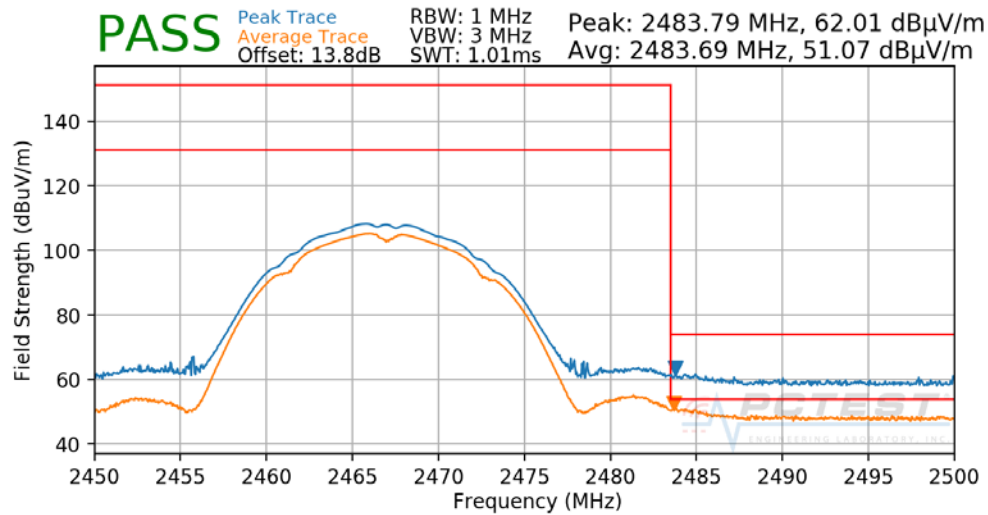
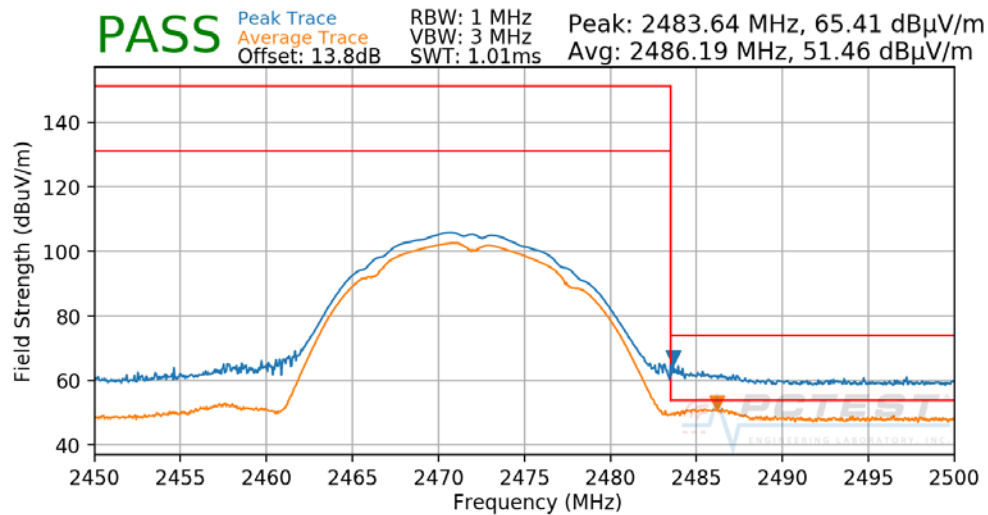


Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-152. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

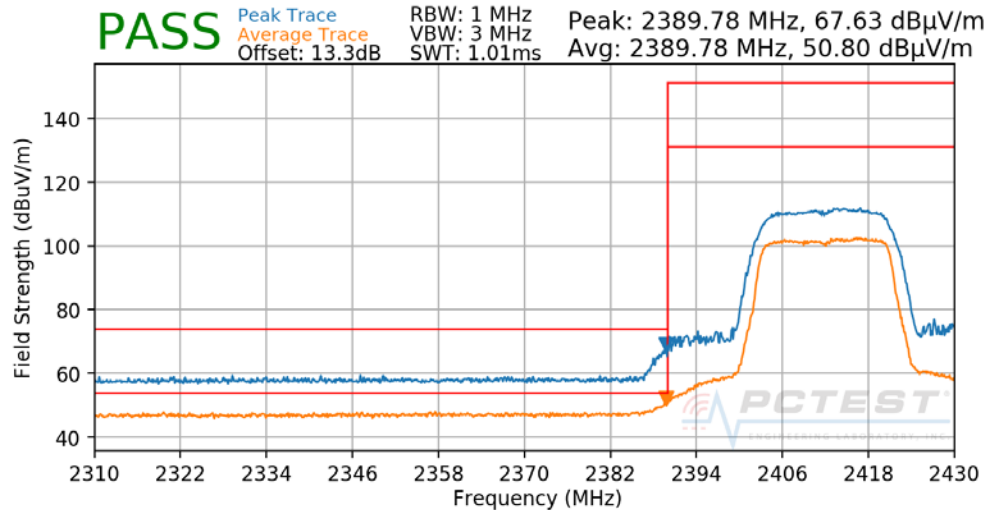
Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-153. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

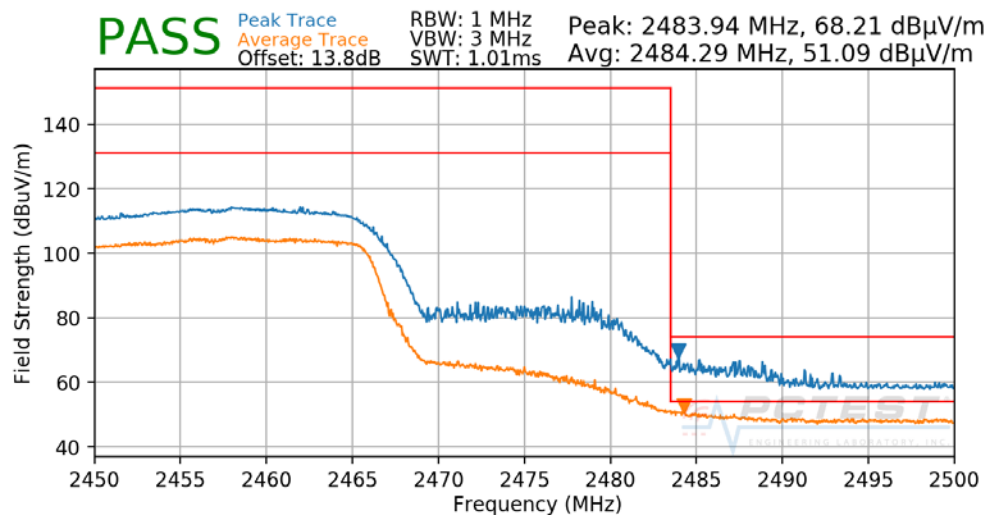
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 115 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-154. Radiated Restricted Lower Band Edge Measurement SISO CORE0 (Average & Peak)

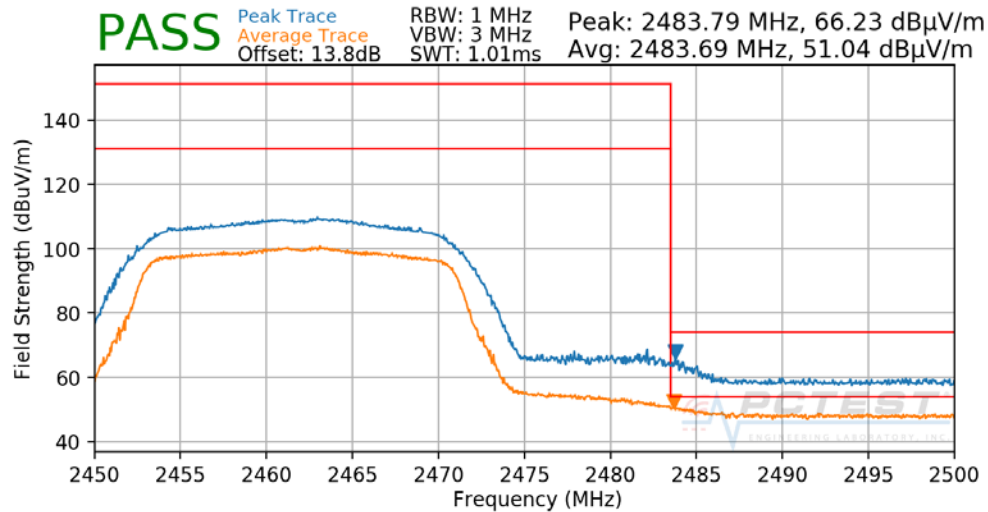
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-155. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

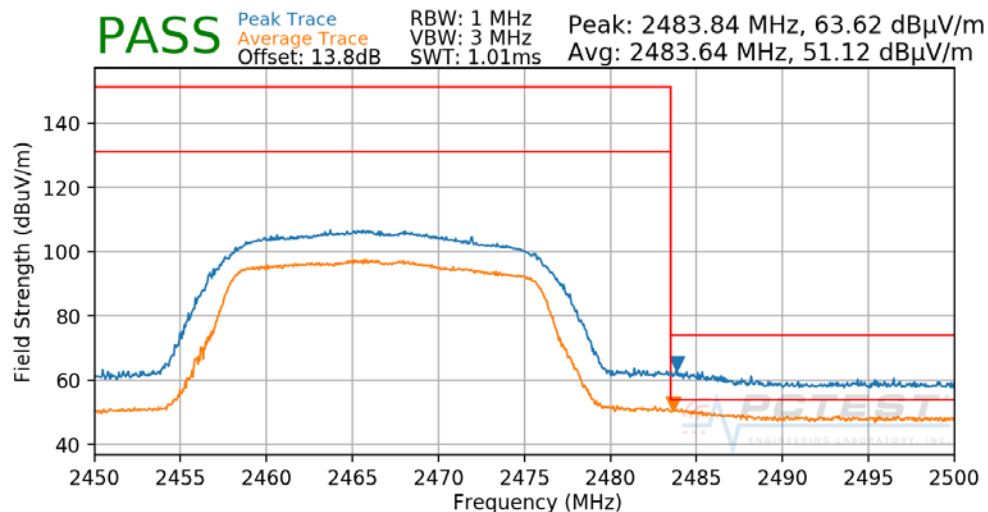
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 116 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-156. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

