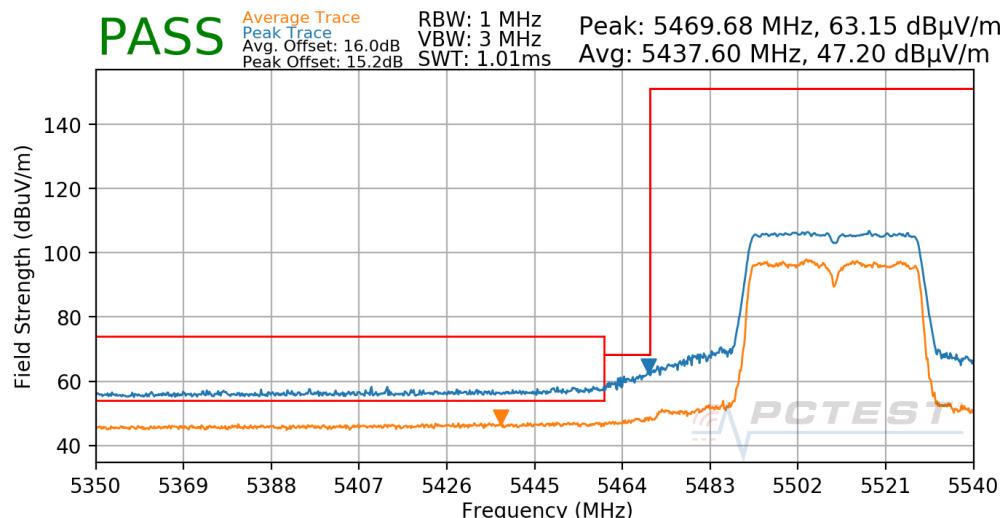
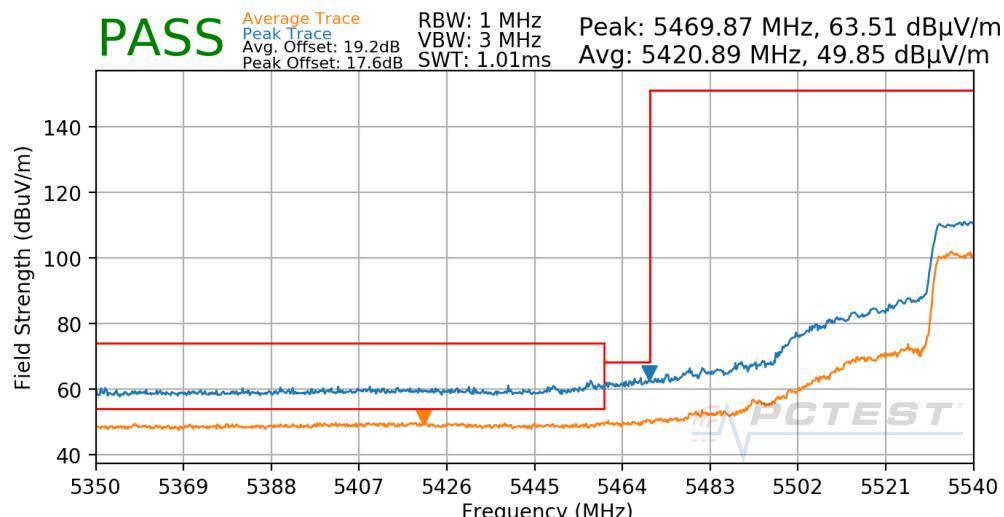


Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



Plot 7-475. Radiated Lower Band Edge Plot CDD Primary (UNII Band 2C)

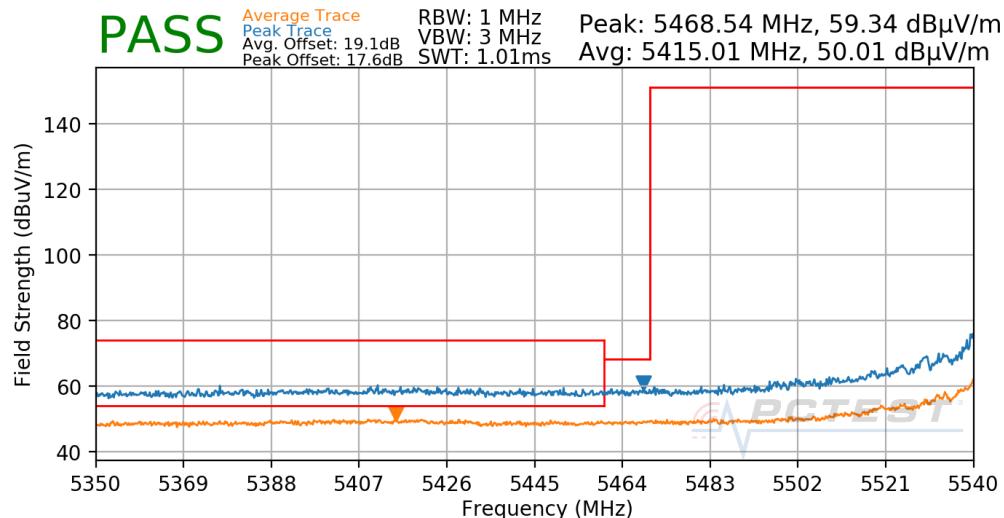
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5550MHz
 Channel: 110



