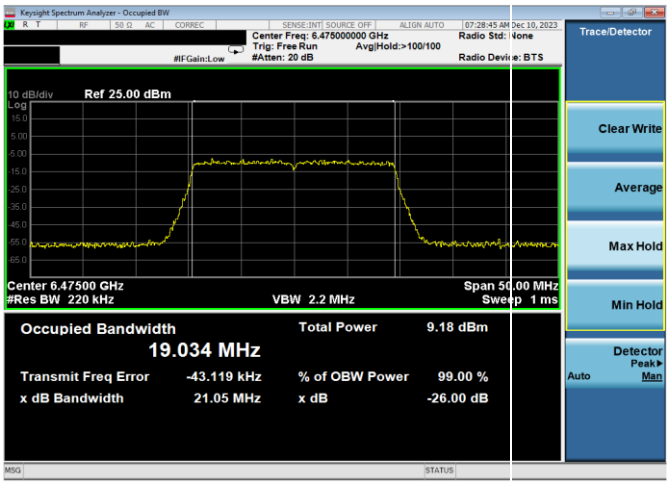
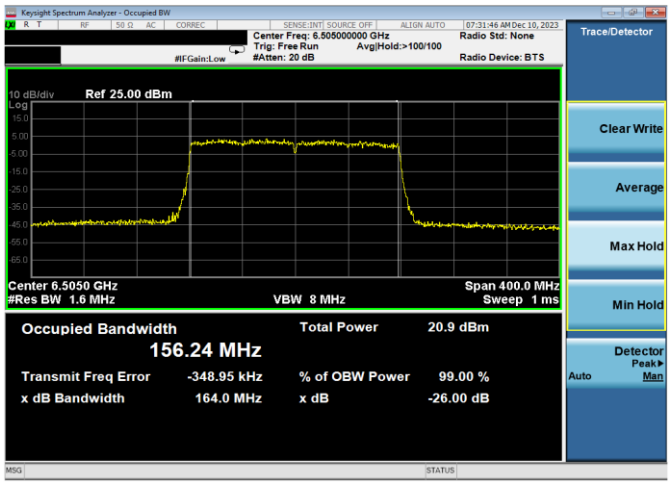
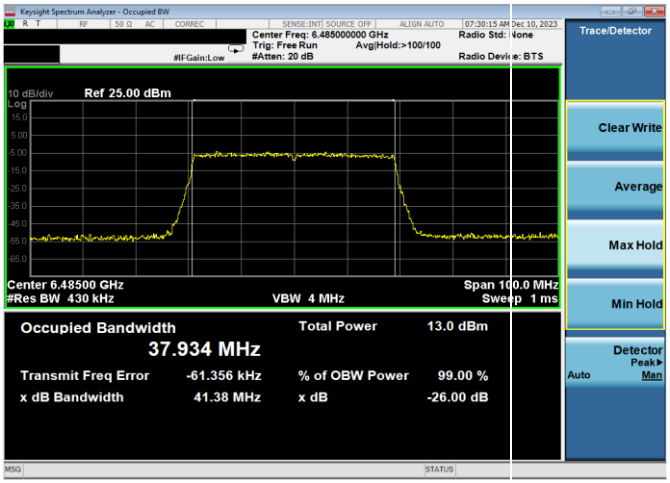


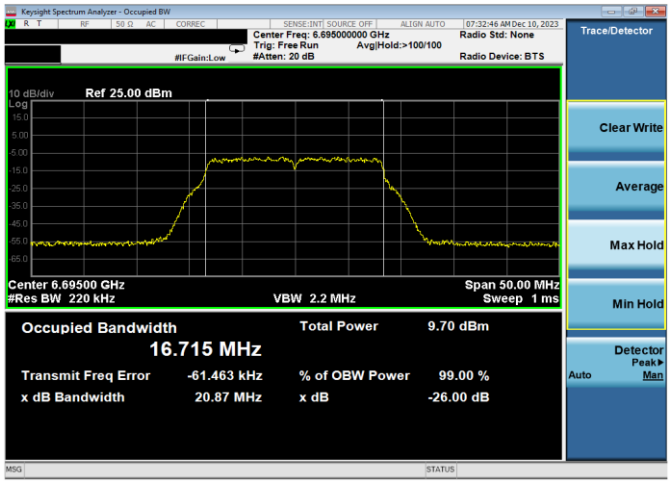
Plot 7-67. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS2)



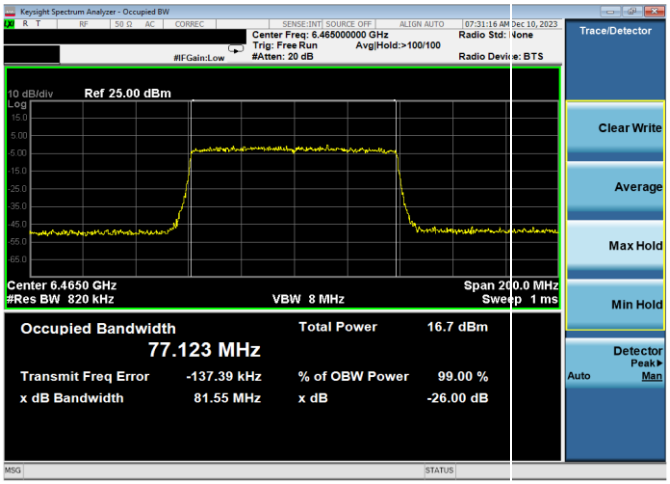
Plot 7-70. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS2)



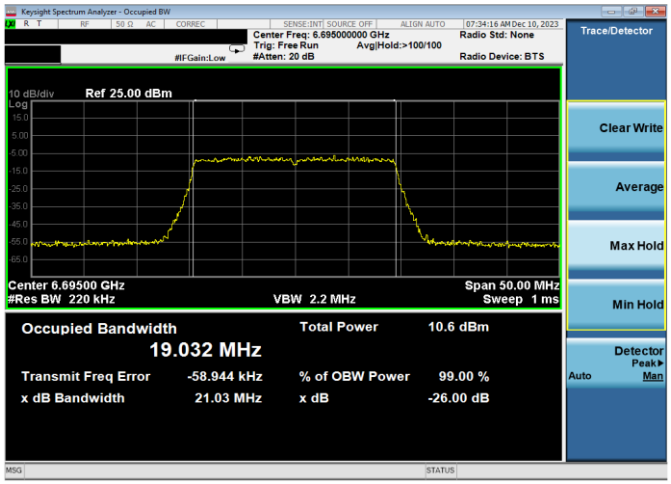
Plot 7-68. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS2)



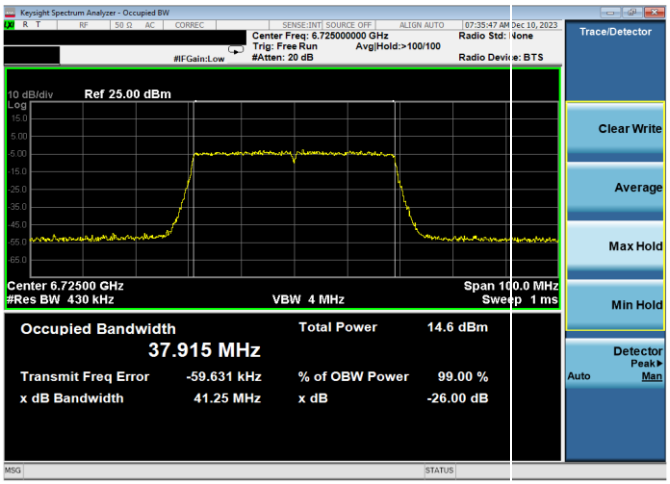
Plot 7-71. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 7) – Ch. 149, 12Mbps)



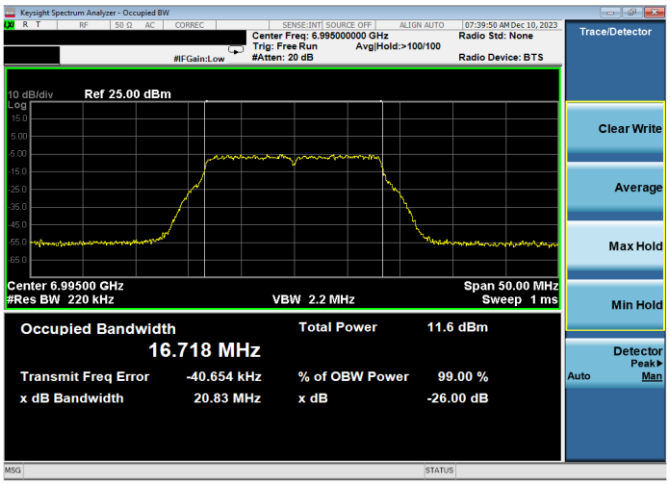
Plot 7-69. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS2)



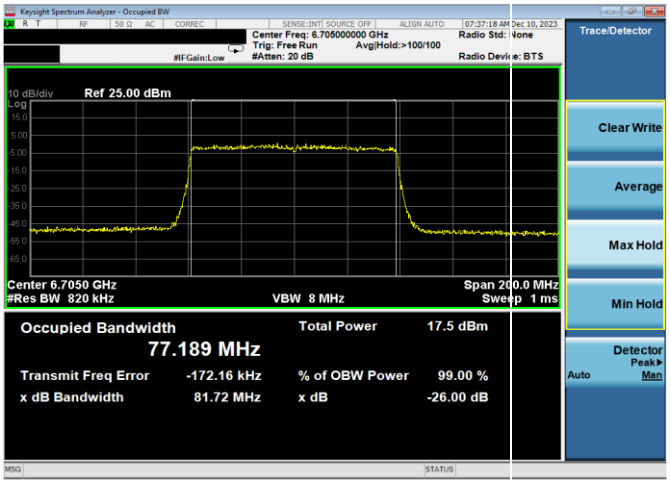
Plot 7-72. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS2)



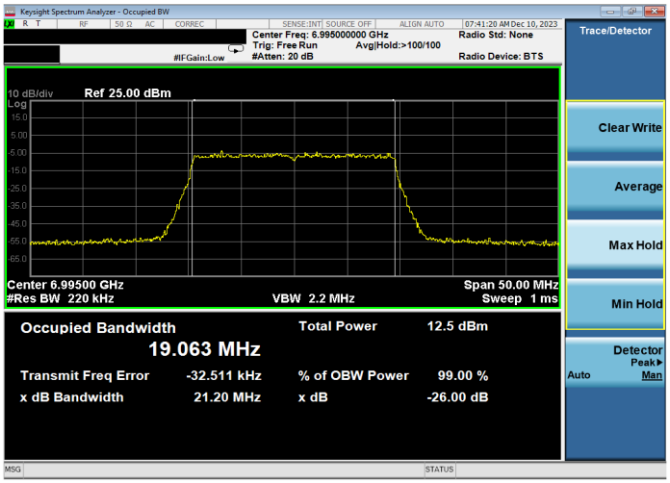
Plot 7-73. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS2)



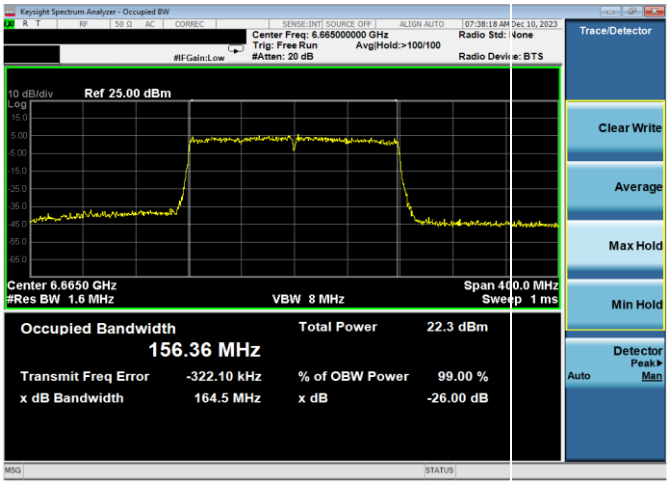
Plot 7-76. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 8) – Ch. 209, 12Mbps)



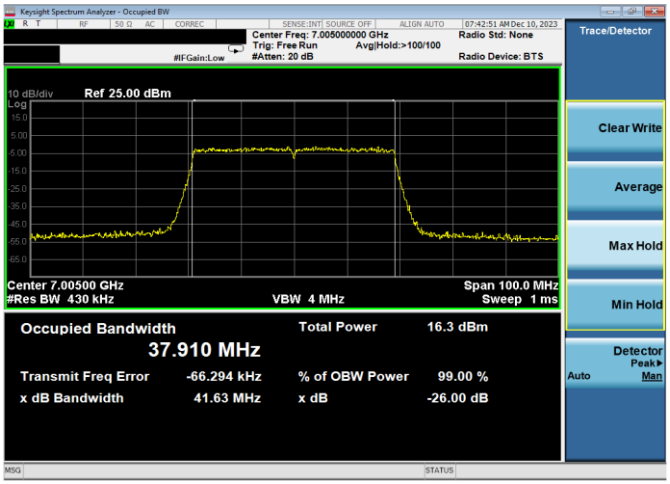
Plot 7-74. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS2)



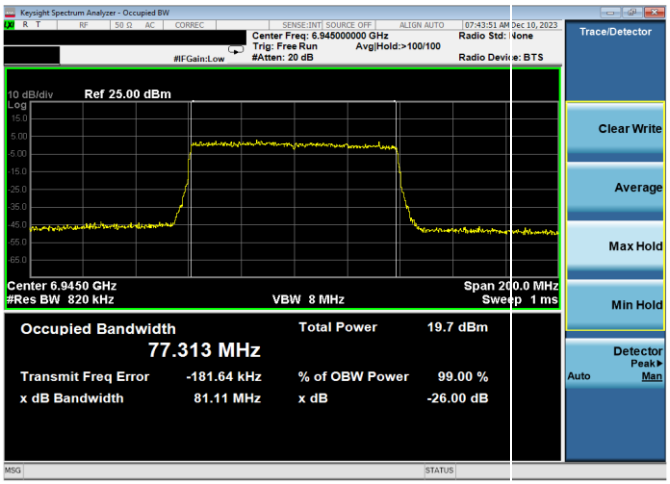
Plot 7-77. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS2)



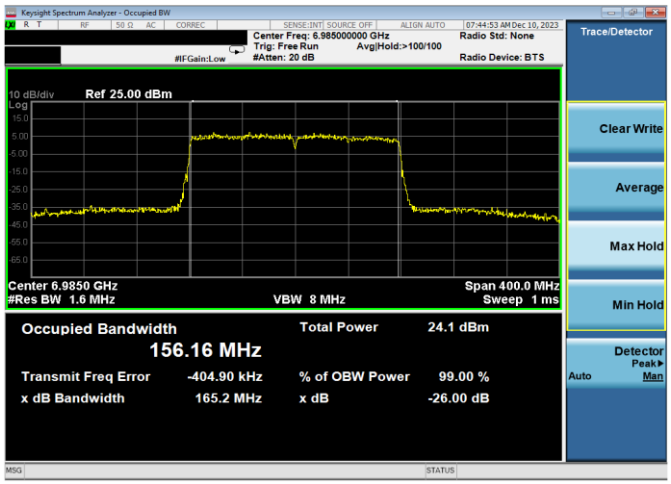
Plot 7-75. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS2)



Plot 7-78. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS2)

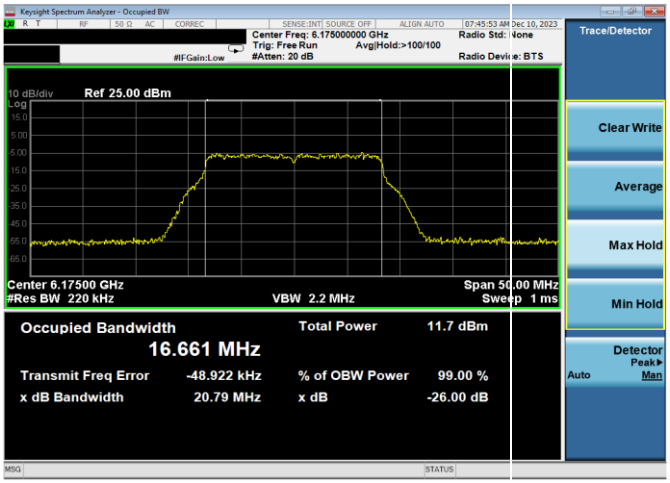


Plot 7-79. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS2)

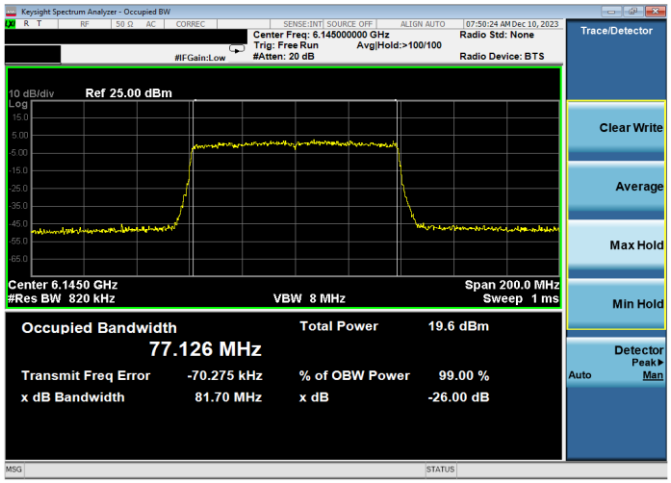


Plot 7-80. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS2)

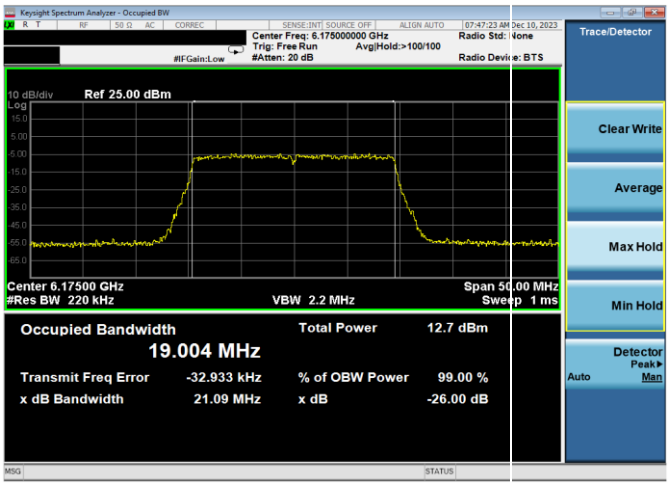
Mid Data Rate



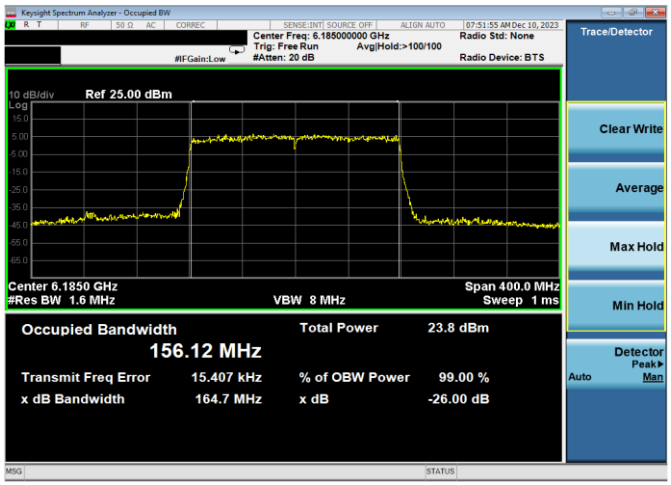
Plot 7-81. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 5) – Ch. 45, 24Mbps)



