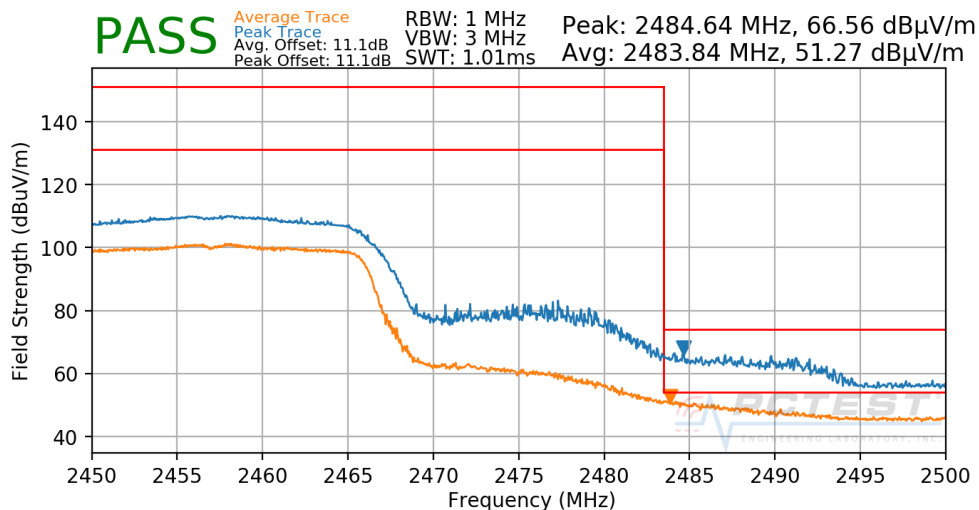
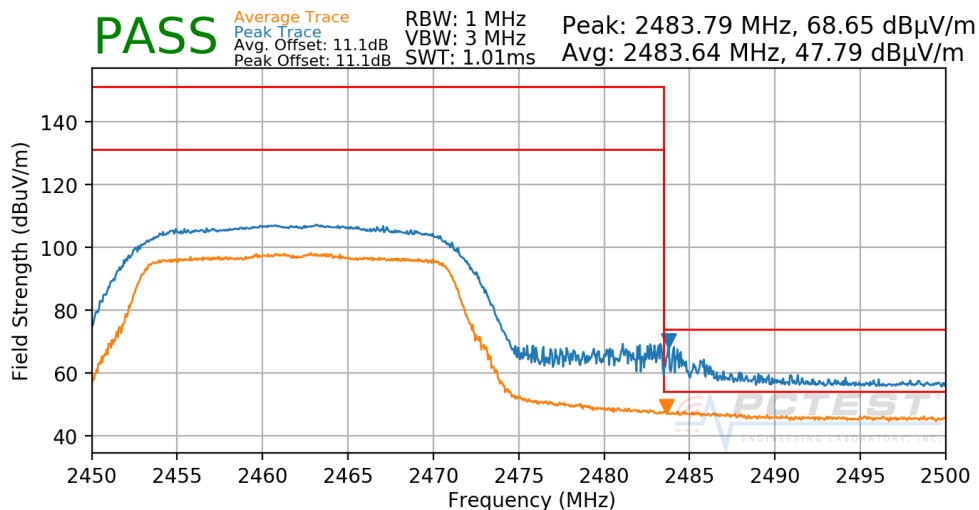


Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-154. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 PRIMARY

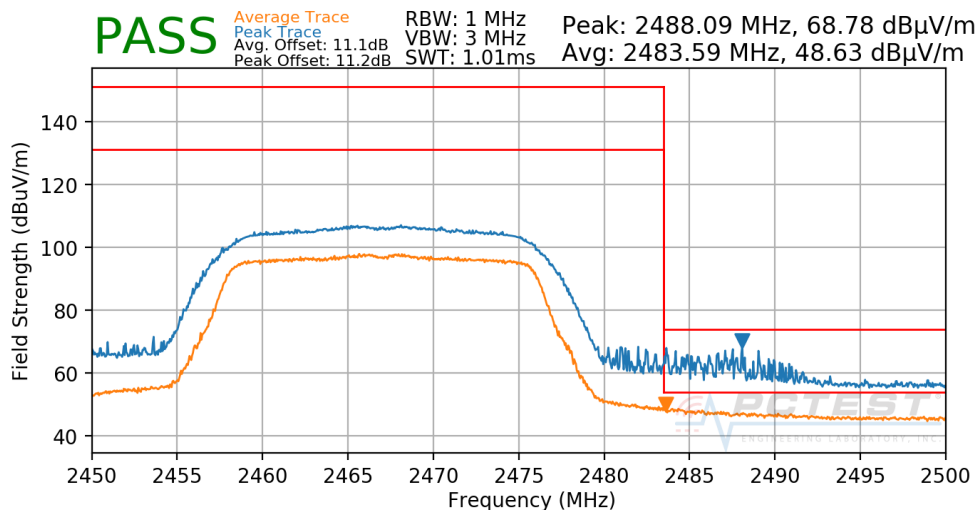
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-155. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 PRIMARY

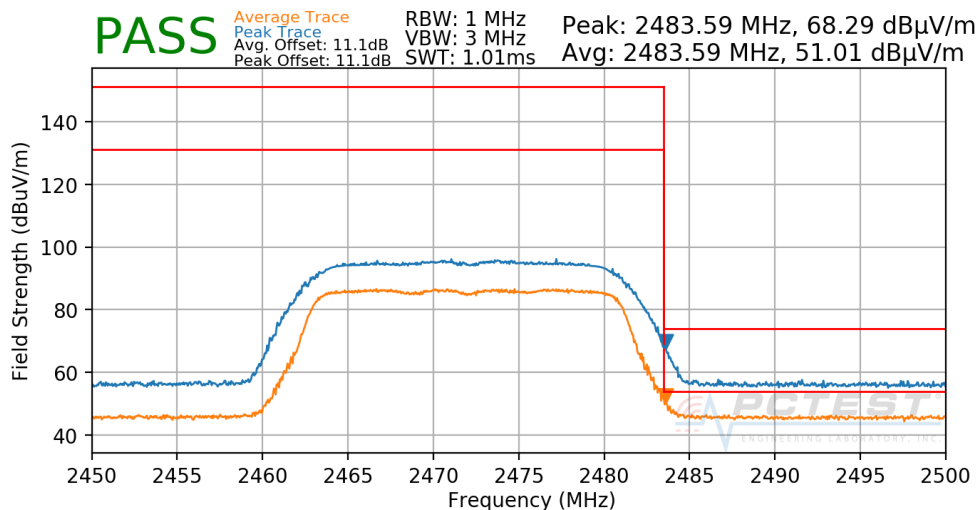
FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 124 of 148

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



Plot 7-156. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 PRIMARY

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



Plot 7-157. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 PRIMARY

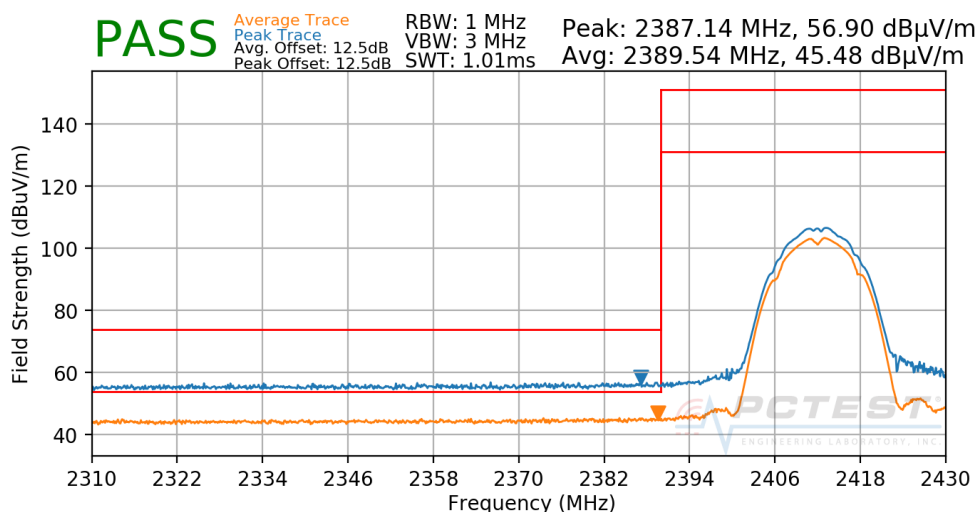
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device	Page 125 of 148

