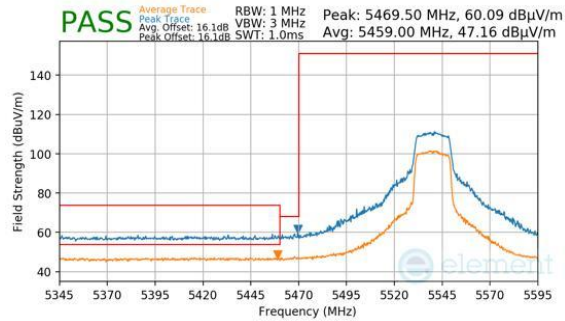
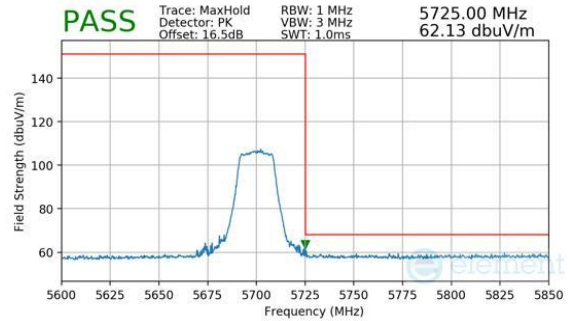
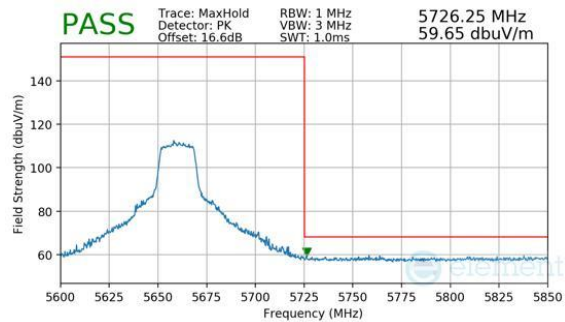




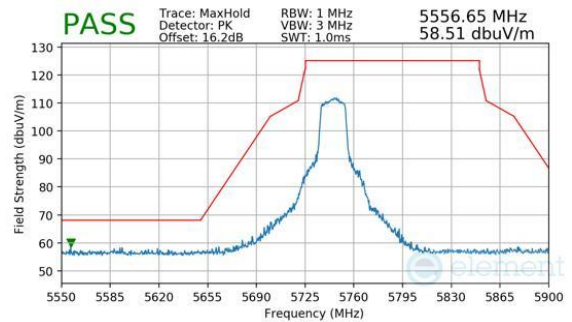
Plot 7-145. Antenna 1 (Peak & Average, Ch.108, 802.11n, MCS7)



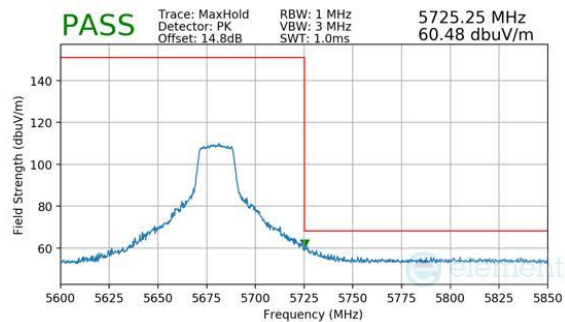
Plot 7-148. Antenna 1 (Peak, Ch.140, 802.11n, MCS7)



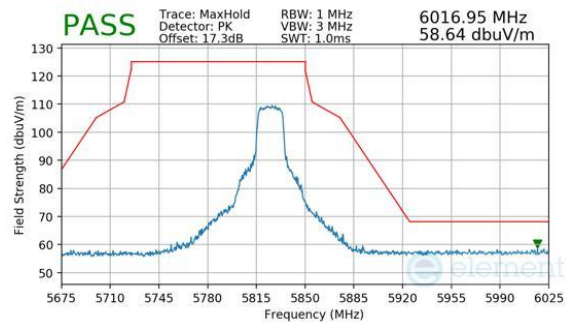
Plot 7-146. Antenna 1 (Peak, Ch.132, 802.11n, MCS7)



Plot 7-149. Antenna 1 (Peak, Ch.149, 802.11n, MCS7)

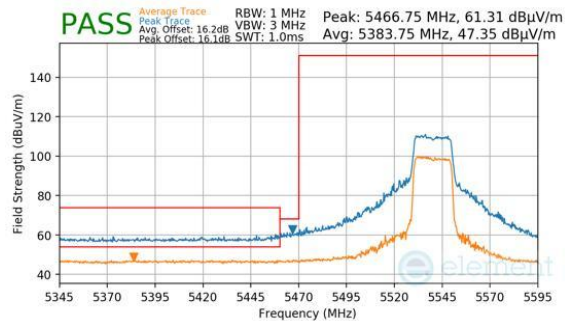


Plot 7-147. Antenna 1 (Peak, Ch.136, 802.11n, MCS7)

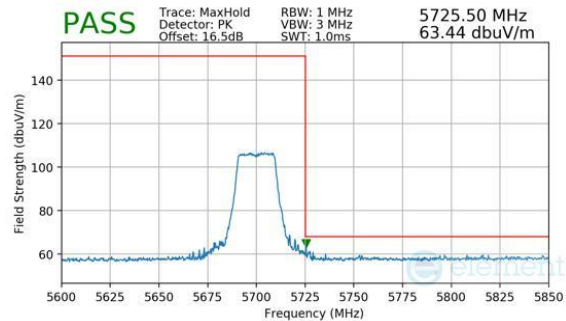


Plot 7-150. Antenna 1 (Peak, Ch.165, 802.11n, MCS7)

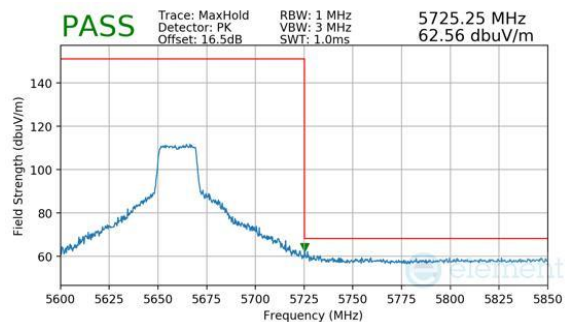
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 127 of 160



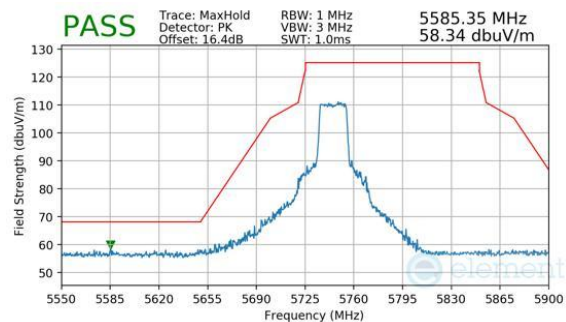
Plot 7-157. Antenna 1 (Peak & Average, Ch.108, 802.11ax(SU), MCS11)



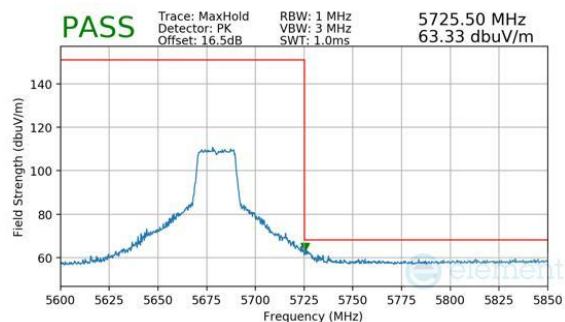
Plot 7-160. Antenna 1 (Peak, Ch.140, 802.11ax(SU), MCS11)



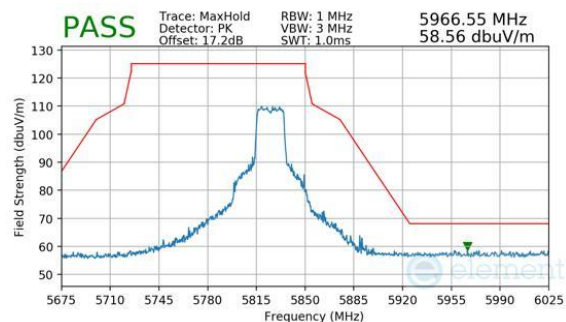
Plot 7-158. Antenna 1 (Peak, Ch.132, 802.11ax(SU), MCS11)



Plot 7-161. Antenna 1 (Peak, Ch.149, 802.11ax(SU), MCS11)



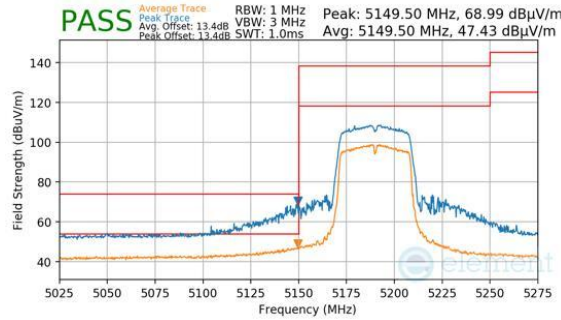
Plot 7-159. Antenna 1 (Peak, Ch.136, 802.11ax(SU), MCS11)



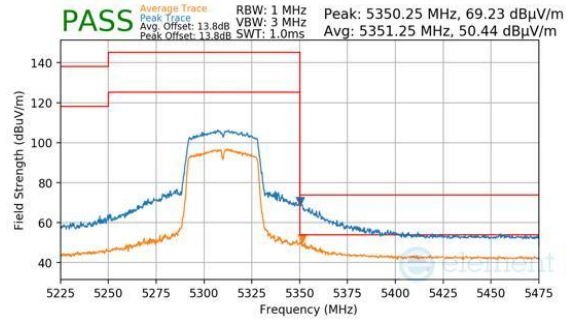
Plot 7-162. Antenna 1 (Peak, Ch.165, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 129 of 160

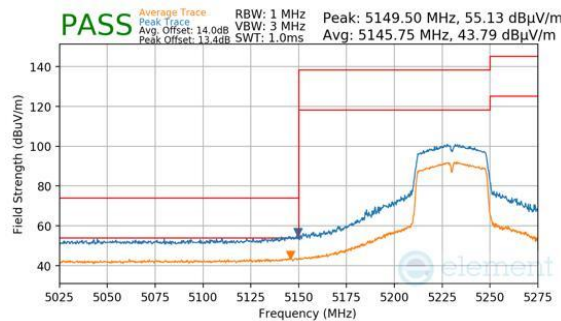
7.6.8 Antenna 1 Radiated Band Edge Measurements (40MHz BW)



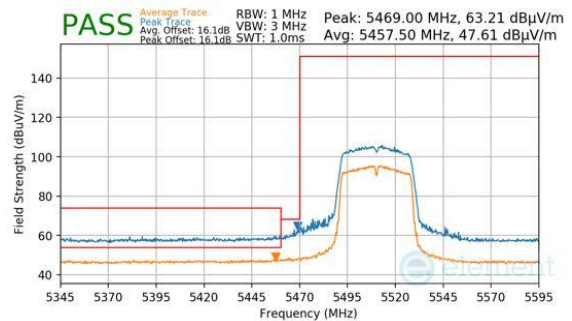
Plot 7-163. Antenna 1 (Peak & Average, Ch.38, 802.11n, MCS7)



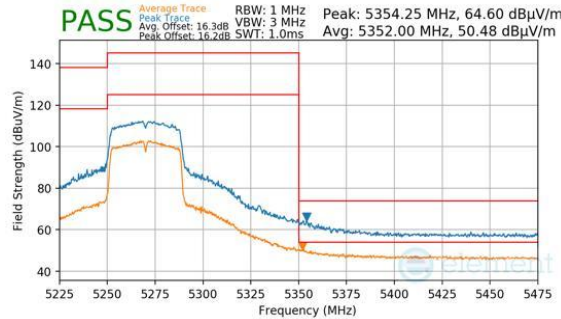
Plot 7-166. Antenna 1 (Peak & Average, Ch.62, 802.11n, MCS7)



