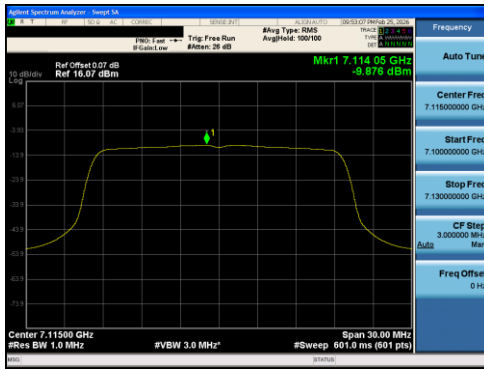
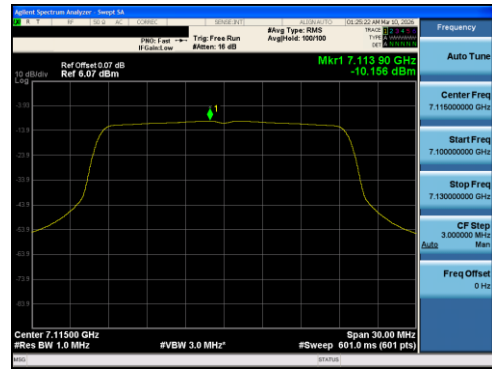
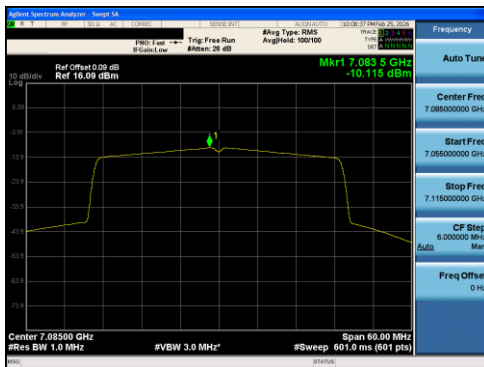




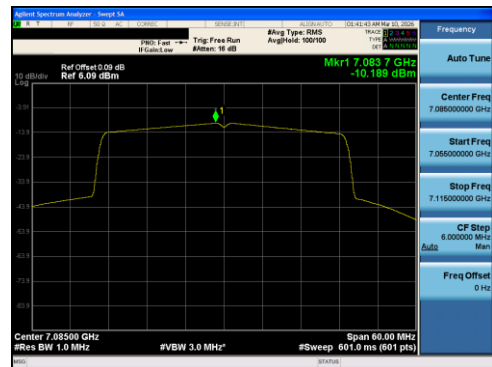
Plot 7-67 PSD SDM Antenna 0 (20MHz BW 802.11ax(SU) - Ch.233)



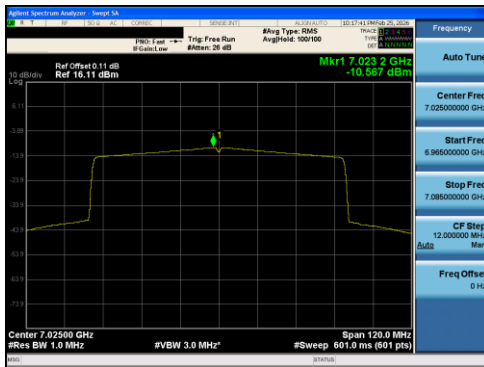
Plot 7-70 PSD SDM Antenna 1 (20MHz BW 802.11ax(SU) - Ch.233)



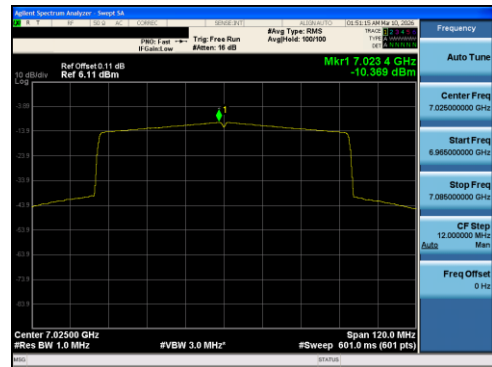
Plot 7-68 PSD SDM Antenna 0 (40MHz BW 802.11ax(SU) - Ch.227)



Plot 7-71 PSD SDM Antenna 1 (40MHz BW 802.11ax(SU) - Ch.227)



Plot 7-69 PSD SDM Antenna 0 (80MHz BW 802.11ax(SU) - Ch.215)



Plot 7-72 PSD SDM Antenna 1 (80MHz BW 802.11ax(SU) - Ch.215)

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Note:

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF7a and Antenna WF8 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 4.5 dBi for Antenna 0 and 4.0 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.5/20} + 10^{4.0/20} / 2] \text{ dBi} \\ &= 4.50 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 4.50 dBi for Antenna 0 and 4.00 dBi for Antenna 1.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.5/10} + 10^{4.0/10} / 2] \text{ dBi} \\ &= 4.26 \text{ dBi}\end{aligned}$$

Sample SDM Calculation:

At 6115MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -11.08 dBm for Antenna 0 and -11.51 dBm for Antenna 1.

$$\text{Antenna 0} + \text{Antenna 1} = \text{CDD/SDM}$$

$$(-11.08 \text{ dBm} + -11.51 \text{ dBm}) = (0.078 \text{ mW} + 0.0706 \text{ mW}) = 0.1486 \text{ mW} = -8.28 \text{ dBm}$$

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

At 6115MHz in 802.11ax (20MHz BW) mode, the average SDM power density was calculated to be -8.28 dBm with directional gain of 0.45 dBi.

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

$$-8.28 \text{ dBm} + 0.45 \text{ dBi} = -7.83 \text{ dBm}$$

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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7.5 In-Band Emissions

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 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 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 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – 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 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024. (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.

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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 (low, mid, and high) were investigated. Only the worst-case plots are reported.

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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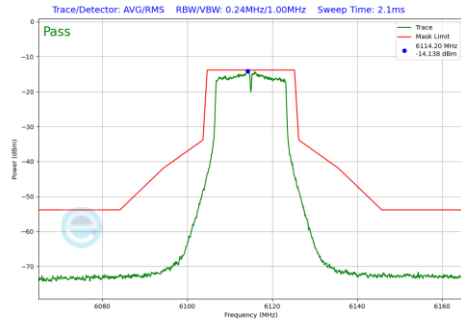
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7.5.1 Antenna 0 In-Band Emission Measurements – VLP

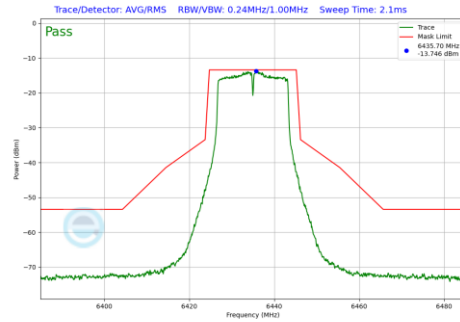
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna 0 In-Band Emission
Band 5	6115	33	a	12Mbps	Pass
	6175	61	a	36Mbps	Pass
	6415	93	a	12Mbps	Pass
	6115	33	ax (20MHz)	MCS4	Pass
	6175	61	ax (20MHz)	MCS4	Pass
	6415	93	ax (20MHz)	MCS2	Pass
	6125	35	ax (40MHz)	MCS4	Pass
	6165	59	ax (40MHz)	MCS4	Pass
	6405	91	ax (40MHz)	MCS2	Pass
	6145	39	ax (80MHz)	MCS2	Pass
	6145	55	ax (80MHz)	MCS2	Pass
	6385	87	ax (80MHz)	MCS2	Pass
Band 6	6435	97	a	6Mbps	Pass
	6475	105	a	12Mbps	Pass
	6515	113	a	6Mbps	Pass
	6345	97	ax (20MHz)	MCS2	Pass
	6475	105	ax (20MHz)	MCS2	Pass
	6515	113	ax (20MHz)	MCS4	Pass
	6445	99	ax (40MHz)	MCS2	Pass
	6485	107	ax (40MHz)	MCS2	Pass
	6525	115	ax (40MHz)	MCS4	Pass
	6465	103	ax (80MHz)	MCS2	Pass
Band 7	6535	117	a	36Mbps	Pass
	6695	149	a	36Mbps	Pass
	6875	185	a	36Mbps	Pass
	6535	117	ax (20MHz)	MCS11	Pass
	6695	149	ax (20MHz)	MCS2	Pass
	6875	185	ax (20MHz)	MCS4	Pass
	6565	123	ax (40MHz)	MCS2	Pass
	6725	155	ax (40MHz)	MCS4	Pass
	6885	179	ax (40MHz)	MCS4	Pass
	6545	119	ax (80MHz)	MCS2	Pass
	6705	151	ax (80MHz)	MCS2	Pass
	6865	183	ax (80MHz)	MCS4	Pass
Band 8	6895	189	a	36Mbps	Pass
	6995	209	a	12Mbps	Pass
	7115	233	a	12Mbps	Pass
	6895	189	ax (20MHz)	MCS4	Pass
	6995	209	ax (20MHz)	MCS4	Pass
	7115	233	ax (20MHz)	MCS4	Pass
	6925	187	ax (40MHz)	MCS4	Pass
	7005	211	ax (40MHz)	MCS2	Pass
	7085	227	ax (40MHz)	MCS2	Pass
	6945	199	ax (80MHz)	MCS2	Pass
	7025	215	ax (80MHz)	MCS2	Pass

Table 7-18. In-Band Emission Measurements Antenna 0

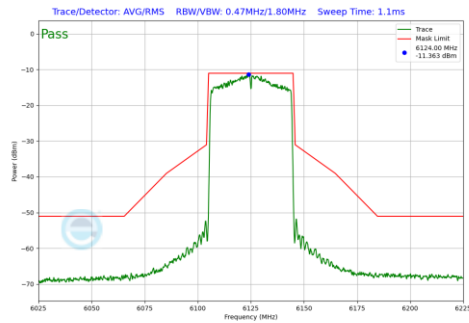
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 55 of 133



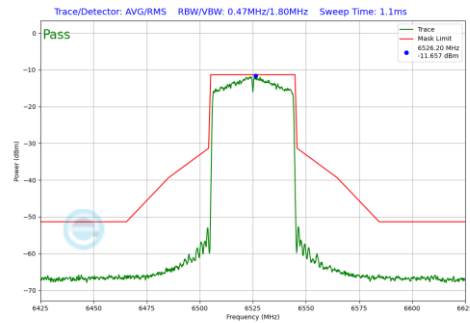
Plot 7-73 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 5) - Ch.33)



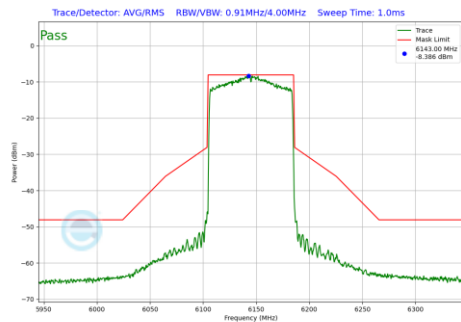
Plot 7-76 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 6) - Ch.97)



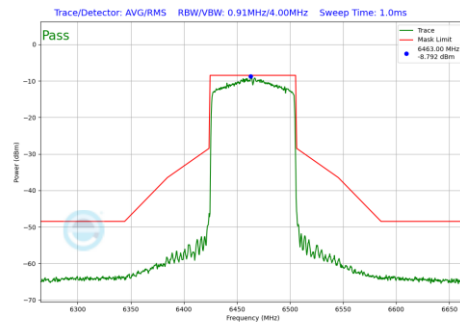
Plot 7-74 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 5) - Ch.35)



Plot 7-77 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 6) - Ch.115)

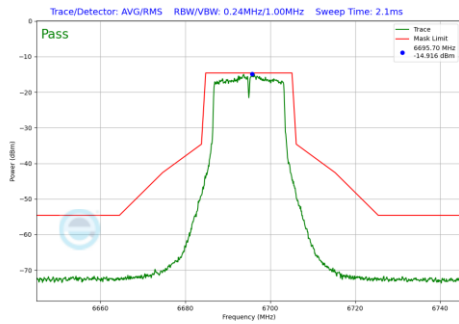


Plot 7-75 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 5) - Ch.39)

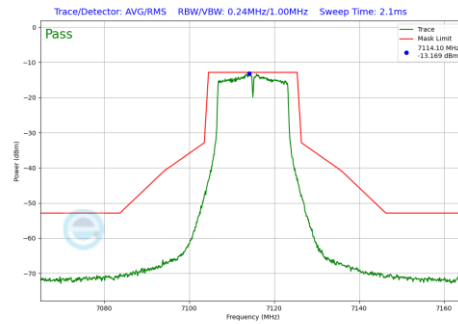


Plot 7-78 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 6) - Ch.103)

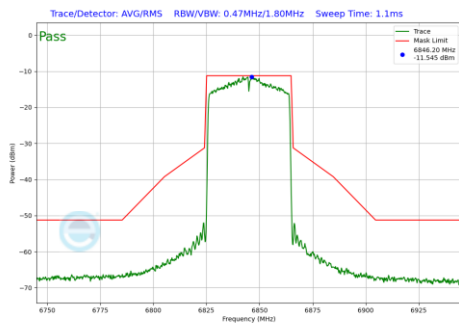
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 56 of 133



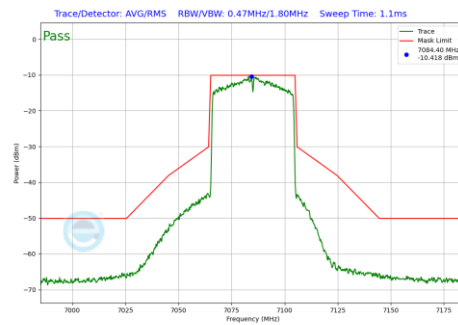
Plot 7-79 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 7) - Ch.149)



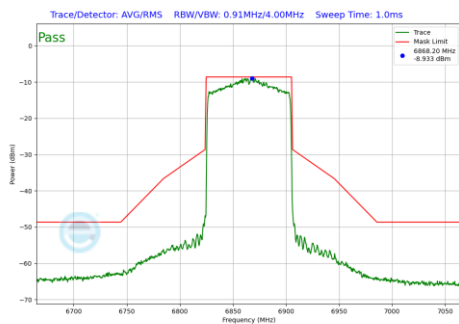
Plot 7-82 In-Band Emission Plot Antenna 0 (20MHz BW 802.11a (UNII Band 8) - Ch.233)



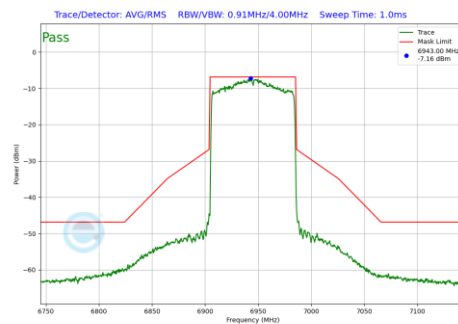
Plot 7-80 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 7) - Ch.179)



Plot 7-83 In-Band Emission Plot Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 8) - Ch.227)



Plot 7-81 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.183)



Plot 7-84 In-Band Emission Plot Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 8) - Ch.199)

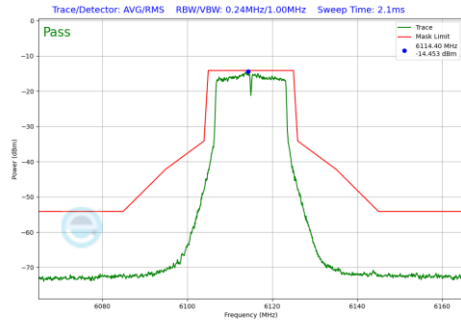
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 57 of 133

