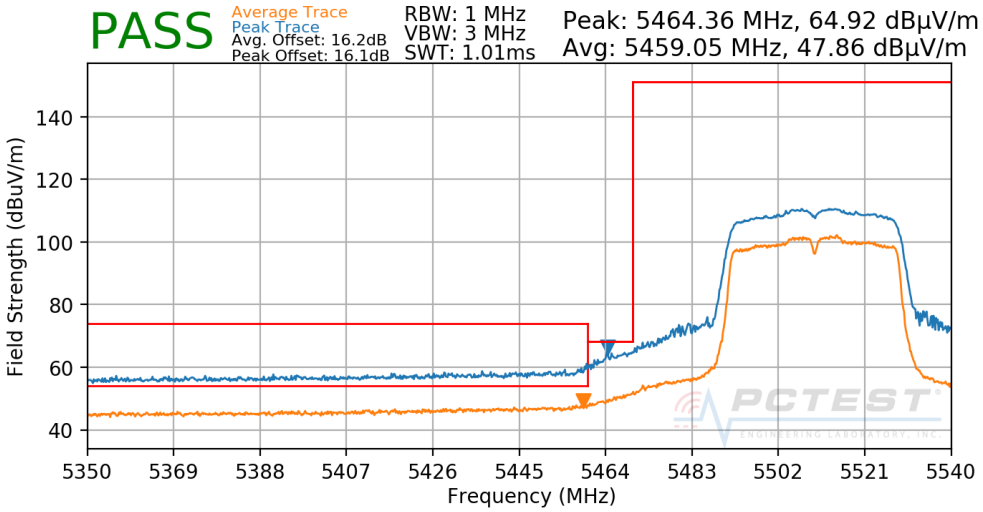
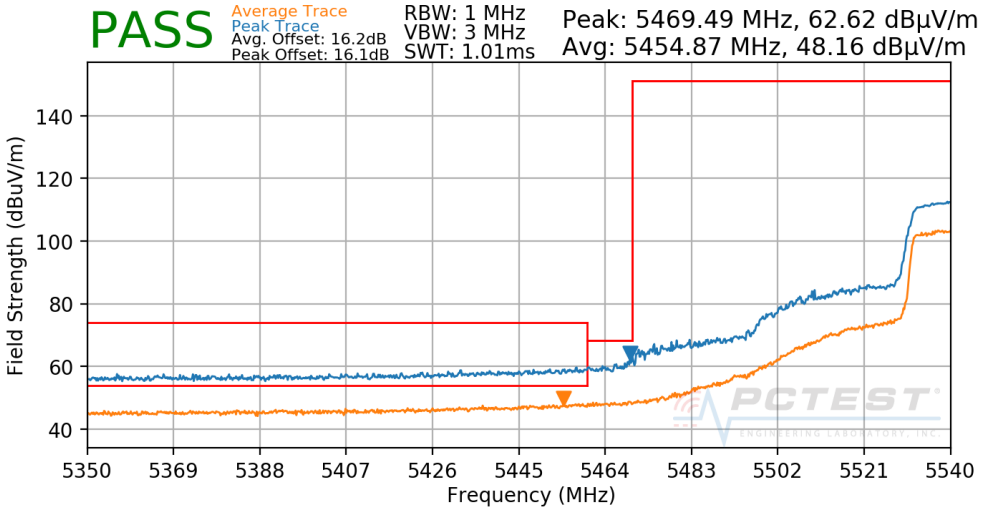
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102



Plot 7-249. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5550MHz
Channel:	110



Plot 7-250. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 2C)

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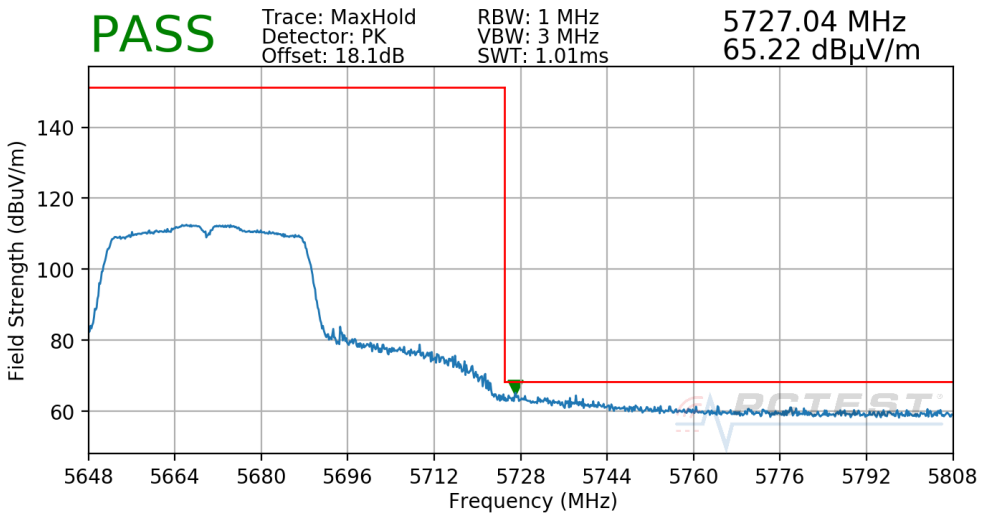
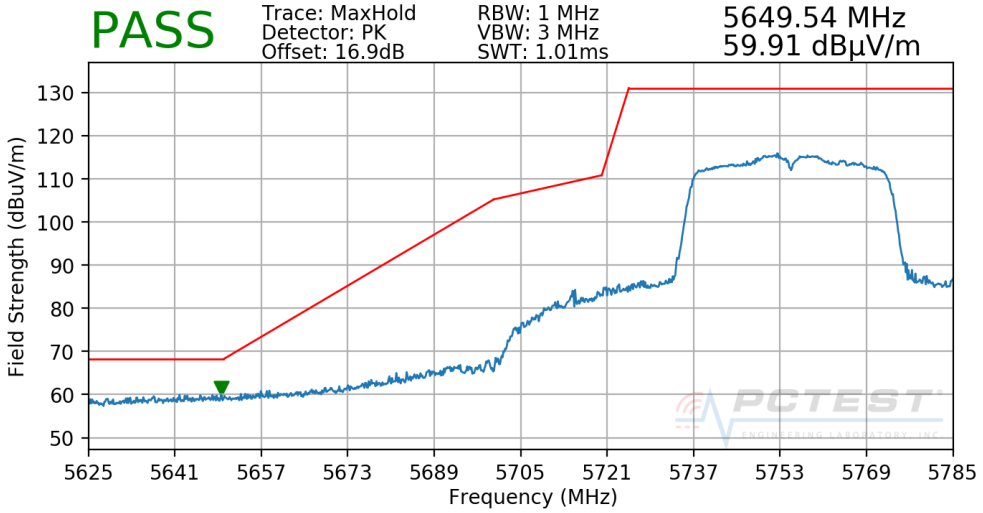
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5670MHz
Channel:	134



Plot 7-251. Radiated Upper Band Edge Plot SISO CORE1 (Peak - UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5755MHz
Channel:	151



Plot 7-252. Radiated Lower Band Edge Plot SISO CORE1 (Peak – UNII Band 3)

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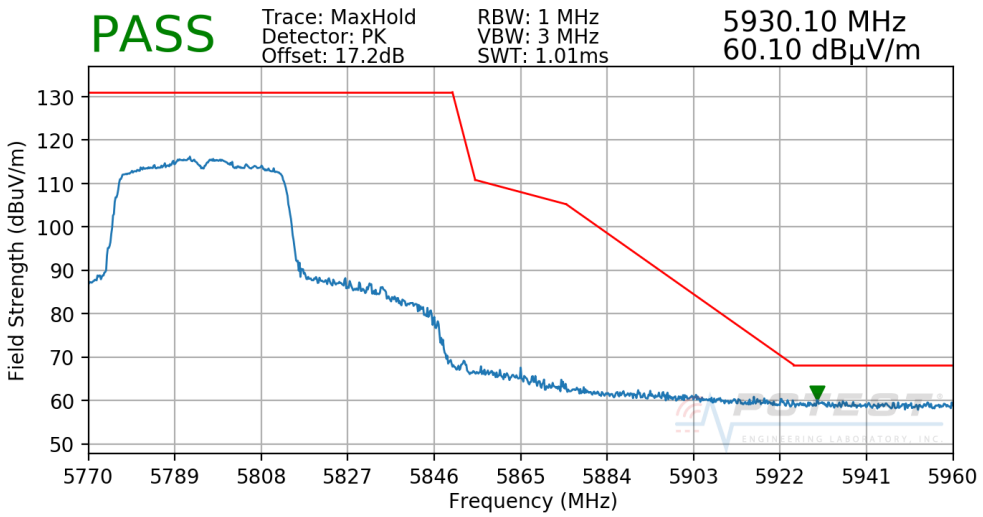
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-253. Radiated Upper Band Edge Plot SISO CORE1 (Peak – UNII Band 3)