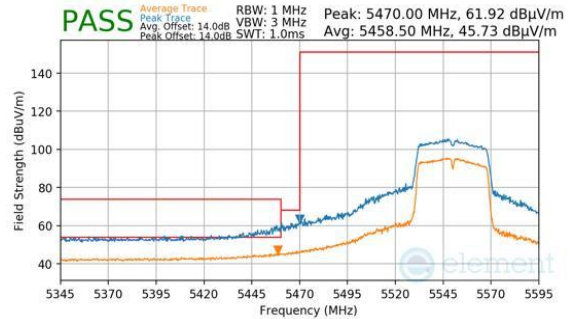
Plot 7-164. Antenna 1 (Peak & Average, Ch.46, 802.11n, MCS7)



Plot 7-167. Antenna 1 (Peak & Average, Ch.102, 802.11n, MCS7)

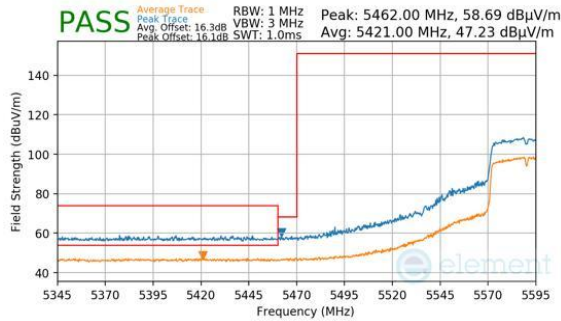


Plot 7-165. Antenna 1 (Peak & Average, Ch.54, 802.11n, MCS7)

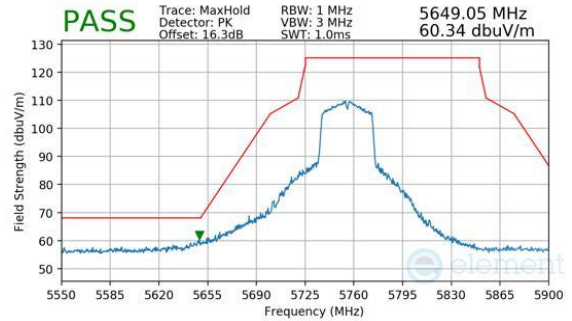


Plot 7-168. Antenna 1 (Peak & Average, Ch.110, 802.11n, MCS7)

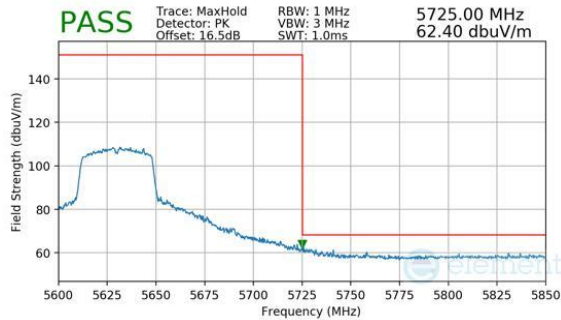
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 130 of 160



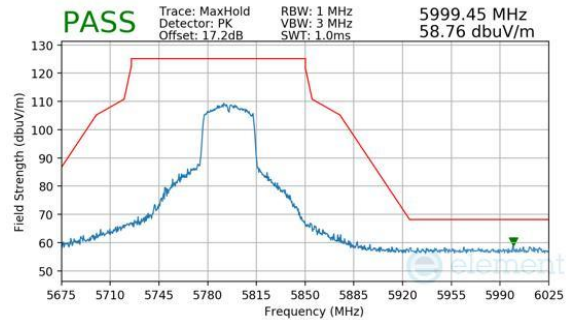
Plot 7-169. Antenna 1 (Peak & Average, Ch.118, 802.11n, MCS7)



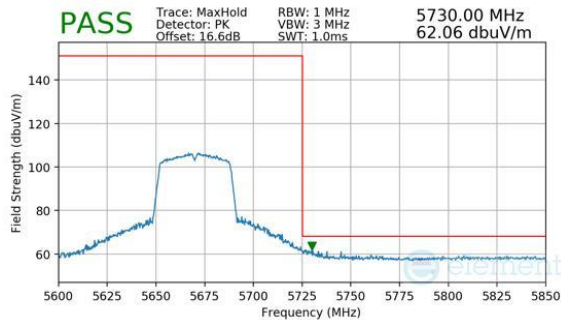
Plot 7-172. Antenna 1 (Peak, Ch.151, 802.11n, MCS7)



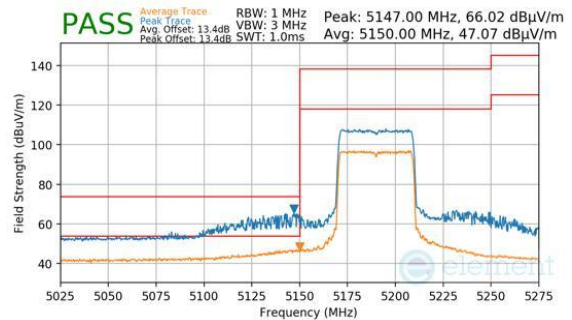
Plot 7-170. Antenna 1 (Peak, Ch.126, 802.11n, MCS7)



Plot 7-173. Antenna 1 (Peak, Ch.159, 802.11n, MCS7)

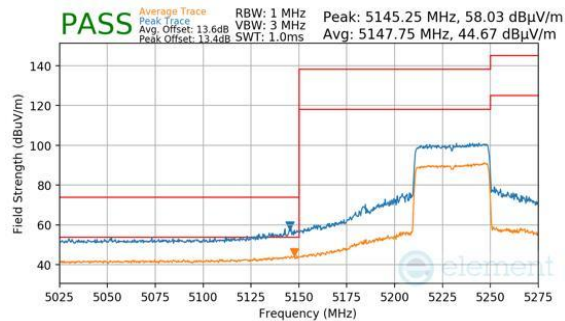


Plot 7-171. Antenna 1 (Peak, Ch.134, 802.11n, MCS7)

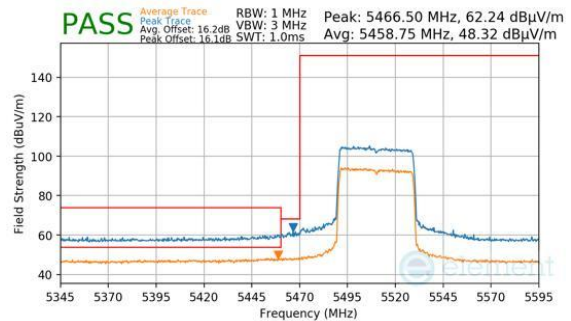


Plot 7-174. Antenna 1 (Peak & Average, Ch.38, 802.11ax(SU), MCS11)

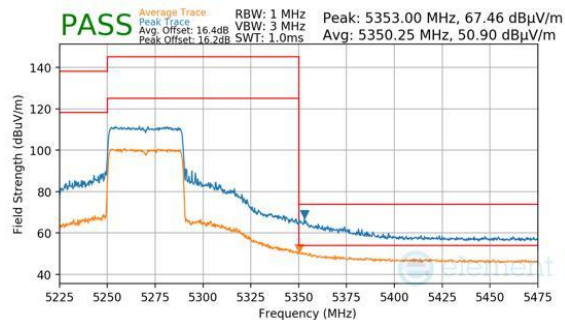
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



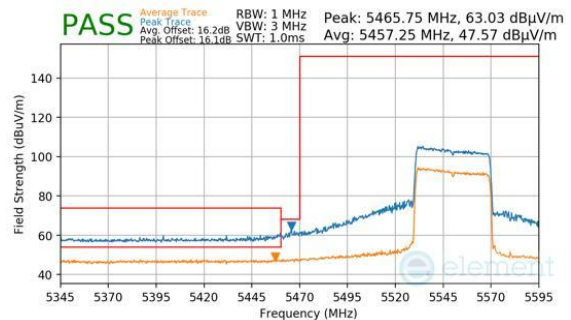
Plot 7-175. Antenna 1 (Peak & Average, Ch.46, 802.11ax(SU), MCS11)



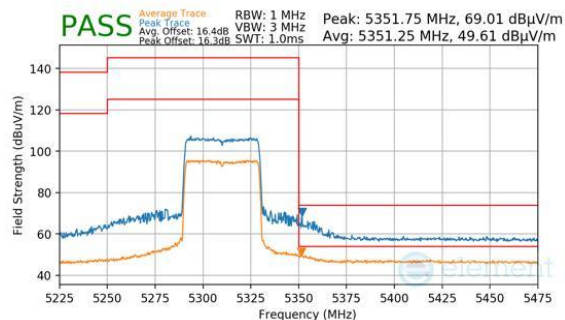
Plot 7-178. Antenna 1 (Peak & Average, Ch.102, 802.11ax(SU), MCS11)



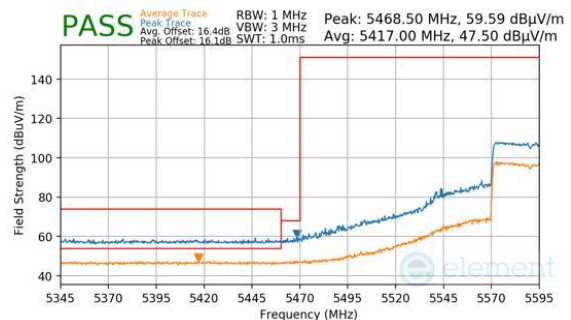
Plot 7-176. Antenna 1 (Peak & Average, Ch.54, 802.11ax(SU), MCS11)



Plot 7-179. Antenna 1 (Peak & Average, Ch.110, 802.11ax(SU), MCS11)

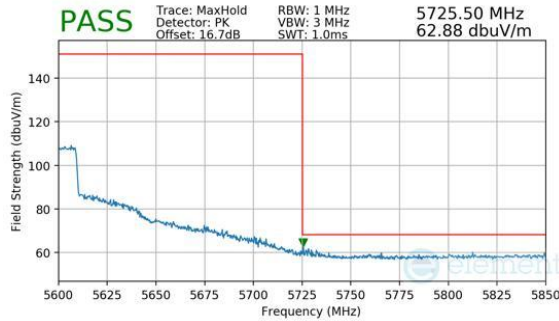


Plot 7-177. Antenna 1 (Peak & Average, Ch.62, 802.11ax(SU), MCS11)

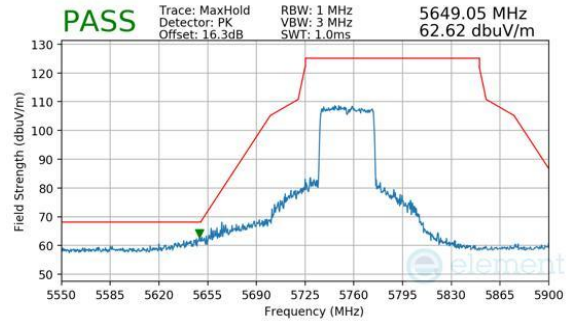


Plot 7-180. Antenna 1 (Peak & Average, Ch.118, 802.11ax(SU), MCS11)

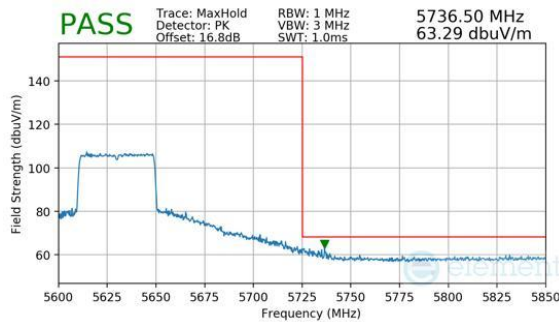
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 132 of 160



