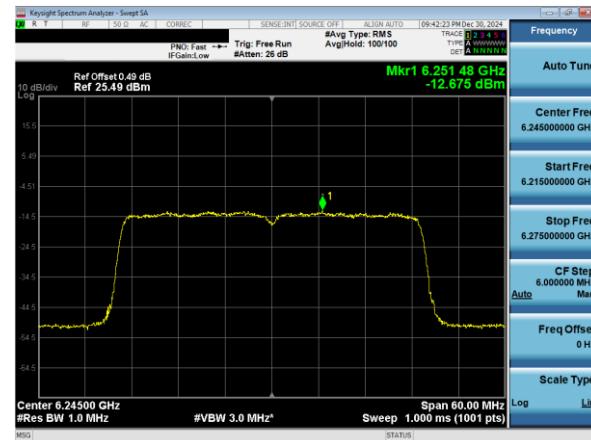
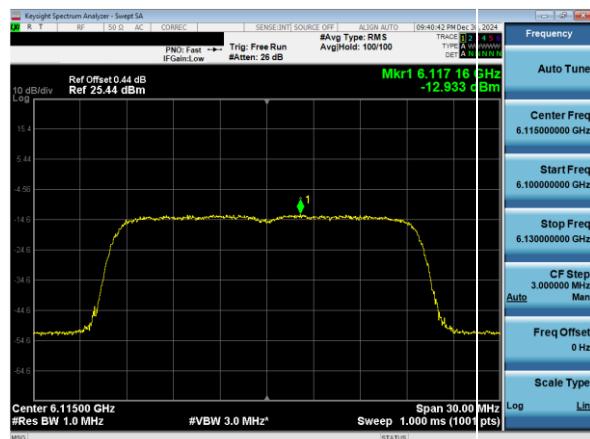


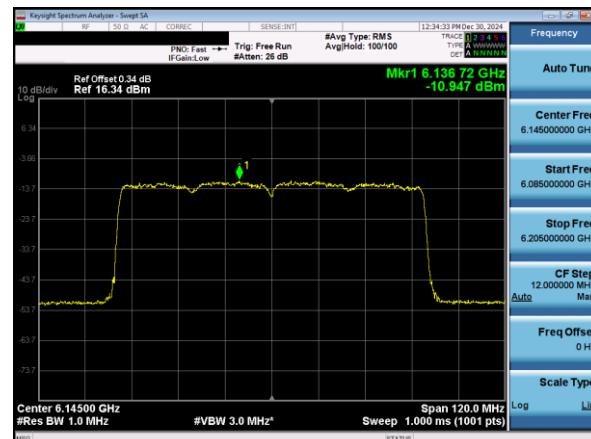
Plot 7-65. Power Spectral Density Plot SDM Diversity Antenna 5T (20MHz 802.11ax (UNII Band 5) – Ch. 33)



Plot 7-68. Power Spectral Density Plot SDM Diversity Antenna 1b (40MHz 802.11ax (UNII Band 5) – Ch. 59)



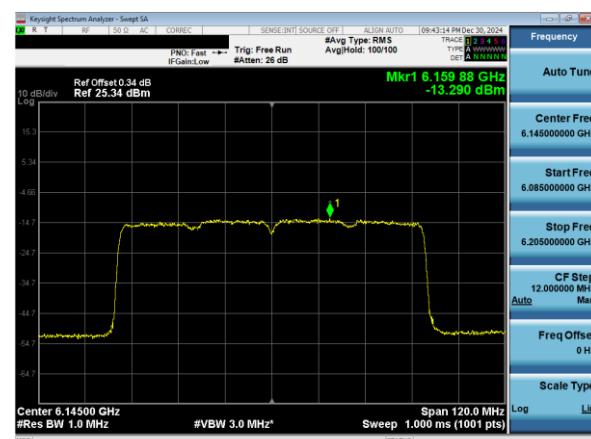
Plot 7-66. Power Spectral Density Plot SDM Diversity Antenna 1b (20MHz 802.11ax (UNII Band 5) – Ch. 33)



Plot 7-69. Power Spectral Density Plot SDM Diversity Antenna 5T (80MHz 802.11ax (UNII Band 5) – Ch. 39)

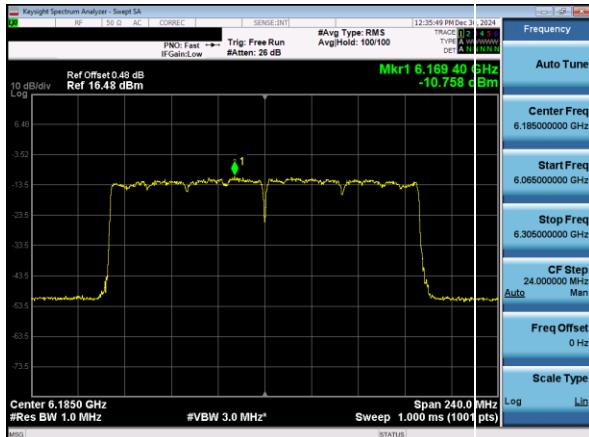


Plot 7-67. Power Spectral Density Plot SDM Diversity Antenna 5T (40MHz 802.11ax (UNII Band 5) – Ch. 59)

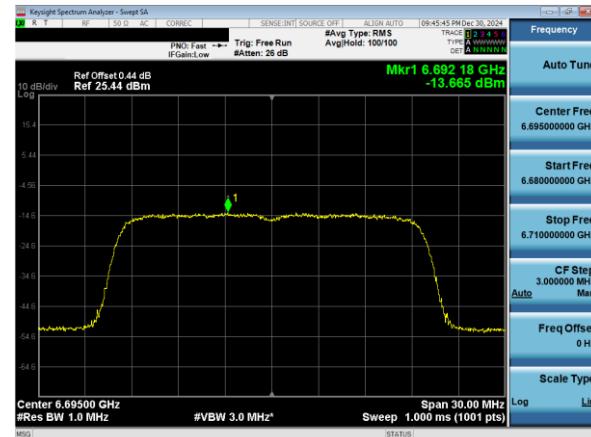


Plot 7-70. Power Spectral Density Plot SDM Diversity Antenna 1b (80MHz 802.11ax (UNII Band 5) – Ch. 39)

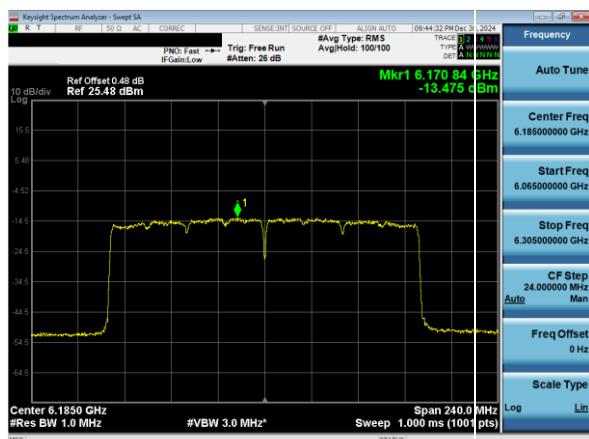
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 49 of 134



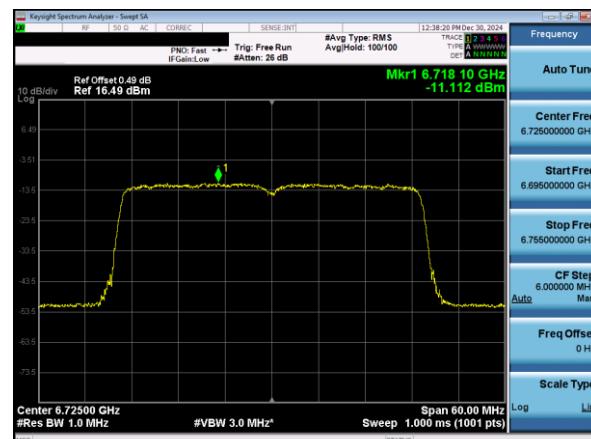
Plot 7-71. Power Spectral Density Plot SDM Diversity Antenna 5T (160MHz 802.11ax (UNII Band 5) – Ch. 47)



Plot 7-74. Power Spectral Density Plot SDM Diversity Antenna 1b (20MHz 802.11ax (UNII Band 7) – Ch. 149)



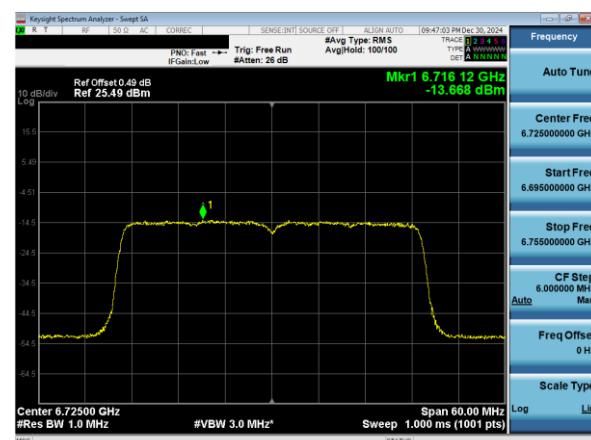
Plot 7-72. Power Spectral Density Plot SDM Diversity Antenna 1b (160MHz 802.11ax (UNII Band 5) – Ch. 47)



Plot 7-75. Power Spectral Density Plot SDM Diversity Antenna 5T (40MHz 802.11ax (UNII Band 7) – Ch. 155)

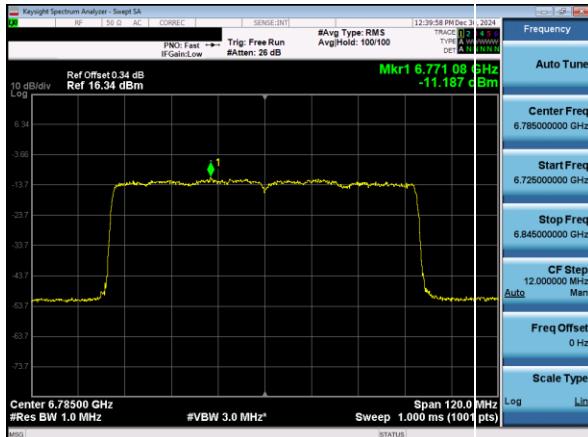


Plot 7-73. Power Spectral Density Plot SDM Diversity Antenna 5T (20MHz 802.11ax (UNII Band 7) – Ch. 149)

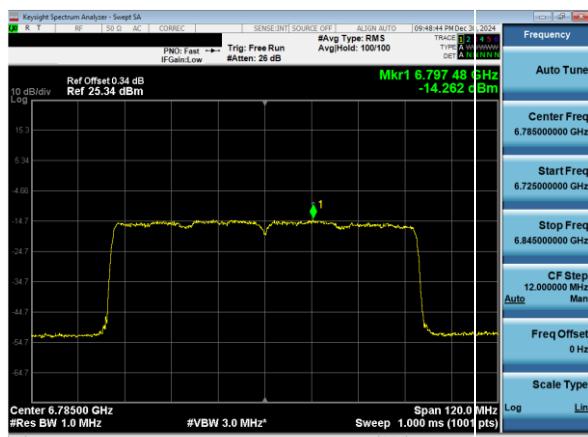


Plot 7-76. Power Spectral Density Plot SDM Diversity Antenna 1b (40MHz 802.11ax (UNII Band 7) – Ch. 155)

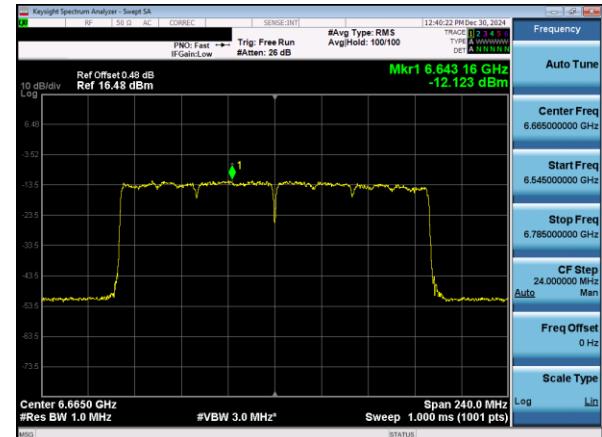
FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 50 of 134



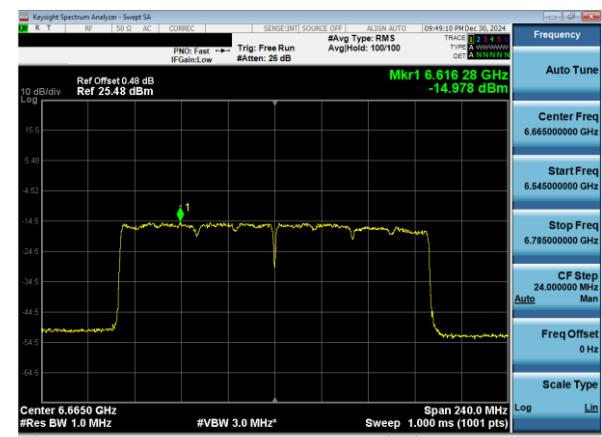
**Plot 7-77. Power Spectral Density Plot SDM Diversity Antenna 5T
(80MHz 802.11ax (UNII Band 7) – Ch. 167)**



**Plot 7-78. Power Spectral Density Plot SDM Diversity Antenna 1b
(80MHz 802.11ax (UNII Band 7) – Ch. 167)**



Plot 7-79. Power Spectral Density Plot SDM Diversity Antenna 5T (160MHz 802.11ax (UNII Band 7) – Ch. 143)



**Plot 7-80. Power Spectral Density Plot SDM Diversity Antenna 1b
(160MHz 802.11ax (UNII Band 7) – Ch. 143)**

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 51 of 134



Note:

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 5T and Antenna 3b 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 Directional Gain Calculation:

For correlated signals, assuming the antenna gain is 3.40 dBi for Antenna 5T and -0.80 dBi for Antenna 3b.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{3.40/20} + 10^{-0.80/20})^2 / 2] \text{ dBi} \\ &= 4.56 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 3.40 dBi for Antenna 5T and -0.80 dBi for Antenna 3b.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{3.40/10} + 10^{-0.80/10}) / 2] \text{ dBi} \\ &= 1.79 \text{ dBi}\end{aligned}$$

Sample SDM Primary Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -10.50 dBm for Antenna 5T and -10.79 dBm for Antenna 3b.

$$\text{Antenna 5T} + \text{Antenna 3b} = \text{SDM Primary}$$

$$(-10.50 \text{ dBm} + -10.79 \text{ dBm}) = (0.089 \text{ mW} + 0.083 \text{ mW}) = 0.172 \text{ mW} = -7.63 \text{ dBm}$$

Sample e.i.r.p Power Spectral Density Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average SDM Primary power density was calculated to be -7.63 dBm with directional gain of 1.79 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$-7.63 \text{ dBm} + 1.79 \text{ dBi} = -5.84 \text{ dBm}$$

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 52 of 134

7.5 In-Band Emissions

§15.407(b)(7); RSS-248[4.6.2]

Test Overview and Limit

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

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

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 987594 D02 v03 – Section J

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10-2020.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2020. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

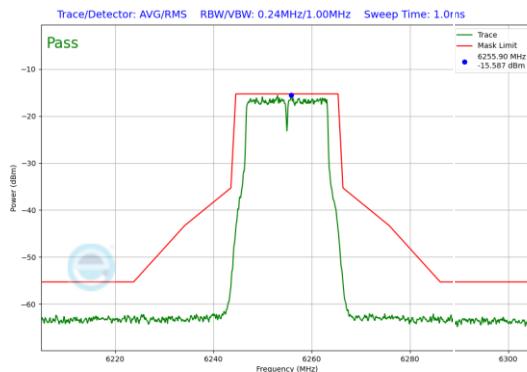
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 54 of 134

7.5.1 Antenna 5T In-Band Emission Measurements – VLP

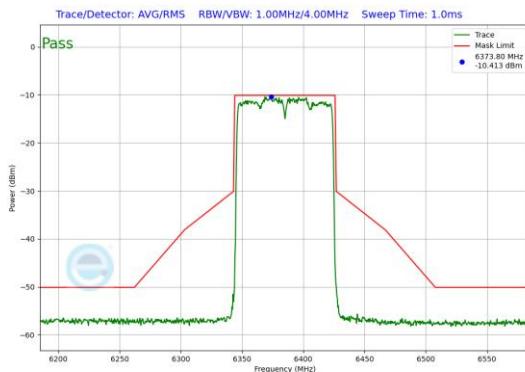
	Frequency [MHz]	Channel No.	802.11 Mode	Antenna 5T In- Band Emission
Band 5	6115	33	a	Pass
	6255	61	a	Pass
	6415	93	a	Pass
	6115	33	ax (20MHz)	Pass
	6255	61	ax (20MHz)	Pass
	6415	93	ax (20MHz)	Pass
	6125	35	ax (40MHz)	Pass
	6245	59	ax (40MHz)	Pass
	6405	91	ax (40MHz)	Pass
	6145	39	ax (80MHz)	Pass
	6225	55	ax (80MHz)	Pass
	6385	87	ax (80MHz)	Pass
	6185	47	ax (160MHz)	Pass
	6345	79	ax (160MHz)	Pass
Band 7	6535	117	a	Pass
	6695	149	a	Pass
	6855	181	a	Pass
	6535	117	ax (20MHz)	Pass
	6695	149	ax (20MHz)	Pass
	6855	181	ax (20MHz)	Pass
	6565	123	ax (40MHz)	Pass
	6725	155	ax (40MHz)	Pass
	6845	179	ax (40MHz)	Pass
	6625	135	ax (80MHz)	Pass
	6705	151	ax (80MHz)	Pass
	6785	167	ax (80MHz)	Pass
	6665	143	ax (160MHz)	Pass