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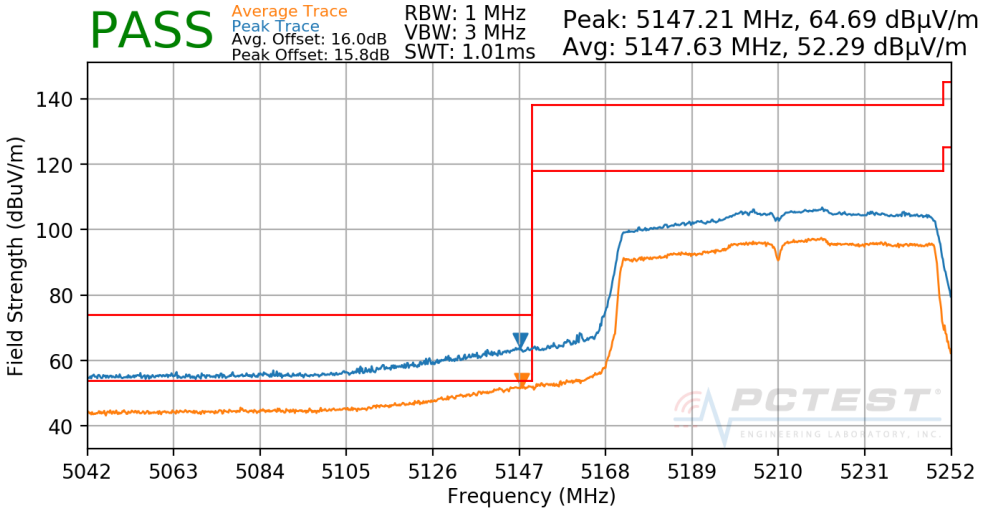
7.6.9 SISO Core-1 Radiated Band Edge Measurements (80MHz BW)

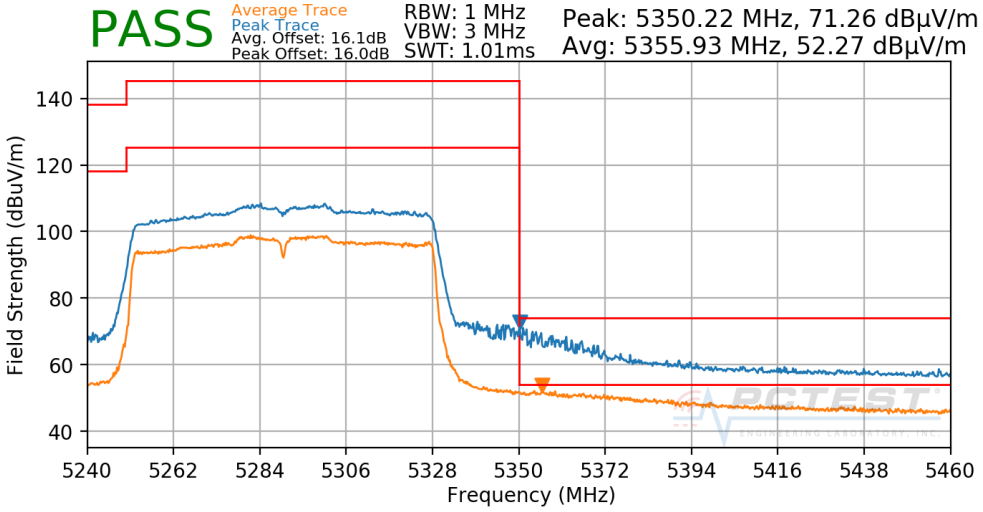
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-254. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-255. Radiated Upper Band Edge Plot SISO CORE1 (UNII Band 2A)

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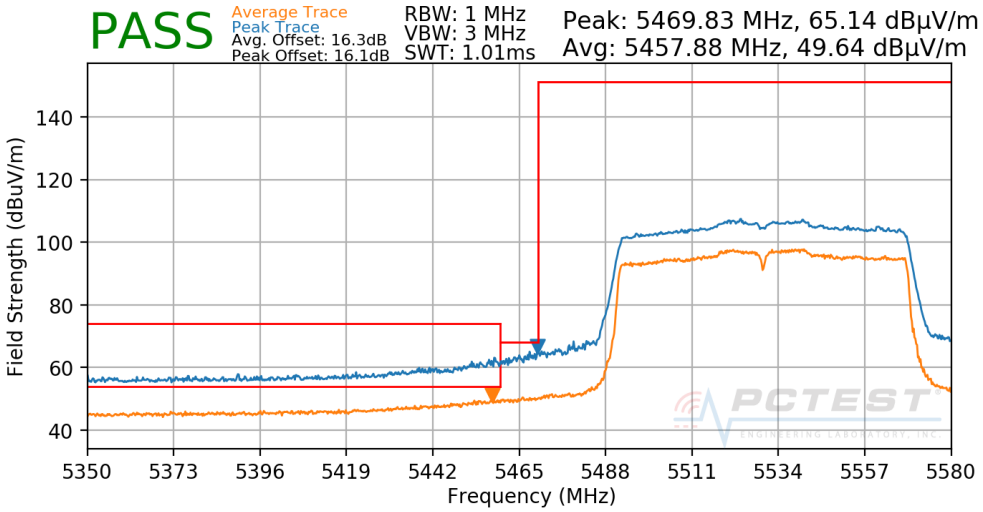
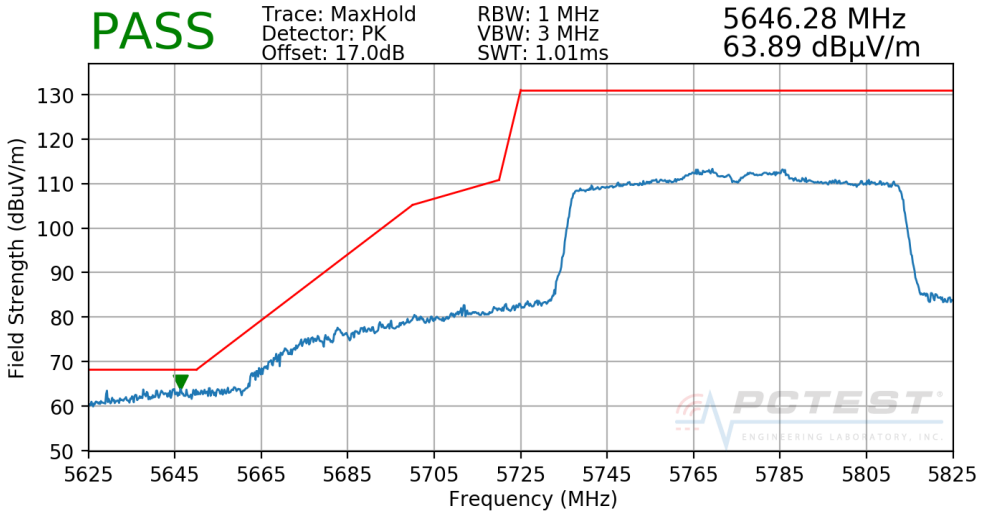
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106



Plot 7-256. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-257. Radiated Lower Band Edge Plot SISO CORE1 (Peak – UNII Band 3)

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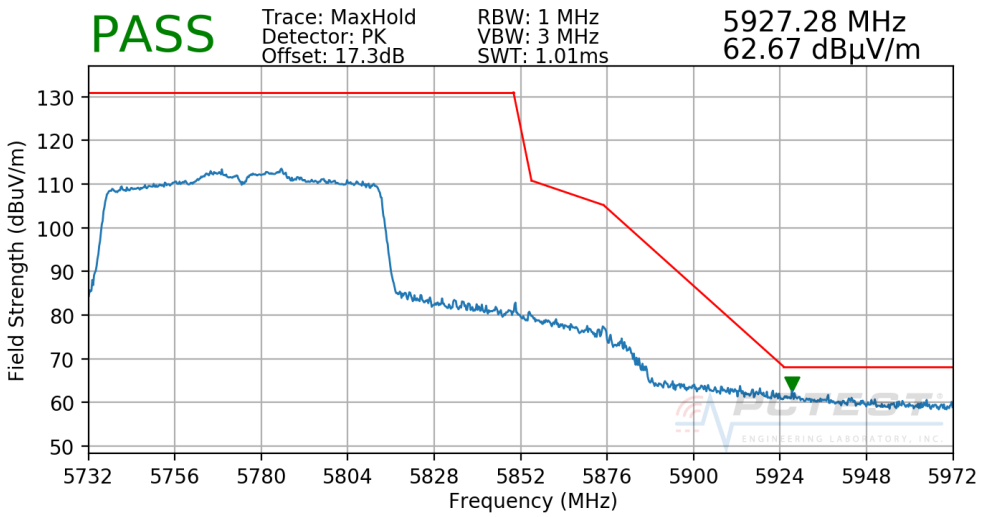
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-258. Radiated Upper Band Edge Plot SISO CORE1 (Peak – UNII Band 3)

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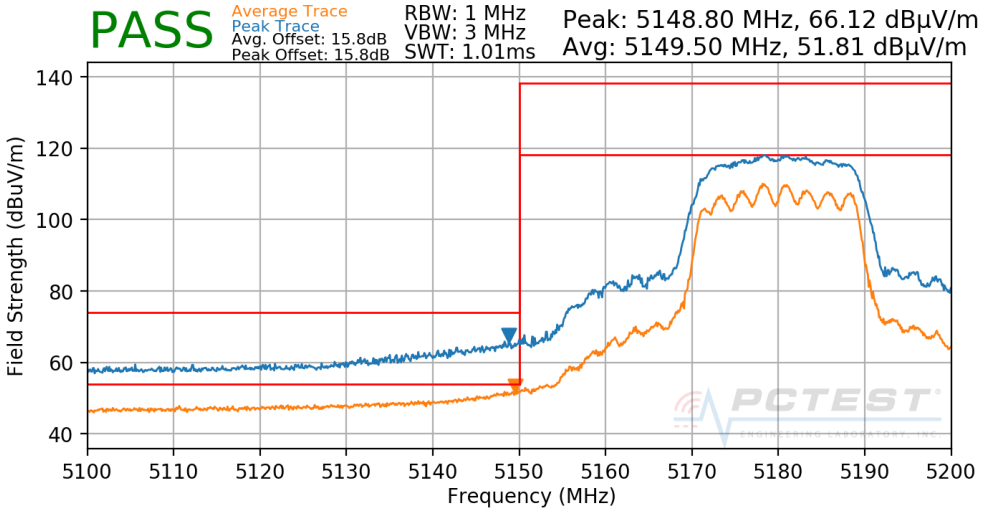
7.6.10 CDD Radiated Band Edge Measurements (20MHz BW)