Plot 7-476. Radiated Lower Band Edge Plot CDD Primary (UNII Band 2C)

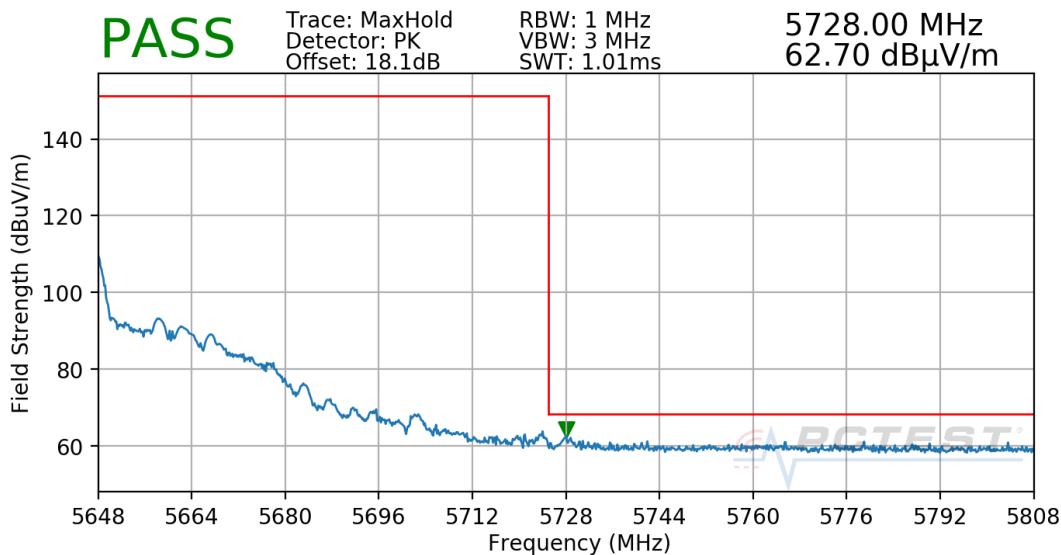
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 312 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5590MHz (FCC only)
 Channel: 118



Plot 7-477. Radiated Lower Band Edge Plot CDD Primary (UNII Band 2C)

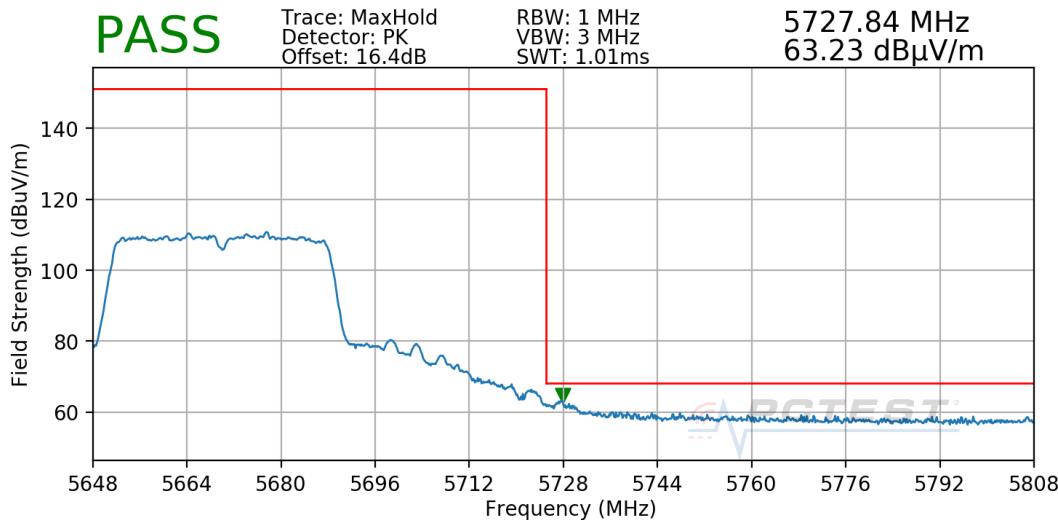
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5630MHz (FCC only)
 Channel: 126



Plot 7-478. Radiated Upper Band Edge Plot CDD Primary (Peak - UNII Band 2C)