Table 7-30. In-Band Emission Antenna 5T

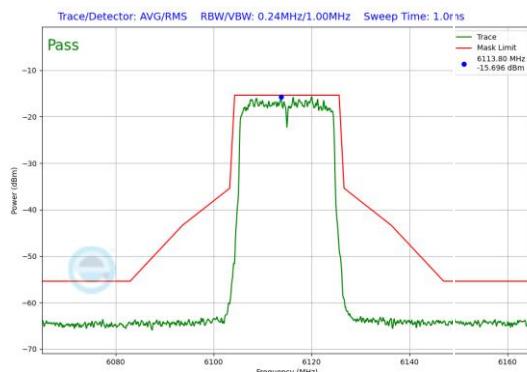
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 55 of 134



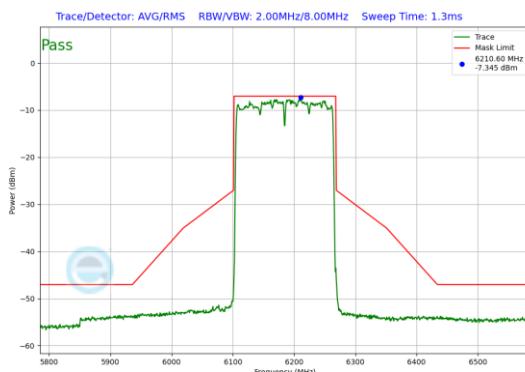
Plot 7-81. In-Band Emission Plot Antenna 5T (20MHz 802.11a (UNII Band 5) – Ch. 61)



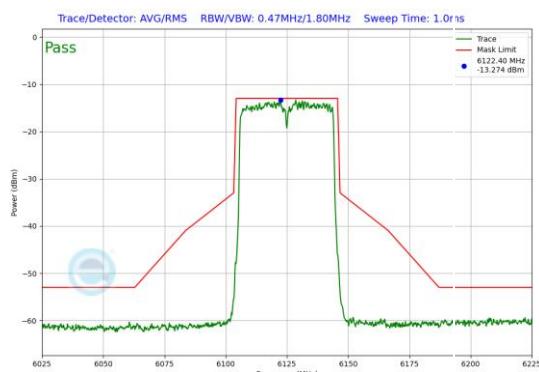
Plot 7-84. In-Band Emission Plot Antenna 5T (80MHz 802.11ax (UNII Band 5) – Ch. 87)



Plot 7-82. In-Band Emission Plot Antenna 5T (20MHz 802.11ax (UNII Band 5) – Ch. 33)



Plot 7-85. In-Band Emission Plot Antenna 5T (160MHz 802.11ax (UNII Band 5) – Ch. 47)

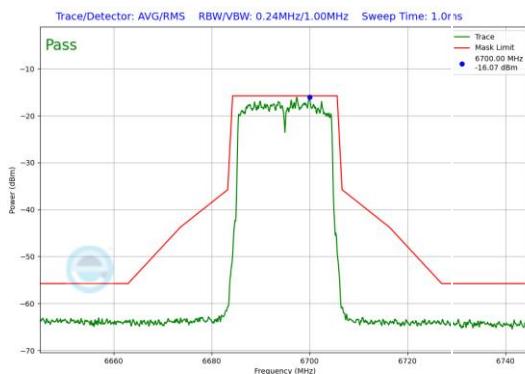


Plot 7-83. In-Band Emission Plot Antenna 5T (40MHz 802.11ax (UNII Band 5) – Ch. 35)

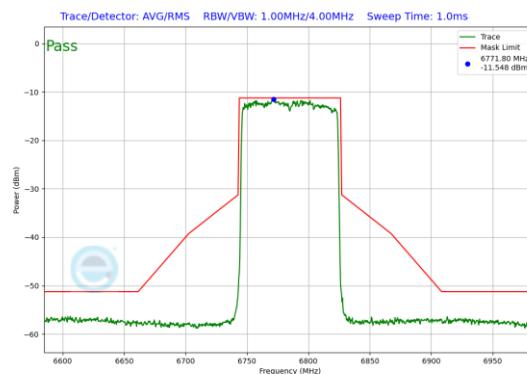


Plot 7-86. In-Band Emission Plot Antenna 5T (20MHz 802.11a (UNII Band 7) – Ch. 181)

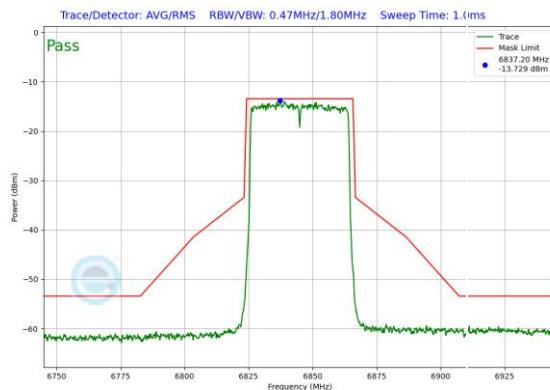
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 56 of 134



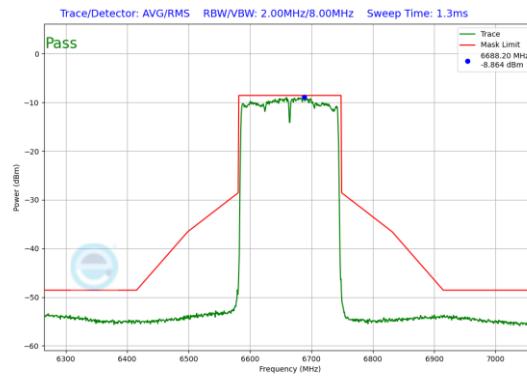
Plot 7-87. In-Band Emission Plot Antenna 5T (20MHz 802.11ax (UNII Band 7) – Ch. 181)



Plot 7-89. In-Band Emission Plot Antenna 5T (80MHz 802.11ax (UNII Band 7) – Ch. 167)



Plot 7-88. In-Band Emission Plot Antenna 5T (40MHz 802.11ax (UNII Band 7) – Ch. 179)



Plot 7-90. In-Band Emission Plot Antenna 5T (160MHz 802.11ax (UNII Band 7) – Ch. 143)

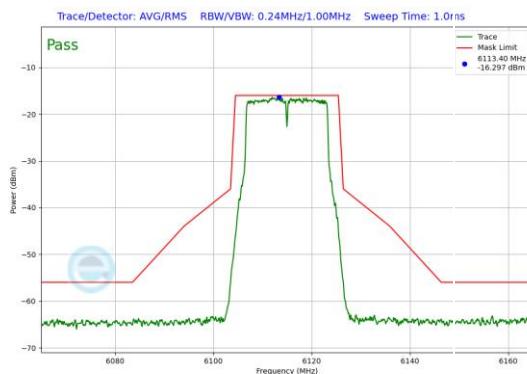
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 57 of 134

7.5.2 Antenna 3b In-Band Emission Measurements – VLP

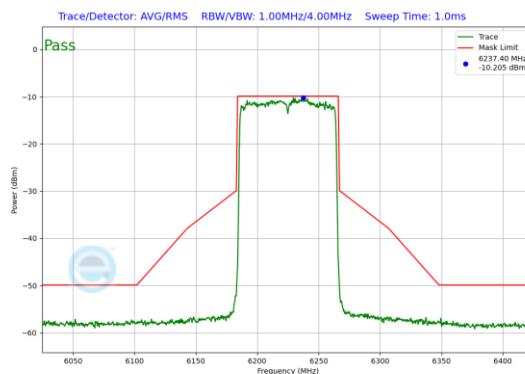
	Frequency [MHz]	Channel No.	802.11 Mode	Antenna 3b In- Band Emission
Band 5	6115	33	a	Pass
	6255	61	a	Pass
	6415	93	a	Pass
	6115	33	ax (20MHz)	Pass
	6255	61	ax (20MHz)	Pass
	6415	93	ax (20MHz)	Pass
	6125	35	ax (40MHz)	Pass
	6245	59	ax (40MHz)	Pass
	6405	91	ax (40MHz)	Pass
	6145	39	ax (80MHz)	Pass
	6225	55	ax (80MHz)	Pass
	6385	87	ax (80MHz)	Pass
	6185	47	ax (160MHz)	Pass
	6345	79	ax (160MHz)	Pass
Band 7	6535	117	a	Pass
	6695	149	a	Pass
	6855	181	a	Pass
	6535	117	ax (20MHz)	Pass
	6695	149	ax (20MHz)	Pass
	6855	181	ax (20MHz)	Pass
	6565	123	ax (40MHz)	Pass
	6725	155	ax (40MHz)	Pass
	6845	179	ax (40MHz)	Pass
	6625	135	ax (80MHz)	Pass
	6705	151	ax (80MHz)	Pass
	6785	167	ax (80MHz)	Pass
	6665	143	ax (160MHz)	Pass

Table 7-31. In-Band Emission Antenna 3b

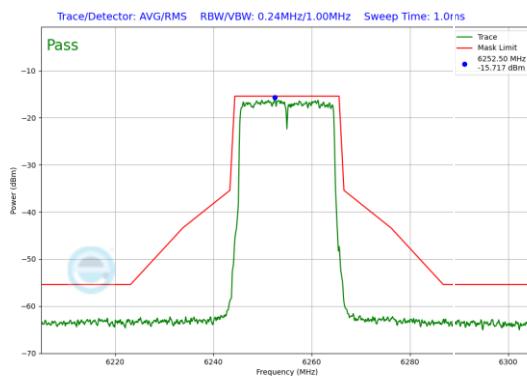
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 58 of 134



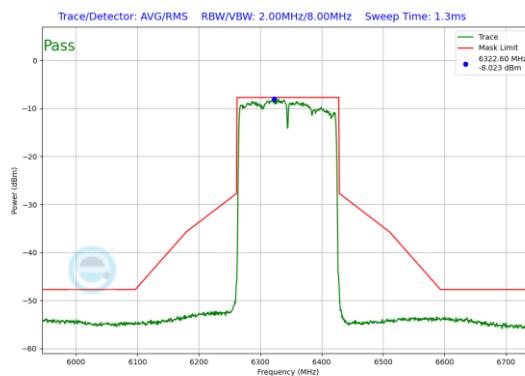
Plot 7-91. In-Band Emission Plot Antenna 3b (20MHz 802.11a (UNII Band 5) – Ch. 33)



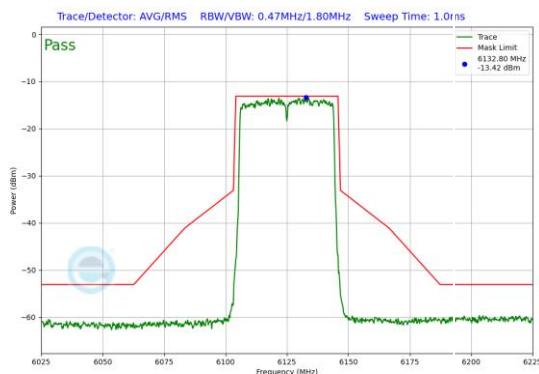
Plot 7-94. In-Band Emission Plot Antenna 3b (80MHz 802.11ax (UNII Band 5) – Ch. 87)



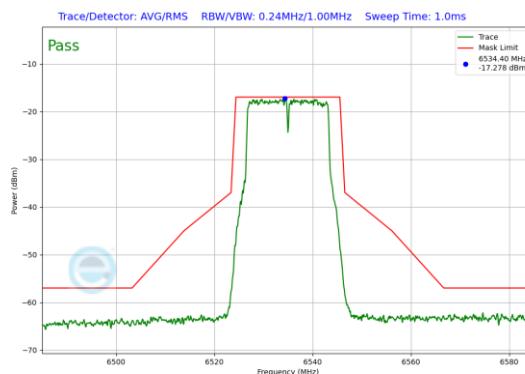
Plot 7-92. In-Band Emission Plot Antenna 3b (20MHz 802.11ax (UNII Band 5) – Ch. 61)



Plot 7-95. In-Band Emission Plot Antenna 3b (160MHz 802.11ax (UNII Band 5) – Ch. 79)

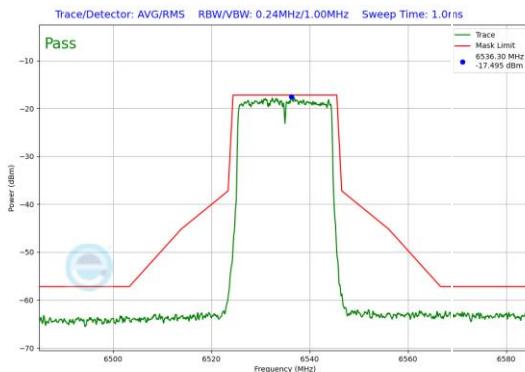


Plot 7-93. In-Band Emission Plot Antenna 3b (40MHz 802.11ax (UNII Band 5) – Ch. 35)

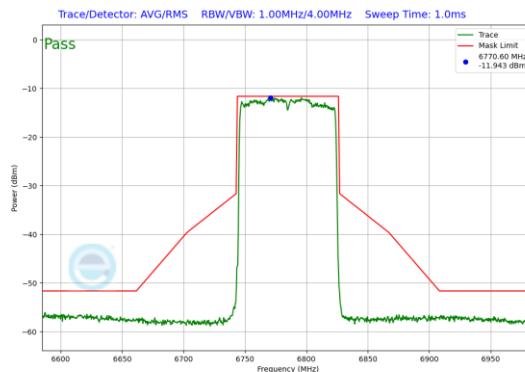


Plot 7-96. In-Band Emission Plot Antenna 3b (20MHz 802.11a (UNII Band 7) – Ch. 117)

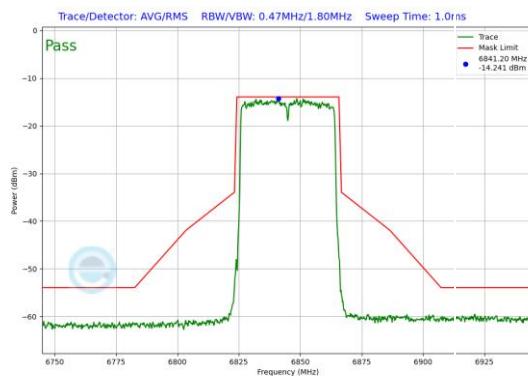
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 59 of 134



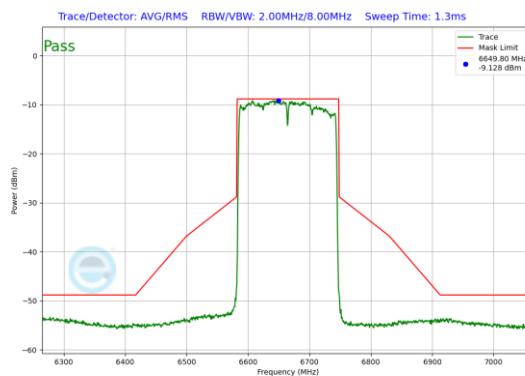
Plot 7-97. In-Band Emission Plot Antenna 3b (20MHz 802.11ax (UNII Band 7) – Ch. 117)



Plot 7-99. In-Band Emission Plot Antenna 3b (80MHz 802.11ax (UNII Band 7) – Ch. 167)



Plot 7-98. In-Band Emission Plot Antenna 3b (40MHz 802.11ax (UNII Band 7) – Ch. 179)



Plot 7-100. In-Band Emission Plot Antenna 3b (160MHz 802.11ax (UNII Band 7) – Ch. 143)

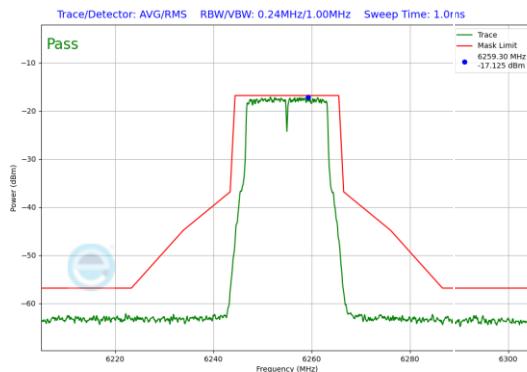
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 60 of 134

