

 Mode:
 802.11ax OFDMA

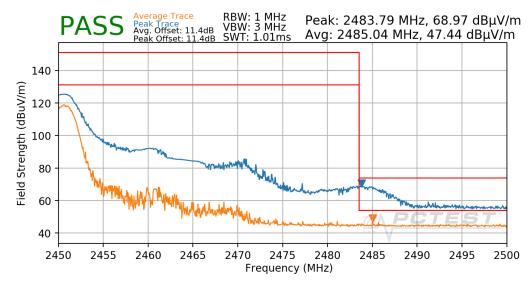
 Data Rate:
 MCS5

 RU Index:
 8

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2442MHz

 Channel:
 7



Plot 7-214. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

 Mode:
 802.11ax OFDMA

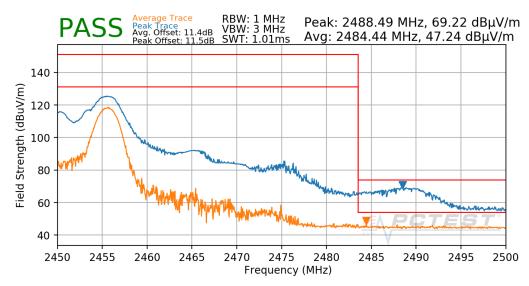
 Data Rate:
 MCS5

 RU Index:
 8

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2447MHz

 Channel:
 8

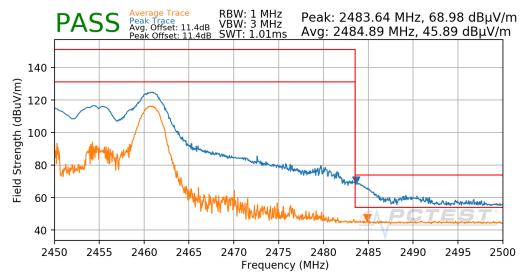


Plot 7-215. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 455 of 475
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Mode:802.11ax OFDMAData Rate:MCS5RU Index:8Distance of Measurements:3 MetersOperating Frequency:2452MHzChannel:9



Plot 7-216. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

 Mode:
 802.11ax OFDMA

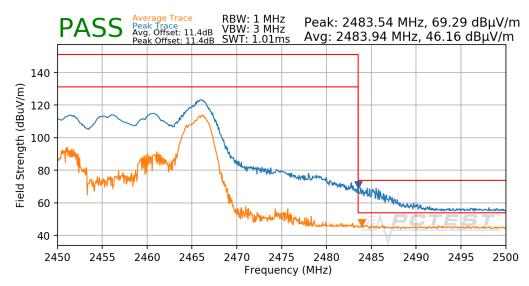
 Data Rate:
 MCS5

 RU Index:
 8

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2457MHz

 Channel:
 10



Plot 7-217. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 450 of 475
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 Mode:
 802.11ax OFDMA

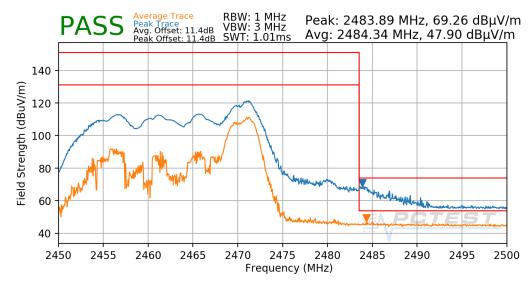
 Data Rate:
 MCS5

 RU Index:
 8

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2462MHz

 Channel:
 11



Plot 7-218. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

 Mode:
 802.11ax OFDMA

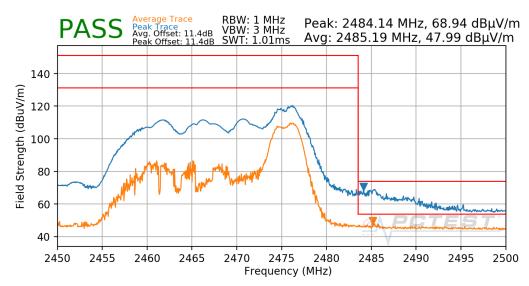
 Data Rate:
 MCS5

 RU Index:
 8

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2467MHz

 Channel:
 12



Plot 7-219. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 457 of 475
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 Mode:
 802.11ax OFDMA

