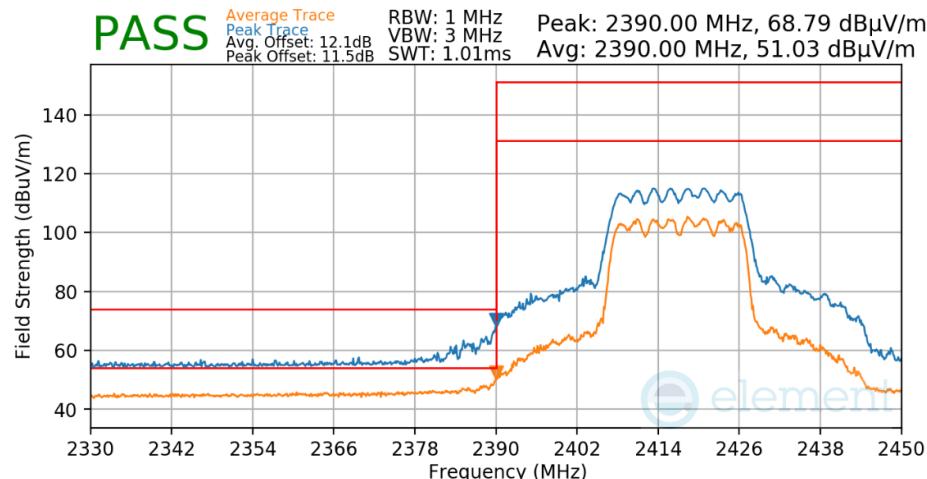


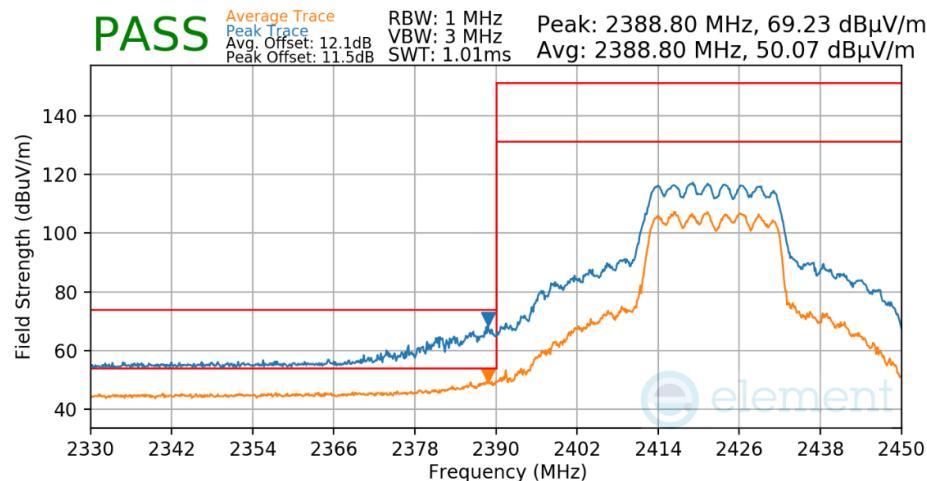


Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS9
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-193. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

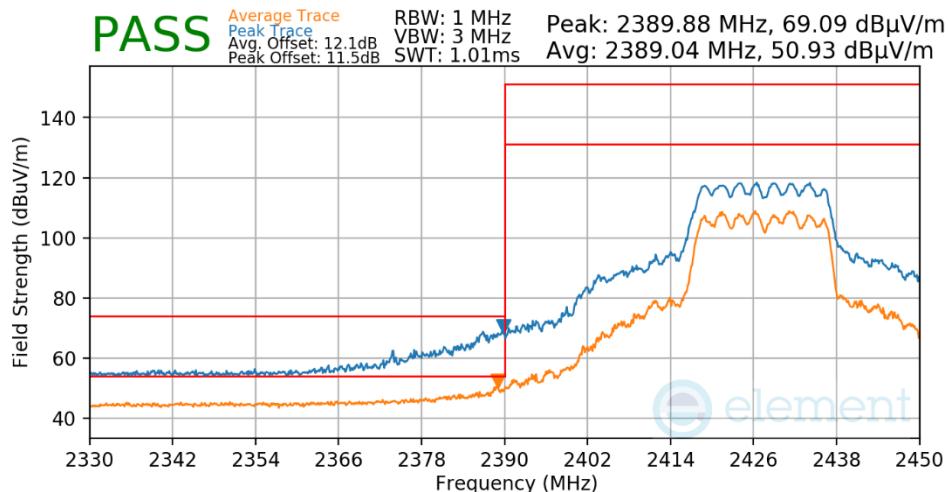
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS9
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-194. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

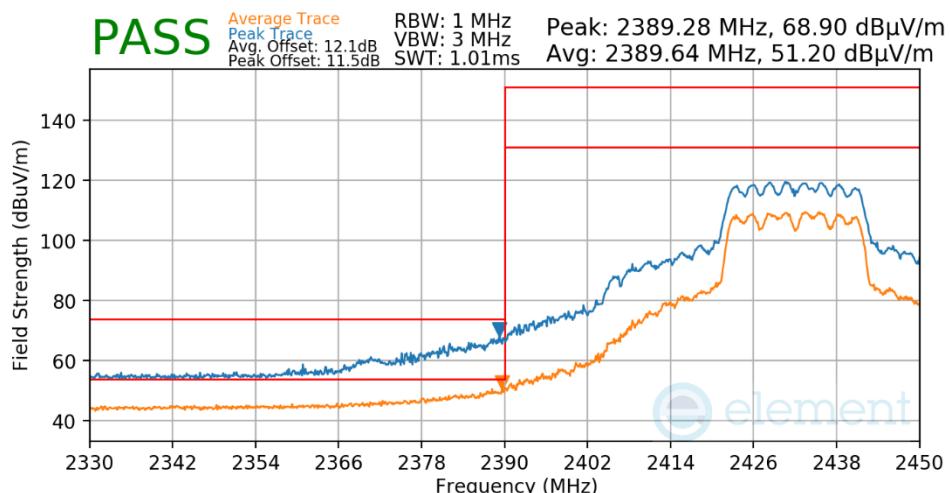
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 142 of 159