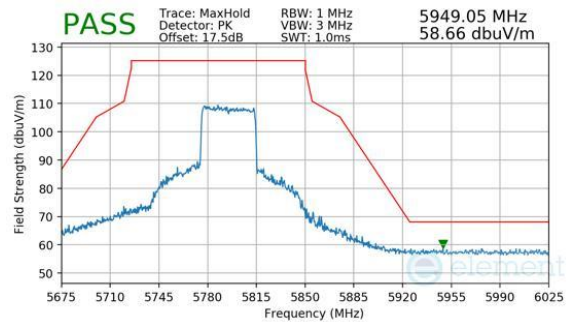
Plot 7-181. Antenna 1 (Peak, Ch.118, 802.11ax(SU), MCS11)



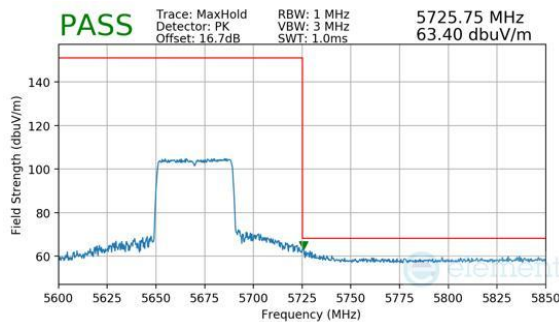
Plot 7-184. Antenna 1 (Peak, Ch.151, 802.11ax(SU), MCS11)



Plot 7-182. Antenna 1 (Peak, Ch.126, 802.11ax(SU), MCS11)



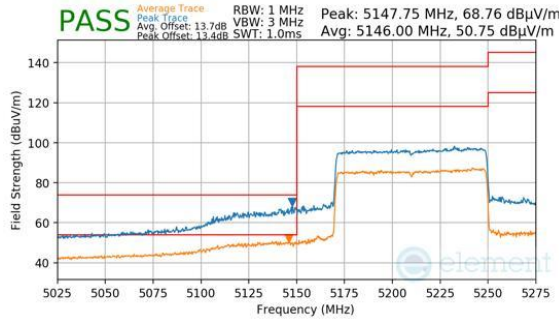
Plot 7-185. Antenna 1 (Peak, Ch.159, 802.11ax(SU), MCS11)



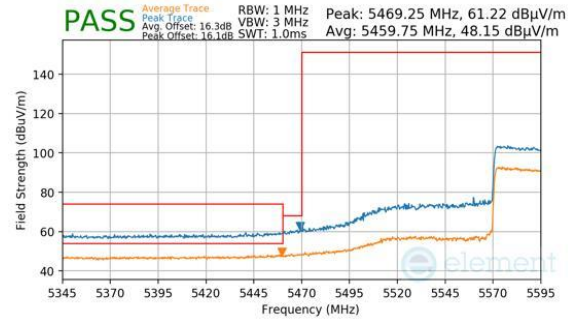
Plot 7-183. Antenna 1 (Peak, Ch.134, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 133 of 160

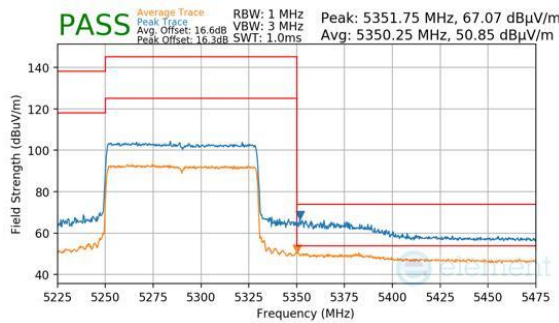
7.6.9 Antenna 1 Radiated Band Edge Measurements (80MHz BW)



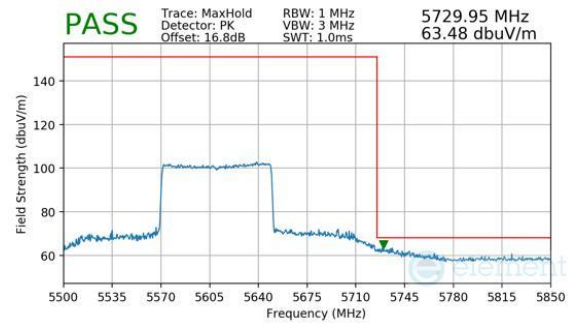
Plot 7-186. Antenna 1 (Peak & Average, Ch.42, 802.11ax(SU), MCS11)



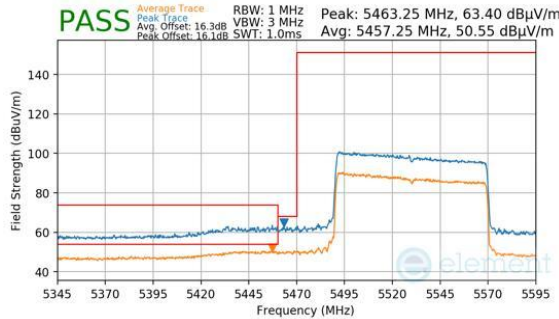
Plot 7-189. Antenna 1 (Peak & Average, Ch.122, 802.11ax(SU), MCS11)



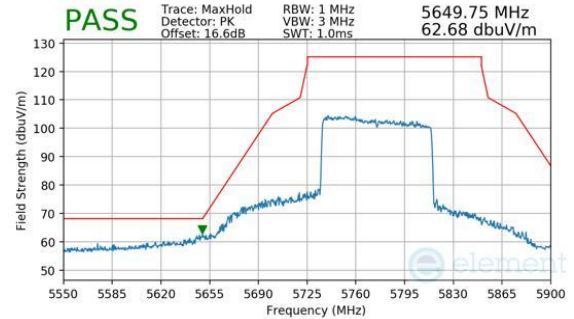
Plot 7-187. Antenna 1 (Peak & Average, Ch.58, 802.11ax(SU), MCS11)



Plot 7-190. Antenna 1 (Peak, Ch.122, 802.11ax(SU), MCS11)



Plot 7-188. Antenna 1 (Peak & Average, Ch.106, 802.11ax(SU), MCS11)



Plot 7-191. Antenna 1 (Peak, Ch.155, 802.11ax(SU), MCS11)

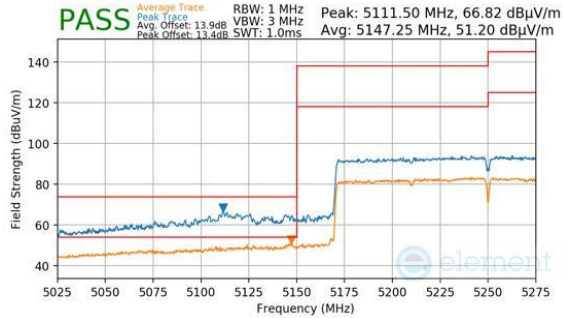
FCC ID: BCGA3218 IC: 579C-A3218	element	Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 134 of 160



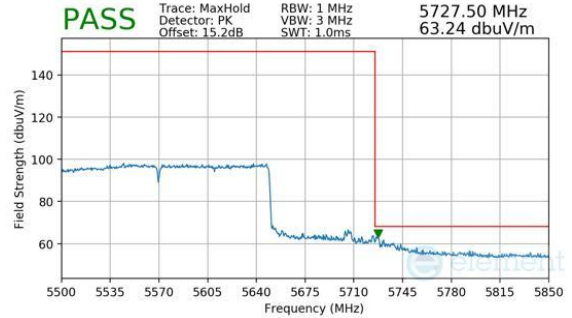
Plot 7-192. Antenna 1 (Peak, Ch.155, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 135 of 160

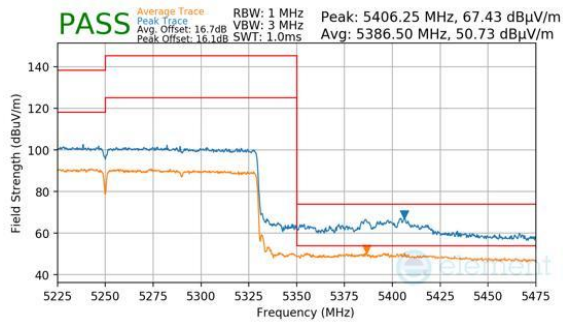
7.6.10 Antenna 1 Radiated Band Edge Measurements (160MHz BW)



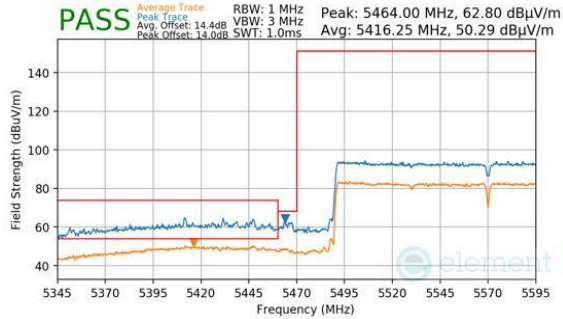
Plot 7-193. Antenna 1 (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



Plot 7-196. Antenna 1 (Peak, Ch.114, 802.11ax(SU), MCS11)

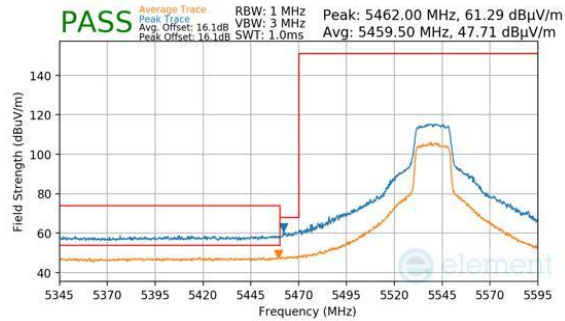


Plot 7-194. Antenna 1 (Peak & Average, Ch.50, 802.11ax(SU), MCS11)

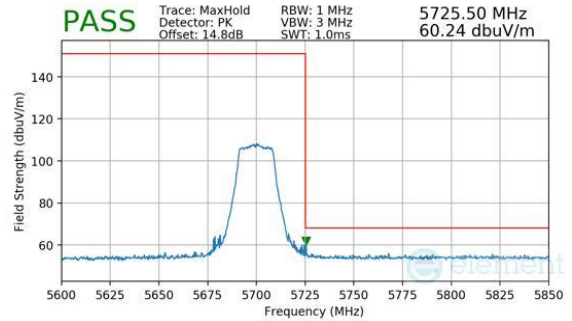


Plot 7-195. Antenna 1 (Peak & Average, Ch.114, 802.11ax(SU), MCS11)

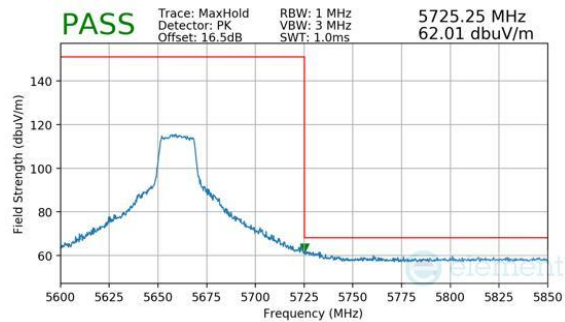
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



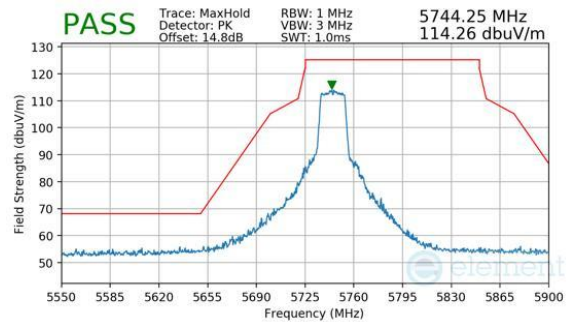
Plot 7-203. CDD (Peak & Average, Ch.108, 802.11n, MCS15)