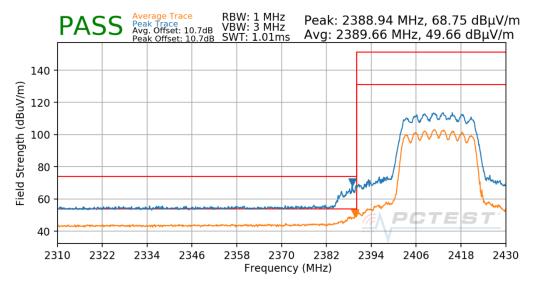
 Data Rate:
 MCS5

 RU Index:
 61

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2412MHz

 Channel:
 1



Plot 7-220. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

 Mode:
 802.11ax OFDMA

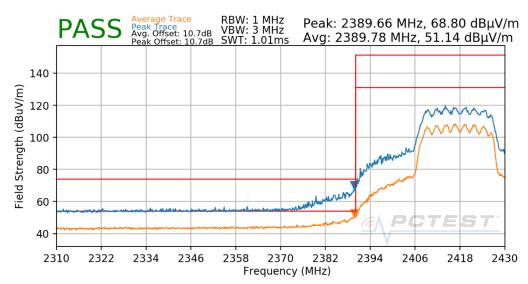
 Data Rate:
 MCS5

 RU Index:
 61

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2417MHz

 Channel:
 2

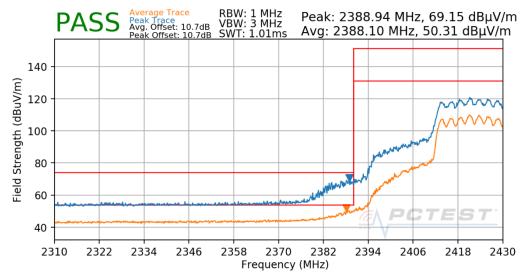


Plot 7-221. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 150 of 175
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Mode:802.11ax OFDMAData Rate:MCS5RU Index:61Distance of Measurements:3 MetersOperating Frequency:2422MHzChannel:3



Plot 7-222. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

 Mode:
 802.11ax OFDMA

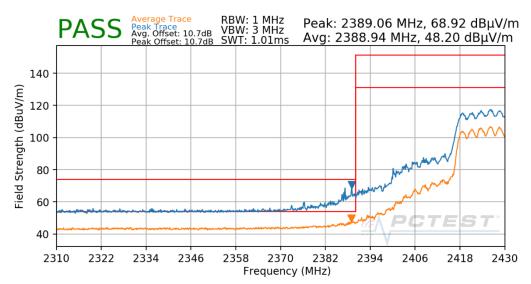
 Data Rate:
 MCS5

 RU Index:
 0

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2427MHz

 Channel:
 4



Plot 7-223. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 150 of 175
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 Mode:
 802.11ax OFDMA

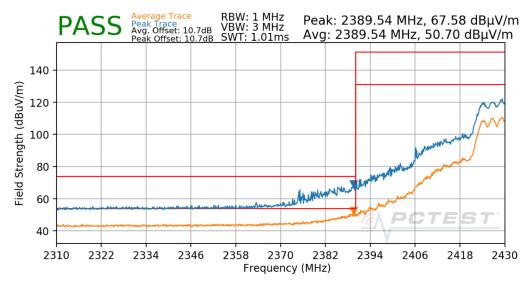
 Data Rate:
 MCS5

 RU Index:
 0

 Distance of Measurements:
 3 Meters

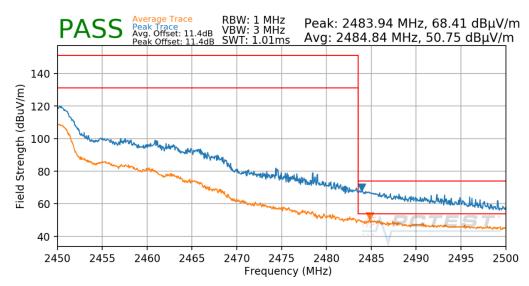
 Operating Frequency:
 2432MHz

 Channel:
 5



Plot 7-224. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average - RU242)

