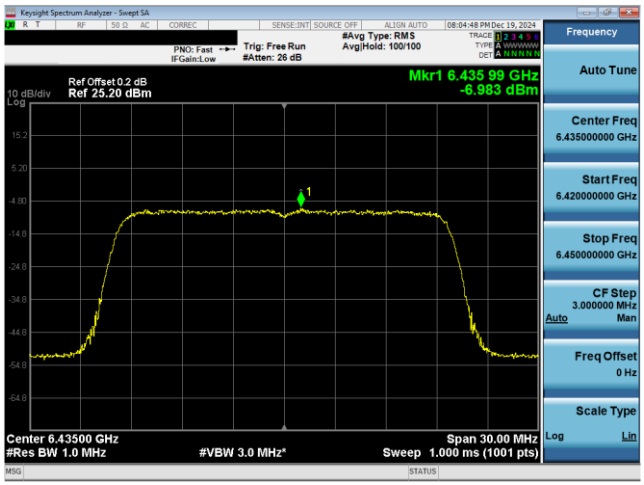
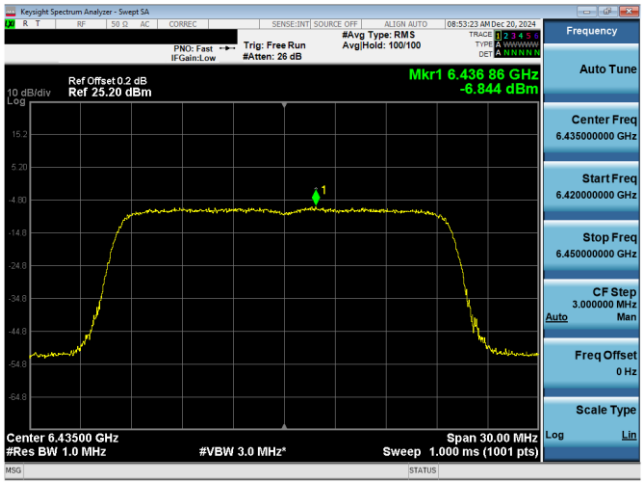
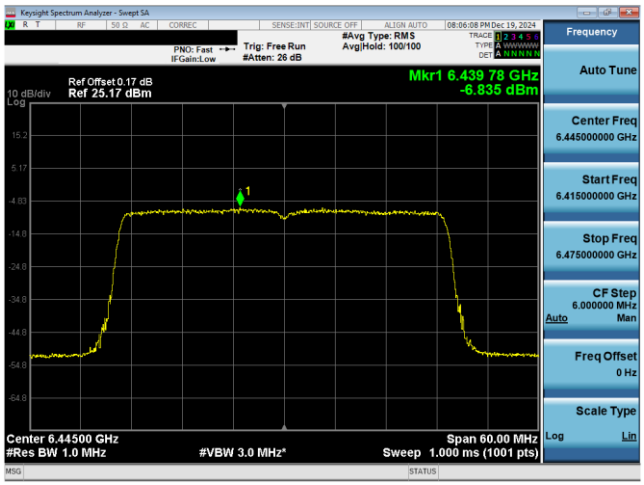


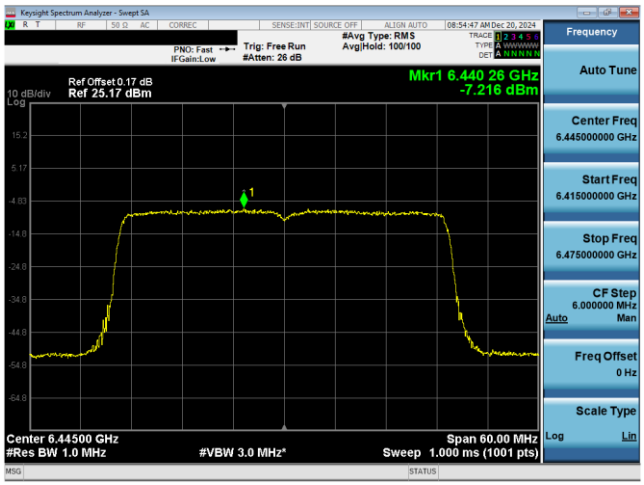
Plot 7-521. PSD Plot SDM Diversity Antenna WF2a (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 97)



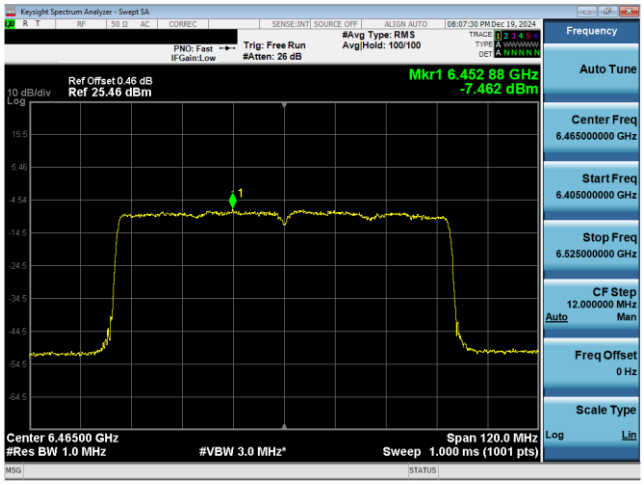
Plot 7-522. PSD Plot SDM Diversity Antenna WF7b (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 97)



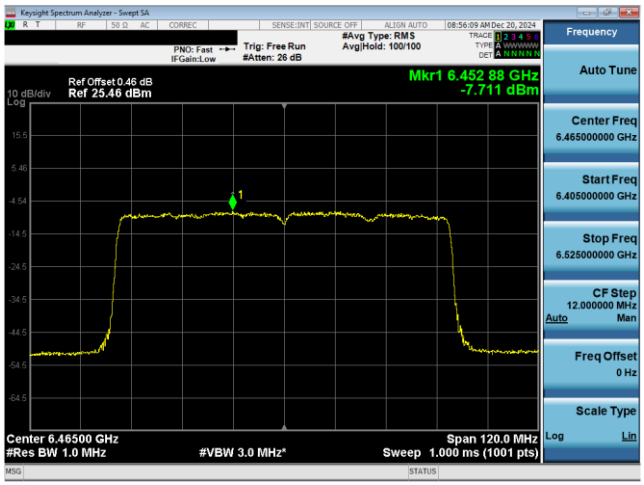
Plot 7-523. PSD Plot SDM Diversity Antenna WF2a (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



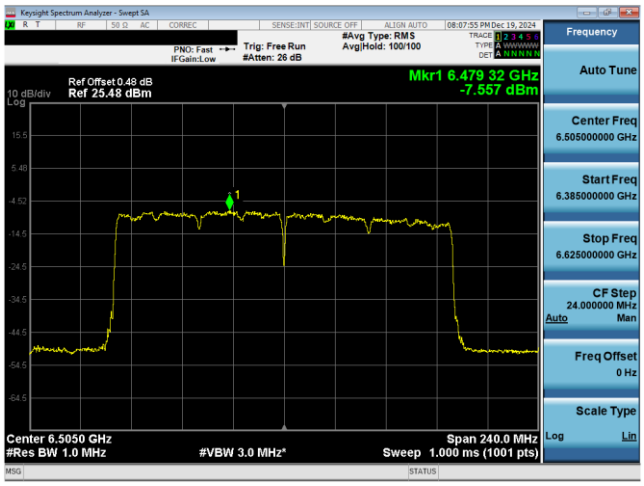
Plot 7-524. PSD Plot SDM Diversity Antenna WF7b (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



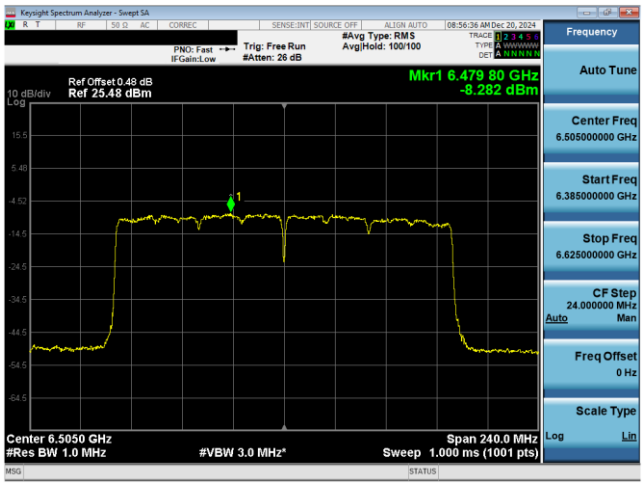
Plot 7-525. PSD Plot SDM Diversity Antenna WF2a (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



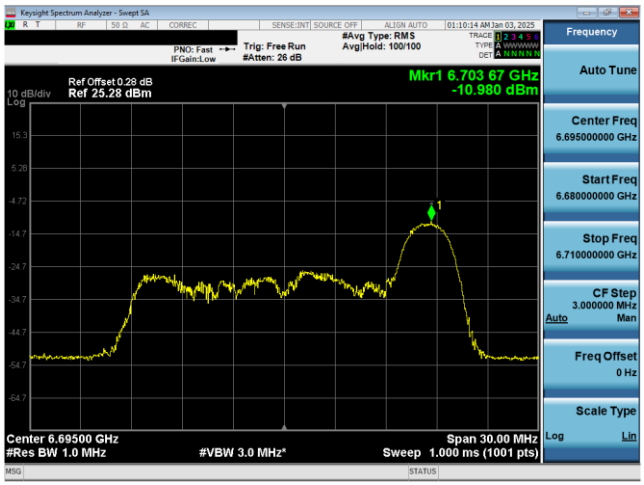
Plot 7-526. PSD Plot SDM Diversity Antenna WF7b (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



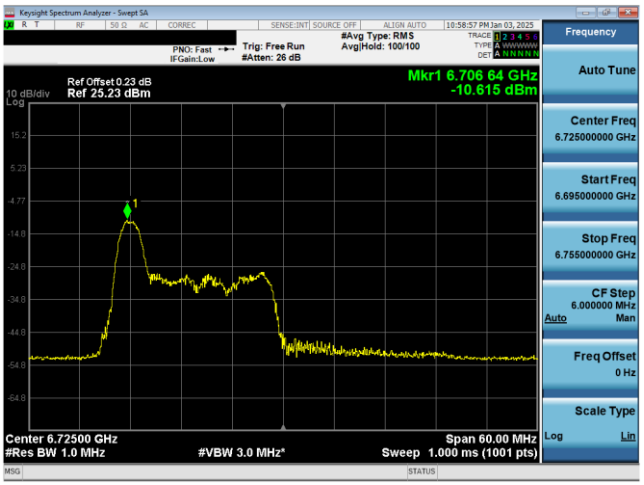
Plot 7-527. PSD Plot SDM Diversity Antenna WF2a (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



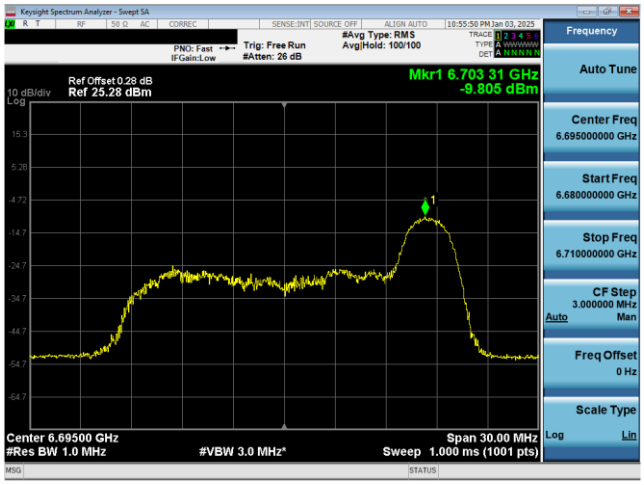
Plot 7-528. PSD Plot SDM Diversity Antenna WF7b (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



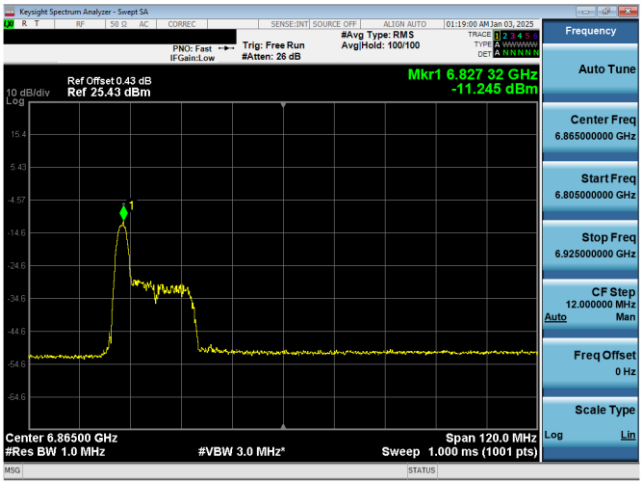
Plot 7-529. PSD Plot SDM Diversity Antenna WF2a (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



