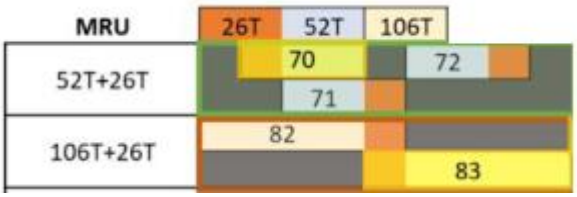
The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Specification	MCS index /Data Rate
802.11a	6 Mbps
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11ax HE80 (Covered by EHT80)	MCS0
802.11ax HE160 (Covered by EHT160)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0

Index of MRU and puncture mode mapping

Small MRU



Large MRU

484+242-tone MRU			
2	1	4	3
80MHz puncture 20			
8	4	2	1

(High Frequency) ---------- (Low Frequency)

484+242-tone MRU							
2	1	4	3	6	5	8	7
160MHz puncture 20							
128	64	32	16	8	4	2	1

(High Frequency) ---------- (Low Frequency)

996+484-tone MRU			
2	1	4	3
160MHz puncture 40			
192	48	12	3

(High Frequency) ---------- (Low Frequency)

Note: The RF waveform is identical for large MRU and puncture modes.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (6GHz) Link + USB Cable 1 (Charging from AC Adapter)

Remark:
1. For Radiated Test Cases, the tests were performed with USB Cable 1.
2. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adaptor mode is the worst case for official test.

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11a	802.11a
L	Low	001	117
M	Middle	049	149
H	High	093	181

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11be EHT20	802.11be EHT20
L	Low	001	117
M	Middle	049	149
H	High	093	181

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11be EHT40	802.11be EHT40
L	Low	003	123
M	Middle	051	147
H	High	091	179

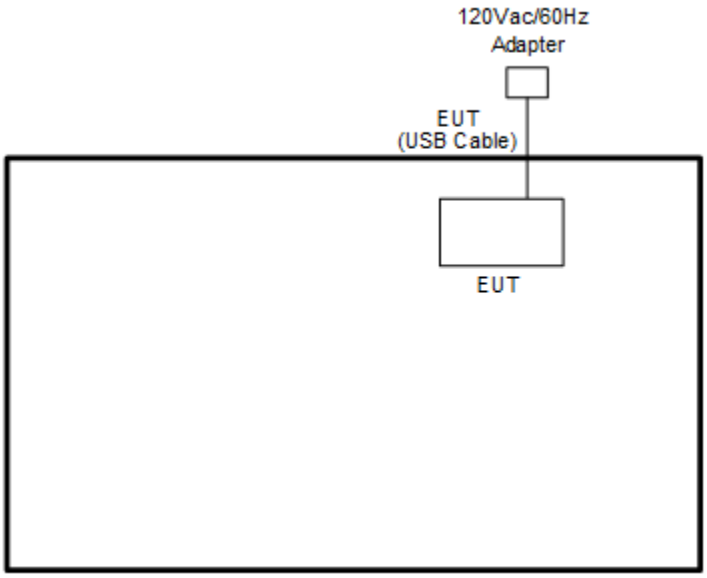
Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11be EHT80	802.11be EHT80
L	Low	007	135
M	Middle	055	151
H	High	087	167

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11be EHT160	802.11be EHT160
L	Low	015	143
M	Middle	047	
H	High	079	

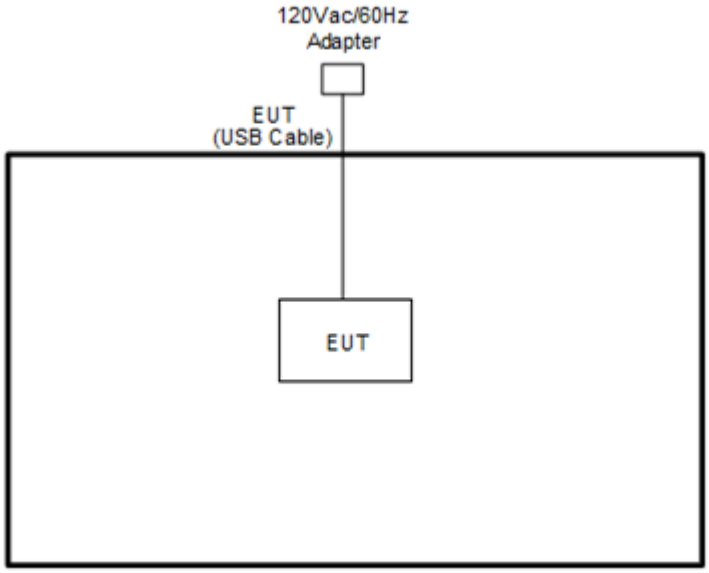
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	Chicony	G9BR1	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “WLAN_DUT_Control_GUI_11-29-23” 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.

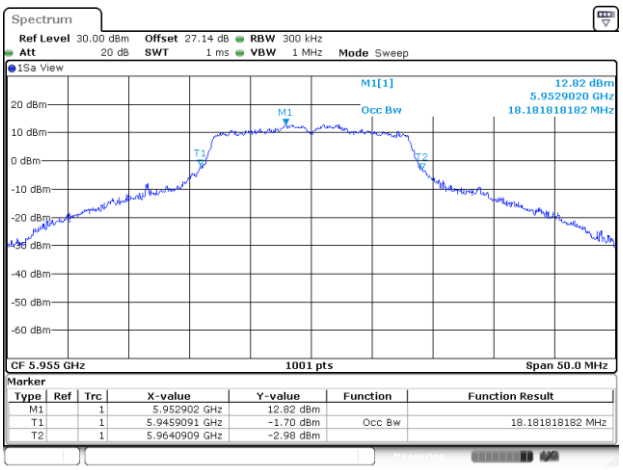
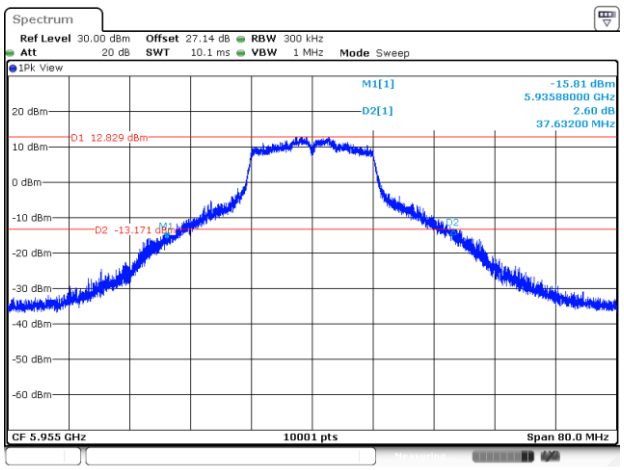
3.1.4 Test Setup

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

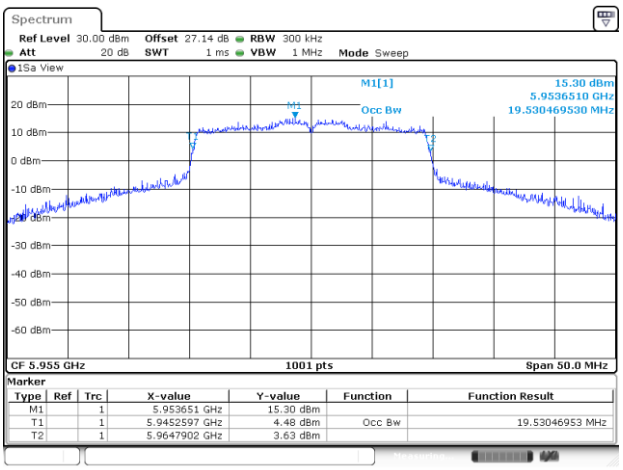
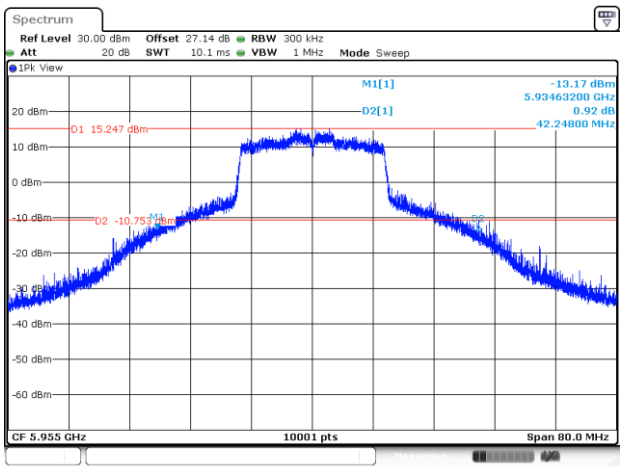
MIMO <Ant. 3+4>

<802.11a>

99% Occupied Bandwidth	26dB Bandwidth
	

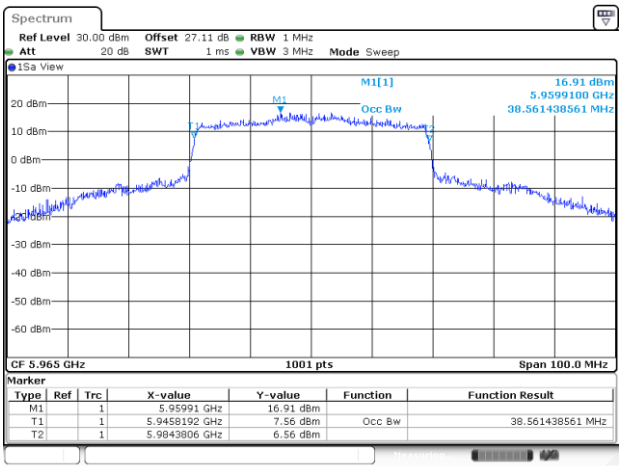
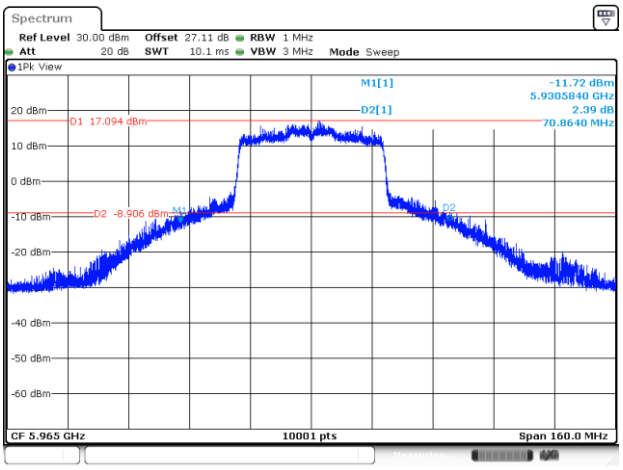
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT20>

99% Occupied Bandwidth	26dB Bandwidth
	

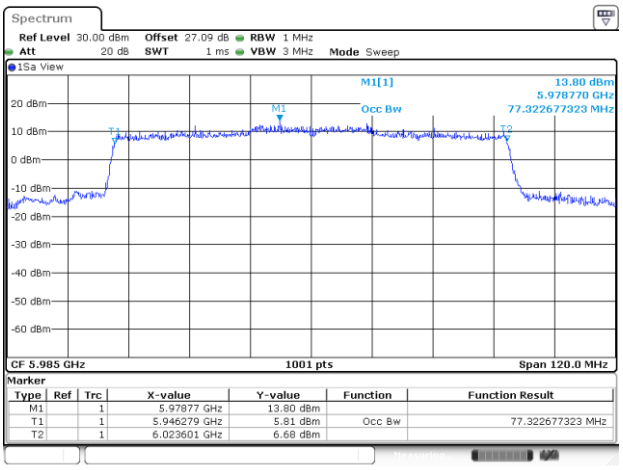
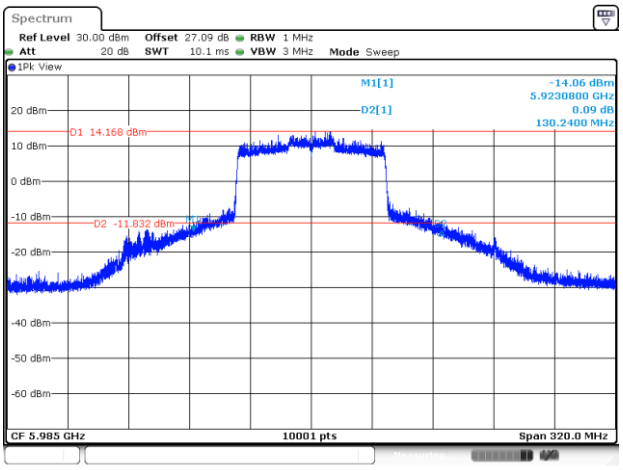
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT40>

99% Occupied Bandwidth	26dB Bandwidth
	

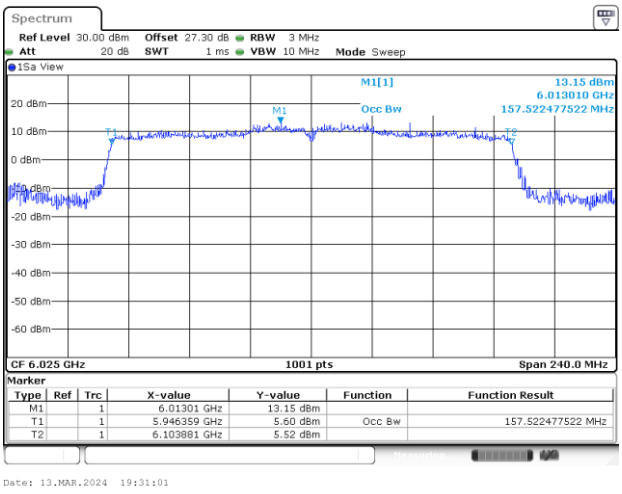
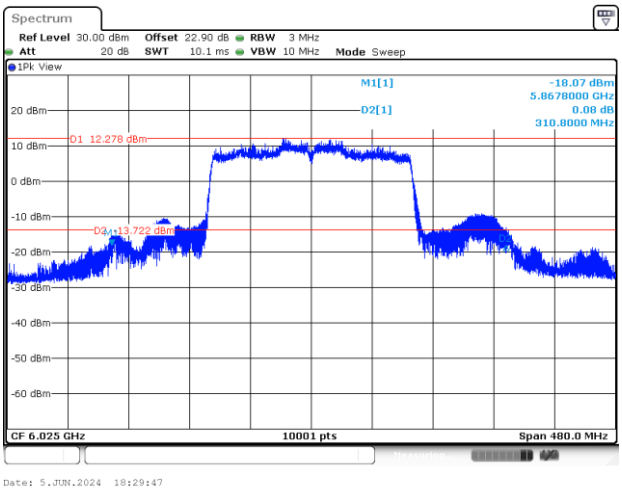
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11be EHT80>

99% Occupied Bandwidth	26dB Bandwidth
	

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

<802.11be EHT160>

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)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access
point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

3.2.2 Measuring Instruments

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

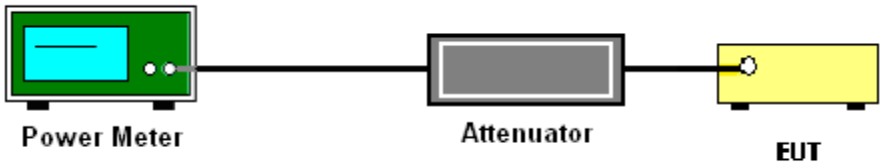
3.2.3 Test Procedures

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)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 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).