Mode:802.11ax OFDMAData Rate:MCS5RU Index:8Distance of Measurements:3 MetersOperating Frequency:2442MHzChannel:7

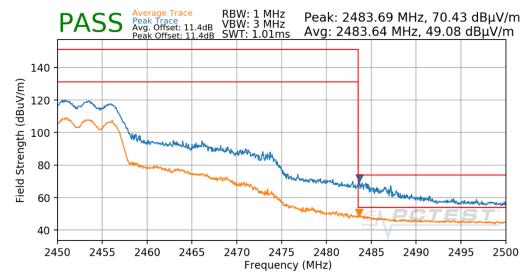


Plot 7-225. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 175
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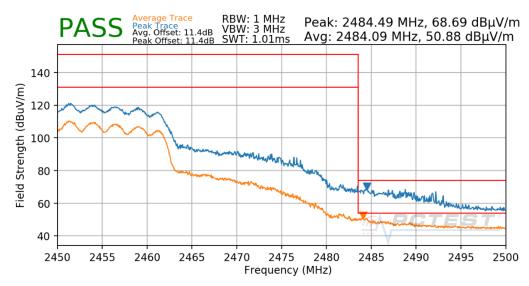


Mode:802.11ax OFDMAData Rate:MCS5RU Index:8Distance of Measurements:3 MetersOperating Frequency:2447MHzChannel:8



Plot 7-226. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Mode:802.11ax OFDMAData Rate:MCS5RU Index:61Distance of Measurements:3 MetersOperating Frequency:2452MHzChannel:9



Plot 7-227. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 161 of 175
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 Mode:
 802.11ax OFDMA

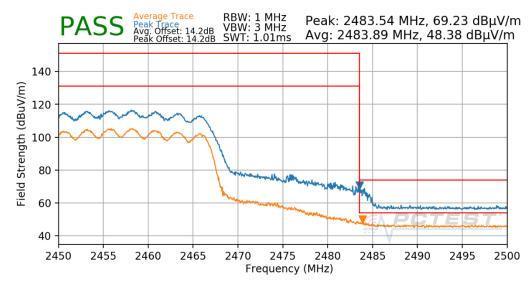
 Data Rate:
 MCS5

 RU Index:
 61

 Distance of Measurements:
 3 Meters

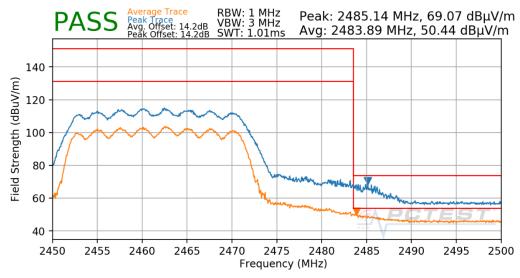
 Operating Frequency:
 2457MHz

 Channel:
 10



Plot 7-228. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU242)

Mode:802.11ax OFDMAData Rate:MCS5RU Index:61Distance of Measurements:3 MetersOperating Frequency:2462MHzChannel:11



Plot 7-229. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU242)

FCC ID: BCGA2378 IC: 579C-A2378	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 402 of 475
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 Mode:
 802.11ax OFDMA

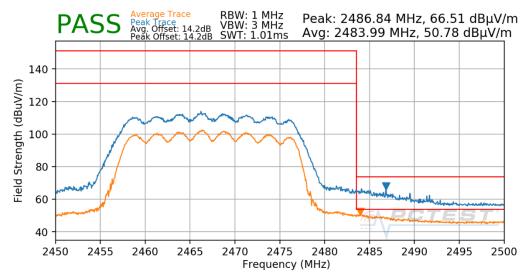
 Data Rate:
 MCS5

 RU Index:
 61

 Distance of Measurements:
 3 Meters

 Operating Frequency:
 2467MHz

 Channel:
 12



Plot 7-230. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU242)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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 [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 7-38. 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
- 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
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- Sweep time = auto couple
- Trace mode = max hold