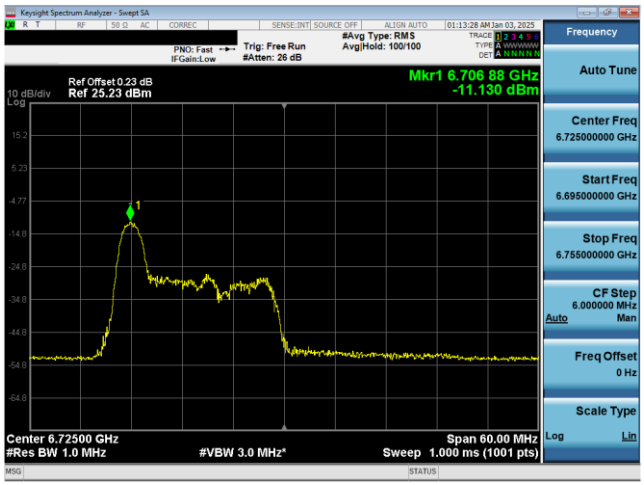
Plot 7-532. PSD Plot SDM Diversity Antenna WF7b (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 155)



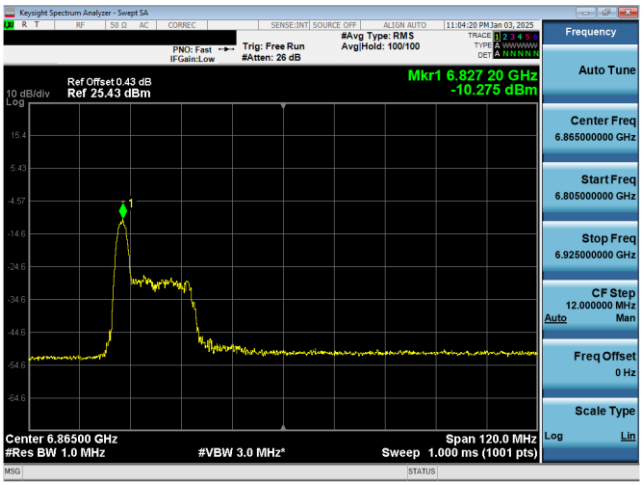
Plot 7-530. PSD Plot SDM Diversity Antenna WF7b (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



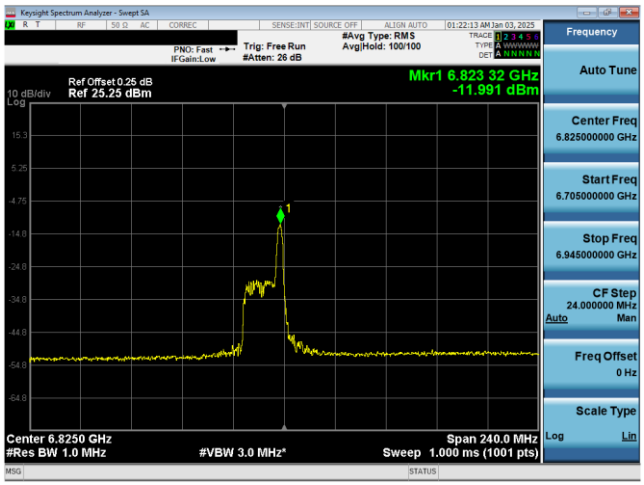
Plot 7-533. PSD Plot SDM Diversity Antenna WF2a (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 183)



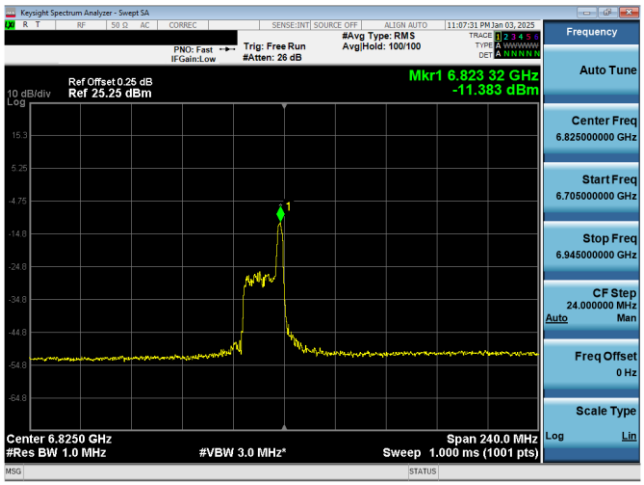
Plot 7-531. PSD Plot SDM Diversity Antenna WF2a (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 155)



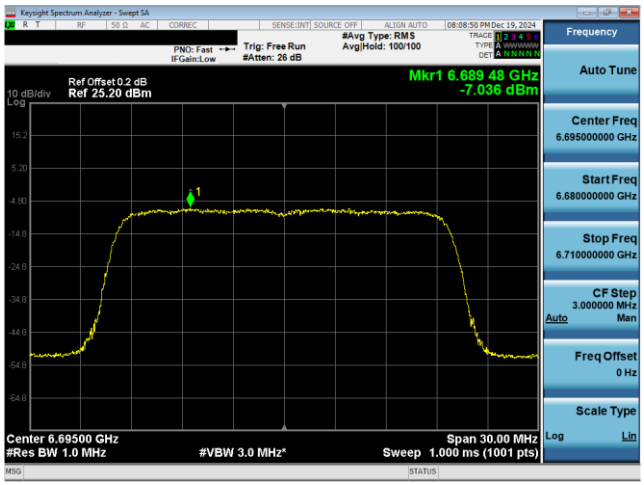
Plot 7-534. PSD Plot SDM Diversity Antenna WF7b (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 183)



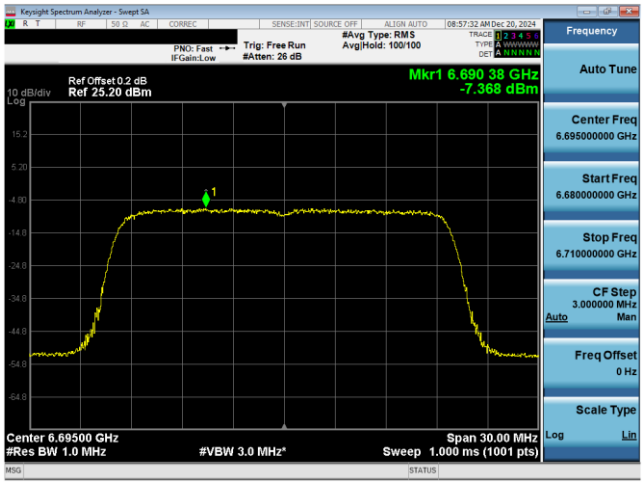
Plot 7-535. PSD Plot SDM Diversity Antenna WF2a (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 175)



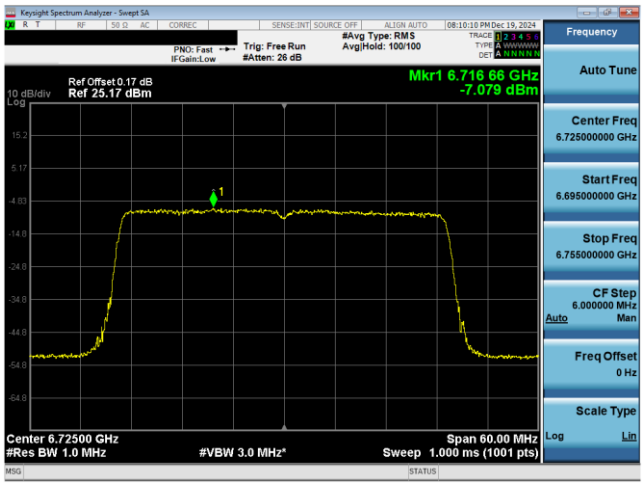
Plot 7-536. PSD Plot SDM Diversity Antenna WF7b (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 175)



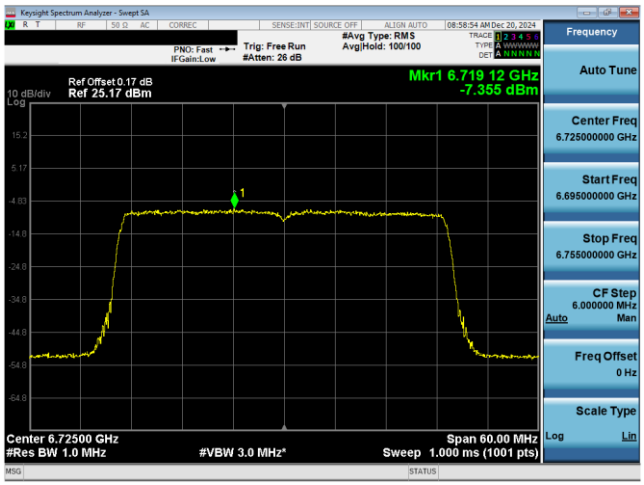
Plot 7-537. PSD Plot SDM Diversity Antenna WF2a (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



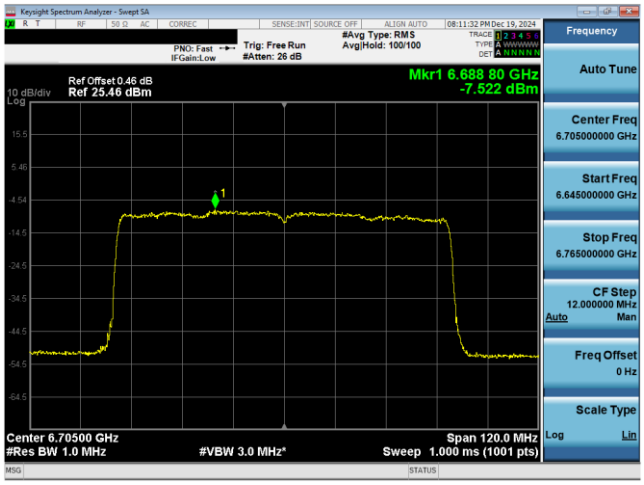
Plot 7-538. PSD Plot SDM Diversity Antenna WF7b (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



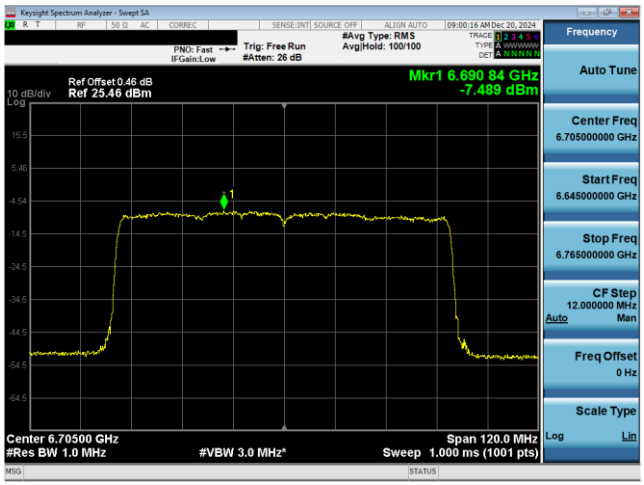
Plot 7-539. PSD Plot SDM Diversity Antenna WF2a (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 155)



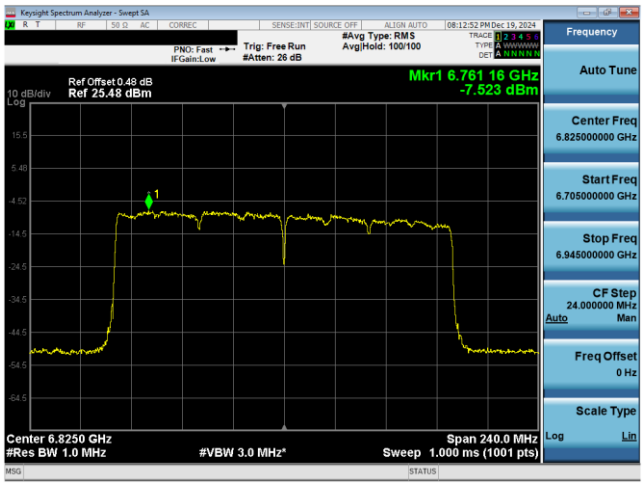
Plot 7-540. PSD Plot SDM Diversity Antenna WF7b (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 155)



