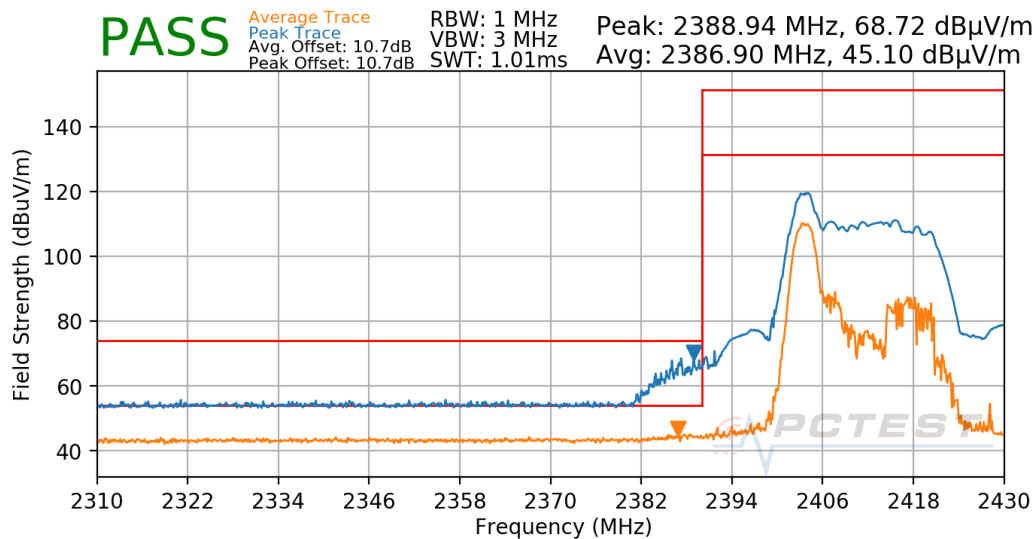


7.7.5 Antenna 2a Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

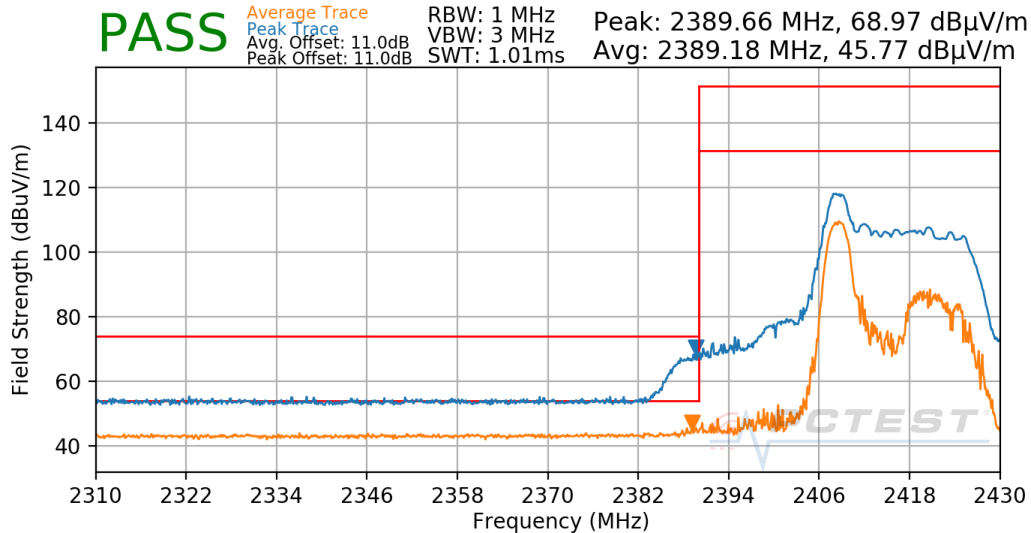
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-159. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

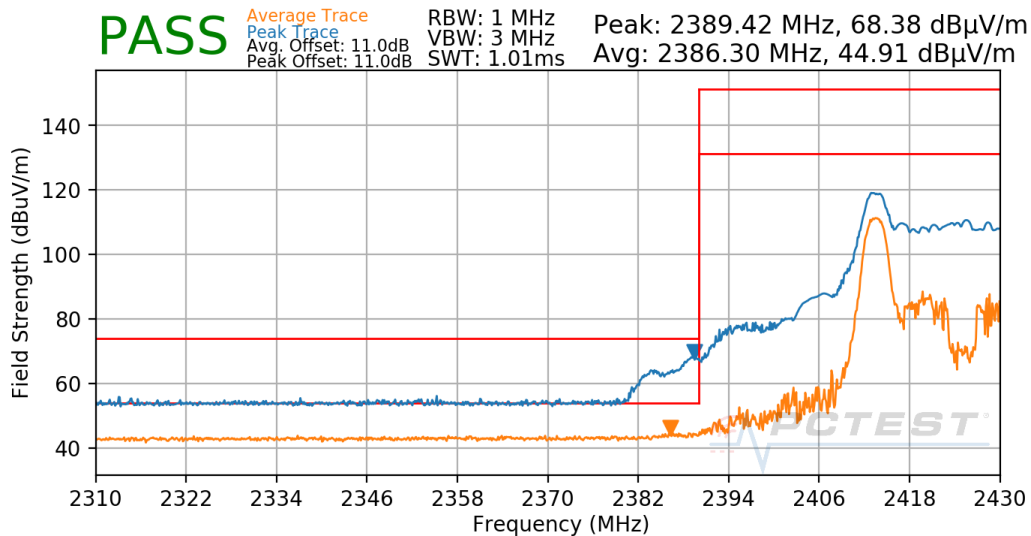
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 126 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-160. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

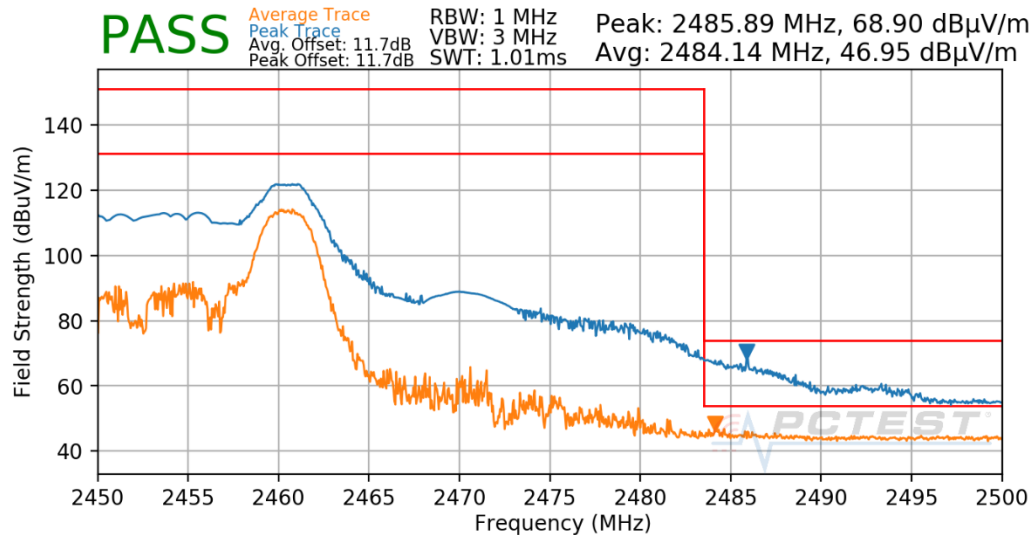
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-161. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

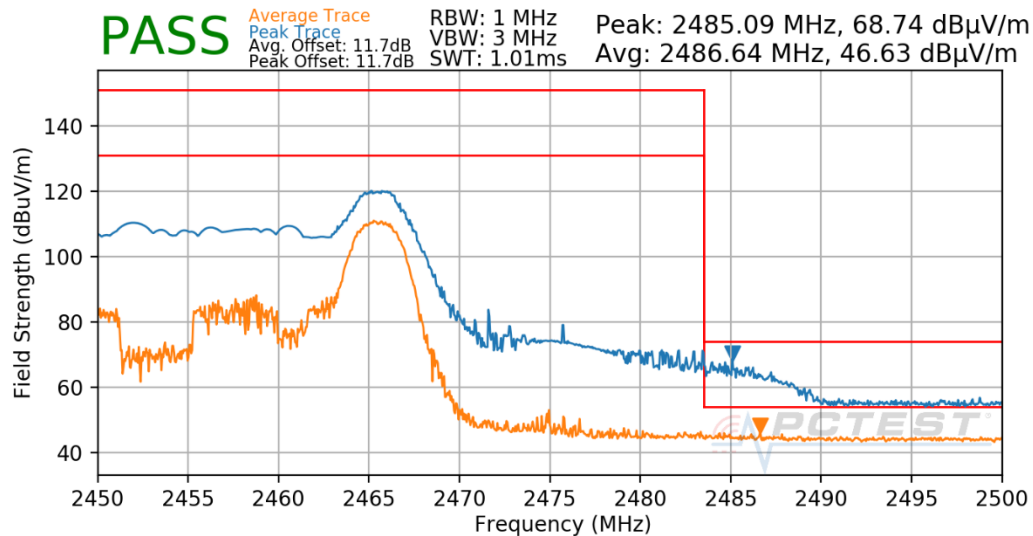
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 127 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-162. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