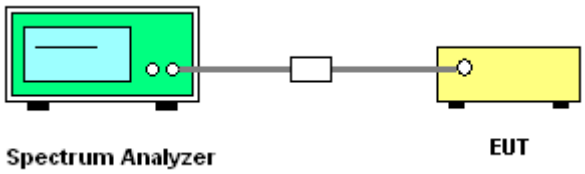
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), 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.

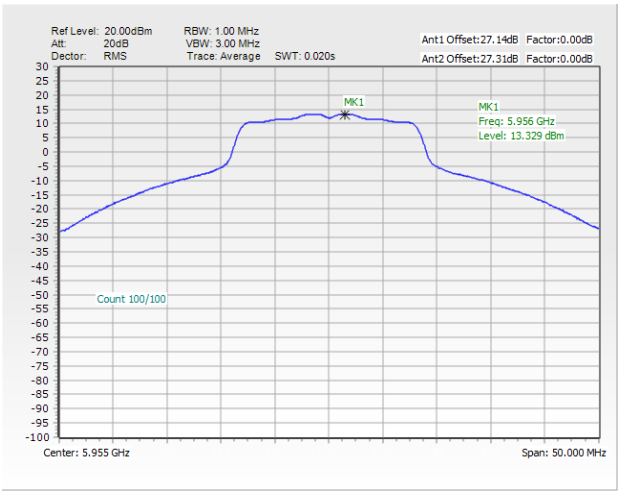
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

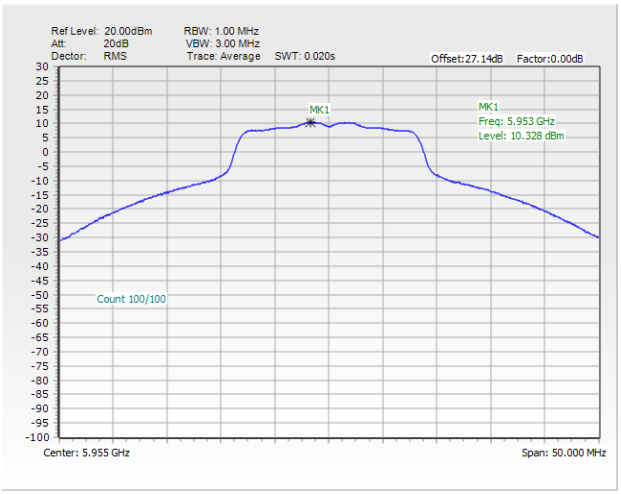
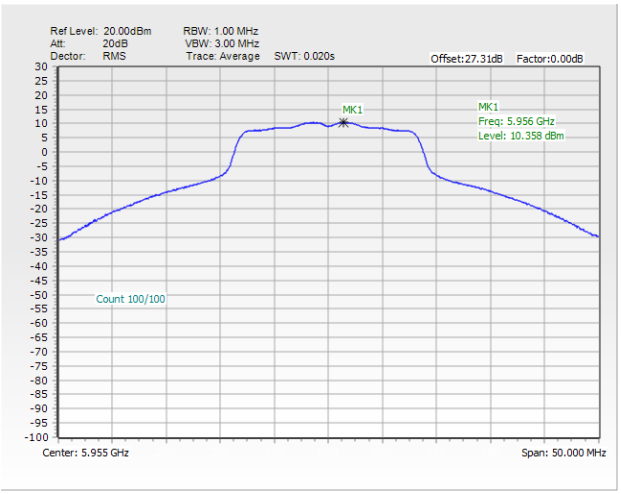
Please refer to Appendix A.

<802.11a>

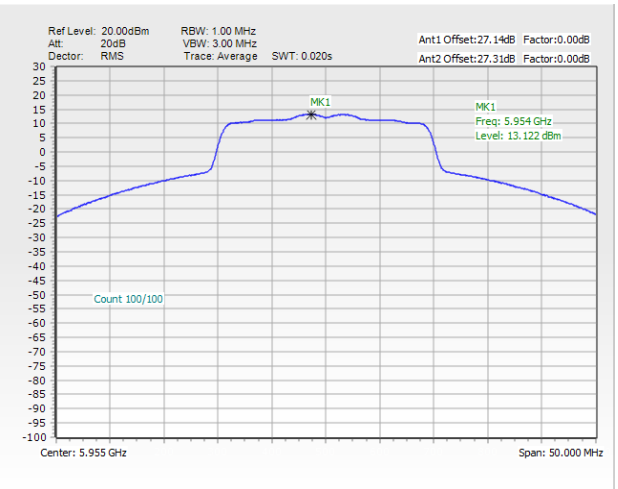
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

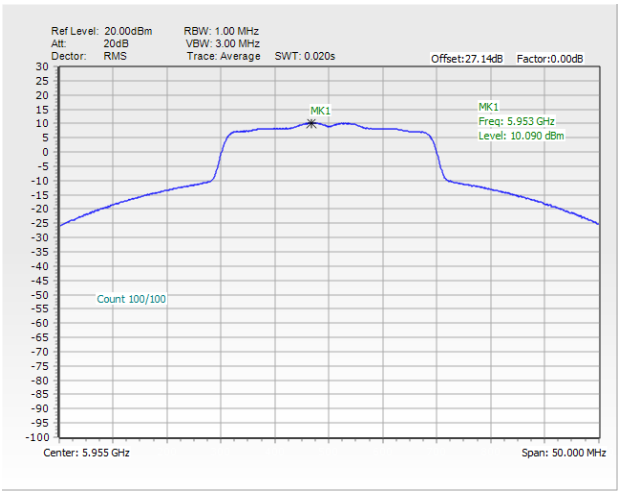
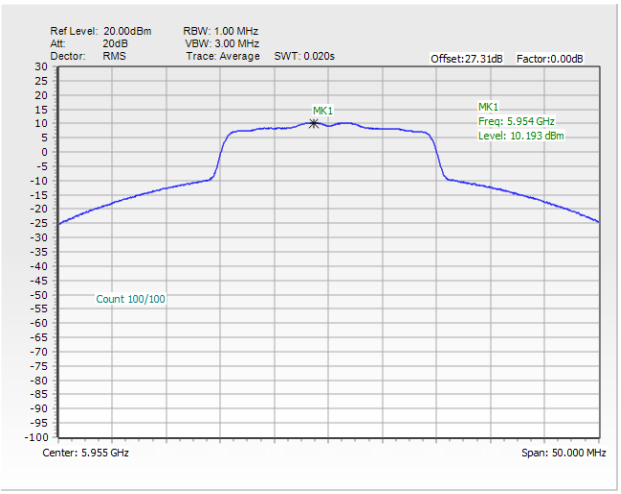
Power Density Plot Trace 1 (Ant 3)	Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT20 Full RU>

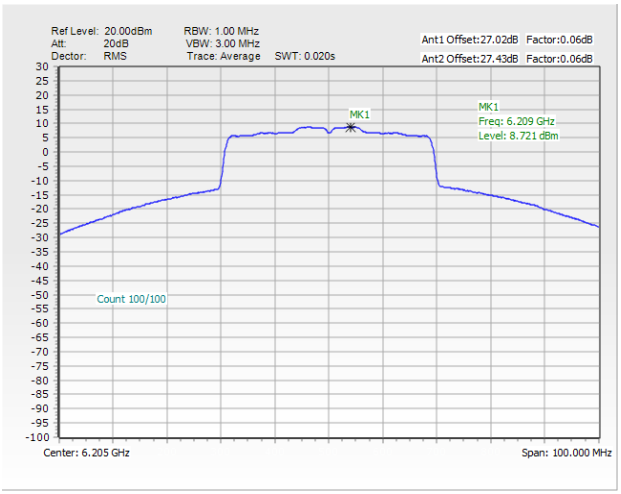
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

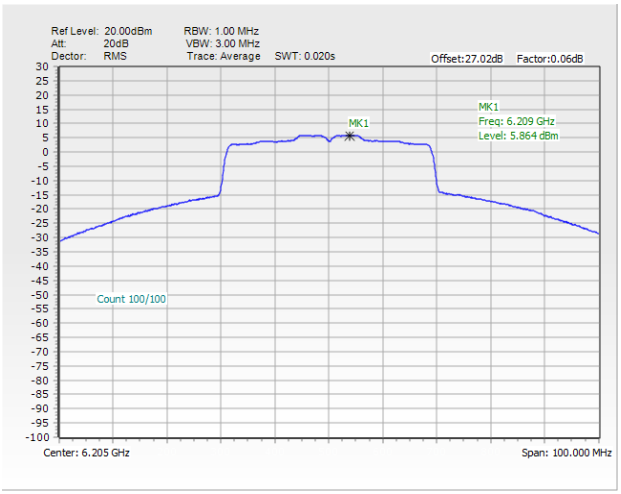
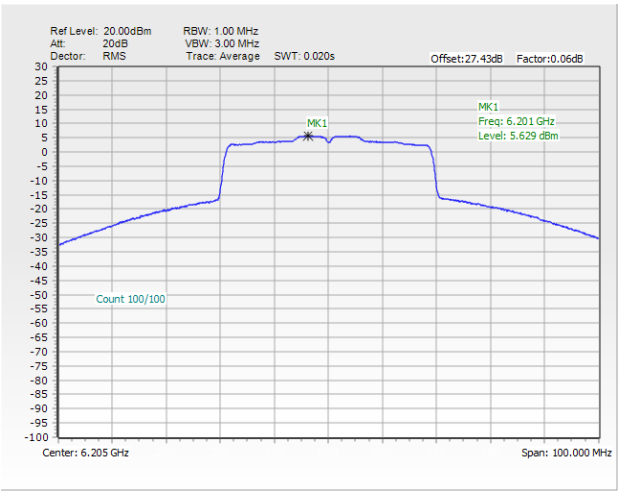
Power Density Plot Trace 1 (Ant 3)	Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT40 Full RU>

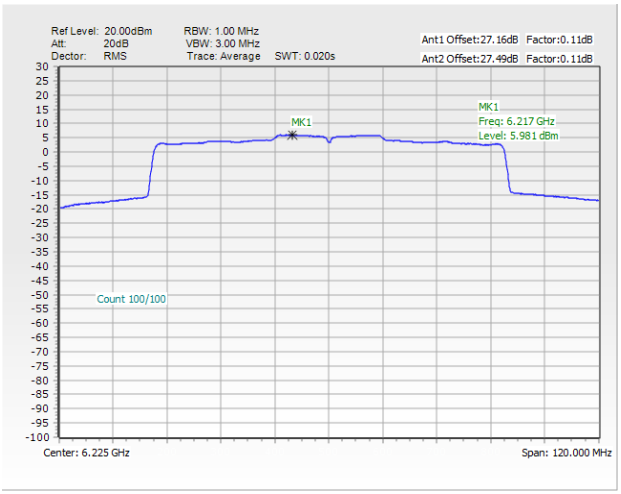
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

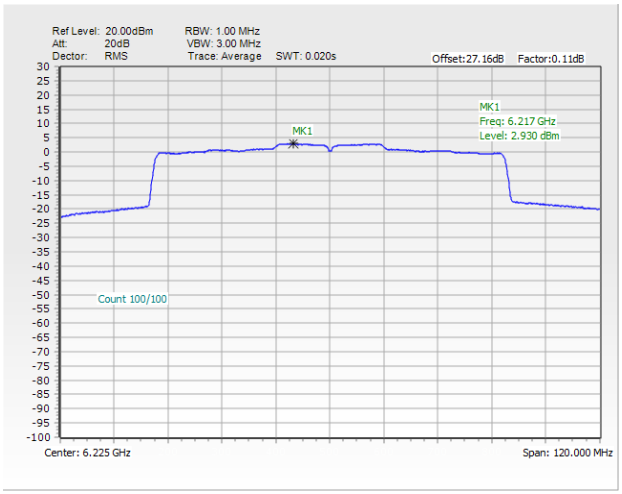
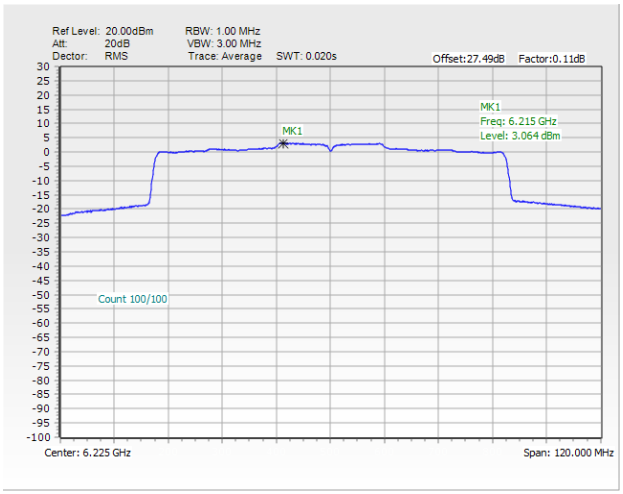
Power Density Plot Trace 1 (Ant 3)	Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT80 Full RU>

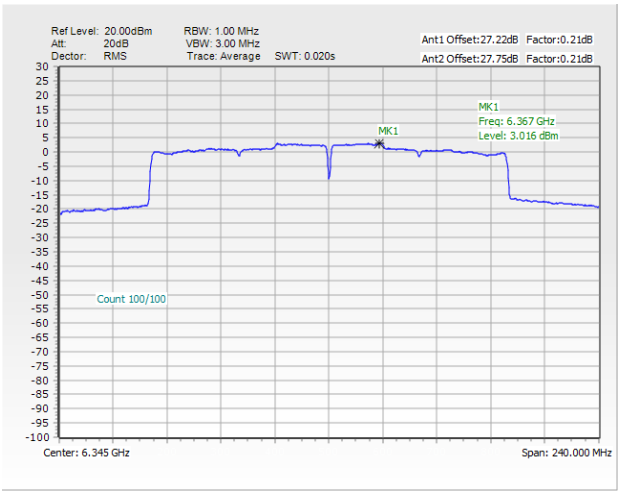
Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