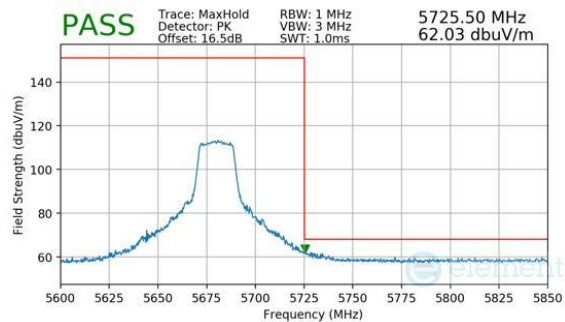
Plot 7-206. CDD (Peak, Ch.140, 802.11n, MCS15)



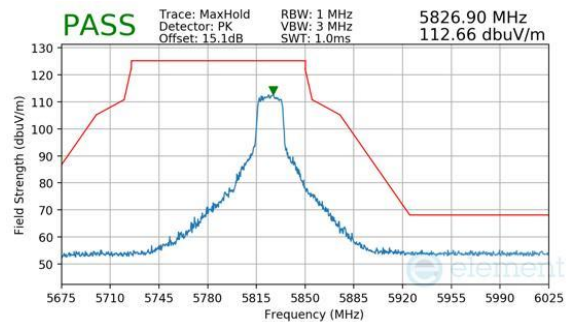
Plot 7-204. CDD (Peak, Ch.132, 802.11n, MCS15)



Plot 7-207. CDD (Peak, Ch.149, 802.11n, MCS15)

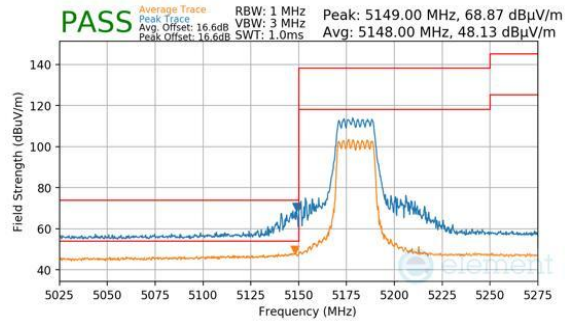


Plot 7-205. CDD (Peak, Ch.136, 802.11n, MCS15)

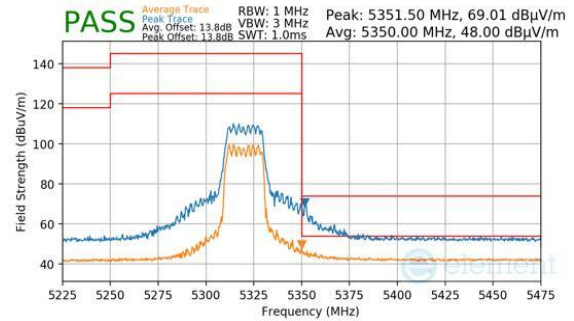


Plot 7-208. CDD (Peak, Ch.165, 802.11n, MCS15)

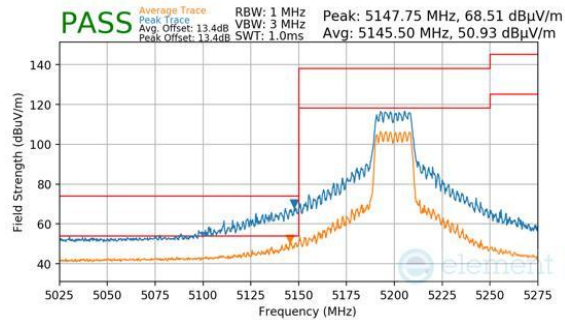
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



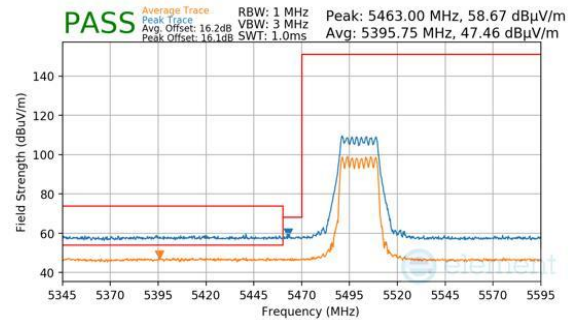
Plot 7-209. CDD (Peak & Average, Ch.36, 802.11ax(SU), MCS11)



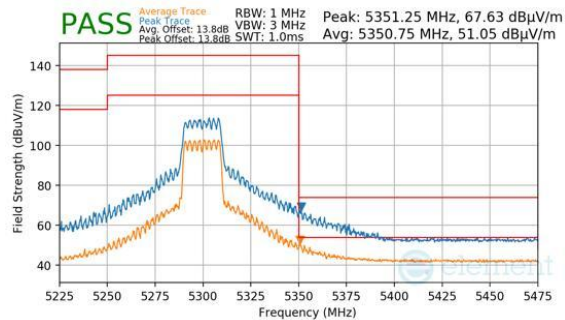
Plot 7-212. CDD (Peak & Average, Ch.64, 802.11ax(SU), MCS11)



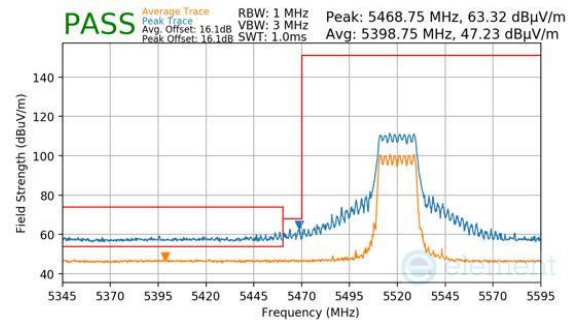
Plot 7-210. CDD (Peak & Average, Ch.40, 802.11ax(SU), MCS11)



Plot 7-213. CDD (Peak & Average, Ch.100, 802.11ax(SU), MCS11)

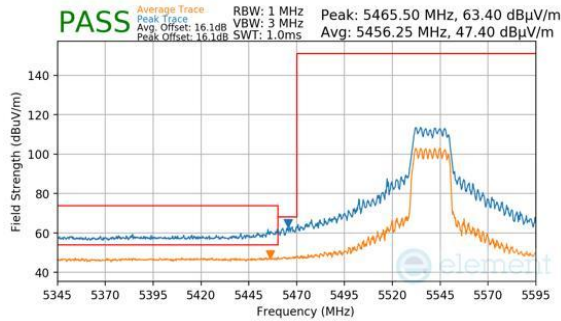


Plot 7-211. CDD (Peak & Average, Ch.60, 802.11ax(SU), MCS11)

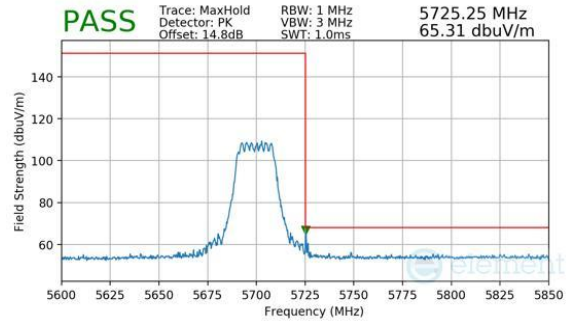


Plot 7-214. CDD (Peak & Average, Ch.104, 802.11ax(SU), MCS11)

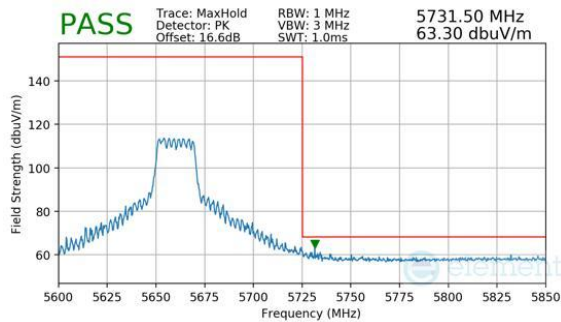
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



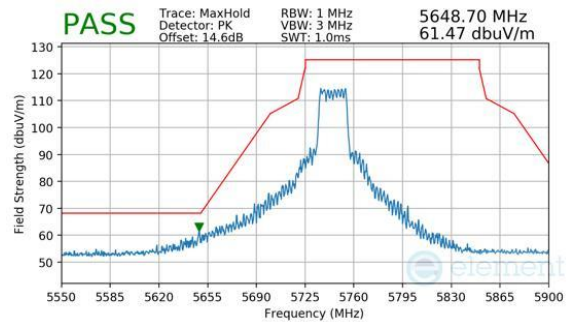
Plot 7-215. CDD (Peak & Average, Ch.108, 802.11ax(SU), MCS11)



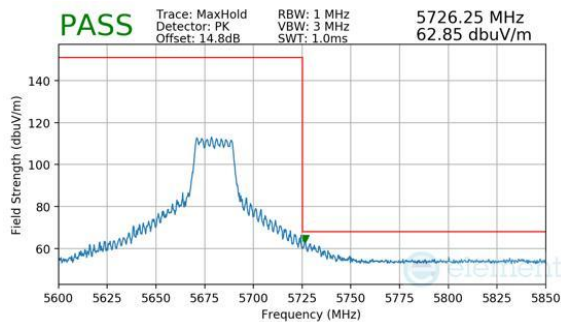
Plot 7-218. CDD (Peak, Ch.140, 802.11ax(SU), MCS11)



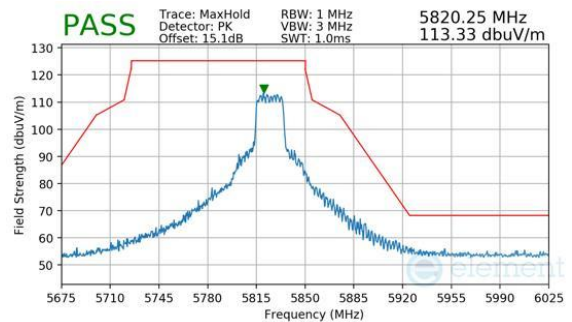
Plot 7-216. CDD (Peak, Ch.132, 802.11ax(SU), MCS11)



Plot 7-219. CDD (Peak, Ch.149, 802.11ax(SU), MCS11)



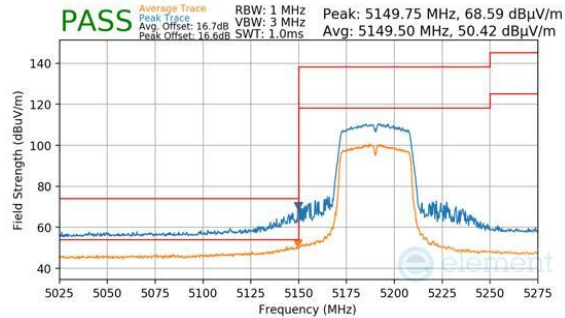
Plot 7-217. CDD (Peak, Ch.136, 802.11ax(SU), MCS11)