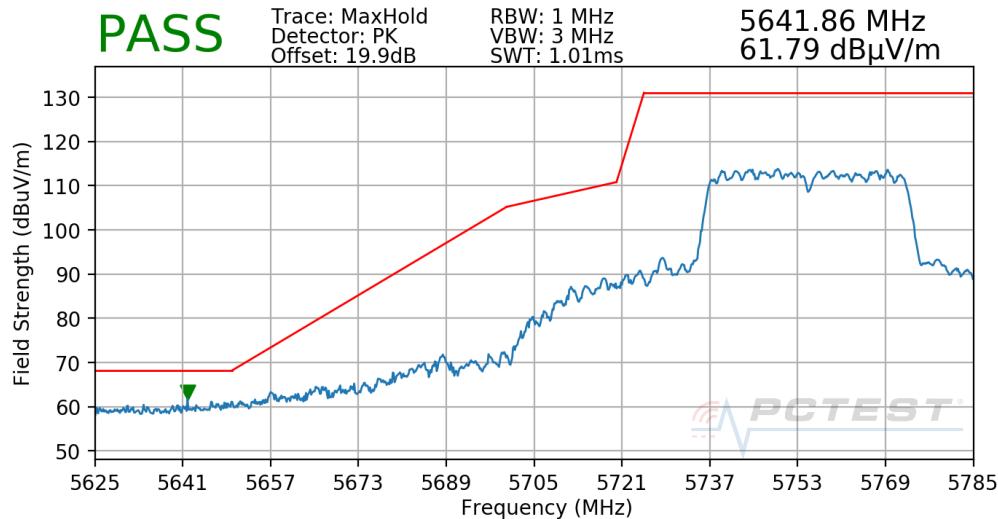
FCC ID: BCGA2072	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 313 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5670MHz
 Channel: 134



Plot 7-479. Radiated Upper Band Edge Plot CDD Primary (Peak - UNII Band 2C)

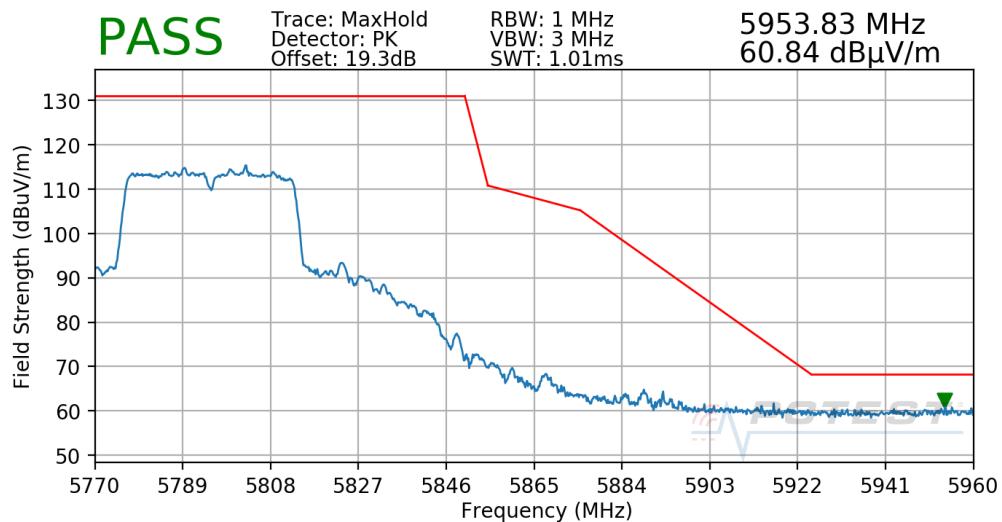
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5755MHz
 Channel: 151



Plot 7-480. Radiated Lower Band Edge Plot CDD Primary (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 314 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



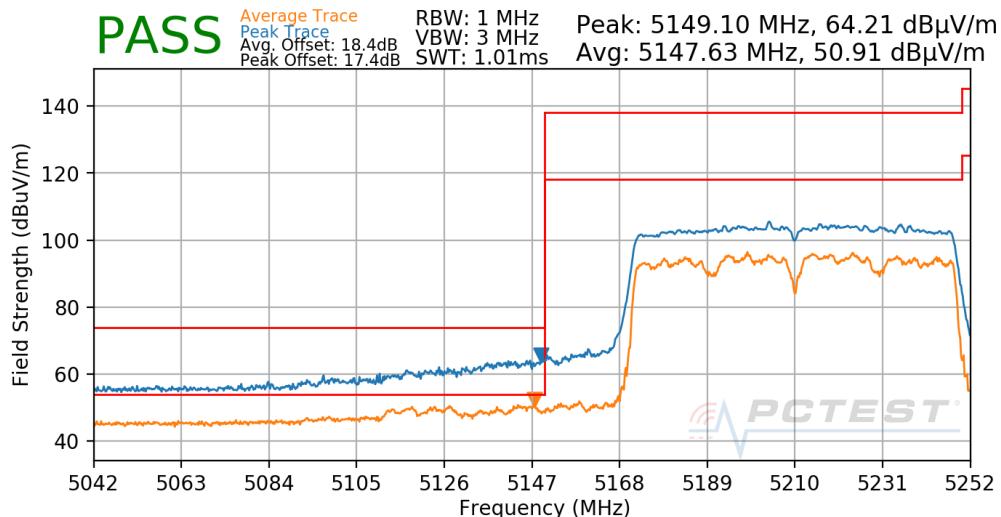
Plot 7-481. Radiated Upper Band Edge Plot CDD Primary (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 315 of 344	

