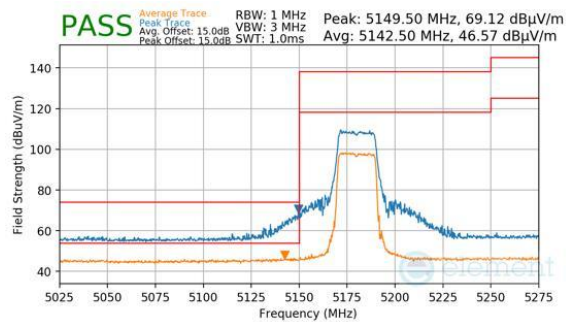
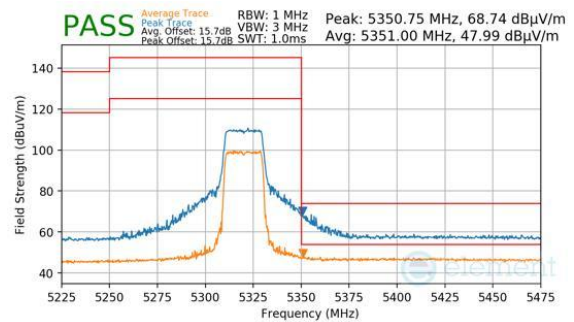


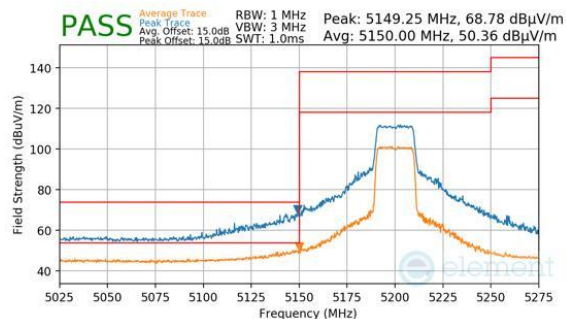
RU242



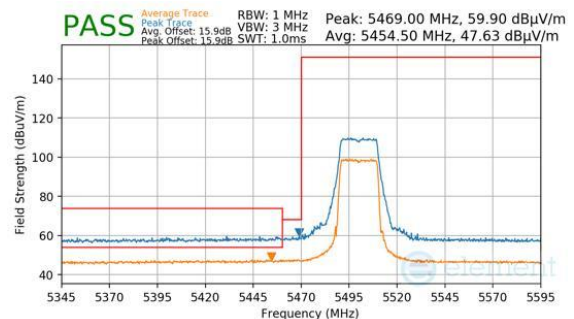
Plot 7-174. Antenna 1 (Peak & Average, RU242, Index 61, Ch.36, MCS11)



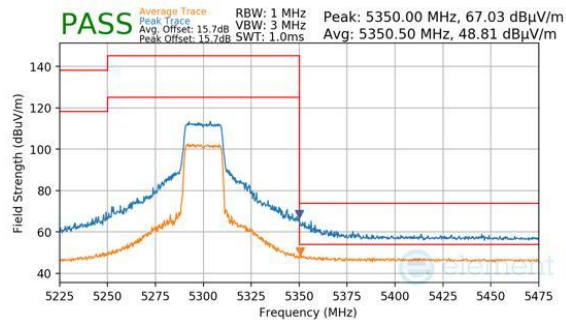
Plot 7-177. Antenna 1 (Peak & Average, RU242, Index 61, Ch.64, MCS11)



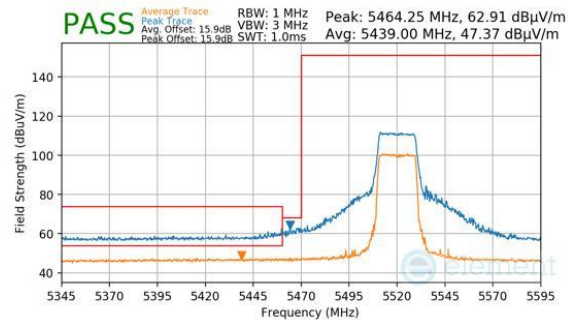
Plot 7-175. Antenna 1 (Peak & Average, RU242, Index 61, Ch.40, MCS11)



Plot 7-178. Antenna 1 (Peak & Average, RU242, Index 61, Ch.100, MCS11)

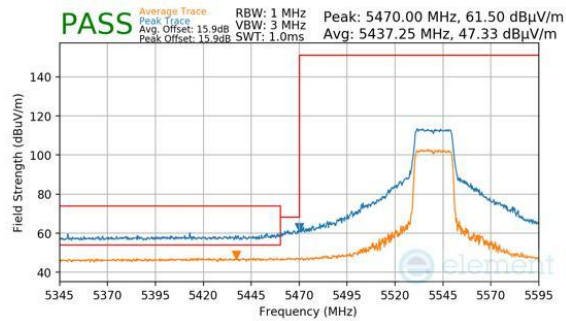


Plot 7-176. Antenna 1 (Peak & Average, RU242, Index 61, Ch.60, MCS11)

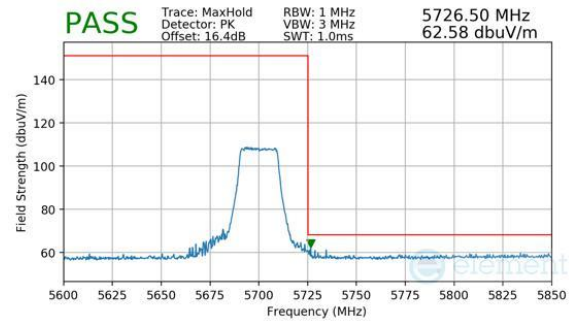


Plot 7-179. Antenna 1 (Peak & Average, RU242, Index 61, Ch.104, MCS11)

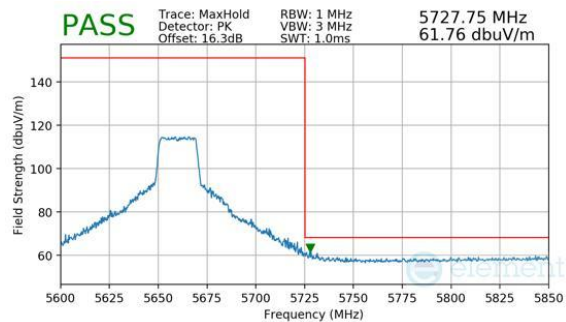
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 125 of 164



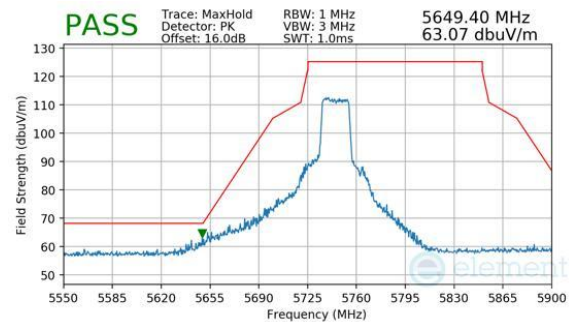
Plot 7-180. Antenna 1 (Peak & Average, RU242, Index 61, Ch.108, MCS11)



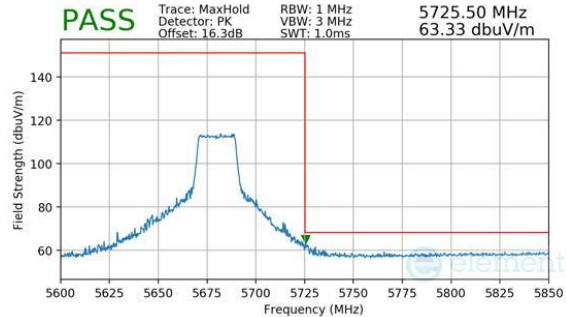
Plot 7-183. Antenna 1 (Peak, RU242, Index 61, Ch.140, MCS11)



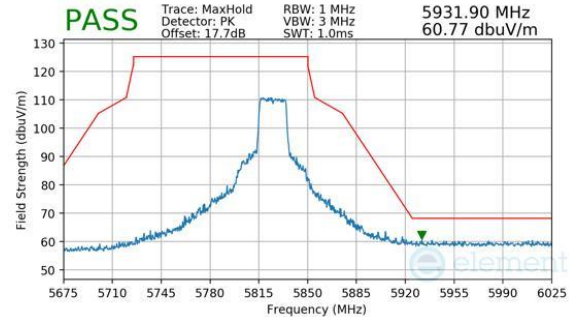
Plot 7-181. Antenna 1 (Peak, RU242, Index 61, Ch.132, MCS11)



Plot 7-184. Antenna 1 (Peak, RU242, Index 61, Ch.149, MCS11)



Plot 7-182. Antenna 1 (Peak, RU242, Index 61, Ch.136, MCS11)

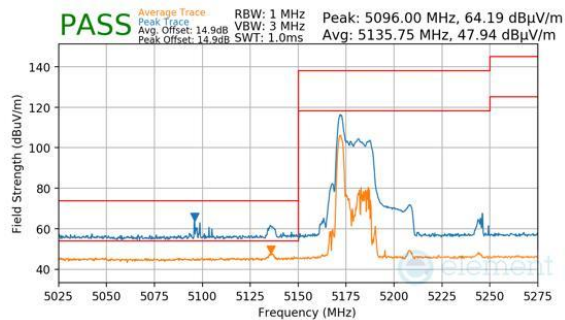


Plot 7-185. Antenna 1 (Peak, RU242, Index 61, Ch.165, MCS11)

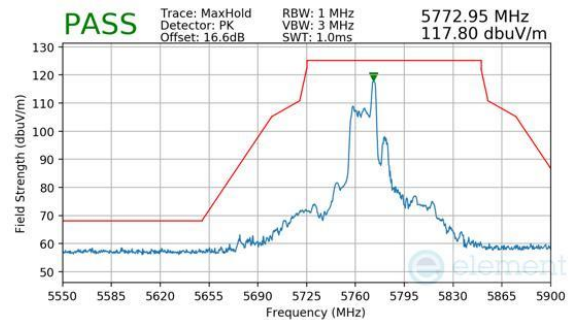
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 126 of 164

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

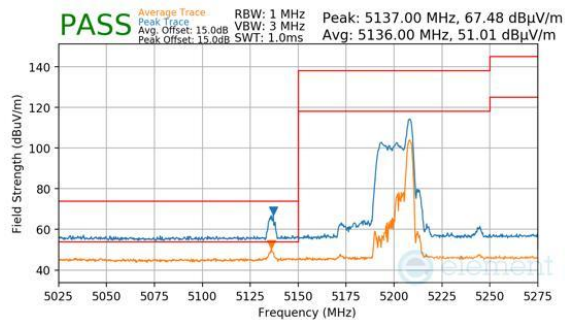
RU26



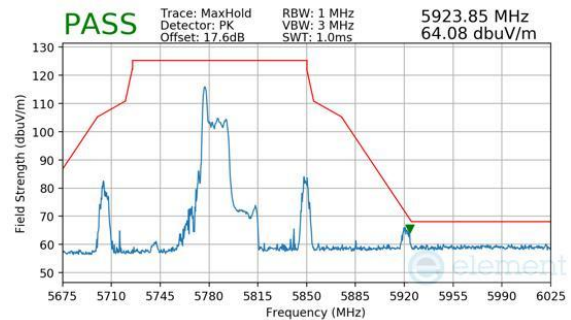
Plot 7-186. Antenna 1 (Peak & Average, RU26, Index 0, Ch.38, MCS11)



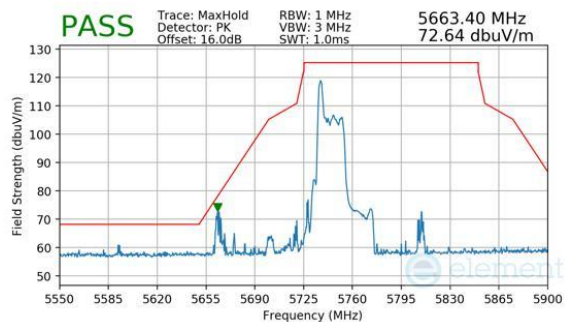
Plot 7-189. Antenna 1 (Peak, RU26, Index 17, Ch.151, MCS11)



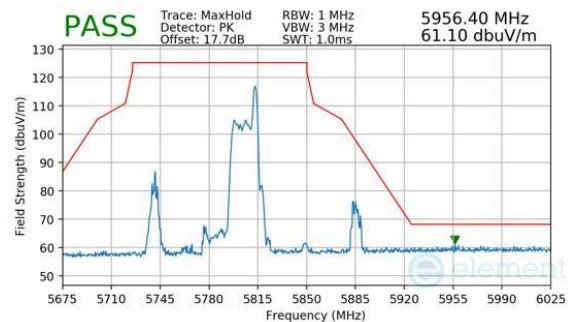
Plot 7-187. Antenna 1 (Peak & Average, RU26, Index 17, Ch.38, MCS11)



Plot 7-190. Antenna 1 (Peak, RU26, Index 0, Ch.159, MCS11)