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-195. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

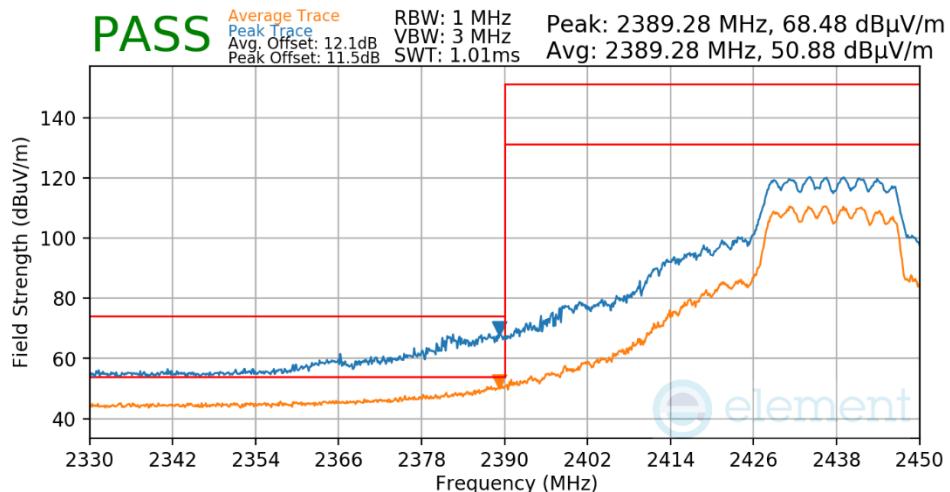
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2432MHz
 Channel: 5



Plot 7-196. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

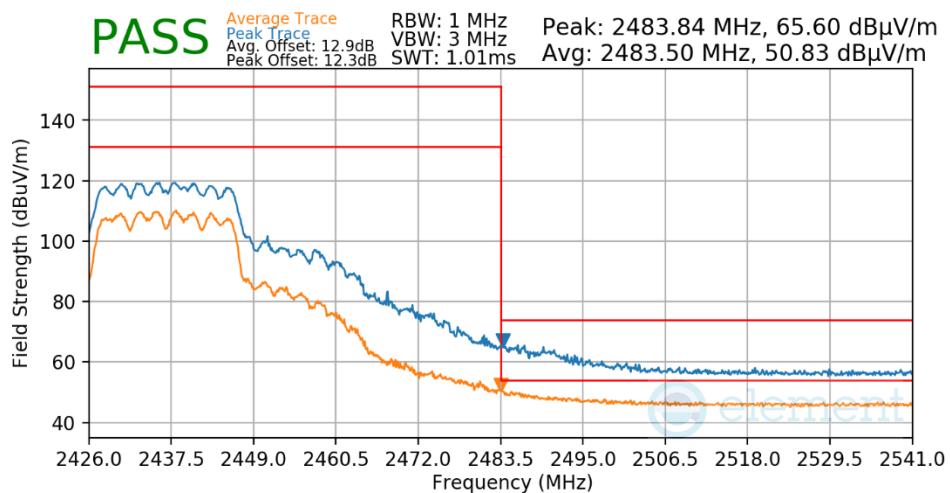
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 143 of 159

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-197. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

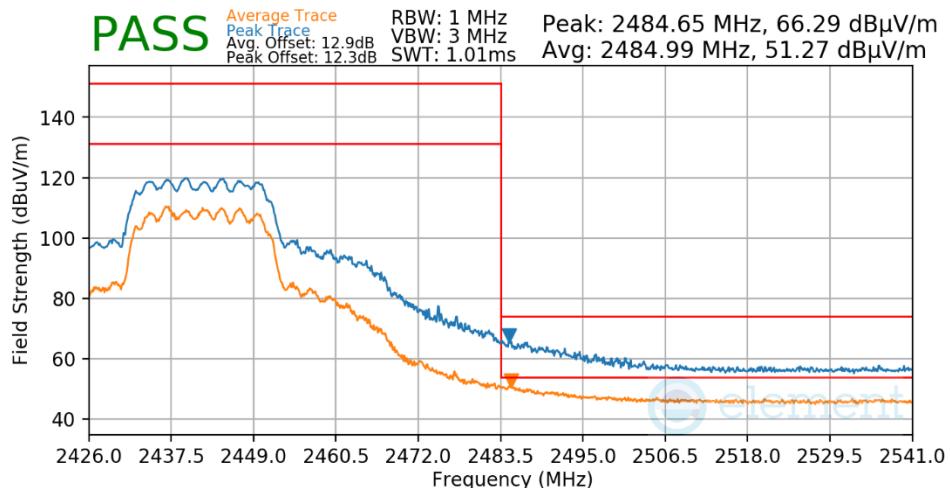
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-198. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