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Setup

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

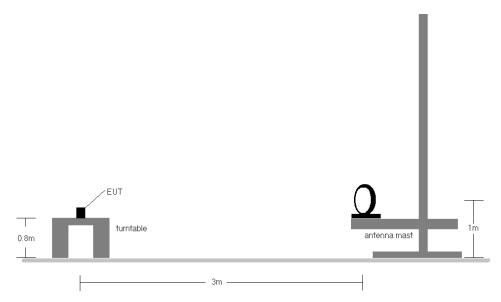


Figure 7-7. Radiated Test Setup < 30Mhz

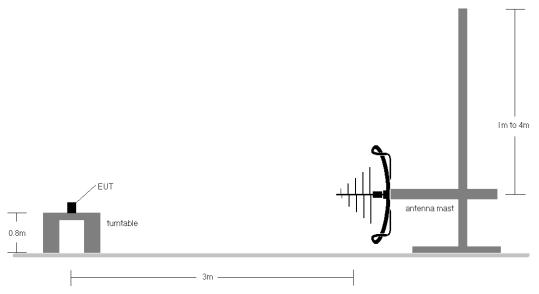


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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.
- 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. 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
- 8. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 9. 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.
- 10. All antenna configurations and data rates were investigated and only the worst case are reported.
- 11. 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.

Sample Calculations

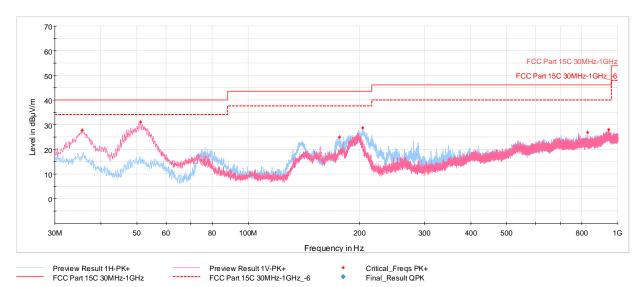
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- O AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

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Test Report S/N: Test D	ates: EUT Ty	ype:	Page 166 of 175	
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CDD Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-231. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

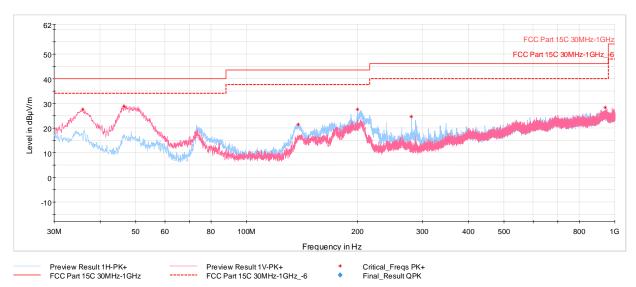
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
35.58	Max Peak	V	100	340	-64.72	-14.58	27.70	40.00	-12.30
51.19	Max Peak	V	100	53	-54.84	-21.09	31.07	40.00	-8.93
176.66	Max Peak	Н	100	250	-65.00	-16.96	25.04	43.52	-18.48
203.97	Max Peak	Н	100	1	-61.47	-16.78	28.75	43.52	-14.77
828.07	Max Peak	V	100	121	-77.80	-2.40	26.80	46.02	-19.22
946.07	Max Peak	V	100	241	-79.24	0.13	27.89	46.02	-18.13

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

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-232. 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]
35.87	Max Peak	V	100	356	-64.69	-14.73	27.58	40.00	-12.42
46.44	Max Peak	V	100	348	-57.96	-20.18	28.86	40.00	-11.14
138.11	Max Peak	Н	100	220	-66.93	-18.59	21.48	43.52	-22.04
199.99	Max Peak	Н	100	238	-62.36	-17.09	27.55	43.52	-15.97
279.97	Max Peak	Н	100	225	-67.70	-14.75	24.55	46.02	-21.47
942.19	Max Peak	Н	100	261	-78.83	0.22	28.39	46.02	-17.63

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

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality 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 (dBμV)
(IVITIZ)	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-41. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 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)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

