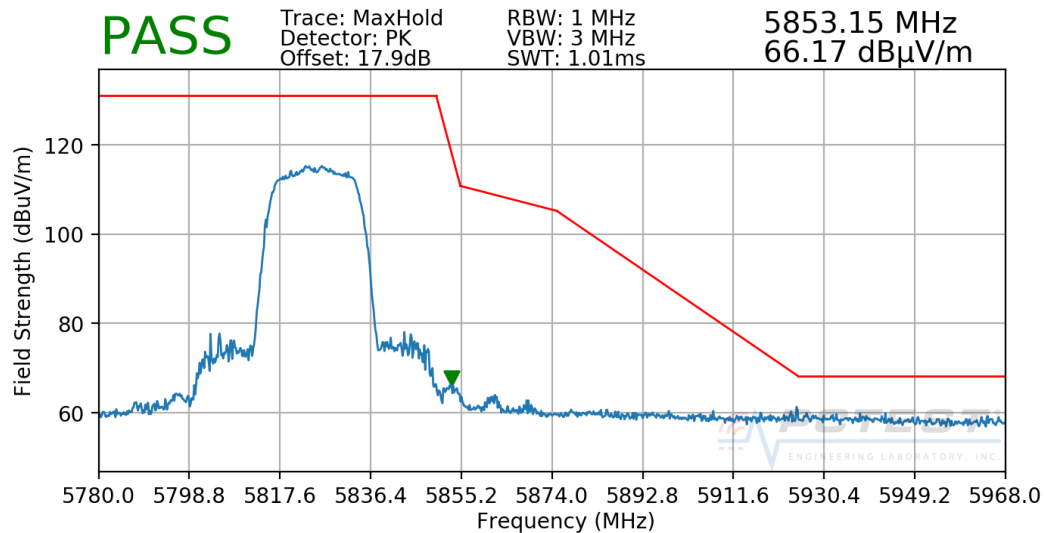


Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165



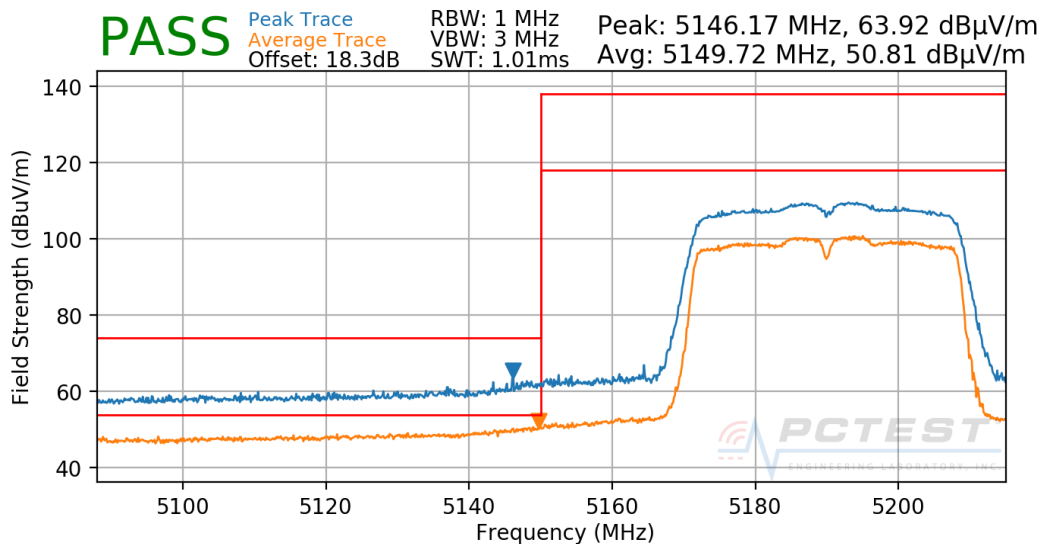
**Plot 7-248. Radiated Upper Band Edge Plot SISO CORE1 (Peak – UNII Band 3)**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 177 of 207

## 7.6.8 SISO Core-1 Radiated Band Edge Measurements (40MHz BW)

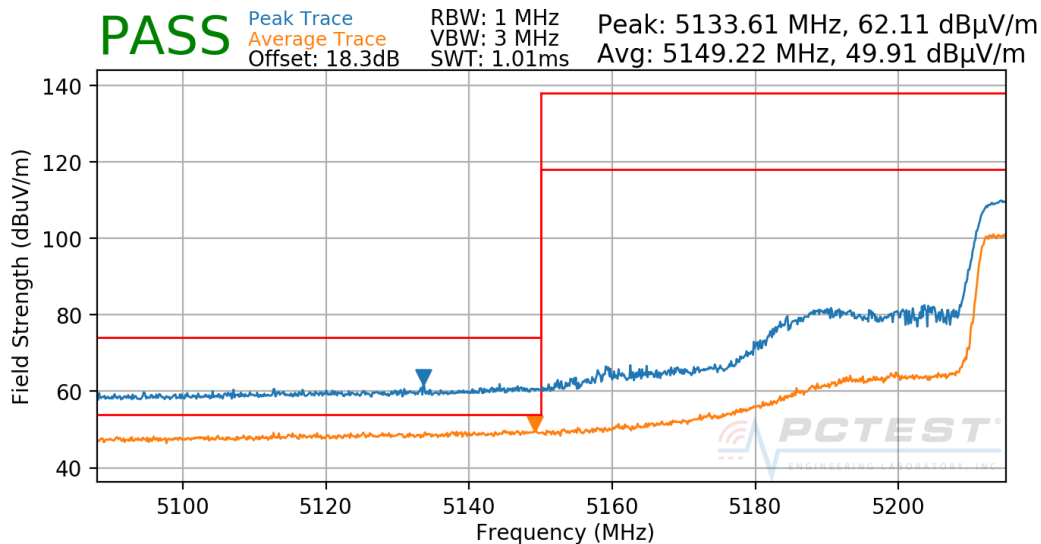
**\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]**

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



**Plot 7-249. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 1)**

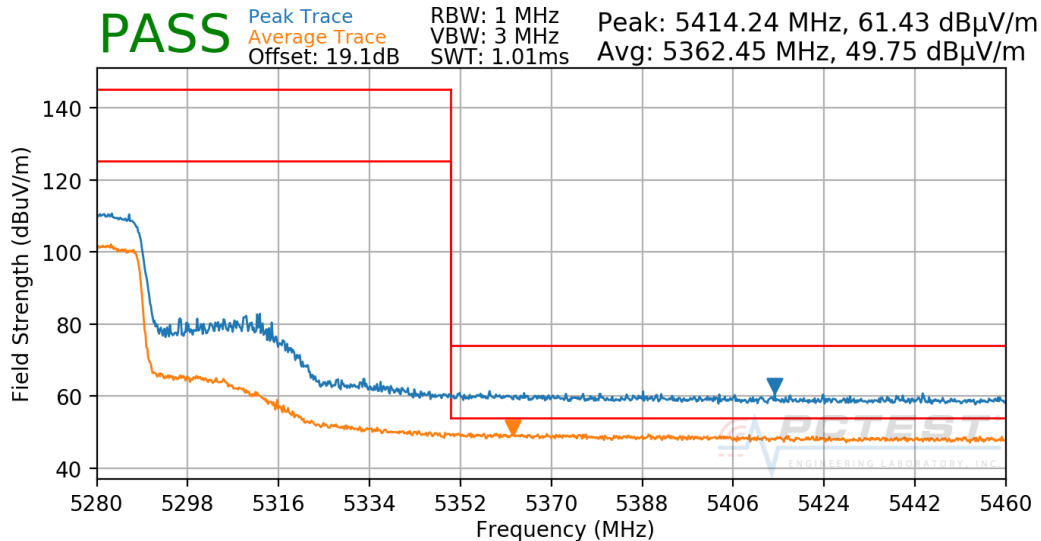
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5230MHz  
Channel: 46



**Plot 7-250. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 1)**

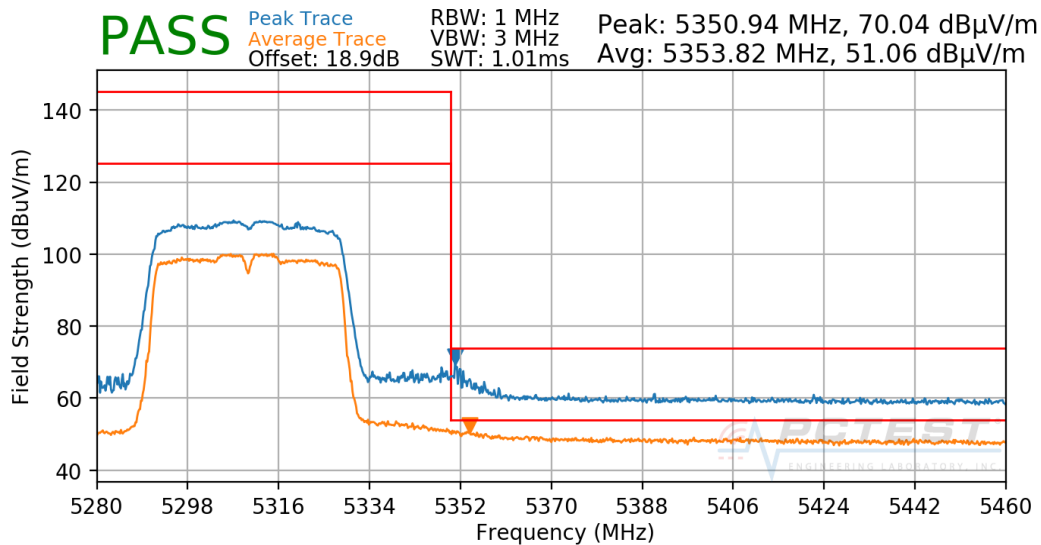
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 178 of 207

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



**Plot 7-251. Radiated Upper Band Edge Plot SISO CORE1 (UNII Band 2A)**

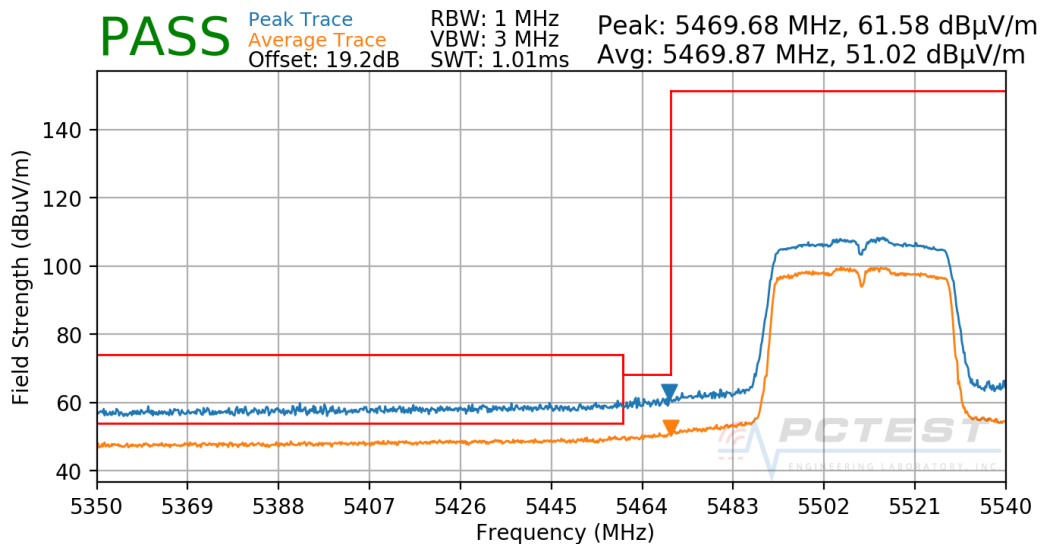
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5310MHz  
Channel: 62