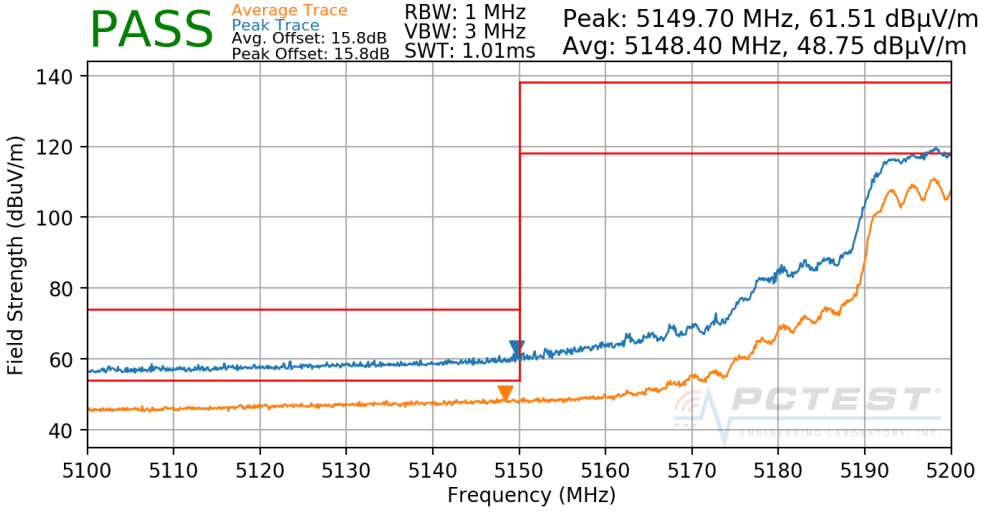
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36



Plot 7-259. Radiated Lower Band Edge Plot CDD (UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5200MHz
Channel:	40



Plot 7-260. Radiated Lower Band Edge Plot CDD (UNII Band 1)

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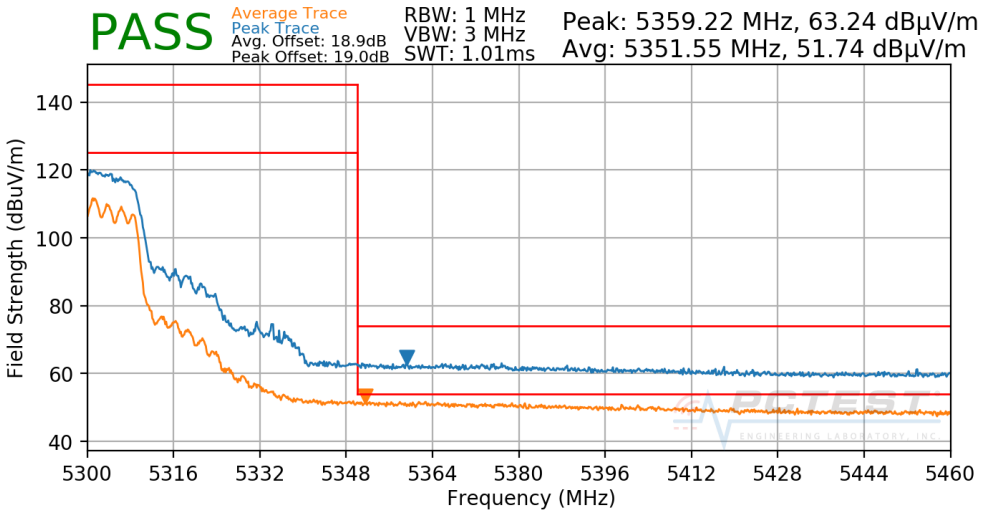
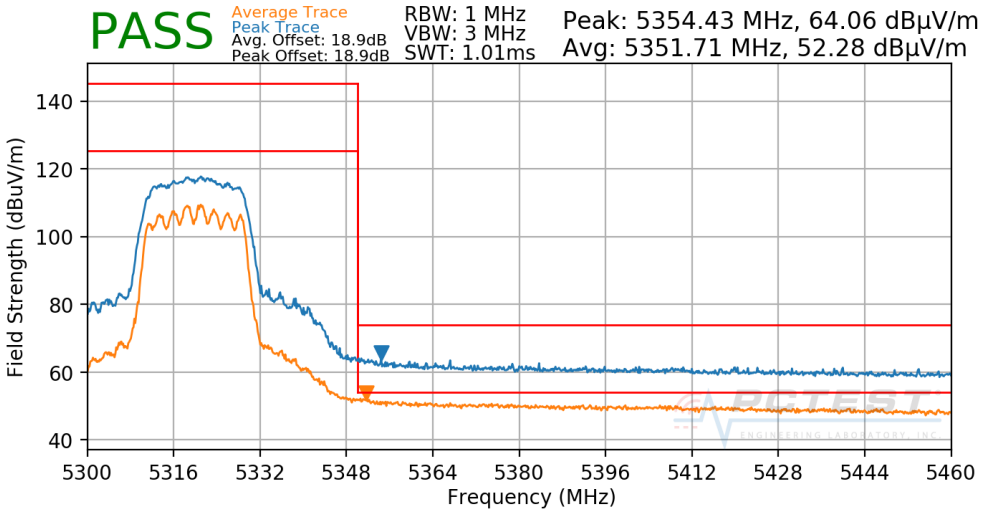
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5300MHz
Channel:	60



Plot 7-261. Radiated Upper Band Edge Plot CDD (UNII Band 2A)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-262. Radiated Upper Band Edge Plot CDD (UNII Band 2A)

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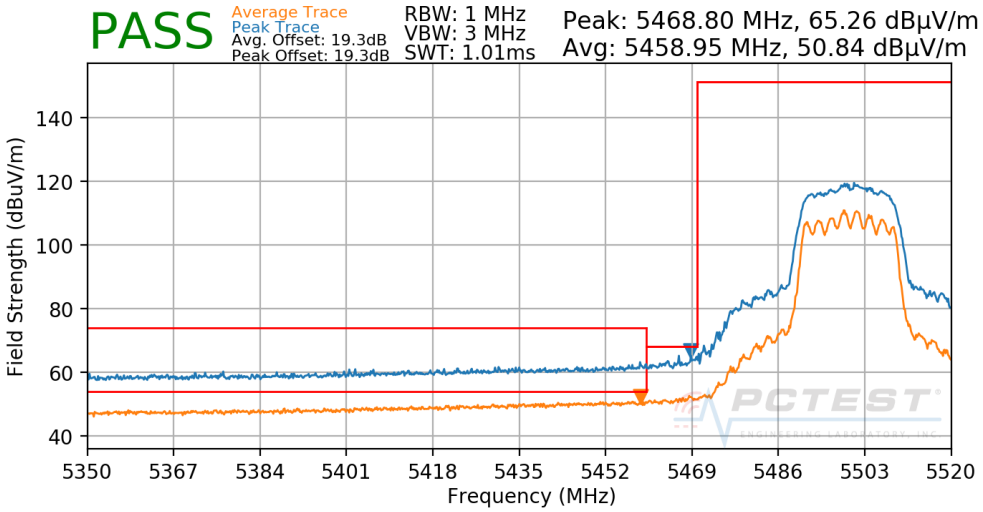
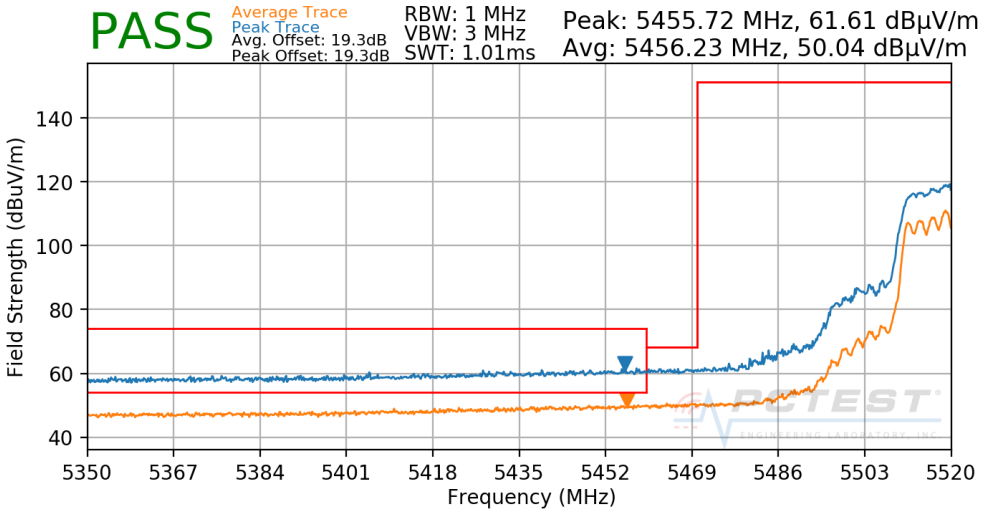
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100



Plot 7-263. Radiated Lower Band Edge Plot CDD (UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5520MHz
Channel:	104