7.6.15 CDD Primary Radiated Band Edge Measurements (80MHz BW)

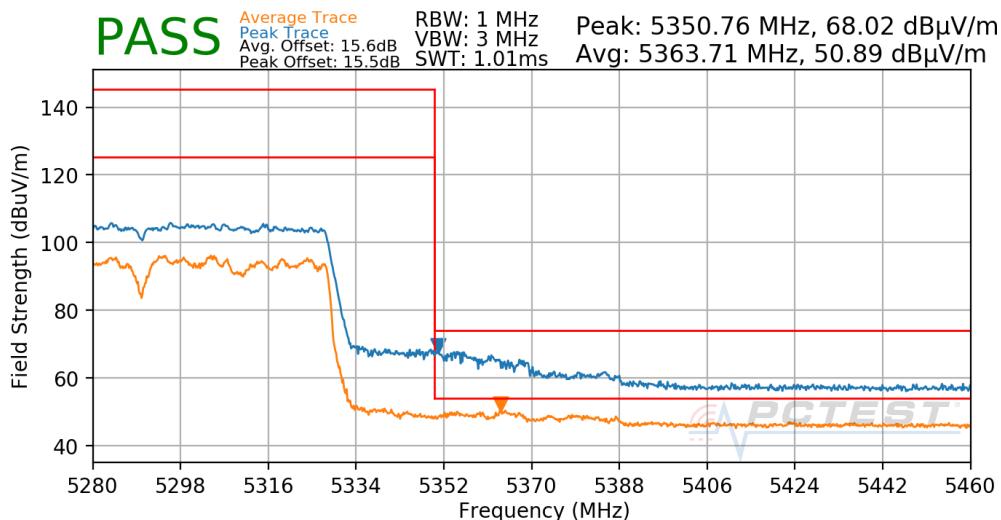
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Plot 7-482. Radiated Lower Band Edge Plot CDD Primary (UNII Band 1)

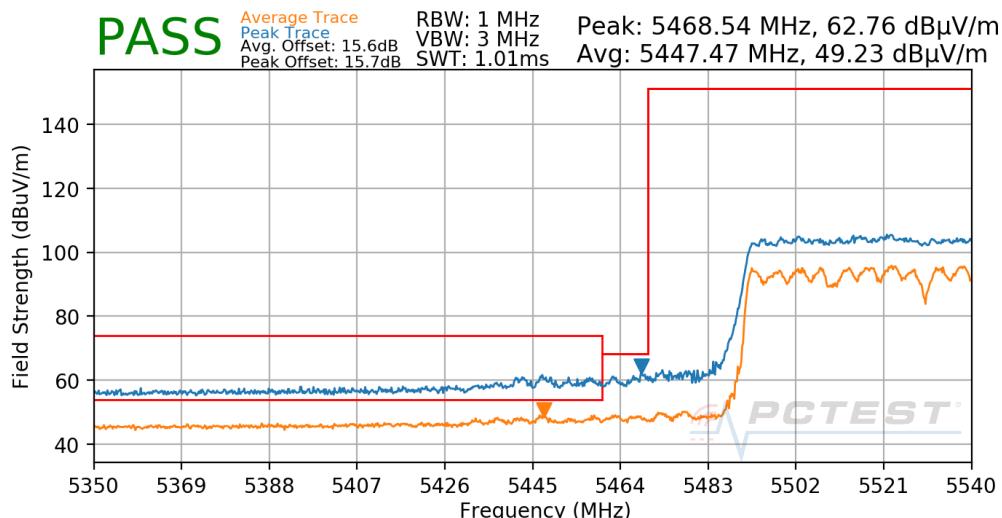
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-483. Radiated Upper Band Edge Plot CDD Primary (UNII Band 2A)

