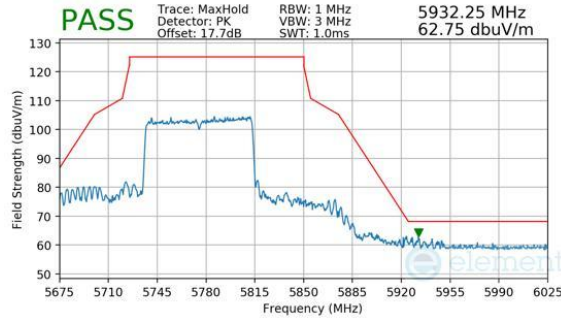
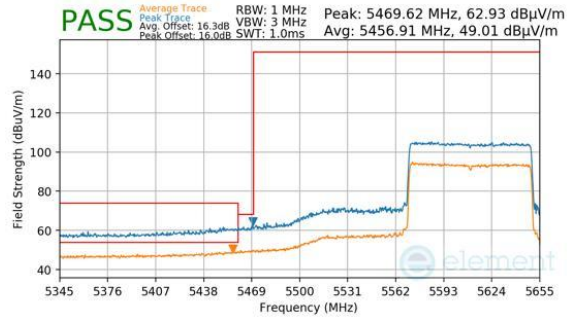
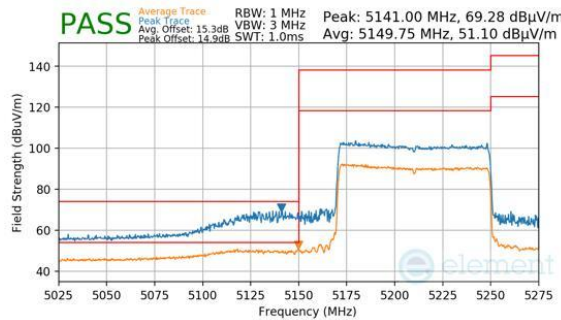




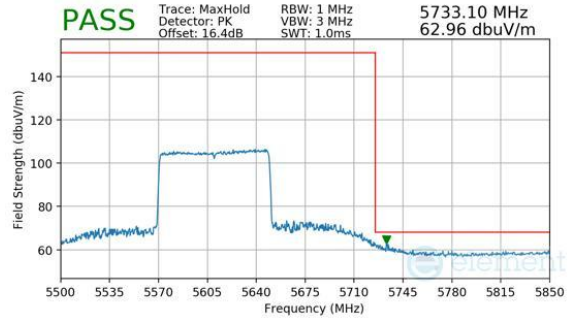
Plot 7-231. Antenna 1 (Peak, Ch.155, 802.11ac, MCS8)



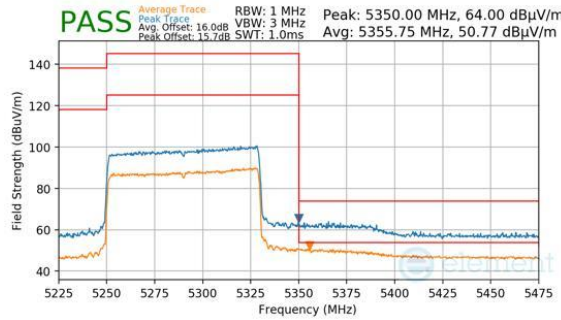
Plot 7-235. Antenna 1 (Peak & Average, Ch.122, 802.11ax(SU), MCS11)



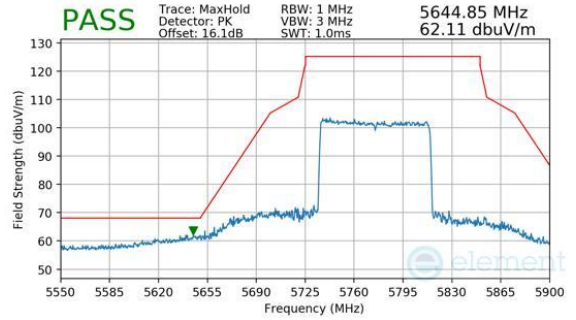
Plot 7-232. Antenna 1 (Peak & Average, Ch.42, 802.11ax(SU), MCS11)



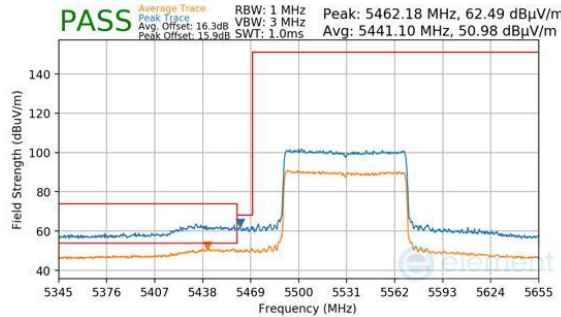
Plot 7-236. Antenna 1 (Peak, Ch.122, 802.11ax(SU), MCS11)



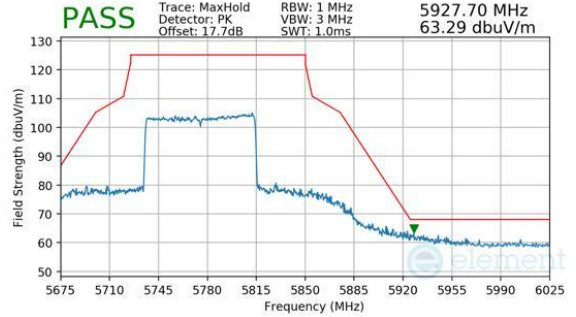
Plot 7-233. Antenna 1 (Peak & Average, Ch.58, 802.11ax(SU), MCS11)



Plot 7-237. Antenna 1 (Peak, Ch.155, 802.11ax(SU), MCS11)



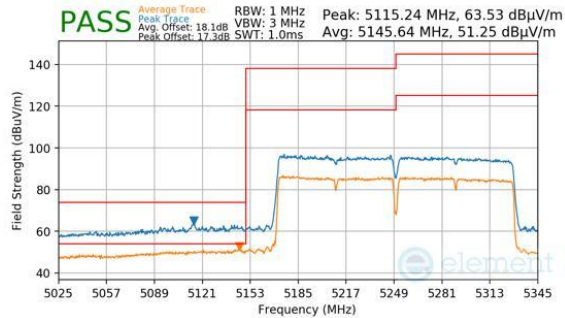
Plot 7-234. Antenna 1 (Peak & Average, Ch.106, 802.11ax(SU), MCS11)



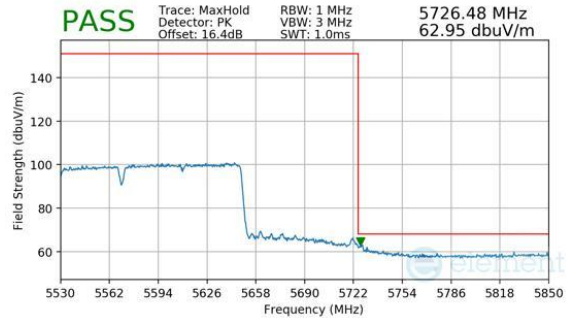
Plot 7-238. Antenna 1 (Peak, Ch.155, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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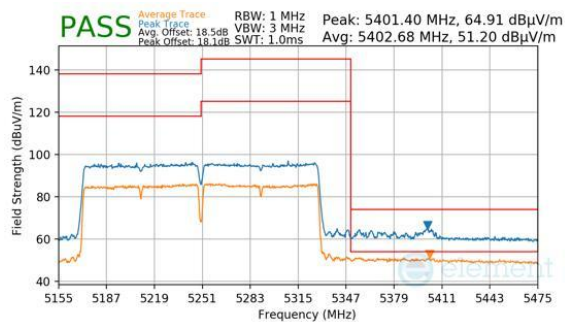
7.6.10 Antenna 1 Radiated Band Edge Measurements (160MHz BW)



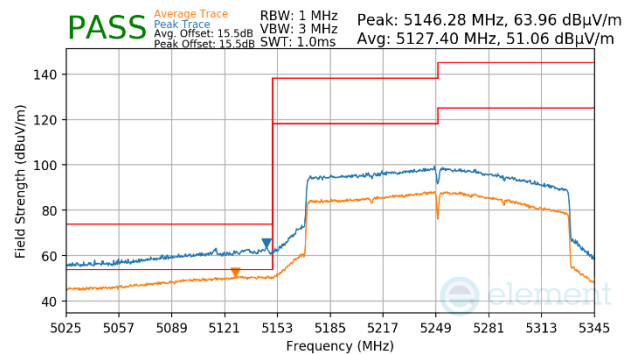
Plot 7-239. Antenna 1 (Peak & Average, Ch.50, 802.11ac, MCS8)



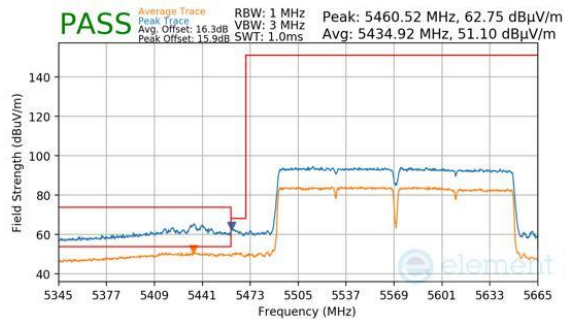
Plot 7-242. Antenna 1 (Peak, Ch.114, 802.11ac, MCS8)



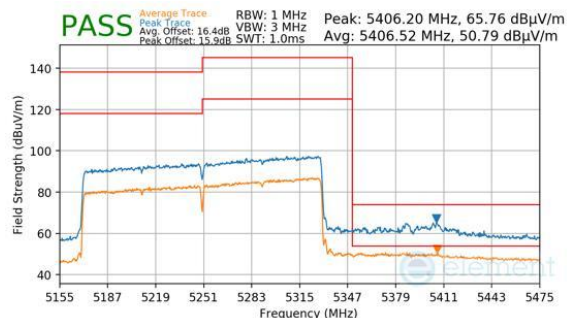
Plot 7-240. Antenna 1 (Peak & Average, Ch.50, 802.11ac, MCS8)



Plot 7-243. Antenna 1 (Peak & Average, Ch.50, 802.11ax(SU), MCS11)

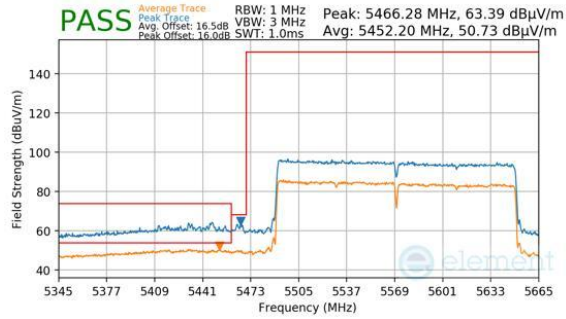


Plot 7-241. Antenna 1 (Peak & Average, Ch.114, 802.11ac, MCS8)