7.7.7 SISO CORE 0 Diversity Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

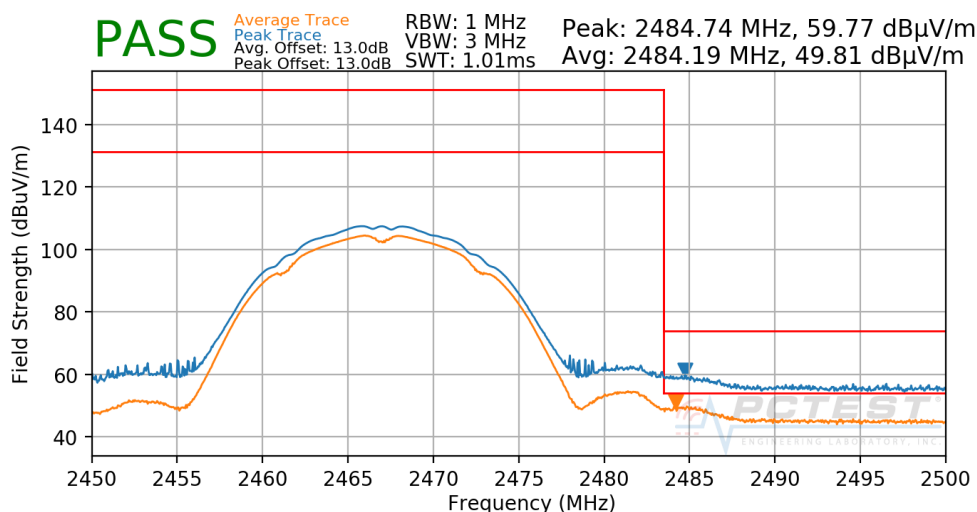
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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



Plot 7-158. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 DIVERSITY

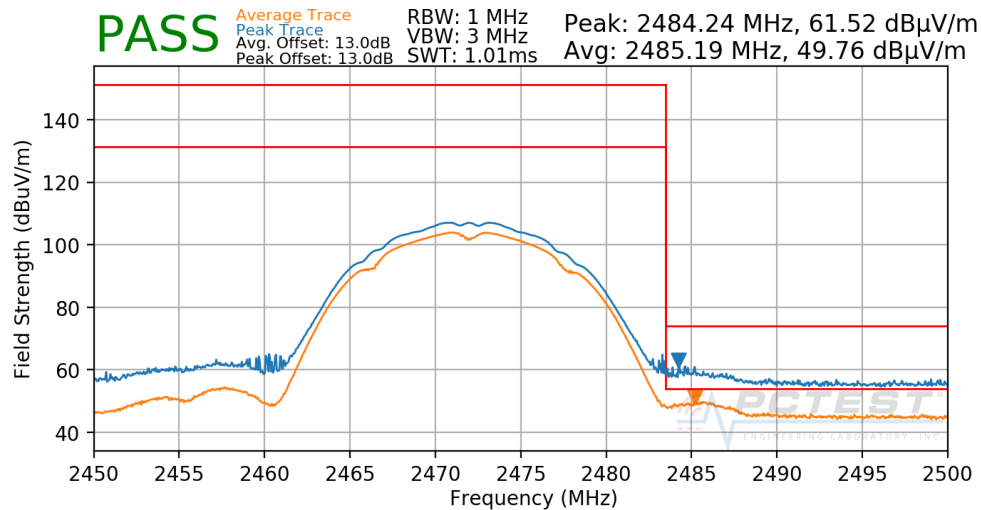
Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-159. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

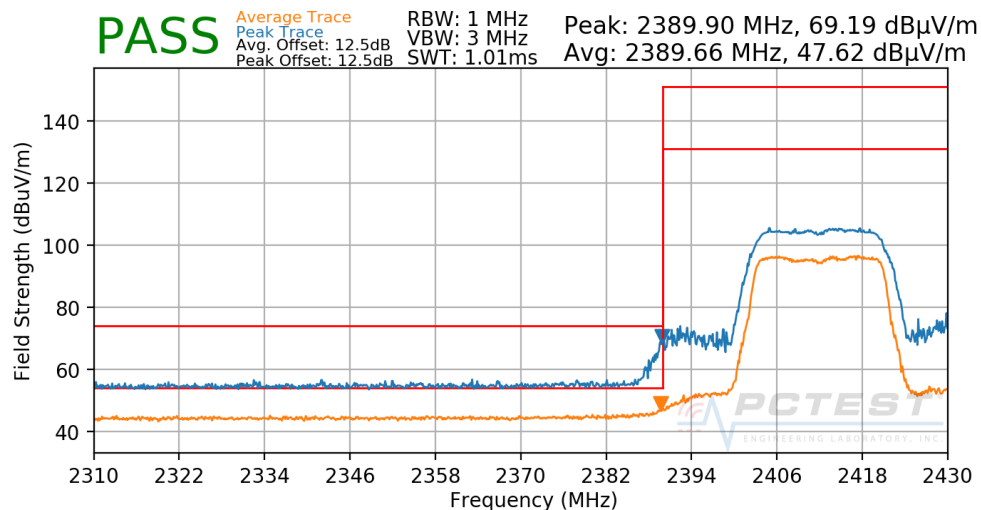
FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 126 of 148

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



Plot 7-160. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

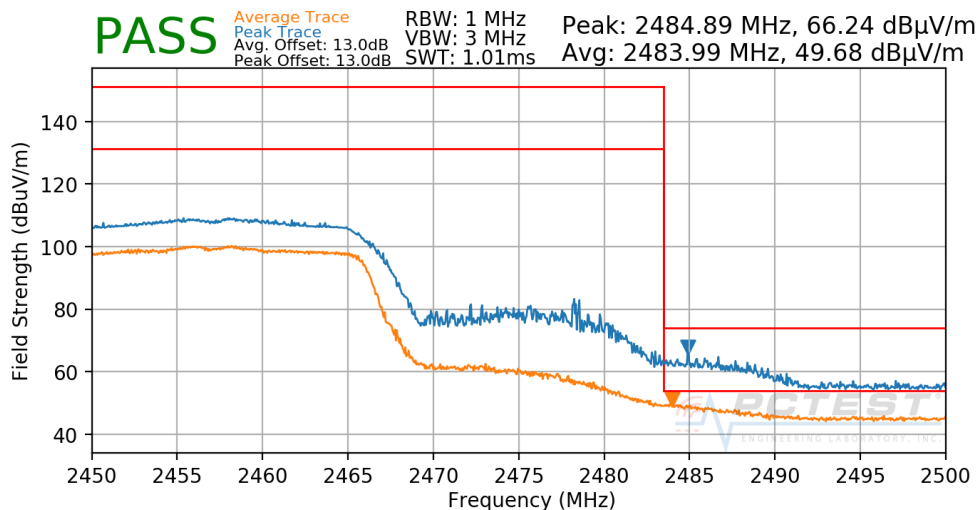
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-161. Radiated Restricted Lower Band Edge Measurement SISO CORE 0 DIVERSITY

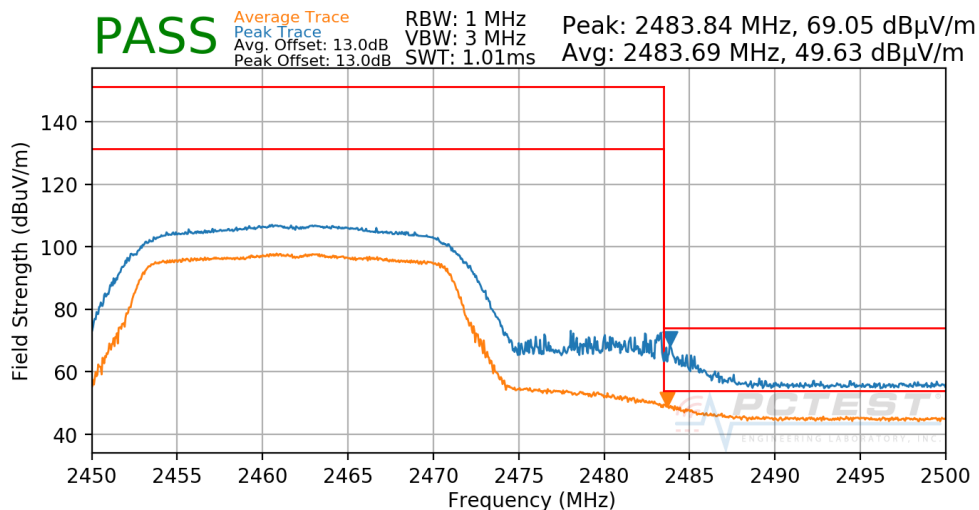
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2457MHz
Channel: 10