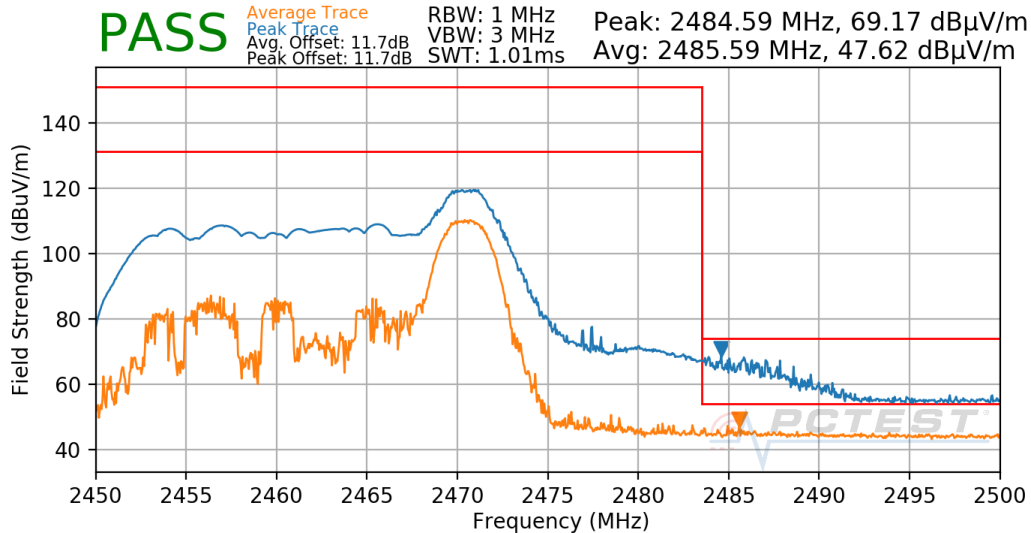
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-163. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

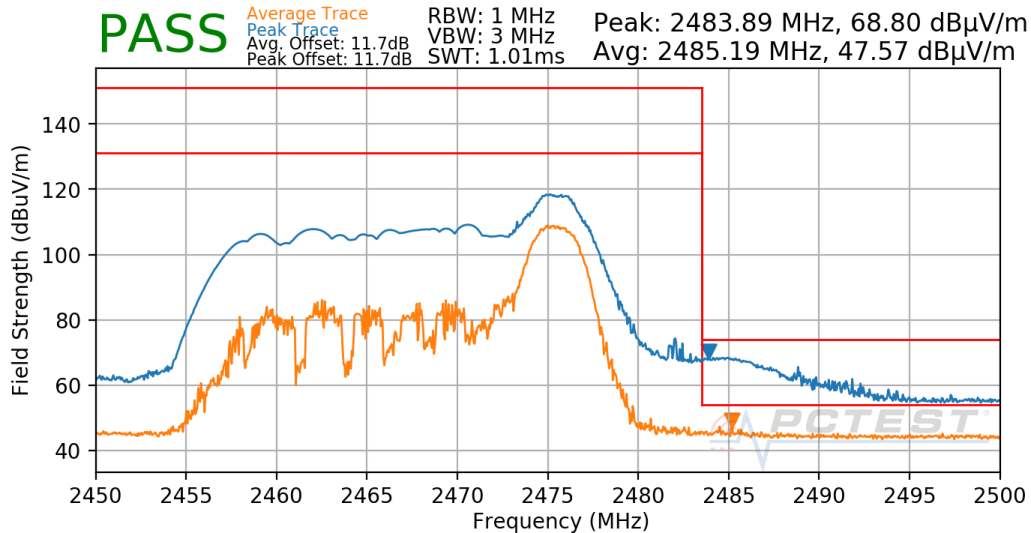
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 128 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-164. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

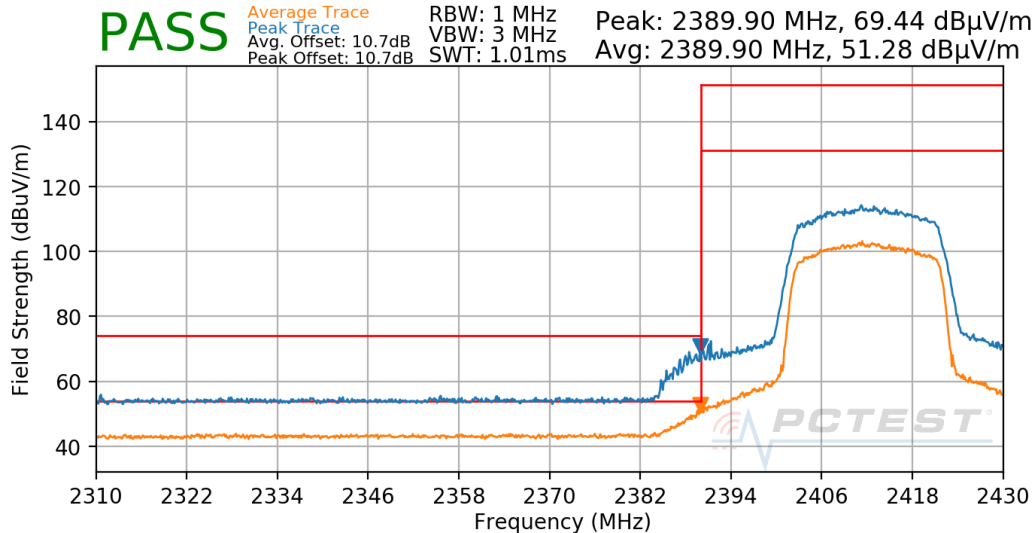
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-165. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

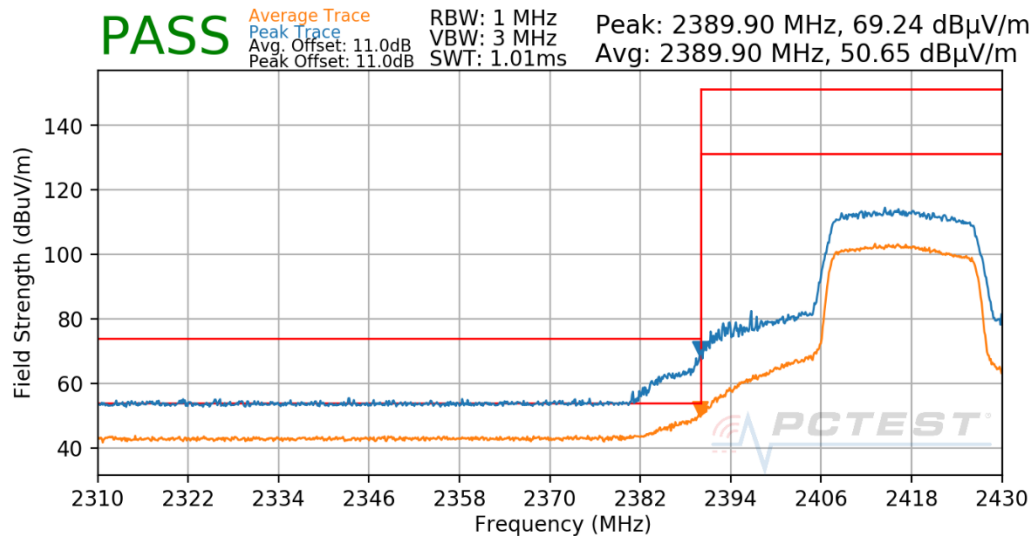
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 129 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-166. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

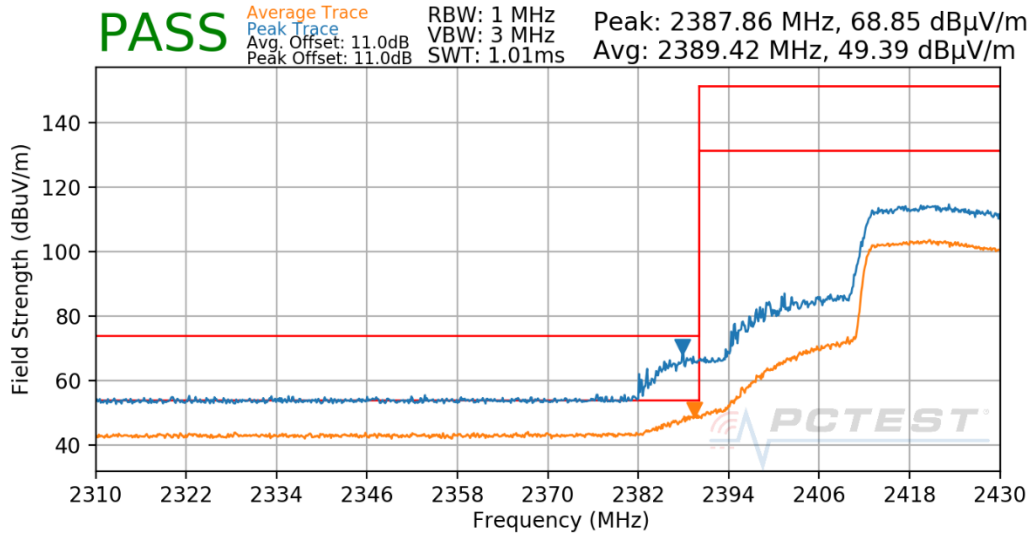
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-167. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