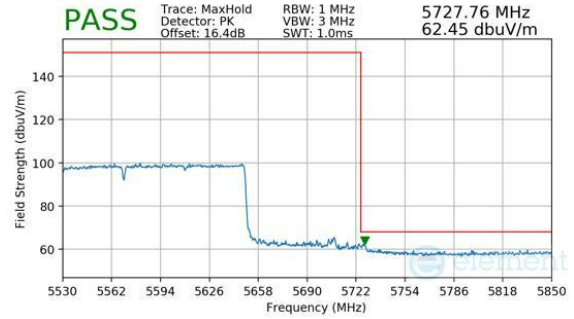


Plot 7-244. Antenna 1 (Peak & Average, Ch.50, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 152 of 178

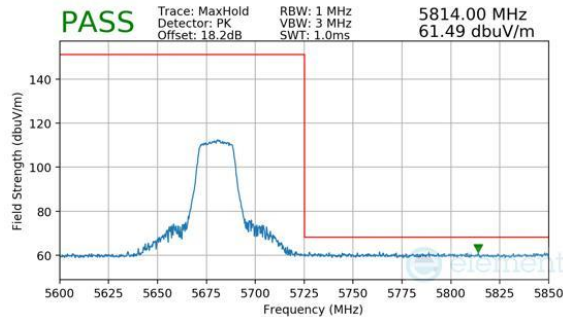


Plot 7-245. Antenna 1 (Peak & Average, Ch.114, 802.11ax(SU), MCS11)

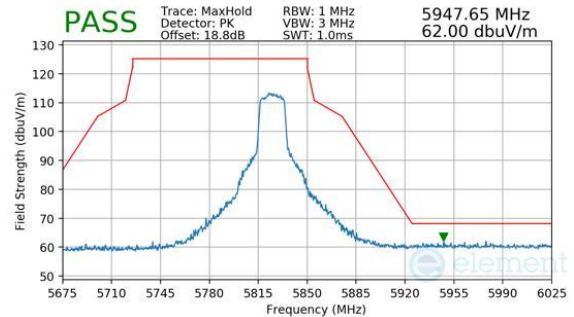


Plot 7-246. Antenna 1 (Peak, Ch.114, 802.11ax(SU), MCS11)

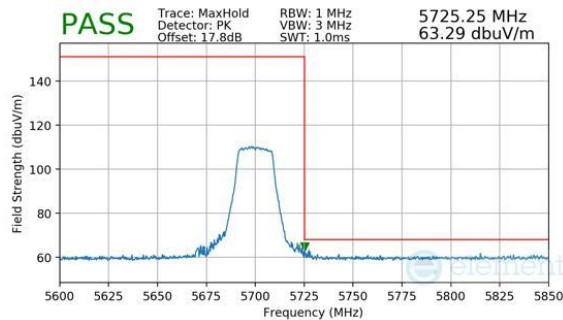
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 153 of 178



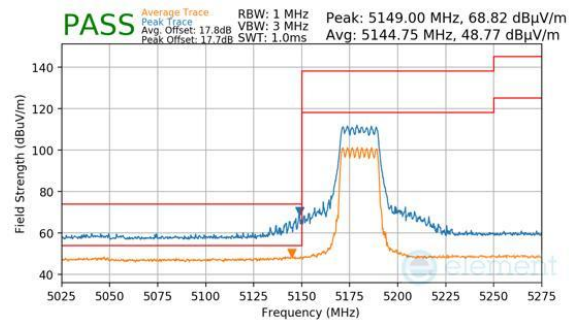
Plot 7-253. CDD (Peak, Ch.136, 802.11n, MCS15)



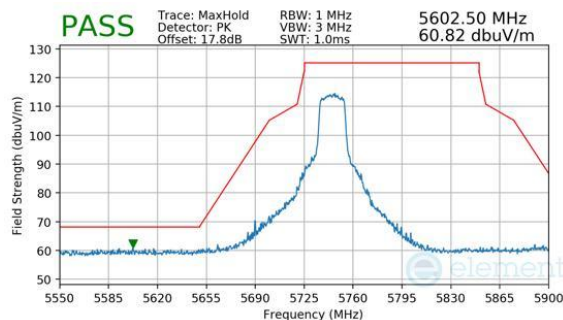
Plot 7-256. CDD (Peak, Ch.165, 802.11n, MCS15)



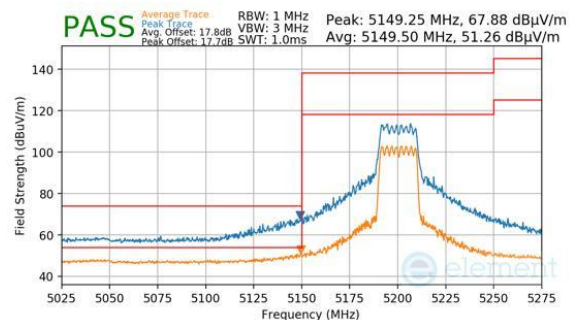
Plot 7-254. CDD (Peak, Ch.140, 802.11n, MCS15)



Plot 7-257. CDD (Peak & Average, Ch.36, 802.11ax(SU), MCS11)

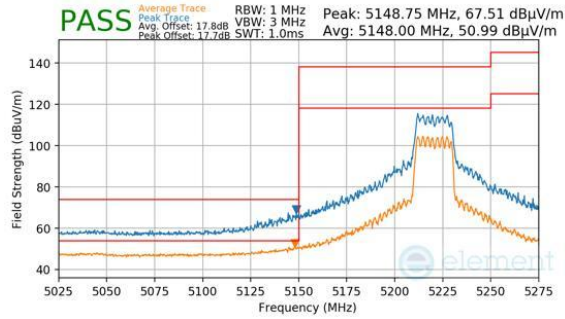


Plot 7-255. CDD (Peak, Ch.149, 802.11n, MCS15)

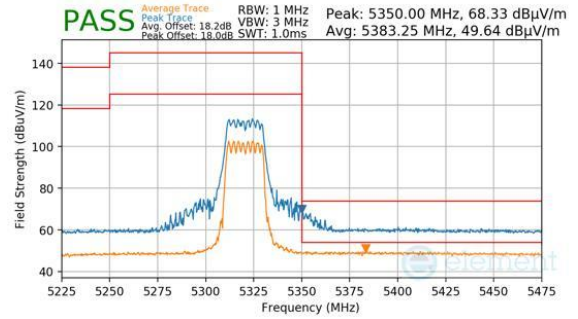


Plot 7-258. CDD (Peak & Average, Ch.40, 802.11ax(SU), MCS11)

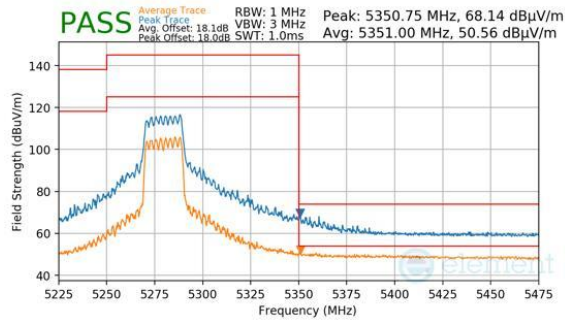
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 155 of 178



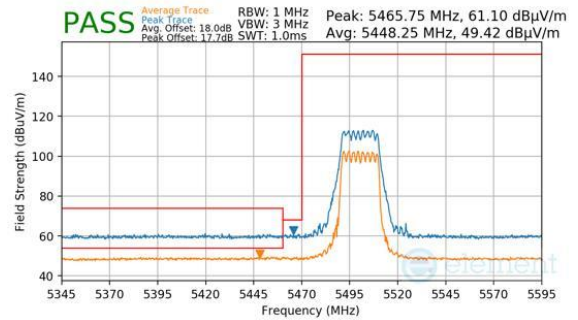
Plot 7-259. CDD (Peak & Average, Ch.44, 802.11ax(SU), MCS11)



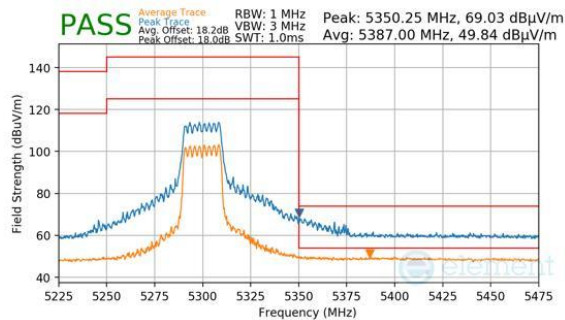
Plot 7-262. CDD (Peak & Average, Ch.64, 802.11ax(SU), MCS11)



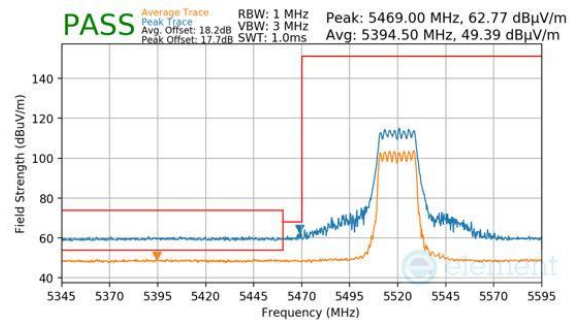
Plot 7-260. CDD (Peak & Average, Ch.56, 802.11ax(SU), MCS11)



Plot 7-263. CDD (Peak & Average, Ch.100, 802.11ax(SU), MCS11)

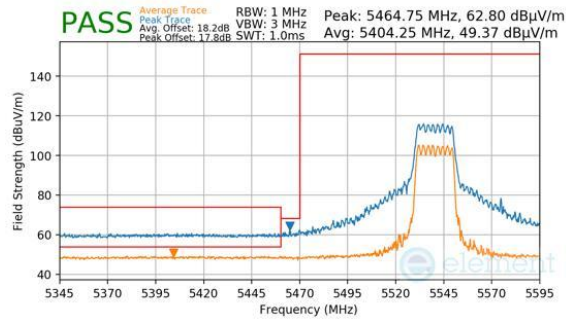


Plot 7-261. CDD (Peak & Average, Ch.60, 802.11ax(SU), MCS11)

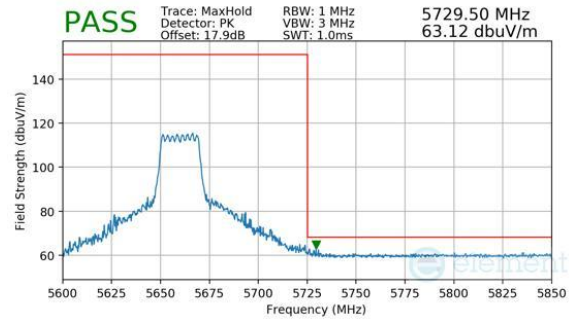


Plot 7-264. CDD (Peak & Average, Ch.104, 802.11ax(SU), MCS11)

