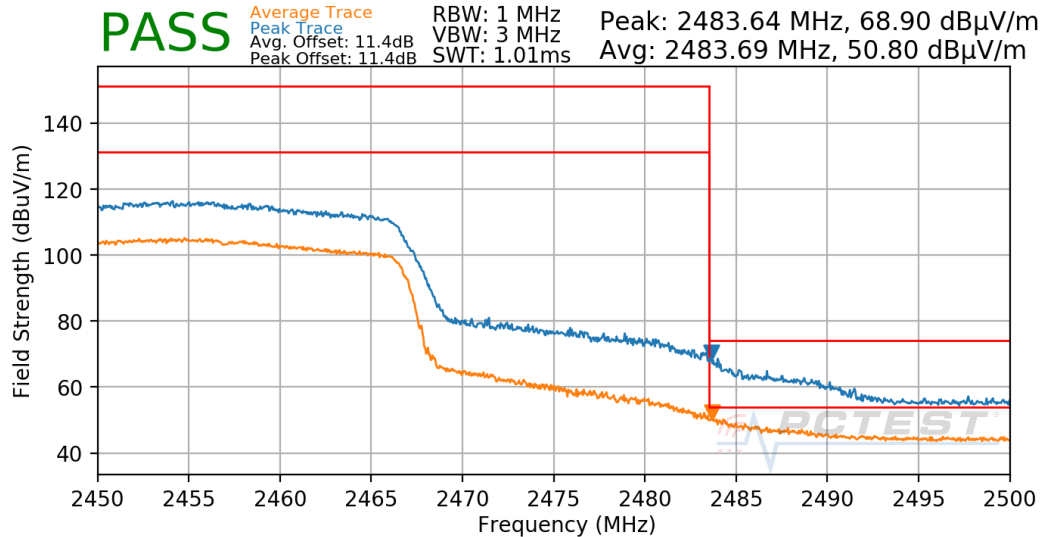
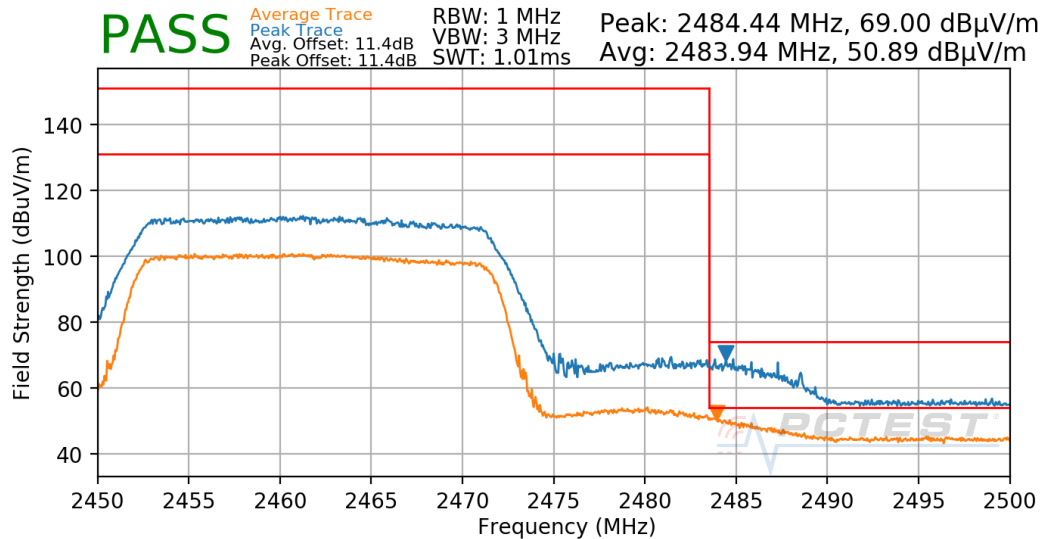


Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-162. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

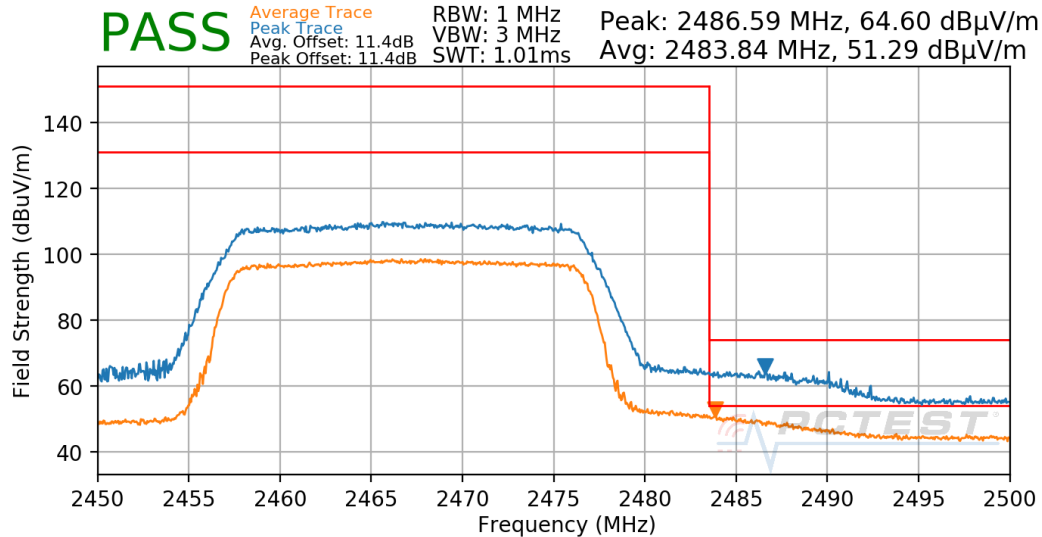
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-163. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 127 of 158

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 7-164. Radiated Restricted Upper Band Edge Measurement Antenna 4a (Peak & Average – RU242)

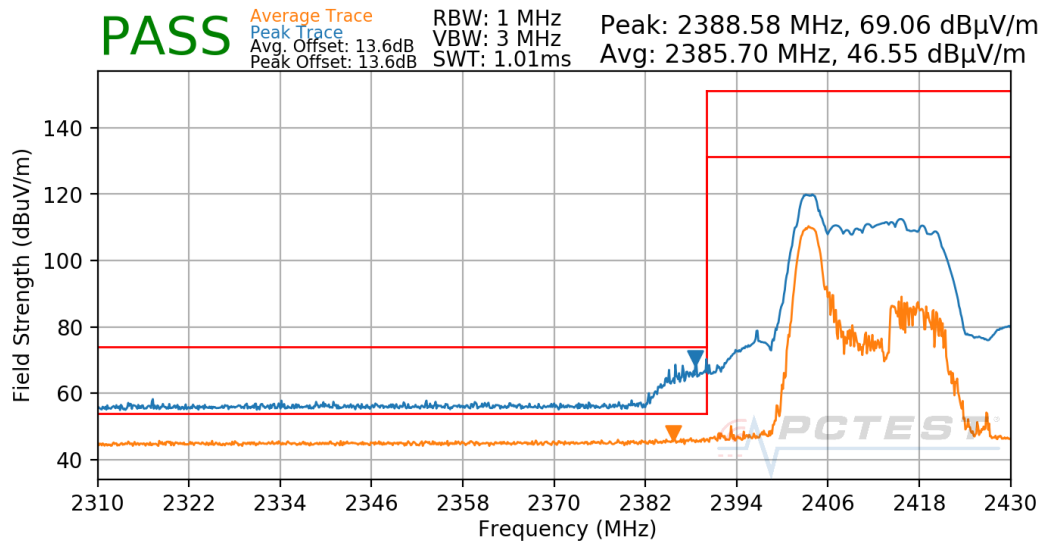
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 128 of 158

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.

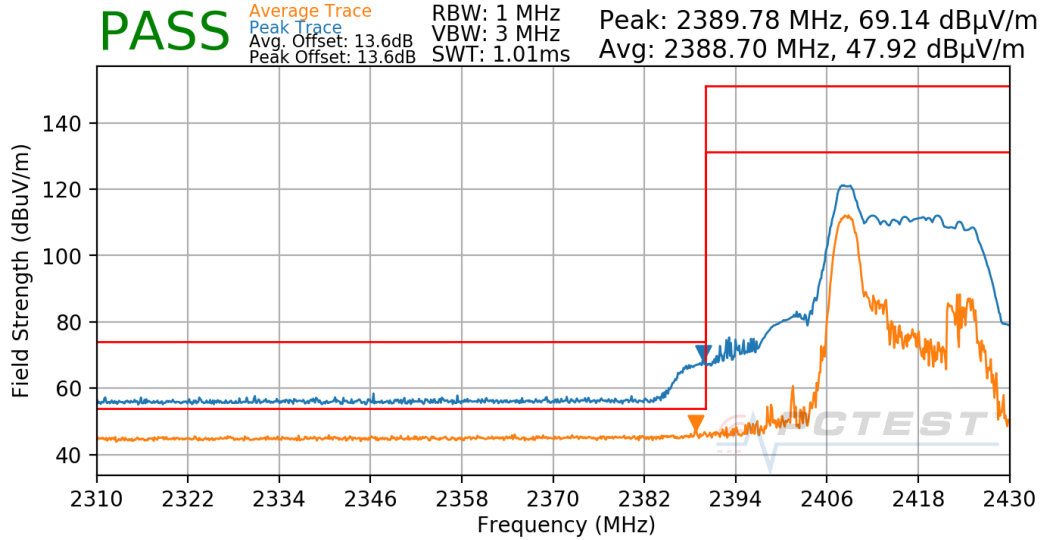
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



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

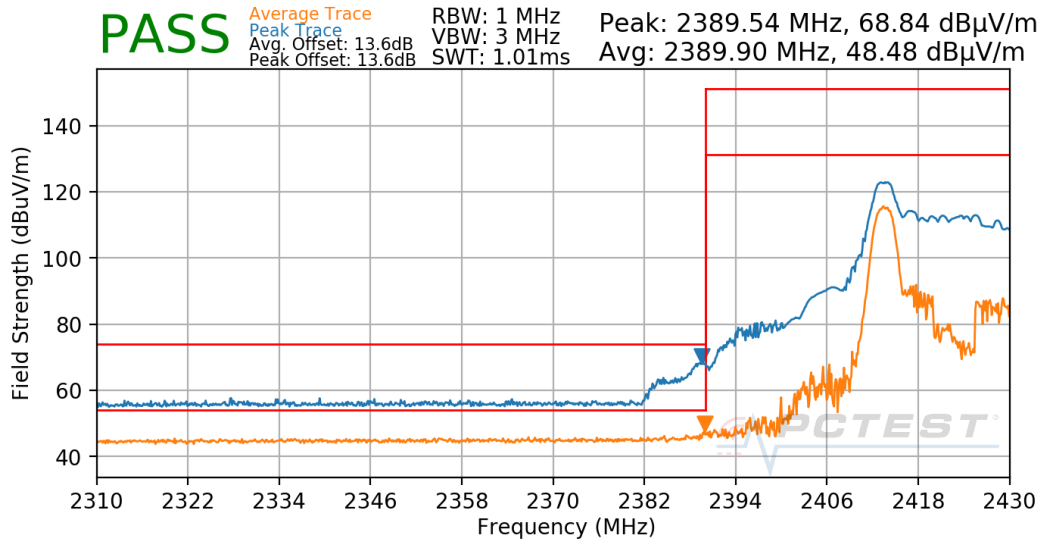
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 129 of 158