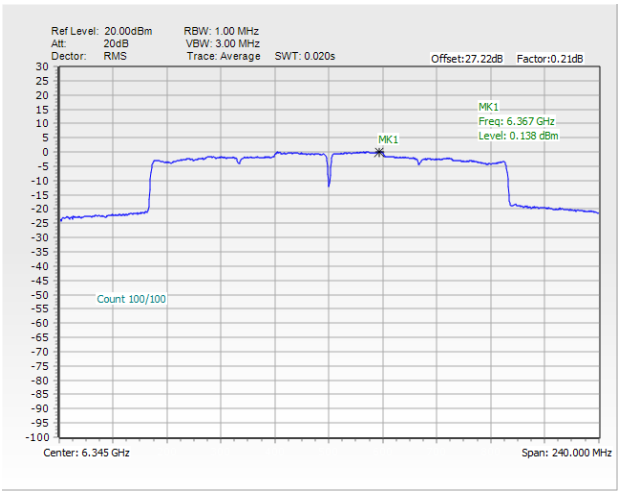
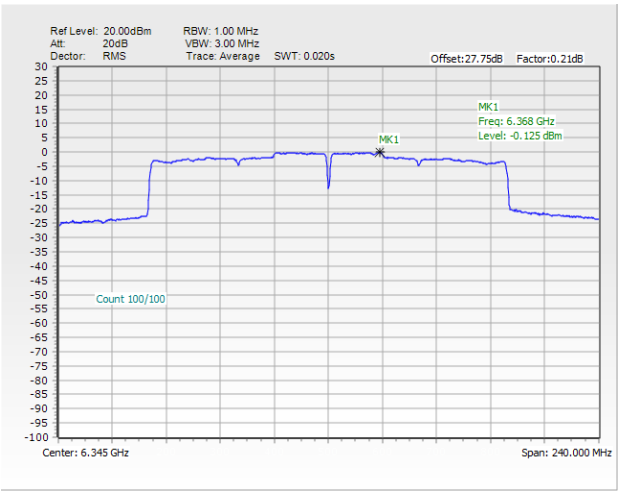
Power Density Plot Trace 1 (Ant 3)	Power Density Plot Trace 2 (Ant 4)
	

<802.11be EHT160 Full RU>

Power Density Plot (dBm/MHz)


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 3)	Power Density Plot Trace 2 (Ant 4)
	

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.

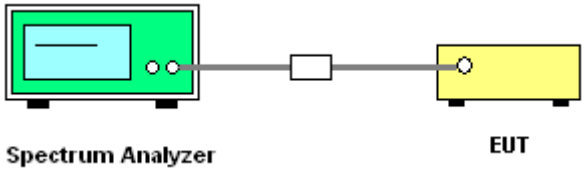
3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

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

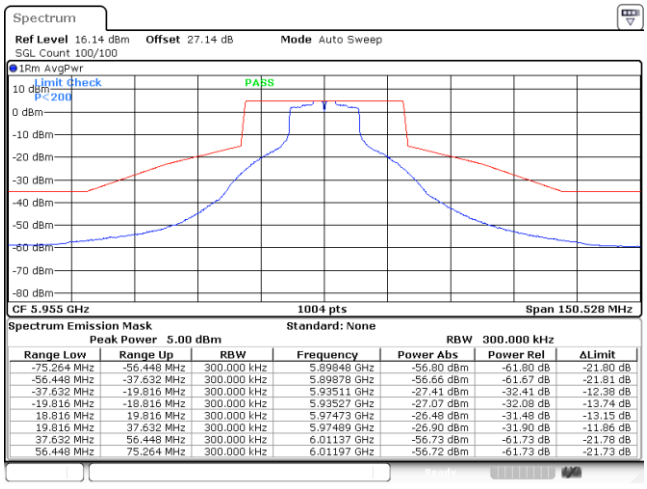


3.4.5 Test Result

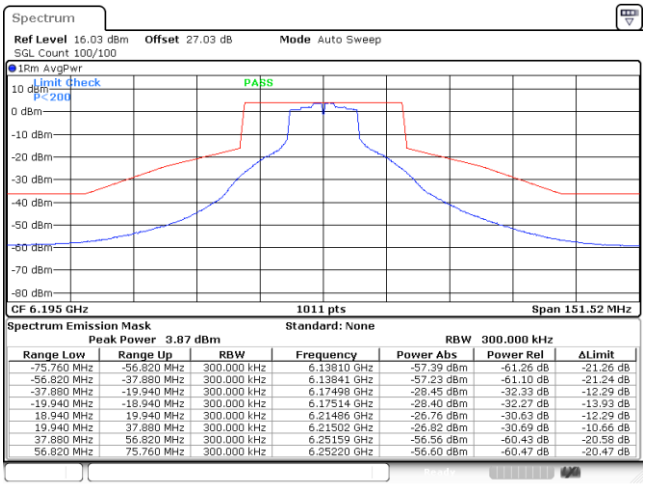
MIMO <Ant. 3+4(3)>

EUT Mode	802.11a

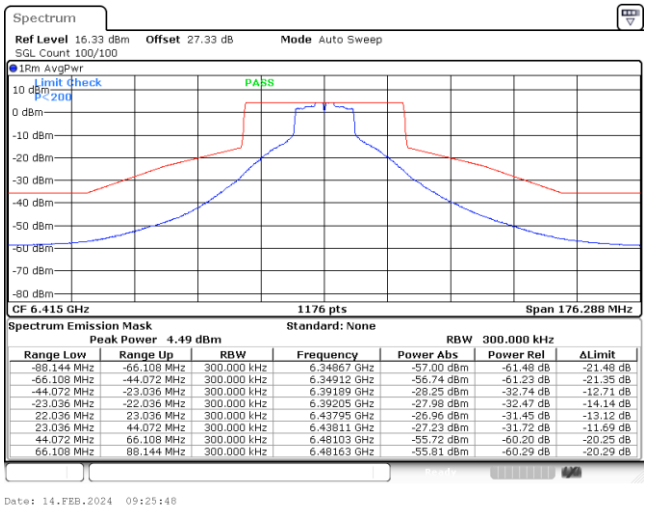
Plot on Channel 5955 MHz



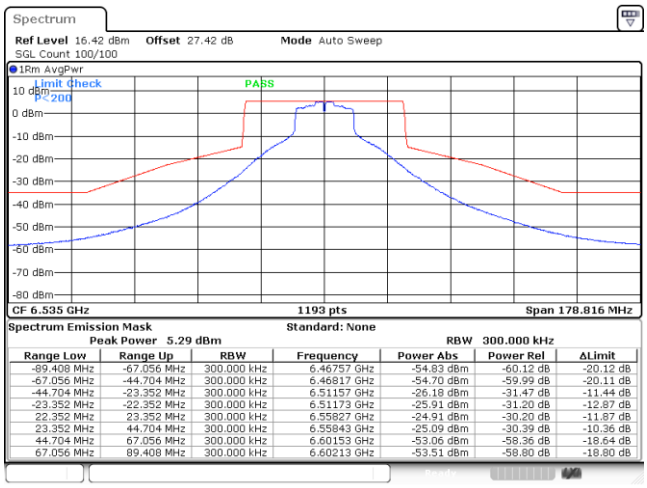
Plot on Channel 6195 MHz



Plot on Channel 6415 MHz



Plot on Channel 6535 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-89.408 MHz	-67.056 MHz	300.000 kHz	6.46757 GHz	-54.83 dBm	-60.12 dB	-20.12 dB
-67.056 MHz	-44.704 MHz	300.000 kHz	6.46817 GHz	-54.70 dBm	-59.99 dB	-20.11 dB
-44.704 MHz	-23.352 MHz	300.000 kHz	6.51157 GHz	-26.18 dBm	-31.47 dB	-11.44 dB
-23.352 MHz	-22.352 MHz	300.000 kHz	6.51173 GHz	-25.91 dBm	-31.20 dB	-12.87 dB
22.352 MHz	23.352 MHz	300.000 kHz	6.55827 GHz	-24.91 dBm	-30.20 dB	-11.87 dB
23.352 MHz	44.704 MHz	300.000 kHz	6.55843 GHz	-25.09 dBm	-30.39 dB	-10.36 dB
44.704 MHz	67.056 MHz	300.000 kHz	6.60153 GHz	-53.06 dBm	-58.36 dB	-18.64 dB
67.056 MHz	89.408 MHz	300.000 kHz	6.60213 GHz	-53.51 dBm	-58.80 dB	-18.80 dB

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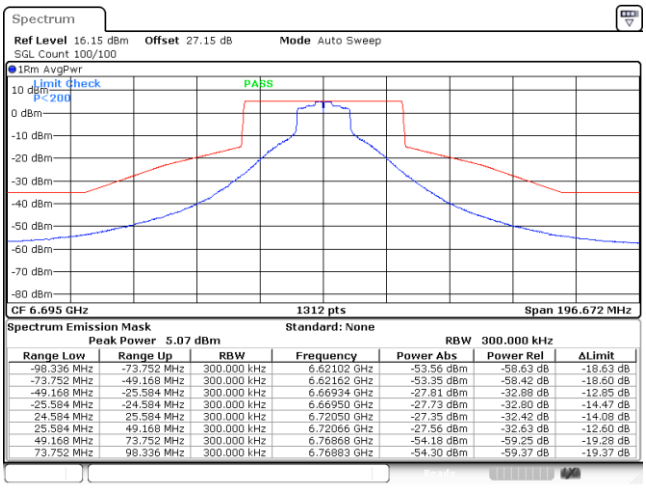
Plot on Channel 6695 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-98.336 MHz	-73.752 MHz	300.000 kHz	6.62102 GHz	-53.56 dBm	-58.63 dB	-18.63 dB
-73.752 MHz	-49.168 MHz	300.000 kHz	6.62162 GHz	-53.35 dBm	-58.42 dB	-18.60 dB
-49.168 MHz	-25.584 MHz	300.000 kHz	6.66934 GHz	-27.81 dBm	-32.88 dB	-12.85 dB
-25.584 MHz	-24.584 MHz	300.000 kHz	6.66950 GHz	-27.73 dBm	-32.80 dB	-14.47 dB
24.584 MHz	25.584 MHz	300.000 kHz	6.72050 GHz	-27.35 dBm	-32.42 dB	-14.08 dB
25.584 MHz	49.168 MHz	300.000 kHz	6.72066 GHz	-27.56 dBm	-32.63 dB	-12.60 dB
49.168 MHz	73.752 MHz	300.000 kHz	6.76868 GHz	-54.18 dBm	-59.25 dB	-19.28 dB
73.752 MHz	98.336 MHz	300.000 kHz	6.76883 GHz	-54.30 dBm	-59.37 dB	-19.37 dB

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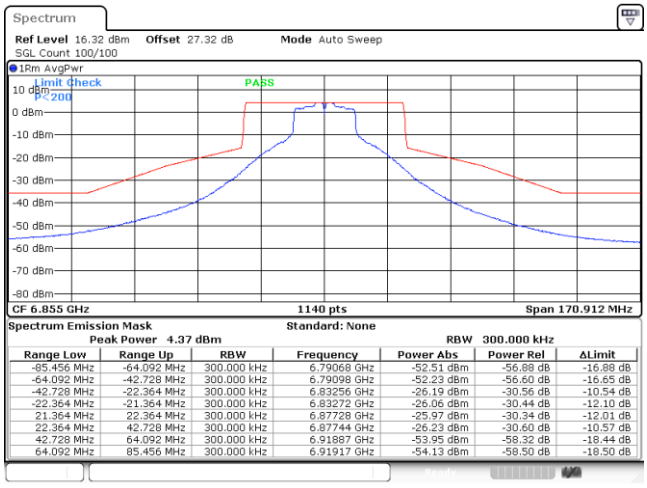
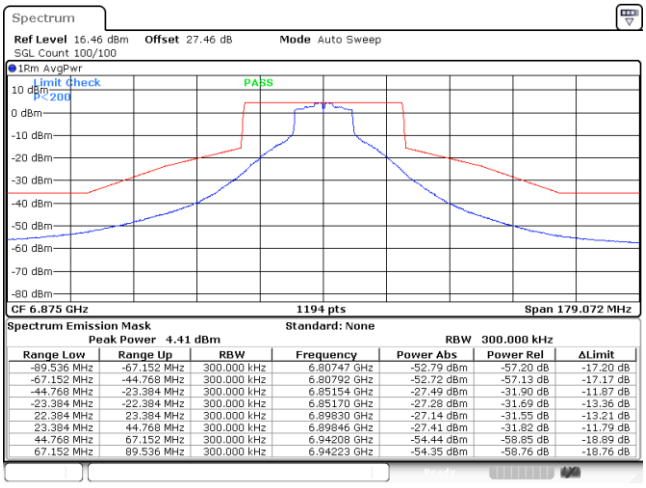
Plot on Channel 6855 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-85.456 MHz	-64.092 MHz	300.000 kHz	6.79068 GHz	-52.51 dBm	-56.88 dB	-16.88 dB
-64.092 MHz	-42.728 MHz	300.000 kHz	6.79098 GHz	-52.23 dBm	-56.60 dB	-16.65 dB
-42.728 MHz	-22.364 MHz	300.000 kHz	6.83256 GHz	-26.19 dBm	-30.56 dB	-10.54 dB
-22.364 MHz	-21.364 MHz	300.000 kHz	6.83272 GHz	-26.06 dBm	-30.44 dB	-12.10 dB
21.364 MHz	22.364 MHz	300.000 kHz	6.87728 GHz	-25.97 dBm	-30.34 dB	-12.01 dB
22.364 MHz	42.728 MHz	300.000 kHz	6.87744 GHz	-26.23 dBm	-30.60 dB	-10.57 dB
42.728 MHz	64.092 MHz	300.000 kHz	6.91887 GHz	-53.95 dBm	-58.32 dB	-18.44 dB
64.092 MHz	85.456 MHz	300.000 kHz	6.91917 GHz	-54.13 dBm	-58.50 dB	-18.50 dB