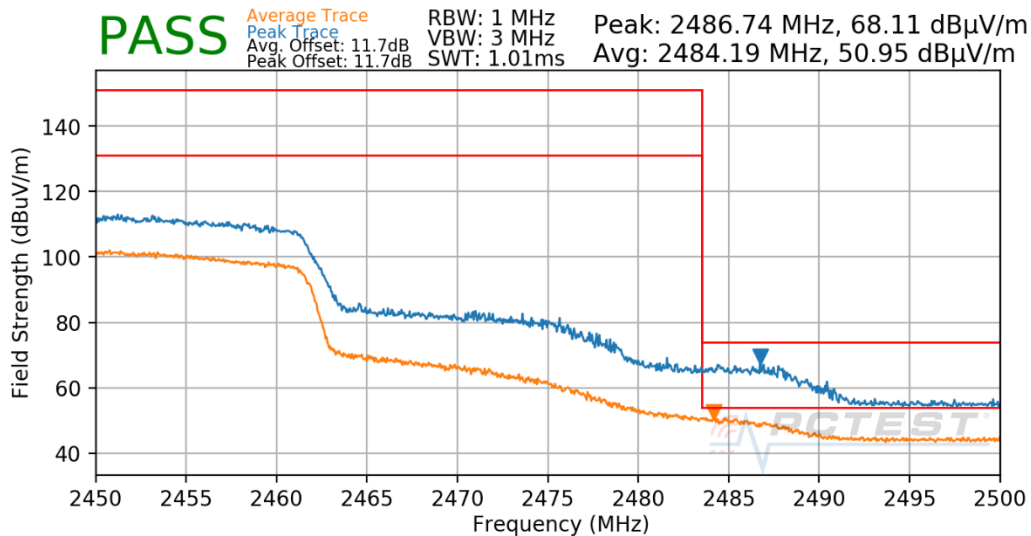
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 130 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-168. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

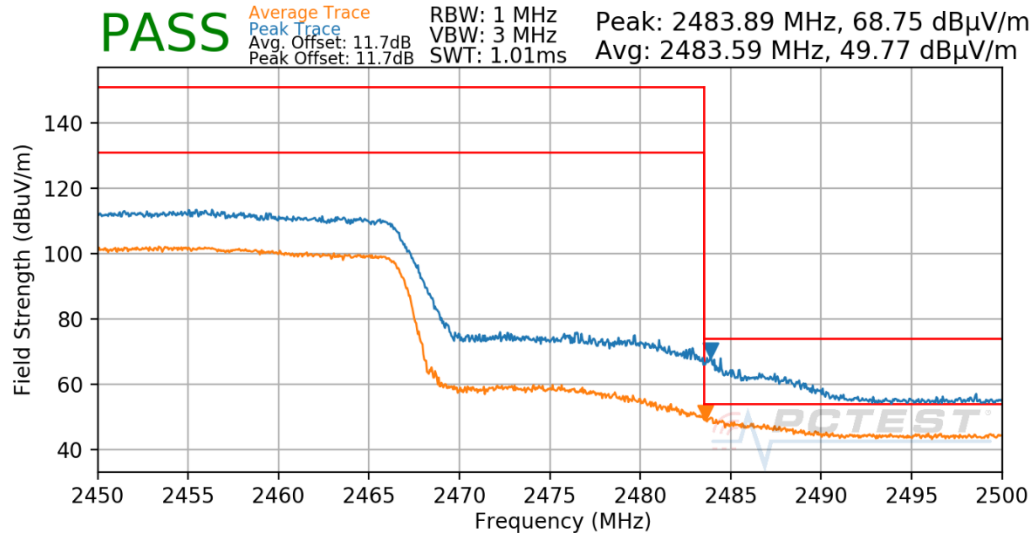
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-169. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

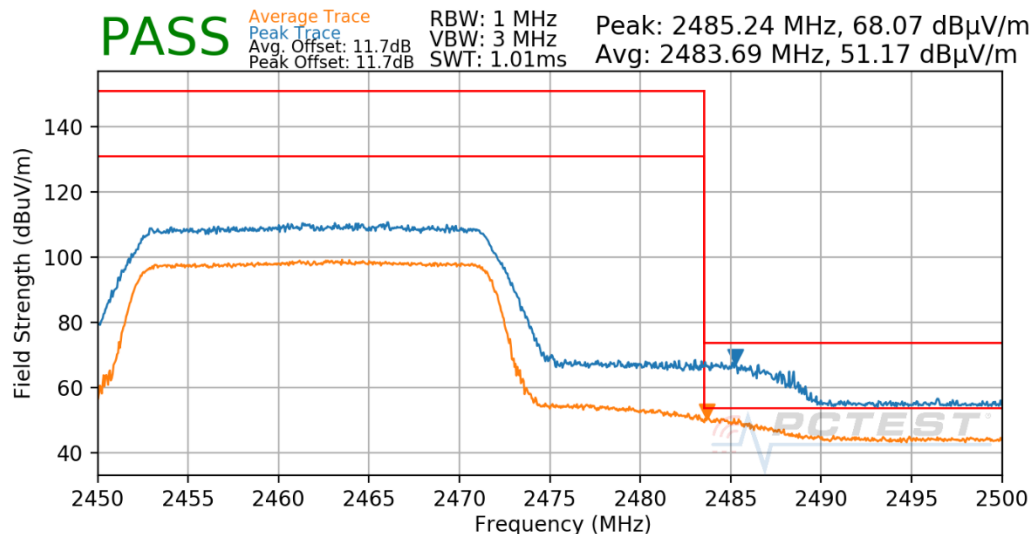
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 131 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-170. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

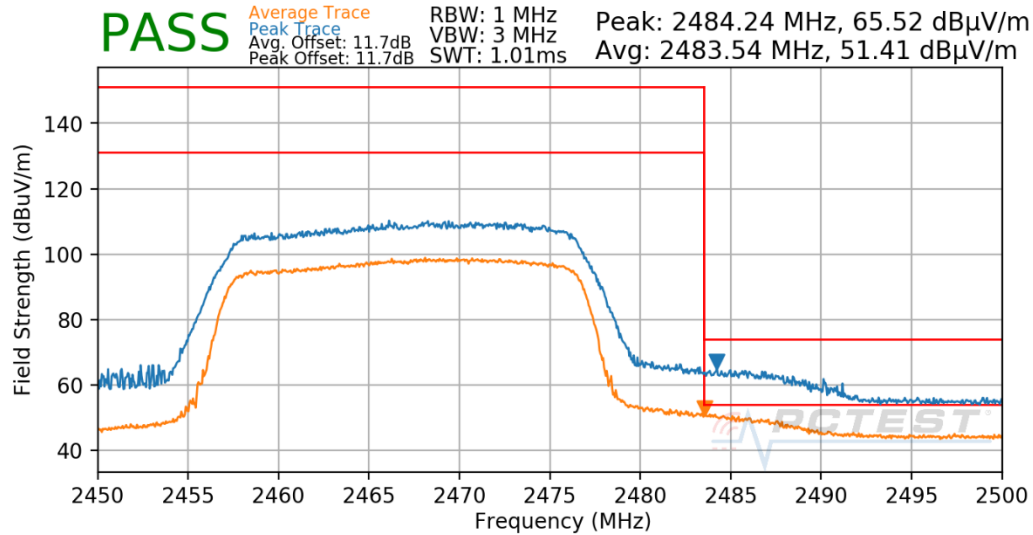
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-171. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 132 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-172. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

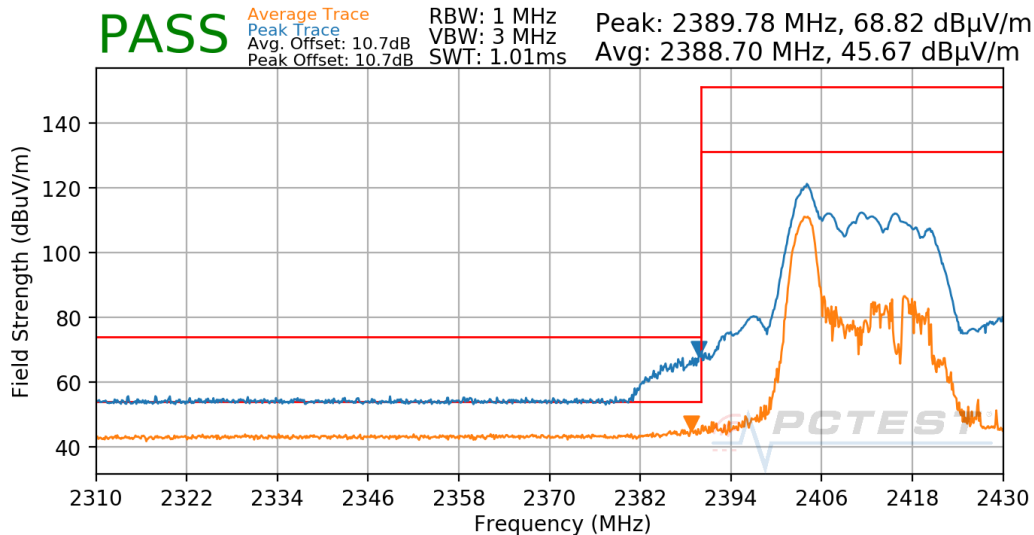
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 133 of 153