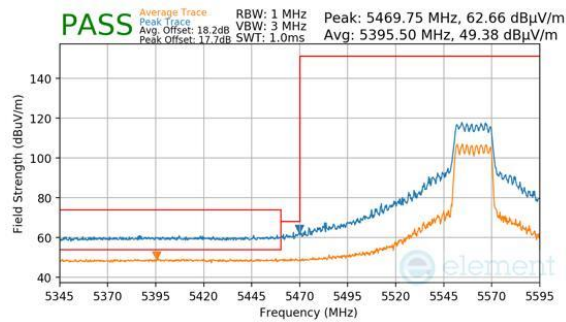
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 156 of 178



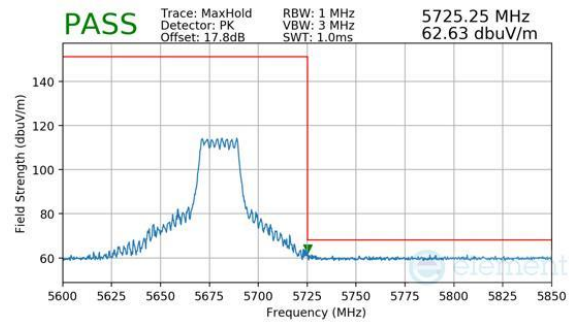
Plot 7-265. CDD (Peak & Average, Ch.108, 802.11ax(SU), MCS11)



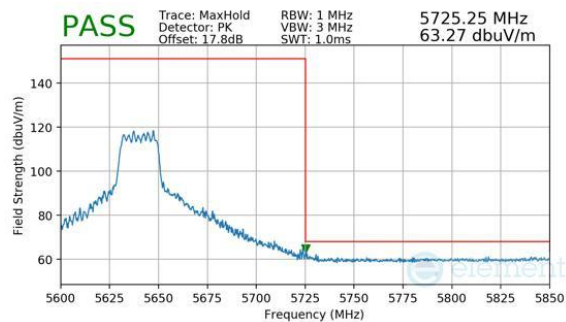
Plot 7-268. CDD (Peak, Ch.132, 802.11ax(SU), MCS11)



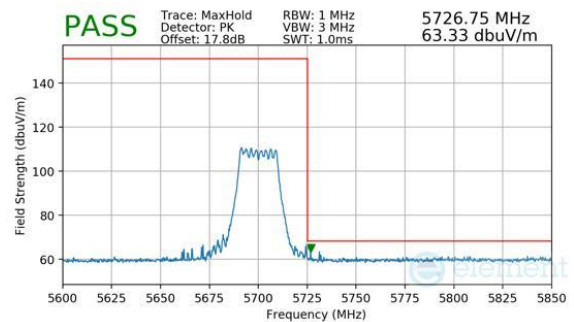
Plot 7-266. CDD (Peak & Average, Ch.112, 802.11ax(SU), MCS11)



Plot 7-269. CDD (Peak, Ch.136, 802.11ax(SU), MCS11)

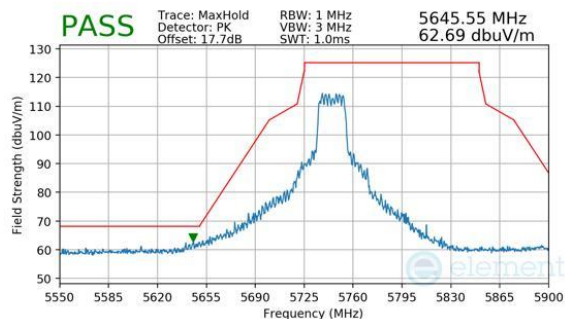


Plot 7-267. CDD (Peak, Ch.128, 802.11ax(SU), MCS11)

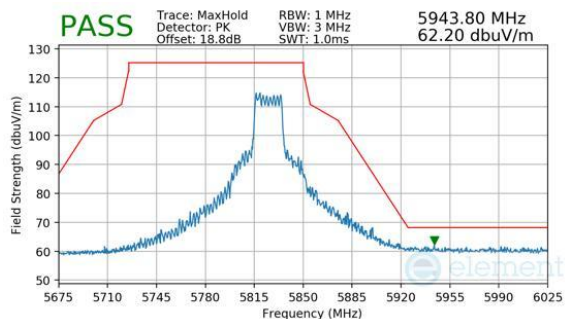


Plot 7-270. CDD (Peak, Ch.140, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 157 of 178



Plot 7-271. CDD (Peak, Ch.149, 802.11ax(SU), MCS11)

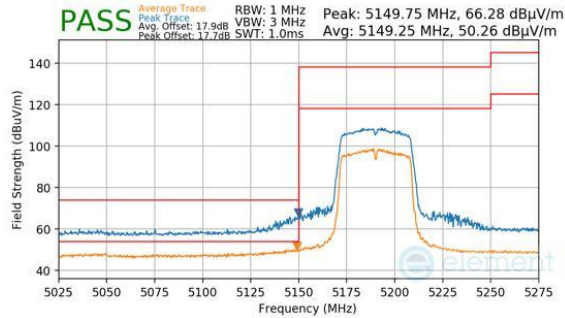


Plot 7-272. CDD (Peak, Ch.165, 802.11ax(SU), MCS11)

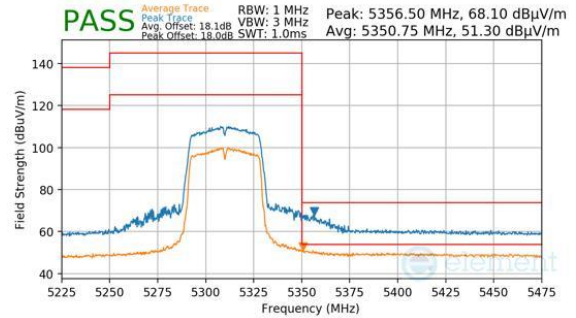
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 158 of 178

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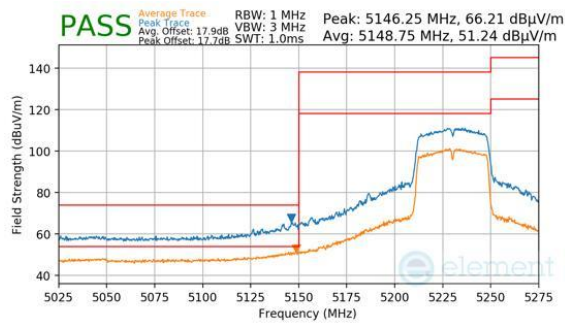
7.6.12 CDD Radiated Band Edge Measurements (40MHz BW)



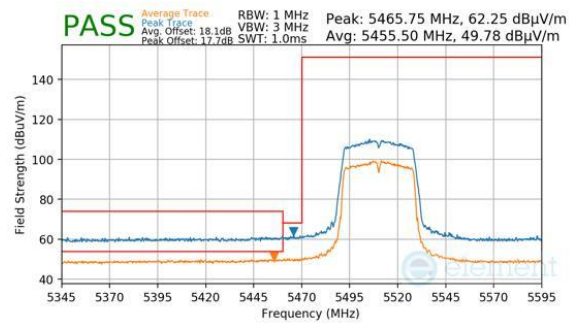
Plot 7-273. CDD (Peak & Average, Ch.38, 802.11n, MCS15)



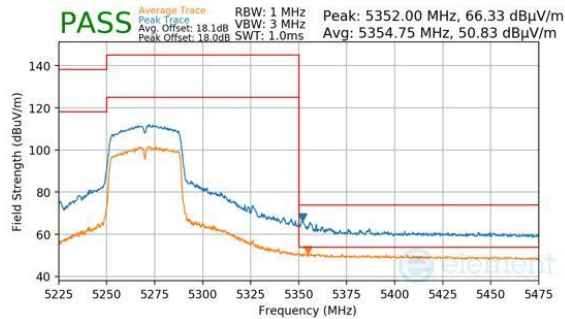
Plot 7-276. CDD (Peak & Average, Ch.62, 802.11n, MCS15)



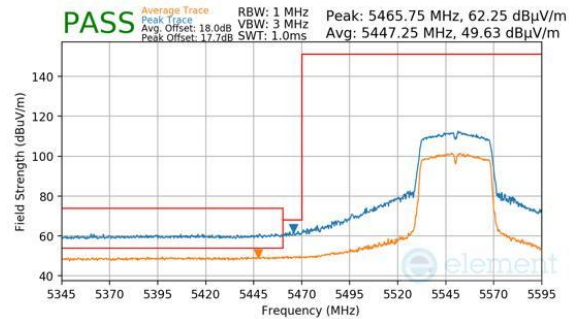
Plot 7-274. CDD (Peak & Average, Ch.46, 802.11n, MCS15)



Plot 7-277. CDD (Peak & Average, Ch.102, 802.11n, MCS15)

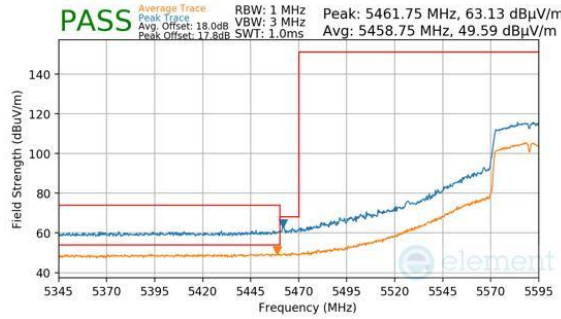


Plot 7-275. CDD (Peak & Average, Ch.54, 802.11n, MCS15)

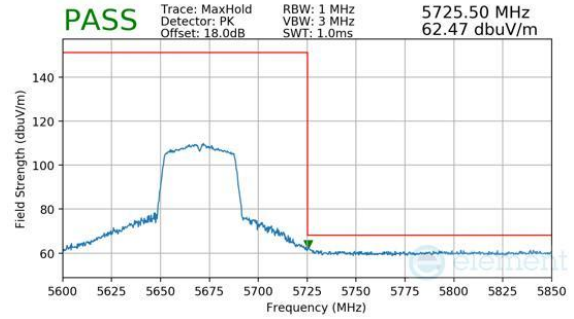


Plot 7-278. CDD (Peak & Average, Ch.110, 802.11n, MCS15)

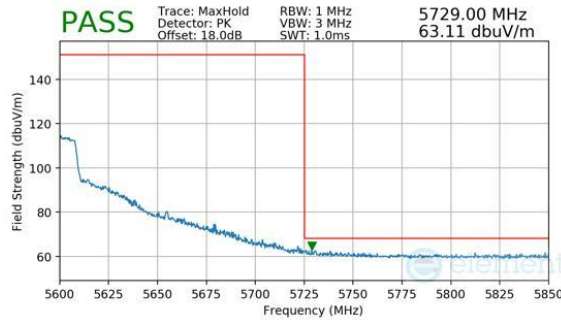
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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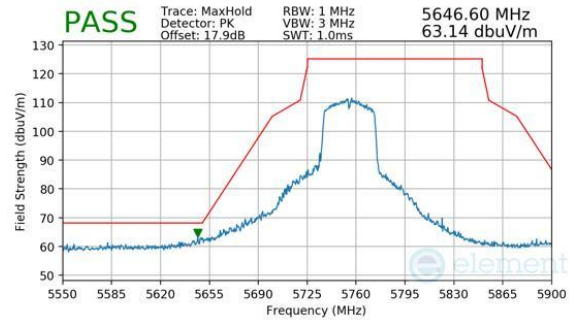
Plot 7-279. CDD (Peak & Average, Ch.118, 802.11n, MCS15)