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 7-166. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

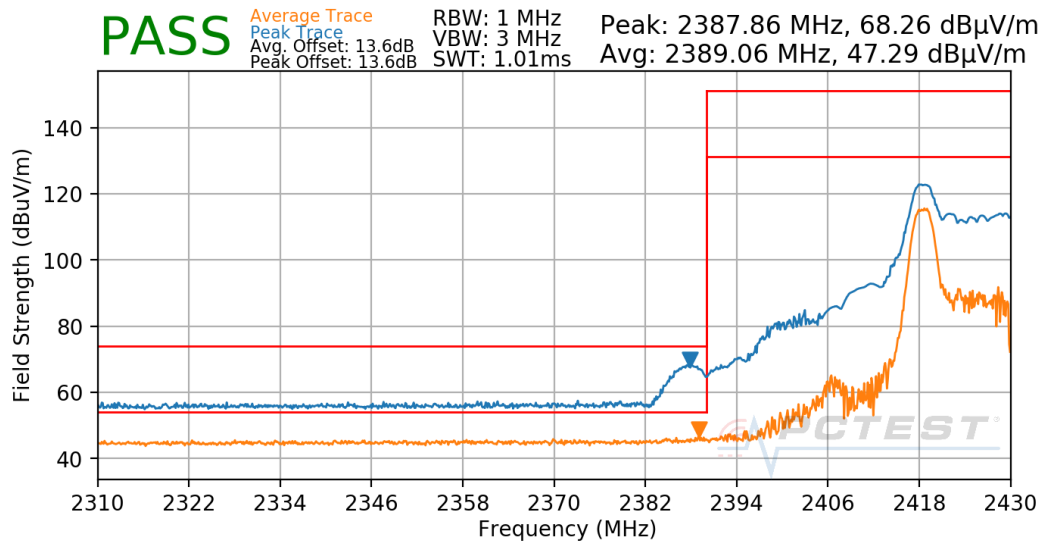
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-167. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

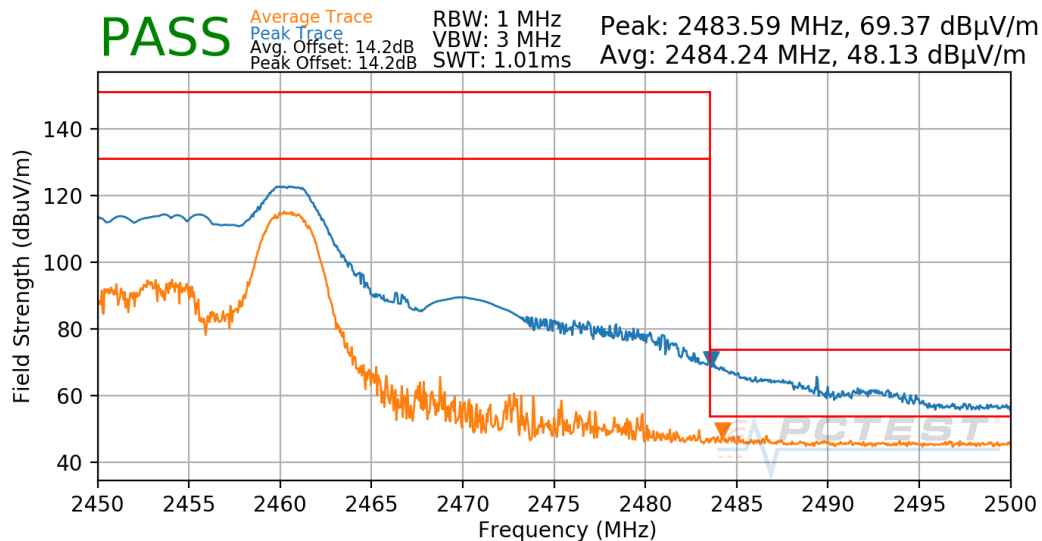
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 130 of 158

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2427MHz
Channel: 4



Plot 7-168. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

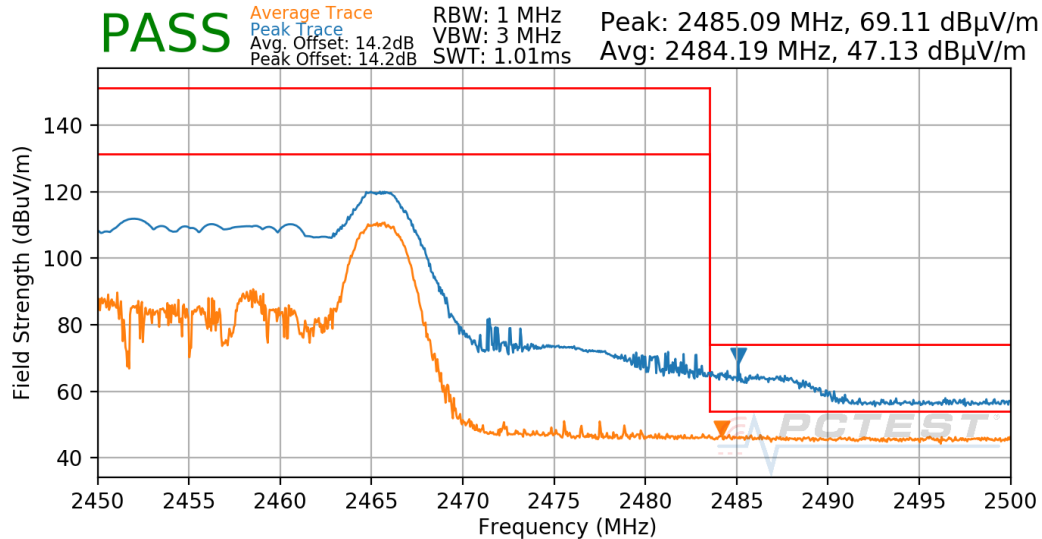
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-169. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

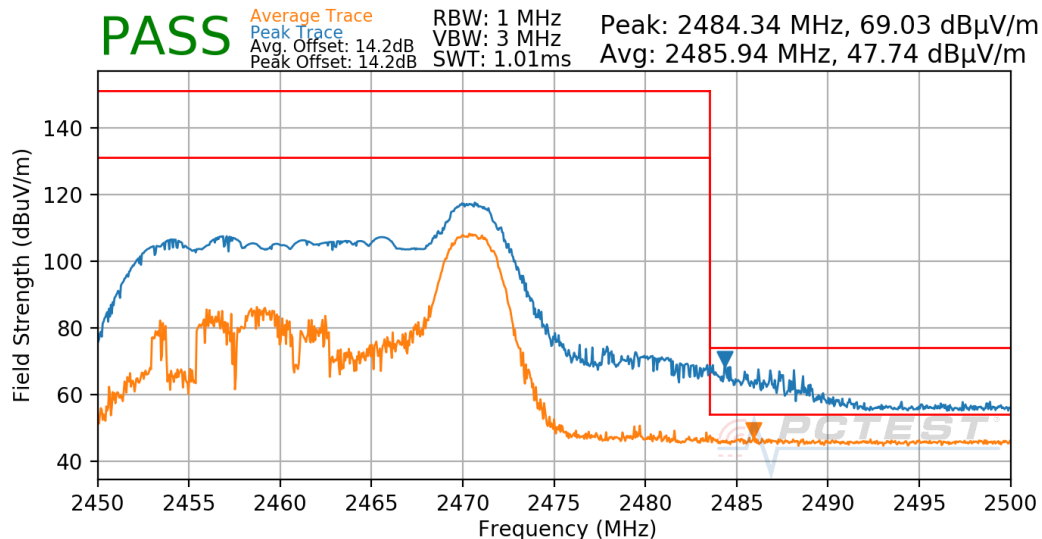
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 131 of 158

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 7-170. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

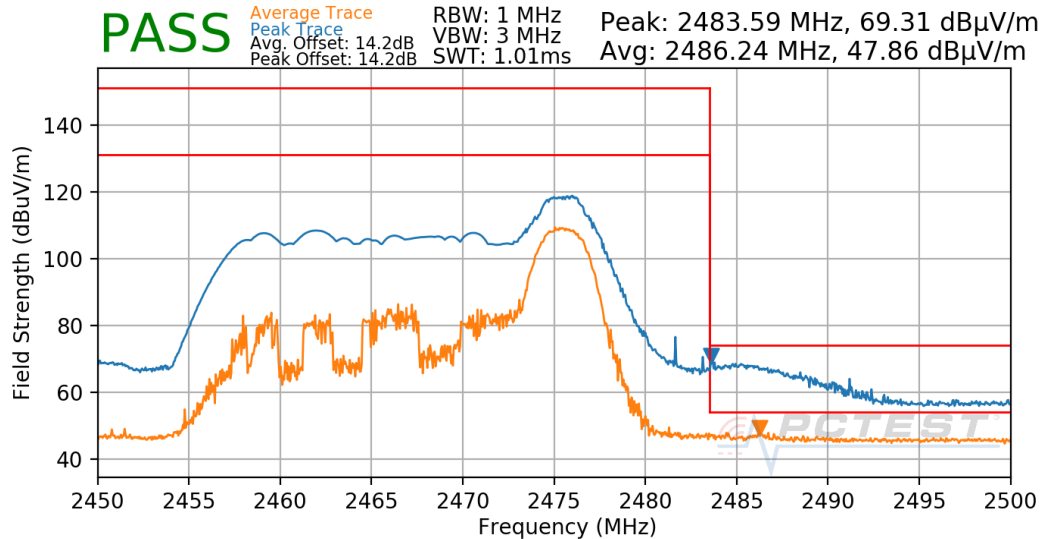
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-171. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

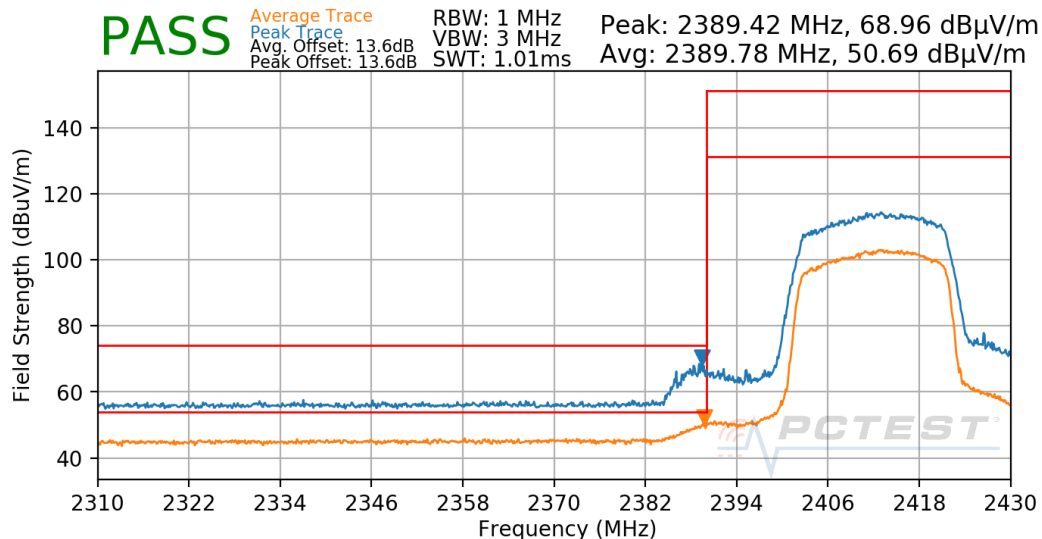
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 132 of 158