7.5.2 Antenna 1 In-Band Emission Measurements – VLP

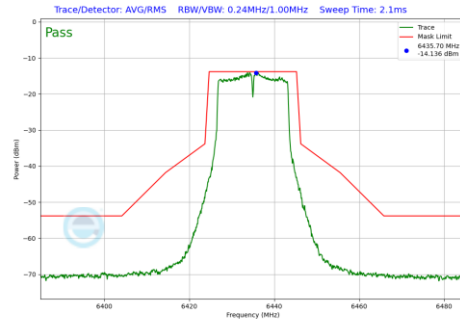
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Antenna 1 In-Band Emission
Band 5	6115	33	a	36Mbps	Pass
	6175	61	a	12Mbps	Pass
	6415	93	a	12Mbps	Pass
	6115	33	ax (20MHz)	MCS4	Pass
	6175	61	ax (20MHz)	MCS4	Pass
	6415	93	ax (20MHz)	MCS4	Pass
	6125	35	ax (40MHz)	MCS2	Pass
	6165	59	ax (40MHz)	MCS2	Pass
	6405	91	ax (40MHz)	MCS2	Pass
	6145	39	ax (80MHz)	MCS2	Pass
	6145	55	ax (80MHz)	MCS2	Pass
	6385	87	ax (80MHz)	MCS2	Pass
Band 6	6435	97	a	36Mbps	Pass
	6475	105	a	12Mbps	Pass
	6515	113	a	6Mbps	Pass
	6345	97	ax (20MHz)	MCS2	Pass
	6475	105	ax (20MHz)	MCS2	Pass
	6515	113	ax (20MHz)	MCS4	Pass
	6445	99	ax (40MHz)	MCS4	Pass
	6485	107	ax (40MHz)	MCS4	Pass
	6525	115	ax (40MHz)	MCS2	Pass
	6465	103	ax (80MHz)	MCS2	Pass
Band 7	6535	117	a	6Mbps	Pass
	6695	149	a	36Mbps	Pass
	6875	185	a	36Mbps	Pass
	6535	117	ax (20MHz)	MCS4	Pass
	6695	149	ax (20MHz)	MCS4	Pass
	6875	185	ax (20MHz)	MCS2	Pass
	6565	123	ax (40MHz)	MCS2	Pass
	6725	155	ax (40MHz)	MCS2	Pass
	6885	179	ax (40MHz)	MCS2	Pass
	6545	119	ax (80MHz)	MCS2	Pass
	6705	151	ax (80MHz)	MCS4	Pass
	6865	183	ax (80MHz)	MCS4	Pass
Band 8	6895	189	a	36Mbps	Pass
	6995	209	a	6Mbps	Pass
	7115	233	a	36Mbps	Pass
	6895	189	ax (20MHz)	MCS4	Pass
	6995	209	ax (20MHz)	MCS4	Pass
	7115	233	ax (20MHz)	MCS4	Pass
	6925	187	ax (40MHz)	MCS4	Pass
	7005	211	ax (40MHz)	MCS2	Pass
	7085	227	ax (40MHz)	MCS2	Pass
	6945	199	ax (80MHz)	MCS2	Pass
	7025	215	ax (80MHz)	MCS2	Pass

Table 7-19. In-Band Emission Measurements Antenna 1

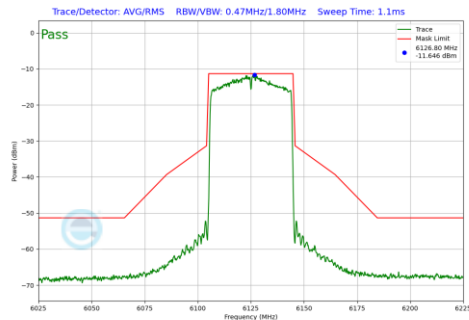
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 58 of 133



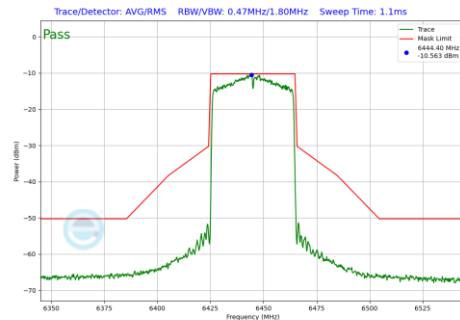
Plot 7-85 In-Band Emission Plot Antenna 1 (20MHz BW 802.11a (UNII Band 5) - Ch.33)



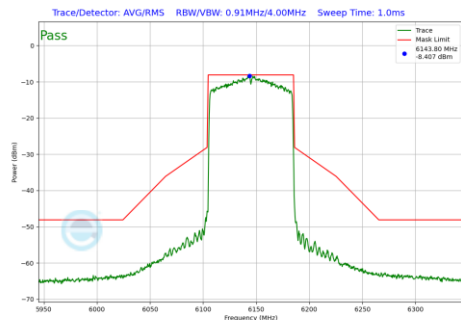
Plot 7-88 In-Band Emission Plot Antenna 1 (20MHz BW 802.11a (UNII Band 6) - Ch.97)



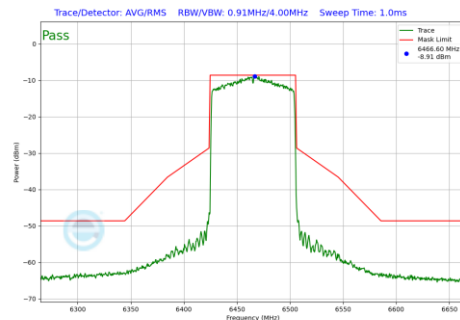
Plot 7-86 In-Band Emission Plot Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 5) - Ch.35)



Plot 7-89 In-Band Emission Plot Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 6) - Ch.99)

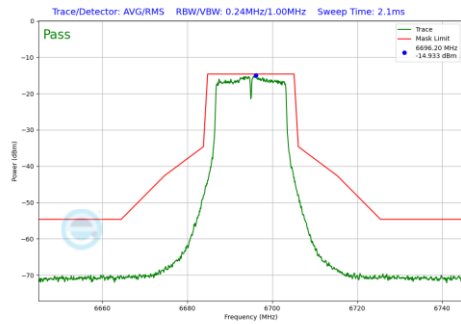


Plot 7-87 In-Band Emission Plot Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 5) - Ch.39)

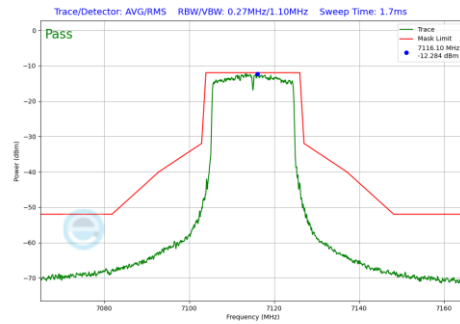


Plot 7-90 In-Band Emission Plot Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 6) - Ch.103)

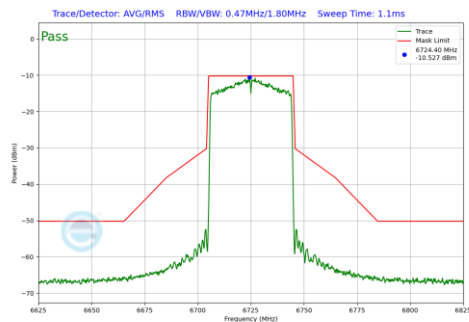
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



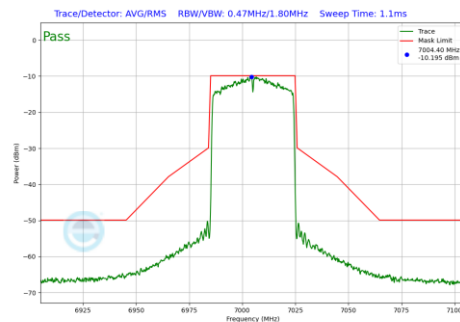
Plot 7-91 In-Band Emission Plot Antenna 1 (20MHz BW 802.11a (UNII Band 7) - Ch.149)



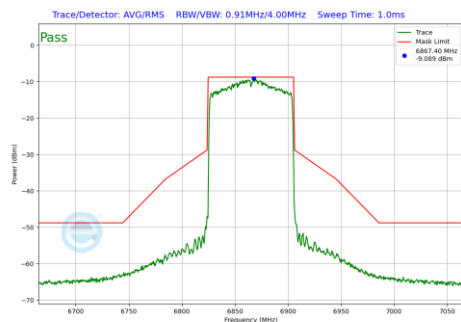
Plot 7-94 In-Band Emission Plot Antenna 1 (20MHz BW 802.11ax(SU) (UNII Band 8) - Ch.233)



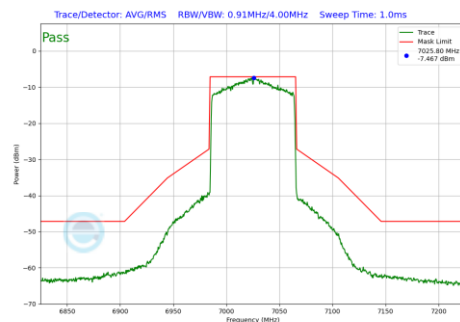
Plot 7-92 In-Band Emission Plot Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 7) - Ch.155)



Plot 7-95 In-Band Emission Plot Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 8) - Ch.211)



Plot 7-93 In-Band Emission Plot Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.183)



Plot 7-96 In-Band Emission Plot Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 8) - Ch.215)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 60 of 133

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7.5.3 SDM In-Band Emission Measurements – VLP

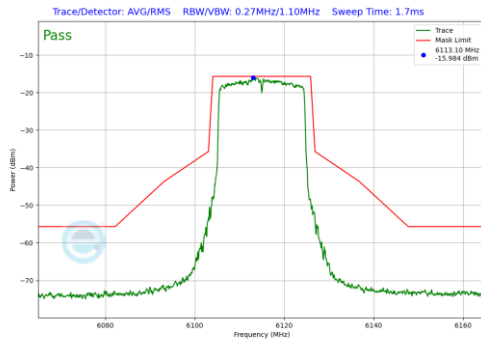
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate	Antenna 0 In-Band Emission	Antenna 1 In-Band Emission
Band 5	6115	33	ax (20MHz)	SDM	MCS4	Pass	Pass
	6255	61	ax (20MHz)	SDM	MCS4	Pass	Pass
	6415	93	ax (20MHz)	SDM	MCS2	Pass	Pass
	6125	35	ax (40MHz)	SDM	MCS4	Pass	Pass
	6245	59	ax (40MHz)	SDM	MCS4	Pass	Pass
	6405	91	ax (40MHz)	SDM	MCS4	Pass	Pass
	6145	39	ax (80MHz)	SDM	MCS4	Pass	Pass
	6225	55	ax (80MHz)	SDM	MCS2	Pass	Pass
	6385	87	ax (80MHz)	SDM	MCS2	Pass	Pass
Band 6	6435	97	ax (20MHz)	SDM	MCS4	Pass	Pass
	6475	105	ax (20MHz)	SDM	MCS4	Pass	Pass
	6515	113	ax (20MHz)	SDM	MCS4	Pass	Pass
	6445	99	ax (40MHz)	SDM	MCS4	Pass	Pass
	6485	107	ax (40MHz)	SDM	MCS2	Pass	Pass
	6525	115	ax (40MHz)	SDM	MCS4	Pass	Pass
	6465	103	ax (80MHz)	SDM	MCS4	Pass	Pass
Band 7	6535	117	ax (20MHz)	SDM	MCS4	Pass	Pass
	6695	149	ax (20MHz)	SDM	MCS2	Pass	Pass
	6875	185	ax (20MHz)	SDM	MCS2	Pass	Pass
	6565	123	ax (40MHz)	SDM	MCS4	Pass	Pass
	6725	155	ax (40MHz)	SDM	MCS2	Pass	Pass
	6845	179	ax (40MHz)	SDM	MCS2	Pass	Pass
	6545	119	ax (80MHz)	SDM	MCS2	Pass	Pass
	6705	151	ax (80MHz)	SDM	MCS2	Pass	Pass
	6865	183	ax (80MHz)	SDM	MCS2	Pass	Pass
	6895	189	ax (20MHz)	SDM	MCS4	Pass	Pass
Band 8	6995	209	ax (20MHz)	SDM	MCS2	Pass	Pass
	7115	233	ax (20MHz)	SDM	MCS2	Pass	Pass
	6885	187	ax (40MHz)	SDM	MCS2	Pass	Pass
	7005	211	ax (40MHz)	SDM	MCS4	Pass	Pass
	7085	227	ax (40MHz)	SDM	MCS4	Pass	Pass
	6945	199	ax (80MHz)	SDM	MCS4	Pass	Pass
	7025	215	ax (80MHz)	SDM	MCS4	Pass	Pass

Table 7-20. In-Band Emission Measurements SDM

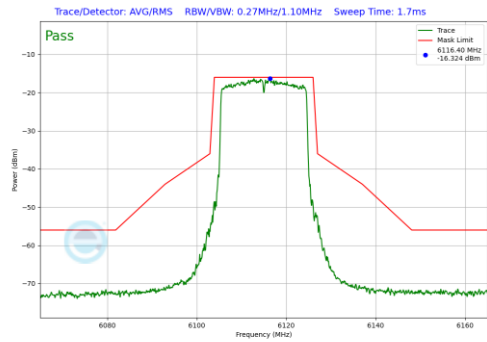
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 61 of 133

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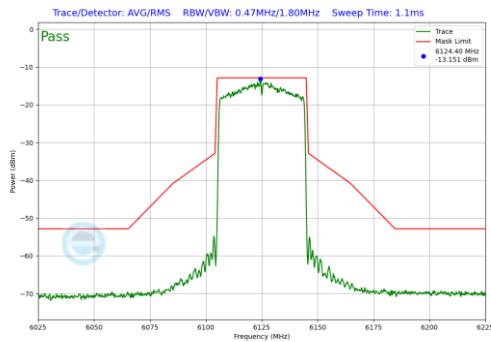
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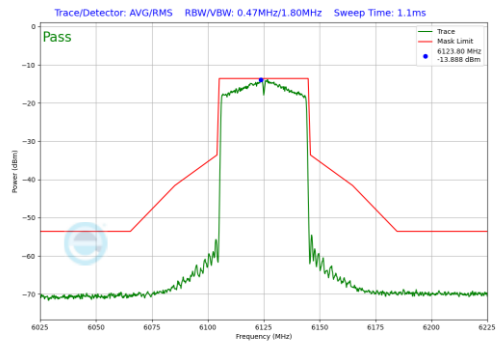
Plot 7-97 In-Band Emission Plot SDM Antenna 0 (20MHz BW 802.11ax(SU) (UNII Band 5) - Ch.33)



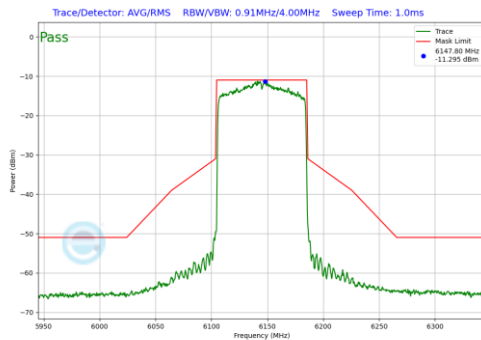
Plot 7-100 In-Band Emission Plot SDM Antenna 1 (20MHz BW 802.11ax(SU) (UNII Band 5) - Ch.33)



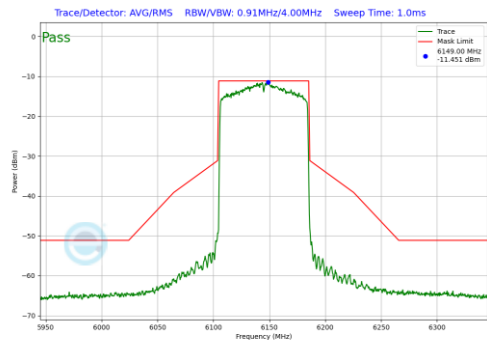
Plot 7-98 In-Band Emission Plot SDM Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 5) - Ch.35)



Plot 7-101 In-Band Emission Plot SDM Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 5) - Ch.35)

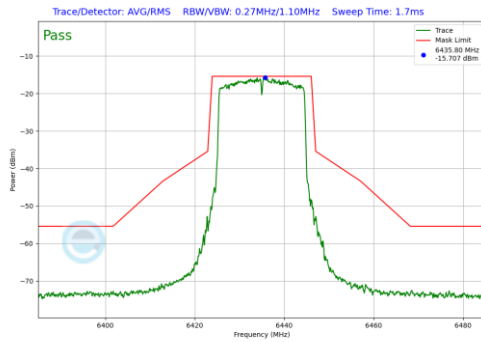


Plot 7-99 In-Band Emission Plot SDM Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 5) - Ch.39)

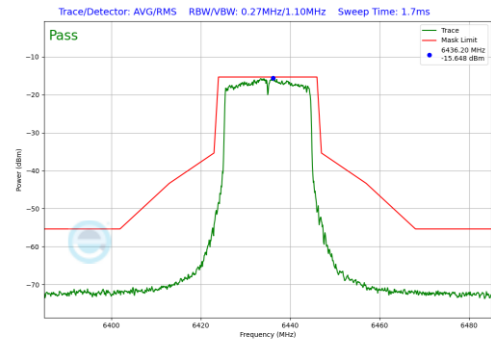


Plot 7-102 In-Band Emission Plot SDM Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 5) - Ch.39)

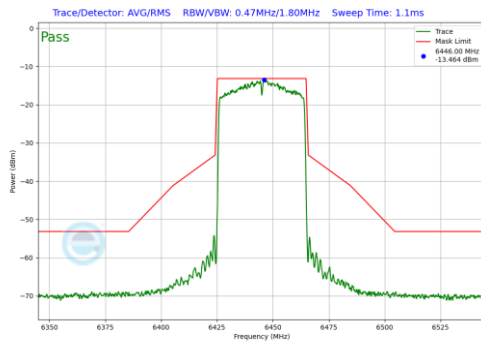
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 62 of 133