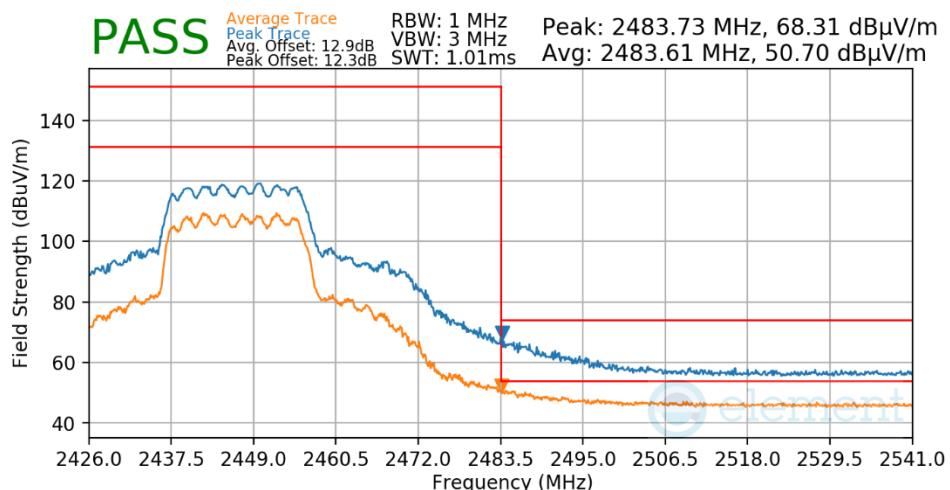
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 144 of 159

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-199. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

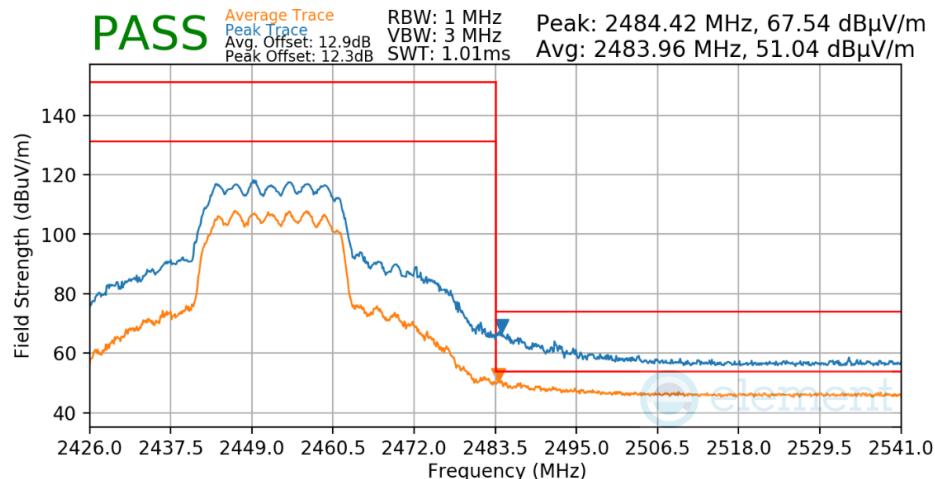
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-200. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

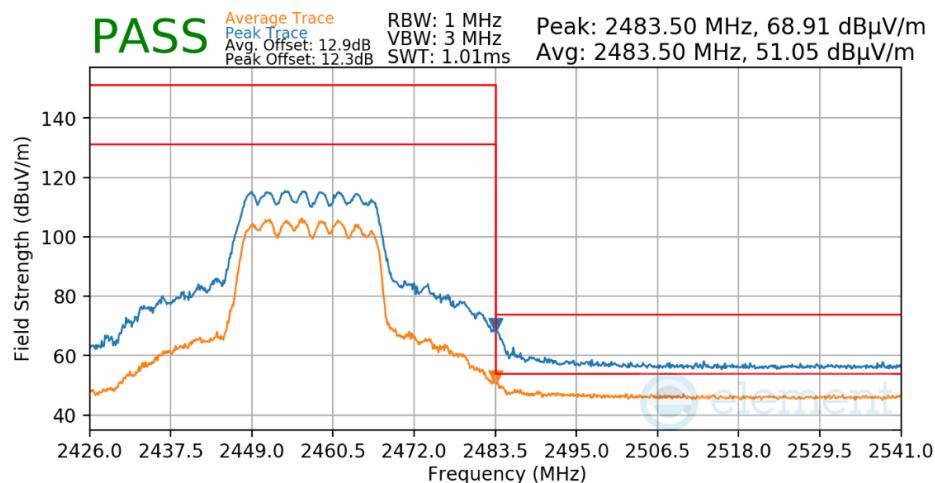
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 145 of 159

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-201. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

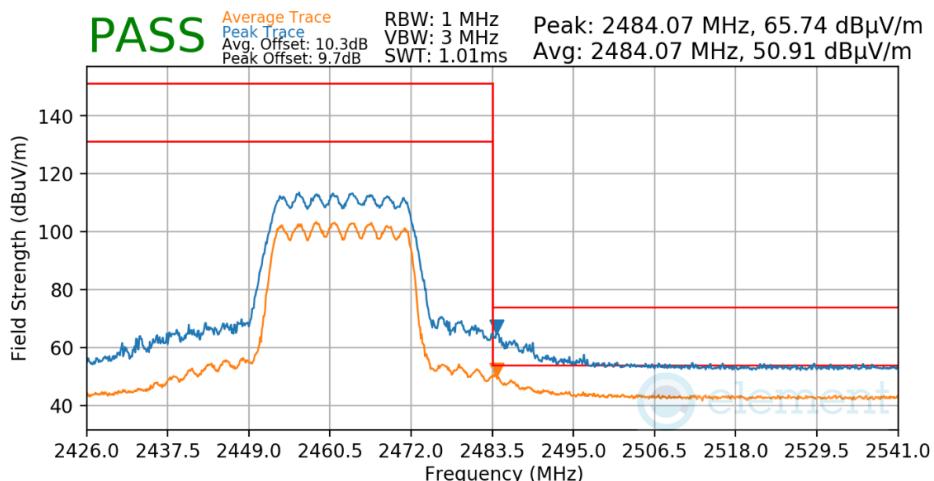
Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-202. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