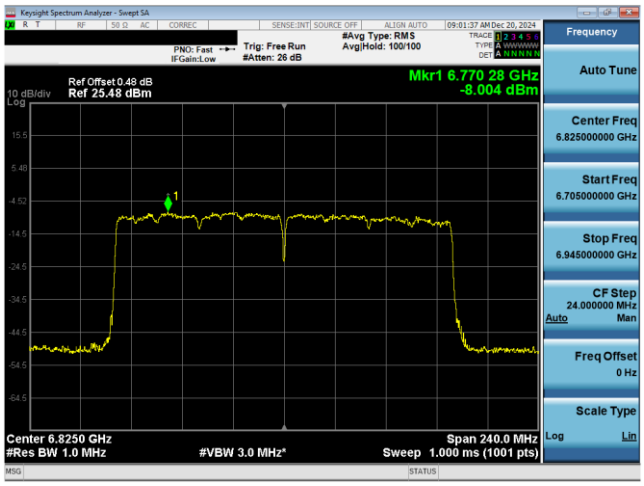
Plot 7-541. PSD Plot SDM Diversity Antenna WF2a (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



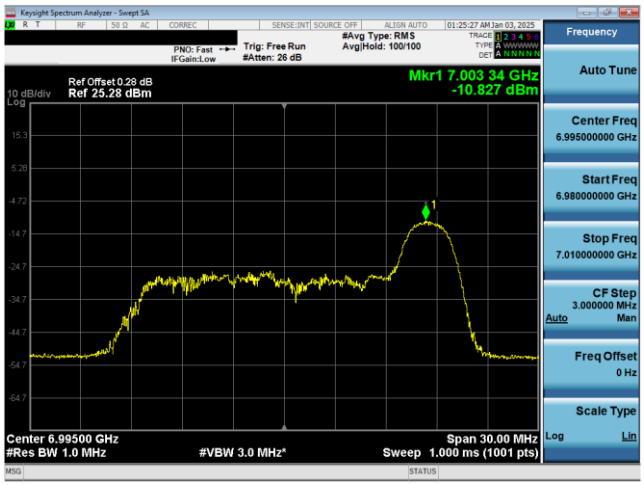
Plot 7-542. PSD Plot SDM Diversity Antenna WF7b (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



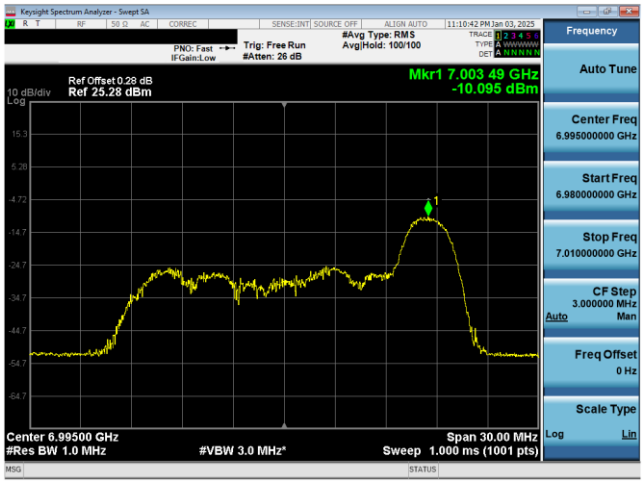
Plot 7-543. PSD Plot SDM Diversity Antenna WF2a (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 175)



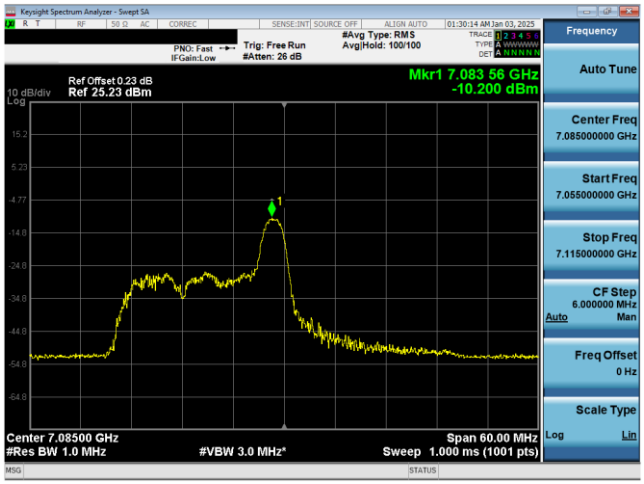
Plot 7-544. PSD Plot SDM Diversity Antenna WF7b (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 175)



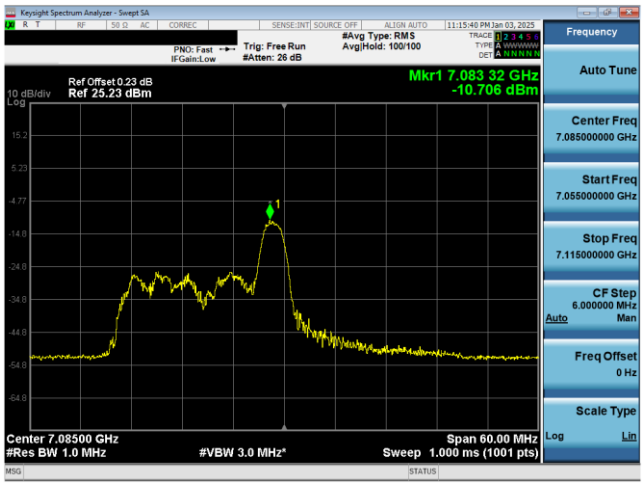
Plot 7-545. PSD Plot SDM Diversity Antenna WF2a (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 209)



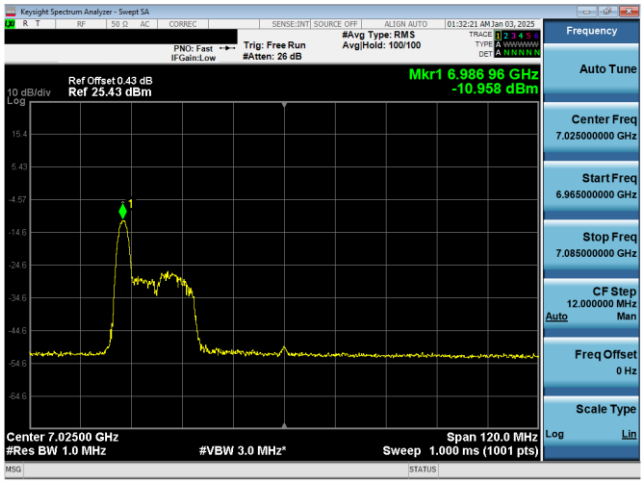
Plot 7-546. PSD Plot SDM Diversity Antenna WF7b (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 209)



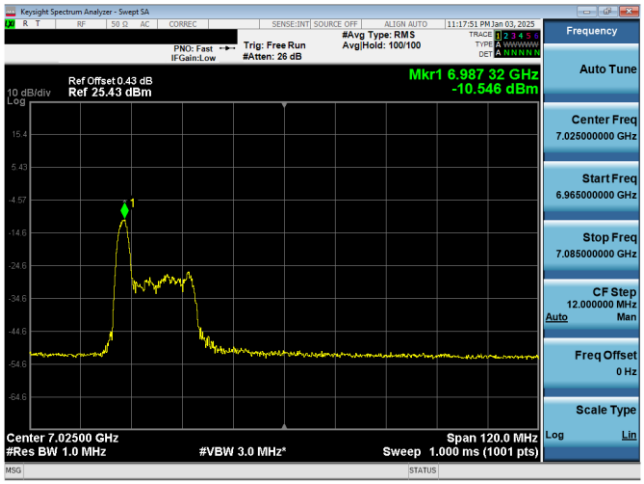
Plot 7-547. PSD Plot SDM Diversity Antenna WF2a (40MHz 802.11ax RU26 (UNII Band 8) – Ch. 227)



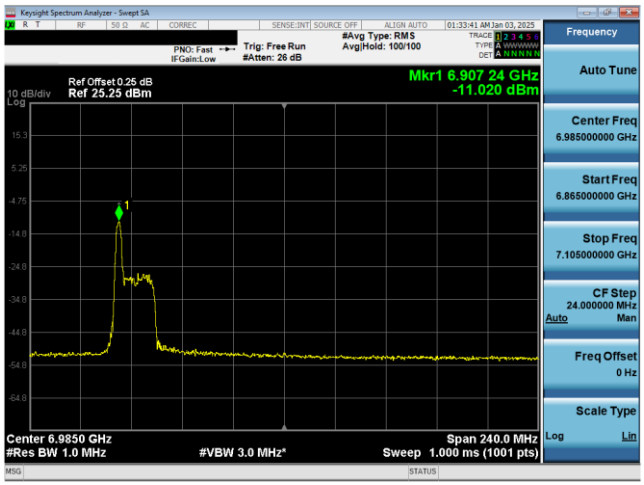
Plot 7-548. PSD Plot SDM Diversity Antenna WF7b (40MHz 802.11ax RU26 (UNII Band 8) – Ch. 227)



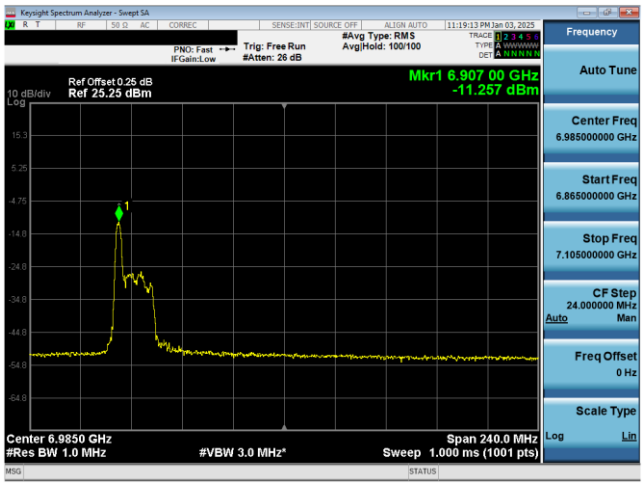
Plot 7-549. PSD Plot SDM Diversity Antenna WF2a (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 215)



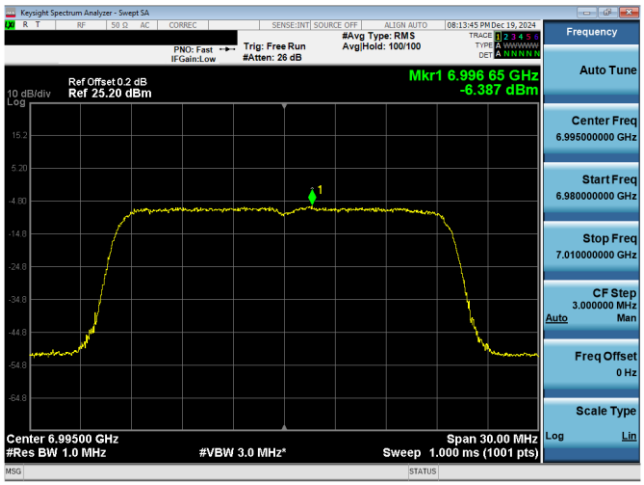
Plot 7-550. PSD Plot SDM Diversity Antenna WF7b (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 215)



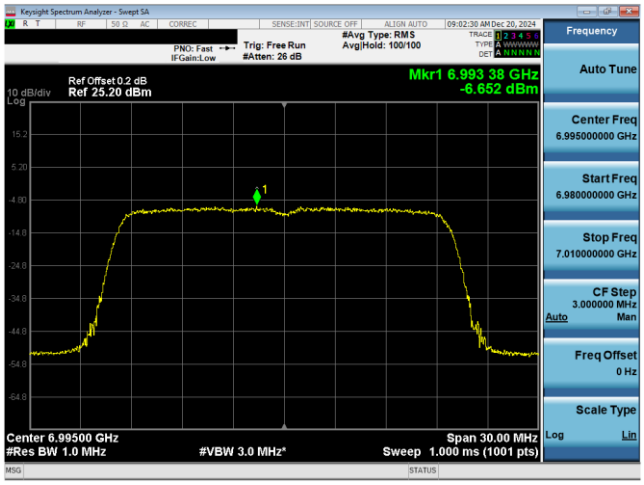
Plot 7-551. PSD Plot SDM Diversity Antenna WF2a (160MHz 802.11ax RU26 (UNII Band 8) – Ch. 207)