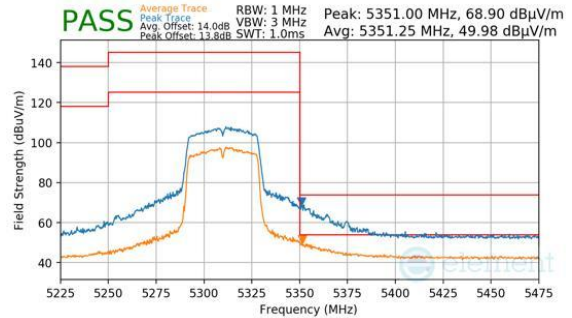
Plot 7-220. CDD (Peak, Ch.165, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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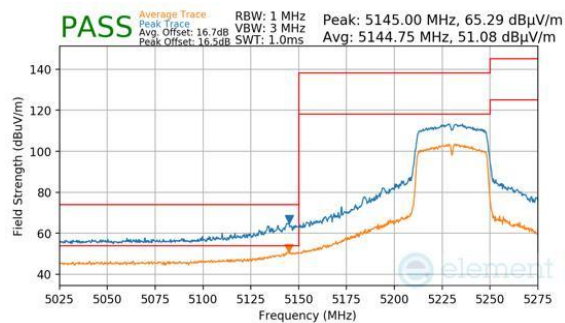
7.6.12 CDD Radiated Band Edge Measurements (40MHz BW)



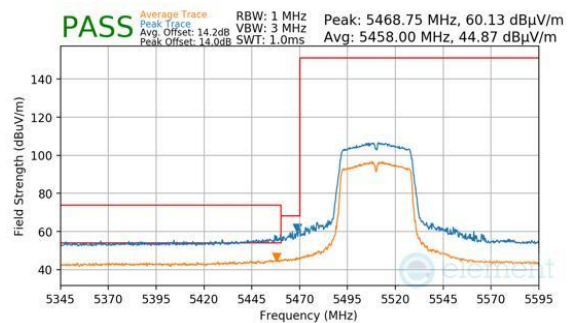
Plot 7-221. CDD (Peak & Average, Ch.38, 802.11n, MCS15)



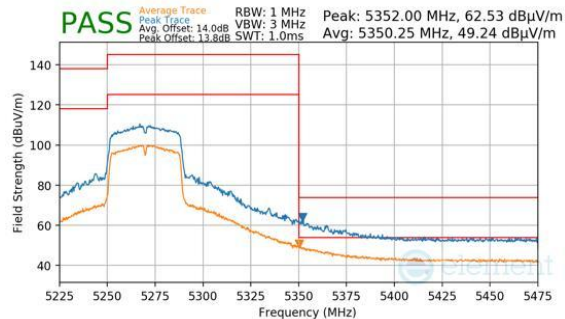
Plot 7-224. CDD (Peak & Average, Ch.62, 802.11n, MCS15)



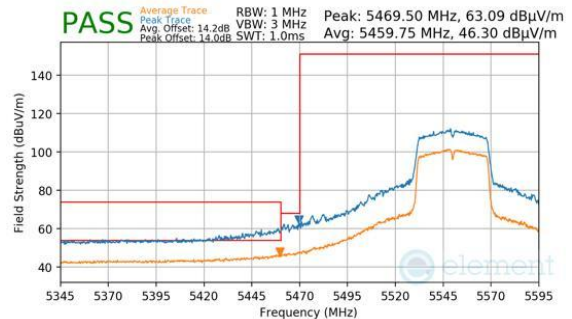
Plot 7-222. CDD (Peak & Average, Ch.46, 802.11n, MCS15)



Plot 7-225. CDD (Peak & Average, Ch.102, 802.11n, MCS15)

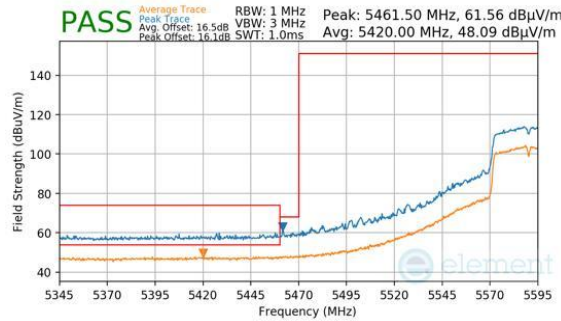


Plot 7-223. CDD (Peak & Average, Ch.54, 802.11n, MCS15)

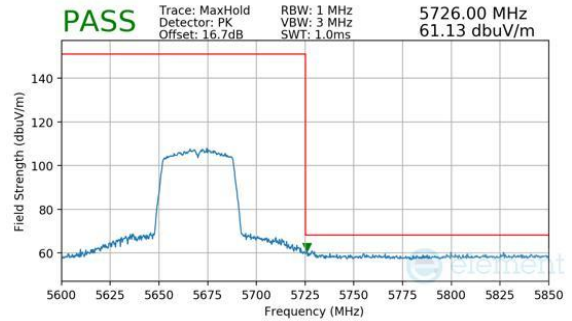


Plot 7-226. CDD (Peak & Average, Ch.110, 802.11n, MCS15)

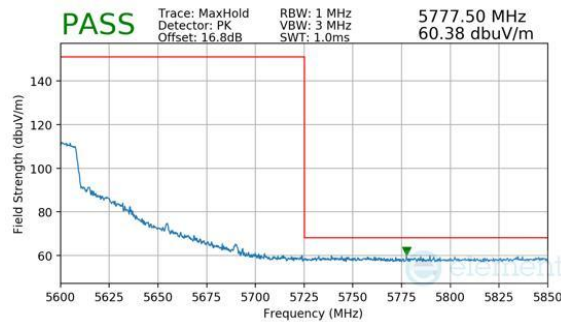
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



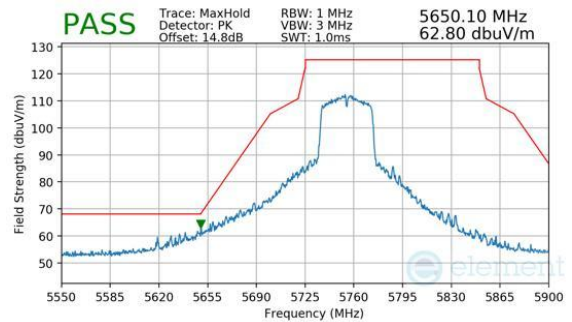
Plot 7-227. CDD (Peak & Average, Ch.118, 802.11n, MCS15)



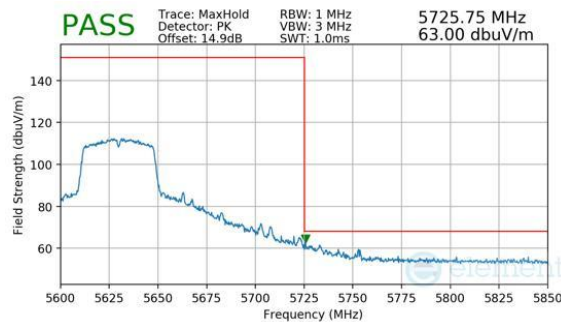
Plot 7-230. CDD (Peak, Ch.134, 802.11n, MCS15)



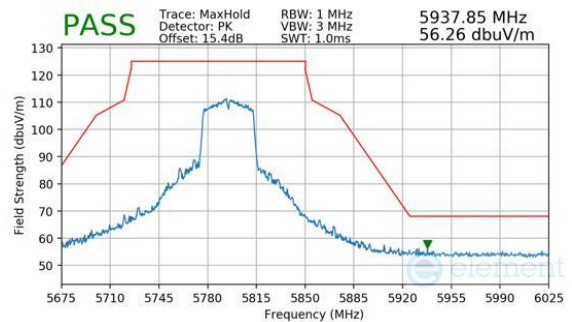
Plot 7-228. CDD (Peak, Ch.118, 802.11n, MCS15)



Plot 7-231. CDD (Peak, Ch.151, 802.11n, MCS15)

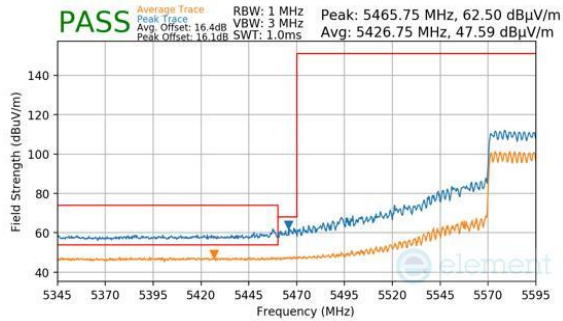


Plot 7-229. CDD (Peak, Ch.126, 802.11n, MCS15)

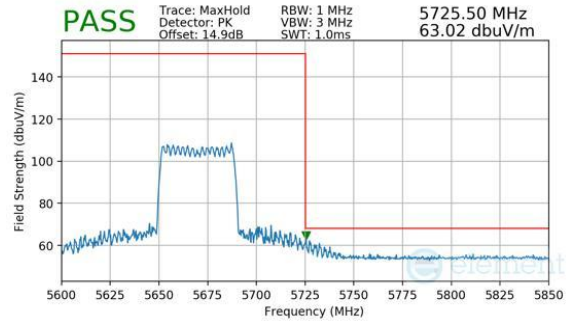


Plot 7-232. CDD (Peak, Ch.159, 802.11n, MCS15)

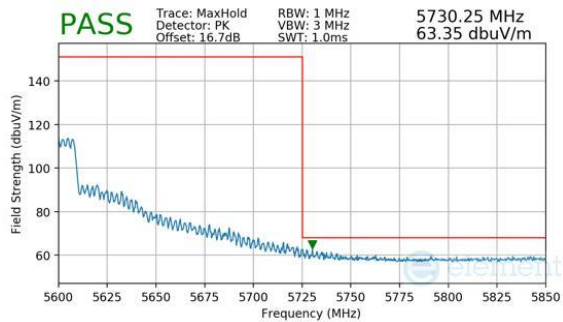
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



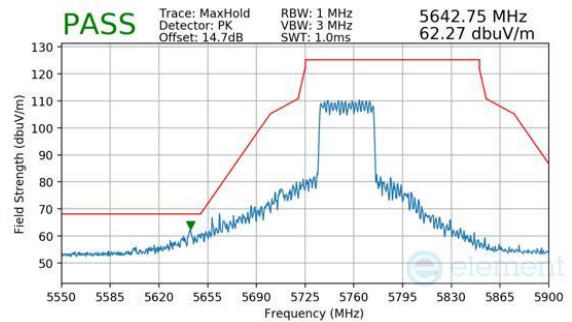
Plot 7-239. CDD (Peak & Average, Ch.118, 802.11ax(SU), MCS11)



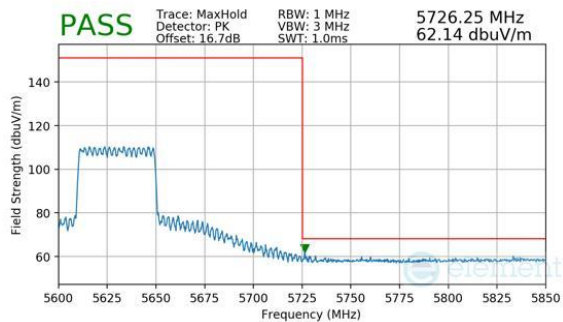
Plot 7-242. CDD (Peak, Ch.134, 802.11ax(SU), MCS11)



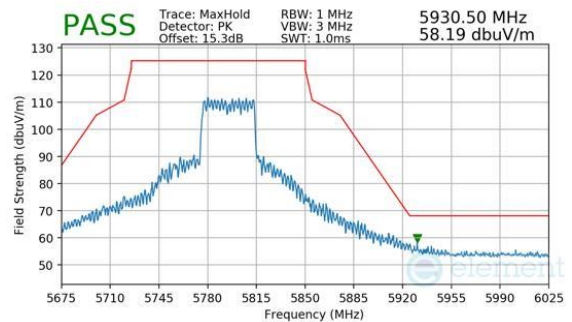
Plot 7-240. CDD (Peak, Ch.118, 802.11ax(SU), MCS11)



Plot 7-243. CDD (Peak, Ch.151, 802.11ax(SU), MCS11)