7.5.3 Antenna 1b In-Band Emission Measurements – VLP

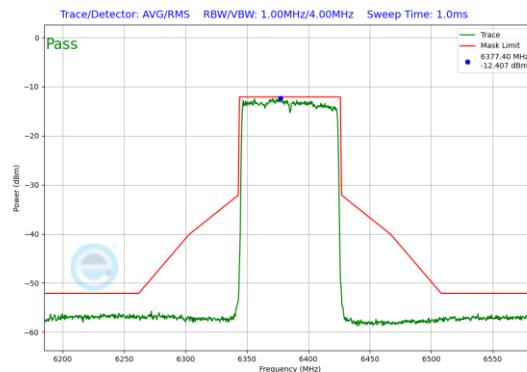
	Frequency [MHz]	Channel No.	802.11 Mode	Antenna 1b In- Band Emission
Band 5	6115	33	a	Pass
	6255	61	a	Pass
	6415	93	a	Pass
	6115	33	ax (20MHz)	Pass
	6255	61	ax (20MHz)	Pass
	6415	93	ax (20MHz)	Pass
	6125	35	ax (40MHz)	Pass
	6245	59	ax (40MHz)	Pass
	6405	91	ax (40MHz)	Pass
	6145	39	ax (80MHz)	Pass
	6225	55	ax (80MHz)	Pass
	6385	87	ax (80MHz)	Pass
	6185	47	ax (160MHz)	Pass
	6345	79	ax (160MHz)	Pass
Band 7	6535	117	a	Pass
	6695	149	a	Pass
	6855	181	a	Pass
	6535	117	ax (20MHz)	Pass
	6695	149	ax (20MHz)	Pass
	6855	181	ax (20MHz)	Pass
	6565	123	ax (40MHz)	Pass
	6725	155	ax (40MHz)	Pass
	6845	179	ax (40MHz)	Pass
	6625	135	ax (80MHz)	Pass
	6705	151	ax (80MHz)	Pass
	6785	167	ax (80MHz)	Pass
	6665	143	ax (160MHz)	Pass

Table 7-32. In-Band Emission Antenna 1b

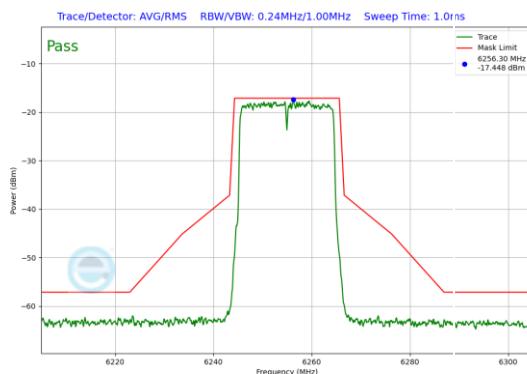
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 61 of 134



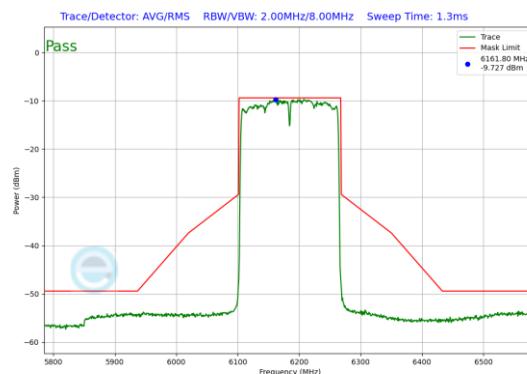
Plot 7-101. In-Band Emission Plot Antenna 1b (20MHz 802.11a (UNII Band 5) – Ch. 61)



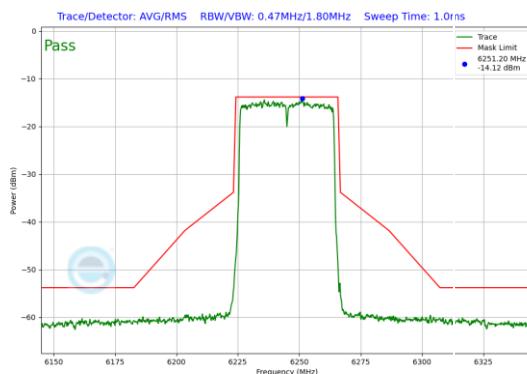
Plot 7-104. In-Band Emission Plot Antenna 1b (80MHz 802.11ax (UNII Band 5) – Ch. 87)



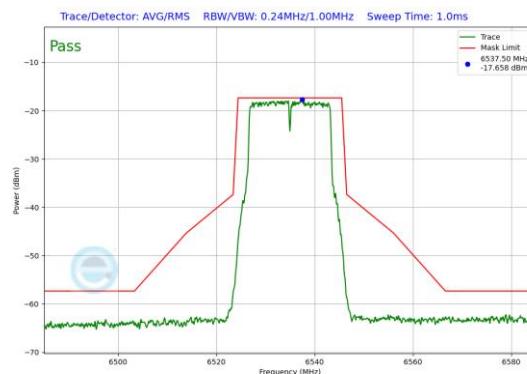
Plot 7-102. In-Band Emission Plot Antenna 1b (20MHz 802.11ax (UNII Band 5) – Ch. 61)



Plot 7-105. In-Band Emission Plot Antenna 1b (160MHz 802.11ax (UNII Band 5) – Ch. 47)

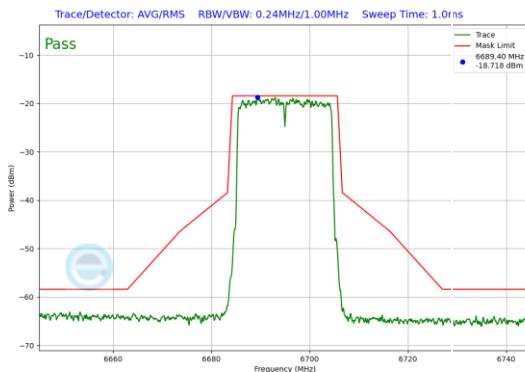


Plot 7-103. In-Band Emission Plot Antenna 1b (40MHz 802.11ax (UNII Band 5) – Ch. 59)

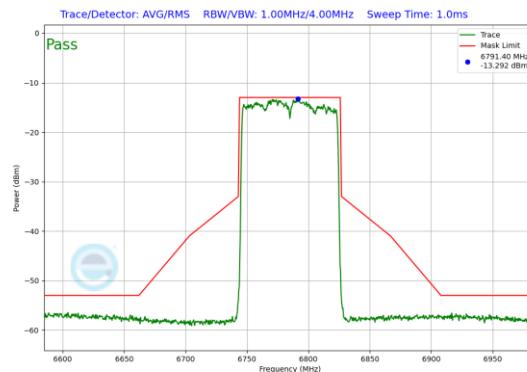


Plot 7-106. In-Band Emission Plot Antenna 1b (20MHz 802.11a (UNII Band 7) – Ch. 117)

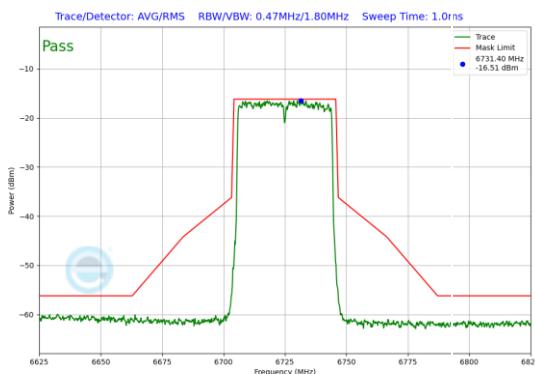
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 62 of 134



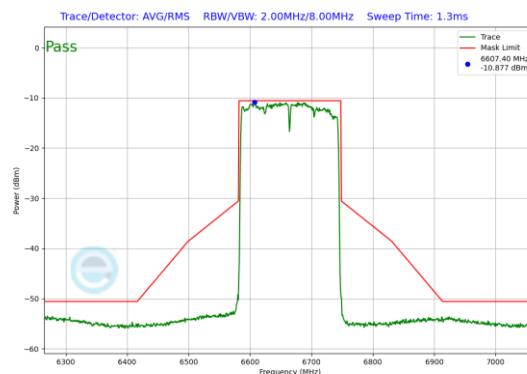
Plot 7-107. In-Band Emission Plot Antenna 1b (20MHz 802.11ax (UNII Band 7) – Ch. 149)



Plot 7-109. In-Band Emission Plot Antenna 1b (80MHz 802.11ax (UNII Band 7) – Ch. 167)



Plot 7-108. In-Band Emission Plot Antenna 1b (40MHz 802.11ax (UNII Band 7) – Ch. 155)



Plot 7-110. In-Band Emission Plot Antenna 1b (160MHz 802.11ax (UNII Band 7) – Ch. 143)

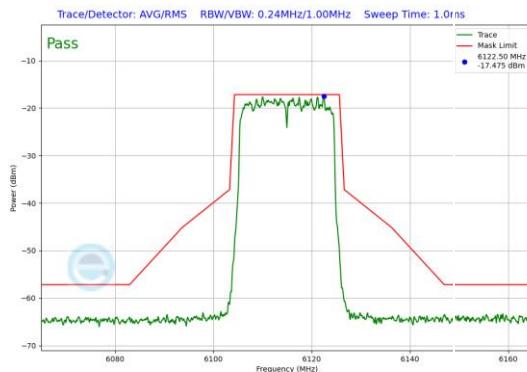
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 63 of 134

7.5.4 SDM Primary In-Band Emission Measurements – VLP

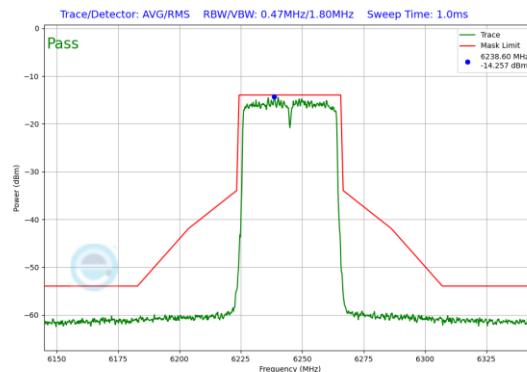
	Frequency [MHz]	Channel No.	802.11 Mode	Antenna 5T In-Band Emission	Antenna 3b In-Band Emission
Band 5	6115	33	ax (20MHz)	Pass	Pass
	6255	61	ax (20MHz)	Pass	Pass
	6415	93	ax (20MHz)	Pass	Pass
	6125	35	ax (40MHz)	Pass	Pass
	6245	59	ax (40MHz)	Pass	Pass
	6405	91	ax (40MHz)	Pass	Pass
	6145	39	ax (80MHz)	Pass	Pass
	6225	55	ax (80MHz)	Pass	Pass
	6385	87	ax (80MHz)	Pass	Pass
	6185	47	ax (160MHz)	Pass	Pass
Band 7	6345	79	ax (160MHz)	Pass	Pass
	6535	117	ax (20MHz)	Pass	Pass
	6695	149	ax (20MHz)	Pass	Pass
	6855	181	ax (20MHz)	Pass	Pass
	6565	123	ax (40MHz)	Pass	Pass
	6725	155	ax (40MHz)	Pass	Pass
	6845	179	ax (40MHz)	Pass	Pass
	6625	135	ax (80MHz)	Pass	Pass
	6705	151	ax (80MHz)	Pass	Pass
	6785	167	ax (80MHz)	Pass	Pass
	6665	143	ax (160MHz)	Pass	Pass

Table 7-33. In-Band Emission SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 64 of 134	



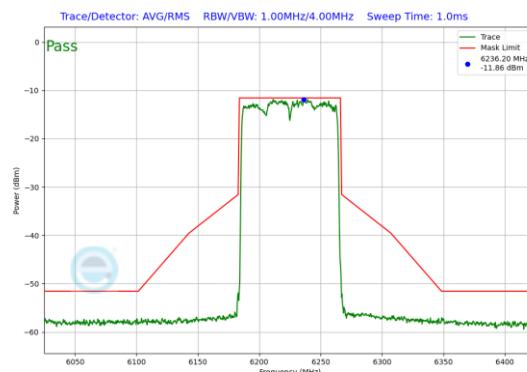
**Plot 7-111. In-Band Emission Plot SDM Primary Antenna 5T
(20MHz 802.11ax (UNII Band 5) – Ch. 33)**



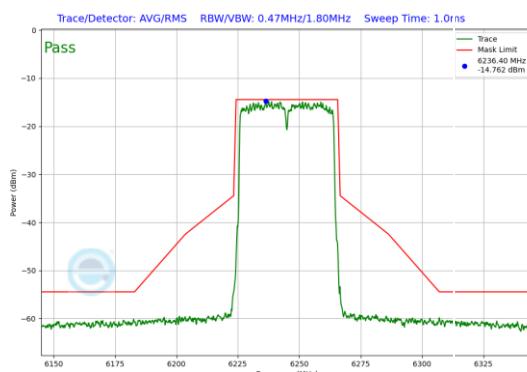
**Plot 7-114. In-Band Emission Plot SDM Primary Antenna 3b
(40MHz 802.11ax (UNII Band 5) – Ch. 59)**



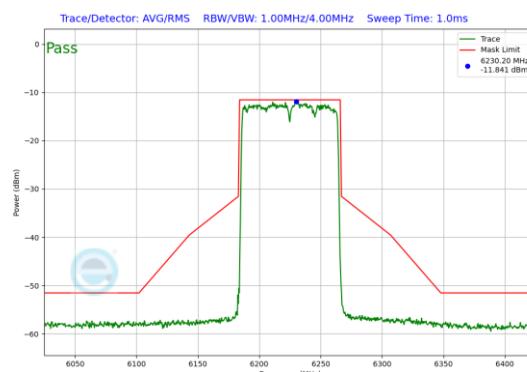
**Plot 7-112. In-Band Emission Plot SDM Primary Antenna 3b
(20MHz 802.11ax (UNII Band 5) – Ch. 33)**



**Plot 7-115. In-Band Emission Plot SDM Primary Antenna 5T
(80MHz 802.11ax (UNII Band 5) – Ch. 55)**

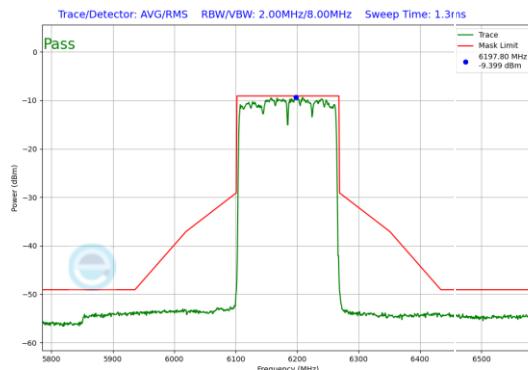


**Plot 7-113. In-Band Emission Plot SDM Primary Antenna 5T
(40MHz 802.11ax (UNII Band 5) – Ch. 59)**

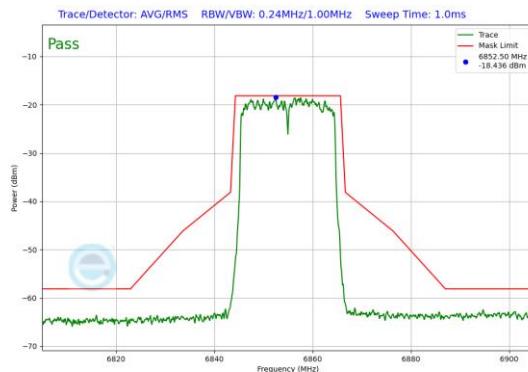


**Plot 7-116. In-Band Emission Plot SDM Primary Antenna 3b
(80MHz 802.11ax (UNII Band 5) – Ch. 55)**

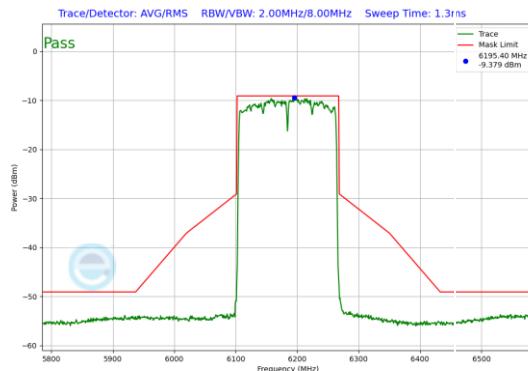
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 65 of 134



**Plot 7-117. In-Band Emission Plot SDM Primary Antenna 5T
(160MHz 802.11ax (UNII Band 5) – Ch. 47)**



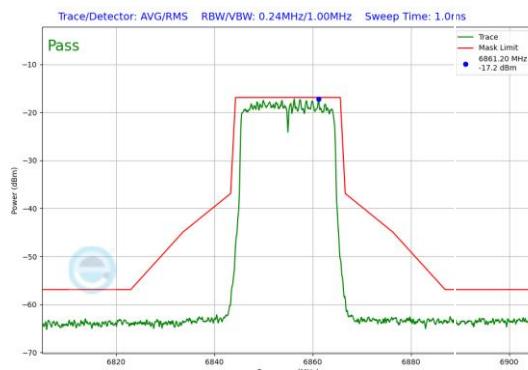
**Plot 7-120. In-Band Emission Plot SDM Primary Antenna 3b
(20MHz 802.11ax (UNII Band 7) – Ch. 181)**



