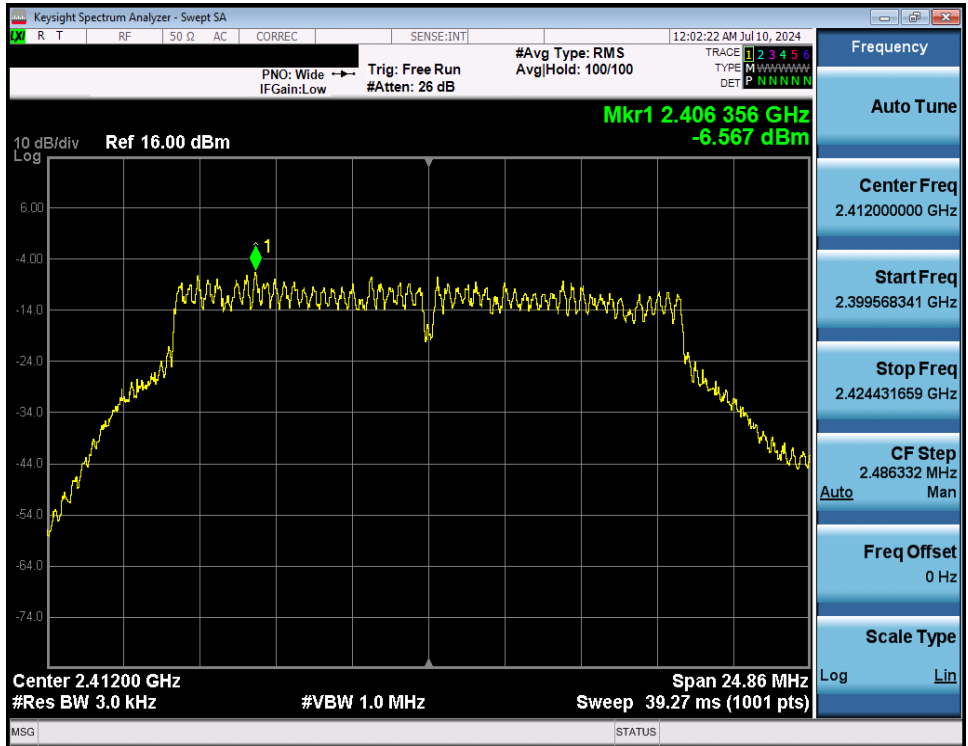
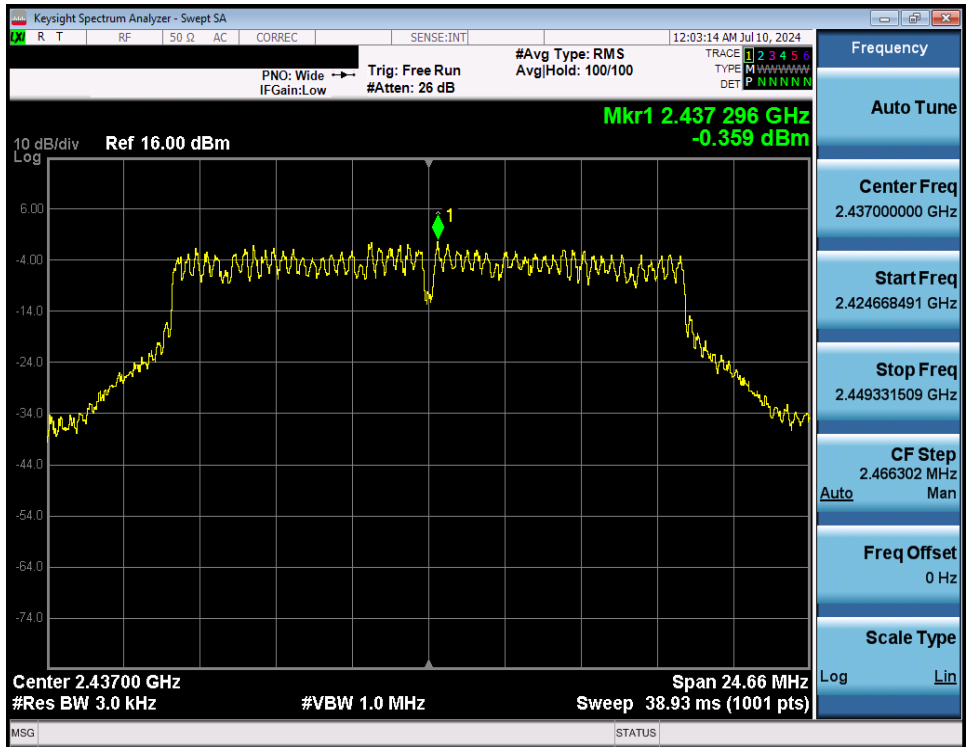


Low Rate

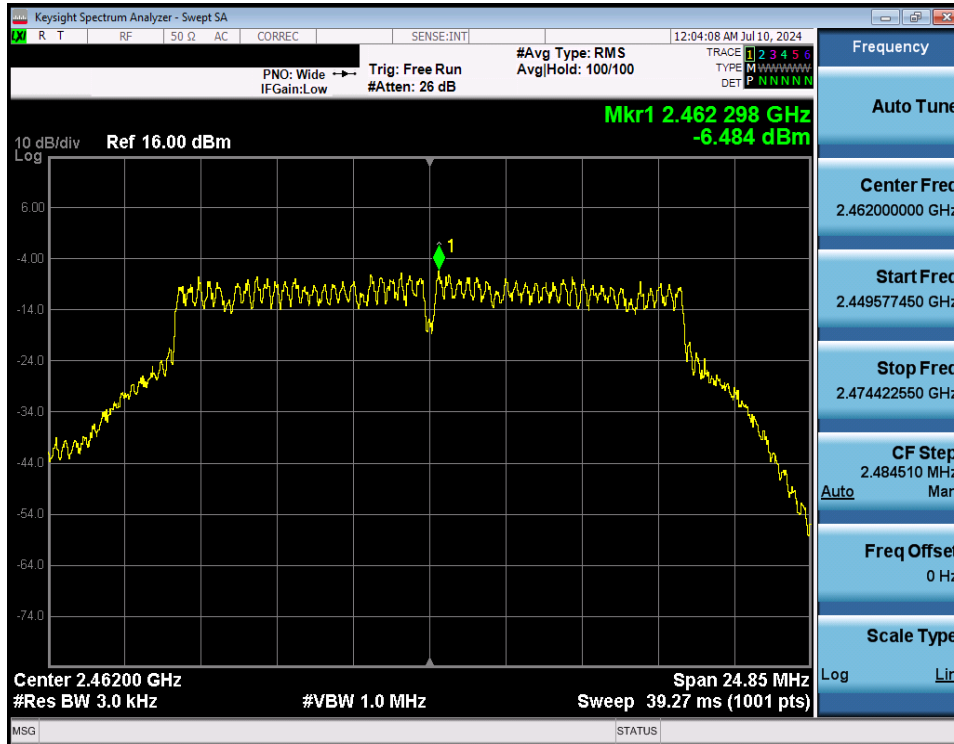


Plot 7-91. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 1) – 12Mbps

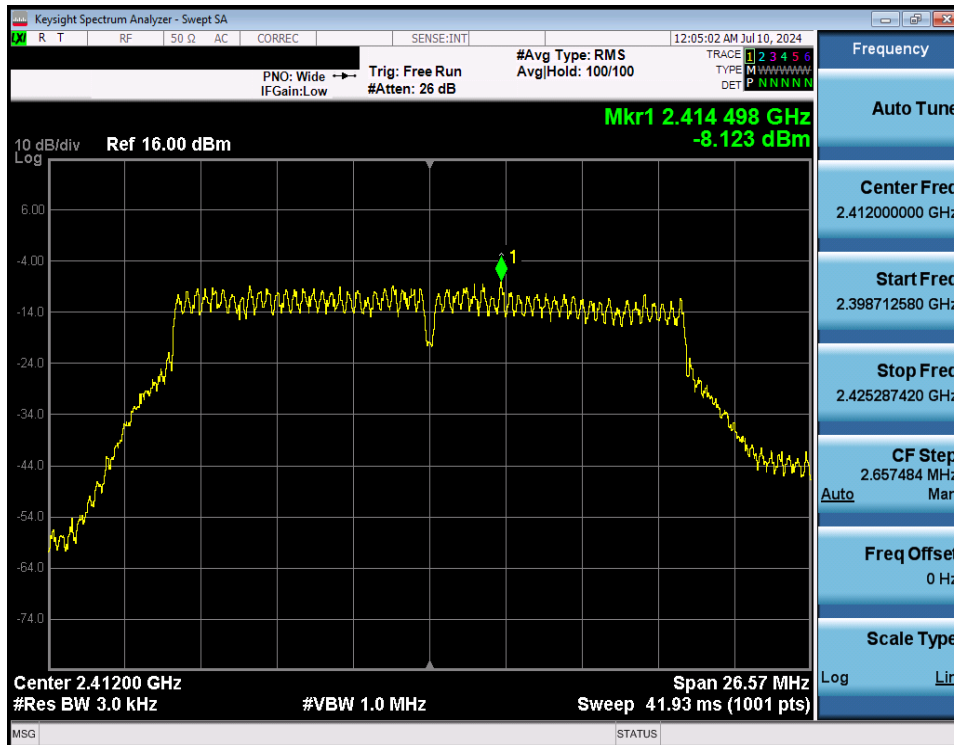


Plot 7-92. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 86 of 431

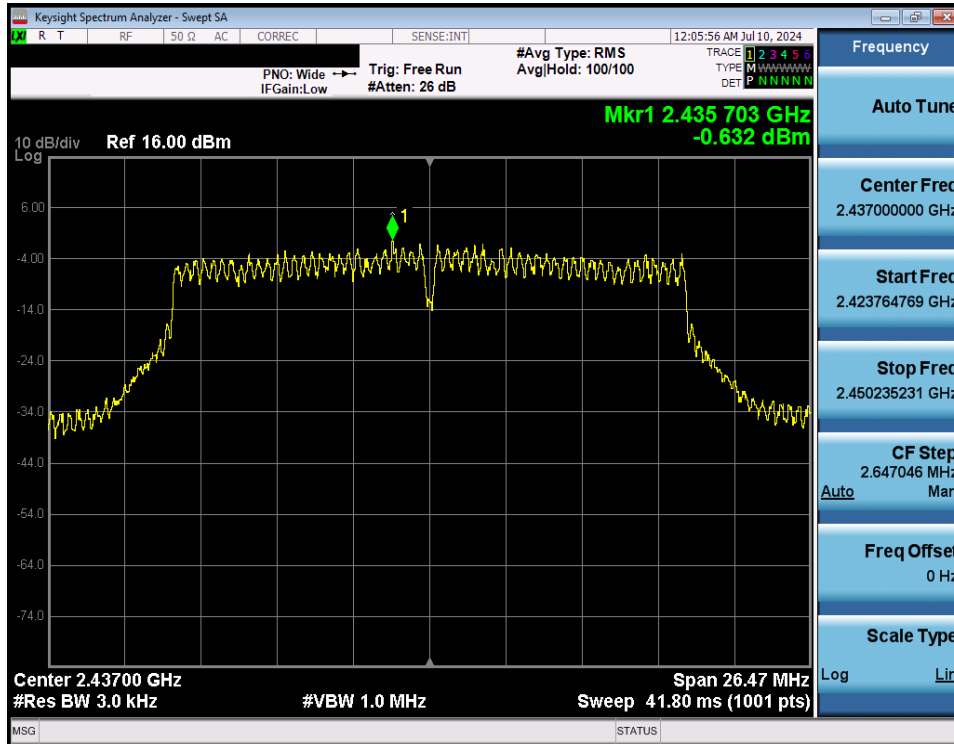


Plot 7-93. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 11) – 12Mbps

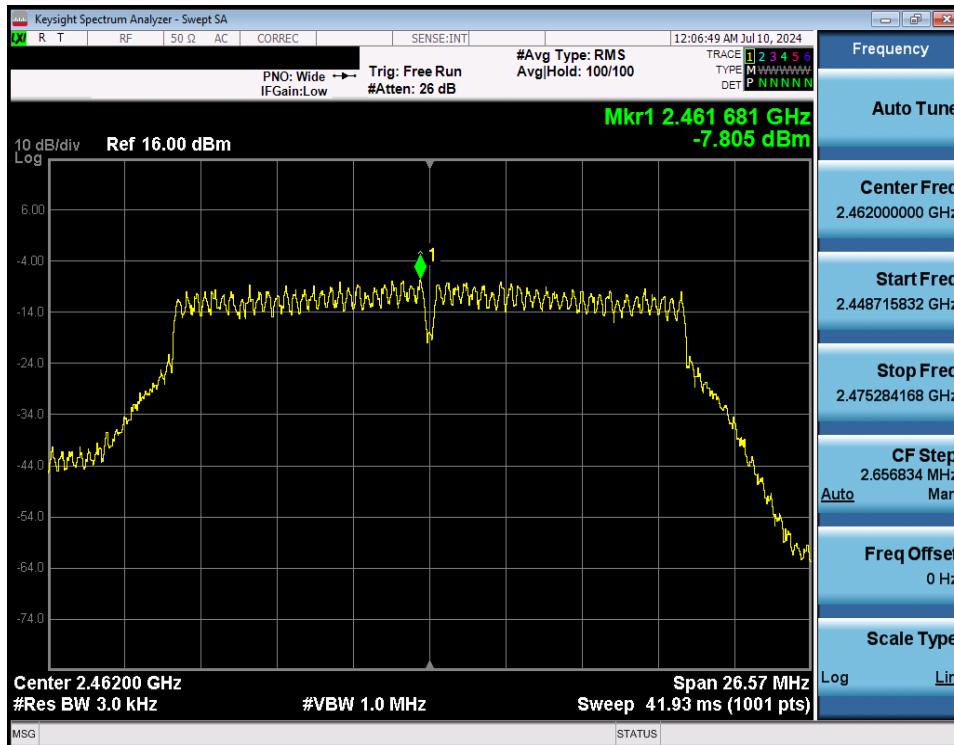


Plot 7-94. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 87 of 431

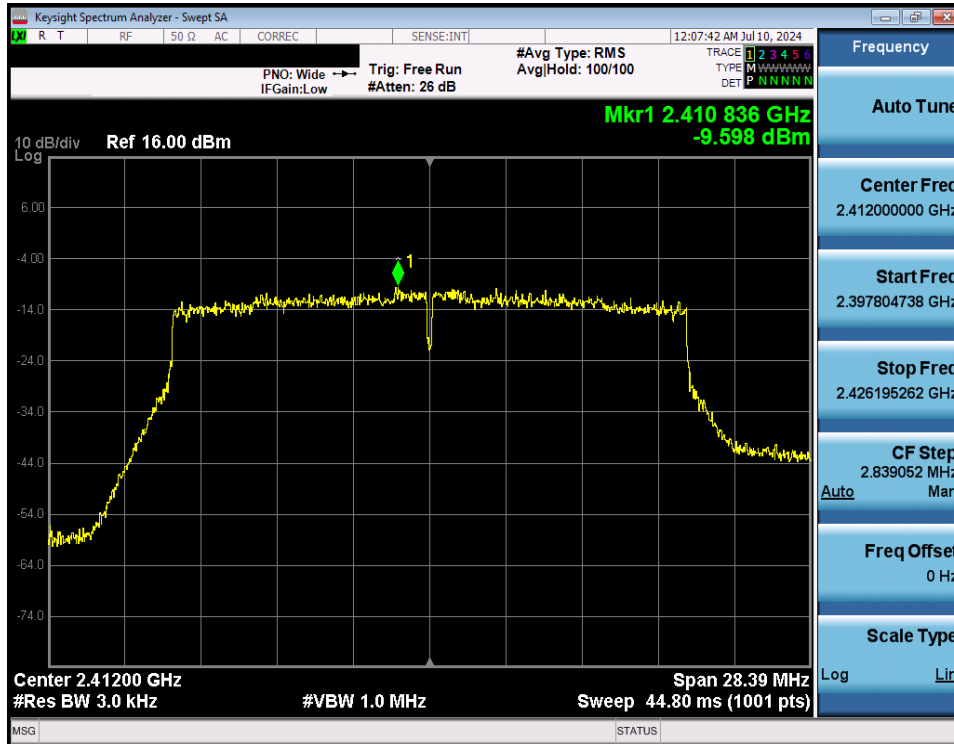


Plot 7-95. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS2

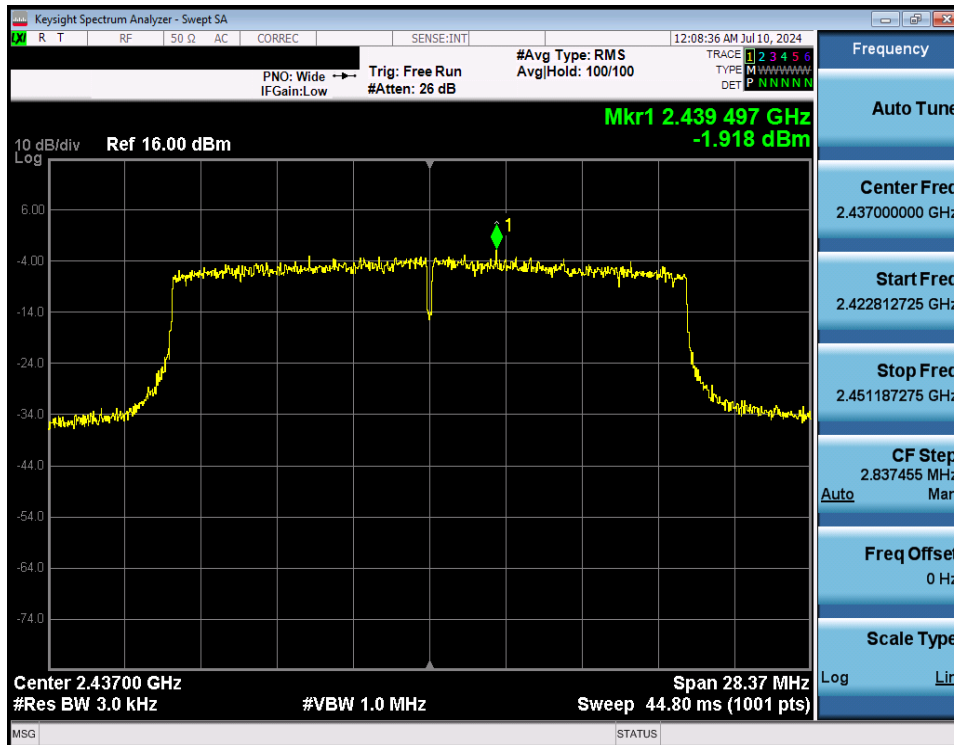


Plot 7-96. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 88 of 431

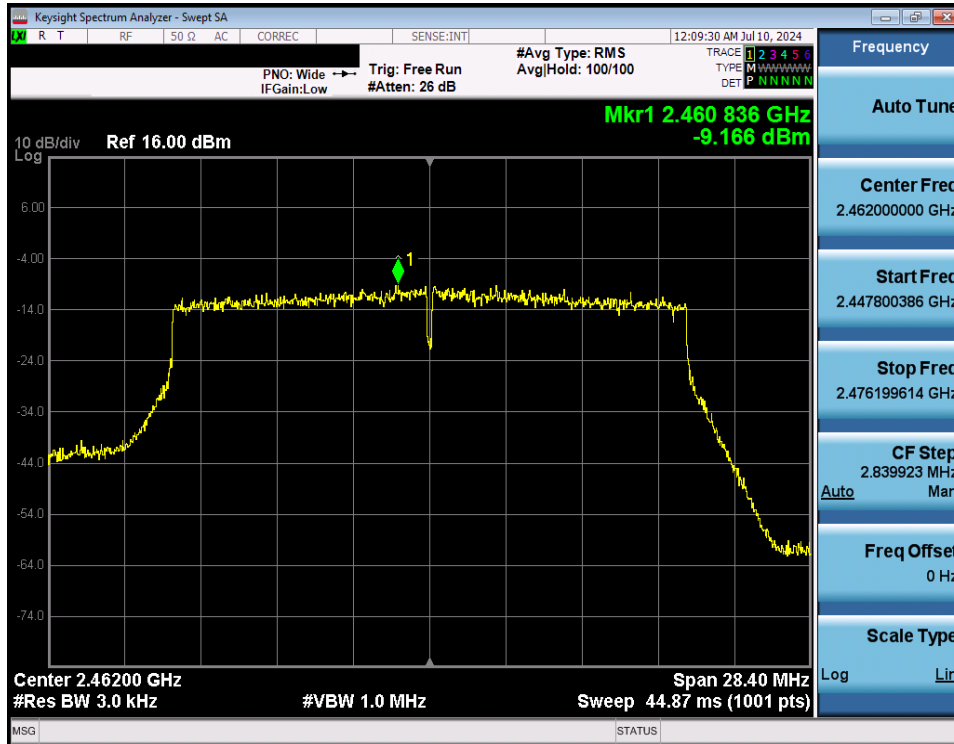


Plot 7-97. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-98. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

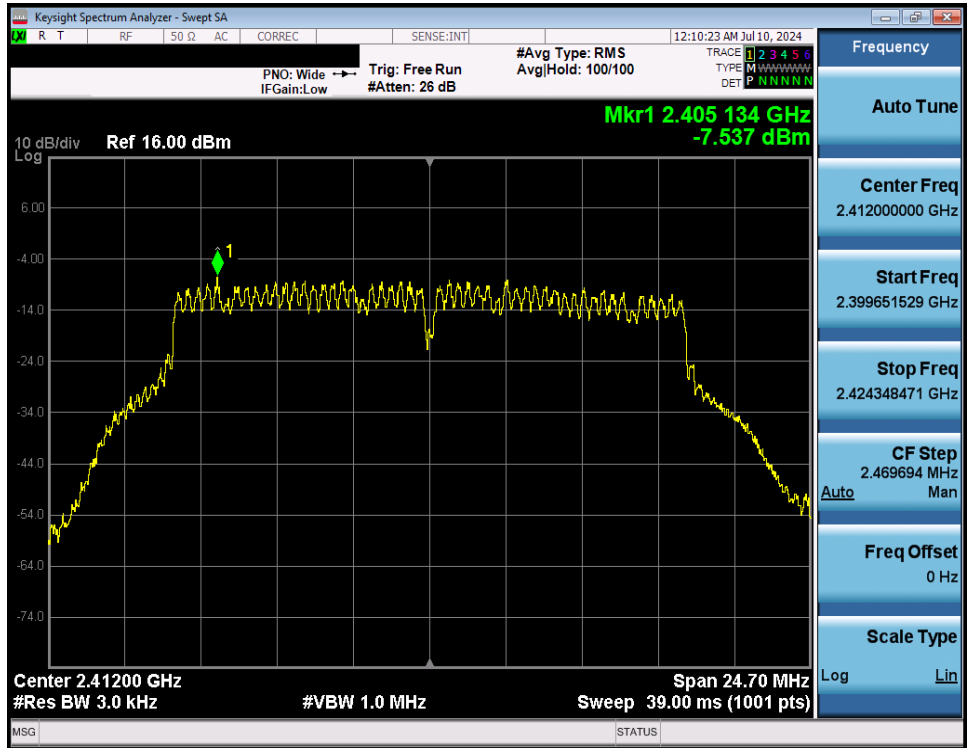
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 89 of 431



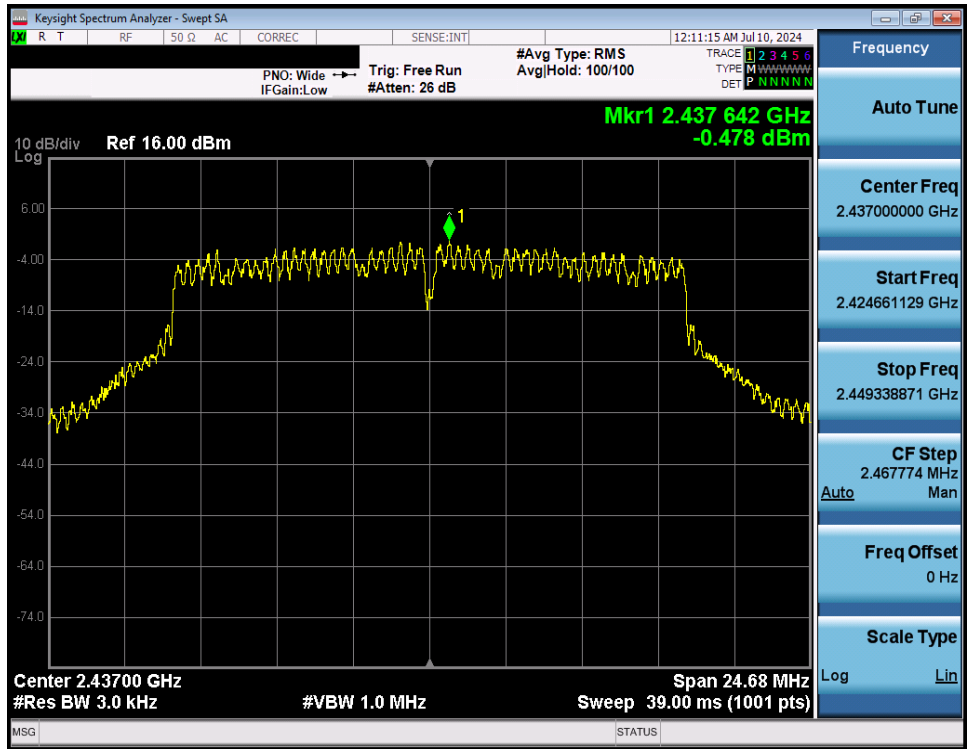
Plot 7-99. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 90 of 431