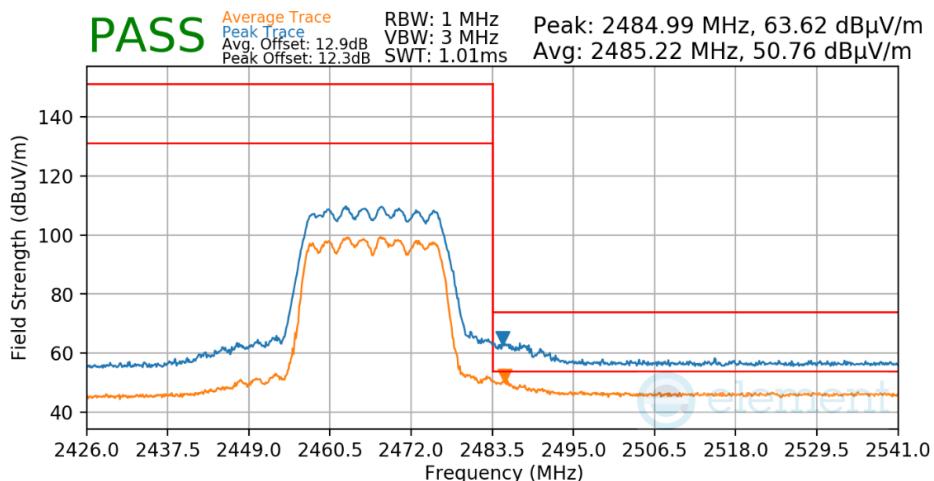
FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 146 of 159

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-203. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-204. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 147 of 159

7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-38 per Section 15.209 and RSS-Gen (8.9).

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 7-38. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

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

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

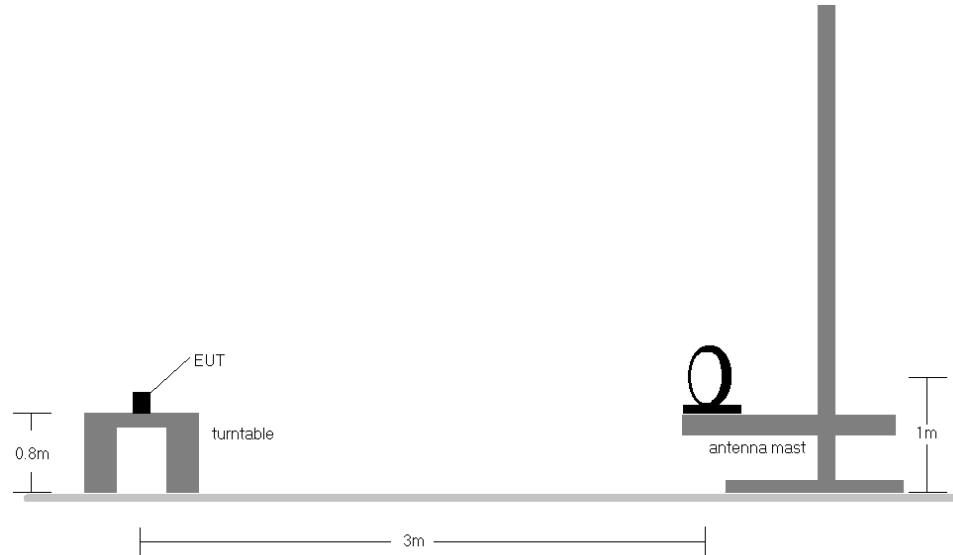


Figure 7-7. Radiated Test Setup < 30MHz

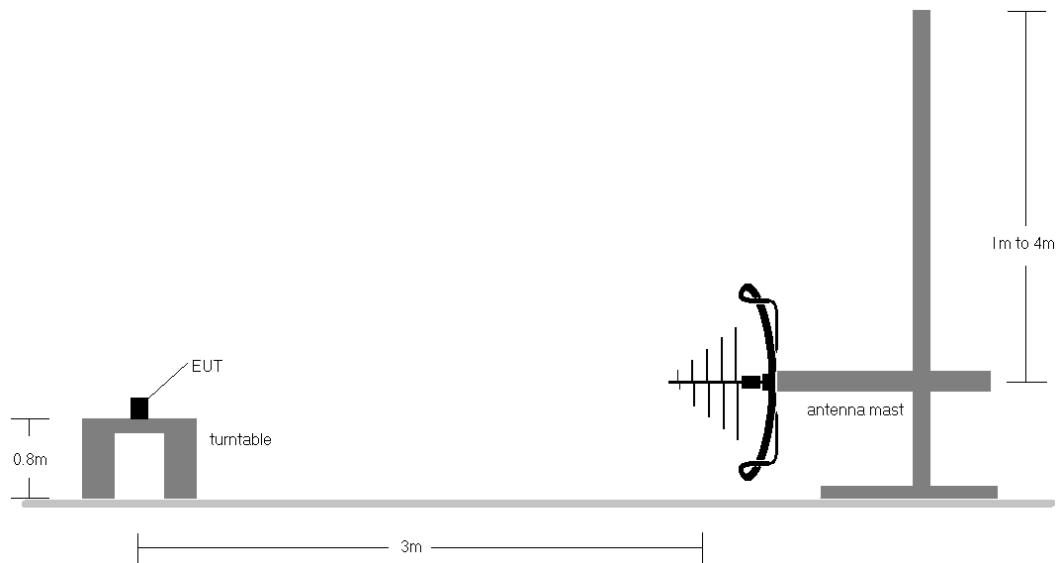


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 149 of 159

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-38.
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 with its standard battery.
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. All antenna configurations and data rates were investigated and only the worst case are reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
11. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