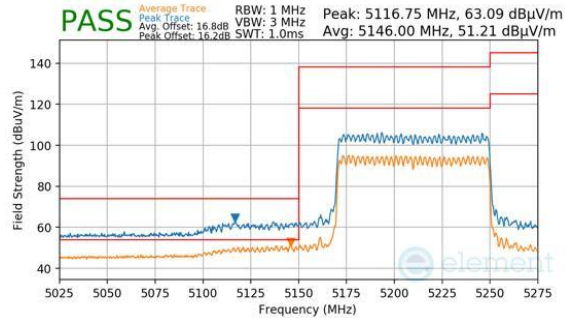
Plot 7-241. CDD (Peak, Ch.126, 802.11ax(SU), MCS11)



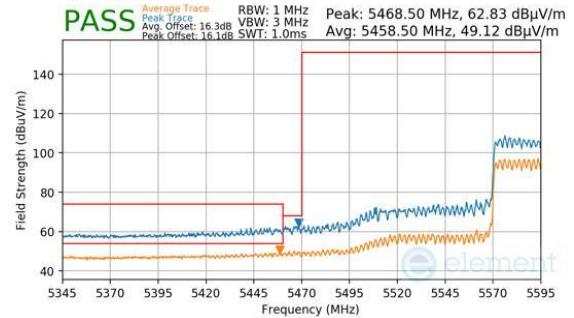
Plot 7-244. CDD (Peak, Ch.159, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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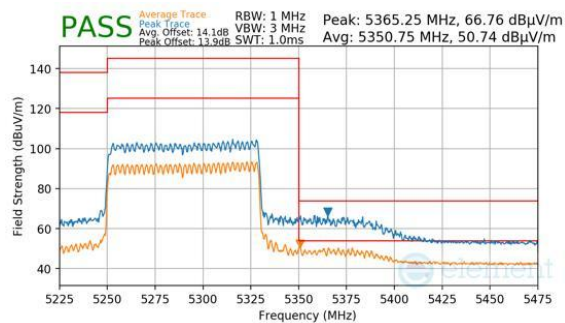
7.6.13 CDD Radiated Band Edge Measurements (80MHz BW)



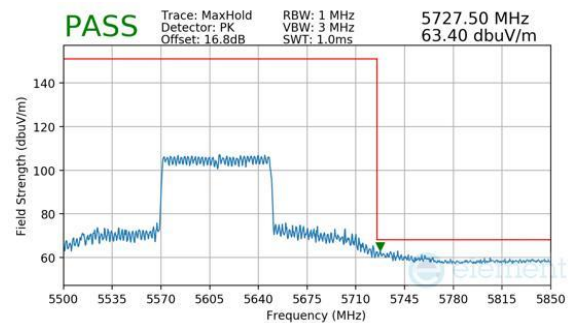
Plot 7-245. CDD (Peak & Average, Ch.42, 802.11ax(SU), MCS11)



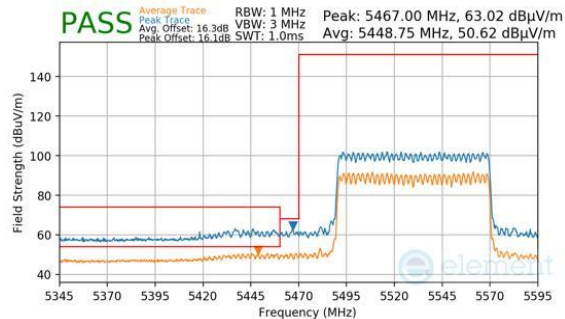
Plot 7-248. CDD (Peak & Average, Ch.122, 802.11ax(SU), MCS11)



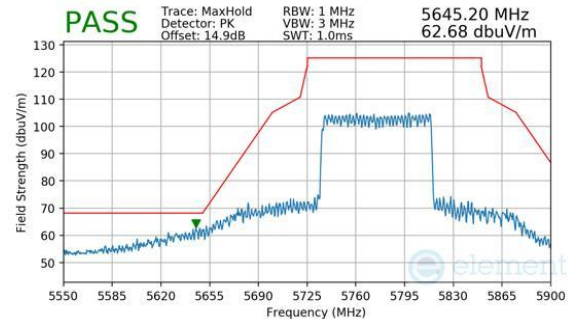
Plot 7-246. CDD (Peak & Average, Ch.58, 802.11ax(SU), MCS11)



Plot 7-249. CDD (Peak, Ch.122, 802.11ax(SU), MCS11)

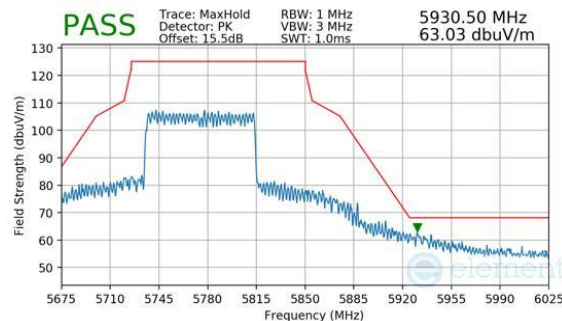


Plot 7-247. CDD (Peak & Average, Ch.106, 802.11ax(SU), MCS11)



Plot 7-250. CDD (Peak, Ch.155, 802.11ax(SU), MCS11)

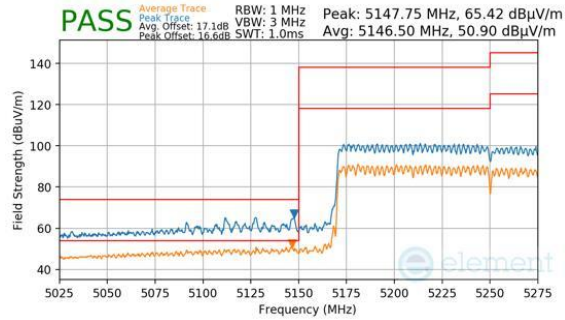
FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 145 of 160



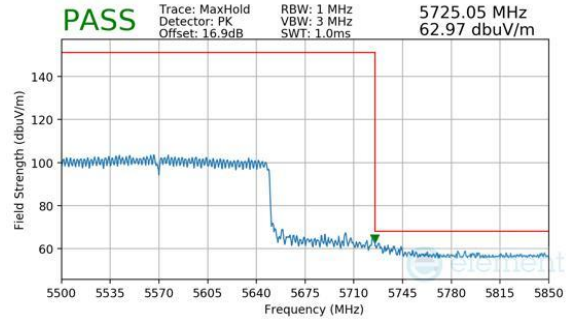
Plot 7-251. CDD (Peak, Ch.155, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 146 of 160

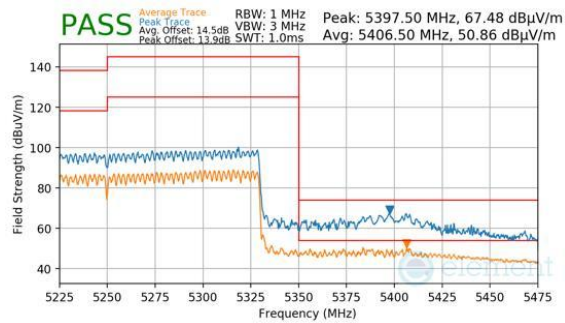
7.6.14 CDD Radiated Band Edge Measurements (160MHz BW)



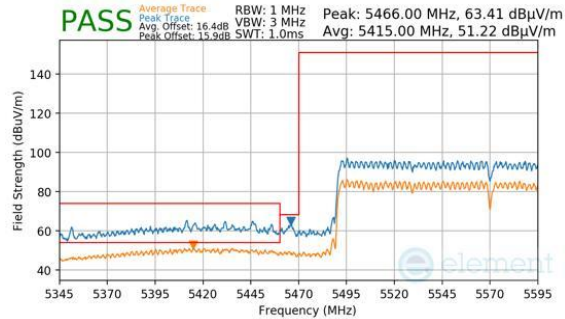
Plot 7-252. CDD (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



Plot 7-255. CDD (Peak, Ch.114, 802.11ax(SU), MCS11)



Plot 7-253. CDD (Peak & Average, Ch.50, 802.11ax(SU), MCS11)



Plot 7-254. CDD (Peak & Average, Ch.114, 802.11ax(SU), MCS11)

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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.		

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 6 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

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. VBW = 300kHz
4. Detector = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 148 of 160

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

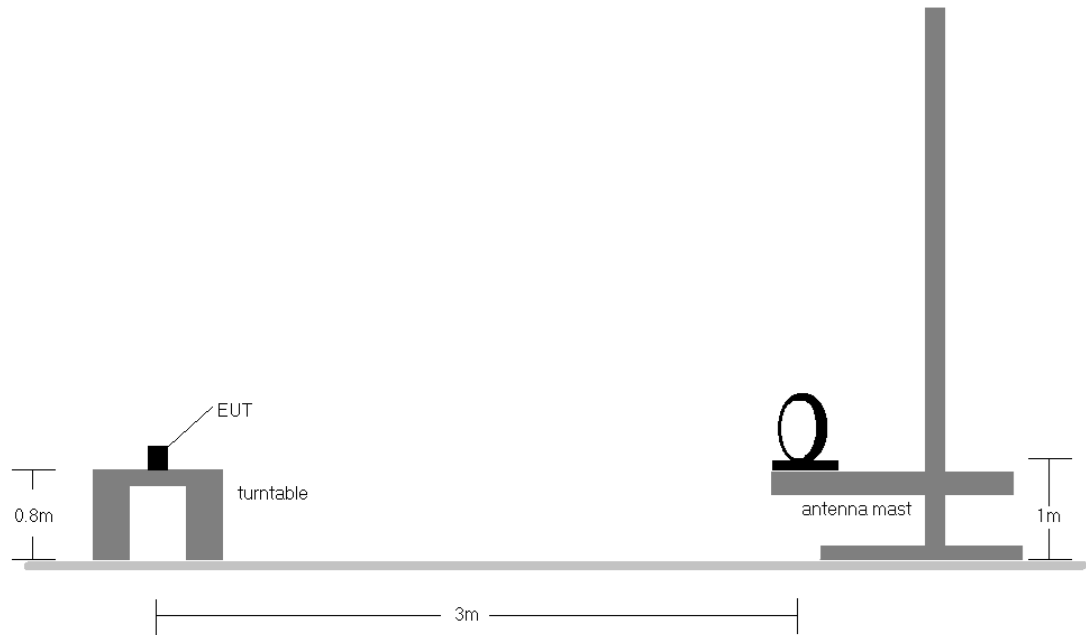


Figure 7-6. Radiated Test Setup < 30MHz

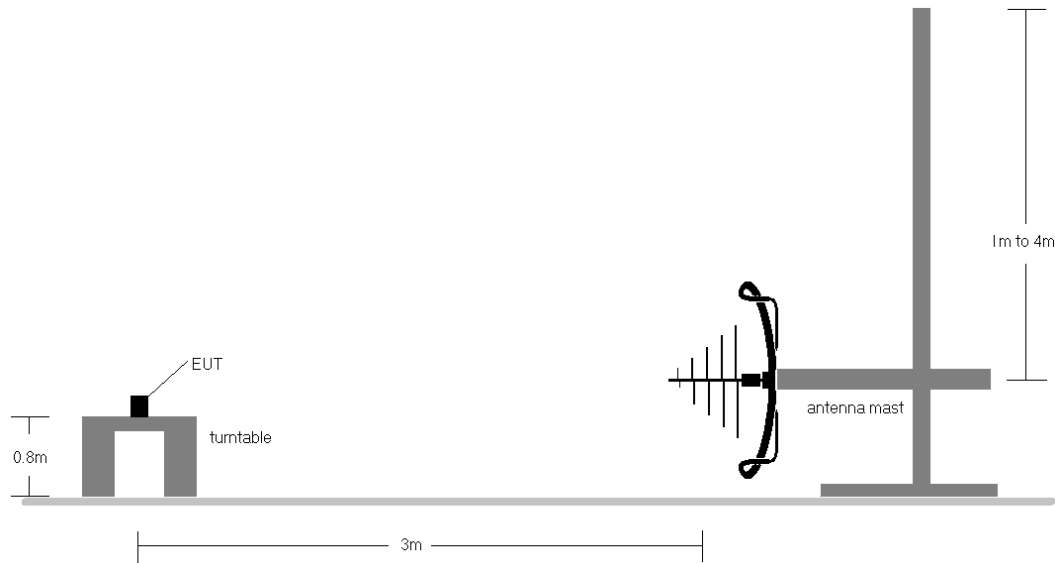


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	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 three screen angles. 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. EUT 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 following configuration was investigated and EUT powered by AC/DC was the worst case.
 - a. EUT powered by an AC/DC Adapter via USB-C Cable
10. All antenna configurations were investigated and only the worst case is reported.
11. The unit was tested with all possible modes and only the highest emission is reported.