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 7-172. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

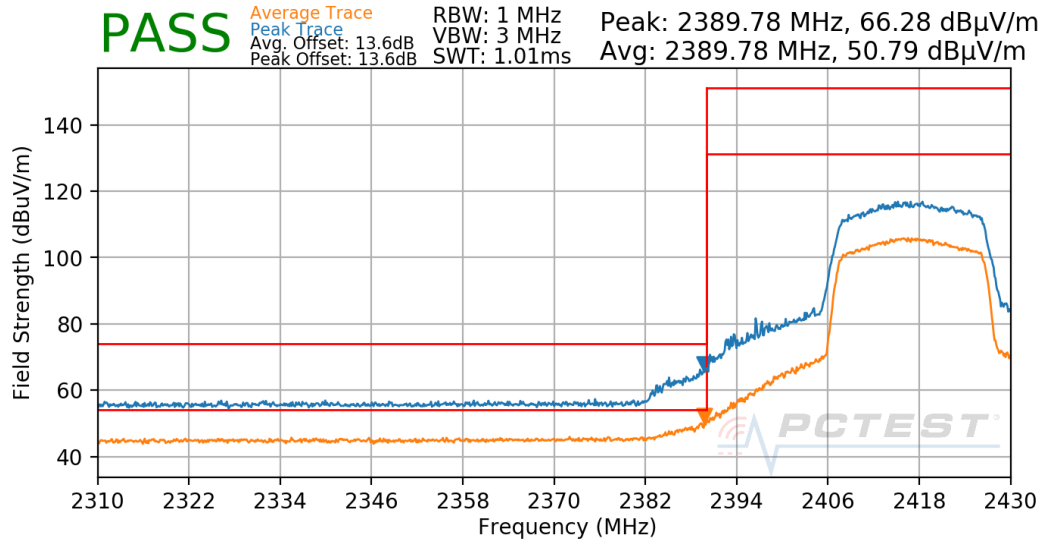
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-173. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

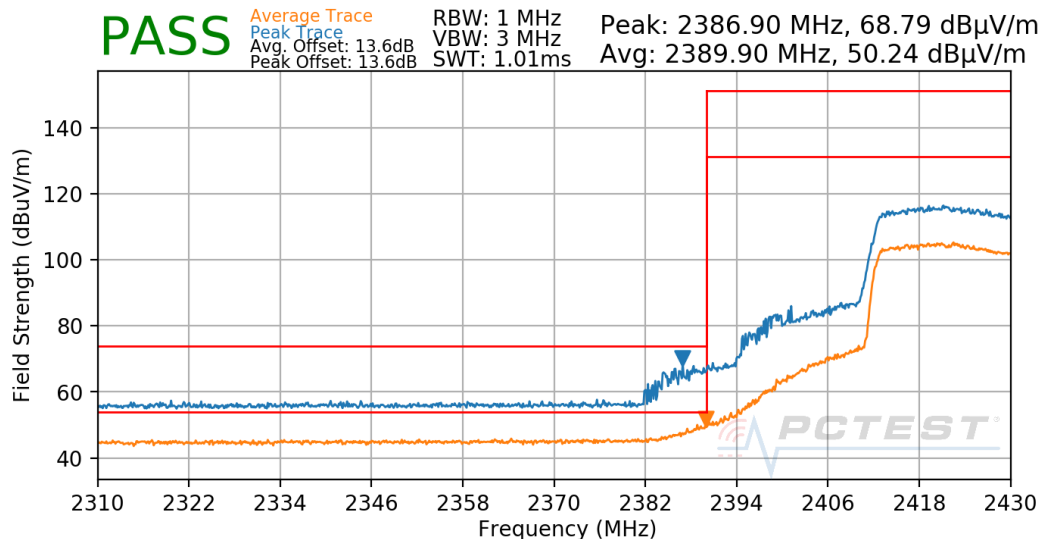
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 133 of 158

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 7-174. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

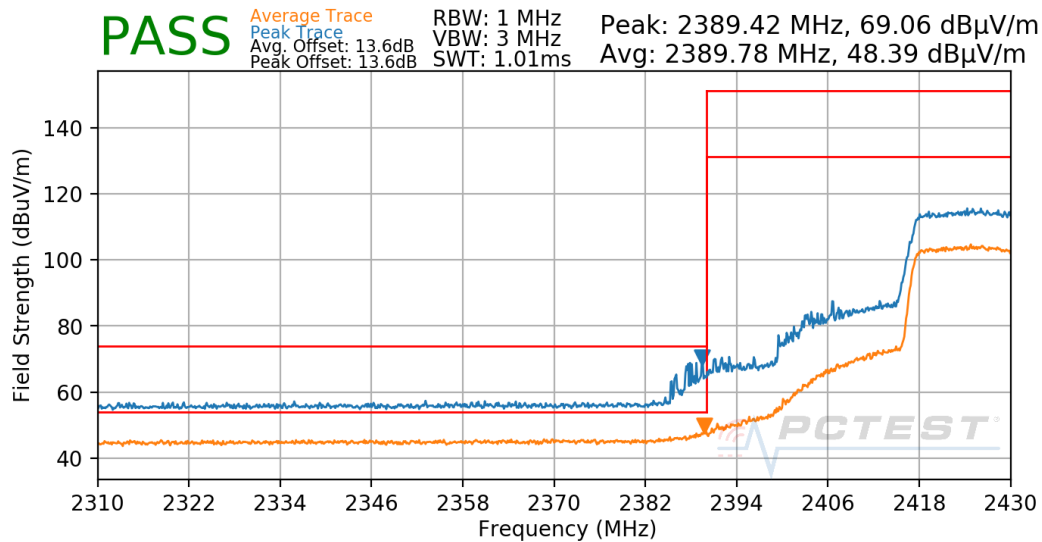
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-175. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

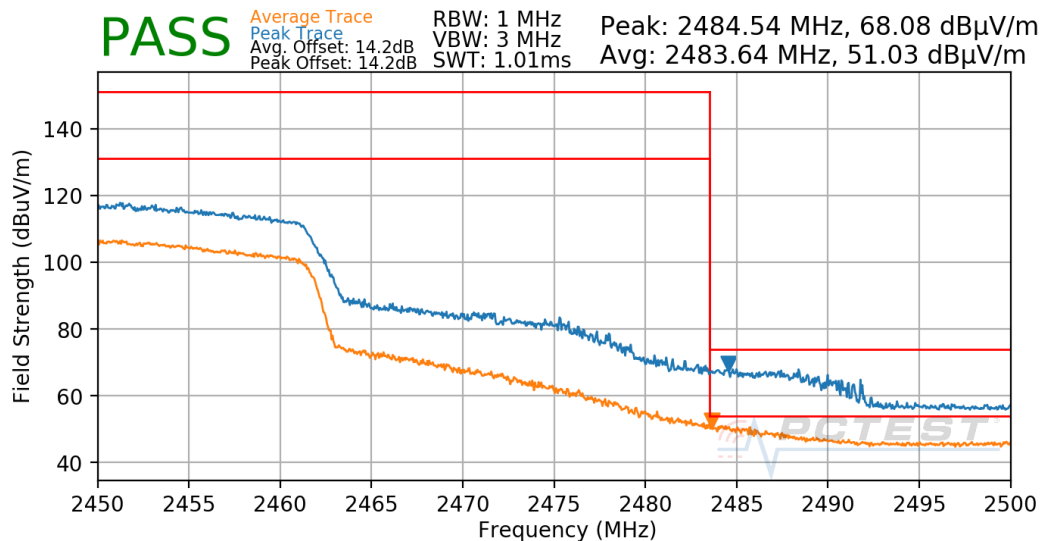
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 134 of 158

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2427MHz
Channel: 4



Plot 7-176. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

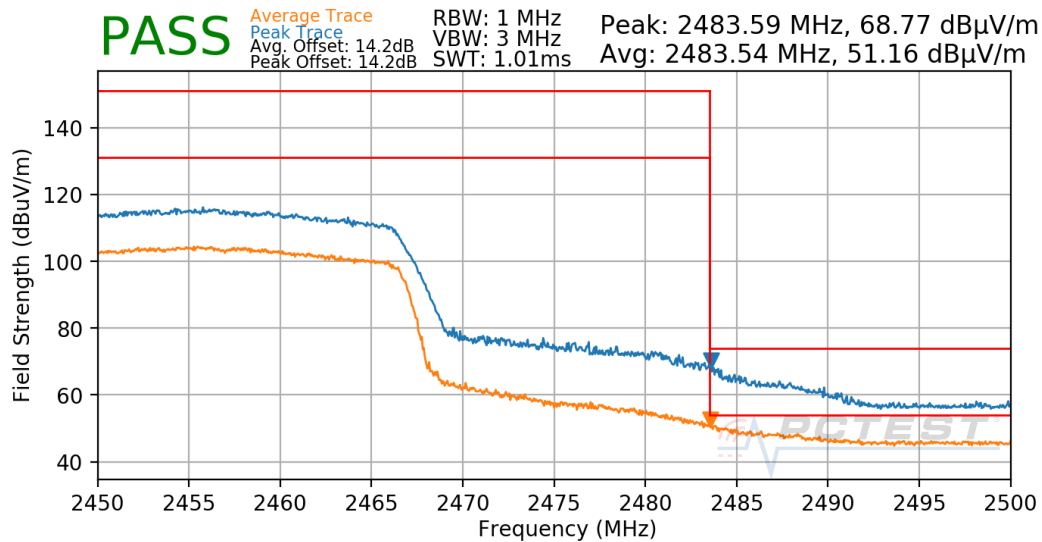
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-177. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