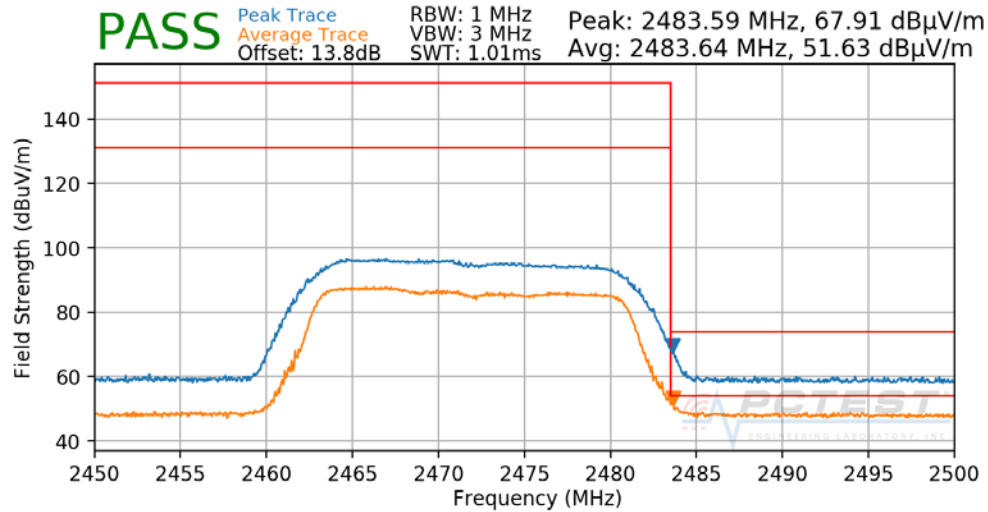
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-157. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 117 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-158. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

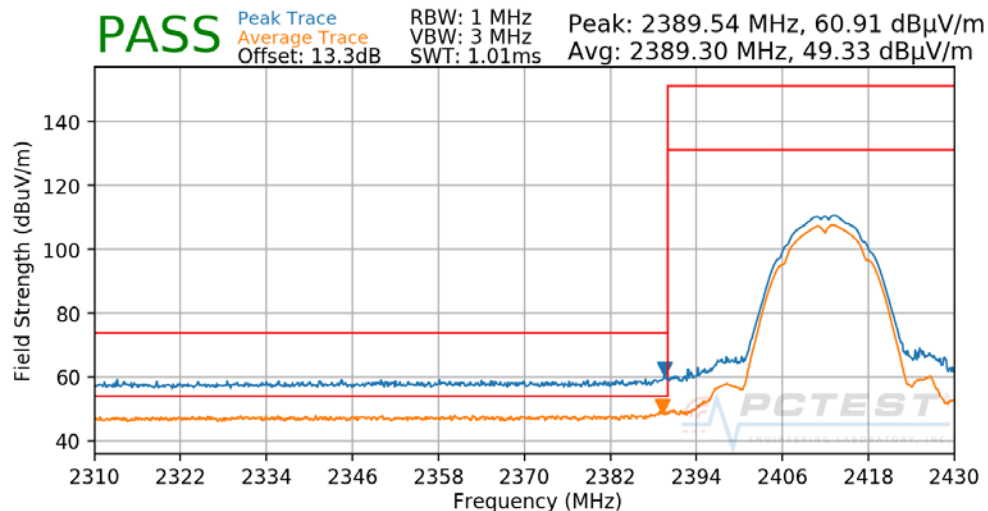
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 118 of 142 |

7.7.7 SISO Core1 Primary Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

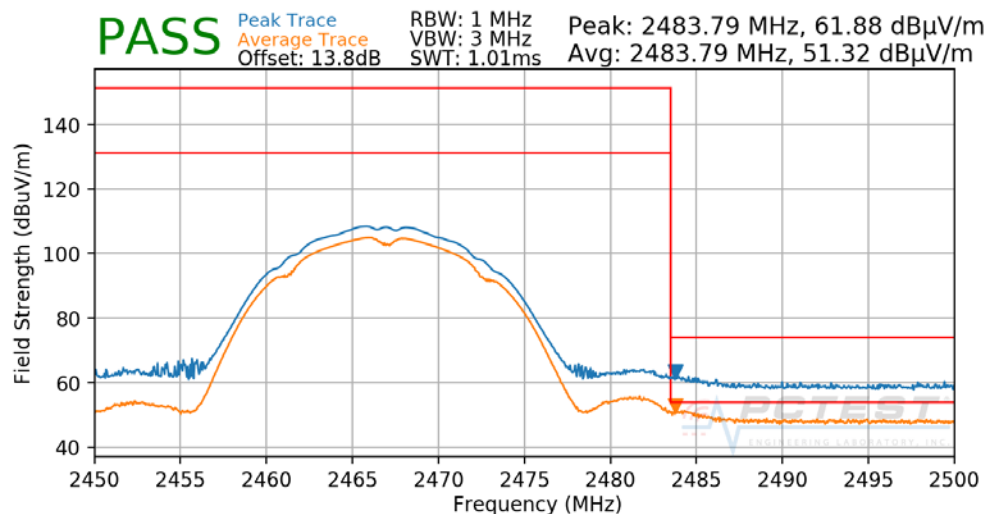
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11b |
| Worst Case Transfer Rate: | 1Mbps |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2412MHz |
| Channel: | 1 |



Plot 7-159. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

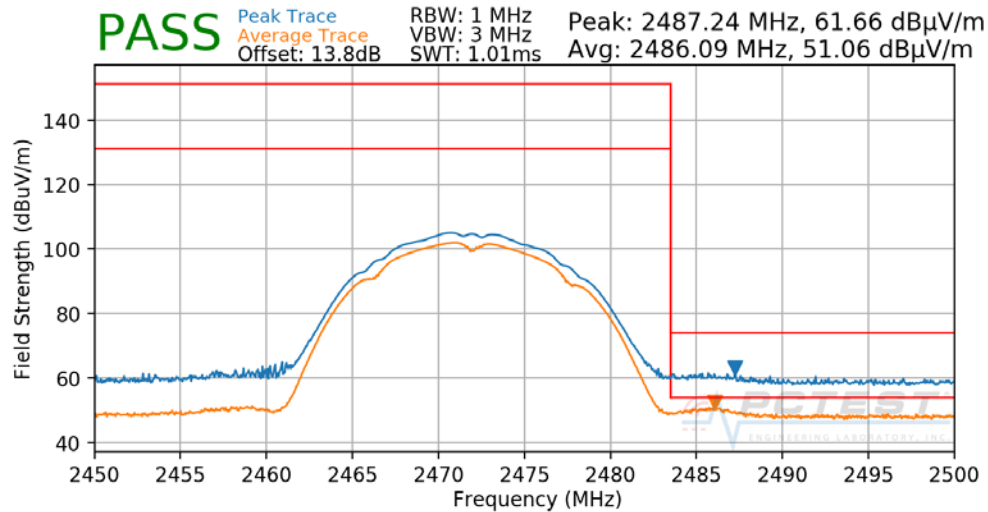
| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11b |
| Worst Case Transfer Rate: | 1Mbps |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2467MHz |
| Channel: | 12 |



Plot 7-160. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

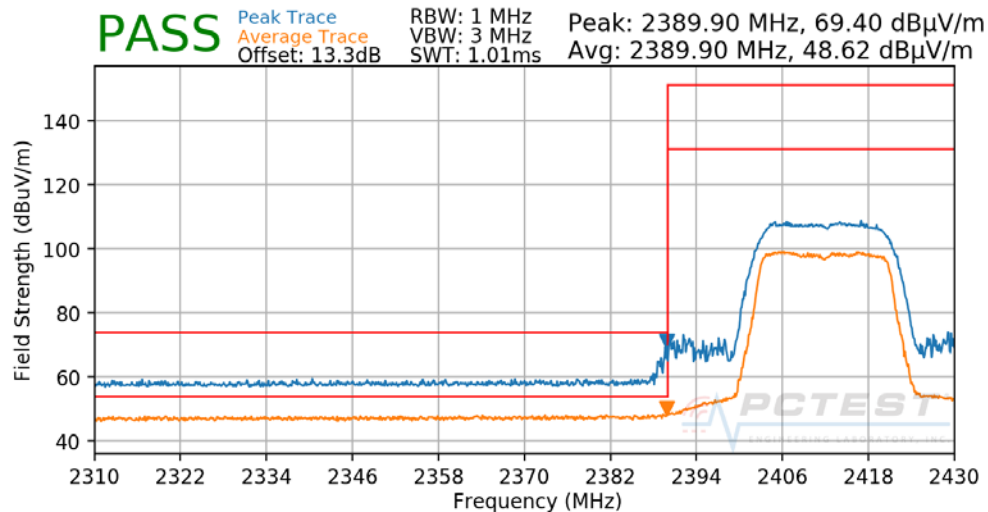
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 119 of 142 |

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-161. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

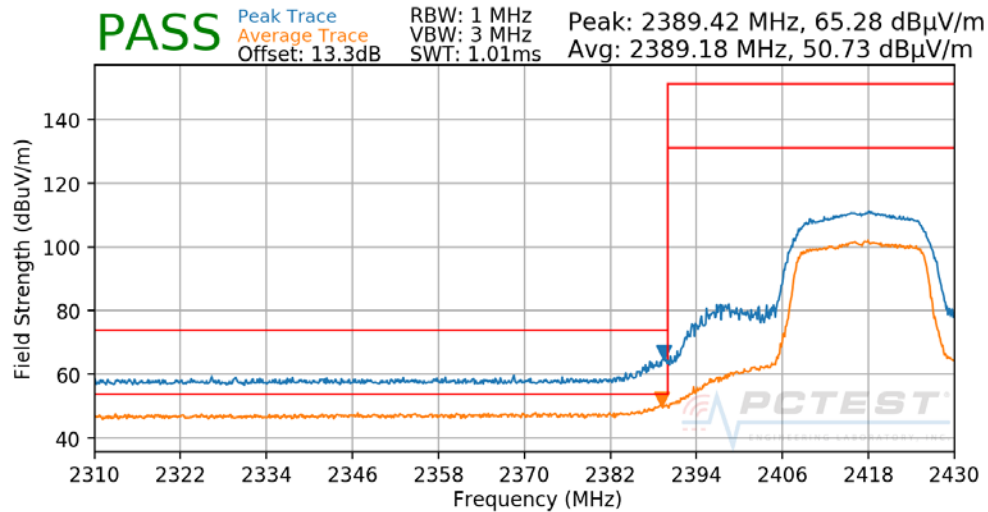
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-162. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