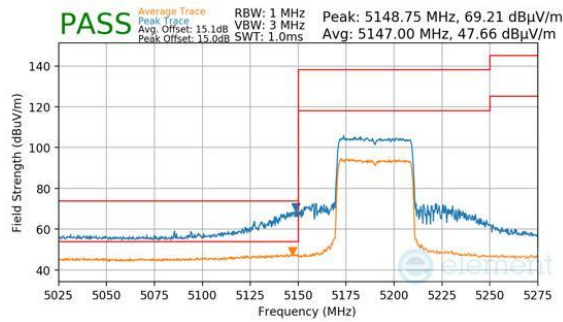
Plot 7-188. Antenna 1 (Peak, RU26, Index 0, Ch.151, MCS11)



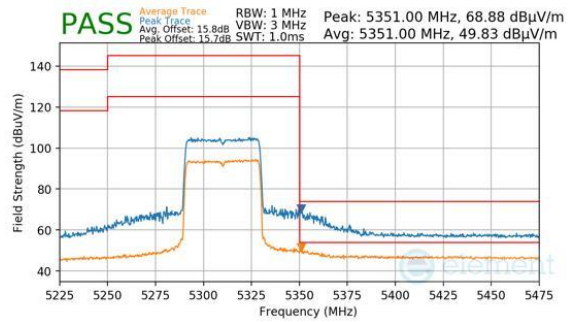
Plot 7-191. Antenna 1 (Peak, RU26, Index 17, Ch.159, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 127 of 164

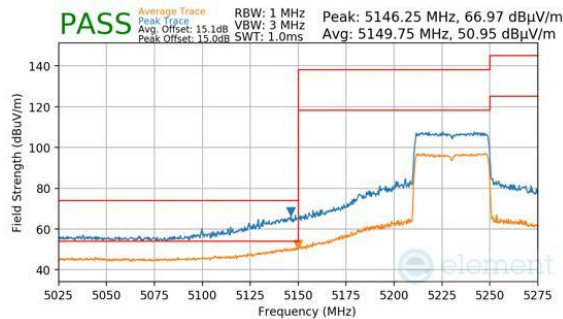
RU484



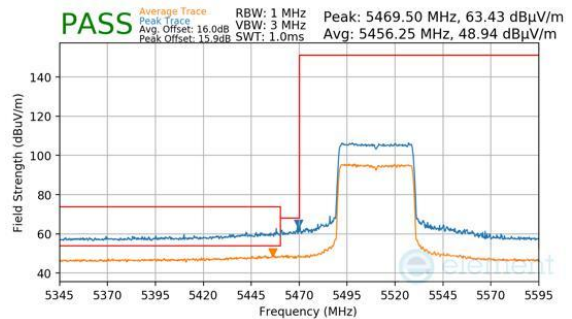
Plot 7-198. Antenna 1 (Peak & Average, RU484, Index 65, Ch.38, MCS11)



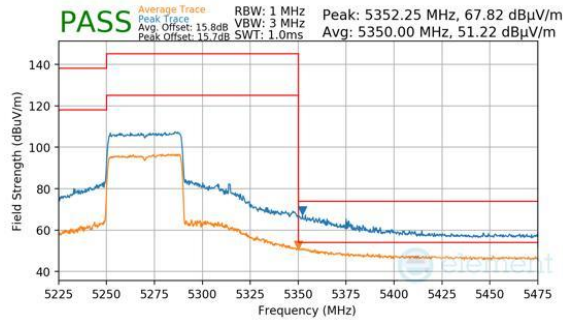
Plot 7-201. Antenna 1 (Peak & Average, RU484, Index 65, Ch.62, MCS11)



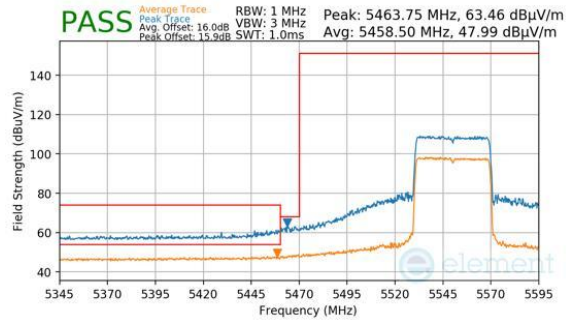
Plot 7-199. Antenna 1 (Peak & Average, RU484, Index 65, Ch.46, MCS11)



Plot 7-202. Antenna 1 (Peak & Average, RU484, Index 65, Ch.102, MCS11)

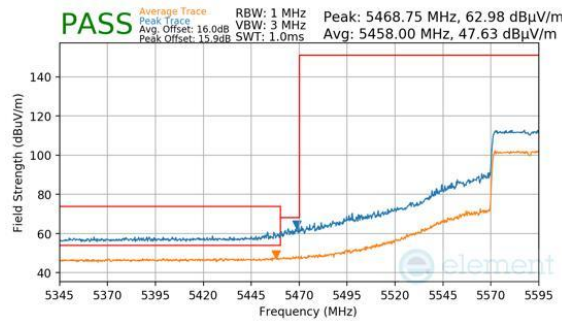


Plot 7-200. Antenna 1 (Peak & Average, RU484, Index 65, Ch.54, MCS11)

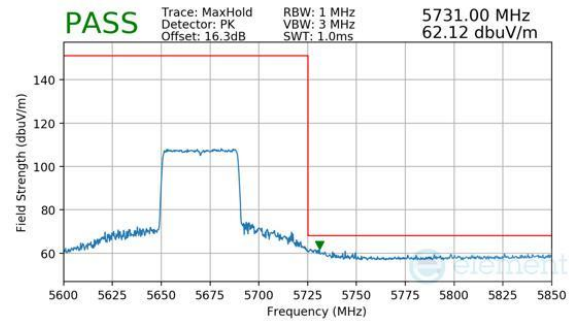


Plot 7-203. Antenna 1 (Peak & Average, RU484, Index 65, Ch.110, MCS11)

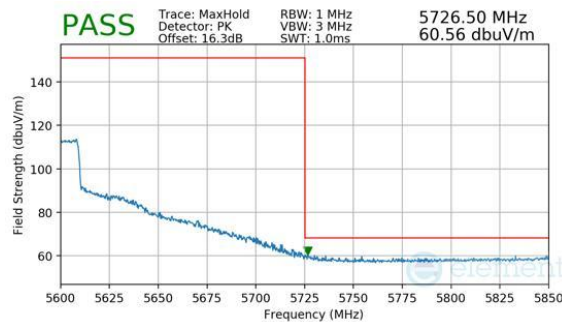
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 129 of 164



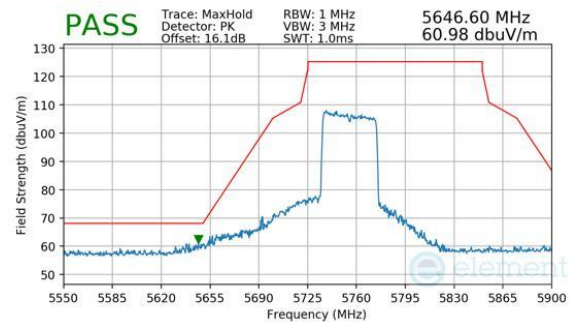
Plot 7-204. Antenna 1 (Peak & Average, RU484, Index 65, Ch.118, MCS11)



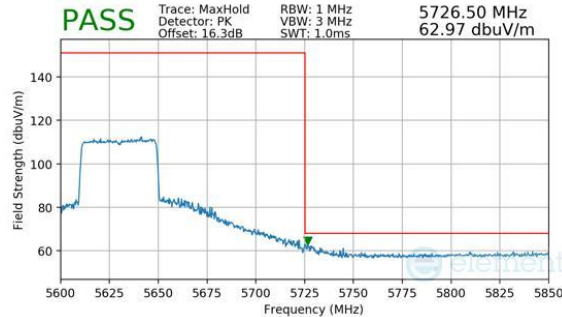
Plot 7-207. Antenna 1 (Peak, RU484, Index 65, Ch.134, MCS11)



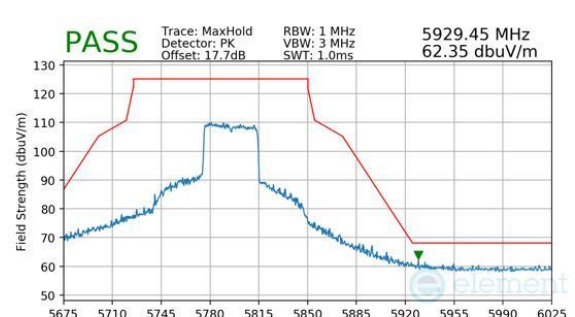
Plot 7-205. Antenna 1 (Peak, RU484, Index 65, Ch.118, MCS11)



Plot 7-208. Antenna 1 (Peak, RU484, Index 65, Ch.151, MCS11)



Plot 7-206. Antenna 1 (Peak, RU484, Index 65, Ch.126, MCS11)

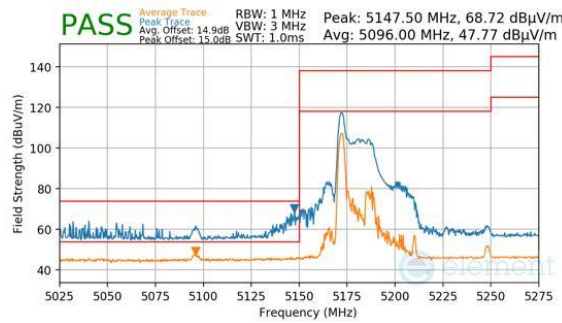


Plot 7-209. Antenna 1 (Peak, RU484, Index 65, Ch.159, MCS11)

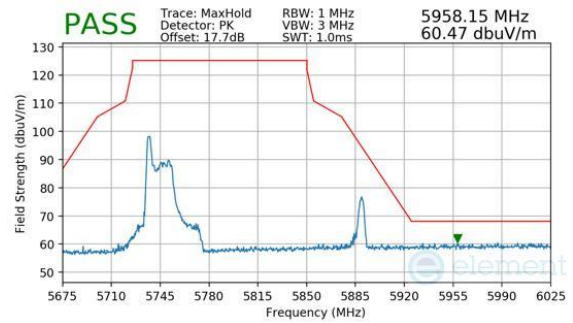
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 130 of 164

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

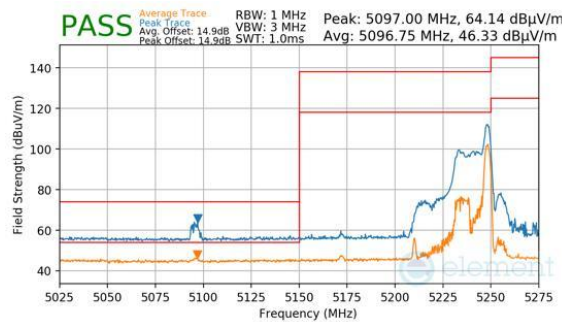
RU26



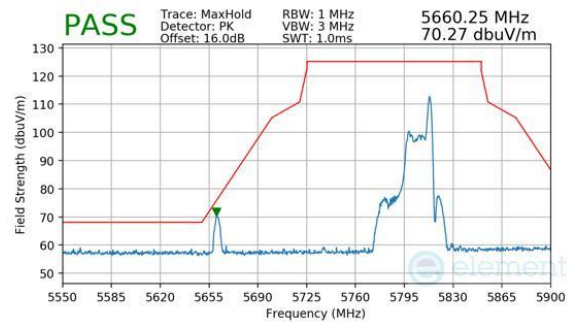
Plot 7-210. Antenna 1 (Peak & Average, RU26, Index 0, Ch.42, MCS11)



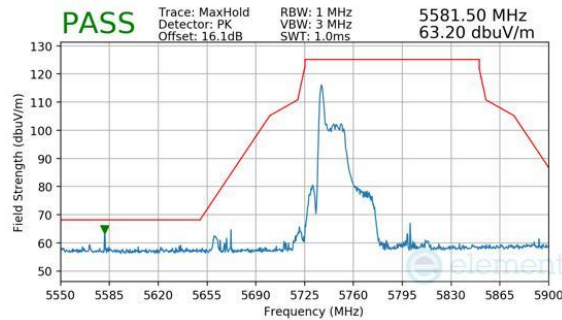
Plot 7-213. Antenna 1 (Peak, RU26, Index 0, Ch.155, MCS11)



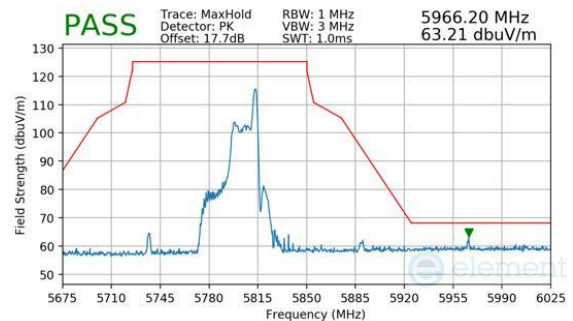
Plot 7-211. Antenna 1 (Peak & Average, RU26, Index 36, Ch.42, MCS11)



Plot 7-214. Antenna 1 (Peak, RU26, Index 36, Ch.155, MCS11)