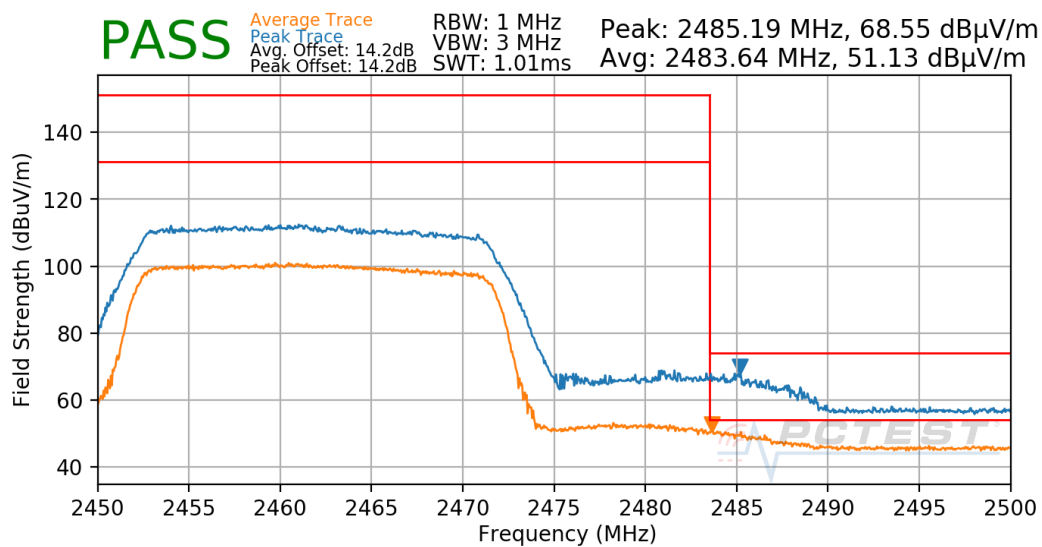
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 135 of 158

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 7-178. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

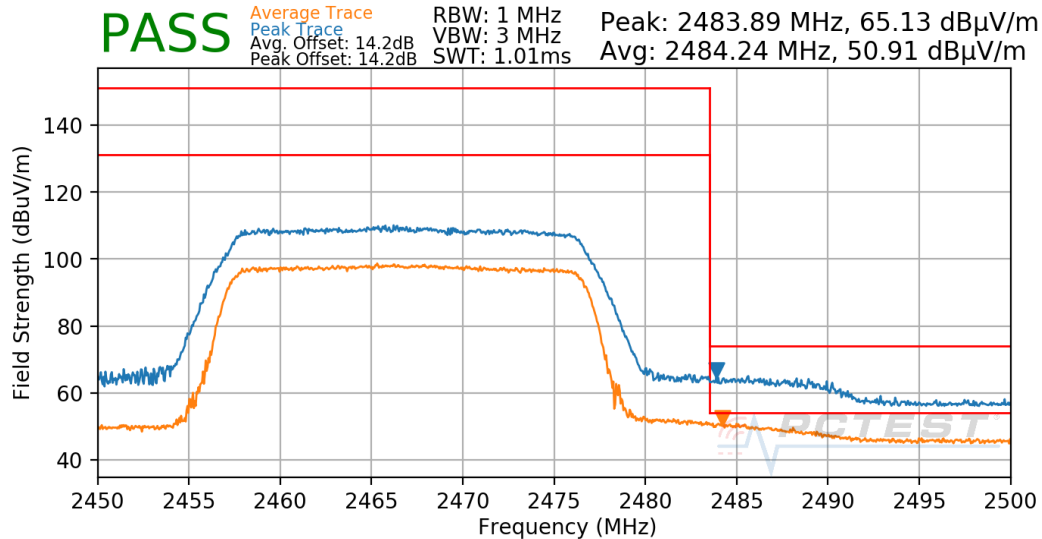
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-179. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 136 of 158

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 7-180. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

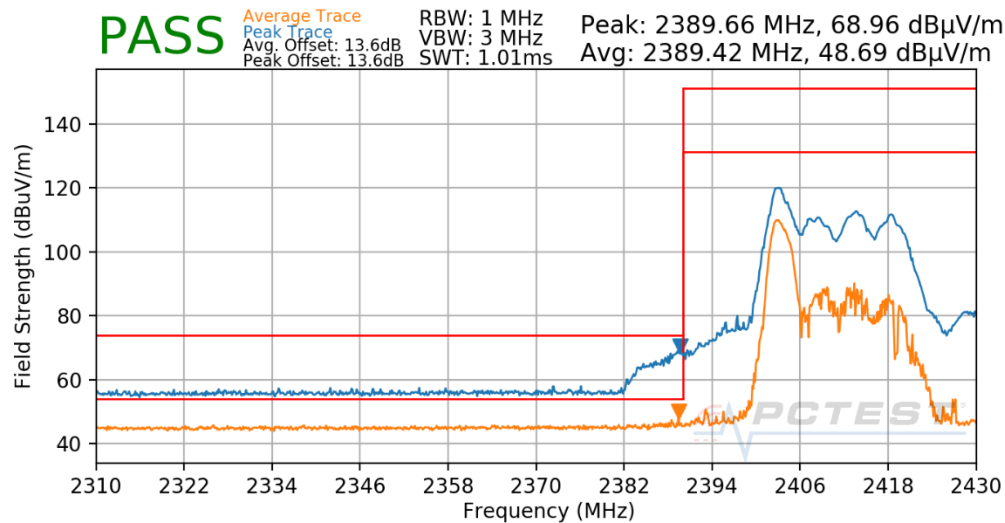
FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 137 of 158

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.

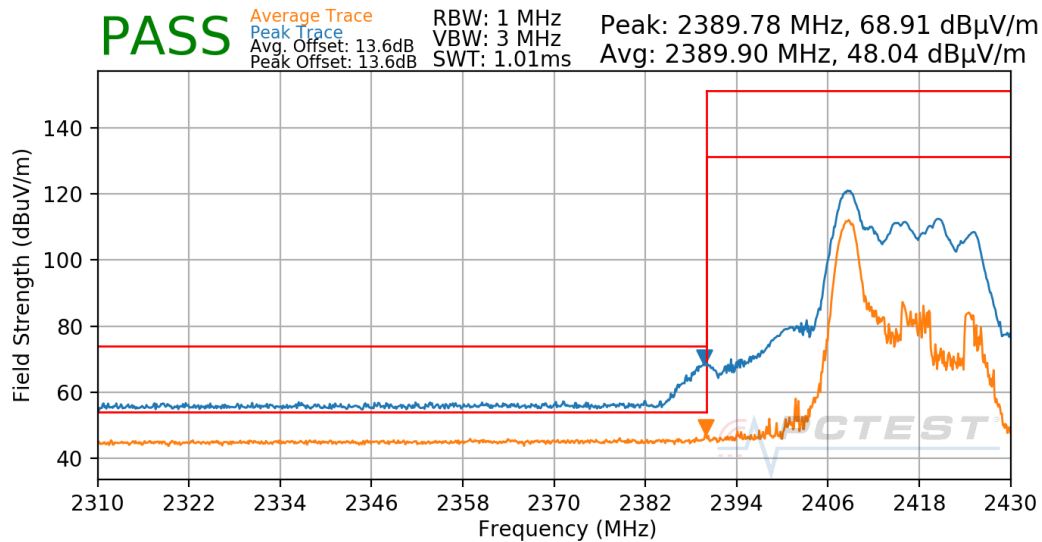
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS5
RU Index:	0
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 7-181. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

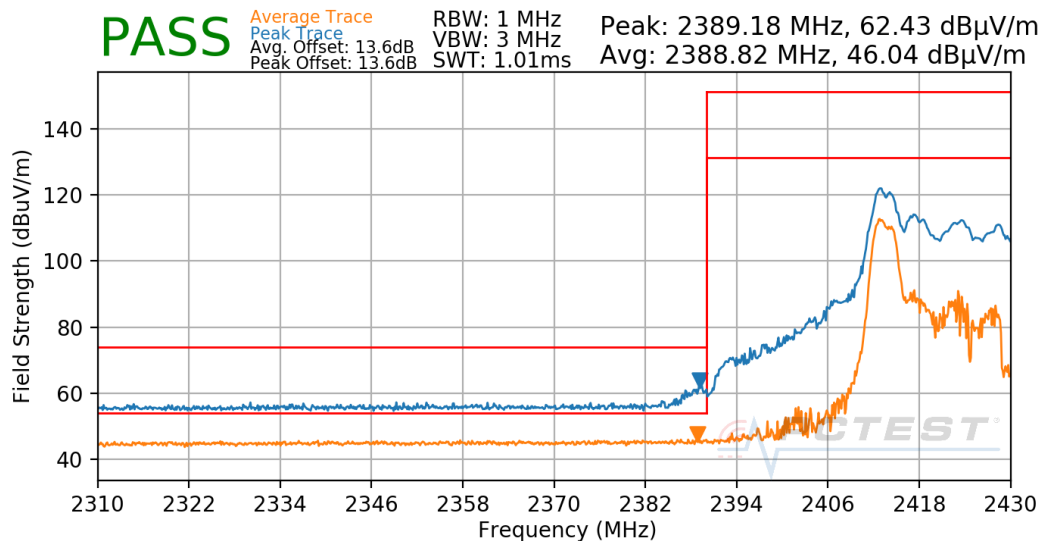
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 138 of 158

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 7-182. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

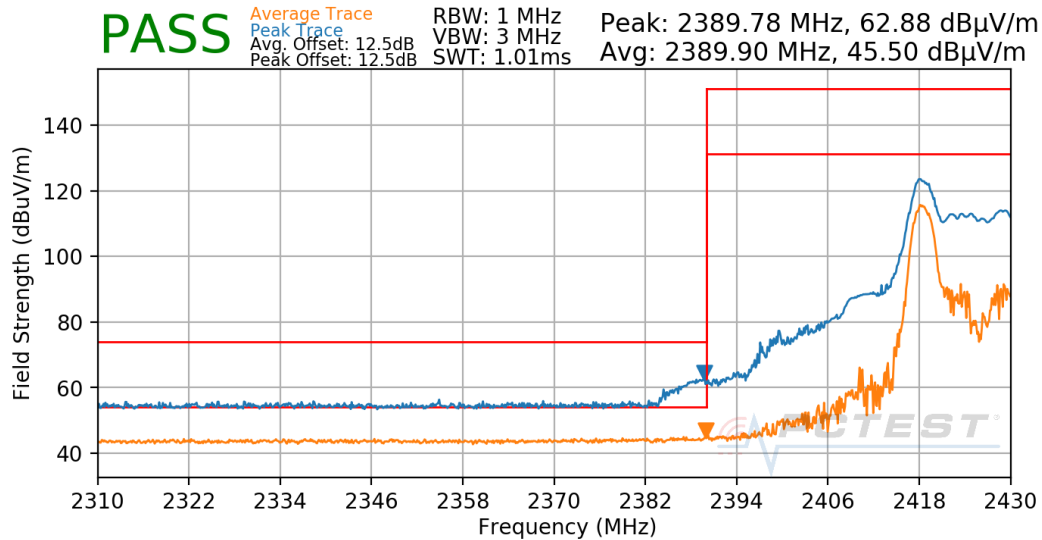
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-183. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