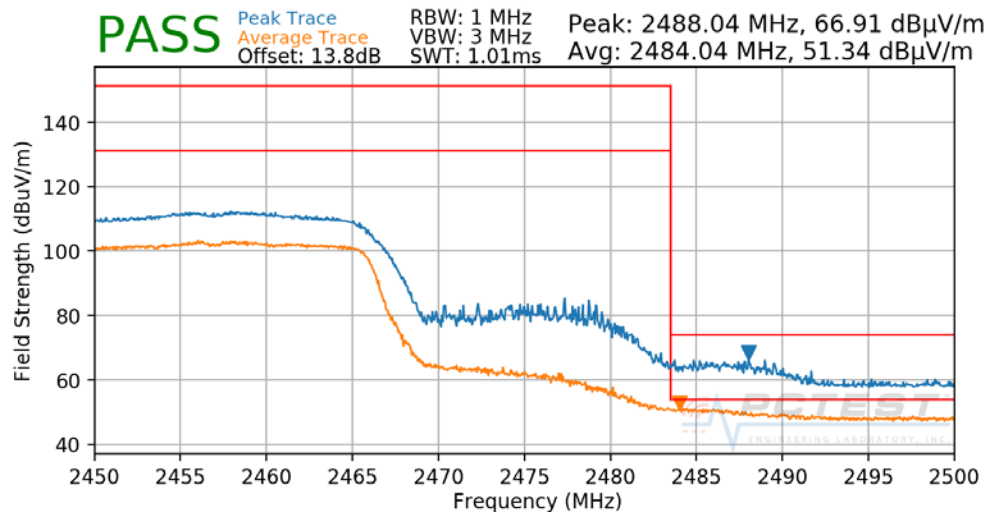
| | | | |
|---|--|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 120 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-163. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

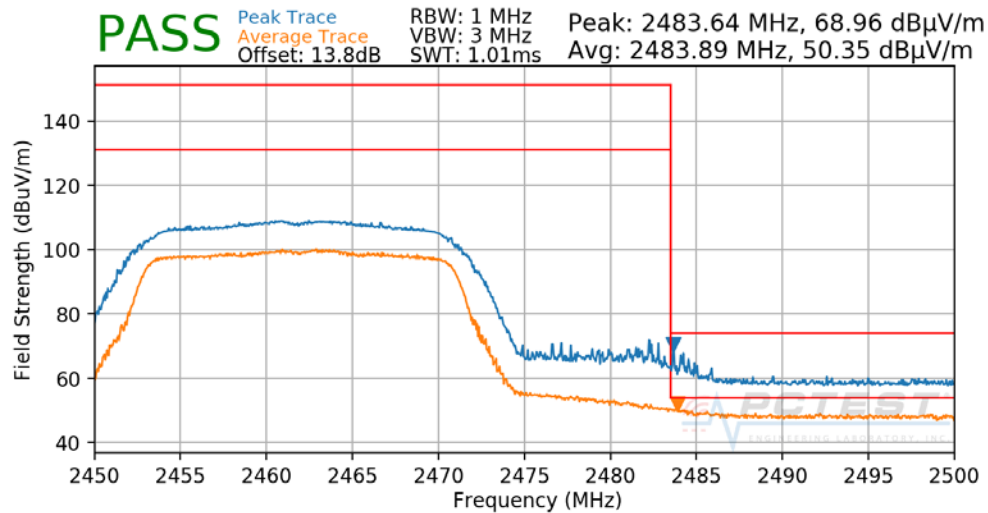
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-164. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

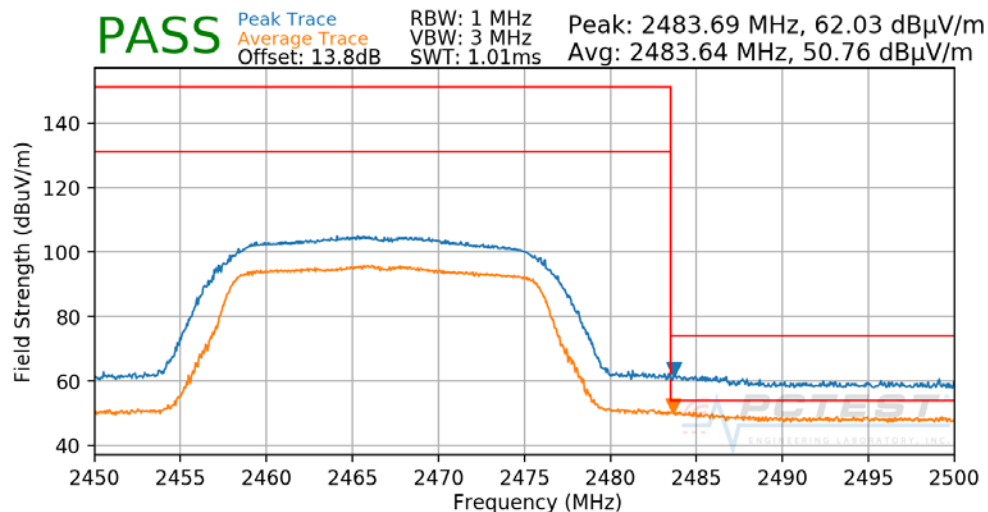
| | | | |
|---|--|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 121 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-165. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

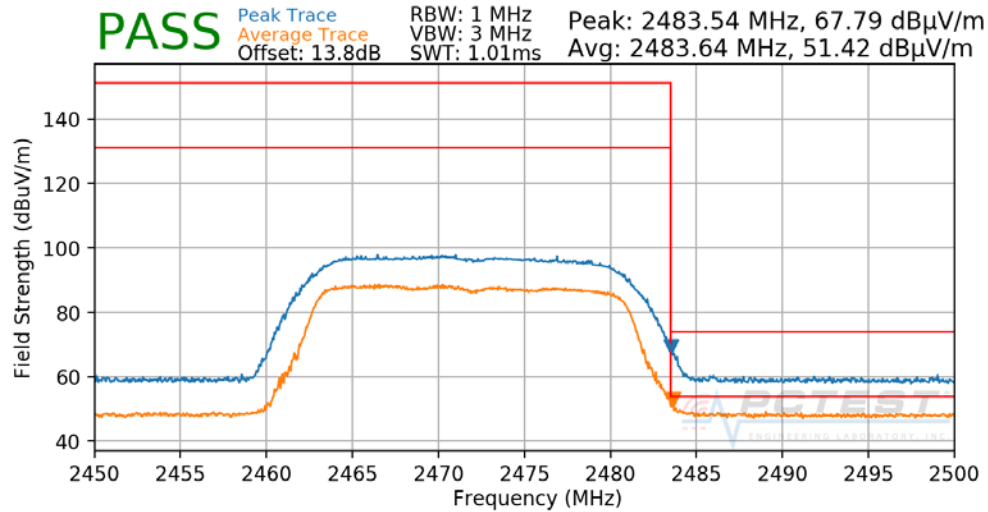
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-166. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 122 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-167. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

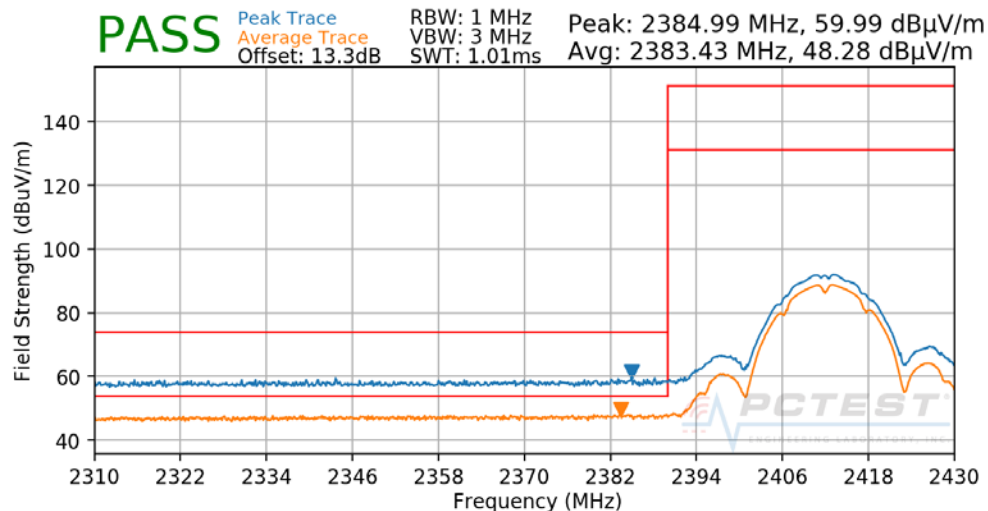
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 123 of 142 |

7.7.8 SISO Core1 Diversity Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

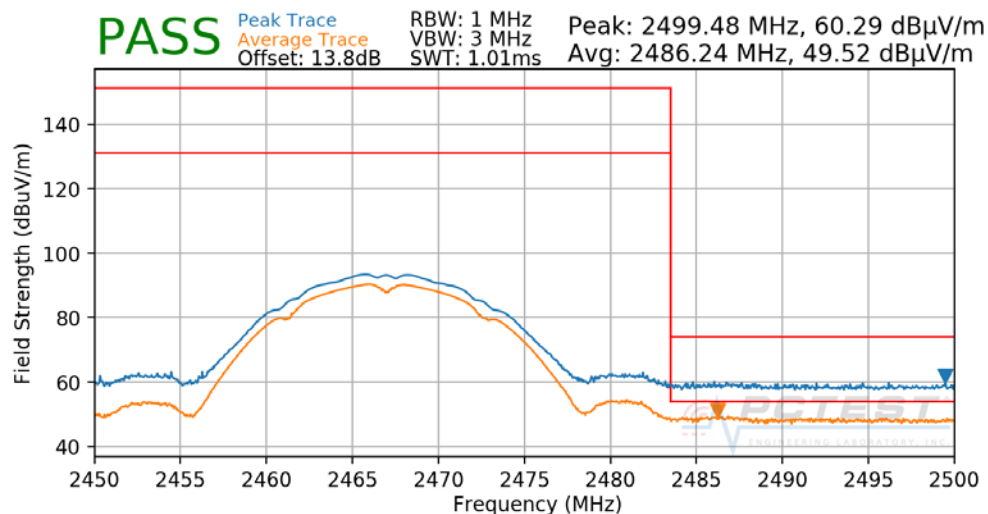
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11b |
| Worst Case Transfer Rate: | 1Mbps |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2412MHz |
| Channel: | 1 |