**Plot 7-252. Radiated Upper Band Edge Plot SISO CORE1 (UNII Band 2A)**

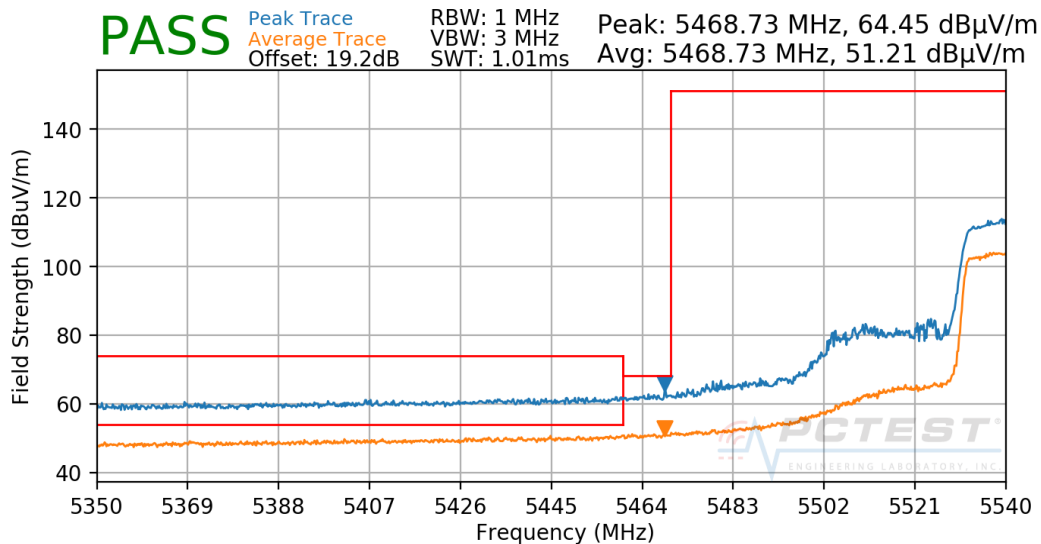
FCC ID: BCGA1895	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device		Page 179 of 207

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



**Plot 7-253. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 2C)**

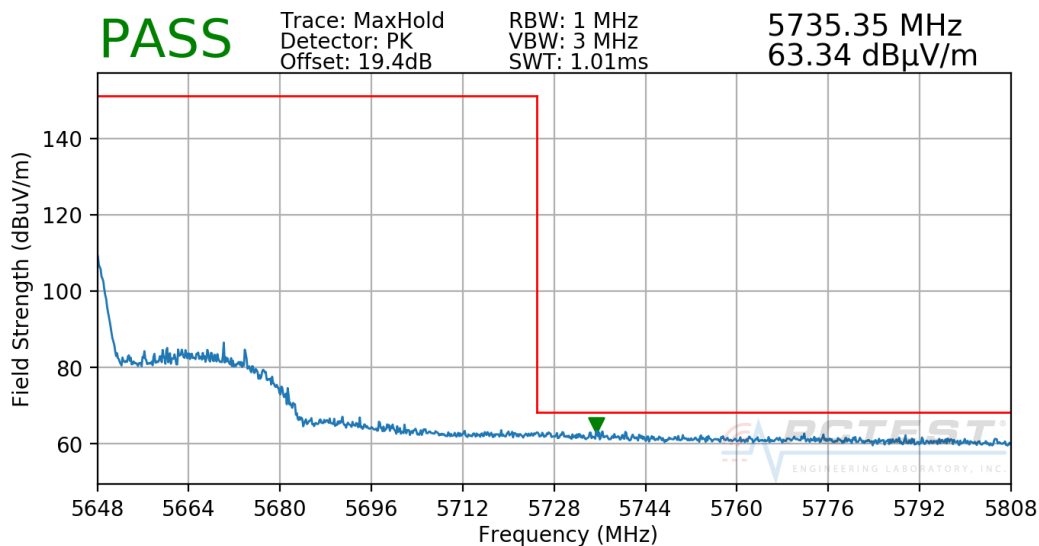
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5550MHz  
Channel: 110



**Plot 7-254. Radiated Upper Band Edge Plot SISO CORE1 (Peak - UNII Band 2C)**

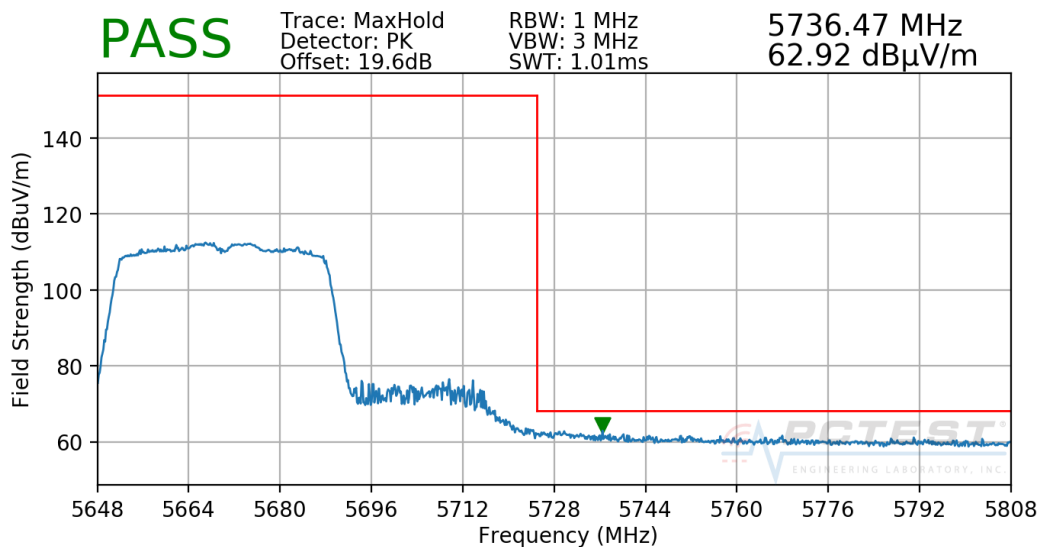
FCC ID: BCGA1895	 <b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 180 of 207

Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5630MHz  
Channel: 126



**Plot 7-255. Radiated Upper Band Edge Plot SISO CORE1 (Peak - UNII Band 2C)**

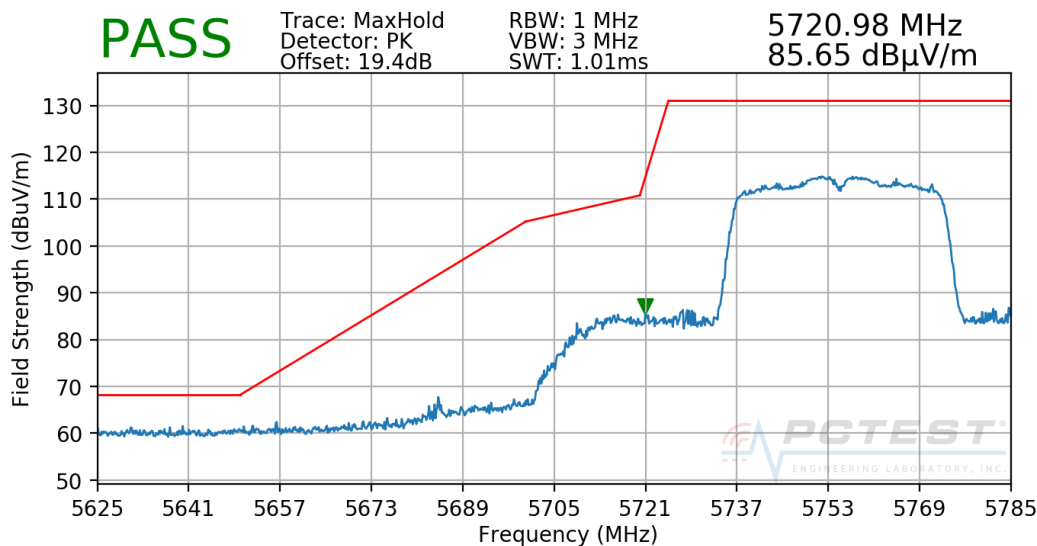
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5670MHz  
Channel: 134



**Plot 7-256. Radiated Upper Band Edge Plot SISO CORE1 (Peak - UNII Band 2C)**

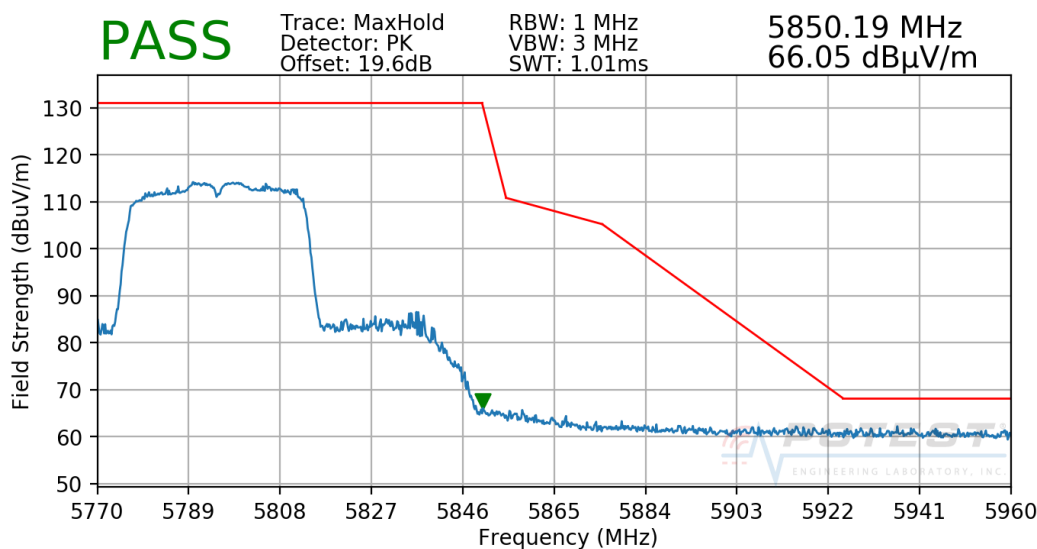
FCC ID: BCGA1895	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 181 of 207

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



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

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



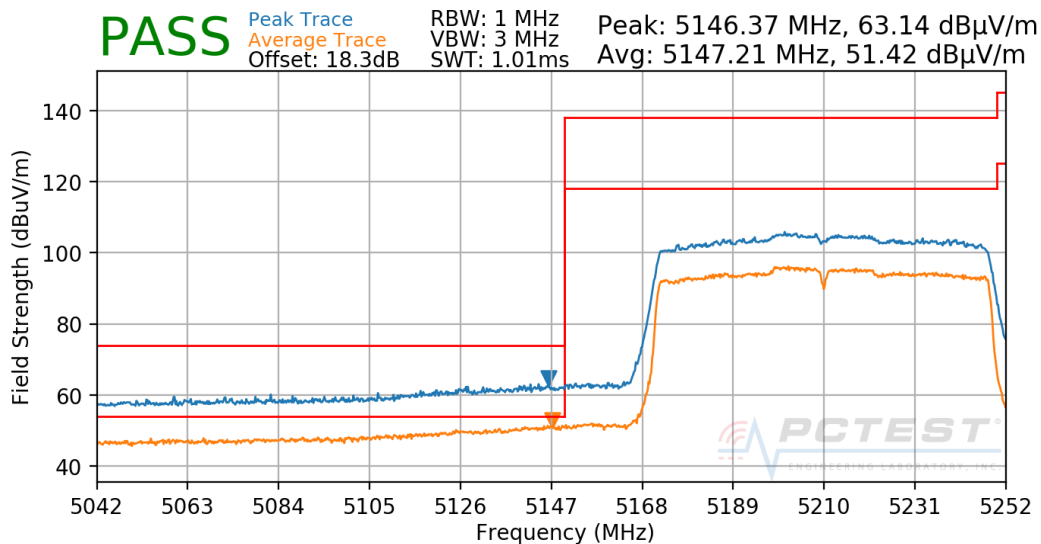
**Plot 7-258. Radiated Upper Band Edge Plot SISO CORE1 (Peak - UNII Band 3)**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 182 of 207

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

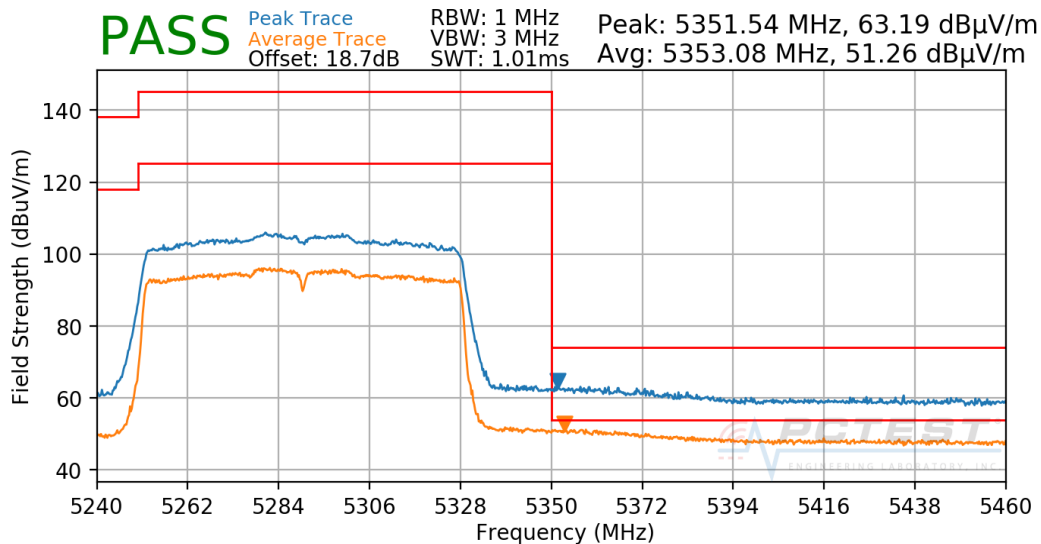
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