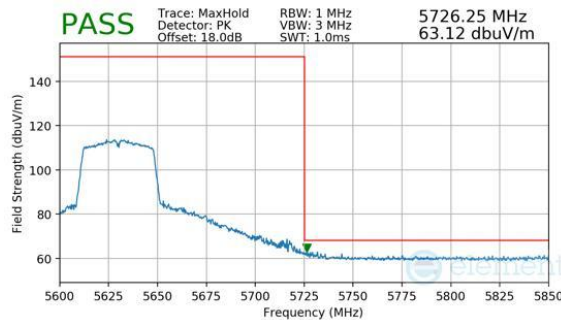
Plot 7-282. CDD (Peak, Ch.134, 802.11n, MCS15)



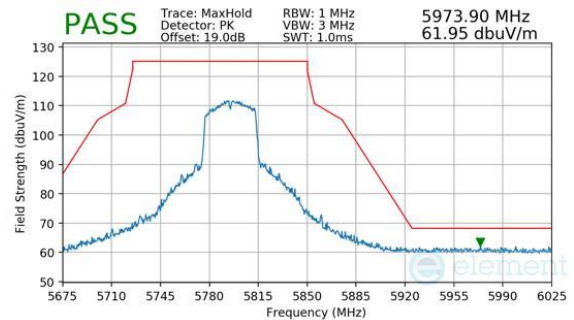
Plot 7-280. CDD (Peak, Ch.118, 802.11n, MCS15)



Plot 7-283. CDD (Peak, Ch.151, 802.11n, MCS15)

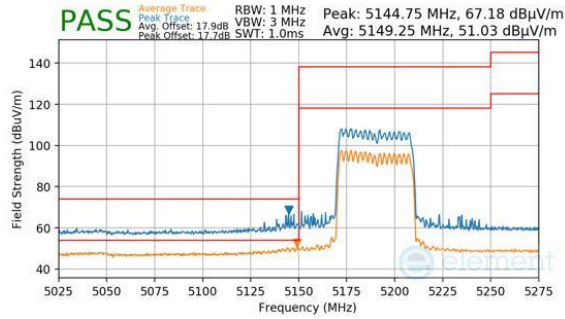


Plot 7-281. CDD (Peak, Ch.126, 802.11n, MCS15)

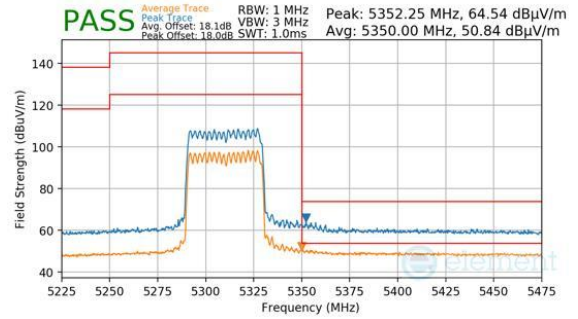


Plot 7-284. CDD (Peak, Ch.159, 802.11n, MCS15)

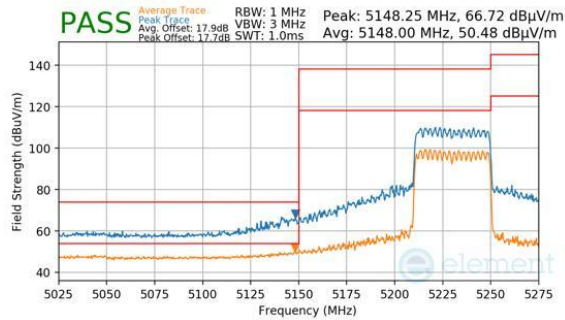
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 160 of 178



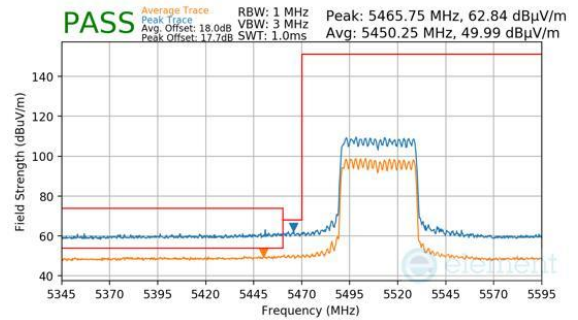
Plot 7-285. CDD (Peak & Average, Ch.38, 802.11ax(SU), MCS11)



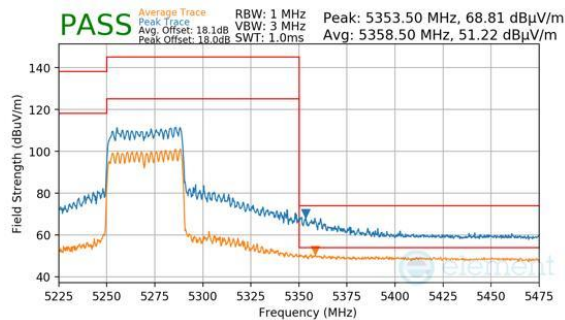
Plot 7-288. CDD (Peak & Average, Ch.62, 802.11ax(SU), MCS11)



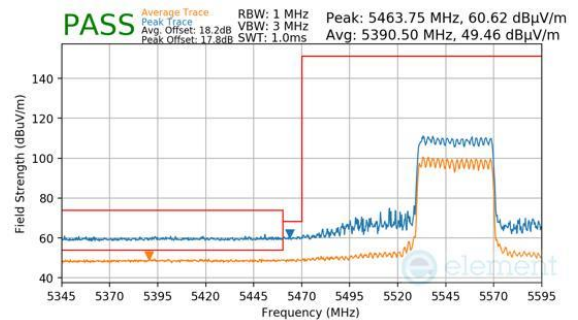
Plot 7-286. CDD (Peak & Average, Ch.46, 802.11ax(SU), MCS11)



Plot 7-289. CDD (Peak & Average, Ch.102, 802.11ax(SU), MCS11)

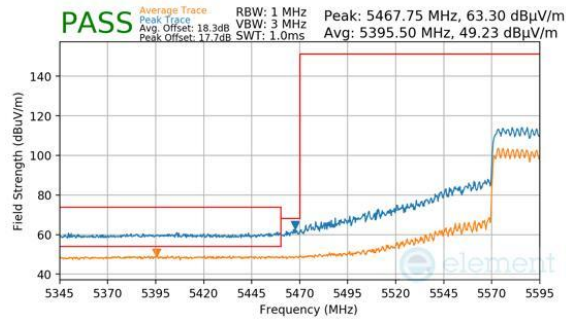


Plot 7-287. CDD (Peak & Average, Ch.54, 802.11ax(SU), MCS11)

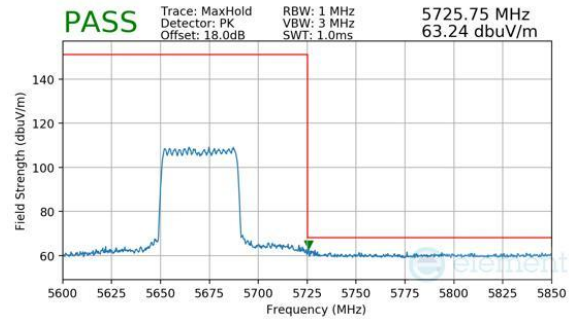


Plot 7-290. CDD (Peak & Average, Ch.110, 802.11ax(SU), MCS11)

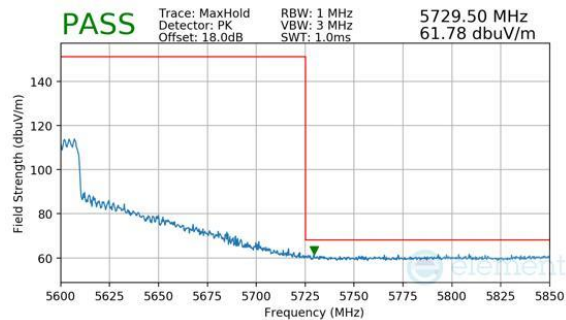
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 161 of 178



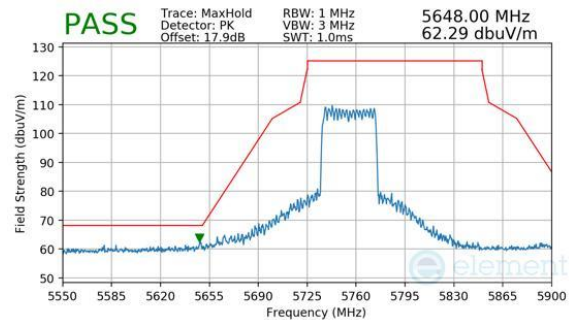
Plot 7-291. CDD (Peak & Average, Ch.118, 802.11ax(SU), MCS11)



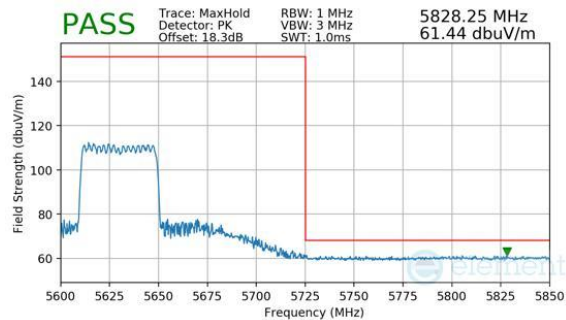
Plot 7-294. CDD (Peak, Ch.134, 802.11ax(SU), MCS11)



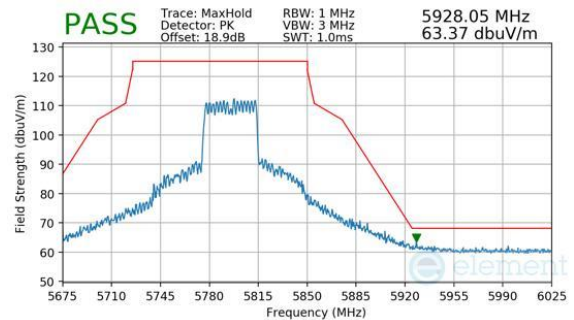
Plot 7-292. CDD (Peak, Ch.118, 802.11ax(SU), MCS11)



Plot 7-295. CDD (Peak, Ch.151, 802.11ax(SU), MCS11)



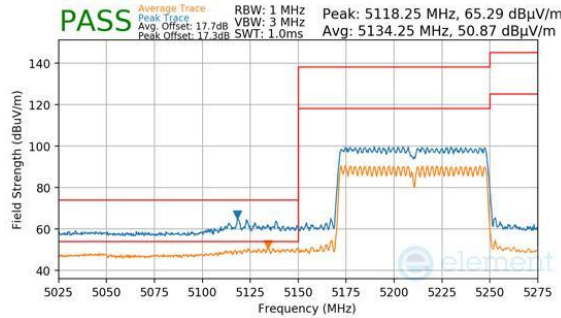
Plot 7-293. CDD (Peak, Ch.126, 802.11ax(SU), MCS11)