Plot 7-168. Radiated Restricted Lower Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

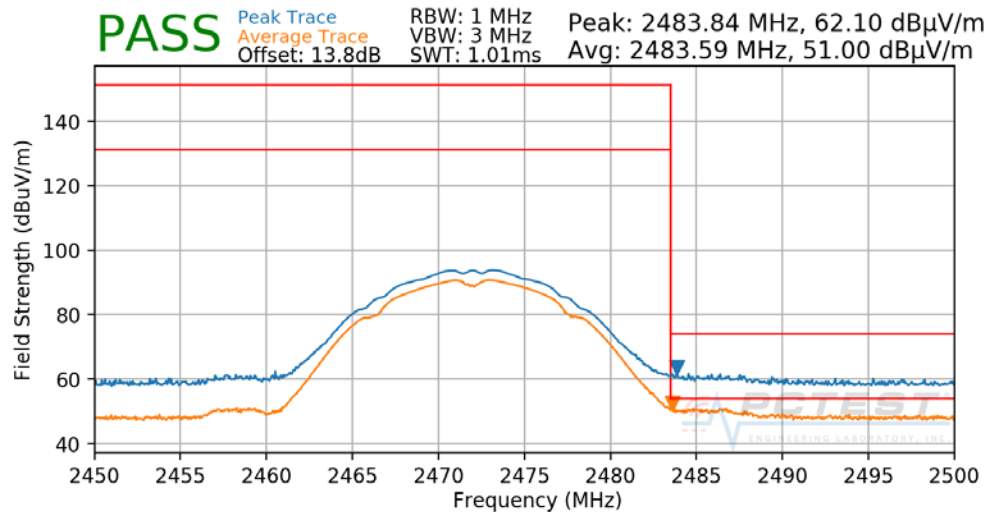
| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11b |
| Worst Case Transfer Rate: | 1Mbps |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2467MHz |
| Channel: | 12 |



Plot 7-169. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

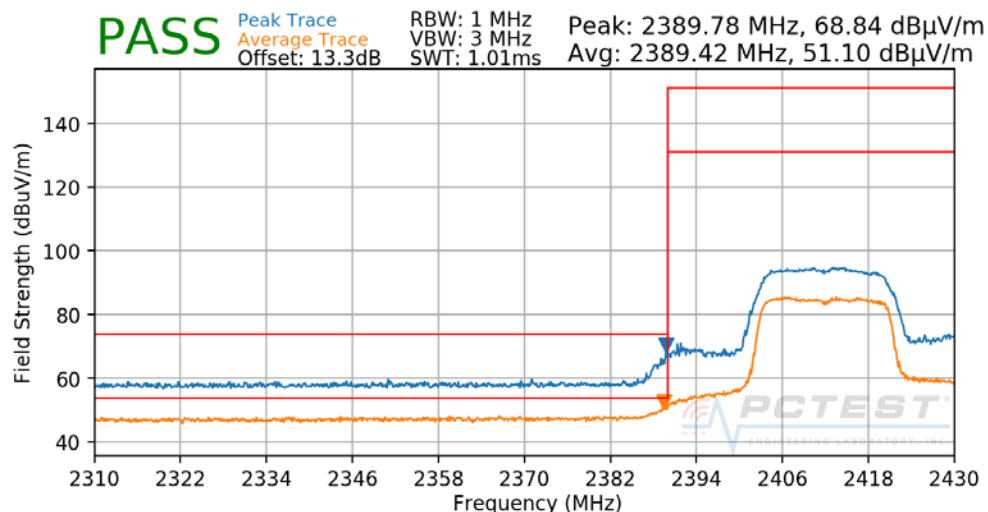
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 124 of 142 |

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-170. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

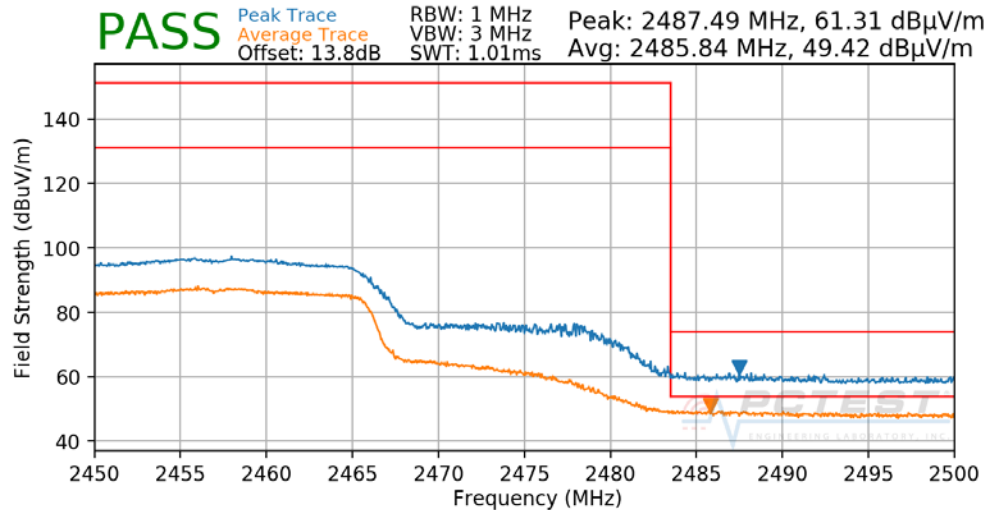
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-171. Radiated Restricted Lower Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

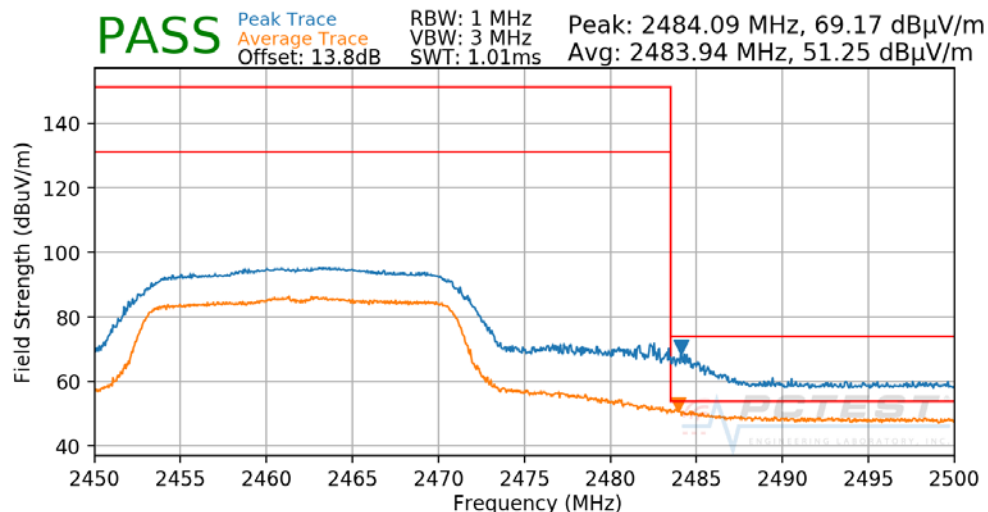
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 125 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-172. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

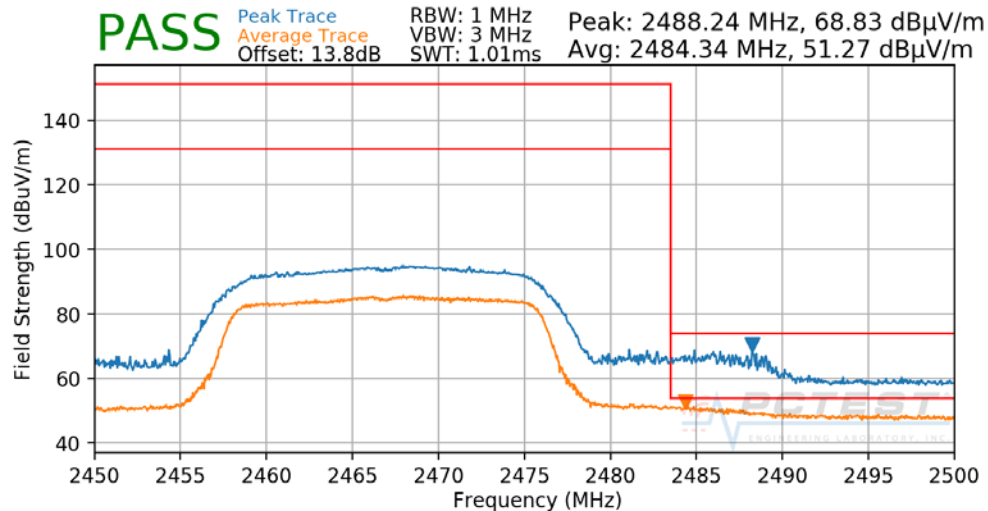


Plot 7-173. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

Worst Case Mode: 802.11n

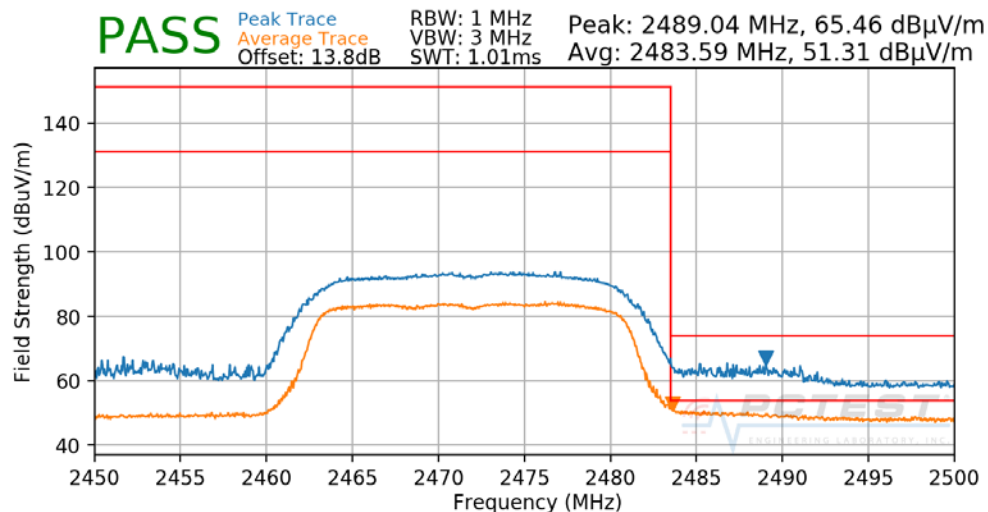
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 126 of 142 | |

| | |
|---------------------------|----------|
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2467MHz |
| Channel: | 12 |