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



**Plot 7-259. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 1)**

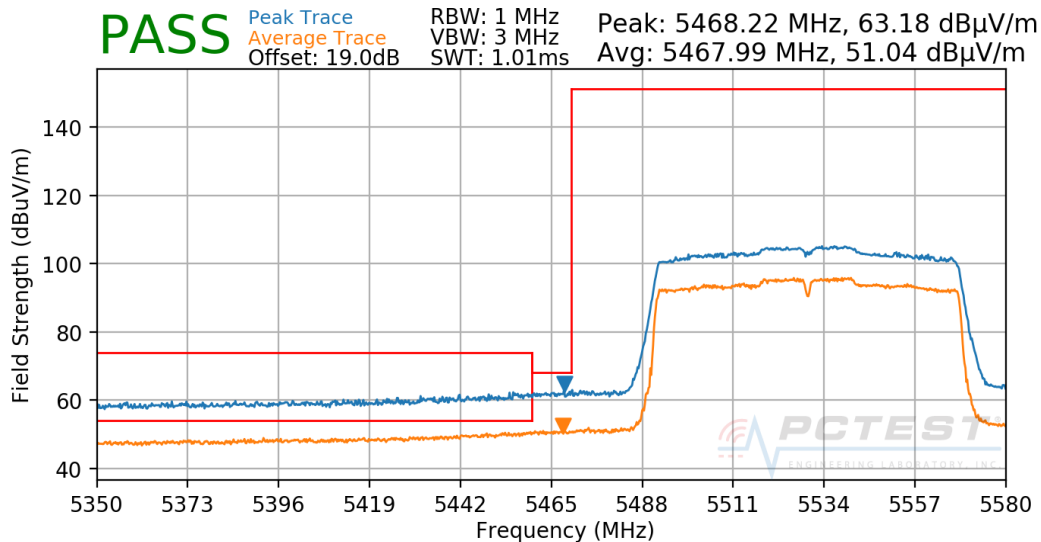
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



**Plot 7-260. Radiated Upper Band Edge Plot SISO CORE1 (UNII Band 2A)**

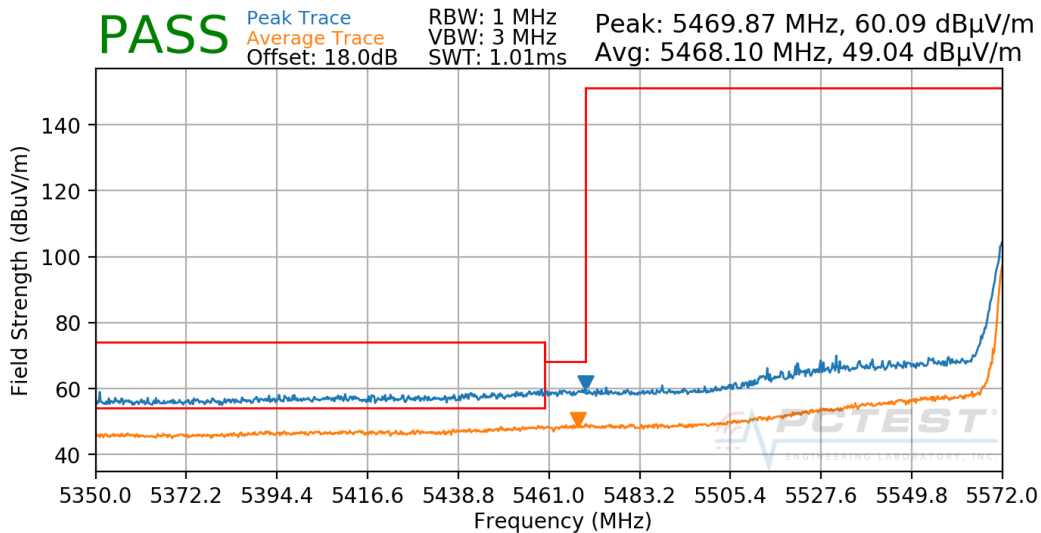
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 183 of 207

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



**Plot 7-261. 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: 5610MHz  
Channel: 122

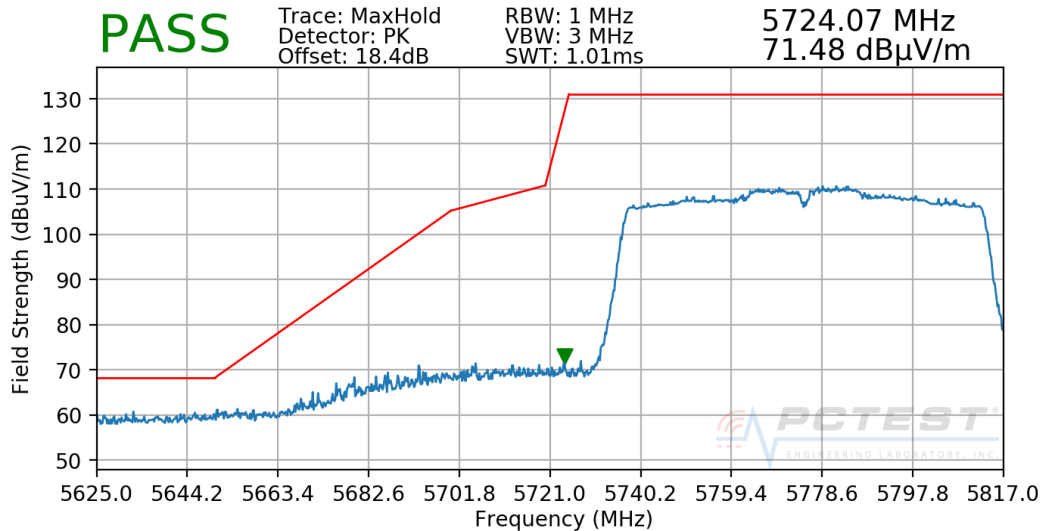


**Plot 7-262. Radiated Lower Band Edge Plot SISO CORE1 (UNII Band 2C)**

FCC ID: BCGA1895	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device		Page 184 of 207

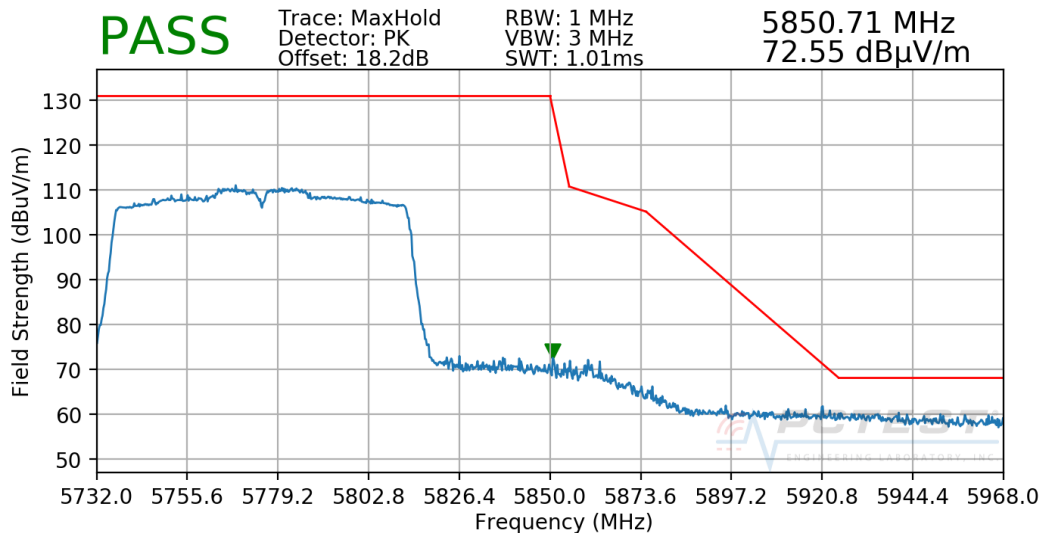


Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



**Plot 7-263. Radiated Lower Band Edge Plot SISO CORE1 (Peak – UNII Band 3)**

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



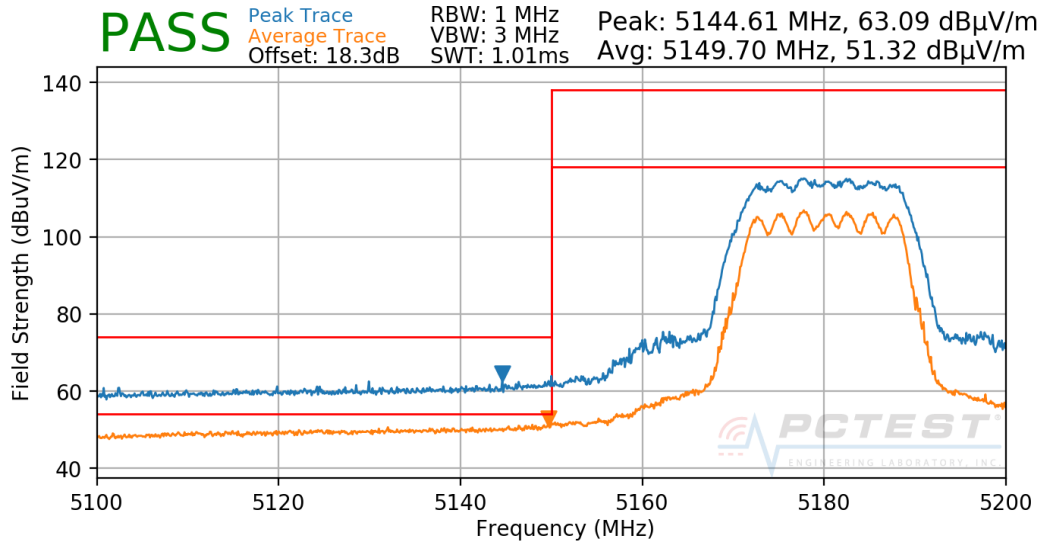
**Plot 7-264. Radiated Upper Band Edge Plot SISO CORE1 (Peak – UNII Band 3)**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 185 of 207

### 7.6.10 CDD Radiated Band Edge Measurements (20MHz BW)

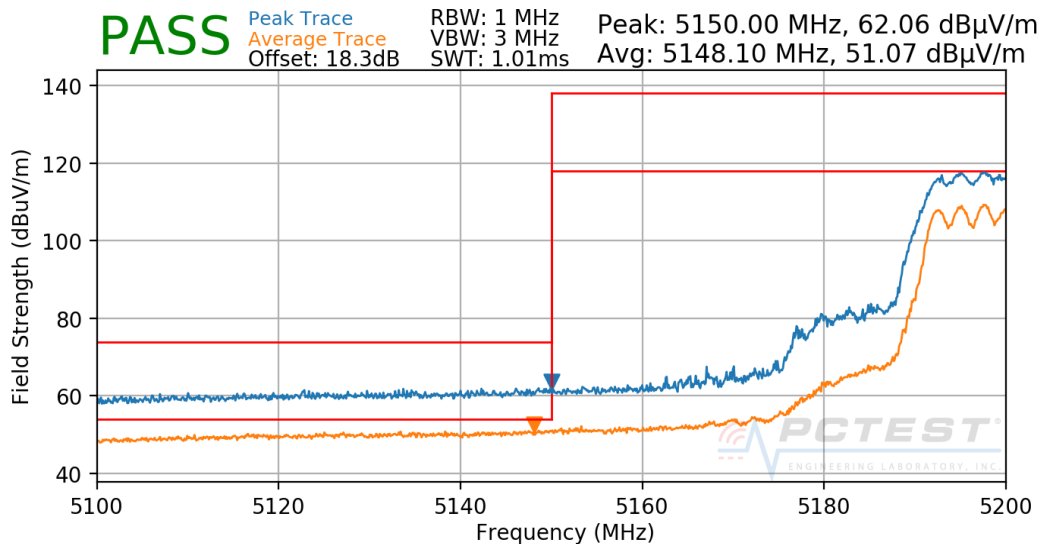
\$15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