Plot 7-264. Radiated Lower Band Edge Plot CDD (Peak – UNII Band 2C)

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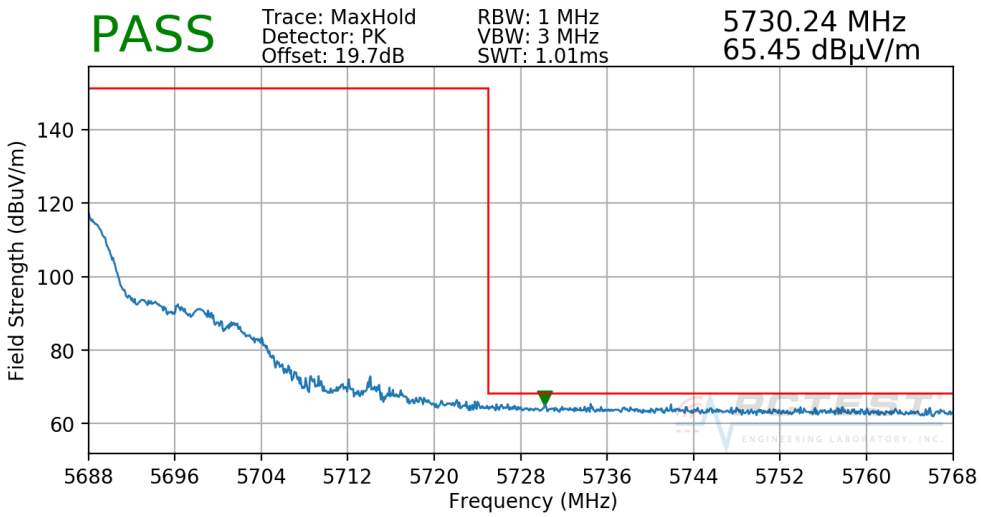
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5680MHz
Channel:	136



Plot 7-265. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 2C)

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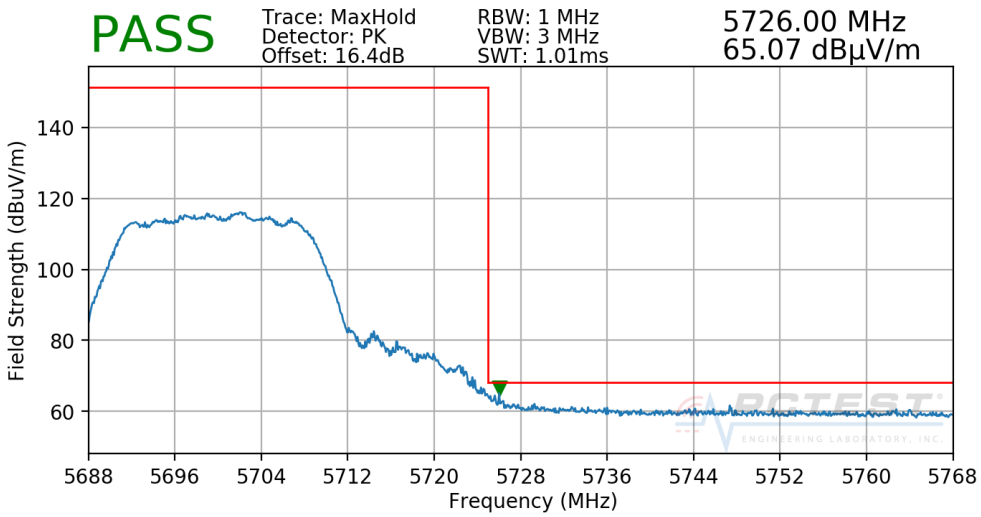
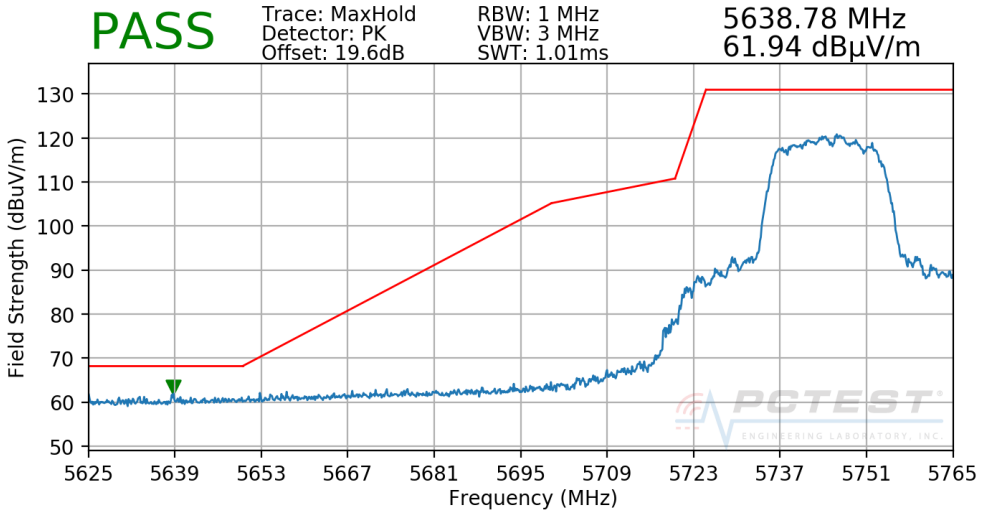
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5700MHz
Channel:	140



Plot 7-266. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5745MHz
Channel:	149



Plot 7-267. Radiated Lower Band Edge Plot CDD (Peak – UNII Band 3)

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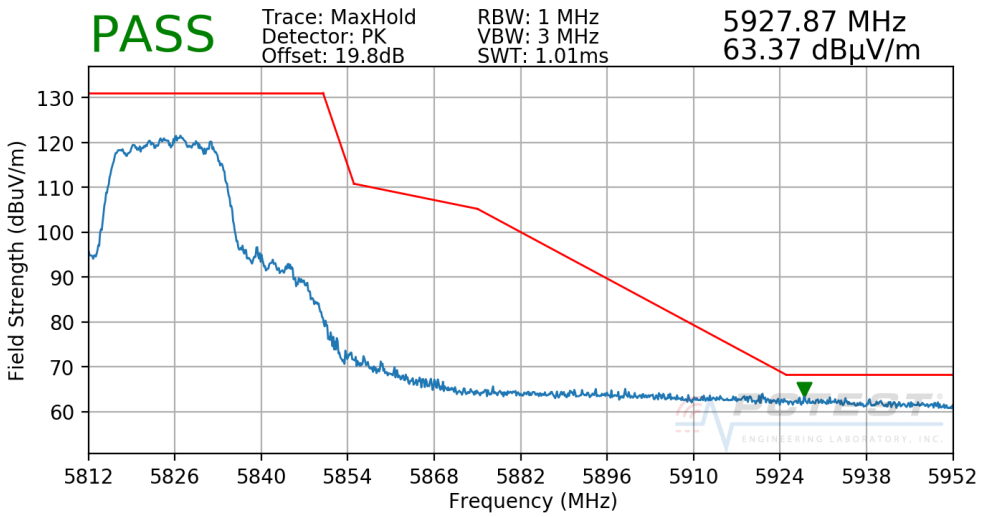
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5825MHz
Channel:	165



Plot 7-268. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 3)

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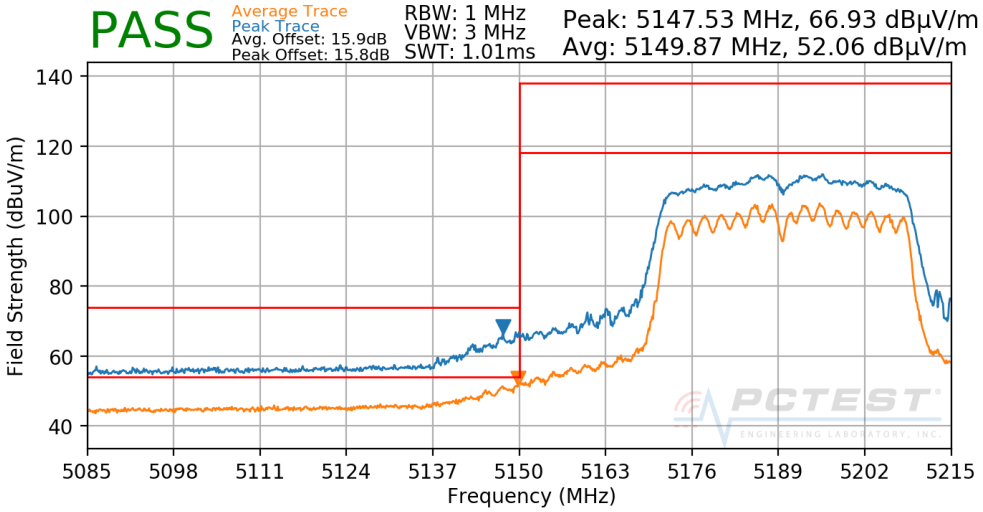
7.6.11 CDD Radiated Band Edge Measurements (40MHz BW)