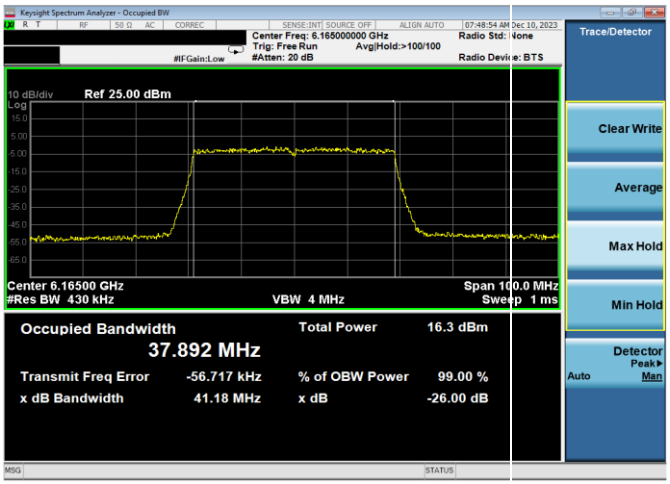
Plot 7-84. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS4)



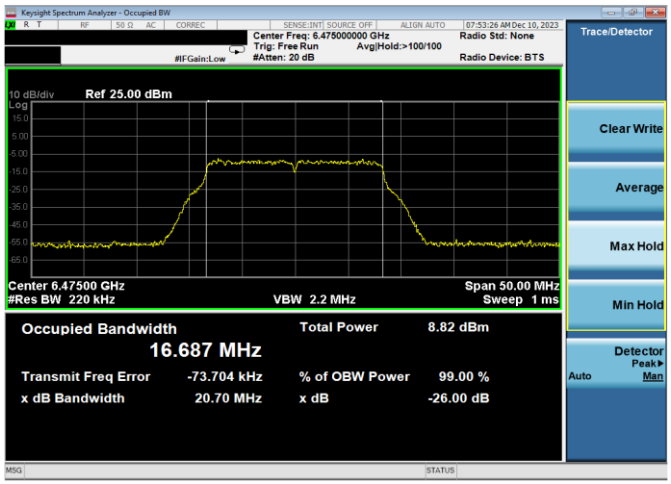
Plot 7-82. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS4)



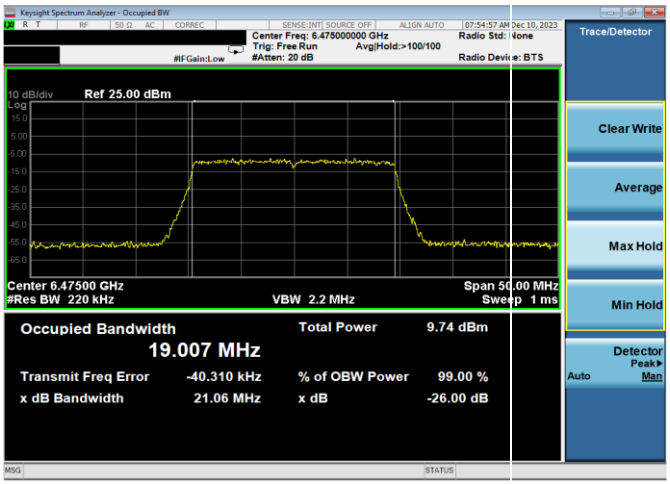
Plot 7-85. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS4)



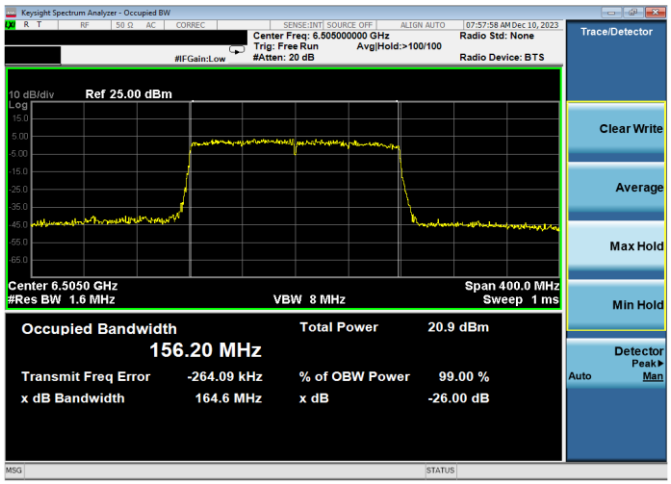
Plot 7-83. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS4)



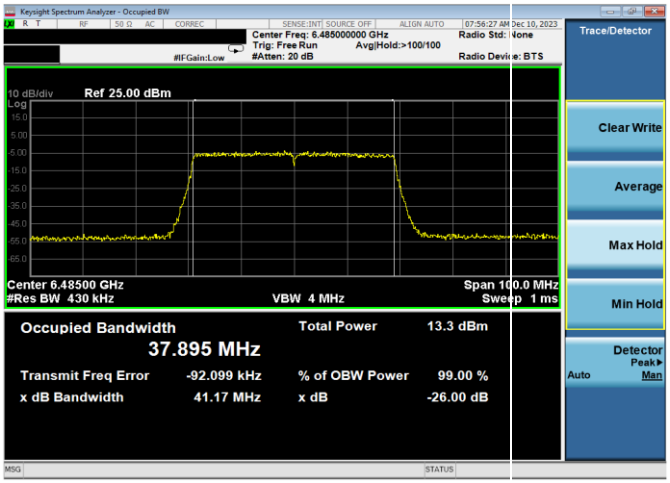
Plot 7-86. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 6) – Ch. 105, 24Mbps)



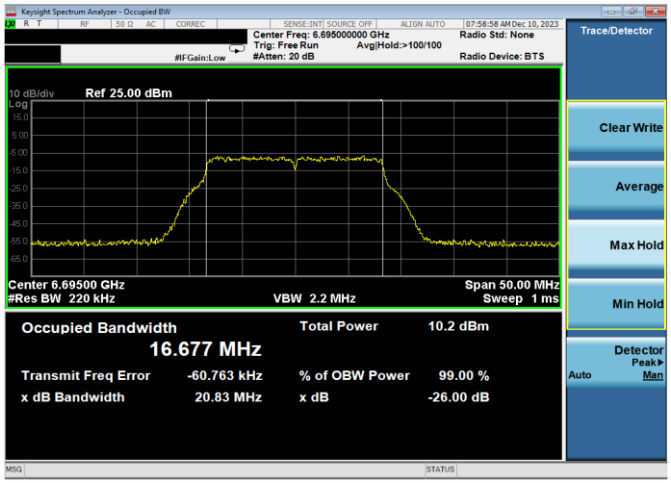
Plot 7-87. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS4)



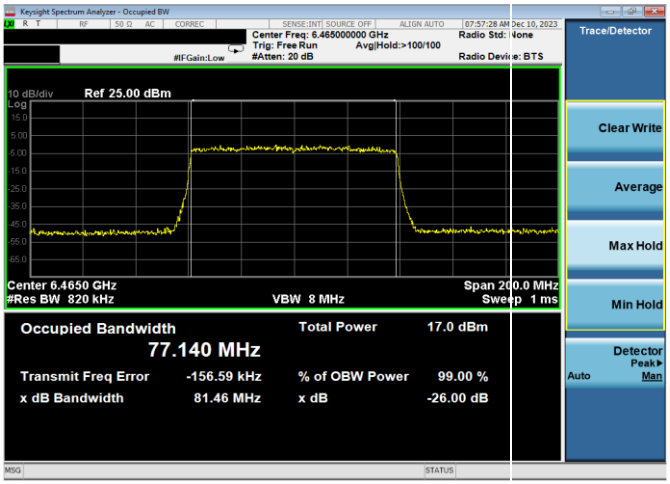
Plot 7-90. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS4)



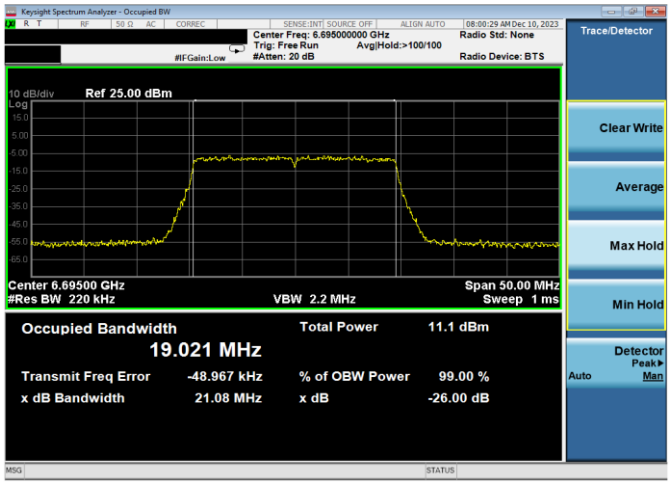
Plot 7-88. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS4)



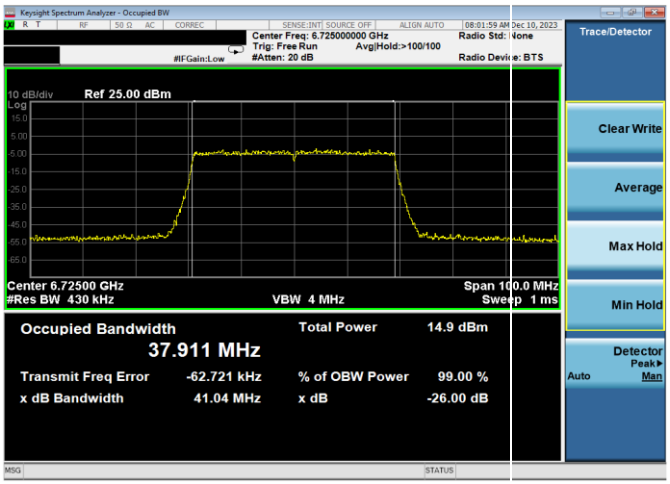
Plot 7-91. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 7) – Ch. 149, 24Mbps)



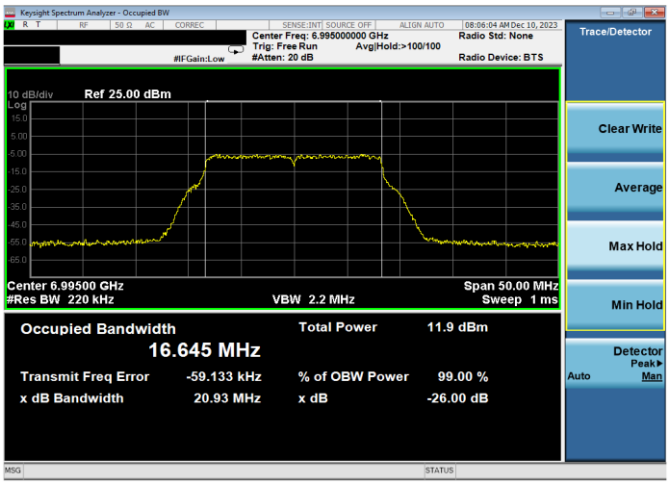
Plot 7-89. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS4)



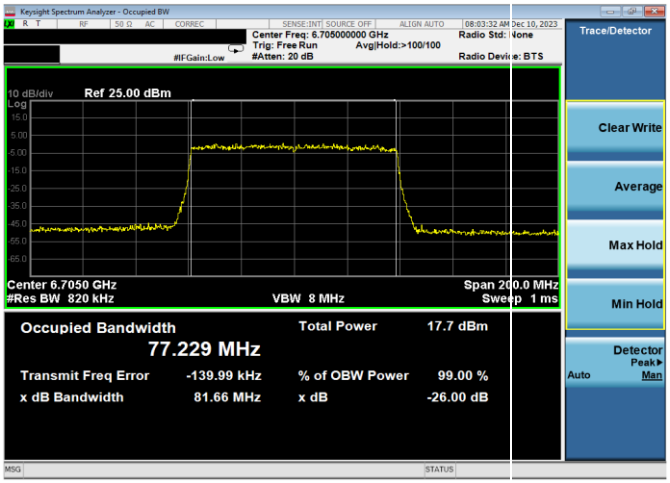
Plot 7-92. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS4)



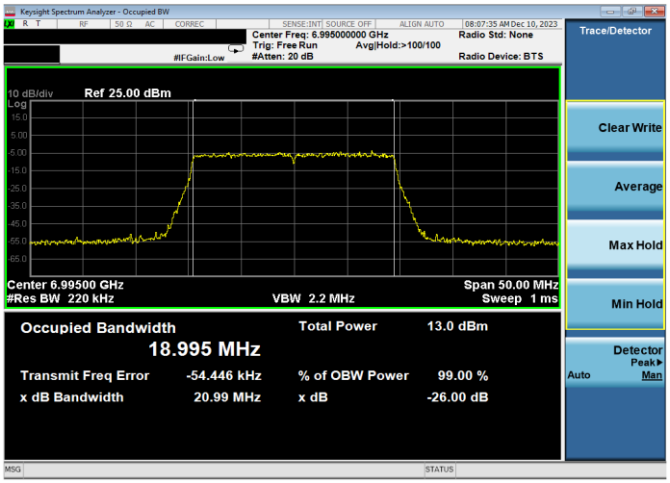
Plot 7-93. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS4)



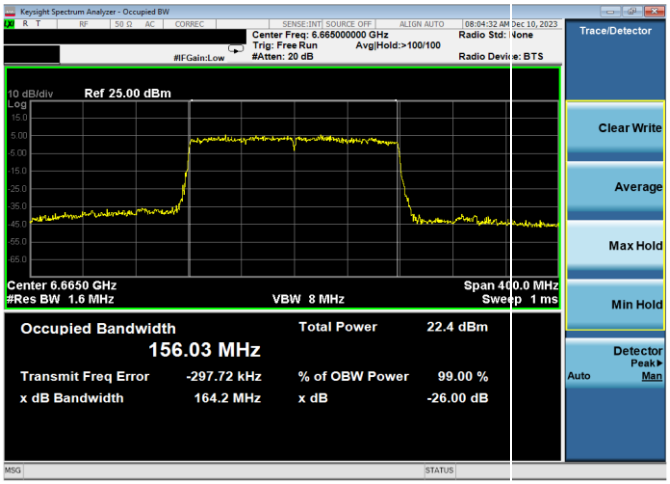
Plot 7-96. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 8) – Ch. 209, 24Mbps)



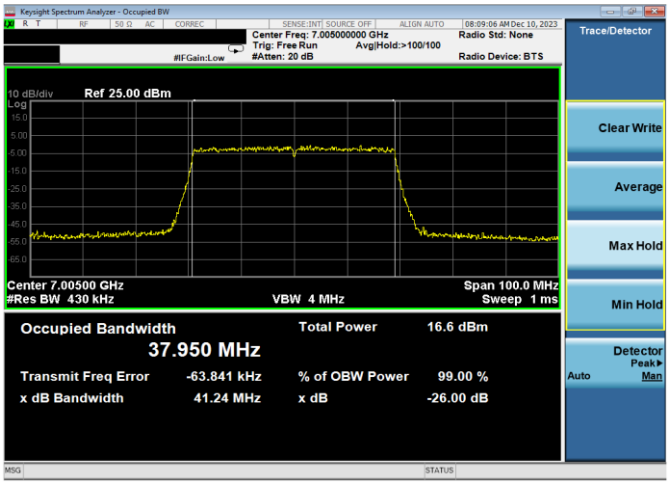
Plot 7-94. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS4)



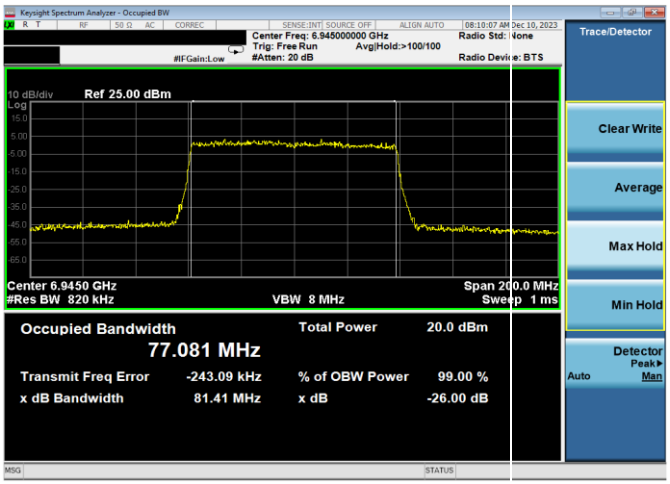
Plot 7-97. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS4)



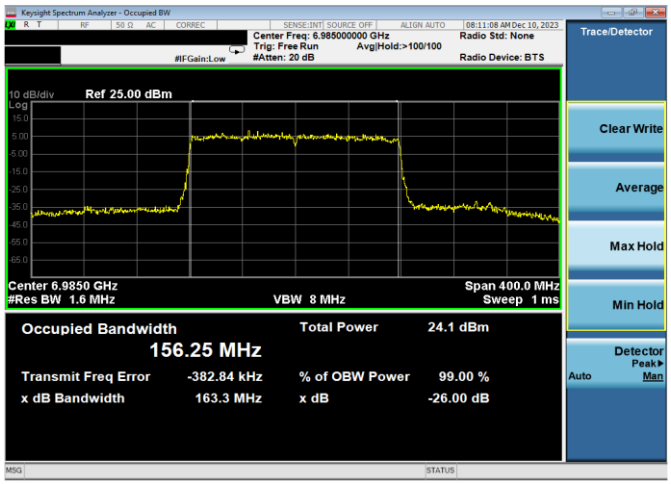
Plot 7-95. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS4)



Plot 7-98. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS4)

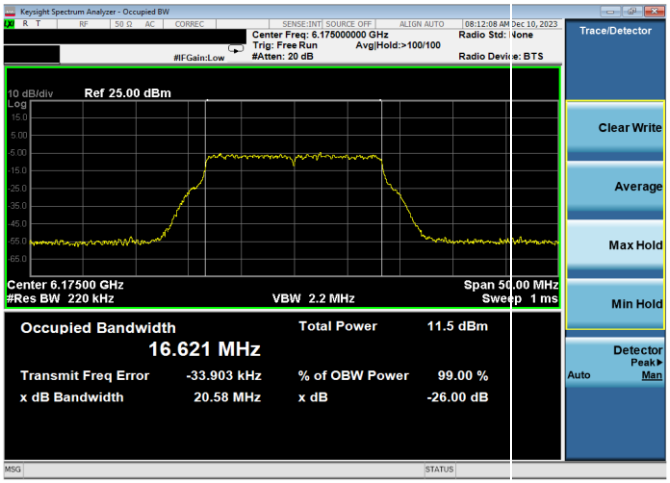


Plot 7-99. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS4)