Date: 14.FEB.2024 10:29:10

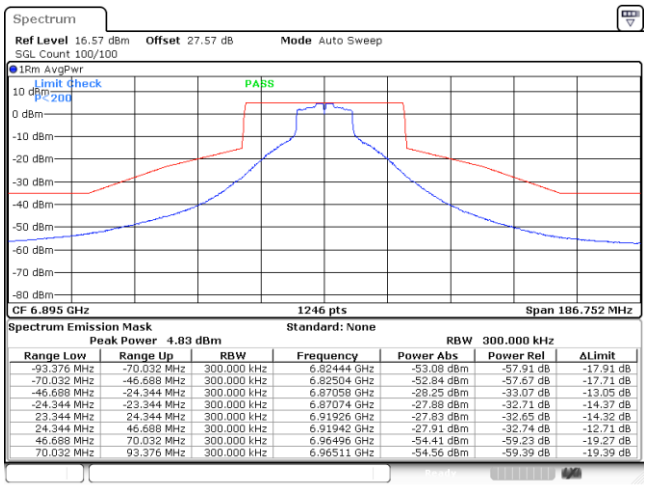
Plot on Channel 6875 MHz



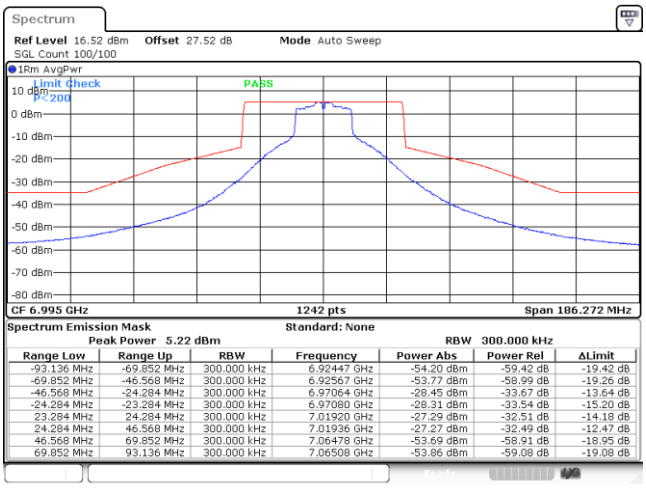
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-89.536 MHz	-67.152 MHz	300.000 kHz	6.80747 GHz	-52.79 dBm	-57.20 dB	-17.20 dB
-67.152 MHz	-44.768 MHz	300.000 kHz	6.80792 GHz	-52.72 dBm	-57.13 dB	-17.17 dB
-44.768 MHz	-23.384 MHz	300.000 kHz	6.85154 GHz	-27.49 dBm	-31.90 dB	-11.87 dB
-23.384 MHz	-22.384 MHz	300.000 kHz	6.85170 GHz	-27.28 dBm	-31.69 dB	-13.36 dB
22.384 MHz	23.384 MHz	300.000 kHz	6.89830 GHz	-27.14 dBm	-31.55 dB	-13.21 dB
23.384 MHz	44.768 MHz	300.000 kHz	6.89846 GHz	-27.41 dBm	-31.82 dB	-11.79 dB
44.768 MHz	67.152 MHz	300.000 kHz	6.94208 GHz	-54.44 dBm	-58.85 dB	-18.89 dB
67.152 MHz	89.536 MHz	300.000 kHz	6.94223 GHz	-54.35 dBm	-58.76 dB	-18.76 dB

Date: 14.FEB.2024 10:04:35

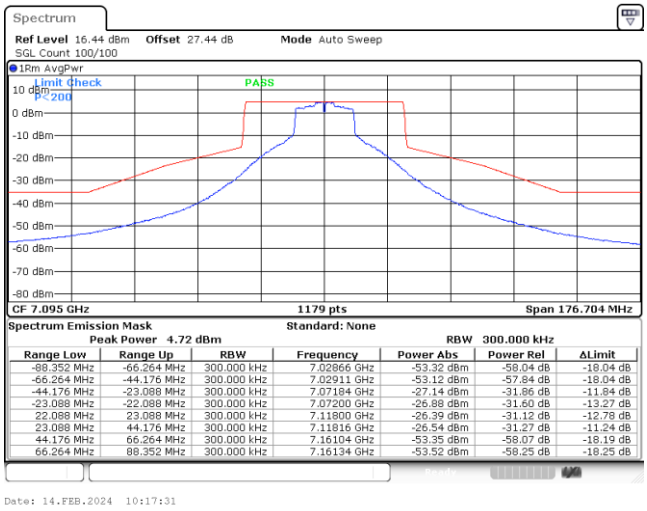
Plot on Channel 6895 MHz



Plot on Channel 6995 MHz

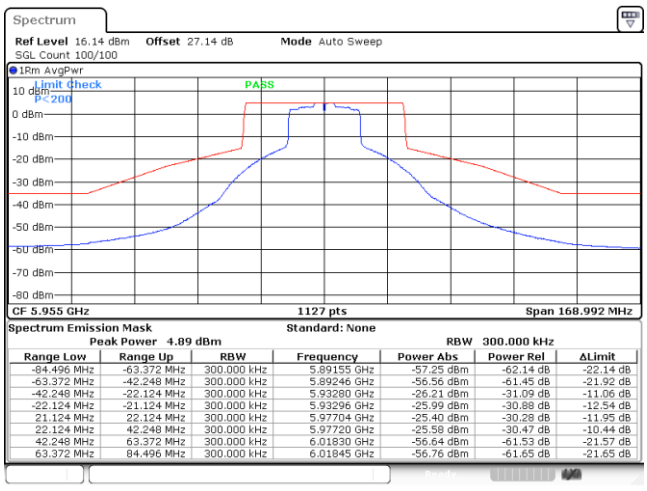


Plot on Channel 7095 MHz

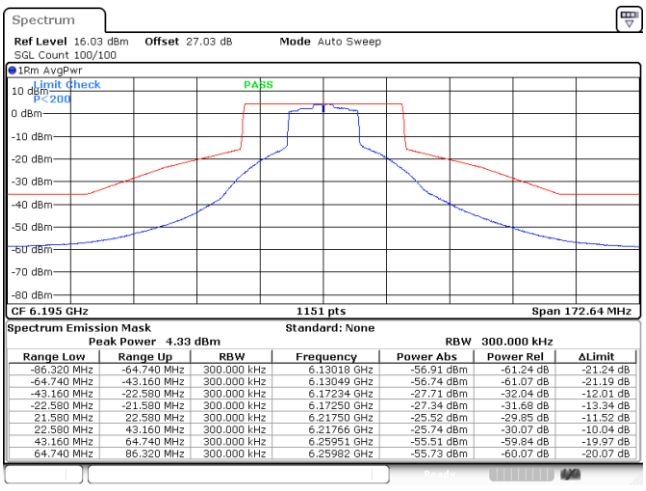


EUT Mode	802.11be EHT20 Full RU

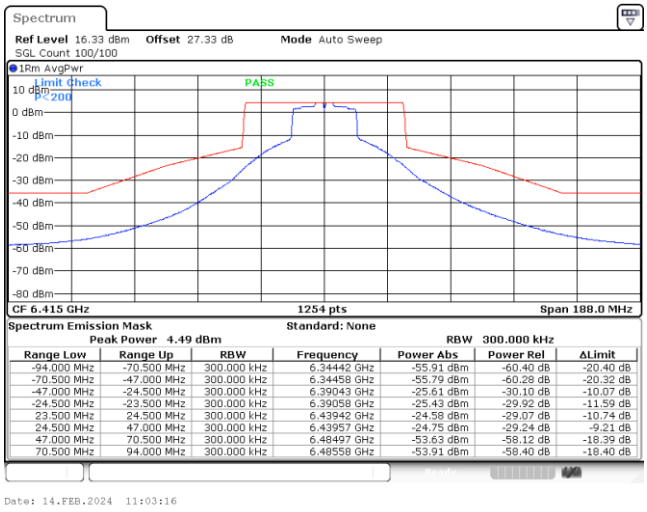
Plot on Channel 5955 MHz



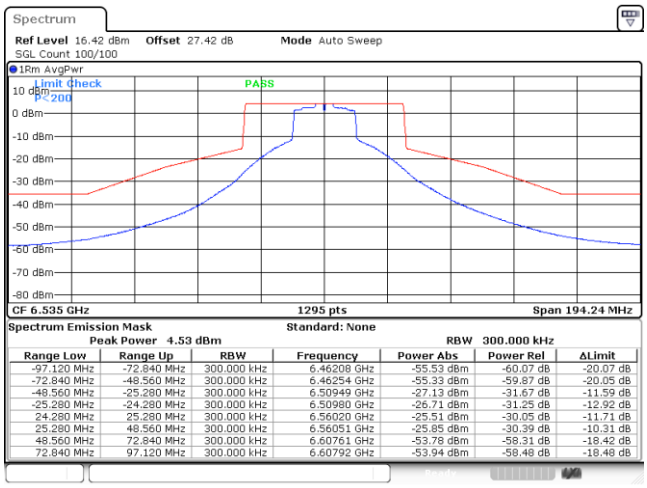
Plot on Channel 6195 MHz



Plot on Channel 6415 MHz



Plot on Channel 6535 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-97.120 MHz	-72.840 MHz	300.000 kHz	6.46208 GHz	-55.53 dBm	-60.07 dB	-20.07 dB
-72.840 MHz	-48.560 MHz	300.000 kHz	6.46254 GHz	-55.33 dBm	-59.87 dB	-20.05 dB
-48.560 MHz	-25.280 MHz	300.000 kHz	6.50949 GHz	-27.13 dBm	-31.67 dB	-11.59 dB
-25.280 MHz	-24.280 MHz	300.000 kHz	6.50980 GHz	-26.71 dBm	-31.25 dB	-12.92 dB
24.280 MHz	25.280 MHz	300.000 kHz	6.56020 GHz	-25.51 dBm	-30.05 dB	-11.71 dB
25.280 MHz	48.560 MHz	300.000 kHz	6.56051 GHz	-25.85 dBm	-30.39 dB	-10.31 dB
48.560 MHz	72.840 MHz	300.000 kHz	6.60761 GHz	-53.78 dBm	-58.31 dB	-18.42 dB
72.840 MHz	97.120 MHz	300.000 kHz	6.60792 GHz	-53.94 dBm	-58.48 dB	-18.48 dB

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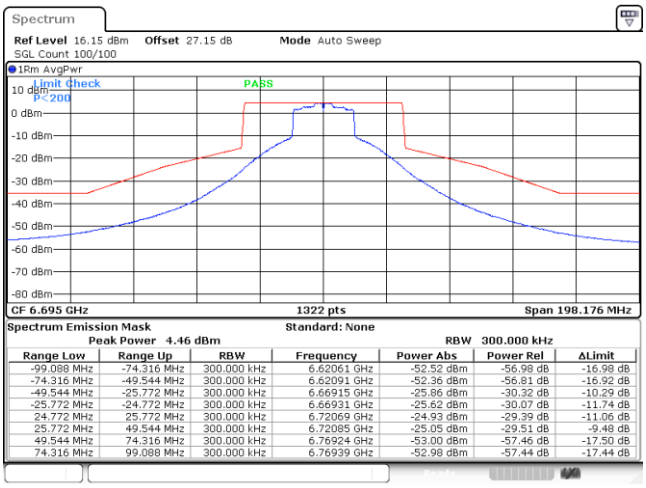
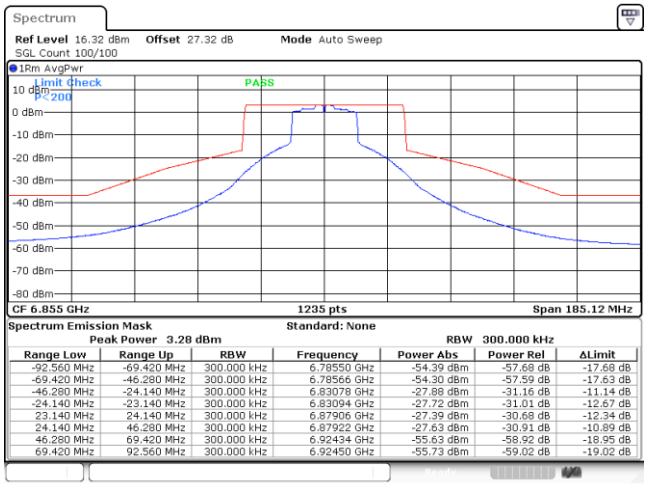
Plot on Channel 6695 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-99.088 MHz	-74.316 MHz	300.000 kHz	6.62061 GHz	-52.52 dBm	-56.98 dB	-16.98 dB
-74.316 MHz	-49.544 MHz	300.000 kHz	6.62091 GHz	-52.36 dBm	-56.81 dB	-16.92 dB
-49.544 MHz	-25.772 MHz	300.000 kHz	6.66915 GHz	-25.86 dBm	-30.32 dB	-10.29 dB
-25.772 MHz	-24.772 MHz	300.000 kHz	6.66931 GHz	-25.62 dBm	-30.07 dB	-11.74 dB
24.772 MHz	25.772 MHz	300.000 kHz	6.72069 GHz	-24.93 dBm	-29.39 dB	-11.06 dB
25.772 MHz	49.544 MHz	300.000 kHz	6.72085 GHz	-25.05 dBm	-29.51 dB	-9.48 dB
49.544 MHz	74.316 MHz	300.000 kHz	6.76924 GHz	-53.00 dBm	-57.46 dB	-17.50 dB
74.316 MHz	99.088 MHz	300.000 kHz	6.76939 GHz	-52.98 dBm	-57.44 dB	-17.44 dB

Date: 14.FEB.2024 11:32:51

Plot on Channel 6855 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-92.560 MHz	-69.420 MHz	300.000 kHz	6.78550 GHz	-54.39 dBm	-57.68 dB	-17.68 dB
-69.420 MHz	-46.280 MHz	300.000 kHz	6.78566 GHz	-54.30 dBm	-57.59 dB	-17.63 dB
-46.280 MHz	-24.140 MHz	300.000 kHz	6.83078 GHz	-27.88 dBm	-31.16 dB	-11.14 dB
-24.140 MHz	-23.140 MHz	300.000 kHz	6.83094 GHz	-27.72 dBm	-31.01 dB	-12.67 dB
23.140 MHz	24.140 MHz	300.000 kHz	6.87906 GHz	-27.39 dBm	-30.68 dB	-12.34 dB
24.140 MHz	46.280 MHz	300.000 kHz	6.87922 GHz	-27.63 dBm	-30.91 dB	-10.89 dB
46.280 MHz	69.420 MHz	300.000 kHz	6.92434 GHz	-55.63 dBm	-58.92 dB	-18.95 dB
69.420 MHz	92.560 MHz	300.000 kHz	6.92450 GHz	-55.73 dBm	-59.02 dB	-19.02 dB