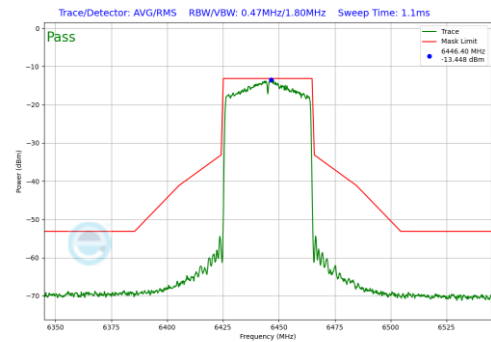
Plot 7-103 In-Band Emission Plot SDM Antenna 0 (20MHz BW 802.11ax(SU) (UNII Band 6) - Ch.97)



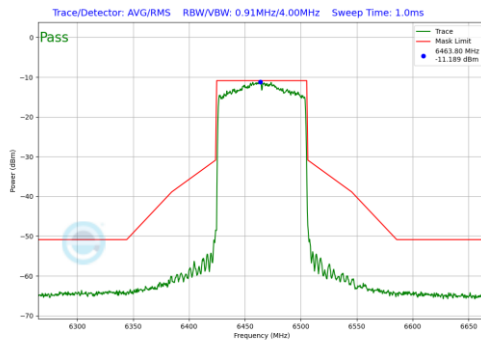
Plot 7-106 In-Band Emission Plot SDM Antenna 1 (20MHz BW 802.11ax(SU) (UNII Band 6) - Ch.97)



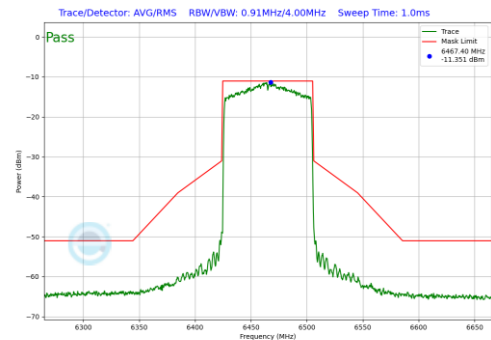
Plot 7-104 In-Band Emission Plot SDM Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 6) - Ch.99)



Plot 7-107 In-Band Emission Plot SDM Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 6) - Ch.99)

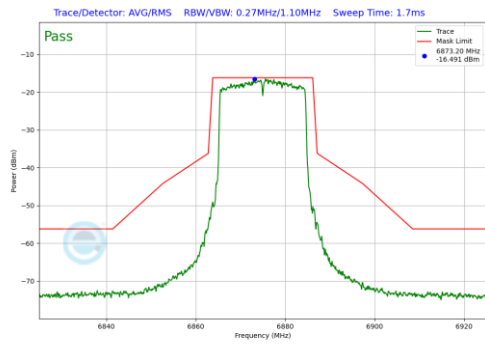


Plot 7-105 In-Band Emission Plot SDM Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 6) - Ch.103)

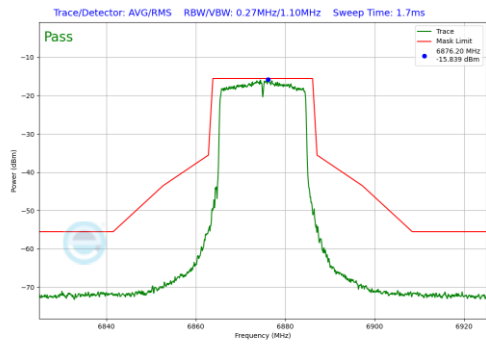


Plot 7-108 In-Band Emission Plot SDM Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 6) - Ch.103)

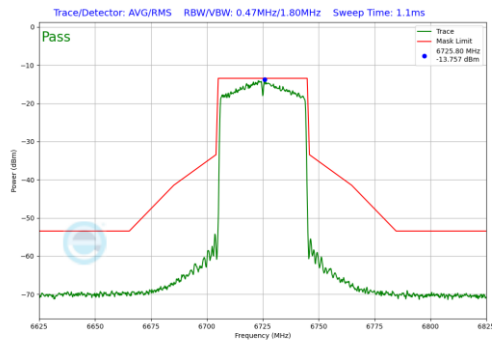
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 63 of 133



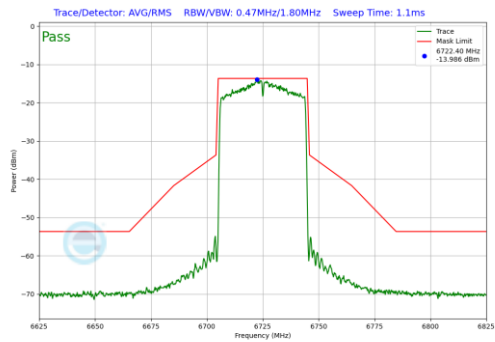
Plot 7-109 In-Band Emission Plot SDM Antenna 0 (20MHz BW 802.11ax(SU) (UNII Band 7) - Ch.185)



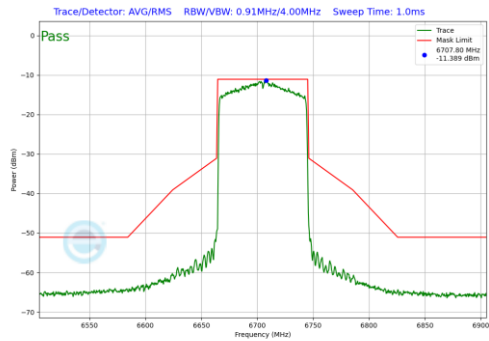
Plot 7-112 In-Band Emission Plot SDM Antenna 1 (20MHz BW 802.11ax(SU) (UNII Band 7) - Ch.185)



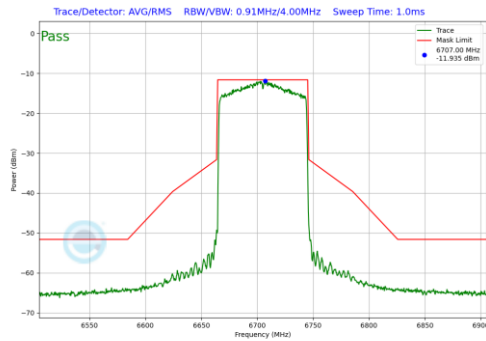
Plot 7-110 In-Band Emission Plot SDM Antenna 0 (40MHz BW 802.11ax(SU) (UNII Band 7) - Ch.155)



Plot 7-113 In-Band Emission Plot SDM Antenna 1 (40MHz BW 802.11ax(SU) (UNII Band 7) - Ch.155)

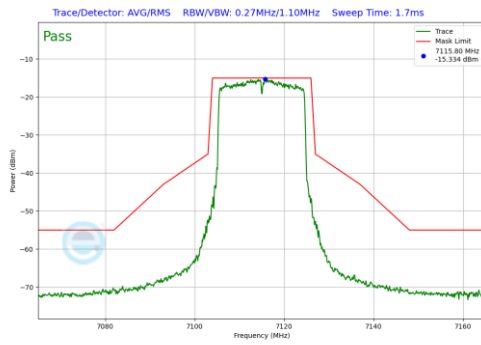


Plot 7-111 In-Band Emission Plot SDM Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.151)

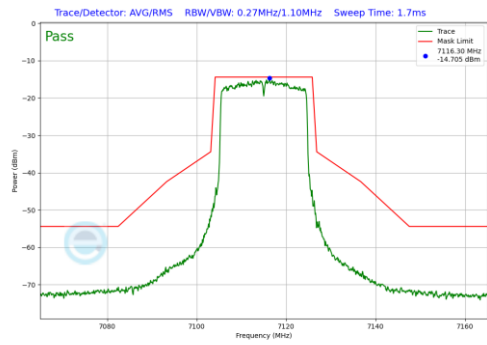


Plot 7-114 In-Band Emission Plot SDM Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.151)

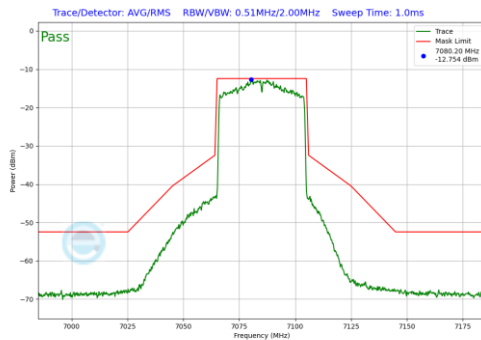
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 64 of 133



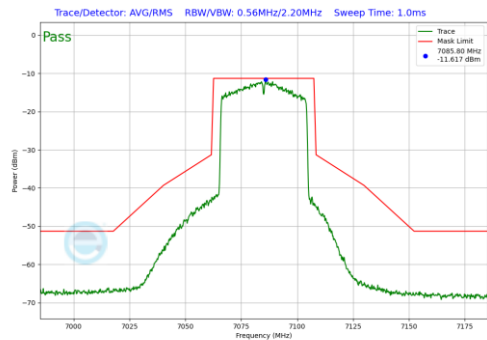
Plot 7-115 In-Band Emission Plot SDM Antenna 0 (20MHz BW 802.11ax(SU) (UNII Band 8) - Ch.233)



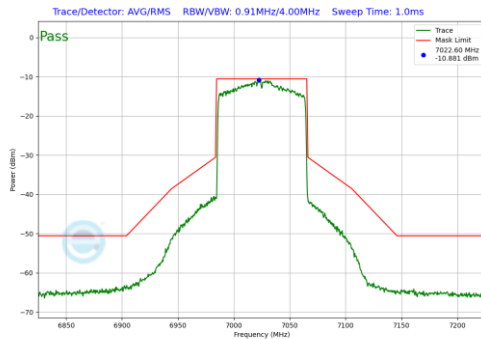
Plot 7-118 In-Band Emission Plot SDM Antenna 1 (20MHz BW 802.11ax(SU) (UNII Band 8) - Ch.233)



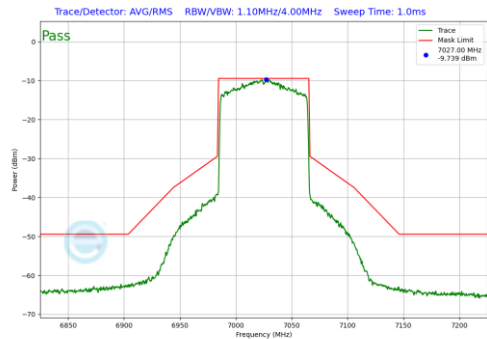
Plot 7-116 In-Band Emission Plot SDM Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.227)



Plot 7-119 In-Band Emission Plot SDM Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 7) - Ch.227)



Plot 7-117 In-Band Emission Plot SDM Antenna 0 (80MHz BW 802.11ax(SU) (UNII Band 8) - Ch.215)



Plot 7-120 In-Band Emission Plot SDM Antenna 1 (80MHz BW 802.11ax(SU) (UNII Band 8) - Ch.215)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 65 of 133

7.6 Contention Based Protocol

Test Overview and Limit

Indoor access points, subordinate devices and all client devices (except for Fixed clients), and VLP devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) must use 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, unlicensed 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: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 66 of 133

Test Setup

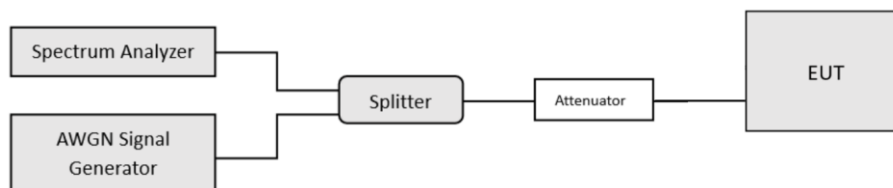


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. The EUT supports 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.
5. The Channel Power (AWGN) plots do not account for the cable loss at the antenna connector. This loss is added separately in the Incumbent Detection Results table. Across UNII-5 to UNII-8, the antenna connectors loss ranges from 0.2 dB to 0.4 dB.

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Incumbent Detection Level Calculation

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 67 of 133

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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	-65.15	-1.48	-63.67	-62.0	-1.67
				6190	-65.25	-1.48	-63.77	-62.0	-1.77
	55	6225	80	6225	-65.11	-1.48	-63.63	-62.0	-1.63
				6260	-64.94	-1.48	-63.46	-62.0	-1.46
UNII Band 6	101	6455	20	6455	-65.12	-1.48	-63.64	-62.0	-1.64
				6430	-64.99	-1.48	-63.51	-62.0	-1.51
	103	6465	80	6465	-65.20	-1.48	-63.72	-62.0	-1.72
				6500	-65.22	-1.48	-63.74	-62.0	-1.74
UNII Band 7	149	6695	20	6695	-65.30	-1.48	-63.82	-62.0	-1.82
				6670	-65.25	-1.48	-63.77	-62.0	-1.77
	151	6705	80	6705	-65.32	-1.48	-63.84	-62.0	-1.84
				6740	-65.30	-1.48	-63.82	-62.0	-1.82
UNII Band 8	197	6935	20	6935	-65.12	-1.48	-63.64	-62.0	-1.64
				6910	-65.15	-1.48	-63.67	-62.0	-1.67
	199	6945	80	6945	-65.09	-1.48	-63.61	-62.0	-1.61
				6980	-65.21	-1.48	-63.73	-62.0	-1.73

Table 7-21. 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	-74.85	-64.92	-63.67
				6190	-74.95	-65.02	-63.77
	55	6225	80	6225	-74.81	-64.88	-63.63
				6260	-74.64	-64.71	-63.46
UNII Band 6	101	6455	20	6455	-74.82	-64.89	-63.64
				6430	-74.69	-64.76	-63.51
	103	6465	80	6465	-74.90	-64.97	-63.72
				6500	-74.92	-64.99	-63.74
UNII Band 7	149	6695	20	6695	-74.80	-65.04	-63.82
				6670	-74.75	-64.99	-63.77
	151	6705	80	6705	-74.82	-65.06	-63.84
				6740	-74.80	-65.04	-63.82
UNII Band 8	197	6935	20	6935	-74.62	-64.86	-63.64
				6910	-74.65	-64.89	-63.67
	199	6945	80	6945	-74.59	-64.83	-63.61
				6980	-74.71	-64.95	-63.73

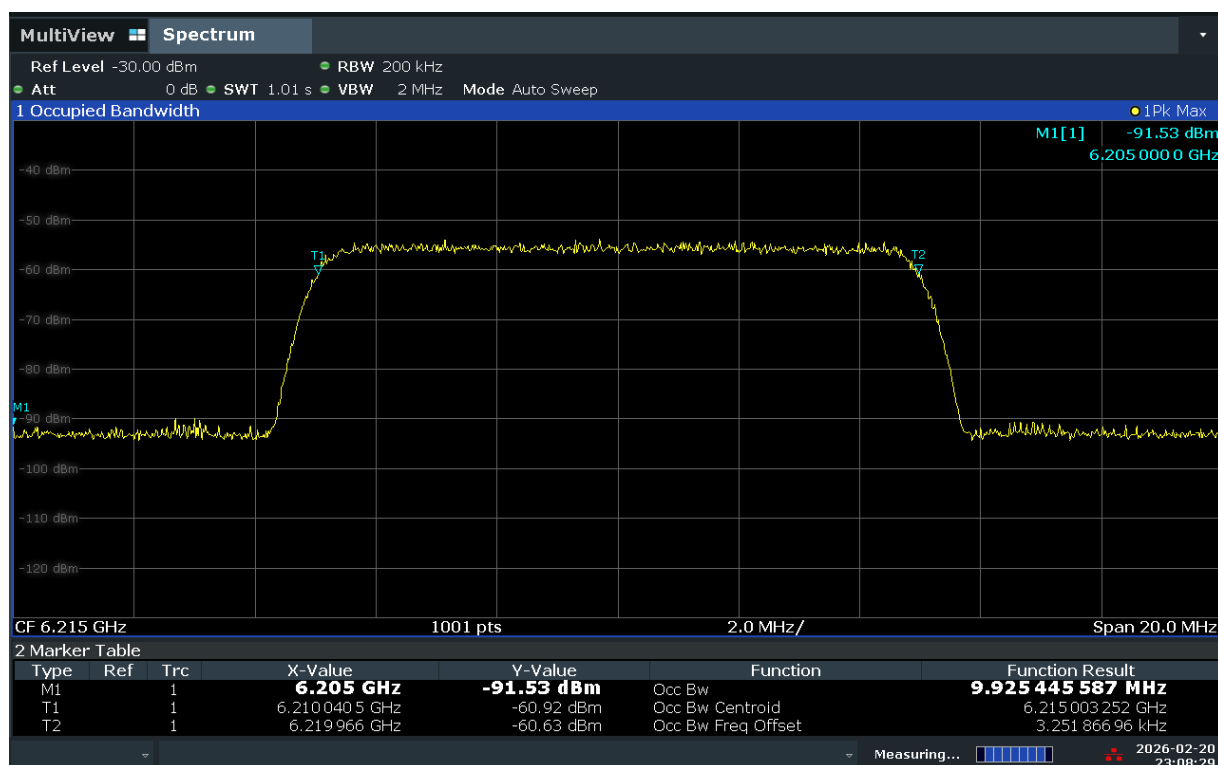
Table 7-22. Contention Based Protocol VLP – Detection Results – All Tx Cases