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



Plot 7-265. Radiated Lower Band Edge Plot CDD (UNII Band 1)

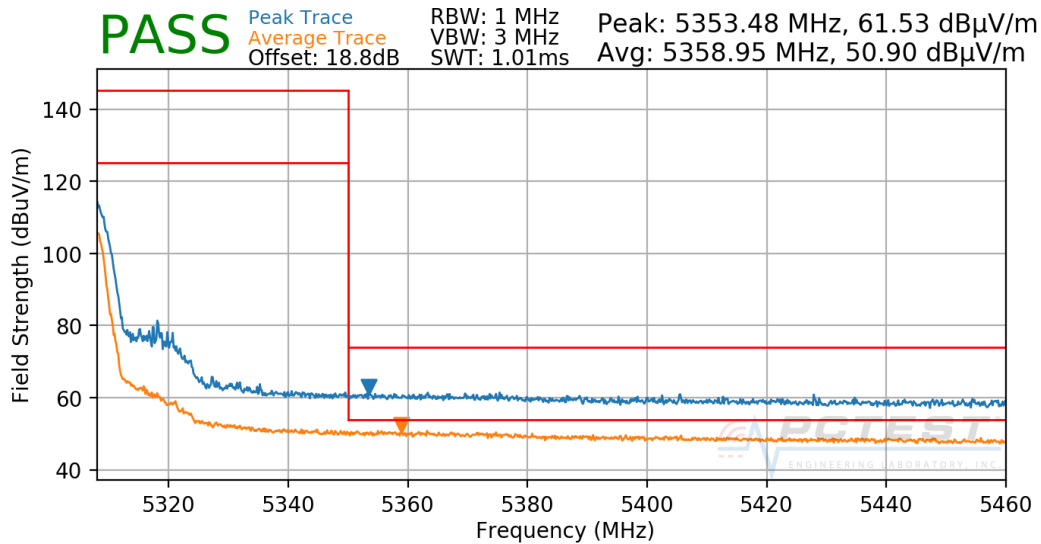
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5200MHz  
Channel: 40



Plot 7-266. Radiated Lower Band Edge Plot CDD (UNII Band 1)

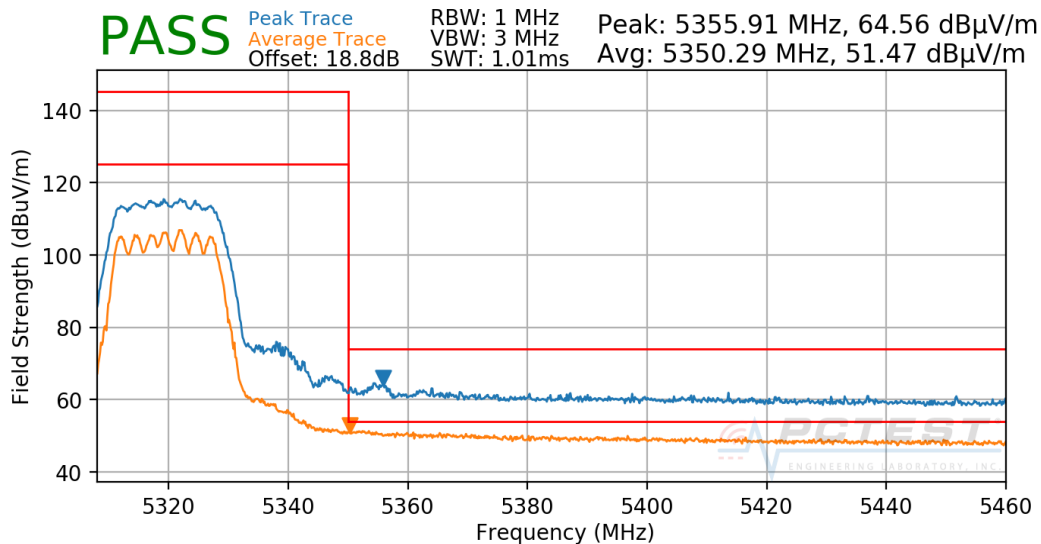
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 186 of 207

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



**Plot 7-267. Radiated Upper Band Edge Plot CDD (UNII Band 2A)**

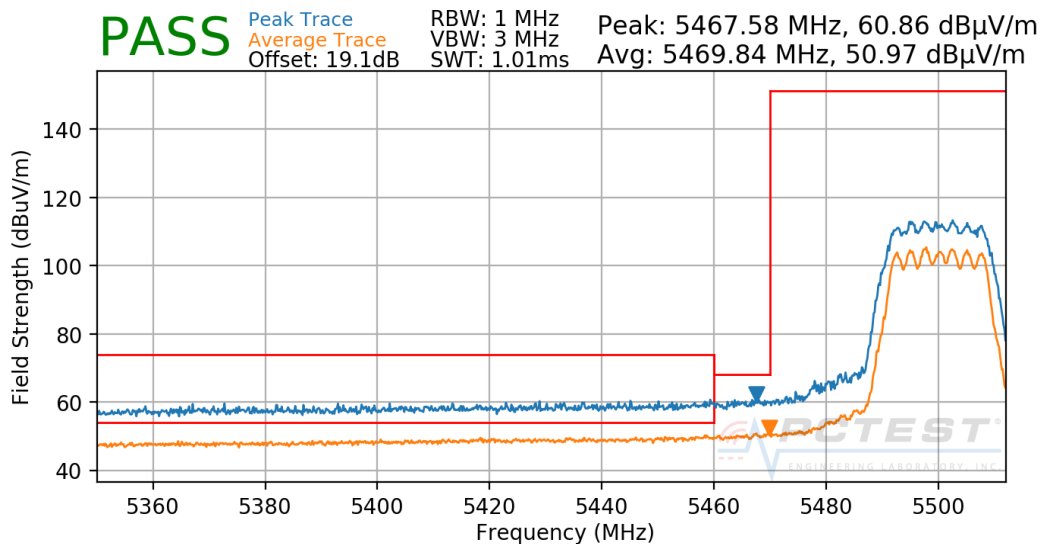
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5320MHz  
Channel: 64



**Plot 7-268. Radiated Upper Band Edge Plot CDD (UNII Band 2A)**

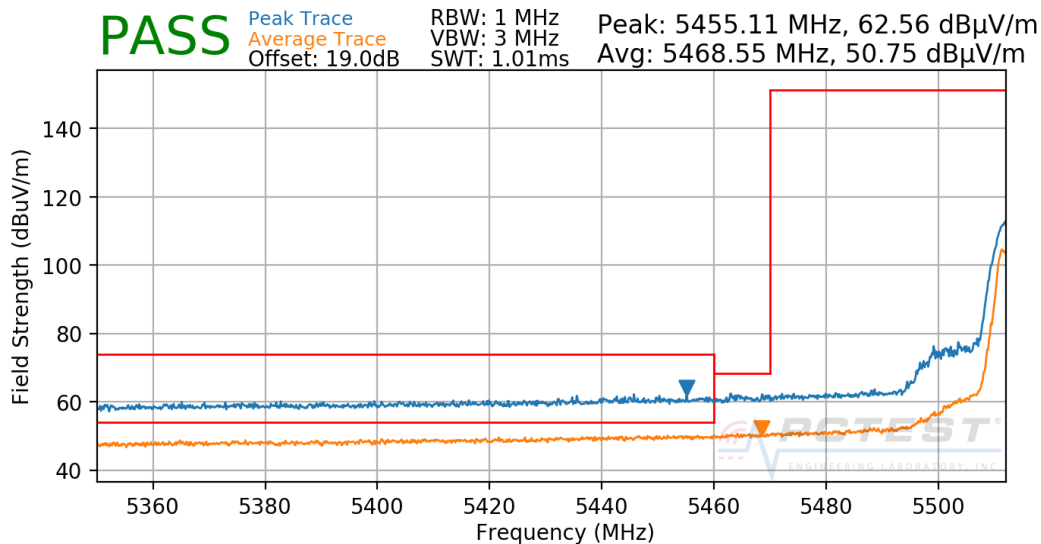
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 187 of 207

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



**Plot 7-269. Radiated Lower Band Edge Plot CDD (UNII Band 2C)**

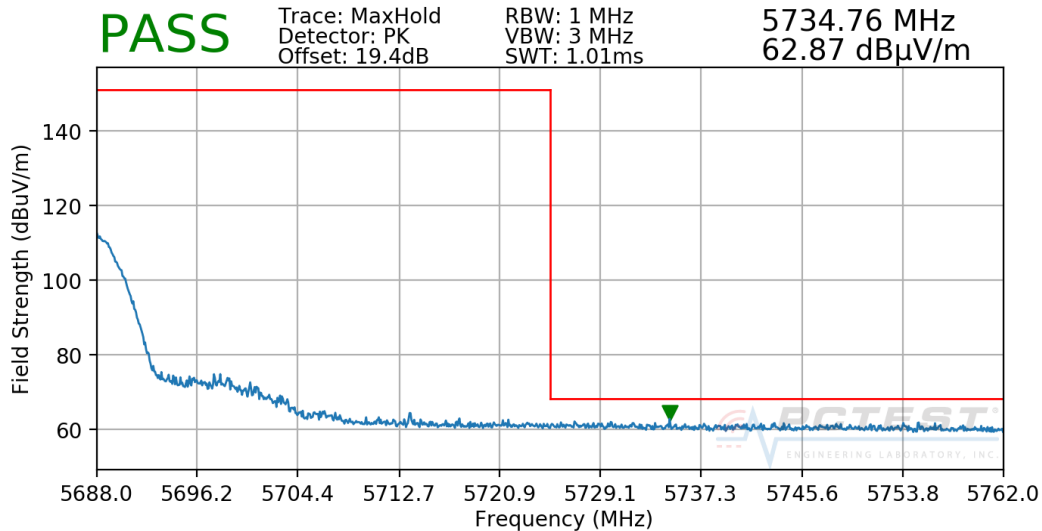
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5520MHz  
Channel: 104



**Plot 7-270. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 2C)**

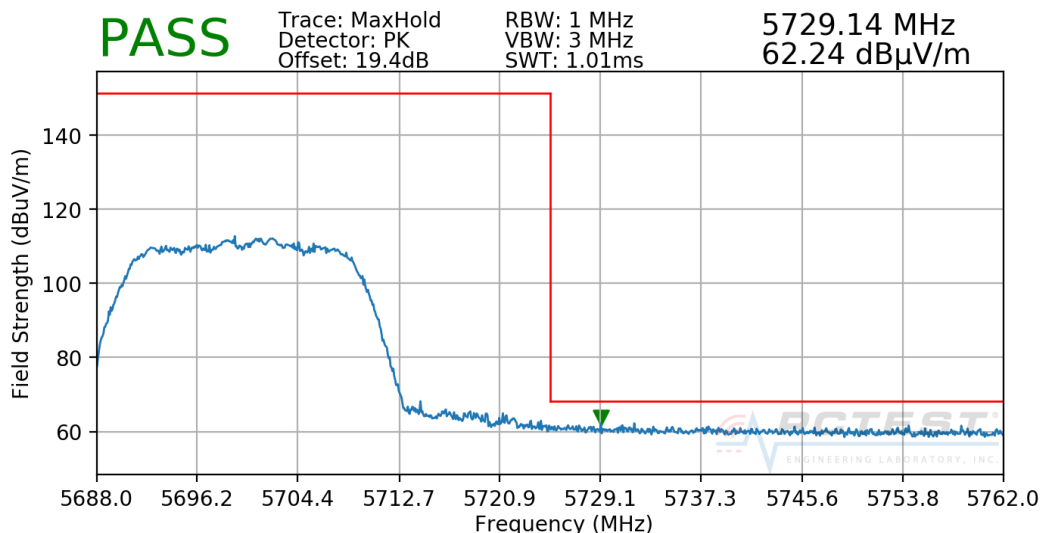
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 188 of 207