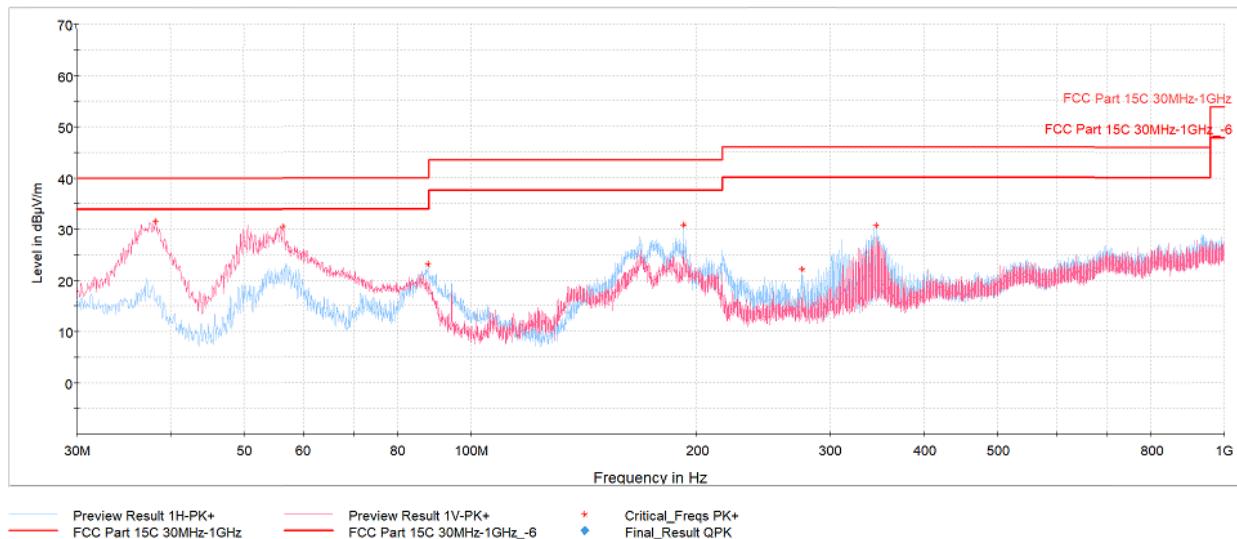
Determining Spurious Emissions Levels

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

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

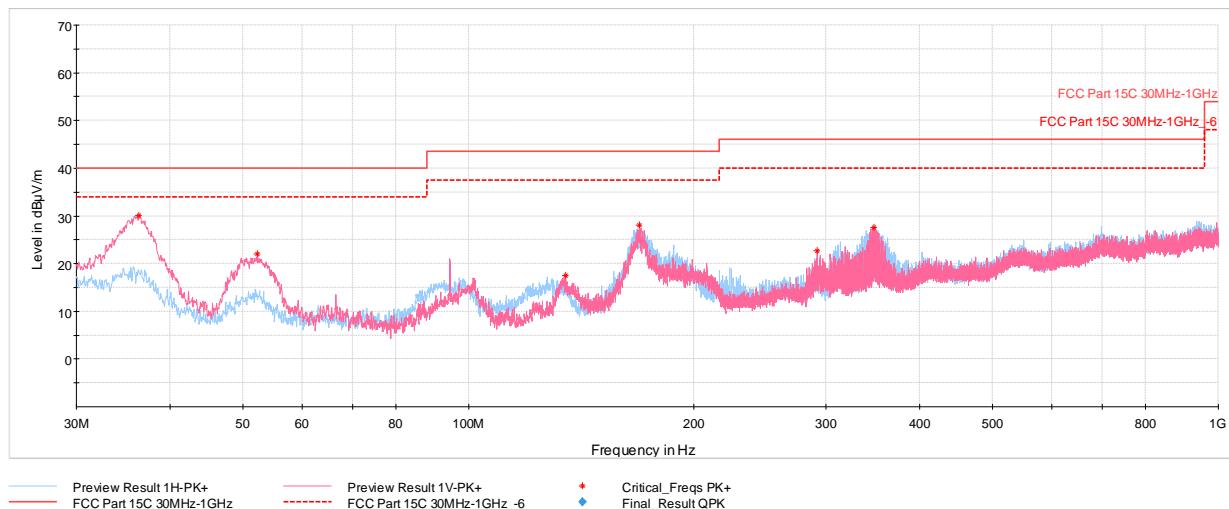


Plot 7-205. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
38.15	Max-Peak	V	100	96	-62.10	-13.34	31.56	40.00	-8.44
56.38	Max-Peak	V	100	41	-58.29	-18.27	30.44	40.00	-9.56
87.86	Max-Peak	H	300	165	-66.42	-17.50	23.08	40.00	-16.92
191.99	Max-Peak	H	100	202	-62.64	-13.56	30.80	43.52	-12.72
275.85	Max-Peak	H	100	105	-74.87	-10.02	22.11	46.02	-23.91
345.40	Max-Peak	H	100	321	-68.74	-7.62	30.64	46.02	-15.38