CBP Detection (1 = Detection, Blank = No Detection)																					
and	Channel	Channel Frequenc y [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detectio n Rate [%]	Limit [%]	Pass/Fai l
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	55	6225	80	1	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	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	103	6465	80	1	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	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	151	6705	80	1	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	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	199	6945	80	1	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	1	1	100.0	90

Table 7-23. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 68 of 133

AWGN Plot



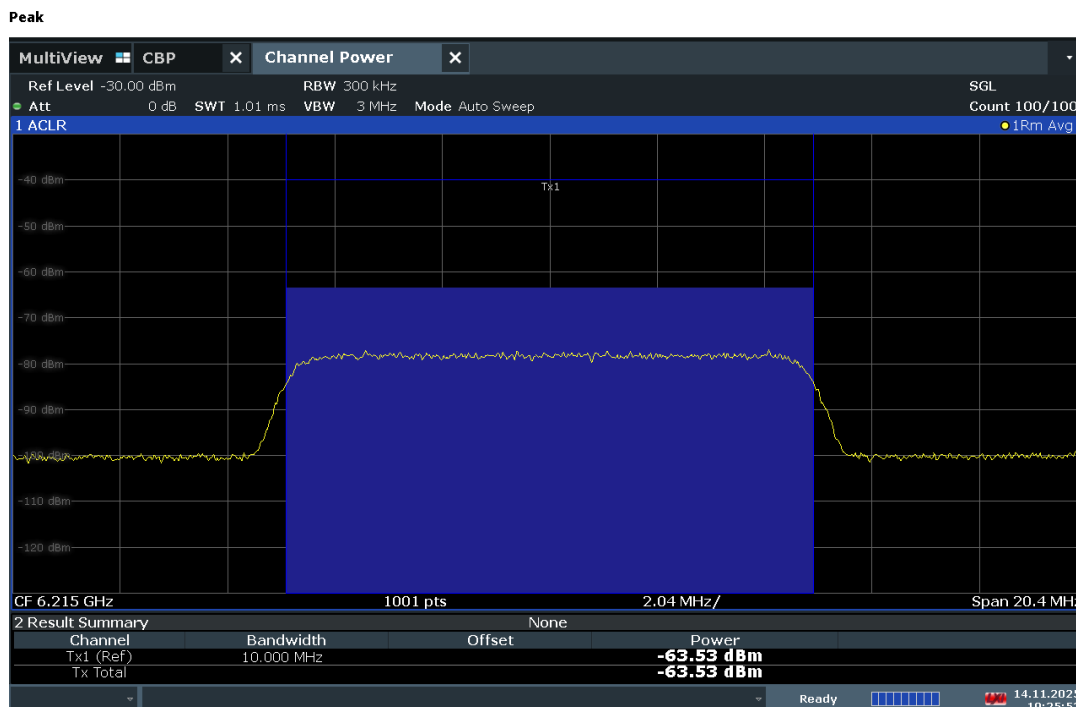
Plot 7-121. AWGN Signal – UNII 5 – 20MHz

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 69 of 133

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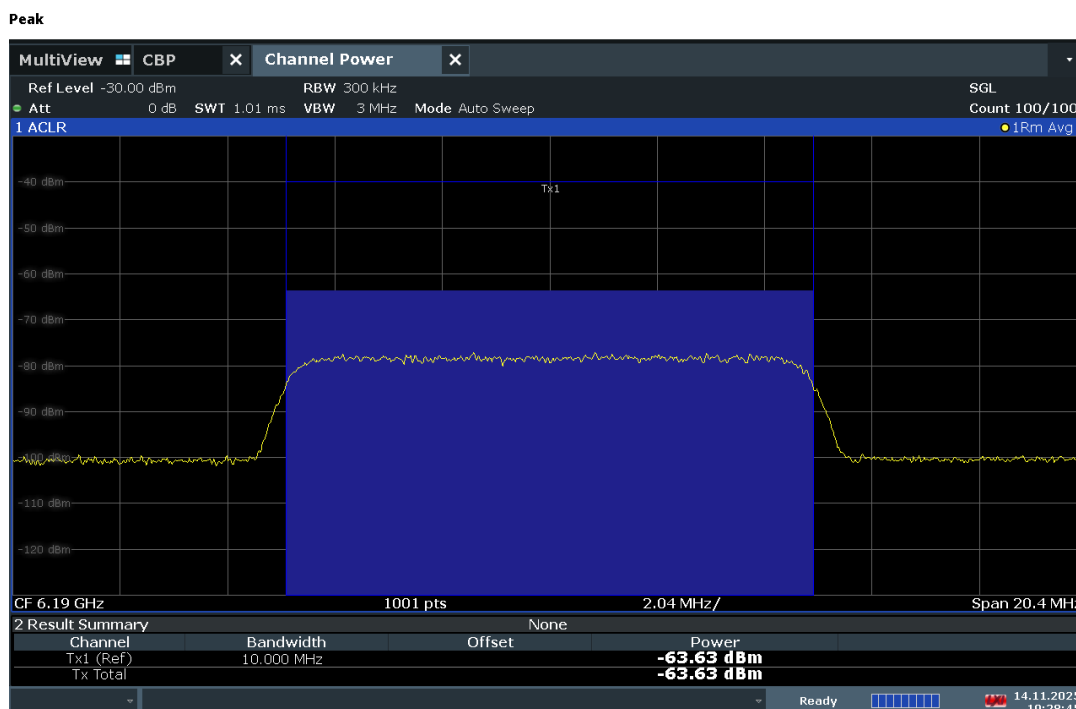
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Channel Power Plots



19:25:52 14.11.2025

Plot 7-122. Channel Power – UNII 5 – 20MHz



19:28:46 14.11.2025

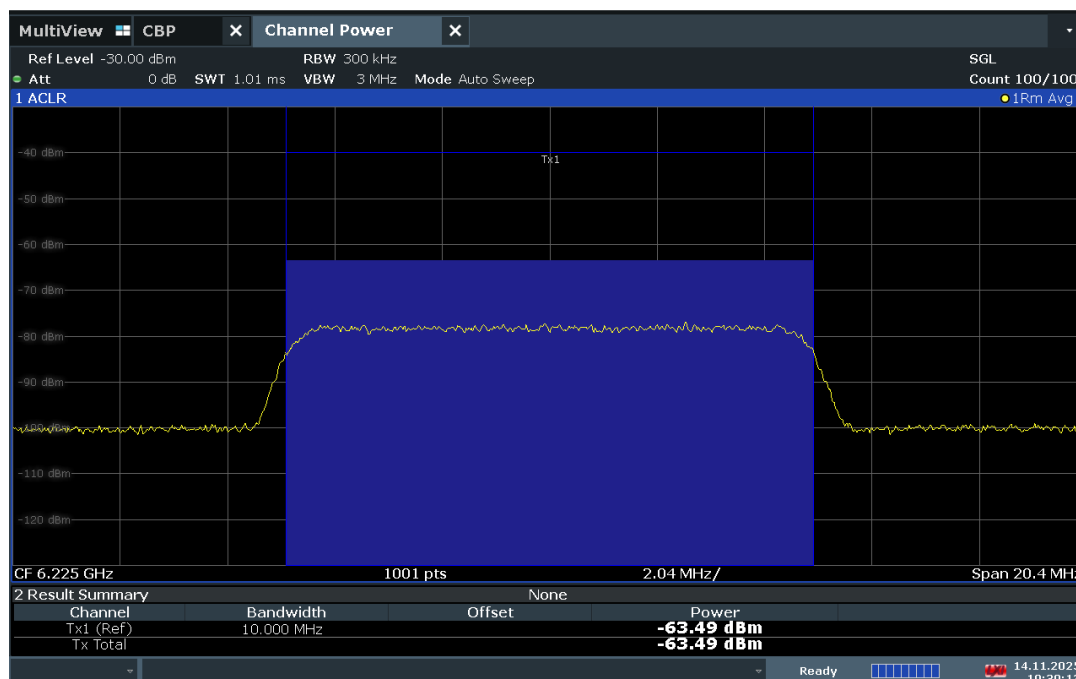
Plot 7-123. Channel Power – UNII 5 – 80MHz - Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 70 of 133

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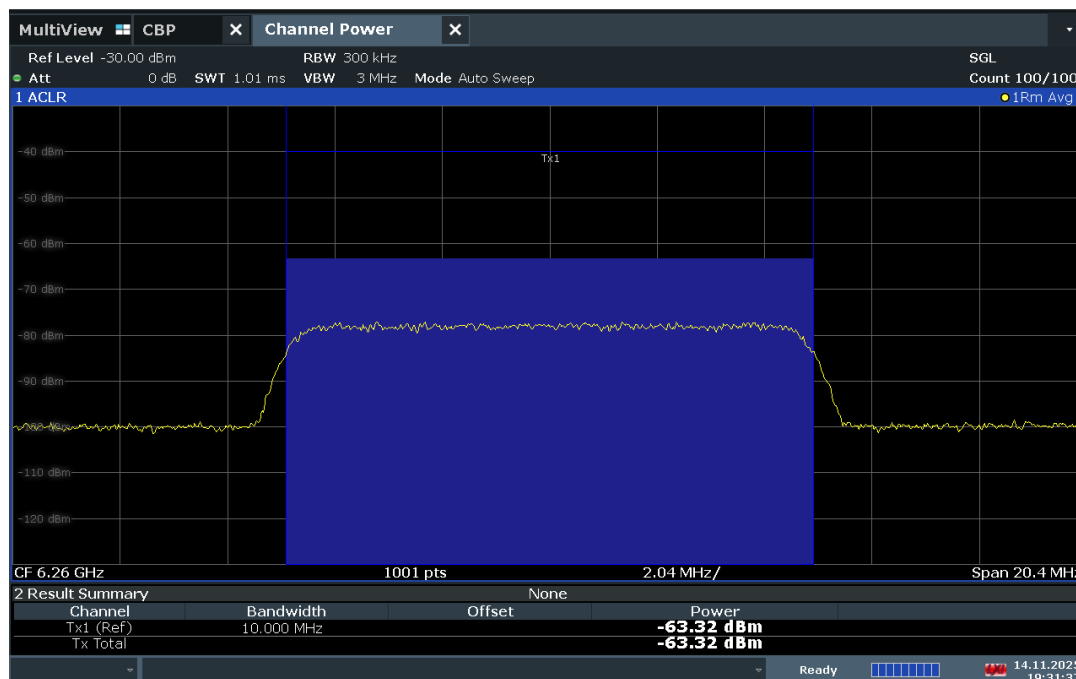
Peak



19:30:14 14.11.2025

Plot 7-124. Channel Power – UNII 5 – 80MHz – Mid

Peak



19:31:38 14.11.2025

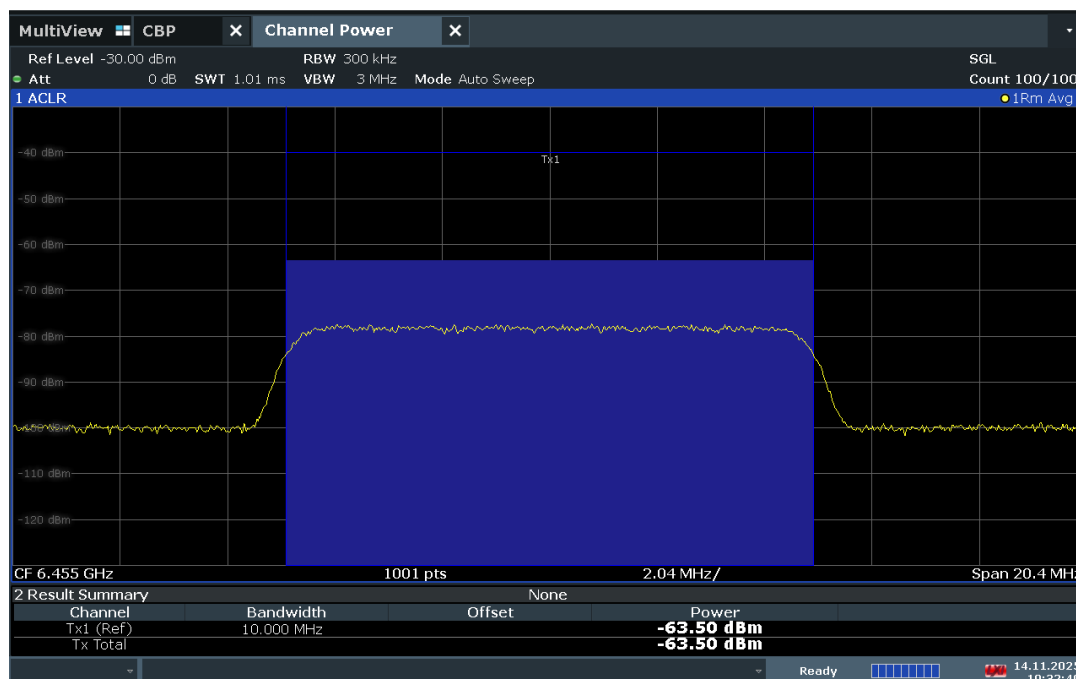
Plot 7-125. Channel Power – UNII 5 – 80MHz - High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 71 of 133

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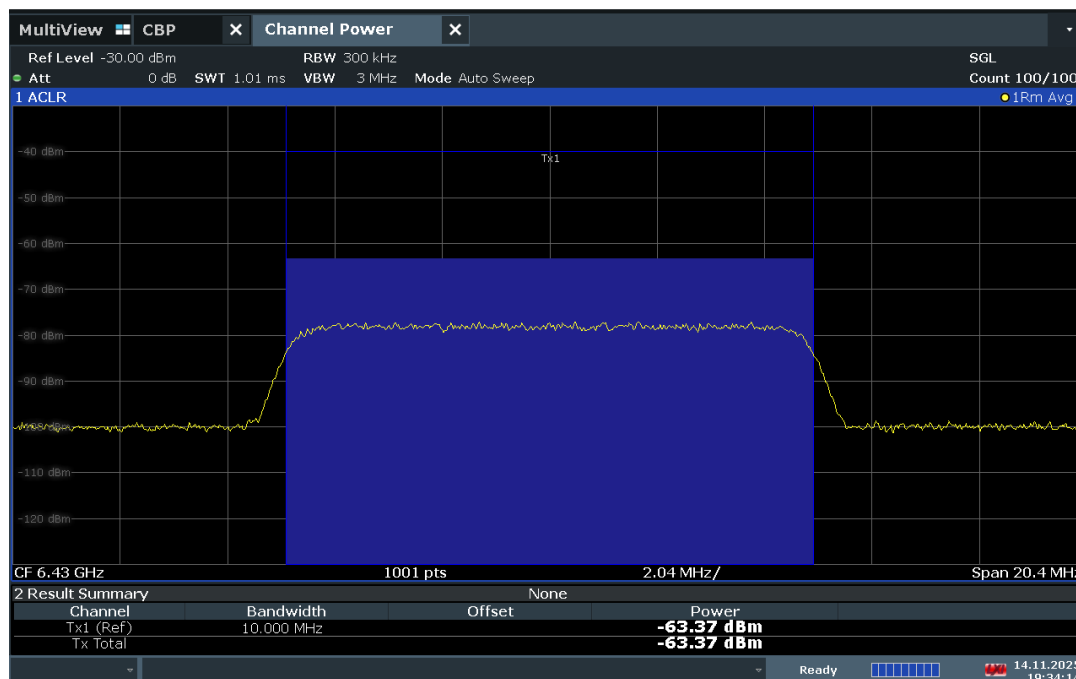
Peak



19:32:50 14.11.2025

Plot 7-126. Channel Power – UNII 6 – 20MHz

Peak



19:34:14 14.11.2025

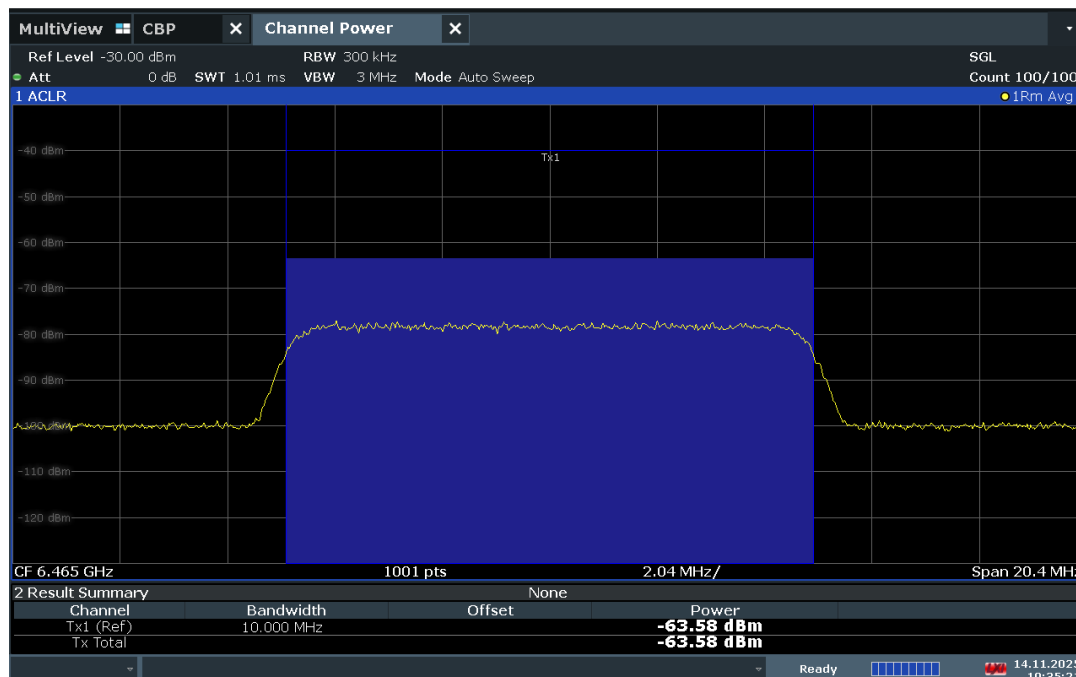
Plot 7-127. Channel Power – UNII 6 – 80MHz - Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 72 of 133