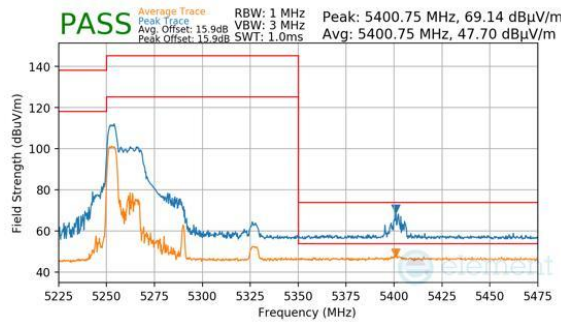
Plot 7-212. Antenna 1 (Peak, RU26, Index 0, Ch.155, MCS11)



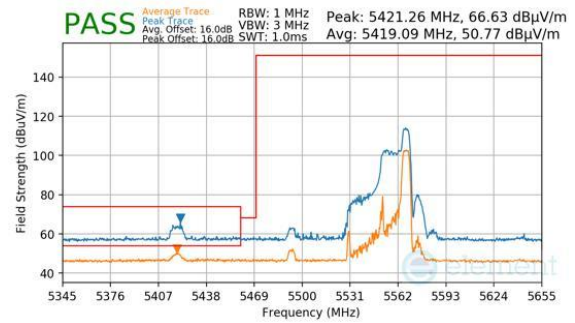
Plot 7-215. Antenna 1 (Peak, RU26, Index 36, Ch.155, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 131 of 164

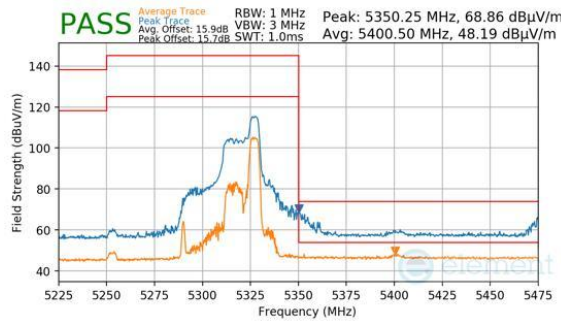
RU52



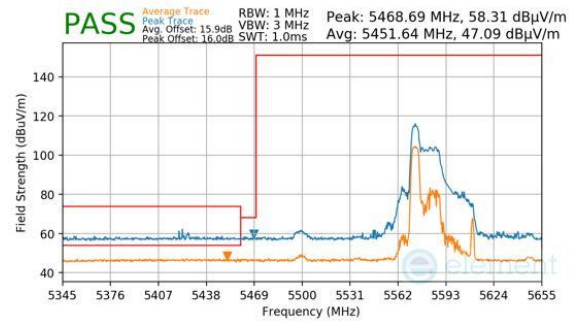
Plot 7-216. Antenna 1 (Peak & Average, RU52, Index 37, Ch.58, MCS11)



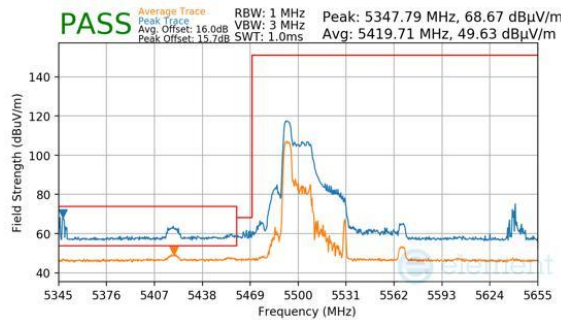
Plot 7-219. Antenna 1 (Peak & Average, RU52, Index 52, Ch.106, MCS11)



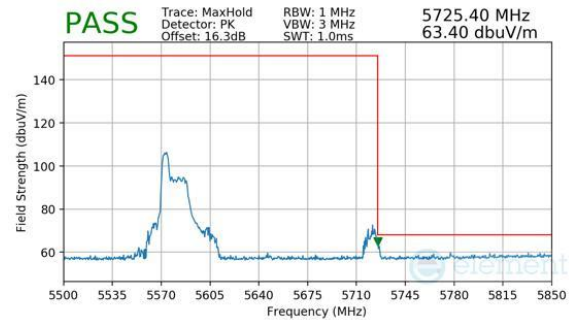
Plot 7-217. Antenna 1 (Peak & Average, RU52, Index 52, Ch.58, MCS11)



Plot 7-220. Antenna 1 (Peak & Average, RU52, Index 37, Ch.122, MCS11)

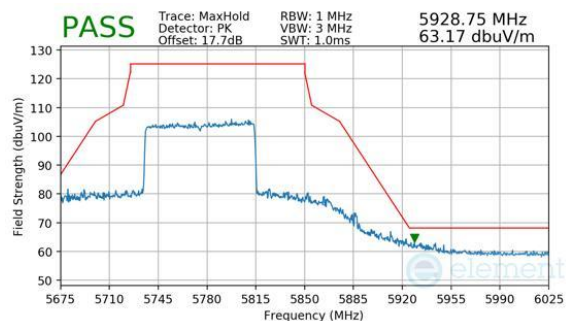


Plot 7-218. Antenna 1 (Peak & Average, RU52, Index 37, Ch.106, MCS11)



Plot 7-221. Antenna 1 (Peak, RU52, Index 37, Ch.122, MCS11)

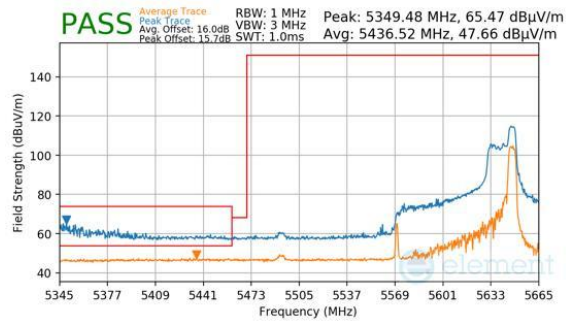
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 132 of 164



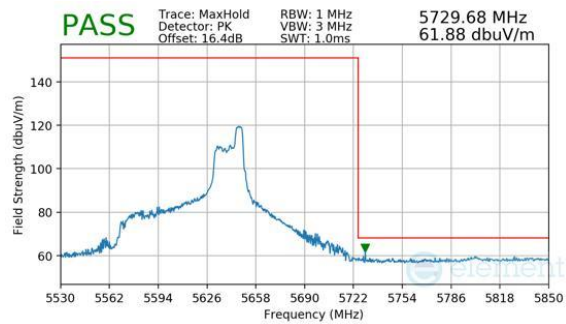
Plot 7-228. Antenna 1 (Peak, RU996, Index 67, Ch.155, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 134 of 164

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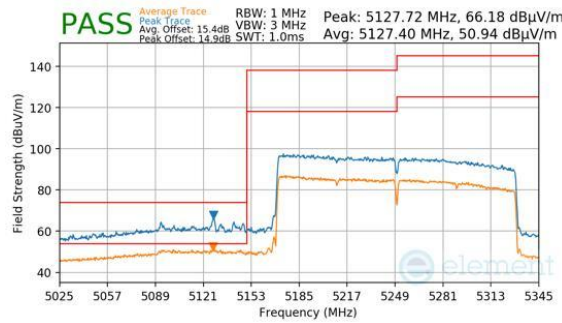
Plot 7-235. Antenna 1 (Peak & Average, RU52, Index 52, Ch.114, MCS11)



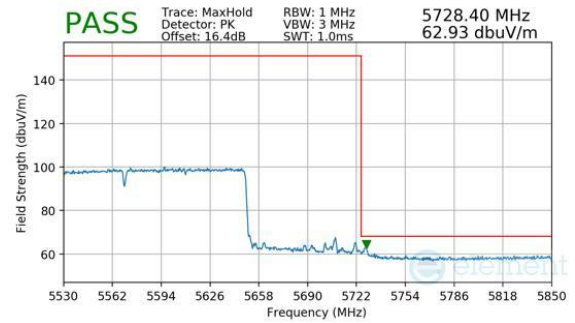
Plot 7-236. Antenna 1 (Peak, RU52, Index 52, Ch.114, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 136 of 164

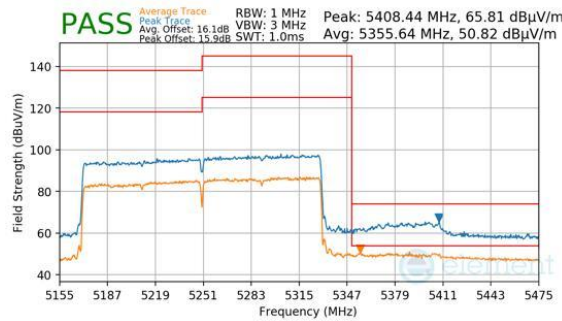
RU996X2



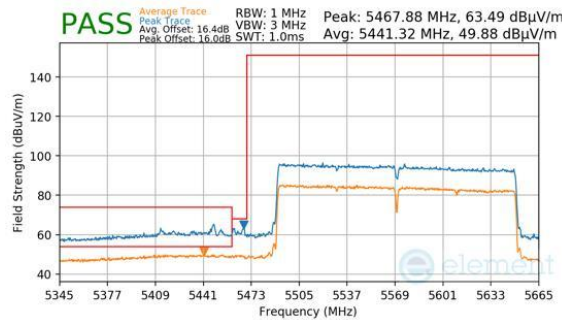
Plot 7-237. Antenna 1 (Peak & Average, RU996X2, Index 68, Ch.50, MCS11)



Plot 7-240. Antenna 1 (Peak, RU996X2, Index 68, Ch.114, MCS11)



Plot 7-238. Antenna 1 (Peak & Average, RU996X2, Index 68, Ch.50, MCS11)

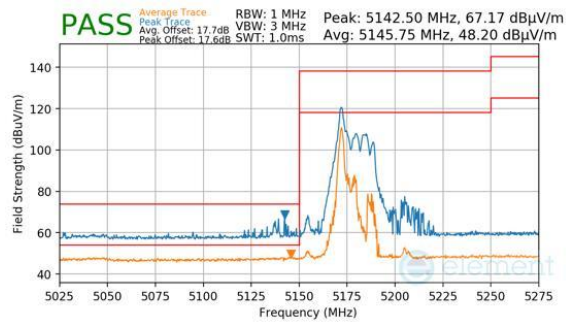


Plot 7-239. Antenna 1 (Peak & Average, RU996X2, Index 68, Ch.114, MCS11)

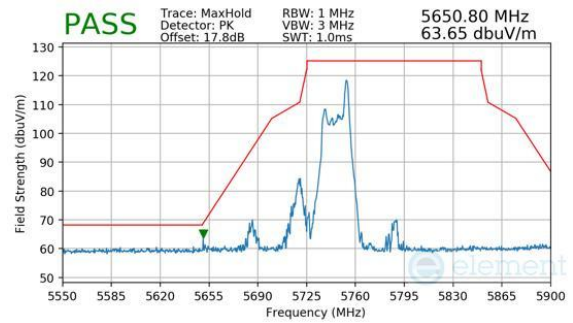
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 137 of 164

7.6.10 CDD Radiated Band Edge Measurements (20MHz BW)

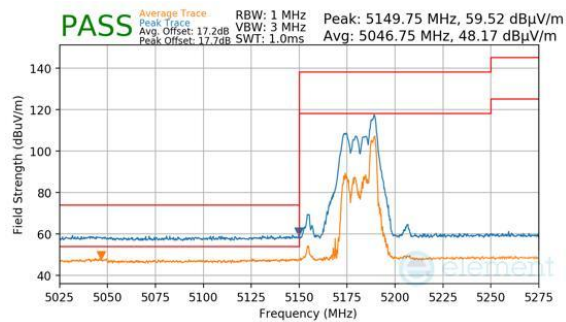
RU26



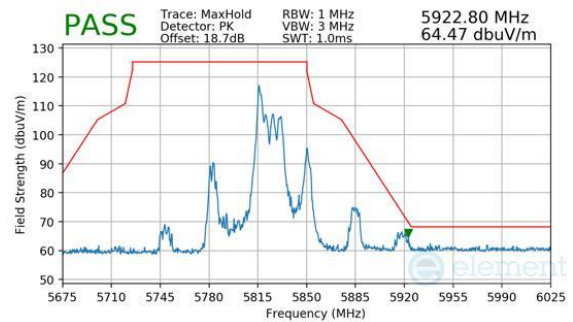
Plot 7-241. CDD (Peak & Average, RU26, Index 0, Ch.36, MCS11)



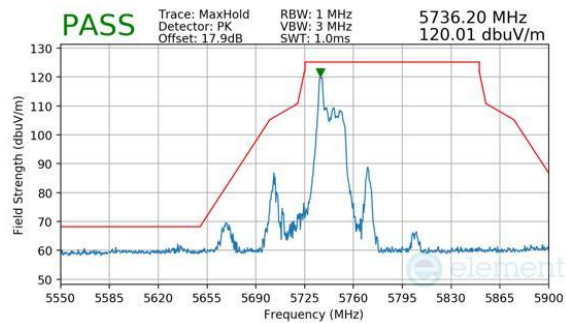
Plot 7-244. CDD (Peak, RU26, Index 8, Ch.149, MCS11)