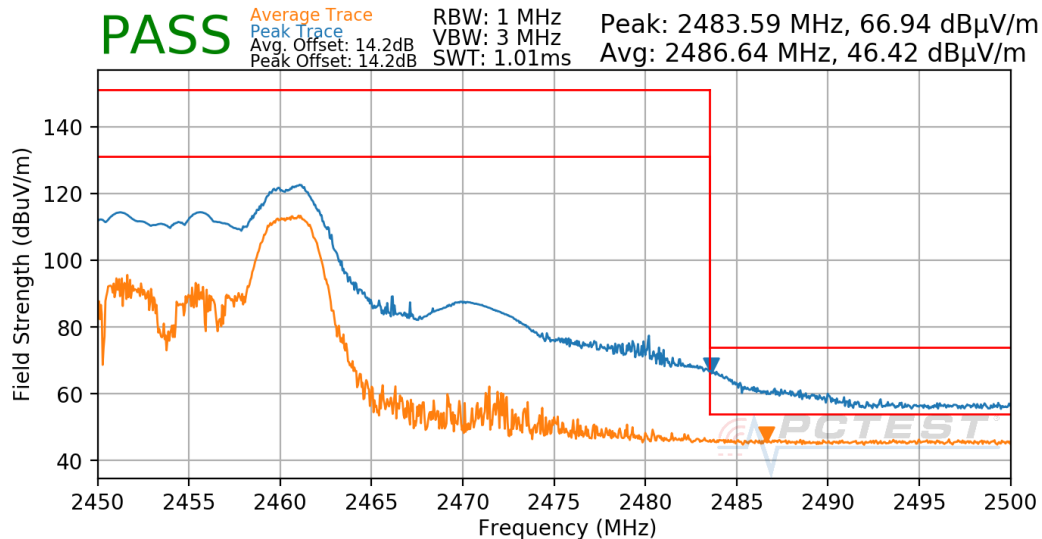
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 139 of 158

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 2427MHz
Channel: 4



Plot 7-184. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

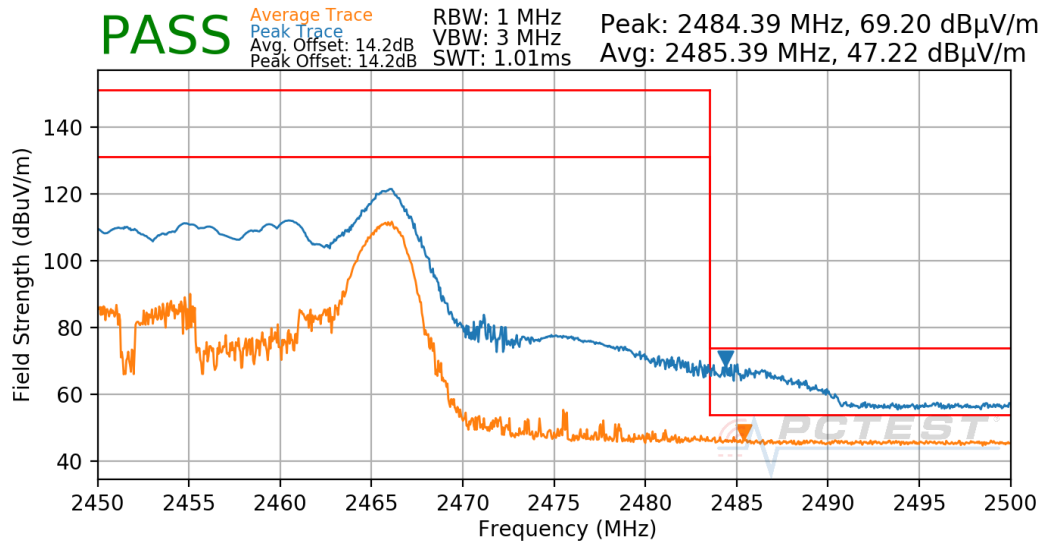
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

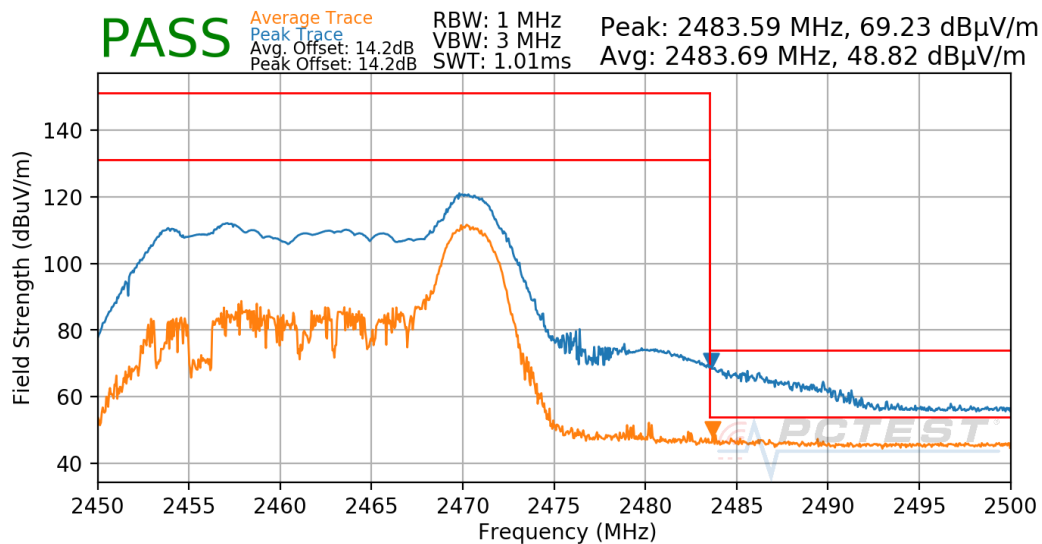
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 140 of 158

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 7-186. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

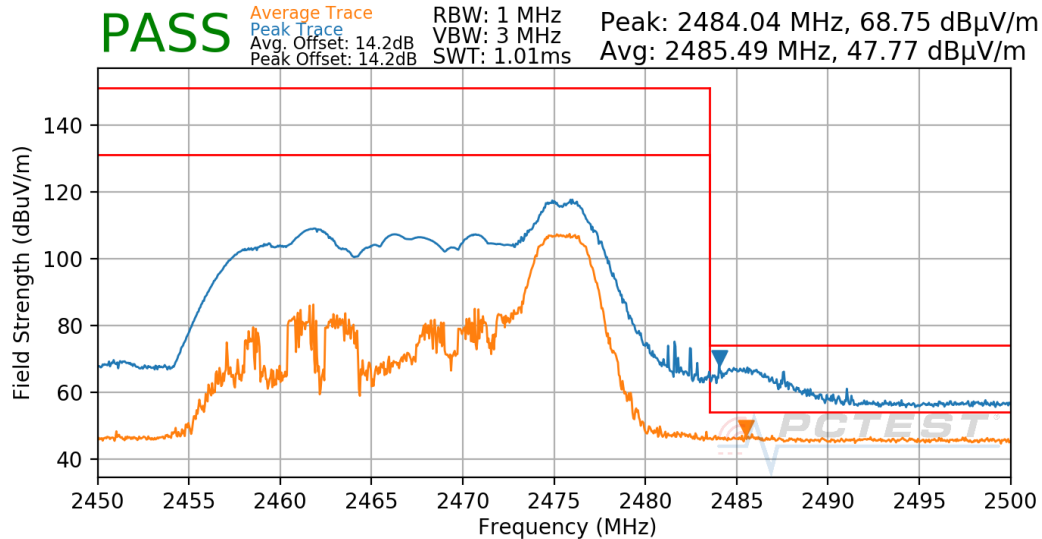
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 8
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-187. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

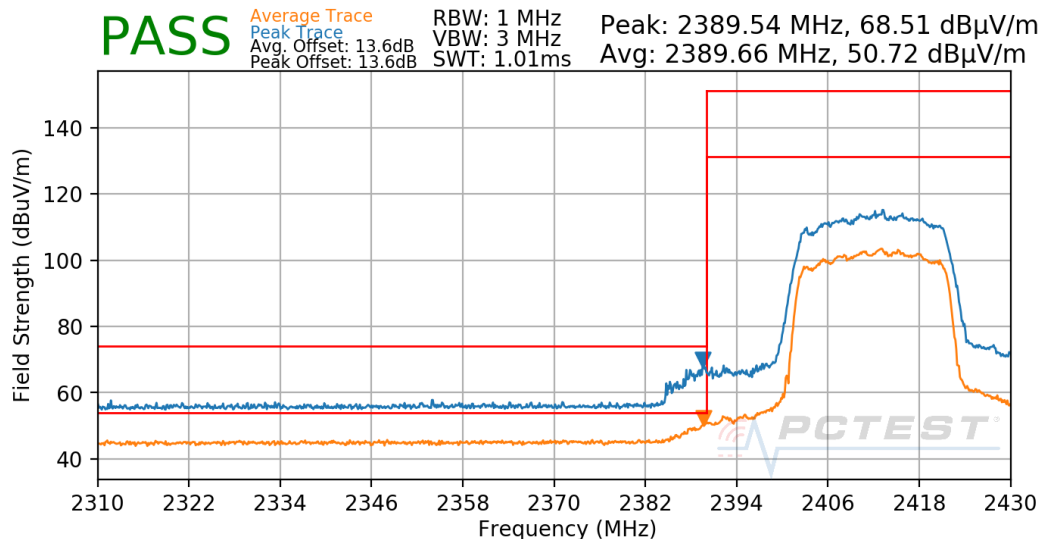
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 141 of 158

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 7-188. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

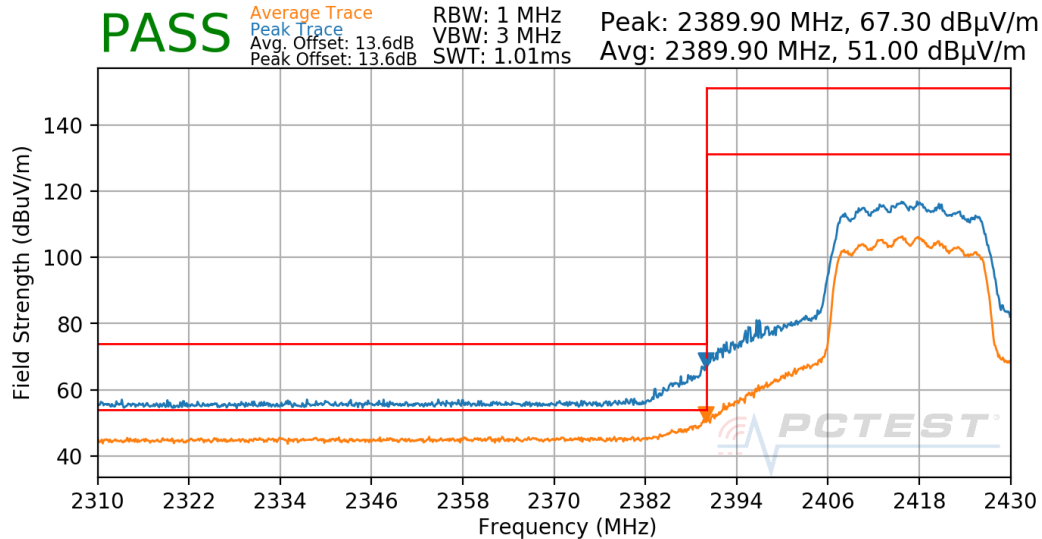
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-189. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