**Plot 7-118. In-Band Emission Plot SDM Primary Antenna 3b
(160MHz 802.11ax (UNII Band 5) – Ch. 47)**



**Plot 7-121. In-Band Emission Plot SDM Primary Antenna 5T
(40MHz 802.11ax (UNII Band 7) – Ch. 179)**

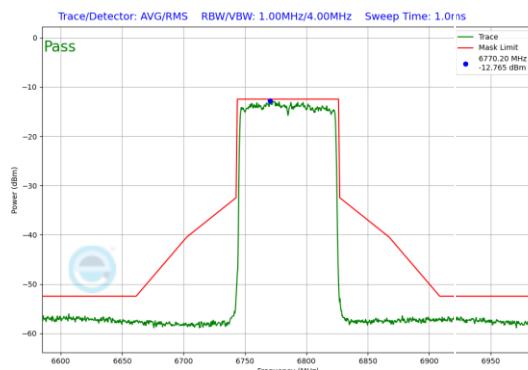


**Plot 7-119. In-Band Emission Plot SDM Primary Antenna 5T
(20MHz 802.11ax (UNII Band 7) – Ch. 181)**

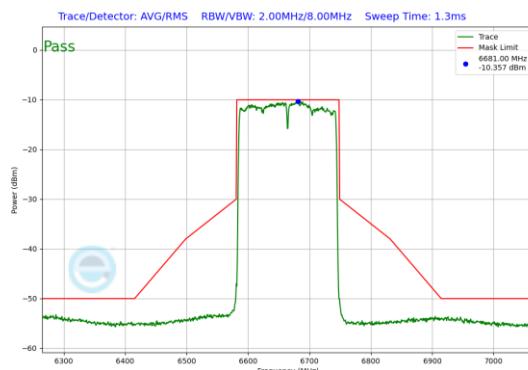


**Plot 7-122. In-Band Emission Plot SDM Primary Antenna 3b
(40MHz 802.11ax (UNII Band 7) – Ch. 179)**

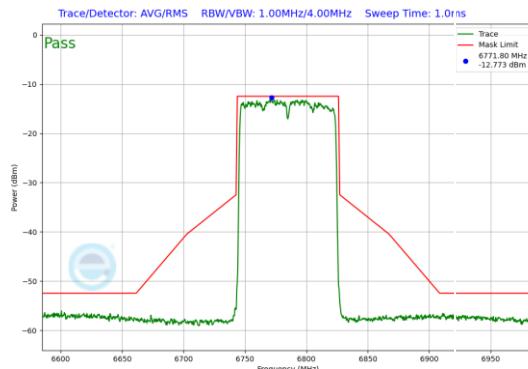
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 66 of 134



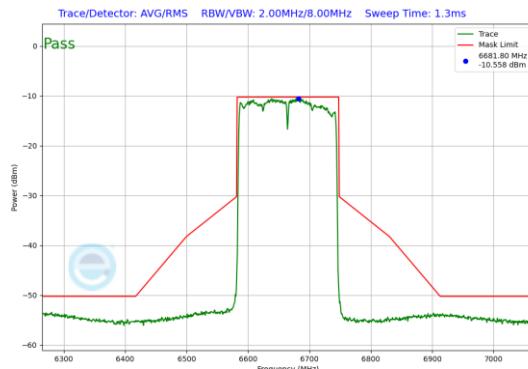
**Plot 7-123. In-Band Emission Plot SDM Primary Antenna 5T
(80MHz 802.11ax (UNII Band 7) – Ch. 167)**



**Plot 7-125. In-Band Emission Plot SDM Primary Antenna 5T
(160MHz 802.11ax (UNII Band 7) – Ch. 143)**



**Plot 7-124. In-Band Emission Plot SDM Primary Antenna 3b
(80MHz 802.11ax (UNII Band 7) – Ch. 167)**



**Plot 7-126. In-Band Emission Plot SDM Primary Antenna 3b
(160MHz 802.11ax (UNII Band 7) – Ch. 143)**

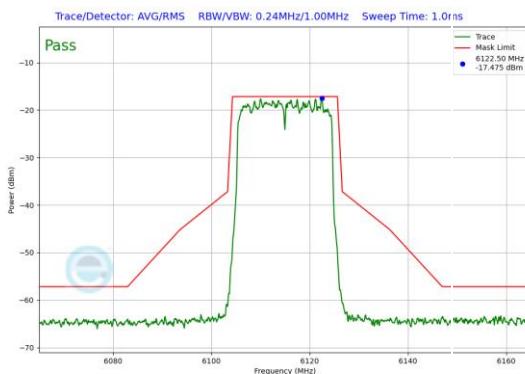
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 67 of 134

7.5.5 SDM Diversity In-Band Emission Measurements – VLP

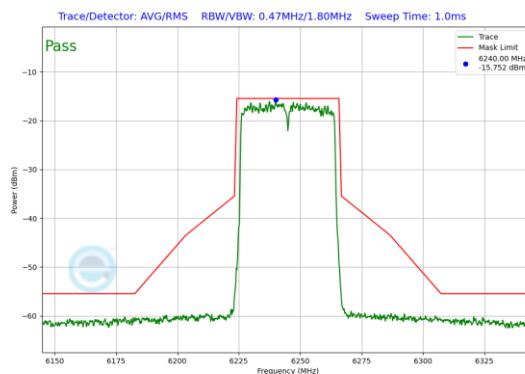
	Frequency [MHz]	Channel No.	802.11 Mode	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 5	6115	33	ax (20MHz)	Pass	Pass
	6255	61	ax (20MHz)	Pass	Pass
	6415	93	ax (20MHz)	Pass	Pass
	6125	35	ax (40MHz)	Pass	Pass
	6245	59	ax (40MHz)	Pass	Pass
	6405	91	ax (40MHz)	Pass	Pass
	6145	39	ax (80MHz)	Pass	Pass
	6225	55	ax (80MHz)	Pass	Pass
	6385	87	ax (80MHz)	Pass	Pass
	6185	47	ax (160MHz)	Pass	Pass
Band 7	6345	79	ax (160MHz)	Pass	Pass
	6535	117	ax (20MHz)	Pass	Pass
	6695	149	ax (20MHz)	Pass	Pass
	6855	181	ax (20MHz)	Pass	Pass
	6565	123	ax (40MHz)	Pass	Pass
	6725	155	ax (40MHz)	Pass	Pass
	6845	179	ax (40MHz)	Pass	Pass
	6625	135	ax (80MHz)	Pass	Pass
	6705	151	ax (80MHz)	Pass	Pass
	6785	167	ax (80MHz)	Pass	Pass
	6665	143	ax (160MHz)	Pass	Pass

Table 7-34. In-Band Emission SDM Diversity

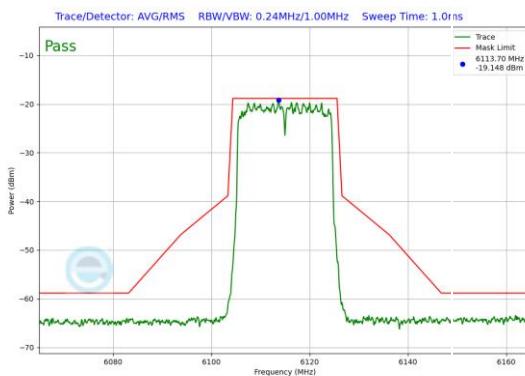
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 68 of 134



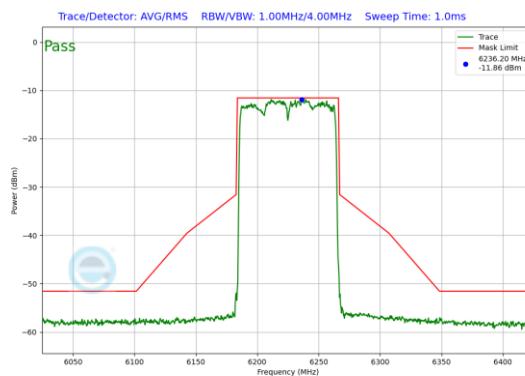
Plot 7-127. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax (UNII Band 5) – Ch. 33)



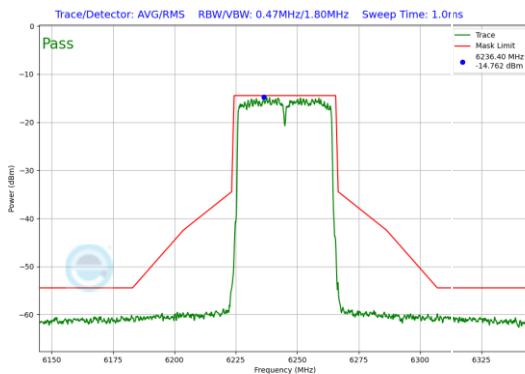
Plot 7-130. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax (UNII Band 5) – Ch. 59)



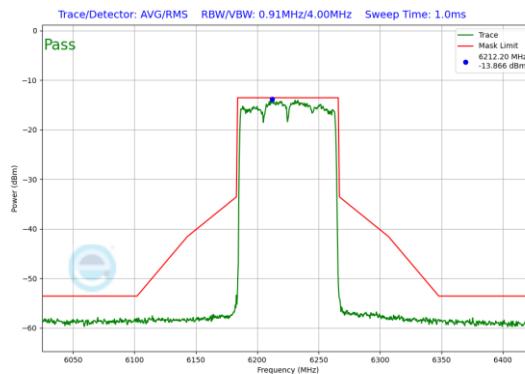
Plot 7-128. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax (UNII Band 5) – Ch. 33)



Plot 7-131. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax (UNII Band 5) – Ch. 39)

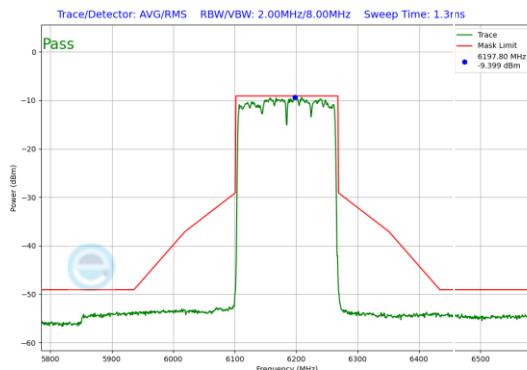


Plot 7-129. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax (UNII Band 5) – Ch. 59)

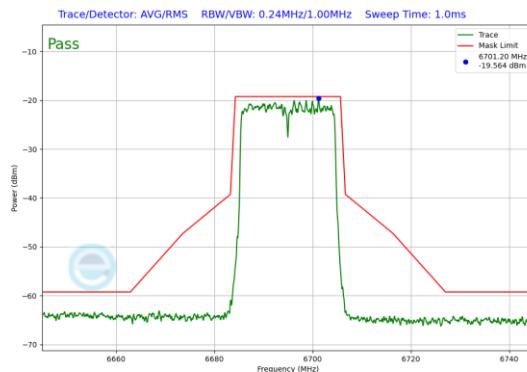


Plot 7-132. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax (UNII Band 5) – Ch. 39)

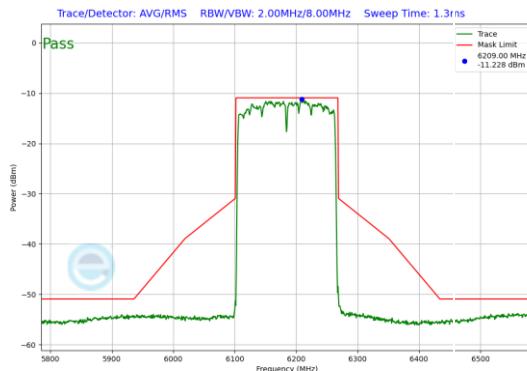
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 69 of 134



Plot 7-133. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax (UNII Band 5) – Ch. 47)



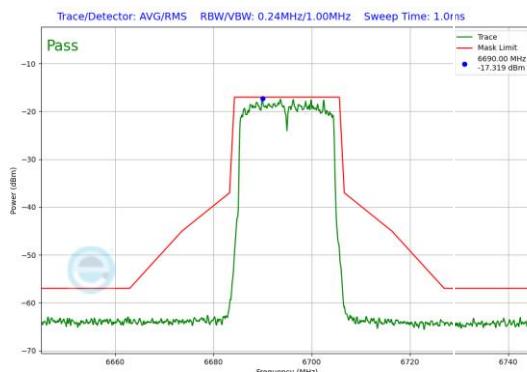
Plot 7-136. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax (UNII Band 7) – Ch. 149)



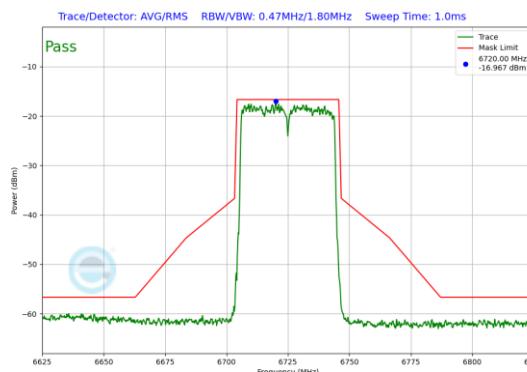
Plot 7-134. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax (UNII Band 5) – Ch. 47)



Plot 7-137. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax (UNII Band 7) – Ch. 155)

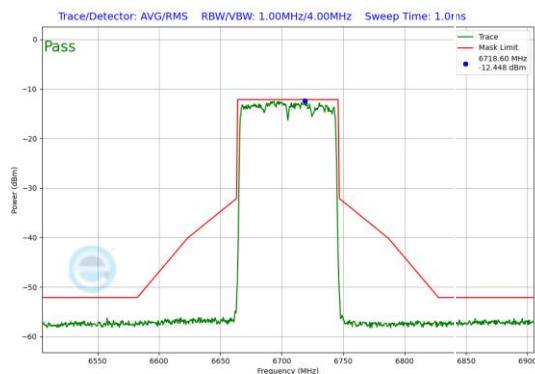


Plot 7-135. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax (UNII Band 7) – Ch. 149)



Plot 7-138. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax (UNII Band 7) – Ch. 155)

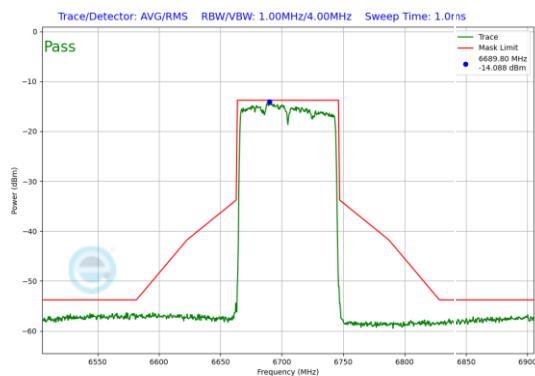
FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 70 of 134



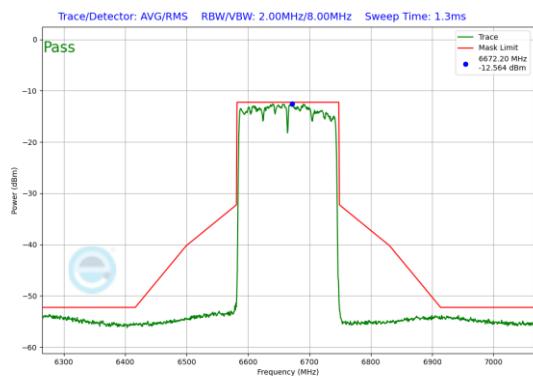
Plot 7-139. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax (UNII Band 7) – Ch. 167)



Plot 7-141. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax (UNII Band 7) – Ch. 143)



Plot 7-140. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax (UNII Band 7) – Ch. 167)



Plot 7-142. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax (UNII Band 7) – Ch. 143)

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 71 of 134

7.6 Contention Based Protocol

§15.407(d)(6); RSS-248[4.7]

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices), while very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power and very low power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor and very low power devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v03 – Section I

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

FCC ID: BCGA3269 IC: 579C-A3269	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device		Page 72 of 134

Test Setup

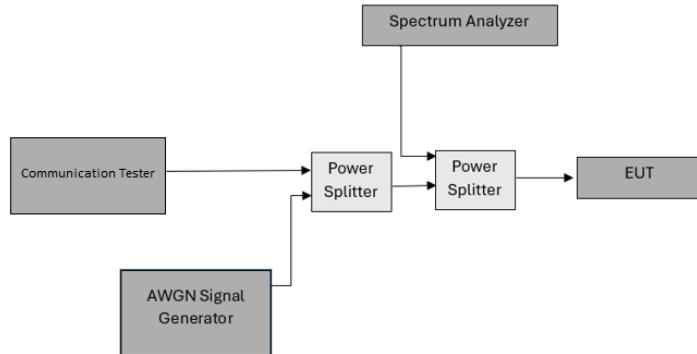


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. The EUT does not support channel puncturing.
2. Per guidance from KDB 987594 D02 v03, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
3. Per KDB 987594 D04 v03, contention-based protocol was tested with receiver with the lowest antenna gain.
4. 15 trials were ran in order to assure that at least 90% of certainty was met.