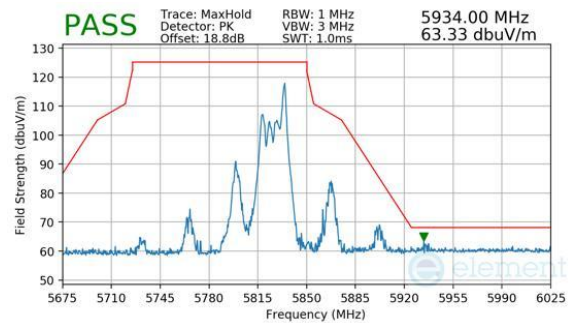
Plot 7-242. CDD (Peak & Average, RU26, Index 8, Ch.36, MCS11)



Plot 7-245. CDD (Peak, RU26, Index 0, Ch.165, MCS11)



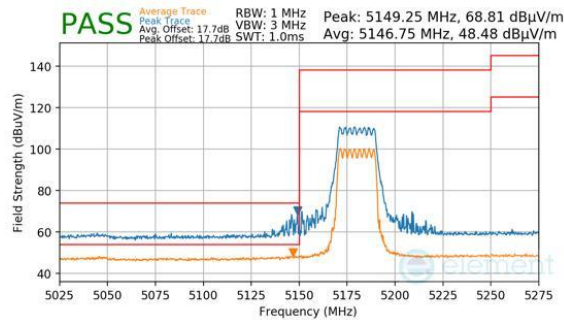
Plot 7-243. CDD (Peak, RU26, Index 0, Ch.149, MCS11)



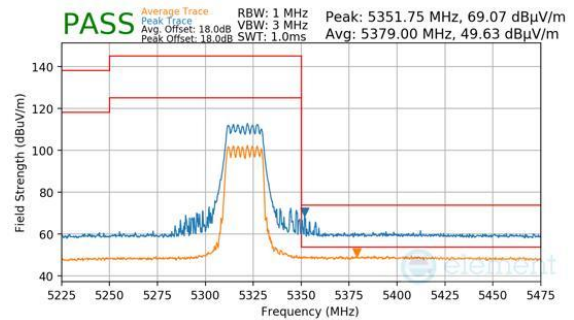
Plot 7-246. CDD (Peak, RU26, Index 8, Ch.165, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 138 of 164

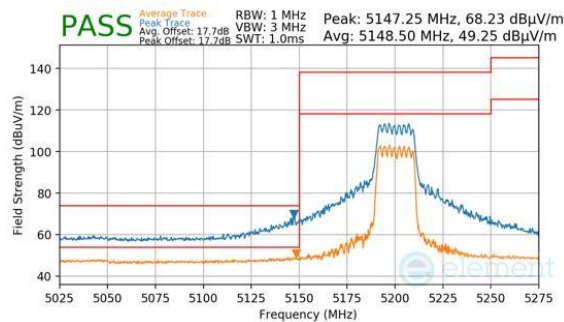
RU242



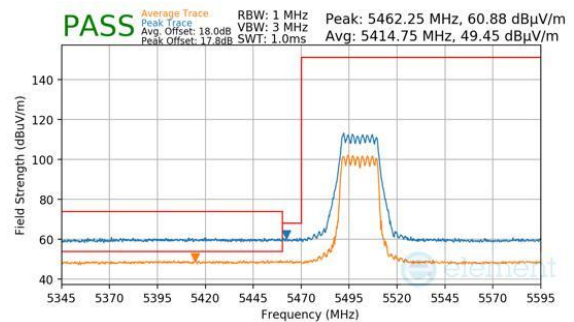
Plot 7-253. CDD (Peak & Average, RU242, Index 61, Ch.36, MCS11)



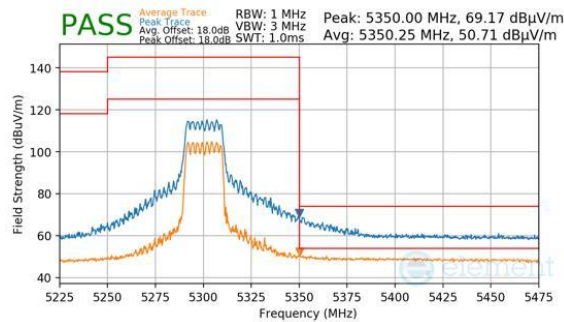
Plot 7-256. CDD (Peak & Average, RU242, Index 61, Ch.64, MCS11)



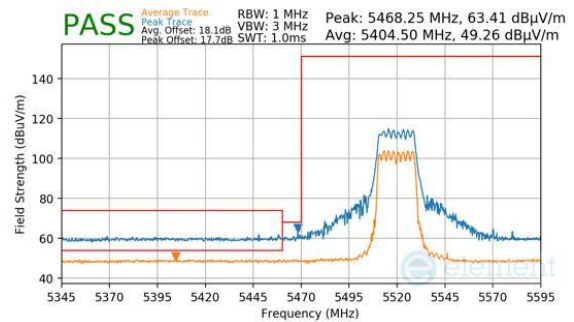
Plot 7-254. CDD (Peak & Average, RU242, Index 61, Ch.40, MCS11)



Plot 7-257. CDD (Peak & Average, RU242, Index 61, Ch.100, MCS11)

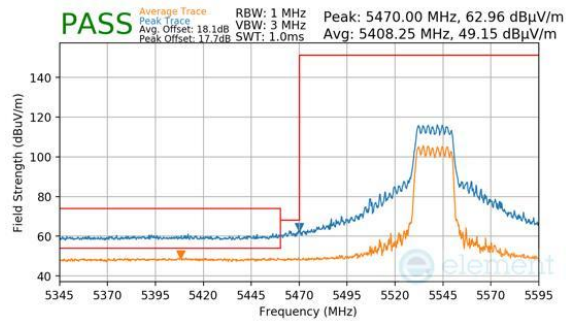


Plot 7-255. CDD (Peak & Average, RU242, Index 61, Ch.60, MCS11)

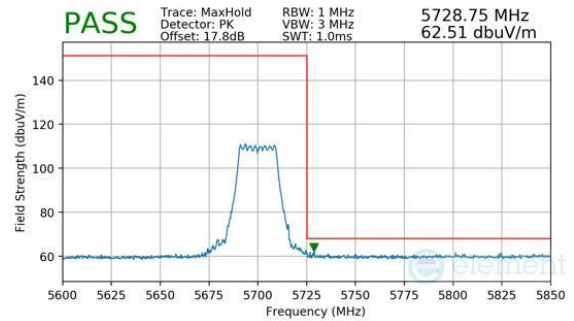


Plot 7-258. CDD (Peak & Average, RU242, Index 61, Ch.104, MCS11)

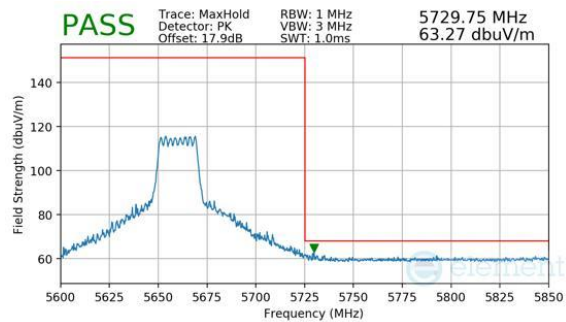
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		



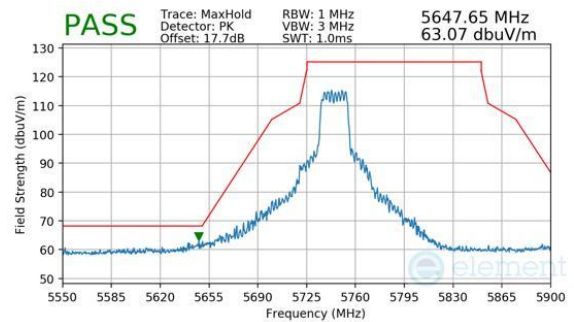
Plot 7-259. CDD (Peak & Average, RU242, Index 61, Ch.108, MCS11)



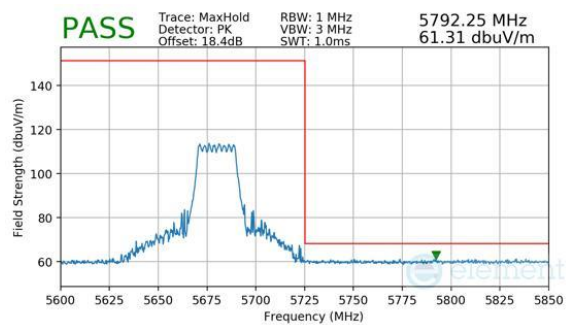
Plot 7-262. CDD (Peak, RU242, Index 61, Ch.140, MCS11)



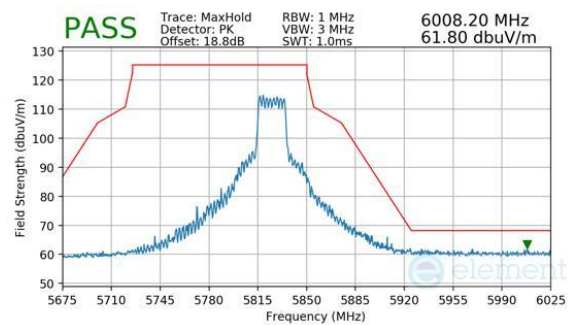
Plot 7-260. CDD (Peak, RU242, Index 61, Ch.132, MCS11)



Plot 7-263. CDD (Peak, RU242, Index 61, Ch.149, MCS11)



Plot 7-261. CDD (Peak, RU242, Index 61, Ch.136, MCS11)

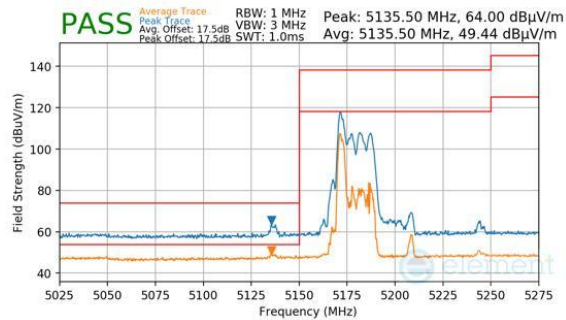


Plot 7-264. CDD (Peak, RU242, Index 61, Ch.165, MCS11)

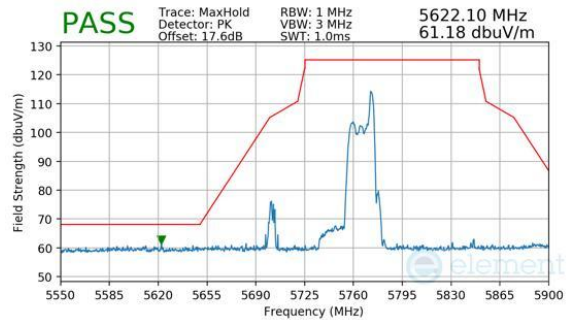
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 141 of 164

7.6.11 CDD Radiated Band Edge Measurements (40MHz BW)

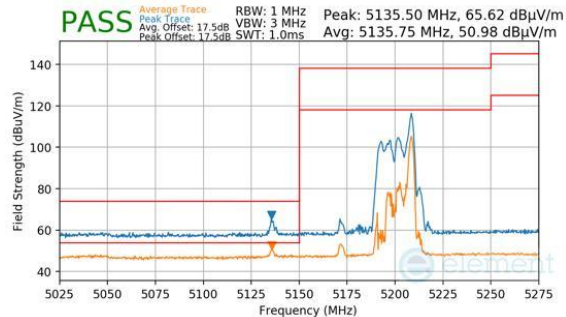
RU26



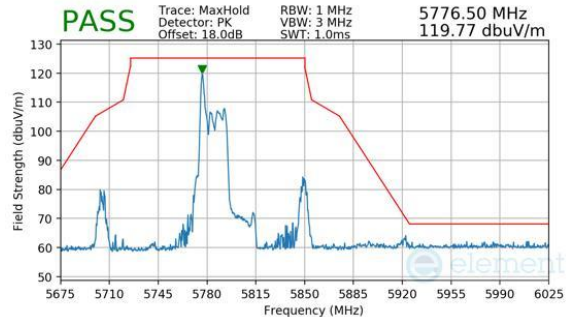
Plot 7-265. CDD (Peak & Average, RU26, Index 0, Ch.38, MCS11)



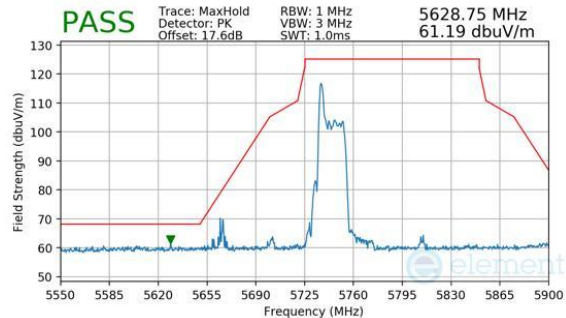
Plot 7-268. CDD (Peak, RU26, Index 17, Ch.151, MCS11)