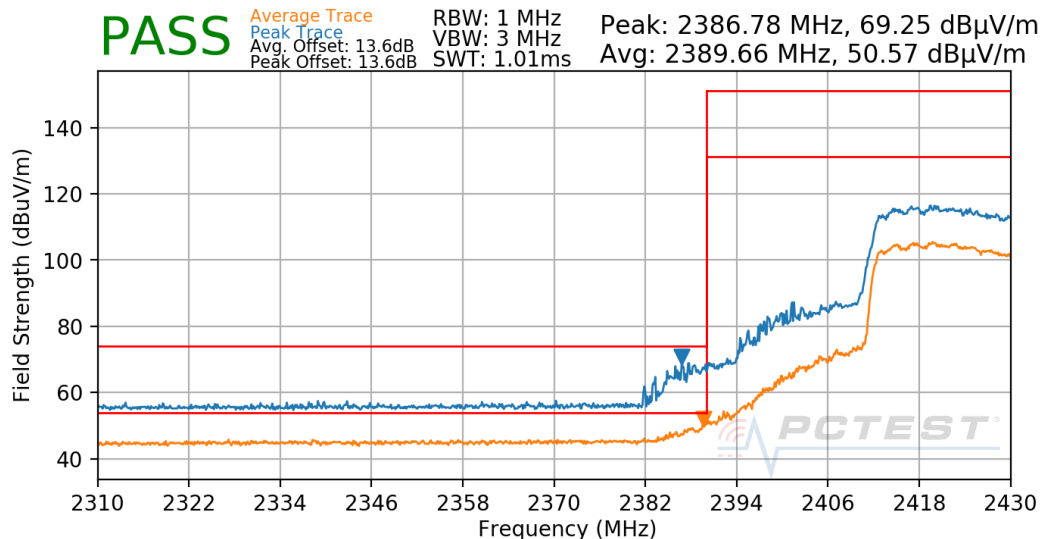
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 142 of 158

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 7-190. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

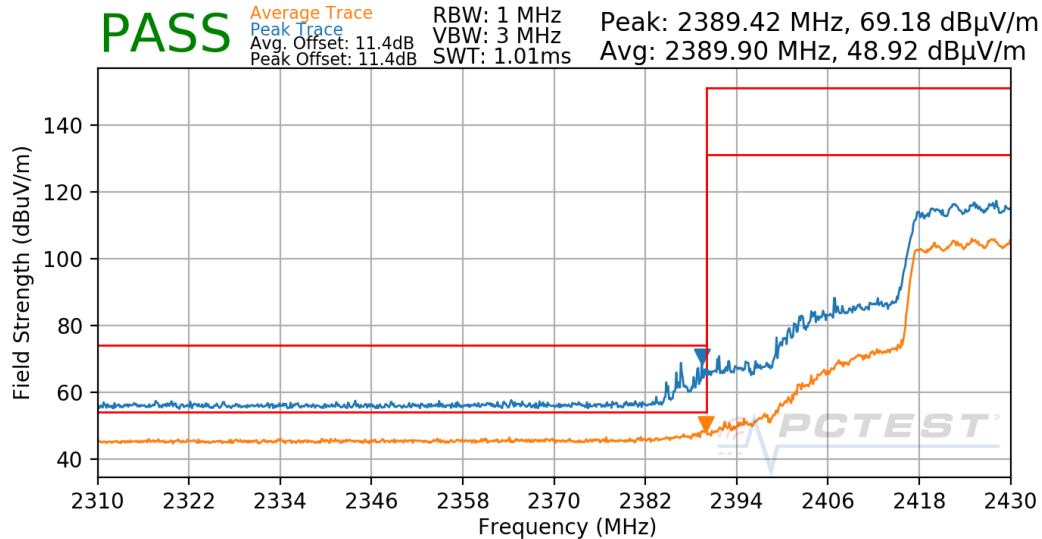
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2422MHz
Channel: 3



Plot 7-191. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

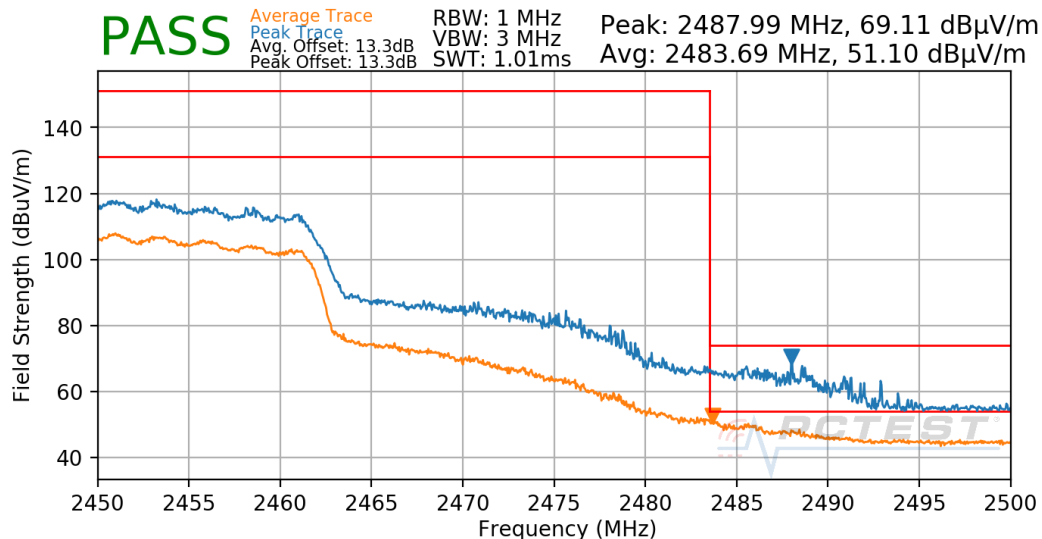
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 143 of 158

Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2427MHz
Channel: 4



Plot 7-192. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

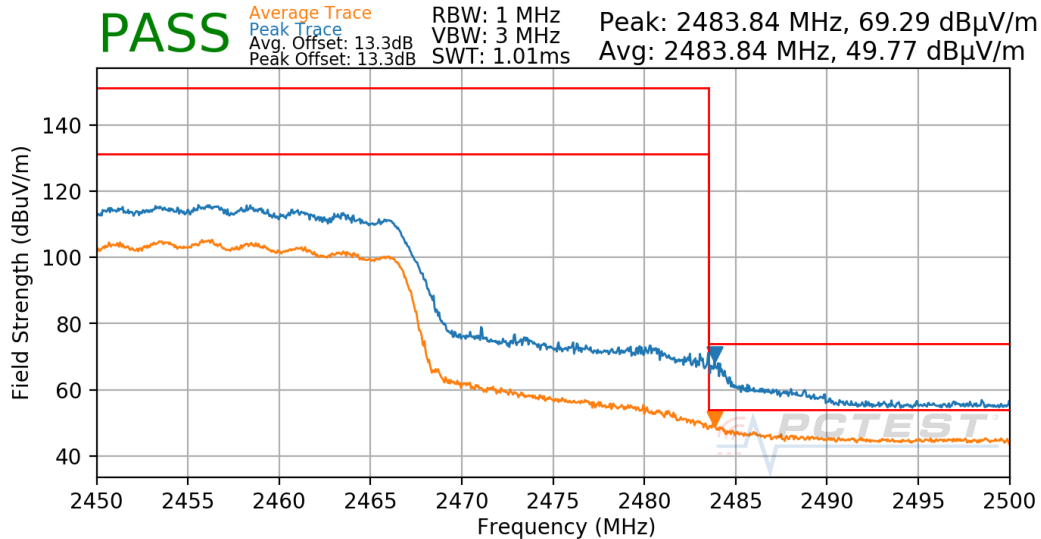
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2452MHz
Channel: 9



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

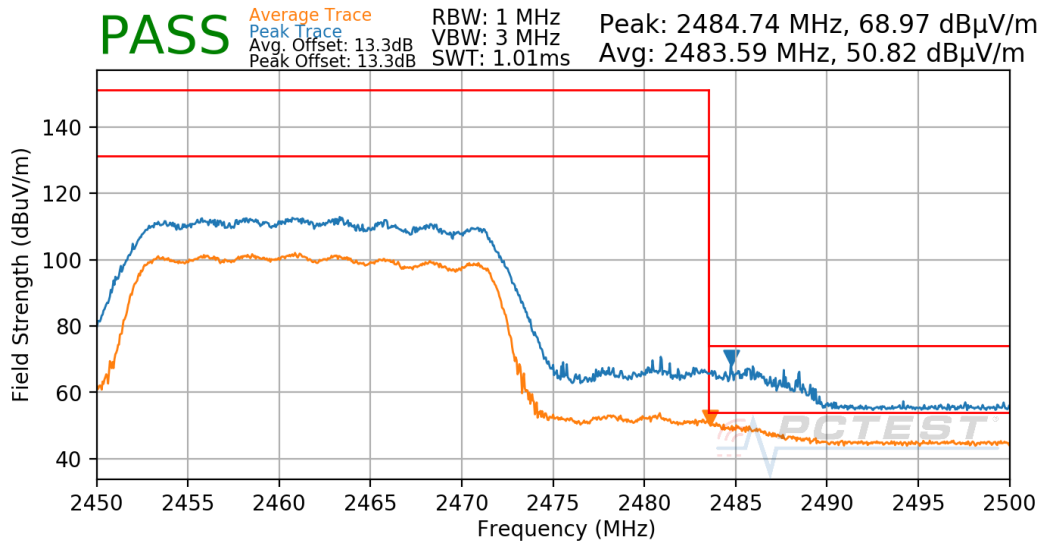
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 144 of 158

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

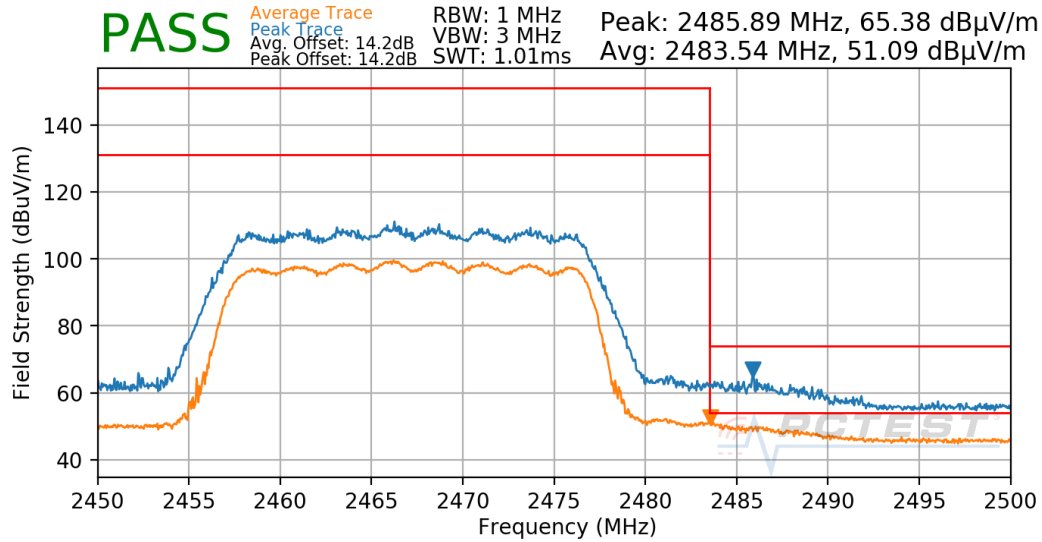
Worst Case Mode: 802.11ax OFDMA
Worst Case Transfer Rate: MCS5
RU Index: 61
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



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

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 145 of 158

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

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-10.BCG	Test Dates: 12/15/2020 – 3/4/2021	EUT Type: Tablet Device	Page 146 of 158

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.