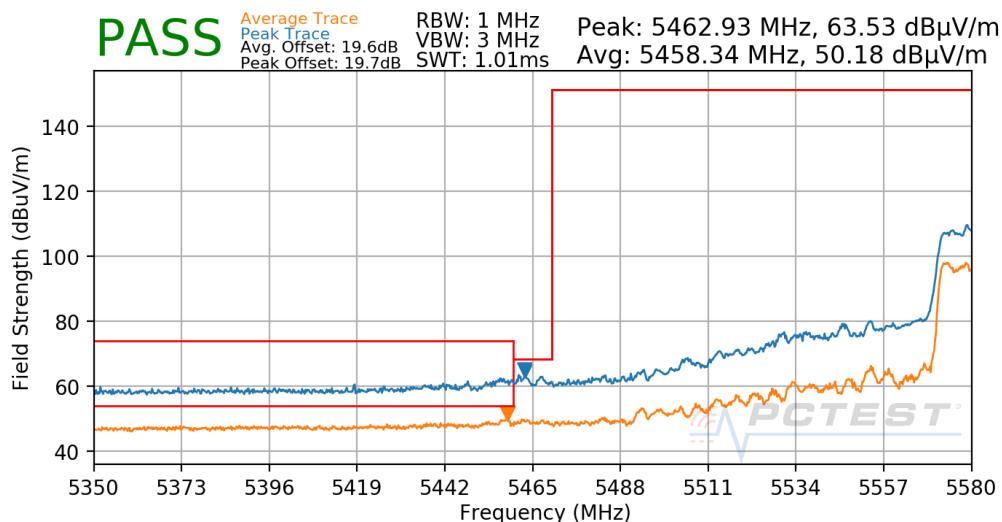
FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 316 of 344

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



Plot 7-484. Radiated Lower Band Edge Plot CDD Primary (UNII Band 2C)

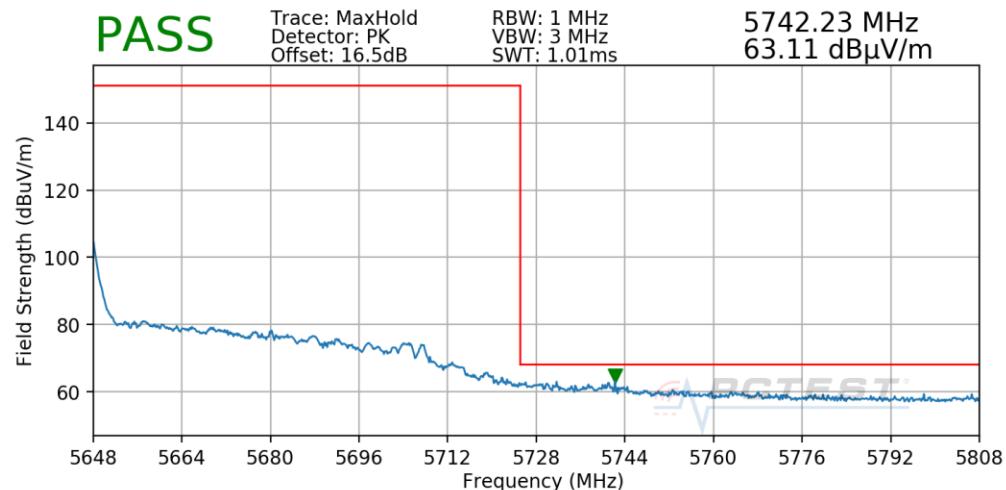
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5610MHz (FCC only)
 Channel: 122



Plot 7-485. Radiated Lower Band Edge Plot CDD Primary (UNII Band 2C)

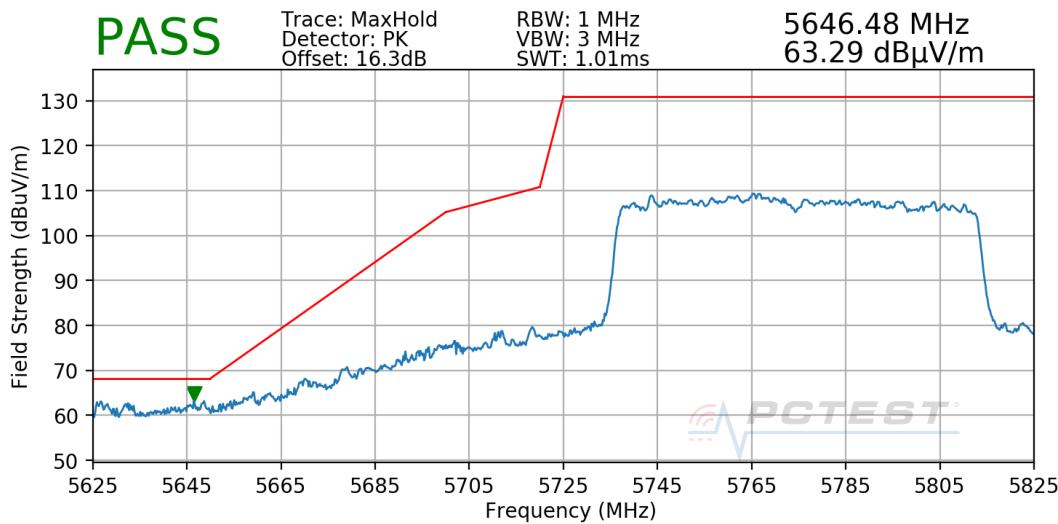
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 317 of 344	

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5610MHz (FCC only)
 Channel: 122