Mid Rate

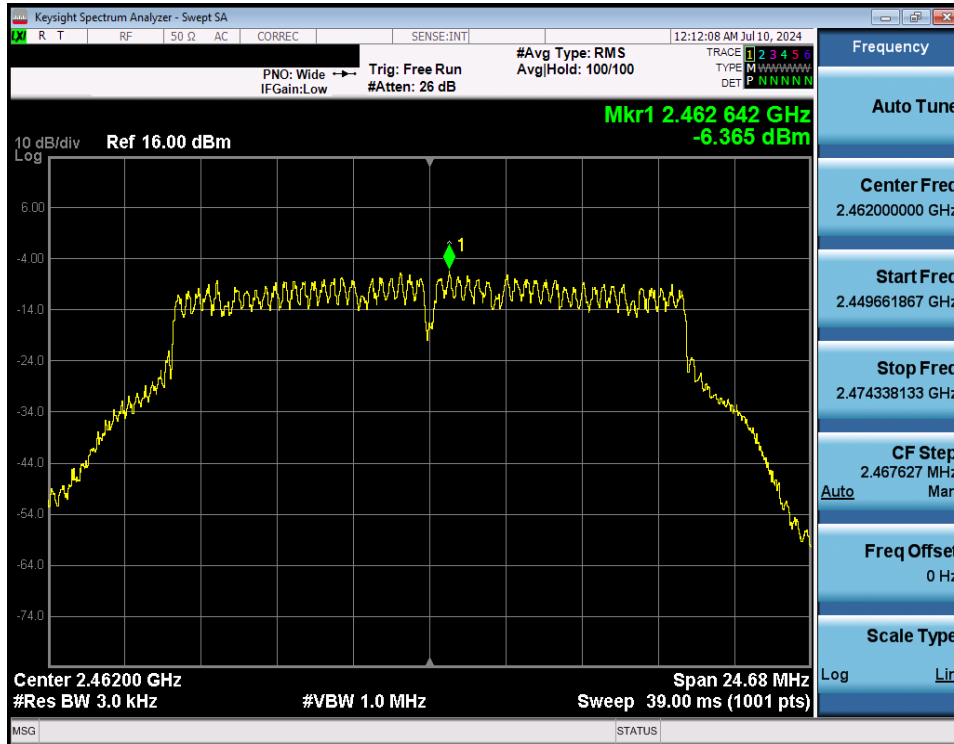


Plot 7-100. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 1) – 24Mbps

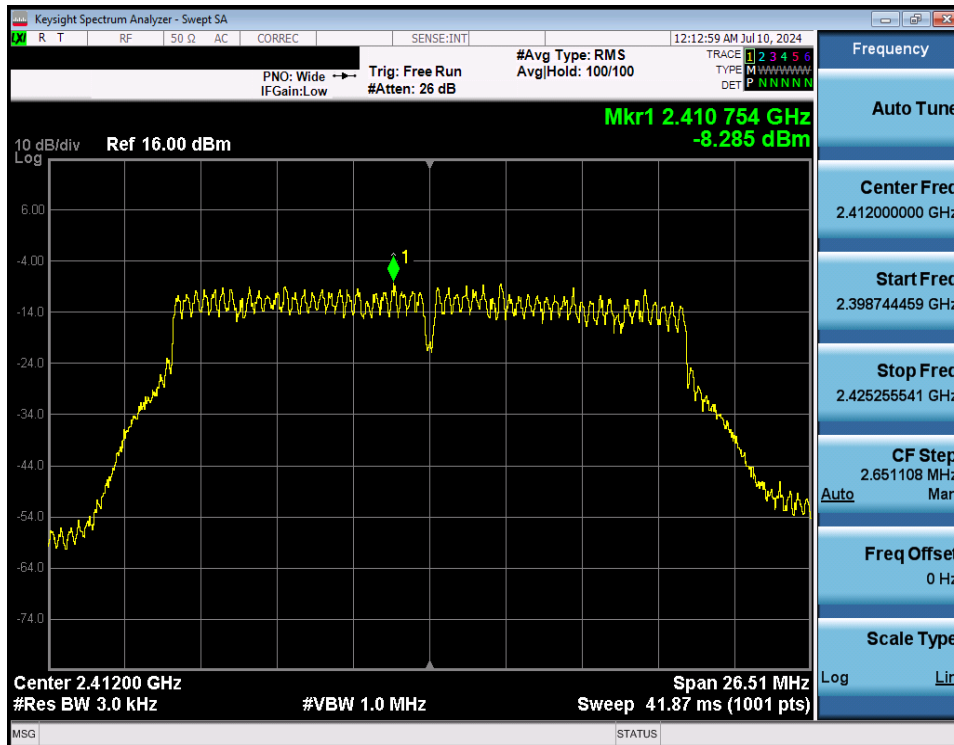


Plot 7-101. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 91 of 431

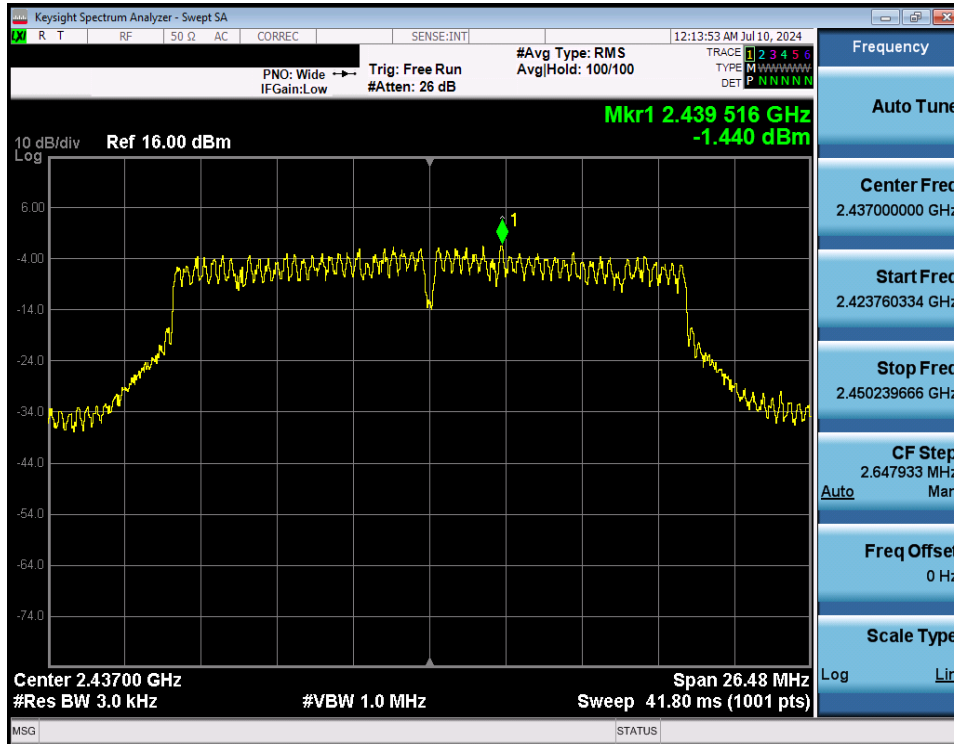


Plot 7-102. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 11) – 24Mbps

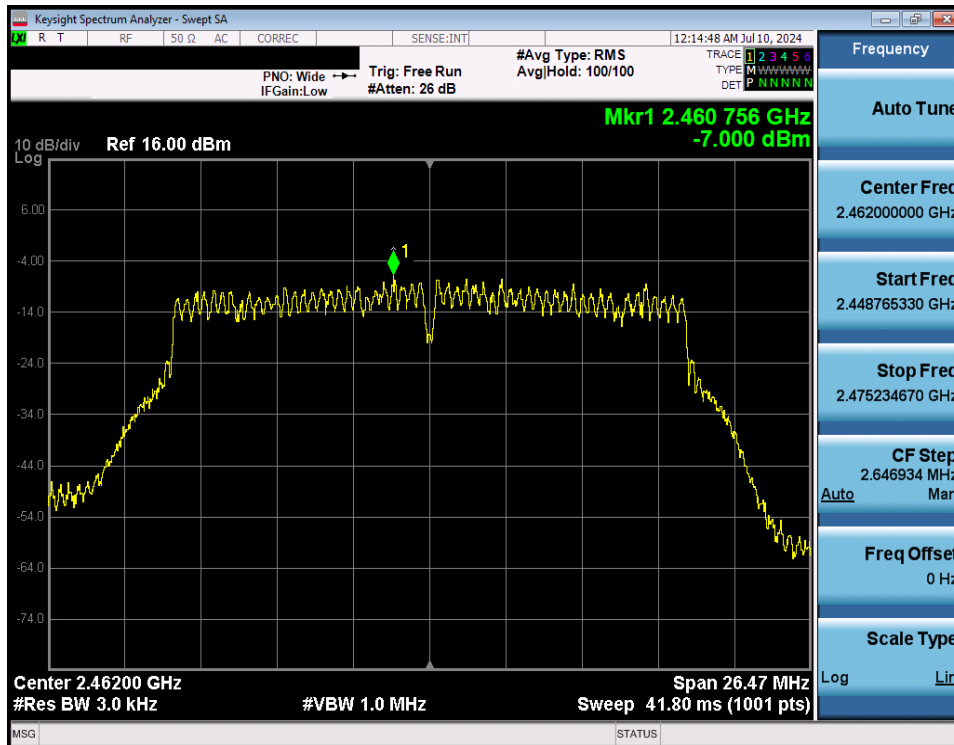


Plot 7-103. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 92 of 431

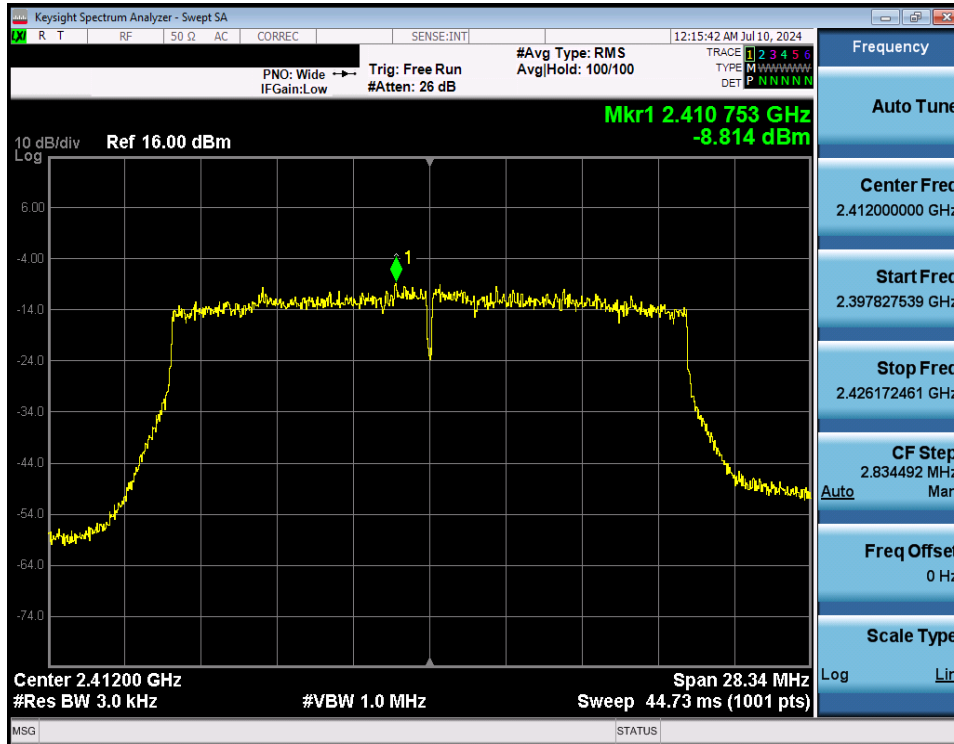


Plot 7-104. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS4

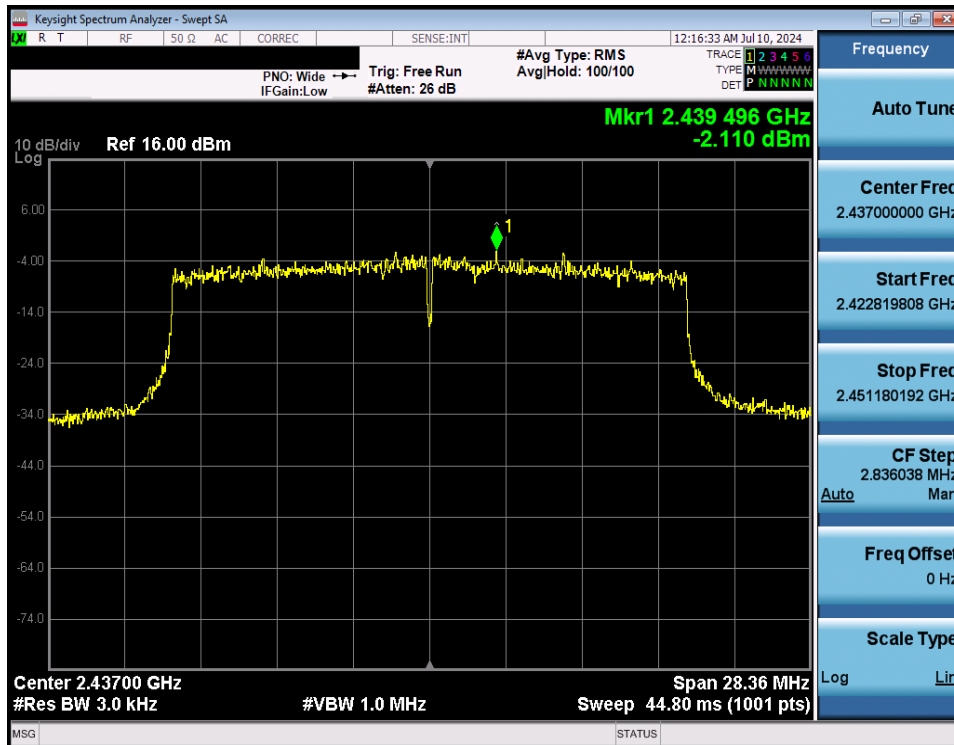


Plot 7-105. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 93 of 431

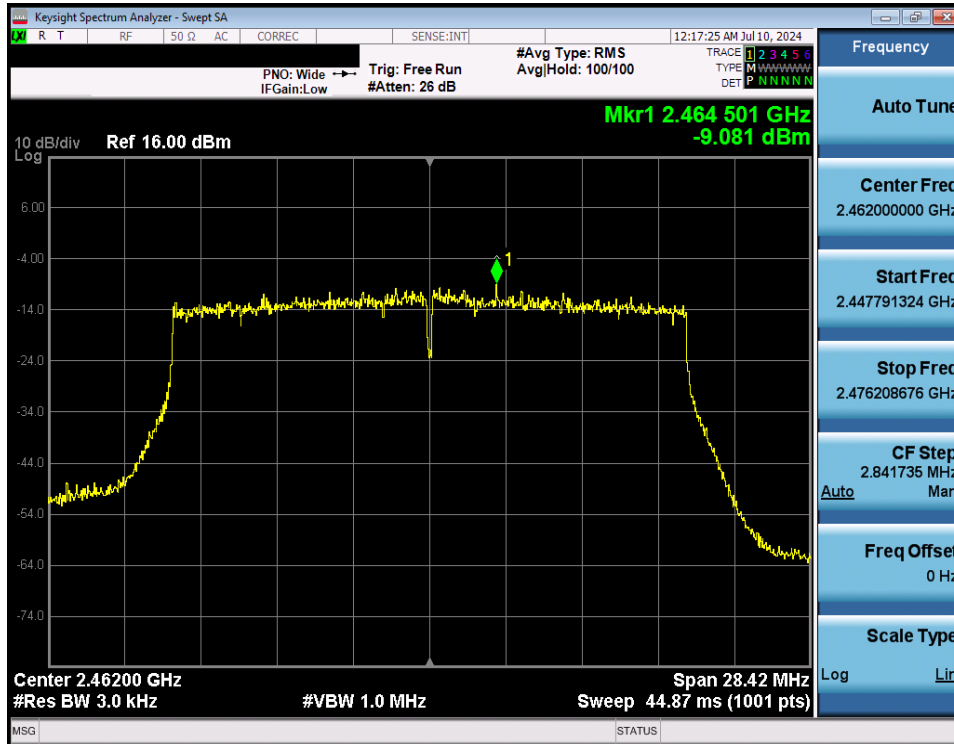


Plot 7-106. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



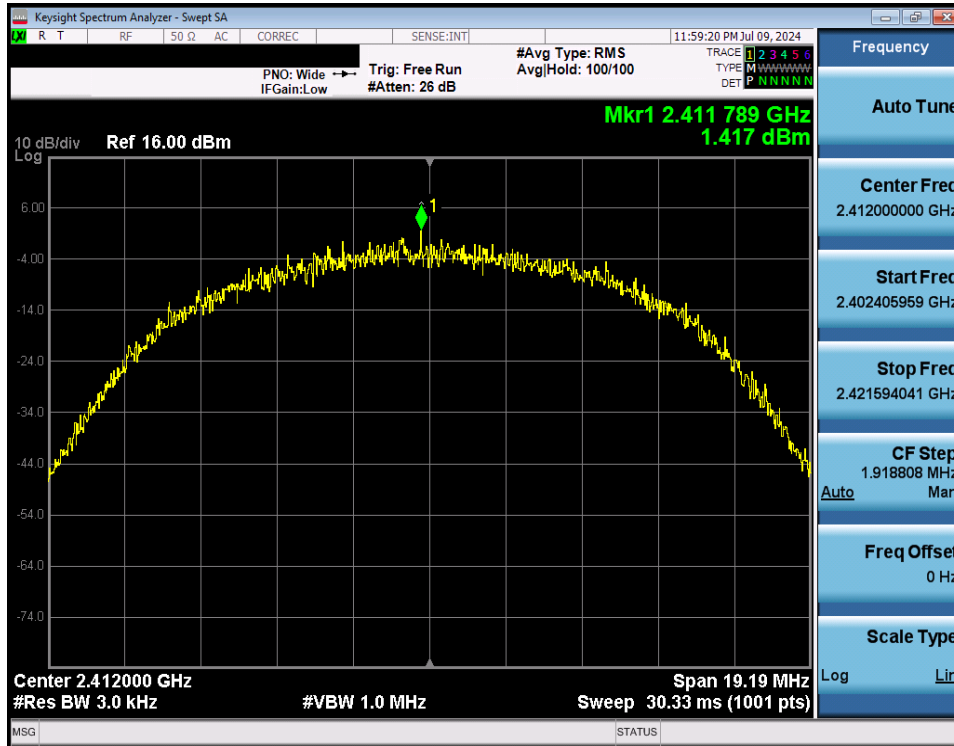
Plot 7-107. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 94 of 431

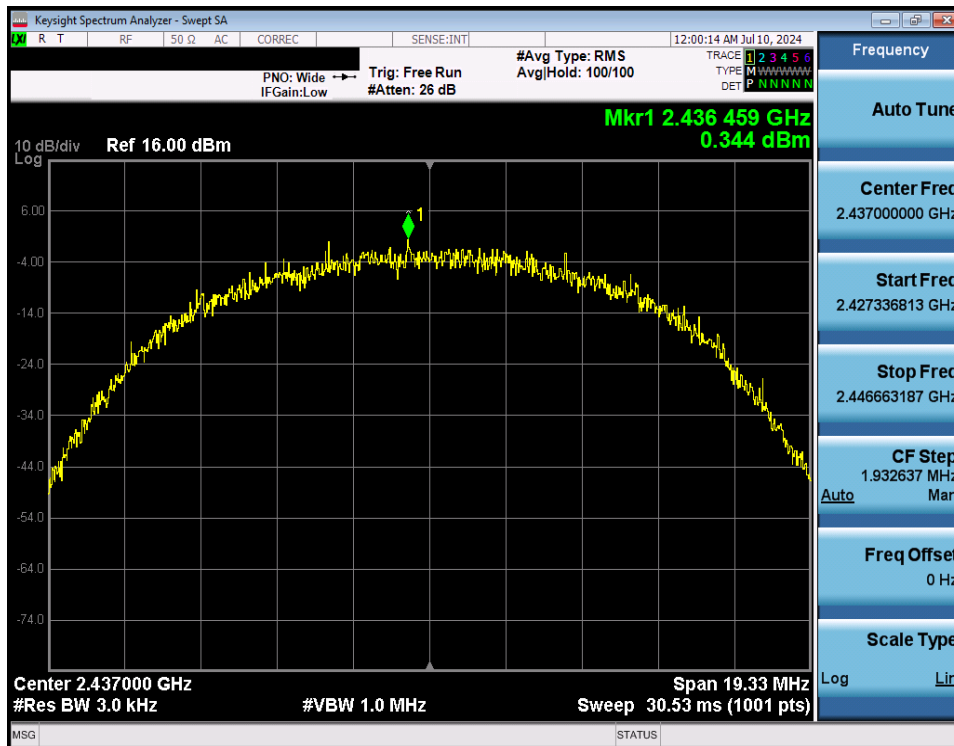


Plot 7-108. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 95 of 431

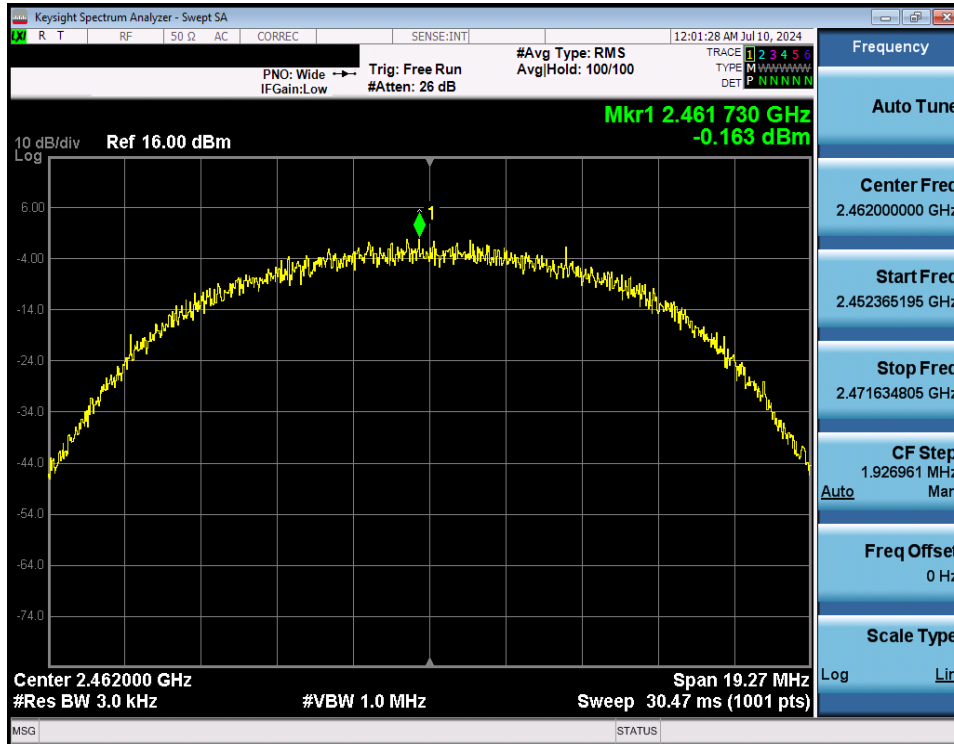


Plot 7-109. Power Spectral Density Plot Antenna WF7 (802.11b – Ch. 1) – 11Mbps

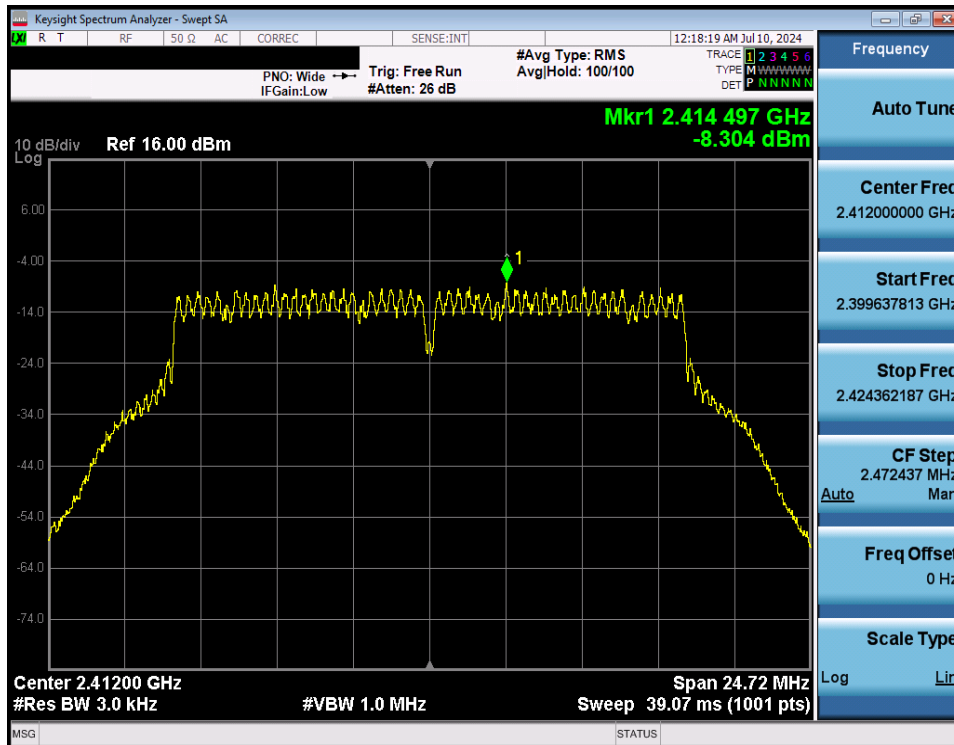


Plot 7-110. Power Spectral Density Plot Antenna WF7 (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 96 of 431

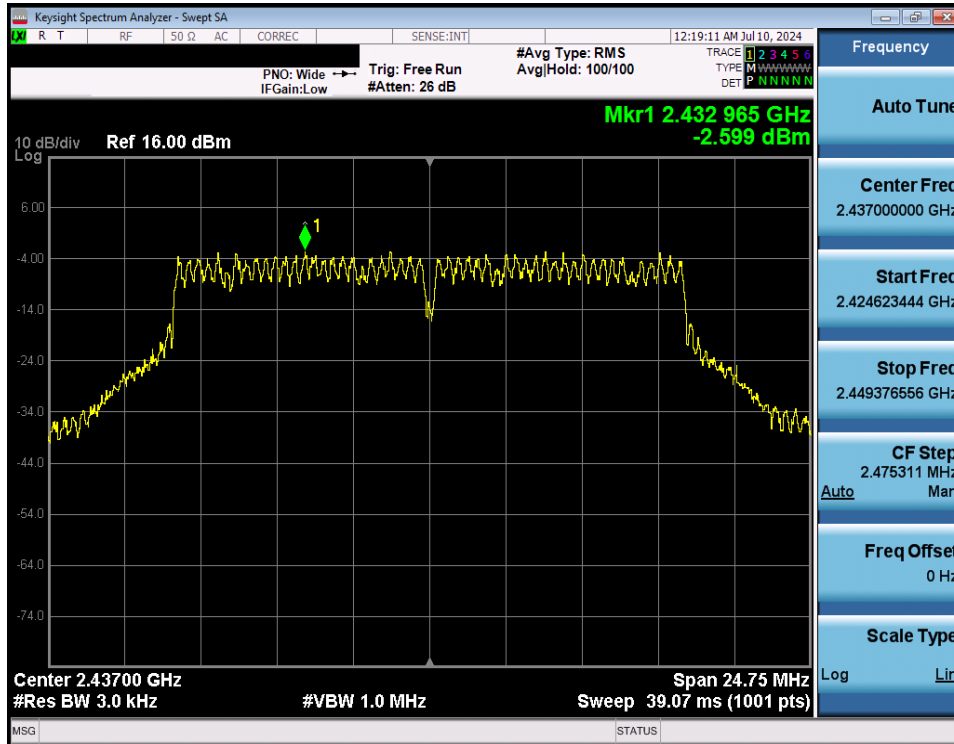


Plot 7-111. Power Spectral Density Plot Antenna WF7 (802.11b – Ch. 11) – 11Mbps

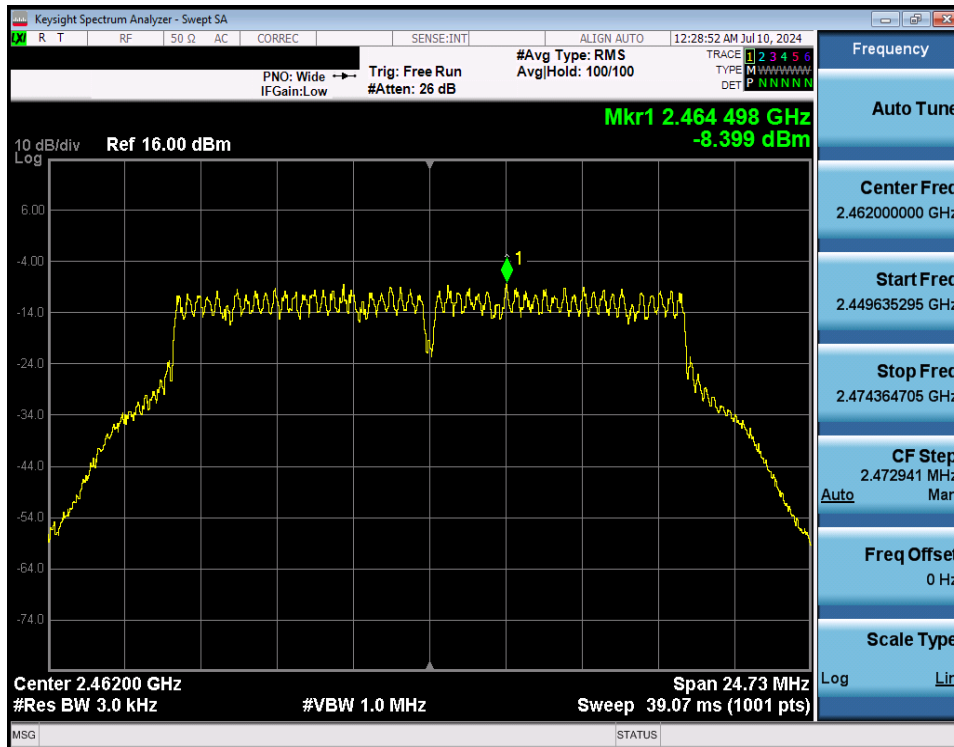


Plot 7-112. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 97 of 431

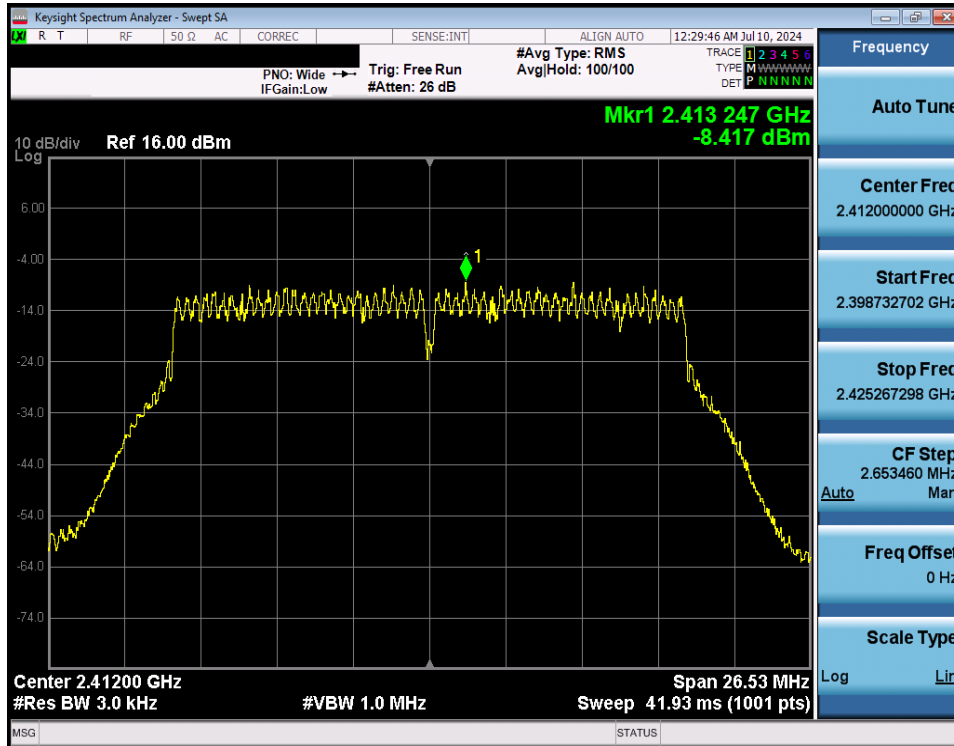


Plot 7-113. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 6) – 54Mbps

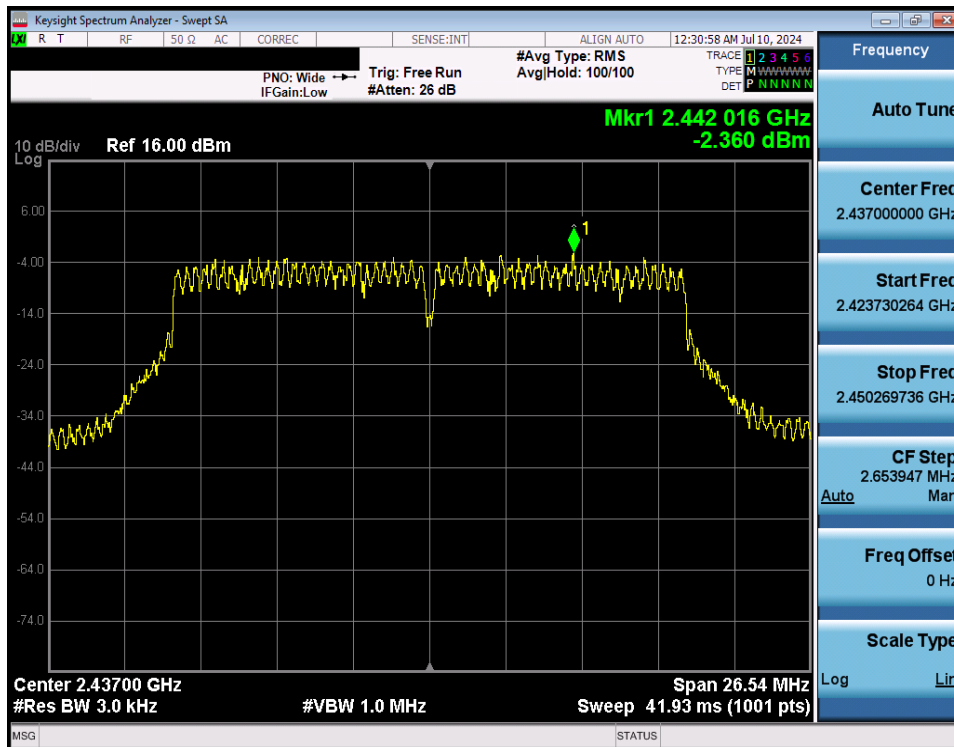


Plot 7-114. Power Spectral Density Plot Antenna WF7 (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 98 of 431



Plot 7-115. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS7

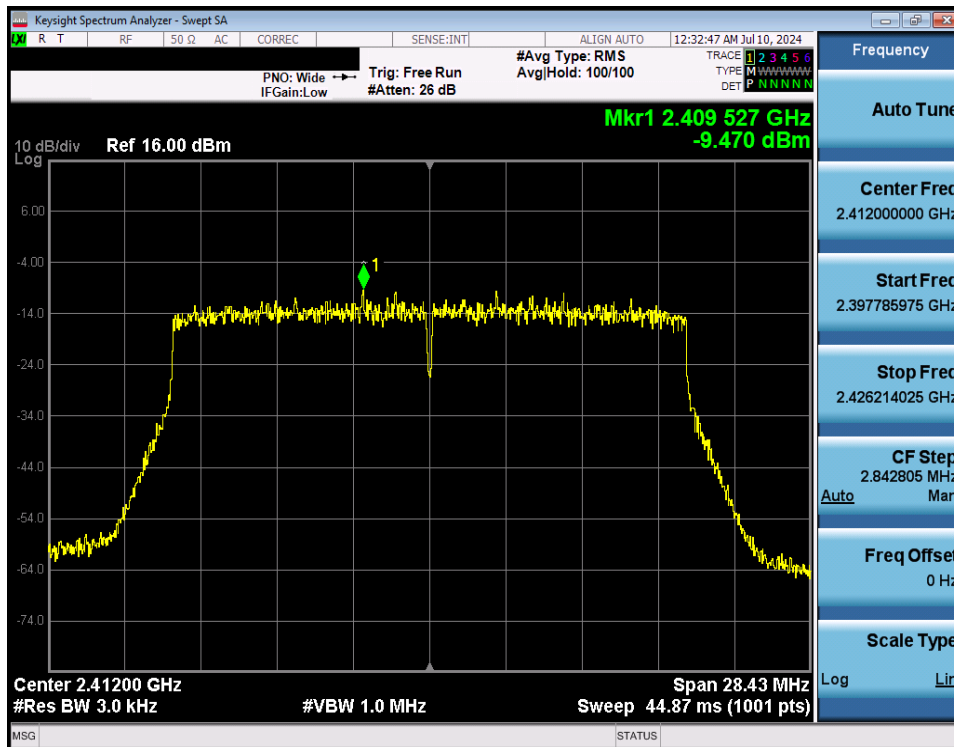


Plot 7-116. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 99 of 431

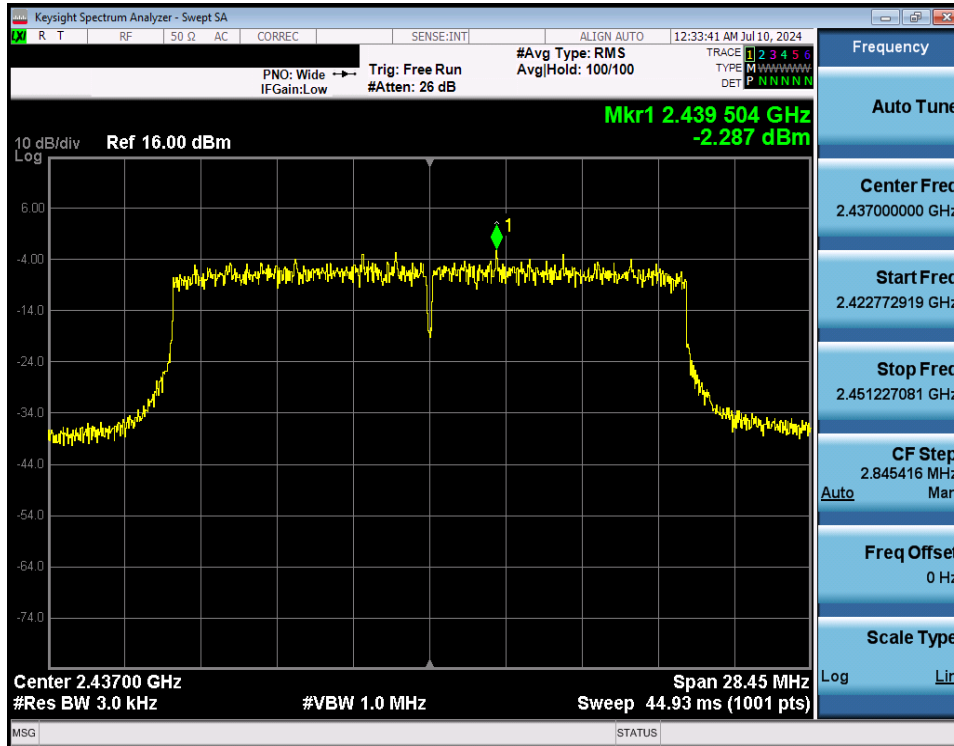


Plot 7-117. Power Spectral Density Plot Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS7