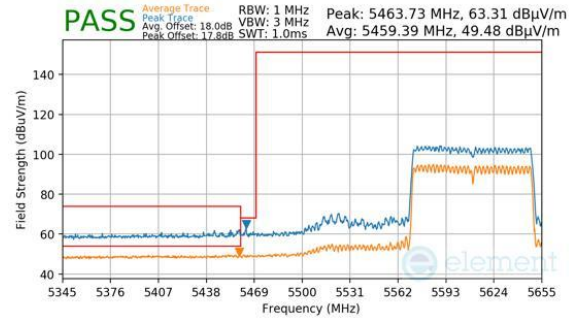
Plot 7-296. CDD (Peak, Ch.159, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 162 of 178

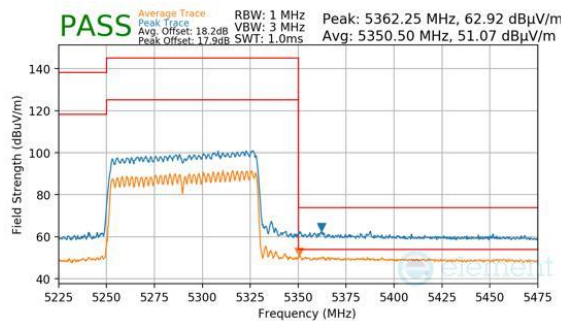
7.6.13 CDD Radiated Band Edge Measurements (80MHz BW)



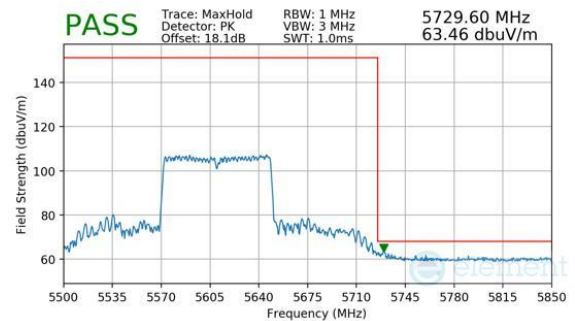
Plot 7-297. CDD (Peak & Average, Ch.42, 802.11ac, MCS8)



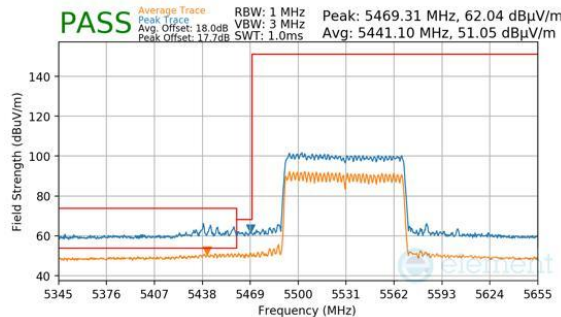
Plot 7-300. CDD (Peak & Average, Ch.122, 802.11ac, MCS8)



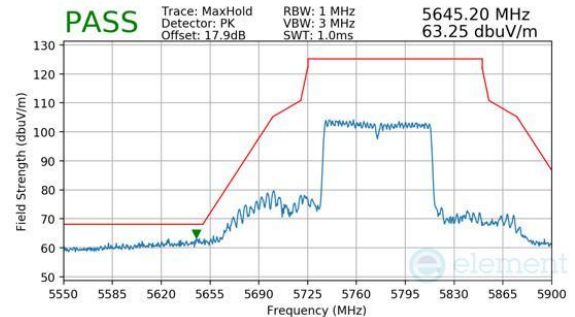
Plot 7-298. CDD (Peak & Average, Ch.58, 802.11ac, MCS8)



Plot 7-301. CDD (Peak, Ch.122, 802.11ac, MCS8)

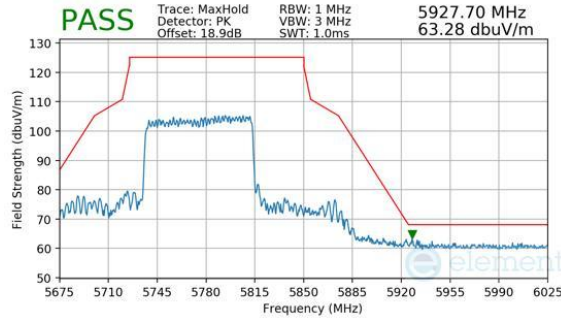


Plot 7-299. CDD (Peak & Average, Ch.106, 802.11ac, MCS8)

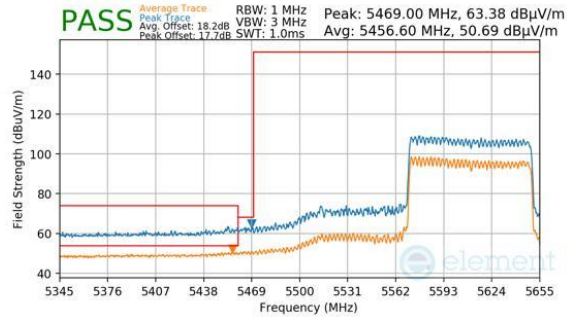


Plot 7-302. CDD (Peak, Ch.155, 802.11ac, MCS8)

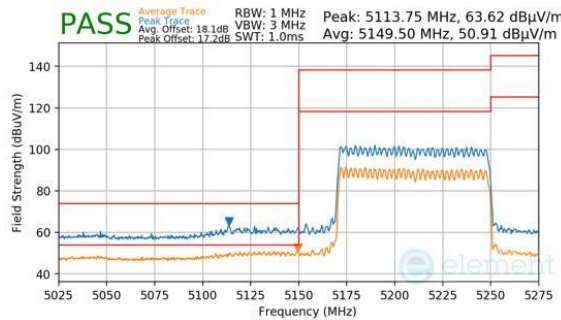
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 163 of 178



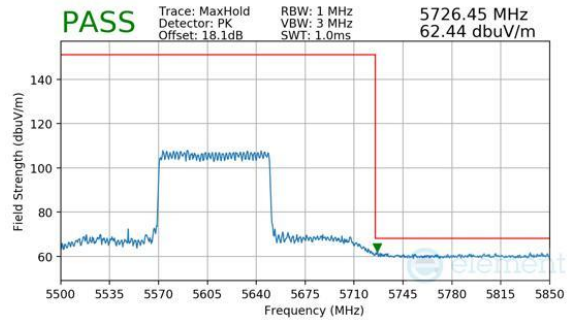
Plot 7-303. CDD (Peak, Ch.155, 802.11ac, MCS8)



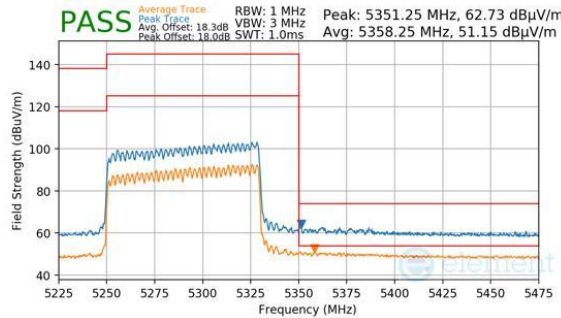
Plot 7-307. CDD (Peak & Average, Ch.122, 802.11ax(SU), MCS11)



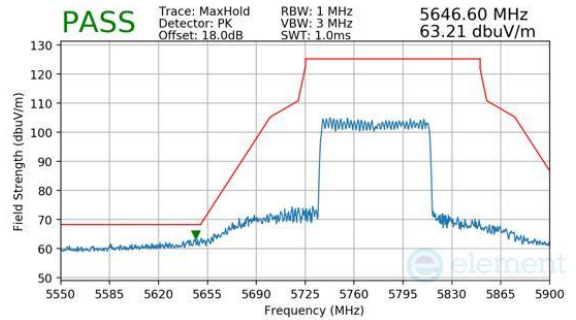
Plot 7-304. CDD (Peak & Average, Ch.42, 802.11ax(SU), MCS11)



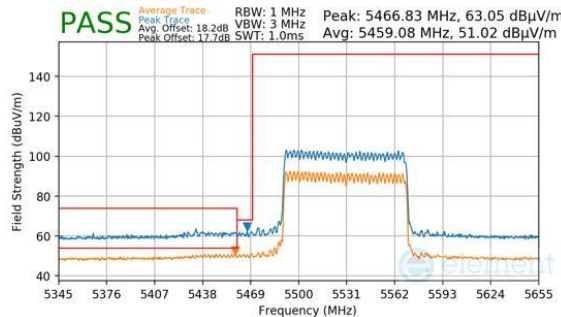
Plot 7-308. CDD (Peak, Ch.122, 802.11ax(SU), MCS11)



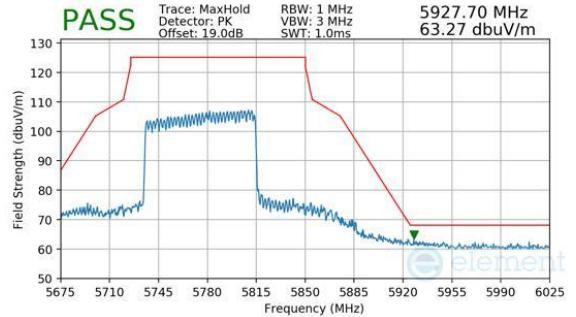
Plot 7-305. CDD (Peak & Average, Ch.58, 802.11ax(SU), MCS11)



Plot 7-309. CDD (Peak, Ch.155, 802.11ax(SU), MCS11)



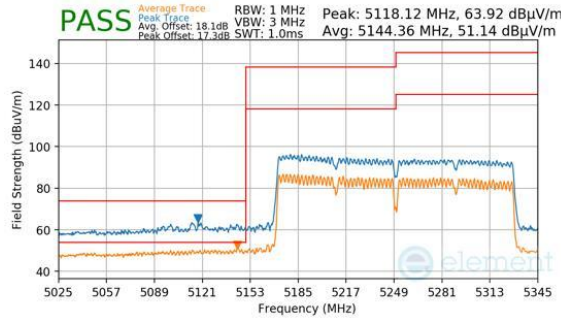
Plot 7-306. CDD (Peak & Average, Ch.106, 802.11ax(SU), MCS11)



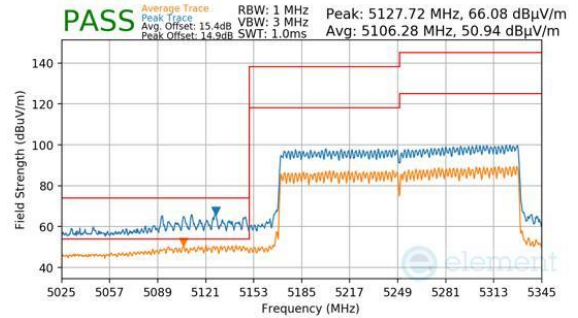
Plot 7-310. CDD (Peak, Ch.155, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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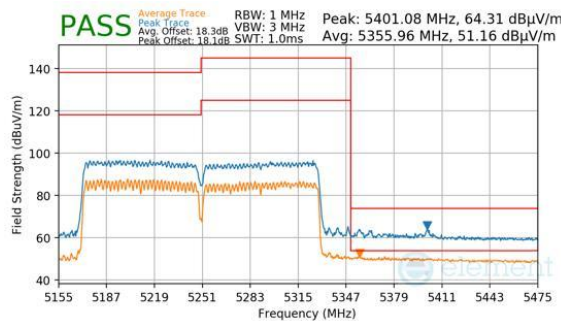
7.6.14 CDD Radiated Band Edge Measurements (160MHz BW)