Plot 7-162. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

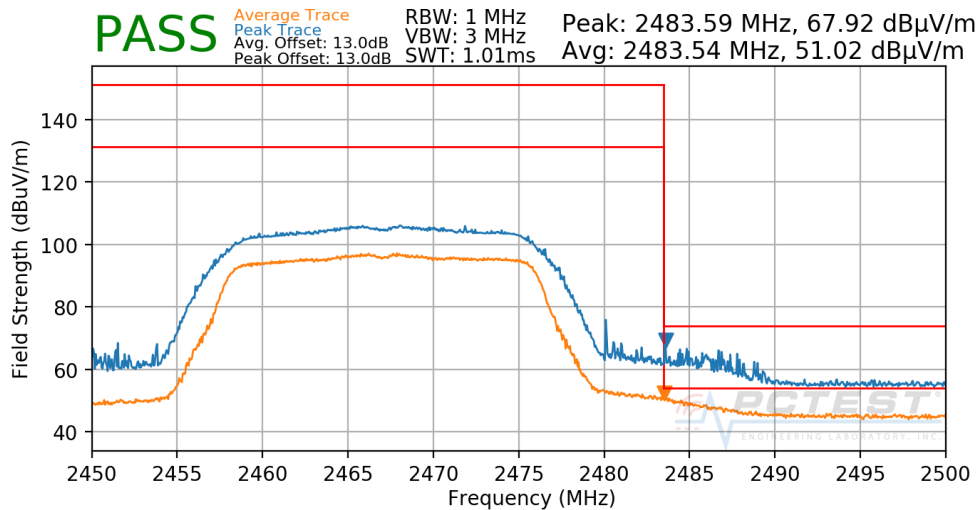
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-163. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

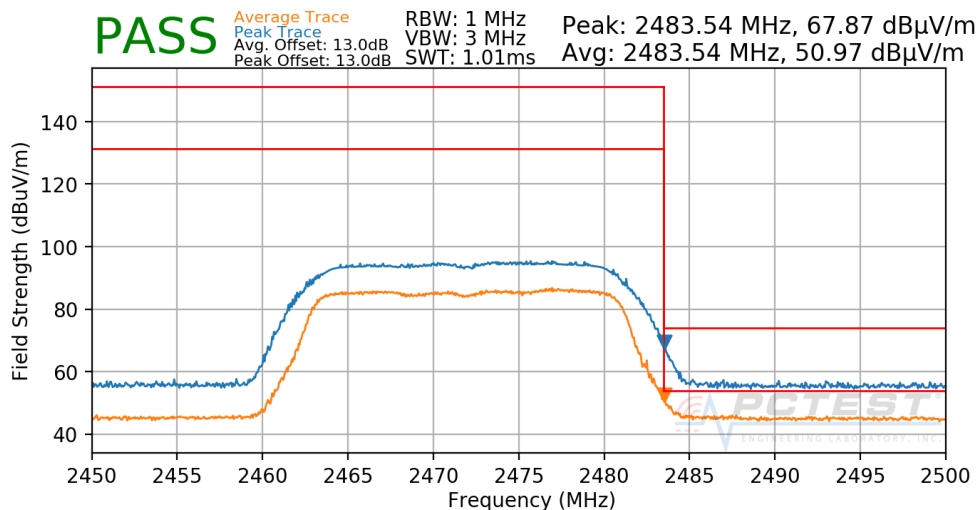
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-164. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

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



Plot 7-165. Radiated Restricted Upper Band Edge Measurement SISO CORE 0 DIVERSITY

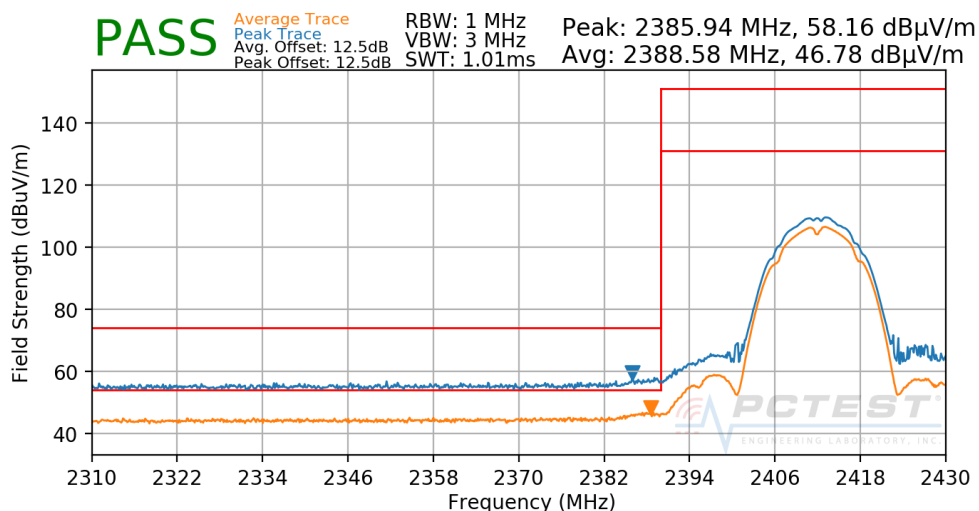
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device	Page 129 of 148

7.7.8 SISO CORE 1 Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

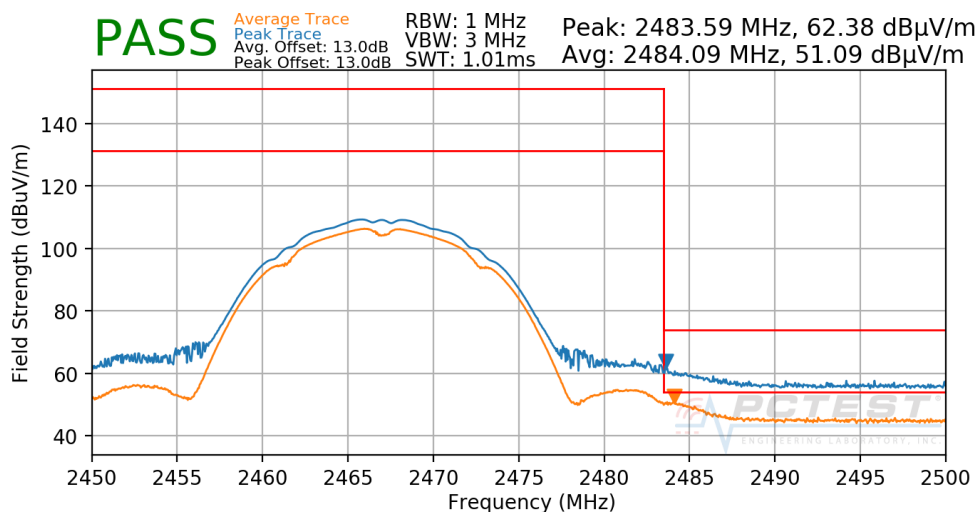
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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



Plot 7-166. Radiated Restricted Lower Band Edge Measurement SISO CORE 1

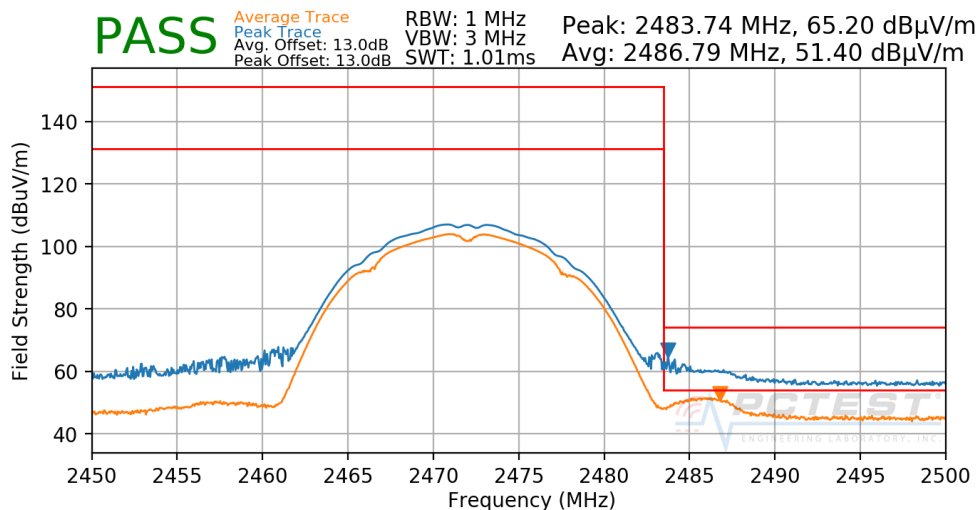
Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-167. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