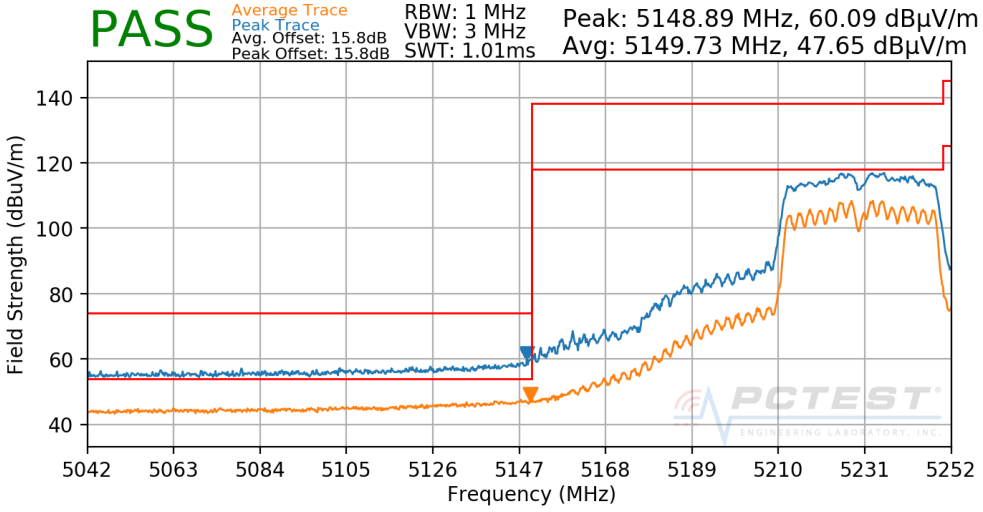
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



Plot 7-269. Radiated Lower Band Edge Plot CDD (UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5230MHz
Channel:	46



Plot 7-270. Radiated Lower Band Edge Plot CDD (UNII Band 1)

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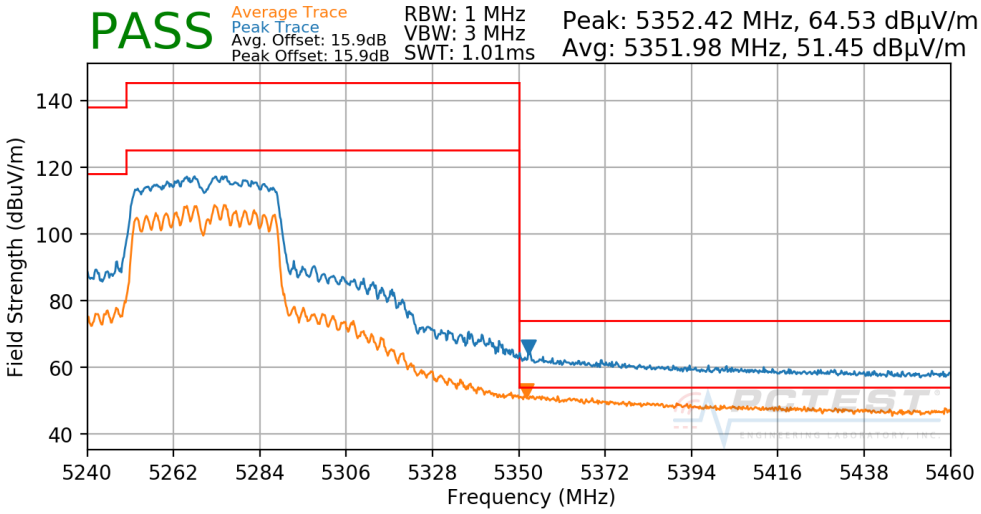
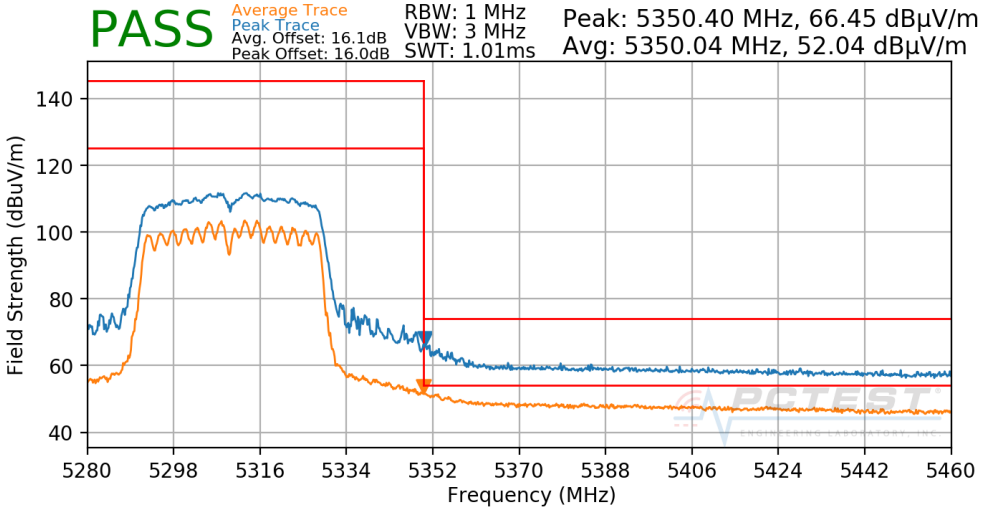
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5270MHz
Channel:	54



Plot 7-271. Radiated Upper Band Edge Plot CDD (UNII Band 2A)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-272. Radiated Upper Band Edge Plot CDD (UNII Band 2A)

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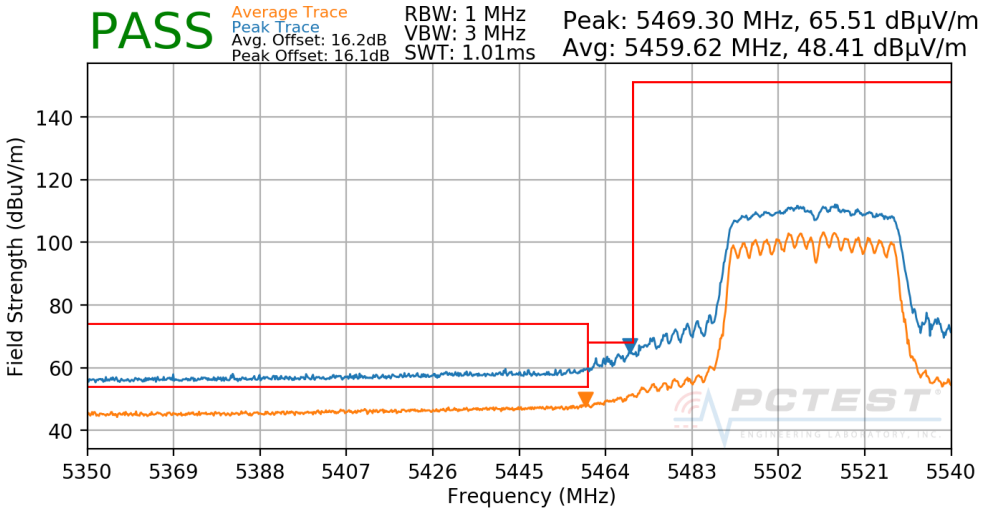
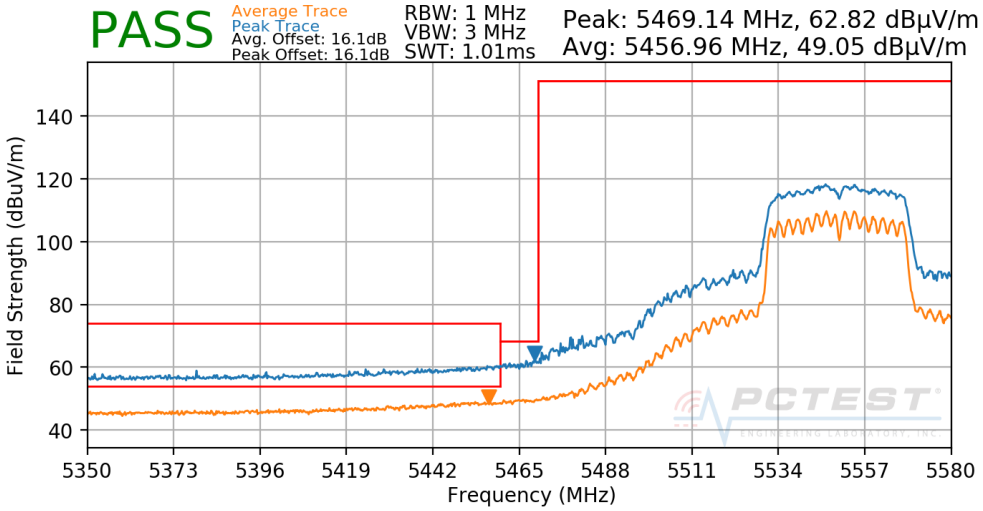
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102



Plot 7-273. Radiated Lower Band Edge Plot CDD (UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5550MHz
Channel:	110



Plot 7-274. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 2C)