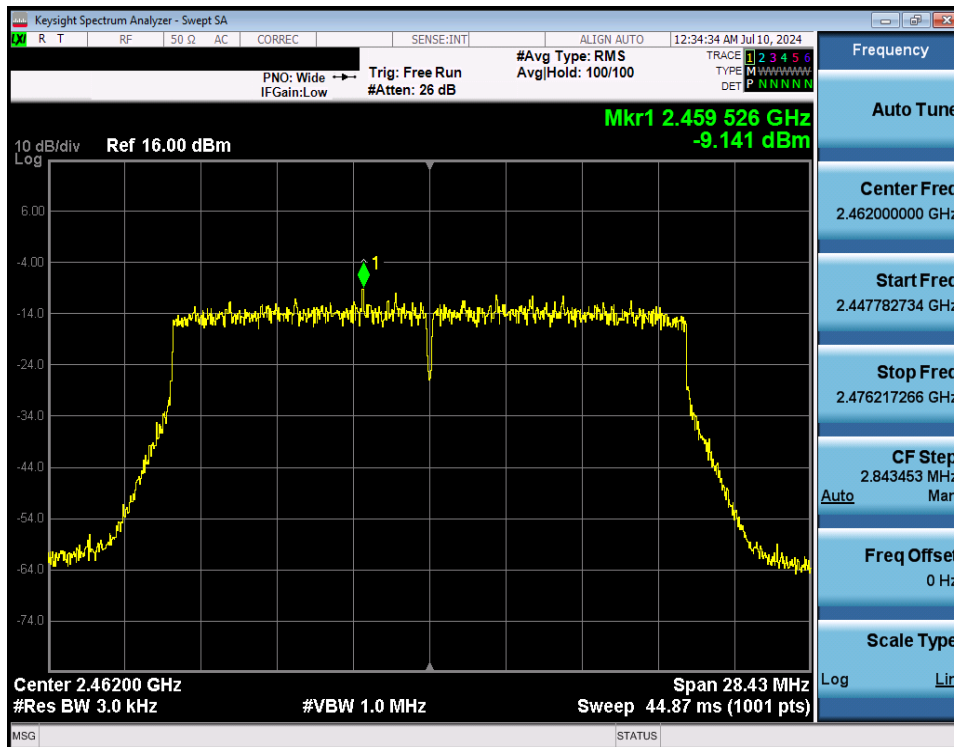


Plot 7-118. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 100 of 431



Plot 7-119. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9



Plot 7-120. Power Spectral Density Plot Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 101 of 431

7.4.3 CDD Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF8 Power Density [dBm/3kHz]	Antenna WF7 Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	12	-8.23	-8.24	-5.22	8.00	-13.22	Pass
2437	6	g	CDD	12	-0.99	0.15	2.63	8.00	-5.37	Pass
2462	11	g	CDD	12	-5.95	-6.33	-3.13	8.00	-11.13	Pass
2412	1	n	CDD	39/43.3 (MCS10)	-9.54	-9.80	-6.66	8.00	-14.66	Pass
2437	6	n	CDD	39/43.3 (MCS10)	-1.70	-1.45	1.44	8.00	-6.56	Pass
2462	11	n	CDD	39/43.3 (MCS10)	-7.70	-7.45	-4.56	8.00	-12.56	Pass
2412	1	ax (SU)	CDD	48/51.6 (MCS2)	-10.60	-10.55	-7.56	8.00	-15.56	Pass
2437	6	ax (SU)	CDD	48/51.6 (MCS2)	-4.14	-3.60	-0.85	8.00	-8.85	Pass
2462	11	ax (SU)	CDD	48/51.6 (MCS2)	-10.19	-9.38	-6.75	8.00	-14.75	Pass

Table 7-44.CDD Conducted Power Density Measurements (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF8 Power Density [dBm/3kHz]	Antenna WF7 Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	24	-9.50	-9.45	-6.47	8.00	-14.47	Pass
2437	6	g	CDD	24	-1.26	-0.75	2.01	8.00	-5.99	Pass
2462	11	g	CDD	24	-7.35	-7.62	-4.47	8.00	-12.47	Pass
2412	1	n	CDD	78/86.7 (MCS12)	-9.64	-9.78	-6.70	8.00	-14.70	Pass
2437	6	n	CDD	78/86.7 (MCS12)	-1.11	-1.92	1.52	8.00	-6.48	Pass
2462	11	n	CDD	78/86.7 (MCS12)	-8.22	-7.94	-5.07	8.00	-13.07	Pass
2412	1	ax (SU)	CDD	98/103.2 (MCS4)	-10.55	-10.27	-7.40	8.00	-15.40	Pass
2437	6	ax (SU)	CDD	98/103.2 (MCS4)	-3.24	-3.30	-0.26	8.00	-8.26	Pass
2462	11	ax (SU)	CDD	98/103.2 (MCS4)	-9.68	-9.87	-6.77	8.00	-14.77	Pass

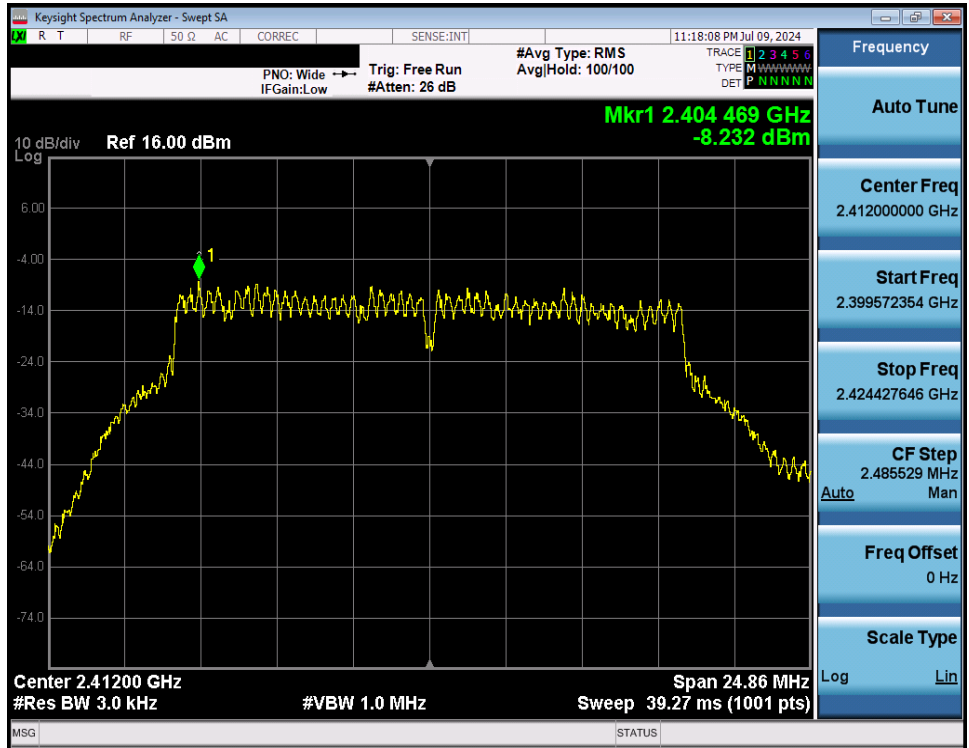
Table 7-45.CDD Conducted Power Density Measurements (Mid Data Rate)

Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF8 Power Density [dBm/3kHz]	Antenna WF7 Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	g	CDD	54	-10.00	-9.57	-6.77	8.00	-14.77	Pass
2437	6	g	CDD	54	-3.12	-2.95	-0.02	8.00	-8.02	Pass
2462	11	g	CDD	54	-9.38	-9.02	-6.18	8.00	-14.18	Pass
2412	1	n	CDD	130/144.4 (MCS15)	-9.56	-9.00	-6.26	8.00	-14.26	Pass
2437	6	n	CDD	130/144.4 (MCS15)	-2.81	-2.33	0.45	8.00	-7.55	Pass
2462	11	n	CDD	130/144.4 (MCS15)	-9.14	-8.64	-5.87	8.00	-13.87	Pass
2412	1	ax (SU)	CDD	216/229.4 (MCS9)	-10.93	-11.07	-7.99	8.00	-15.99	Pass
2437	6	ax (SU)	CDD	216/229.4 (MCS9)	-2.91	-2.90	0.10	8.00	-7.90	Pass
2462	11	ax (SU)	CDD	216/229.4 (MCS9)	-10.53	-9.43	-6.93	8.00	-14.93	Pass

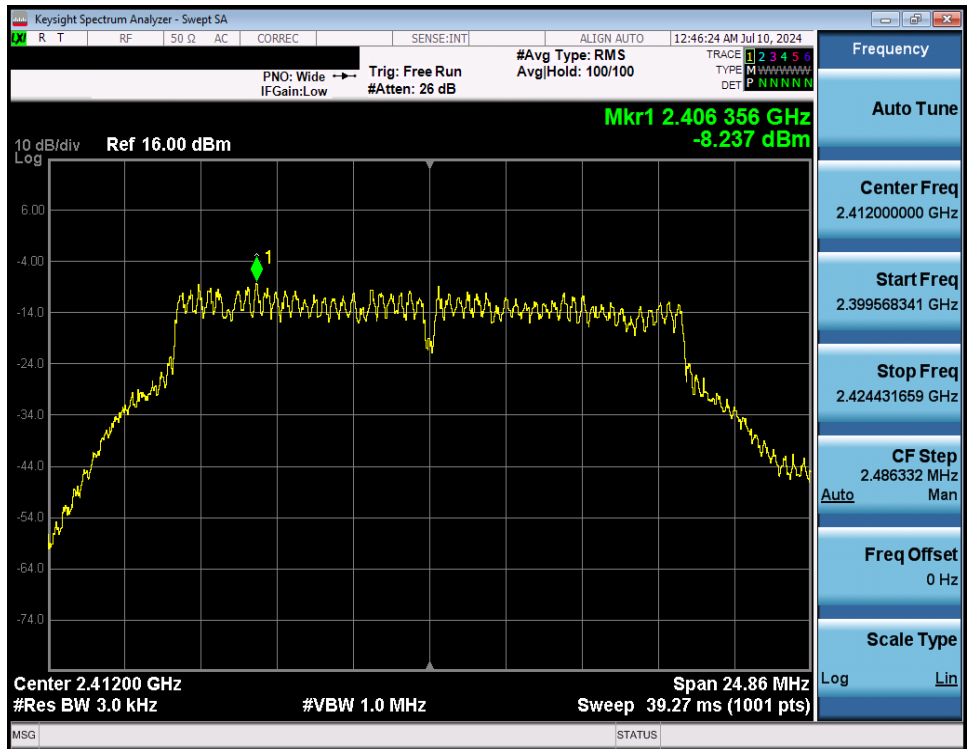
Table 7-46.CDD Conducted Power Density Measurements (High Data Rate)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 102 of 431

Low Rate

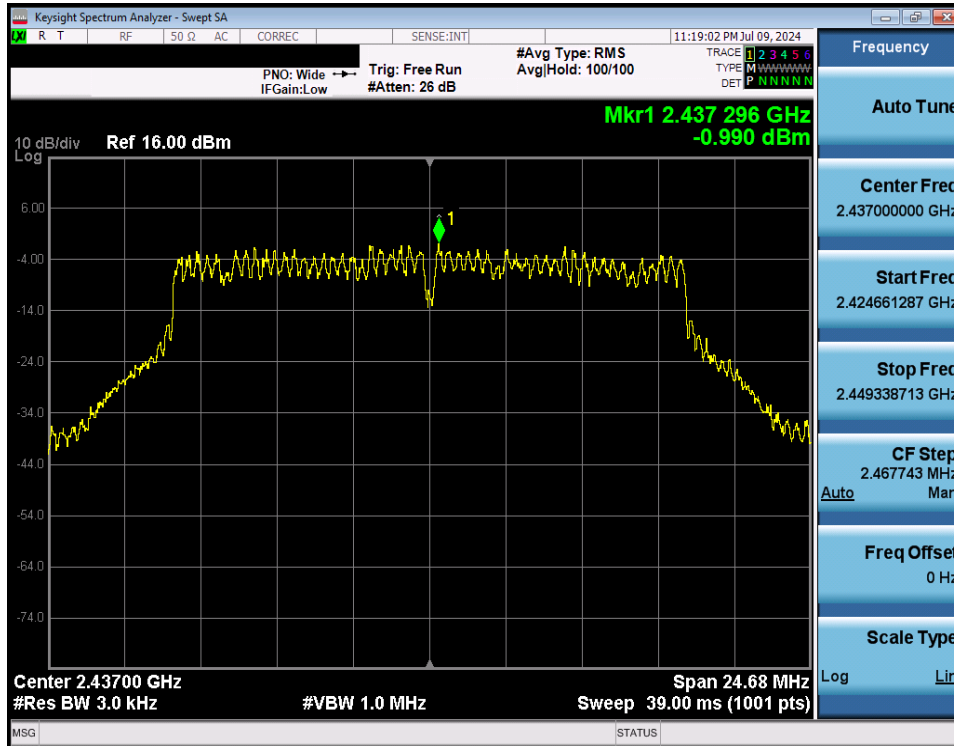


Plot 7-121. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 1) – 12Mbps

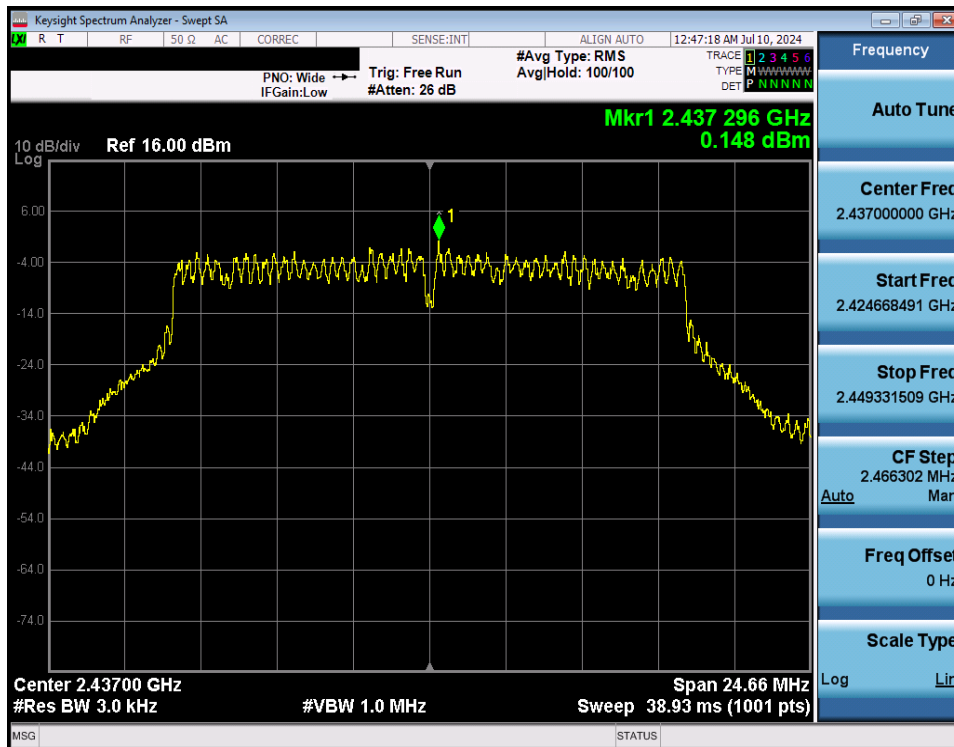


Plot 7-122. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 1) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 103 of 431

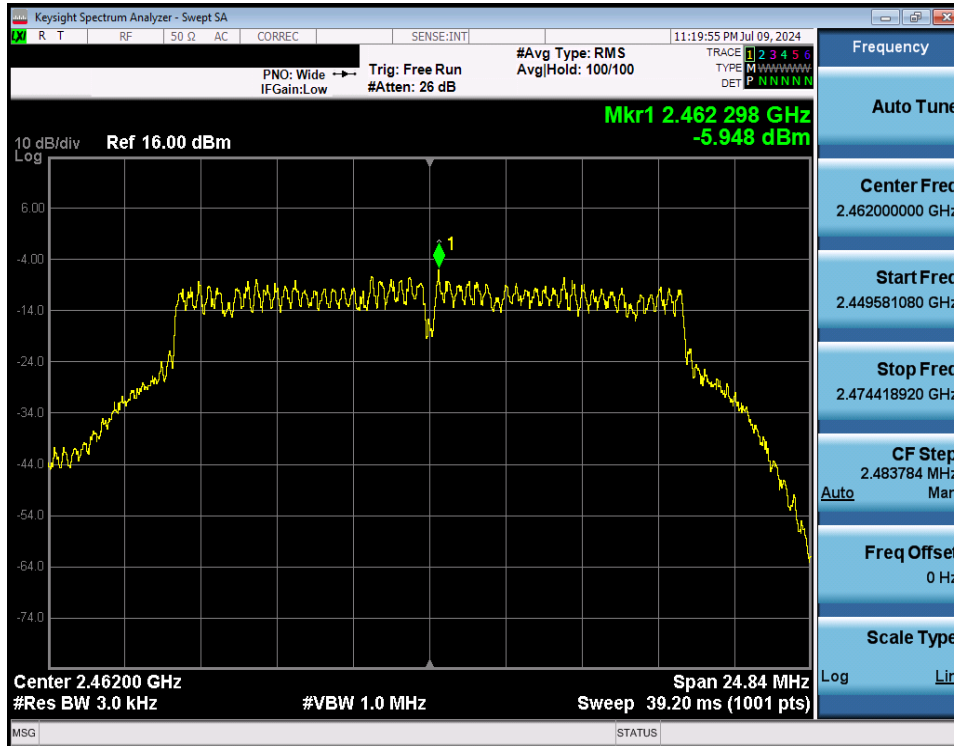


Plot 7-123. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 6) – 12Mbps

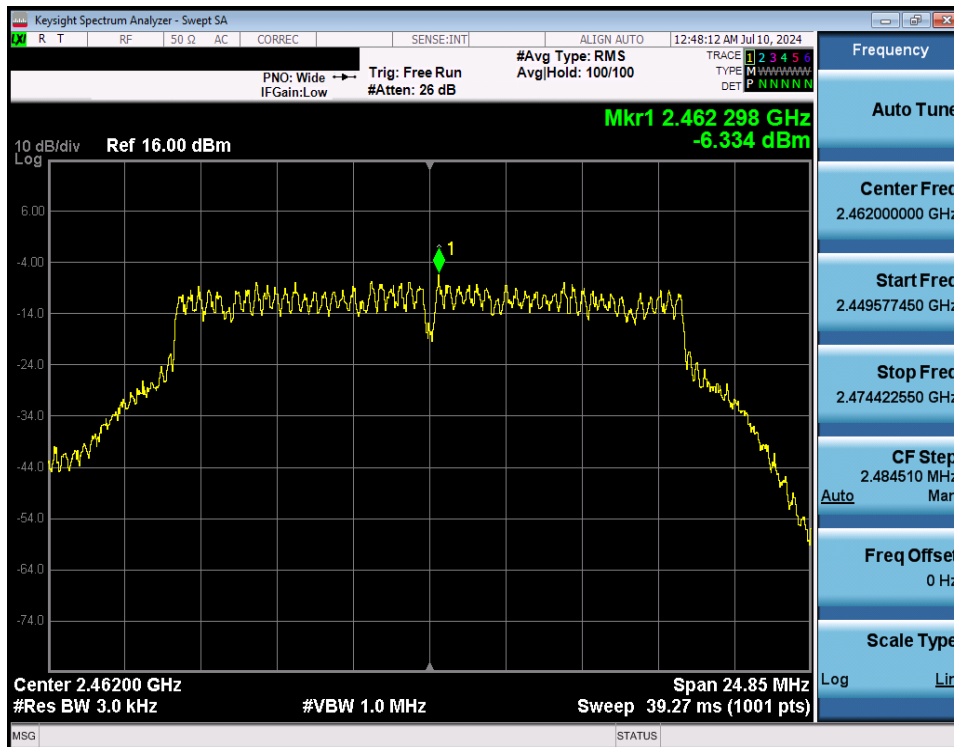


Plot 7-124. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 104 of 431

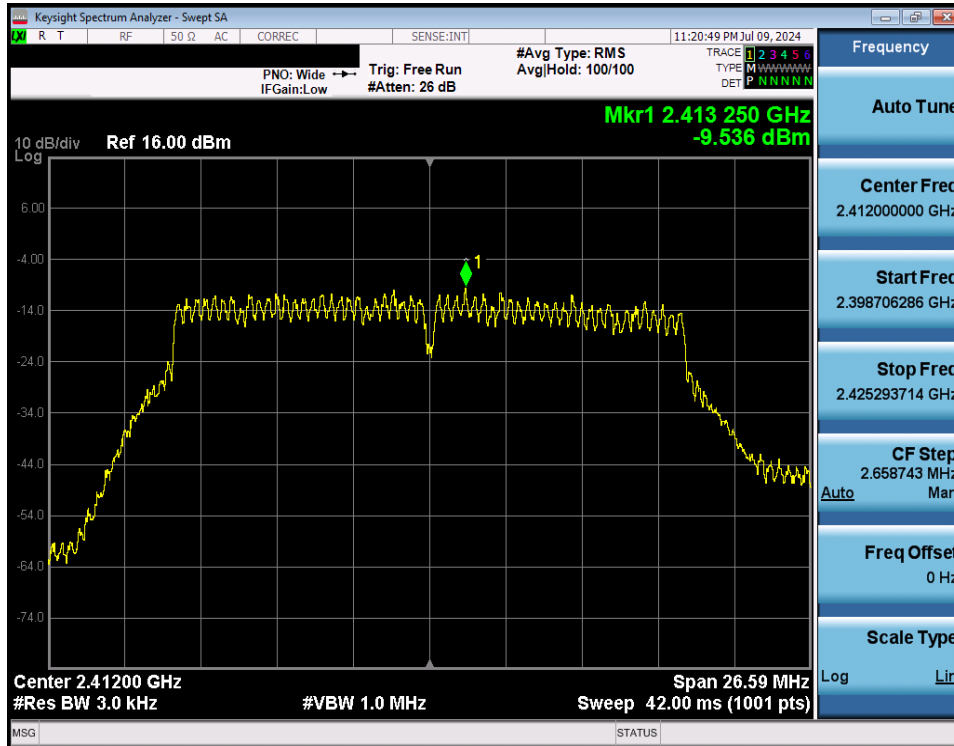


Plot 7-125. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 11) – 12Mbps

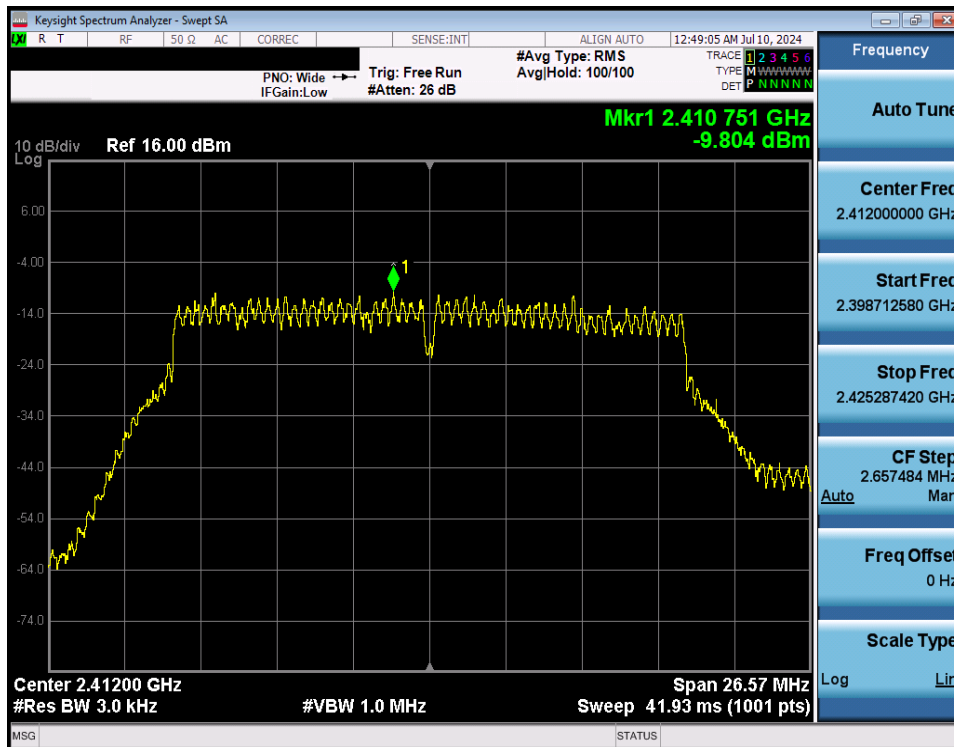


Plot 7-126. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 11) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 105 of 431