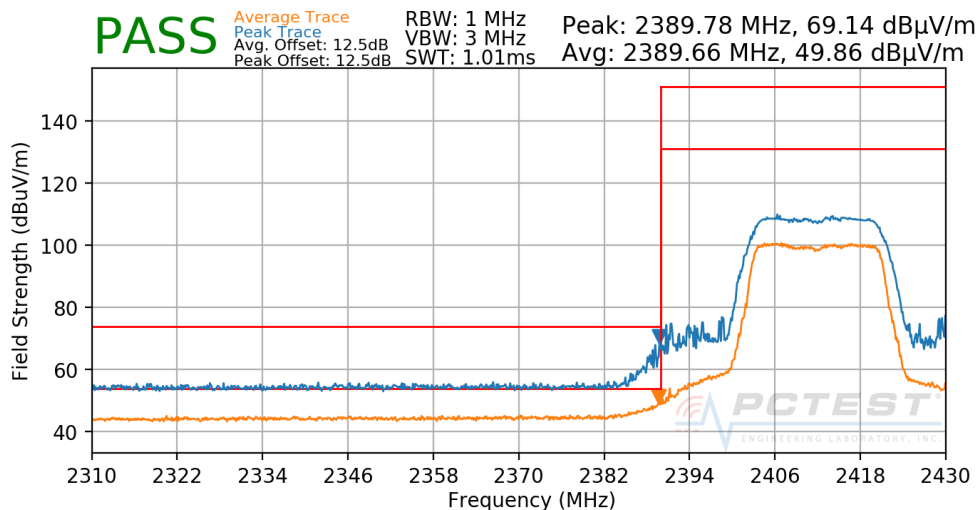
FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 130 of 148

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



Plot 7-168. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

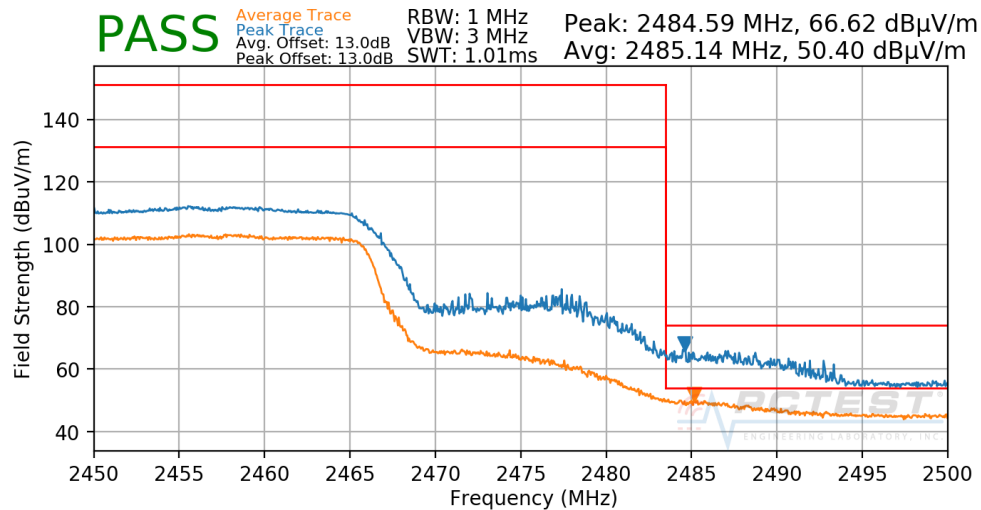
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1



Plot 7-169. Radiated Restricted Lower Band Edge Measurement SISO CORE 1

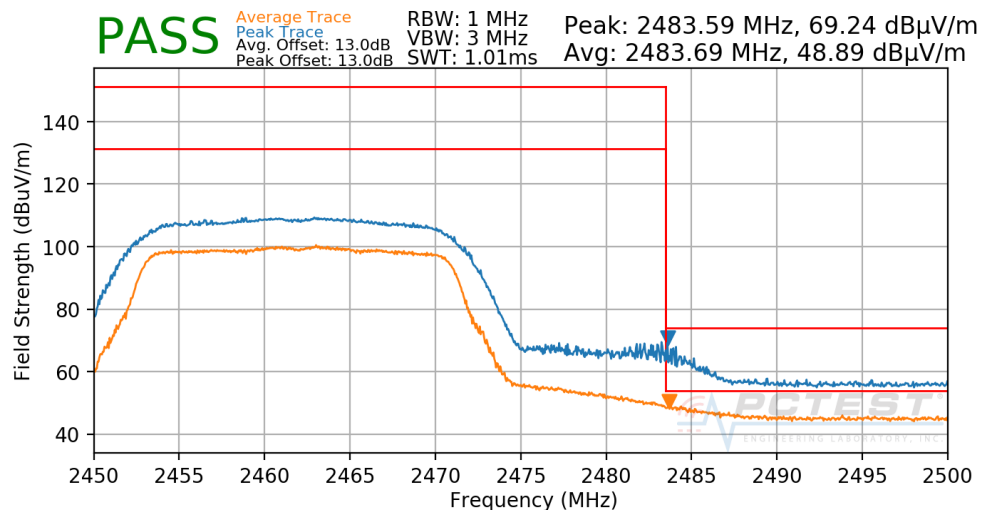
FCC ID: BCGA2124	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device	Page 131 of 148

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



Plot 7-170. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

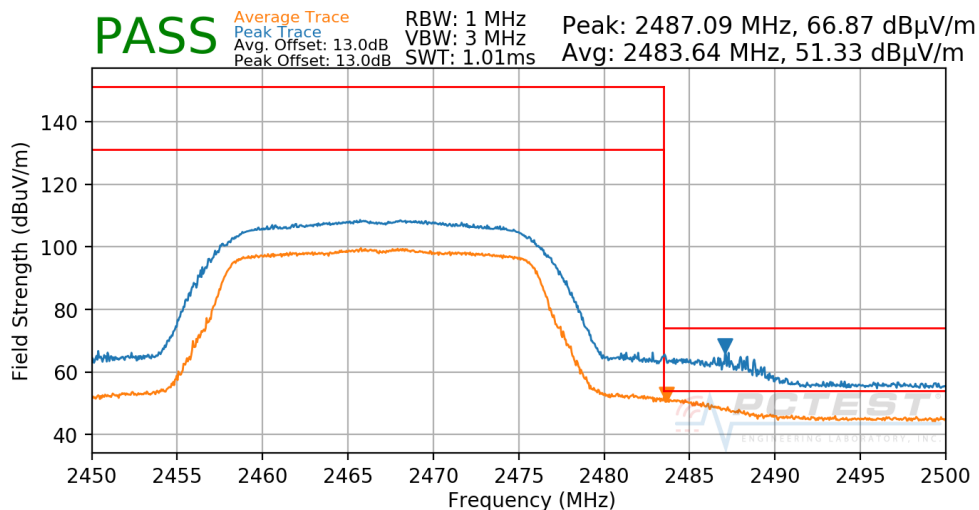
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-171. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

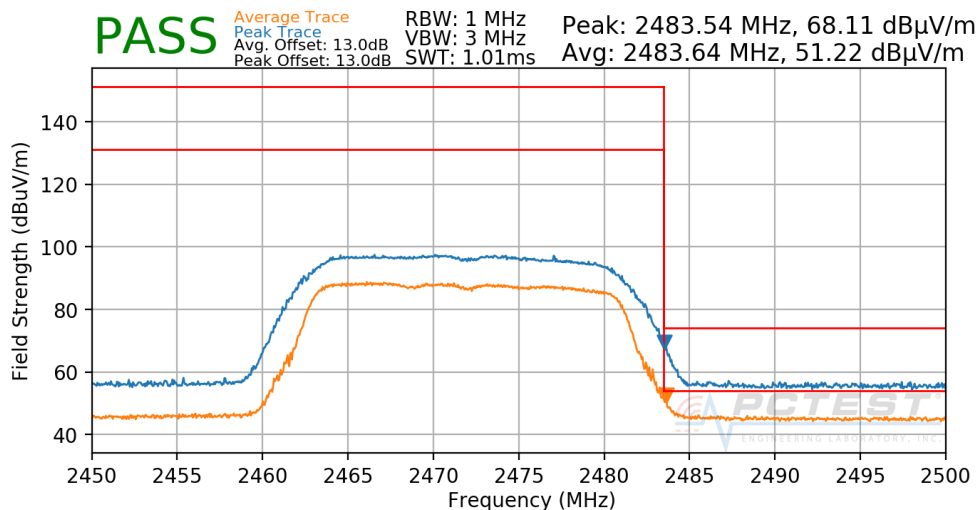
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-172. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