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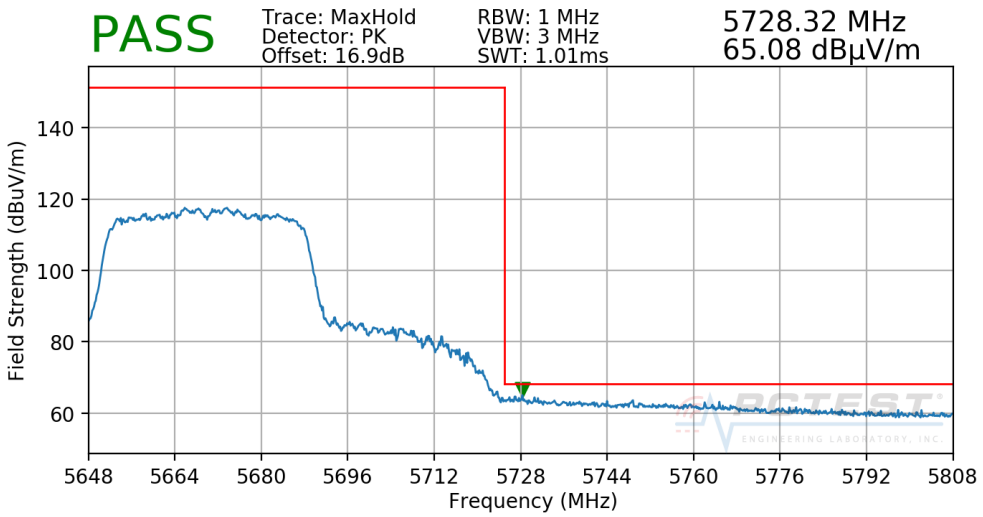
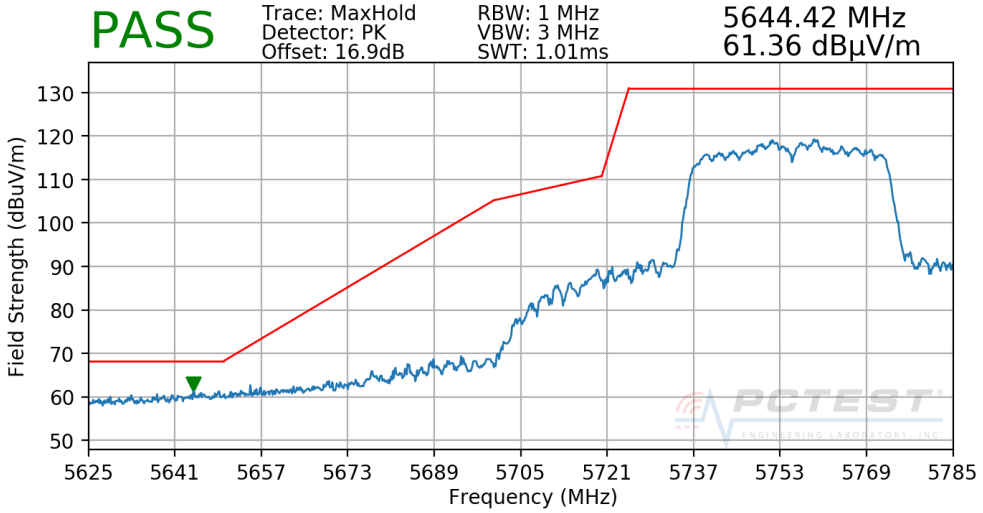
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5670MHz
Channel:	134



Plot 7-275. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5755MHz
Channel:	151



Plot 7-276. Radiated Lower Band Edge Plot CDD (Peak – UNII Band 3)

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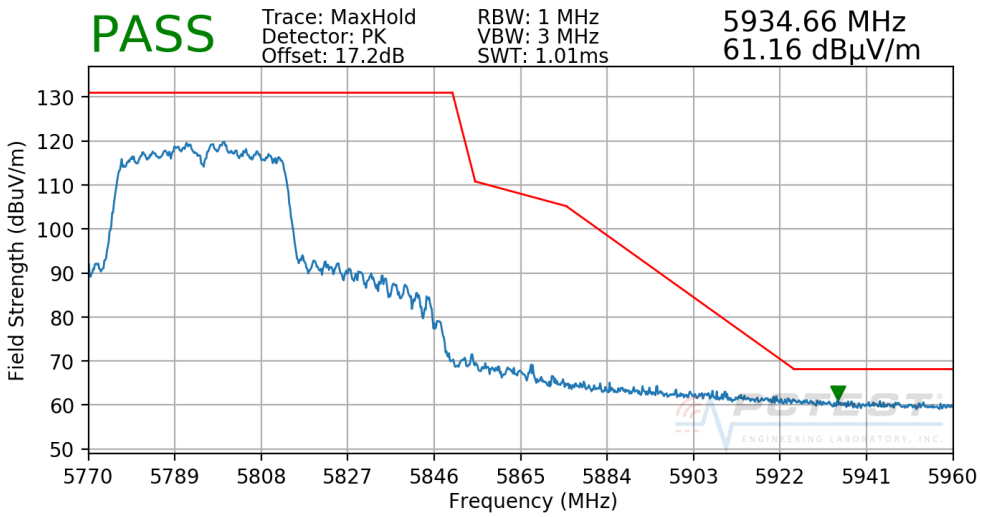
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-277. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 3)

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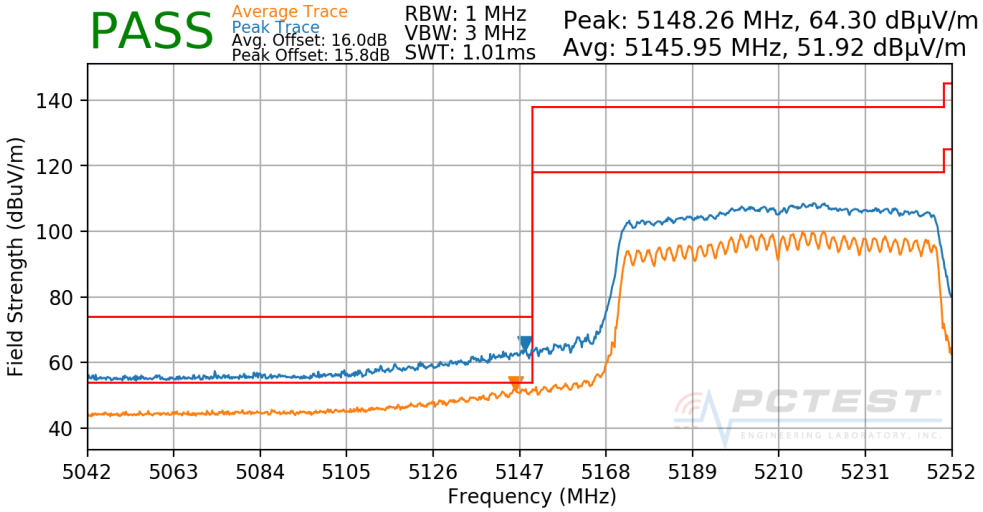
7.6.12 CDD Radiated Band Edge Measurements (80MHz BW)

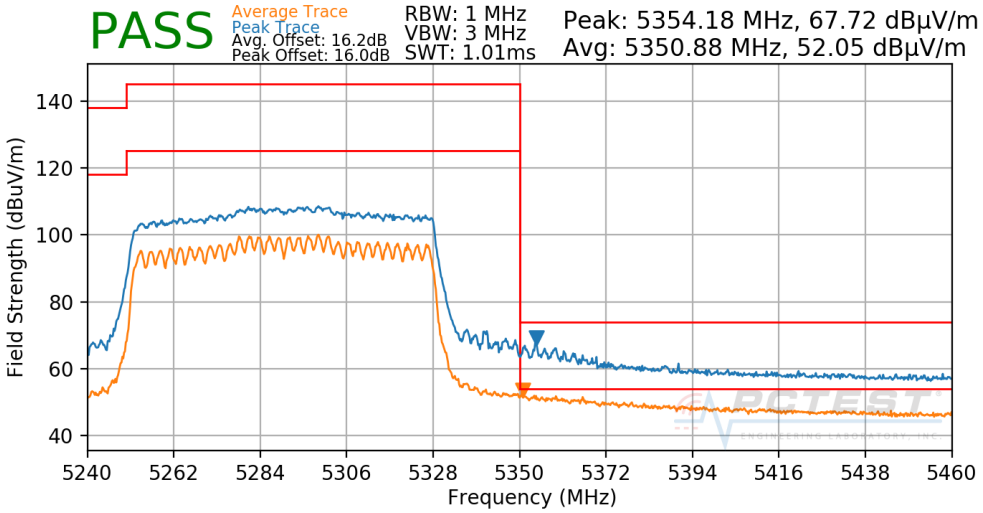
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42



Plot 7-278. Radiated Lower Band Edge Plot CDD (UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-279. Radiated Upper Band Edge Plot CDD (UNII Band 2A)