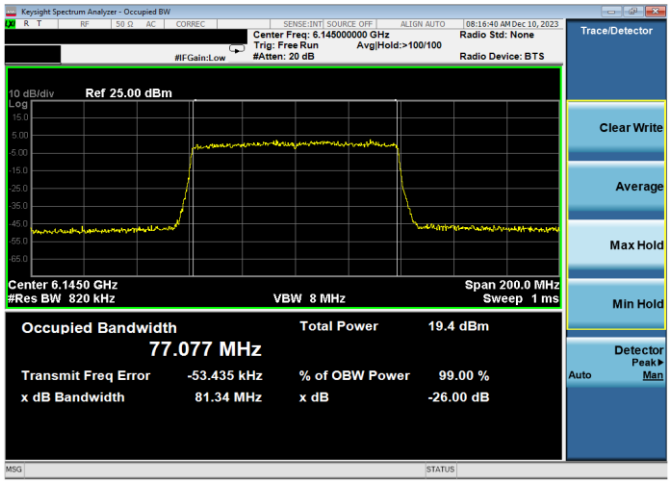


Plot 7-100. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS4)

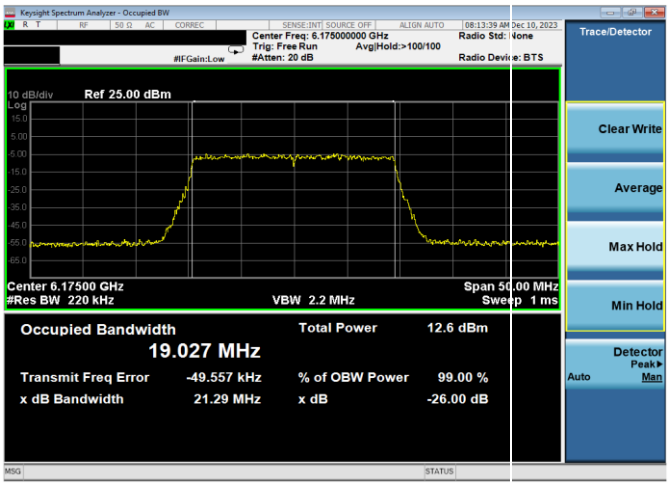
High Data Rate



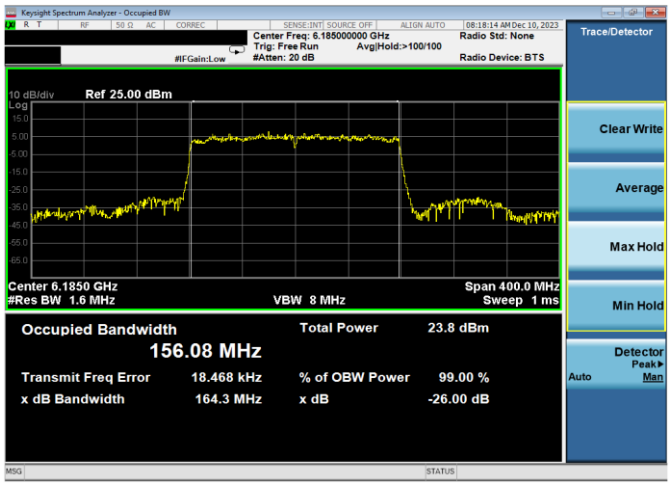
Plot 7-101. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



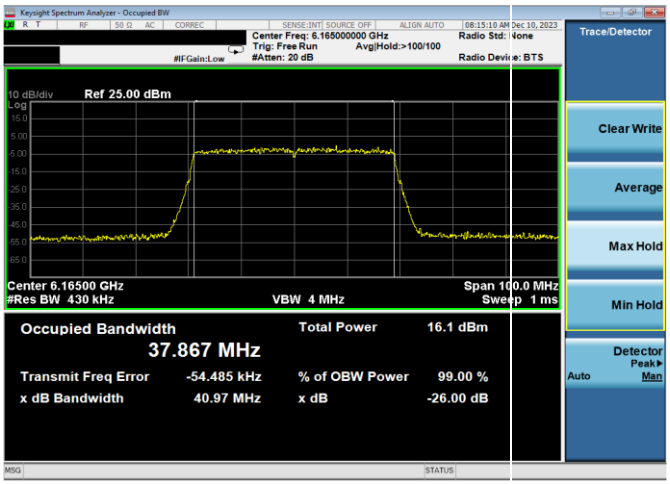
Plot 7-104. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



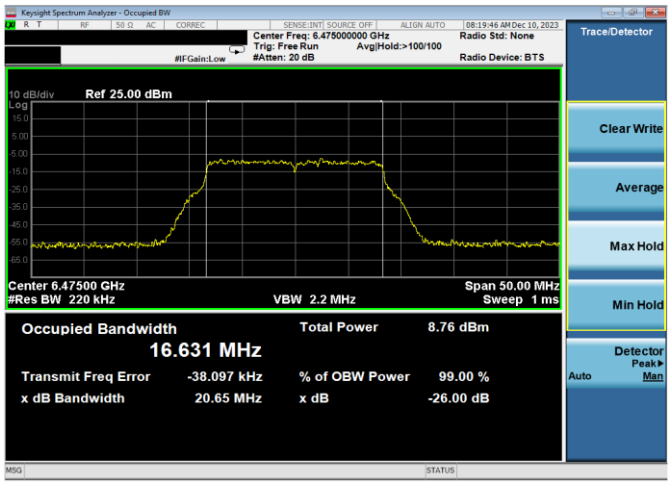
Plot 7-102. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



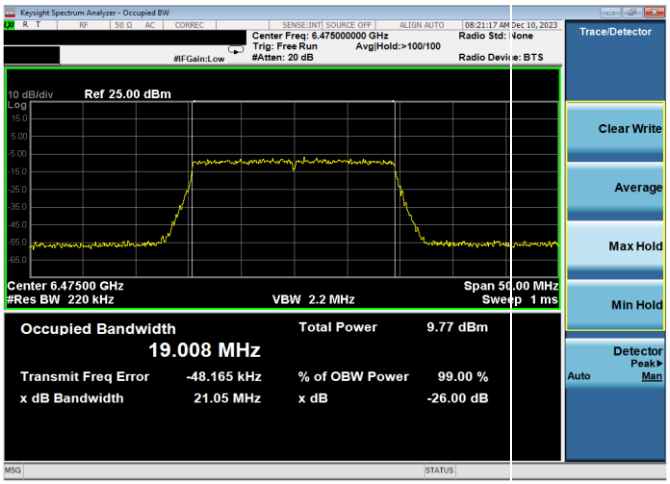
Plot 7-105. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



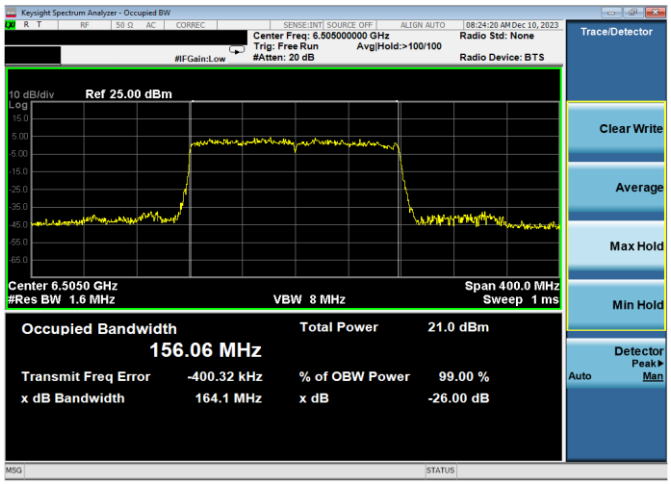
Plot 7-103. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)



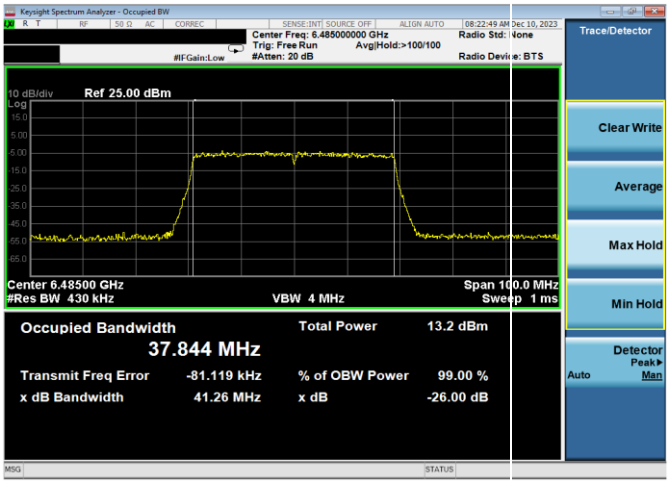
Plot 7-106. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 6) – Ch. 105, 54Mbps)



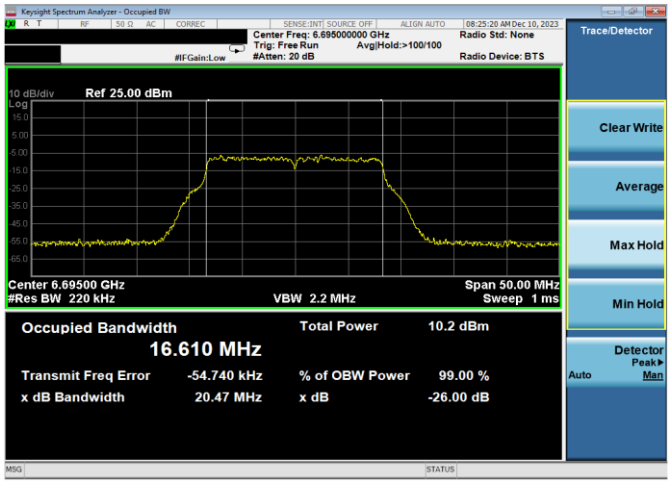
Plot 7-107. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



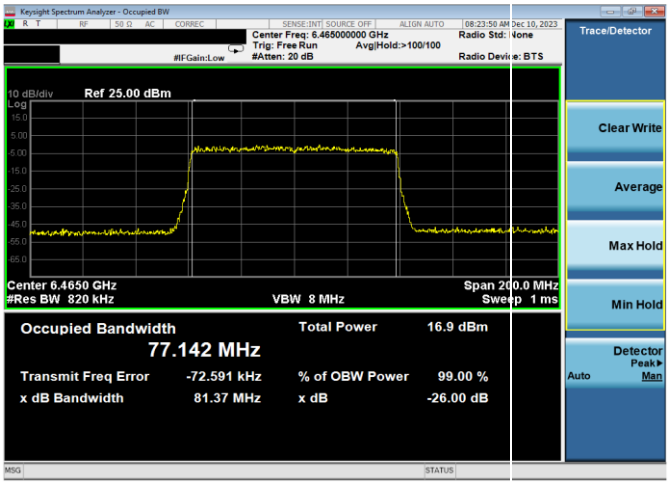
Plot 7-110. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



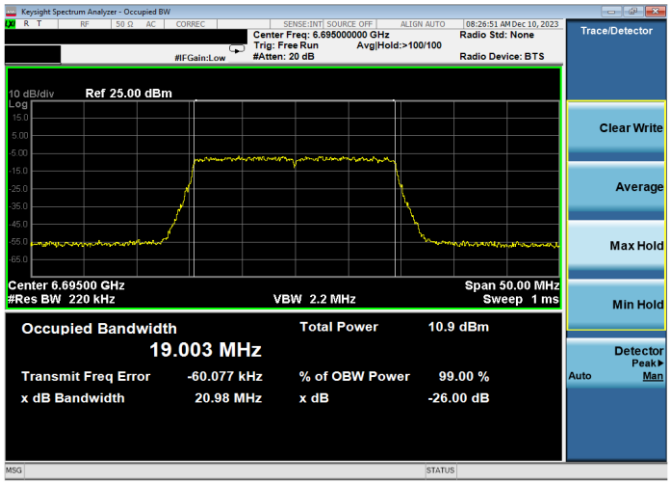
Plot 7-108. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



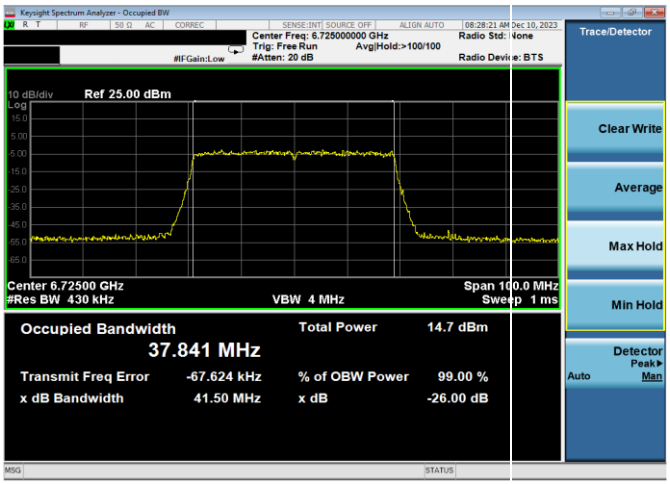
Plot 7-111. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)



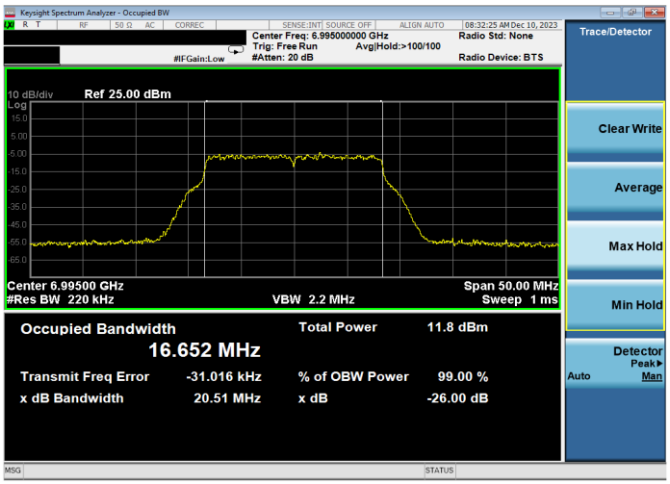
Plot 7-109. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)



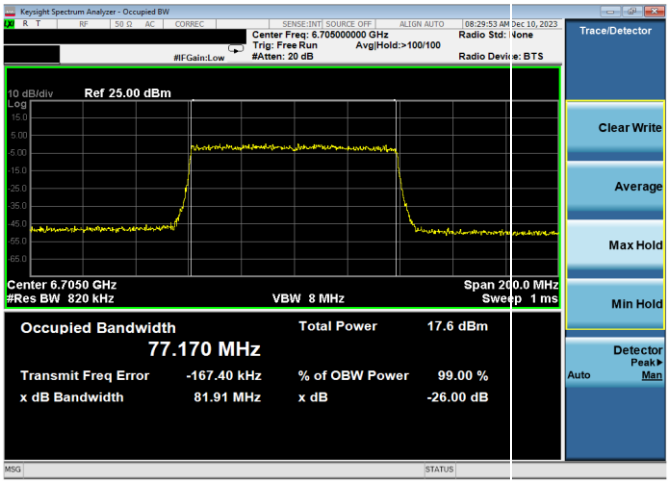
Plot 7-112. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



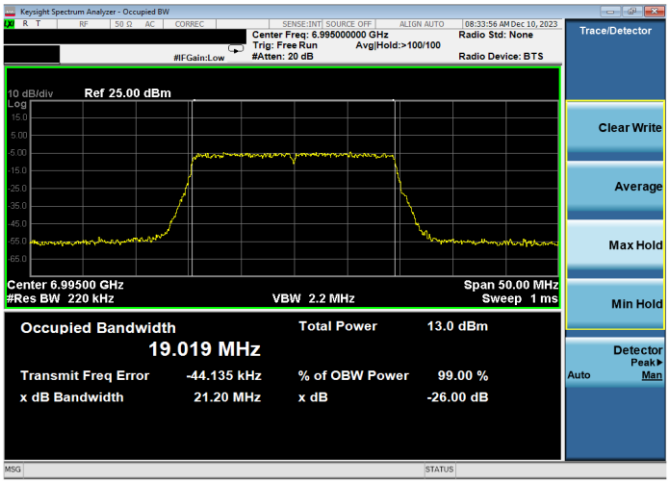
Plot 7-113. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



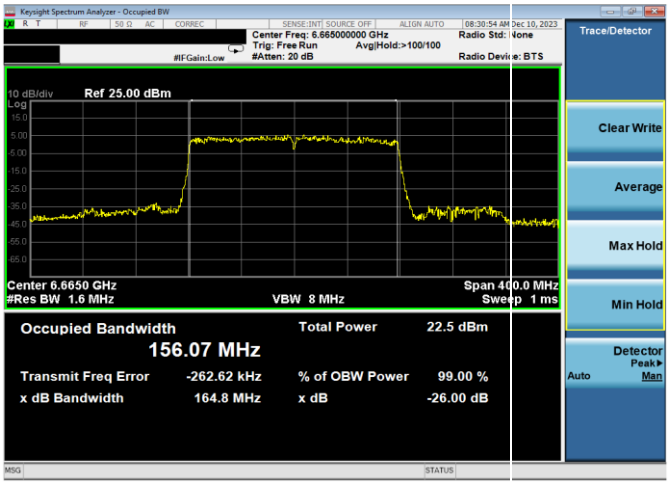
Plot 7-116. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11a (UNII Band 8) – Ch. 209, 54Mbps)



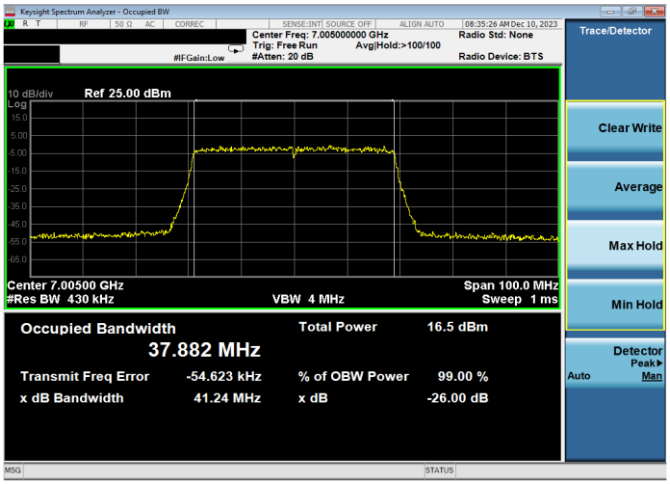
Plot 7-114. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



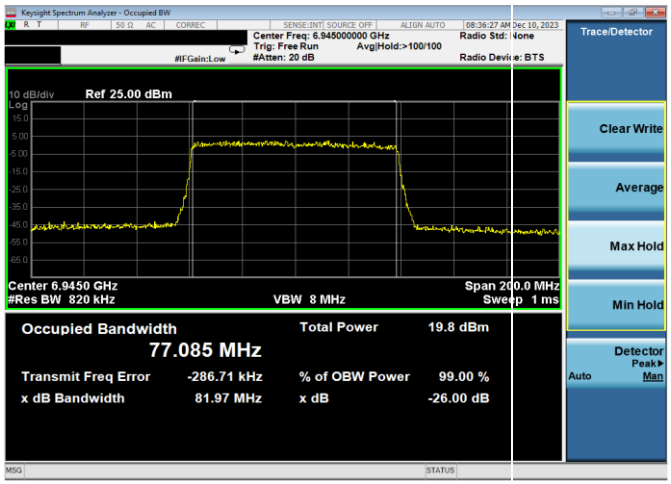
Plot 7-117. 26dB & 99% Bandwidth Plot Antenna WF8 (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)



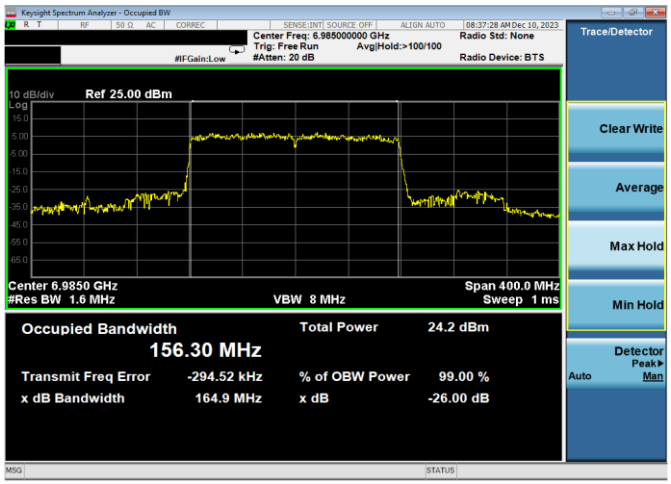
Plot 7-115. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)



Plot 7-118. 26dB & 99% Bandwidth Plot Antenna WF8 (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)



Plot 7-119. 26dB & 99% Bandwidth Plot Antenna WF8 (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS11)



Plot 7-120. 26dB & 99% Bandwidth Plot Antenna WF8 (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS11)

7.3 Conducted Output Power and Max EIRP Measurement – 802.11a/ax(SU)

§15.407(a)(8), 15.407(a)(7), RSS-248 [4.5.3], RSS-248 [4.5.5]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

In the 5.925 – 7.125GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30dBm for Standard Power mode (SP) and 24dBm for Low Power Indoor mode (LPI).