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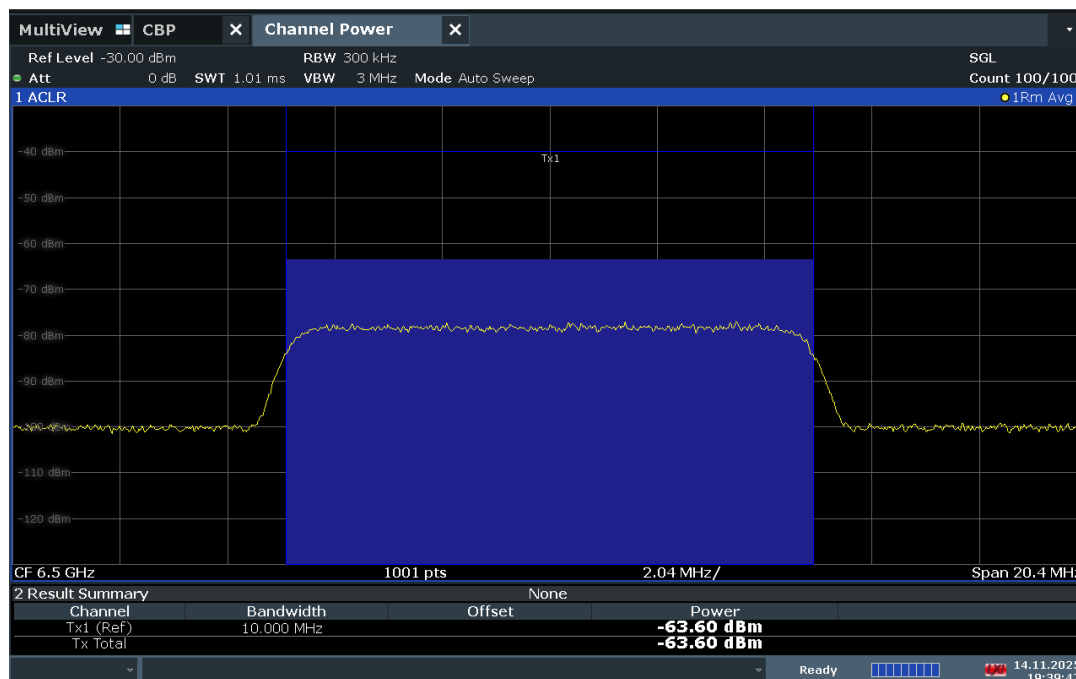
Peak



19:35:22 14.11.2025

Plot 7-128. Channel Power – UNII 6 – 80MHz – Mid

Peak



19:39:47 14.11.2025

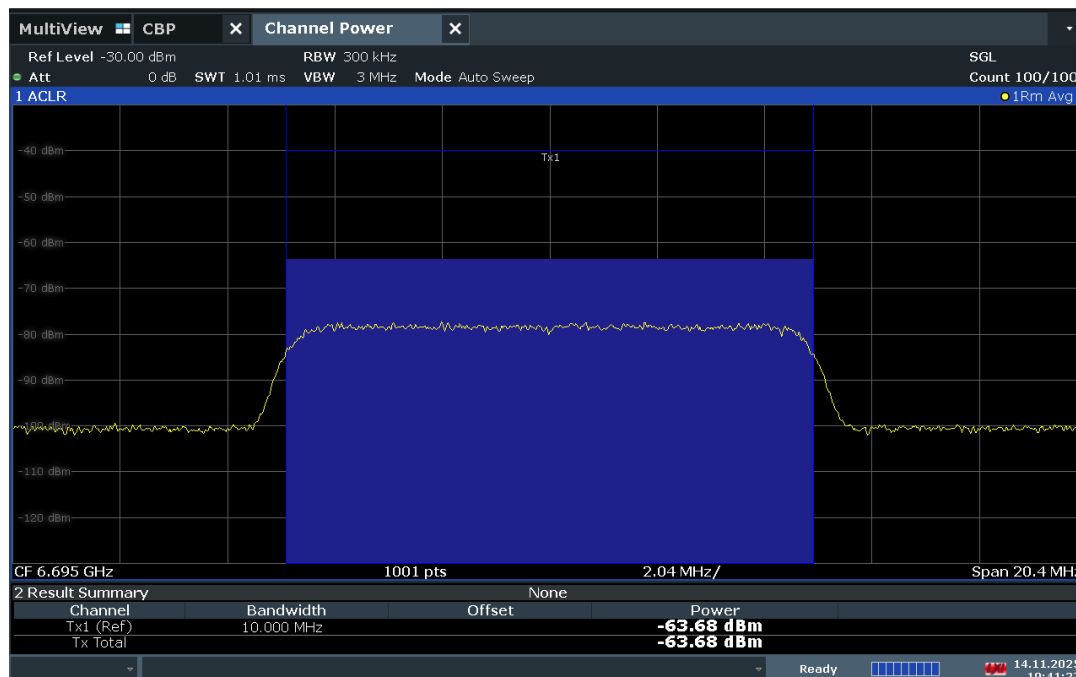
Plot 7-129. Channel Power – UNII 6 – 80MHz - High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 73 of 133

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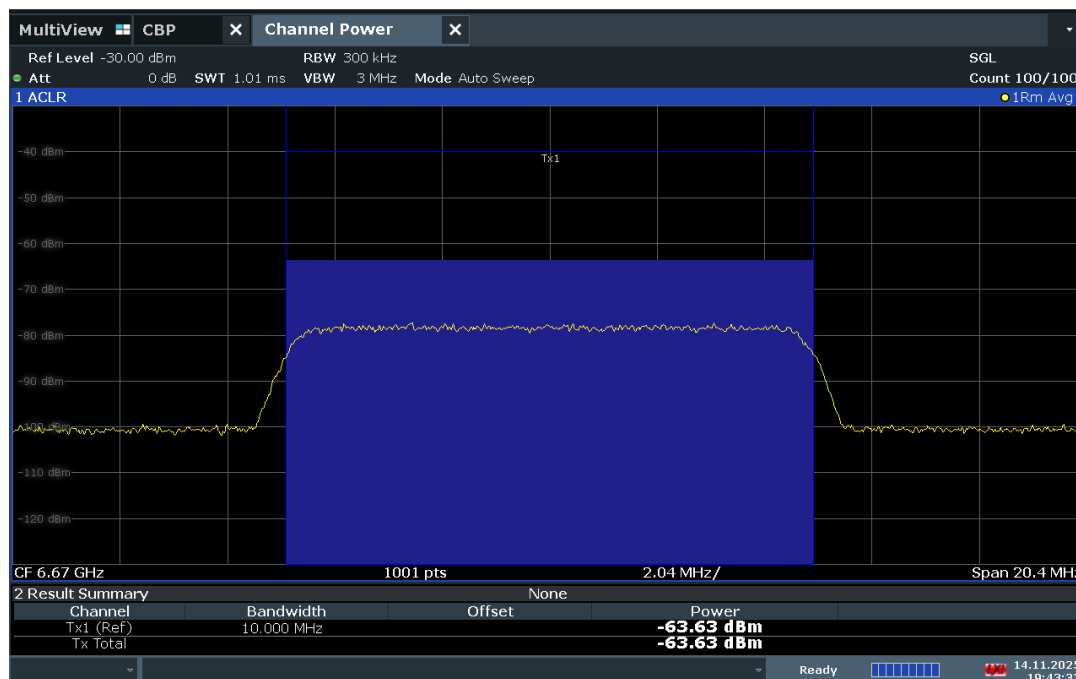
Peak



19:41:27 14.11.2025

Plot 7-130. Channel Power – UNII 7 – 20MHz

Peak



19:43:33 14.11.2025

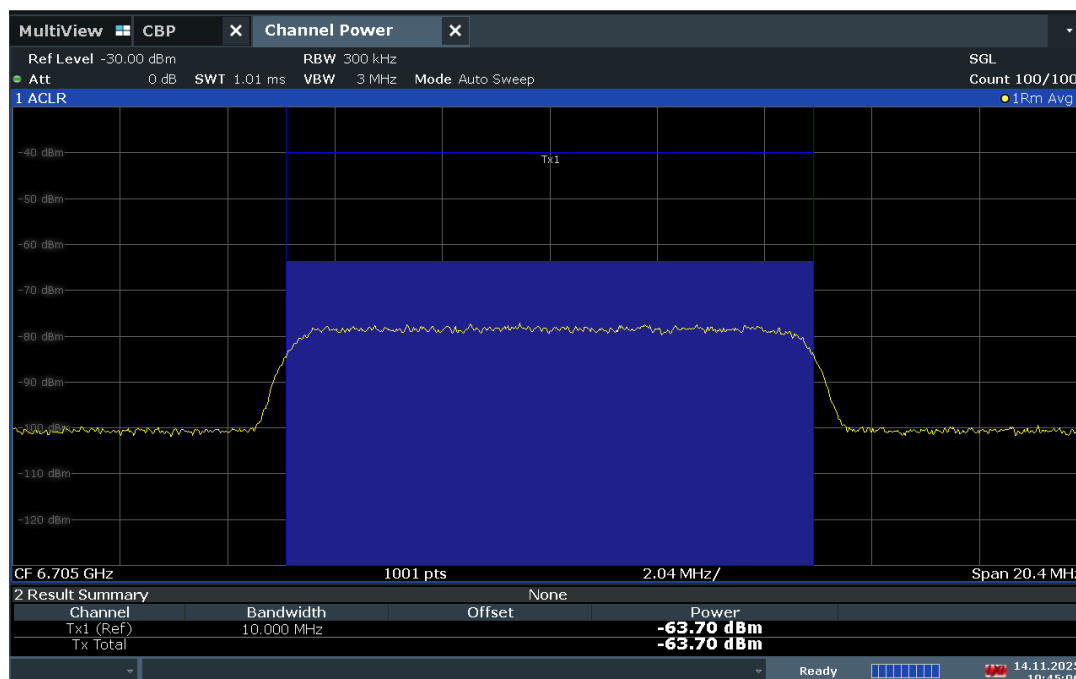
Plot 7-131. Channel Power – UNII 7 – 80MHz - Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 74 of 133

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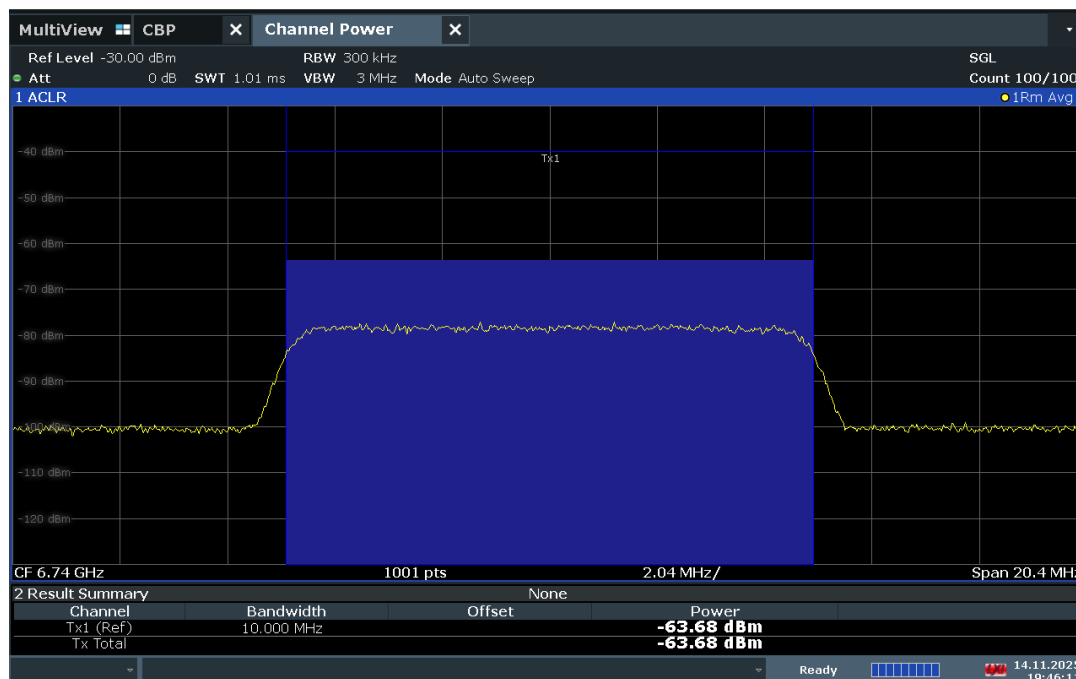
Peak



19:45:06 14.11.2025

Plot 7-132. Channel Power – UNII 7 – 80MHz – Mid

Peak



19:46:12 14.11.2025

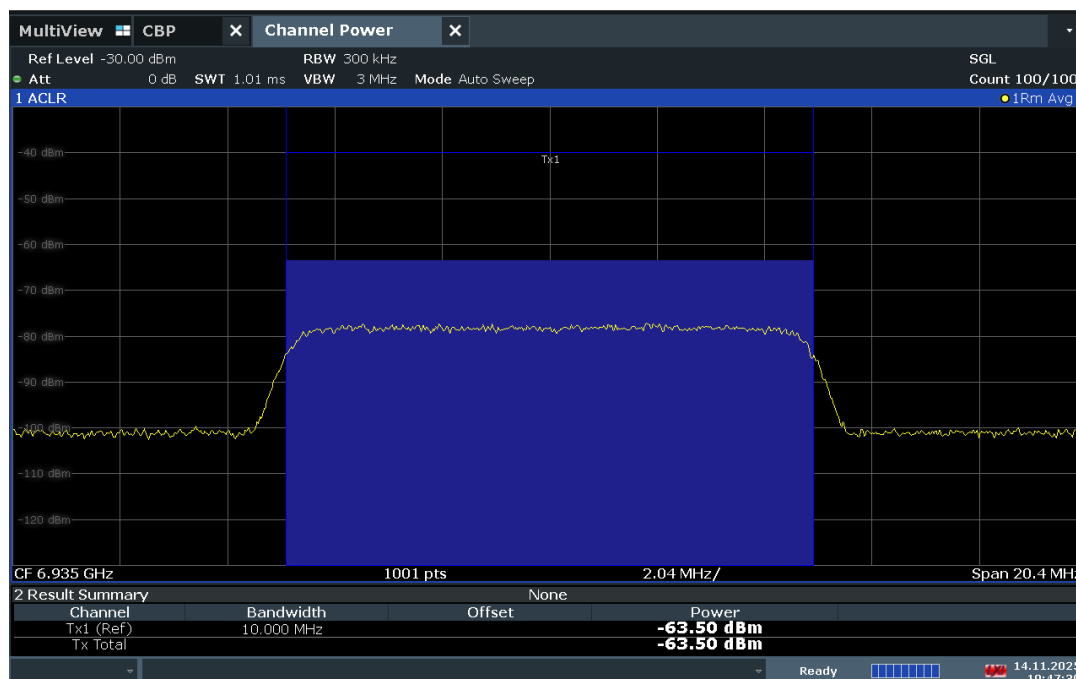
Plot 7-133. Channel Power – UNII 7 – 80MHz - High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 75 of 133