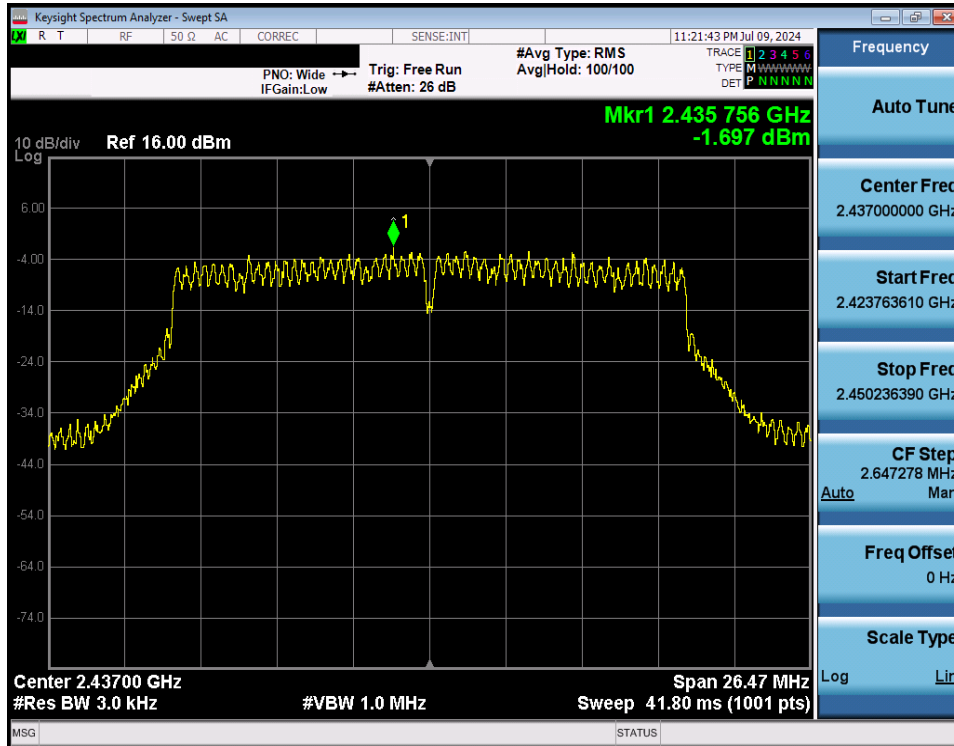


Plot 7-127. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS10

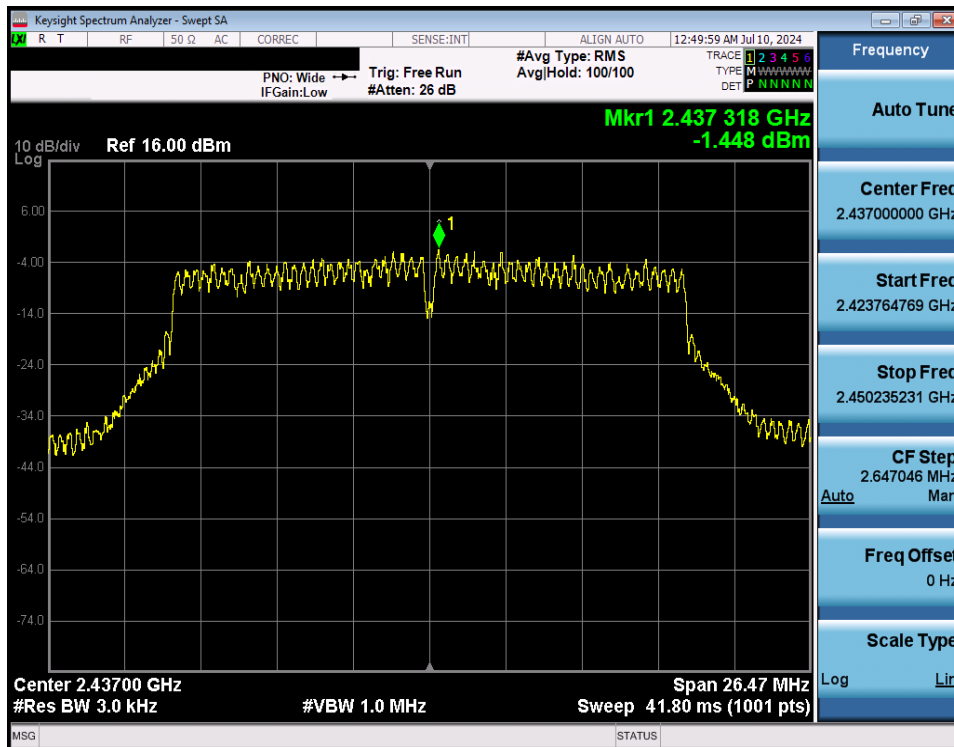


Plot 7-128. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS10

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 106 of 431

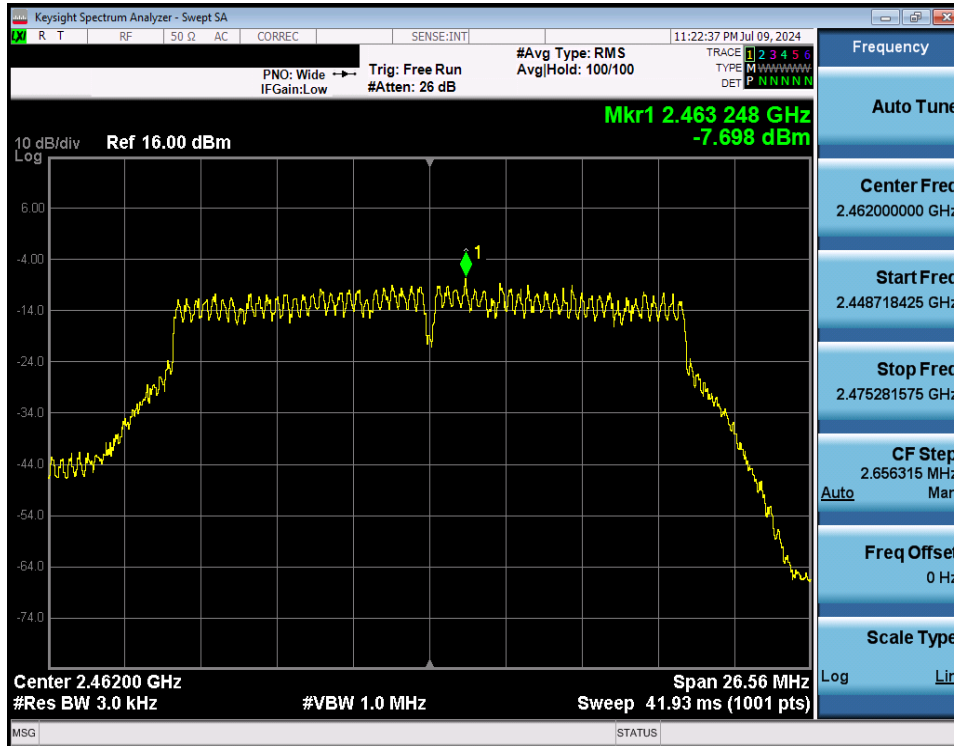


Plot 7-129. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS10

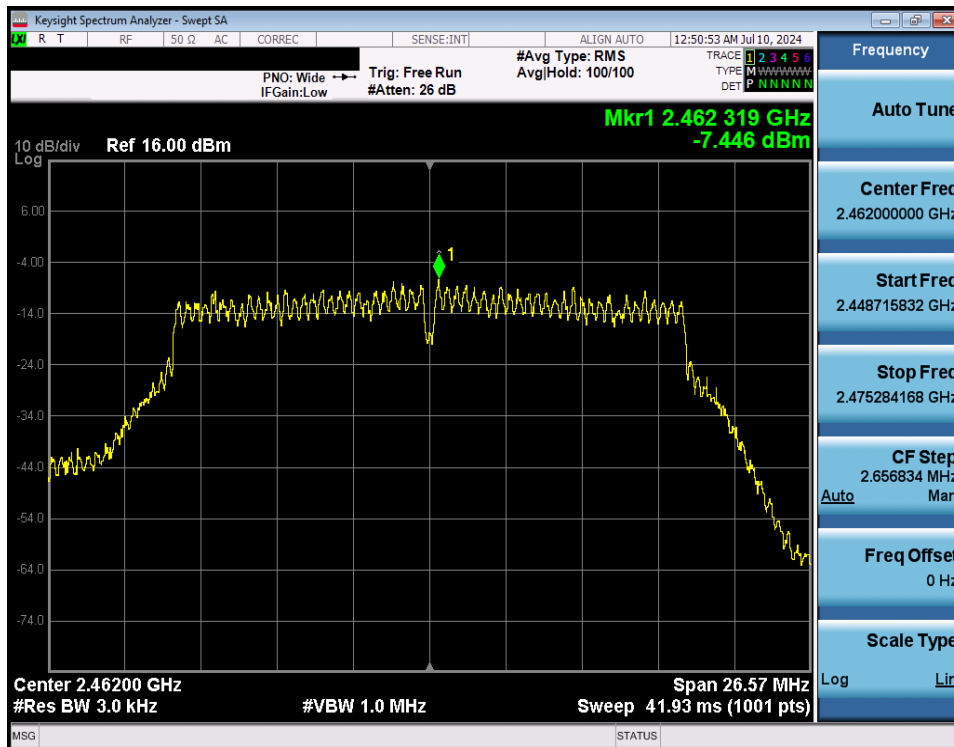


Plot 7-130. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS10

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 107 of 431

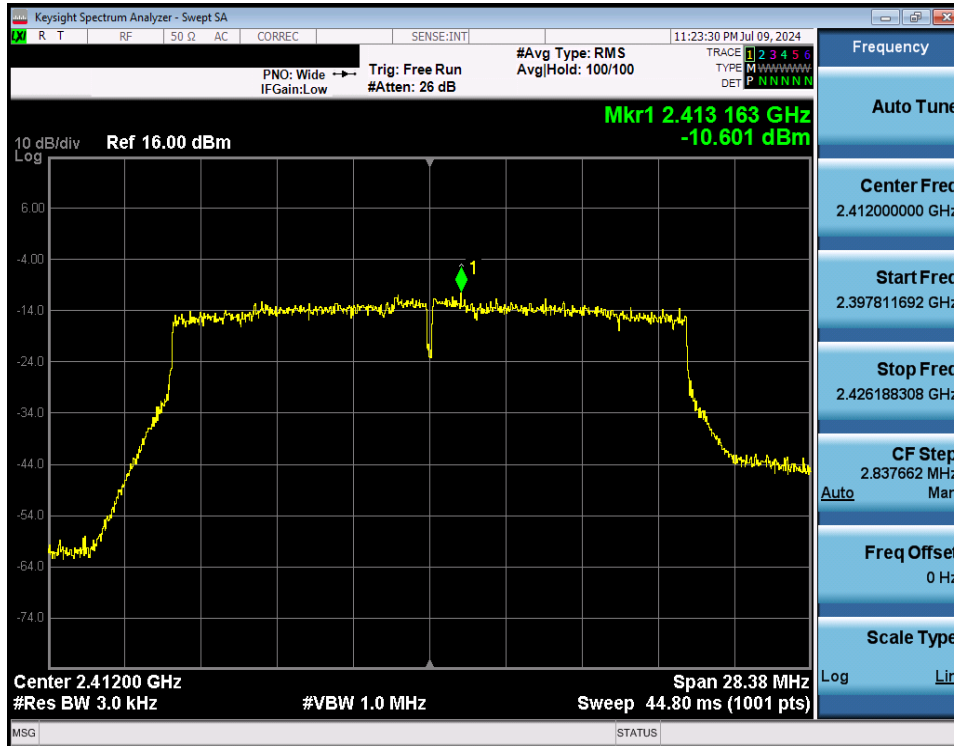


Plot 7-131. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS10

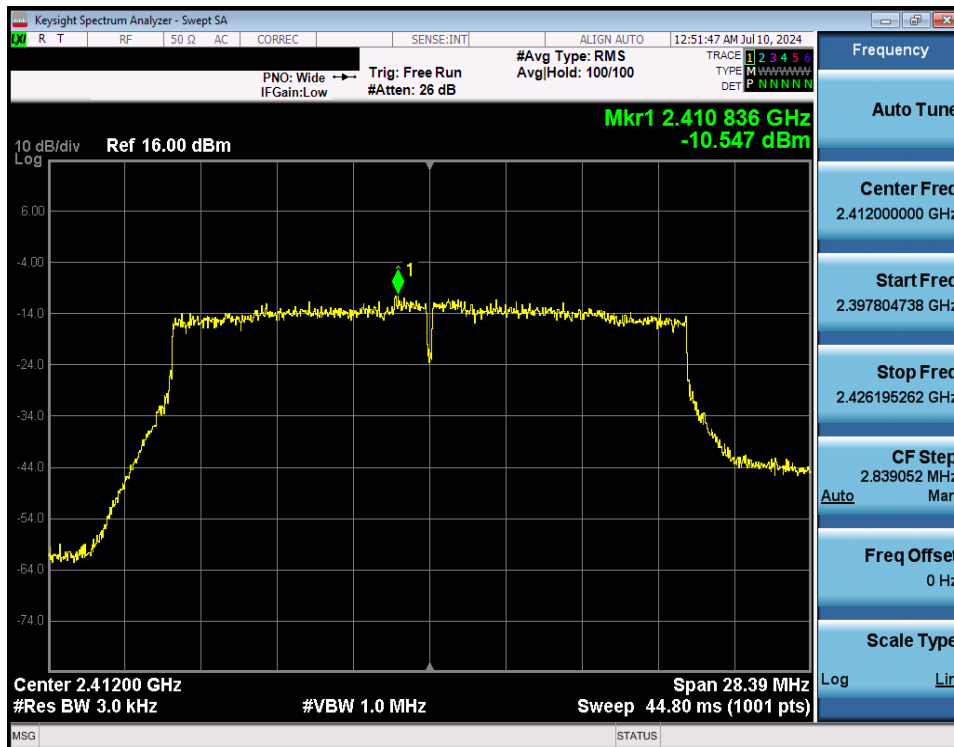


Plot 7-132. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS10

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 108 of 431

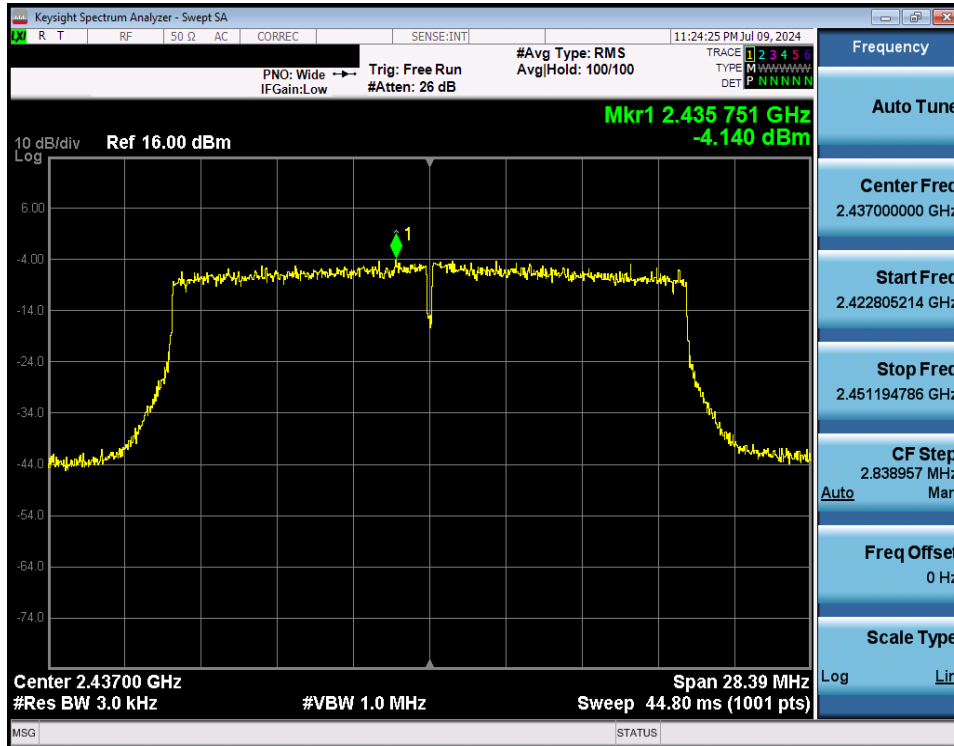


Plot 7-133. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

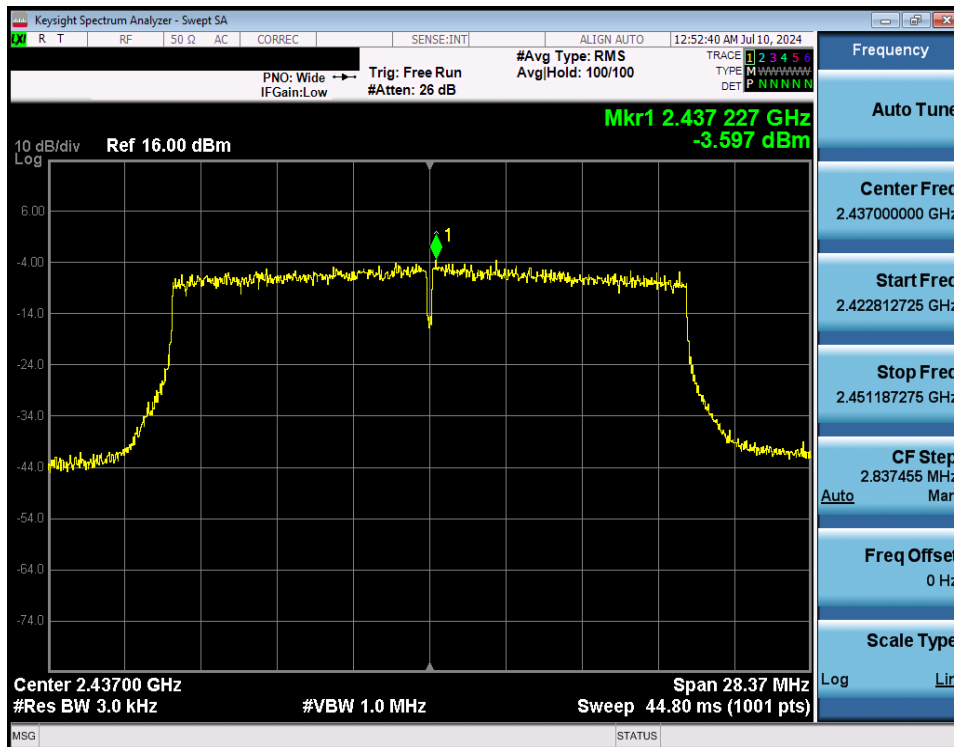


Plot 7-134. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 109 of 431

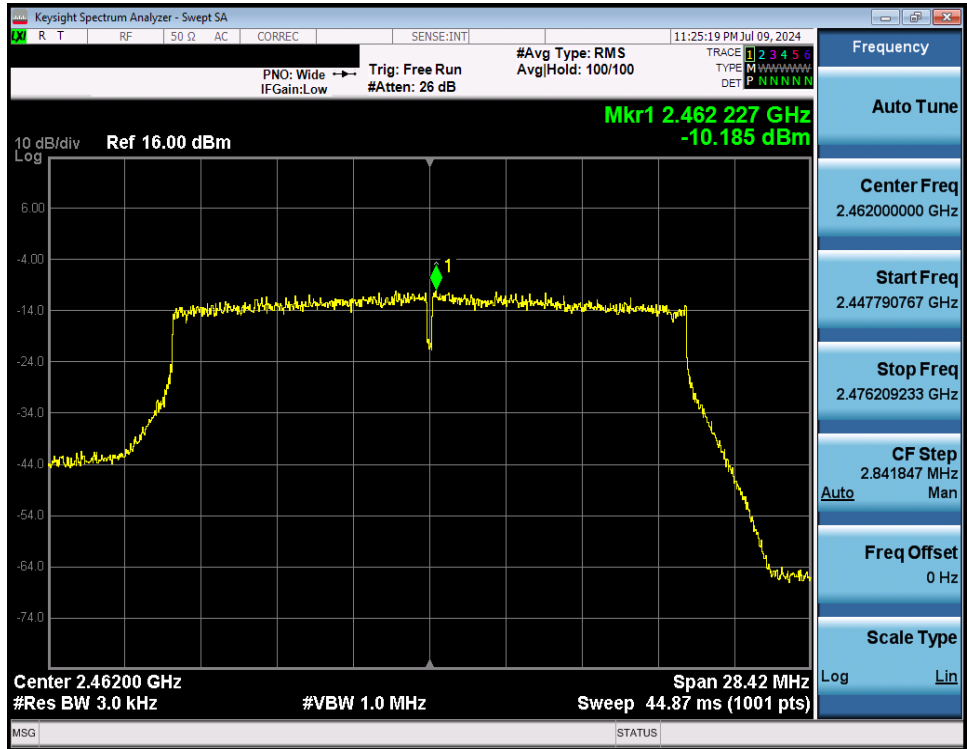


Plot 7-135. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

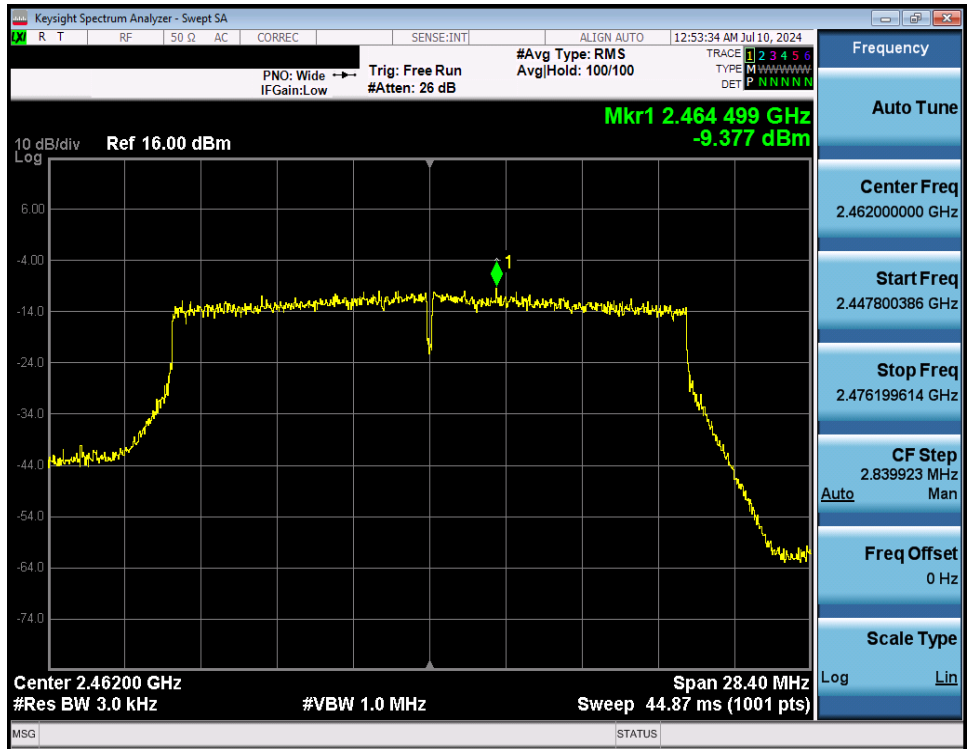


Plot 7-136. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 110 of 431



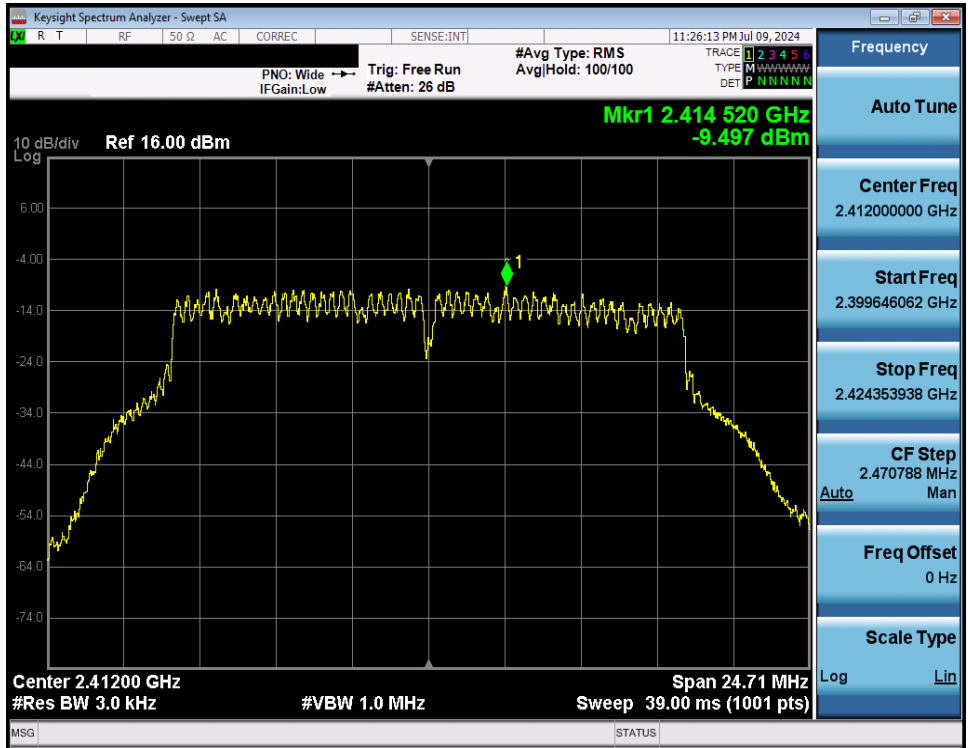
Plot 7-137. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2



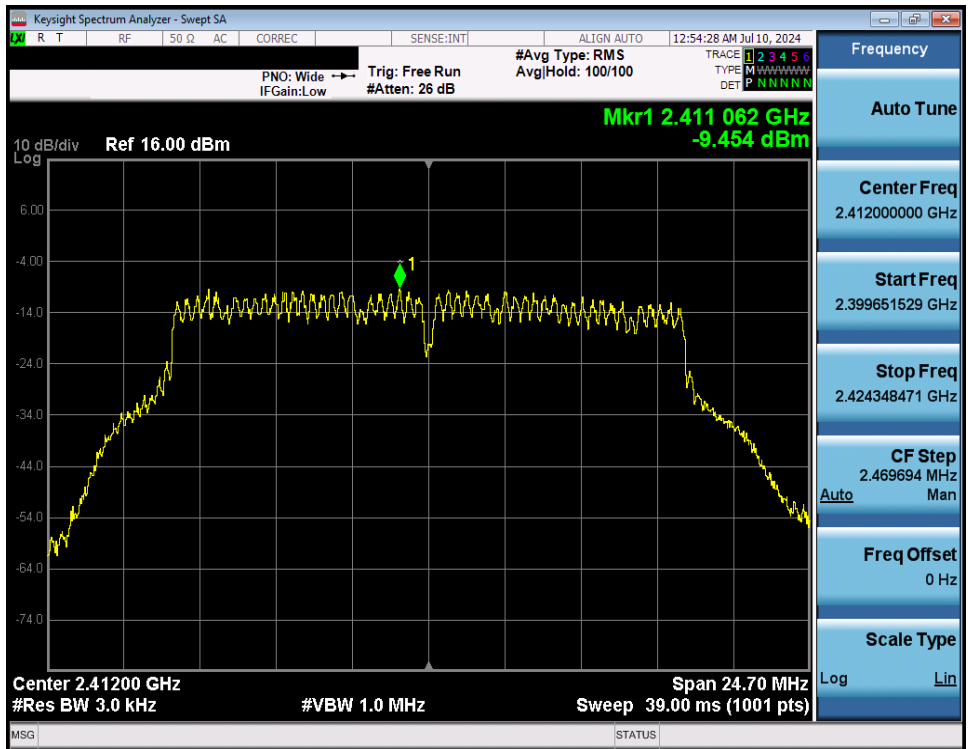
Plot 7-138. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 111 of 431

Mid Rate

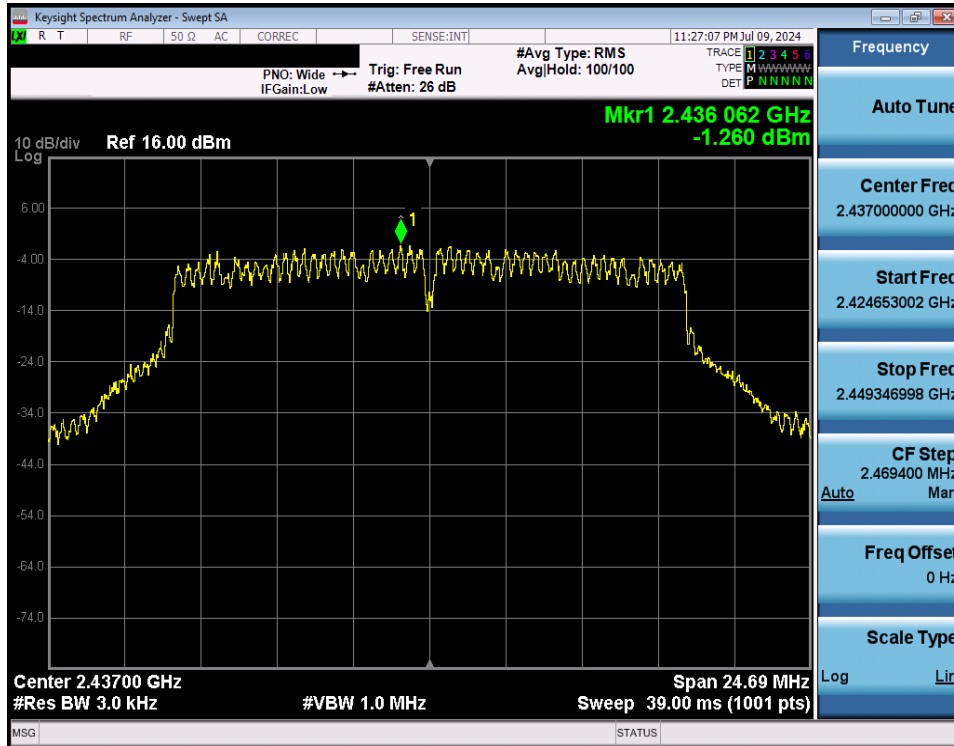


Plot 7-139. Power Spectral Density Plot CDD Antenna WF8 (802.11g– Ch. 1) – 24Mbps

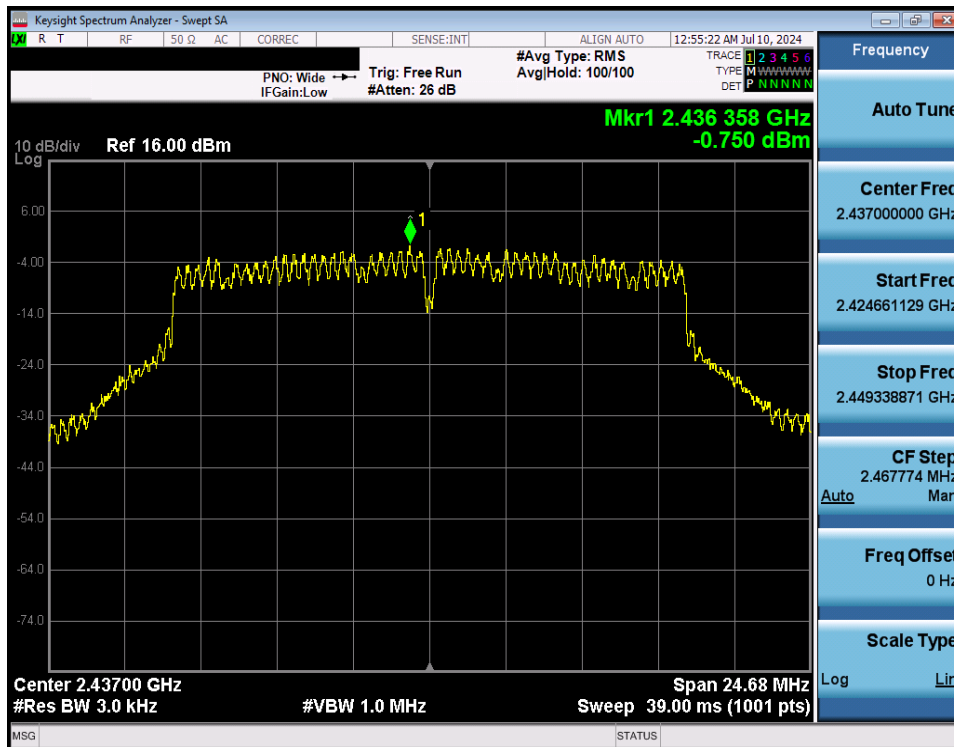


Plot 7-140. Power Spectral Density Plot CDD Antenna WF7 (802.11g– Ch. 1) – 24Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 112 of 431

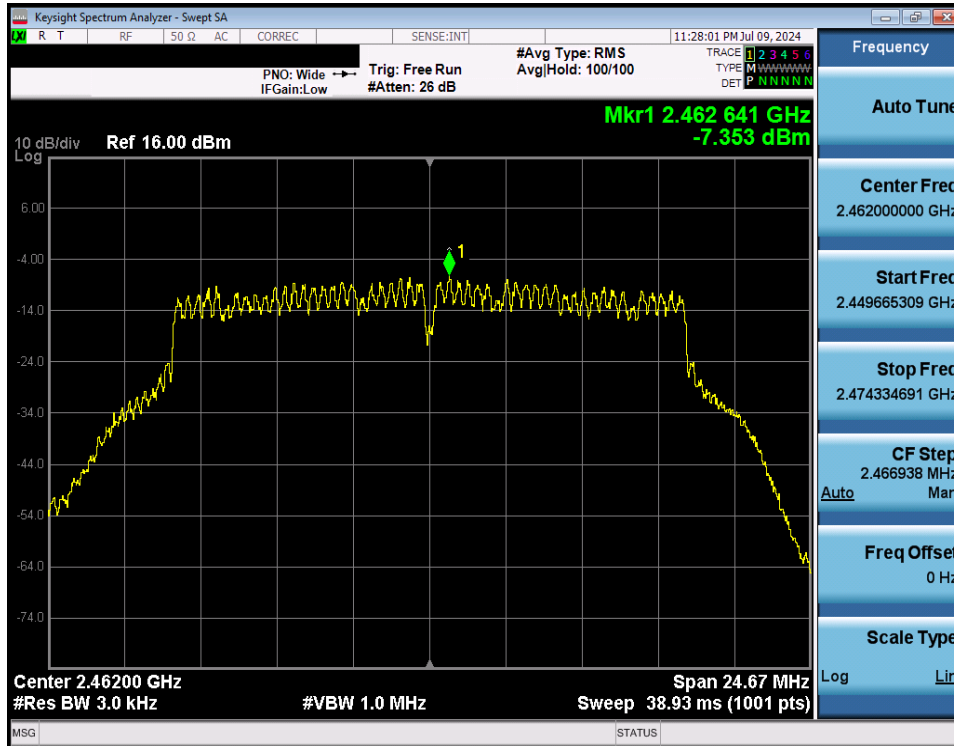


Plot 7-141. Power Spectral Density Plot CDD Antenna WF8 (802.11g– Ch. 6) – 24Mbps

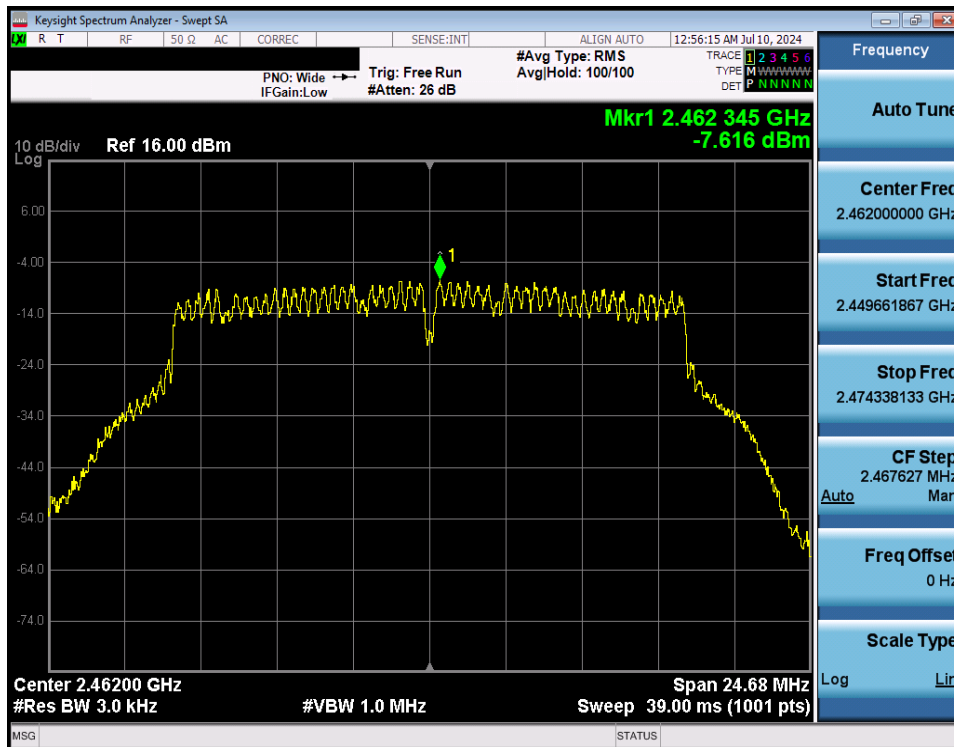


Plot 7-142. Power Spectral Density Plot CDD Antenna WF7 (802.11g– Ch. 6) – 24Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 113 of 431

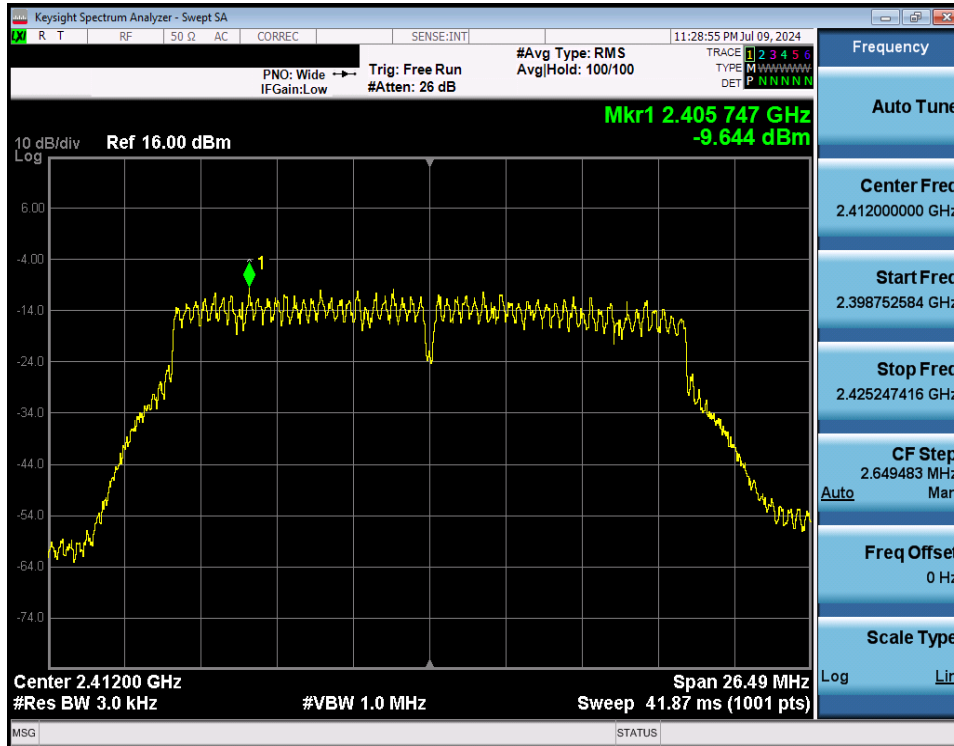


Plot 7-143. Power Spectral Density Plot CDD Antenna WF8 (802.11g– Ch. 11) – 24Mbps