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

7.3.1 Antenna WF8 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.50	3.50	5.00	8.50	24.00	-15.50
	6175	45	AVG	4.25	4.23	5.00	9.25	24.00	-14.75
	6415	93	AVG	5.00	4.88	5.00	10.00	24.00	-14.00
	6435	97	AVG	4.59	4.68	2.20	6.88	24.00	-17.12
	6475	105	AVG	4.60	4.51	2.20	6.80	24.00	-17.20
	6515	113	AVG	4.58	4.75	2.20	6.95	24.00	-17.05
	6535	117	AVG	5.25	5.22	2.10	7.35	24.00	-16.65
	6695	149	AVG	5.04	5.04	2.10	7.14	24.00	-16.86
	6875	185	AVG	5.18	5.00	2.10	7.28	24.00	-16.72
	6895	189	AVG	6.55	6.72	2.10	8.82	24.00	-15.18
	6995	209	AVG	6.75	6.75	2.10	8.85	24.00	-15.15
	7115	233	AVG	6.73	6.60	2.10	8.83	24.00	-15.17

Table 7-8. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.47	3.44	5.00	8.47	24.00	-15.53
	6175	45	AVG	4.01	4.12	5.00	9.12	24.00	-14.88
	6415	93	AVG	4.76	4.89	5.00	9.89	24.00	-14.11
	6435	97	AVG	4.62	4.61	2.20	6.82	24.00	-17.18
	6475	105	AVG	4.75	4.72	2.20	6.95	24.00	-17.05
	6515	113	AVG	4.75	4.67	2.20	6.95	24.00	-17.05
	6535	117	AVG	5.21	5.08	2.10	7.31	24.00	-16.69
	6695	149	AVG	5.19	5.25	2.10	7.35	24.00	-16.65
	6875	185	AVG	5.14	5.17	2.10	7.27	24.00	-16.73
	6895	189	AVG	6.60	6.65	2.10	8.75	24.00	-15.25
	6995	209	AVG	6.67	6.75	2.10	8.85	24.00	-15.15
	7115	233	AVG	6.61	6.75	2.10	8.85	24.00	-15.15

Table 7-9. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.45	3.44	5.00	8.45	24.00	-15.55
	6175	45	AVG	4.01	4.00	5.00	9.01	24.00	-15.00
	6415	93	AVG	4.97	4.83	5.00	9.97	24.00	-14.03
	6435	97	AVG	4.50	4.55	2.20	6.75	24.00	-17.25
	6475	105	AVG	4.75	4.63	2.20	6.95	24.00	-17.05
	6515	113	AVG	4.50	4.59	2.20	6.79	24.00	-17.21
	6535	117	AVG	5.18	5.14	2.10	7.28	24.00	-16.72
	6695	149	AVG	5.20	5.19	2.10	7.30	24.00	-16.71
	6875	185	AVG	5.25	5.25	2.10	7.35	24.00	-16.65
	6895	189	AVG	6.62	6.66	2.10	8.76	24.00	-15.24
	6995	209	AVG	6.75	6.75	2.10	8.85	24.00	-15.15
	7115	233	AVG	6.75	6.75	2.10	8.85	24.00	-15.15

Table 7-10. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.34	5.00	11.34	24.00	-12.66
	6165	43	AVG	7.25	5.00	12.25	24.00	-11.75
	6405	91	AVG	7.76	5.00	12.76	24.00	-11.24
	6445	99	AVG	7.75	2.20	9.95	24.00	-14.05
	6485	107	AVG	7.47	2.20	9.67	24.00	-14.33
	6525	115	AVG	7.75	2.20	9.95	24.00	-14.05
	6565	123	AVG	8.12	2.10	10.22	24.00	-13.78
	6725	155	AVG	8.03	2.10	10.13	24.00	-13.87
	6845	179	AVG	8.20	2.10	10.30	24.00	-13.70
	6885	187	AVG	8.20	2.10	10.30	24.00	-13.70
	7005	211	AVG	9.71	2.10	11.81	24.00	-12.19
	7085	227	AVG	9.73	2.10	11.83	24.00	-12.17

Table 7-11. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.47	5.00	11.47	24.00	-12.53
	6165	43	AVG	7.05	5.00	12.05	24.00	-11.95
	6405	91	AVG	7.91	5.00	12.91	24.00	-11.09
	6445	99	AVG	7.74	2.20	9.94	24.00	-14.07
	6485	107	AVG	7.75	2.20	9.95	24.00	-14.05
	6525	115	AVG	7.75	2.20	9.95	24.00	-14.05
	6565	123	AVG	8.03	2.10	10.13	24.00	-13.87
	6725	155	AVG	8.10	2.10	10.20	24.00	-13.80
	6845	179	AVG	8.13	2.10	10.23	24.00	-13.77
	6885	187	AVG	8.25	2.10	10.35	24.00	-13.65
	7005	211	AVG	9.75	2.10	11.85	24.00	-12.15
	7085	227	AVG	9.60	2.10	11.70	24.00	-12.30

Table 7-12. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.48	5.00	11.48	24.00	-12.52
	6165	43	AVG	7.16	5.00	12.16	24.00	-11.84
	6405	91	AVG	7.85	5.00	12.85	24.00	-11.15
	6445	99	AVG	7.75	2.20	9.95	24.00	-14.05
	6485	107	AVG	7.73	2.20	9.93	24.00	-14.07
	6525	115	AVG	7.75	2.20	9.95	24.00	-14.05
	6565	123	AVG	8.06	2.10	10.16	24.00	-13.84
	6725	155	AVG	8.20	2.10	10.30	24.00	-13.70
	6845	179	AVG	8.14	2.10	10.24	24.00	-13.76
	6885	187	AVG	8.14	2.10	10.24	24.00	-13.76
	7005	211	AVG	9.67	2.10	11.77	24.00	-12.23
	7085	227	AVG	9.69	2.10	11.79	24.00	-12.21

Table 7-13. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.30	5.00	14.30	24.00	-9.70
	6145	39	AVG	10.03	5.00	15.03	24.00	-8.97
	6385	87	AVG	11.00	5.00	16.00	24.00	-8.00
	6465	103	AVG	10.55	2.20	12.75	24.00	-11.25
	6545	119	AVG	10.48	2.10	12.58	24.00	-11.42
	6705	151	AVG	11.10	2.10	13.20	24.00	-10.80
	6865	183	AVG	11.15	2.10	13.25	24.00	-10.75
	6945	199	AVG	12.61	2.10	14.71	24.00	-9.30
	7025	215	AVG	12.54	2.10	14.64	24.00	-9.36

Table 7-14. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.49	5.00	14.49	24.00	-9.51
	6145	39	AVG	10.02	5.00	15.02	24.00	-8.99
	6385	87	AVG	11.00	5.00	16.00	24.00	-8.00
	6465	103	AVG	10.75	2.20	12.95	24.00	-11.05
	6545	119	AVG	10.62	2.10	12.72	24.00	-11.28
	6705	151	AVG	11.25	2.10	13.35	24.00	-10.65
	6865	183	AVG	11.15	2.10	13.25	24.00	-10.76
	6945	199	AVG	12.75	2.10	14.85	24.00	-9.15
	7025	215	AVG	12.73	2.10	14.83	24.00	-9.17

Table 7-15. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.50	5.00	14.50	24.00	-9.50
	6145	39	AVG	10.21	5.00	15.21	24.00	-8.79
	6385	87	AVG	11.00	5.00	16.00	24.00	-8.00
	6465	103	AVG	10.51	2.20	12.71	24.00	-11.29
	6545	119	AVG	10.59	2.10	12.69	24.00	-11.31
	6705	151	AVG	11.25	2.10	13.35	24.00	-10.65
	6865	183	AVG	11.11	2.10	13.21	24.00	-10.79
	6945	199	AVG	12.75	2.10	14.85	24.00	-9.15
	7025	215	AVG	12.62	2.10	14.72	24.00	-9.28

Table 7-16. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	12.00	5.00	17.00	24.00	-7.00
	6185	47	AVG	12.71	5.00	17.71	24.00	-6.29
	6345	79	AVG	13.50	5.00	18.50	24.00	-5.50
	6505	111	AVG	13.13	2.20	15.33	24.00	-8.67
	6665	143	AVG	13.68	2.10	15.78	24.00	-8.22
	6825	175	AVG	13.58	2.10	15.68	24.00	-8.32
	6985	207	AVG	15.18	2.10	17.28	24.00	-6.72

Table 7-17. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	11.77	5.00	16.77	24.00	-7.23
	6185	47	AVG	12.58	5.00	17.58	24.00	-6.42
	6345	79	AVG	13.50	5.00	18.50	24.00	-5.50
	6505	111	AVG	13.25	2.20	15.45	24.00	-8.55
	6665	143	AVG	13.59	2.10	15.69	24.00	-8.31
	6825	175	AVG	13.55	2.10	15.65	24.00	-8.35
	6985	207	AVG	15.25	2.10	17.35	24.00	-6.65

Table 7-18. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	11.81	5.00	16.81	24.00	-7.19
	6185	47	AVG	12.68	5.00	17.68	24.00	-6.32
	6345	79	AVG	13.29	5.00	18.29	24.00	-5.71
	6505	111	AVG	12.93	2.20	15.13	24.00	-8.87
	6665	143	AVG	13.54	2.10	15.64	24.00	-8.36
	6825	175	AVG	13.50	2.10	15.60	24.00	-8.40
	6985	207	AVG	15.10	2.10	17.20	24.00	-6.80

Table 7-19. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.20	19.30	5.00	24.30	30.00	-5.70
	6175	45	AVG	19.22	19.36	5.00	24.36	30.00	-5.64
	6415	93	AVG	18.98	19.23	5.00	24.23	30.00	-5.77
	6535	117	AVG	18.50	18.74	2.10	20.84	30.00	-9.16
	6695	149	AVG	18.52	18.85	2.10	20.95	30.00	-9.05

Table 7-20. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.26	19.46	5.00	24.46	30.00	-5.54
	6175	45	AVG	19.22	19.55	5.00	24.55	30.00	-5.45
	6415	93	AVG	19.09	19.39	5.00	24.39	30.00	-5.61
	6535	117	AVG	18.81	18.79	2.10	20.91	30.00	-9.09
	6695	149	AVG	18.83	19.15	2.10	21.25	30.00	-8.75

Table 7-21. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.27	19.39	5.00	24.39	30.00	-5.61
	6175	45	AVG	19.08	19.37	5.00	24.37	30.00	-5.63
	6415	93	AVG	19.16	19.22	5.00	24.22	30.00	-5.78
	6535	117	AVG	18.48	18.72	2.10	20.82	30.00	-9.18
	6695	149	AVG	18.80	18.85	2.10	20.95	30.00	-9.05

Table 7-22. Antenna WF8 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.43	5.00	24.43	30.00	-5.57
	6165	43	AVG	19.66	5.00	24.66	30.00	-5.34
	6405	91	AVG	19.63	5.00	24.63	30.00	-5.37
	6565	123	AVG	19.10	2.10	21.20	30.00	-8.80
	6725	155	AVG	18.91	2.10	21.01	30.00	-8.99
	6845	179	AVG	19.15	2.10	21.25	30.00	-8.75

Table 7-23. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.50	5.00	24.50	30.00	-5.50
	6165	43	AVG	19.70	5.00	24.70	30.00	-5.30
	6405	91	AVG	19.73	5.00	24.73	30.00	-5.27
	6565	123	AVG	19.03	2.10	21.13	30.00	-8.87
	6725	155	AVG	19.06	2.10	21.16	30.00	-8.84
	6845	179	AVG	19.28	2.10	21.38	30.00	-8.62

Table 7-24. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.34	5.00	24.34	30.00	-5.66
	6165	43	AVG	19.66	5.00	24.66	30.00	-5.34
	6405	91	AVG	19.68	5.00	24.68	30.00	-5.32
	6565	123	AVG	19.05	2.10	21.15	30.00	-8.85
	6725	155	AVG	18.87	2.10	20.97	30.00	-9.03
	6845	179	AVG	19.11	2.10	21.21	30.00	-8.79

Table 7-25. Antenna WF8 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	19.42	5.00	24.42	30.00	-5.58
	6145	39	AVG	19.51	5.00	24.51	30.00	-5.49
	6385	87	AVG	19.33	5.00	24.33	30.00	-5.68
	6705	151	AVG	18.84	2.10	20.94	30.00	-9.06

Table 7-26. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	19.54	5.00	24.54	30.00	-5.47
	6145	39	AVG	19.60	5.00	24.60	30.00	-5.40
	6385	87	AVG	19.31	5.00	24.31	30.00	-5.69
	6705	151	AVG	18.86	2.10	20.96	30.00	-9.04

Table 7-27. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	19.26	5.00	24.26	30.00	-5.74
	6145	39	AVG	19.57	5.00	24.57	30.00	-5.43
	6385	87	AVG	19.19	5.00	24.19	30.00	-5.81
	6705	151	AVG	18.59	2.10	20.69	30.00	-9.31

Table 7-28. Antenna WF8 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	19.88	5.00	24.88	30.00	-5.12
	6185	47	AVG	19.49	5.00	24.49	30.00	-5.51
	6345	79	AVG	19.27	5.00	24.27	30.00	-5.73
	6665	143	AVG	19.07	2.10	21.17	30.00	-8.83

Table 7-29. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	19.79	5.00	24.79	30.00	-5.21
	6185	47	AVG	19.62	5.00	24.62	30.00	-5.39
	6345	79	AVG	19.21	5.00	24.21	30.00	-5.79
	6665	143	AVG	18.88	2.10	20.98	30.00	-9.02

Table 7-30. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	19.62	5.00	24.62	30.00	-5.38
	6185	47	AVG	19.36	5.00	24.36	30.00	-5.64
	6345	79	AVG	19.07	5.00	24.07	30.00	-5.94
	6665	143	AVG	18.78	2.10	20.88	30.00	-9.12

Table 7-31. Antenna WF8 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

7.3.2 Antenna WF7a Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.45	3.35	3.70	7.15	24.00	-16.86
	6175	45	AVG	4.25	4.00	3.70	7.95	24.00	-16.05
	6415	93	AVG	5.00	4.89	3.70	8.70	24.00	-15.30
	6435	97	AVG	4.61	4.70	3.70	8.40	24.00	-15.60
	6475	105	AVG	4.75	4.55	3.70	8.45	24.00	-15.55
	6515	113	AVG	4.75	4.52	3.70	8.45	24.00	-15.55
	6535	117	AVG	5.25	5.15	3.10	8.35	24.00	-15.65
	6695	149	AVG	5.16	5.11	3.10	8.26	24.00	-15.74
	6875	185	AVG	5.17	5.20	3.10	8.30	24.00	-15.70
	6895	189	AVG	6.75	6.63	2.60	9.35	24.00	-14.65
	6995	209	AVG	6.75	6.57	2.60	9.35	24.00	-14.65
	7115	233	AVG	6.75	6.55	2.60	9.35	24.00	-14.65

Table 7-32. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.18	3.42	3.70	7.12	24.00	-16.88
	6175	45	AVG	4.10	4.24	3.70	7.94	24.00	-16.06
	6415	93	AVG	4.83	4.99	3.70	8.69	24.00	-15.31
	6435	97	AVG	4.53	4.56	3.70	8.26	24.00	-15.75
	6475	105	AVG	4.60	4.58	3.70	8.30	24.00	-15.70
	6515	113	AVG	4.56	4.64	3.70	8.34	24.00	-15.66
	6535	117	AVG	5.12	5.09	3.10	8.22	24.00	-15.78
	6695	149	AVG	5.14	5.16	3.10	8.26	24.00	-15.74
	6875	185	AVG	5.25	4.93	3.10	8.35	24.00	-15.65
	6895	189	AVG	6.69	6.70	2.60	9.30	24.00	-14.70
	6995	209	AVG	6.55	6.75	2.60	9.35	24.00	-14.65
	7115	233	AVG	6.62	6.75	2.60	9.35	24.00	-14.65

Table 7-33. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	3.39	3.50	3.70	7.20	24.00	-16.80
	6175	45	AVG	4.01	4.17	3.70	7.87	24.00	-16.13
	6415	93	AVG	4.80	4.86	3.70	8.56	24.00	-15.44
	6435	97	AVG	4.52	4.61	3.70	8.31	24.00	-15.69
	6475	105	AVG	4.58	4.53	3.70	8.28	24.00	-15.72
	6515	113	AVG	4.75	4.54	3.70	8.45	24.00	-15.55
	6535	117	AVG	5.13	5.25	3.10	8.35	24.00	-15.65
	6695	149	AVG	5.24	5.08	3.10	8.34	24.00	-15.67
	6875	185	AVG	5.25	5.25	3.10	8.35	24.00	-15.65
	6895	189	AVG	6.75	6.75	2.60	9.35	24.00	-14.65
	6995	209	AVG	6.75	6.53	2.60	9.35	24.00	-14.65
	7115	233	AVG	6.75	6.62	2.60	9.35	24.00	-14.65