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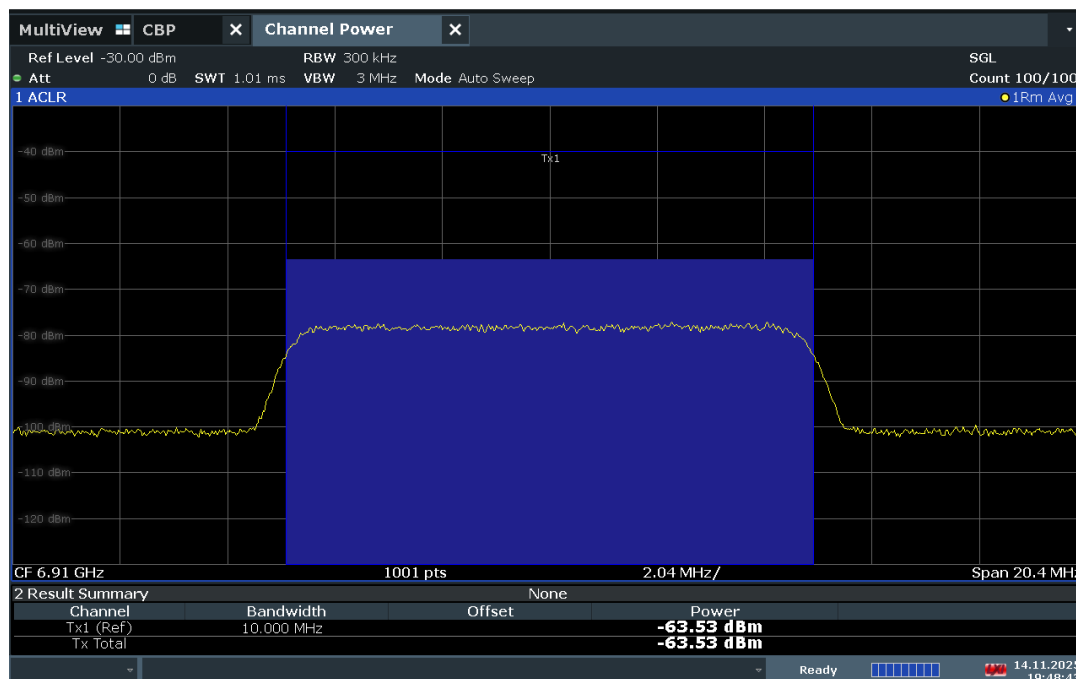
Peak



19:47:30 14.11.2025

Plot 7-134. Channel Power – UNII 8 – 20MHz

Peak



19:48:43 14.11.2025

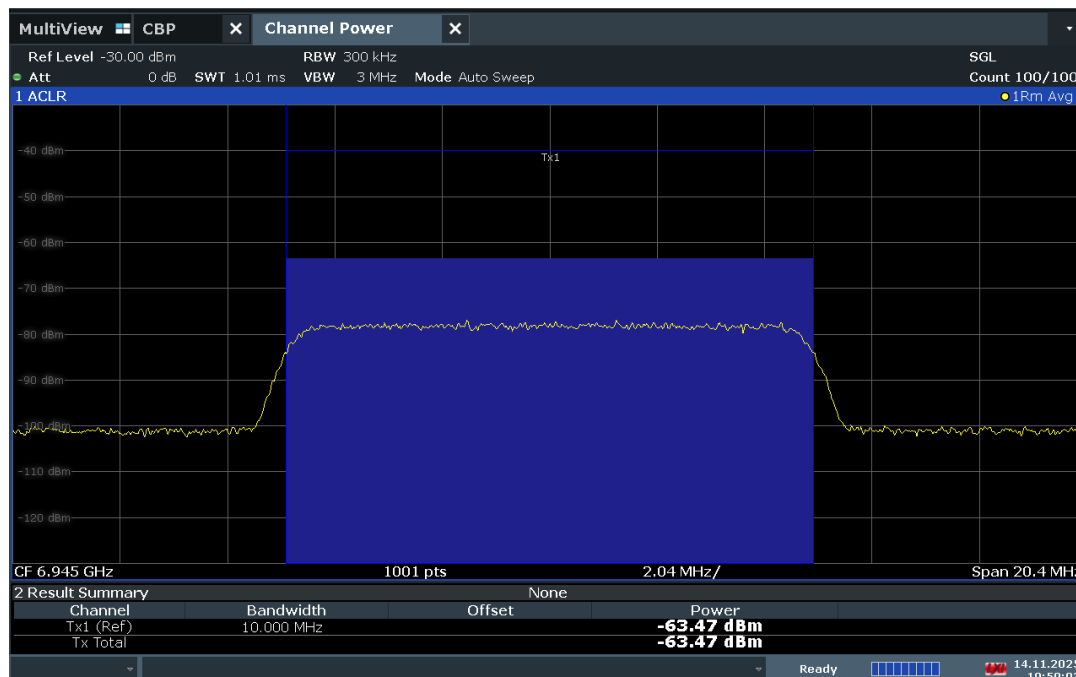
Plot 7-135. Channel Power – UNII 8 – 80MHz - Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 76 of 133

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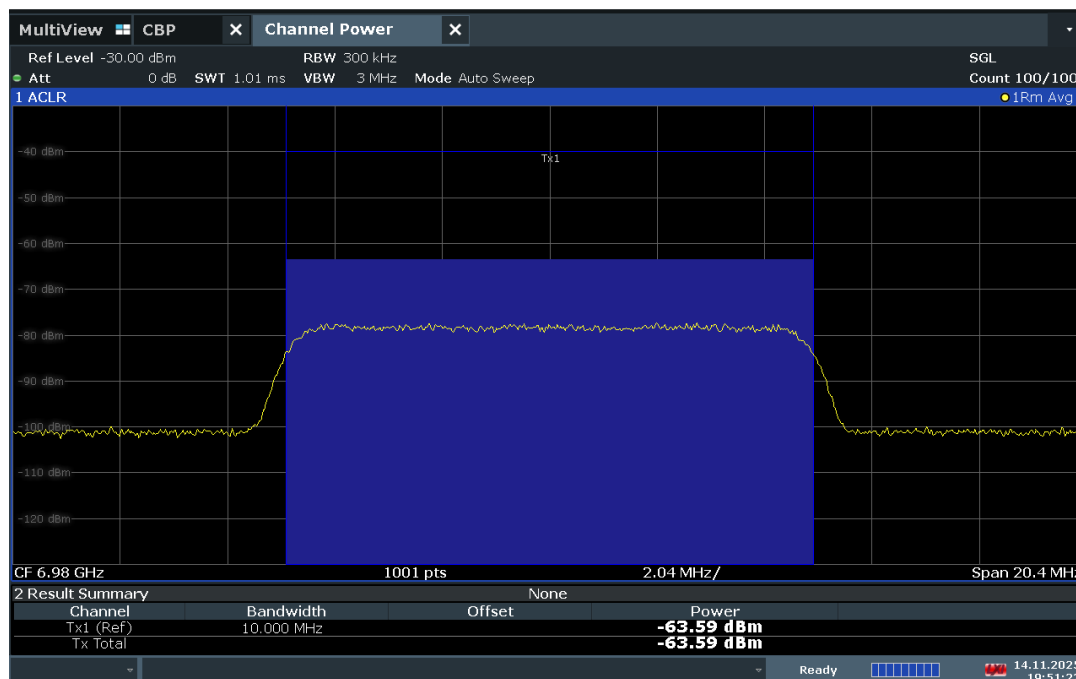
Peak



19:50:03 14.11.2025

Plot 7-136. Channel Power – UNII 8 – 80MHz – Mid

Peak



19:51:22 14.11.2025

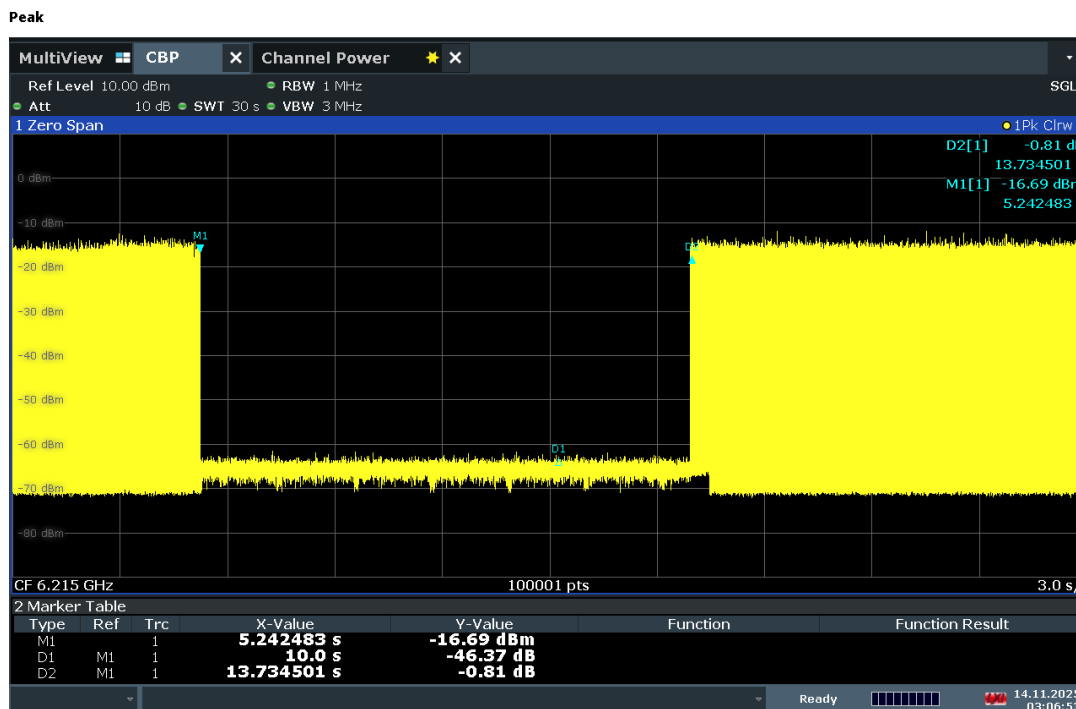
Plot 7-137. Channel Power – UNII 8 – 80MHz - High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 77 of 133

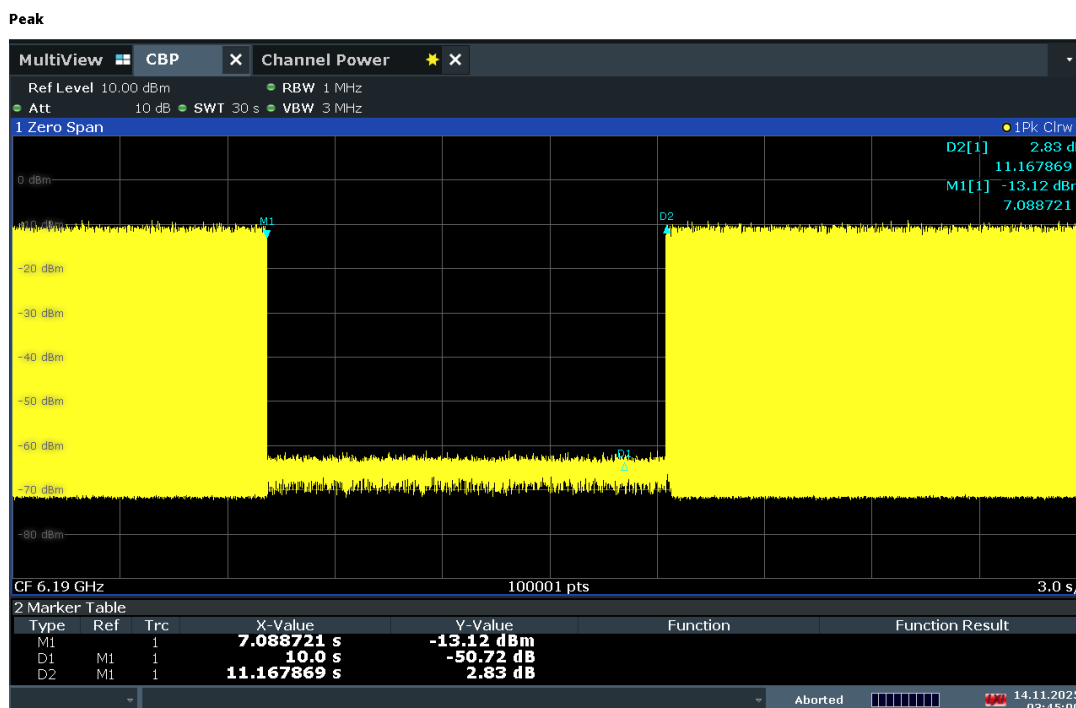
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Contention-Based Protocol Timing Plots



Plot 7-138. Contention Based Protocol Timing Plot – UNII 5 – 20MHz Channel 53



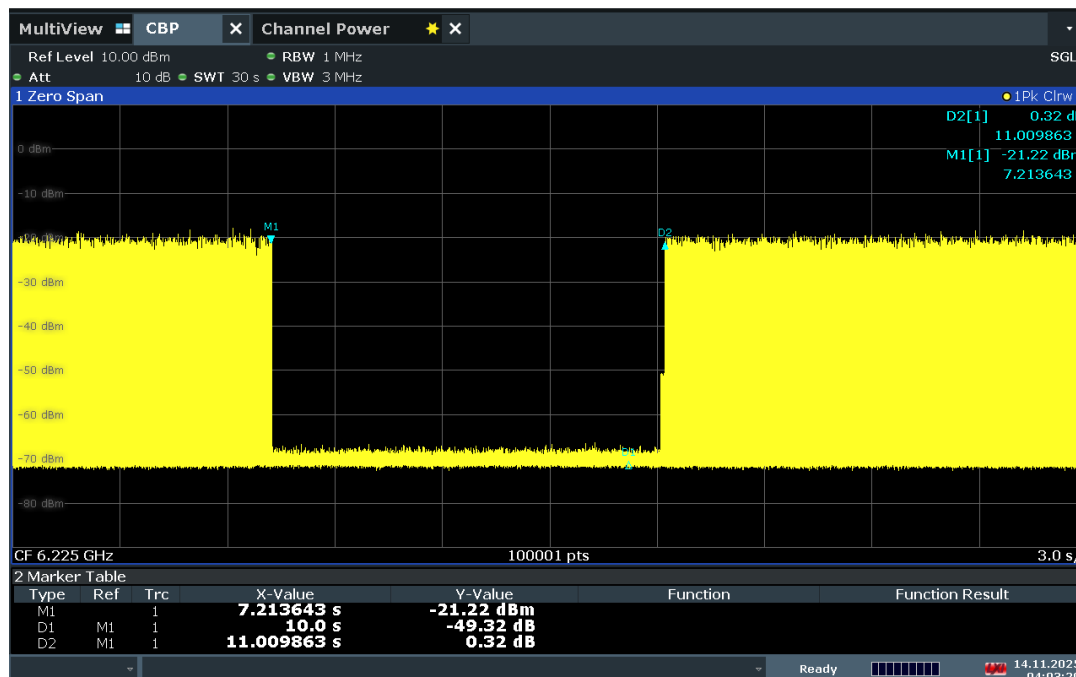
Plot 7-139. Contention Based Protocol Timing Plot – UNII 5 – 80MHz Channel 55 – Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 78 of 133

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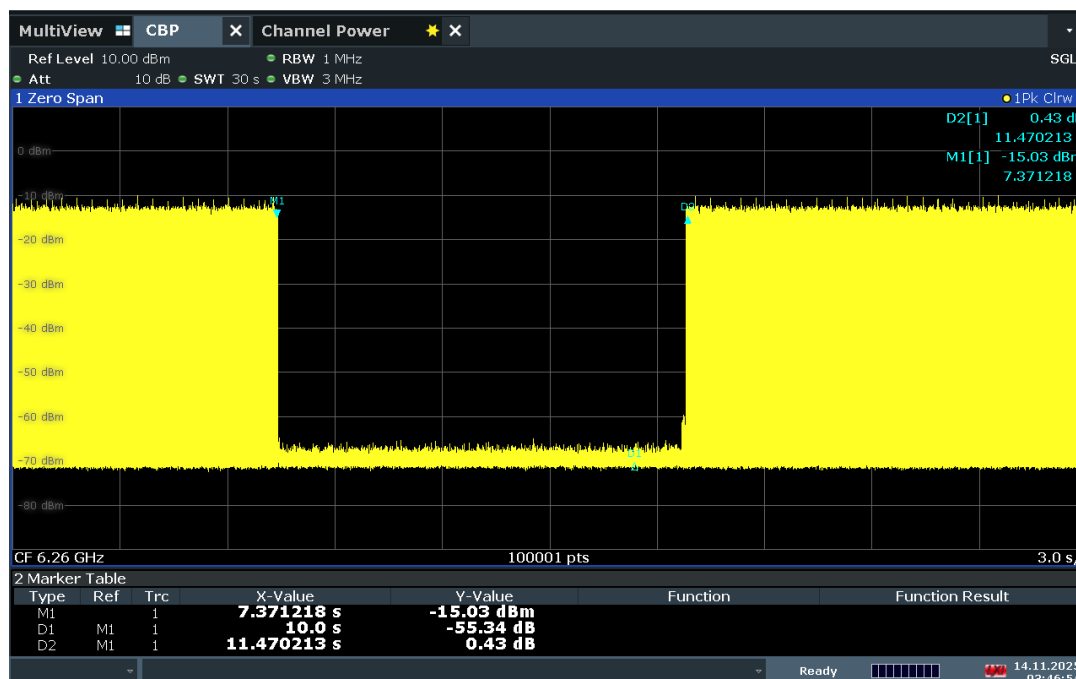
Peak



04:03:20 14.11.2025

Plot 7-140. Contention Based Protocol Timing Plot –UNII 5 – 80MHz Channel 55 – Mid