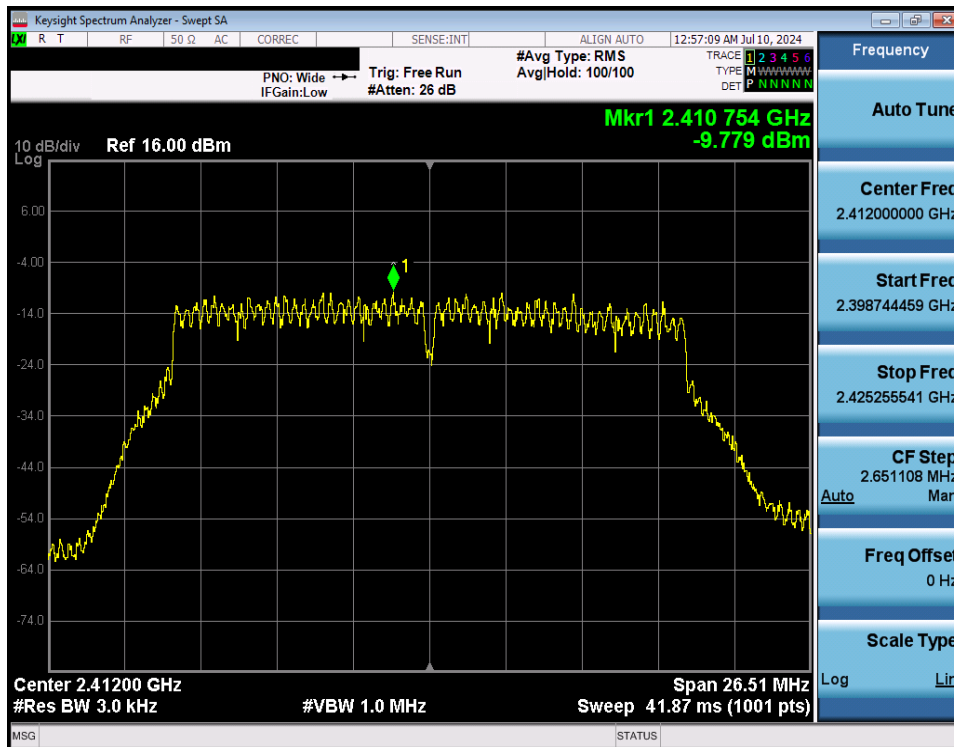


Plot 7-144. Power Spectral Density Plot CDD Antenna WF7 (802.11g– Ch. 11) – 24Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 114 of 431