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



**Plot 7-271. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2C)**

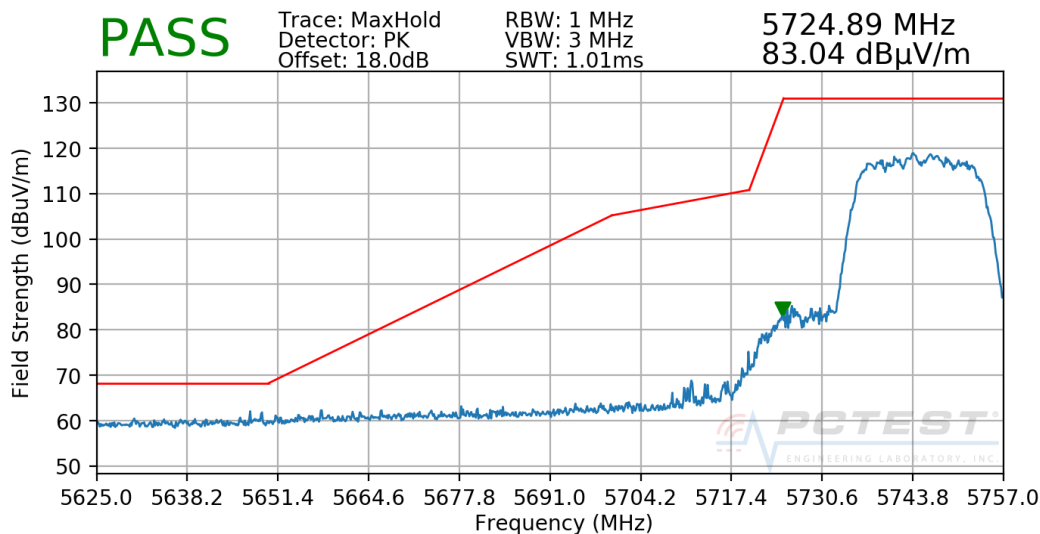
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5700MHz  
Channel: 140



**Plot 7-272. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2C)**

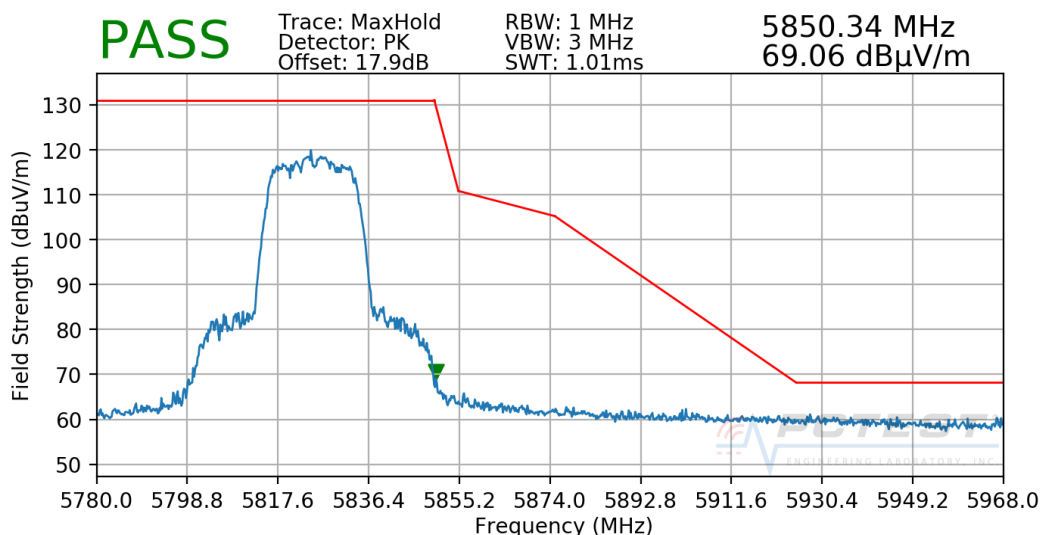
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 189 of 207

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



**Plot 7-273. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 3)**

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



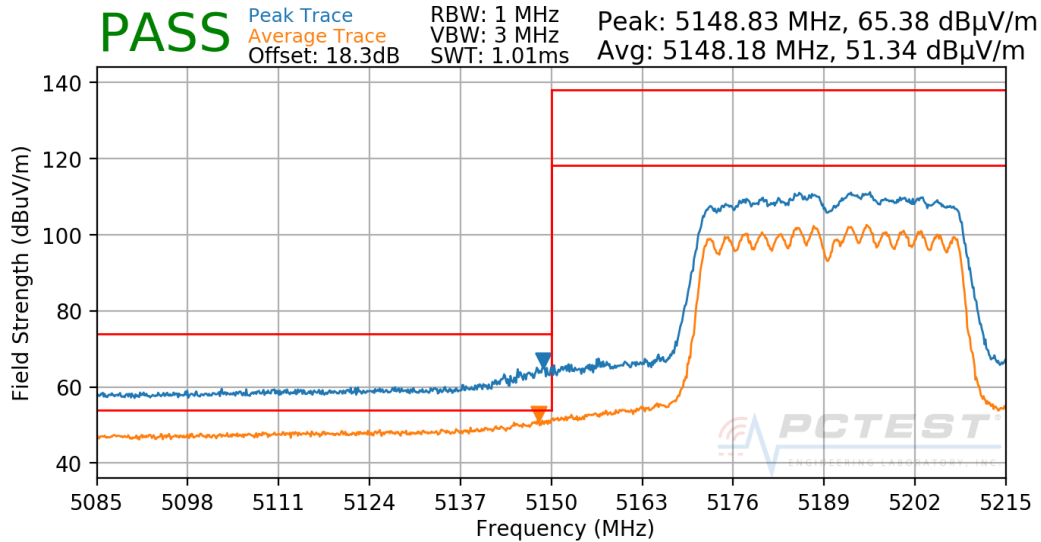
**Plot 7-274. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 3)**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 190 of 207

## 7.6.11 CDD Radiated Band Edge Measurements (40MHz BW)

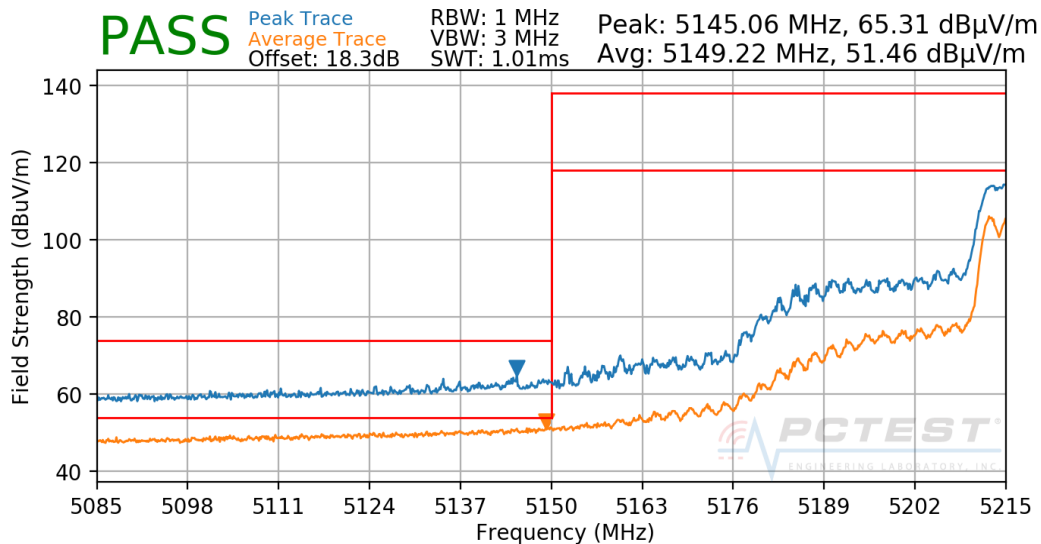
**\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]**

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



**Plot 7-275. Radiated Lower Band Edge Plot CDD (UNII Band 1)**

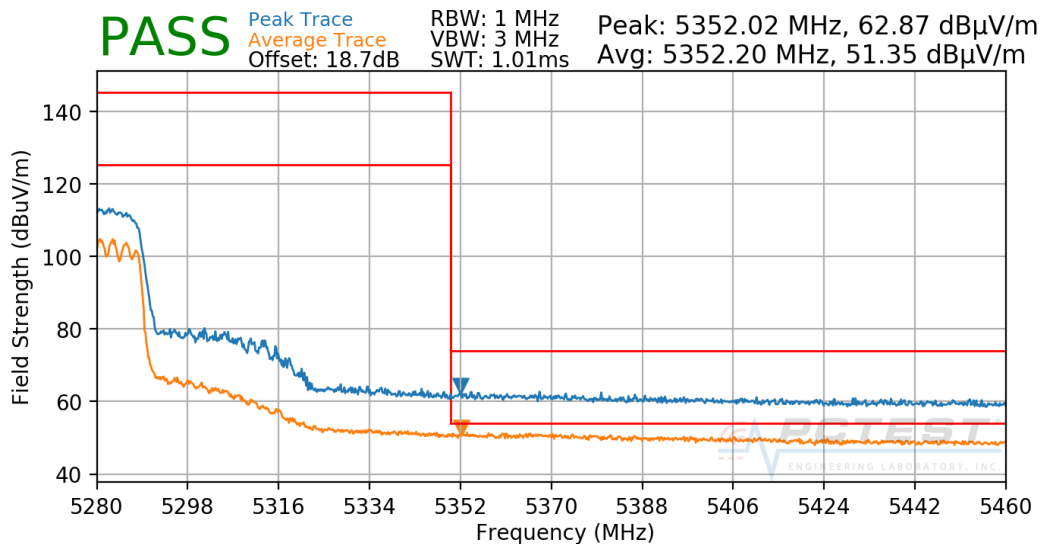
Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5230MHz
Channel:	46



**Plot 7-276. Radiated Lower Band Edge Plot CDD (UNII Band 1)**

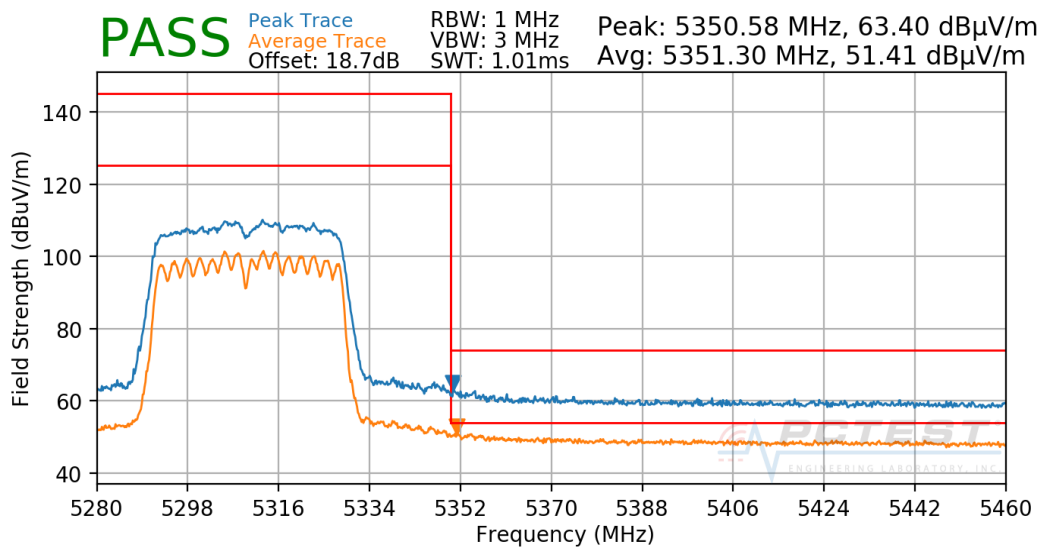
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 191 of 207

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



**Plot 7-277. 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

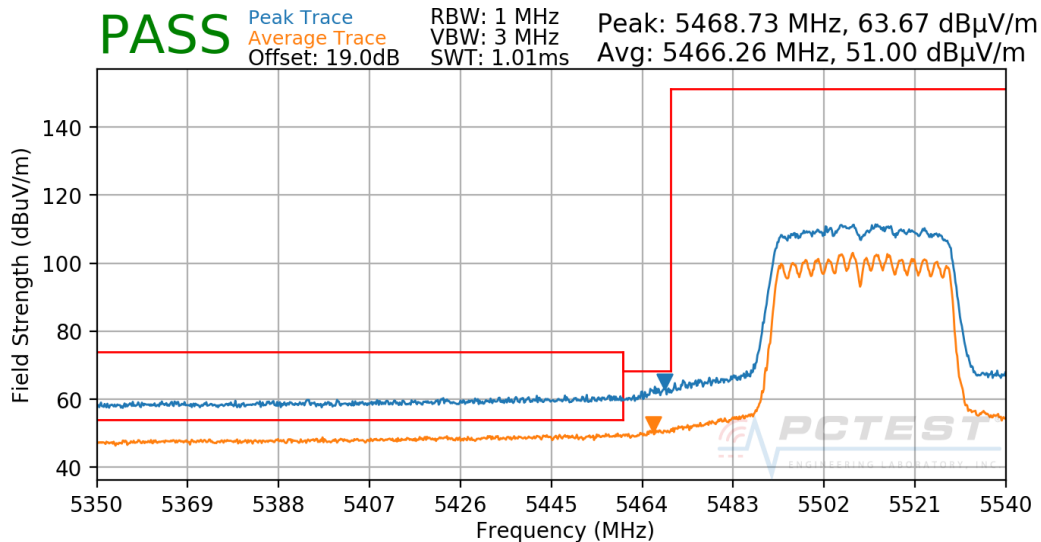


**Plot 7-278. Radiated Upper Band Edge Plot CDD (UNII Band 2A)**

FCC ID: BCGA1895	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device		Page 192 of 207