Plot 7-174. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11n |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2472MHz |
| Channel: | 13 |



Plot 7-175. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

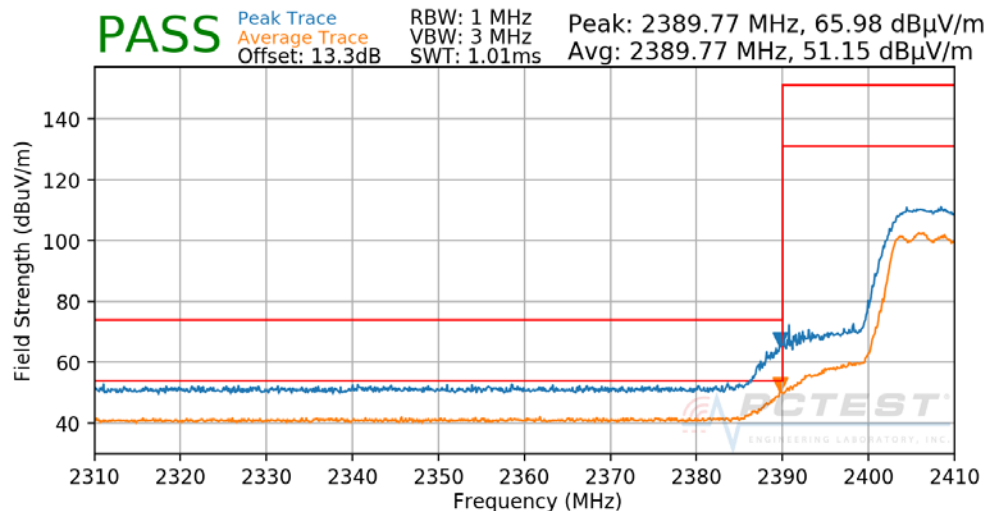
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 127 of 142 |

7.7.9 CDD Primary Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

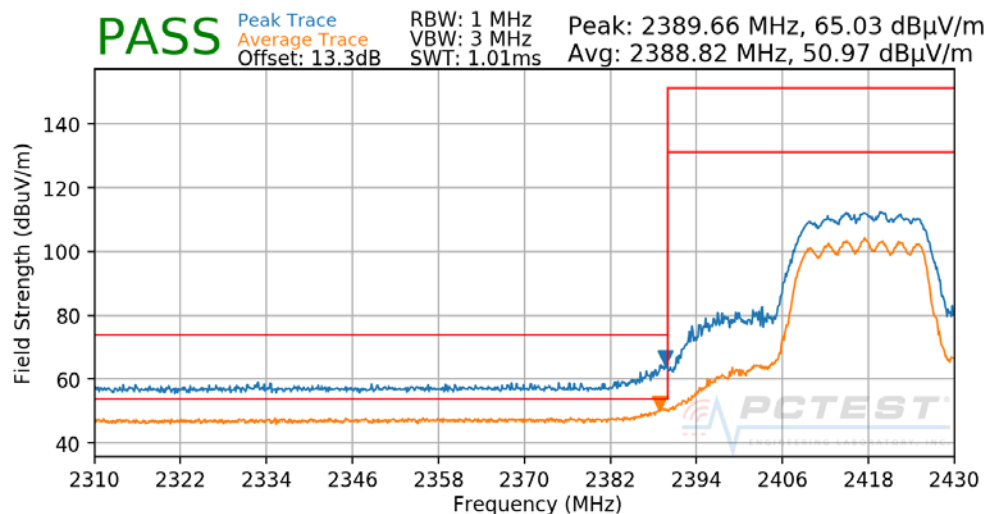
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11n |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2412MHz |
| Channel: | 1 |



Plot 7-176. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY (Average & Peak)

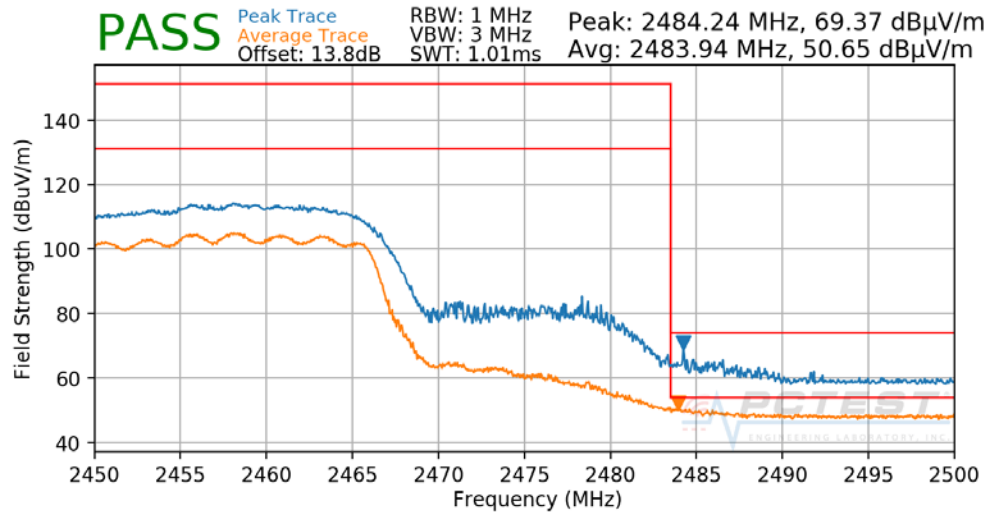
| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11n |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2417MHz |
| Channel: | 2 |



Plot 7-177. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY (Average & Peak)

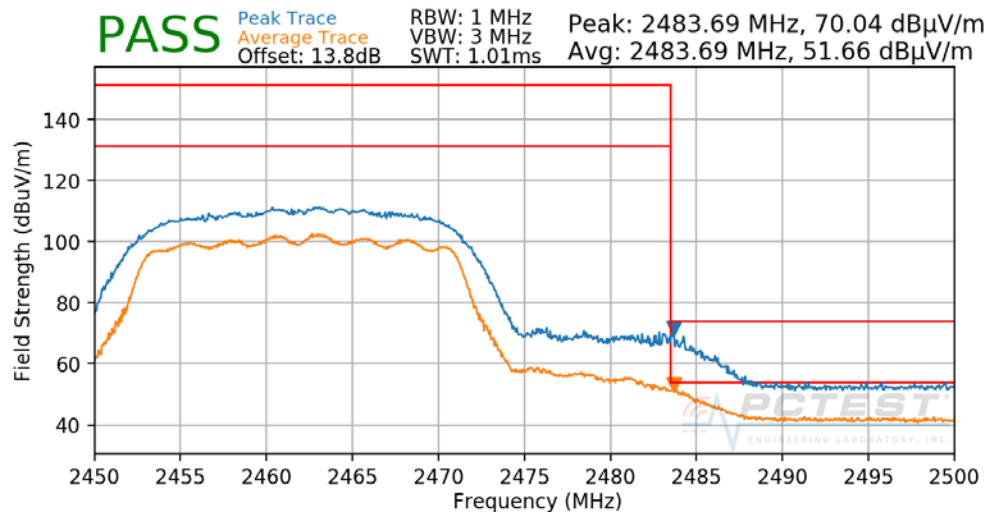
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 128 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



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

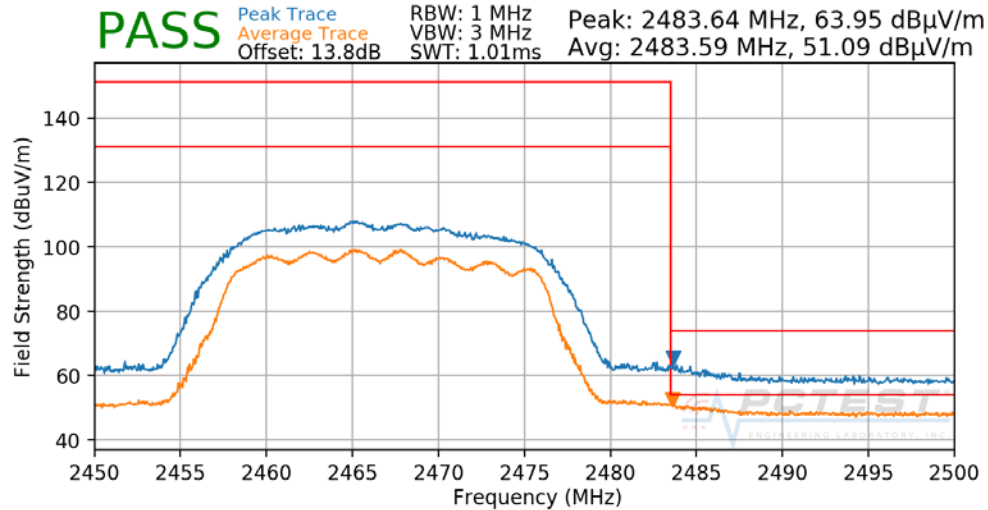
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