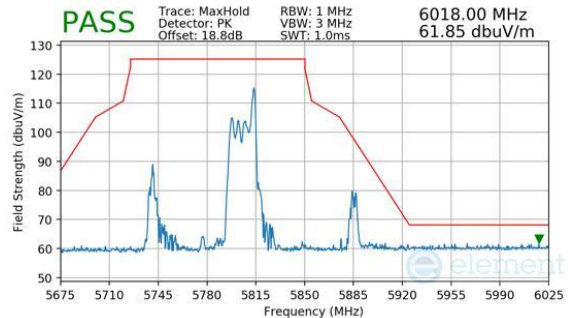
Plot 7-266. CDD (Peak & Average, RU26, Index 17, Ch.38, MCS11)



Plot 7-269. CDD (Peak, RU26, Index 0, Ch.159, MCS11)



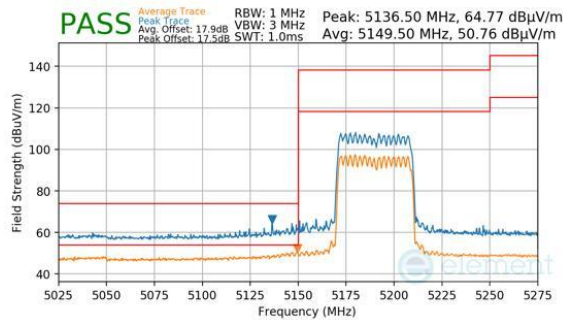
Plot 7-267. CDD (Peak, RU26, Index 0, Ch.151, MCS11)



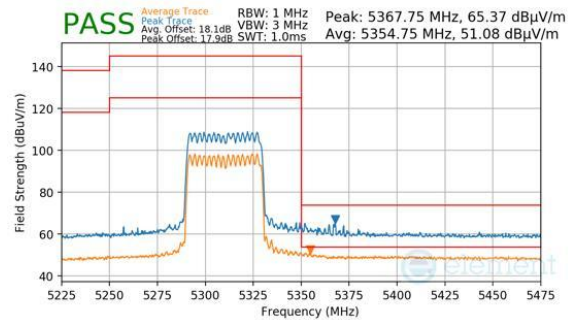
Plot 7-270. CDD (Peak, RU26, Index 17, Ch.159, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 142 of 164

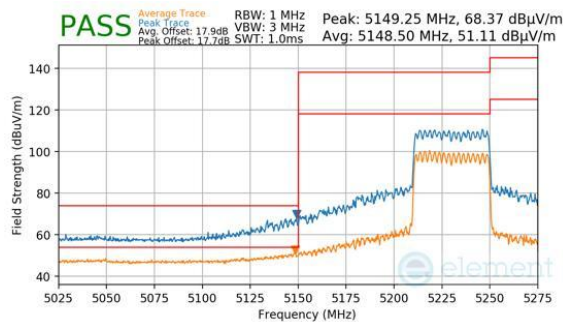
RU484



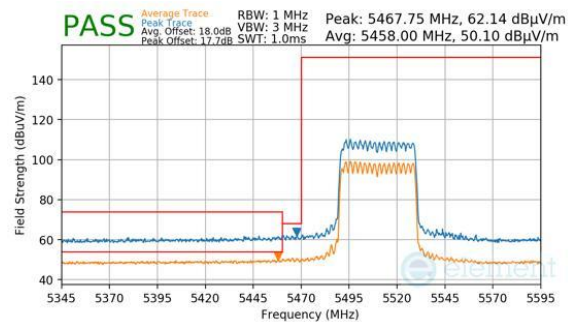
Plot 7-277. CDD (Peak & Average, RU484, Index 65, Ch.38, MCS11)



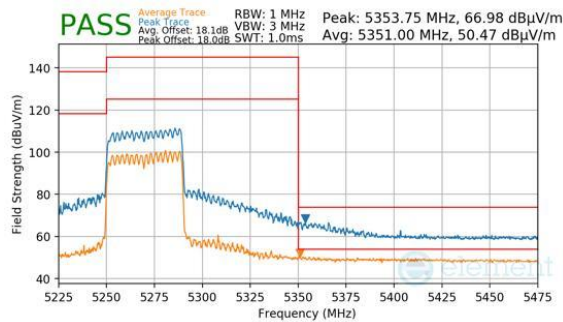
Plot 7-280. CDD (Peak & Average, RU484, Index 65, Ch.62, MCS11)



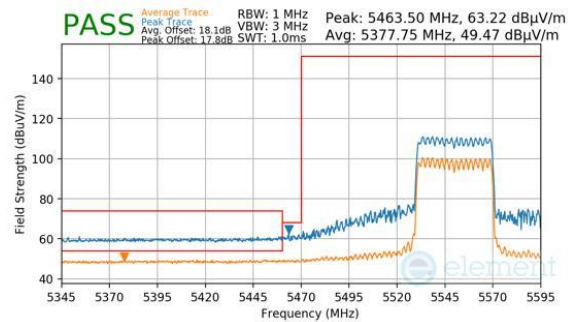
Plot 7-278. CDD (Peak & Average, RU484, Index 65, Ch.46, MCS11)



Plot 7-281. CDD (Peak & Average, RU484, Index 65, Ch.102, MCS11)

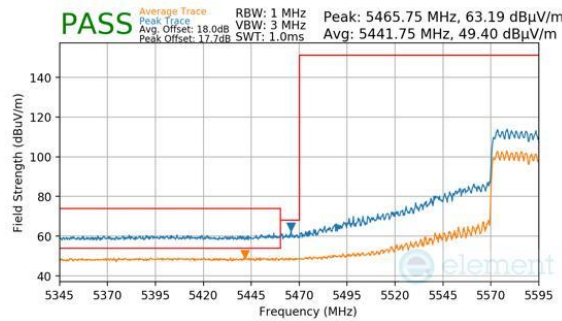


Plot 7-279. CDD (Peak & Average, RU484, Index 65, Ch.54, MCS11)

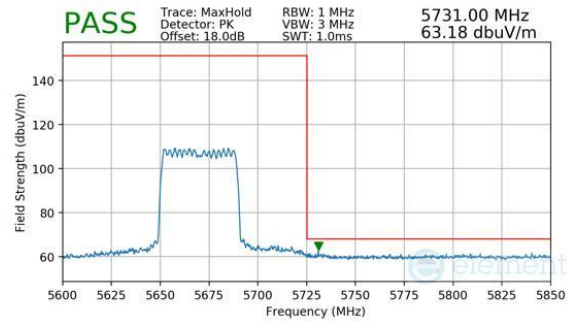


Plot 7-282. CDD (Peak & Average, RU484, Index 65, Ch.110, MCS11)

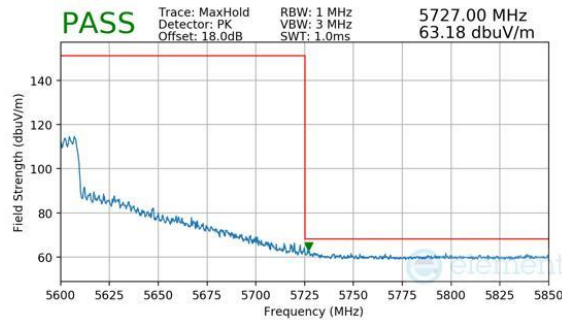
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 144 of 164



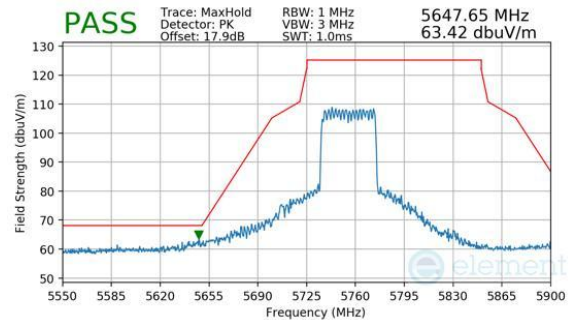
Plot 7-283. CDD (Peak & Average, RU484, Index 65, Ch.118, MCS11)



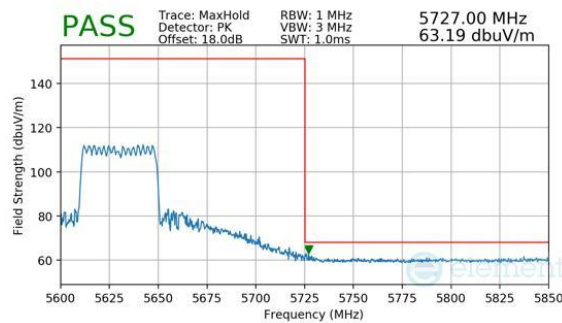
Plot 7-286. CDD (Peak, RU484, Index 65, Ch.134, MCS11)



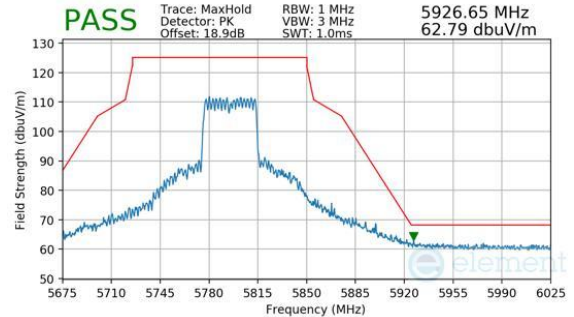
Plot 7-284. CDD (Peak, RU484, Index 65, Ch.118, MCS11)



Plot 7-287. CDD (Peak, RU484, Index 65, Ch.151, MCS11)



Plot 7-285. CDD (Peak, RU484, Index 65, Ch.126, MCS11)

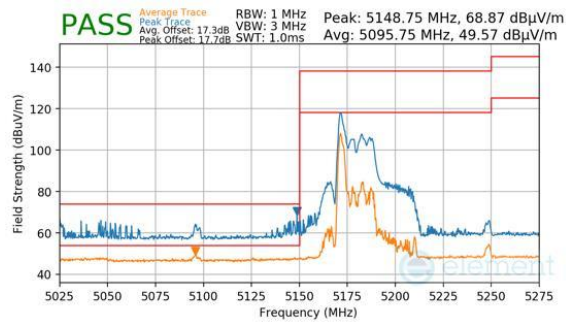


Plot 7-288. CDD (Peak, RU484, Index 65, Ch.159, MCS11)

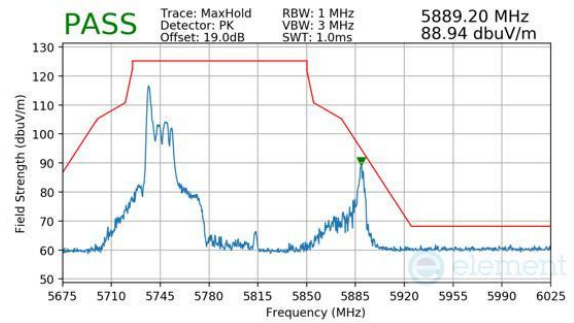
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 145 of 164

7.6.12 CDD Radiated Band Edge Measurements (80MHz BW)

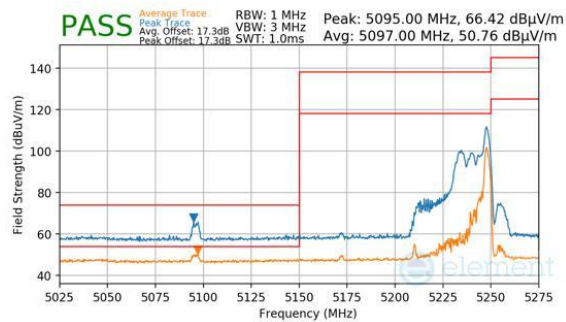
RU26



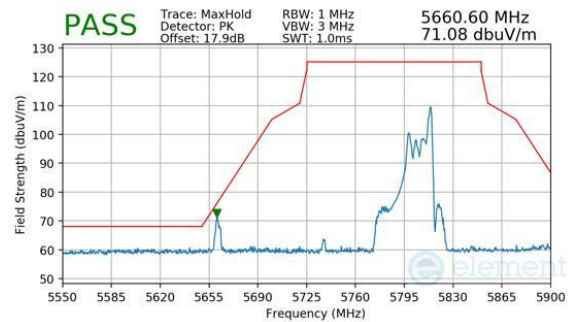
Plot 7-289. CDD (Peak & Average, RU26, Index 0, Ch.42, MCS11)



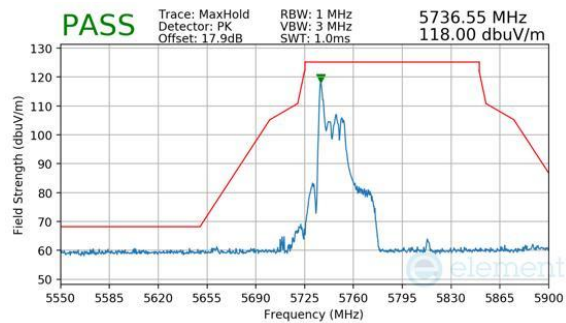
Plot 7-292. CDD (Peak, RU26, Index 0, Ch.155, MCS11)