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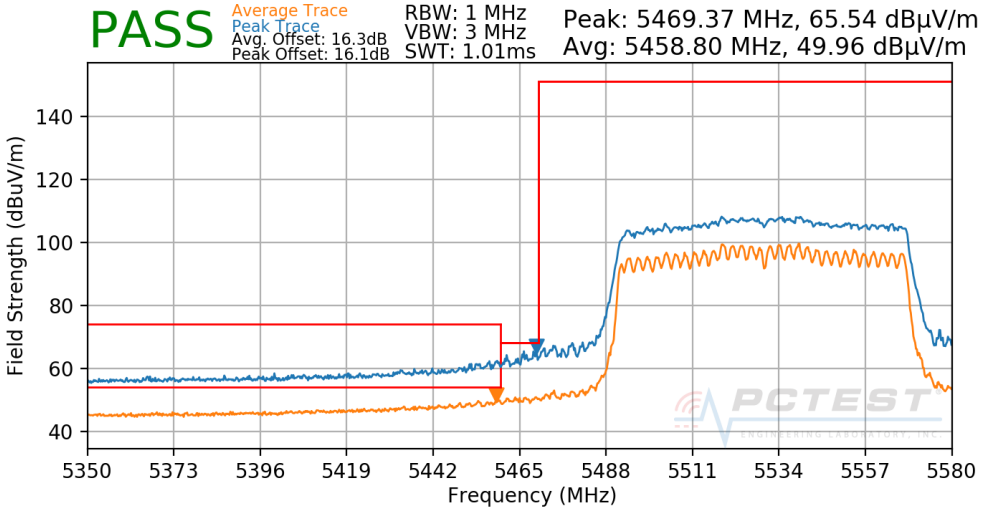
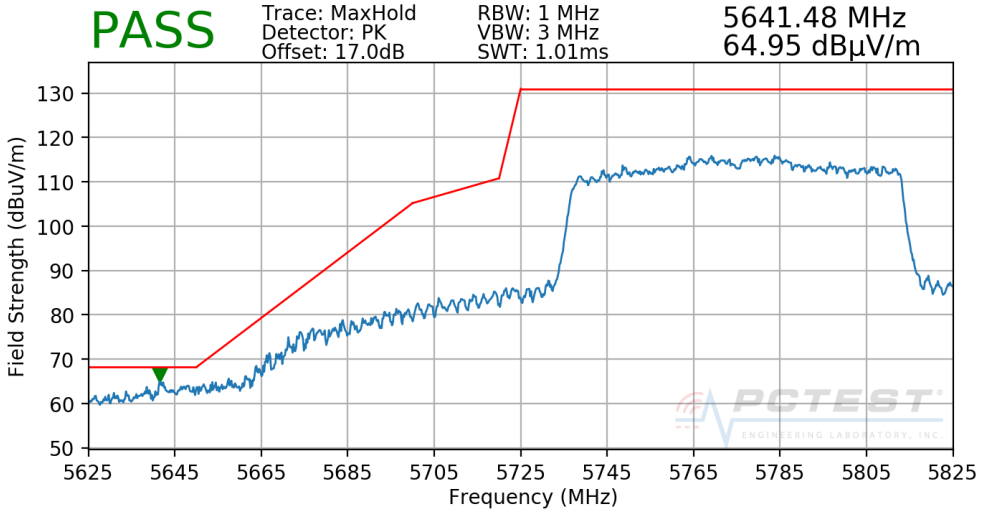
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106



Plot 7-280. Radiated Lower Band Edge Plot CDD (UNII Band 2C)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-281. Radiated Lower Band Edge Plot CDD (Peak – UNII Band 3)

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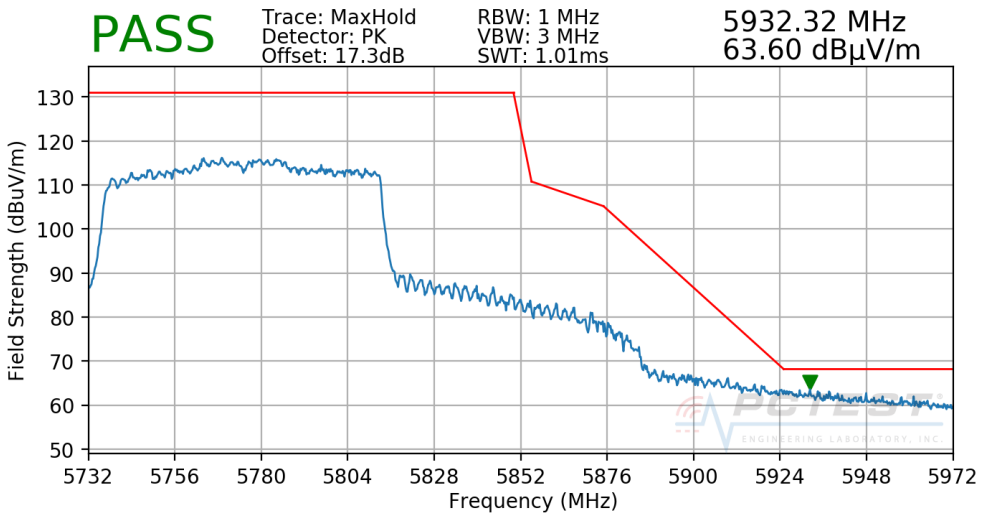
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5775MHz
Channel:	155



Plot 7-282. Radiated Upper Band Edge Plot CDD (Peak – UNII Band 3)

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7.7 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 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-72 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 7-72. 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 = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. 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.

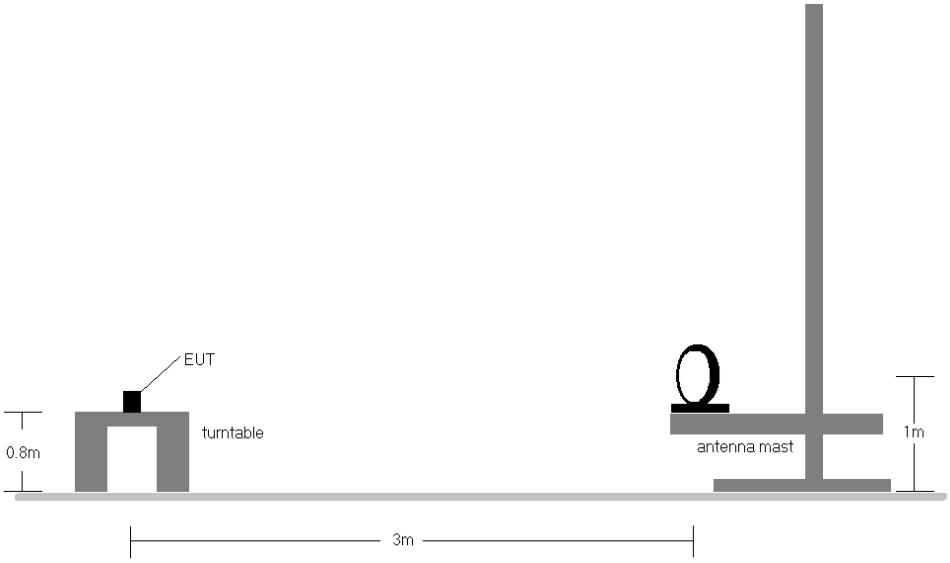

Figure 7-6. Radiated Test Setup < 30MHz

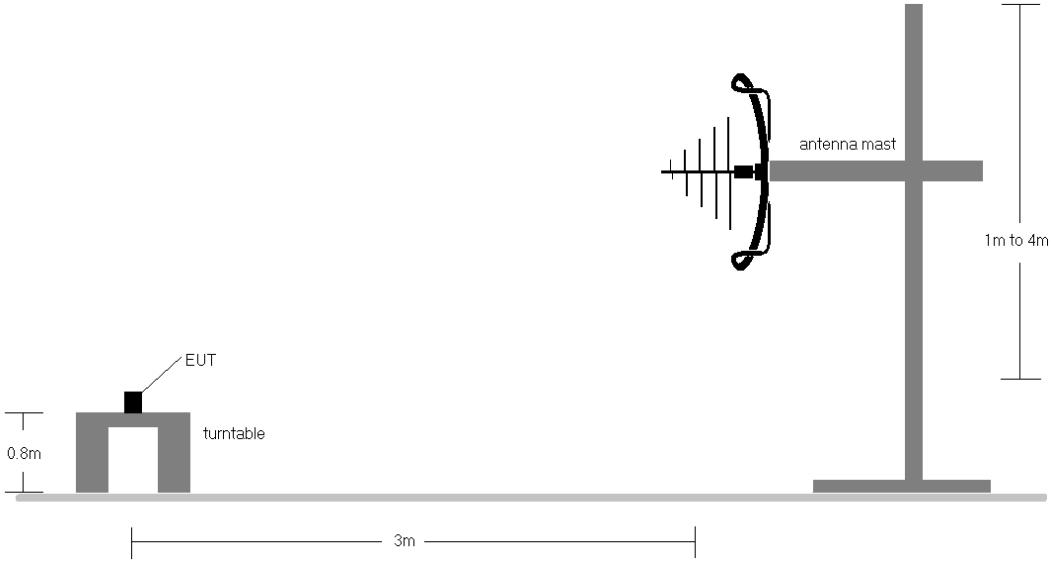

Figure 7-7. Radiated Test Setup < 1GHz

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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 7-72.
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 the 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.

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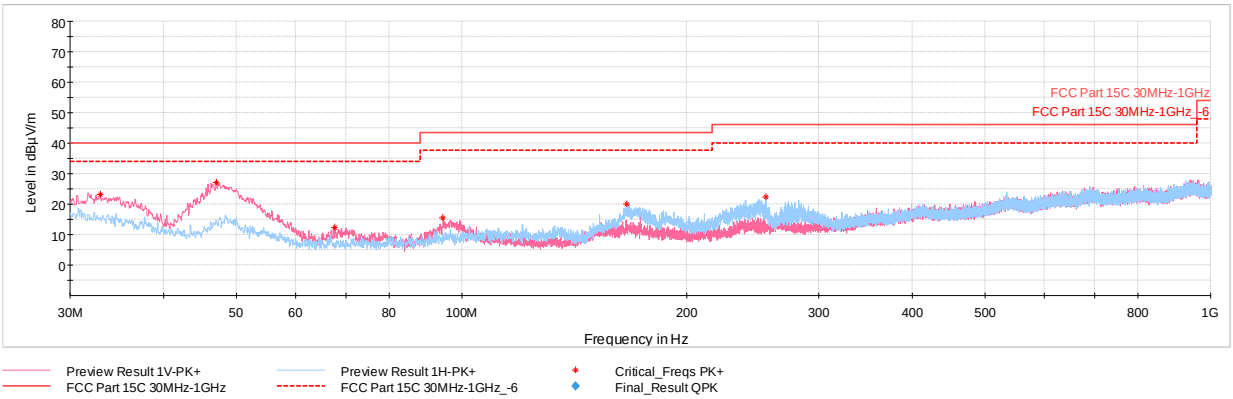
CDD Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-283. Radiated Spurious Plot below 1GHz CDD – Ch.36 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]
32.91	Max Peak	V	100	247	-70.37	-13.38	23.25	40.00	-16.75
47.02	Max Peak	V	100	30	-59.11	-20.68	27.21	40.00	-12.79
67.78	Max Peak	V	100	85	-73.67	-20.91	12.42	40.00	-27.58
94.41	Max Peak	V	100	258	-71.18	-20.41	15.41	43.52	-28.11
166.19	Max Peak	H	100	292	-69.32	-17.75	19.93	43.52	-23.59
254.56	Max Peak	H	100	223	-70.50	-14.13	22.37	46.02	-23.65

Table 7-73. Radiated Spurious Emissions below 1GHz CDD – Ch.36 with AC/DC Adapter

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7.8 AC Line-Conducted Test Data

§15.407; 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 7-74. 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.