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Equation 7-1. Incumbent Detection Level Calculation

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 73 of 134

Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-73.61	-3.30	-70.31	-62.0	-8.31
	47	6185	160	6115	-71.05	-3.30	-67.75	-62.0	-5.75
				6185	-66.27	-3.30	-62.97	-62.0	-0.97
				6260	-69.11	-3.30	-65.81	-62.0	-3.81
UNII Band 7	149	6695	20	6695	-75.68	-3.30	-72.38	-62.0	-10.38
	143	6665	160	6590	-71.99	-3.30	-68.69	-62.0	-6.69
				6665	-80.01	-3.30	-76.71	-62.0	-14.71
				6740	-67.10	-3.30	-63.80	-62.0	-1.80

Table 7-35. Contention Based Protocol – Incumbent Detection Results

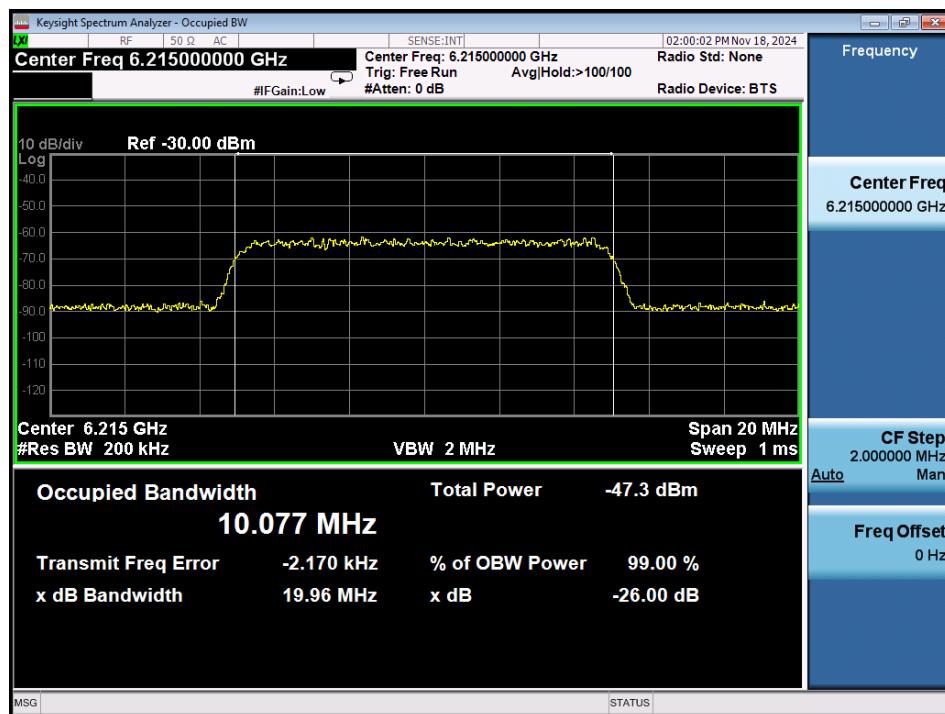
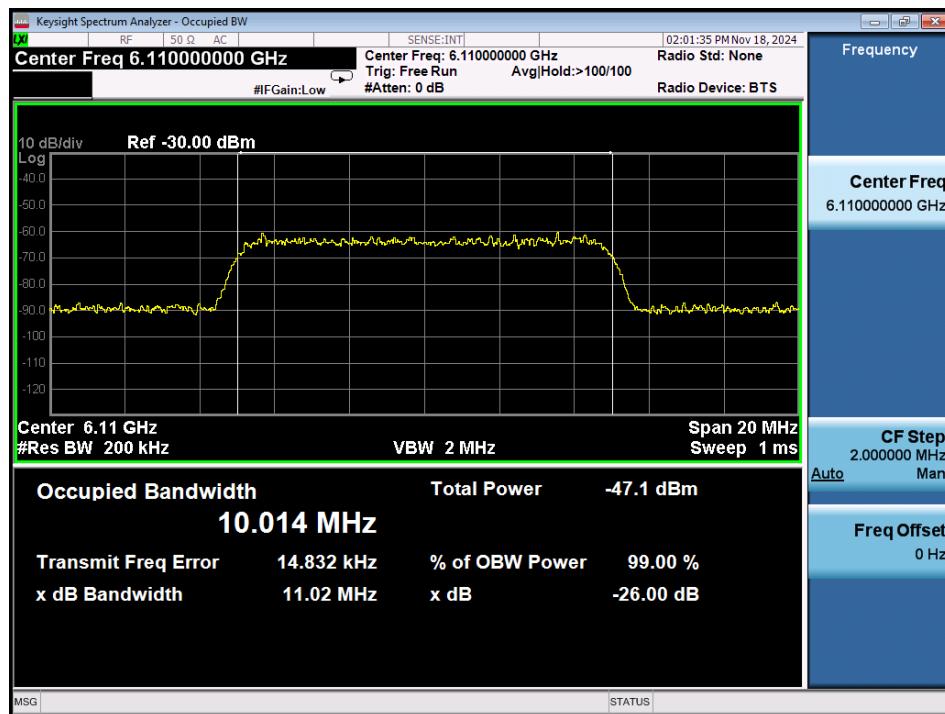
Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	EUT Transmission Status		
					Adjusted AWGN Power (dBm)		
					Normal	Minimal	Ceased
UNII Band 5	53	6215	20	6215	-81.49	-71.56	-70.31
	47	6185	160	6110	-78.93	-69.00	-67.75
				6185	-74.14	-64.22	-62.97
				6260	-76.99	-67.06	-65.81
UNII Band 7	149	6695	20	6695	-83.36	-73.60	-72.38
	143	6665	160	6750	-79.67	-69.91	-68.69
				6825	-87.69	-77.93	-76.71
				6900	-74.78	-65.02	-63.80

Table 7-36. Contention Based Protocol VLP – Detection Results – All Tx Cases

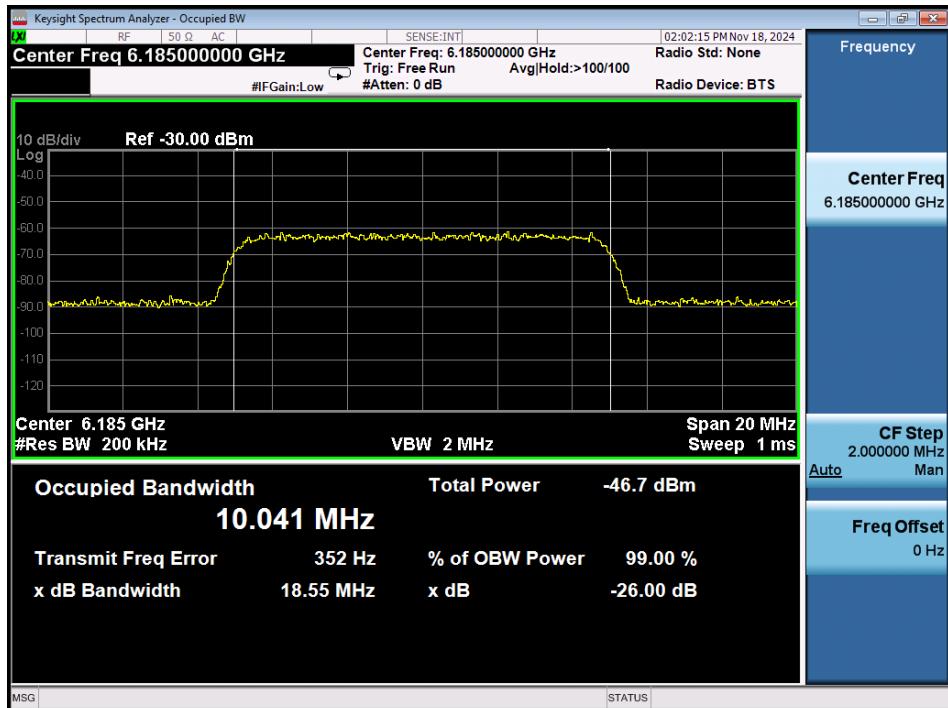
CBP Detection (1 = Detection, Blank = No Detection)																					
Band	Channel	Channel Frequency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
	143	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass	

Table 7-37. Contention Based Protocol – Incumbent Detection Trial Results

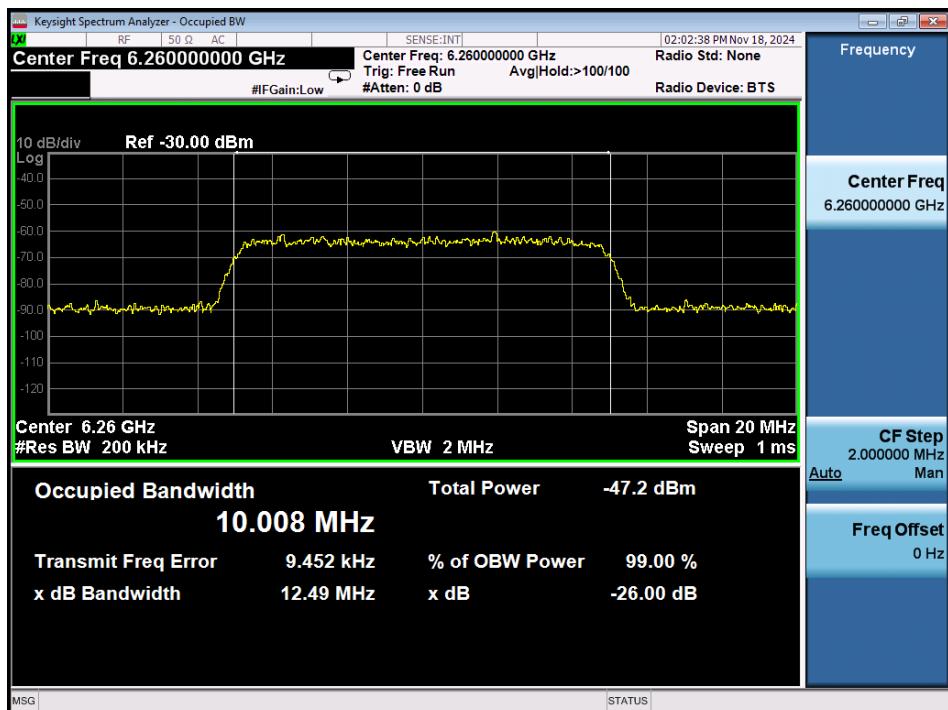
FCC ID: BCGA3269 IC: 579C-A3269				MEASUREMENT REPORT (CERTIFICATION)													Approved by: Technical Manager		
Test Report S/N: 1C2410210075-25.BCG				Test Dates: 10/25/2024 - 1/15/2025			EUT Type: Tablet Device										Page 74 of 134		

AWGN Plots

Plot 7-143. AWGN Signal – UNII 5 – 20MHz

Plot 7-144. AWGN Signal – UNII 5 – 160MHz - Low

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 75 of 134

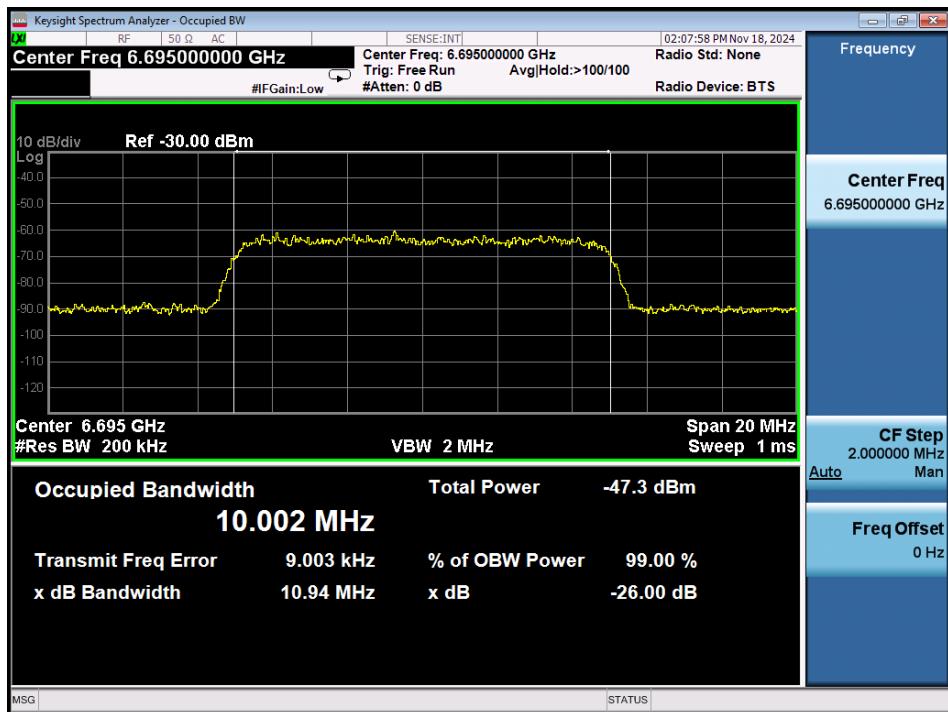


Plot 7-145. AWGN Signal – UNII 5 – 160MHz – Mid

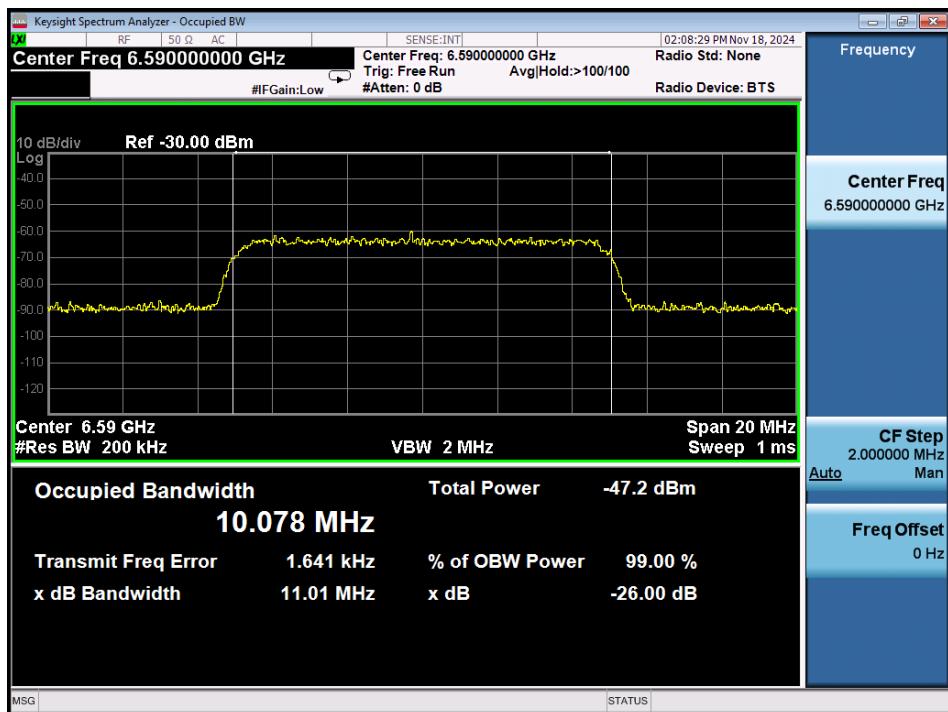


Plot 7-146. AWGN Signal – UNII 5 – 160MHz - High

FCC ID: BCGA3269	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
IC: 579C-A3269	Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 76 of 134