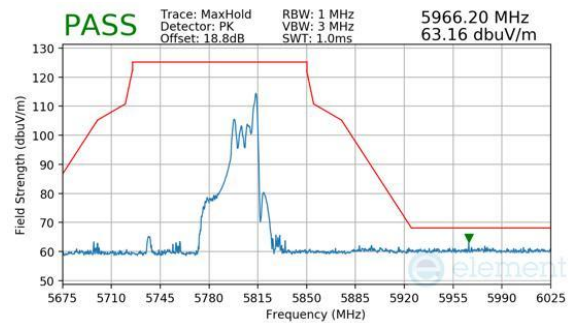
Plot 7-290. CDD (Peak & Average, RU26, Index 36, Ch.42, MCS11)



Plot 7-293. CDD (Peak, RU26, Index 36, Ch.155, MCS11)



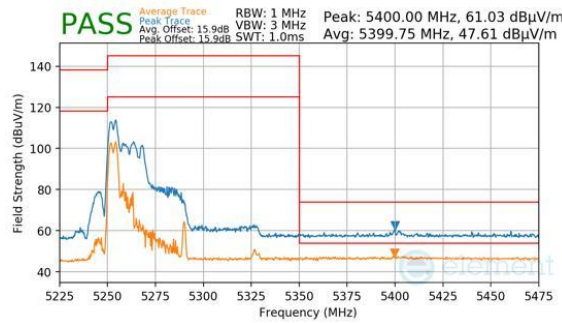
Plot 7-291. CDD (Peak, RU26, Index 0, Ch.155, MCS11)



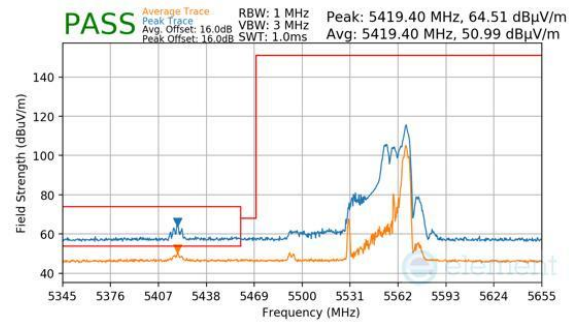
Plot 7-294. CDD (Peak, RU26, Index 36, Ch.155, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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.		

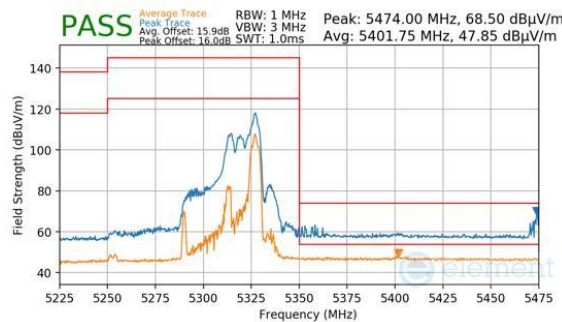
RU52



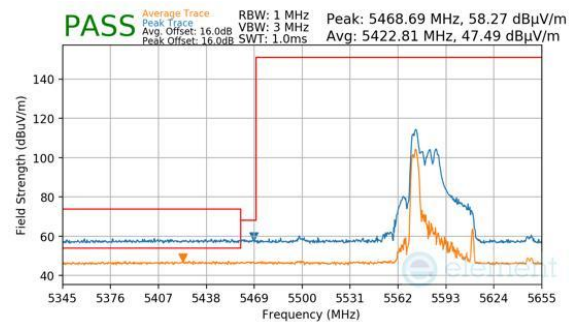
Plot 7-295. CDD (Peak & Average, RU52, Index 37, Ch.58, MCS11)



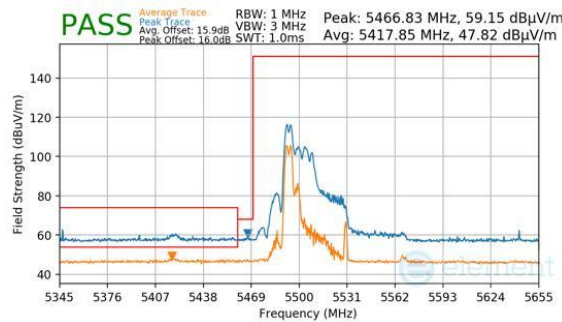
Plot 7-298. CDD (Peak & Average, RU52, Index 52, Ch.106, MCS11)



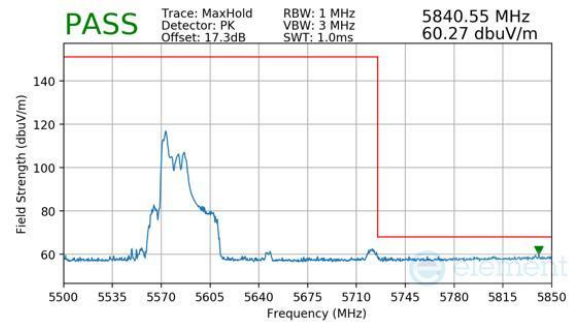
Plot 7-296. CDD (Peak & Average, RU52, Index 52, Ch.58, MCS11)



Plot 7-299. CDD (Peak & Average, RU52, Index 37, Ch.122, MCS11)



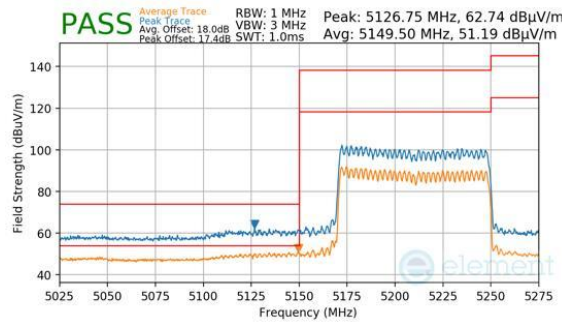
Plot 7-297. CDD (Peak & Average, RU52, Index 37, Ch.106, MCS11)



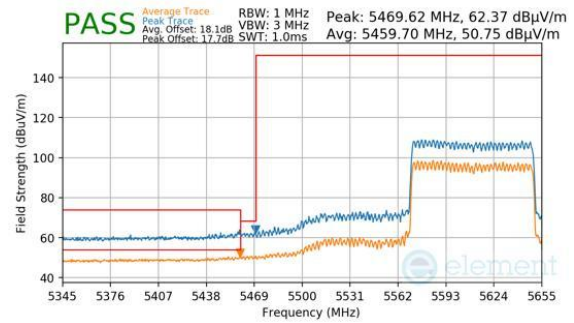
Plot 7-300. CDD (Peak, RU52, Index 37, Ch.122, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 147 of 164

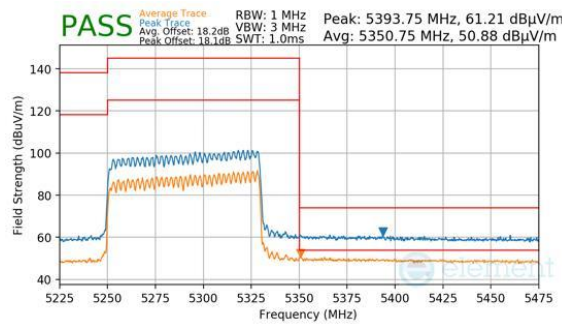
RU996



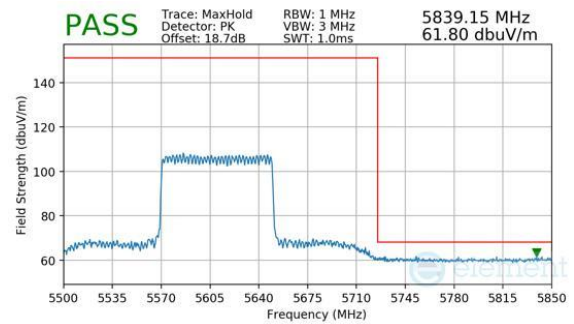
Plot 7-301. CDD (Peak & Average, RU996, Index 67, Ch.42, MCS11)



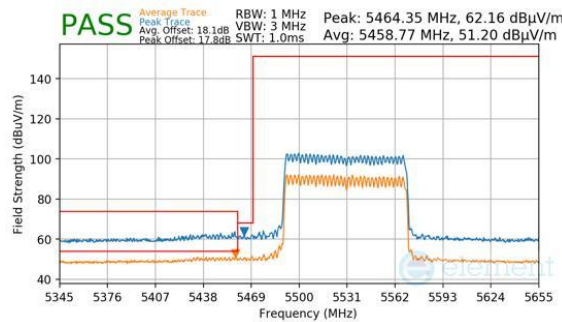
Plot 7-304. CDD (Peak & Average, RU996, Index 67, Ch.122, MCS11)



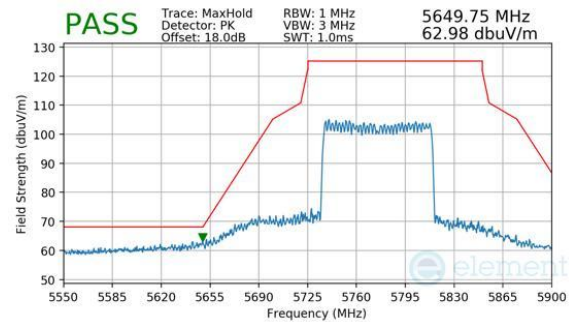
Plot 7-302. CDD (Peak & Average, RU996, Index 67, Ch.58, MCS11)



Plot 7-305. CDD (Peak, RU996, Index 67, Ch.122, MCS11)

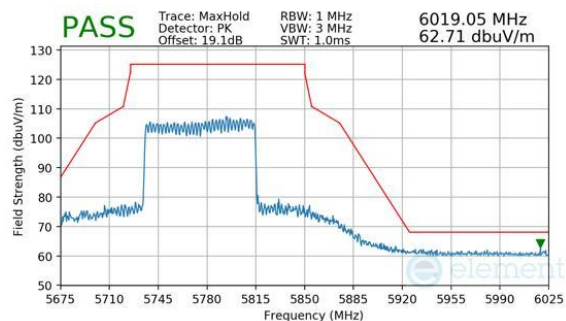


Plot 7-303. CDD (Peak & Average, RU996, Index 67, Ch.106, MCS11)



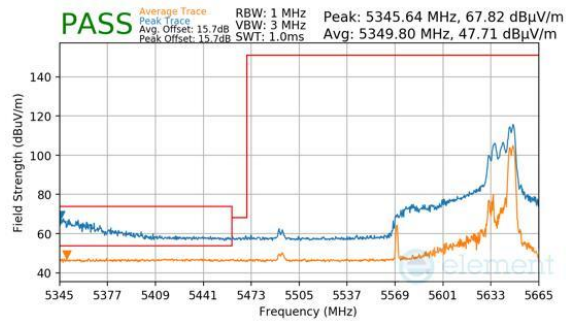
Plot 7-306. CDD (Peak, RU996, Index 67, Ch.155, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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.		

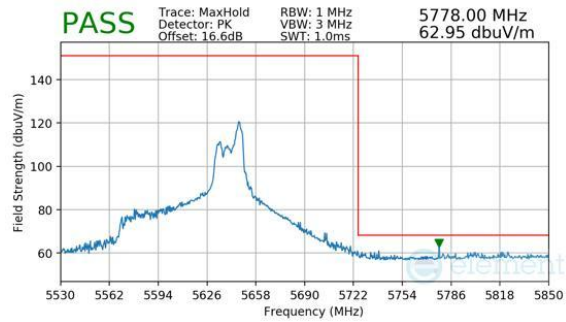


Plot 7-307. CDD (Peak, RU996, Index 67, Ch.155, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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 149 of 164



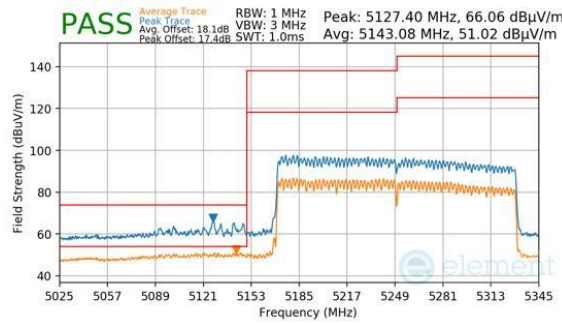
Plot 7-314. CDD (Peak & Average, RU52, Index 52, Ch.114, MCS11)



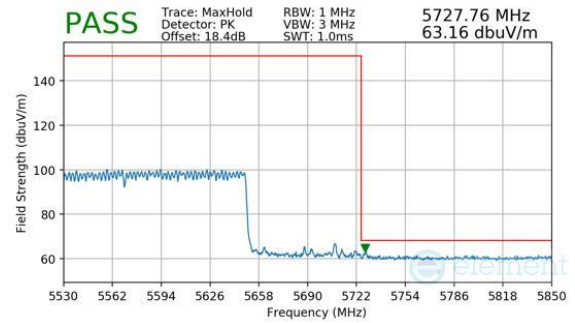
Plot 7-315. CDD (Peak, RU52, Index 52, Ch.114, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-07-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.		