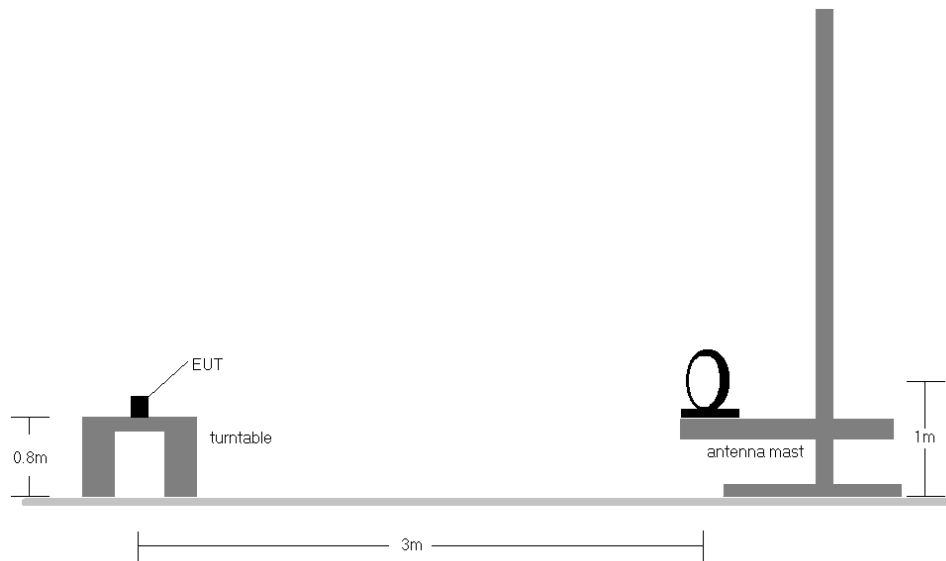


Figure 7-7. Radiated Test Setup < 30Mhz

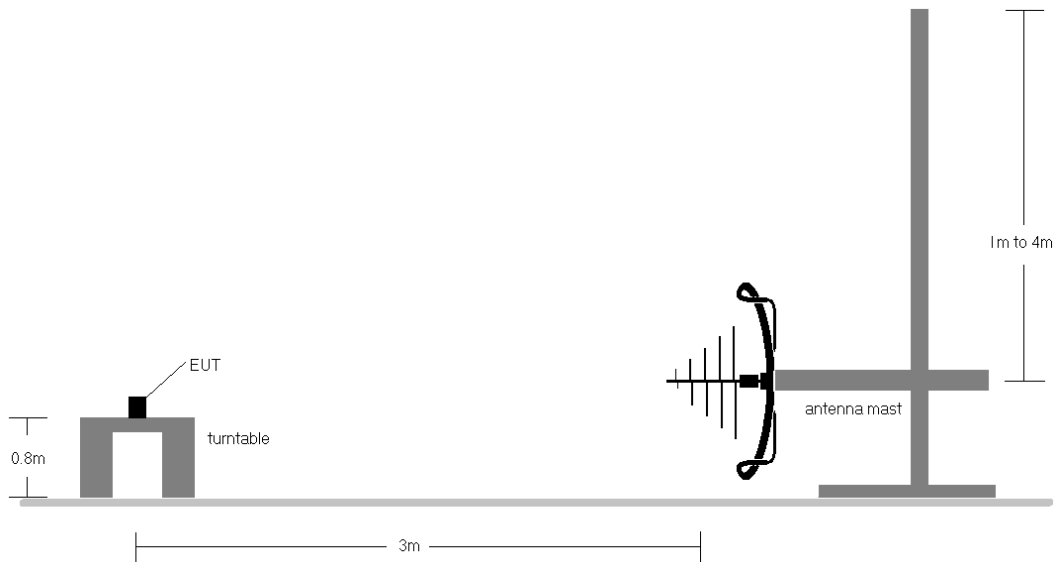


Figure 7-8. Radiated Test Setup < 1GHz

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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. 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 [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

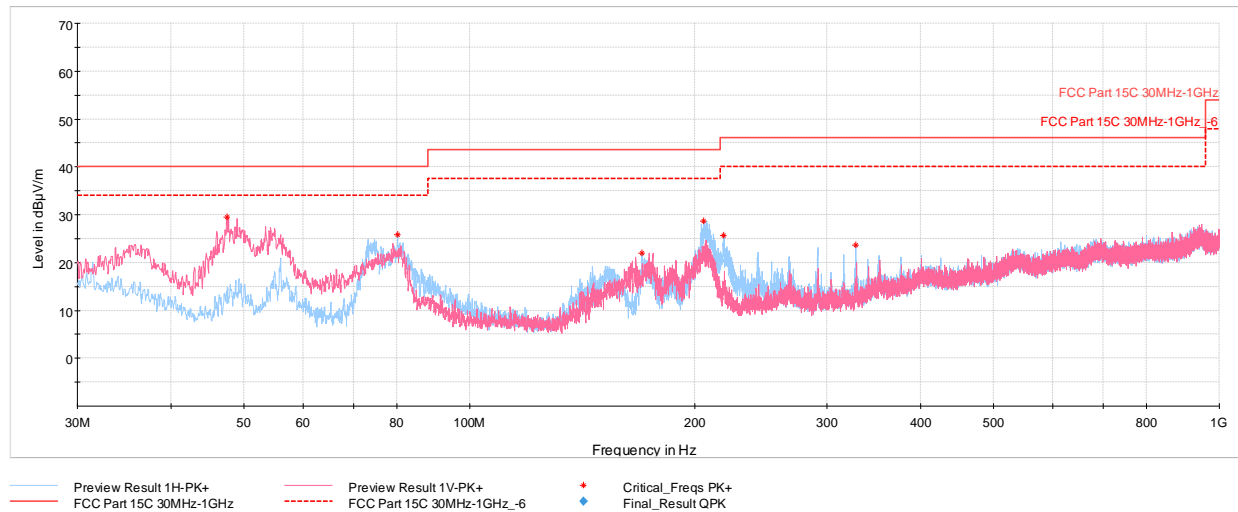


Plot 7-197. Radiated Spurious Emissions below 1GHz CDD Ch.1 (RU26), with AC/DC Adapter

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	Max Peak	V	100	358	-66.52	-14.77	25.71	40.00	-14.29
48.19	Max Peak	V	100	55	-57.47	-20.71	28.82	40.00	-11.18
104.06	Max Peak	H	250	47	-62.63	-19.02	25.35	43.52	-18.17
210.91	Max Peak	H	100	285	-64.97	-16.47	25.56	43.52	-17.96
218.42	Max Peak	H	100	279	-63.77	-16.55	26.68	46.02	-19.34
352.19	Max Peak	H	100	321	-71.44	-11.32	24.24	46.02	-21.78

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

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Plot 7-198. Radiated Spurious Emissions below 1GHz CDD Ch.1 (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]
47.51	Max Peak	V	100	342	-56.94	-20.52	29.54	40.00	-10.46
80.20	Max Peak	H	250	308	-60.35	-20.89	25.76	40.00	-14.24
169.78	Max Peak	H	100	244	-67.56	-17.48	21.96	43.52	-21.56
205.42	Max Peak	H	100	278	-61.72	-16.64	28.64	43.52	-14.88
218.03	Max Peak	H	100	255	-64.84	-16.55	25.61	46.02	-20.41
327.69	Max Peak	H	100	69	-69.86	-13.53	23.61	46.02	-22.41

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

FCC ID: BCGA2301 IC: 579C-A2301	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.

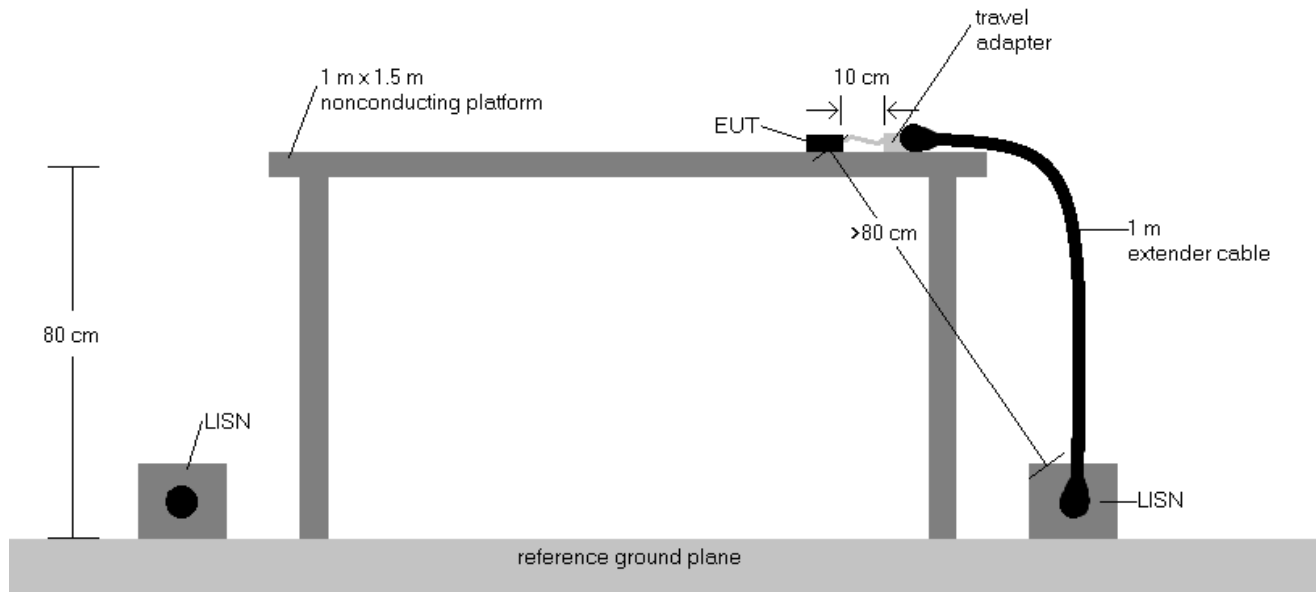
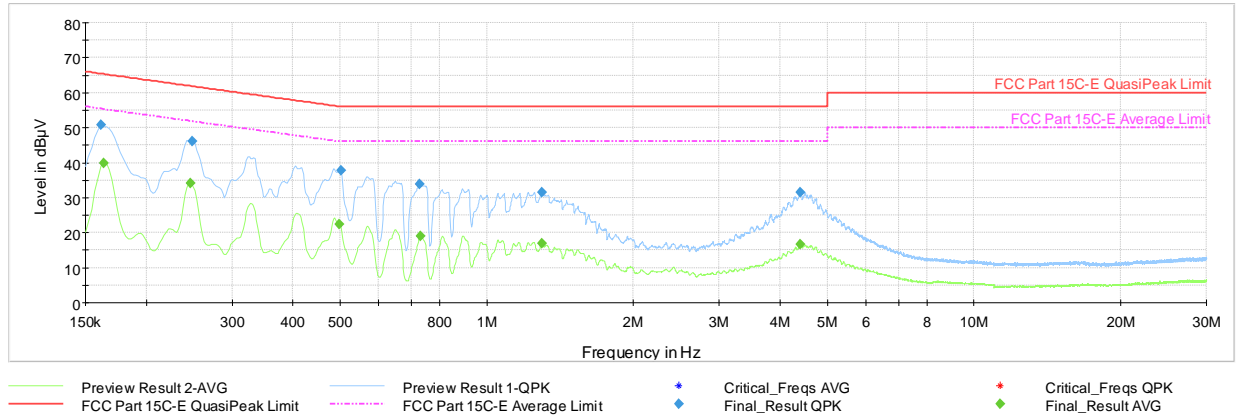


Figure 7-9. Test Instrument & Measurement Setup

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.