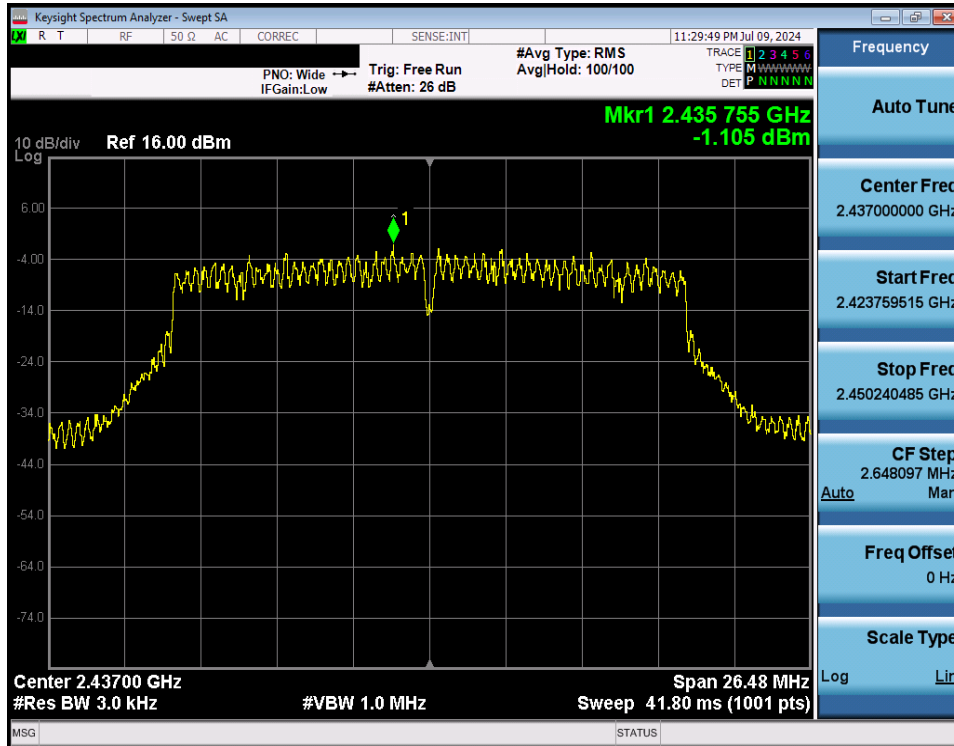


Plot 7-145. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS12

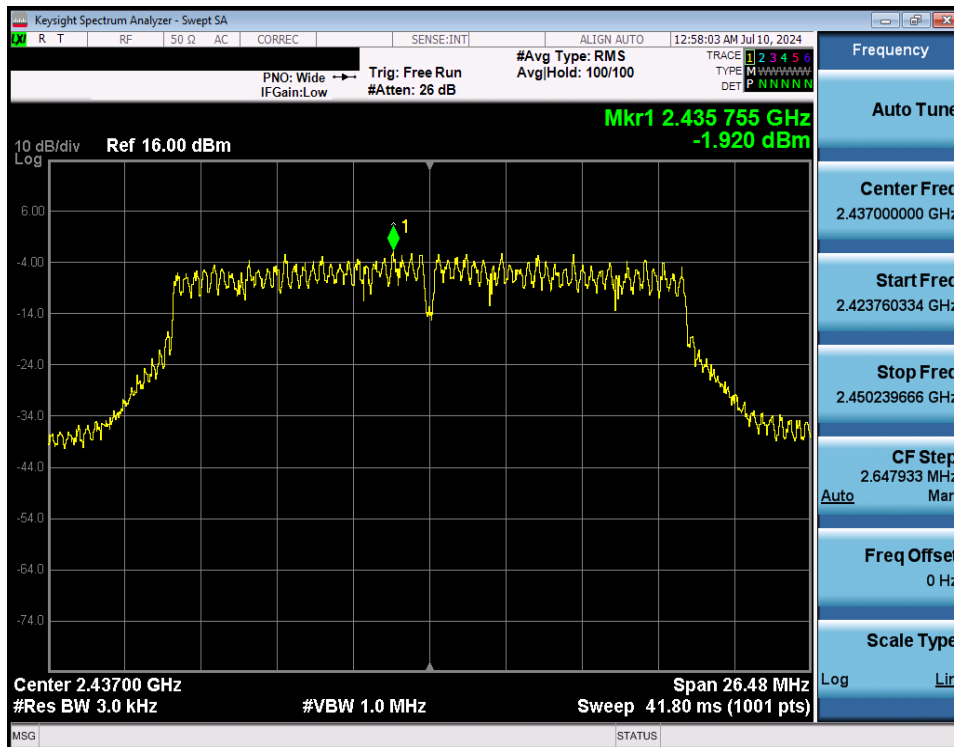


Plot 7-146. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS12

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 115 of 431

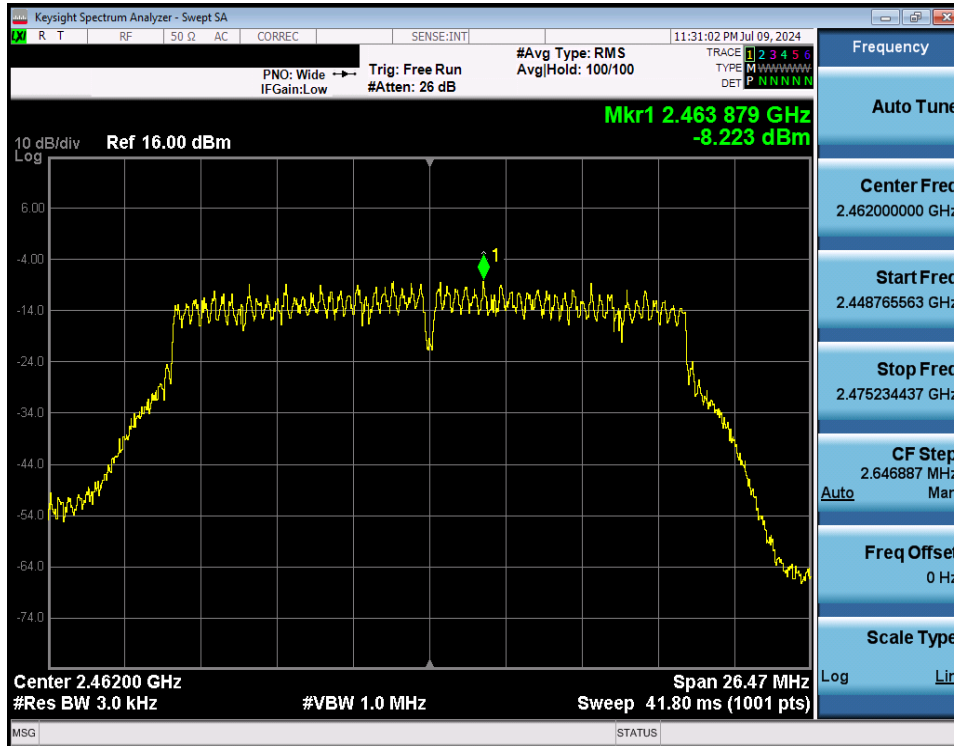


Plot 7-147. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS12

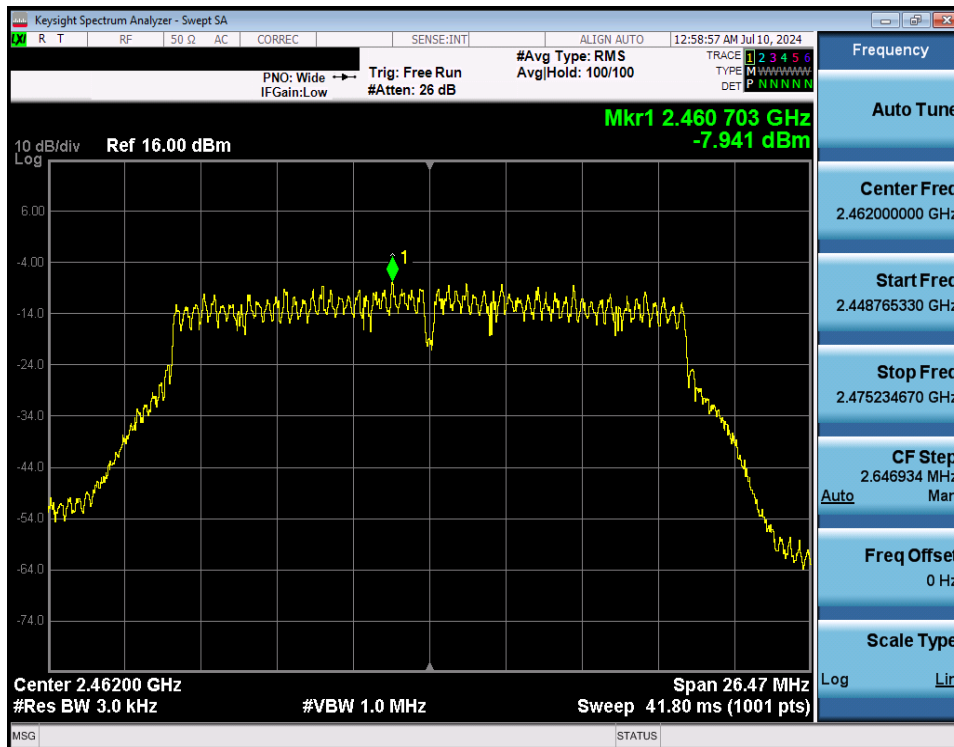


Plot 7-148. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS12

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 116 of 431

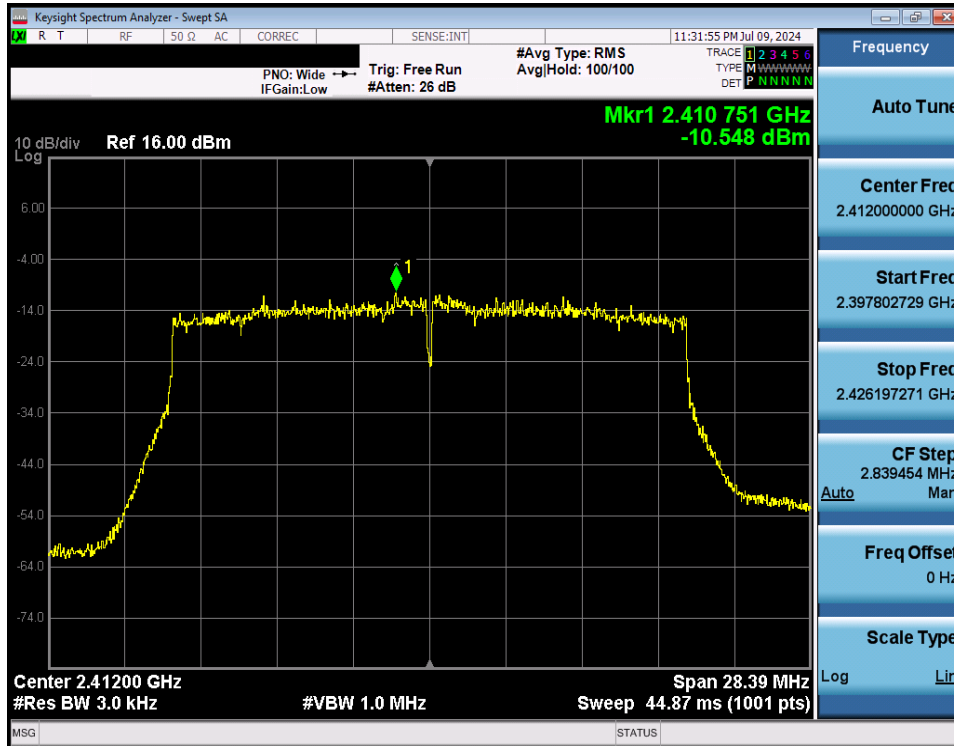


Plot 7-149. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS12



Plot 7-150. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS12

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 117 of 431

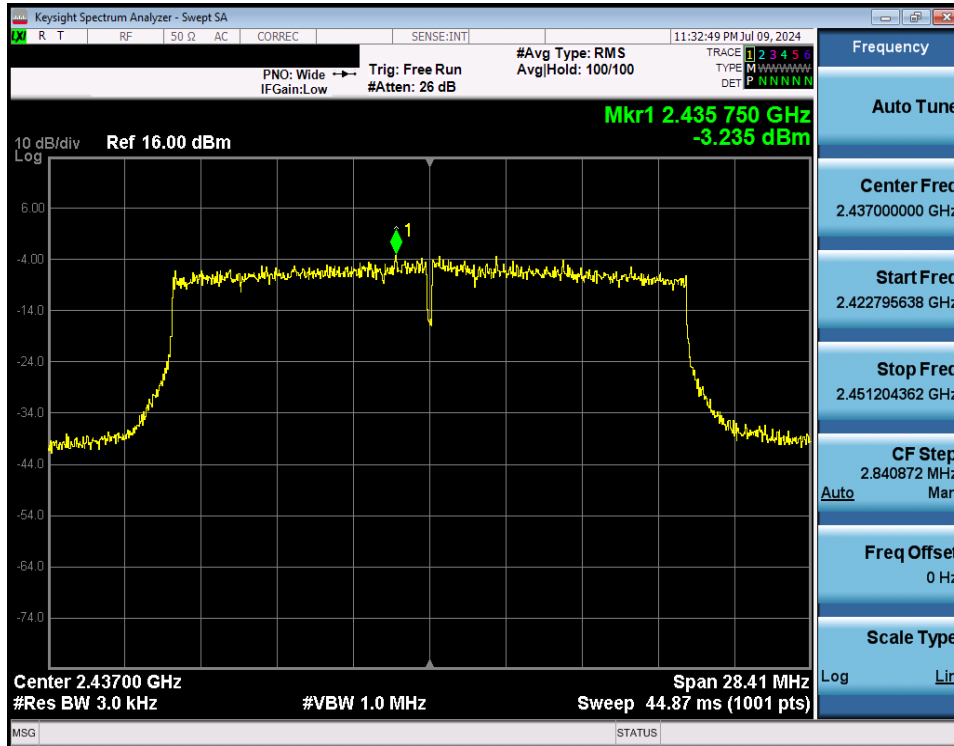


Plot 7-151. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

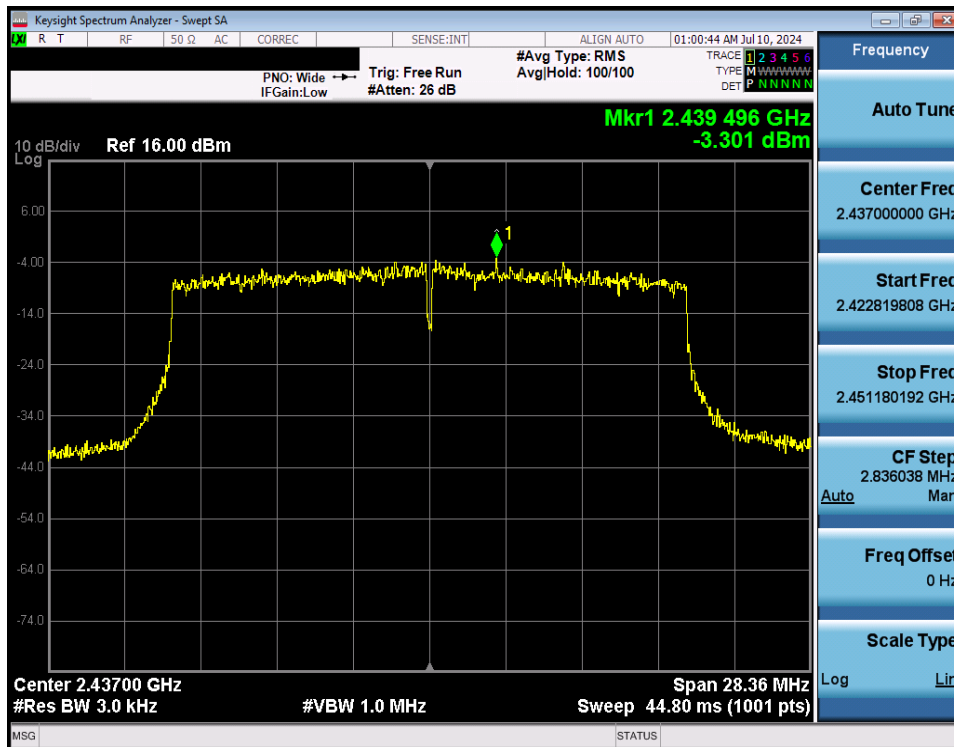


Plot 7-152. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 118 of 431

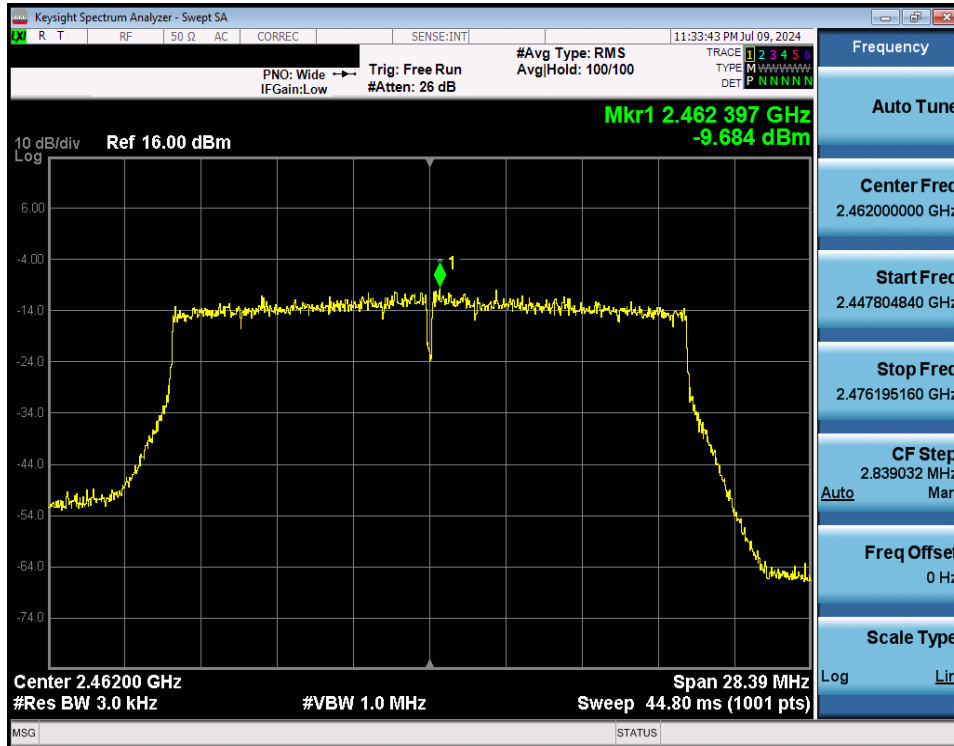


Plot 7-153. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

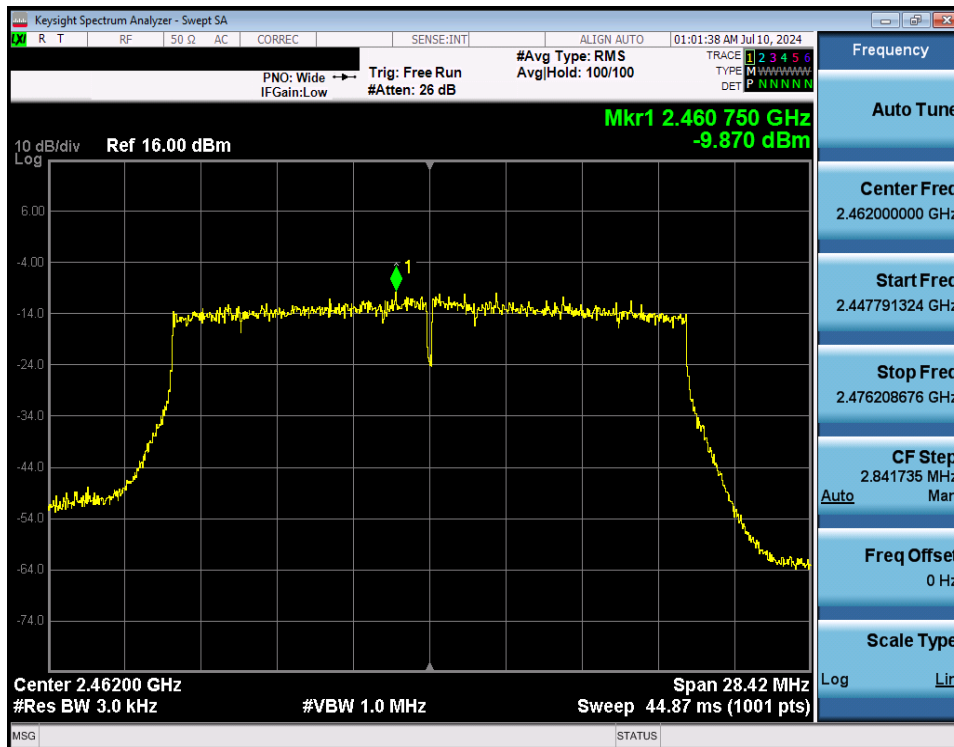


Plot 7-154. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 119 of 431

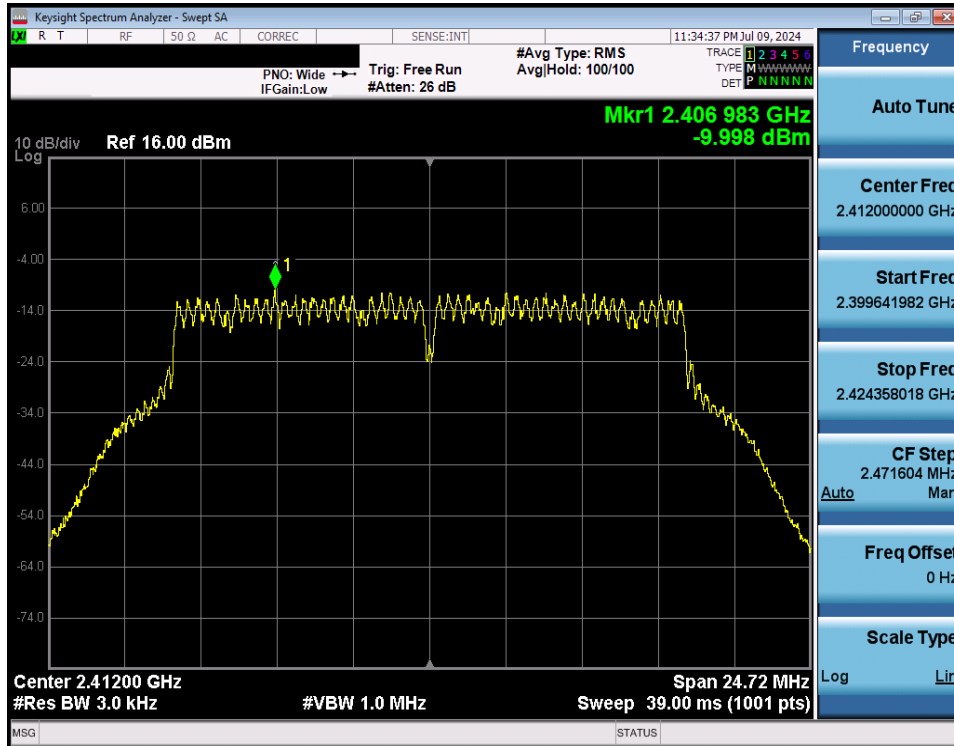


Plot 7-155. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

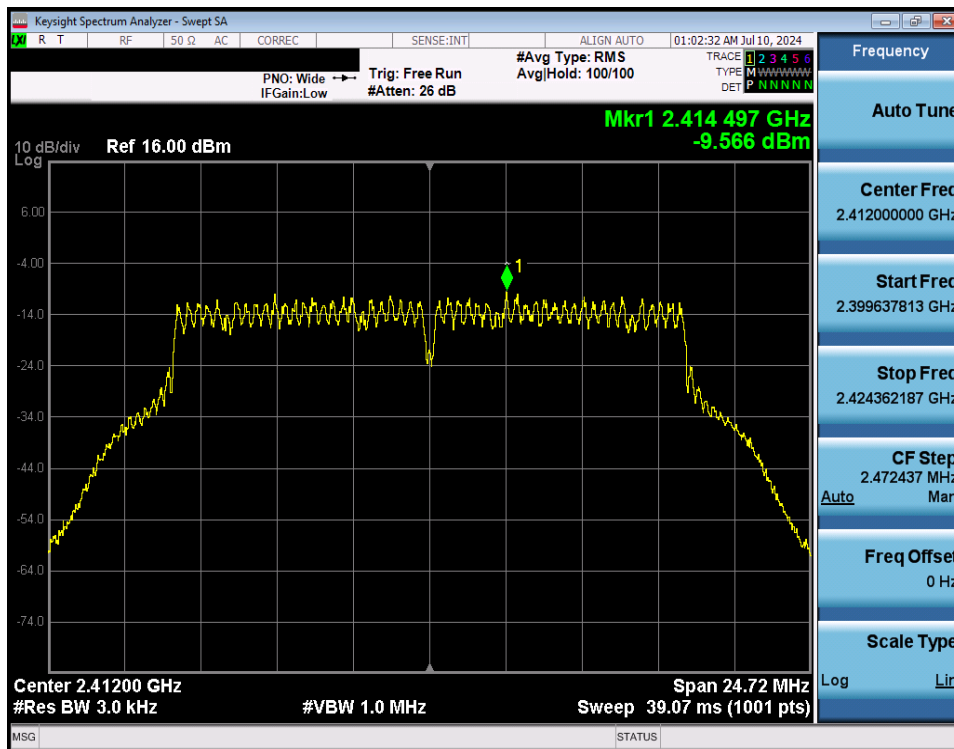


Plot 7-156. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 120 of 431

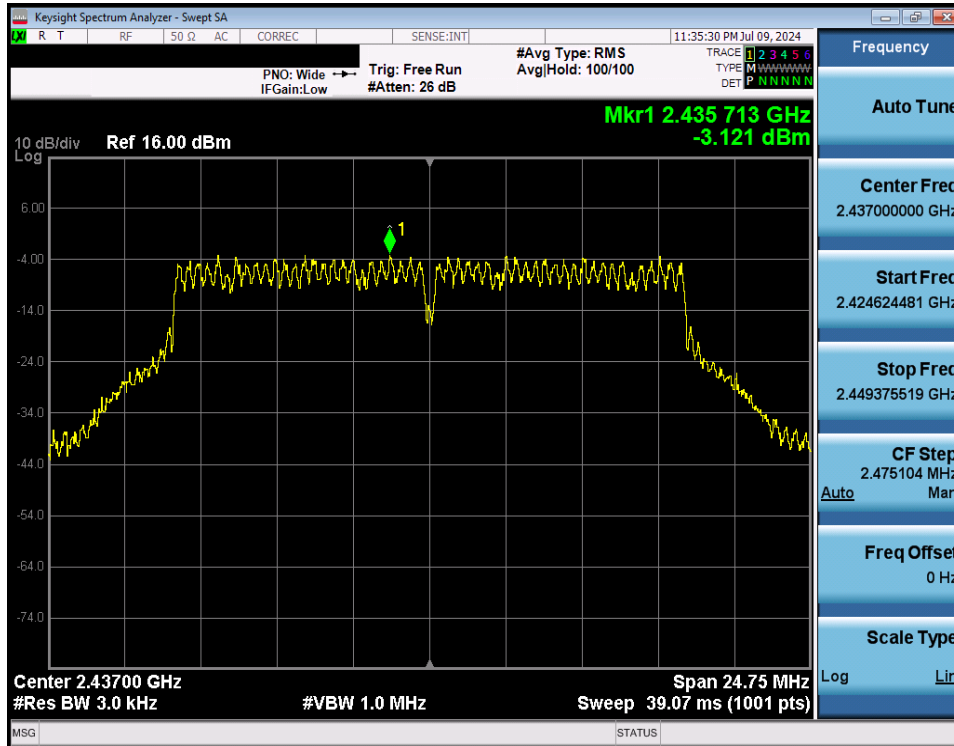


Plot 7-157. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 1) – 54Mbps

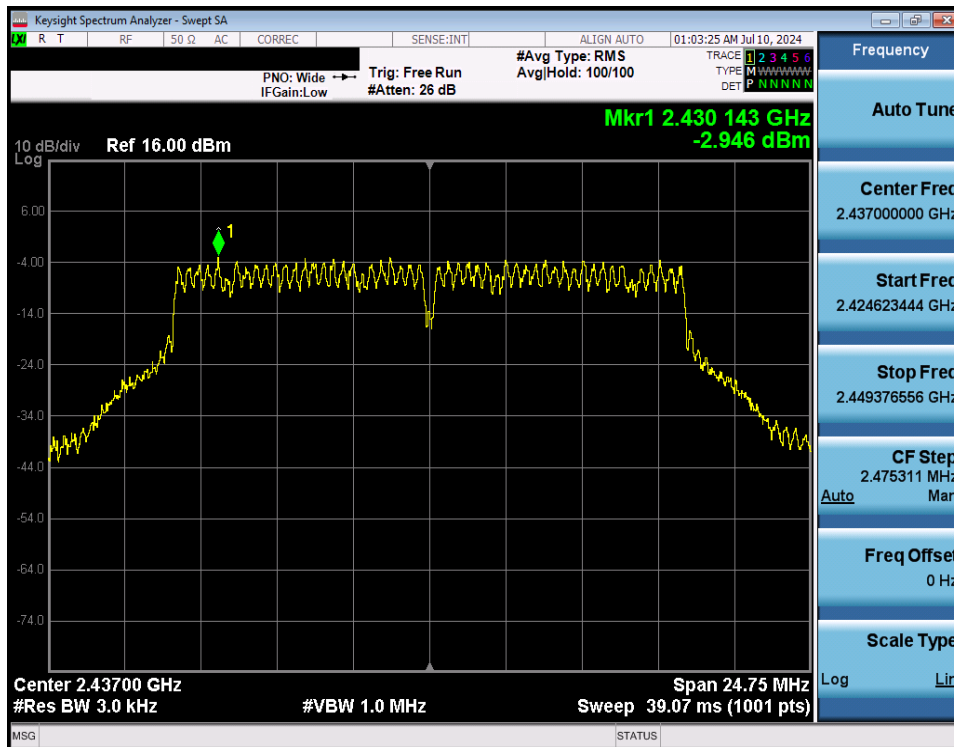


Plot 7-158. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 121 of 431

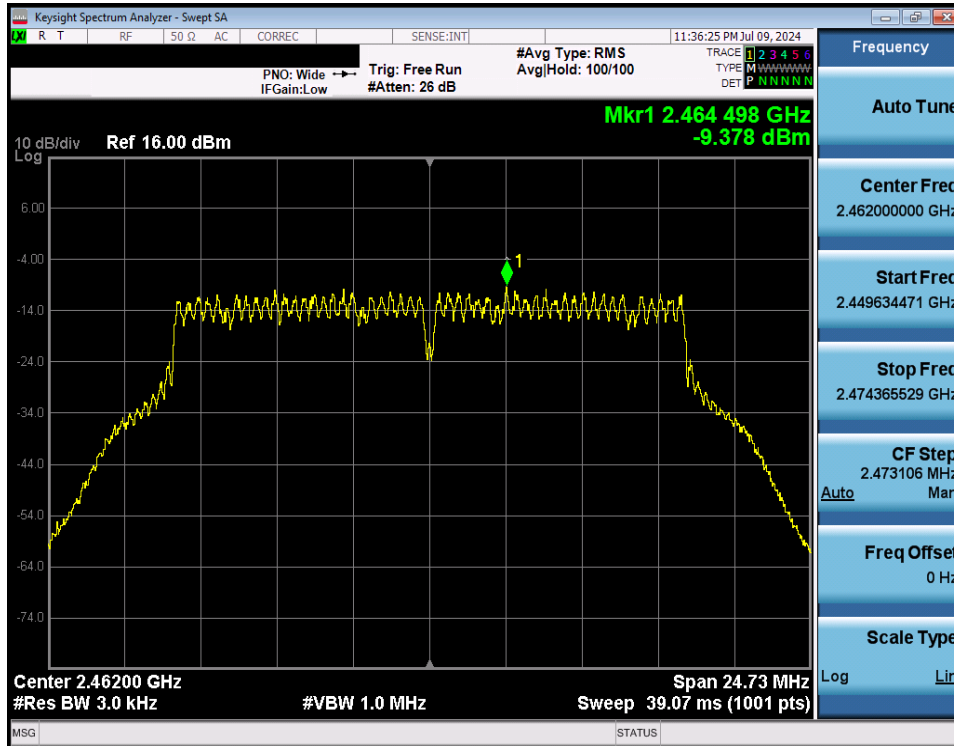


Plot 7-159. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 6) – 54Mbps

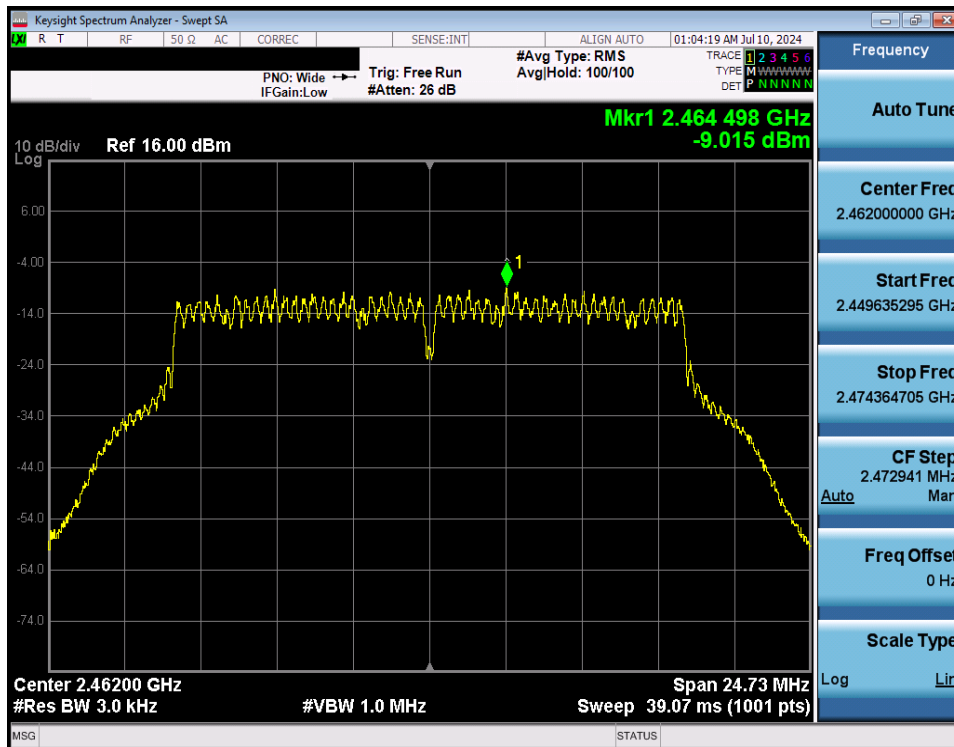


Plot 7-160. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 6) – 54Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 122 of 431

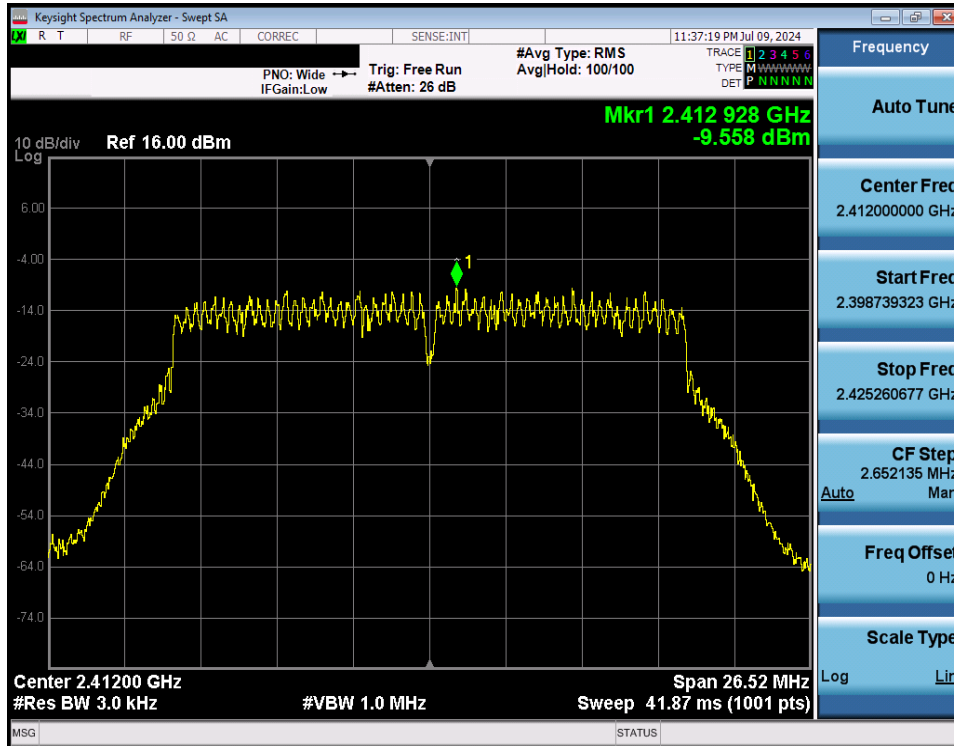


Plot 7-161. Power Spectral Density Plot CDD Antenna WF8 (802.11g – Ch. 11) – 54Mbps

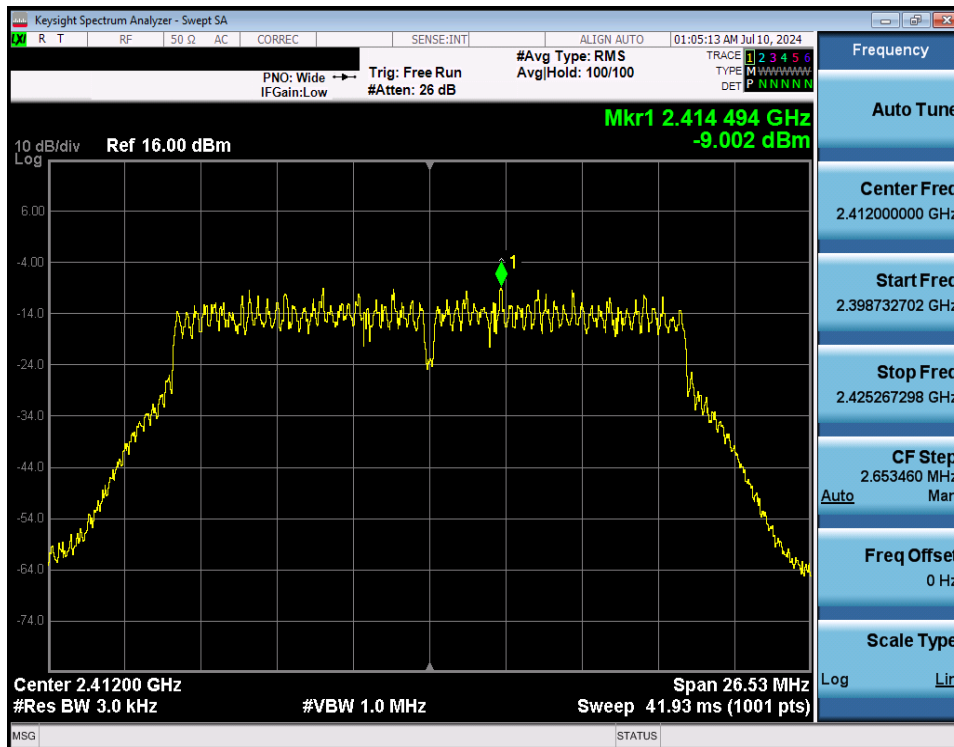


Plot 7-162. Power Spectral Density Plot CDD Antenna WF7 (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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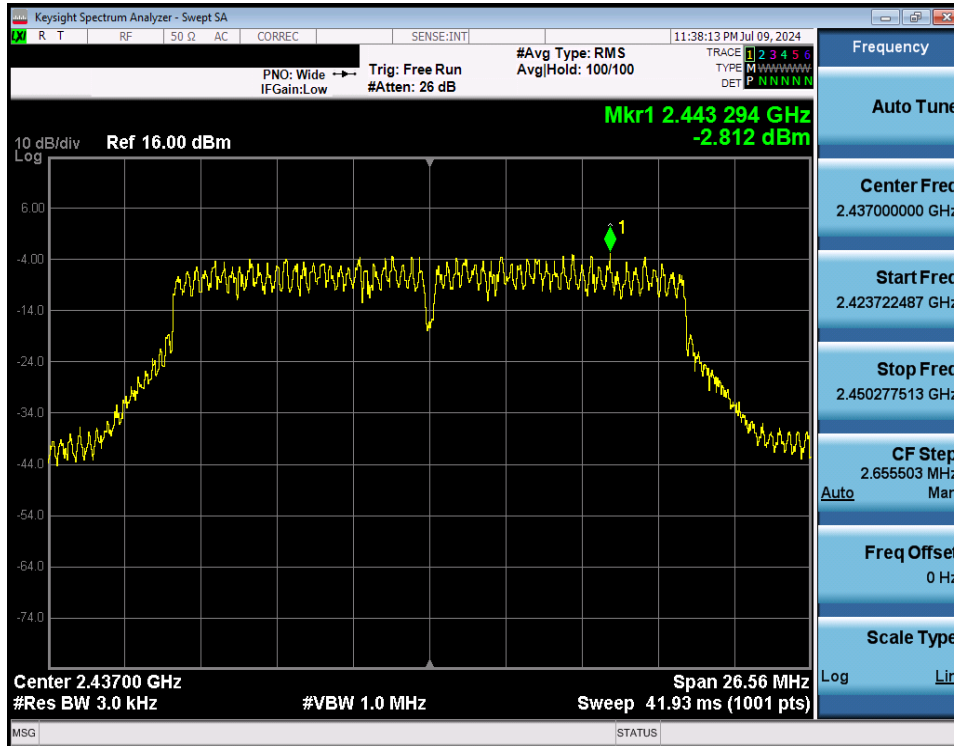


Plot 7-163. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS15

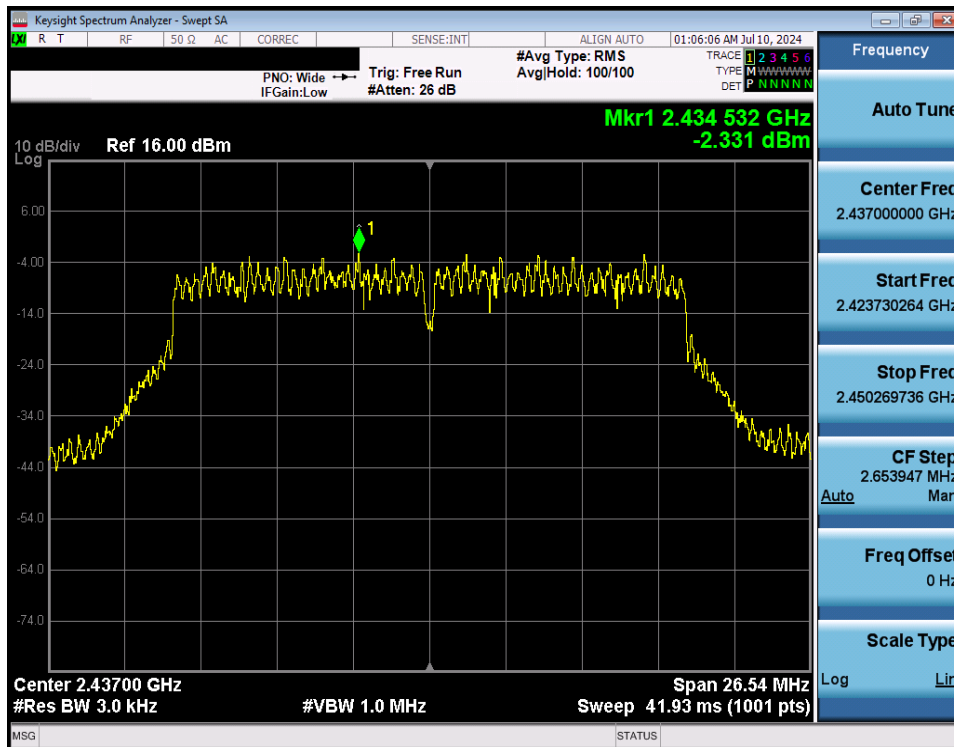


Plot 7-164. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 1) – MCS15

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 124 of 431

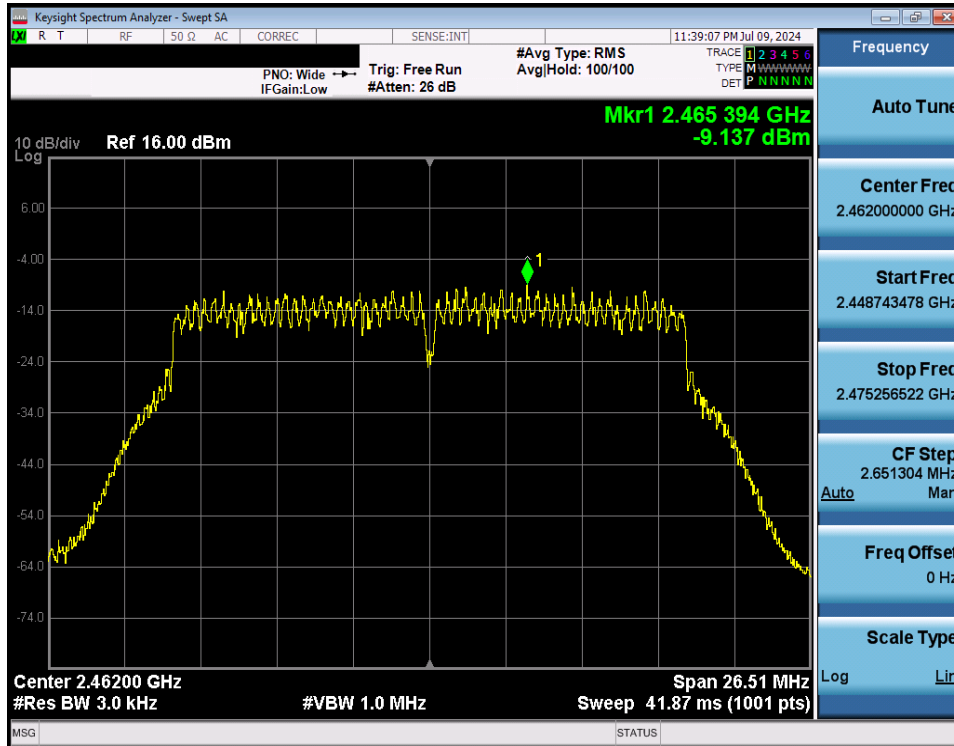


Plot 7-165. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 6) – MCS15

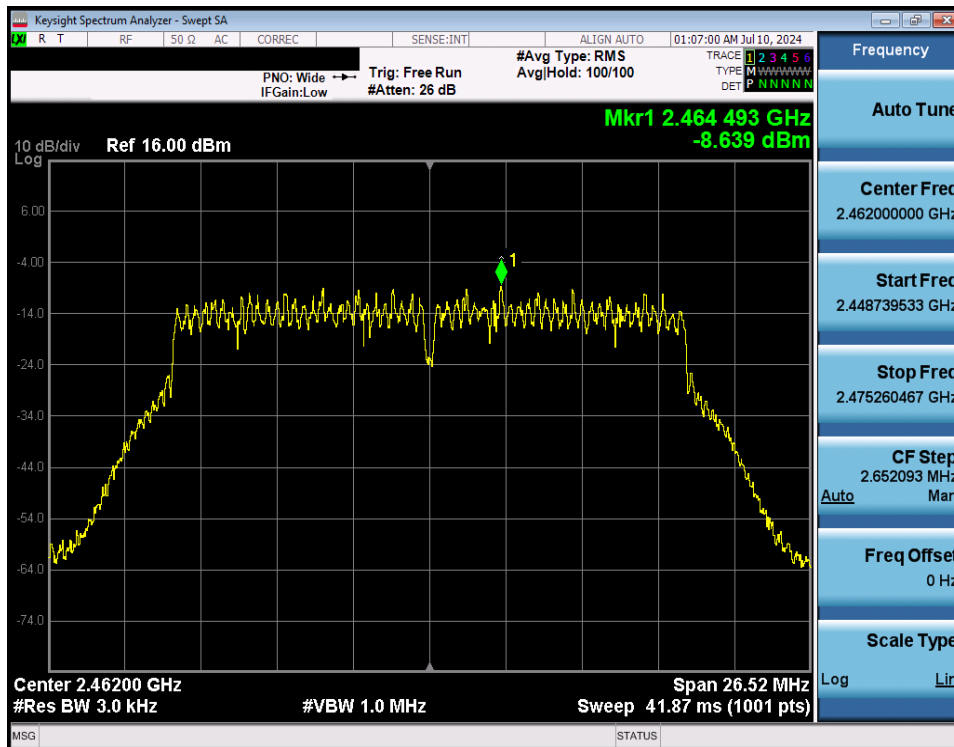


Plot 7-166. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 6) – MCS15

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 125 of 431

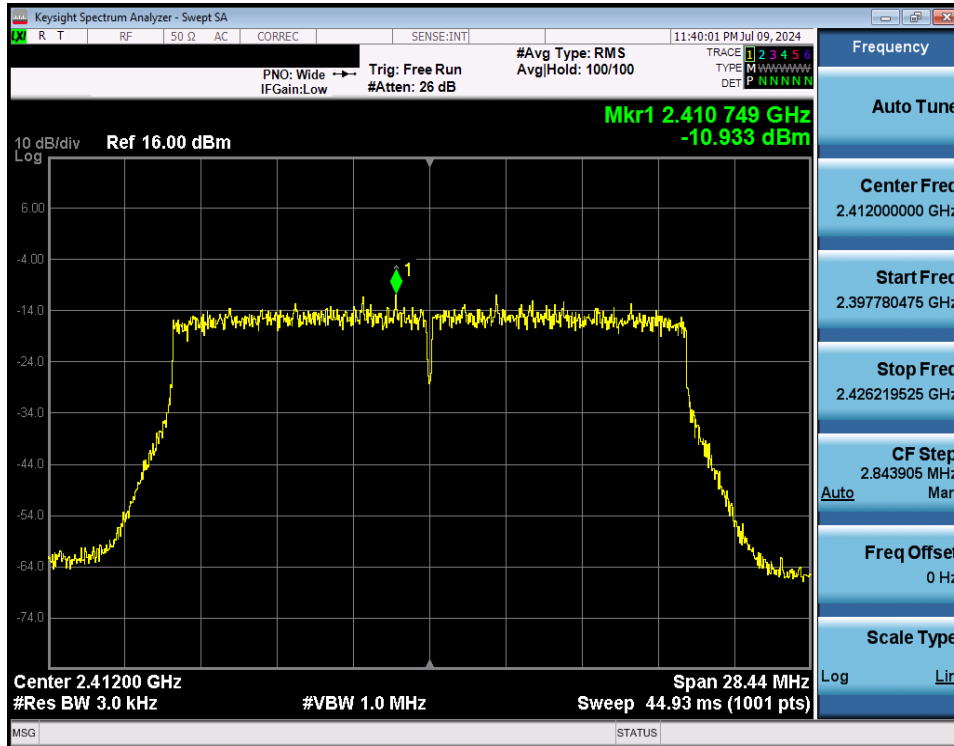


Plot 7-167. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS15

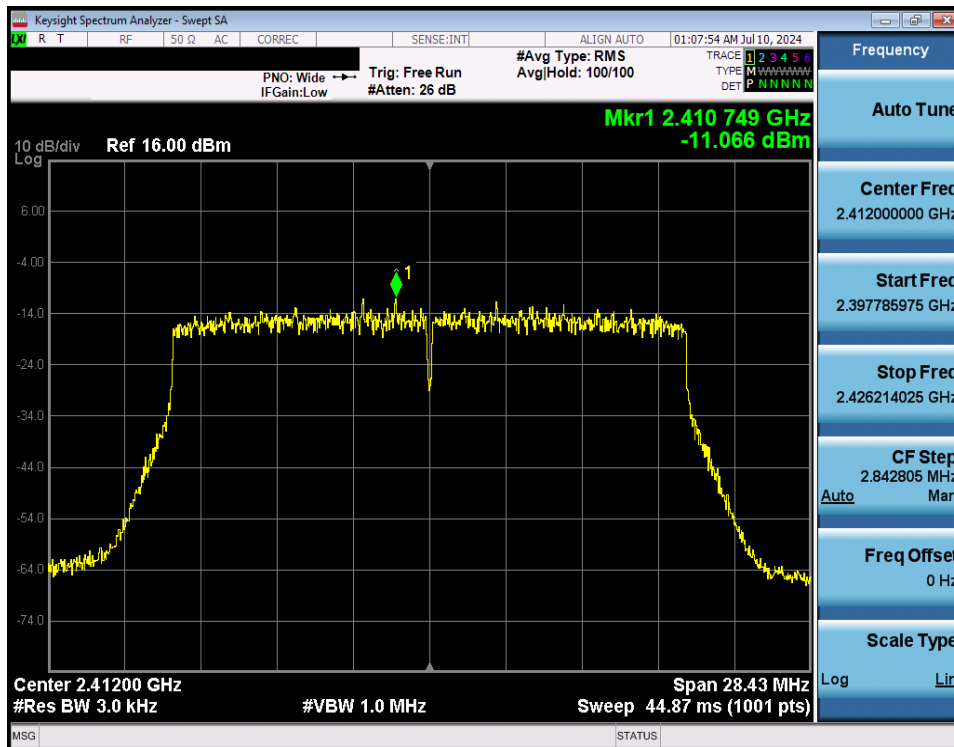


Plot 7-168. Power Spectral Density Plot CDD Antenna WF7 (802.11n (2.4GHz) – Ch. 11) – MCS15

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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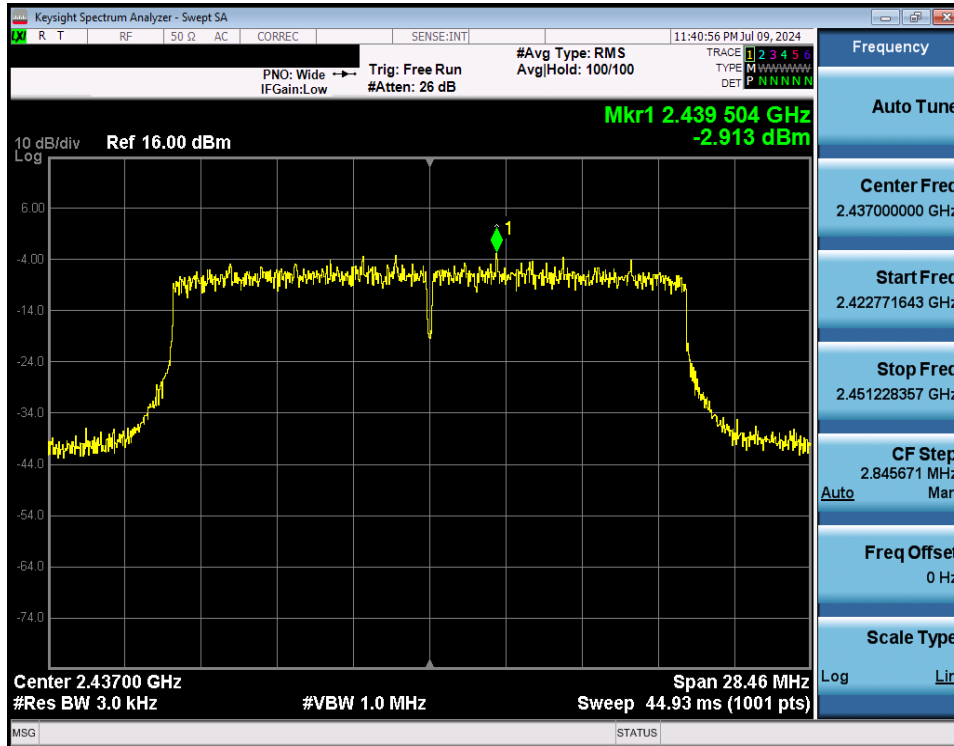


Plot 7-169. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

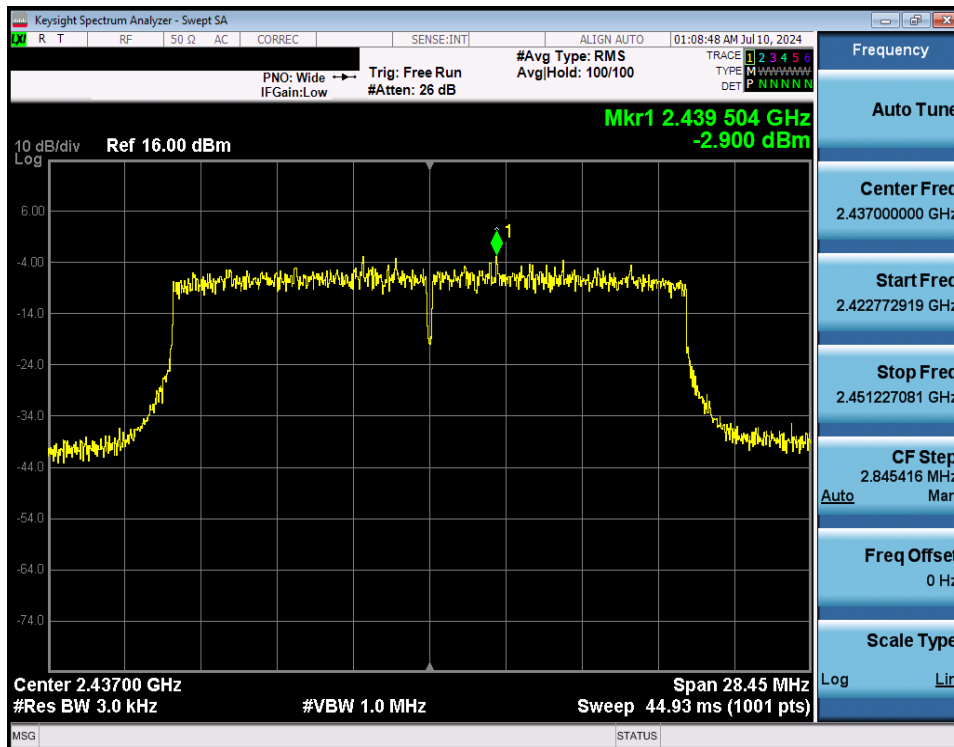


Plot 7-170. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 127 of 431

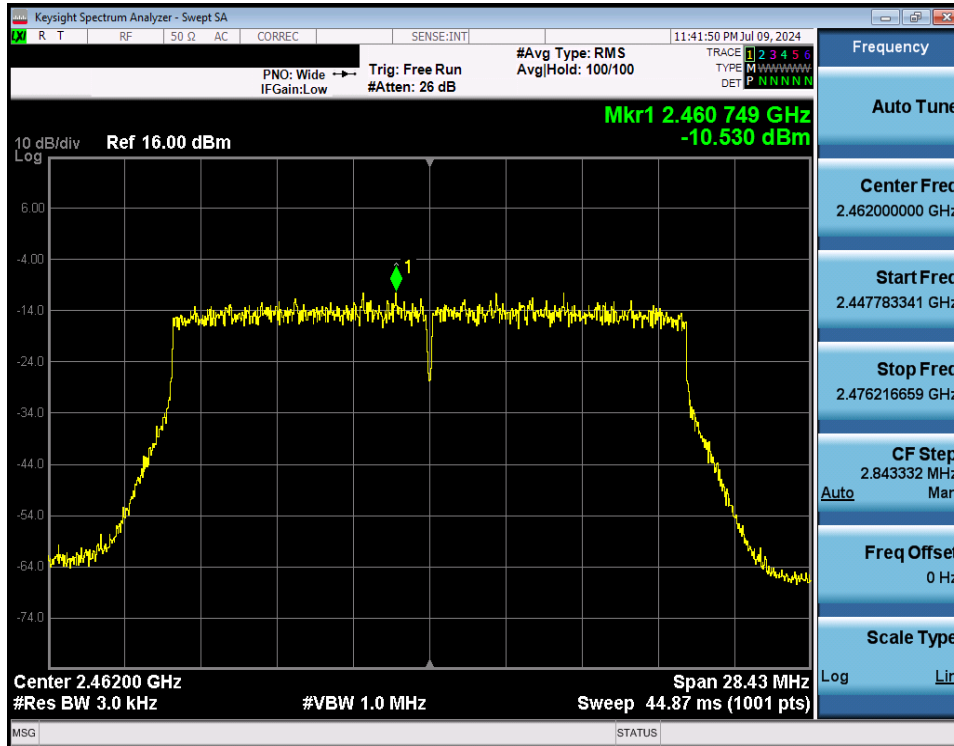


Plot 7-171. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

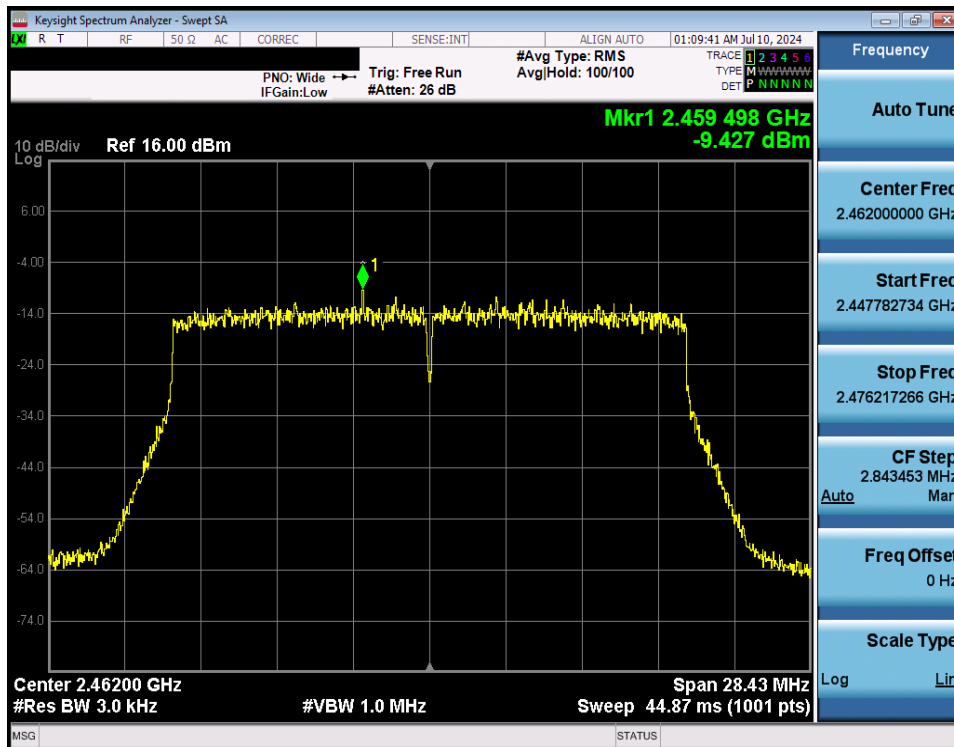


Plot 7-172. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS9

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-173. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9



Plot 7-174. Power Spectral Density Plot CDD Antenna WF7 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna WF8 and Antenna WF7 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample CDD Calculation:

At 2412MHz the average conducted power spectral density was measured to be -8.23 dBm for Antenna WF8 and -8.24 dBm for Antenna WF7.

$$\text{Antenna WF8} + \text{Antenna WF7} = \text{CDD}$$

$$(-8.23 \text{ dBm} + -8.24 \text{ dBm}) = (0.150 \text{ mW} + 0.150 \text{ mW}) = 0.301 \text{ mW} = -5.22 \text{ dBm}$$

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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 12, 24, 54 Mbps for “g” mode, 19.5/21.7, 39/43.3, 65/72.2Mbps for “n” mode, and 24/25.8, 49/51.6, 81/86 for “ax-SU” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

All antenna configurations were investigated and only the worst case is reported.