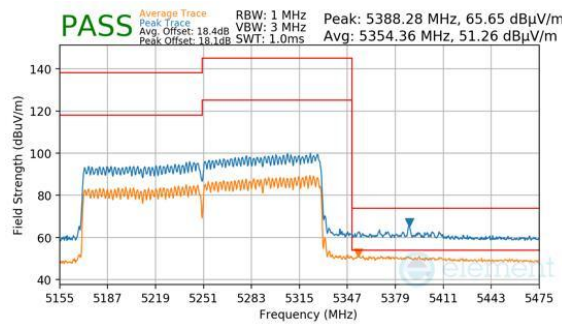
RU996X2



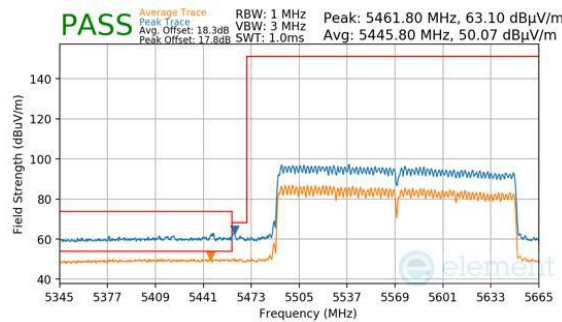
Plot 7-316. CDD (Peak & Average, RU996X2, Index 68, Ch.50, MCS11)



Plot 7-319. CDD (Peak, RU996X2, Index 68, Ch.114, MCS11)



Plot 7-317. CDD (Peak & Average, RU996X2, Index 68, Ch.50, MCS11)



Plot 7-318. CDD (Peak & Average, RU996X2, Index 68, Ch.114, MCS11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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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 7-106 per Section 15.209 and RSS-Gen (7.4.3).

Frequency	Field Strength [μ V/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 7-106. 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 = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

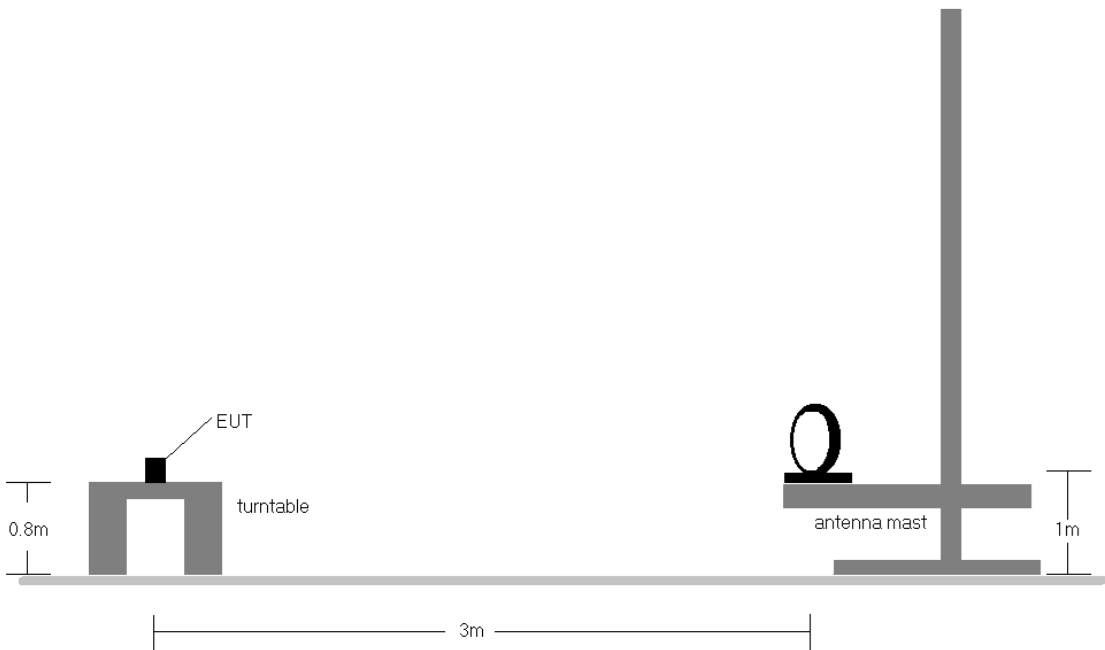


Figure 7-6. Radiated Test Setup < 30MHz

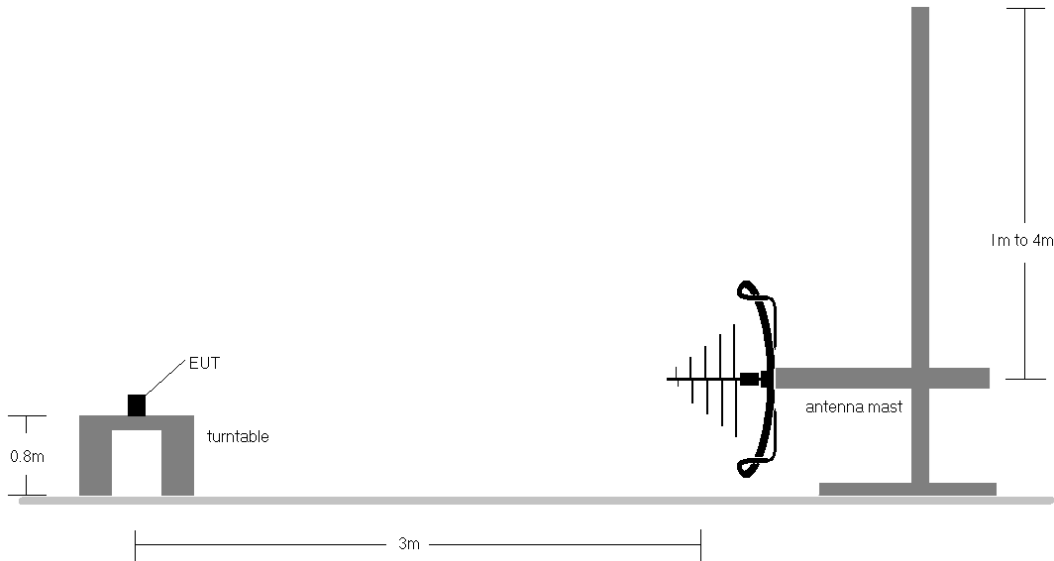


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3300 IC: 579C-A3300		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 7-106.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. 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 for emissions 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.
10. All antenna configurations and data rates were investigated and only the worst case are reported.
11. The following configuration below was investigated and reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger

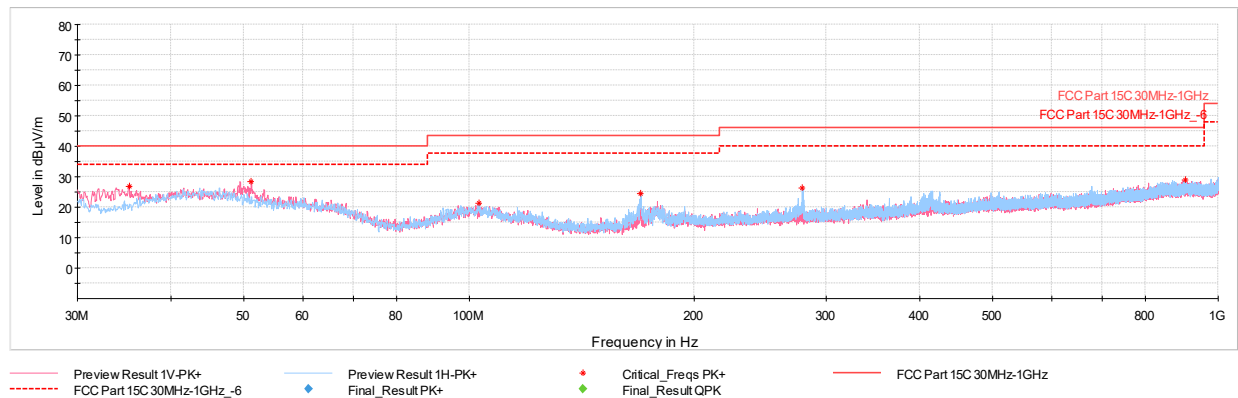
Sample Calculations

Determining Spurious Emissions Levels

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

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7.7.1 CDD Radiated Spurious Emissions (Below 1GHz)

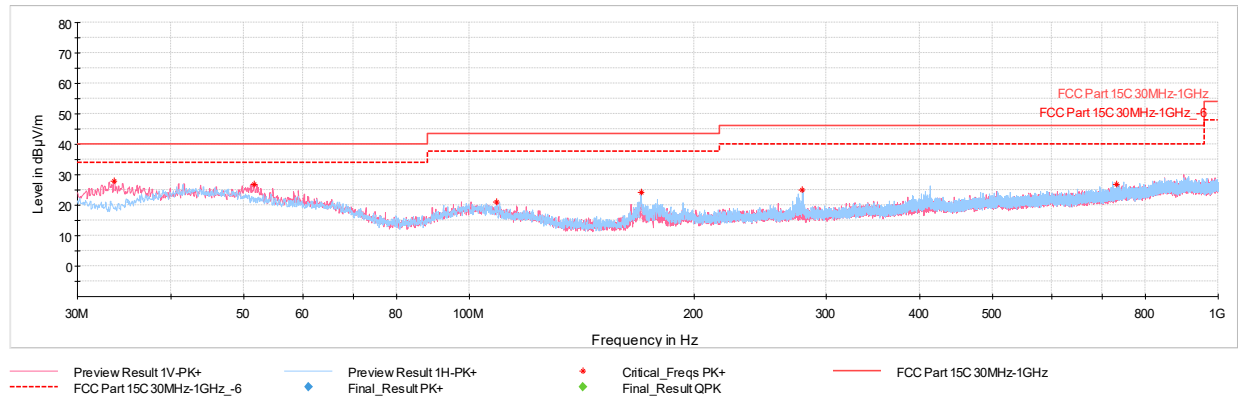


Plot 7-320. RSE below 1GHz CDD (RU26 – Ch.165), with AC/DC Adapter

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]
35.19	Max Peak	V	100	166	-62.73	-17.55	26.72	40.00	-13.28
51.20	Max Peak	V	100	334	-64.36	-14.23	28.41	40.00	-11.59
103.19	Max Peak	H	100	4	-69.26	-16.35	21.39	43.52	-22.13
169.58	Max Peak	H	200	108	-64.14	-18.49	24.37	43.52	-19.15
278.56	Max Peak	H	100	165	-66.90	-13.89	26.21	46.02	-19.81
904.80	Max Peak	H	200	296	-76.62	-1.46	28.92	46.02	-17.10

Table 7-107. RSE below 1GHz CDD (RU26 – Ch.165), with AC/DC Adapter

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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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]
33.59	Max Peak	V	100	232	-60.79	-18.21	28.00	40.00	-12.00
51.63	Max Peak	V	100	314	-65.86	-14.27	26.87	40.00	-13.13
108.91	Max Peak	V	100	334	-69.20	-16.68	21.12	43.52	-22.40
169.83	Max Peak	H	200	129	-64.33	-18.49	24.18	43.52	-19.34
278.66	Max Peak	H	100	162	-68.05	-13.89	25.06	46.02	-20.96
731.36	Max Peak	H	300	55	-75.73	-4.44	26.83	46.02	-19.19

Table 7-108. RSE below 1GHz CDD (RU242– Ch.165), with AC/DC Adapter

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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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. All data rates and modes were investigated for AC Line conducted spurious emissions.

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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-109. 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, Subclause 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.