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



Plot 7-173. Radiated Restricted Upper Band Edge Measurement SISO CORE 1

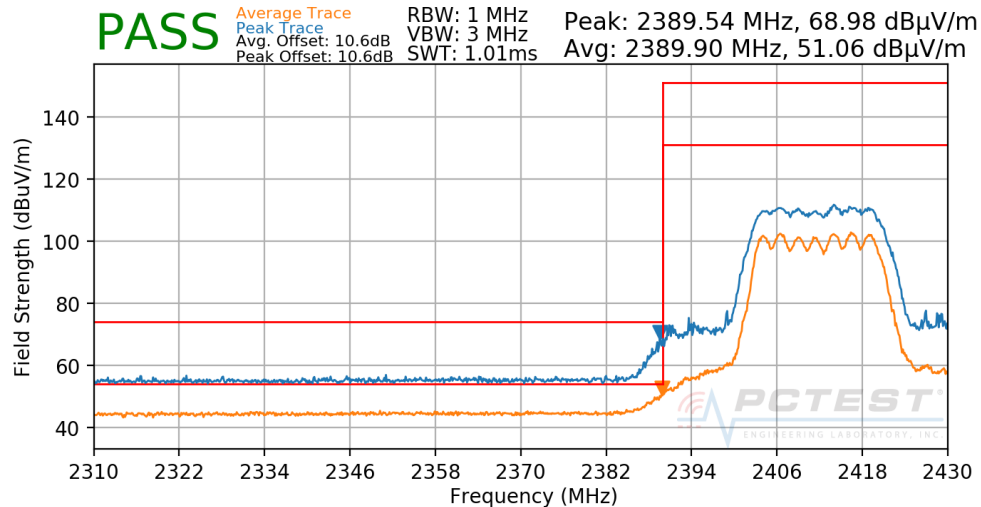
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device	Page 133 of 148

7.7.9 CDD PRIMARY Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

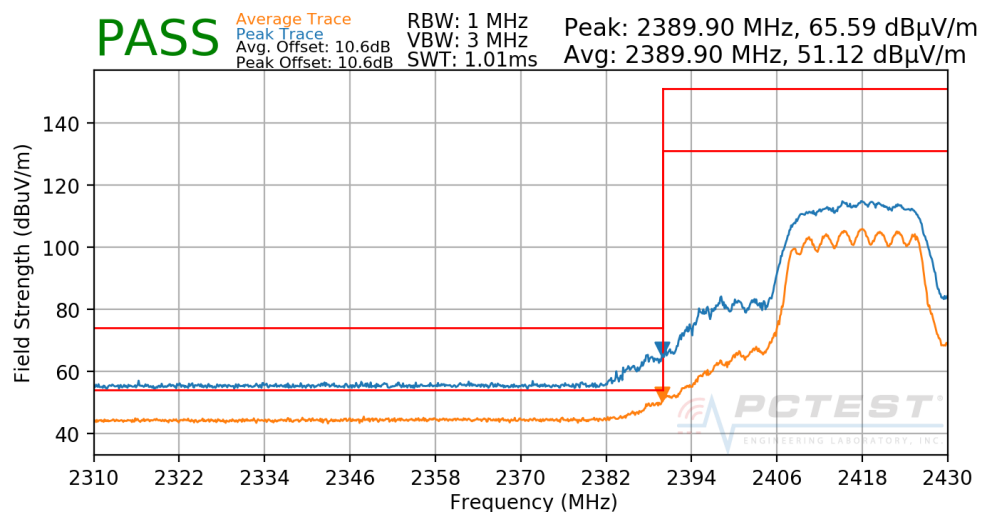
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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



Plot 7-174. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY

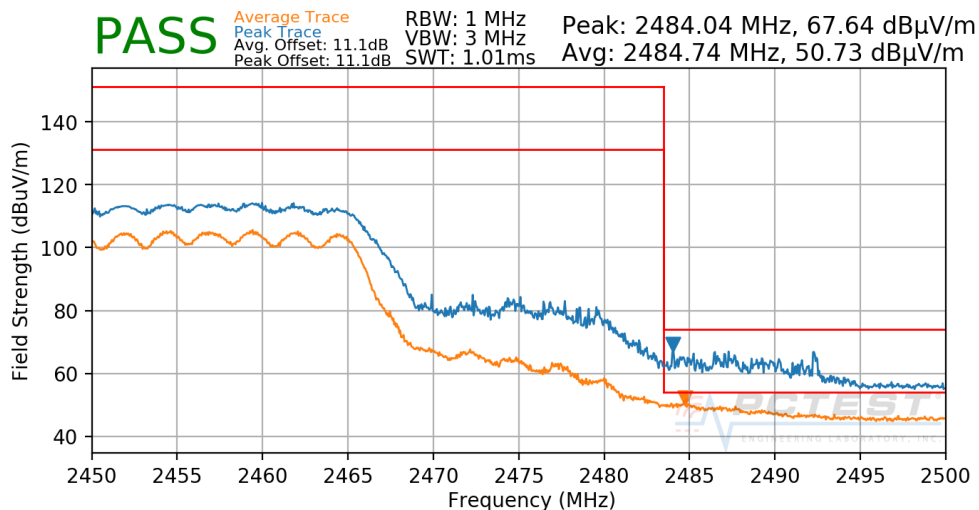
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-175. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY

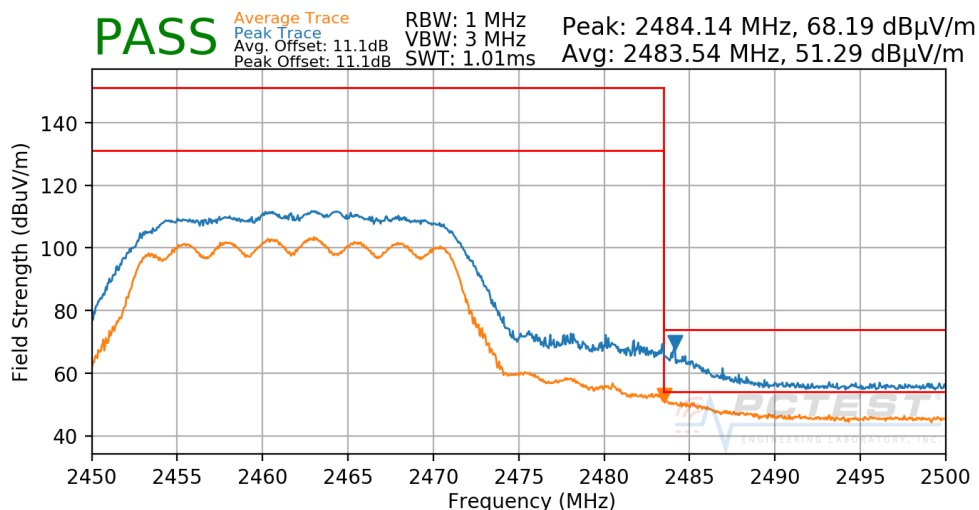
FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 134 of 148

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



Plot 7-176. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY

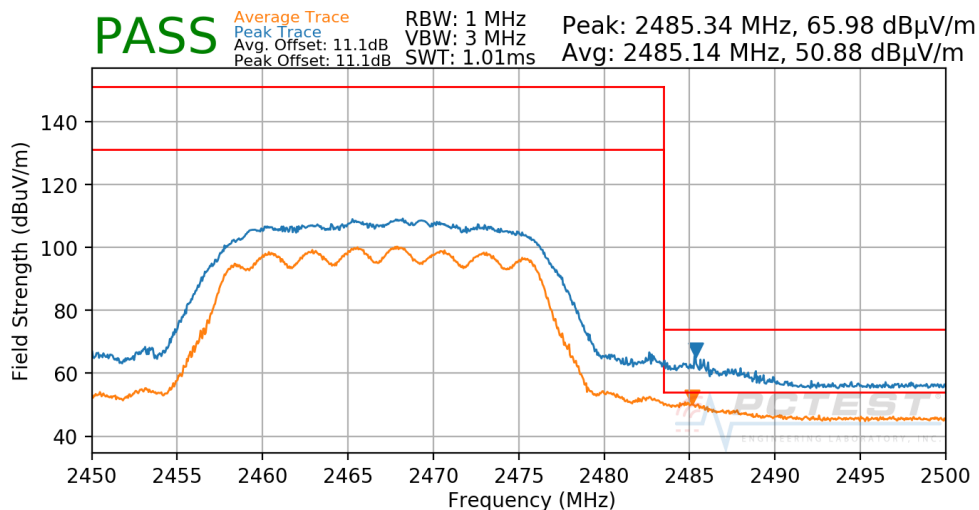
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-177. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY