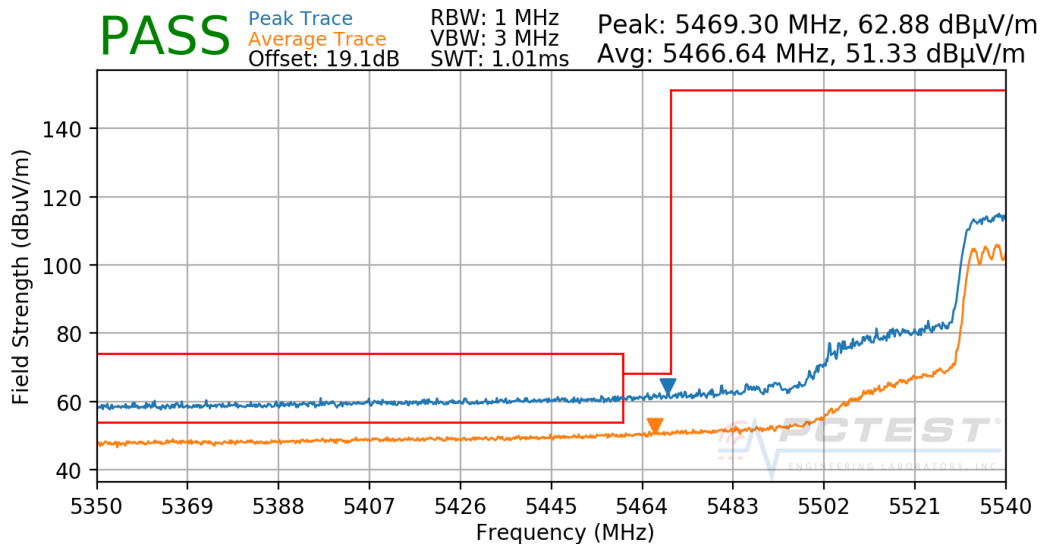


Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5510MHz  
Channel: 102



**Plot 7-279. Radiated Lower Band Edge Plot CDD (UNII Band 2C)**

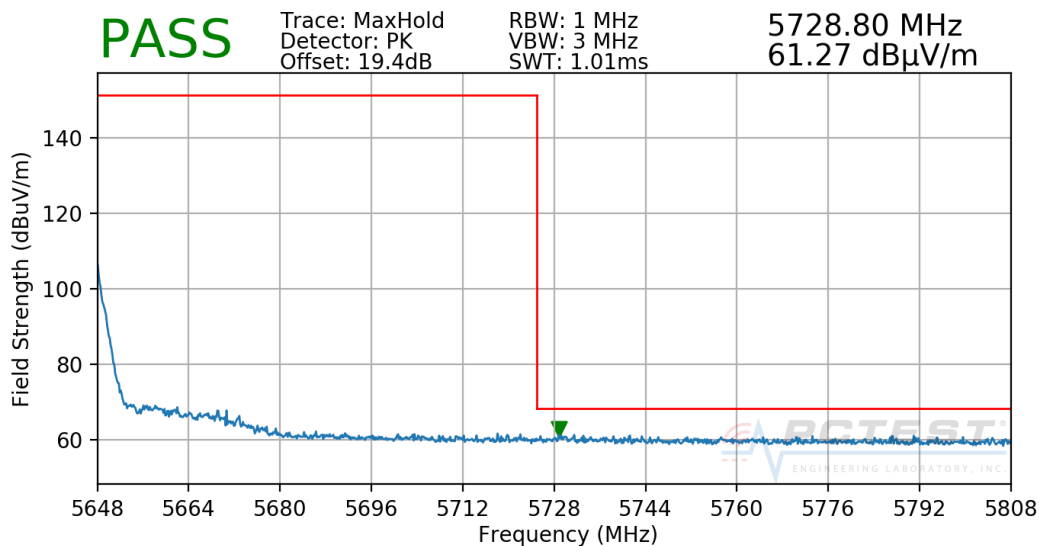
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5550MHz  
Channel: 110



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

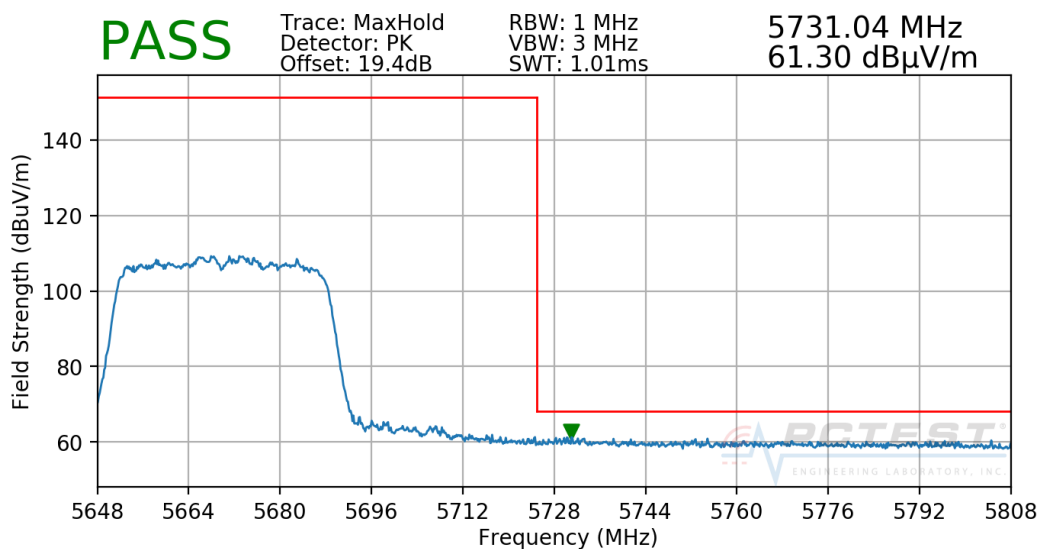
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 193 of 207

Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5630MHz  
Channel: 126



**Plot 7-281. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2C)**

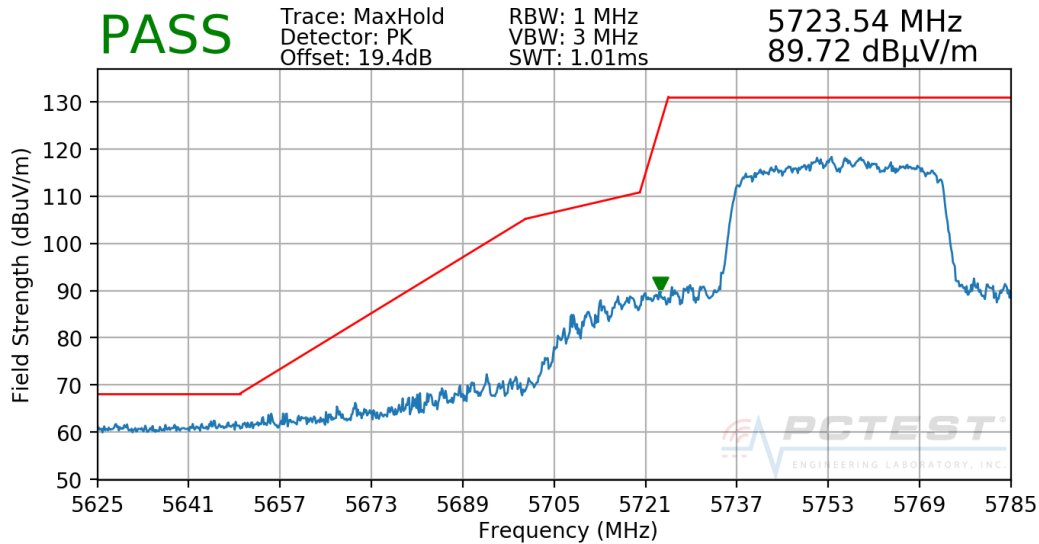
Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5670MHz  
Channel: 134



**Plot 7-282. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 2C)**

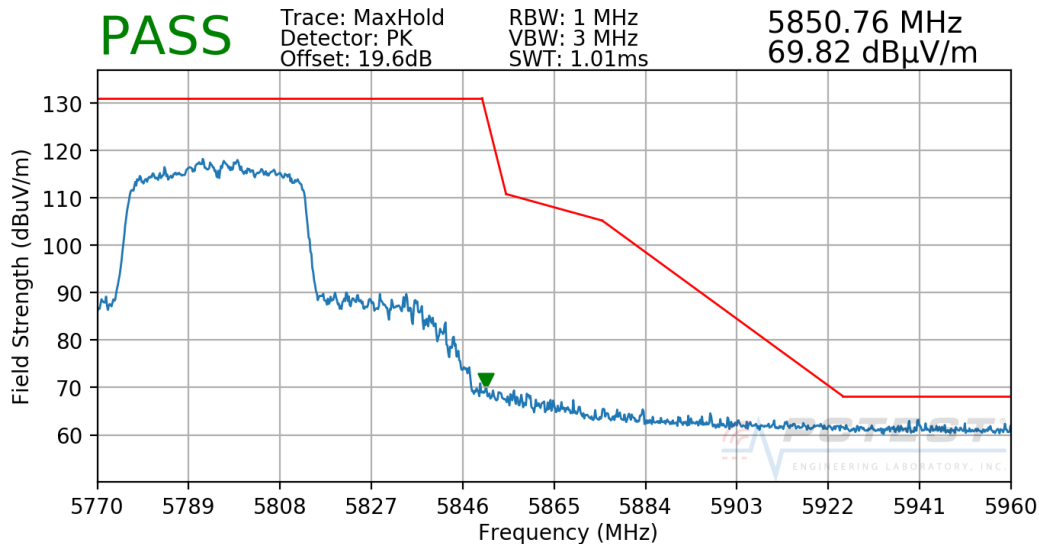
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 194 of 207

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



**Plot 7-283. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 3)**

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



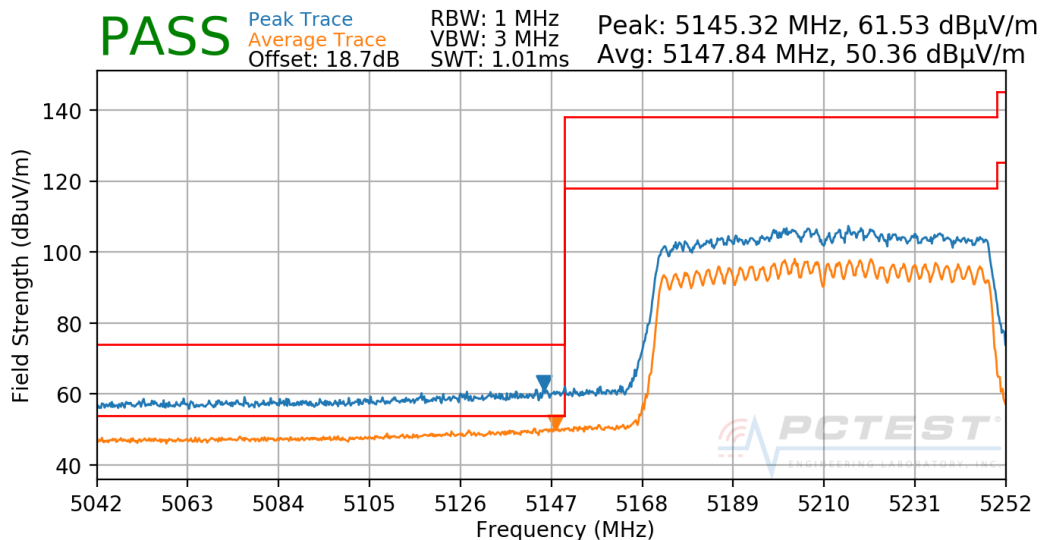
**Plot 7-284. Radiated Upper Band Edge Plot CDD (Peak - UNII Band 3)**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1C1806220014-10.BCG	Test Dates: 7/31-10/12/2018	EUT Type: Tablet Device	Page 195 of 207