Table 7-39. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-206. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), 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]
36.35	Max-Peak	V	100	359	-64.41	-12.51	30.08	40.00	-9.92
52.31	Max-Peak	V	100	342	-66.58	-18.30	22.12	40.00	-17.88
134.86	Max-Peak	V	100	90	-74.27	-15.27	17.46	43.52	-26.06
169.10	Max-Peak	V	200	252	-65.80	-13.16	28.04	43.52	-15.48
291.90	Max-Peak	V	100	243	-74.52	-9.84	22.64	46.02	-23.38
347.68	Max-Peak	H	100	324	-71.99	-7.44	27.57	46.02	-18.45

Table 7-40. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

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 (8.8).

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 7-39. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, 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

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

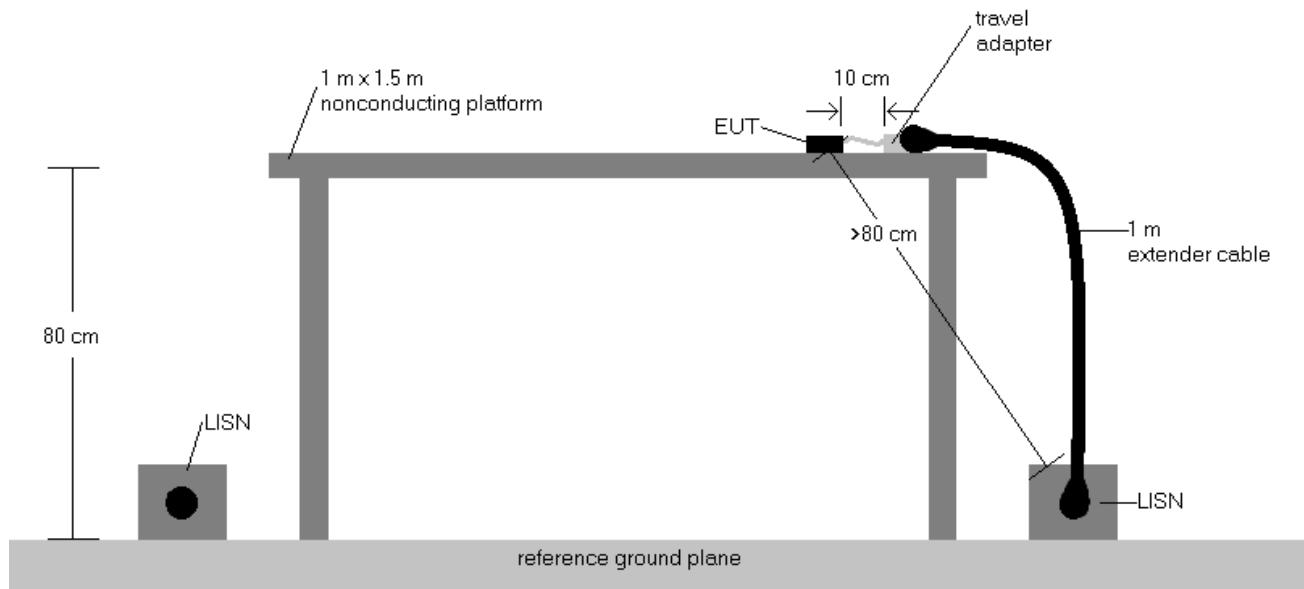
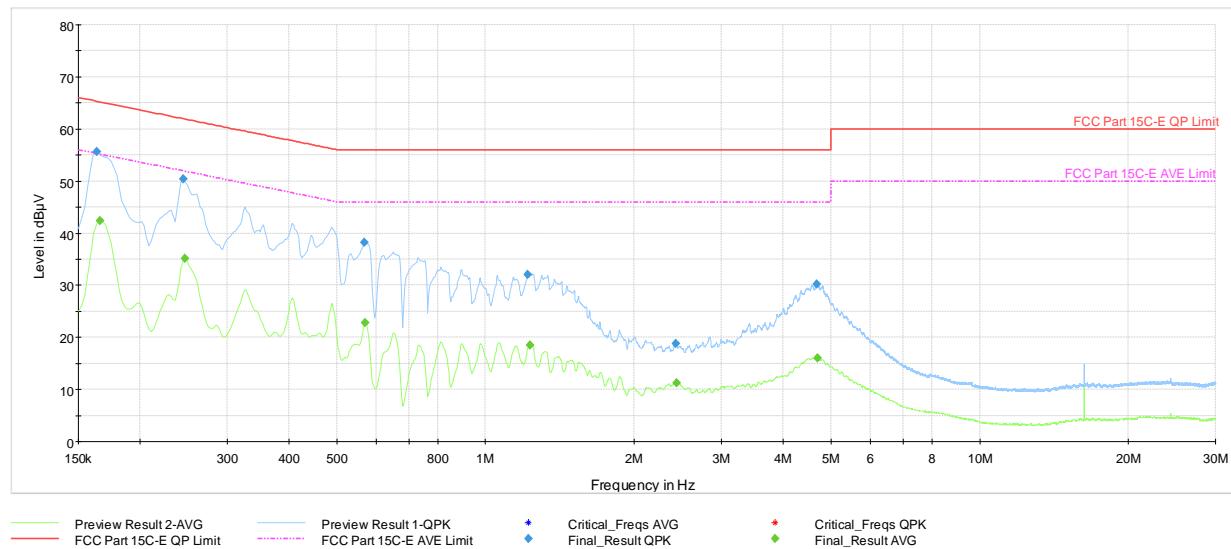