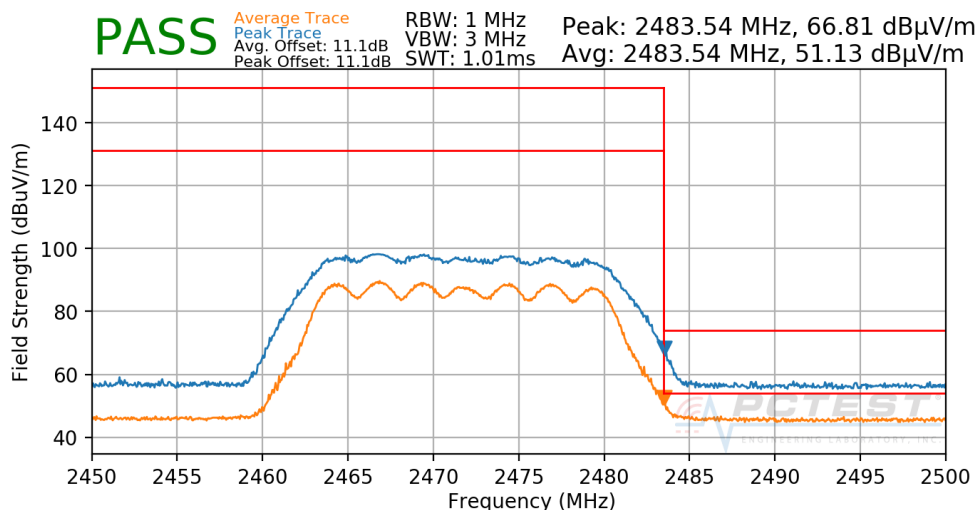
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-178. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY

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



Plot 7-179. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY

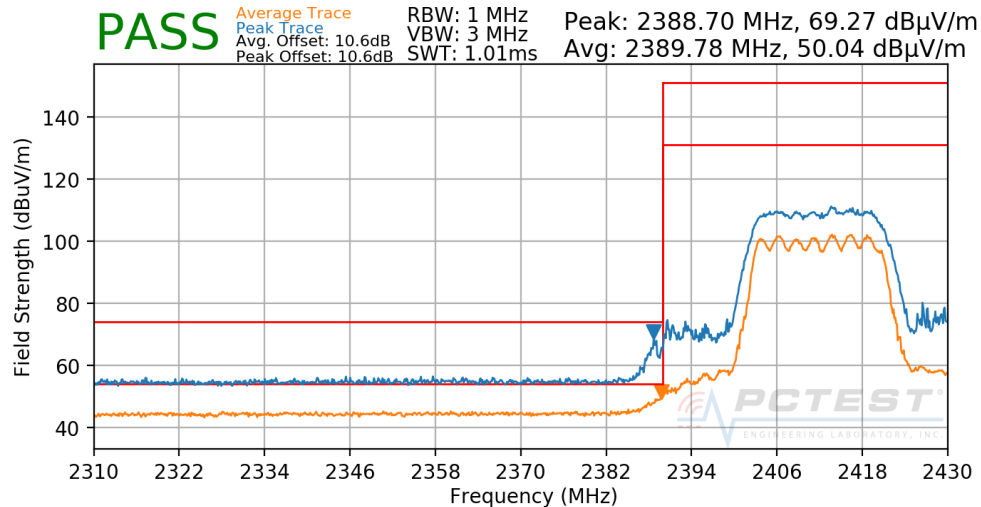
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device	Page 136 of 148

7.7.10 CDD DIVERSITY Radiated Restricted Band Edge Measurements

§15.205 §15.209; RSS-Gen [8.9]

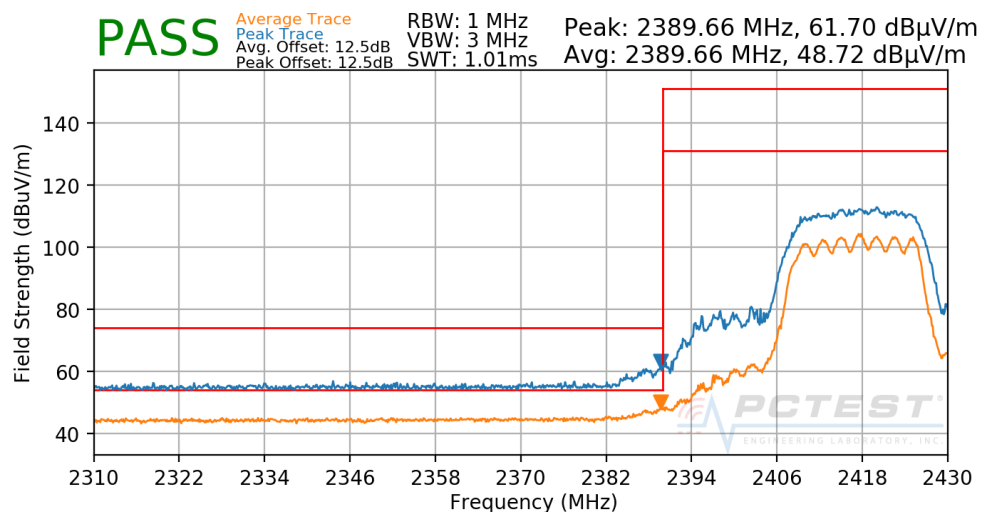
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

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



Plot 7-180. Radiated Restricted Lower Band Edge Measurement CDD DIVERSITY

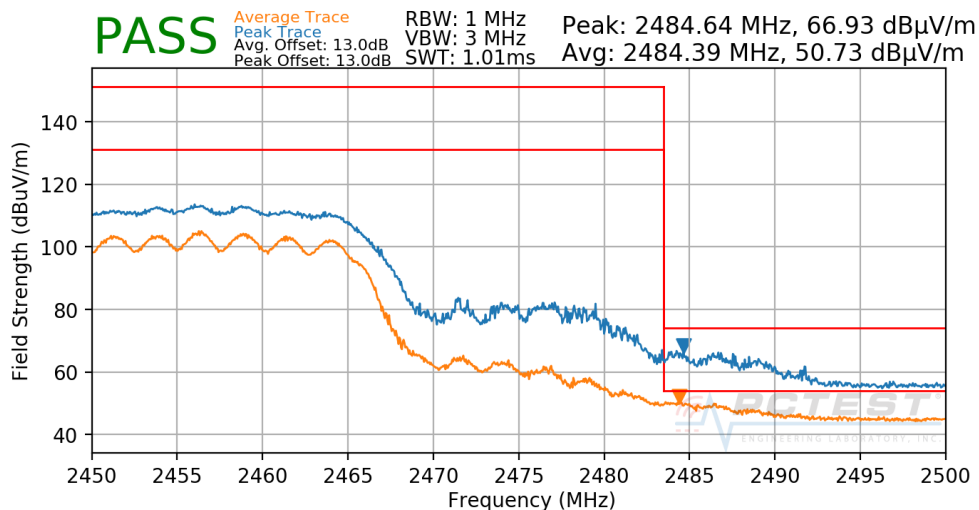
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-181. Radiated Restricted Lower Band Edge Measurement CDD DIVERSITY

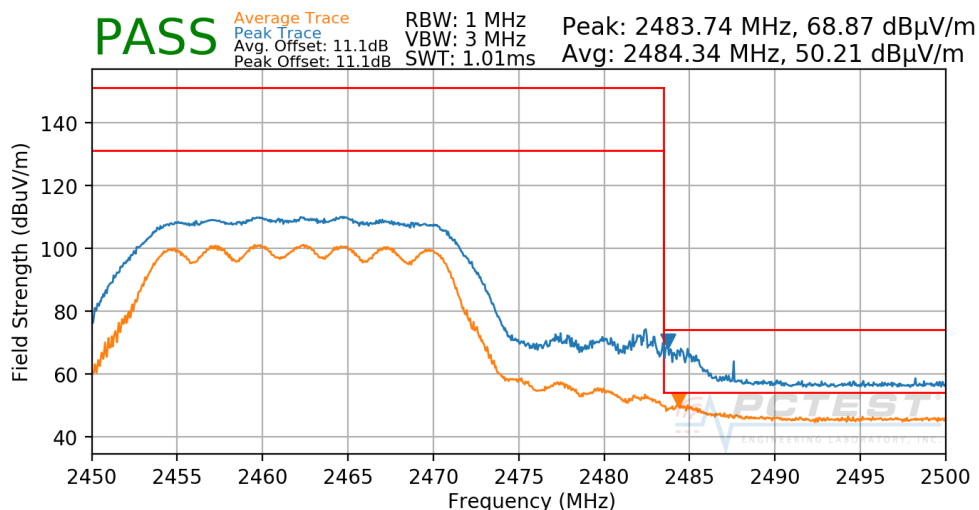
FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 137 of 148