7.7.6 CDD Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

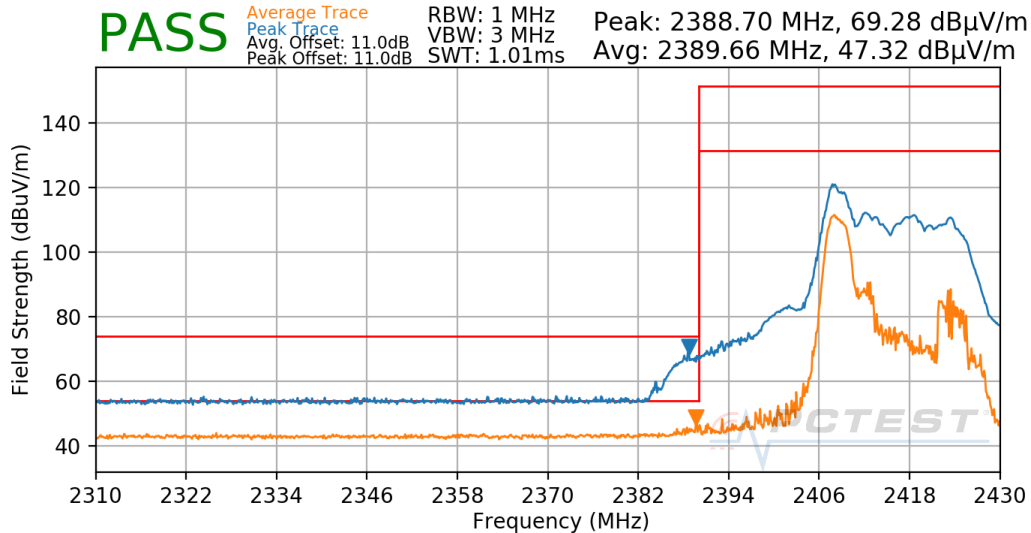
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-173. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

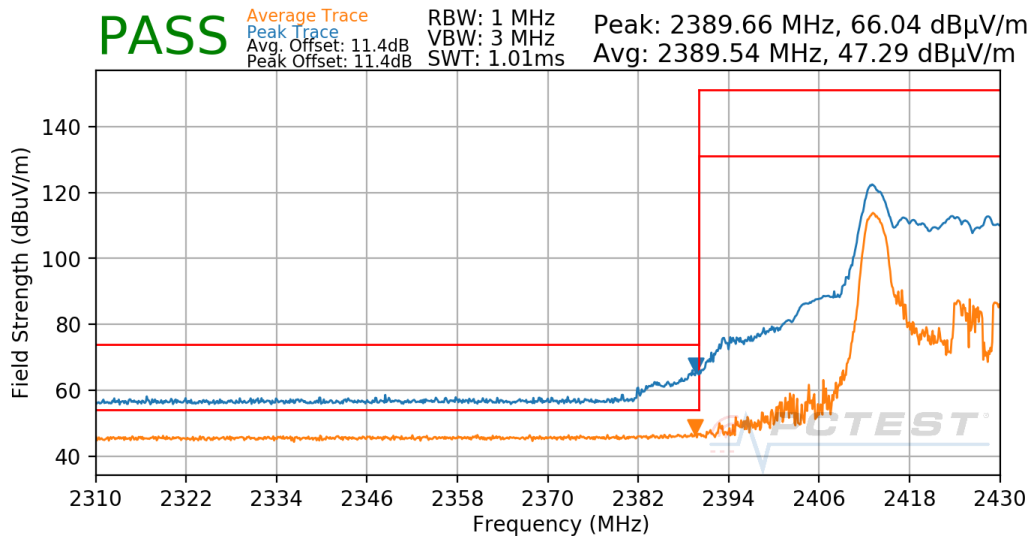
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 134 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-174. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

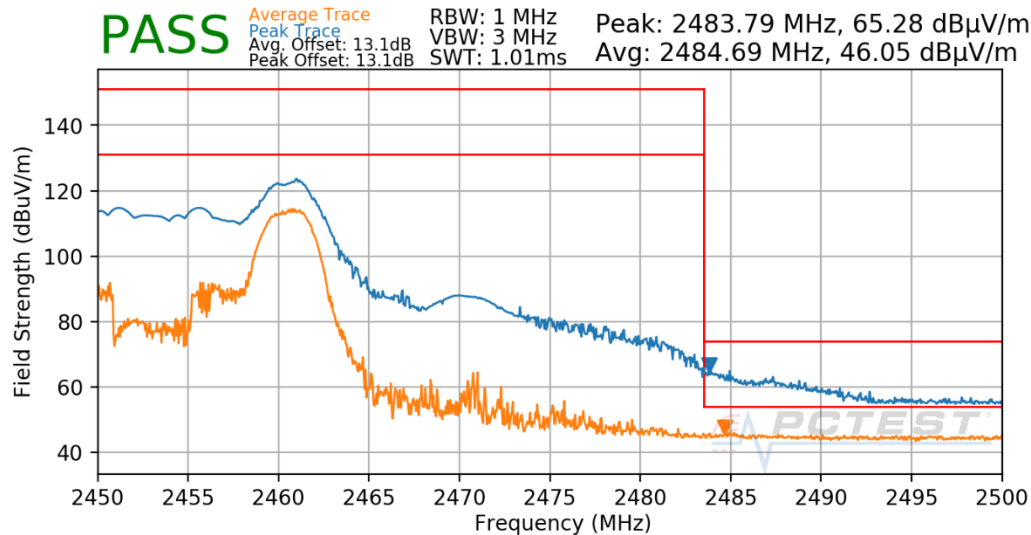
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-175. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

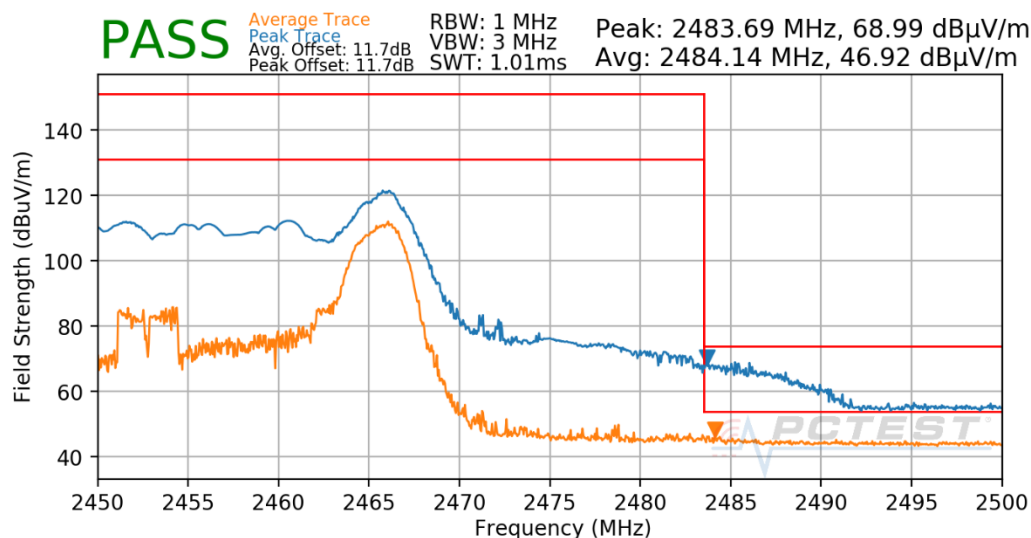
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 135 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-176. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

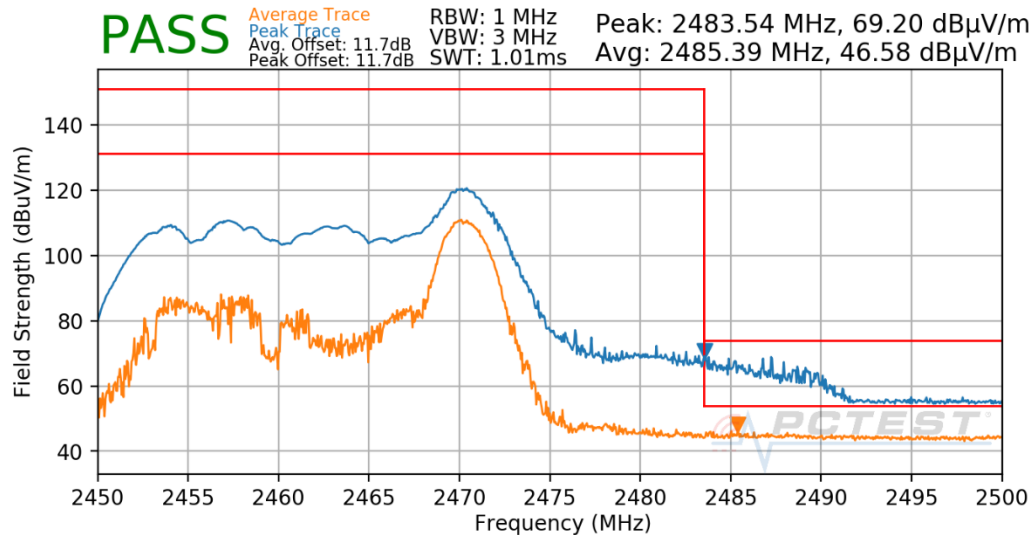
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-177. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