Peak



03:46:54 14.11.2025

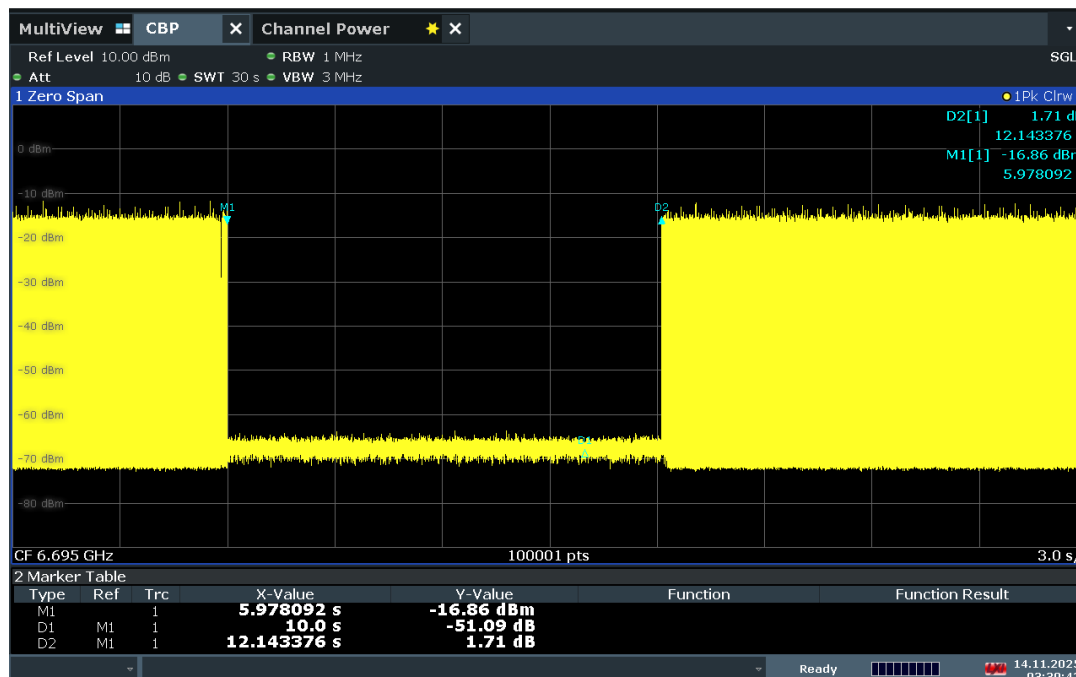
Plot 7-141. Contention Based Protocol Timing Plot – UNII 5 – 80MHz Channel 55 – High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 79 of 133

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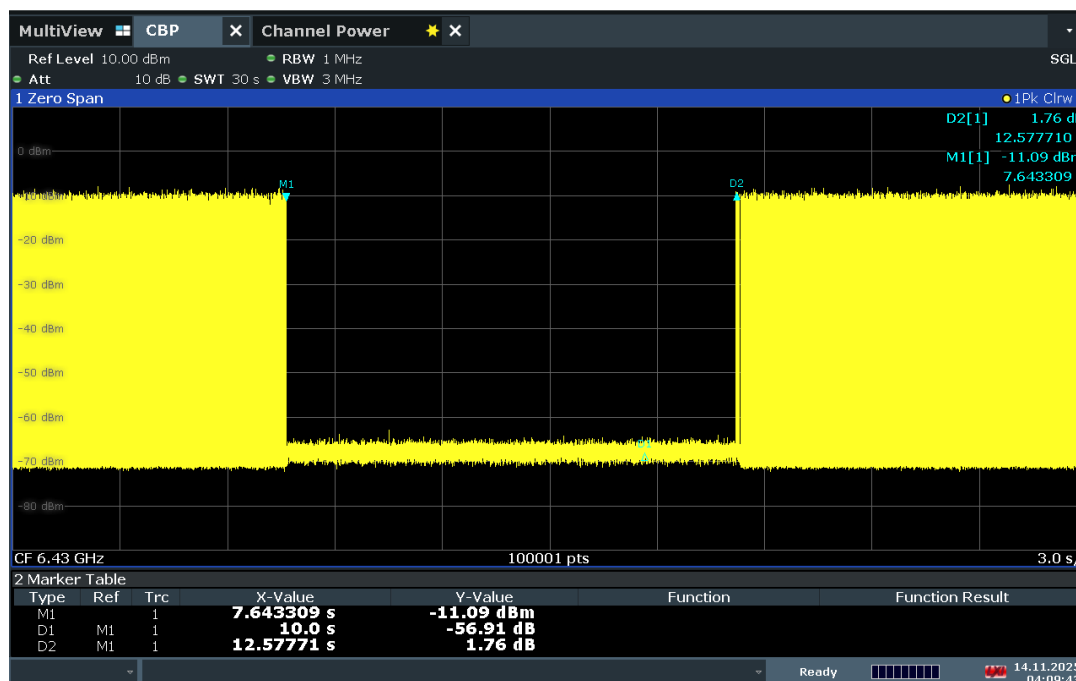
Peak



03:30:42 14.11.2025

Plot 7-142. Contention Based Protocol Timing Plot – UNII 6 – 20MHz Channel 101

Peak



04:09:44 14.11.2025

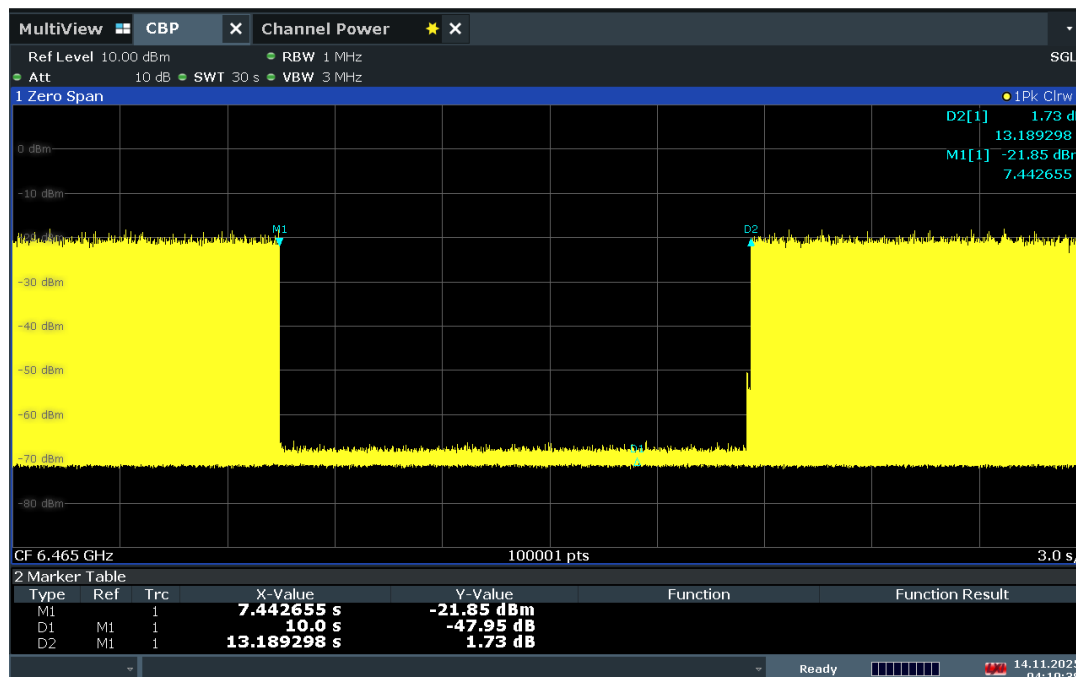
Plot 7-143. Contention Based Protocol Timing Plot – UNII 6 – 80MHz Channel 103 – Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 80 of 133

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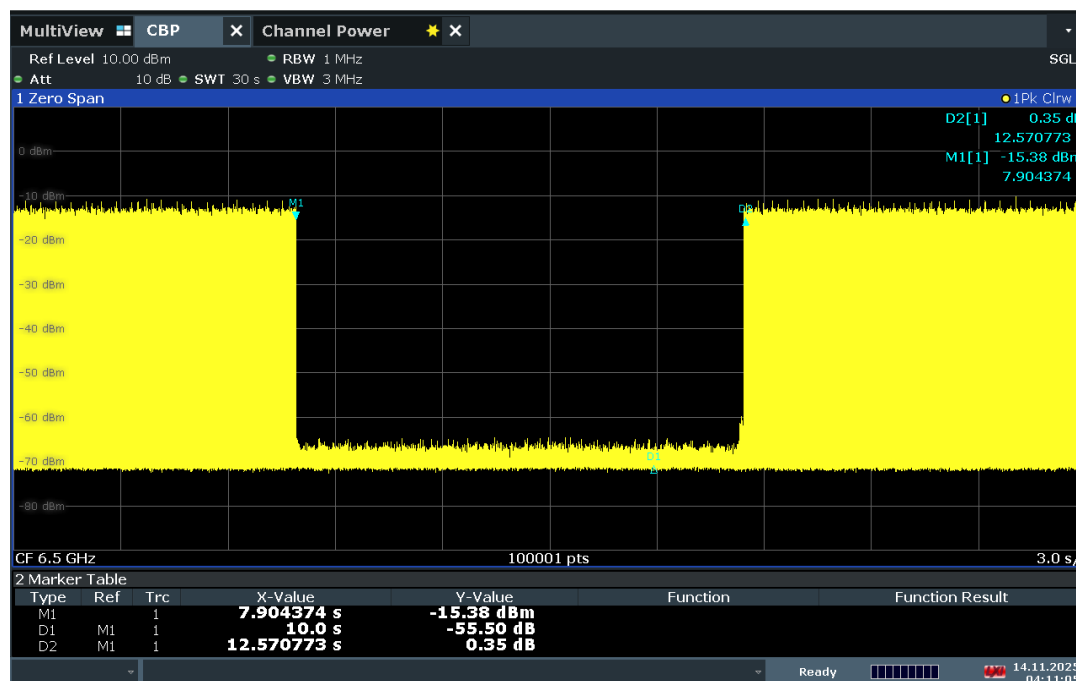
Peak



04:19:38 14.11.2025

Plot 7-144. Contention Based Protocol Timing Plot – UNII 6 – 80MHz Channel 103 – Mid

Peak



04:11:06 14.11.2025

Plot 7-145. Contention Based Protocol Timing Plot – UNII 6 – 80MHz Channel 103 – High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 81 of 133

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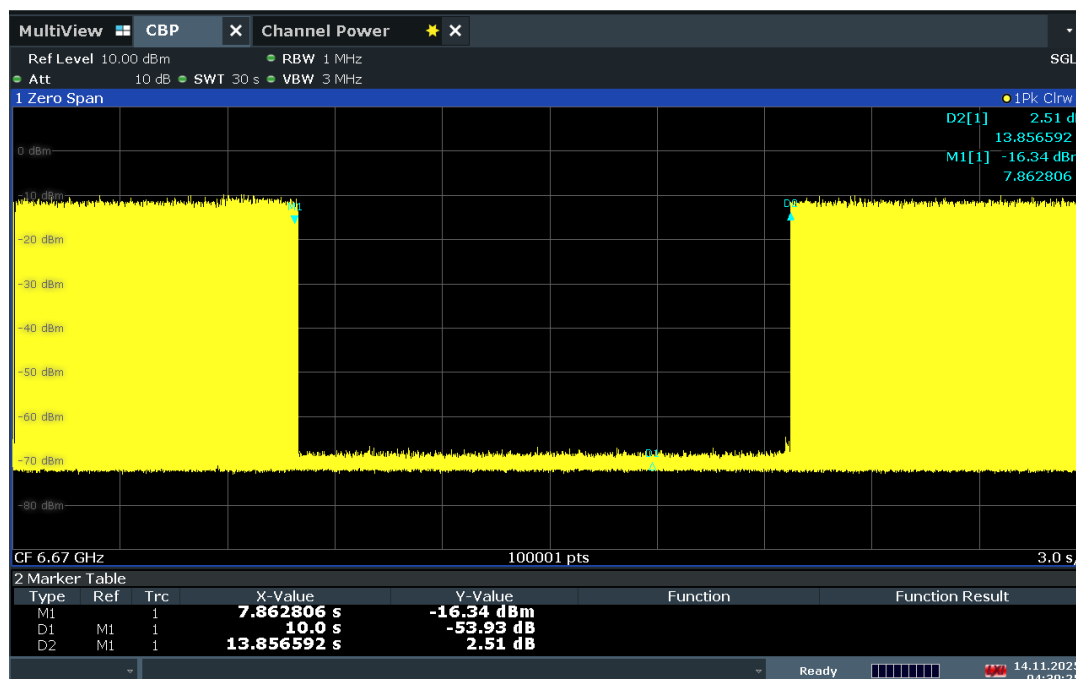
Peak



03:36:10 14.11.2025

Plot 7-146. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Channel 149

Peak



04:30:26 14.11.2025

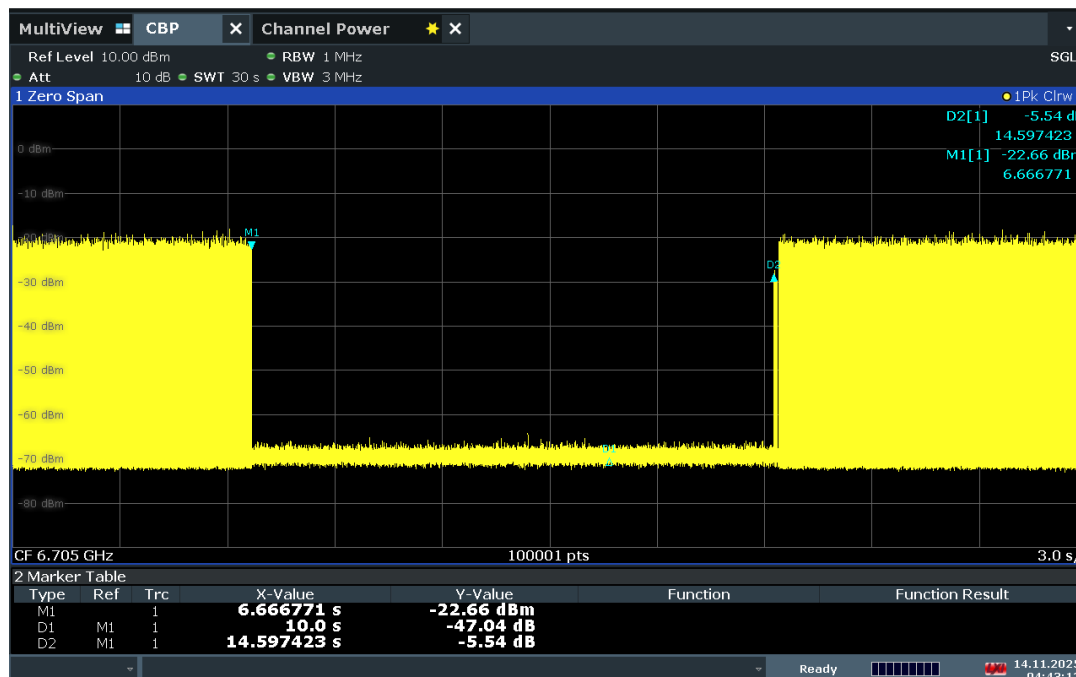
Plot 7-147. Contention Based Protocol Timing Plot – UNII 7 – 80MHz Channel 151 – Low

FCC ID: BCGA3374 IC: 579C-A3374	element	Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 82 of 133

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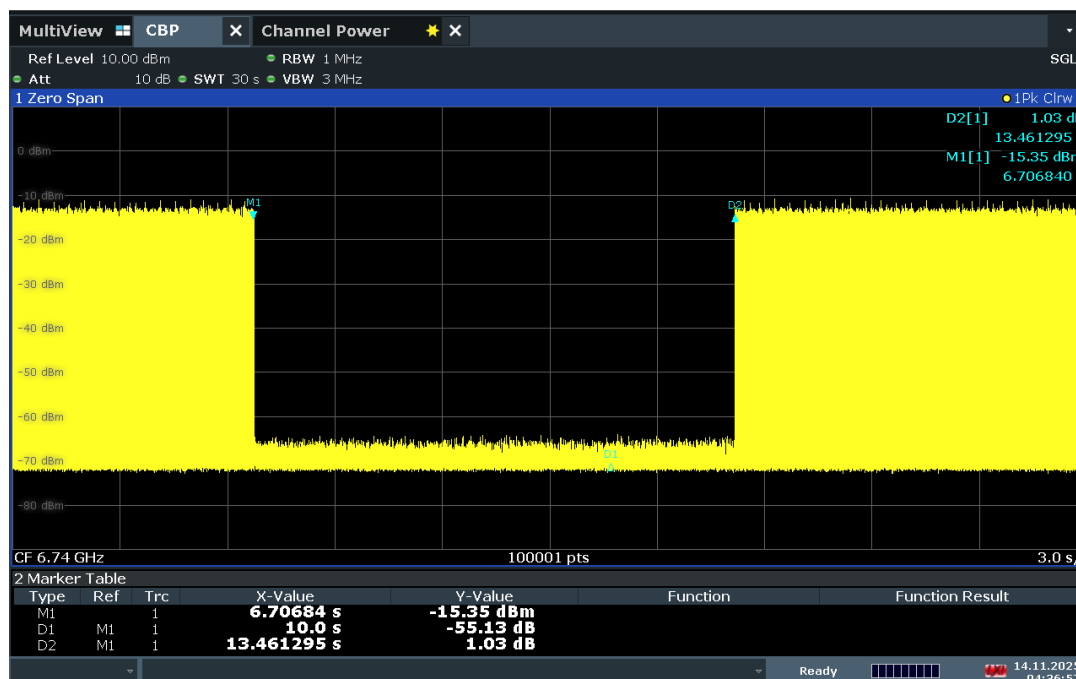
Peak