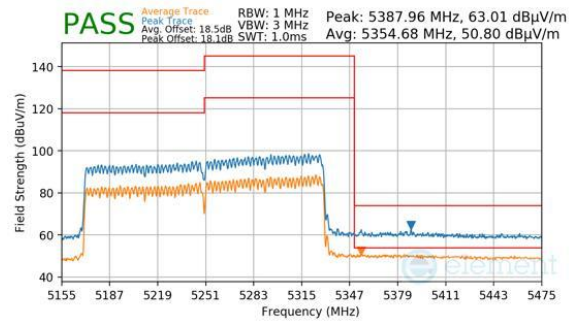
Plot 7-311. CDD (Peak & Average, Ch.50, 802.11ac, MCS8)



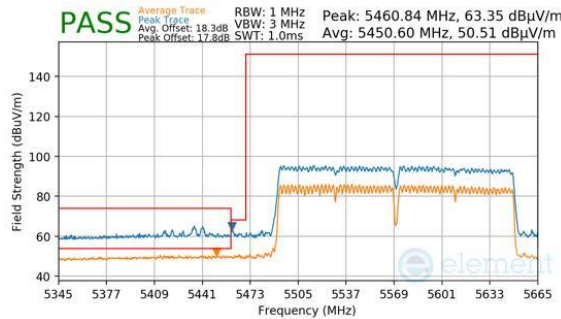
Plot 7-315. CDD (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



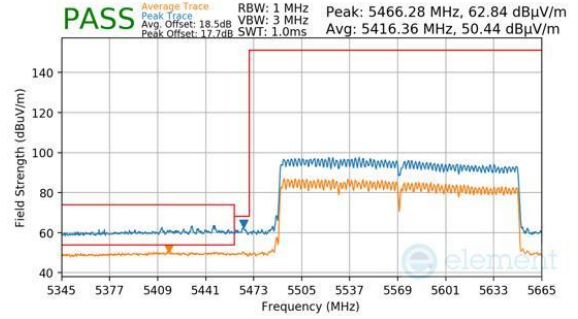
Plot 7-312. CDD (Peak & Average, Ch.50, 802.11ac, MCS8)



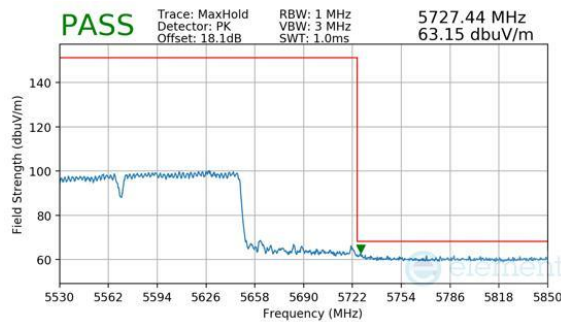
Plot 7-316. CDD (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



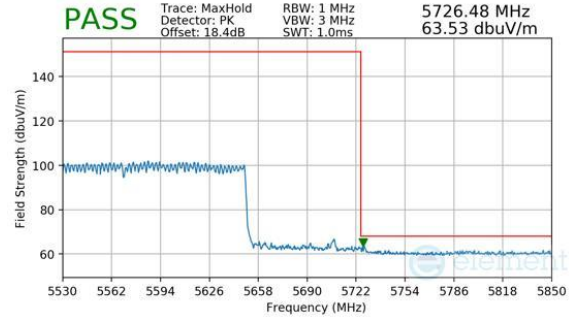
Plot 7-313. CDD (Peak & Average, Ch.114, 802.11ac, MCS8)



Plot 7-317. CDD (Peak & Average, Ch.114, 802.11ax(SU), MCS11)



Plot 7-314. CDD (Peak, Ch.114, 802.11ac, MCS8)



Plot 7-318. CDD (Peak, Ch.114, 802.11ax(SU), MCS11)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 165 of 178

7.7 Radiated Spurious Emissions – Below 1GHz

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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (7.5) must not exceed the limits shown in Table 7-97 per Section 15.209 and RSS-Gen (7.4.3).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-97. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. RBW = 120kHz (for emissions from 30MHz – 1GHz)
9. VBW = 300kHz
10. Detector = quasi-peak
11. Sweep time = auto couple
12. Trace mode = max hold
13. Trace was allowed to stabilize

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Setup

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

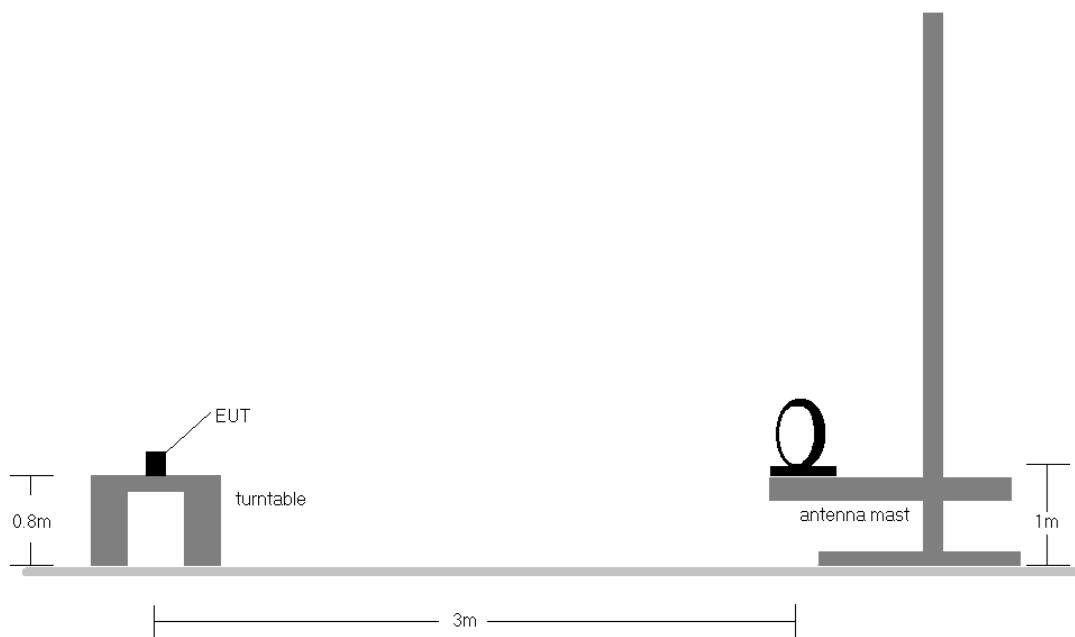


Figure 7-6. Radiated Test Setup < 30MHz

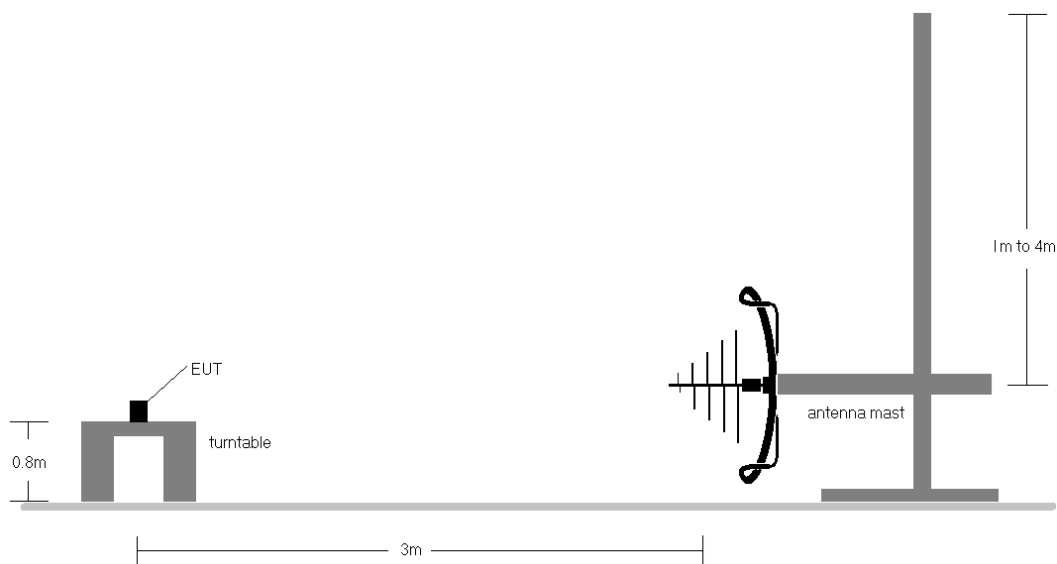


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (7.5) are below the limit shown in Table 7-97.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through one orthogonal plane. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested while powered by an AC/DC adapter via USB-C cable.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. The configuration below was investigated, and the worst case has been reported.
 - a. EUT powered by an AC/DC Adapter via USB-C cable
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

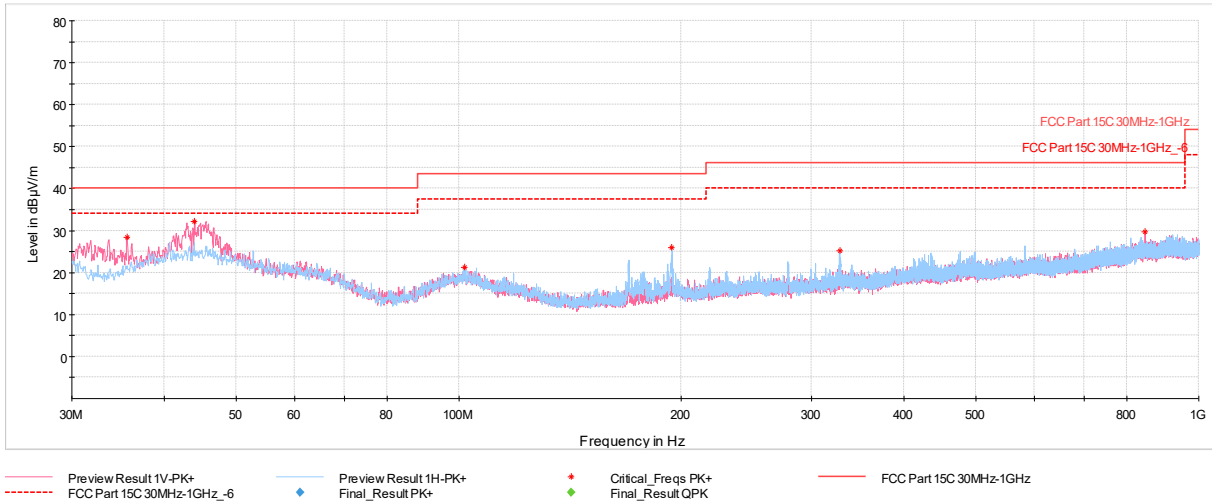
Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamp Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 168 of 178