Plot 7-486. Radiated Upper Band Edge Plot CDD Primary (UNII Band 2C)

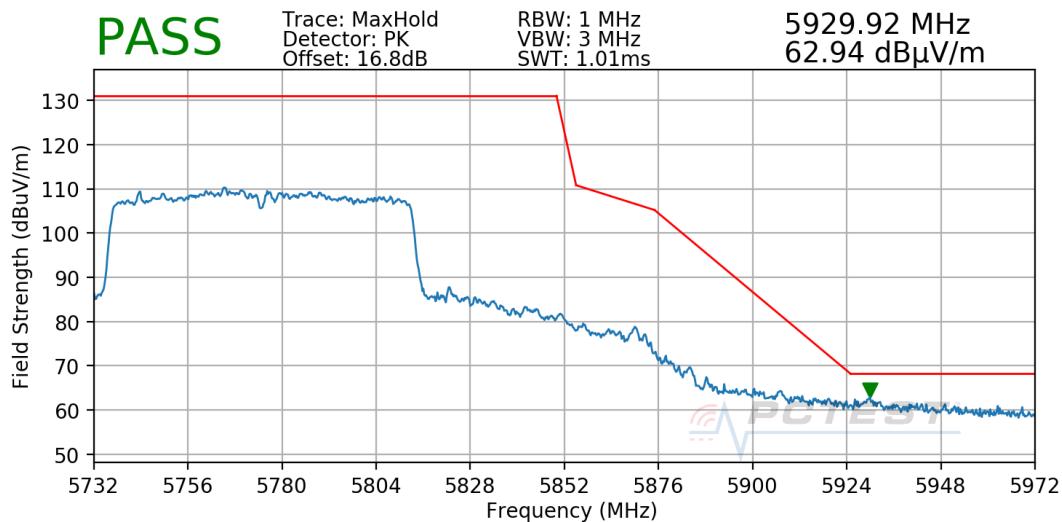
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-487. Radiated Lower Band Edge Plot CDD Primary (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 318 of 344	

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



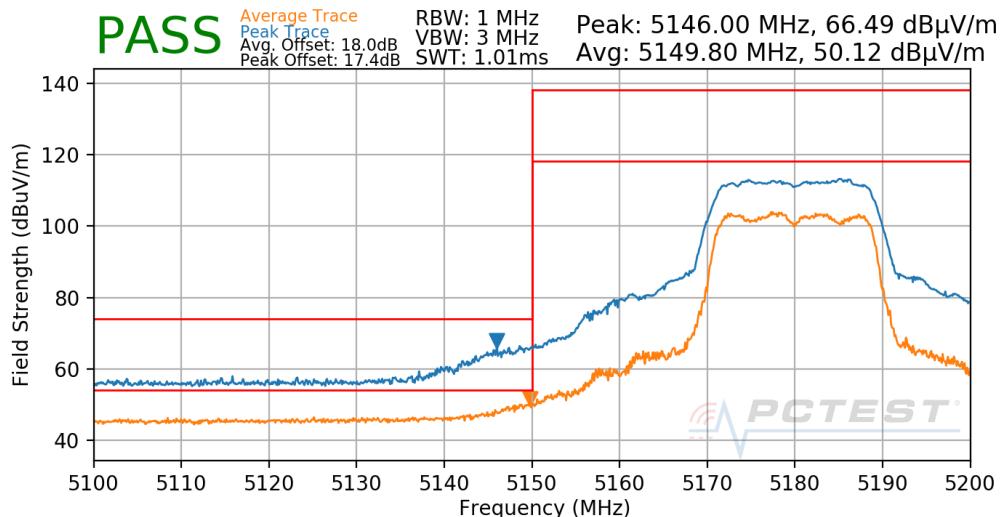
Plot 7-488. Radiated Upper Band Edge Plot CDD Primary (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 319 of 344	

7.6.16 CDD Diversity Radiated Band Edge Measurements (20MHz BW)

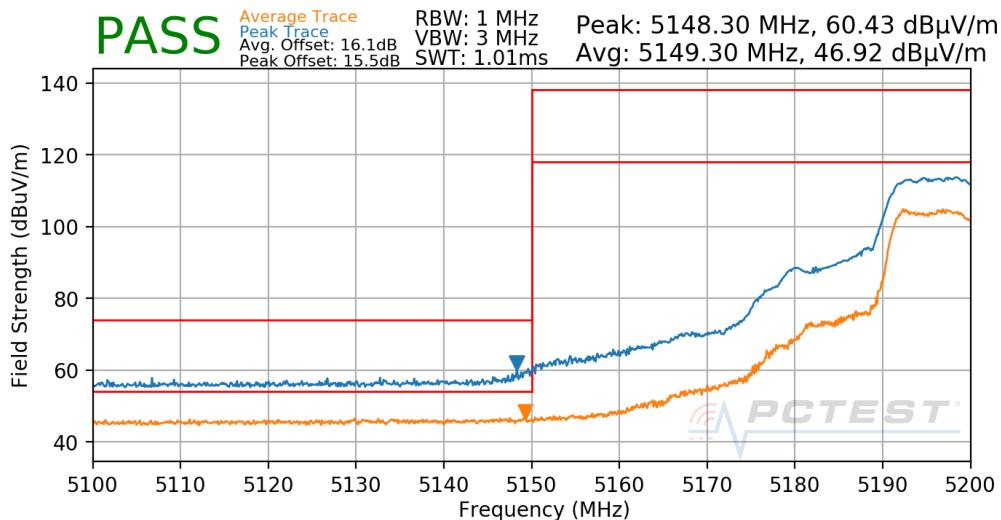
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