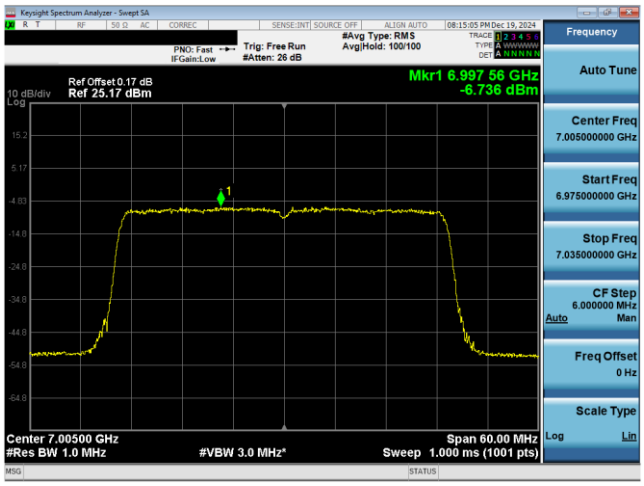
Plot 7-552. PSD Plot SDM Diversity Antenna WF7b (160MHz 802.11ax RU26 (UNII Band 8) – Ch. 207)



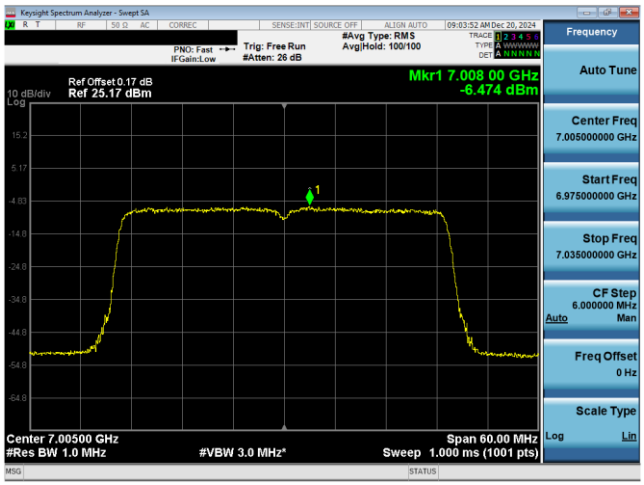
Plot 7-553. PSD Plot SDM Diversity Antenna WF2a (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 209)



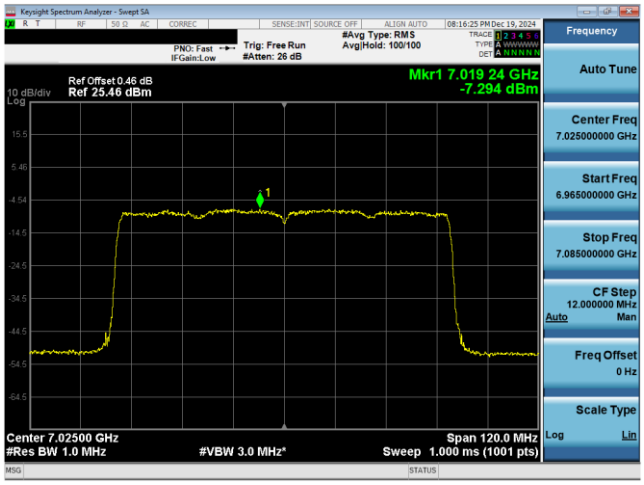
Plot 7-554. PSD Plot SDM Diversity Antenna WF7b (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 209)



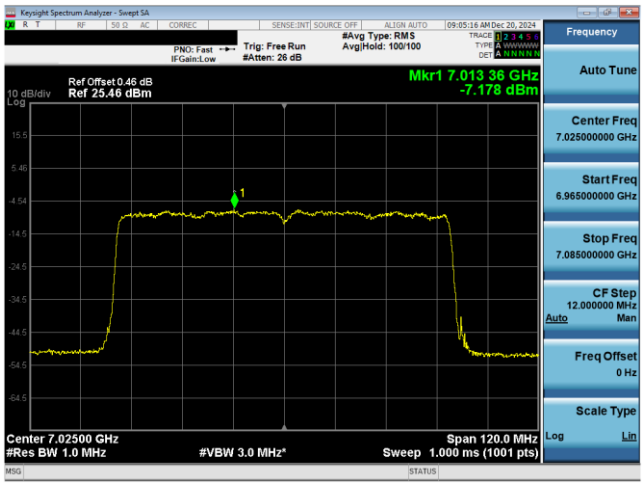
Plot 7-555. PSD Plot SDM Diversity Antenna WF2a (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 211)



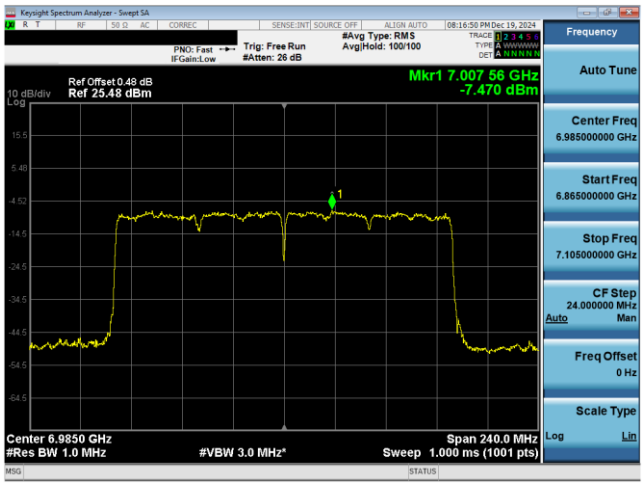
Plot 7-556. PSD Plot SDM Diversity Antenna WF7b (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 211)



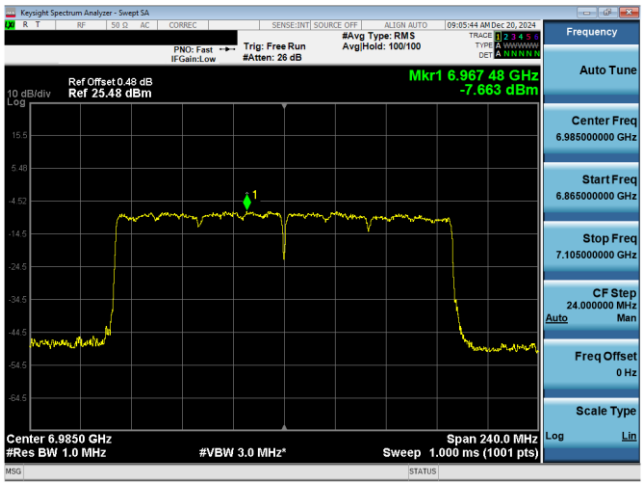
Plot 7-557. PSD Plot SDM Diversity Antenna WF2a (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



Plot 7-558. PSD Plot SDM Diversity Antenna WF7b (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



Plot 7-559. PSD Plot SDM Diversity Antenna WF2a (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)



Plot 7-560. PSD Plot SDM Diversity Antenna WF7b (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna WF7a and Antenna WF2a were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT}, the total number of antennas used.

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

Per ANSI C63.10-2020 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT}, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \ldots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

Sample CDD/SDM Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be (-11.72) dBm for Antenna WF7a and (-12.07) dBm for Antenna WF2a.

Antenna WF7a + Antenna WF2a = SDM

((-11.72) dBm + (-12.07) dBm) = (0.067 mW + 0.062 mW) = 0.129 mW = -8.88 dBm

Sample e.i.r.p. Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average SDM power density was calculated to be (-8.88) dBm with directional gain of 1.81 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

(-8.88) dBm + 1.81 dBi = -7.07 dBm

7.5 In-Band Emissions

§15.407(b)(7), RSS-248 [4.6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

For transmitters operating solely in the 5.925-7.125 GHz bands: 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.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2
KDB 987594 D02 v03 – Section J

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10-2020.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10-2020. (This will be used to determine the channel edge.)
4. 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.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. 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:
    i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
    j) Suppressed by 28 dB at one channel bandwidth from the channel center.
    k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

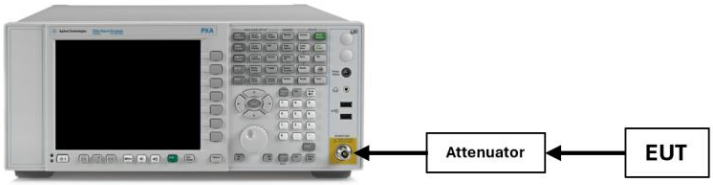


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All RU's were investigated and only worst case partially loaded and fully loaded RU's were reported.
2. Low, mid, and high channels were tested and in-band emission for only worst case GEM channel plots have been reported.

7.5.1 Antenna WF7a In-Band Emission Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 5	5935	1	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	0	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	18	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	36	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

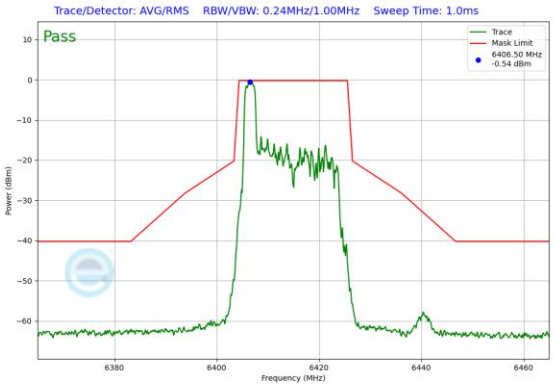
Table 7-167. In-Band Emission Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 7	6535	117	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

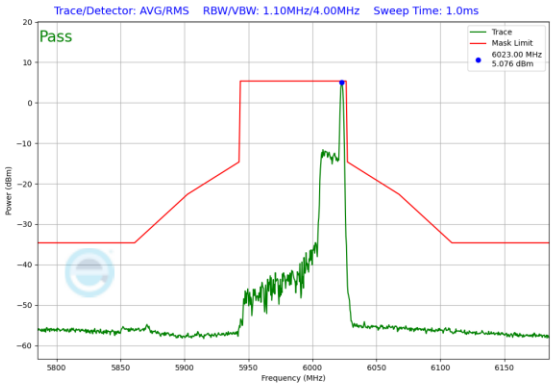
Table 7-168. In-Band Emission Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 5	5935	1	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6175	45	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	5965	3	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	43	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	5985	7	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6025	15	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6181	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6465	103	ax (80Mhz)	996	67	510.4/600.5 (MCS11)	Pass
	6505	111	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 7	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6875	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6545	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6865	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass

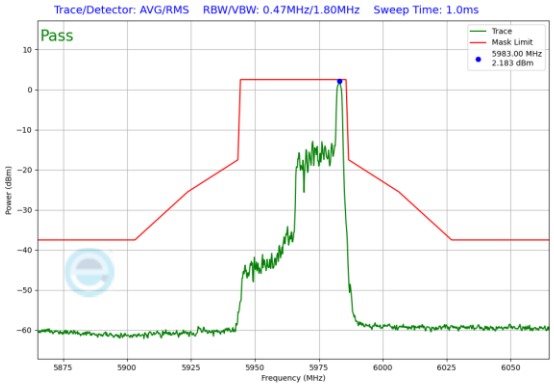
Table 7-169. In-Band Emission Measurements Antenna WF7a (Fully – Loaded RU)



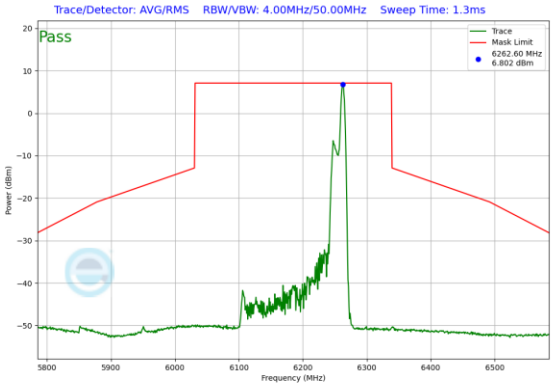
Plot 7-561. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 93)



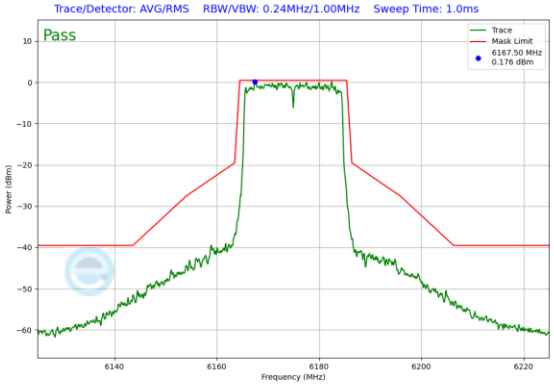
Plot 7-563. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 7)