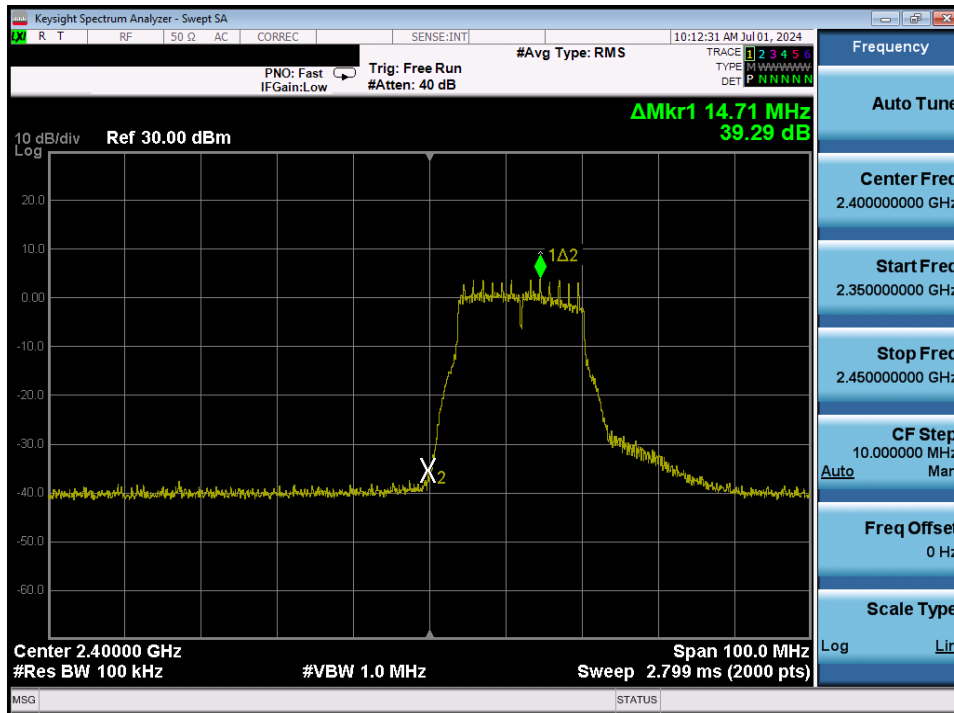
The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data groups have been investigated and only the worst case data rate per group is reported.

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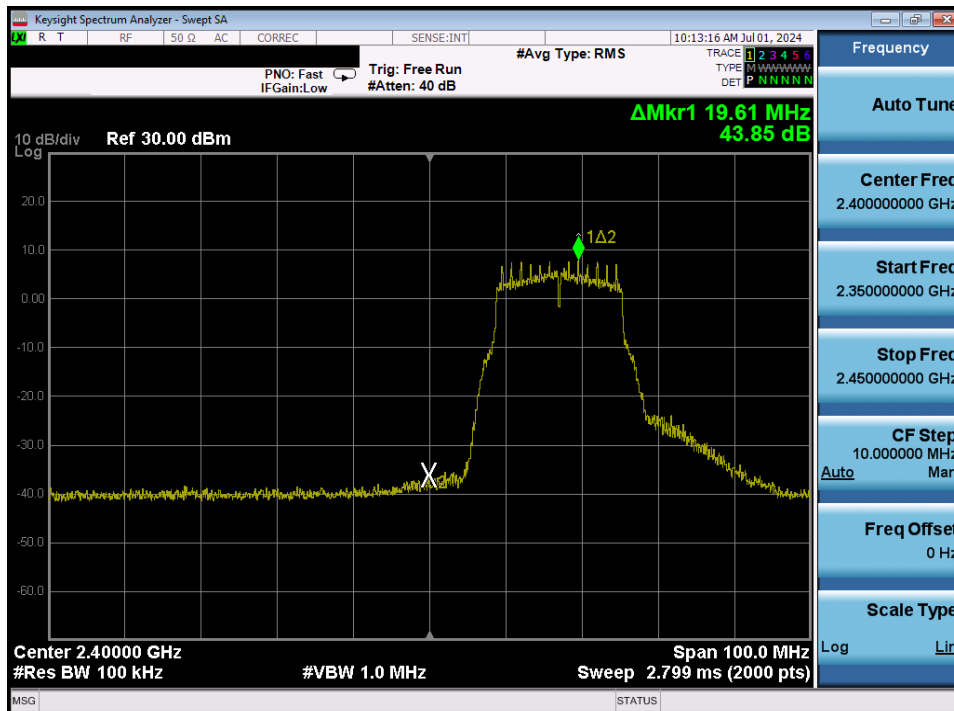
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7.5.1 Antenna WF8 Conducted Emissions at the Band Edge

Low Rate

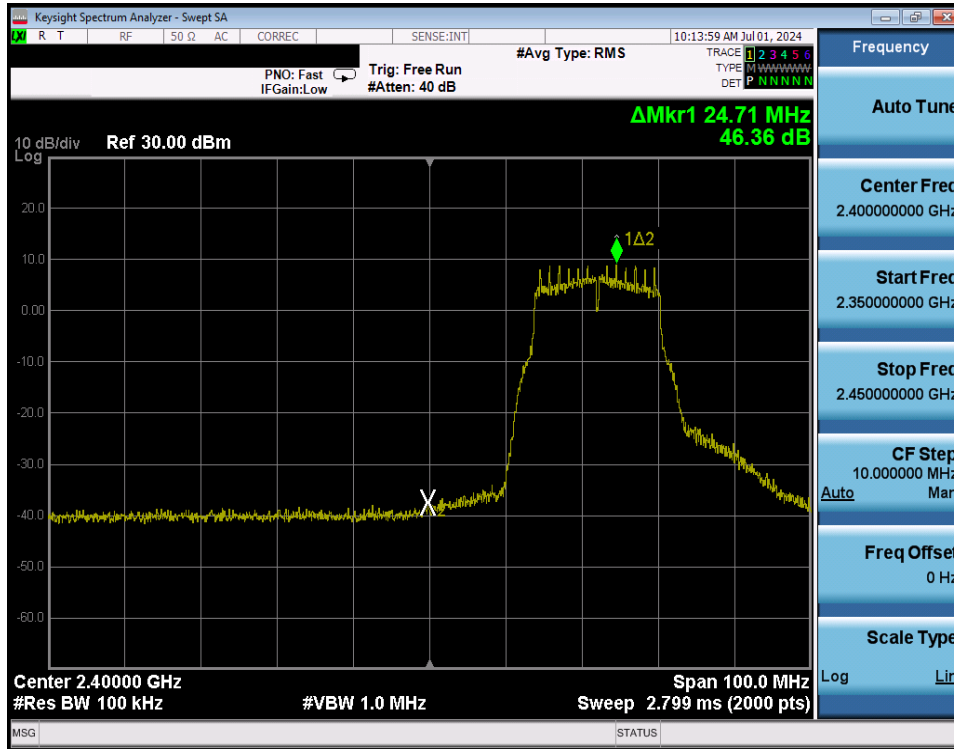


Plot 7-175. Band Edge Plot Antenna WF8 (802.11g – Ch. 1) – 12Mbps

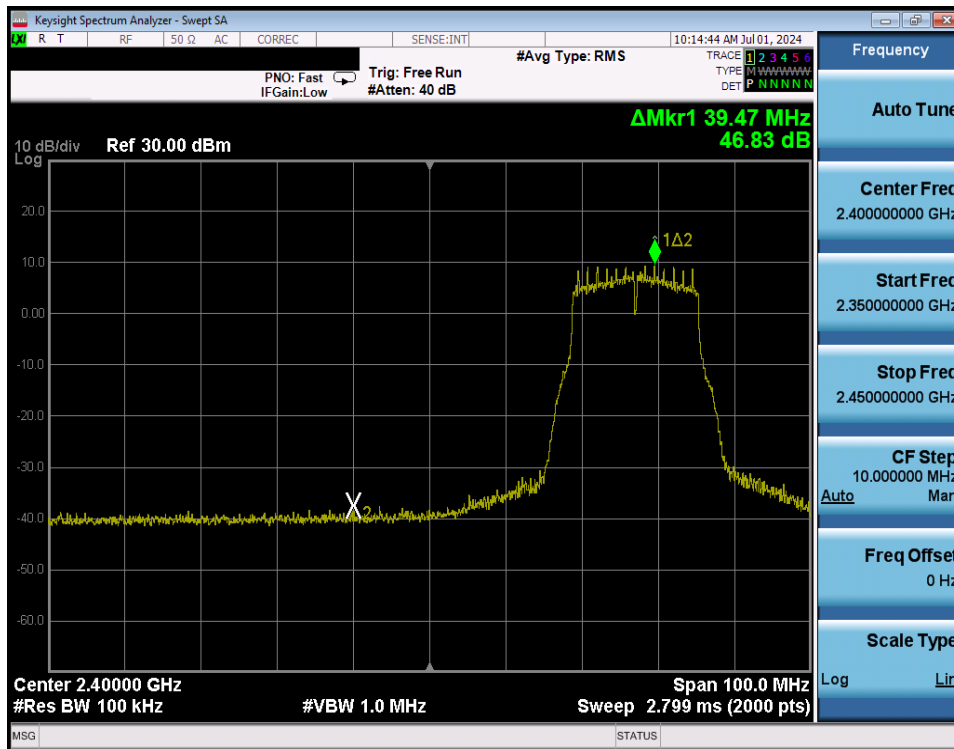


Plot 7-176. Band Edge Plot Antenna WF8 (802.11g – Ch. 2) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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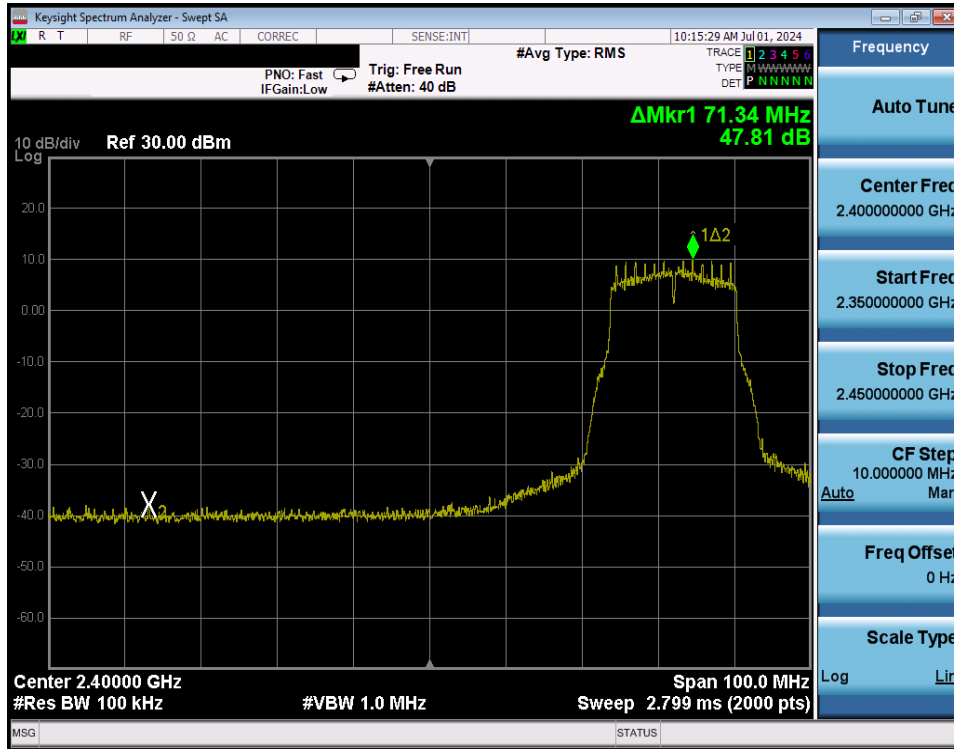


Plot 7-177. Band Edge Plot Antenna WF8 (802.11g – Ch. 3) – 12Mbps

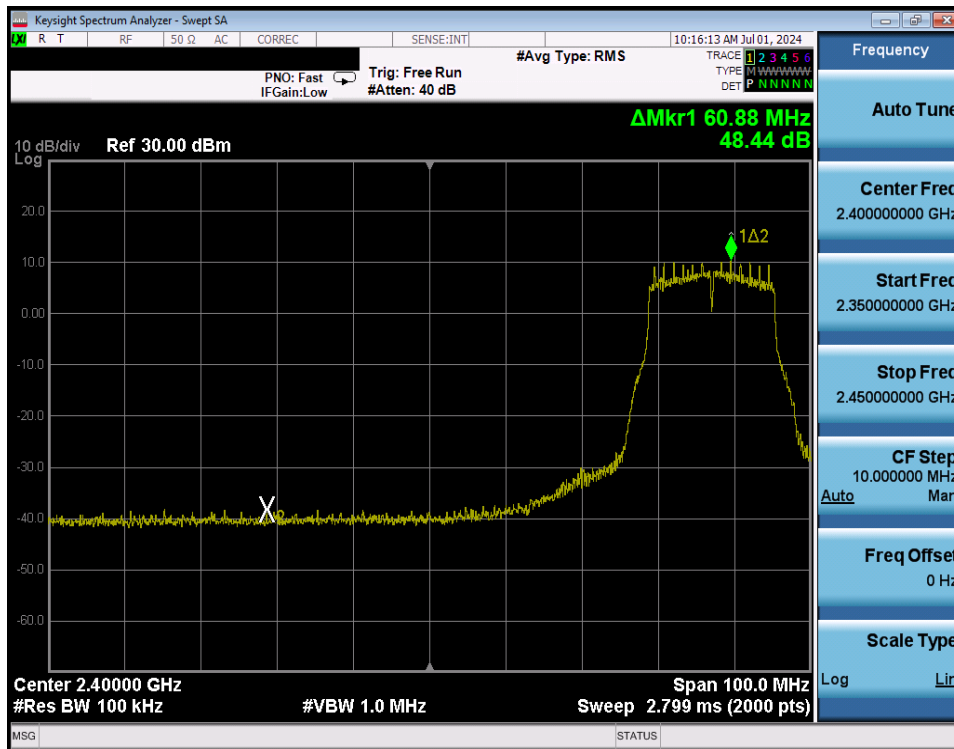


Plot 7-178. Band Edge Plot Antenna WF8 (802.11g – Ch. 4) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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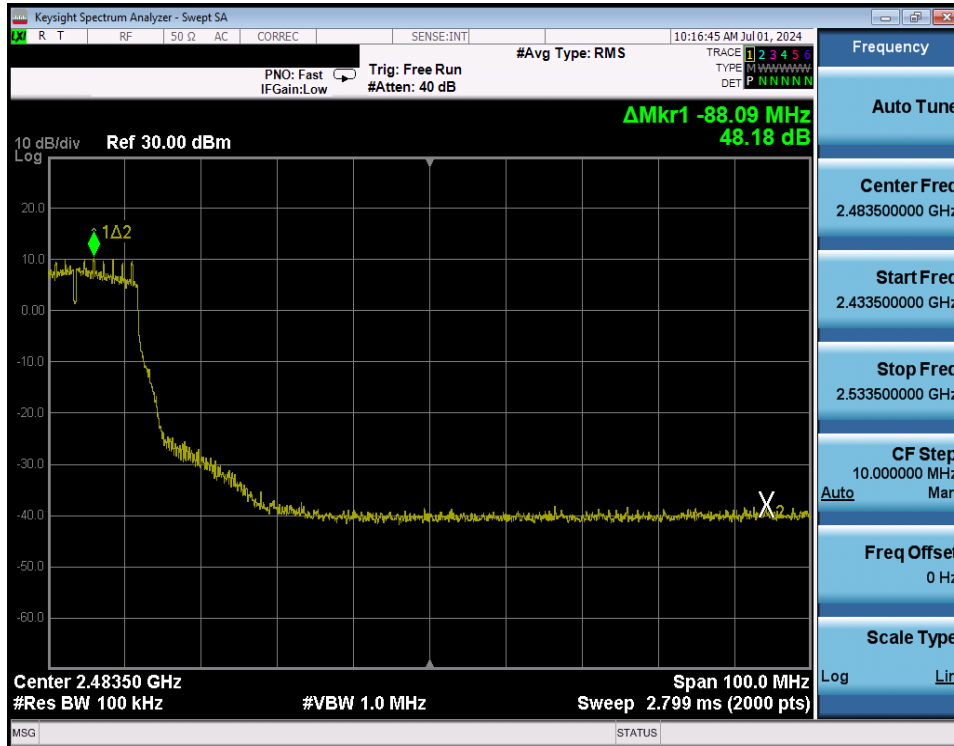


Plot 7-179. Band Edge Plot Antenna WF8 (802.11g – Ch. 5) – 12Mbps

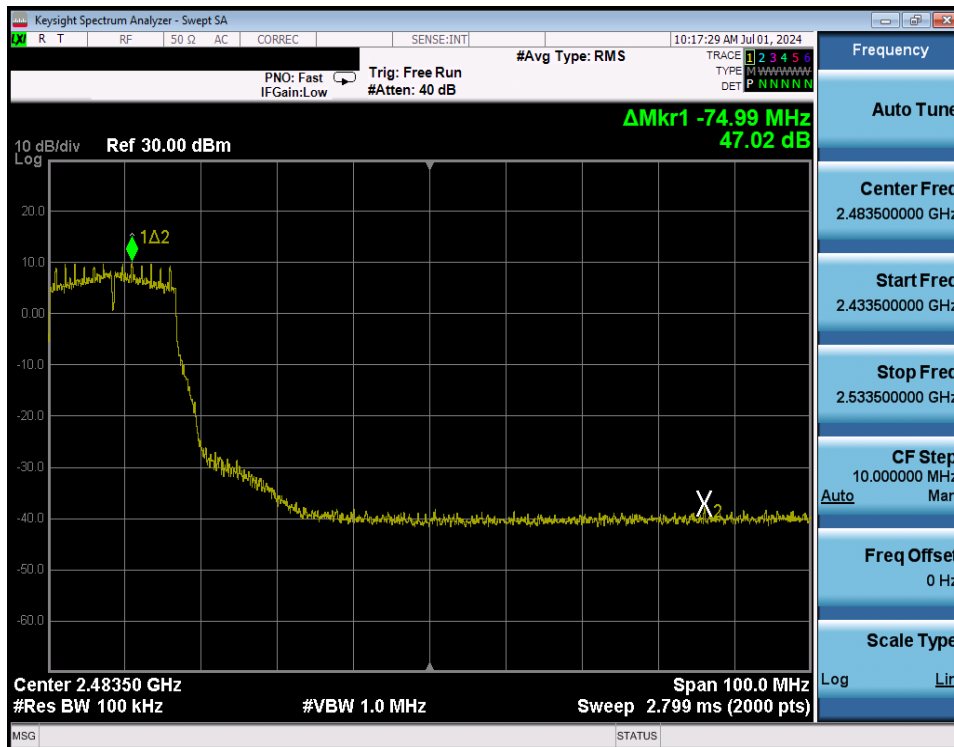


Plot 7-180. Band Edge Plot Antenna WF8 (802.11g – Ch. 6 Low) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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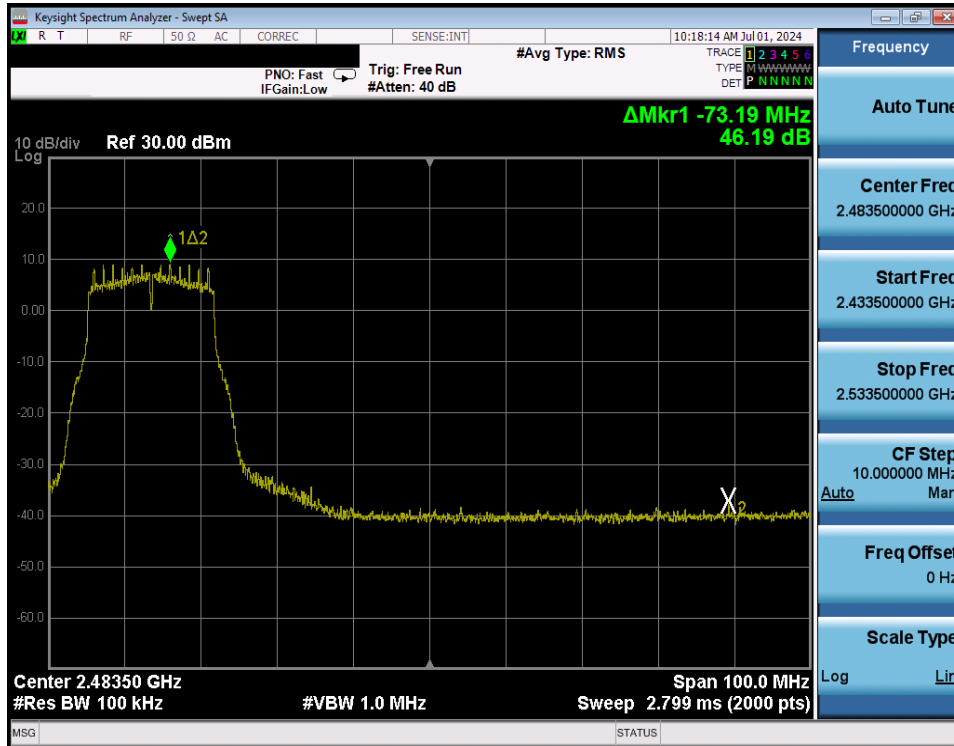


Plot 7-181. Band Edge Plot Antenna WF8 (802.11g – Ch. 6 High) – 12Mbps

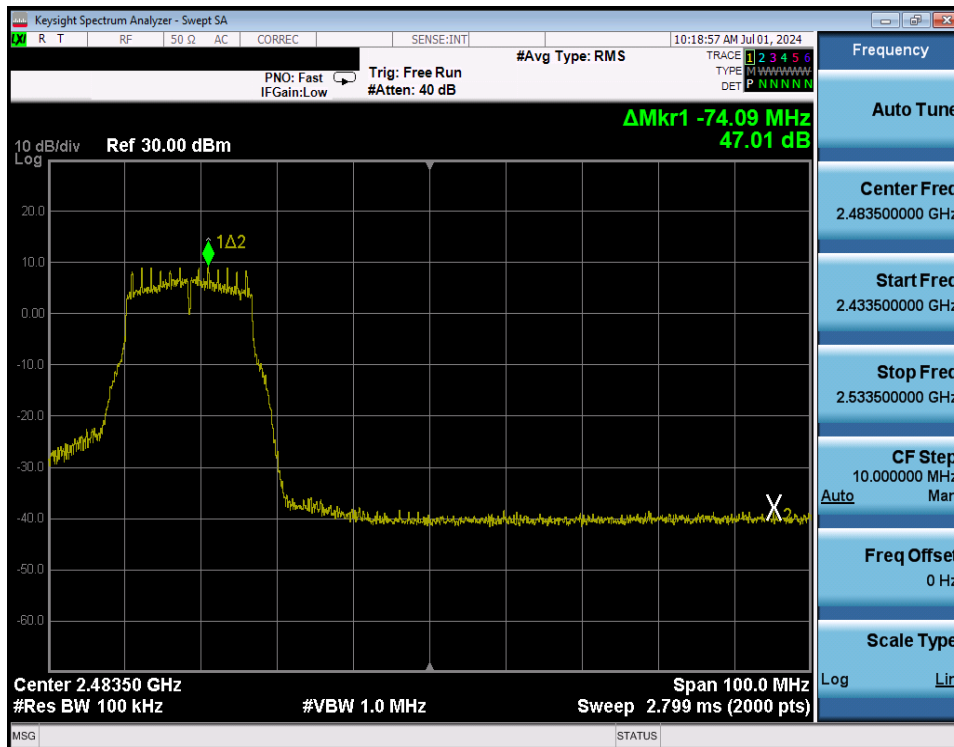


Plot 7-182. Band Edge Plot Antenna WF8 (802.11g – Ch. 7) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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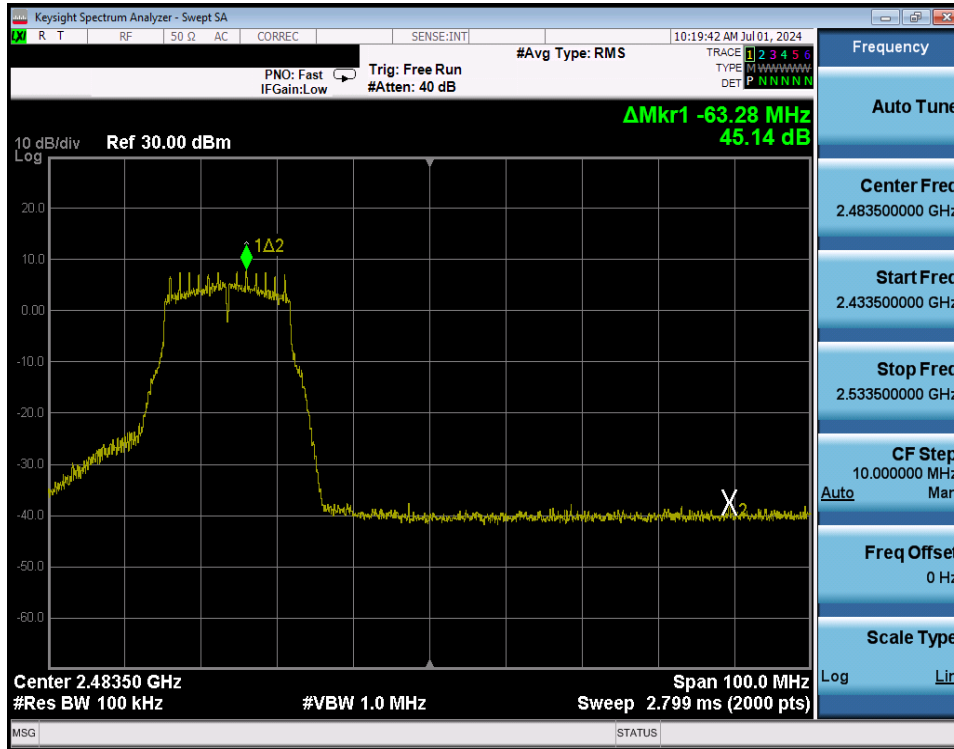


Plot 7-183. Band Edge Plot Antenna WF8 (802.11g – Ch. 8) – 12Mbps

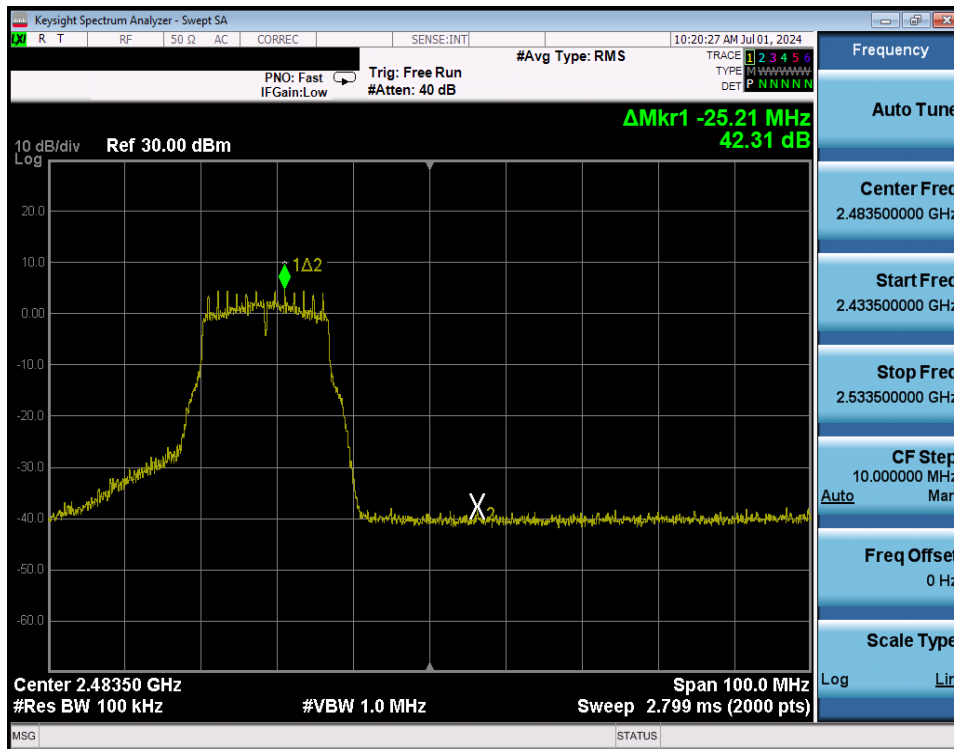


Plot 7-184. Band Edge Plot Antenna WF8 (802.11g – Ch. 9) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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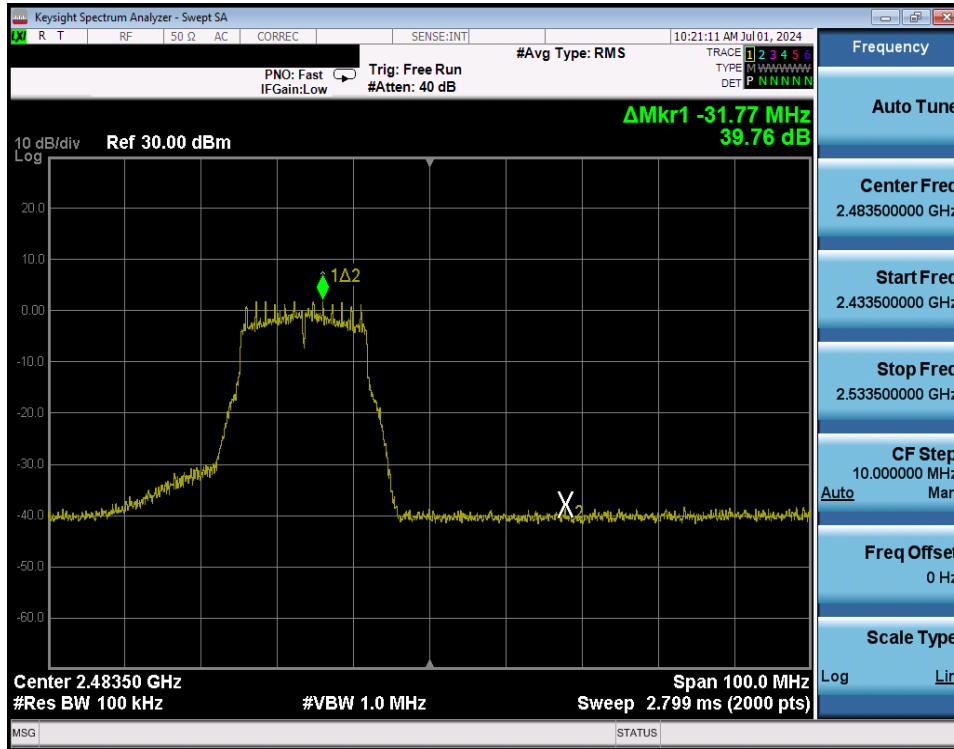