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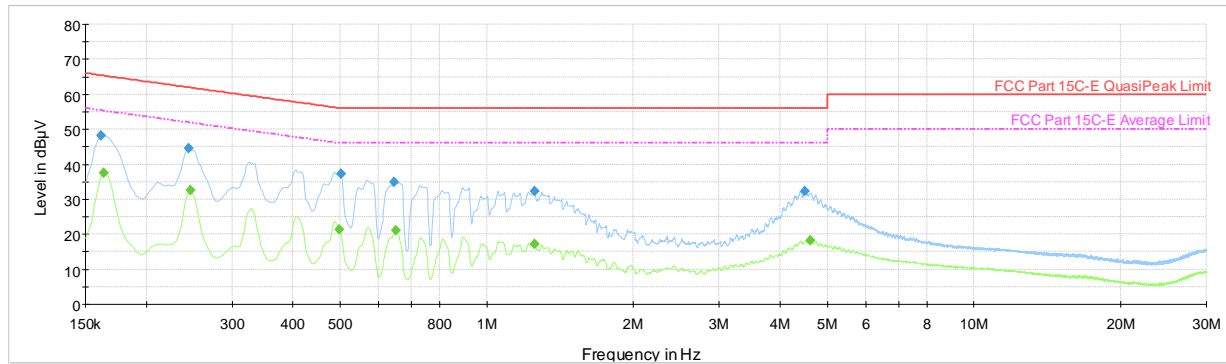


Plot 7-199. AC Line Conducted Emissions with 802.11ax (RU26) Ch.1 (L1, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	50.8	—	65.40	-14.61	L1	GND
0.164	FINAL	—	39.99	55.28	-15.29	L1	GND
0.247	FINAL	—	34.25	51.87	-17.62	L1	GND
0.249	FINAL	46.1	—	61.79	-15.70	L1	GND
0.499	FINAL	—	22.54	46.02	-23.48	L1	GND
0.501	FINAL	37.8	—	56.00	-18.19	L1	GND
0.728	FINAL	33.8	—	56.00	-22.17	L1	GND
0.731	FINAL	—	18.97	46.00	-27.03	L1	GND
1.295	FINAL	—	16.89	46.00	-29.11	L1	GND
1.295	FINAL	31.5	—	56.00	-24.46	L1	GND
4.391	FINAL	31.5	—	56.00	-24.51	L1	GND
4.391	FINAL	—	16.59	46.00	-29.41	L1	GND

Table 7-42. AC Line Conducted Data with 802.11ax (RU26) Ch.1 (L1, with Adapter)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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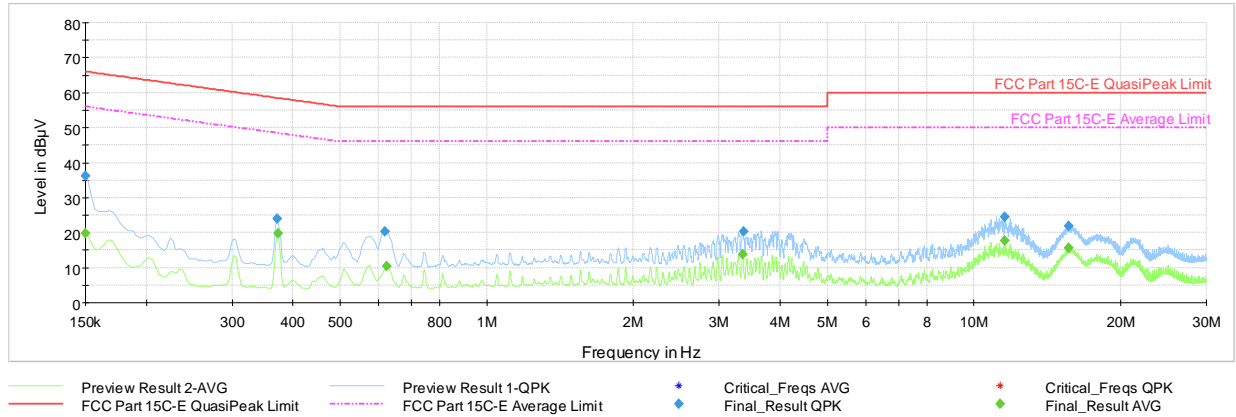
Preview Result 2-AVG Preview Result 1-QPK Critical_Freqs AVG Critical_Freqs QPK
FCC Part 15C-E QuasiPeak Limit FCC Part 15C-E Average Limit Final_Result QPK Final_Result AVG

Plot 7-200. AC Line Conducted Emissions with 802.11ax (RU26) Ch.1 (N, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.161	FINAL	48.3	—	65.40	-17.08	N	GND
0.164	FINAL	—	37.58	55.28	-17.71	N	GND
0.245	FINAL	44.5	—	61.94	-17.44	N	GND
0.247	FINAL	—	32.52	51.87	-19.35	N	GND
0.499	FINAL	—	21.33	46.02	-24.69	N	GND
0.501	FINAL	37.2	—	56.00	-18.80	N	GND
0.645	FINAL	34.8	—	56.00	-21.17	N	GND
0.650	FINAL	—	21.13	46.00	-24.87	N	GND
1.253	FINAL	—	17.29	46.00	-28.71	N	GND
1.255	FINAL	32.3	—	56.00	-23.68	N	GND
4.497	FINAL	32.2	—	56.00	-23.80	N	GND
4.621	FINAL	—	18.12	46.00	-27.88	N	GND

Table 7-43. AC Line Conducted Data with 802.11ax (RU26) Ch.1 (N, with Adapter)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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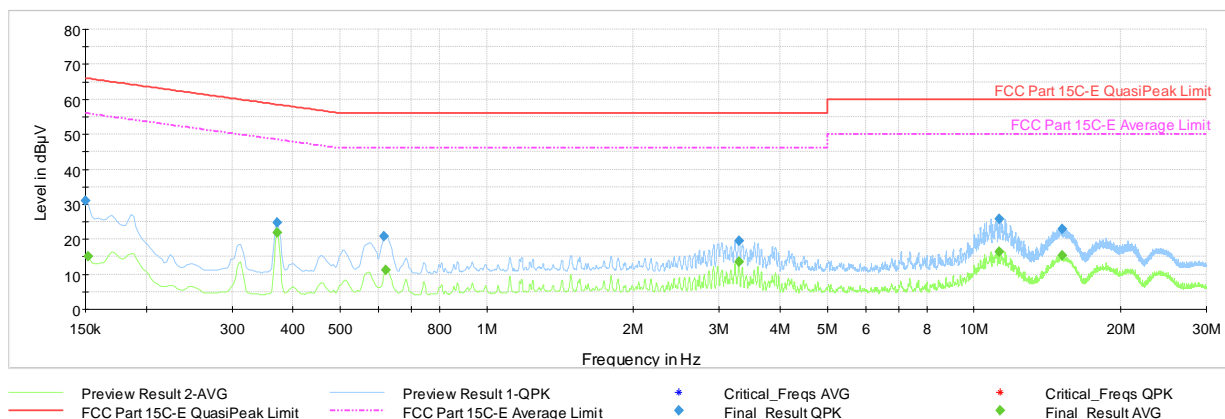


Plot 7-201. AC Line Conducted Emissions with 802.11ax (RU26) Ch.1 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.150	FINAL	36.2	—	66.00	-29.83	L1	GND
0.150	FINAL	—	19.70	56.00	-36.30	L1	GND
0.371	FINAL	24.0	—	58.49	-34.48	L1	GND
0.373	FINAL	—	19.76	48.44	-28.67	L1	GND
0.618	FINAL	20.4	—	56.00	-35.61	L1	GND
0.623	FINAL	—	10.37	46.00	-35.63	L1	GND
3.352	FINAL	—	13.75	46.00	-32.25	L1	GND
3.361	FINAL	20.4	—	56.00	-35.57	L1	GND
11.571	FINAL	—	17.61	50.00	-32.39	L1	GND
11.571	FINAL	24.6	—	60.00	-35.45	L1	GND
15.605	FINAL	22.0	—	60.00	-38.03	L1	GND
15.605	FINAL	—	15.52	50.00	-34.48	L1	GND

Table 7-44. AC Line Conducted Data with 802.11ax (RU26) Ch.1 (L1, with Laptop)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-202. AC Line Conducted Emissions with 802.11ax (RU26) Ch.1 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.150	FINAL	31.1	—	66.00	-34.92	N	GND
0.152	FINAL	—	15.03	55.88	-40.85	N	GND
0.371	FINAL	24.8	—	58.49	-33.66	N	GND
0.371	FINAL	—	21.94	48.49	-26.55	N	GND
0.616	FINAL	20.7	—	56.00	-35.26	N	GND
0.620	FINAL	—	11.25	46.00	-34.75	N	GND
3.291	FINAL	—	13.49	46.00	-32.51	N	GND
3.293	FINAL	19.5	—	56.00	-36.55	N	GND
11.270	FINAL	—	16.49	50.00	-33.51	N	GND
11.274	FINAL	25.9	—	60.00	-34.08	N	GND
15.187	FINAL	—	15.25	50.00	-34.75	N	GND
15.200	FINAL	23.0	—	60.00	-36.99	N	GND

Table 7-45. AC Line Conducted Data with 802.11ax (RU26) Ch.1 (N, with Laptop)

FCC ID: BCGA2301 IC: 579C-A2301	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: BCGA2301, IC: 579C-A2301** 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.

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