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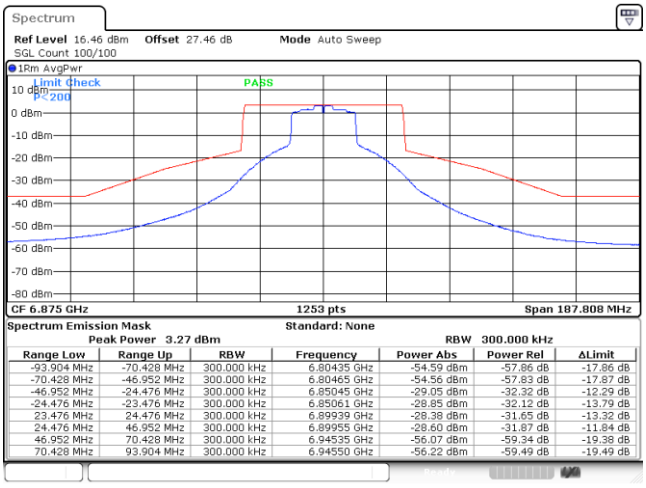
Plot on Channel 6875 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-93.904 MHz	-70.428 MHz	300.000 kHz	6.80435 GHz	-54.59 dBm	-57.86 dB	-17.86 dB
-70.428 MHz	-46.952 MHz	300.000 kHz	6.80465 GHz	-54.56 dBm	-57.83 dB	-17.87 dB
-46.952 MHz	-24.476 MHz	300.000 kHz	6.85045 GHz	-29.05 dBm	-32.32 dB	-12.29 dB
-24.476 MHz	-23.476 MHz	300.000 kHz	6.85061 GHz	-28.85 dBm	-32.12 dB	-13.79 dB
23.476 MHz	24.476 MHz	300.000 kHz	6.89939 GHz	-28.38 dBm	-31.65 dB	-13.32 dB
24.476 MHz	46.952 MHz	300.000 kHz	6.89955 GHz	-28.60 dBm	-31.87 dB	-11.84 dB
46.952 MHz	70.428 MHz	300.000 kHz	6.94535 GHz	-56.07 dBm	-59.34 dB	-19.38 dB
70.428 MHz	93.904 MHz	300.000 kHz	6.94550 GHz	-56.22 dBm	-59.49 dB	-19.49 dB

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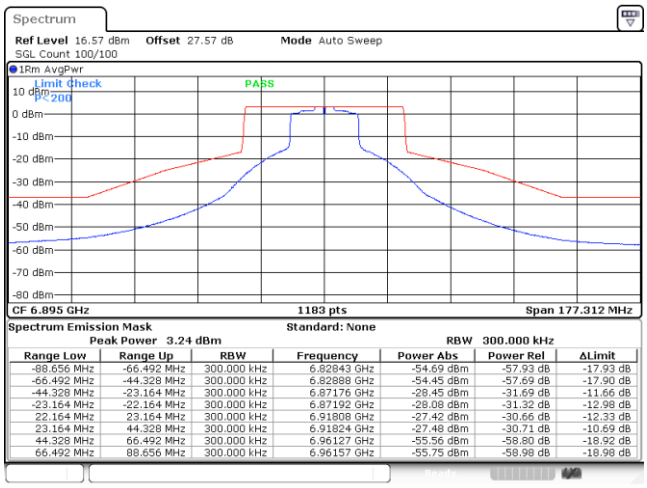
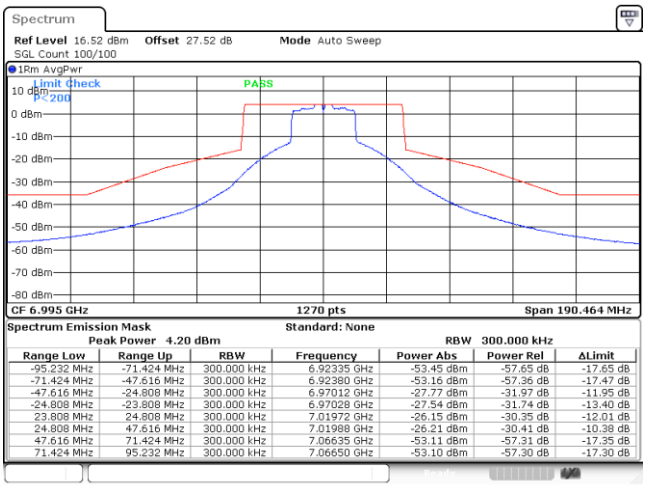
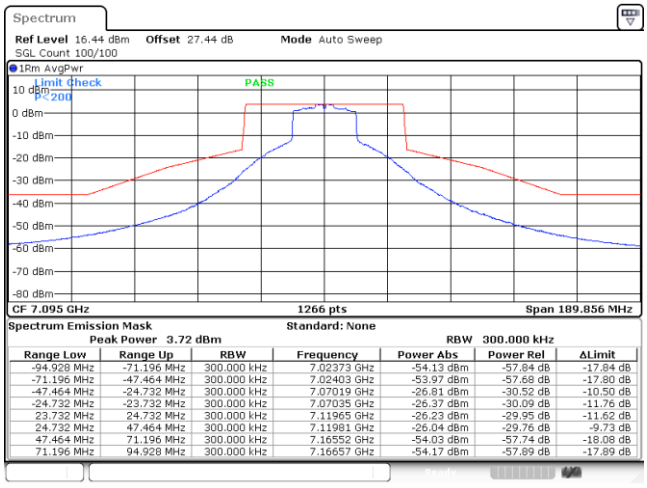
Plot on Channel 6895 MHz