Plot 7-185. Band Edge Plot Antenna WF8 (802.11g – Ch. 10) – 12Mbps

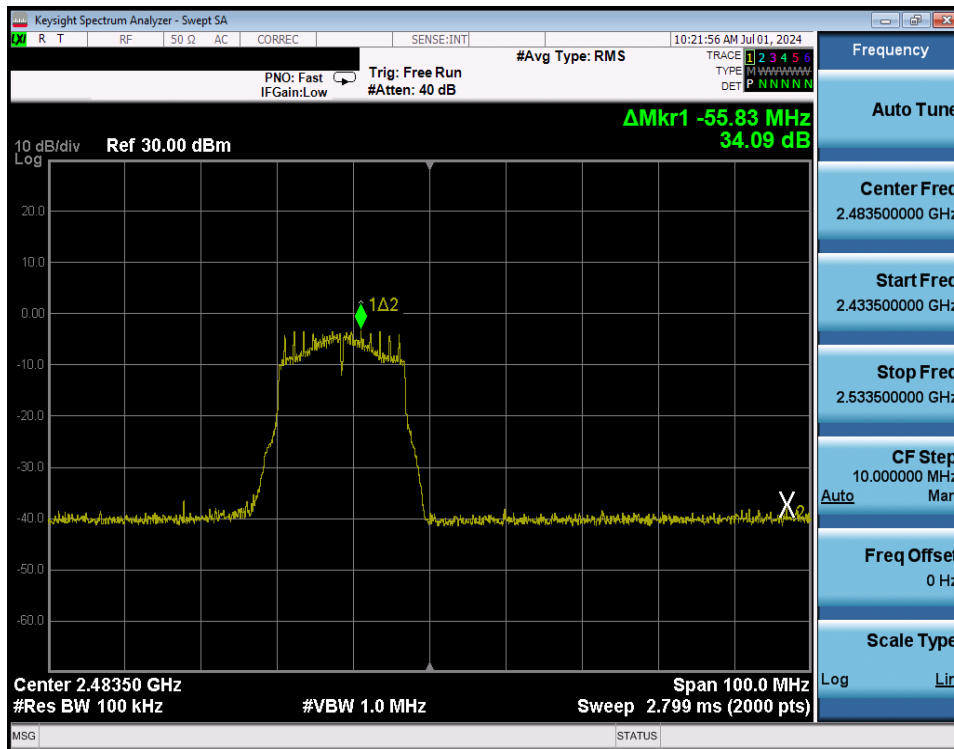


Plot 7-186. Band Edge Plot Antenna WF8 (802.11g – Ch. 11) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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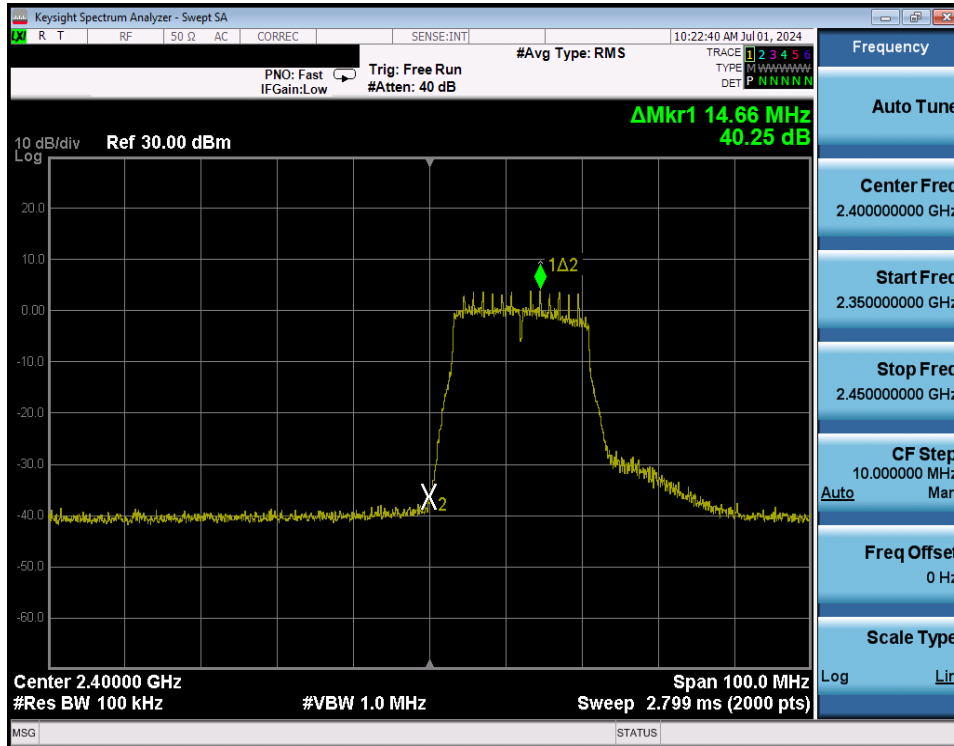


Plot 7-187. Band Edge Plot Antenna WF8 (802.11g – Ch. 12) – 12Mbps

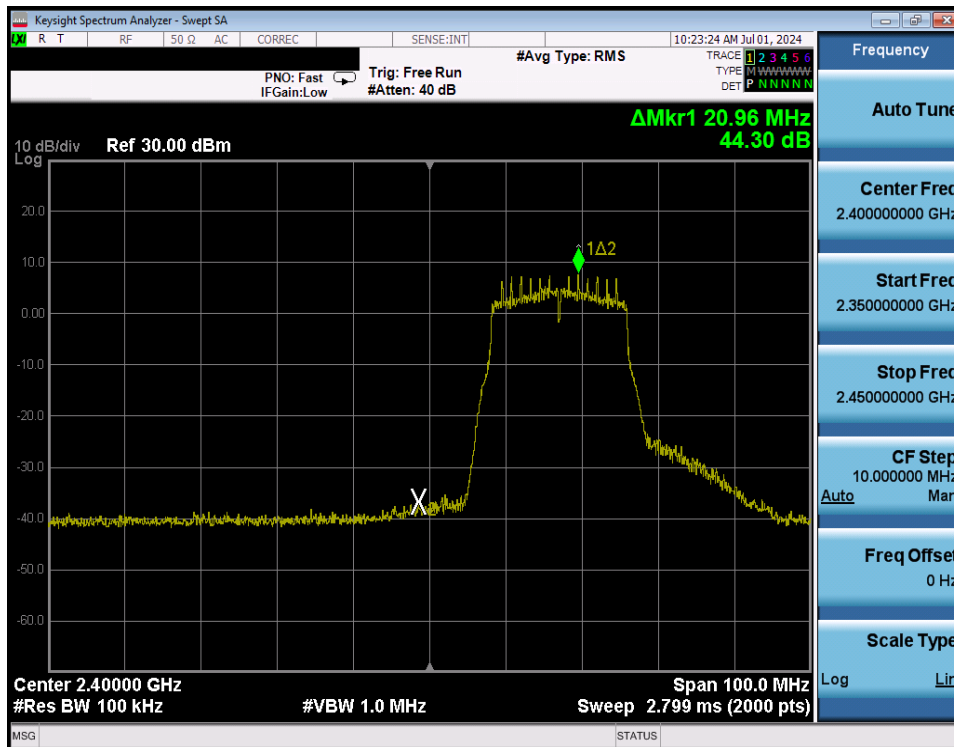


Plot 7-188. Band Edge Plot Antenna WF8 (802.11g – Ch. 13) – 12Mbps

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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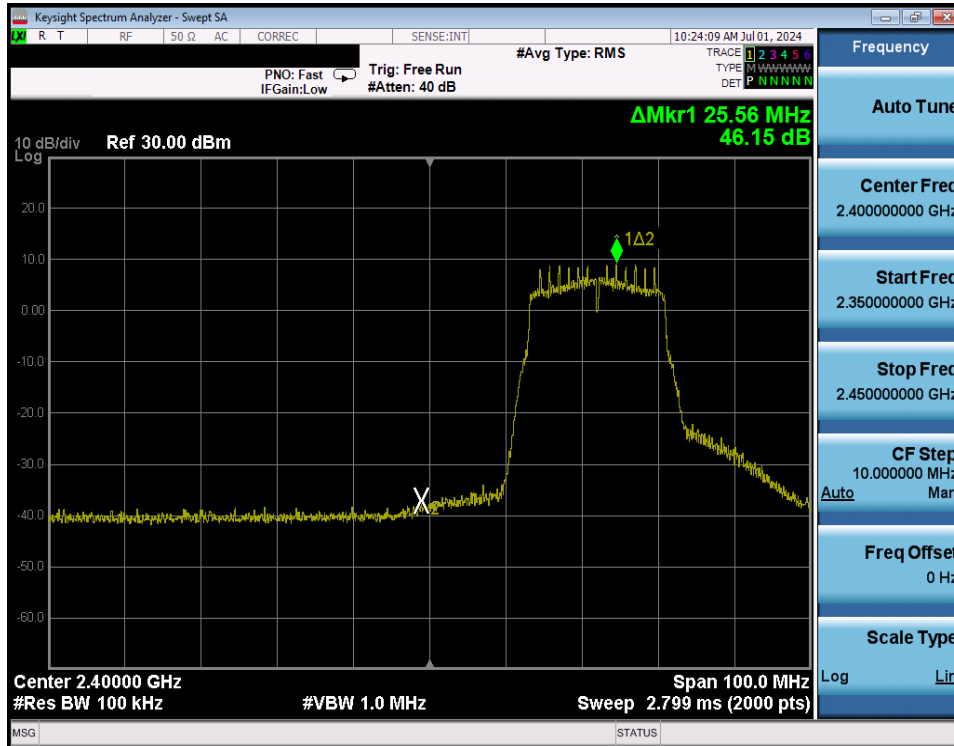


Plot 7-189. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS2

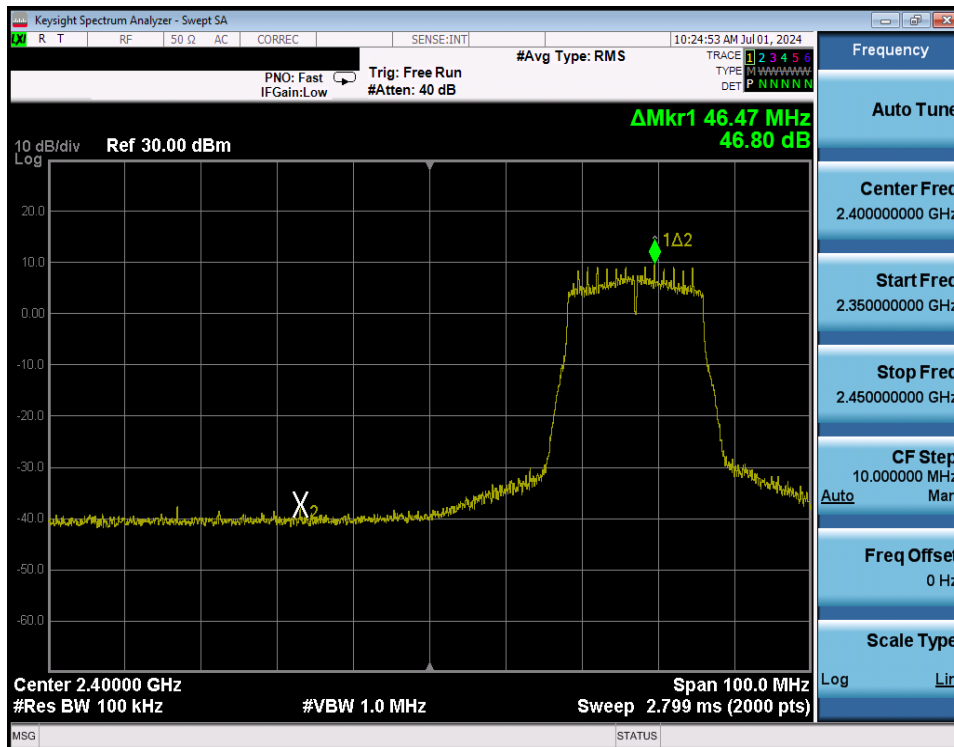


Plot 7-190. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 2) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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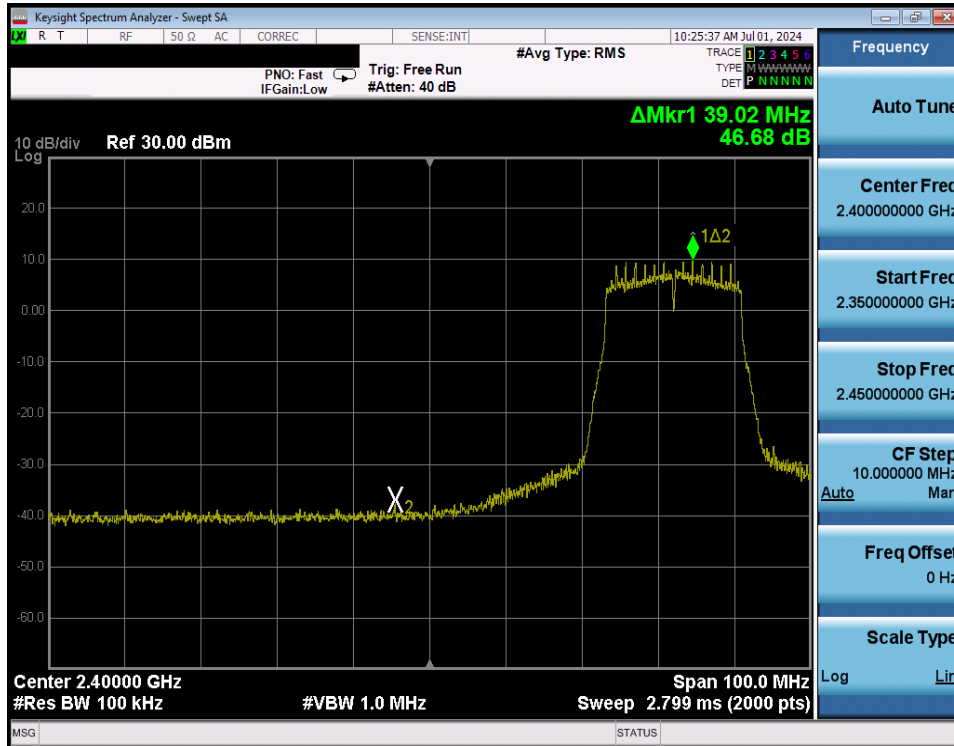


Plot 7-191. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 3) – MCS2

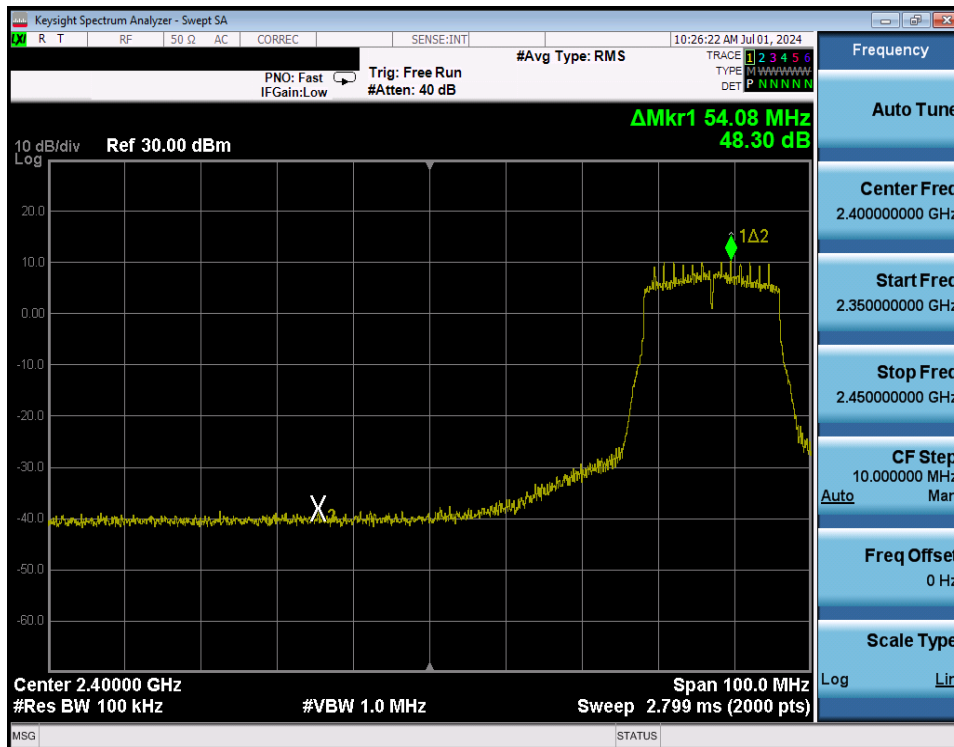


Plot 7-192. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 4) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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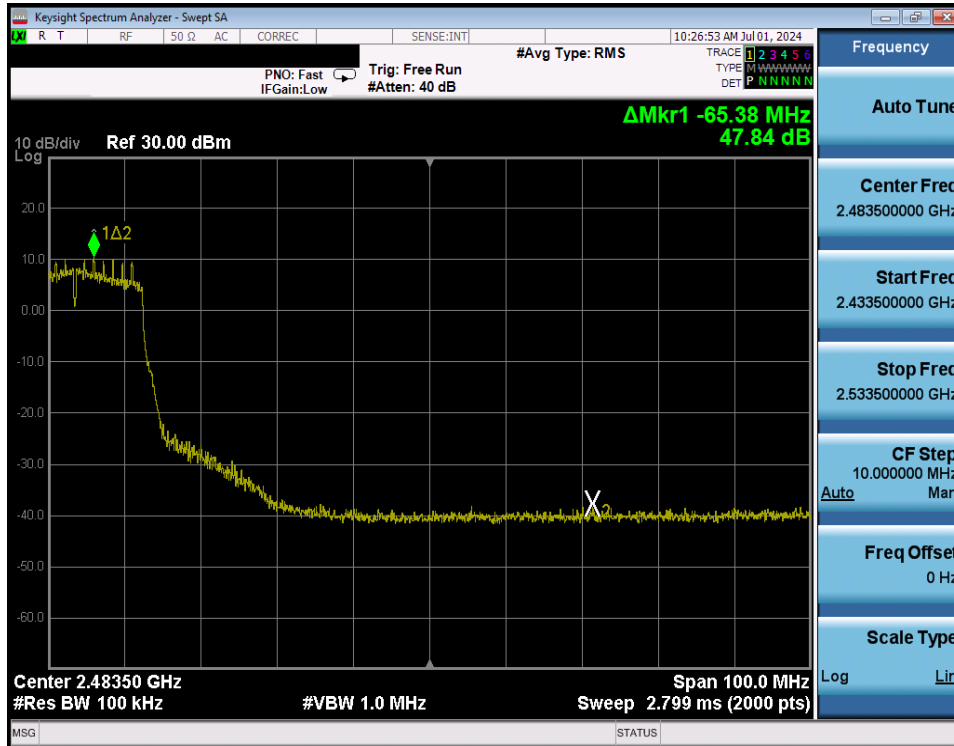


Plot 7-193. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 5) – MCS2

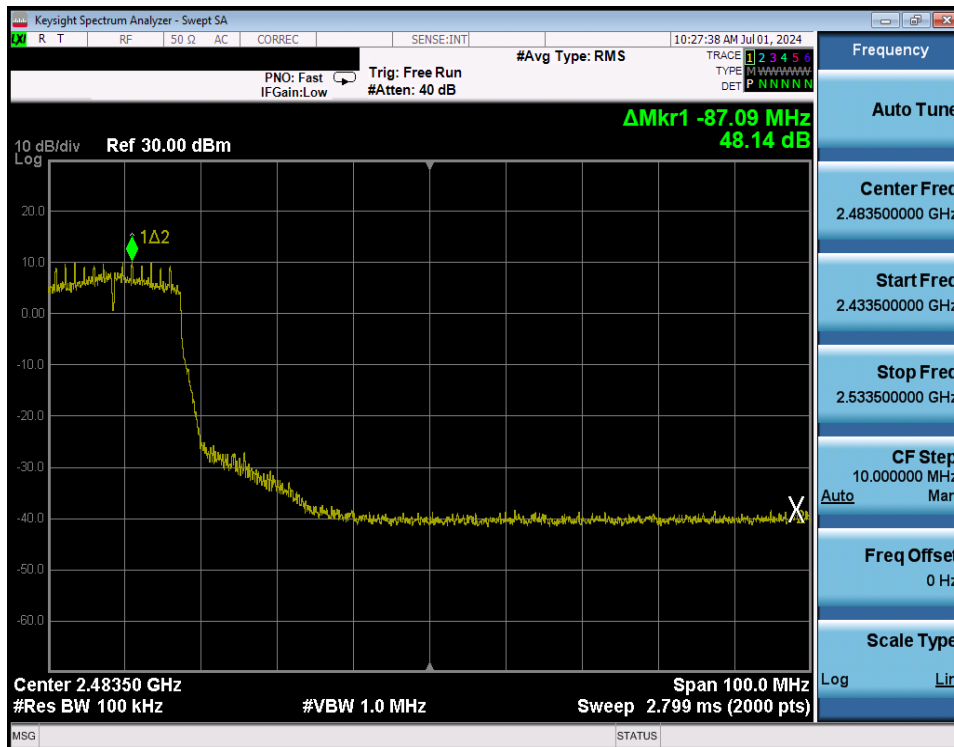


Plot 7-194. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6 Low) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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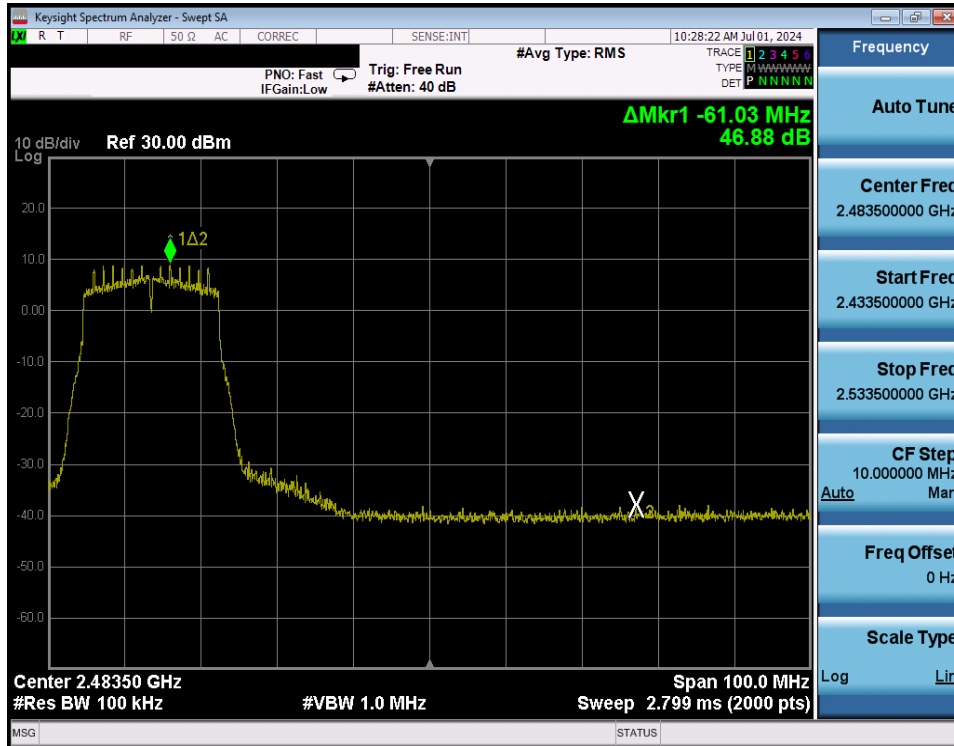


Plot 7-195. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6 High) – MCS2

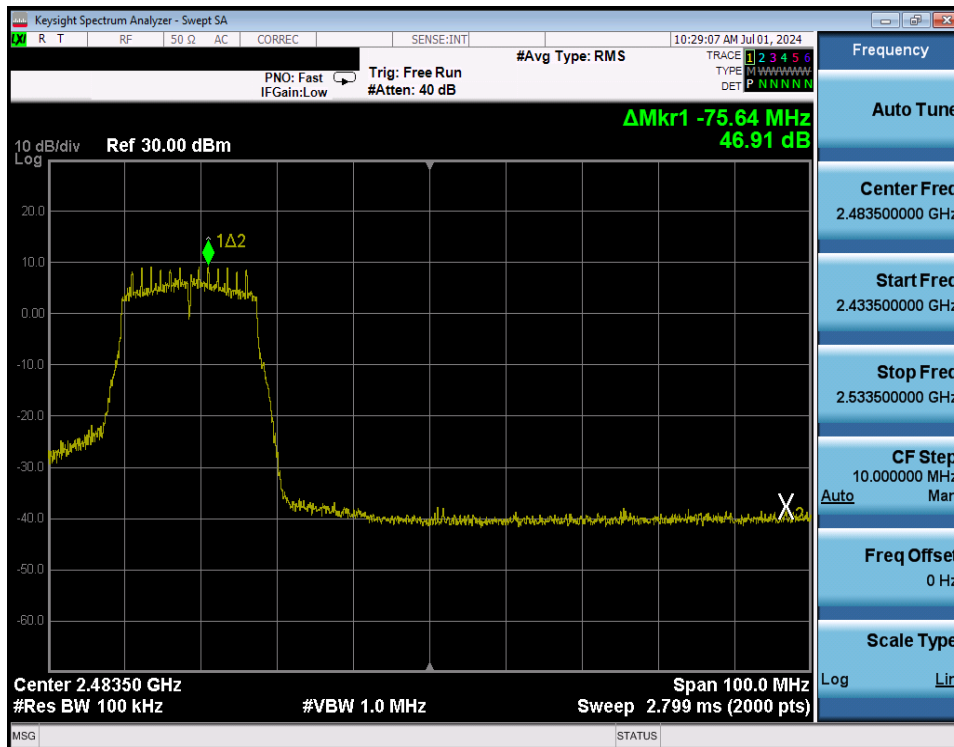


Plot 7-196. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 7) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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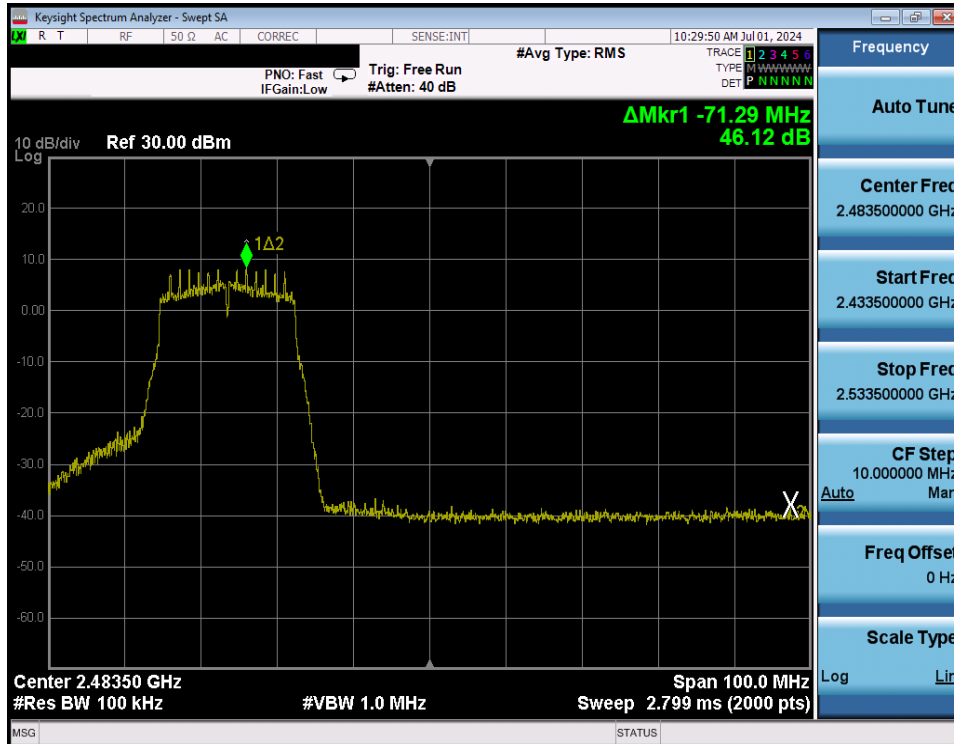


Plot 7-197. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 8) – MCS2

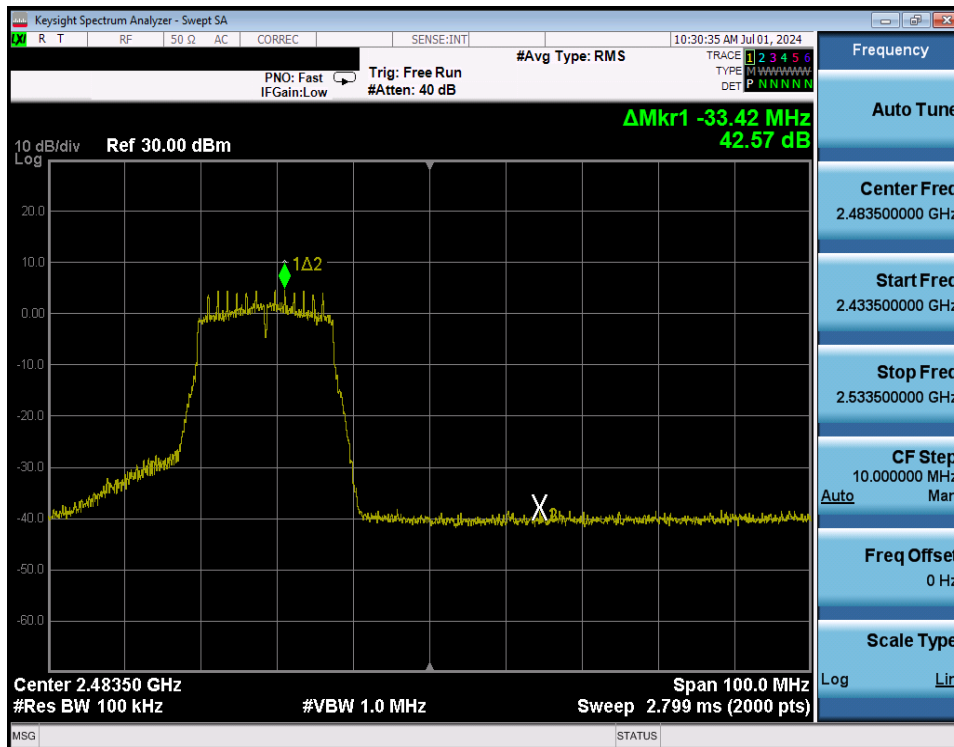


Plot 7-198. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 9) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-199. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 10) – MCS2



Plot 7-200. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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