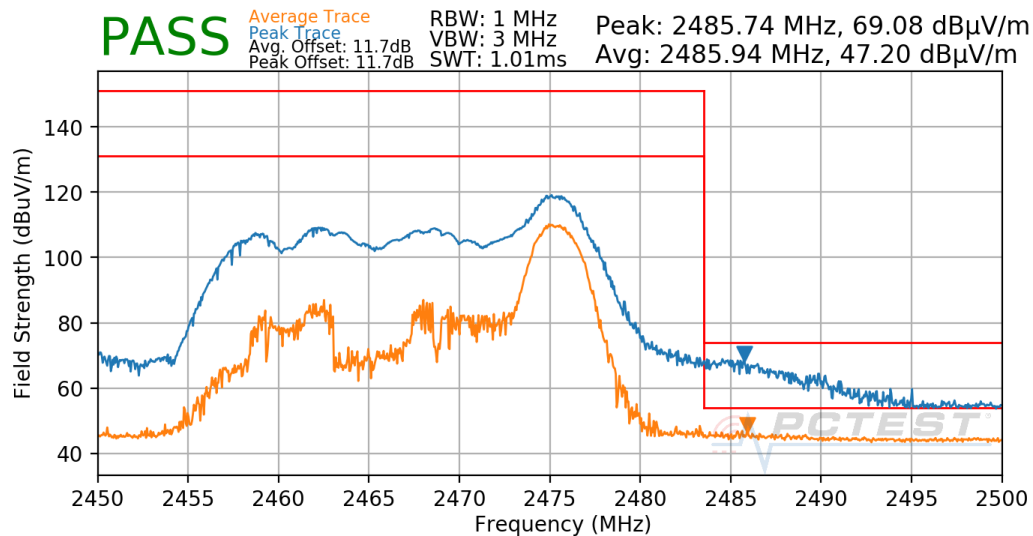
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 136 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-178. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

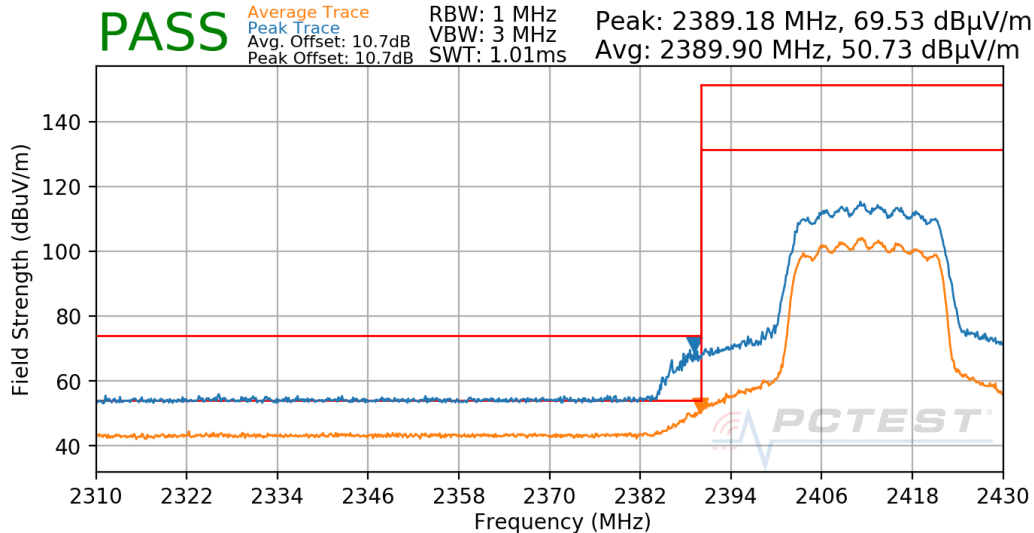
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-179. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

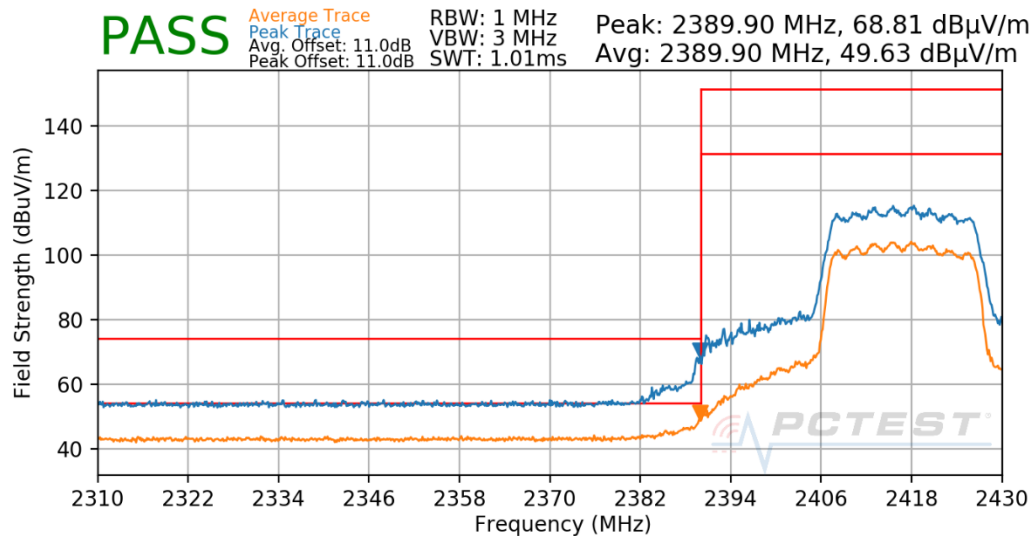
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 137 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-180. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

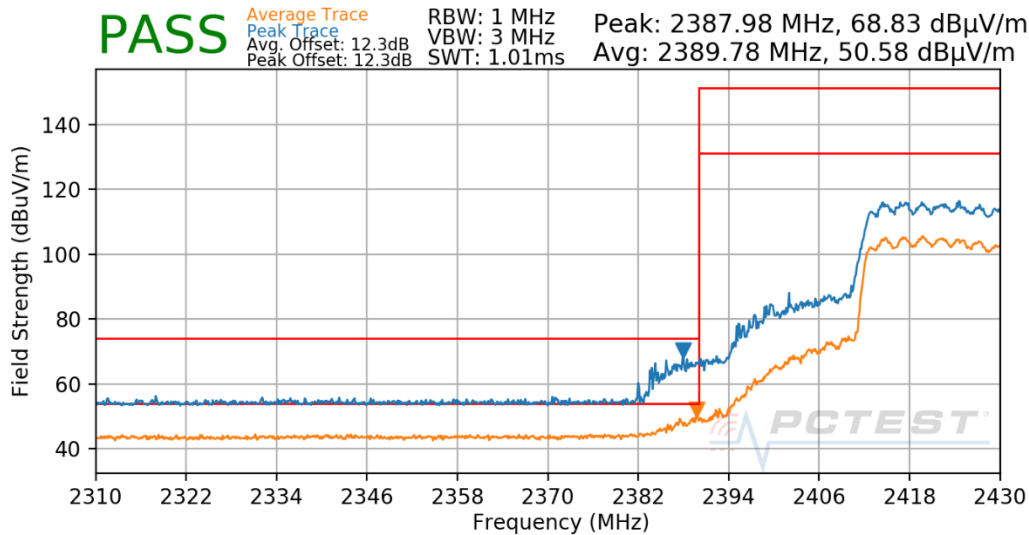
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-181. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

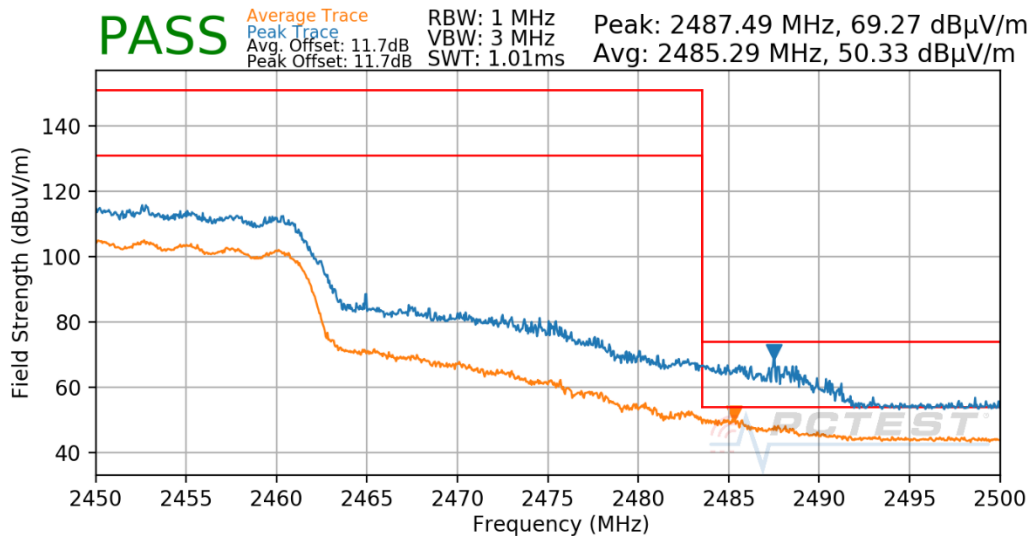
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 138 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-182. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

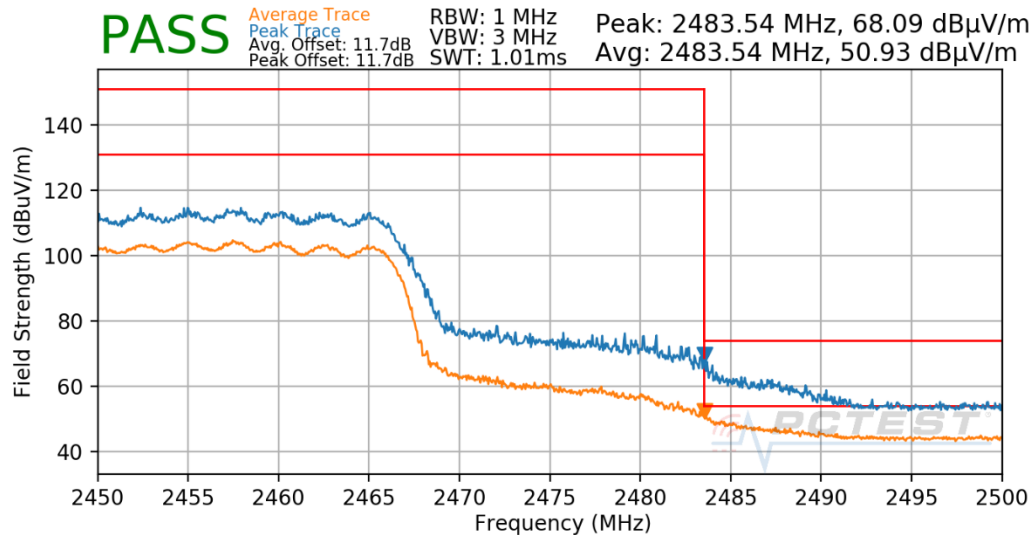
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-183. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