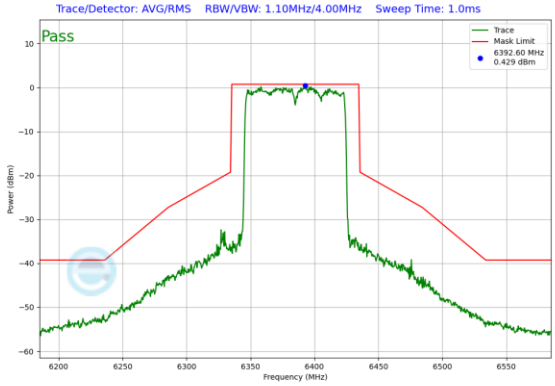
Plot 7-562. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 3)



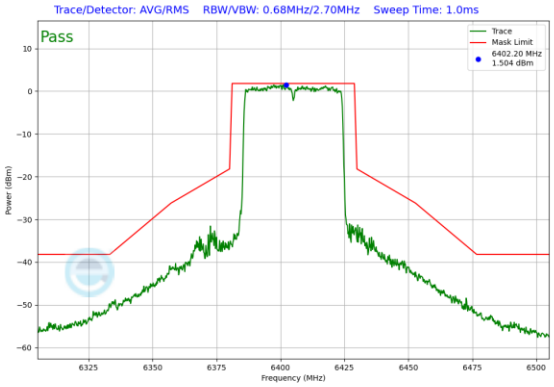
Plot 7-564. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 47)



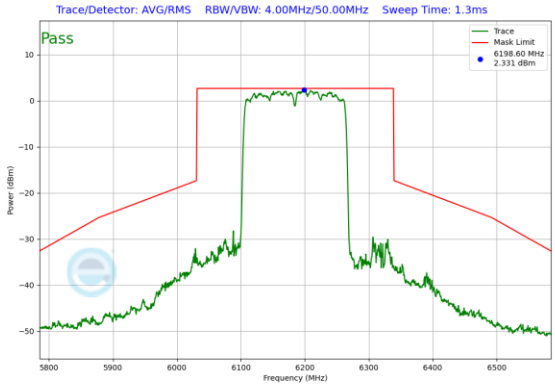
Plot 7-565. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



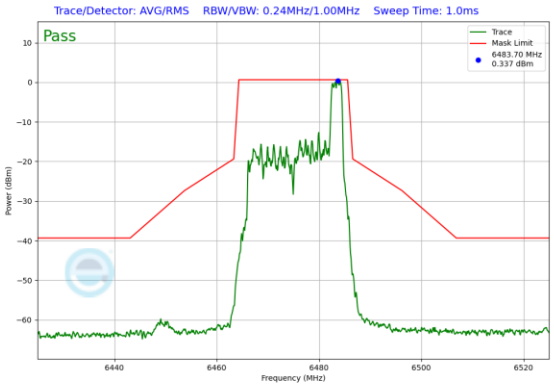
Plot 7-567. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



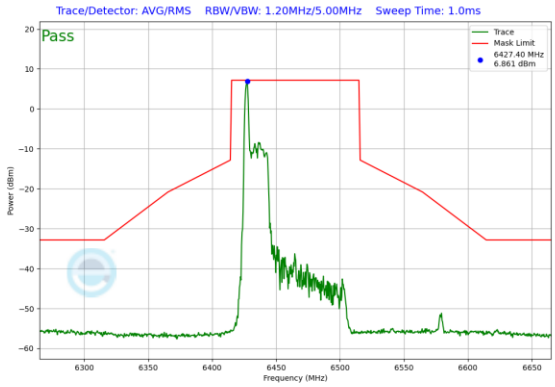
Plot 7-566. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 91)



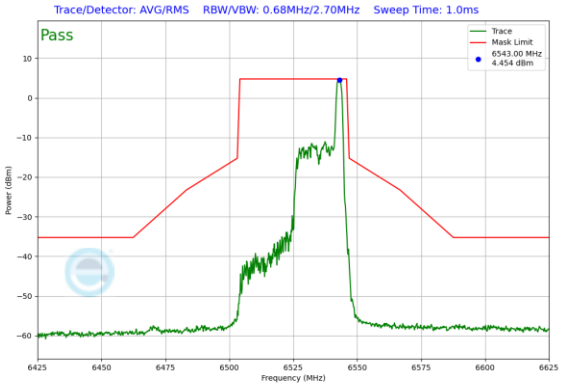
Plot 7-568. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



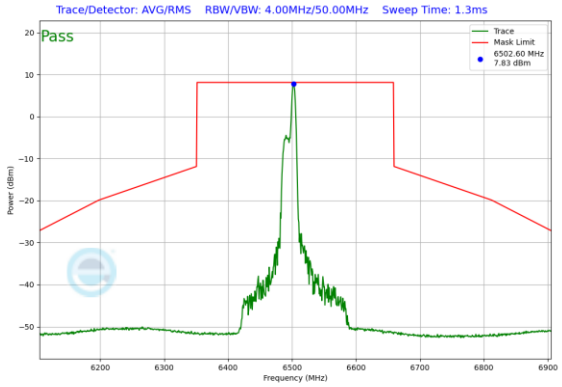
Plot 7-569. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 105)



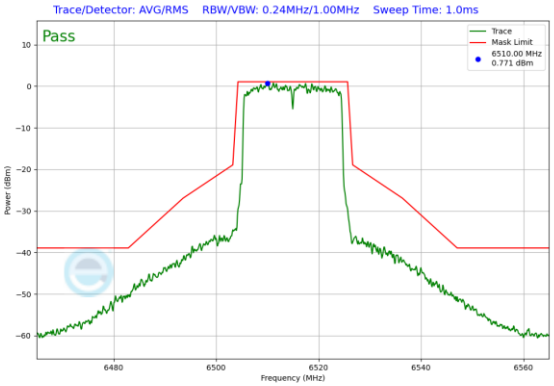
Plot 7-571. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



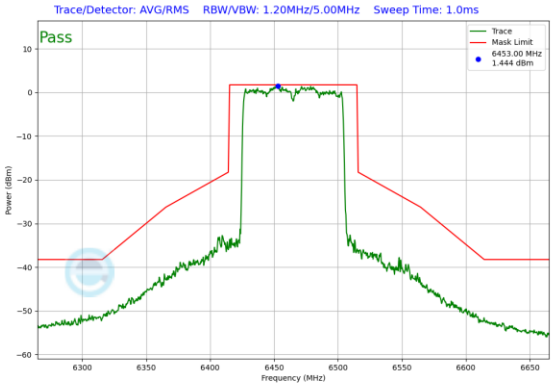
Plot 7-570. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 115)



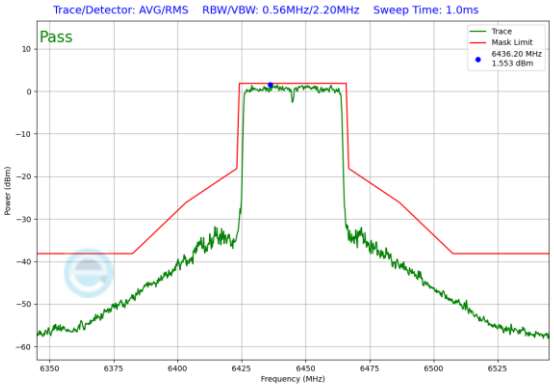
Plot 7-572. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



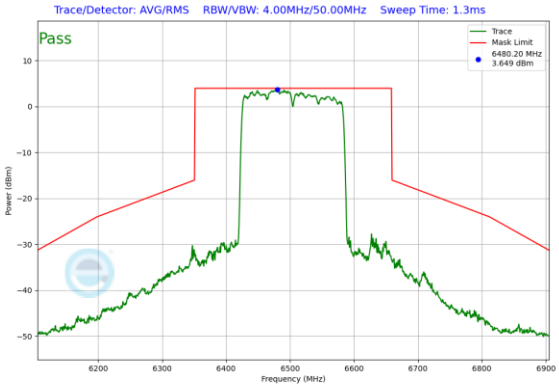
Plot 7-573. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 113)



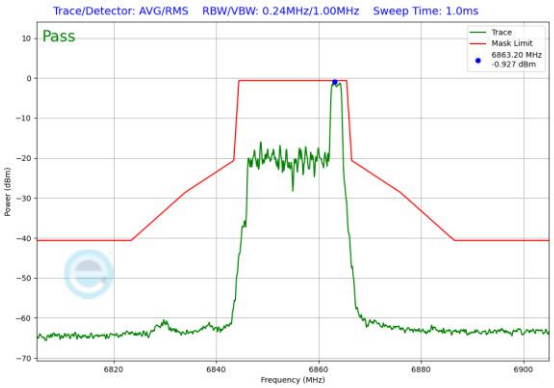
Plot 7-575. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



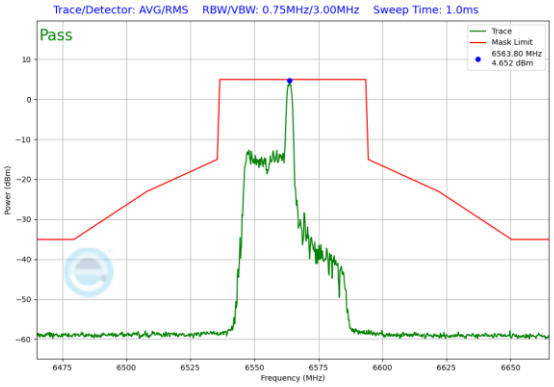
Plot 7-574. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



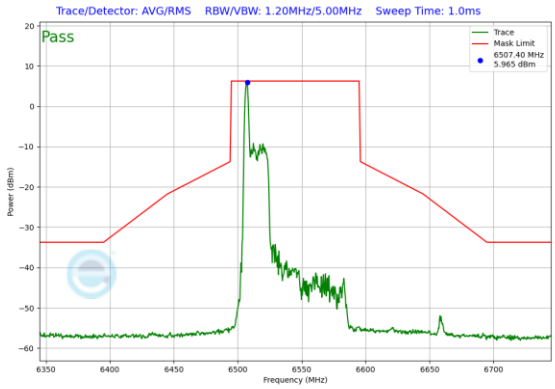
Plot 7-576. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



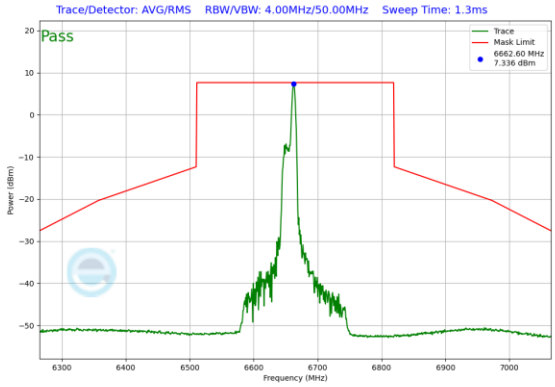
Plot 7-577. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 181)



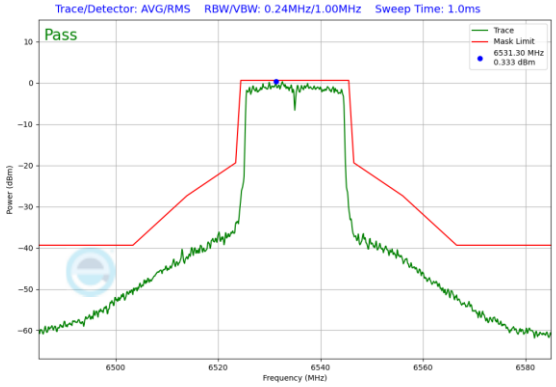
Plot 7-578. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 123)



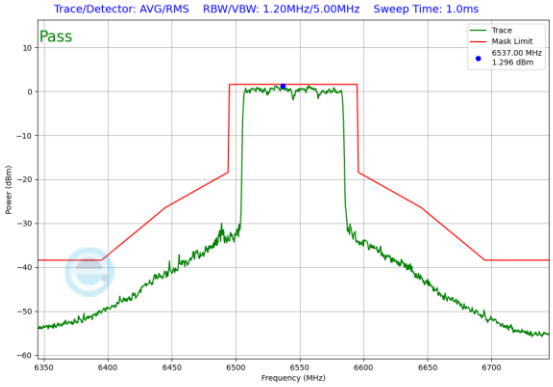
Plot 7-579. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 119)