## 7.6.12 CDD Radiated Band Edge Measurements (80MHz BW)

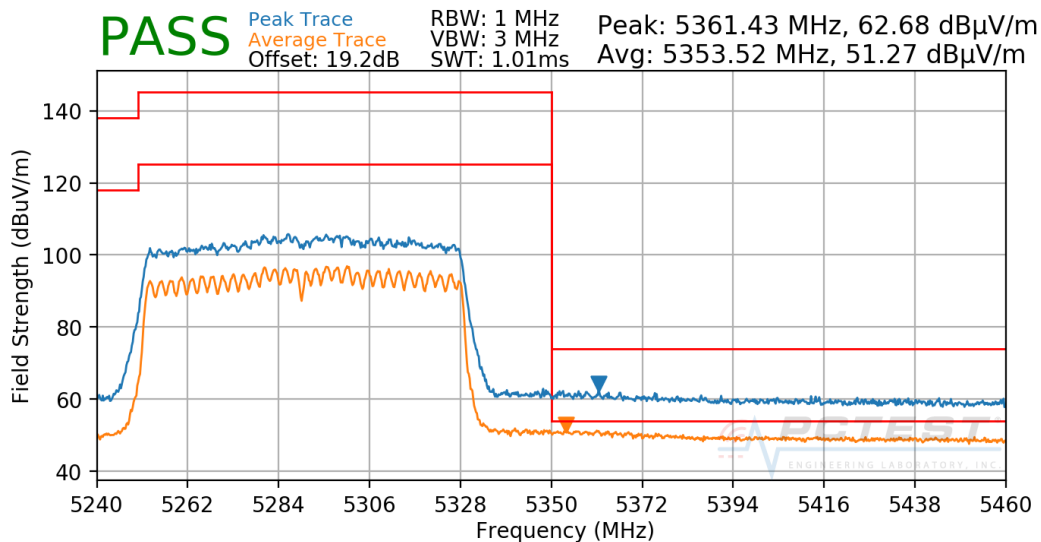
**\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]**

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



**Plot 7-285. Radiated Lower Band Edge Plot CDD (UNII Band 1)**

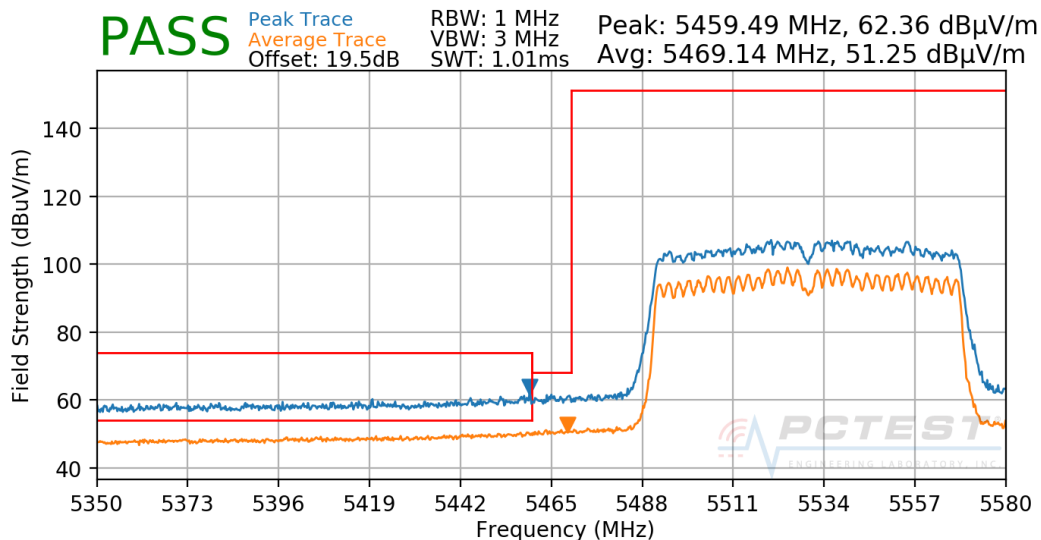
Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



**Plot 7-286. Radiated Upper Band Edge Plot CDD (UNII Band 2A)**

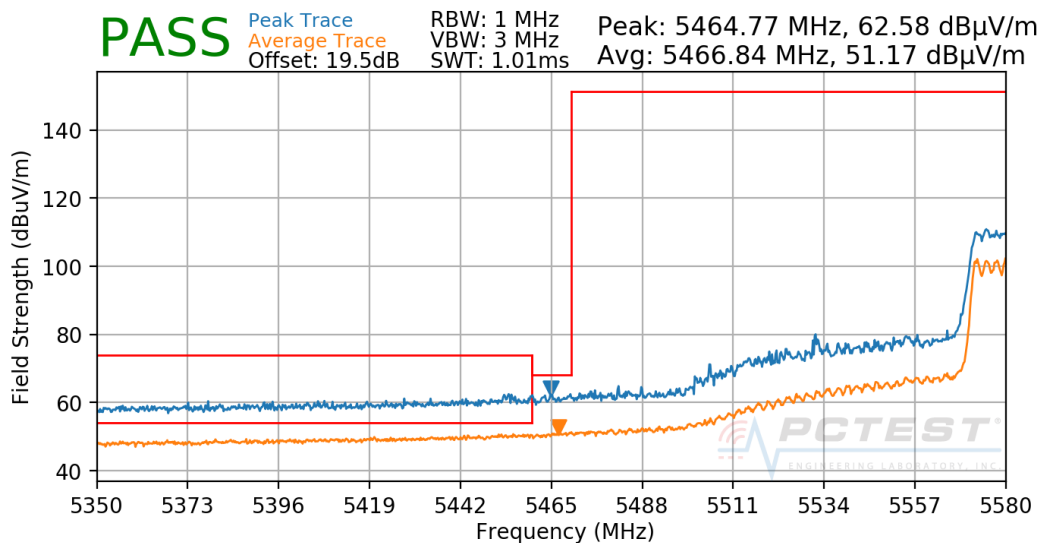
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Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106



Plot 7-287. Radiated Lower Band Edge Plot CDD (UNII Band 2C)

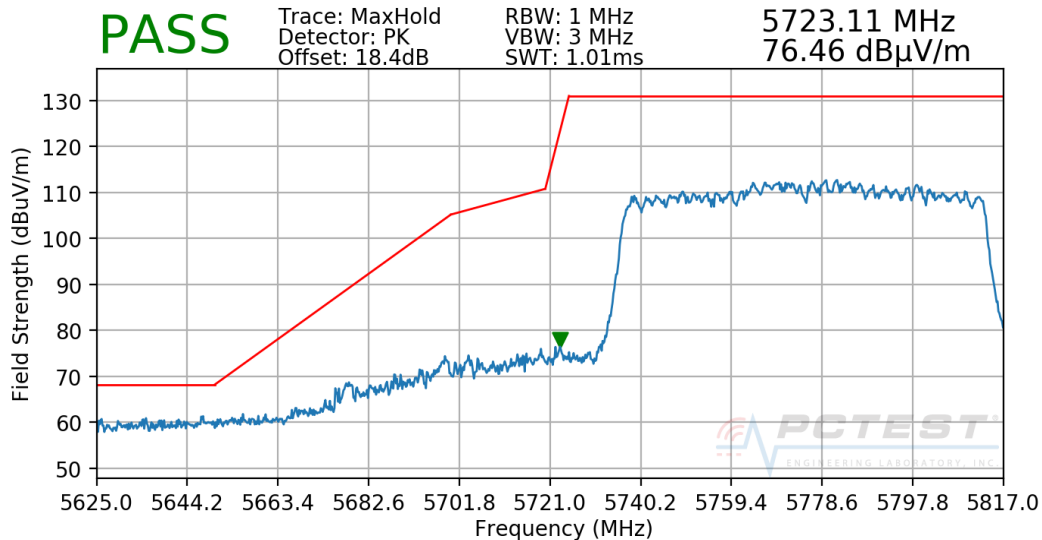
Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5610MHz  
Channel: 122



Plot 7-288. Radiated Lower Band Edge Plot CDD (UNII Band 2C)

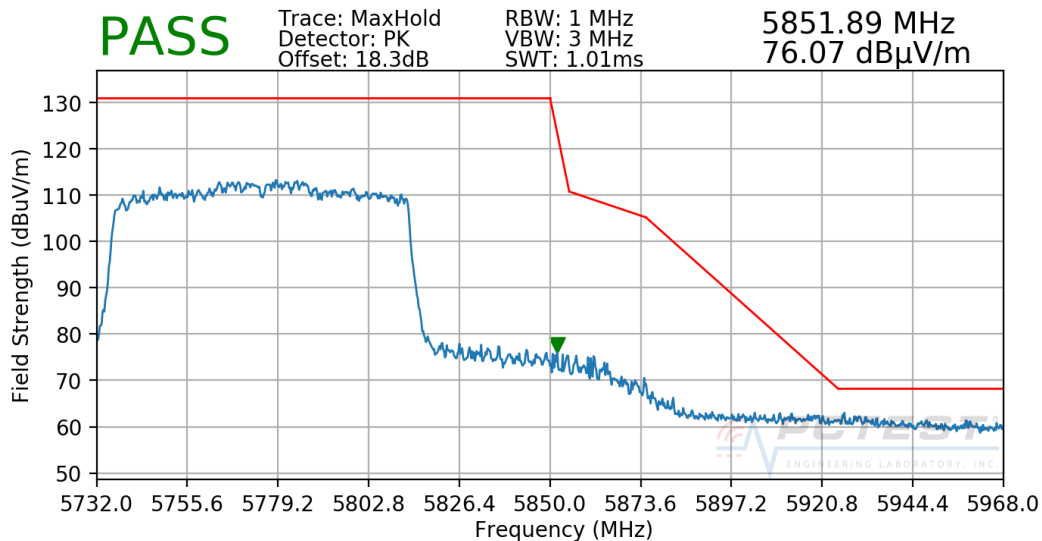
FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Worst Case Mode: 802.11ac  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



**Plot 7-289. Radiated Lower Band Edge Plot CDD (Peak - UNII Band 3)**

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



**Plot 7-290. 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 6 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

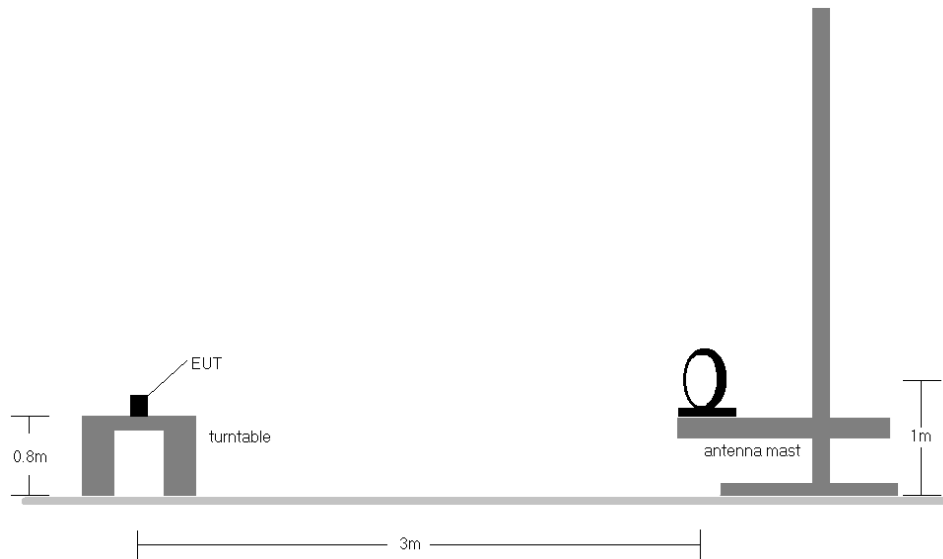
#### Quasi-Peak Field Strength Measurements