7.7.1 CDD Radiated Spurious Emissions Measurements (Below 1GHz)

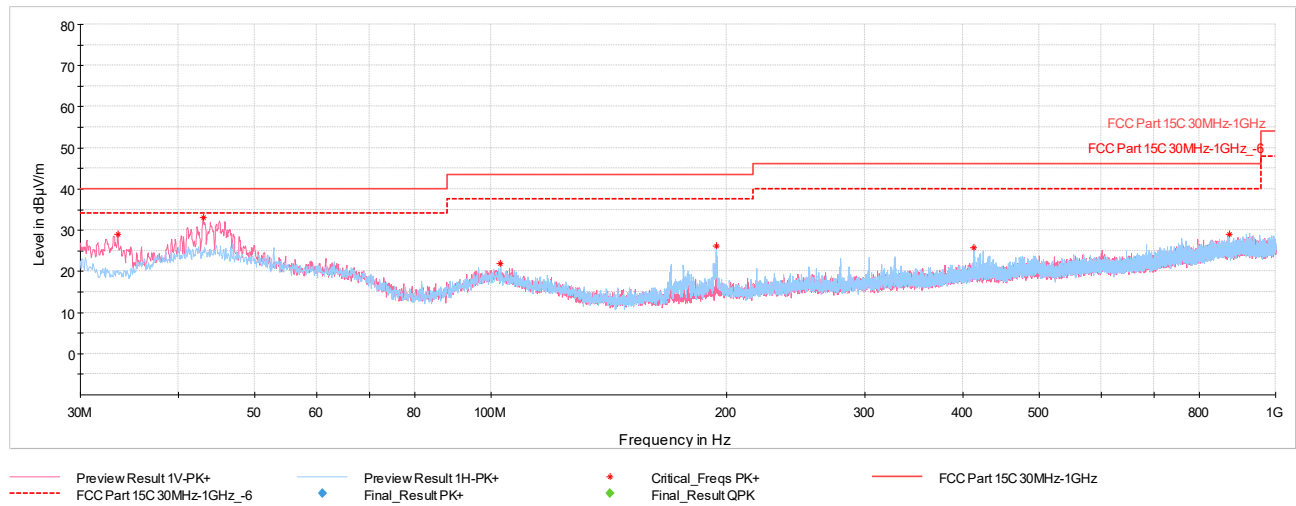


Plot 7-319. Radiated Spurious Emissions below 1GHz CDD, 802.11n, Ch.36 with AC/DC Adapter via USB-C cable

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
35.63	Max Peak	V	100	48	-61.17	-17.37	28.46	40.00	-11.54
43.97	Max Peak	V	100	332	-60.01	-14.75	32.24	40.00	-7.76
101.73	Max Peak	V	300	198	-69.33	-16.45	21.22	43.52	-22.30
194.12	Max Peak	H	200	215	-64.95	-16.03	26.02	43.52	-17.50
327.06	Max Peak	H	100	314	-69.45	-12.37	25.18	46.02	-20.84
845.19	Max Peak	V	100	91	-75.11	-2.21	29.68	46.02	-16.34

Table 7-98. Radiated Spurious Emissions below 1GHz, 802.11n, Ch.36 with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 169 of 178



Plot 7-320. Radiated Spurious Emissions below 1GHz CDD, 802.11ax (SU), Ch.36 with AC/DC Adapter via USB-C cable

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
33.49	Max Peak	V	100	29	-59.83	-18.24	28.93	40.00	-11.07
43.05	Max Peak	V	100	15	-58.96	-14.92	33.12	40.00	-6.88
102.94	Max Peak	H	300	265	-68.79	-16.37	21.84	43.52	-21.68
193.74	Max Peak	H	200	202	-64.69	-16.08	26.23	43.52	-17.29
412.67	Max Peak	H	100	223	-71.10	-10.08	25.82	46.02	-20.20
873.95	Max Peak	H	100	25	-75.88	-2.04	29.08	46.02	-16.94

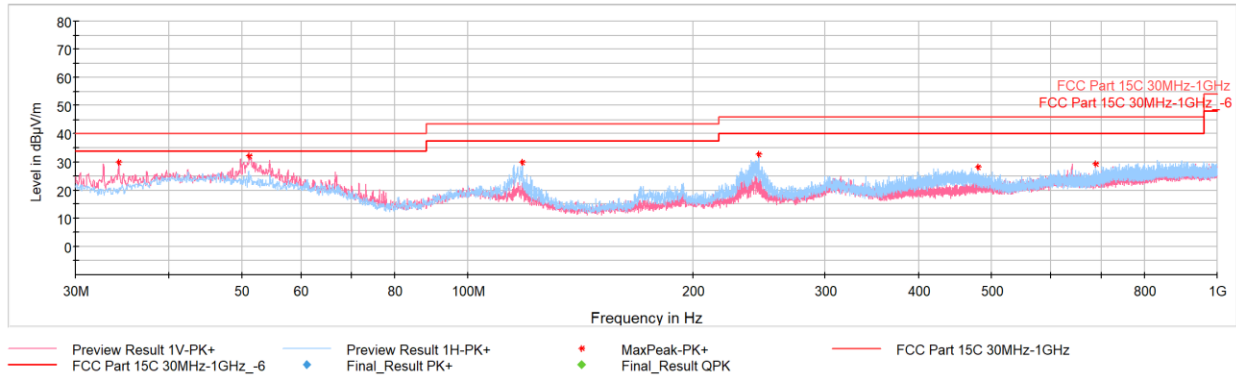
Table 7-99. Radiated Spurious Emissions below 1GHz, 802.11ax (SU), Ch.36 with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.7.2 Simultaneous TX Radiated Spurious Emissions Measurements

Description	802.11ax 5GHz	802.15.4
Antenna	Antenna 1	Antenna 1
Channel	36	25
Operating Frequency (MHz)	5180	2475
Mode/Modulation	802.11ax(SU)	Thread/ePA

Table 7-100. Worst Case Simultaneous Transmission Configuration



Plot 7-321. Radiated Spurious Emissions - Simultaneous Transmission (30MHz – 1GHz, with AC/DC Adapter via USB-C cable)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
34.27	Max-Peak	V	100	346	-59.24	-17.93	29.83	40.00	-10.17
51.20	Max-Peak	V	100	334	-60.72	-14.23	32.05	40.00	-7.95
118.27	Max-Peak	H	300	79	-59.01	-18.10	29.89	43.52	-13.63
244.56	Max-Peak	H	100	80	-59.69	-14.58	32.73	46.02	-13.29
479.01	Max-Peak	H	200	182	-70.05	-8.90	28.05	46.02	-17.97
688.78	Max-Peak	H	100	118	-72.25	-5.37	29.38	46.02	-16.64

Table 7-101. Radiated Spurious Emissions - Simultaneous Transmission (30MHz – 1GHz, with AC/DC Adapter via USB-C cable)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 171 of 178

7.8 AC Line-Conducted Emissions Measurement

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (7.4.2).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-102. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Setup

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

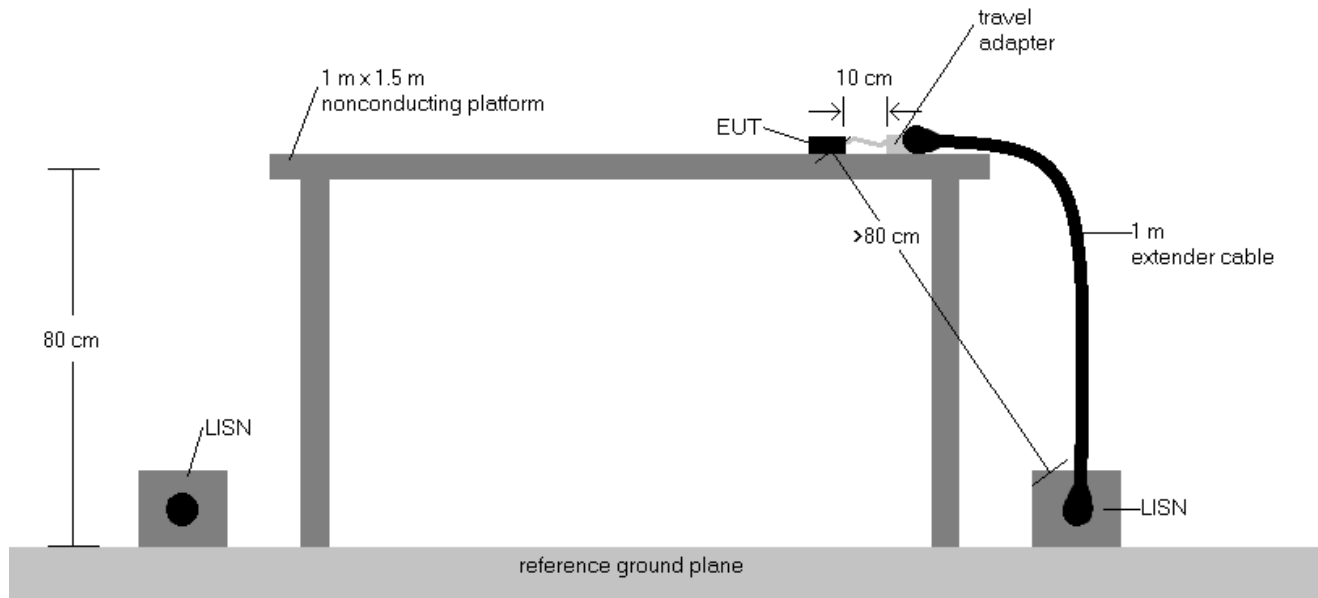
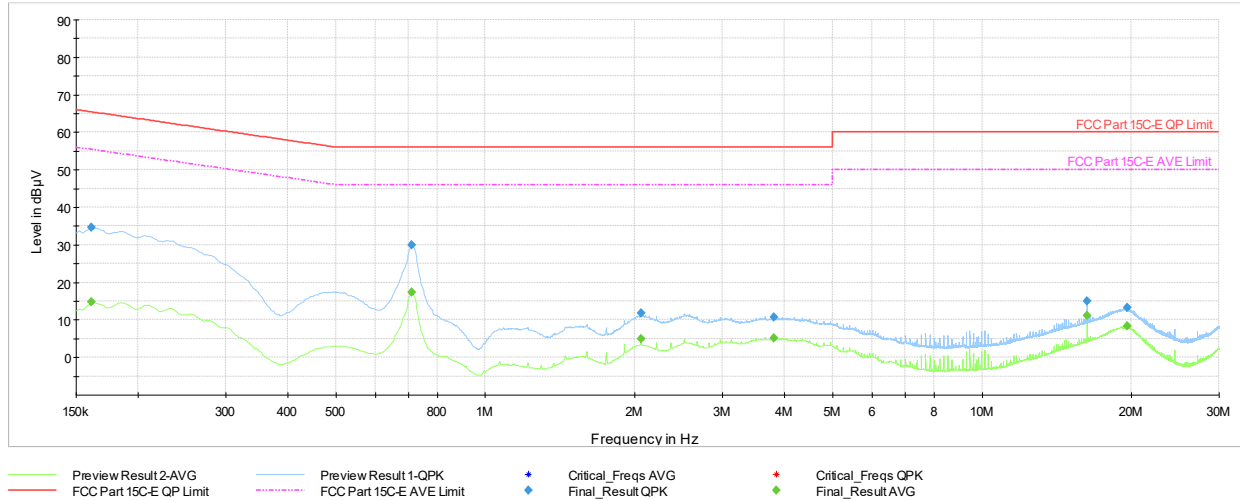