Figure 7-9. Test Instrument & Measurement Setup

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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.
9. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 154 of 159

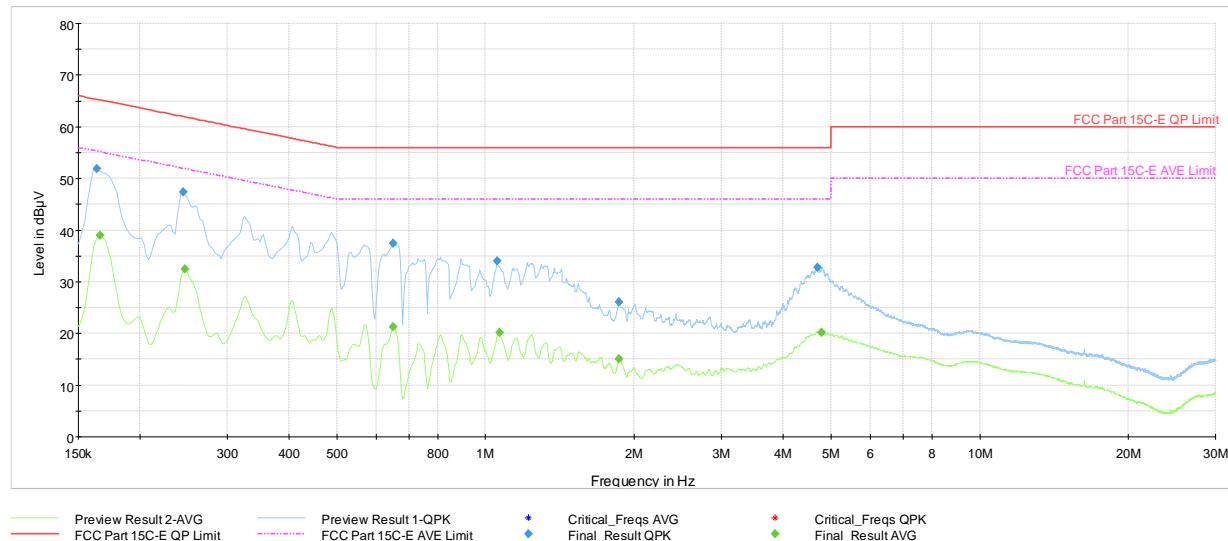


Plot 7-207. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	55.7	—	65.28	-9.57	L1	GND
0.166	FINAL	—	42.45	55.17	-12.72	L1	GND
0.245	FINAL	50.4	—	61.94	-11.56	L1	GND
0.247	FINAL	—	35.11	51.87	-16.75	L1	GND
0.569	FINAL	38.2	—	56.00	-17.77	L1	GND
0.571	FINAL	—	22.76	46.00	-23.24	L1	GND
1.217	FINAL	32.1	—	56.00	-23.87	L1	GND
1.232	FINAL	—	18.50	46.00	-27.50	L1	GND
2.429	FINAL	18.8	—	56.00	-37.18	L1	GND
2.434	FINAL	—	11.32	46.00	-34.68	L1	GND
4.684	FINAL	30.3	—	56.00	-25.73	L1	GND
4.704	FINAL	—	16.09	46.00	-29.91	L1	GND

Table 7-40. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (L1, with AC/DC Adapter)

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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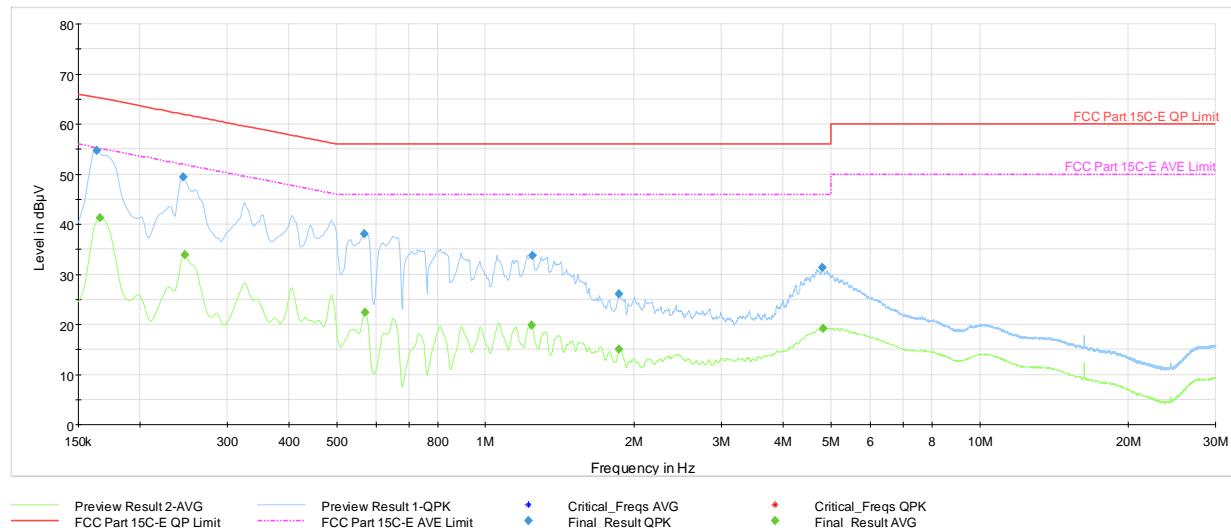