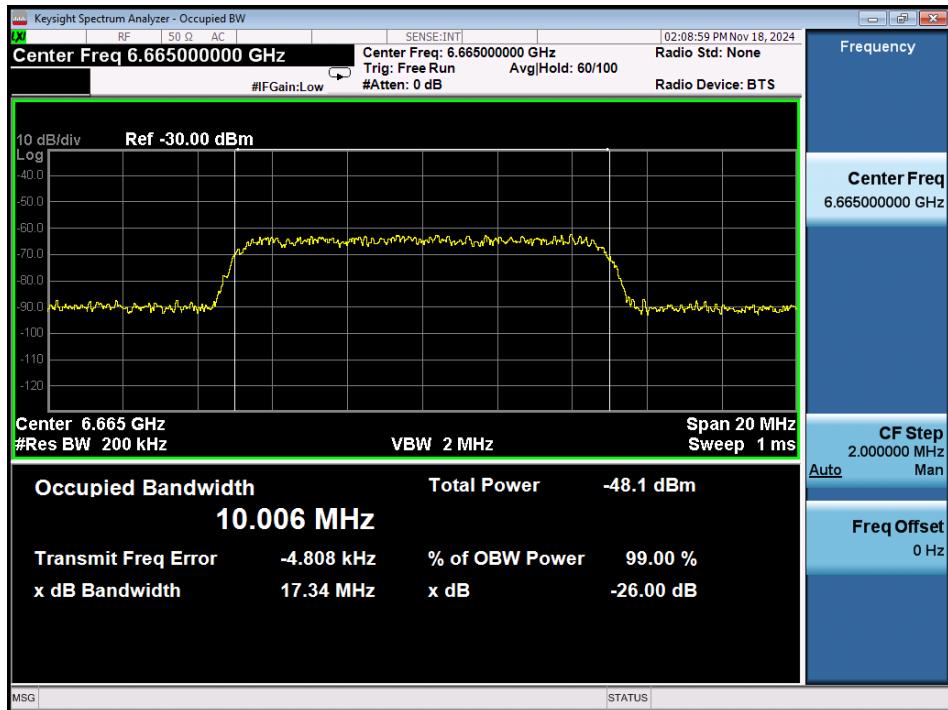


Plot 7-147. AWGN Signal – UNII 7 – 20MHz

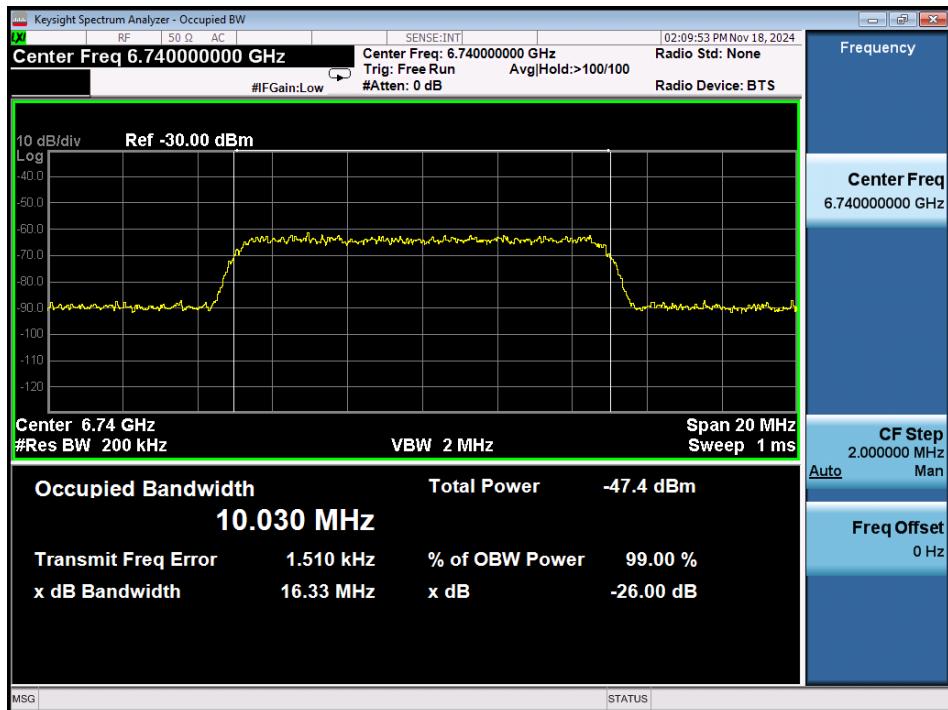


Plot 7-148. AWGN Signal – UNII 7 – 160MHz - Low

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 77 of 134



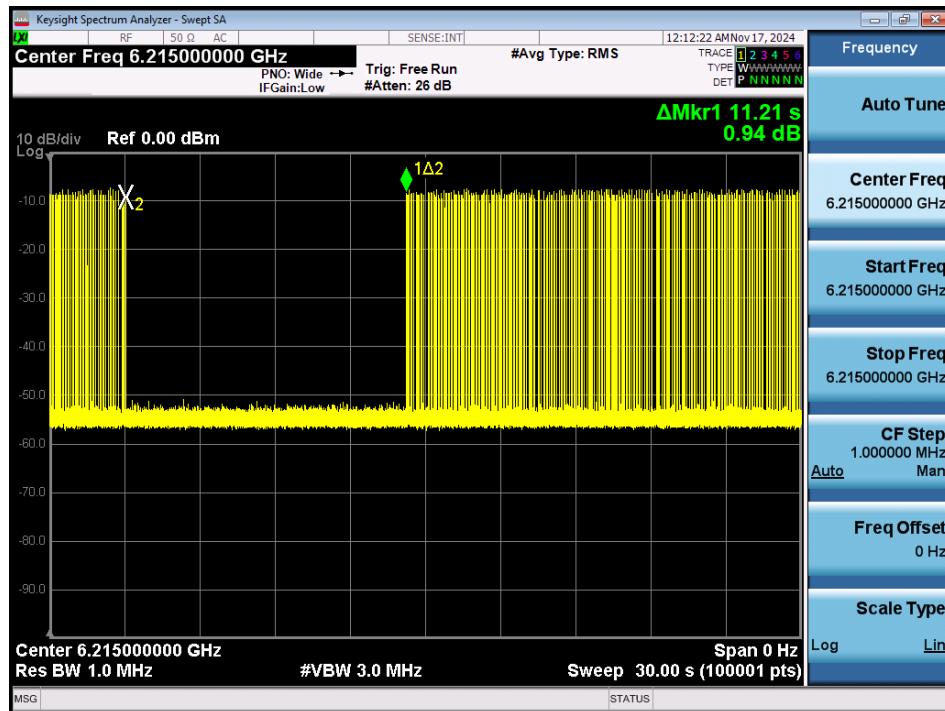
Plot 7-149. AWGN Signal – UNII 7 – 160MHz – Mid



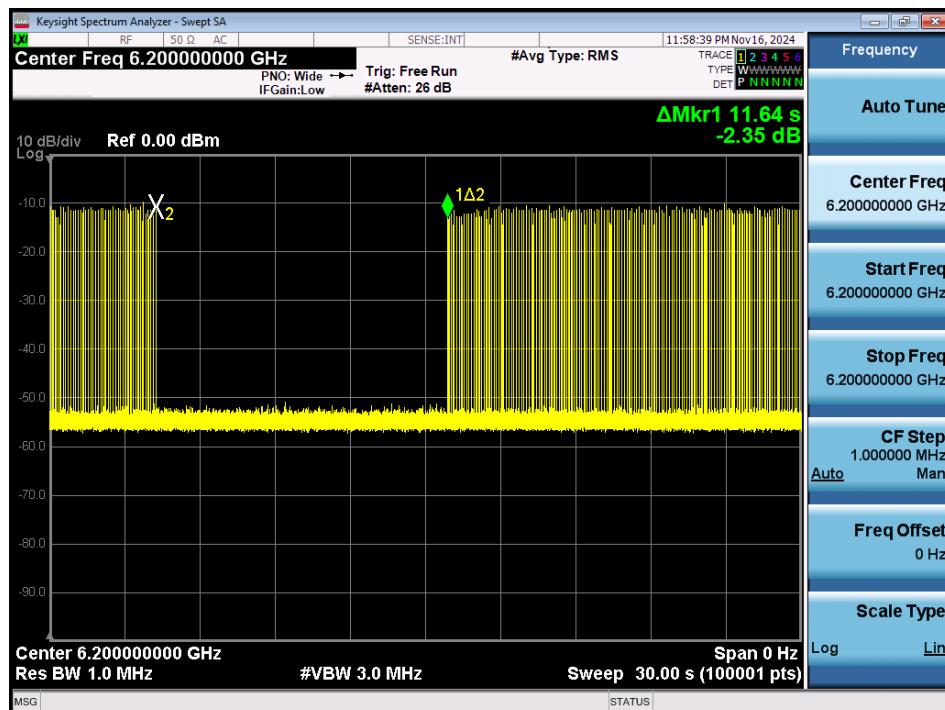
Plot 7-150. AWGN Signal – UNII 7 – 160MHz - High

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 78 of 134

Contention-Based Protocol Timing Plots

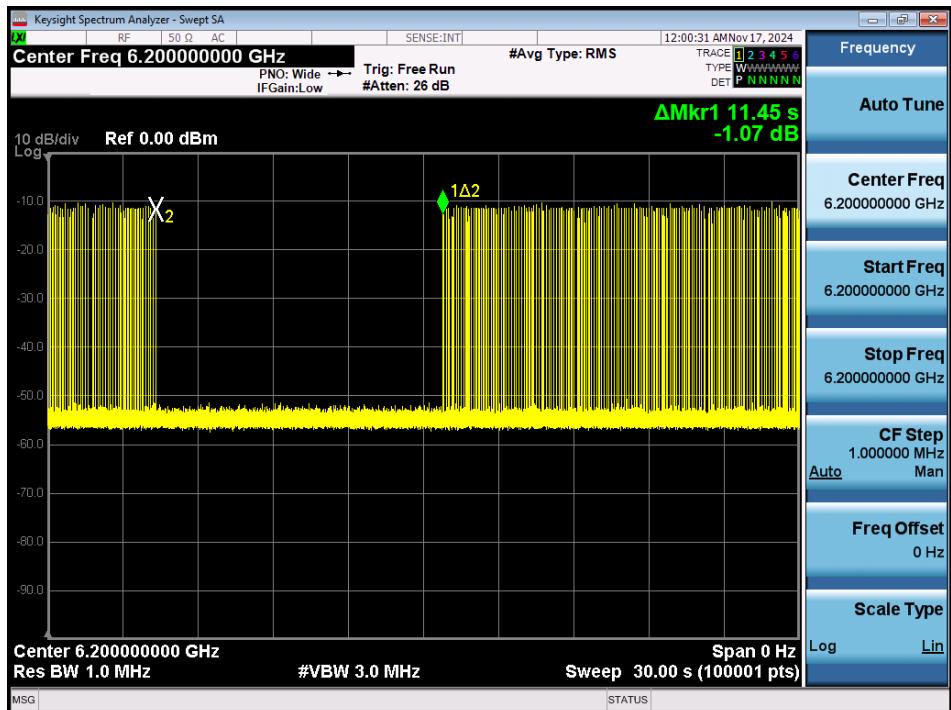


Plot 7-151. Contention Based Protocol Timing Plot – UNII 5 – 20MHz Channel 53

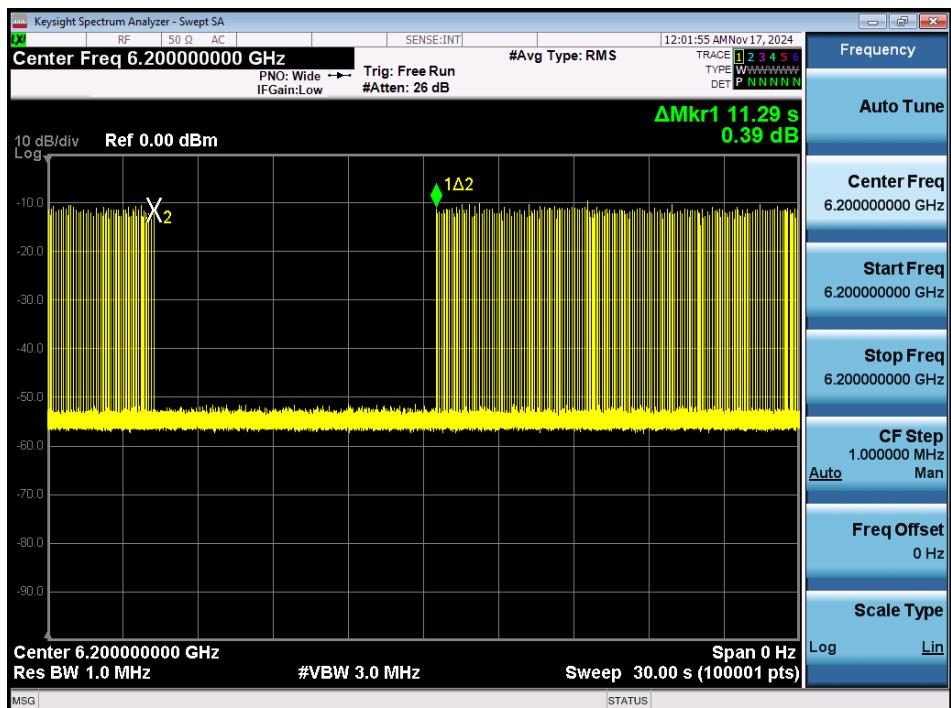


Plot 7-152. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – Low

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 79 of 134

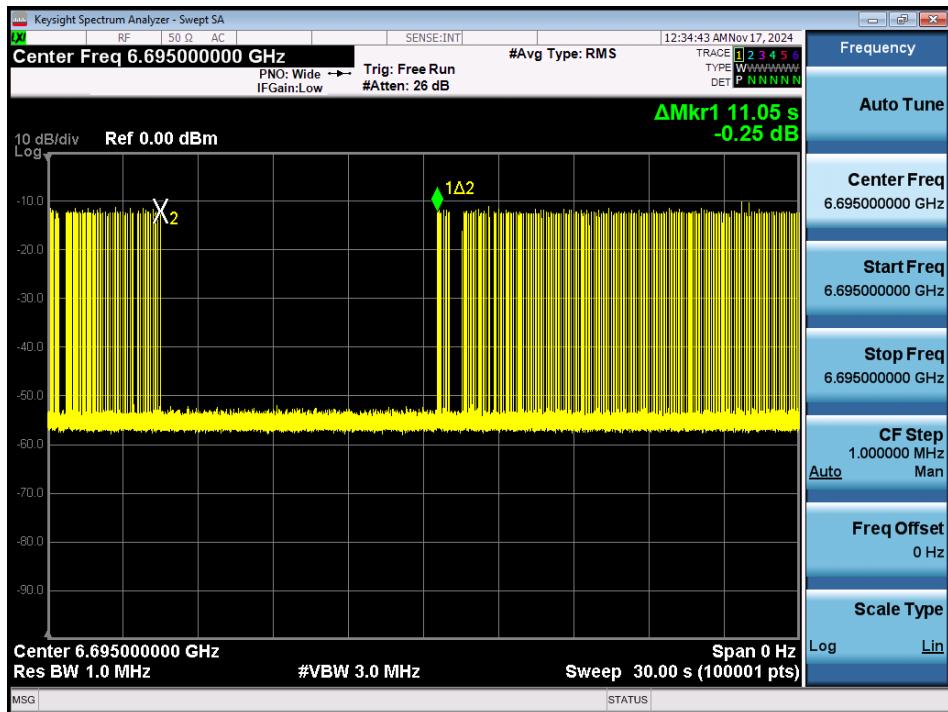


Plot 7-153. Contention Based Protocol Timing Plot –UNII 5 – 160MHz Channel 47 – Mid

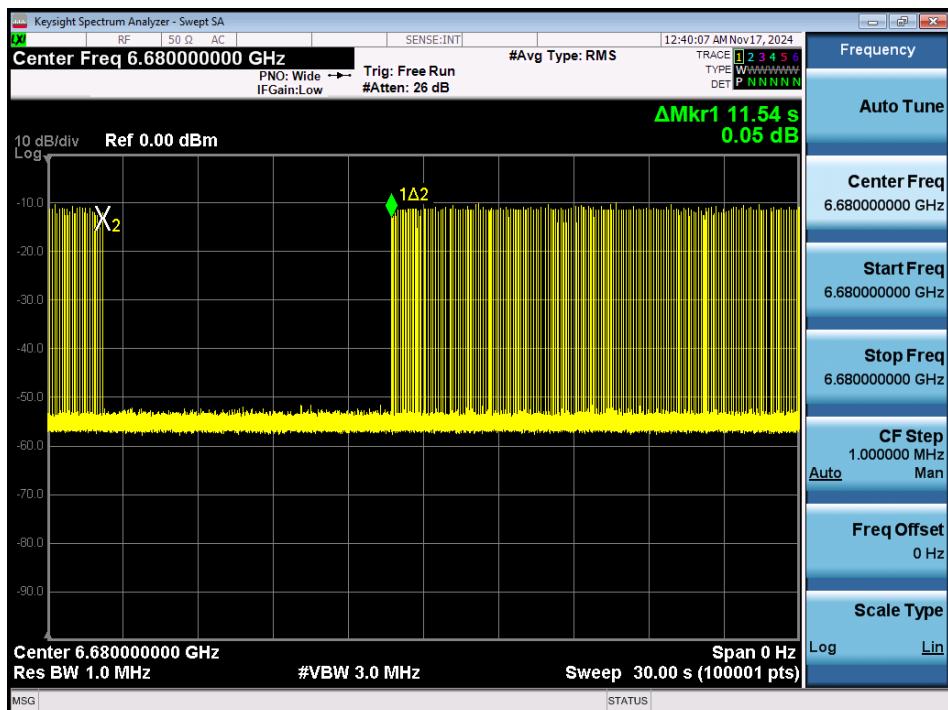


Plot 7-154. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Channel 47 – High