Plot 7-489. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 1)

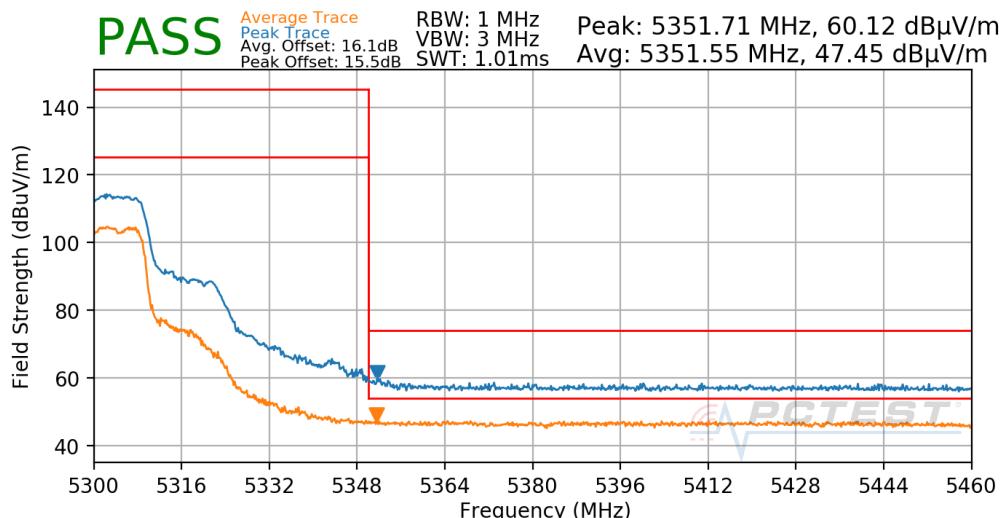
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40



Plot 7-490. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 1)

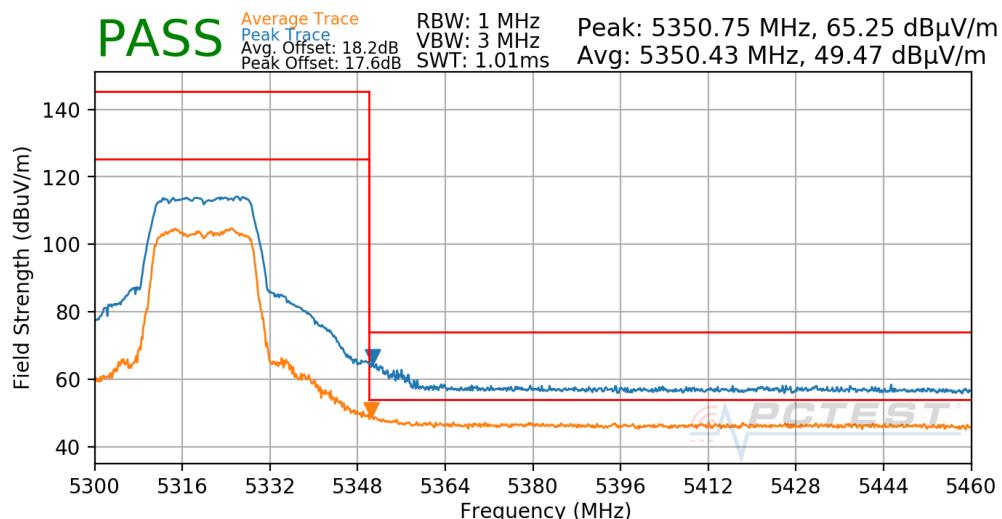
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 320 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5300MHz
 Channel: 60



Plot 7-491. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2A)