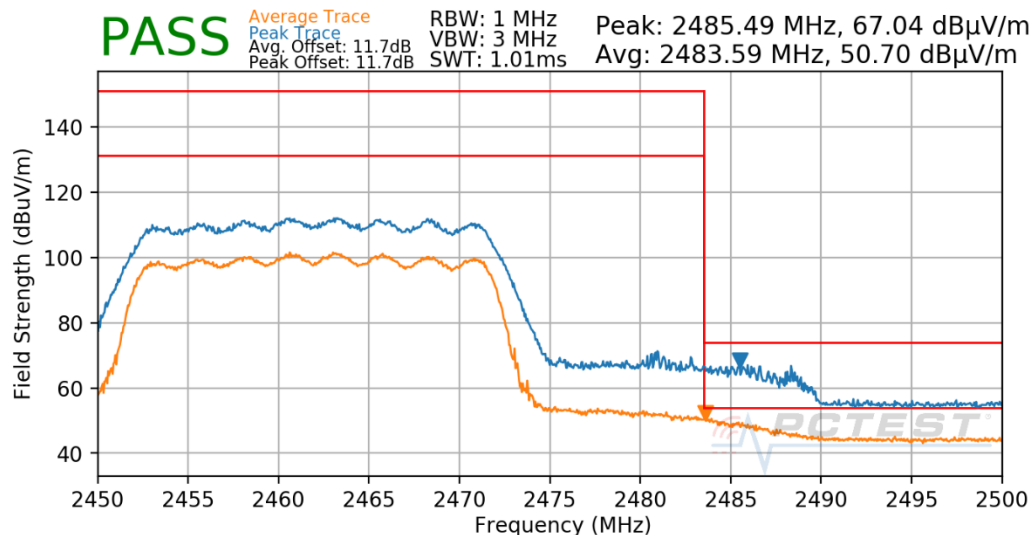
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 139 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-184. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

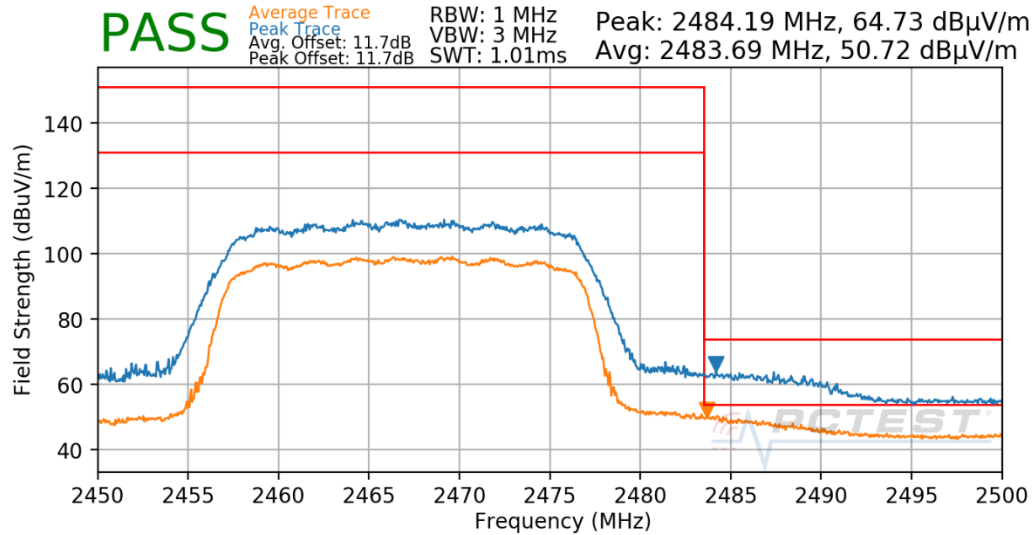
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 140 of 153

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-186. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 141 of 153

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
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

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Test Setup

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

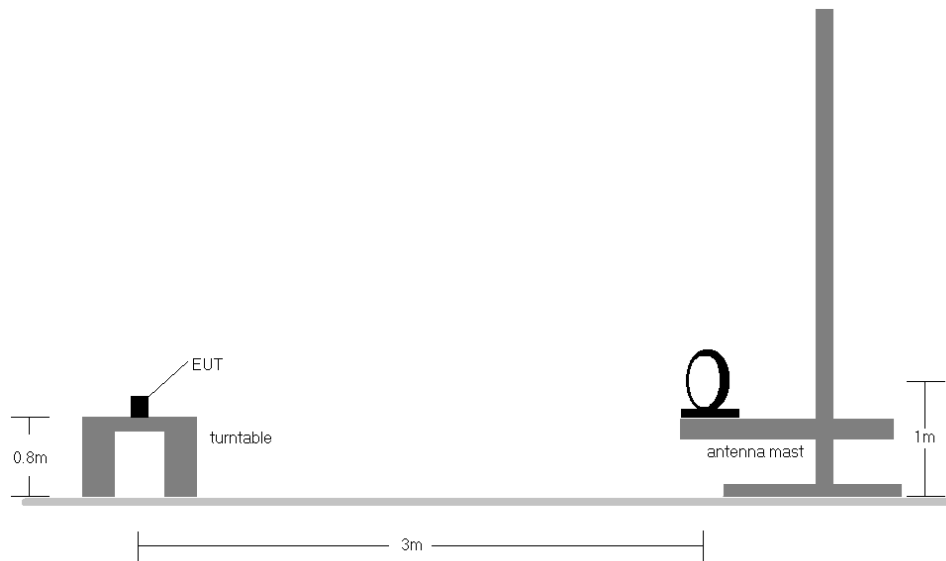


Figure 7-7. Radiated Test Setup < 30Mhz

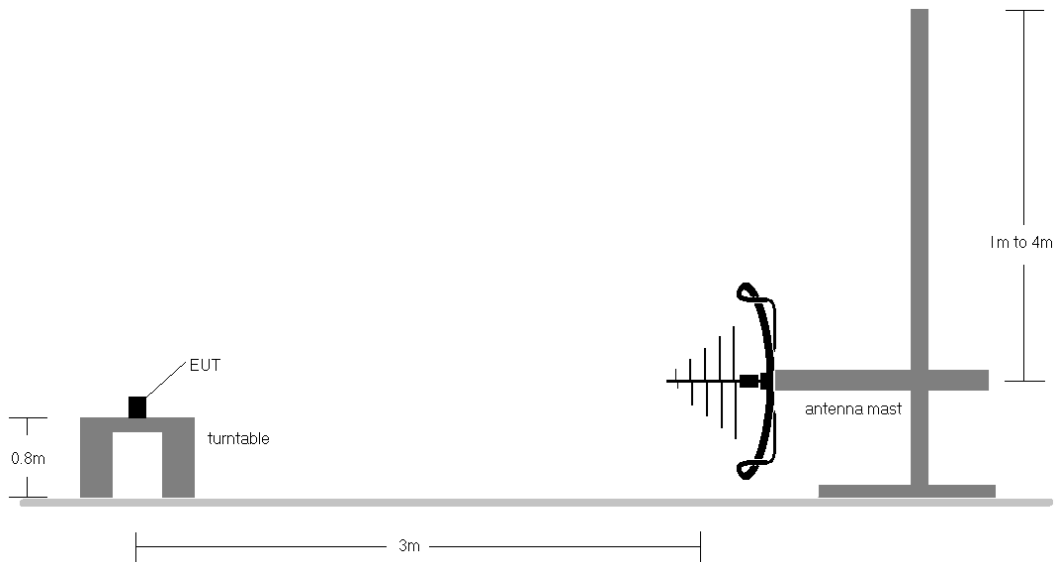


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST 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.
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. 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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
11. All antenna configurations and data rates were investigated and only the worst case are reported.
12. 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