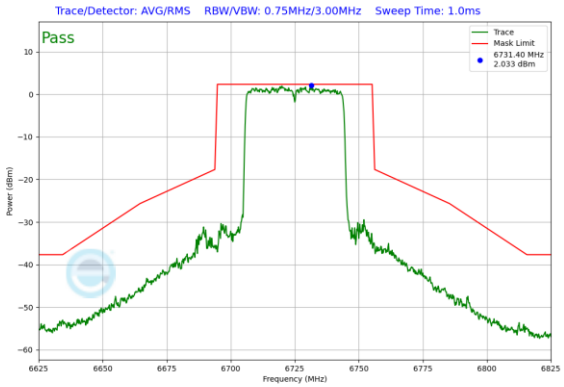
Plot 7-580. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



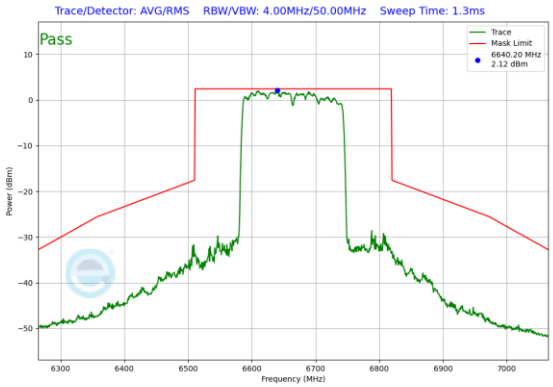
Plot 7-581. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 117)



Plot 7-583. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 119)



Plot 7-582. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 155)



Plot 7-584. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

7.5.2 Antenna WF7a In-Band Emission Measurements – LPI

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 5	5935	1	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6025	15 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6025		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6025	15 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6185	47 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6185		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6185	47 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6345	79 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6345	79 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	0	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	18	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	36	12.5/14.7 (MCS11)	Pass
	6505	111 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6505		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6505	111 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

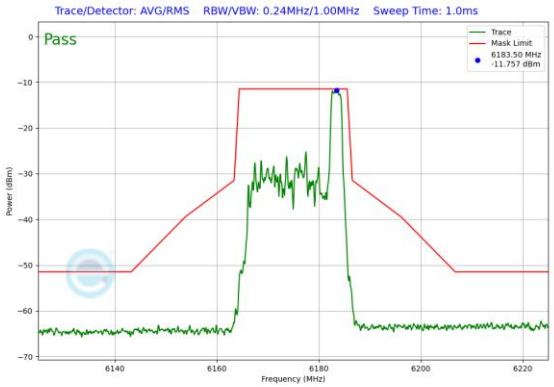
Table 7-170. In-Band Emission Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 7	6535	117	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6875	185	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6875	185	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6875	185	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6865	183	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6865	183	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6865	183	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6665	143 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6665		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6665	143 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6825	175 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6825		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6825	175 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
Band 8	6895	189	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6895	189	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6895	189	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6995	209	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6995	209	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6995	209	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	7095	229	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	7095	229	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	7095	229	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6885	187	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6885	187	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6885	187	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	7005	211	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	7005	211	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	7005	211	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	7085	227	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	7085	227	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	7085	227	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6945	199	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6945	199	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6945	199	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	7025	215	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	7025	215	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	7025	215	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6985	207 (L)	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6985		ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6985	207 (U)	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

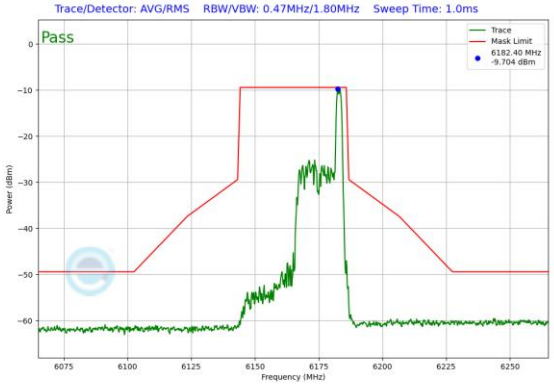
Table 7-171. In-Band Emission Measurements Antenna WF7a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF7a In-Band Emission
Band 5	5935	1	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6175	45	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	5965	3	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	43	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	5985	7	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6025	15	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6185	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6465	103	ax (80Mhz)	996	67	510.4/600.5 (MCS11)	Pass
	6505	111	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 7	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6875	185	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6865	183	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6825	175	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 8	6895	189	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6995	209	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	7115	229	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6885	187	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	7005	211	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	7085	227	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6945	199	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	7025	215	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6985	207	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass

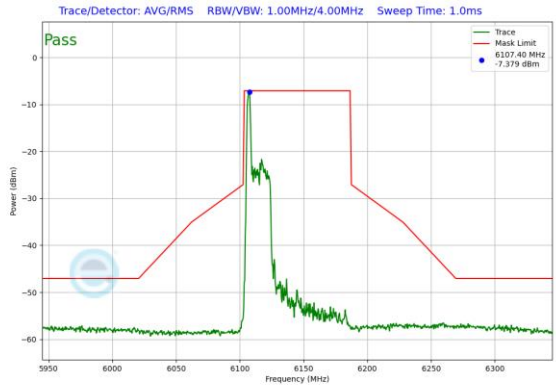
Table 7-172. In-Band Emission Measurements Antenna WF7a (Fully – Loaded RU)



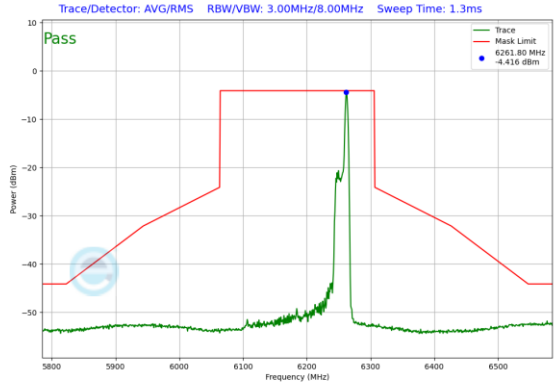
Plot 7-585. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



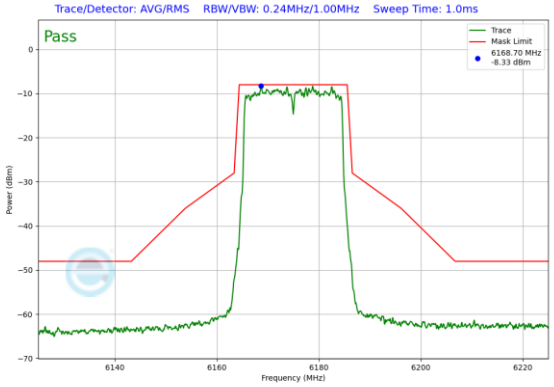
Plot 7-586. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 43)



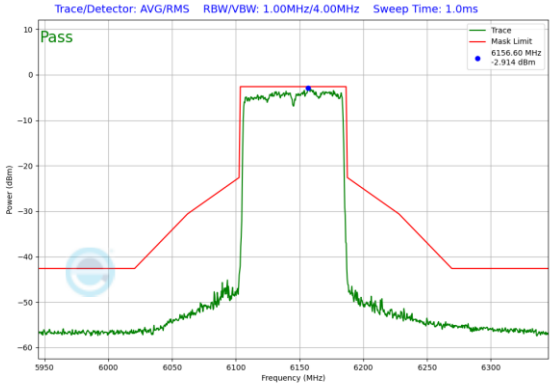
Plot 7-587. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



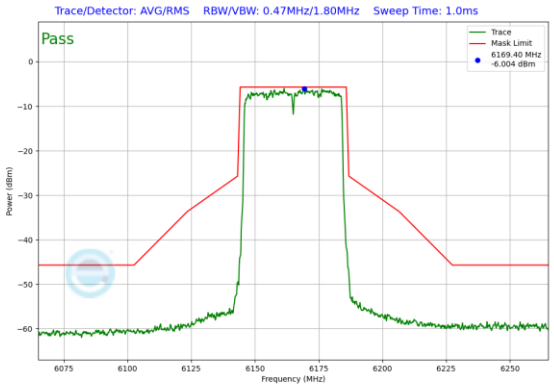
Plot 7-588. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 47)



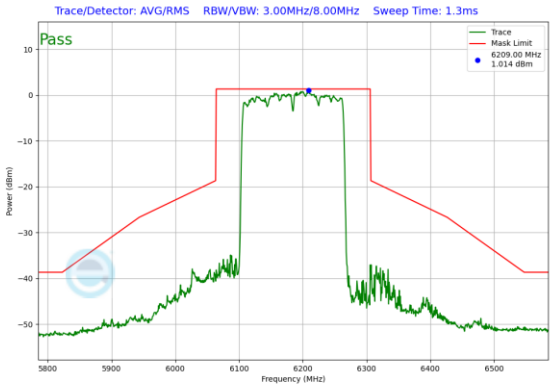
Plot 7-589. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 5) – Ch45)



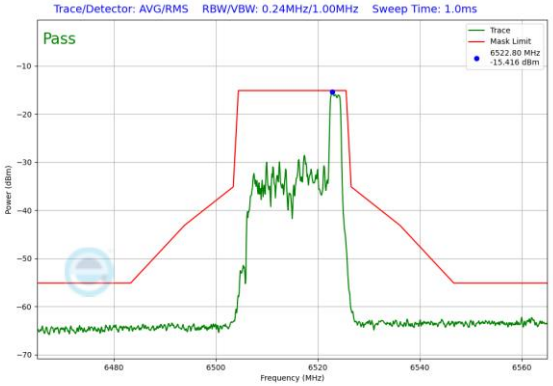
Plot 7-591. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 39)



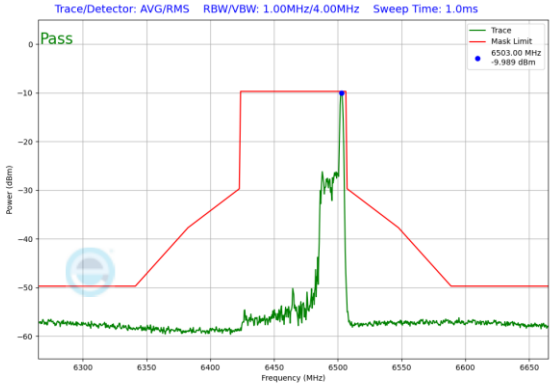
Plot 7-590. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 43)



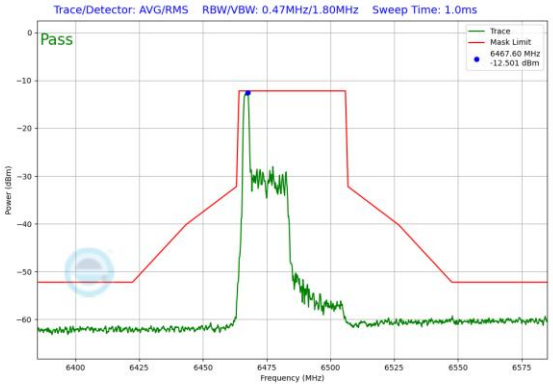
Plot 7-592. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



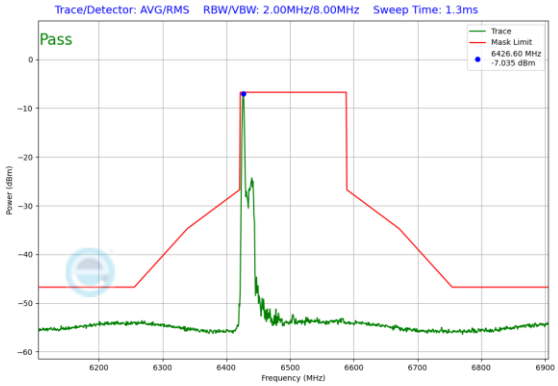
Plot 7-593. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



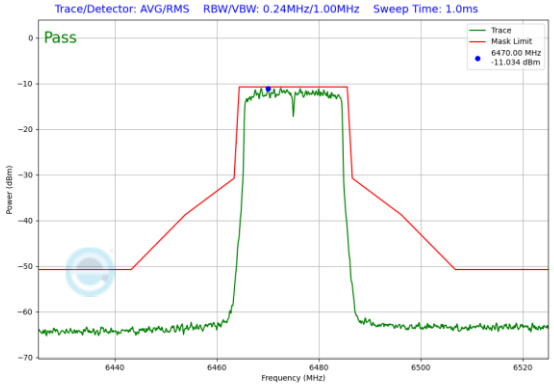
Plot 7-595. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