Plot 7-208. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	51.9	—	65.28	-13.42	N	GND
0.166	FINAL	—	38.95	55.17	-16.22	N	GND
0.245	FINAL	47.3	—	61.94	-14.64	N	GND
0.247	FINAL	—	32.41	51.87	-19.46	N	GND
0.650	FINAL	—	21.29	46.00	-24.71	N	GND
0.650	FINAL	37.4	—	56.00	-18.58	N	GND
1.055	FINAL	34.0	—	56.00	-21.99	N	GND
1.068	FINAL	—	20.12	46.00	-25.88	N	GND
1.862	FINAL	—	15.07	46.00	-30.93	N	GND
1.865	FINAL	26.0	—	56.00	-29.97	N	GND
4.693	FINAL	32.8	—	56.00	-23.21	N	GND
4.781	FINAL	—	20.21	46.00	-25.79	N	GND

Table 7-41. AC Line Conducted Emissions with 802.11ax CDD (RU26) Ch.6 (N, with AC/DC Adapter)

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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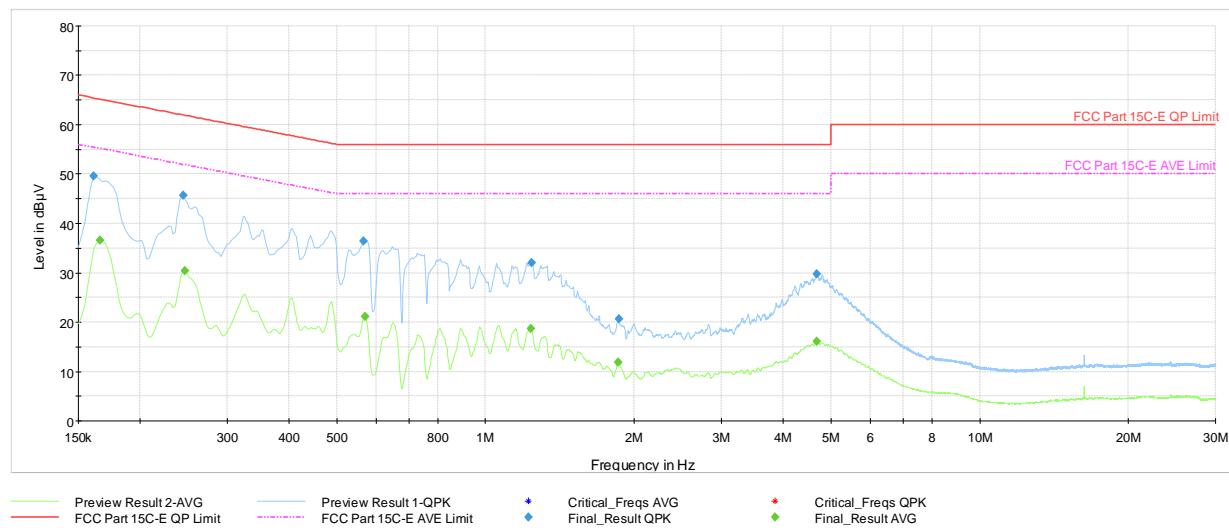


Plot 7-209. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	54.7	—	65.28	-10.59	L1	GND
0.166	FINAL	—	41.29	55.17	-13.88	L1	GND
0.245	FINAL	49.4	—	61.94	-12.55	L1	GND
0.247	FINAL	—	33.84	51.87	-18.03	L1	GND
0.569	FINAL	38.1	—	56.00	-17.87	L1	GND
0.571	FINAL	—	22.40	46.00	-23.60	L1	GND
1.241	FINAL	—	19.92	46.00	-26.08	L1	GND
1.246	FINAL	33.8	—	56.00	-22.22	L1	GND
1.862	FINAL	26.1	—	56.00	-29.91	L1	GND
1.862	FINAL	—	15.12	46.00	-30.88	L1	GND
4.805	FINAL	31.4	—	56.00	-24.62	L1	GND
4.828	FINAL	—	19.25	46.00	-26.75	L1	GND

Table 7-42. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (L1, with AC/DC Adapter)

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-210. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (N, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.161	FINAL	49.6	—	65.40	-15.77	N	GND
0.166	FINAL	—	36.63	55.17	-18.54	N	GND
0.245	FINAL	45.6	—	61.94	-16.30	N	GND
0.247	FINAL	—	30.45	51.87	-21.42	N	GND
0.566	FINAL	36.5	—	56.00	-19.53	N	GND
0.571	FINAL	—	21.13	46.00	-24.87	N	GND
1.235	FINAL	—	18.69	46.00	-27.31	N	GND
1.239	FINAL	32.0	—	56.00	-24.03	N	GND
1.853	FINAL	—	11.83	46.00	-34.17	N	GND
1.860	FINAL	20.6	—	56.00	-35.36	N	GND
4.673	FINAL	—	16.09	46.00	-29.91	N	GND
4.684	FINAL	29.8	—	56.00	-26.25	N	GND

Table 7-43. AC Line Conducted Emissions with 802.11ax CDD (RU242) Ch.6 (N, with AC/DC Adapter)

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 158 of 159

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Portable Tablet** **FCC ID: BCGA2696, IC: 579C-A2696** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2696 IC: 579C-A2696	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-02.BCG	Test Dates: 8/2/2022-9/7/2022	EUT Type: Tablet Device	Page 159 of 159

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