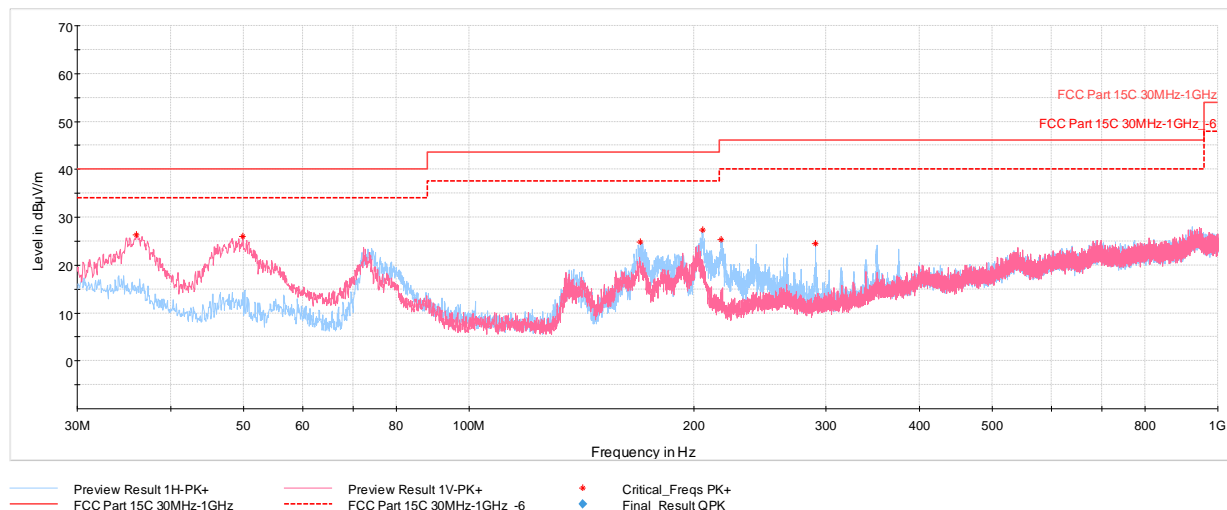
Determining Spurious Emissions Levels

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

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

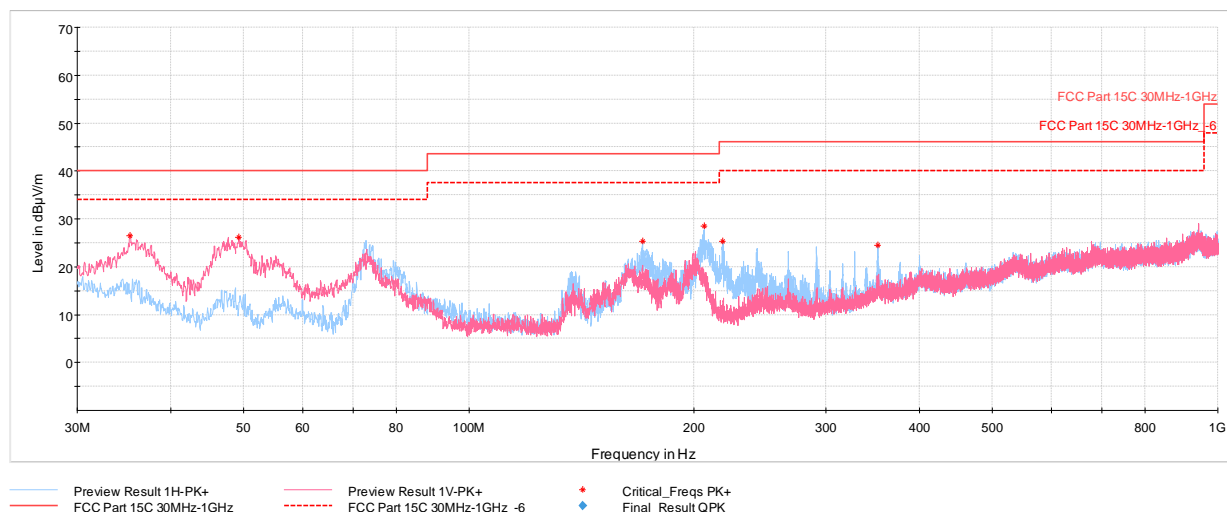


Plot 7-187. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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]
35.97	Peak	V	100	358	-65.99	-14.77	26.24	40.00	-13.76
49.89	Peak	V	100	59	-59.89	-21.05	26.06	40.00	-13.94
169.34	Peak	H	100	261	-64.71	-17.48	24.81	43.52	-18.71
205.23	Peak	H	100	103	-63.03	-16.65	27.32	43.52	-16.20
217.31	Peak	H	100	253	-65.19	-16.56	25.25	46.02	-20.77
290.45	Peak	H	100	302	-67.57	-14.89	24.54	46.02	-21.48

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 145 of 153



Plot 7-188. 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]
35.29	Peak	V	100	301	-66.08	-14.44	26.48	40.00	-13.52
49.30	Peak	V	100	328	-59.84	-20.93	26.23	40.00	-13.77
170.55	Peak	H	100	266	-64.24	-17.42	25.34	43.52	-18.18
206.25	Peak	H	100	266	-61.96	-16.56	28.48	43.52	-15.04
218.47	Peak	H	100	289	-65.10	-16.55	25.35	46.02	-20.67
351.85	Peak	H	100	339	-71.20	-11.34	24.46	46.02	-21.56

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST 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)	
	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

*Decreases with the logarithm of the frequency.

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
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.

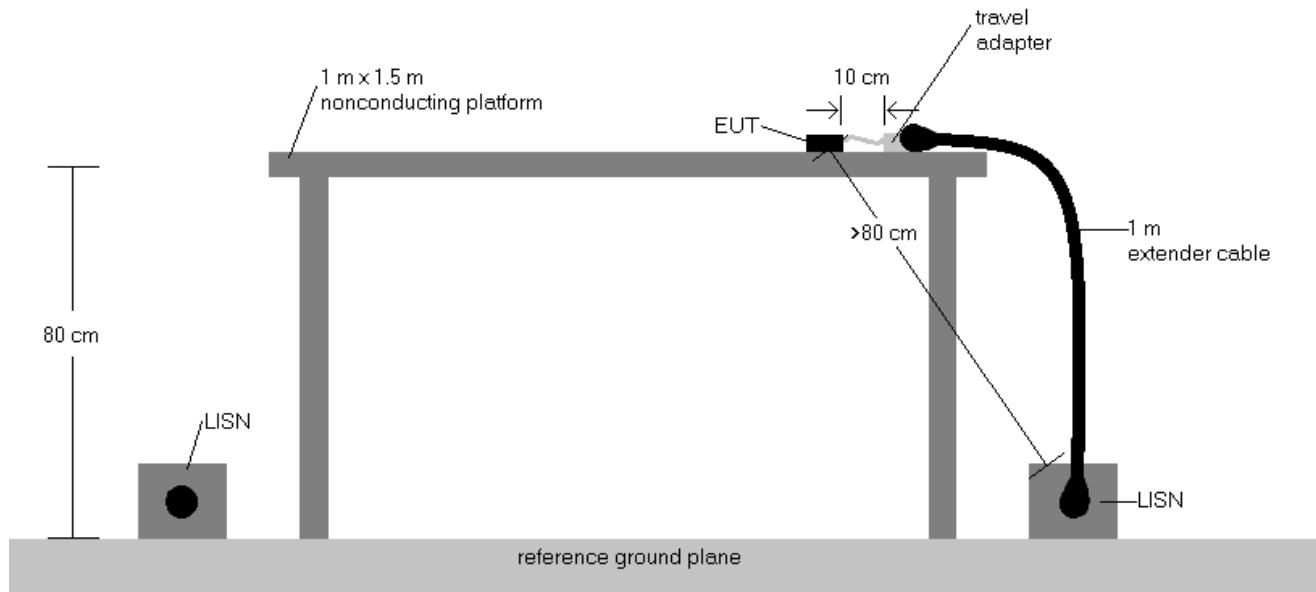
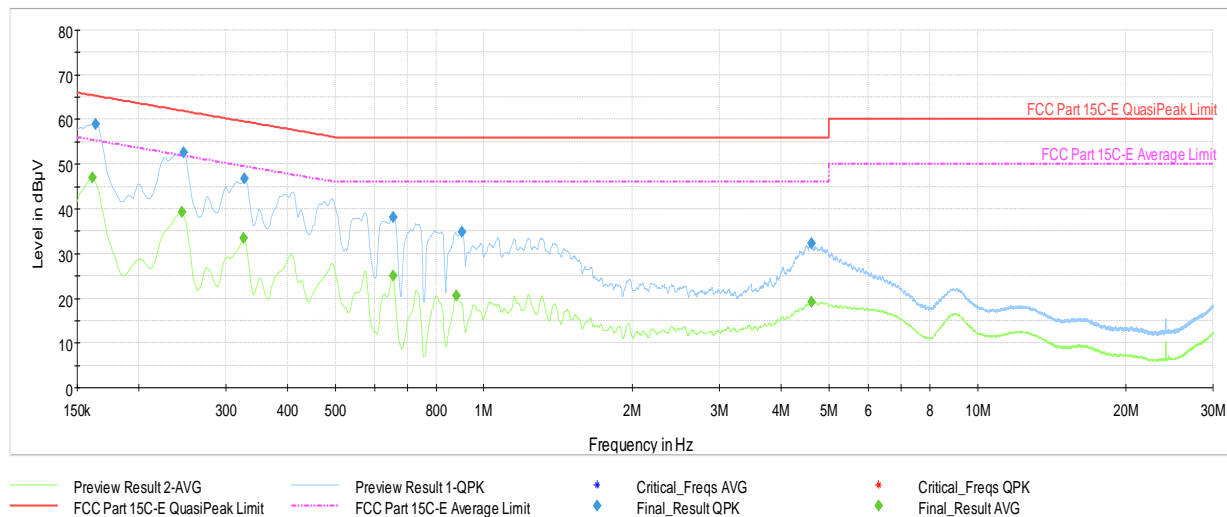


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi peak and average detectors.
- Deviations to the Specifications: None.
- All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