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

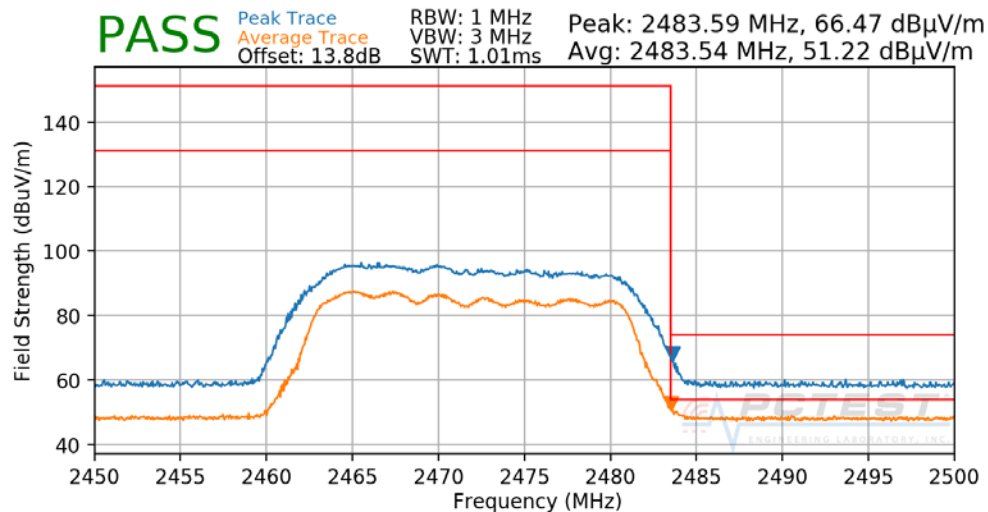
| | | | |
|---|--|----------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 129 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MSC0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-180. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



Plot 7-181. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)

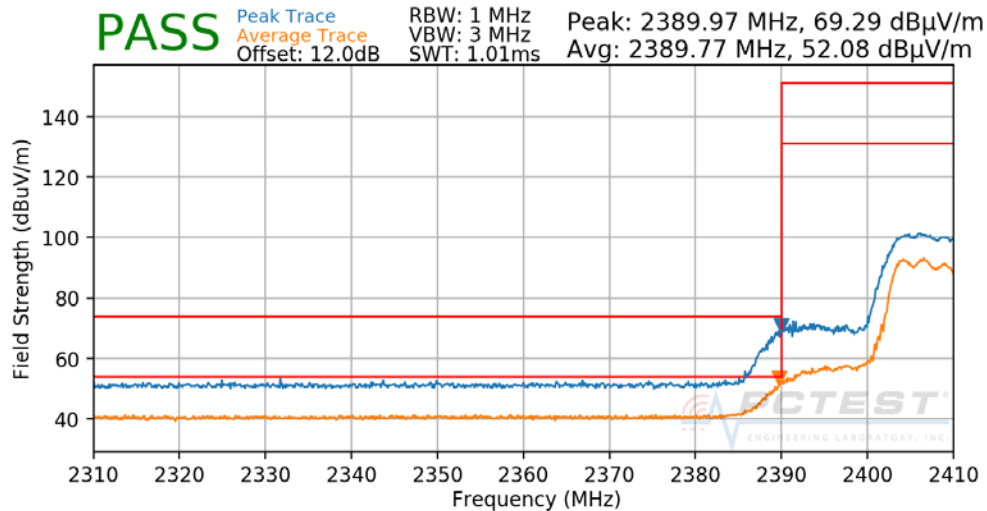
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 130 of 142 |

7.7.10 CDD Diversity Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

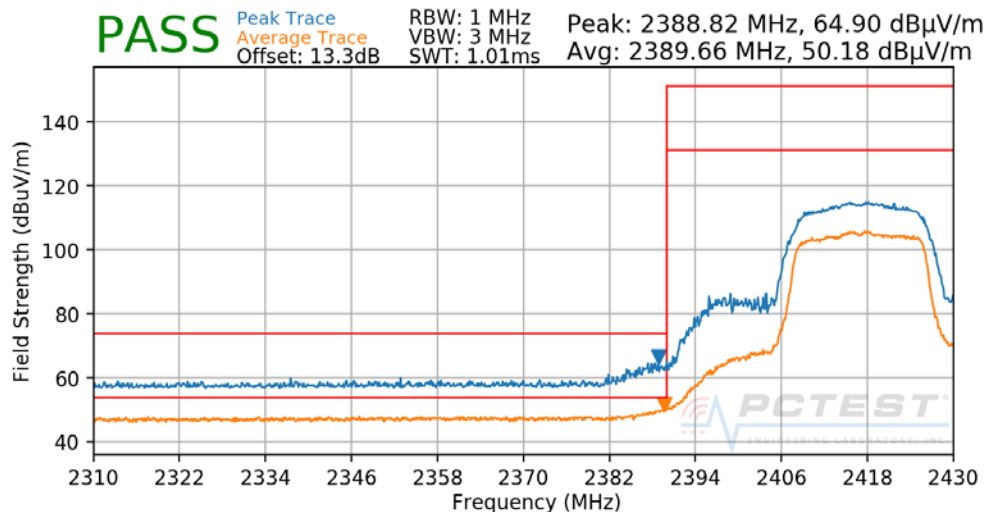
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11n |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2412MHz |
| Channel: | 1 |



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

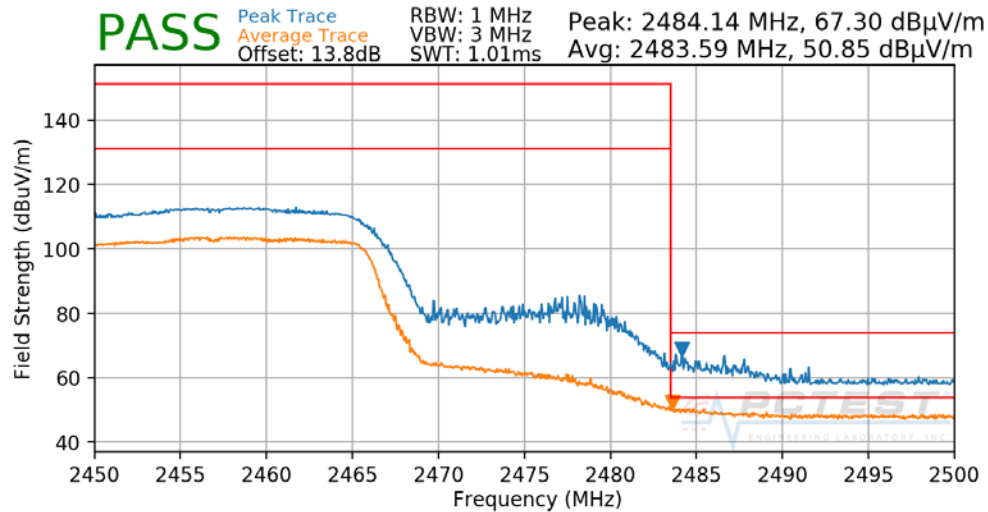
| | |
|---------------------------|----------|
| Worst Case Mode: | 802.11n |
| Worst Case Transfer Rate: | MCS0 |
| Distance of Measurements: | 3 Meters |
| Operating Frequency: | 2417MHz |
| Channel: | 2 |



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

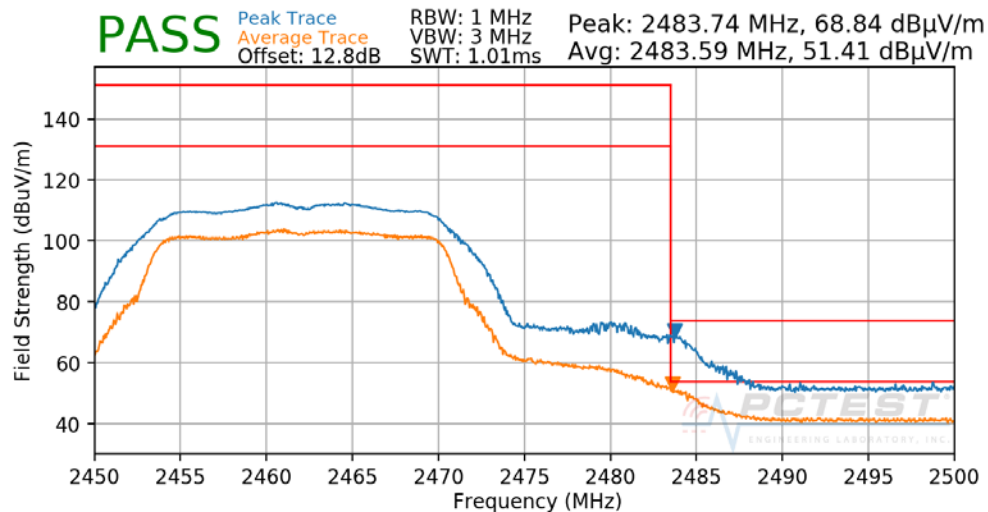
| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 131 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



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

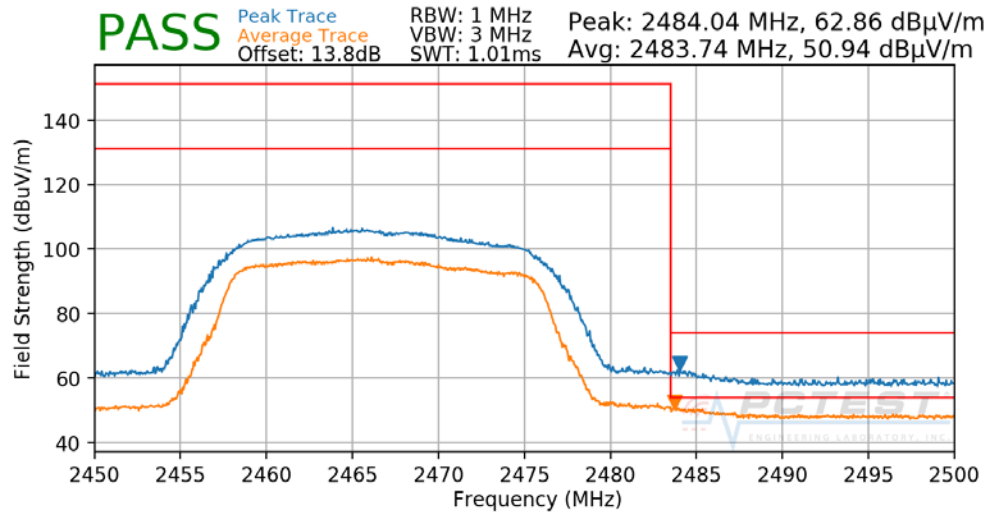
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MSC0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