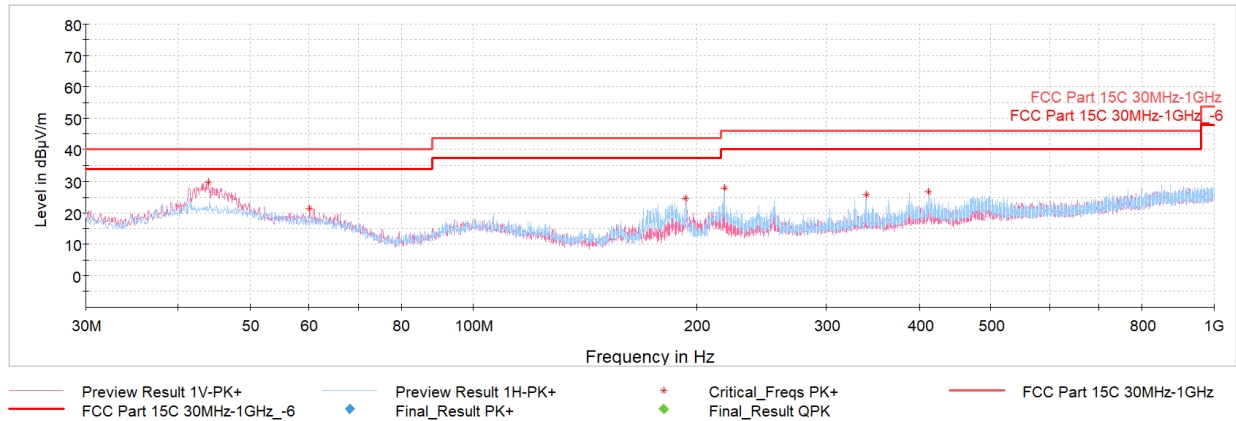
Sample Calculations

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: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.7.1 CDD Radiated Spurious Emissions Measurements (Below 1GHz)

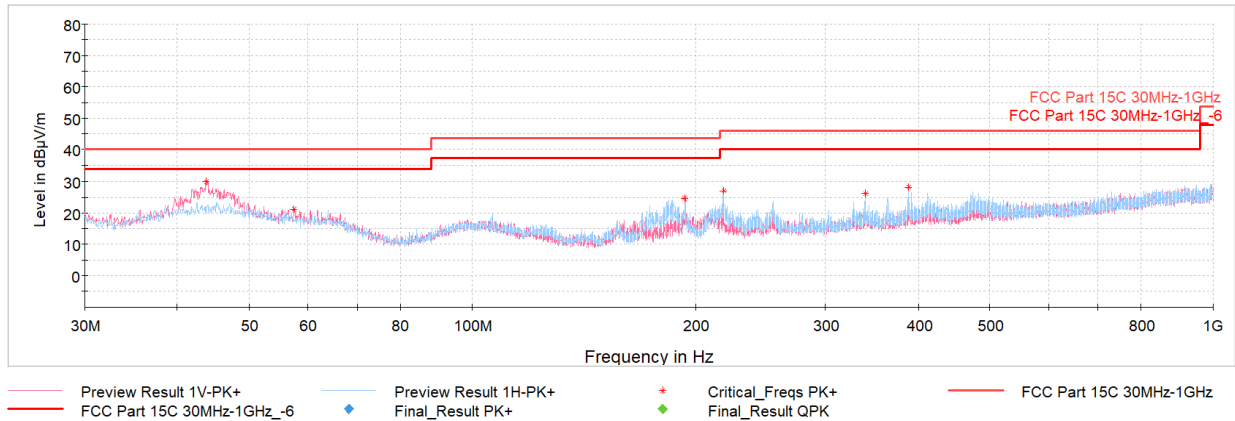


Plot 7-256. Radiated Spurious Emissions below 1GHz CDD, 802.11n, Ch.36 powered by AC/DC Adapter via USB-C Cable

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]
43.87	Max-Peak	V	100	17	-62.75	-14.76	29.49	40.00	-10.51
60.22	Max-Peak	V	100	252	-69.72	-15.84	21.44	40.00	-18.56
193.64	Max-Peak	V	100	355	-66.23	-16.09	24.68	43.52	-18.84
218.47	Max-Peak	H	100	182	-63.46	-15.84	27.70	46.02	-18.32
339.24	Max-Peak	H	100	307	-69.34	-11.92	25.74	46.02	-20.28
412.57	Max-Peak	H	100	60	-70.40	-10.07	26.53	46.02	-19.49

Table 7-98. Radiated Spurious Emissions below 1GHz CDD, 802.11n, Ch.36 powered by AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 151 of 160



Plot 7-257. Radiated Spurious Emissions below 1GHz CDD, 802.11ax (SU), Ch.36 powered by 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]
43.73	Max-Peak	V	100	15	-62.40	-14.79	29.81	40.00	-10.19
57.50	Max-Peak	V	100	233	-70.78	-15.11	21.11	40.00	-18.89
193.69	Max-Peak	V	100	333	-66.44	-16.09	24.47	43.52	-19.05
218.42	Max-Peak	H	100	188	-64.28	-15.84	26.88	46.02	-19.14
339.67	Max-Peak	H	100	301	-69.11	-11.93	25.96	46.02	-20.06
388.27	Max-Peak	H	100	318	-68.13	-10.68	28.19	46.02	-17.83

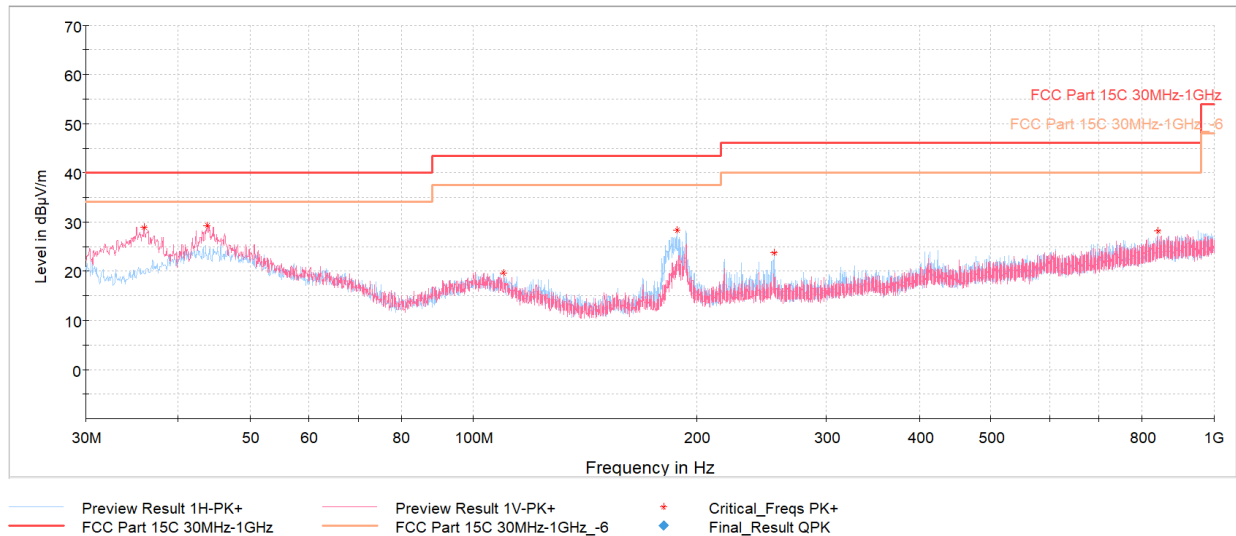
Table 7-99. Radiated Spurious Emissions below 1GHz CDD, 802.11ax (SU), Ch.36 powered by AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 160

7.7.2 Simultaneous TX Radiated Spurious Emissions Measurements (Below 1GHz)

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 7-258. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz, powered by 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]
35.97	Max-Peak	V	100	85	-60.12	-17.97	28.91	40.00	-11.09
43.82	Max-Peak	V	100	39	-62.17	-15.58	29.25	40.00	-10.75
109.98	Max-Peak	V	200	285	-68.92	-18.38	19.70	43.52	-23.82
188.60	Max-Peak	H	100	312	-59.89	-18.76	28.35	43.52	-15.17
254.75	Max-Peak	H	100	87	-67.20	-16.07	23.73	46.02	-22.29
840.77	Max-Peak	H	100	124	-73.86	-4.91	28.23	46.02	-17.79

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

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-06-R3.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 160

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

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Test Setup

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

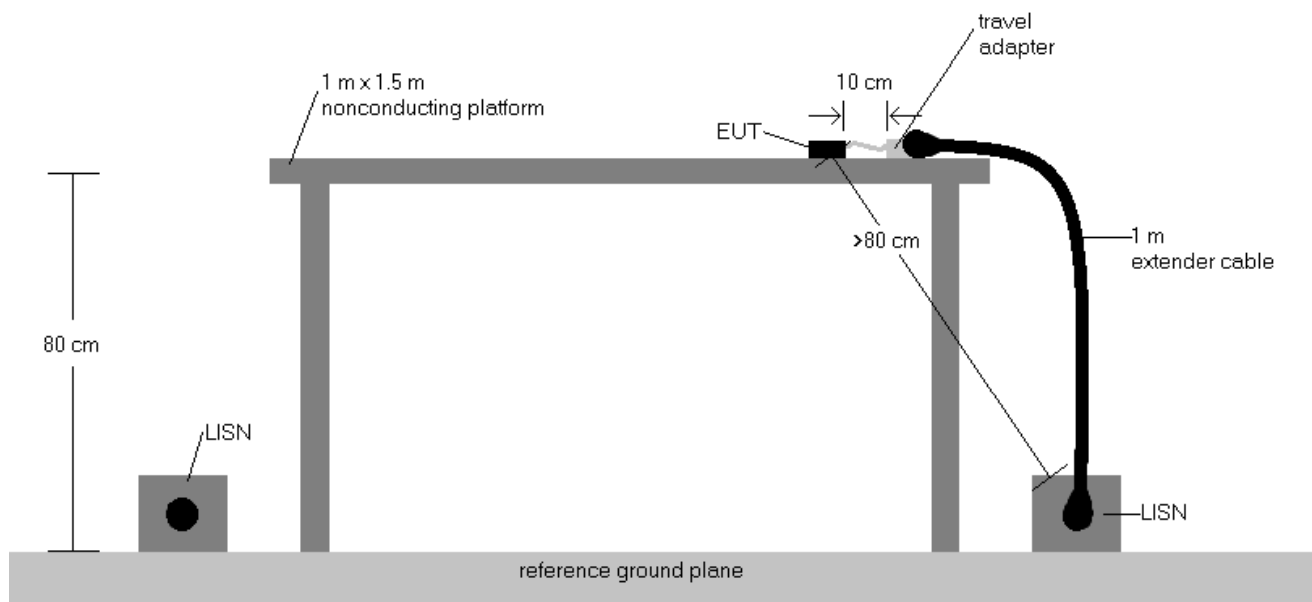
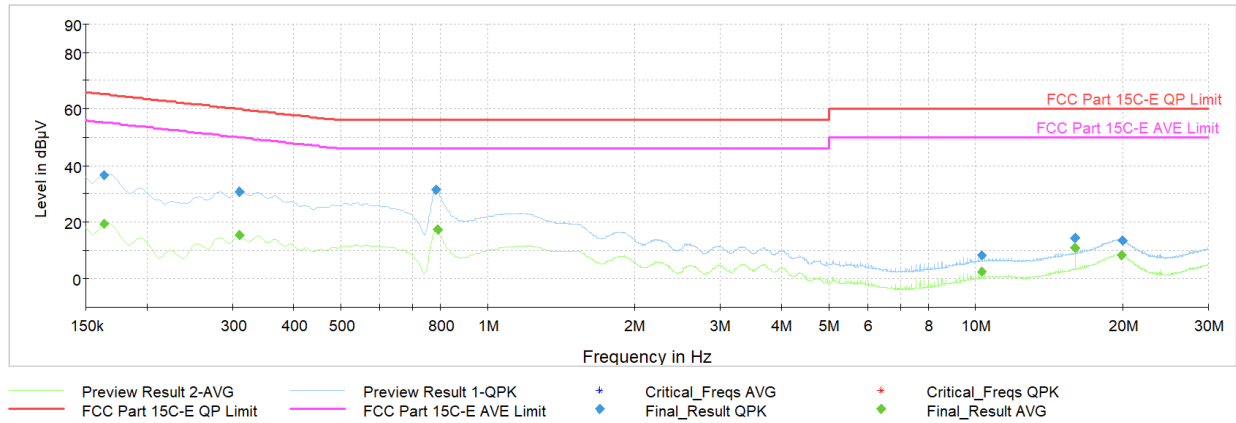