Table 7-34. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.50	3.70	10.20	24.00	-13.80
	6165	43	AVG	7.25	3.70	10.95	24.00	-13.05
	6405	91	AVG	7.78	3.70	11.48	24.00	-12.52
	6445	99	AVG	7.75	3.70	11.45	24.00	-12.55
	6485	107	AVG	7.61	3.70	11.31	24.00	-12.69
	6525	115	AVG	7.75	3.70	11.45	24.00	-12.55
	6565	123	AVG	8.25	3.10	11.35	24.00	-12.65
	6725	155	AVG	8.10	3.10	11.20	24.00	-12.80
	6845	179	AVG	8.05	3.10	11.15	24.00	-12.85
	6885	187	AVG	8.01	2.60	10.61	24.00	-13.39
	7005	211	AVG	9.75	2.60	12.35	24.00	-11.65
	7085	227	AVG	9.59	2.60	12.19	24.00	-11.81

Table 7-35. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.50	3.70	10.20	24.00	-13.80
	6165	43	AVG	7.20	3.70	10.90	24.00	-13.10
	6405	91	AVG	7.87	3.70	11.57	24.00	-12.43
	6445	99	AVG	7.74	3.70	11.44	24.00	-12.56
	6485	107	AVG	7.75	3.70	11.45	24.00	-12.55
	6525	115	AVG	7.75	3.70	11.45	24.00	-12.55
	6565	123	AVG	8.25	3.10	11.35	24.00	-12.65
	6725	155	AVG	8.23	3.10	11.33	24.00	-12.67
	6845	179	AVG	8.25	3.10	11.35	24.00	-12.65
	6885	187	AVG	8.24	2.60	10.84	24.00	-13.16
	7005	211	AVG	9.50	2.60	12.10	24.00	-11.90
	7085	227	AVG	9.70	2.60	12.30	24.00	-11.70

Table 7-36. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	6.41	3.70	10.11	24.00	-13.89
	6165	43	AVG	7.25	3.70	10.95	24.00	-13.05
	6405	91	AVG	7.79	3.70	11.49	24.00	-12.51
	6445	99	AVG	7.75	3.70	11.45	24.00	-12.55
	6485	107	AVG	7.62	3.70	11.32	24.00	-12.69
	6525	115	AVG	7.72	3.70	11.42	24.00	-12.59
	6565	123	AVG	8.25	3.10	11.35	24.00	-12.65
	6725	155	AVG	8.10	3.10	11.20	24.00	-12.80
	6845	179	AVG	8.05	3.10	11.15	24.00	-12.86
	6885	187	AVG	8.04	2.60	10.64	24.00	-13.36
	7005	211	AVG	9.75	2.60	12.35	24.00	-11.65
	7085	227	AVG	9.60	2.60	12.20	24.00	-11.80

Table 7-37. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.50	3.70	13.20	24.00	-10.80
	6145	39	AVG	10.16	3.70	13.86	24.00	-10.14
	6385	87	AVG	10.90	3.70	14.60	24.00	-9.40
	6465	103	AVG	10.63	3.70	14.33	24.00	-9.67
	6545	119	AVG	10.54	3.10	13.64	24.00	-10.37
	6705	151	AVG	11.12	3.10	14.22	24.00	-9.78
	6865	183	AVG	11.25	3.10	14.35	24.00	-9.65
	6945	199	AVG	12.75	2.60	15.35	24.00	-8.65
	7025	215	AVG	12.52	2.60	15.12	24.00	-8.88

Table 7-38. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.49	3.70	13.19	24.00	-10.81
	6145	39	AVG	10.09	3.70	13.79	24.00	-10.21
	6385	87	AVG	10.91	3.70	14.61	24.00	-9.40
	6465	103	AVG	10.75	3.70	14.45	24.00	-9.55
	6545	119	AVG	10.66	3.10	13.76	24.00	-10.25
	6705	151	AVG	11.25	3.10	14.35	24.00	-9.65
	6865	183	AVG	11.19	3.10	14.29	24.00	-9.71
	6945	199	AVG	12.60	2.60	15.20	24.00	-8.80
	7025	215	AVG	12.75	2.60	15.35	24.00	-8.65

Table 7-39. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	9.50	3.70	13.20	24.00	-10.80
	6145	39	AVG	10.12	3.70	13.82	24.00	-10.18
	6385	87	AVG	10.95	3.70	14.65	24.00	-9.35
	6465	103	AVG	10.57	3.70	14.27	24.00	-9.73
	6545	119	AVG	10.57	3.10	13.67	24.00	-10.33
	6705	151	AVG	11.10	3.10	14.20	24.00	-9.80
	6865	183	AVG	11.16	3.10	14.26	24.00	-9.74
	6945	199	AVG	12.62	2.60	15.22	24.00	-8.78
	7025	215	AVG	12.56	2.60	15.16	24.00	-8.84

Table 7-40. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (160MHz Bandwidth)	6025	15	AVG	12.00	3.70	15.70	24.00	-8.30
	6185	47	AVG	12.75	3.70	16.45	24.00	-7.55
	6345	79	AVG	13.32	3.70	17.02	24.00	-6.98
	6505	111	AVG	13.04	3.70	16.74	24.00	-7.26
	6665	143	AVG	13.70	3.10	16.80	24.00	-7.20
	6825	175	AVG	13.53	3.10	16.63	24.00	-7.38
	6985	207	AVG	15.25	2.60	17.85	24.00	-6.15

Table 7-41. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (160MHz Bandwidth)	6025	15	AVG	12.00	3.70	15.70	24.00	-8.30
	6185	47	AVG	12.70	3.70	16.40	24.00	-7.60
	6345	79	AVG	13.39	3.70	17.09	24.00	-6.91
	6505	111	AVG	13.17	3.70	16.87	24.00	-7.13
	6665	143	AVG	13.75	3.10	16.85	24.00	-7.15
	6825	175	AVG	13.75	3.10	16.85	24.00	-7.15
	6985	207	AVG	15.08	2.60	17.68	24.00	-6.32

Table 7-42. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
5GHz (160MHz Bandwidth)	6025	15	AVG	12.00	3.70	15.70	24.00	-8.30
	6185	47	AVG	12.59	3.70	16.29	24.00	-7.71
	6345	79	AVG	13.50	3.70	17.20	24.00	-6.80
	6505	111	AVG	13.16	3.70	16.86	24.00	-7.14
	6665	143	AVG	13.57	3.10	16.67	24.00	-7.33
	6825	175	AVG	13.62	3.10	16.72	24.00	-7.29
	6985	207	AVG	15.25	2.60	17.85	24.00	-6.15

Table 7-43. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.26	19.58	3.70	23.28	30.00	-6.72
	6175	45	AVG	19.34	19.55	3.70	23.25	30.00	-6.75
	6415	93	AVG	18.93	19.03	3.70	22.73	30.00	-7.27
	6535	117	AVG	18.37	18.49	3.10	21.59	30.00	-8.41
	6695	149	AVG	18.57	18.68	3.10	21.78	30.00	-8.22

Table 7-44. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.41	19.53	3.70	23.23	30.00	-6.77
	6175	45	AVG	19.36	19.59	3.70	23.29	30.00	-6.71
	6415	93	AVG	18.98	19.16	3.70	22.86	30.00	-7.14
	6535	117	AVG	18.41	18.70	3.10	21.80	30.00	-8.20
	6695	149	AVG	18.59	18.58	3.10	21.69	30.00	-8.31

Table 7-45. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
	5955	1	AVG	19.16	19.36	3.70	23.06	30.00	-6.94
	6175	45	AVG	19.18	19.48	3.70	23.18	30.00	-6.82
	6415	93	AVG	18.98	18.94	3.70	22.68	30.00	-7.32
	6535	117	AVG	18.27	18.38	3.10	21.48	30.00	-8.52
	6695	149	AVG	18.46	18.54	3.10	21.64	30.00	-8.36

Table 7-46. Antenna WF7a 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.77	3.70	23.47	30.00	-6.53
	6165	43	AVG	19.86	3.70	23.56	30.00	-6.44
	6405	91	AVG	19.27	3.70	22.97	30.00	-7.03
	6565	123	AVG	18.81	3.10	21.91	30.00	-8.09
	6725	155	AVG	19.26	3.10	22.36	30.00	-7.64
	6845	179	AVG	19.50	3.10	22.60	30.00	-7.40

Table 7-47. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.69	3.70	23.39	30.00	-6.61
	6165	43	AVG	19.96	3.70	23.66	30.00	-6.34
	6405	91	AVG	19.32	3.70	23.02	30.00	-6.98
	6565	123	AVG	18.65	3.10	21.75	30.00	-8.25
	6725	155	AVG	19.06	3.10	22.16	30.00	-7.84
	6845	179	AVG	19.50	3.10	22.60	30.00	-7.40

Table 7-48. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	19.57	3.70	23.27	30.00	-6.73
	6165	43	AVG	19.79	3.70	23.49	30.00	-6.51
	6405	91	AVG	19.23	3.70	22.93	30.00	-7.07
	6565	123	AVG	18.58	3.10	21.68	30.00	-8.32
	6725	155	AVG	19.07	3.10	22.17	30.00	-7.83
	6845	179	AVG	19.35	3.10	22.45	30.00	-7.55

Table 7-49. Antenna WF7a 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	20.00	3.70	23.70	30.00	-6.30
	6145	39	AVG	19.72	3.70	23.42	30.00	-6.58
	6385	87	AVG	19.42	3.70	23.12	30.00	-6.88
	6705	151	AVG	19.08	3.10	22.18	30.00	-7.82

Table 7-50. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	19.86	3.70	23.56	30.00	-6.44
	6145	39	AVG	19.79	3.70	23.49	30.00	-6.51
	6385	87	AVG	19.39	3.70	23.09	30.00	-6.91
	6705	151	AVG	19.10	3.10	22.20	30.00	-7.80

Table 7-51. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	19.78	3.70	23.48	30.00	-6.52
	6145	39	AVG	19.66	3.70	23.36	30.00	-6.64
	6385	87	AVG	19.28	3.70	22.98	30.00	-7.03
	6705	151	AVG	18.84	3.10	21.94	30.00	-8.06

Table 7-52. Antenna WF7a 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	20.00	3.70	23.70	30.00	-6.30
	6185	47	AVG	19.61	3.70	23.31	30.00	-6.69
	6345	79	AVG	19.17	3.70	22.87	30.00	-7.13
	6665	143	AVG	18.77	3.10	21.87	30.00	-8.13

Table 7-53. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	20.00	3.70	23.70	30.00	-6.30
	6185	47	AVG	19.39	3.70	23.09	30.00	-6.91
	6345	79	AVG	19.08	3.70	22.78	30.00	-7.22
	6665	143	AVG	18.75	3.10	21.85	30.00	-8.15

Table 7-54. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	19.82	3.70	23.52	30.00	-6.48
	6185	47	AVG	19.26	3.70	22.96	30.00	-7.04
	6345	79	AVG	18.89	3.70	22.59	30.00	-7.41
	6665	143	AVG	18.47	3.10	21.57	30.00	-8.43

Table 7-55. Antenna WF7a 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

7.3.3 CDD/SDM Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	0.24	0.55	3.41	4.40	7.81	24.00	-16.19
	6175	45	SDM	AVG	0.31	-0.17	3.09	4.40	7.49	24.00	-16.51
	6415	93	SDM	AVG	2.50	2.50	5.51	4.40	9.91	24.00	-14.09
	6435	97	SDM	AVG	2.00	2.25	5.14	3.01	8.15	24.00	-15.85
	6475	105	SDM	AVG	2.25	2.25	5.26	3.01	8.27	24.00	-15.73
	6515	113	SDM	AVG	2.09	2.25	5.18	3.01	8.19	24.00	-15.81
	6535	117	SDM	AVG	2.75	2.75	5.76	2.63	8.39	24.00	-15.61
	6695	149	SDM	AVG	2.73	2.62	5.69	2.63	8.32	24.00	-15.68
	6875	185	SDM	AVG	2.03	2.75	5.41	2.63	8.04	24.00	-15.96
	6895	189	SDM	AVG	3.72	3.75	6.74	2.36	9.10	24.00	-14.90
	6995	209	SDM	AVG	3.64	3.55	6.61	2.36	8.97	24.00	-15.03
	7115	233	SDM	AVG	3.52	3.75	6.65	2.36	9.01	24.00	-14.99

Table 7-56. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	0.00	0.65	3.35	4.40	7.75	24.00	-16.25
	6175	45	SDM	AVG	-0.03	-0.10	2.94	4.40	7.34	24.00	-16.66
	6415	93	SDM	AVG	2.50	2.41	5.46	4.40	9.86	24.00	-14.14
	6435	97	SDM	AVG	2.05	2.25	5.16	3.01	8.17	24.00	-15.83
	6475	105	SDM	AVG	2.25	2.25	5.26	3.01	8.27	24.00	-15.73
	6515	113	SDM	AVG	2.07	2.25	5.17	3.01	8.18	24.00	-15.82
	6535	117	SDM	AVG	2.75	2.61	5.69	2.63	8.32	24.00	-15.68
	6695	149	SDM	AVG	2.61	2.47	5.55	2.63	8.18	24.00	-15.82
	6875	185	SDM	AVG	2.16	2.75	5.48	2.63	8.11	24.00	-15.89
	6895	189	SDM	AVG	3.75	3.75	6.76	2.36	9.12	24.00	-14.88
	6995	209	SDM	AVG	3.75	3.75	6.76	2.36	9.12	24.00	-14.88
	7115	233	SDM	AVG	3.60	3.75	6.69	2.36	9.05	24.00	-14.95

Table 7-57. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	-0.01	0.60	3.32	4.40	7.72	24.00	-16.28
	6175	45	SDM	AVG	-0.03	-0.16	2.92	4.40	7.32	24.00	-16.68
	6415	93	SDM	AVG	2.50	2.31	5.42	4.40	9.82	24.00	-14.18
	6435	97	SDM	AVG	2.21	2.25	5.24	3.01	8.25	24.00	-15.75
	6475	105	SDM	AVG	2.25	2.02	5.15	3.01	8.16	24.00	-15.84
	6515	113	SDM	AVG	2.25	2.22	5.25	3.01	8.26	24.00	-15.74
	6535	117	SDM	AVG	2.54	2.57	5.57	2.63	8.20	24.00	-15.80
	6695	149	SDM	AVG	2.56	2.65	5.61	2.63	8.24	24.00	-15.76
	6875	185	SDM	AVG	2.75	2.73	5.75	2.63	8.38	24.00	-15.62
	6895	189	SDM	AVG	3.75	3.60	6.68	2.36	9.04	24.00	-14.96
	6995	209	SDM	AVG	3.75	3.67	6.72	2.36	9.08	24.00	-14.92
	7115	233	SDM	AVG	3.75	3.75	6.76	2.36	9.12	24.00	-14.88

Table 7-58. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	4.00	3.76	6.89	4.40	11.29	24.00	-12.71
	6165	43	SDM	AVG	4.66	4.52	7.60	4.40	12.00	24.00	-12.00
	6405	91	SDM	AVG	5.50	5.34	8.43	4.40	12.83	24.00	-11.17
	6445	99	SDM	AVG	5.19	5.25	8.23	3.01	11.24	24.00	-12.76
	6485	107	SDM	AVG	5.19	4.93	8.07	3.01	11.08	24.00	-12.92
	6525	115	SDM	AVG	5.21	5.03	8.13	3.01	11.14	24.00	-12.86
	6565	123	SDM	AVG	5.50	5.73	8.63	2.63	11.26	24.00	-12.74
	6725	155	SDM	AVG	5.60	5.75	8.69	2.63	11.32	24.00	-12.68
	6845	179	SDM	AVG	5.75	5.70	8.73	2.63	11.36	24.00	-12.64
	6885	187	SDM	AVG	5.67	5.74	8.72	2.36	11.08	24.00	-12.92
	7005	211	SDM	AVG	6.62	6.75	9.69	2.36	12.05	24.00	-11.95
	7085	227	SDM	AVG	6.75	6.75	9.76	2.36	12.12	24.00	-11.88

Table 7-59. SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	4.00	3.83	6.93	4.40	11.33	24.00	-12.67
	6165	43	SDM	AVG	4.68	4.74	7.72	4.40	12.12	24.00	-11.88
	6405	91	SDM	AVG	5.04	5.49	8.28	4.40	12.68	24.00	-11.32
	6445	99	SDM	AVG	4.98	5.25	8.13	3.01	11.14	24.00	-12.86
	6485	107	SDM	AVG	5.25	5.25	8.26	3.01	11.27	24.00	-12.73
	6525	115	SDM	AVG	5.25	4.99	8.13	3.01	11.14	24.00	-12.86
	6565	123	SDM	AVG	5.56	5.75	8.67	2.63	11.30	24.00	-12.70
	6725	155	SDM	AVG	5.69	5.55	8.63	2.63	11.26	24.00	-12.74
	6845	179	SDM	AVG	5.64	5.53	8.60	2.63	11.23	24.00	-12.77
	6885	187	SDM	AVG	5.75	5.64	8.71	2.36	11.07	24.00	-12.93
	7005	211	SDM	AVG	6.75	6.75	9.76	2.36	12.12	24.00	-11.88
	7085	227	SDM	AVG	6.72	6.75	9.75	2.36	12.11	24.00	-11.89

Table 7-60. SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	4.00	3.92	6.97	4.40	11.37	24.00	-12.63
	6165	43	SDM	AVG	4.75	4.75	7.76	4.40	12.16	24.00	-11.84
	6405	91	SDM	AVG	5.40	5.47	8.44	4.40	12.84	24.00	-11.16
	6445	99	SDM	AVG	5.13	5.02	8.09	3.01	11.10	24.00	-12.90
	6485	107	SDM	AVG	5.25	5.21	8.24	3.01	11.25	24.00	-12.75
	6525	115	SDM	AVG	5.25	5.04	8.16	3.01	11.17	24.00	-12.83
	6565	123	SDM	AVG	5.75	5.61	8.69	2.63	11.32	24.00	-12.68
	6725	155	SDM	AVG	5.60	5.75	8.69	2.63	11.32	24.00	-12.68
	6845	179	SDM	AVG	5.73	5.53	8.64	2.63	11.27	24.00	-12.73
	6885	187	SDM	AVG	5.75	5.55	8.66	2.36	11.02	24.00	-12.98
	7005	211	SDM	AVG	6.55	6.75	9.66	2.36	12.02	24.00	-11.98
	7085	227	SDM	AVG	6.75	6.75	9.76	2.36	12.12	24.00	-11.88

Table 7-61. SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
5GHz (80MHz Bandwidth)	5985	7	SDM	AVG	7.00	6.82	9.92	4.40	14.32	24.00	-9.68
	6145	39	SDM	AVG	7.75	7.65	10.71	4.40	15.11	24.00	-8.89
	6385	87	SDM	AVG	8.50	8.50	11.51	4.40	15.91	24.00	-8.09
	6465	103	SDM	AVG	8.25	8.20	11.23	3.01	14.24	24.00	-9.76
	6545	119	SDM	AVG	8.18	8.14	11.17	2.63	13.80	24.00	-10.20
	6705	151	SDM	AVG	8.37	8.58	11.49	2.63	14.12	24.00	-9.88
	6865	183	SDM	AVG	8.51	8.60	11.57	2.63	14.20	24.00	-9.80
	6945	199	SDM	AVG	9.58	9.57	12.58	2.36	14.94	24.00	-9.06
	7025	215	SDM	AVG	9.75	9.60	12.69	2.36	15.05	24.00	-8.95