04:43:12 14.11.2025

Plot 7-148. Contention Based Protocol Timing Plot – UNII 7 – 80MHz Channel 151 – Mid

Peak



04:36:58 14.11.2025

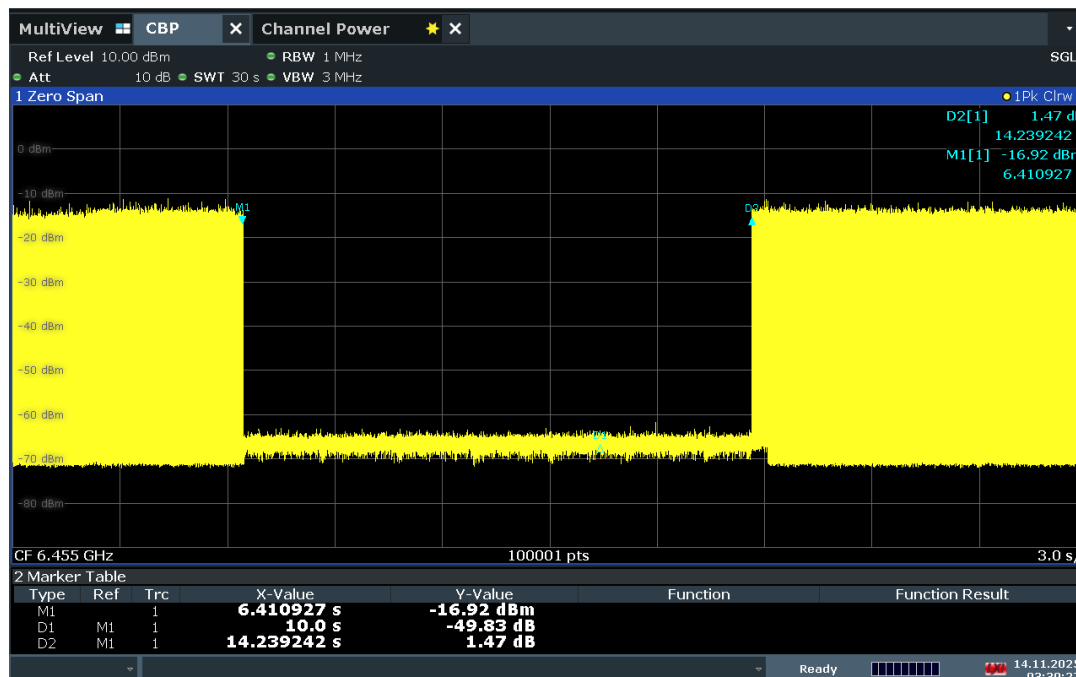
Plot 7-149. Contention Based Protocol Timing Plot – UNII 7 – 80MHz Channel 151 – High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 83 of 133

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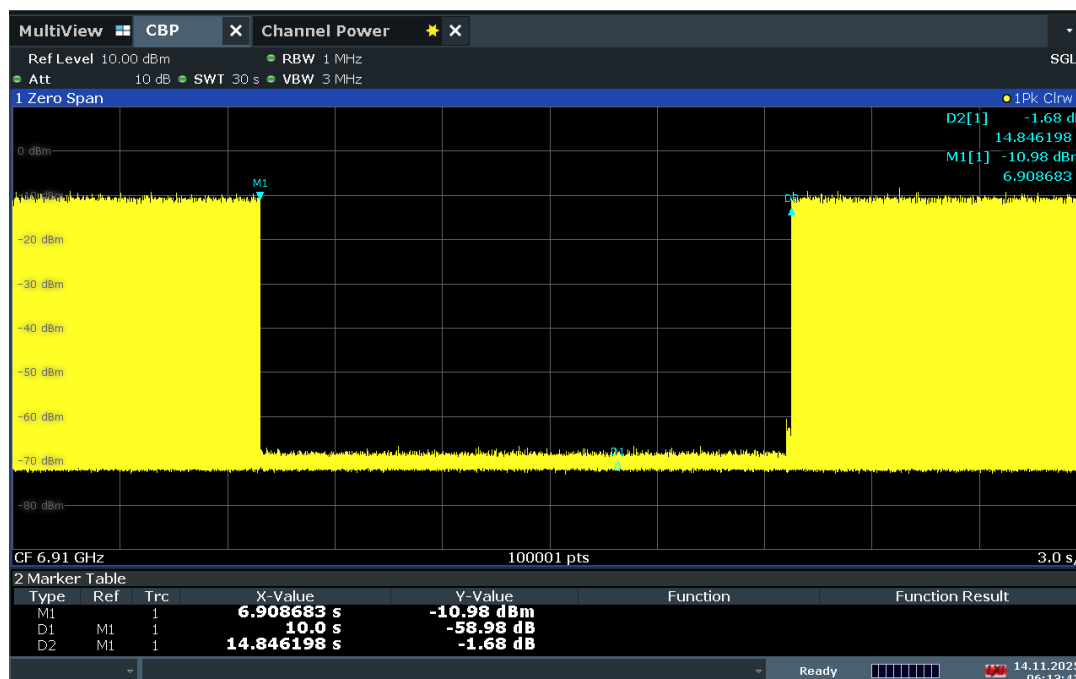
Peak



03:39:27 14.11.2025

Plot 7-150. Contention Based Protocol Timing Plot – UNII 8 – 20MHz Channel 197

Peak



06:13:44 14.11.2025

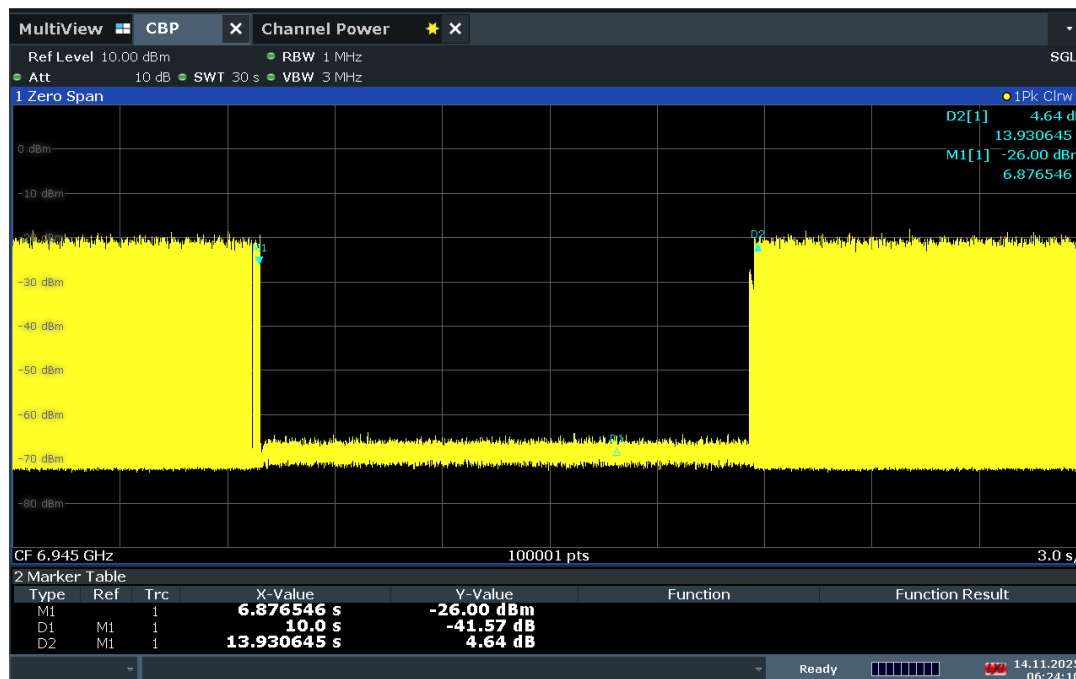
Plot 7-151. Contention Based Protocol Timing Plot – UNII 8 – 80MHz Channel 199 – Low

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 84 of 133

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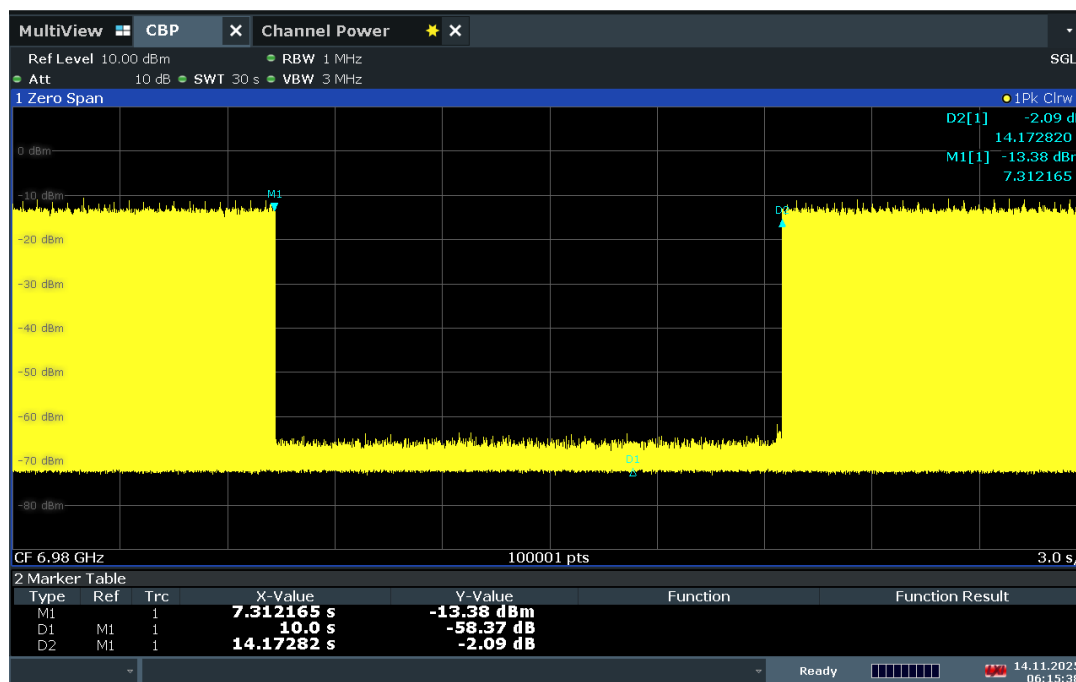
Peak



06:24:11 14.11.2025

Plot 7-152. Contention Based Protocol Timing Plot – UNII 8 – 80MHz Channel 199 – Mid

Peak



06:15:38 14.11.2025

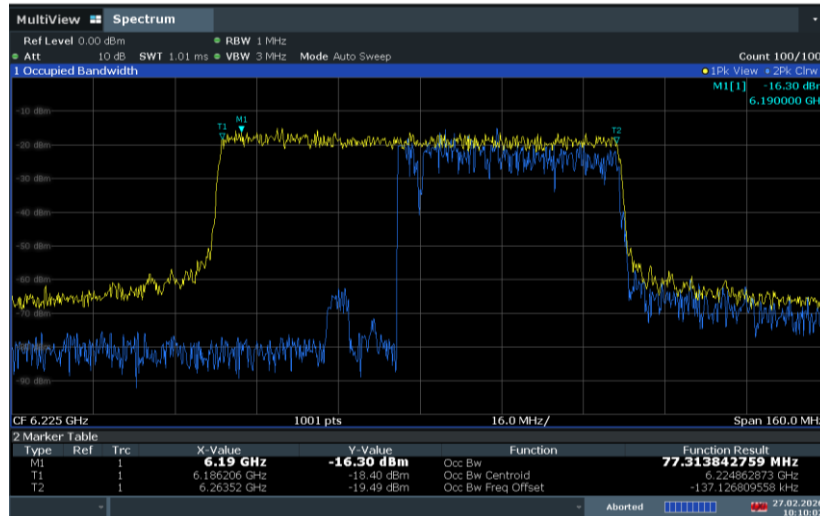
Plot 7-153. Contention Based Protocol Timing Plot – UNII 8 – 80MHz Channel 199 – High

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 85 of 133

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Bandwidth Reduction Plots



Plot 7-154. 80MHz Bandwidth, AWGN Signal Injected – 6190MHz



Plot 7-155. 80MHz Bandwidth, AWGN Signal Injected – 6225MHz



Plot 7-156. 80MHz Bandwidth, AWGN Signal Injected – 6260MHz

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 86 of 133

7.7 Transmit Power Control (TPC)

Test Overview and Limit

Very low power devices operating in the 5.925-7.125 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 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – 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 $\geq 2 \times \text{span} / \text{RBW}$.
7. Sweep time $\leq (\text{number of points in sweep}) \times T$, 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.

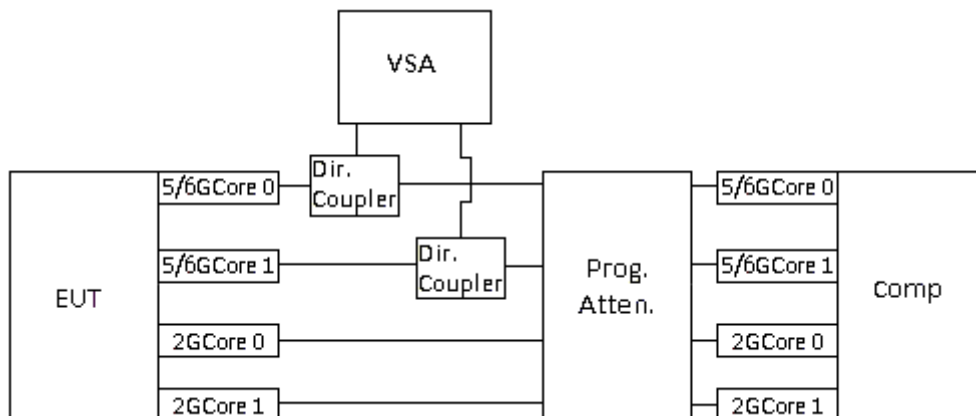


Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		

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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: A3330 (refer to Table 2-9)
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.

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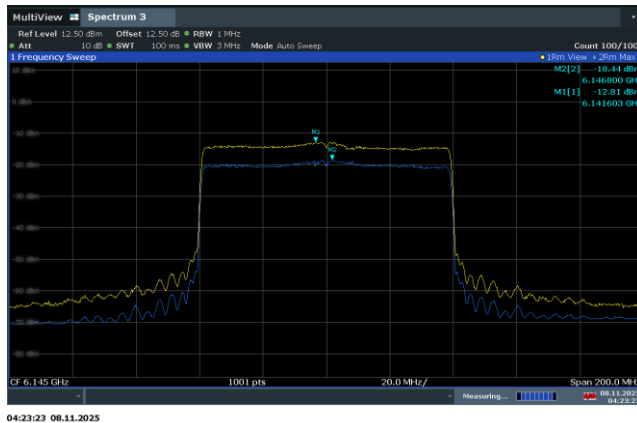
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BW [MHz]	Frequency [MHz]	MIMO		Summed Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]
		Measured Power Density [dBm/MHz]					
		Antenna 0	Antenna 1				
80	6145	-12.81	-12.9	-9.84	0.45	-9.40	-5.00

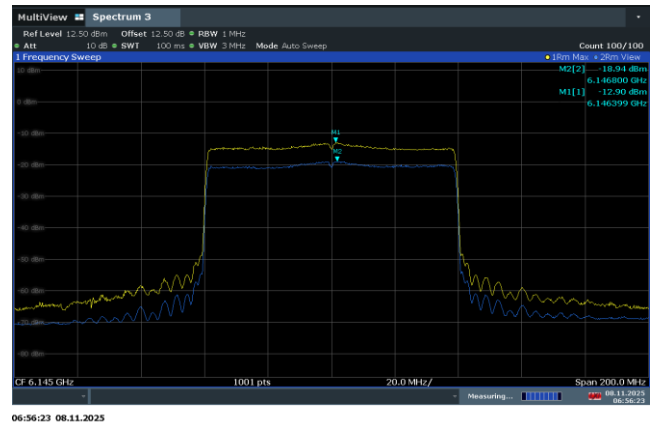
Table 7-24. PSD Measurements (No TPC)

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]
		Measured Power Density [dBm/MHz]					
		Antenna 0	Antenna 1				
80	6145	-18.44	-18.94	-15.67	0.45	-15.22	-11.00

Table 7-25. PSD Measurements (with TPC)



Plot 7-157. 80MHz Bandwidth – 6145MHz Antenna 1



Plot 7-158. 80MHz Bandwidth – 6145MHz Antenna 2

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