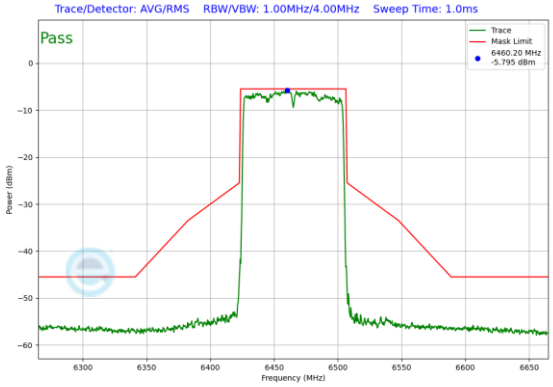
Plot 7-594. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 107)



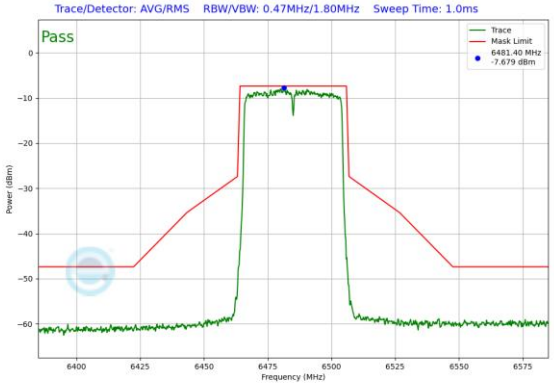
Plot 7-596. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



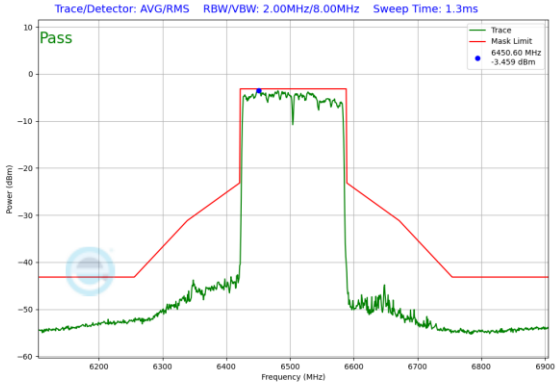
Plot 7-597. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 105)



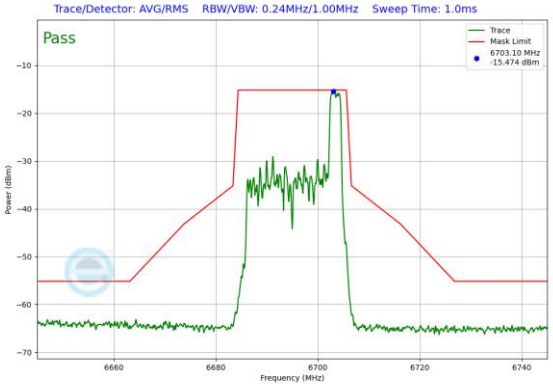
Plot 7-599. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



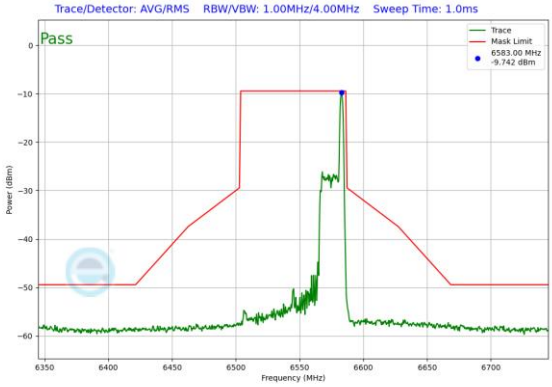
Plot 7-598. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 107)



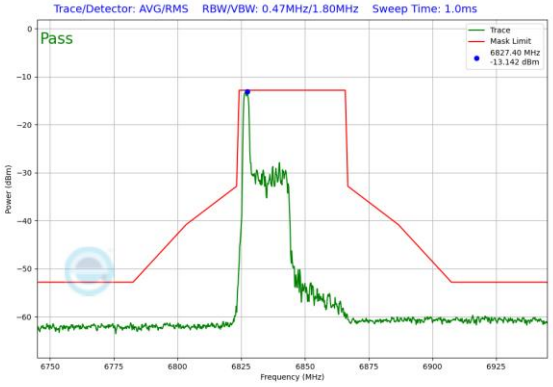
Plot 7-600. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



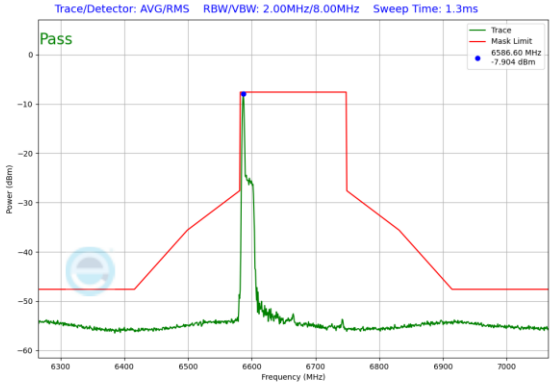
Plot 7-601. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



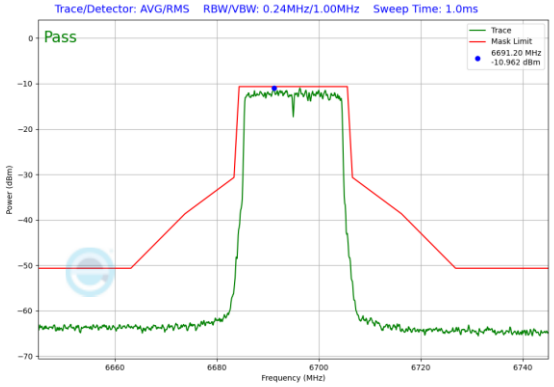
Plot 7-603. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 119)



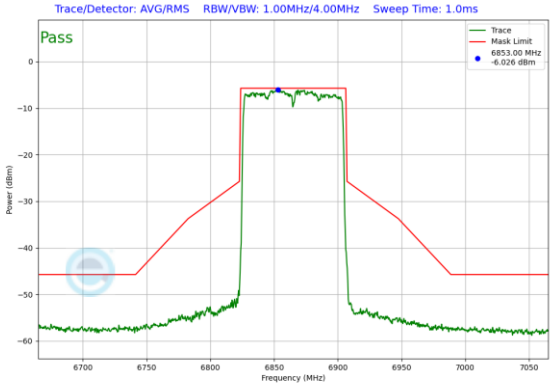
Plot 7-602. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 179)



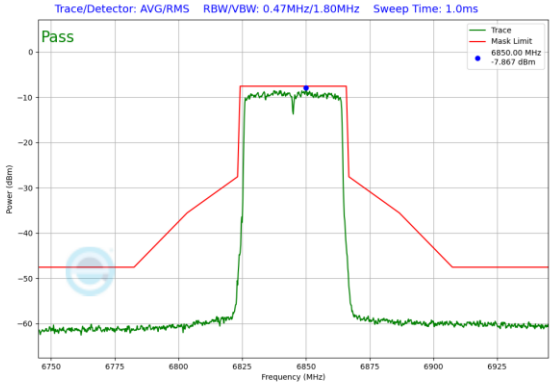
Plot 7-604. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



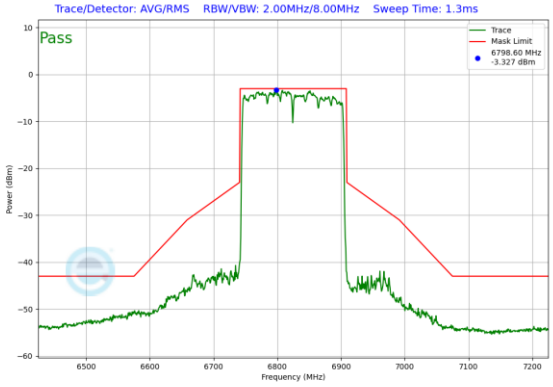
Plot 7-605. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



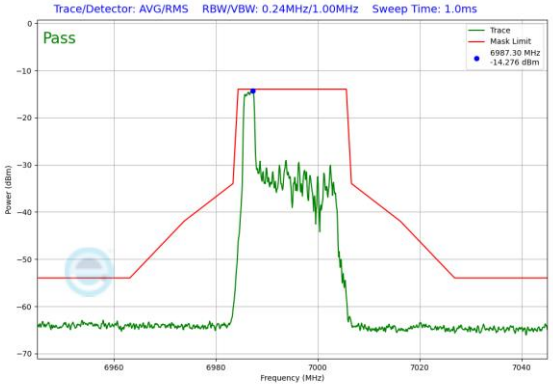
Plot 7-607. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 183)



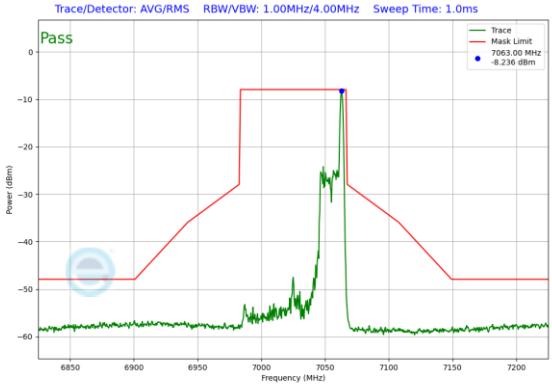
Plot 7-606. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



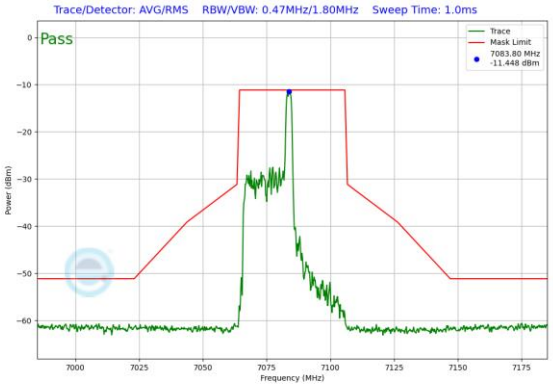
Plot 7-608. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 175)



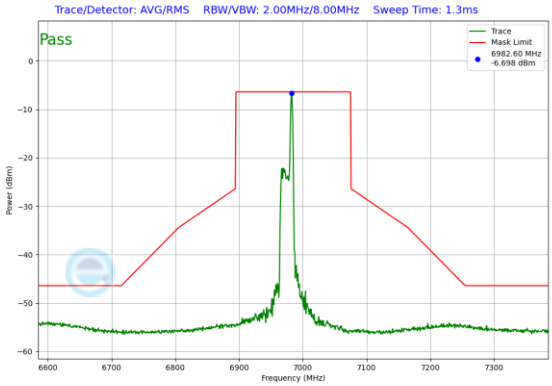
Plot 7-609. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 209)



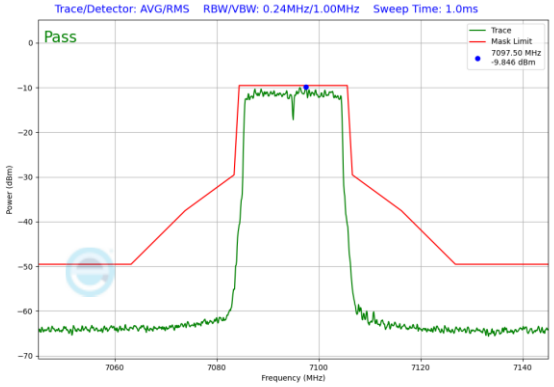
Plot 7-611. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 215)



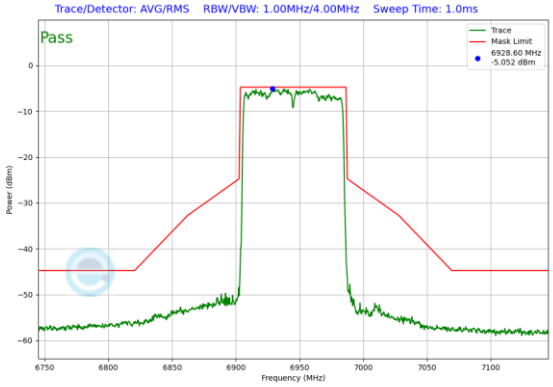
Plot 7-610. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU26 (UNII Band 8) – Ch. 227)