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

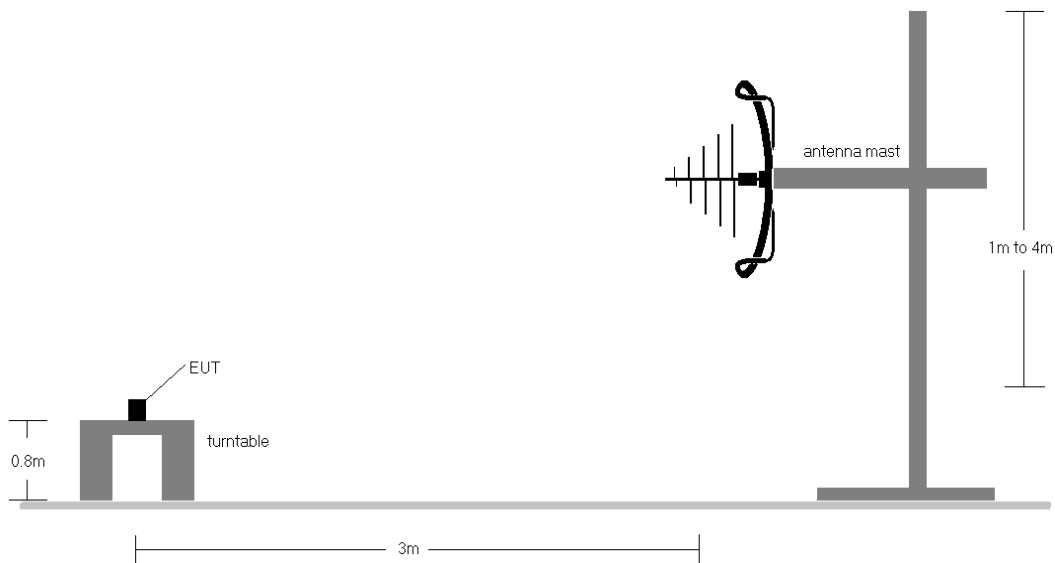
FCC ID: BCGA1895	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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## Test Setup

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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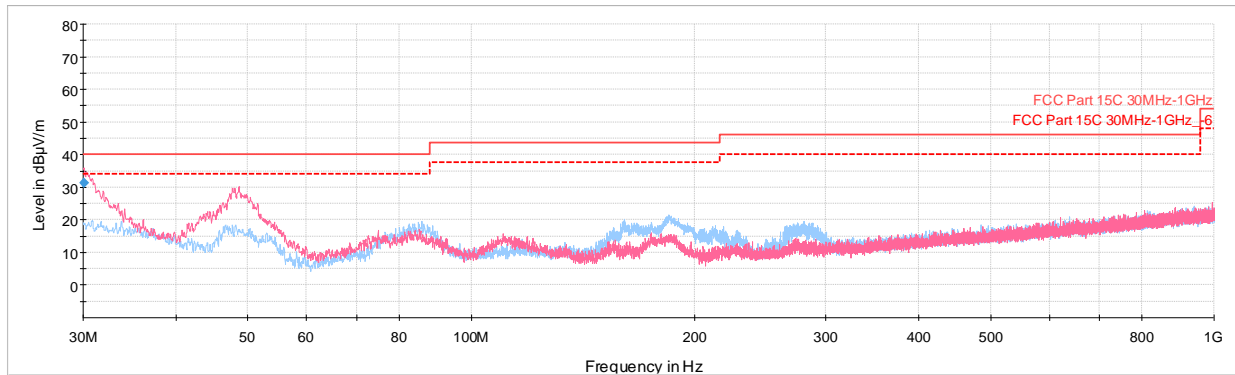
## Test Notes

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. 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]



Preview Result 1H-PK+    Preview Result 1V-PK+    FCC Part 15C 30MHz-1GHz    FCC Part 15C 30MHz-1GHz\_6    Final Result QP

**Plot 7-291. Radiated Spurious Plot below 1GHz CDD (802.11n – U3 Ch. 157 w/ AC/DC charger)**

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]
30.10	Quasi-Peak	V	100	306	-68.12	-8.93	29.95	40.00	-10.05
48.67	Max Peak	V	100	15	-56.40	-20.51	30.09	40.00	-9.91
85.78	Max Peak	H	250	186	-69.02	-18.38	19.60	40.00	-20.40
110.37	Max Peak	V	100	322	-74.25	-17.15	15.60	43.52	-27.92
184.04	Max Peak	H	100	262	-66.34	-19.34	21.32	43.52	-22.20
280.45	Max Peak	H	100	295	-71.19	-16.30	19.51	46.02	-26.51

**Table 7-73. Radiated Spurious Emissions below 1GHz CDD (802.11n – U3 Ch. 157 w/ AC/DC charger)**

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## 7.8 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

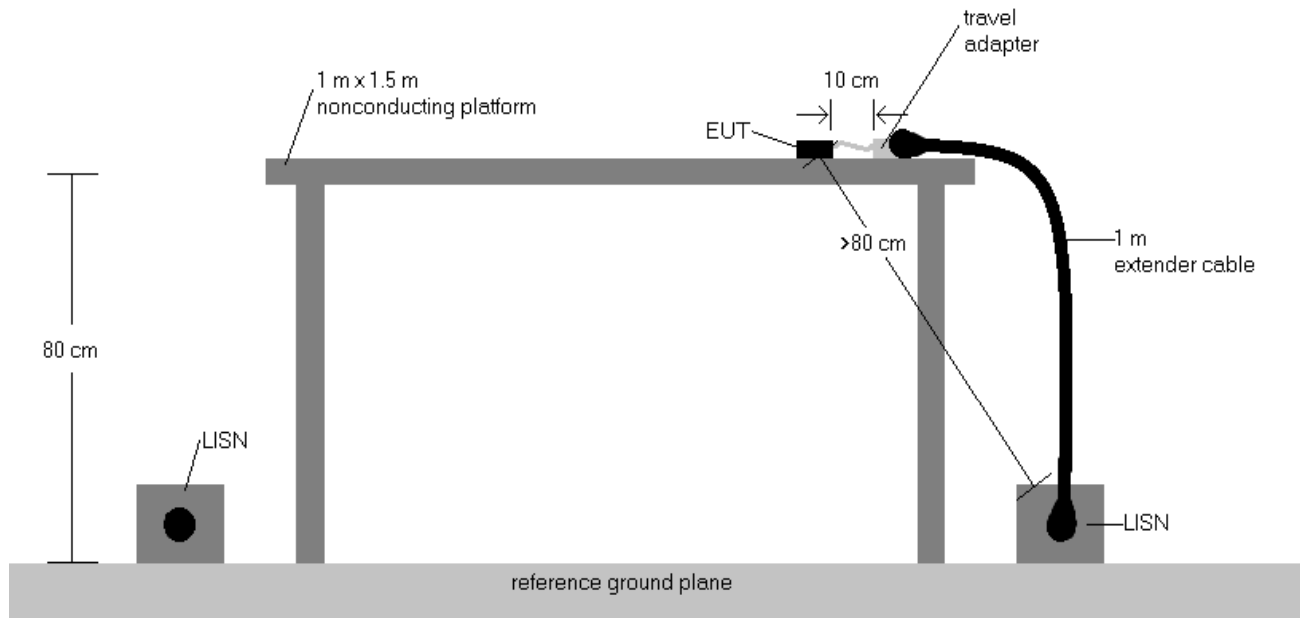
#### Average Field Strength Measurements

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.

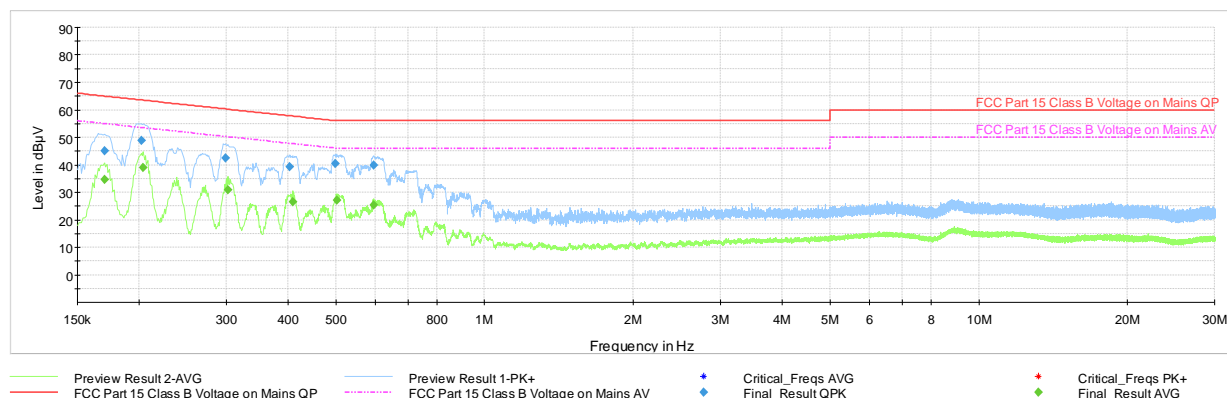


**Figure 7-8. Test Instrument & Measurement Setup**

## 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.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
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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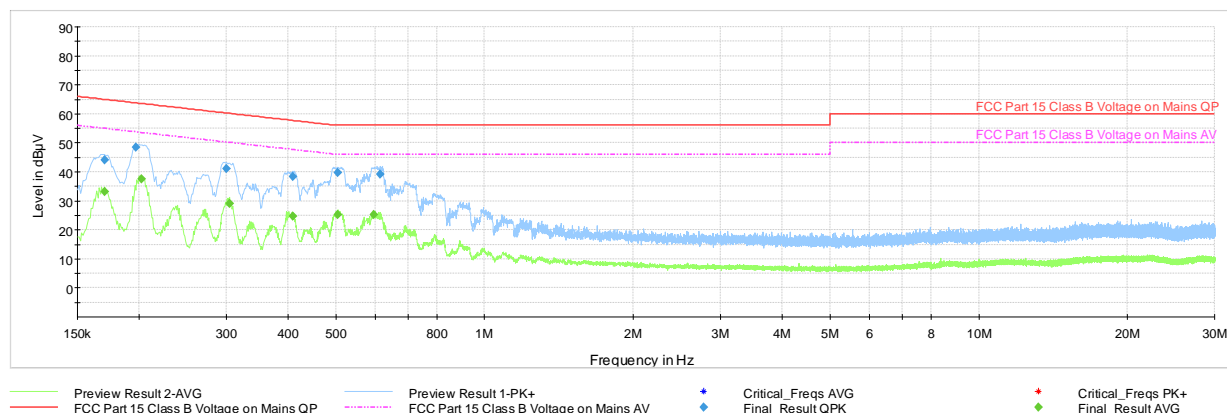


**Plot 7-292. Line Conducted Plot with 802.11n UNII Band 1 (L1) w/ AC/DC charger**

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBμV	Margin dB	Bandwidth kHz	Line	PE
0.170000	FINAL	—	34.55	54.96	-20.41	9.000	L1	GND
0.170000	FINAL	45.04	—	64.96	-19.92	9.000	L1	GND
0.202000	FINAL	48.97	—	63.53	-14.56	9.000	L1	GND
0.204000	FINAL	—	38.99	53.45	-14.46	9.000	L1	GND
0.299000	FINAL	42.47	—	60.27	-17.80	9.000	L1	GND
0.302000	FINAL	—	30.85	50.19	-19.34	9.000	L1	GND
0.403000	FINAL	39.26	—	57.79	-18.53	9.000	L1	GND
0.409000	FINAL	—	26.48	47.67	-21.19	9.000	L1	GND
0.499000	FINAL	40.35	—	56.02	-15.67	9.000	L1	GND
0.503000	FINAL	—	27.00	46.00	-19.00	9.000	L1	GND
0.597000	FINAL	—	25.49	46.00	-20.51	9.000	L1	GND
0.597000	FINAL	39.97	—	56.00	-16.03	9.000	L1	GND

**Plot 7-293. Line Conducted Table with 802.11n UNII Band 1 (L1) w/ AC/DC charger**

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**Plot 7-294. Line Conducted Plot with 802.11n UNII Band 1 (N) w/ AC/DC charger**

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBμV	Margin dB	Bandwidth kHz	Line	PE
0.170000	FINAL	—	33.14	54.96	-21.82	9.000	N	GND
0.170000	FINAL	43.97	—	64.96	-20.99	9.000	N	GND
0.197000	FINAL	48.36	—	63.74	-15.38	9.000	N	GND
0.202000	FINAL	—	37.64	53.53	-15.89	9.000	N	GND
0.300000	FINAL	41.11	—	60.24	-19.13	9.000	N	GND
0.305000	FINAL	—	28.98	50.11	-21.13	9.000	N	GND
0.410000	FINAL	38.24	—	57.65	-19.41	9.000	N	GND
0.410000	FINAL	—	24.79	47.65	-22.86	9.000	N	GND
0.504000	FINAL	—	25.35	46.00	-20.65	9.000	N	GND
0.505000	FINAL	39.76	—	56.00	-16.24	9.000	N	GND
0.596000	FINAL	—	25.12	46.00	-20.88	9.000	N	GND
0.614000	FINAL	39.25	—	56.00	-16.75	9.000	N	GND

**Plot 7-295. Line Conducted Table with 802.11n UNII Band 1 (N) w/ AC/DC charger**

FCC ID: BCGA1895	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		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 Inc. Tablet Device FCC ID: BCGA1895** 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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