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



Plot 7-182. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY

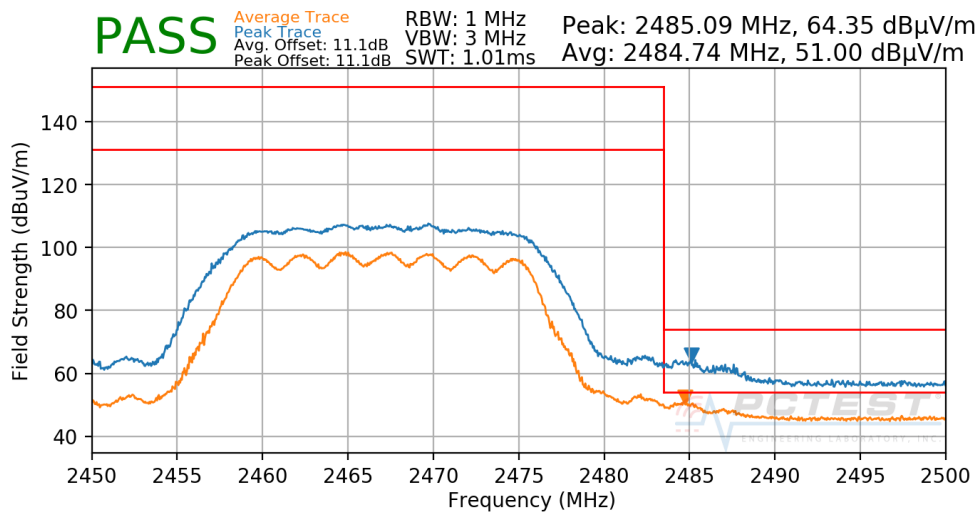
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11



Plot 7-183. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY

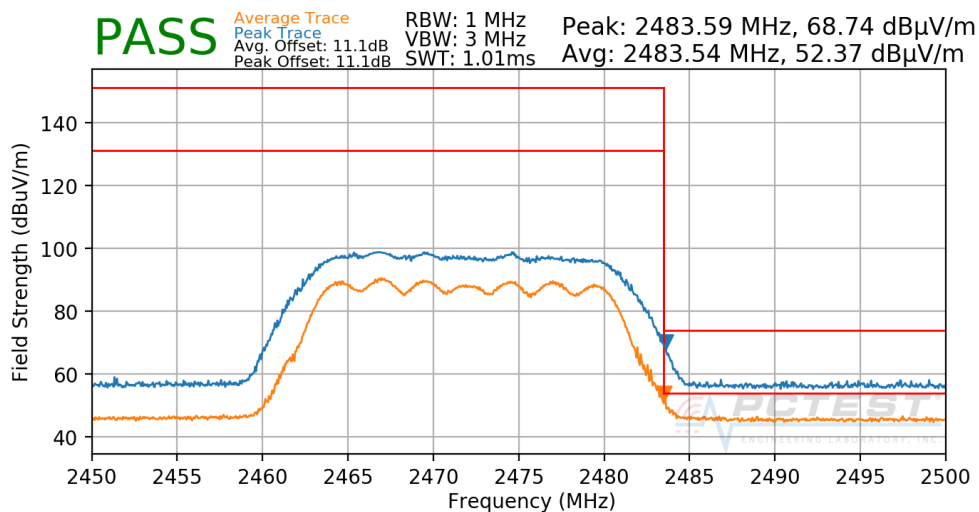
FCC ID: BCGA2124	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2467MHz
Channel: 12



Plot 7-184. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY

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



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY

FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080027-05.BCG	Test Dates: 12/19/2018-02/07/2019	EUT Type: Tablet Device		Page 139 of 148

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.

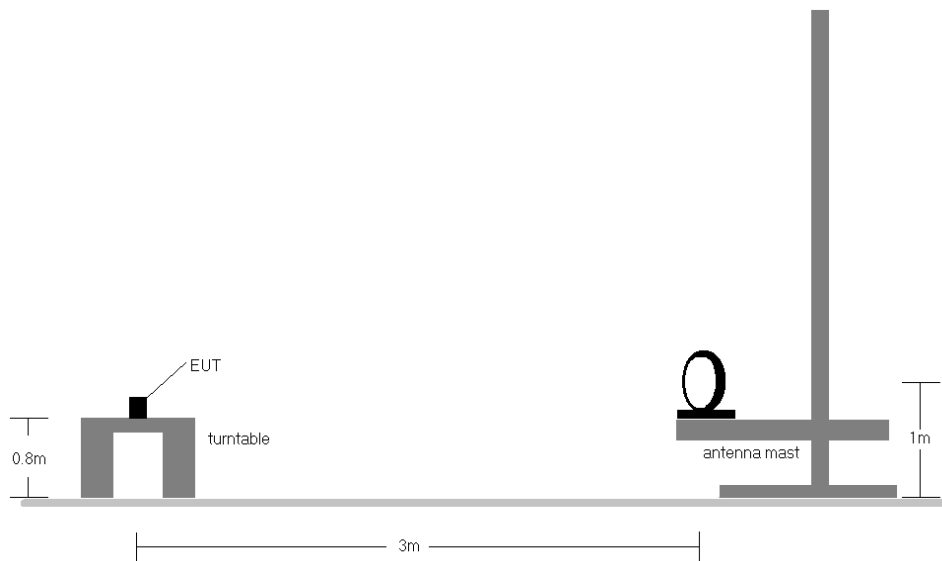


Figure 7-7. Radiated Test Setup < 30Mhz

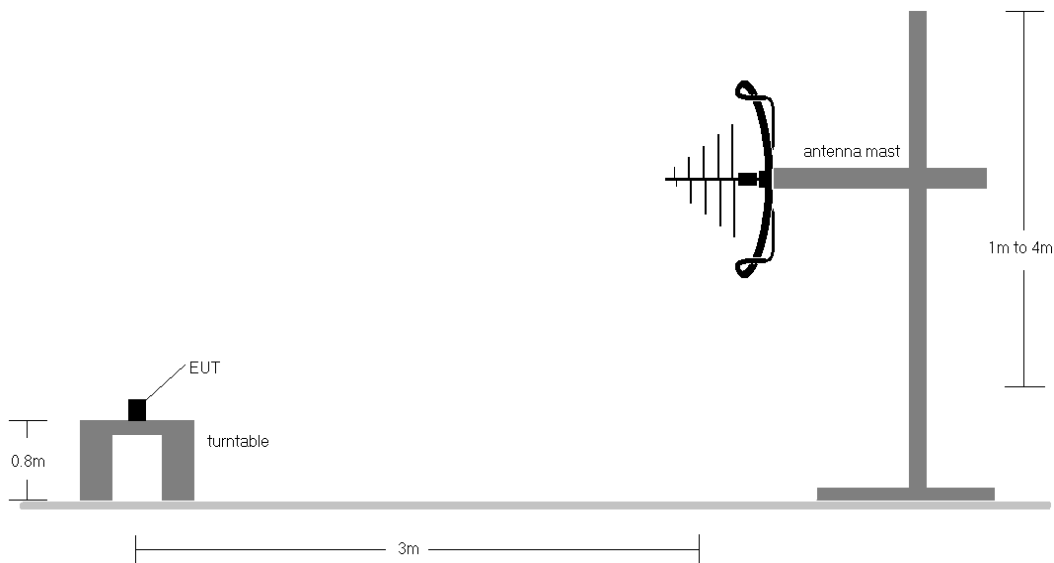


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2124	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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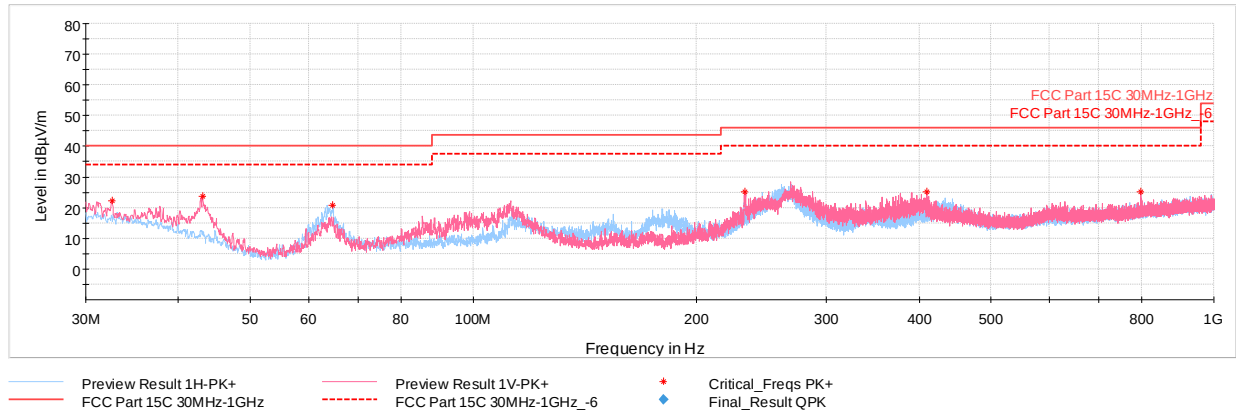
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-40.
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 on emissions within 6dB of limit. 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.
10. All antenna configs were investigated and only the worst case is reported.