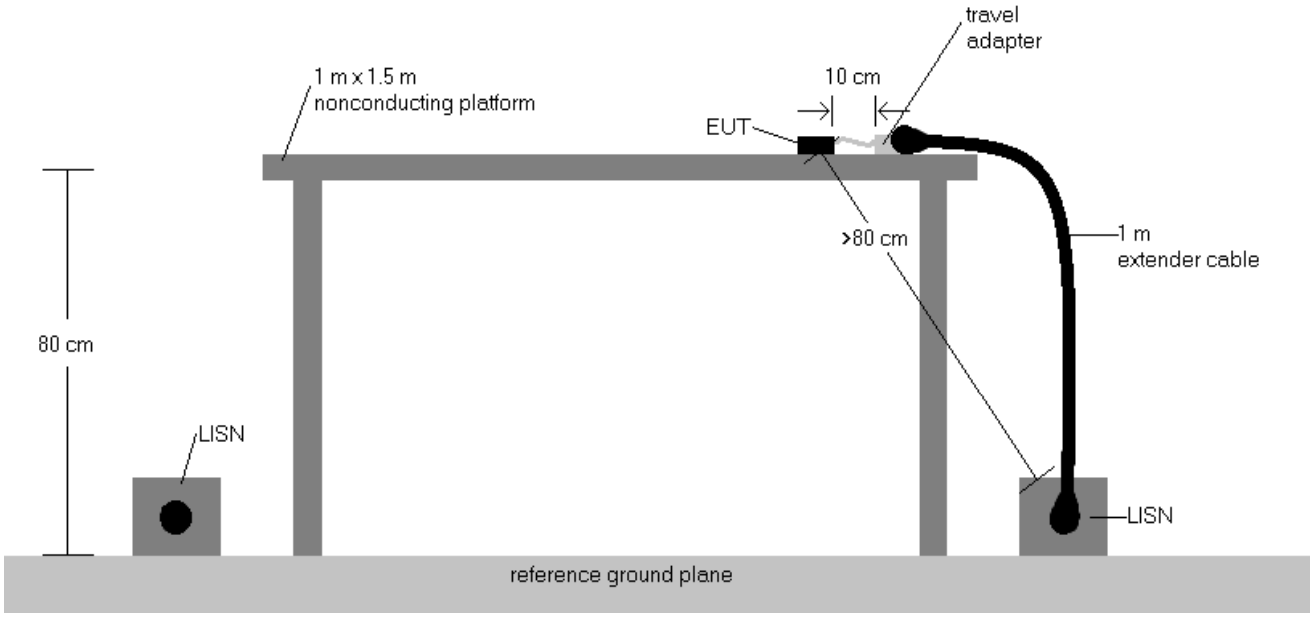

Figure 7-8. Test Instrument & Measurement Setup

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 15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dBμV) - QP/AV Level (dBμV)
6. Traces shown in plot are made using quasi-peak and average detectors.
7. Deviations to the Specifications: None.

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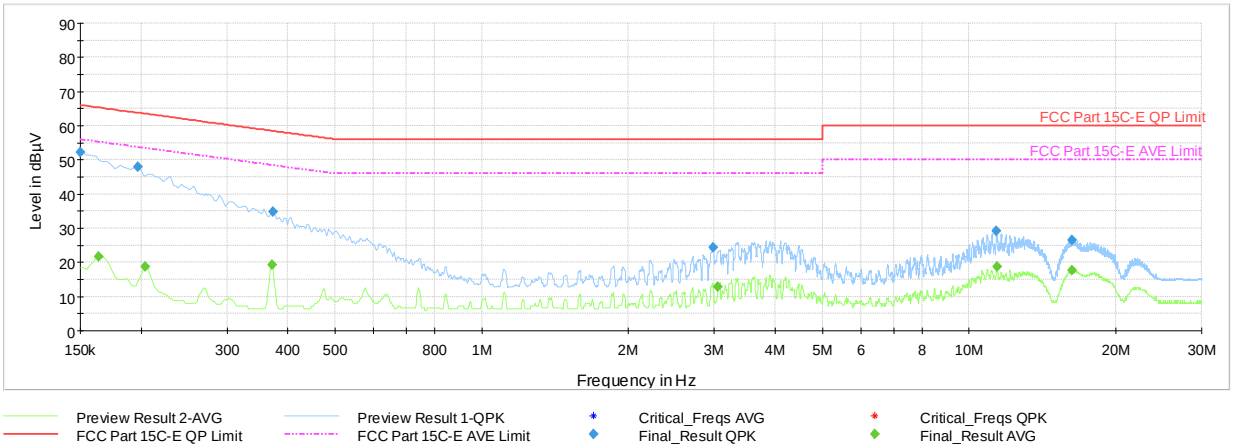

Plot 7-284. Line Conducted Plot with 802.11n UNII Band 1 – Ch.36 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	52.18	—	66.00	-13.82	L1	GND
0.164	FINAL	—	21.56	55.28	-33.72	L1	GND
0.197	FINAL	48.01	—	63.73	-15.72	L1	GND
0.204	FINAL	—	18.64	53.45	-34.80	L1	GND
0.371	FINAL	—	19.37	48.49	-29.12	L1	GND
0.373	FINAL	34.90	—	58.44	-23.54	L1	GND
2.985	FINAL	24.33	—	56.00	-31.67	L1	GND
3.050	FINAL	—	12.88	46.00	-33.12	L1	GND
11.375	FINAL	29.12	—	60.00	-30.88	L1	GND
11.389	FINAL	—	18.63	50.00	-31.37	L1	GND
16.224	FINAL	—	17.57	50.00	-32.43	L1	GND
16.280	FINAL	26.65	—	60.00	-33.35	L1	GND

Table 7-75. Line Conducted Table with 802.11n UNII Band 1 – Ch.36 (L1), with AC/DC Adapter

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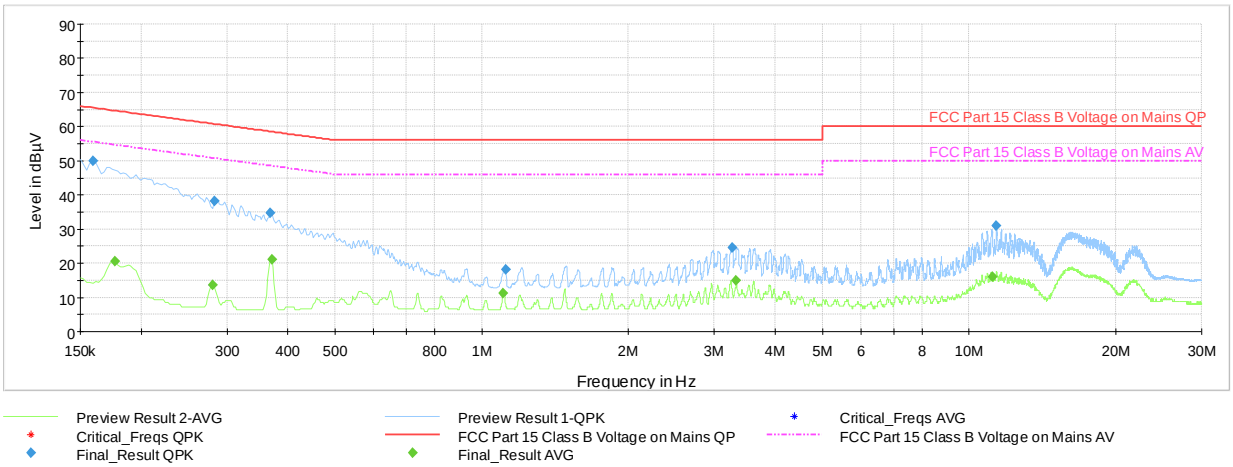

Plot 7-285. Line Conducted Plot with 802.11n UNII Band 1 – Ch.36 (N), with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	50.01	—	65.52	-15.50	N	GND
0.177	FINAL	—	20.51	54.63	-34.11	N	GND
0.281	FINAL	—	13.58	50.80	-37.22	N	GND
0.283	FINAL	38.06	—	60.74	-22.67	N	GND
0.368	FINAL	34.69	—	58.54	-23.85	N	GND
0.371	FINAL	—	21.17	48.49	-27.32	N	GND
1.106	FINAL	—	11.20	46.00	-34.80	N	GND
1.120	FINAL	18.29	—	56.00	-37.71	N	GND
3.264	FINAL	24.61	—	56.00	-31.39	N	GND
3.327	FINAL	—	14.89	46.00	-31.11	N	GND
11.189	FINAL	—	16.13	50.00	-33.87	N	GND
11.384	FINAL	31.00	—	60.00	-29.00	N	GND

Table 7-76. Line Conducted Table with 802.11n UNII Band 1 – Ch.36 (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: BCGA2069** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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