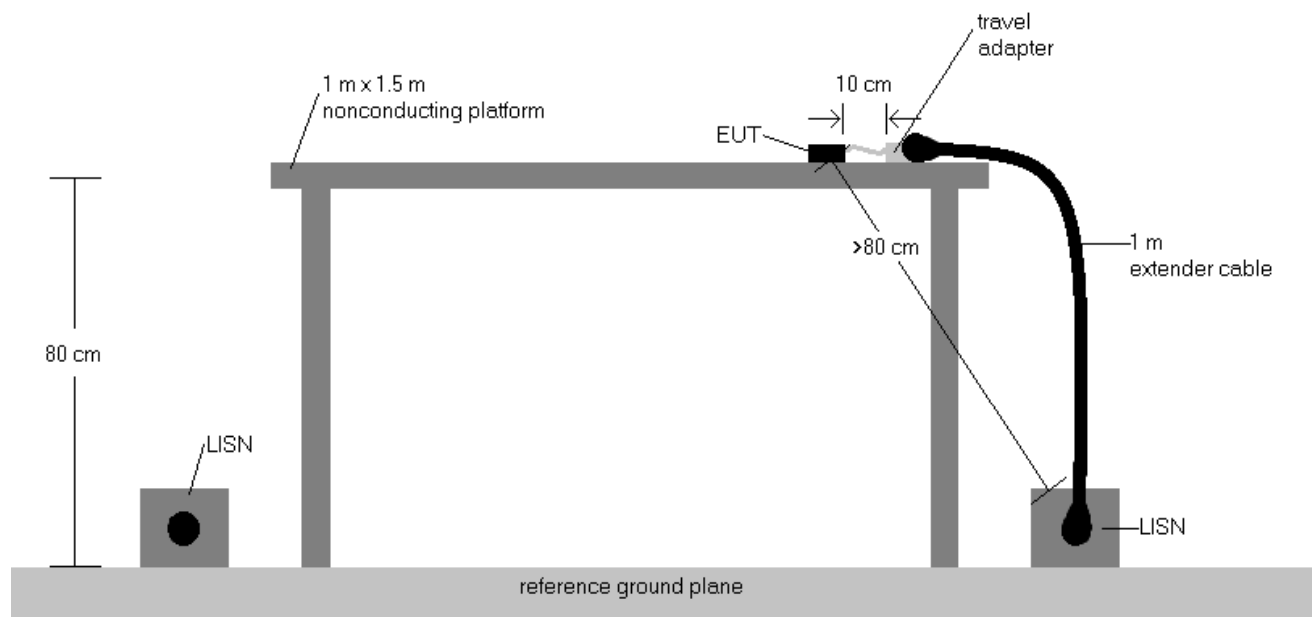
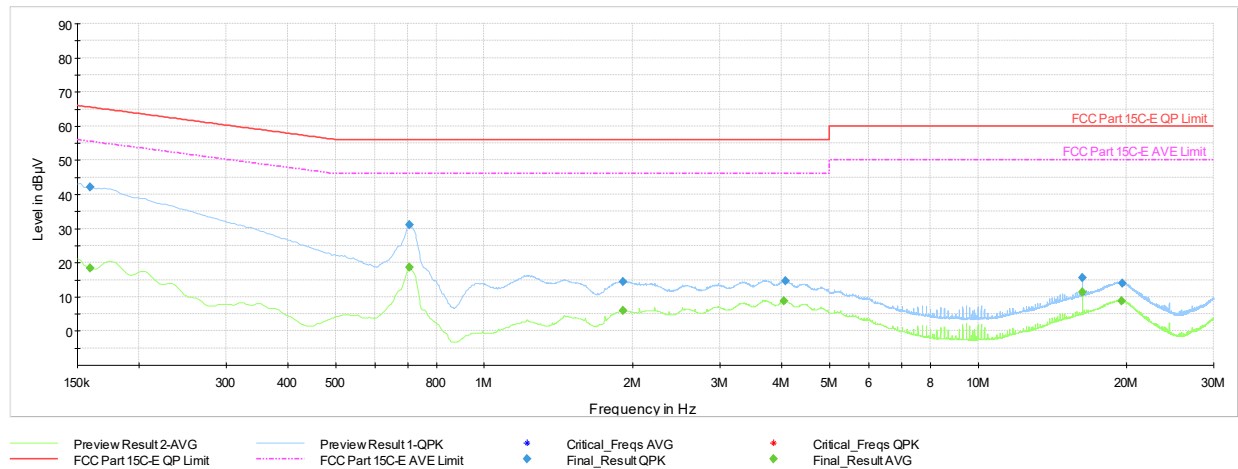


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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 following configuration below were investigated and reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
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.

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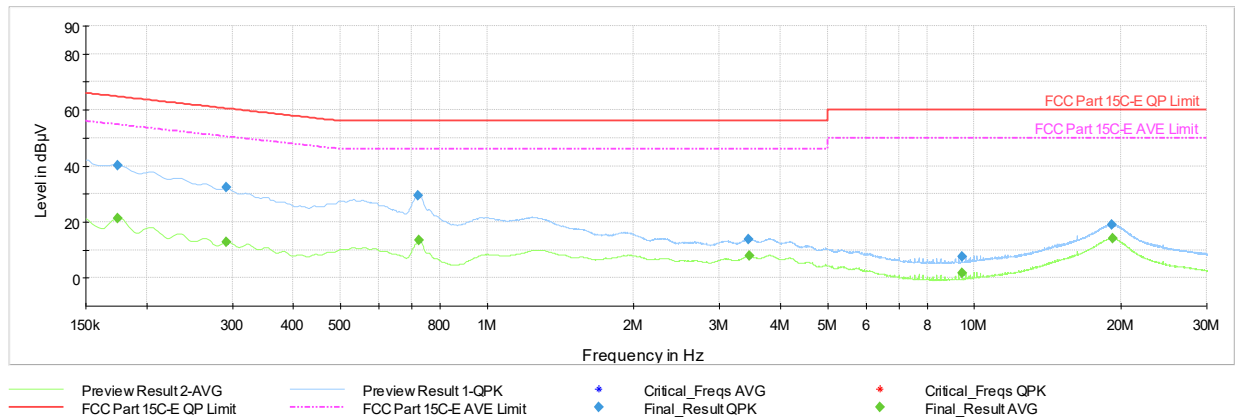


Plot 7-322. AC Line Conducted Plot with 11ax UNII Band 3 – RU26 – Ch.165 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV/m]	Average [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Line	PE
0.16	FINAL	---	18.43	55.52	-37.08	L1	GND
0.16	FINAL	42.17	---	65.52	-23.35	L1	GND
0.71	FINAL	---	18.53	46.00	-27.47	L1	GND
0.71	FINAL	31.00	---	56.00	-25.00	L1	GND
1.91	FINAL	---	5.93	46.00	-40.07	L1	GND
1.91	FINAL	14.49	---	56.00	-41.51	L1	GND
4.04	FINAL	---	8.80	46.00	-37.20	L1	GND
4.08	FINAL	14.54	---	56.00	-41.46	L1	GND
16.26	FINAL	15.58	---	60.00	-44.42	L1	GND
16.26	FINAL	---	11.38	50.00	-38.62	L1	GND
19.57	FINAL	---	8.81	50.00	-41.19	L1	GND
19.64	FINAL	14.00	---	60.00	-46.00	L1	GND

Table 7-110. AC Line Conducted with 11ax UNII Band 3 – RU26 – Ch.165 (L1) with AC/DC Adapter

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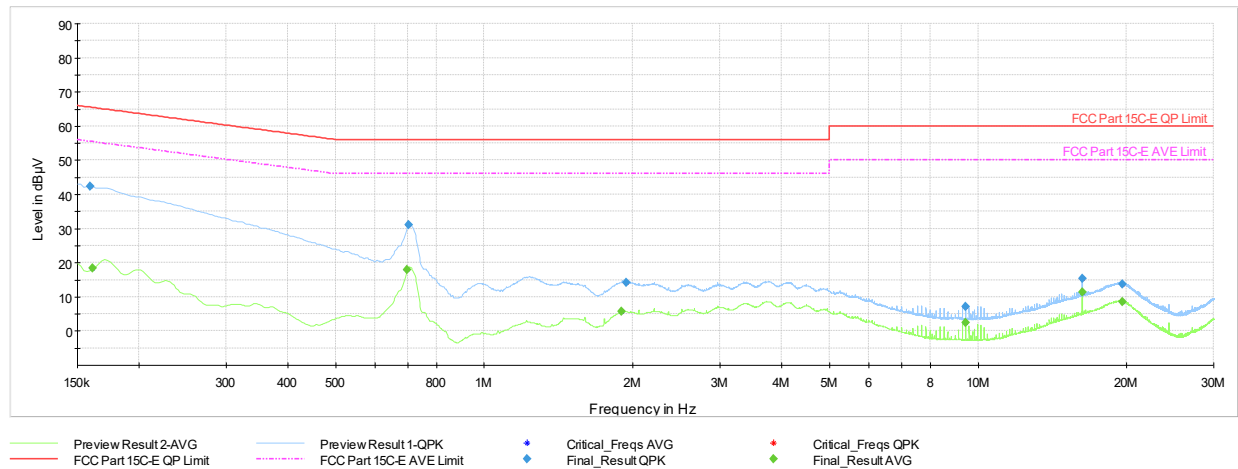


Plot 7-323. AC Line Conducted Plot with 11ax UNII Band 3 – RU26 – Ch.165 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV/m]	Average [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Line	PE
0.18	FINAL	---	21.27	54.73	-33.46	N	GND
0.18	FINAL	40.29	---	64.73	-24.44	N	GND
0.29	FINAL	---	12.88	50.47	-37.59	N	GND
0.29	FINAL	32.23	---	60.47	-28.24	N	GND
0.72	FINAL	29.35	---	56.00	-26.65	N	GND
0.73	FINAL	---	13.31	46.00	-32.69	N	GND
3.43	FINAL	13.82	---	56.00	-42.18	N	GND
3.46	FINAL	---	7.82	46.00	-38.18	N	GND
9.45	FINAL	---	1.86	50.00	-48.14	N	GND
9.45	FINAL	7.52	---	60.00	-52.48	N	GND
19.16	FINAL	18.95	---	60.00	-41.05	N	GND
19.23	FINAL	---	14.02	50.00	-35.98	N	GND

Table 7-111. AC Line Conducted with 11ax UNII Band 3 – RU26 – Ch.165 (N) with AC/DC Adapter

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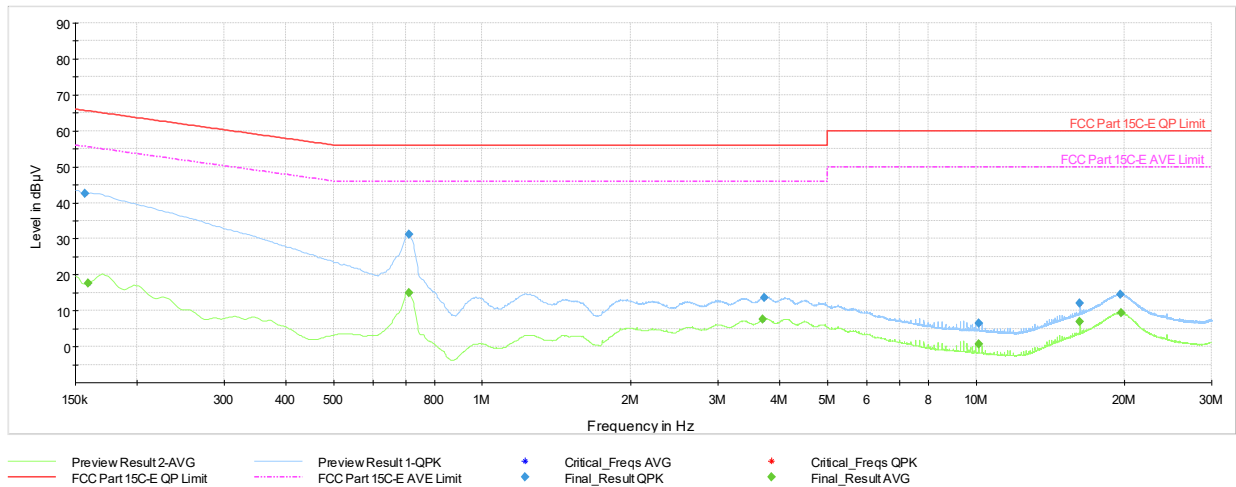


Plot 7-324. AC Line Conducted Plot with 11ax UNII Band 3 – RU242 – Ch.165 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV/m]	Average [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Line	PE
0.16	FINAL	42.36	---	65.52	-23.16	L1	GND
0.16	FINAL	---	18.42	55.40	-36.98	L1	GND
0.70	FINAL	---	17.99	46.00	-28.01	L1	GND
0.70	FINAL	31.08	---	56.00	-24.92	L1	GND
1.90	FINAL	---	5.71	46.00	-40.29	L1	GND
1.94	FINAL	14.24	---	56.00	-41.76	L1	GND
9.44	FINAL	---	2.49	50.00	-47.51	L1	GND
9.44	FINAL	7.09	---	60.00	-52.91	L1	GND
16.24	FINAL	15.28	---	60.00	-44.72	L1	GND
16.24	FINAL	---	11.26	50.00	-38.74	L1	GND
19.58	FINAL	13.81	---	60.00	-46.19	L1	GND
19.60	FINAL	---	8.62	50.00	-41.38	L1	GND

Table 7-112. AC Line Conducted with 11ax UNII Band 3 – RU242 – Ch.165 (L1) with AC/DC Adapter

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Plot 7-325. AC Line Conducted Plot with 11ax UNII Band 3 – RU242 – Ch.165 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV/m]	Average [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Line	PE
0.16	FINAL	42.63	---	65.63	-23.01	N	GND
0.16	FINAL	---	17.58	55.52	-37.94	N	GND
0.71	FINAL	---	14.92	46.00	-31.08	N	GND
0.71	FINAL	31.21	---	56.00	-24.79	N	GND
3.69	FINAL	---	7.58	46.00	-38.42	N	GND
3.73	FINAL	13.61	---	56.00	-42.39	N	GND
10.13	FINAL	6.55	---	60.00	-53.45	N	GND
10.13	FINAL	---	0.69	50.00	-49.31	N	GND
16.24	FINAL	12.08	---	60.00	-47.92	N	GND
16.24	FINAL	---	7.01	50.00	-42.99	N	GND
19.61	FINAL	14.54	---	60.00	-45.46	N	GND
19.70	FINAL	---	9.33	50.00	-40.67	N	GND

Table 7-113. AC Line Conducted with 11ax UNII Band 3 – RU242 – Ch.165 (N) with AC/DC Adapter

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 7/4/2025	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: BCGA3300** and **IC: 579C-A3300** is in compliance with 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		Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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