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

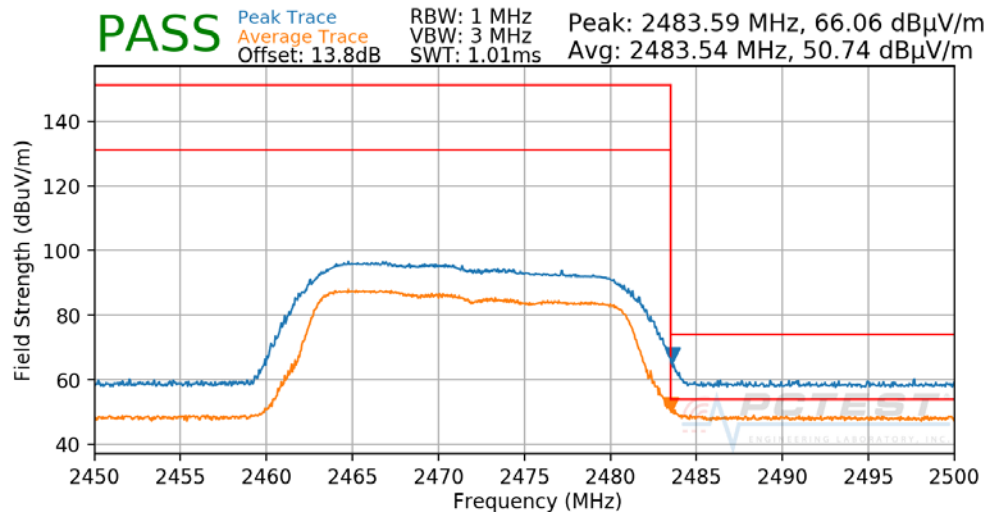
| | | | | |
|---|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1895 | PCTEST ENGINEERING LABORATORY, INC. | | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | | Page 132 of 142 |

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MSC0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



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

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2472MHz
Channel: 13



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

| | | | |
|---|---|----------------------------|---------------------------------|
| FCC ID: BCGA1895 |  MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1C1806220014-05.BCG | Test Dates: 7/31-10/15/2018 | EUT Type: Tablet Device | Page 133 of 142 |

7.8 Radiated Spurious Emissions Measurements – 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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-40 per Section 15.209 and RSS-Gen (8.9).

| Frequency | Field Strength [$\mu\text{V/m}$] | Measured Distance [Meters] |
|-------------------|---------------------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz) | 300 |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 |
| 1.705 – 30.00 MHz | 30 | 30 |
| 30.00 – 88.00 MHz | 100 | 3 |
| 88.00 – 216.0 MHz | 150 | 3 |
| 216.0 – 960.0 MHz | 200 | 3 |
| Above 960.0 MHz | 500 | 3 |

Table 7-40. 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

| | | | |
|---|---|----------------------------|---------------------------------|
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Test Setup

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

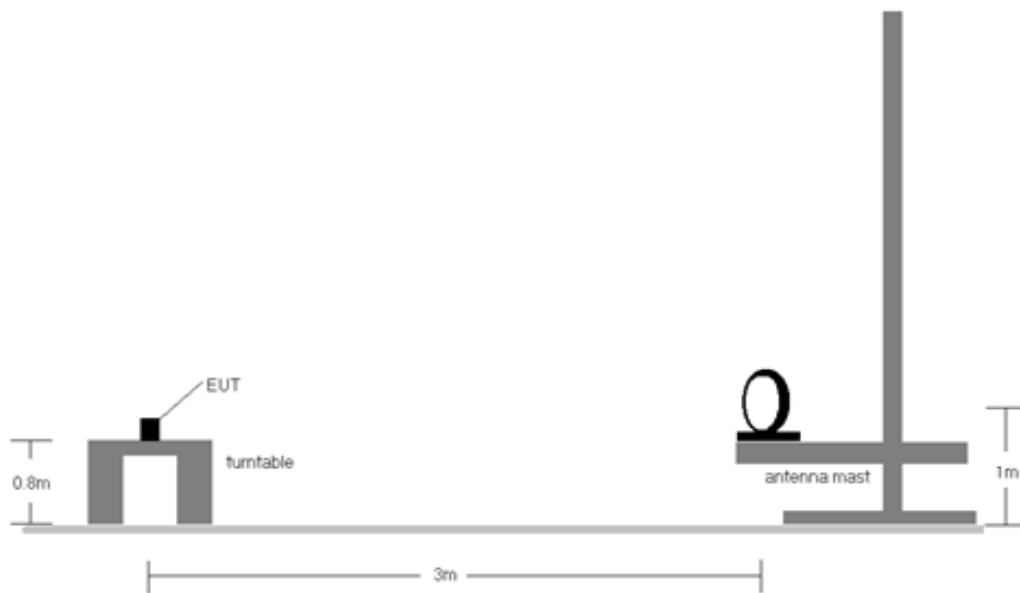


Figure 7-7. Radiated Test Setup < 30Mhz

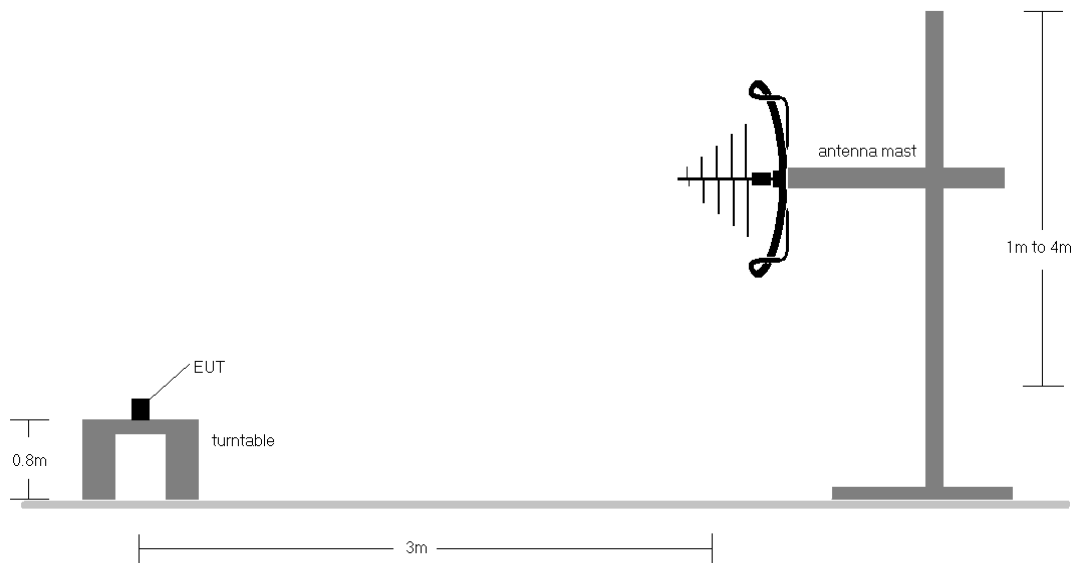


Figure 7-8. Radiated Test Setup < 1GHz

| | | | |
|--|---|-----------------------------------|--|
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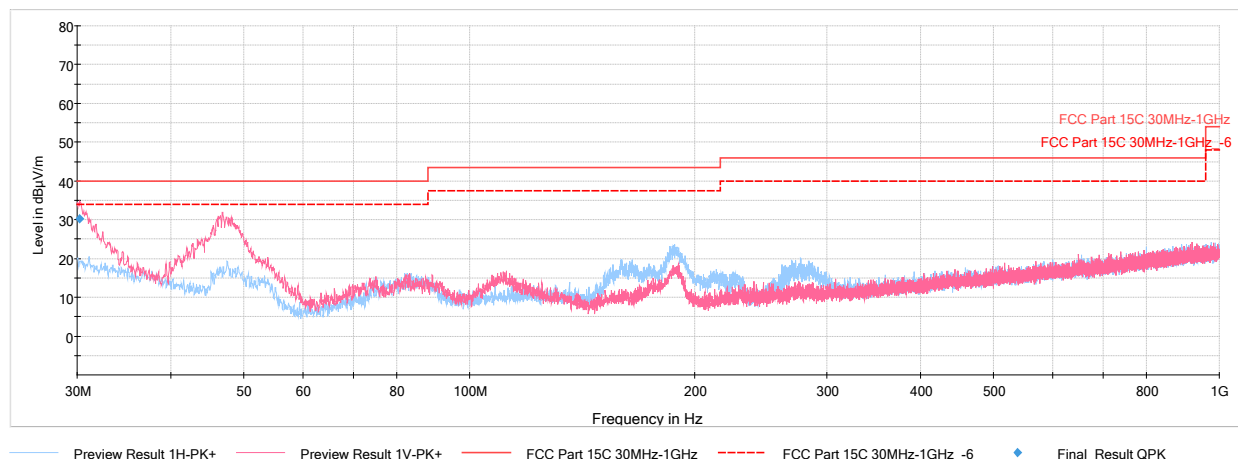
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-40.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
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. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

| | | | |
|--|---|-----------------------------------|--|
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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-188. Radiated Spurious Plot below 1GHz CDD Primary (802.11n – Ch. 6)

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|------------|-----------------|---------------------|----------------------------|-------------|-------------------------|----------------|-------------|
| 30.24 | Quasi-Peak | V | 100 | 288 | -9.90 | 34.73 | 40.00 | -5.27 |
| 46.83 | Peak | V | 100 | 99 | -19.76 | 31.91 | 40.00 | -8.09 |
| 59.10 | Peak | V | 100 | 252 | -23.37 | 13.10 | 40.00 | -26.90 |
| 111.04 | Peak | V | 100 | 300 | -17.98 | 16.73 | 43.52 | -26.79 |
| 187.53 | Peak | H | 100 | 247 | -20.00 | 23.39 | 43.52 | -20.13 |
| 276.67 | Peak | H | 100 | 311 | -16.90 | 20.18 | 46.02 | -25.84 |

Table 7-41. Radiated Spurious Emissions below 1GHz CDD Primary (802.11n – Ch. 6)

| | | | |
|---|---|----------------------------|---------------------------------|
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7.9 Line-Conducted Test Data

§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 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 7-42. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength 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 Field Strength 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.