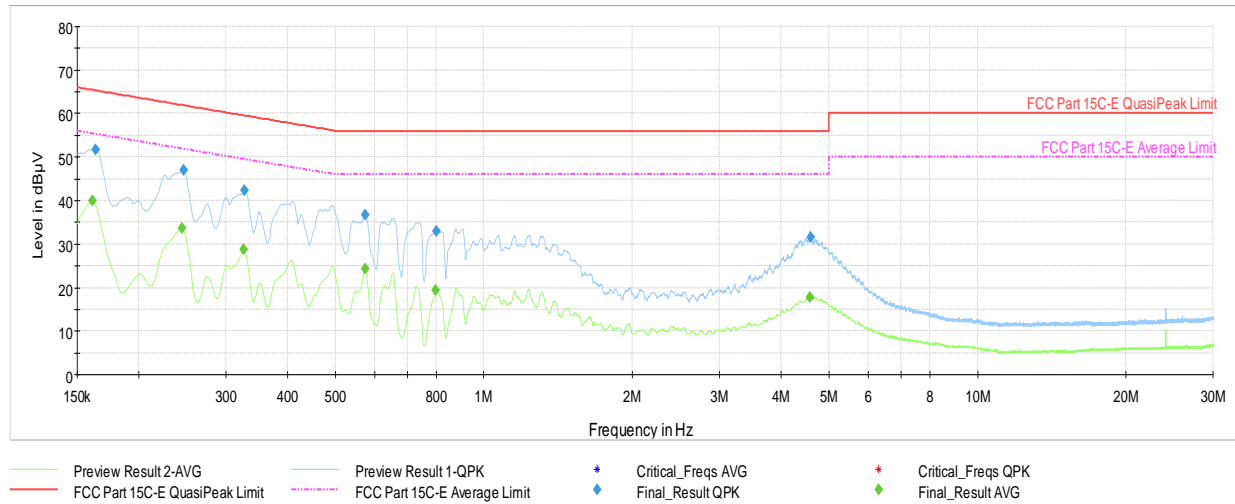
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	—	47.12	55.40	-8.28	L1	GND
0.164	FINAL	58.9	—	65.28	-6.41	L1	GND
0.245	FINAL	—	39.34	51.94	-12.60	L1	GND
0.247	FINAL	52.7	—	61.87	-9.17	L1	GND
0.326	FINAL	—	33.43	49.57	-16.14	L1	GND
0.328	FINAL	46.9	—	59.51	-12.64	L1	GND
0.654	FINAL	—	24.92	46.00	-21.08	L1	GND
0.654	FINAL	38.2	—	56.00	-17.80	L1	GND
0.879	FINAL	—	20.56	46.00	-25.44	L1	GND
0.902	FINAL	34.9	—	56.00	-21.07	L1	GND
4.603	FINAL	32.3	—	56.00	-23.74	L1	GND
4.603	FINAL	—	19.27	46.00	-26.73	L1	GND

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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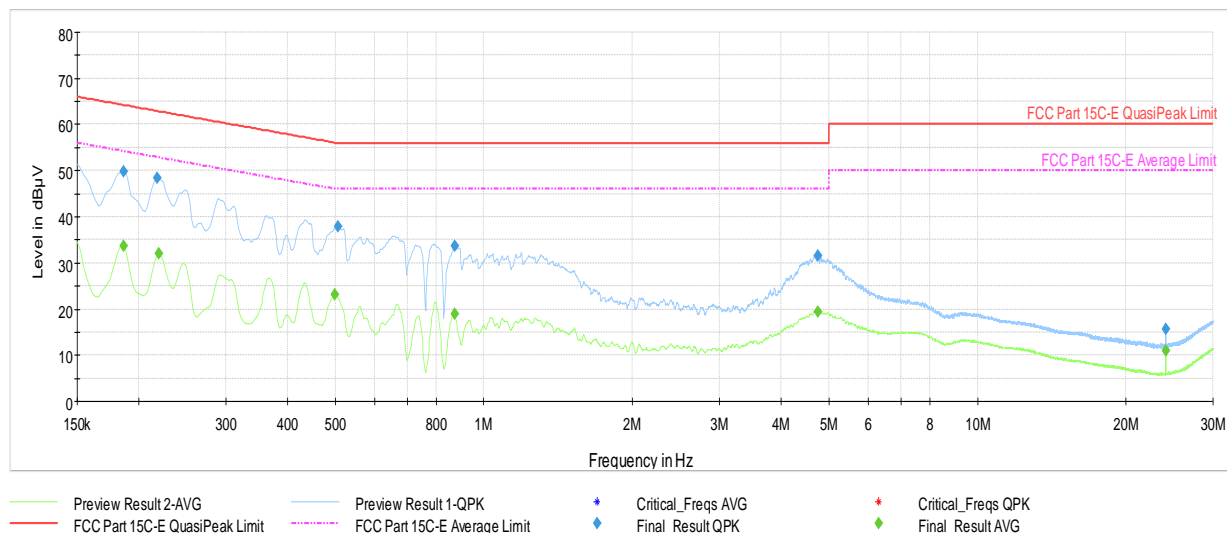


Plot 7-190. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	—	39.96	55.40	-15.44	N	GND
0.164	FINAL	51.8	—	65.28	-13.49	N	GND
0.245	FINAL	—	33.78	51.94	-18.16	N	GND
0.247	FINAL	47.0	—	61.87	-14.84	N	GND
0.326	FINAL	—	28.84	49.57	-20.73	N	GND
0.328	FINAL	42.3	—	59.51	-17.24	N	GND
0.575	FINAL	—	24.43	46.00	-21.57	N	GND
0.575	FINAL	36.6	—	56.00	-19.36	N	GND
0.798	FINAL	—	19.51	46.00	-26.49	N	GND
0.803	FINAL	33.0	—	56.00	-22.99	N	GND
4.574	FINAL	—	17.89	46.00	-28.11	N	GND
4.585	FINAL	31.5	—	56.00	-24.49	N	GND

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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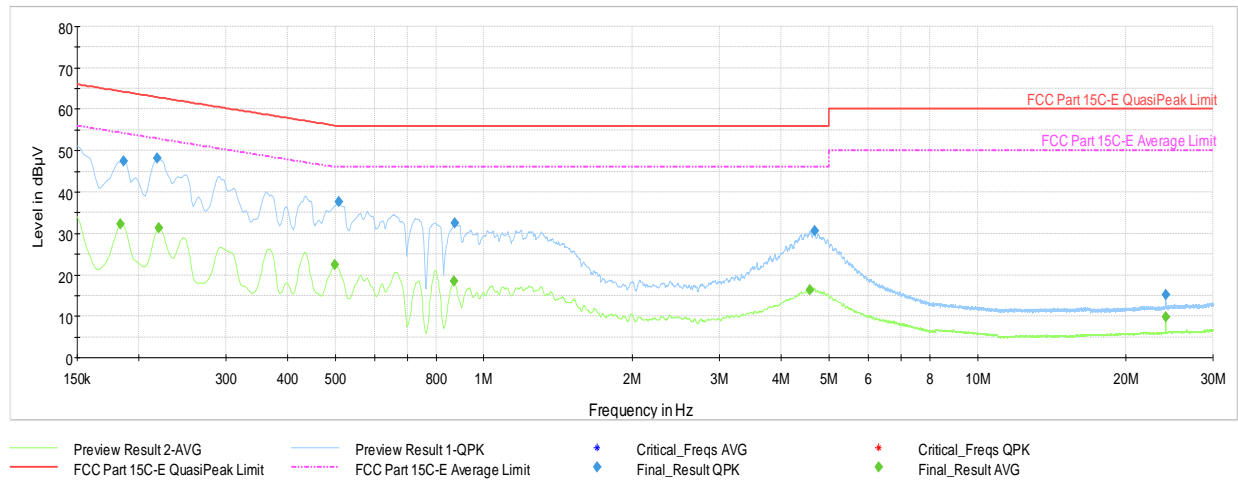


Plot 7-191. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	52.8	—	64.02	-11.26	L1	GND
0.191	FINAL	—	37.29	54.02	-16.73	L1	GND
0.254	FINAL	41.9	—	61.64	-19.75	L1	GND
0.256	FINAL	—	30.13	51.57	-21.44	L1	GND
0.627	FINAL	34.0	—	56.00	-21.99	L1	GND
0.629	FINAL	—	27.20	46.00	-18.80	L1	GND
1.253	FINAL	28.1	—	56.00	-27.86	L1	GND
1.255	FINAL	—	23.12	46.00	-22.88	L1	GND
9.575	FINAL	19.9	—	60.00	-40.06	L1	GND
9.699	FINAL	—	12.94	50.00	-37.06	L1	GND
21.923	FINAL	—	14.46	50.00	-35.54	L1	GND
22.220	FINAL	20.5	—	60.00	-39.49	L1	GND

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-192. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.191	FINAL	52.3	—	64.02	-11.69	N	GND
0.191	FINAL	—	36.33	54.02	-17.69	N	GND
0.254	FINAL	41.1	—	61.64	-20.52	N	GND
0.254	FINAL	—	29.51	51.64	-22.14	N	GND
0.562	FINAL	30.7	—	56.00	-25.35	N	GND
0.564	FINAL	—	23.48	46.00	-22.52	N	GND
1.318	FINAL	—	21.79	46.00	-24.21	N	GND
1.318	FINAL	26.2	—	56.00	-29.76	N	GND
9.362	FINAL	—	11.09	50.00	-38.91	N	GND
9.391	FINAL	19.0	—	60.00	-41.00	N	GND
24.493	FINAL	18.1	—	60.00	-41.89	N	GND
24.988	FINAL	—	12.66	50.00	-37.34	N	GND

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

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST 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: BCGA2379, IC: 579C-A2379** 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: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-10-R1.BCG	Test Dates: 12/15/2020 - 2/26/2021	EUT Type: Tablet Device	Page 153 of 153