Plot on Channel 6995 MHz

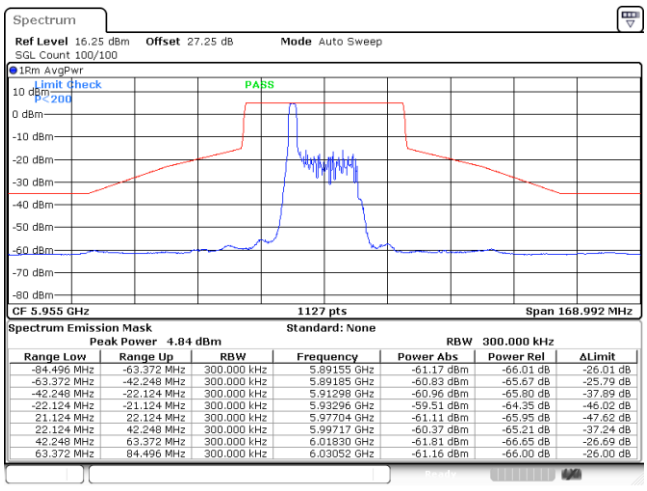


Plot on Channel 7095 MHz

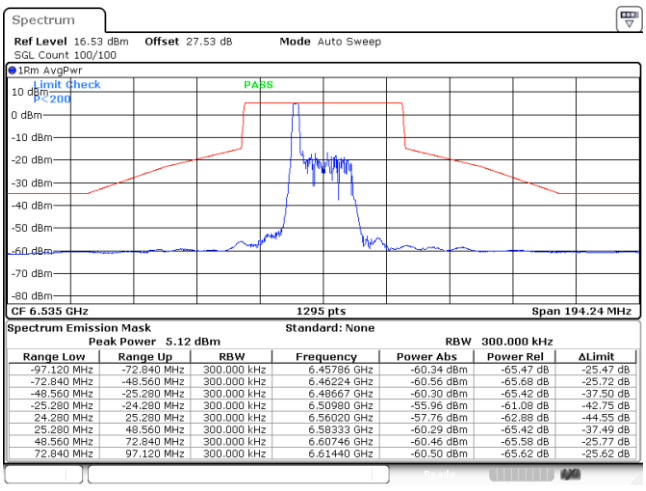


EUT Mode	802.11be EHT20 26RU0

Plot on Channel 5955 MHz

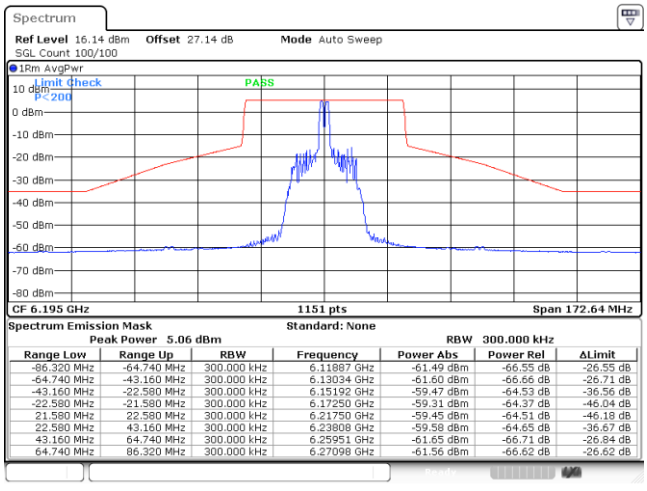


Plot on Channel 6535 MHz

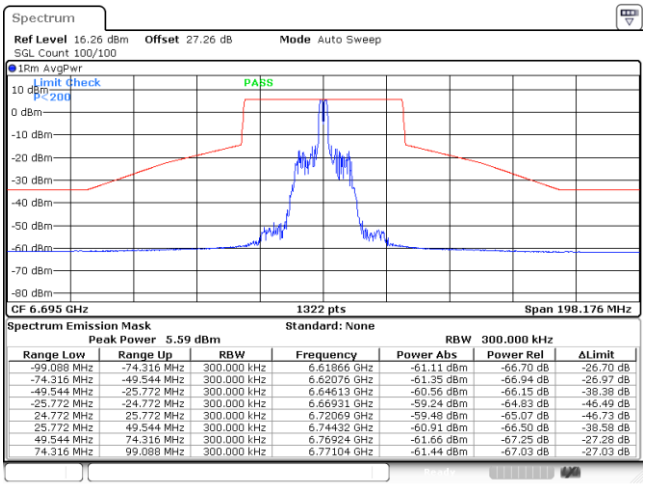


EUT Mode	802.11be EHT20 26RU4

Plot on Channel 6195 MHz

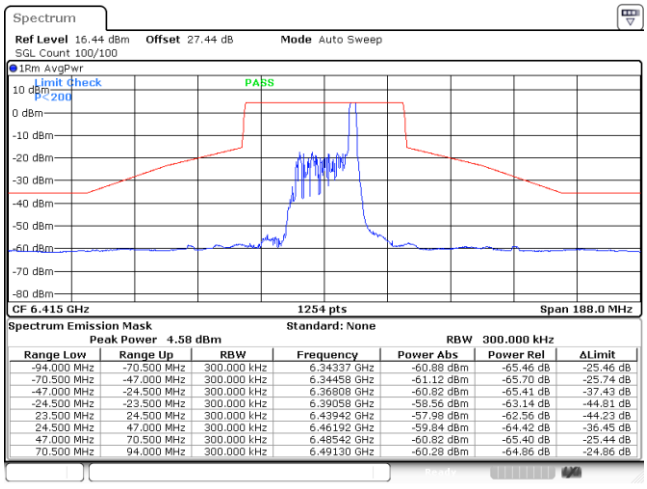


Plot on Channel 6695 MHz

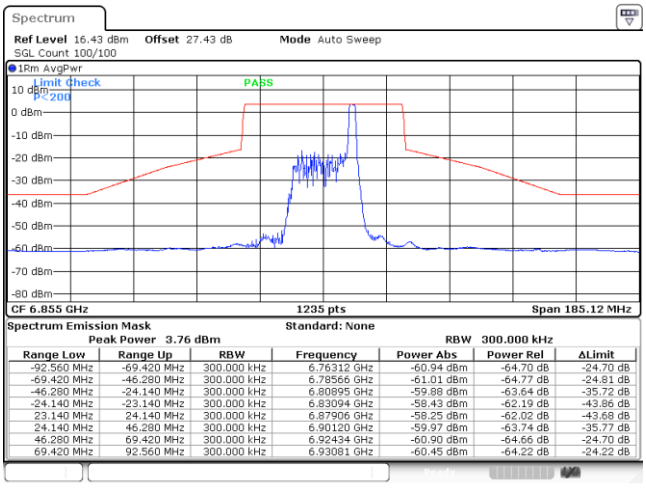


EUT Mode	802.11be EHT20 26RU8

Plot on Channel 6415 MHz

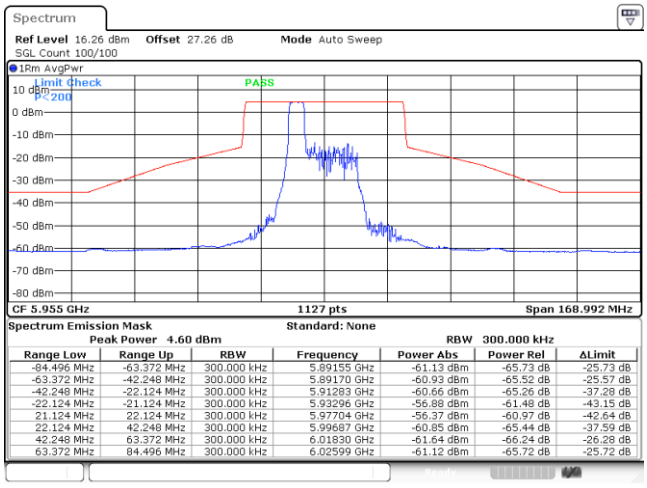


Plot on Channel 6855 MHz

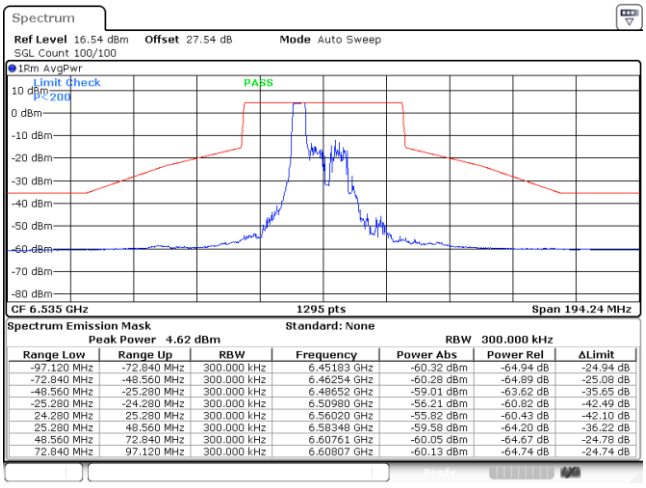


EUT Mode	802.11be EHT20 52RU37

Plot on Channel 5955 MHz

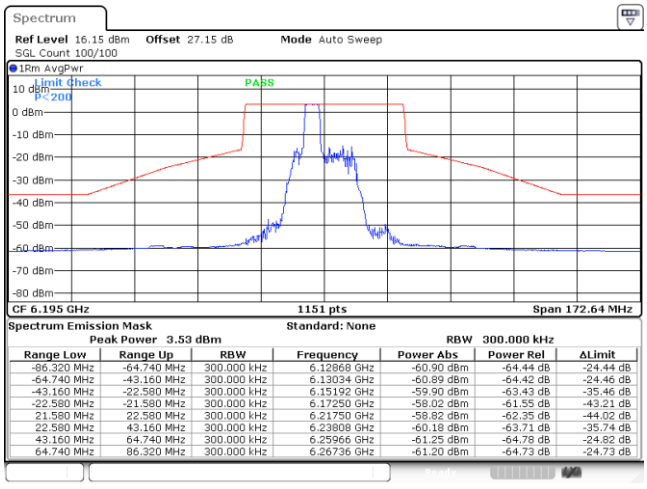


Plot on Channel 6535 MHz

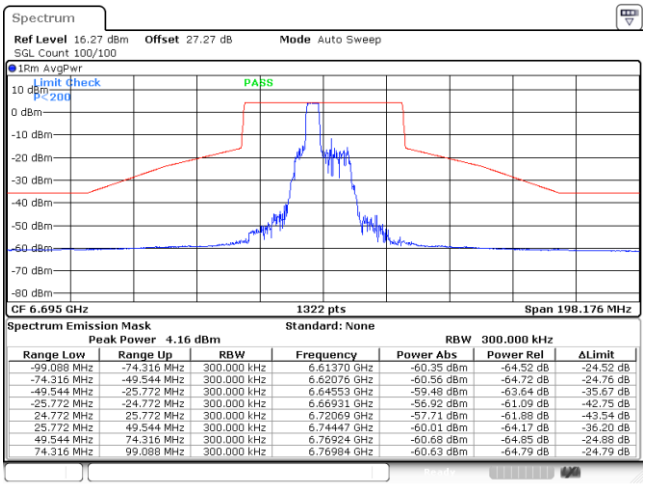


EUT Mode	802.11be EHT20 52RU38

Plot on Channel 6195 MHz

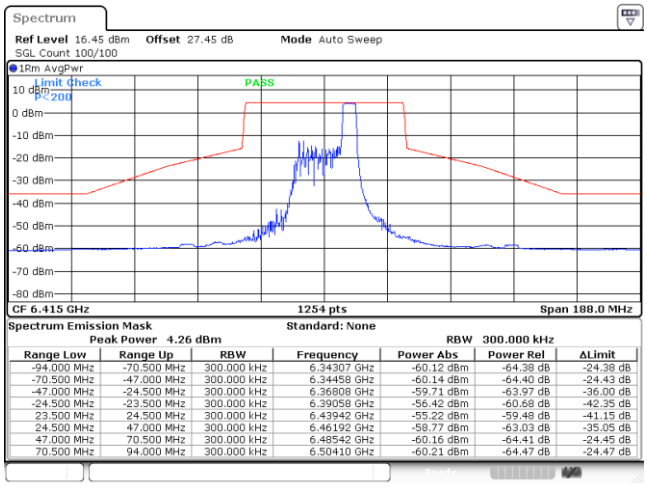


Plot on Channel 6695 MHz

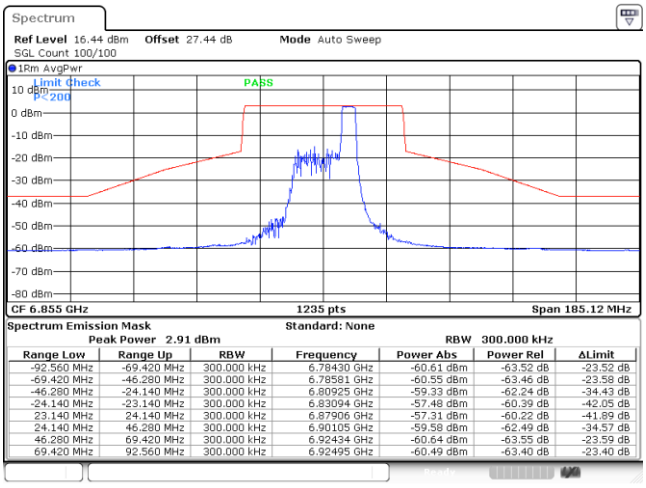


EUT Mode	802.11be EHT20 52RU40

Plot on Channel 6415 MHz

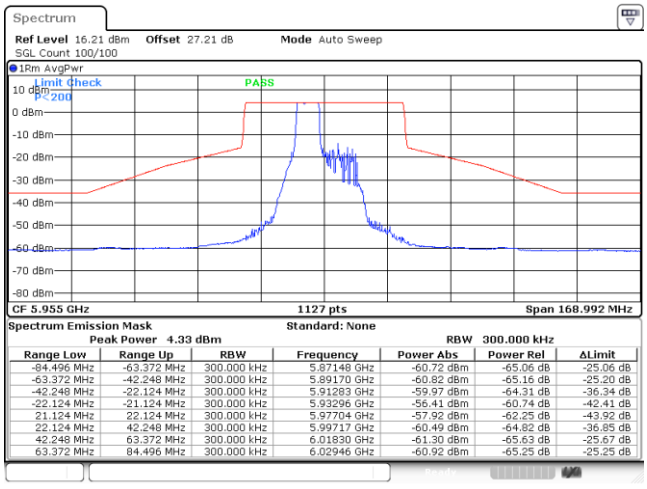


Plot on Channel 6855 MHz

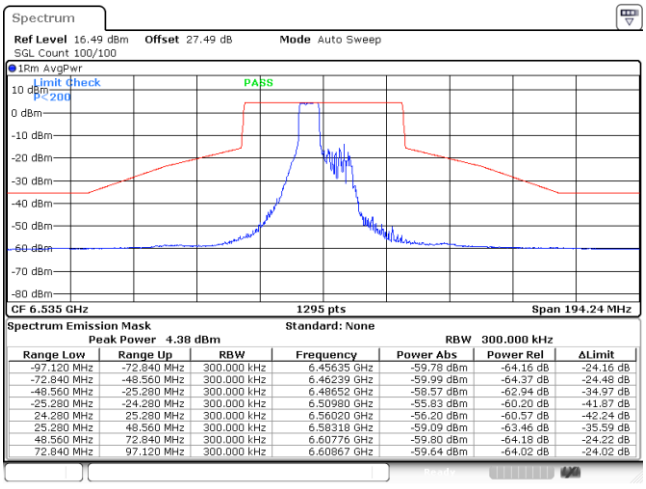


EUT Mode	802.11be EHT20 52T+26T70

Plot on Channel 5955 MHz

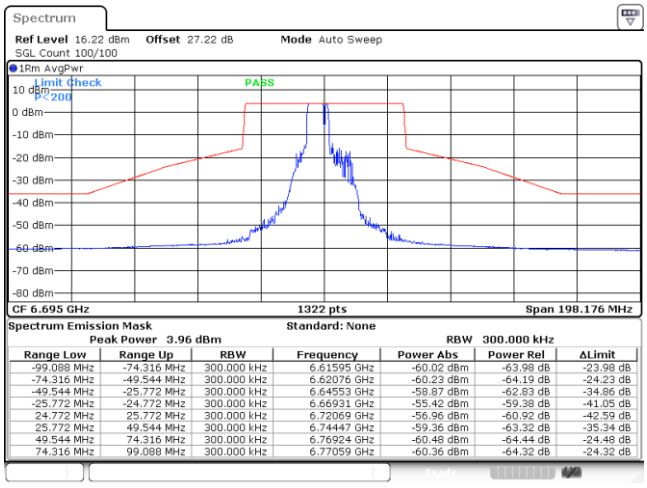


Plot on Channel 6535 MHz



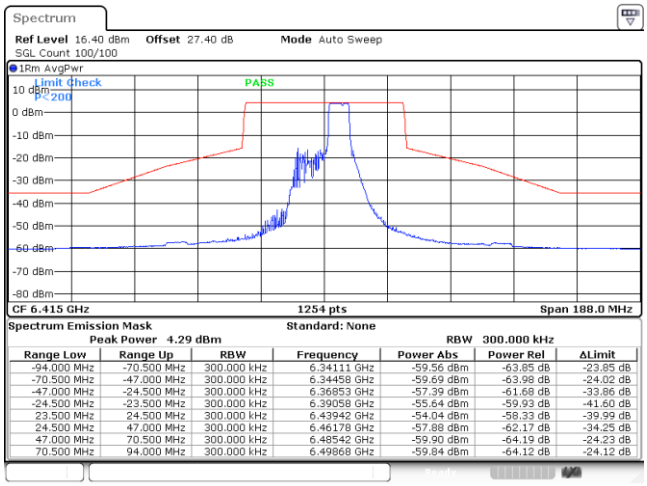
EUT Mode	802.11be EHT20 52T+26T71

Plot on Channel 6695 MHz



EUT Mode	802.11be EHT20 52T+26T72

Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-94.000 MHz	-70.500 MHz	300.000 kHz	6.34111 GHz	-59.56 dBm	-63.85 dB	-23.85 dB
-70.500 MHz	-47.000 MHz	300.000 kHz	6.34458 GHz	-59.69 dBm	-63.98 dB	-24.02 dB
-47.000 MHz	-24.500 MHz	300.000 kHz	6.36853 GHz	-57.39 dBm	-61.68 dB	-33.86 dB
-24.500 MHz	-23.500 MHz	300.000 kHz	6.39058 GHz	-55.64 dBm	-59.93 dB	-41.60 dB
23.500 MHz	24.500 MHz	300.000 kHz	6.43942 GHz	-54.04 dBm	-58.33 dB	-39.99 dB
24.500 MHz	47.000 MHz	300.000 kHz	6.46178 GHz	-57.88 dBm	-62.17 dB	-34.25 dB
47.000 MHz	70.500 MHz	300.000 kHz	6.48542 GHz	-59.90 dBm	-64.19 dB	-24.23 dB
70.500 MHz	94.000 MHz	300.000 kHz	6.49868 GHz	-59.84 dBm	-64.12 dB	-24.12 dB

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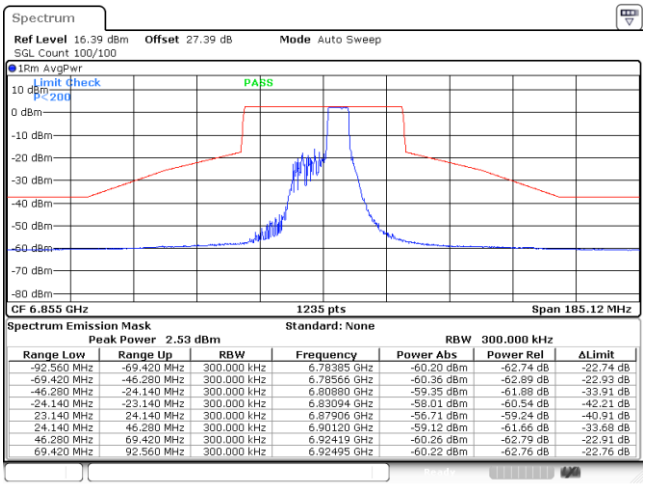
Plot on Channel 6855 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-92.560 MHz	-69.420 MHz	300.000 kHz	6.78385 GHz	-60.20 dBm	-62.74 dB	-22.74 dB
-69.420 MHz	-46.280 MHz	300.000 kHz	6.78566 GHz	-60.36 dBm	-62.89 dB	-22.93 dB
-46.280 MHz	-24.140 MHz	300.000 kHz	6.80880 GHz	-59.35 dBm	-61.88 dB	-33.91 dB
-24.140 MHz	-23.140 MHz	300.000 kHz	6.83094 GHz	-58.01 dBm	-60.54 dB	-42.21 dB
23.140 MHz	24.140 MHz	300.000 kHz	6.87906 GHz	-56.71 dBm	-59.24 dB	-40.91 dB
24.140 MHz	46.280 MHz	300.000 kHz	6.90120 GHz	-59.12 dBm	-61.66 dB	-33.68 dB
46.280 MHz	69.420 MHz	300.000 kHz	6.92419 GHz	-60.26 dBm	-62.79 dB	-22.91 dB
69.420 MHz	92.560 MHz	300.000 kHz	6.92495 GHz	-60.22 dBm	-62.76 dB	-22.76 dB

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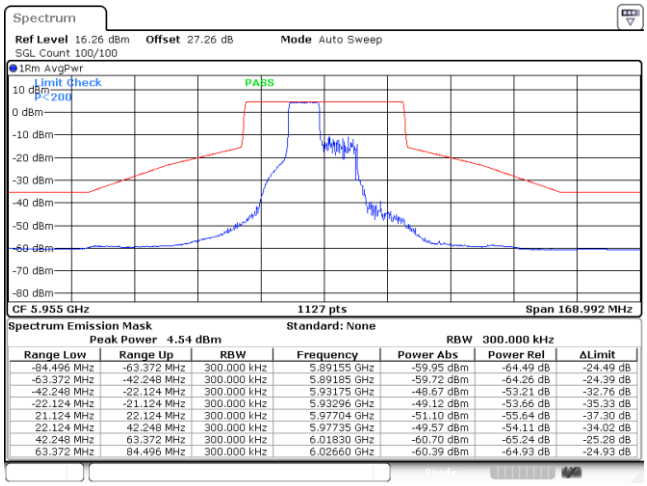
EUT Mode	802.11be EHT20 106RU53