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 80 of 134

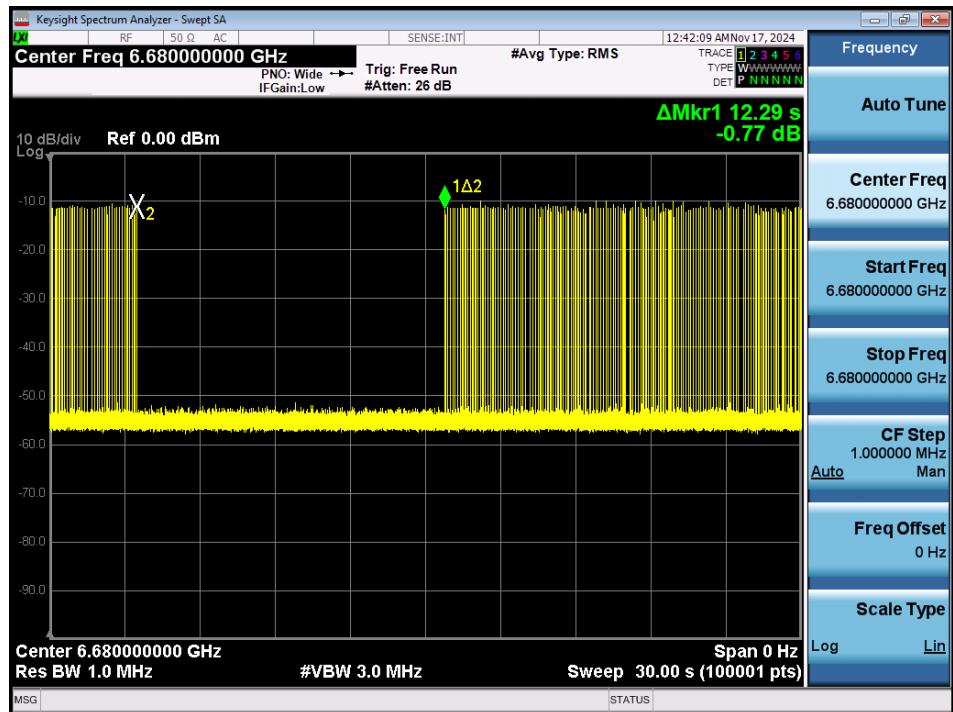


Plot 7-155. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Channel 149

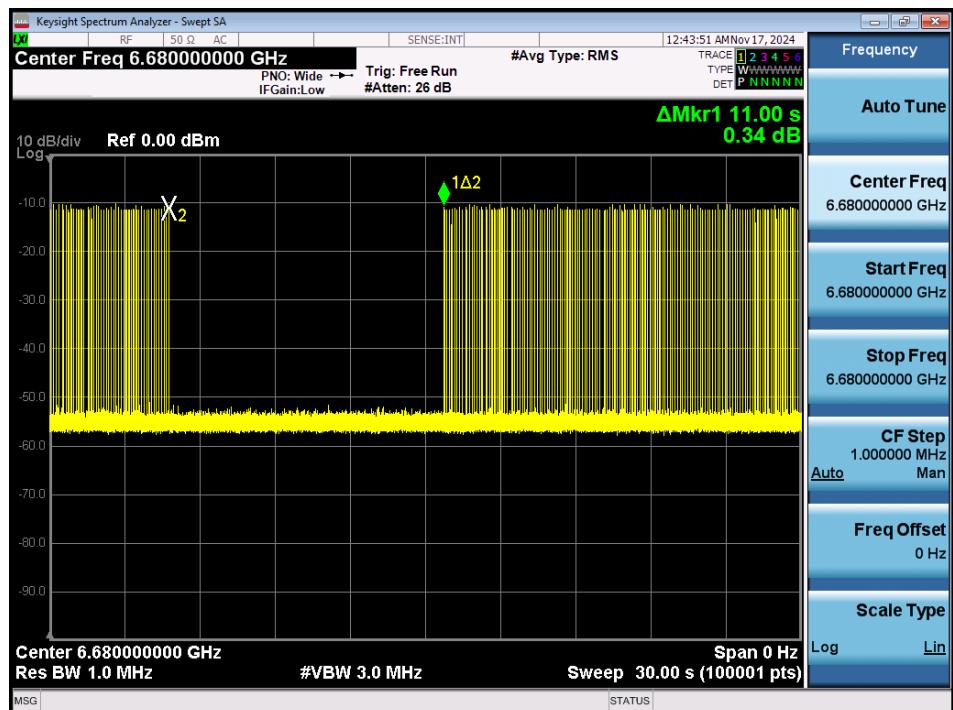


Plot 7-156. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Low

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 81 of 134

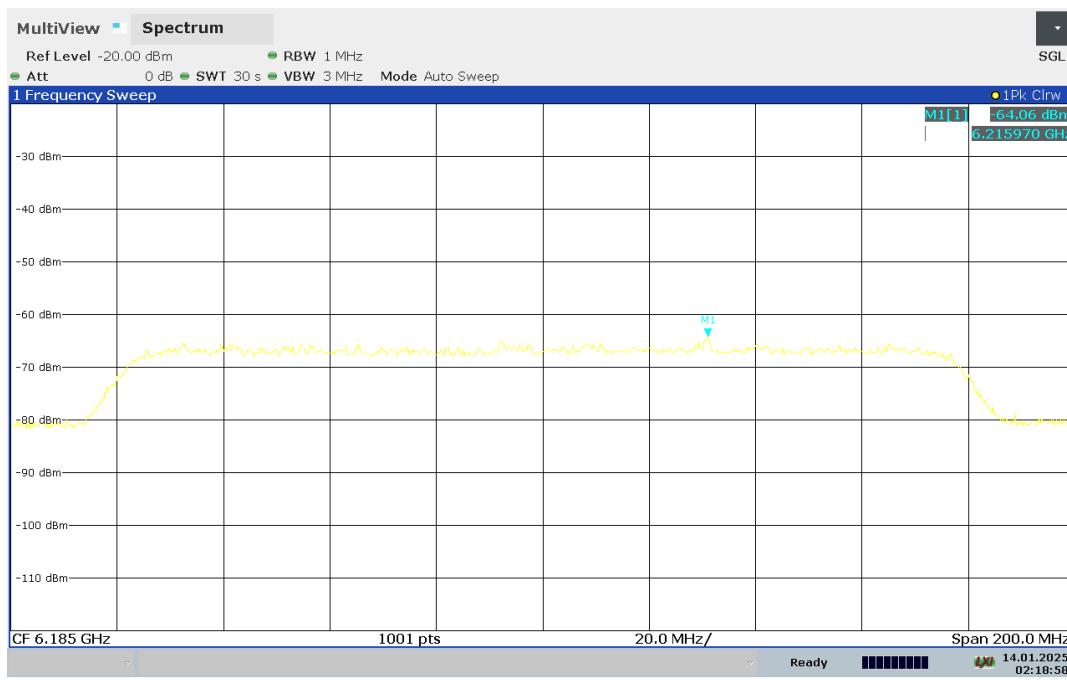


Plot 7-157. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – Mid

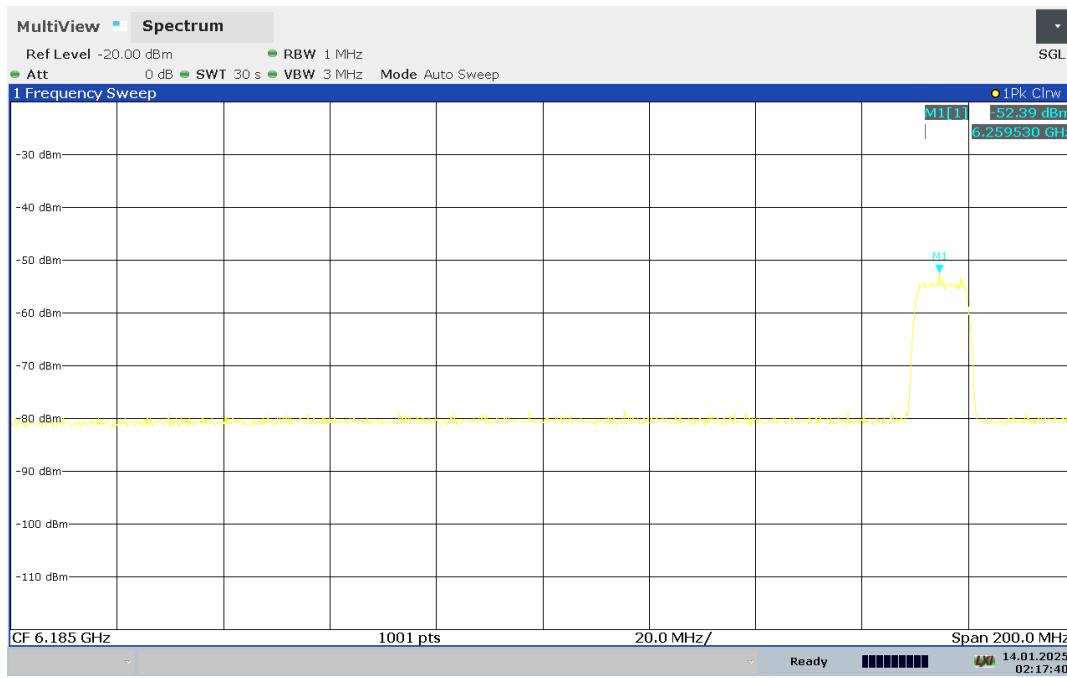


Plot 7-158. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Channel 143 – High

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 82 of 134

CBP Bandwidth Reduction Plots


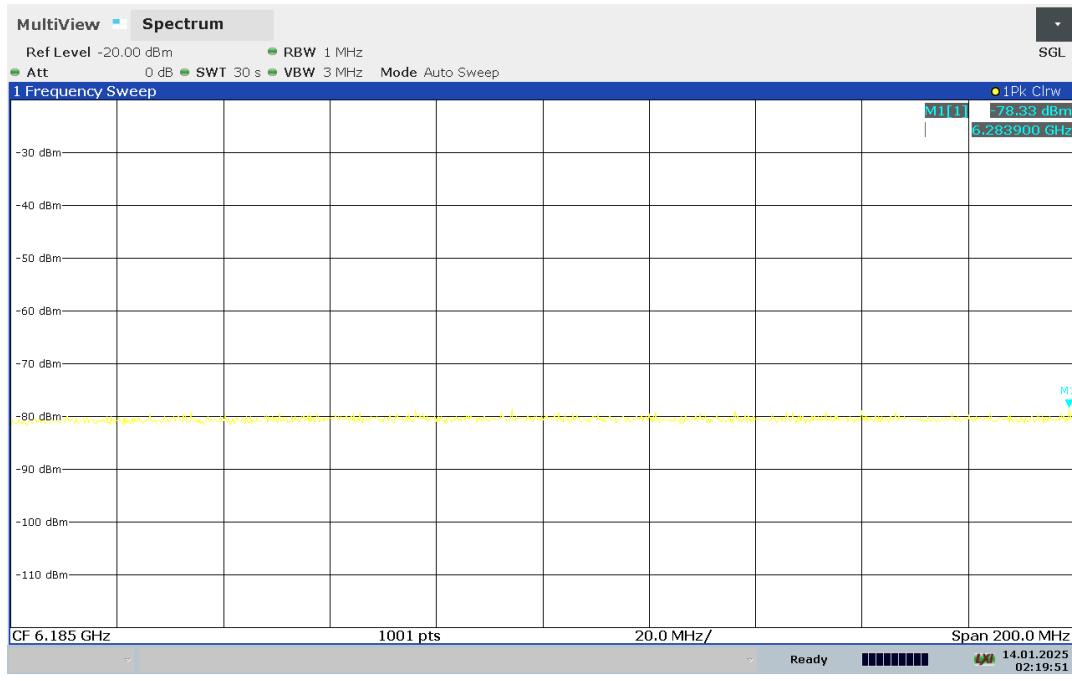
02:18:58 14.01.2025

Plot 7-159. 160MHz Bandwidth, Before AWGN Signal Injected – Channel 47


02:17:41 14.01.2025

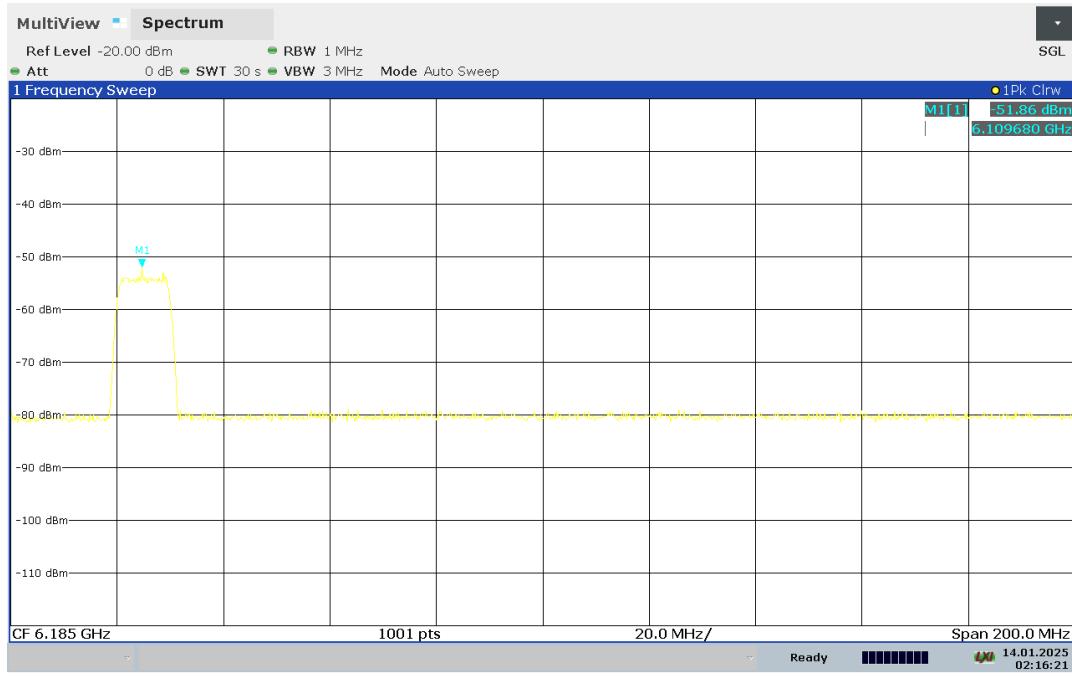
Plot 7-160. 160MHz Bandwidth, AWGN Signal Injected at Low End – Channel 47

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 83 of 134



02:19:51 14.01.2025

Plot 7-161. 160MHz Bandwidth, AWGN Signal Injected at Center – Channel 47



02:16:21 14.01.2025

Plot 7-162. 160MHz Bandwidth, AWGN Signal Injected at High End – Channel 47

FCC ID: BCGA3269 IC: 579C-A3269		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 84 of 134

7.7 Transmit Power Control (TPC)

§15.407(d.10); RSS-248[4.6]

Test Overview and Limit

Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.6
KDB 789033 D02 v02r01 – Section F

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Set span to encompass the entire 99% OBW of the signal.
3. Set sweep trigger to “free run.”
4. Set RBW = 1 MHz
5. Set VBW \geq 3 MHz
6. Number of points in sweep $\geq 2 \times$ span / RBW.
7. Sweep time \leq (number of points in sweep) \times T, where T is defined
8. Detector = power averaging (rms).
9. Trace mode = max hold.
10. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

Test Setup

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

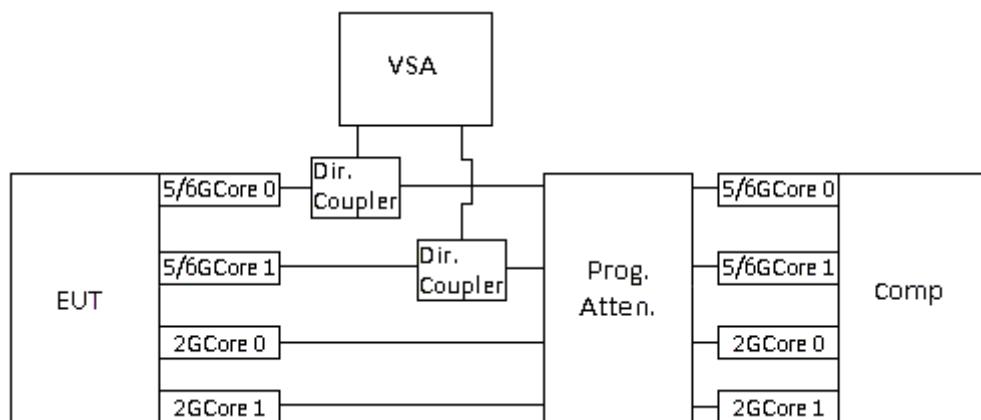


Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 85 of 134

This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and companion device for peer-to-peer communication as shown in Figure 7-6.
2. Set variable attenuator to 0dB (noise free spectral environment, high RSSI simulation)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD on spectrum analyzer
5. Set attenuator to 20dB (noisy spectral environment, low RSSI simulation)
6. Capture PSD on spectrum analyzer
7. Compare the highest PSD captured in step 4 to the highest PSD on step 6 and determine the delta.

Test Notes

1. The companion device used was model: A3267 (refer to Table 2-10)
2. Per manufacturer's declaration, after establishing communication between the EUT and the companion device, 6GHz UNII signal was used to maintain communication and traffic.
3. TPC is triggered when a high RSSI is detected. As RSSI detected signal decreases, the transmitters output power will increase back to maximum allowed power.