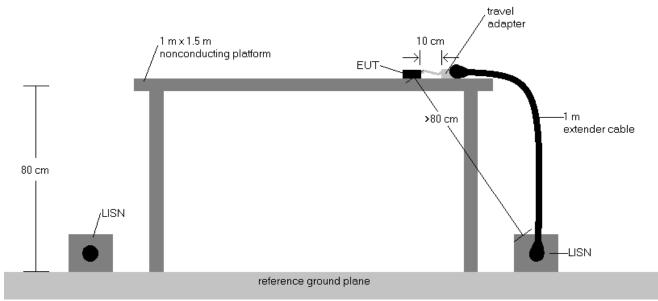


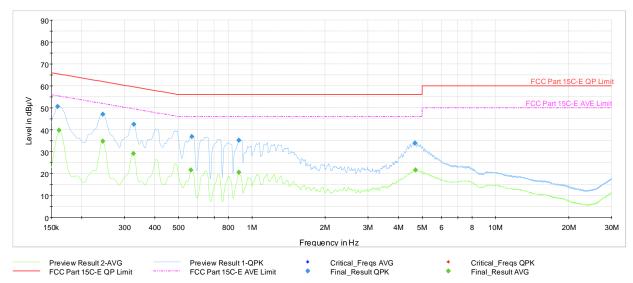
Figure 7-9. Test Instrument & Measurement Setup

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 Factore (dB)
- Margin (dB) = QP/AV Level (dB_μV) QP/AV Limit (dB_μV)
- 7. Traces shown in plot are made using guasi 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: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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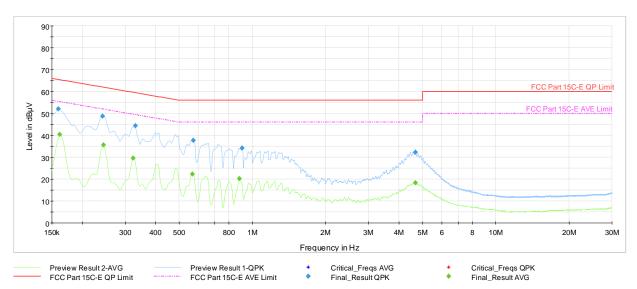
Plot 7-233. AC Line Conducted Emissions with CDD 802.11ax (RU26) Ch.6 (L1, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.159	FINAL	50.6	_	65.52	-14.94	L1	GND
0.161	FINAL	_	39.70	55.40	-15.70	L1	GND
0.245	FINAL	47.1	1	61.94	-14.84	L1	GND
0.245	FINAL	_	34.86	51.94	-17.08	L1	GND
0.326	FINAL	_	29.18	49.57	-20.39	L1	GND
0.328	FINAL	42.6		59.51	-16.91	L1	GND
0.562	FINAL	_	21.62	46.00	-24.38	L1	GND
0.566	FINAL	36.9		56.00	-19.10	L1	GND
0.884	FINAL	_	20.60	46.00	-25.40	L1	GND
0.884	FINAL	35.2		56.00	-20.79	L1	GND
4.682	FINAL	34.1		56.00	-21.95	L1	GND
4.686	FINAL	_	21.61	46.00	-24.39	L1	GND

Table 7-42. AC Line Conducted Data with CDD 802.11ax (RU26) Ch.6 (L1, with Adapter)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-234. AC Line Conducted Emissions with CDD 802.11ax (RU26) Ch.6 (N, with Adapter)