Table 7-62. SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
5GHz (80MHz Bandwidth)	5985	7	SDM	AVG	7.00	7.00	10.01	4.40	14.41	24.00	-9.59
	6145	39	SDM	AVG	7.75	7.62	10.70	4.40	15.10	24.00	-8.90
	6385	87	SDM	AVG	8.50	8.32	11.42	4.40	15.82	24.00	-8.18
	6465	103	SDM	AVG	8.19	8.25	11.23	3.01	14.24	24.00	-9.76
	6545	119	SDM	AVG	8.13	8.25	11.20	2.63	13.83	24.00	-10.17
	6705	151	SDM	AVG	8.70	8.75	11.73	2.63	14.36	24.00	-9.64
	6865	183	SDM	AVG	8.62	8.54	11.59	2.63	14.22	24.00	-9.78
	6945	199	SDM	AVG	9.64	9.75	12.71	2.36	15.07	24.00	-8.93
	7025	215	SDM	AVG	9.64	9.75	12.70	2.36	15.06	24.00	-8.94

Table 7-63. SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
5GHz (80MHz Bandwidth)	5985	7	SDM	AVG	7.00	7.00	10.01	4.40	14.41	24.00	-9.59
	6145	39	SDM	AVG	7.63	7.75	10.70	4.40	15.10	24.00	-8.90
	6385	87	SDM	AVG	8.47	8.45	11.47	4.40	15.87	24.00	-8.13
	6465	103	SDM	AVG	8.10	8.15	11.14	3.01	14.15	24.00	-9.85
	6545	119	SDM	AVG	8.08	8.01	11.05	2.63	13.68	24.00	-10.32
	6705	151	SDM	AVG	8.53	8.59	11.57	2.63	14.20	24.00	-9.80
	6865	183	SDM	AVG	8.61	8.75	11.69	2.63	14.32	24.00	-9.68
	6945	199	SDM	AVG	9.75	9.73	12.75	2.36	15.11	24.00	-8.89
	7025	215	SDM	AVG	9.69	9.52	12.62	2.36	14.98	24.00	-9.02

Table 7-64. SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
5GHz (160MHz Bandwidth)	6025	15	SDM	AVG	9.45	9.50	12.49	4.40	16.89	24.00	-7.11
	6185	47	SDM	AVG	10.25	10.25	13.26	4.40	17.66	24.00	-6.34
	6345	79	SDM	AVG	10.93	10.94	13.94	4.40	18.34	24.00	-5.66
	6505	111	SDM	AVG	10.66	10.75	13.72	3.01	16.73	24.00	-7.27
	6665	143	SDM	AVG	11.10	11.17	14.15	2.63	16.78	24.00	-7.22
	6825	175	SDM	AVG	11.25	11.02	14.15	2.63	16.78	24.00	-7.22
	6985	207	SDM	AVG	12.09	12.08	15.10	2.36	17.46	24.00	-6.54

Table 7-65. SDM 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Low Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
5GHz (160MHz Bandwidth)	6025	15	SDM	AVG	9.50	9.33	12.43	4.40	16.83	24.00	-7.17
	6185	47	SDM	AVG	10.25	10.07	13.17	4.40	17.57	24.00	-6.43
	6345	79	SDM	AVG	10.90	11.00	13.96	4.40	18.36	24.00	-5.64
	6505	111	SDM	AVG	10.75	10.75	13.76	3.01	16.77	24.00	-7.23
	6665	143	SDM	AVG	11.22	11.01	14.12	2.63	16.75	24.00	-7.25
	6825	175	SDM	AVG	11.25	11.25	14.26	2.63	16.89	24.00	-7.11
	6985	207	SDM	AVG	12.07	12.25	15.17	2.36	17.53	24.00	-6.47

Table 7-66. SDM 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (Mid Data Rate)

	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 8	Antenna 7a	Summed				
5GHz (160MHz Bandwidth)	6025	15	SDM	AVG	9.46	9.50	12.49	4.40	16.89	24.00	-7.11
	6185	47	SDM	AVG	10.24	10.25	13.25	4.40	17.65	24.00	-6.35
	6345	79	SDM	AVG	10.85	10.86	13.87	4.40	18.27	24.00	-5.73
	6505	111	SDM	AVG	10.75	10.67	13.72	3.01	16.73	24.00	-7.27
	6665	143	SDM	AVG	11.02	11.09	14.06	2.63	16.69	24.00	-7.31
	6825	175	SDM	AVG	11.11	11.06	14.10	2.63	16.73	24.00	-7.27
	6985	207	SDM	AVG	12.14	12.20	15.18	2.36	17.54	24.00	-6.46

Table 7-67. SDM 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Low Power Indoor (High Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	18.95	18.75	21.86	4.40	26.26	30.00	-3.74
	6175	45	SDM	AVG	19.50	19.40	22.46	4.40	26.86	30.00	-3.14
	6415	93	SDM	AVG	19.21	19.14	22.18	4.40	26.58	30.00	-3.42
	6535	117	SDM	AVG	18.70	18.69	21.70	2.63	24.33	30.00	-5.67
	6695	149	SDM	AVG	19.00	18.79	21.91	2.63	24.54	30.00	-5.46

Table 7-68. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	19.00	19.00	22.01	4.40	26.41	30.00	-3.59
	6175	45	SDM	AVG	19.34	19.56	22.46	4.40	26.86	30.00	-3.14
	6415	93	SDM	AVG	19.22	19.13	22.19	4.40	26.59	30.00	-3.41
	6535	117	SDM	AVG	18.60	18.70	21.66	2.63	24.29	30.00	-5.71
	6695	149	SDM	AVG	18.86	18.77	21.83	2.63	24.46	30.00	-5.54

Table 7-69. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5955	1	SDM	AVG	19.00	18.97	21.99	4.40	26.39	30.00	-3.61
	6175	45	SDM	AVG	19.36	19.31	22.34	4.40	26.74	30.00	-3.26
	6415	93	SDM	AVG	19.05	19.01	22.04	4.40	26.44	30.00	-3.56
	6535	117	SDM	AVG	18.55	18.57	21.57	2.63	24.20	30.00	-5.80
	6695	149	SDM	AVG	18.73	18.76	21.75	2.63	24.38	30.00	-5.62

Table 7-70. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	19.21	19.74	22.49	4.40	26.89	30.00	-3.11
	6165	43	SDM	AVG	19.77	19.76	22.77	4.40	27.17	30.00	-2.83
	6405	91	CDD	AVG	19.58	19.30	22.45	5.00	27.45	30.00	-2.55
	6565	123	CDD	AVG	18.90	18.79	21.86	3.10	24.96	30.00	-5.04
	6725	155	CDD	AVG	19.04	19.30	22.18	3.10	25.28	30.00	-4.72
	6845	179	CDD	AVG	19.21	19.40	22.32	3.10	25.42	30.00	-4.58

Table 7-71. CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	19.34	19.78	22.57	4.40	26.97	30.00	-3.03
	6165	43	SDM	AVG	19.63	20.00	22.83	4.40	27.23	30.00	-2.77
	6405	91	CDD	AVG	19.66	19.22	22.46	5.00	27.46	30.00	-2.54
	6565	123	CDD	AVG	19.03	18.84	21.95	3.10	25.05	30.00	-4.95
	6725	155	CDD	AVG	18.86	19.29	22.09	3.10	25.19	30.00	-4.81
	6845	179	CDD	AVG	19.23	19.50	22.38	3.10	25.48	30.00	-4.52

Table 7-72. CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5965	3	SDM	AVG	19.30	19.71	22.52	4.40	26.92	30.00	-3.08
	6165	43	SDM	AVG	19.76	19.75	22.76	4.40	27.16	30.00	-2.84
	6405	91	CDD	AVG	19.53	19.31	22.43	5.00	27.43	30.00	-2.57
	6565	123	CDD	AVG	19.05	18.67	21.87	3.10	24.97	30.00	-5.03
	6725	155	CDD	AVG	18.92	19.33	22.14	3.10	25.24	30.00	-4.76
	6845	179	CDD	AVG	19.22	19.50	22.37	3.10	25.47	30.00	-4.53

Table 7-73. CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5985	7	CDD	AVG	19.51	20.00	22.77	5.00	27.77	30.00	-2.23
	6145	39	CDD	AVG	19.47	19.71	22.60	5.00	27.60	30.00	-2.40
	6385	87	CDD	AVG	19.33	19.62	22.49	5.00	27.49	30.00	-2.51
	6705	151	CDD	AVG	18.77	19.16	21.98	3.10	25.08	30.00	-4.92

Table 7-74. CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5985	7	CDD	AVG	19.40	19.97	22.70	5.00	27.70	30.00	-2.30
	6145	39	CDD	AVG	19.73	20.00	22.88	5.00	27.88	30.00	-2.12
	6385	87	CDD	AVG	19.34	19.69	22.53	5.00	27.53	30.00	-2.47
	6705	151	CDD	AVG	18.91	19.28	22.11	3.10	25.21	30.00	-4.79

Table 7-75. CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	5985	7	CDD	AVG	19.34	19.83	22.60	5.00	27.60	30.00	-2.40
	6145	39	CDD	AVG	19.49	19.70	22.61	5.00	27.61	30.00	-2.39
	6385	87	CDD	AVG	19.18	19.54	22.37	5.00	27.37	30.00	-2.63
	6705	151	CDD	AVG	18.51	18.95	21.74	3.10	24.84	30.00	-5.16

Table 7-76. CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	6025	15	CDD	AVG	19.72	20.00	22.87	5.00	27.87	30.00	-2.13
	6185	47	CDD	AVG	19.46	19.63	22.56	5.00	27.56	30.00	-2.44
	6345	79	CDD	AVG	19.14	19.38	22.27	5.00	27.27	30.00	-2.73
	6665	143	CDD	AVG	18.96	18.86	21.92	3.10	25.02	30.00	-4.98

Table 7-77. CDD 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Low Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	6025	15	CDD	AVG	19.77	20.00	22.90	5.00	27.90	30.00	-2.10
	6185	47	CDD	AVG	19.52	19.75	22.65	5.00	27.65	30.00	-2.35
	6345	79	CDD	AVG	19.36	19.31	22.34	5.00	27.34	30.00	-2.66
	6665	143	CDD	AVG	19.00	19.01	22.01	3.10	25.11	30.00	-4.89

Table 7-78. CDD 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (Mid Data Rate)

5GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF8	Antenna WF7a	Summed				
	6025	15	CDD	AVG	19.60	19.85	22.74	5.00	27.74	30.00	-2.26
	6185	47	CDD	AVG	19.33	19.58	22.47	5.00	27.47	30.00	-2.53
	6345	79	CDD	AVG	19.14	19.29	22.23	5.00	27.23	30.00	-2.77
	6665	143	CDD	AVG	18.86	18.77	21.83	3.10	24.93	30.00	-5.07

Table 7-79. CDD 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – Standard Power (High Data Rate)

Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna WF8 and Antenna WF7a were first measured separately during 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 C63.10-2013 Section 14.4.3, 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.

Directional gain = GANT + Array Gain dBi

Per ANSI C63.10-2013 Section 14.4.3, 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 output power was measured to be 0.24 dBm for Antenna WF8 and 0.55 dBm for Antenna WF7a.

Antenna WF8 + Antenna WF7a = CDD/SDM

(0.24 dBm + 0.55 dBm) = (1.057 mW + 1.135 mW) = 2.192 mW = 3.41 dBm

Sample e.i.r.p. Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average CDD/SDM conducted power was calculated to be 3.41dBm with directional gain of 4.40 dBi.

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

3.41 dBm + 4.40 dBi = 7.81 dBm

7.4 Maximum Power Spectral Density – 802.11a/ax(SU)

§15.407(a)(8), 15.407(a)(7), RSS-248 [4.5.3], RSS-248 [4.5.5]

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 C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.925 – 7.125GHz band, the maximum permissible power spectral density must not exceed -1dBm e.i.r.p in any 1-megahertz band for Low Power Indoor (LPI) and 17 dBm e.i.r.p in any 1-megahertz band for Standard Power (SP).

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2
KDB 789033 D02 v02r01 – Section F
ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points ≥ 2 x (span/RBW)
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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

Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. The data rates have been classified into three different groups; Low Data Rate, Middle rate, and High Data Rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is reported.

2. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel psd plots have been reported.

7.4.1 Antenna WF8 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	12	-7.84	5.00	-2.84	-1	-1.84
	6175	45	a	12	-6.77	5.00	-1.77	-1	-0.77
	6415	93	a	12	-6.57	5.00	-1.57	-1	-0.57
	5955	1	ax (20MHz)	24/25.8 (MCS2)	-8.21	5.00	-3.21	-1	-2.21
	6175	45	ax (20MHz)	24/25.8 (MCS2)	-7.53	5.00	-2.53	-1	-1.53
	6415	93	ax (20MHz)	24/25.8 (MCS2)	-7.00	5.00	-2.00	-1	-1.00
	5695	3	ax (40MHz)	49/51.6 (MCS2)	-8.34	5.00	-3.34	-1	-2.34
	6165	43	ax (40MHz)	49/51.6 (MCS2)	-7.27	5.00	-2.27	-1	-1.27
	6405	91	ax (40MHz)	49/51.6 (MCS2)	-6.87	5.00	-1.87	-1	-0.87
	5985	7	ax (80MHz)	102/108.1 (MCS2)	-8.26	5.00	-3.26	-1	-2.26
	6145	39	ax (80MHz)	102/108.1 (MCS2)	-7.61	5.00	-2.61	-1	-1.61
	6385	87	ax (80MHz)	102/108.1 (MCS2)	-6.58	5.00	-1.58	-1	-0.58
	6025	15	ax (160MHz)	183.8/216.2 (MCS2)	-8.49	5.00	-3.49	-1	-2.49
	6185	47	ax (160MHz)	183.8/216.2 (MCS2)	-7.24	5.00	-2.24	-1	-1.24
	6345	79	ax (160MHz)	183.8/216.2 (MCS2)	-6.71	5.00	-1.71	-1	-0.71
Band 6	6435	97	a	12	-6.94	2.20	-4.74	-1	-3.74
	6475	105	a	12	-6.77	2.20	-4.57	-1	-3.57
	6515	113	a	12	-6.98	2.20	-4.78	-1	-3.78
	6345	97	ax (20MHz)	24/25.8 (MCS2)	-6.91	2.20	-4.71	-1	-3.71
	6475	105	ax (20MHz)	24/25.8 (MCS2)	-7.24	2.20	-5.04	-1	-4.04
	6515	113	ax (20MHz)	24/25.8 (MCS2)	-7.27	2.20	-5.07	-1	-4.07
	6445	99	ax (40MHz)	49/51.6 (MCS2)	-7.10	2.20	-4.90	-1	-3.90
	6485	107	ax (40MHz)	49/51.6 (MCS2)	-7.28	2.20	-5.08	-1	-4.08
	6525	115	ax (40MHz)	49/51.6 (MCS2)	-7.10	2.20	-4.90	-1	-3.90
	6465	103	ax (80MHz)	102/108.1 (MCS2)	-6.81	2.20	-4.61	-1	-3.61
	6505	111	ax (160MHz)	183.8/216.2 (MCS2)	-6.54	2.20	-4.34	-1	-3.34
Band 7	6535	117	a	12	-6.27	2.10	-4.17	-1	-3.17
	6695	149	a	12	-5.89	2.10	-3.79	-1	-2.79
	6875	185	a	12	-6.02	2.10	-3.92	-1	-2.92
	6535	117	ax (20MHz)	24/25.8 (MCS2)	-6.60	2.10	-4.50	-1	-3.50
	6695	149	ax (20MHz)	24/25.8 (MCS2)	-6.32	2.10	-4.22	-1	-3.22
	6875	185	ax (20MHz)	24/25.8 (MCS2)	-6.67	2.10	-4.57	-1	-3.57
	6565	123	ax (40MHz)	49/51.6 (MCS2)	-6.52	2.10	-4.42	-1	-3.42
	6725	155	ax (40MHz)	49/51.6 (MCS2)	-6.38	2.10	-4.28	-1	-3.28
	6885	179	ax (40MHz)	49/51.6 (MCS2)	-6.32	2.10	-4.22	-1	-3.22
	6545	119	ax (80MHz)	102/108.1 (MCS2)	-6.93	2.10	-4.83	-1	-3.83
	6705	151	ax (80MHz)	102/108.1 (MCS2)	-5.83	2.10	-3.73	-1	-2.73
	6865	183	ax (80MHz)	102/108.1 (MCS2)	-6.13	2.10	-4.03	-1	-3.03
	6665	143	ax (160MHz)	183.8/216.2 (MCS2)	-6.89	2.10	-4.79	-1	-3.79
	6825	175	ax (160MHz)	183.8/216.2 (MCS2)	-6.49	2.10	-4.39	-1	-3.39
Band 8	6895	189	a	12	-4.60	2.10	-2.50	-1	-1.50
	6995	209	a	12	-4.61	2.10	-2.51	-1	-1.51
	7115	233	a	12	-4.25	2.10	-2.15	-1	-1.15
	6895	189	ax (20MHz)	24/25.8 (MCS2)	-5.25	2.10	-3.15	-1	-2.15
	6995	209	ax (20MHz)	24/25.8 (MCS2)	-5.10	2.10	-3.00	-1	-2.00
	7115	233	ax (20MHz)	24/25.8 (MCS2)	-4.92	2.10	-2.82	-1	-1.82
	6925	187	ax (40MHz)	49/51.6 (MCS2)	-6.59	2.10	-4.49	-1	-3.49
	7005	211	ax (40MHz)	49/51.6 (MCS2)	-4.84	2.10	-2.74	-1	-1.74
	7085	227	ax (40MHz)	49/51.6 (MCS2)	-4.79	2.10	-2.69	-1	-1.69
	6945	199	ax (80MHz)	102/108.1 (MCS2)	-4.65	2.10	-2.55	-1	-1.55
	7025	215	ax (80MHz)	102/108.1 (MCS2)	-4.90	2.10	-2.80	-1	-1.80
	6985	207	ax (160MHz)	183.8/216.2 (MCS2)	-5.11	2.10	-3.01	-1	-2.01