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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BW [MHz]	Frequency [MHz]	MIMO		Summed Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]	Pass/Fail					
		Measured Power Density [dBm/MHz]											
		Antenna 5T	Antenna 3b										
160	6185	-17.99	-20.78	-16.15	1.79	-14.37	-11.00	Pass					

Table 7-38. PSD Measurements (No TPC)

BW [MHz]	Frequency [MHz]	MIMO		Summed Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]	Pass/Fail					
		Measured Power Density [dBm/MHz]											
		Antenna 5T	Antenna 3b										
160	6185	-11.64	-14.16	-9.71	1.79	-7.92	-5.00	Pass					

Table 7-39. PSD Measurements (with TPC)

Plot 7-163. 160MHz Bandwidth – 6185MHz Antenna 5T

Plot 7-164. 160MHz Bandwidth – 6185MHz Antenna 3b

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 Radiated Spurious Emissions – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax(SU) (20MHz BW), 802.11ax(SU) (40MHz BW), 802.11ax(SU) (80MHz), 802.11ax(SU) (160MHz) and modulations/data rates were investigated among the UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27 dBm/MHz. Emissions found in a restricted band are subject to the limits of 15.209 and RSS-Gen (8.9) as shown in the table below.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-40. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Sections 12.7.7, 12.7.6.
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times$ span/RBW)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

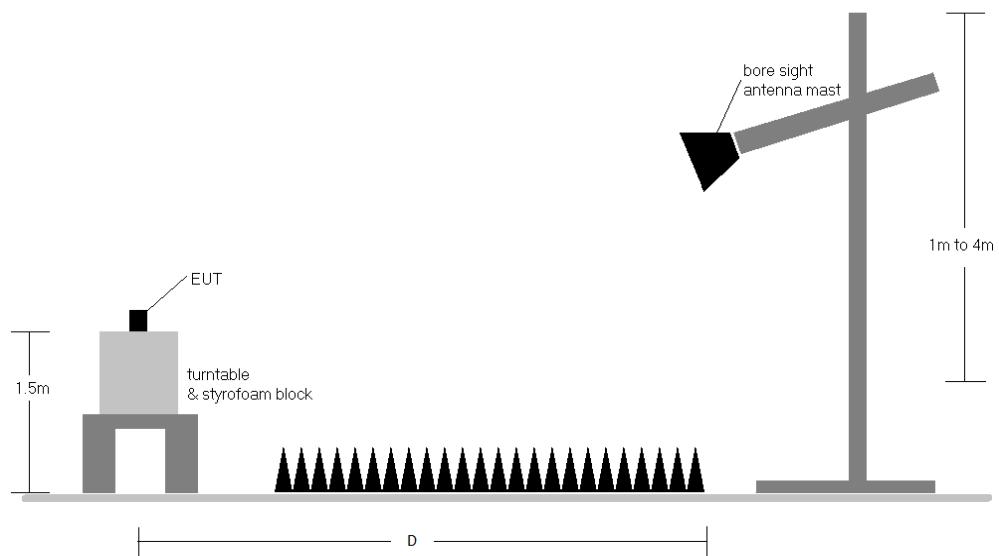


Figure 7-7. Test Instrument & Measurement Setup

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 89 of 134

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-40.
2. All spurious emissions lying in restricted bands specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-40. All spurious emissions that do not lie in a restricted band are subject to a limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. All data rates and antenna configurations were investigated and only the worse case is reported
9. The unit was tested with all possible modes and only the highest emission is reported.
10. The " - " shown in the following RSE tables are used to denote a noise floor measurement.
11. All radiated measurements were tested at the highest supported power setting per band.

Sample Calculations

Determining Spurious Emissions Levels

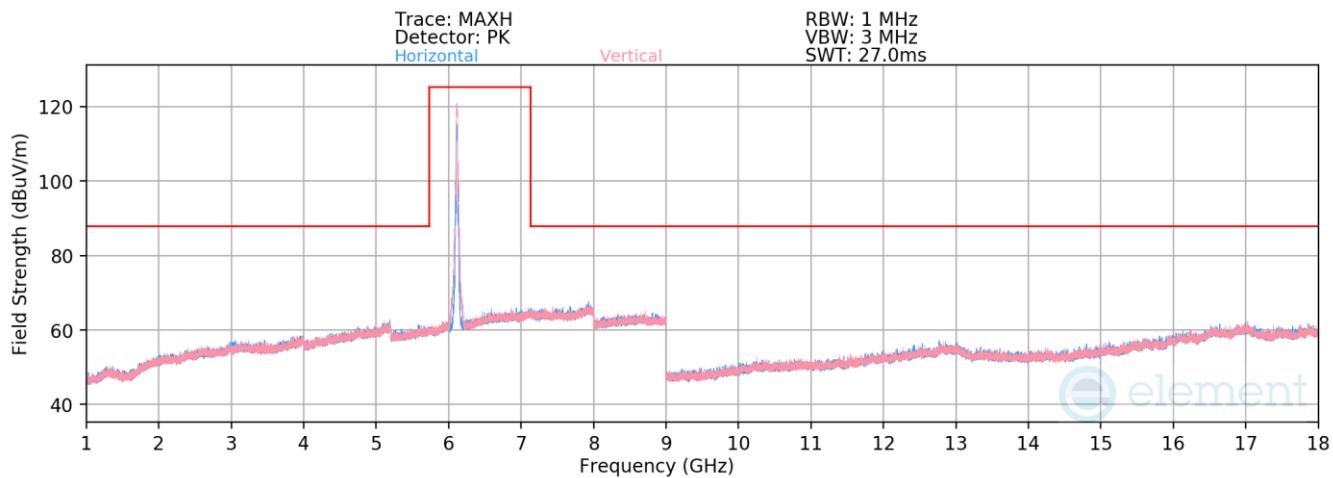
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

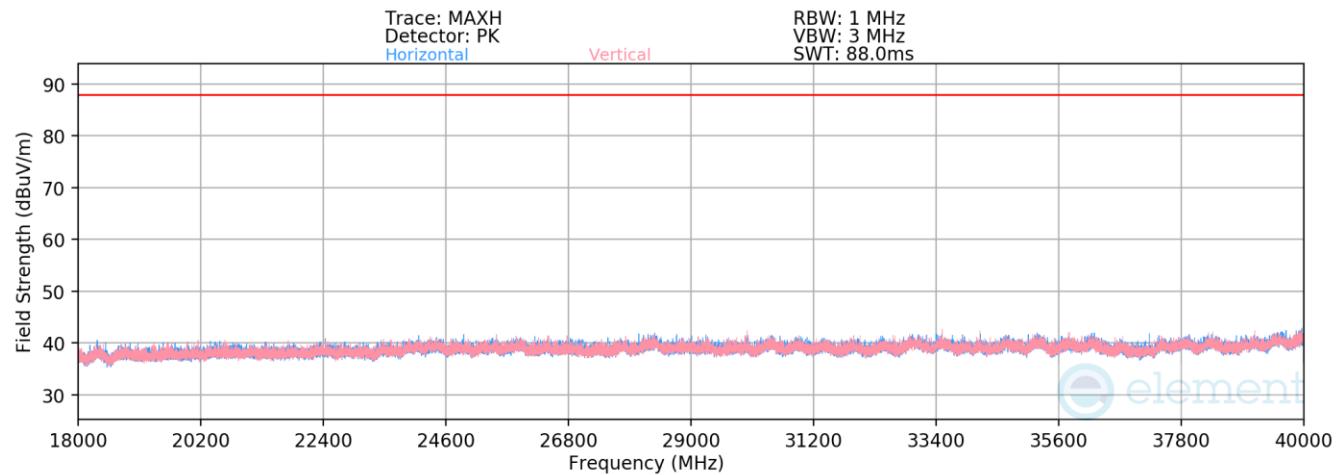
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8.3 to 7.8.22 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.8.1 SDM Primary Radiated Spurious Emission



Plot 7-165. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 33)



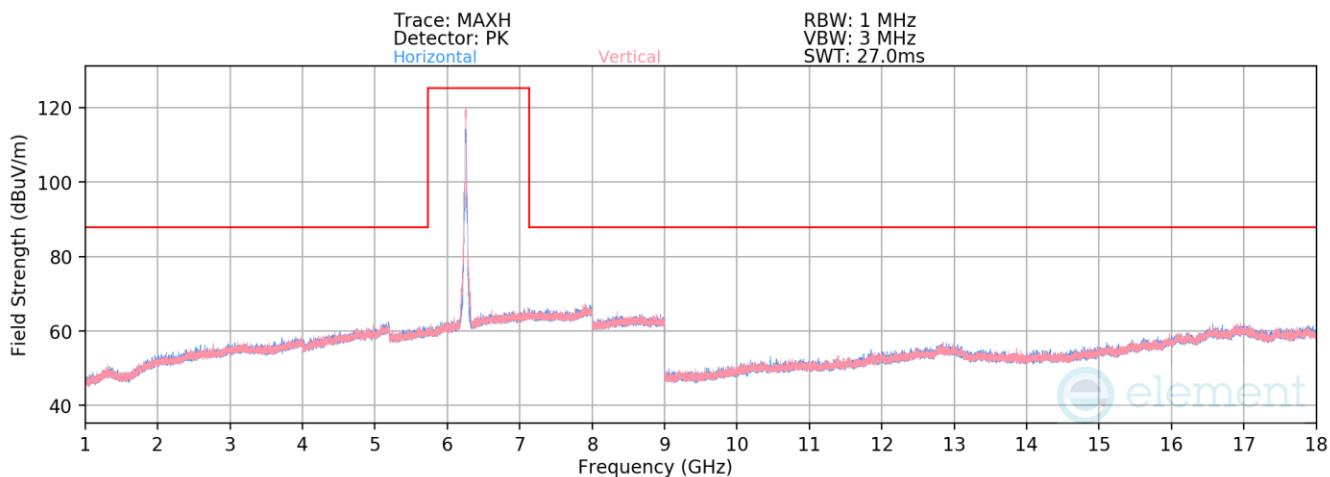
Plot 7-166. Radiated Spurious Emissions 18-40GHz SDM Primary (802.11ax – Ch. 33)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6115MHz
Channel:	33

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12230.00	Average	H	-	-	-85.36	20.62	42.25	53.98	-11.73
* 12230.00	Peak	H	-	-	-74.01	20.77	53.76	73.98	-20.22

Table 7-41. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	e element MEASUREMENT REPORT (CERTIFICATION)					Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device				Page 91 of 134



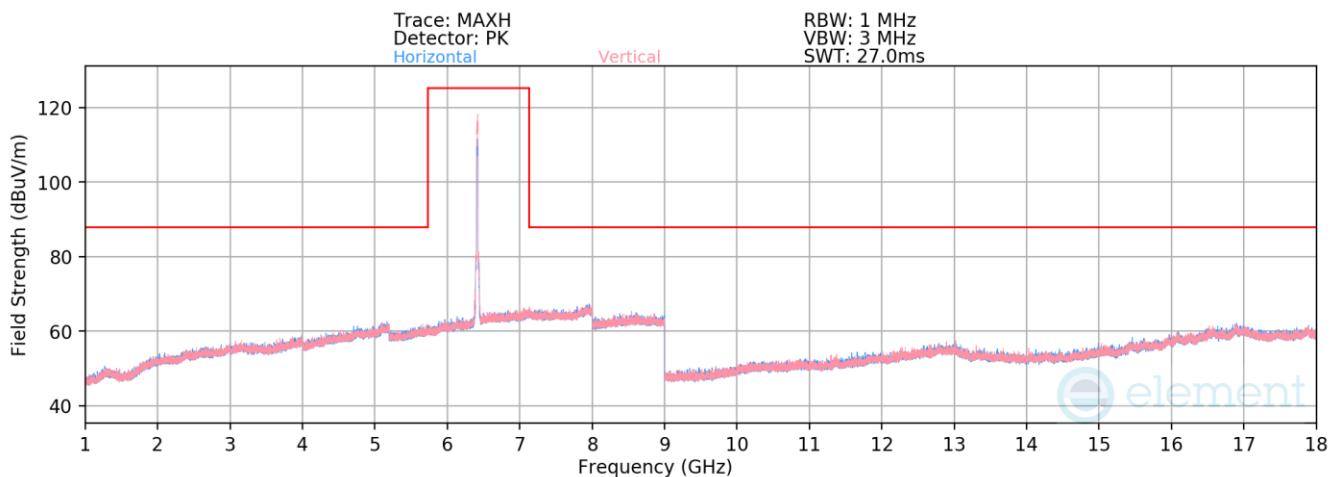
Plot 7-167. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 61)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6255MHz
 Channel: 61

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12510.00	Average	H	-	-	-85.05	21.42	43.37	53.98	-10.61
* 12510.00	Peak	H	-	-	-74.12	21.44	54.32	73.98	-19.66

Table 7-42. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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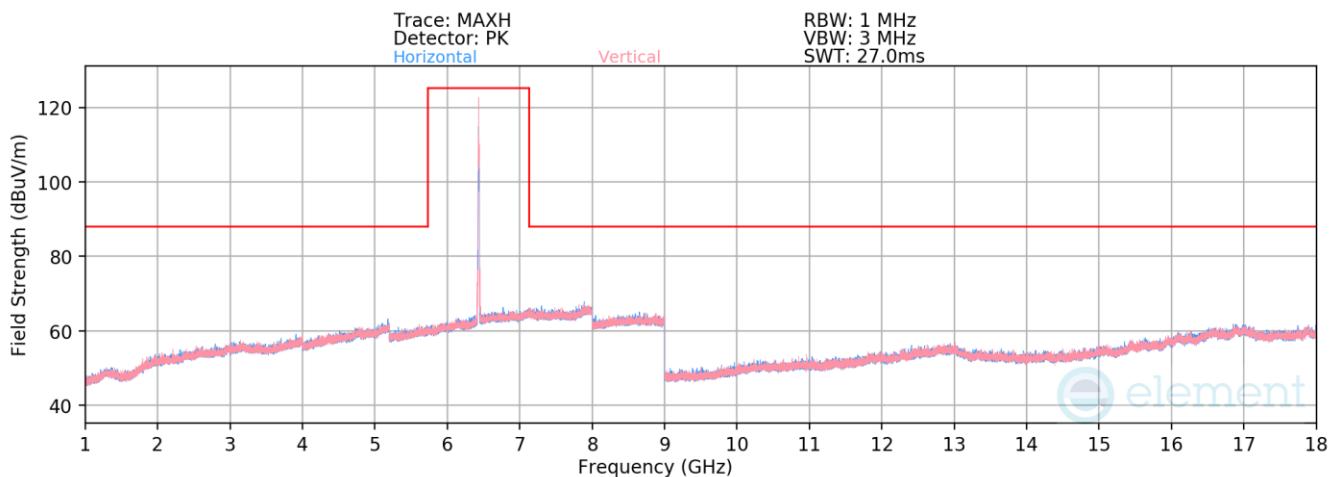
Plot 7-168. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 93)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6415MHz
 Channel: 93

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
12830.00	Average	H	-	-	-84.51	21.61	44.11	68.23	-24.12
12830.00	Peak	H	-	-	-74.07	21.79	54.72	88.23	-33.51

Table 7-43. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 93 of 134



Plot 7-169. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 117)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6535MHz
 Channel: 117

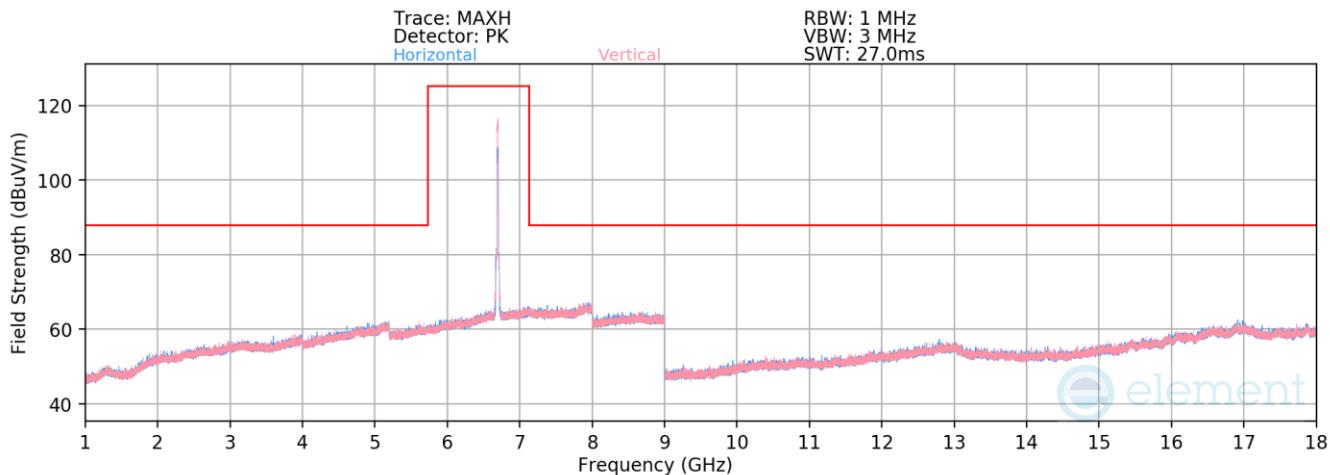
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
13070.00	Average	H	-	-	-84.94	21.85	43.91	68.23	-24.32
13070.00	Peak	H	-	-	-73.86	21.85	55.00	88.23	-33.23

Table 7-44. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device			

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Plot 7-170. Radiated Spurious Emissions 1-18GHz SDM Primary (802.11ax – Ch. 149)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 13390.00	Average	V	-	-	-85.60	21.99	43.39	53.98	-10.59
* 13390.00	Peak	V	-	-	-73.90	21.88	54.98	73.98	-19.00

Table 7-45. Radiated Spurious Emission Measurements SDM Primary

FCC ID: BCGA3269 IC: 579C-A3269	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210075-25.BCG	Test Dates: 10/25/2024 - 1/15/2025	EUT Type: Tablet Device	Page 95 of 134