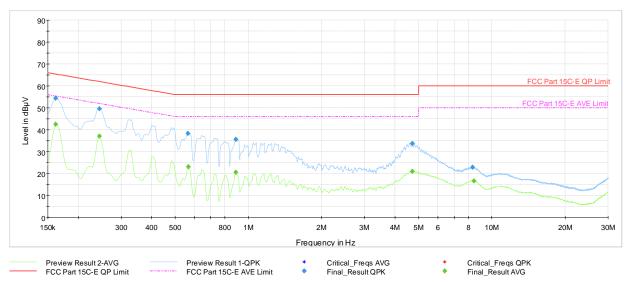
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµ√]	Marqin [dB]	Line	PE
0.159	FINAL	52.0		65.52	-13.49	N	GND
0.161	FINAL	_	40.32	55.40	-15.07	Ν	GND
0.242	FINAL	48.7		62.02	-13.33	Ν	GND
0.245	FINAL	_	35.58	51.94	-16.36	Ν	GND
0.323	FINAL	_	29.49	49.62	-20.13	Ν	GND
0.330	FINAL	44.3		59.45	-15.13	N	GND
0.566	FINAL	_	22.33	46.00	-23.67	Ν	GND
0.571	FINAL	37.6		56.00	-18.38	N	GND
0.884	FINAL	_	20.12	46.00	-25.88	Ν	GND
0.906	FINAL	34.1		56.00	-21.93	N	GND
4.679	FINAL	32.2		56.00	-23.79	N	GND
4.679	FINAL	_	18.31	46.00	-27.69	Ν	GND

Table 7-43. AC Line Conducted Data with CDD 802.11ax (RU26) Ch.6 (N, with Adapter)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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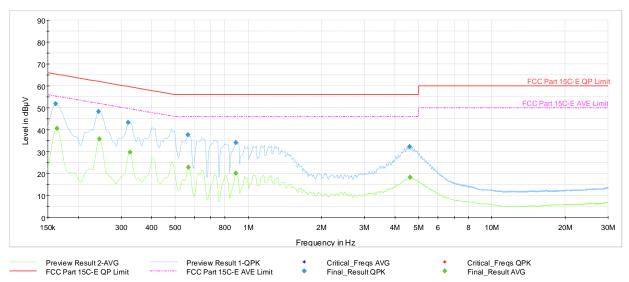
Plot 7-235. AC Line Conducted Emissions with CDD 802.11ax (RU242) Ch.6 (L1, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB µ V]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.161	FINAL	54.4	_	65.40	-10.98	L1	GND
0.161	FINAL	_	42.48	55.40	-12.91	L1	GND
0.245	FINAL	49.6	_	61.94	-12.39	L1	GND
0.245	FINAL	_	37.08	51.94	-14.86	L1	GND
0.564	FINAL	38.3	_	56.00	-17.68	L1	GND
0.566	FINAL	_	23.02	46.00	-22.98	L1	GND
0.886	FINAL	_	20.66	46.00	-25.34	L1	GND
0.886	FINAL	35.6	_	56.00	-20.44	L1	GND
4.704	FINAL	_	21.10	46.00	-24.90	L1	GND
4.709	FINAL	33.8	I	56.00	-22.24	L1	GND
8.331	FINAL	22.9	_	60.00	-37.14	L1	GND
8.426	FINAL	_	16.58	50.00	-33.42	L1	GND

Table 7-44. AC Line Conducted Data with CDD 802.11ax (RU242) Ch.6 (L1, with Adapter)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-236. AC Line Conducted Emissions with CDD 802.11ax (RU242) Ch.6 (N, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB µ V]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.161	FINAL	51.9	_	65.40	-13.47	N	GND
0.164	FINAL	_	40.57	55.28	-14.71	N	GND
0.242	FINAL	48.3	_	62.02	-13.69	N	GND
0.245	FINAL	_	35.78	51.94	-16.16	N	GND
0.321	FINAL	43.3	_	59.68	-16.37	N	GND
0.326	FINAL	_	29.79	49.57	-19.78	N	GND
0.564	FINAL	37.7	_	56.00	-18.34	N	GND
0.566	FINAL	_	22.89	46.00	-23.11	N	GND
0.886	FINAL	_	20.28	46.00	-25.72	N	GND
0.886	FINAL	34.2	I	56.00	-21.79	N	GND
4.594	FINAL	32.3		56.00	-23.68	N	GND
4.603	FINAL	_	18.38	46.00	-27.62	N	GND

Table 7-45. AC Line Conducted Data with CDD 802.11ax (RU242) Ch.6 (N, with Adapter)

FCC ID: BCGA2378 IC: 579C-A2378	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2378, IC: 579C-A2378** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2378 IC: 579C-A2378 Proud to be port of @ element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: Test Dates:		EUT Type:	Page 175 of 175
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