Table 7-80. Power Spectral Density Measurements Antenna WF8 Low Power Indoor (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	24	-8.11	5.00	-3.11	-1	-2.11
	6175	45	a	24	-7.20	5.00	-2.20	-1	-1.20
	6415	93	a	24	-6.52	5.00	-1.52	-1	-0.52
	5955	1	ax (20MHz)	49/51.6 (MCS4)	-8.75	5.00	-3.75	-1	-2.75
	6175	45	ax (20MHz)	49/51.6 (MCS4)	-7.69	5.00	-2.69	-1	-1.69
	6415	93	ax (20MHz)	49/51.6 (MCS4)	-6.71	5.00	-1.71	-1	-0.71
	5695	3	ax (40MHz)	98/103.2 (MCS4)	-8.34	5.00	-3.34	-1	-2.34
	6165	43	ax (40MHz)	98/103.2 (MCS4)	-7.50	5.00	-2.50	-1	-1.50
	6405	91	ax (40MHz)	98/103.2 (MCS4)	-6.58	5.00	-1.58	-1	-0.58
	5985	7	ax (80MHz)	204/216.2 (MCS4)	-8.20	5.00	-3.20	-1	-2.20
	6145	39	ax (80MHz)	204/216.2 (MCS4)	-7.37	5.00	-2.37	-1	-1.37
	6385	87	ax (80MHz)	204/216.2 (MCS4)	-6.66	5.00	-1.66	-1	-0.66
	6025	15	ax (160MHz)	367.5/432.4 (MCS4)	-8.29	5.00	-3.29	-1	-2.29
	6185	47	ax (160MHz)	367.5/432.4 (MCS4)	-7.49	5.00	-2.49	-1	-1.49
	6345	79	ax (160MHz)	367.5/432.4 (MCS4)	-6.76	5.00	-1.76	-1	-0.76
Band 6	6435	97	a	24	-6.69	2.20	-4.49	-1	-3.49
	6475	105	a	24	-6.28	2.20	-4.08	-1	-3.08
	6515	113	a	24	-6.68	2.20	-4.48	-1	-3.48
	6345	97	ax (20MHz)	49/51.6 (MCS4)	-7.28	2.20	-5.08	-1	-4.08
	6475	105	ax (20MHz)	49/51.6 (MCS4)	-7.02	2.20	-4.82	-1	-3.82
	6515	113	ax (20MHz)	49/51.6 (MCS4)	-7.21	2.20	-5.01	-1	-4.01
	6445	99	ax (40MHz)	98/103.2 (MCS4)	-6.88	2.20	-4.68	-1	-3.68
	6485	107	ax (40MHz)	98/103.2 (MCS4)	-6.66	2.20	-4.46	-1	-3.46
	6525	115	ax (40MHz)	98/103.2 (MCS4)	-6.79	2.20	-4.59	-1	-3.59
	6465	103	ax (80MHz)	204/216.2 (MCS4)	-6.67	2.20	-4.47	-1	-3.47
	6505	111	ax (160MHz)	367.5/432.4 (MCS4)	-6.64	2.20	-4.44	-1	-3.44
Band 7	6535	117	a	24	-5.89	2.10	-3.79	-1	-2.79
	6695	149	a	24	-5.61	2.10	-3.51	-1	-2.51
	6875	185	a	24	-5.97	2.10	-3.87	-1	-2.87
	6535	117	ax (20MHz)	49/51.6 (MCS4)	-6.63	2.10	-4.53	-1	-3.53
	6695	149	ax (20MHz)	49/51.6 (MCS4)	-6.29	2.10	-4.19	-1	-3.19
	6875	185	ax (20MHz)	49/51.6 (MCS4)	-6.68	2.10	-4.58	-1	-3.58
	6565	123	ax (40MHz)	98/103.2 (MCS4)	-6.57	2.10	-4.47	-1	-3.47
	6725	155	ax (40MHz)	98/103.2 (MCS4)	-6.42	2.10	-4.32	-1	-3.32
	6885	179	ax (40MHz)	98/103.2 (MCS4)	-6.64	2.10	-4.54	-1	-3.54
	6545	119	ax (80MHz)	204/216.2 (MCS4)	-6.80	2.10	-4.70	-1	-3.70
	6705	151	ax (80MHz)	204/216.2 (MCS4)	-6.26	2.10	-4.16	-1	-3.16
	6865	183	ax (80MHz)	204/216.2 (MCS4)	-6.31	2.10	-4.21	-1	-3.21
	6665	143	ax (160MHz)	367.5/432.4 (MCS4)	-6.79	2.10	-4.69	-1	-3.69
	6825	175	ax (160MHz)	367.5/432.4 (MCS4)	-6.43	2.10	-4.33	-1	-3.33
Band 8	6895	189	a	24	-4.60	2.10	-2.50	-1	-1.50
	6995	209	a	24	-4.65	2.10	-2.55	-1	-1.55
	7115	233	a	24	-4.55	2.10	-2.45	-1	-1.45
	6895	189	ax (20MHz)	49/51.6 (MCS4)	-5.01	2.10	-2.91	-1	-1.91
	6995	209	ax (20MHz)	49/51.6 (MCS4)	-5.01	2.10	-2.91	-1	-1.91
	7115	233	ax (20MHz)	49/51.6 (MCS4)	-4.75	2.10	-2.65	-1	-1.65
	6925	187	ax (40MHz)	98/103.2 (MCS4)	-6.24	2.10	-4.14	-1	-3.14
	7005	211	ax (40MHz)	98/103.2 (MCS4)	-4.93	2.10	-2.83	-1	-1.83
	7085	227	ax (40MHz)	98/103.2 (MCS4)	-4.52	2.10	-2.42	-1	-1.42
	6945	199	ax (80MHz)	204/216.2 (MCS4)	-4.67	2.10	-2.57	-1	-1.57
	7025	215	ax (80MHz)	204/216.2 (MCS4)	-4.70	2.10	-2.60	-1	-1.60
	6985	207	ax (160MHz)	367.5/432.4 (MCS4)	-4.87	2.10	-2.77	-1	-1.77

Table 7-81. Power Spectral Density Measurements Antenna WF8 Low Power Indoor (Mid Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	-7.98	5.00	-2.98	-1	-1.98
	6175	45	a	54	-7.05	5.00	-2.05	-1	-1.05
	6415	93	a	54	-6.68	5.00	-1.68	-1	-0.68
	5955	1	ax (20MHz)	135/143.4 (MCS11)	-8.26	5.00	-3.26	-1	-2.26
	6175	45	ax (20MHz)	135/143.4 (MCS11)	-7.53	5.00	-2.53	-1	-1.53
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-6.64	5.00	-1.64	-1	-0.64
	5695	3	ax (40MHz)	271/286.8 (MCS11)	-8.37	5.00	-3.37	-1	-2.37
	6165	43	ax (40MHz)	271/286.8 (MCS11)	-7.08	5.00	-2.08	-1	-1.08
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-6.63	5.00	-1.63	-1	-0.63
	5985	7	ax (80MHz)	567/600.5 (MCS11)	-7.84	5.00	-2.84	-1	-1.84
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-7.12	5.00	-2.12	-1	-1.12
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-6.54	5.00	-1.54	-1	-0.54
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-8.41	5.00	-3.41	-1	-2.41
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-6.99	5.00	-1.99	-1	-0.99
	6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-6.83	5.00	-1.83	-1	-0.83
Band 6	6435	97	a	54	-6.71	2.20	-4.51	-1	-3.51
	6475	105	a	54	-6.15	2.20	-3.95	-1	-2.95
	6515	113	a	54	-6.44	2.20	-4.24	-1	-3.24
	6345	97	ax (20MHz)	135/143.4 (MCS11)	-7.08	2.20	-4.88	-1	-3.88
	6475	105	ax (20MHz)	135/143.4 (MCS11)	-6.95	2.20	-4.75	-1	-3.75
	6515	113	ax (20MHz)	135/143.4 (MCS11)	-7.35	2.20	-5.15	-1	-4.15
	6445	99	ax (40MHz)	271/286.8 (MCS11)	-6.85	2.20	-4.65	-1	-3.65
	6485	107	ax (40MHz)	271/286.8 (MCS11)	-6.44	2.20	-4.24	-1	-3.24
	6525	115	ax (40MHz)	271/286.8 (MCS11)	-6.85	2.20	-4.65	-1	-3.65
	6465	103	ax (80MHz)	567/600.5 (MCS11)	-6.67	2.20	-4.47	-1	-3.47
	6505	111	ax (160MHz)	1020.8/1201 (MCS11)	-6.71	2.20	-4.51	-1	-3.51
Band 7	6535	117	a	54	-6.21	2.10	-4.11	-1	-3.11
	6695	149	a	54	-5.67	2.10	-3.57	-1	-2.57
	6875	185	a	54	-5.77	2.10	-3.67	-1	-2.67
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-6.32	2.10	-4.22	-1	-3.22
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-6.02	2.10	-3.92	-1	-2.92
	6875	185	ax (20MHz)	135/143.4 (MCS11)	-6.31	2.10	-4.21	-1	-3.21
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-6.43	2.10	-4.33	-1	-3.33
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-5.78	2.10	-3.68	-1	-2.68
	6885	179	ax (40MHz)	271/286.8 (MCS11)	-6.28	2.10	-4.18	-1	-3.18
	6545	119	ax (80MHz)	567/600.5 (MCS11)	-6.86	2.10	-4.76	-1	-3.76
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-5.82	2.10	-3.72	-1	-2.72
	6865	183	ax (80MHz)	567/600.5 (MCS11)	-6.05	2.10	-3.95	-1	-2.95
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-6.77	2.10	-4.67	-1	-3.67
	6825	175	ax (160MHz)	1020.8/1201 (MCS11)	-6.62	2.10	-4.52	-1	-3.52
Band 8	6895	189	a	54	-4.56	2.10	-2.46	-1	-1.46
	6995	209	a	54	-4.28	2.10	-2.18	-1	-1.18
	7115	233	a	54	-4.29	2.10	-2.19	-1	-1.19
	6895	189	ax (20MHz)	135/143.4 (MCS11)	-4.97	2.10	-2.87	-1	-1.87
	6995	209	ax (20MHz)	135/143.4 (MCS11)	-4.80	2.10	-2.70	-1	-1.70
	7115	233	ax (20MHz)	135/143.4 (MCS11)	-4.79	2.10	-2.69	-1	-1.69
	6925	187	ax (40MHz)	271/286.8 (MCS11)	-6.26	2.10	-4.16	-1	-3.16
	7005	211	ax (40MHz)	271/286.8 (MCS11)	-4.95	2.10	-2.85	-1	-1.85
	7085	227	ax (40MHz)	271/286.8 (MCS11)	-4.56	2.10	-2.46	-1	-1.46
	6945	199	ax (80MHz)	567/600.5 (MCS11)	-4.37	2.10	-2.27	-1	-1.27
	7025	215	ax (80MHz)	567/600.5 (MCS11)	-4.87	2.10	-2.77	-1	-1.77
	6985	207	ax (160MHz)	1020.8/1201 (MCS11)	-5.02	2.10	-2.92	-1	-1.92

Table 7-82. Power Spectral Density Measurements Antenna WF8 Low Power Indoor (High Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	12	7.16	5.00	12.16	17	-4.84
	6175	45	a	12	7.55	5.00	12.55	17	-4.45
	6415	93	a	12	7.45	5.00	12.45	17	-4.55
	5955	1	ax (20MHz)	24/25.8 (MCS2)	7.00	5.00	12.00	17	-5.00
	6175	45	ax (20MHz)	24/25.8 (MCS2)	7.12	5.00	12.12	17	-4.88
	6415	93	ax (20MHz)	24/25.8 (MCS2)	7.40	5.00	12.40	17	-4.60
	5965	3	ax (40MHz)	49/51.6 (MCS2)	4.15	5.00	9.15	17	-7.85
	6165	43	ax (40MHz)	49/51.6 (MCS2)	4.86	5.00	9.86	17	-7.14
	6405	91	ax (40MHz)	49/51.6 (MCS2)	4.93	5.00	9.93	17	-7.07
	5985	7	ax (80MHz)	102/108.1 (MCS2)	1.28	5.00	6.28	17	-10.72
	6145	39	ax (80MHz)	102/108.1 (MCS2)	1.76	5.00	6.76	17	-10.24
	6385	87	ax (80MHz)	102/108.1 (MCS2)	1.88	5.00	6.88	17	-10.12
	6025	15	ax (160MHz)	183.8/216.2 (MCS2)	-0.66	5.00	4.34	17	-12.66
	6185	47	ax (160MHz)	183.8/216.2 (MCS2)	-1.04	5.00	3.96	17	-13.04
	6345	79	ax (160MHz)	183.8/216.2 (MCS2)	-1.16	5.00	3.84	17	-13.16
Band 7	6535	117	a	12	7.13	2.10	9.23	17	-7.77
	6695	149	a	12	7.71	2.10	9.81	17	-7.19
	6535	117	ax (20MHz)	24/25.8 (MCS2)	6.89	2.10	8.99	17	-8.01
	6695	149	ax (20MHz)	24/25.8 (MCS2)	7.56	2.10	9.66	17	-7.34
	6565	123	ax (40MHz)	49/51.6 (MCS2)	4.40	2.10	6.50	17	-10.50
	6725	155	ax (40MHz)	49/51.6 (MCS2)	4.86	2.10	6.96	17	-10.04
	6845	179	ax (40MHz)	49/51.6 (MCS2)	5.21	2.10	7.31	17	-9.69
	6705	151	ax (80MHz)	102/108.1 (MCS2)	1.75	2.10	3.85	17	-13.16
	6665	143	ax (160MHz)	183.8/216.2 (MCS2)	-0.84	2.10	1.27	17	-15.74

Table 7-83. Power Spectral Density Measurements Antenna WF8 Standard Power (Low Data Rate)

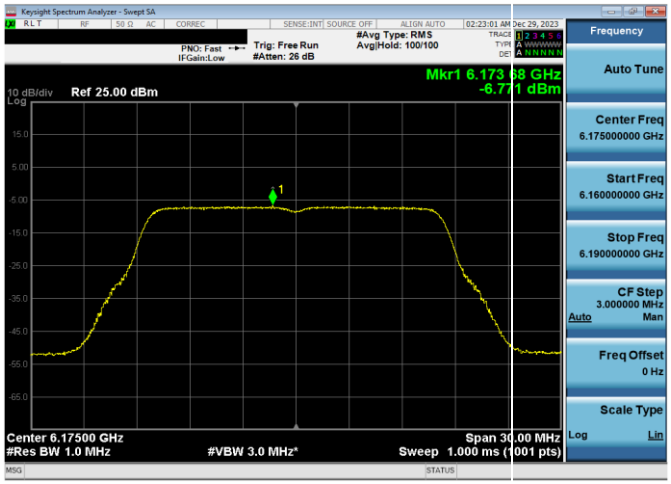
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	24	7.38	5.00	12.38	17	-4.62
	6175	45	a	24	7.82	5.00	12.82	17	-4.18
	6415	93	a	24	7.96	5.00	12.96	17	-4.04
	5955	1	ax (20MHz)	49/51.6 (MCS4)	7.00	5.00	12.00	17	-5.00
	6175	45	ax (20MHz)	49/51.6 (MCS4)	7.64	5.00	12.64	17	-4.36
	6415	93	ax (20MHz)	49/51.6 (MCS4)	7.51	5.00	12.51	17	-4.49
	5965	3	ax (40MHz)	98/103.2 (MCS4)	4.13	5.00	9.13	17	-7.87
	6165	43	ax (40MHz)	98/103.2 (MCS4)	4.87	5.00	9.87	17	-7.14
	6405	91	ax (40MHz)	98/103.2 (MCS4)	4.87	5.00	9.87	17	-7.13
	5985	7	ax (80MHz)	204/216.2 (MCS4)	1.56	5.00	6.56	17	-10.44
	6145	39	ax (80MHz)	204/216.2 (MCS4)	2.03	5.00	7.03	17	-9.97
	6385	87	ax (80MHz)	204/216.2 (MCS4)	2.00	5.00	7.00	17	-10.00
	6025	15	ax (160MHz)	367.5/432.4 (MCS4)	-0.41	5.00	4.59	17	-12.41
	6185	47	ax (160MHz)	367.5/432.4 (MCS4)	-0.79	5.00	4.22	17	-12.79
	6345	79	ax (160MHz)	367.5/432.4 (MCS4)	-1.09	5.00	3.91	17	-13.09
Band 7	6535	117	a	367.5/432.4 (MCS4)	7.35	2.10	9.45	17	-7.55
	6695	149	a	367.5/432.4 (MCS4)	8.04	2.10	10.14	17	-6.86
	6535	117	ax (20MHz)	49/51.6 (MCS4)	7.19	2.10	9.29	17	-7.71
	6695	149	ax (20MHz)	49/51.6 (MCS4)	7.59	2.10	9.69	17	-7.31
	6565	123	ax (40MHz)	98/103.2 (MCS4)	4.56	2.10	6.66	17	-10.34
	6725	155	ax (40MHz)	98/103.2 (MCS4)	4.62	2.10	6.72	17	-10.28
	6845	179	ax (40MHz)	98/103.2 (MCS4)	5.02	2.10	7.12	17	-9.88
	6705	151	ax (80MHz)	204/216.2 (MCS4)	1.96	2.10	4.06	17	-12.95
	6665	143	ax (160MHz)	367.5/432.4 (MCS4)	-0.96	2.10	1.14	17	-15.86

Table 7-84. Power Spectral Density Measurements Antenna WF8 Standard Power (Mid Data Rate)

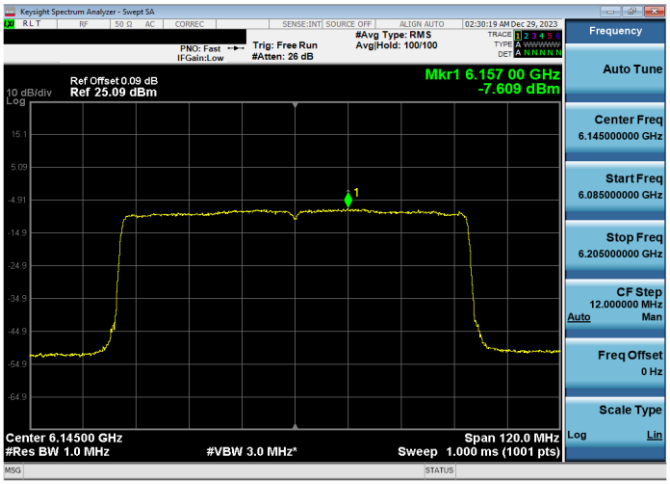
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	7.57	5.00	12.57	17	-4.43
	6175	45	a	54	7.88	5.00	12.88	17	-4.12
	6415	93	a	54	7.83	5.00	12.83	17	-4.17
	5955	1	ax (20MHz)	135/143.4 (MCS11)	7.16	5.00	12.16	17	-4.84
	6175	45	ax (20MHz)	135/143.4 (MCS11)	7.57	5.00	12.57	17	-4.43
	6415	93	ax (20MHz)	135/143.4 (MCS11)	7.49	5.00	12.49	17	-4.52
	5965	3	ax (40MHz)	271/286.8 (MCS11)	4.15	5.00	9.15	17	-7.85
	6165	43	ax (40MHz)	271/286.8 (MCS11)	4.85	5.00	9.85	17	-7.15
	6405	91	ax (40MHz)	271/286.8 (MCS11)	5.03	5.00	10.03	17	-6.97
	5985	7	ax (80MHz)	567/600.5 (MCS11)	1.33	5.00	6.33	17	-10.67
	6145	39	ax (80MHz)	567/600.5 (MCS11)	1.91	5.00	6.91	17	-10.09
	6385	87	ax (80MHz)	567/600.5 (MCS11)	1.77	5.00	6.77	17	-10.23
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-0.53	5.00	4.47	17	-12.53
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-0.75	5.00	4.25	17	-12.75
	6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-1.09	5.00	3.91	17	-13.09
Band 7	6535	117	a	54	7.90	2.10	10.00	17	-7.01
	6695	149	a	54	7.92	2.10	10.02	17	-6.98
	6535	117	ax (20MHz)	135/143.4 (MCS11)	7.12	2.10	9.22	17	-7.78
	6695	149	ax (20MHz)	135/143.4 (MCS11)	7.55	2.10	9.65	17	-7.36
	6565	123	ax (40MHz)	271/286.8 (MCS11)	4.51	2.10	6.61	17	-10.39
	6725	155	ax (40MHz)	271/286.8 (MCS11)	4.70	2.10	6.80	17	-10.20
	6845	179	ax (40MHz)	271/286.8 (MCS11)	5.36	2.10	7.46	17	-9.54
	6705	151	ax (80MHz)	567/600.5 (MCS11)	1.90	2.10	4.00	17	-13.00
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-0.97	2.10	1.13	17	-15.87