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CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-186. Radiated Spurious Plot below 1GHz 802.11n CDD Ch.6, with Laptop

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]
32.57	Max Peak	V	100	219	-74.43	-10.41	22.16	40.00	-17.84
43.14	Max Peak	V	100	55	-66.82	-16.32	23.86	40.00	-16.14
64.68	Max Peak	H	250	162	-65.41	-20.92	20.67	40.00	-19.33
232.54	Max Peak	V	100	274	-64.20	-17.65	25.15	46.02	-20.87
409.42	Max Peak	V	100	219	-69.09	-12.62	25.29	46.02	-20.73
796.93	Max Peak	V	100	248	-75.91	-5.77	25.32	46.02	-20.70

Table 7-41. Radiated Spurious Emissions below 1GHz 802.11n CDD Ch.6, with Laptop

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7.9 AC 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.

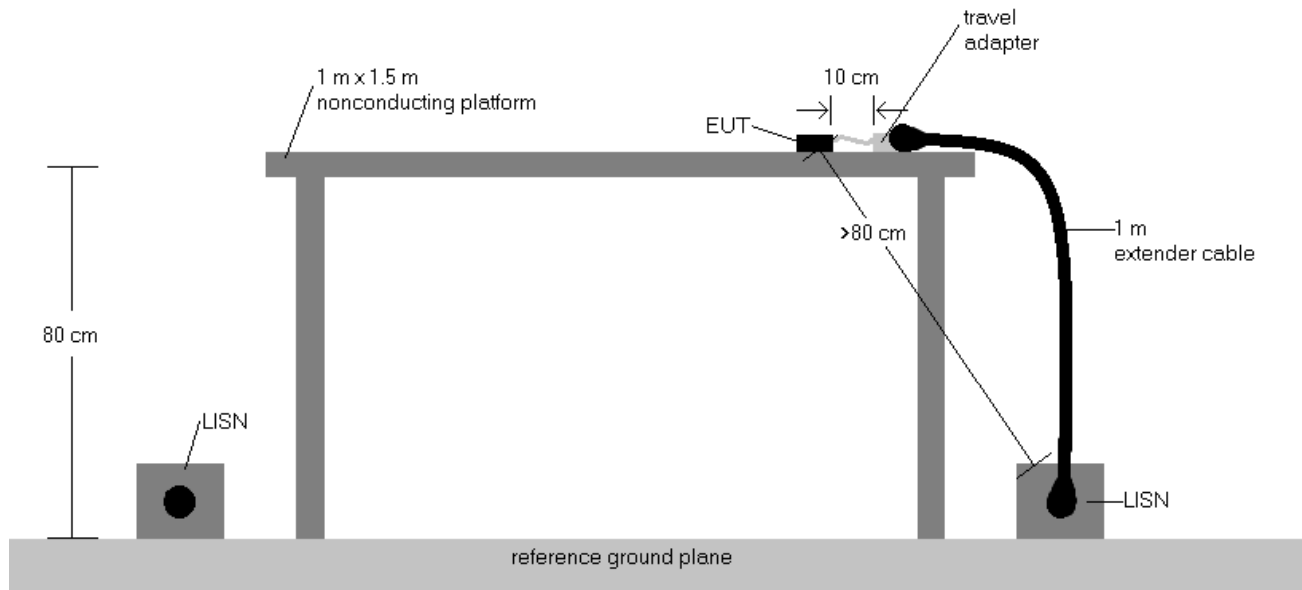
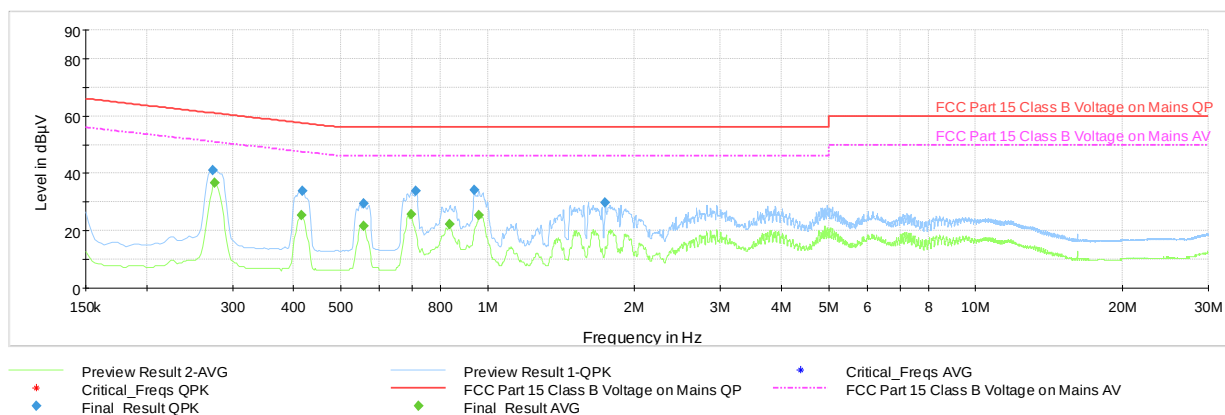


Figure 7-9. Test Instrument & Measurement Setup

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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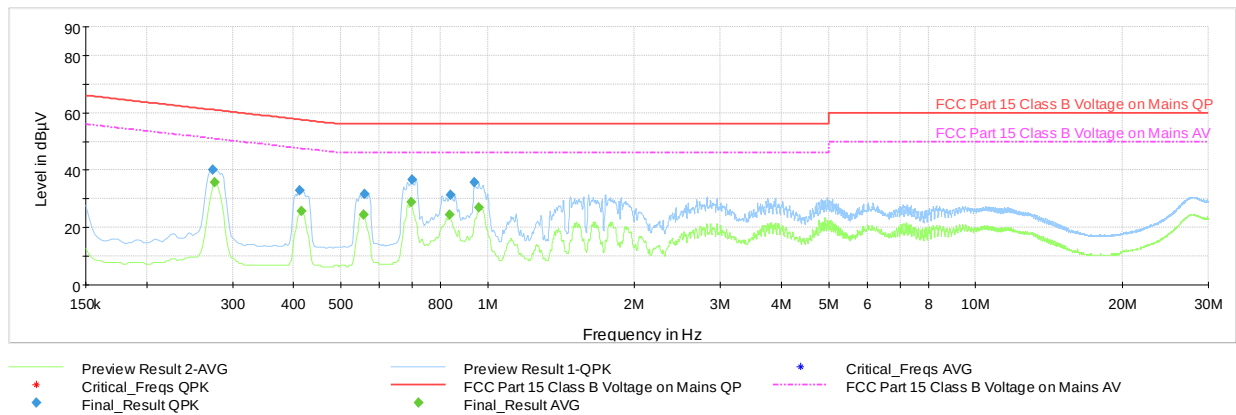


Plot 7-187. Line Conducted Plot with 802.11n CDD Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.274	FINAL	41.2	—	61.00	-19.79	L1	GND
0.276	FINAL	—	36.58	50.94	-14.35	L1	GND
0.416	FINAL	—	25.31	47.54	-22.23	L1	GND
0.418	FINAL	33.7	—	57.49	-23.77	L1	GND
0.557	FINAL	29.4	—	56.00	-26.61	L1	GND
0.557	FINAL	—	21.77	46.00	-24.23	L1	GND
0.697	FINAL	—	25.80	46.00	-20.20	L1	GND
0.713	FINAL	33.8	—	56.00	-22.22	L1	GND
0.836	FINAL	—	22.39	46.00	-23.62	L1	GND
0.940	FINAL	34.2	—	56.00	-21.79	L1	GND
0.960	FINAL	—	25.38	46.00	-20.62	L1	GND
1.743	FINAL	29.9	—	56.00	-26.08	L1	GND

Table 7-43. Line Conducted Measurements with 802.11n CDD Ch.6 (L1, with AC/DC Adapter)

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Plot 7-188. Line Conducted Plot with 802.11n CDD Ch.6 (N, WITH AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.274	FINAL	40.2	—	61.00	-20.82	N	GND
0.276	FINAL	—	35.77	50.94	-15.17	N	GND
0.411	FINAL	32.8	—	57.63	-24.79	N	GND
0.416	FINAL	—	25.81	47.54	-21.73	N	GND
0.557	FINAL	—	24.45	46.00	-21.55	N	GND
0.560	FINAL	31.8	—	56.00	-24.24	N	GND
0.697	FINAL	—	28.77	46.00	-17.23	N	GND
0.699	FINAL	36.6	—	56.00	-19.44	N	GND
0.836	FINAL	—	24.61	46.00	-21.39	N	GND
0.839	FINAL	31.3	—	56.00	-24.72	N	GND
0.940	FINAL	35.7	—	56.00	-20.32	N	GND
0.960	FINAL	—	27.03	46.00	-18.97	N	GND

Table 7-44. Line Conducted Measurements with 802.11n CDD Ch.6 (N, with AC/DC Adapter)

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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: BCGA2124** 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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