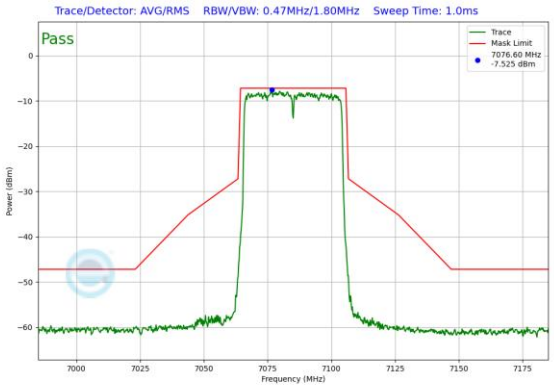
Plot 7-612. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU26 (UNII Band 8) – Ch. 207)



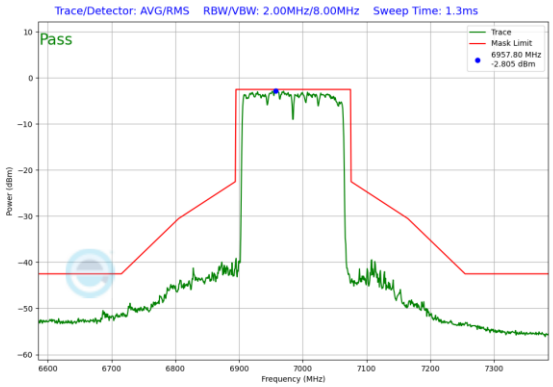
Plot 7-613. In-Band Emission Plot Antenna WF7a (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 229)



Plot 7-615. In-Band Emission Plot Antenna WF7a (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 199)



Plot 7-614. In-Band Emission Plot Antenna WF7a (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 227)



Plot 7-616. In-Band Emission Plot Antenna WF7a (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

7.5.3 Antenna WF2a In-Band Emission Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF2a In-Band Emission
Band 5	5935	1	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	5935	1	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6175	45	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6415	93	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	5965	3	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	43	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6165	91	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	5985	7	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6145	39	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6385	87	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6025	15	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6181	47	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6345	79	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6345	97	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6475	105	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6515	113	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6445	99	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6485	107	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6525	115	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	0	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	18	12.5/14.7 (MCS11)	Pass
	6465	103	ax (80Mhz)	26	36	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6505	111	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

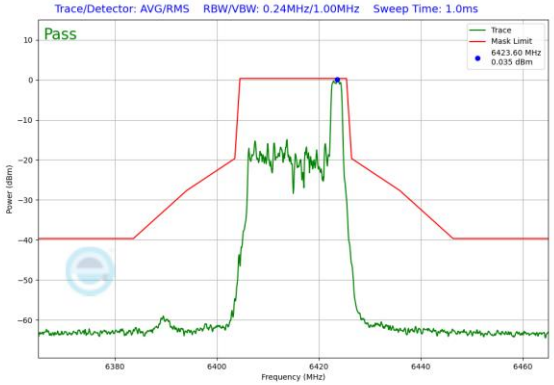
Table 7-173. In-Band Emission Measurements Antenna WF2a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF2a In-Band Emission
Band 7	6535	117	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6535	117	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6695	149	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	4	12.5/14.7 (MCS11)	Pass
	6875	181	ax (20MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6565	123	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6725	155	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	8	12.5/14.7 (MCS11)	Pass
	6845	179	ax (40MHz)	26	17	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6545	119	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6545	135	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6705	151	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6865	167	ax (80MHz)	26	36	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	0	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	18	12.5/14.7 (MCS11)	Pass
	6665	143	ax (160MHz)	26	36	12.5/14.7 (MCS11)	Pass

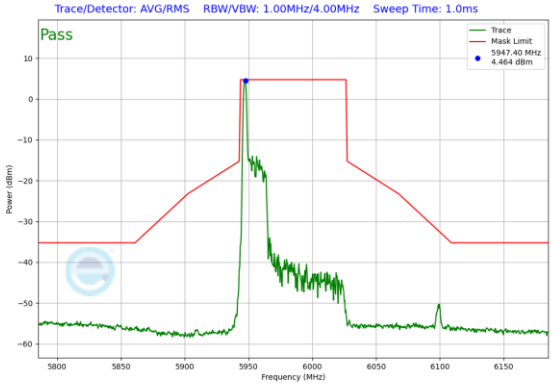
Table 7-174. In-Band Emission Measurements Antenna WF2a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Antenna WF2a In-Band Emission
Band 5	5935	1	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6175	45	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	5965	3	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	43	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6165	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	5985	7	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6025	15	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6181	47	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
	6345	79	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 6	6345	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6465	103	ax (80Mhz)	996	67	510.4/600.5 (MCS11)	Pass
	6505	111	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass
Band 7	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6875	181	ax (20MHz)	242	61	121.9/143.4 (MCS11)	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	Pass
	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6545	135	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6865	167	ax (80MHz)	996	67	510.4/600.5 (MCS11)	Pass
	6665	143	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	Pass

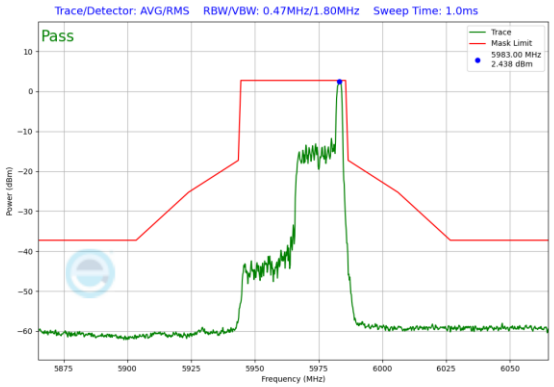
Table 7-175. In-Band Emission Measurements Antenna WF2a (Fully – Loaded RU)



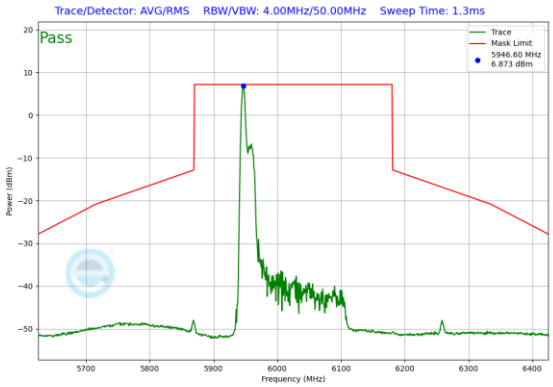
Plot 7-617. In-Band Emission Plot Antenna WF2a (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 93)



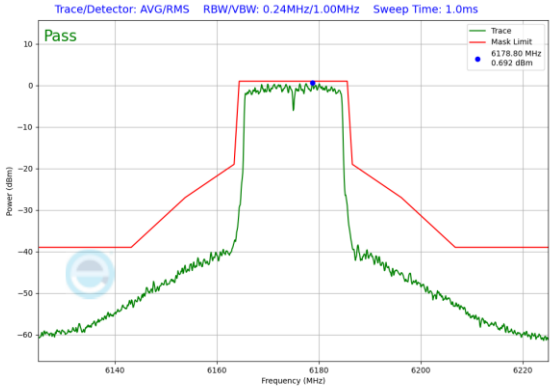
Plot 7-619. In-Band Emission Plot Antenna WF2a (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 7)



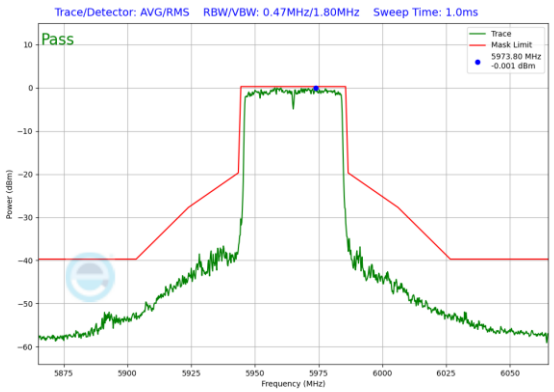
Plot 7-618. In-Band Emission Plot Antenna WF2a (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 3)



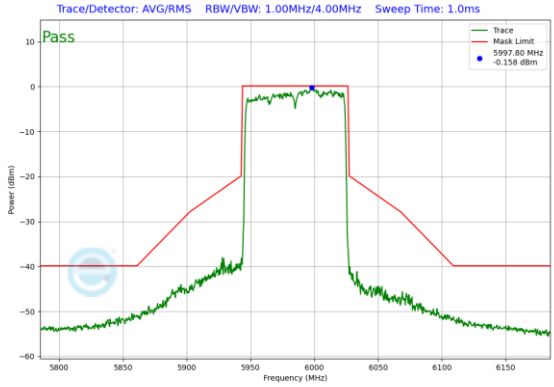
Plot 7-620. In-Band Emission Plot Antenna WF2a (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 15)



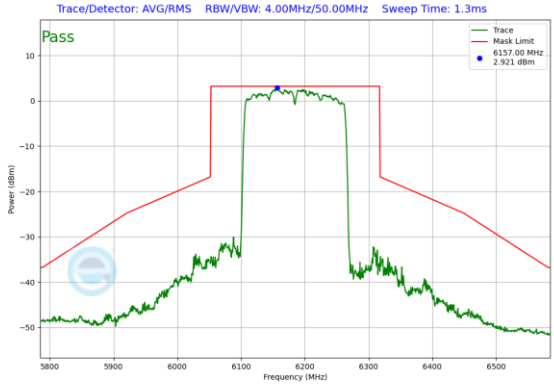
Plot 7-621. In-Band Emission Plot Antenna WF2a (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



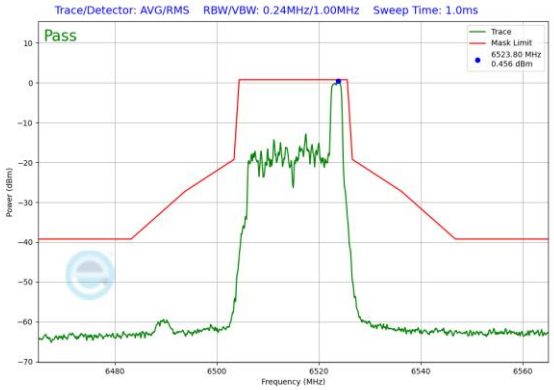
Plot 7-622. In-Band Emission Plot Antenna WF2a (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 3)



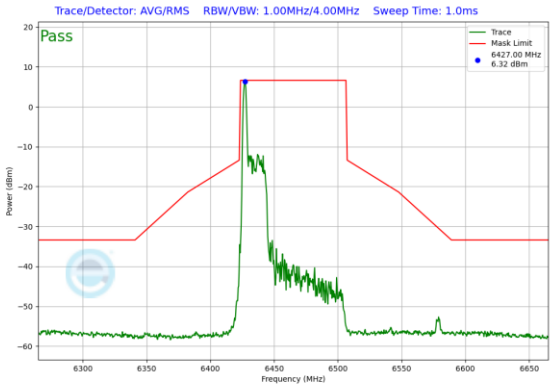
Plot 7-623. In-Band Emission Plot Antenna WF2a (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 7)



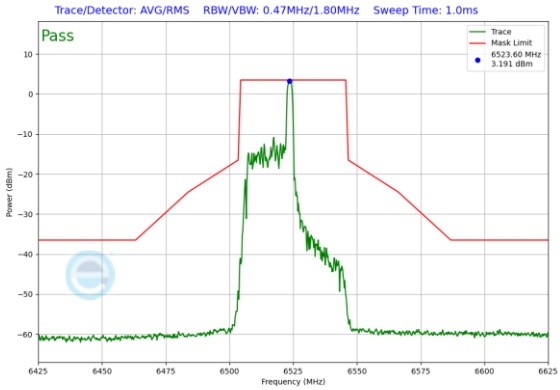
Plot 7-624. In-Band Emission Plot Antenna WF2a (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



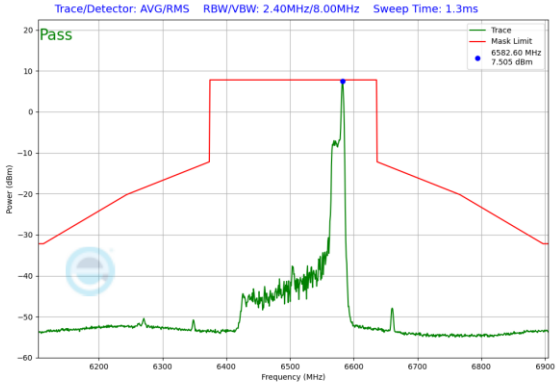
Plot 7-625. In-Band Emission Plot Antenna WF2a (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



Plot 7-627. In-Band Emission Plot Antenna WF2a (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



Plot 7-626. In-Band Emission Plot Antenna WF2a (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 115)



Plot 7-628. In-Band Emission Plot Antenna WF2a (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)