Table 7-85. Power Spectral Density Measurements Antenna WF8 Standard Power (High Data Rate)

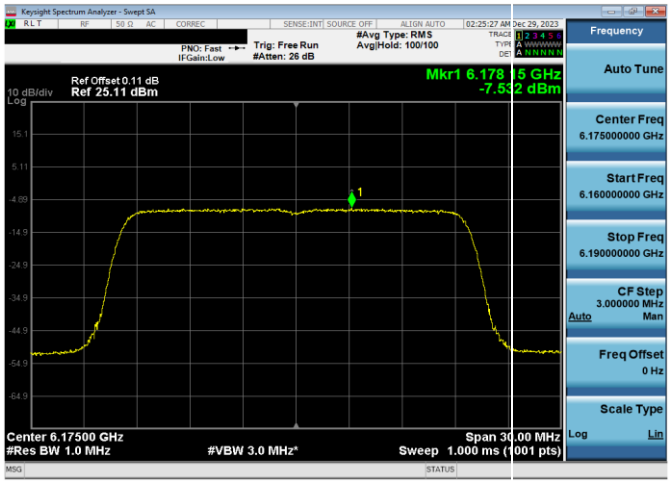
Low Data Rate



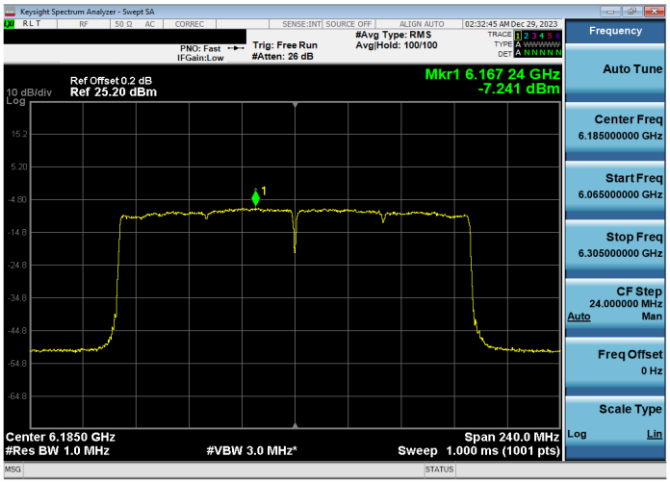
Plot 7-121. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11a (UNII Band 5) – Ch. 45, 12Mbps)



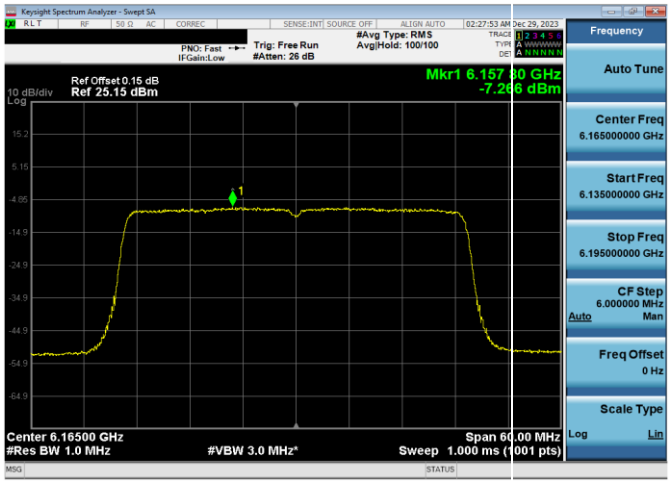
Plot 7-124. Power Spectral Density Plot Antenna WF8 Low Power Indoor (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS2)



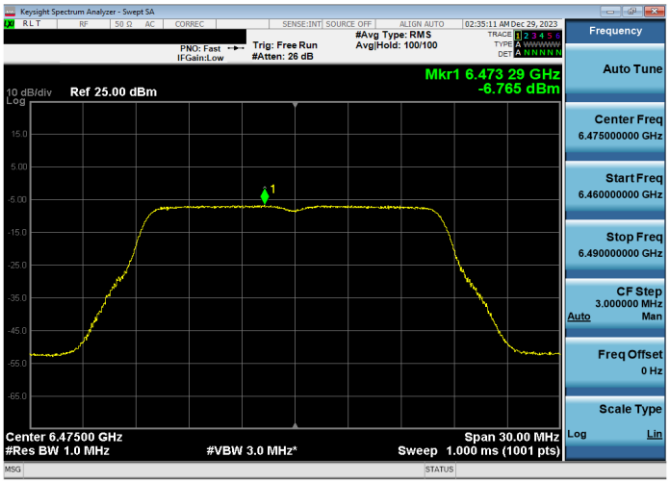
Plot 7-122. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS2)



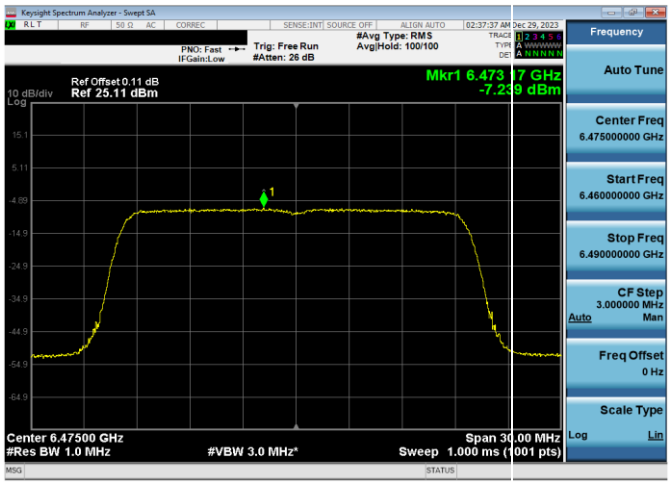
Plot 7-125. Power Spectral Density Plot Antenna WF8 Low Power Indoor (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS2)



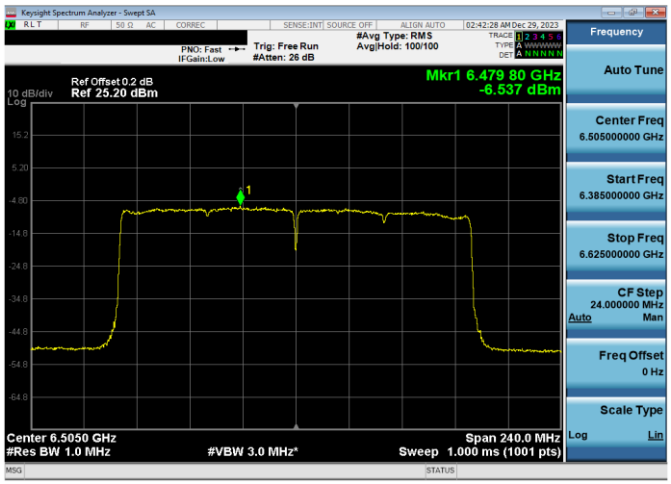
Plot 7-123. Power Spectral Density Plot Antenna WF8 Low Power Indoor (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS2)



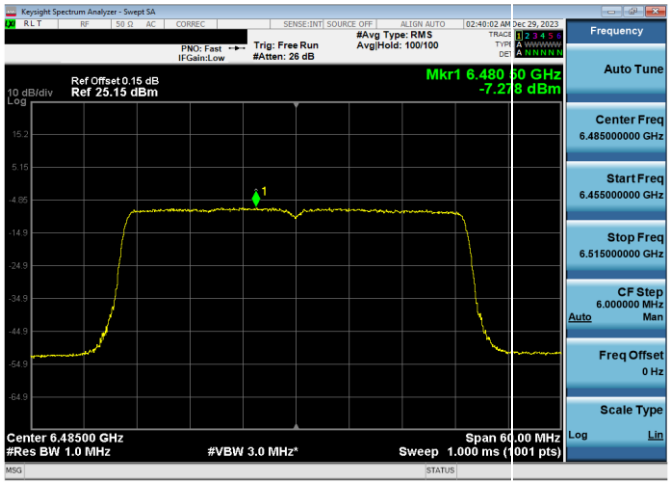
Plot 7-126. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11a (UNII Band 6) – Ch. 105, 12Mbps)



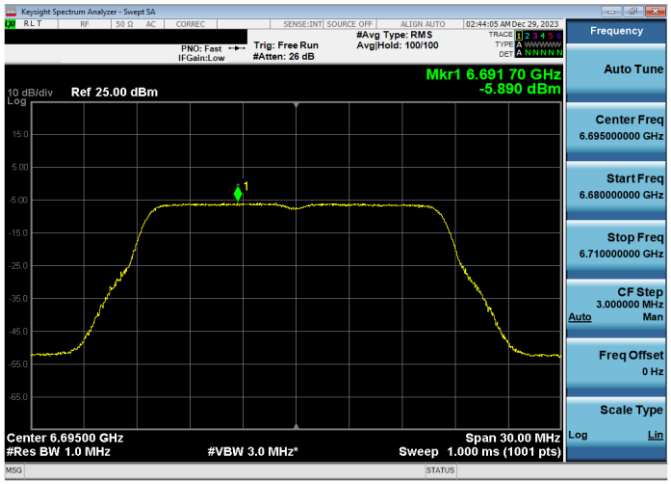
Plot 7-127. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS2)



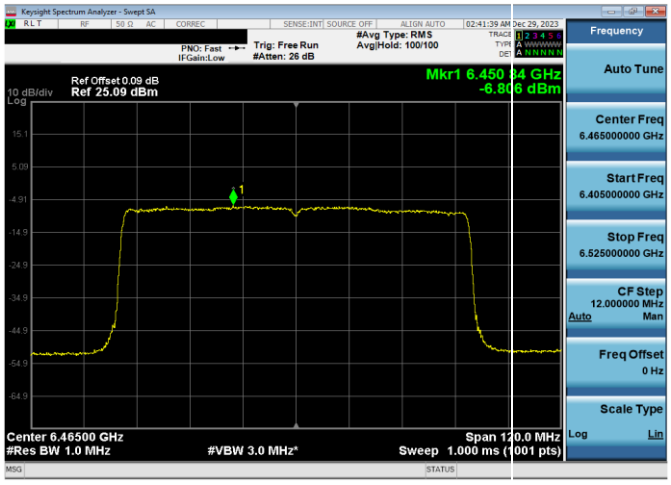
Plot 7-130. Power Spectral Density Plot Antenna WF8 Low Power Indoor (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS2)



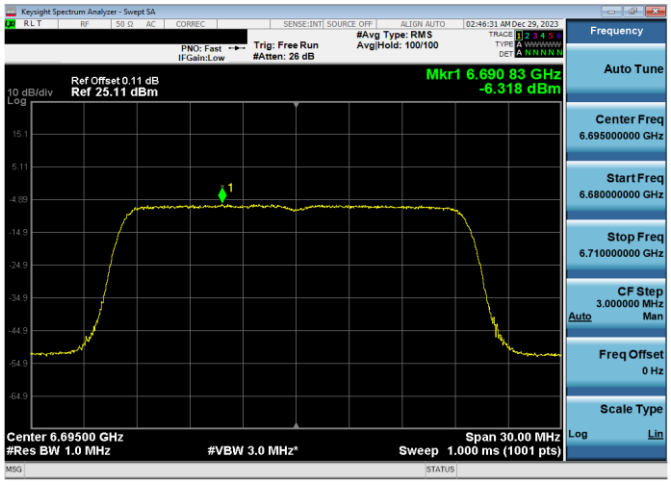
Plot 7-128. Power Spectral Density Plot Antenna WF8 Low Power Indoor (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS2)



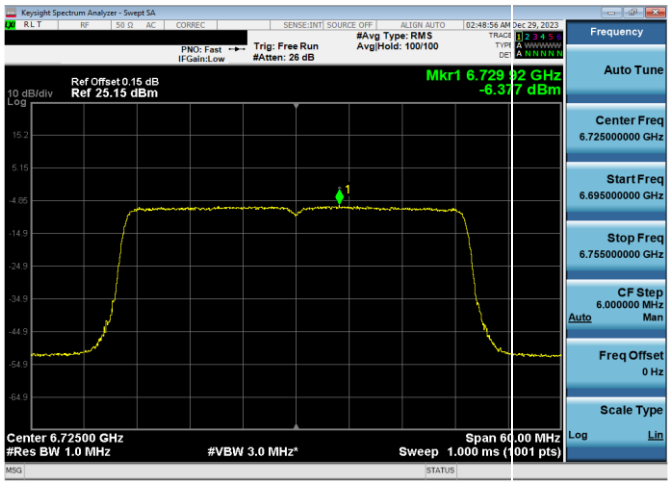
Plot 7-131. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11a (UNII Band 7) – Ch. 149, 12Mbps)



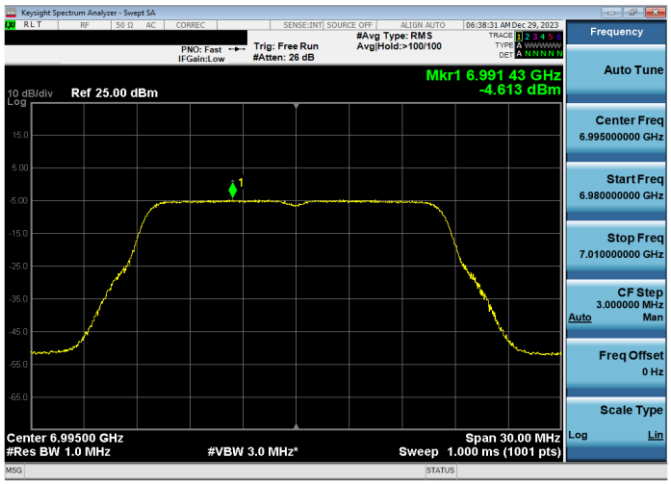
Plot 7-129. Power Spectral Density Plot Antenna WF8 Low Power Indoor (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS2)



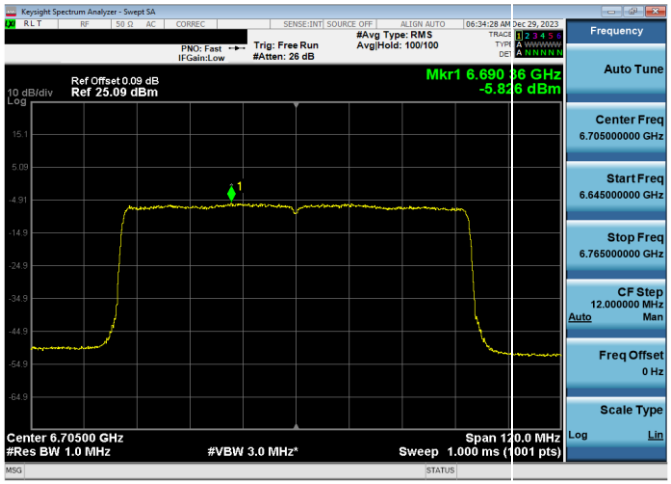
Plot 7-132. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS2)



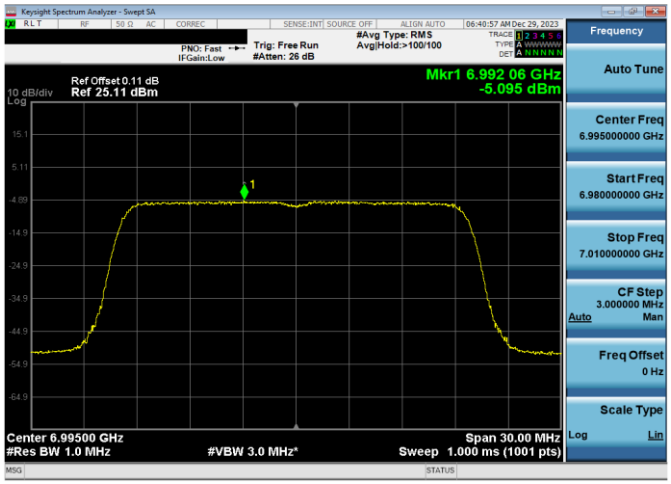
Plot 7-133. Power Spectral Density Plot Antenna WF8 Low Power Indoor (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS2)



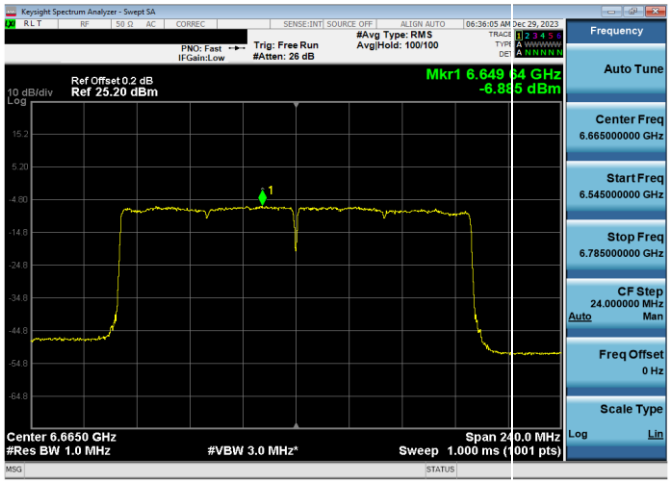
Plot 7-136. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11a (UNII Band 8) – Ch. 209, 12Mbps)



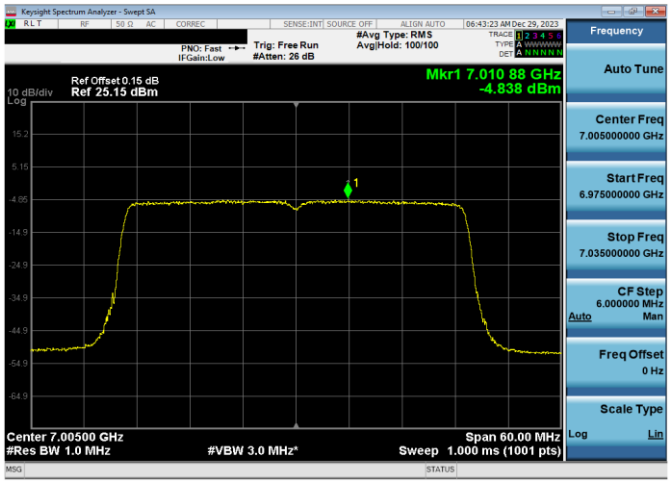
Plot 7-134. Power Spectral Density Plot Antenna WF8 Low Power Indoor (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS2)



Plot 7-137. Power Spectral Density Plot Antenna WF8 Low Power Indoor (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS2)



Plot 7-135. Power Spectral Density Plot Antenna WF8 Low Power Indoor (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS2)



Plot 7-138. Power Spectral Density Plot Antenna WF8 Low Power Indoor (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS2)