Plot on Channel 5955 MHz



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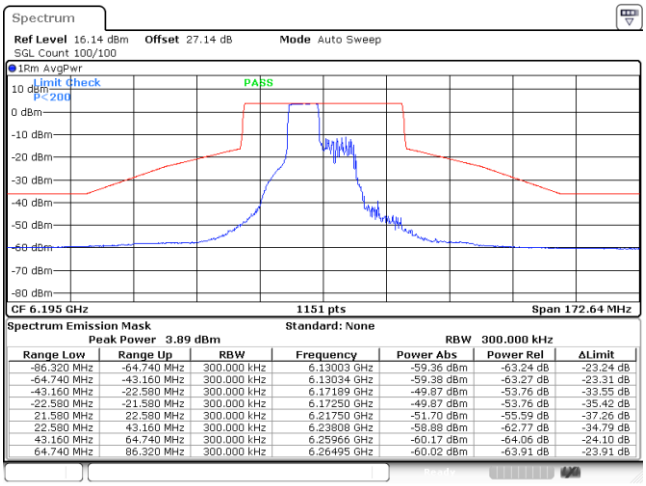
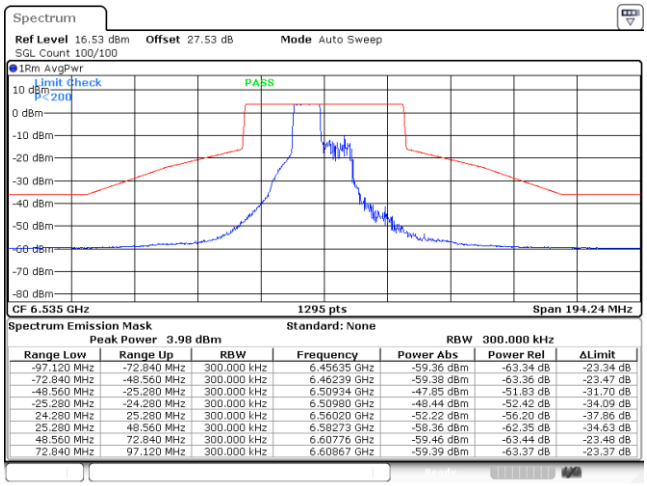
Plot on Channel 6195 MHz



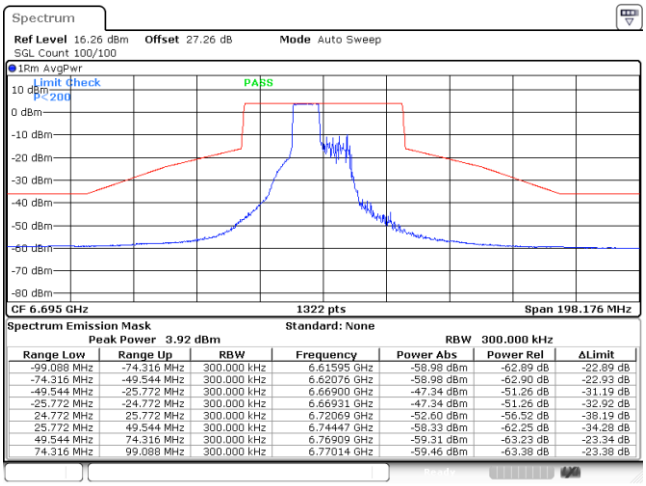
Date: 13.MAR.2024 10:55:24

Plot on Channel 6535 MHz



Date: 13.MAR.2024 15:16:48

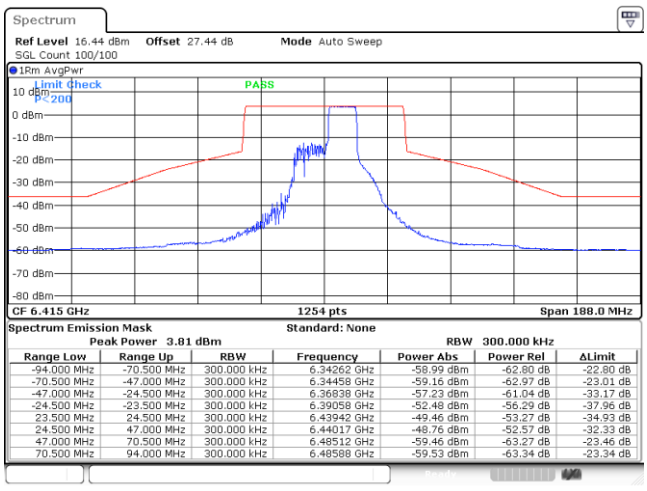
Plot on Channel 6695 MHz



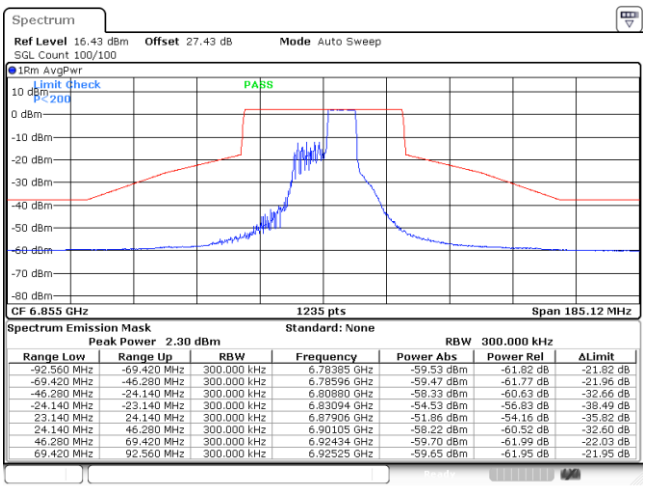
Date: 13.MAR.2024 16:11:39

EUT Mode	802.11be EHT20 106RU54

Plot on Channel 6415 MHz

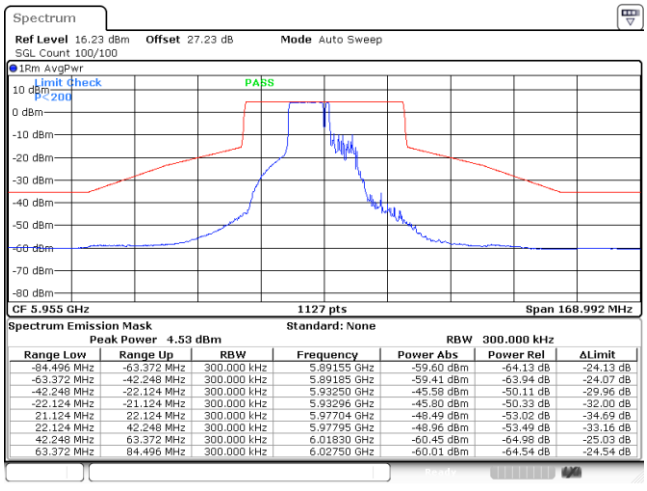


Plot on Channel 6855 MHz

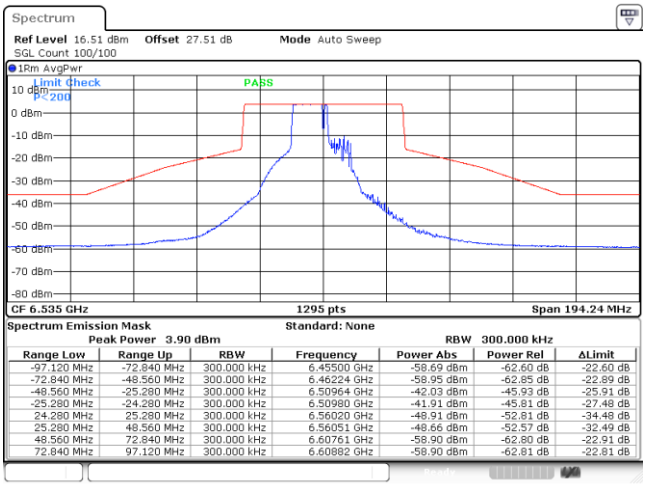


EUT Mode	802.11be EHT20 106T+26T82

Plot on Channel 5955 MHz

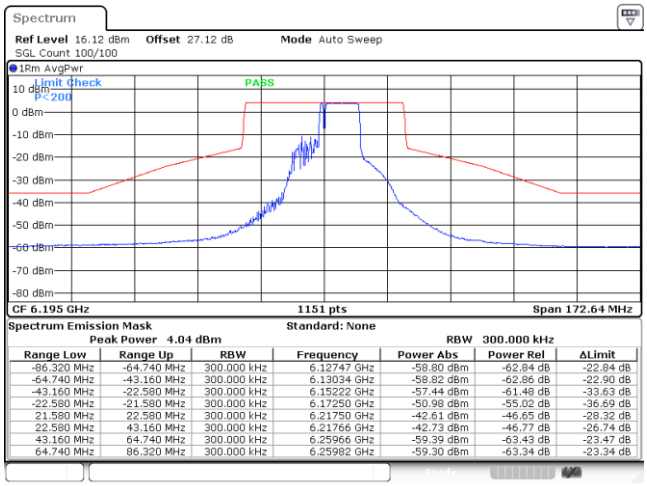


Plot on Channel 6535 MHz

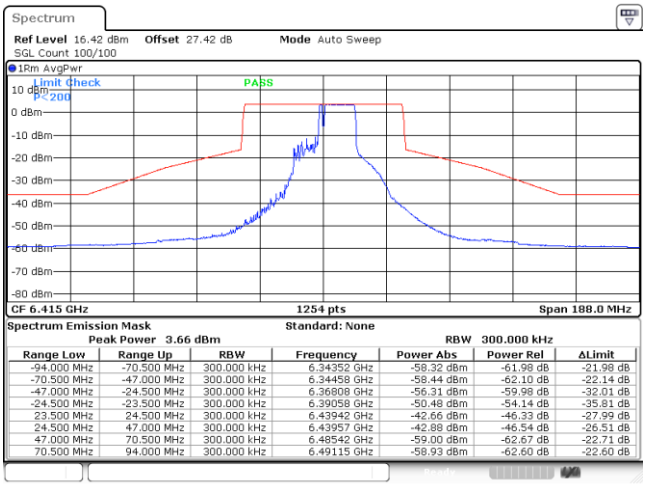


EUT Mode	802.11be EHT20 106T+26T83

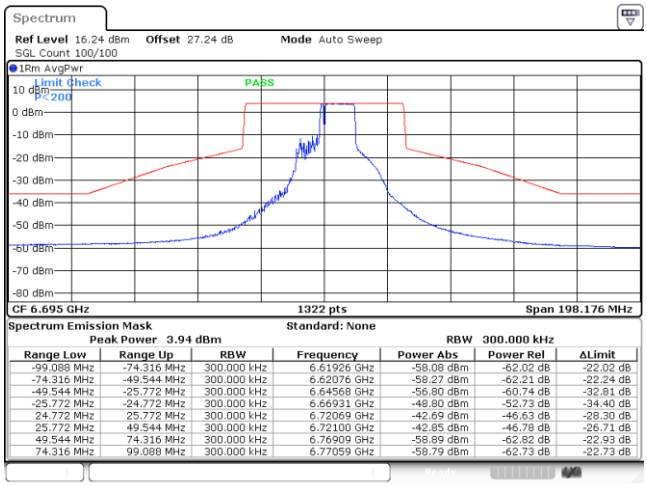
Plot on Channel 6195 MHz



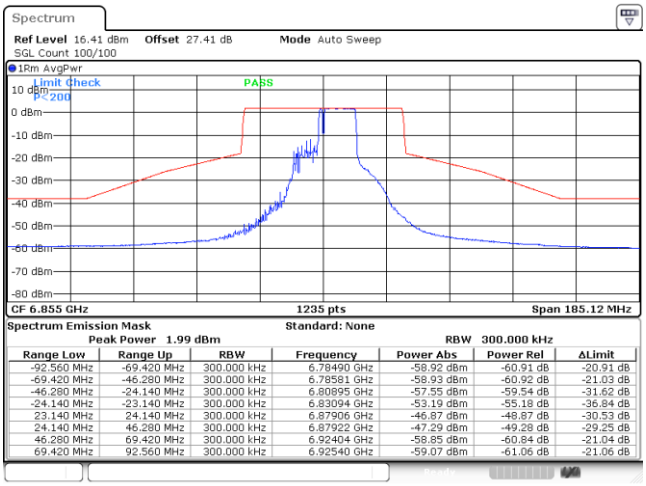
Plot on Channel 6415 MHz



Plot on Channel 6695 MHz

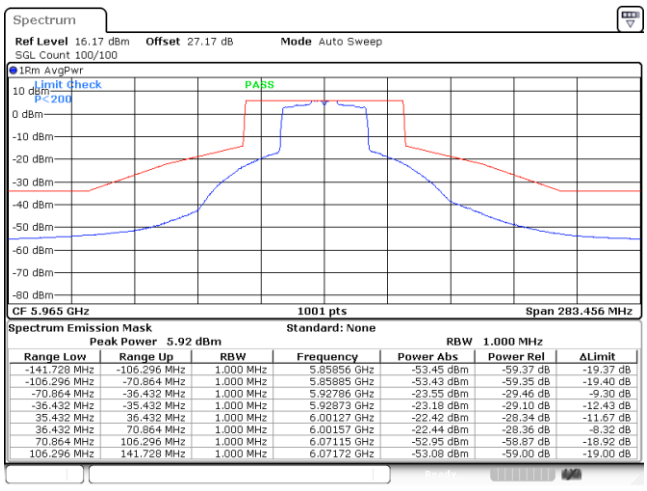


Plot on Channel 6855 MHz



EUT Mode	802.11be EHT40 Full RU

Plot on Channel 5965 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-141.728 MHz	-106.296 MHz	1.000 MHz	5.85856 GHz	-53.45 dBm	-59.37 dB	-19.37 dB
-106.296 MHz	-70.864 MHz	1.000 MHz	5.85885 GHz	-53.43 dBm	-59.35 dB	-19.40 dB
-70.864 MHz	-36.432 MHz	1.000 MHz	5.92786 GHz	-23.55 dBm	-29.46 dB	-9.30 dB
-36.432 MHz	-35.432 MHz	1.000 MHz	5.92873 GHz	-23.18 dBm	-29.10 dB	-12.43 dB
35.432 MHz	36.432 MHz	1.000 MHz	6.00127 GHz	-22.42 dBm	-28.34 dB	-11.67 dB
36.432 MHz	70.864 MHz	1.000 MHz	6.00157 GHz	-22.44 dBm	-28.36 dB	-8.32 dB
70.864 MHz	106.296 MHz	1.000 MHz	6.07115 GHz	-52.95 dBm	-58.87 dB	-18.92 dB
106.296 MHz	141.728 MHz	1.000 MHz	6.07172 GHz	-53.08 dBm	-59.00 dB	-19.00 dB