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. The configuration below was investigated, and the worst case has been reported.
 - a. EUT powered by an AC/DC Adapter via USB-C cable
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (7.4.2).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.
9. The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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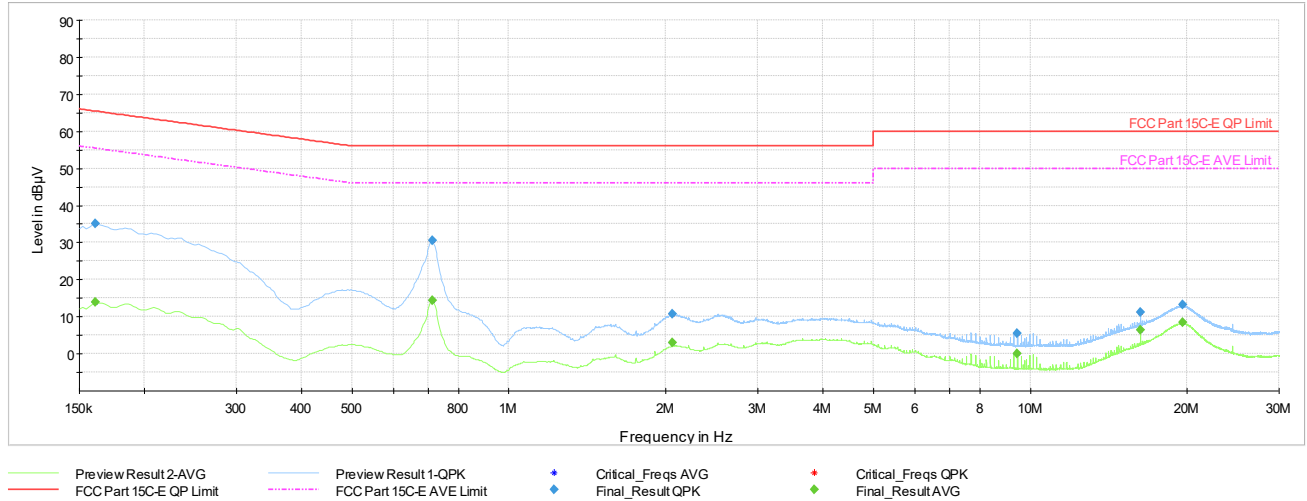


Plot 7-322. AC Line Conducted Plot with 802.11n CDD – Ch.36 (L1), with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	14.72	55.40	-40.68	L1	GND
0.161	FINAL	34.70	—	65.40	-30.70	L1	GND
0.710	FINAL	—	17.41	46.00	-28.59	L1	GND
0.710	FINAL	29.92	—	56.00	-26.08	L1	GND
2.058	FINAL	—	4.93	46.00	-41.07	L1	GND
2.058	FINAL	11.77	—	56.00	-44.23	L1	GND
3.811	FINAL	10.73	—	56.00	-45.27	L1	GND
3.811	FINAL	—	5.22	46.00	-40.78	L1	GND
16.276	FINAL	14.96	—	60.00	-45.04	L1	GND
16.276	FINAL	—	11.12	50.00	-38.88	L1	GND
19.586	FINAL	—	8.36	50.00	-41.64	L1	GND
19.586	FINAL	13.33	—	60.00	-46.67	L1	GND

Table 7-103. AC Line Conducted Data with 802.11n CDD – Ch.36 (L1) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 174 of 178

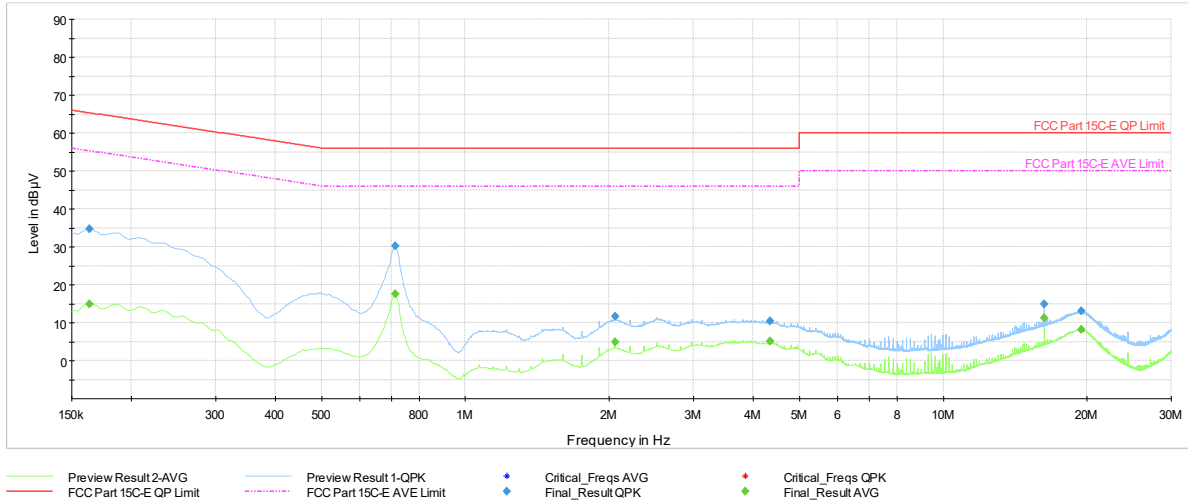


Plot 7-323. AC Line Conducted Plot with 802.11n CDD – Ch.36 (N), with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	13.97	55.40	-41.43	N	GND
0.161	FINAL	35.10	—	65.40	-30.30	N	GND
0.713	FINAL	—	14.30	46.00	-31.70	N	GND
0.713	FINAL	30.45	—	56.00	-25.55	N	GND
2.058	FINAL	—	2.90	46.00	-43.10	N	GND
2.058	FINAL	10.84	—	56.00	-45.16	N	GND
9.452	FINAL	5.51	—	60.00	-54.49	N	GND
9.452	FINAL	—	0.01	50.00	-49.99	N	GND
16.269	FINAL	11.14	—	60.00	-48.86	N	GND
16.269	FINAL	—	6.30	50.00	-43.70	N	GND
19.590	FINAL	—	8.37	50.00	-41.63	N	GND
19.590	FINAL	13.17	—	60.00	-46.83	N	GND

Table 7-104. AC Line Conducted Data with 802.11n CDD – Ch.36 (N), with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 175 of 178

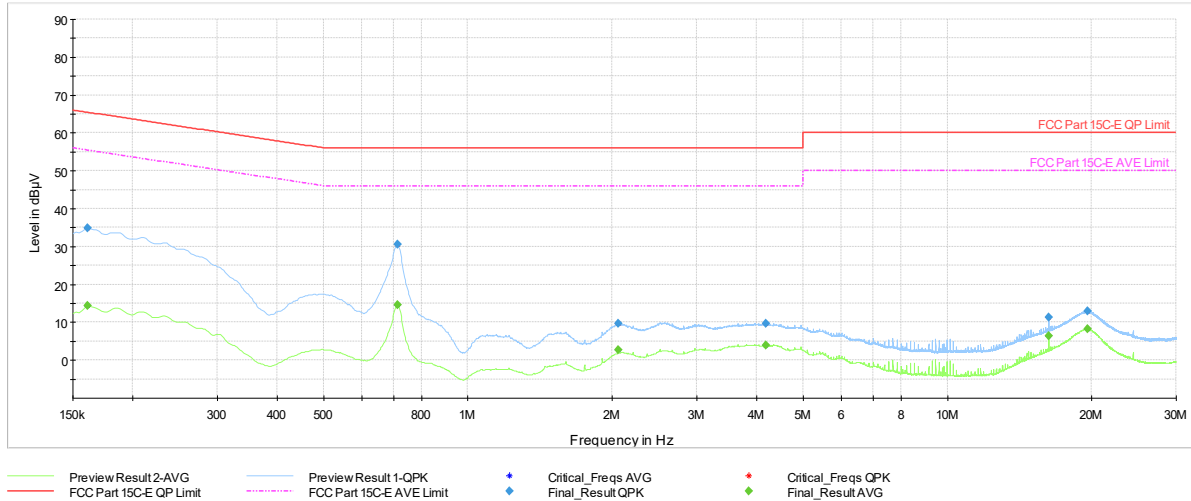


Plot 7-324. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.36 (L1), with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	—	14.94	55.28	-40.35	L1	GND
0.164	FINAL	34.69	—	65.28	-30.59	L1	GND
0.713	FINAL	—	17.46	46.00	-28.54	L1	GND
0.713	FINAL	30.24	—	56.00	-25.76	L1	GND
2.058	FINAL	—	4.88	46.00	-41.12	L1	GND
2.058	FINAL	11.63	—	56.00	-44.37	L1	GND
4.344	FINAL	10.48	—	56.00	-45.52	L1	GND
4.344	FINAL	—	5.04	46.00	-40.96	L1	GND
16.251	FINAL	14.89	—	60.00	-45.11	L1	GND
16.251	FINAL	—	11.20	50.00	-38.80	L1	GND
19.428	FINAL	—	8.25	50.00	-41.75	L1	GND
19.428	FINAL	13.09	—	60.00	-46.91	L1	GND

Table 7-105. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.36 (L1) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 176 of 178



Plot 7-325. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.36 (N), with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	14.31	55.40	-41.09	N	GND
0.161	FINAL	34.96	—	65.40	-30.44	N	GND
0.713	FINAL	—	14.50	46.00	-31.50	N	GND
0.713	FINAL	30.52	—	56.00	-25.48	N	GND
2.058	FINAL	—	2.71	46.00	-43.29	N	GND
2.058	FINAL	9.75	—	56.00	-46.25	N	GND
4.191	FINAL	9.60	—	56.00	-46.40	N	GND
4.191	FINAL	—	3.97	46.00	-42.03	N	GND
16.260	FINAL	11.26	—	60.00	-48.74	N	GND
16.260	FINAL	—	6.49	50.00	-43.51	N	GND
19.583	FINAL	—	8.31	50.00	-41.69	N	GND
19.583	FINAL	13.05	—	60.00	-46.95	N	GND

Table 7-106. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.36 (N), with AC/DC Adapter via USB-C cable

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 177 of 178

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Smart Speaker with Display FCC ID: BCGA3300** and **IC: 579C-A3300** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178 of 178

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