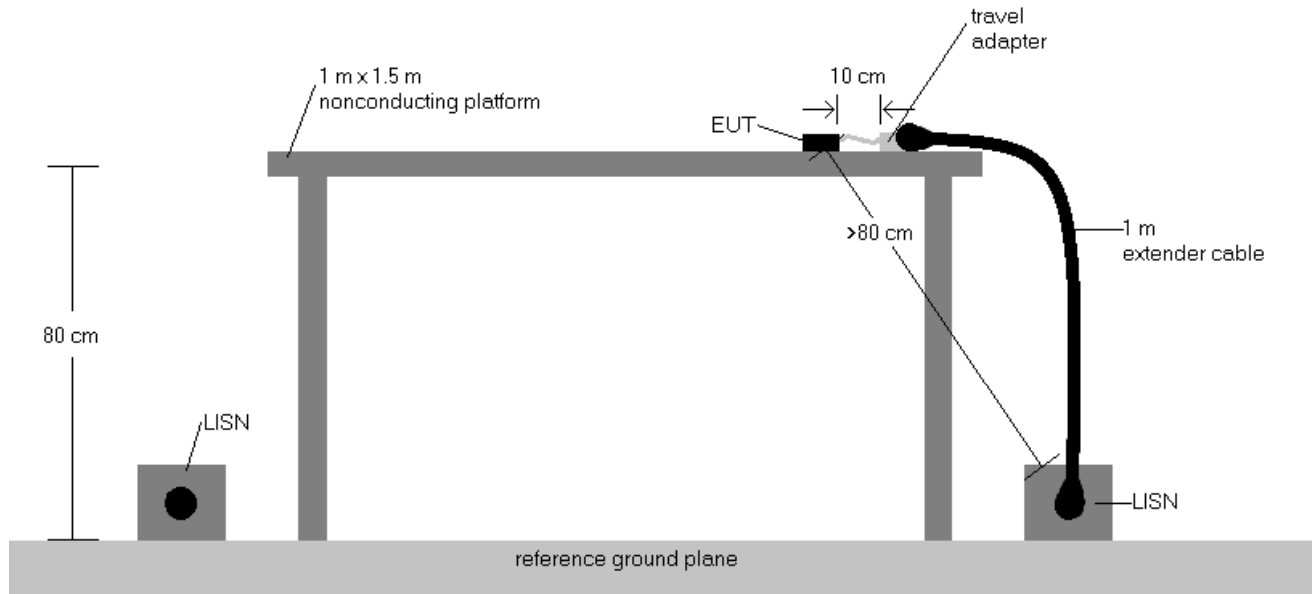
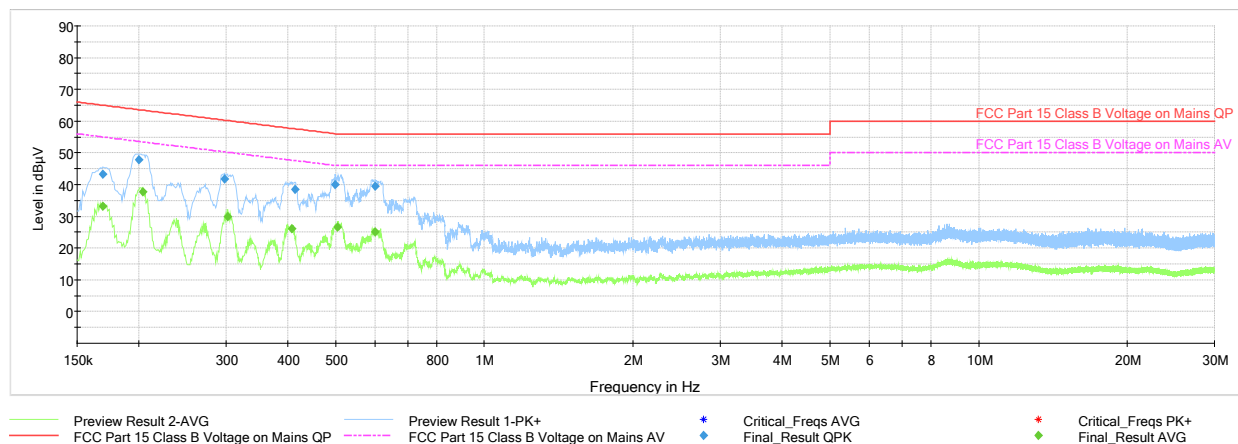


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

| | | | |
|---|---|----------------------------|---------------------------------|
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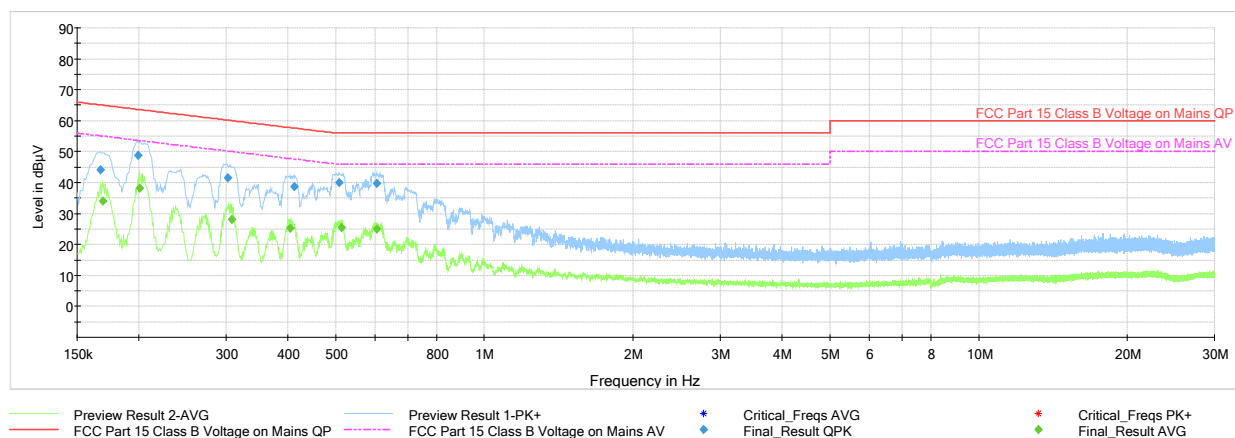


Plot 7-189. Line Conducted Plot with CDD Primary 802.11n, Ch6 (L1, with Adapter)

| Frequency MHz | Process State | QuasiPeak dBμV | Average dBμV | Limit dBμV | Margin dB | Bandwidth kHz | Line | PE |
|---------------|---------------|----------------|--------------|------------|-----------|---------------|------|-----|
| 0.169 | FINAL | --- | 33.24 | 55.01 | -21.77 | 9.00 | L1 | GND |
| 0.169 | FINAL | 43.34 | --- | 65.01 | -21.67 | 9.00 | L1 | GND |
| 0.200 | FINAL | 47.80 | --- | 63.61 | -15.81 | 9.00 | L1 | GND |
| 0.204 | FINAL | --- | 37.61 | 53.45 | -15.84 | 9.00 | L1 | GND |
| 0.298 | FINAL | 41.72 | --- | 60.30 | -18.58 | 9.00 | L1 | GND |
| 0.302 | FINAL | --- | 29.83 | 50.19 | -20.36 | 9.00 | L1 | GND |
| 0.407 | FINAL | --- | 26.01 | 47.71 | -21.70 | 9.00 | L1 | GND |
| 0.414 | FINAL | 38.60 | --- | 57.57 | -18.97 | 9.00 | L1 | GND |
| 0.499 | FINAL | 40.06 | --- | 56.02 | -15.96 | 9.00 | L1 | GND |
| 0.505 | FINAL | --- | 26.69 | 46.00 | -19.31 | 9.00 | L1 | GND |
| 0.601 | FINAL | --- | 25.03 | 46.00 | -20.97 | 9.00 | L1 | GND |
| 0.602 | FINAL | 39.60 | --- | 56.00 | -16.40 | 9.00 | L1 | GND |

Table 7-43. Line Conducted Data with CDD Primary 802.11n, Ch6 (L1, with Adapter)

| | | | |
|--|---|-----------------------------------|--|
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Plot 7-190. Line Conducted Plot with CDD Primary 802.11n, Ch6 (N, with Adapter)

| Frequency MHz | Process State | QuasiPeak dBμV | Average dBμV | Limit dBμV | Margin dB | Bandwidth kHz | Line | PE |
|---------------|---------------|----------------|--------------|------------|-----------|---------------|------|-----|
| 0.167 | FINAL | 44.21 | --- | 65.11 | -20.90 | 9.00 | N | GND |
| 0.169 | FINAL | --- | 33.95 | 55.01 | -21.06 | 9.00 | N | GND |
| 0.199 | FINAL | 48.88 | --- | 63.65 | -14.77 | 9.00 | N | GND |
| 0.201 | FINAL | --- | 38.22 | 53.57 | -15.35 | 9.00 | N | GND |
| 0.302 | FINAL | 41.51 | --- | 60.19 | -18.68 | 9.00 | N | GND |
| 0.308 | FINAL | --- | 28.19 | 50.02 | -21.83 | 9.00 | N | GND |
| 0.404 | FINAL | --- | 25.27 | 47.77 | -22.50 | 9.00 | N | GND |
| 0.412 | FINAL | 38.61 | --- | 57.61 | -19.00 | 9.00 | N | GND |
| 0.509 | FINAL | 40.03 | --- | 56.00 | -15.97 | 9.00 | N | GND |
| 0.513 | FINAL | --- | 25.50 | 46.00 | -20.50 | 9.00 | N | GND |
| 0.605 | FINAL | --- | 24.86 | 46.00 | -21.14 | 9.00 | N | GND |
| 0.605 | FINAL | 39.70 | --- | 56.00 | -16.30 | 9.00 | N | GND |

Table 7-44. Line Conducted Data with CDD Primary 802.11n, Ch6 (N, with Adapter)

| | | | |
|--|---|-----------------------------------|--|
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Inc. Tablet Device FCC ID: BCGA1895** 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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