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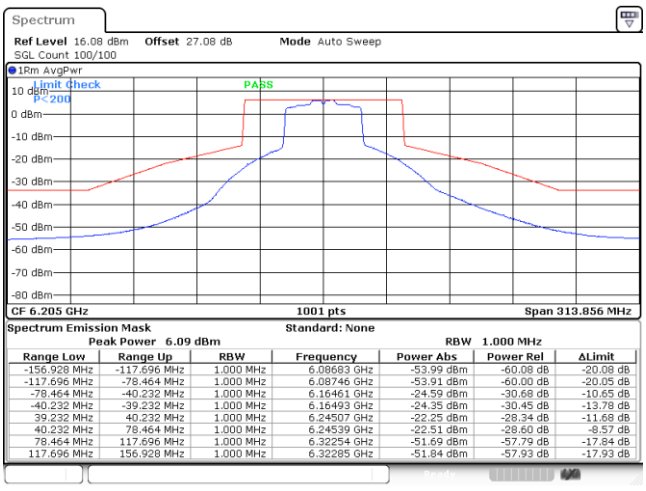
Plot on Channel 6205 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-156.928 MHz	-117.696 MHz	1.000 MHz	6.08683 GHz	-53.99 dBm	-60.08 dB	-20.08 dB
-117.696 MHz	-78.464 MHz	1.000 MHz	6.08746 GHz	-53.91 dBm	-60.00 dB	-20.05 dB
-78.464 MHz	-40.232 MHz	1.000 MHz	6.16461 GHz	-24.59 dBm	-30.68 dB	-10.65 dB
-40.232 MHz	-39.232 MHz	1.000 MHz	6.16493 GHz	-24.35 dBm	-30.45 dB	-13.78 dB
39.232 MHz	40.232 MHz	1.000 MHz	6.24507 GHz	-22.25 dBm	-28.34 dB	-11.68 dB
40.232 MHz	78.464 MHz	1.000 MHz	6.24539 GHz	-22.51 dBm	-28.60 dB	-8.57 dB
78.464 MHz	117.696 MHz	1.000 MHz	6.32254 GHz	-51.69 dBm	-57.79 dB	-17.84 dB
117.696 MHz	156.928 MHz	1.000 MHz	6.32285 GHz	-51.84 dBm	-57.93 dB	-17.93 dB

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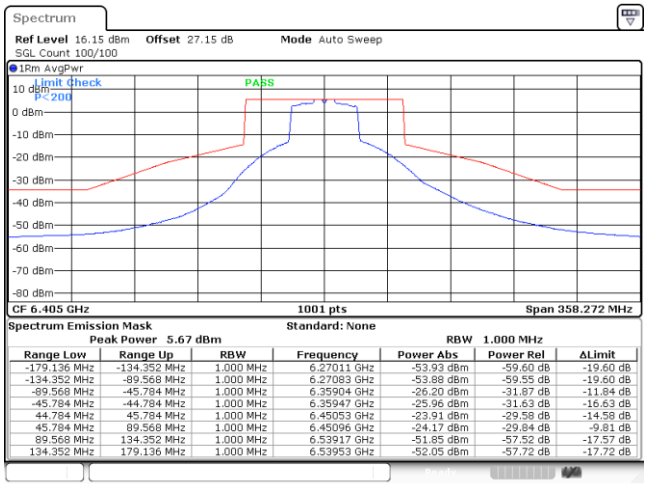
Plot on Channel 6405 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-179.136 MHz	-134.352 MHz	1.000 MHz	6.27011 GHz	-53.93 dBm	-59.60 dB	-19.60 dB
-134.352 MHz	-89.568 MHz	1.000 MHz	6.27083 GHz	-53.88 dBm	-59.55 dB	-19.60 dB
-89.568 MHz	-45.784 MHz	1.000 MHz	6.35904 GHz	-26.20 dBm	-31.87 dB	-11.84 dB
-45.784 MHz	-44.784 MHz	1.000 MHz	6.35947 GHz	-25.96 dBm	-31.63 dB	-16.63 dB
44.784 MHz	45.784 MHz	1.000 MHz	6.45053 GHz	-23.91 dBm	-29.58 dB	-14.58 dB
45.784 MHz	89.568 MHz	1.000 MHz	6.45096 GHz	-24.17 dBm	-29.84 dB	-9.81 dB
89.568 MHz	134.352 MHz	1.000 MHz	6.53917 GHz	-51.85 dBm	-57.52 dB	-17.57 dB
134.352 MHz	179.136 MHz	1.000 MHz	6.53953 GHz	-52.05 dBm	-57.72 dB	-17.72 dB

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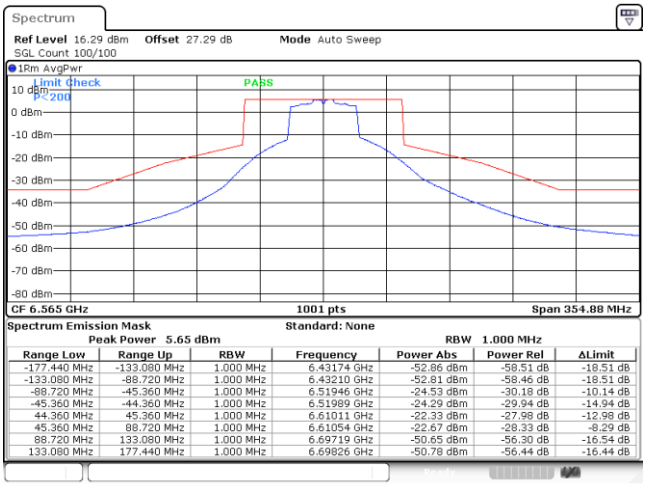
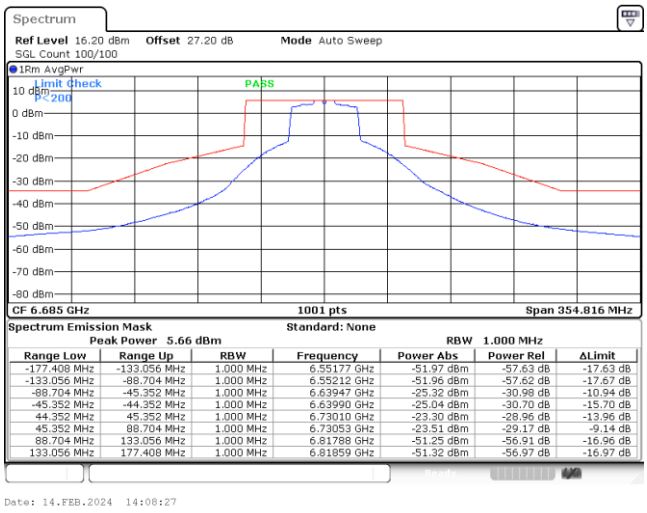
Plot on Channel 6565 MHz



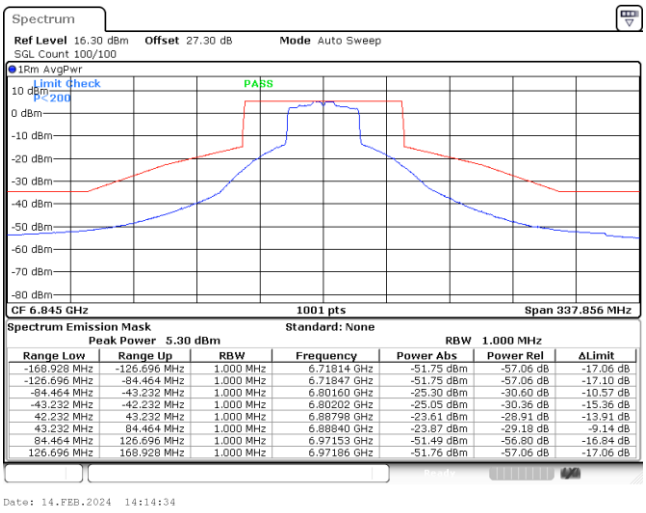
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-177.440 MHz	-133.080 MHz	1.000 MHz	6.43174 GHz	-52.86 dBm	-58.51 dB	-18.51 dB
-133.080 MHz	-88.720 MHz	1.000 MHz	6.43210 GHz	-52.81 dBm	-58.46 dB	-18.51 dB
-88.720 MHz	-45.360 MHz	1.000 MHz	6.51946 GHz	-24.53 dBm	-30.18 dB	-10.14 dB
-45.360 MHz	-44.360 MHz	1.000 MHz	6.51989 GHz	-24.29 dBm	-29.94 dB	-14.94 dB
44.360 MHz	45.360 MHz	1.000 MHz	6.61011 GHz	-22.33 dBm	-27.98 dB	-12.98 dB
45.360 MHz	88.720 MHz	1.000 MHz	6.61054 GHz	-22.67 dBm	-28.33 dB	-8.29 dB
88.720 MHz	133.080 MHz	1.000 MHz	6.69719 GHz	-50.65 dBm	-56.30 dB	-16.54 dB
133.080 MHz	177.440 MHz	1.000 MHz	6.69826 GHz	-50.78 dBm	-56.44 dB	-16.44 dB

Date: 14.FEB.2024 13:59:22

Plot on Channel 6685 MHz

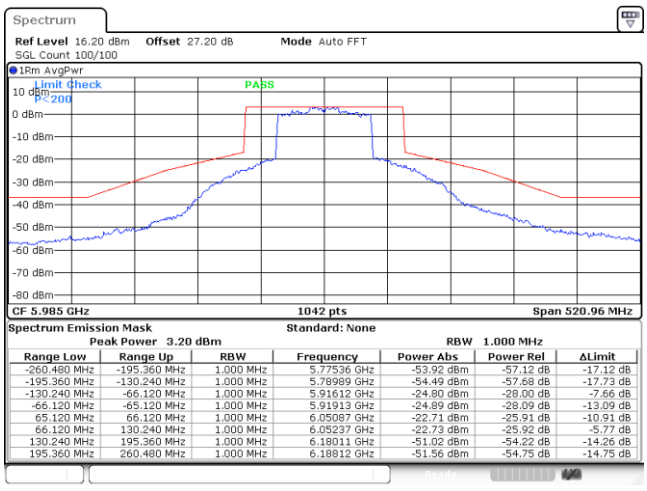


Plot on Channel 6845 MHz

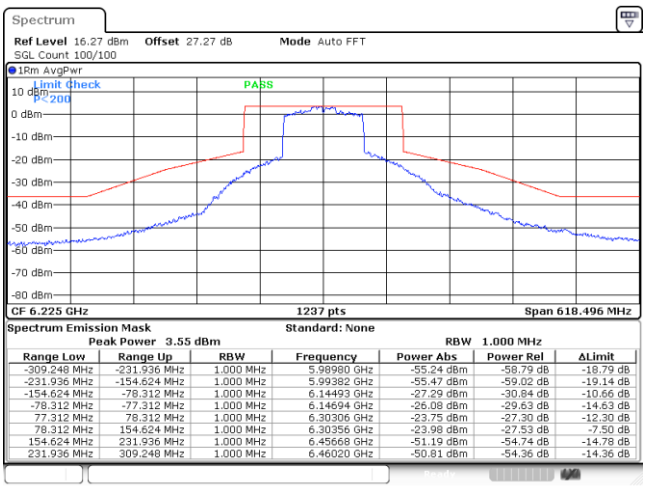


EUT Mode	802.11be EHT80 Full RU

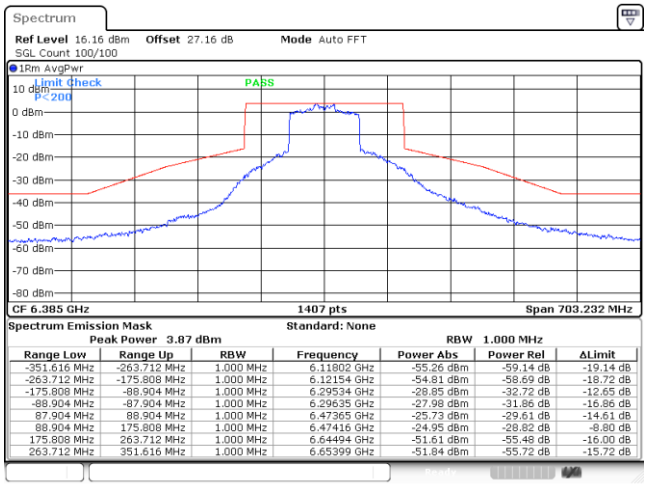
Plot on Channel 5985 MHz



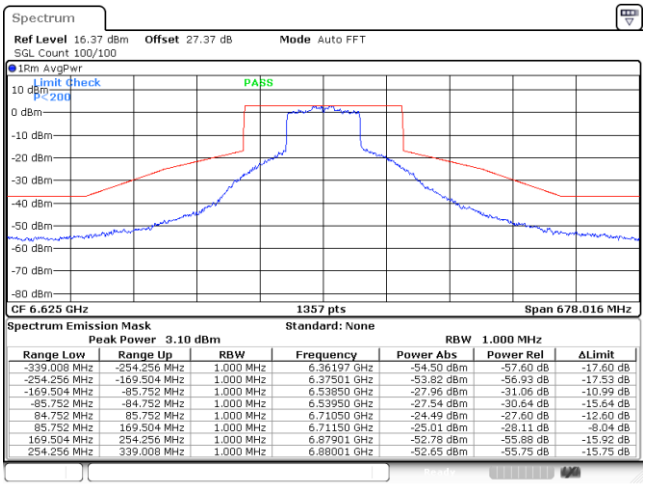
Plot on Channel 6225 MHz



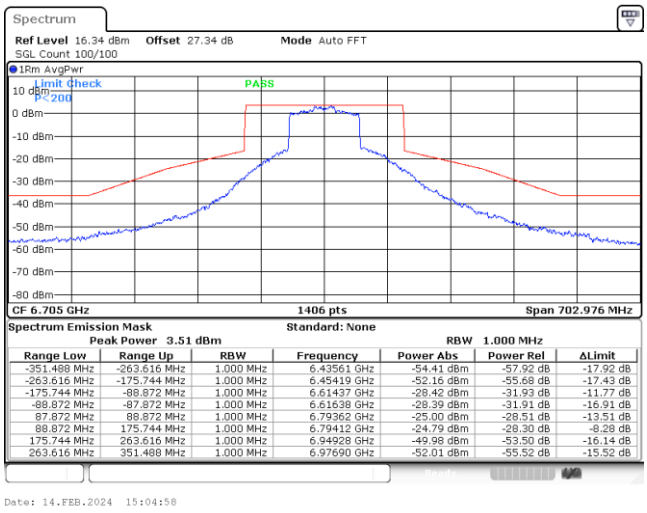
Plot on Channel 6385 MHz



Plot on Channel 6625 MHz



Plot on Channel 6705 MHz



Plot on Channel 6785 MHz