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 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.
- The following configuration was investigated and EUT powered by AC/DC was the worst case.
 - EUT powered by an AC/DC Adapter via USB-C Cable
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (7.4.2).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

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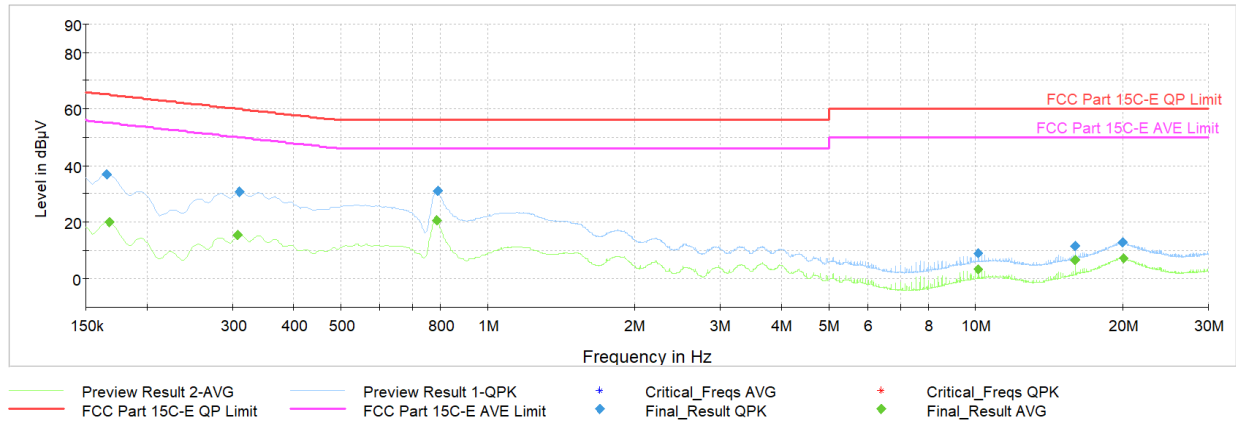


Plot 7-259. AC Line Conducted Plot with 802.11n CDD – Ch.40 (L1), powered by AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	—	19.31	55.28	-35.98	L1	GND
0.164	FINAL	36.6	—	65.28	-28.69	L1	GND
0.310	FINAL	—	15.32	49.98	-34.65	L1	GND
0.310	FINAL	30.8	—	59.98	-29.14	L1	GND
0.782	FINAL	31.2	—	56.00	-24.76	L1	GND
0.789	FINAL	—	17.43	46.00	-28.57	L1	GND
10.284	FINAL	8.4	—	60.00	-51.65	L1	GND
10.284	FINAL	—	2.45	50.00	-47.55	L1	GND
15.965	FINAL	14.5	—	60.00	-45.51	L1	GND
15.965	FINAL	—	10.75	50.00	-39.25	L1	GND
19.955	FINAL	—	8.14	50.00	-41.86	L1	GND
19.957	FINAL	13.5	—	60.00	-46.51	L1	GND

Table 7-103. AC Line Conducted Data with 802.11n CDD – Ch.40 (L1) powered by AC/DC Adapter via USB-C Cable

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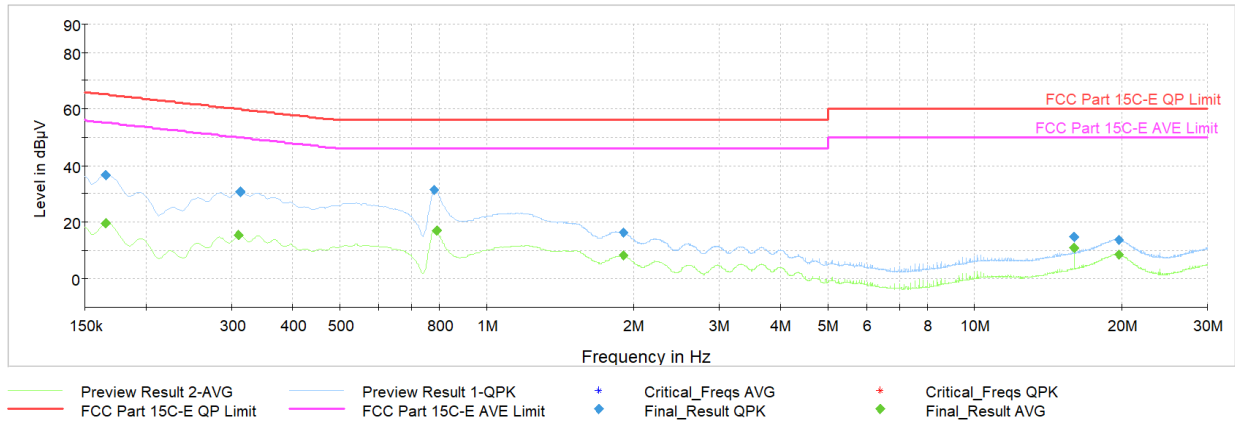


Plot 7-260. AC Line Conducted Plot with 802.11n CDD – Ch.40 (N), powered by AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.166	FINAL	36.8	—	65.17	-28.42	N	GND
0.168	FINAL	—	20.02	55.06	-35.04	N	GND
0.308	FINAL	—	15.26	50.04	-34.78	N	GND
0.310	FINAL	30.6	—	59.98	-29.33	N	GND
0.787	FINAL	—	20.74	46.00	-25.26	N	GND
0.789	FINAL	31.0	—	56.00	-25.00	N	GND
10.131	FINAL	9.1	—	60.00	-50.95	N	GND
10.133	FINAL	—	3.50	50.00	-46.50	N	GND
15.979	FINAL	11.4	—	60.00	-48.65	N	GND
15.979	FINAL	—	6.71	50.00	-43.29	N	GND
19.957	FINAL	12.7	—	60.00	-47.34	N	GND
20.110	FINAL	—	7.20	50.00	-42.80	N	GND

Table 7-104. AC Line Conducted Data with 802.11n CDD – Ch.40 (N), powered by AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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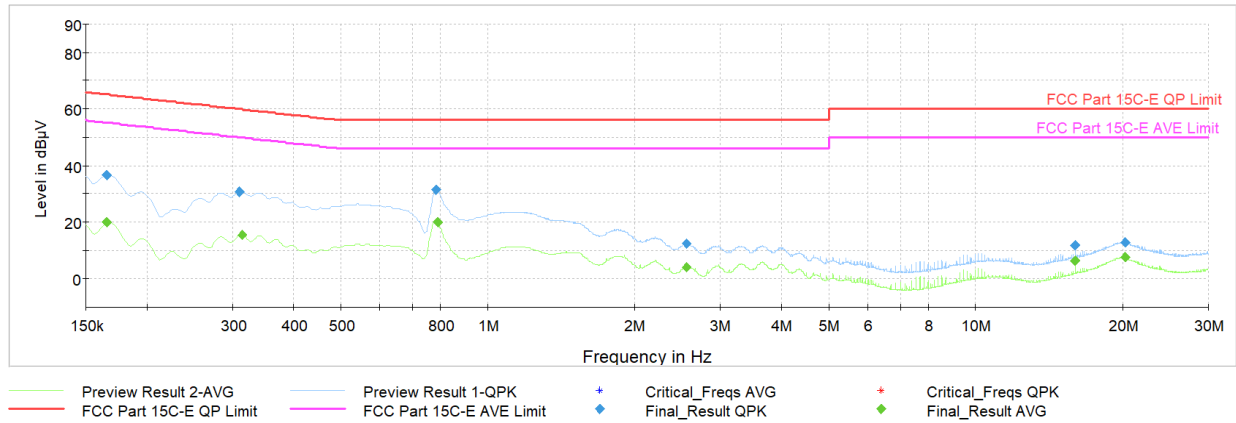


Plot 7-261. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.40 (L1), powered by AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.166	FINAL	—	19.53	55.17	-35.64	L1	GND
0.166	FINAL	36.6	—	65.17	-28.55	L1	GND
0.310	FINAL	—	15.32	49.98	-34.66	L1	GND
0.312	FINAL	30.7	—	59.92	-29.22	L1	GND
0.780	FINAL	31.3	—	56.00	-24.70	L1	GND
0.791	FINAL	—	17.14	46.00	-28.86	L1	GND
1.903	FINAL	—	8.20	46.00	-37.80	L1	GND
1.905	FINAL	16.4	—	56.00	-39.59	L1	GND
15.970	FINAL	14.6	—	60.00	-45.40	L1	GND
15.970	FINAL	—	10.77	50.00	-39.23	L1	GND
19.730	FINAL	—	8.52	50.00	-41.48	L1	GND
19.734	FINAL	13.8	—	60.00	-46.23	L1	GND

Table 7-105. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.40 (L1) powered by AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Plot 7-262. AC Line Conducted Plot with 802.11ax(SU) CDD – Ch.40 (N), powered by AC/DC Adapter via USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.166	FINAL	—	19.86	55.17	-35.31	N	GND
0.166	FINAL	36.6	—	65.17	-28.62	N	GND
0.310	FINAL	30.6	—	59.98	-29.37	N	GND
0.314	FINAL	—	15.40	49.86	-34.46	N	GND
0.782	FINAL	31.3	—	56.00	-24.70	N	GND
0.791	FINAL	—	20.09	46.00	-25.91	N	GND
2.555	FINAL	12.4	—	56.00	-43.64	N	GND
2.558	FINAL	—	4.10	46.00	-41.90	N	GND
15.970	FINAL	11.7	—	60.00	-48.27	N	GND
15.972	FINAL	—	6.38	50.00	-43.62	N	GND
20.256	FINAL	—	7.52	50.00	-42.48	N	GND
20.256	FINAL	12.9	—	60.00	-47.11	N	GND

Table 7-106. AC Line Conducted Data with 802.11ax(SU) CDD – Ch.40 (N), powered by AC/DC Adapter via USB-C Cable

FCC ID: BCGA3218 IC: 579C-A3218		Test Dates: 10/14/2024 - 1/15/2026	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Smart Speaker with Display FCC ID: BCGA3218** and **IC: 579C-A3218** 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.

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