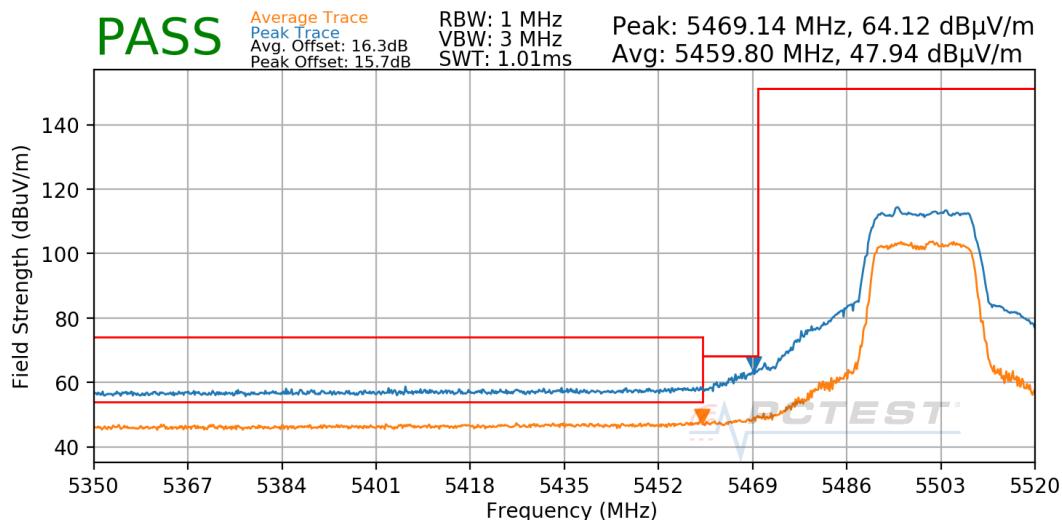
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



Plot 7-492. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2A)

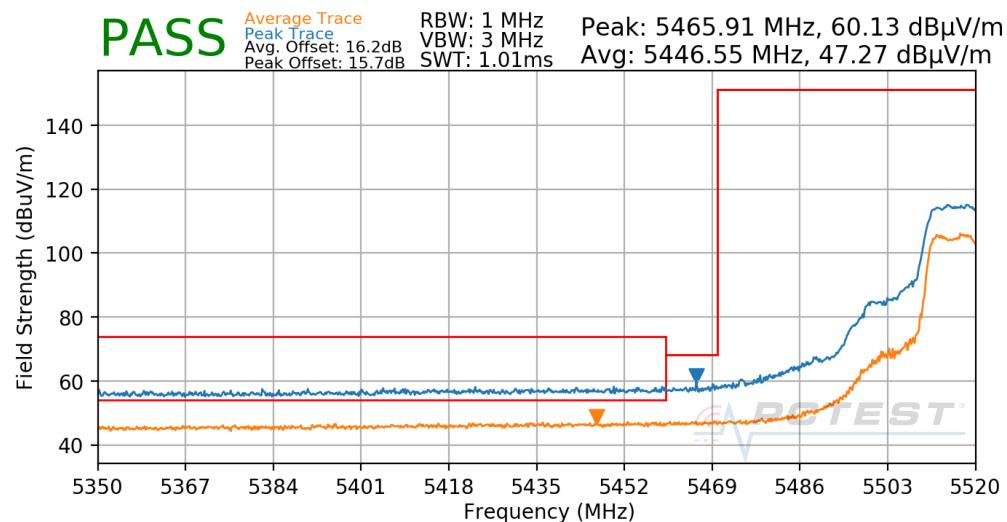
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 321 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Plot 7-493. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

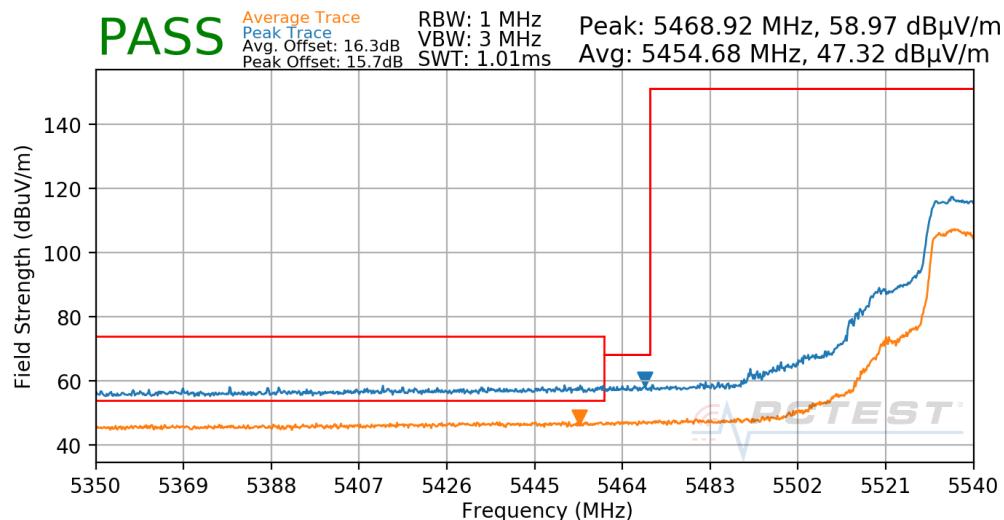
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5520MHz
 Channel: 104



Plot 7-494. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

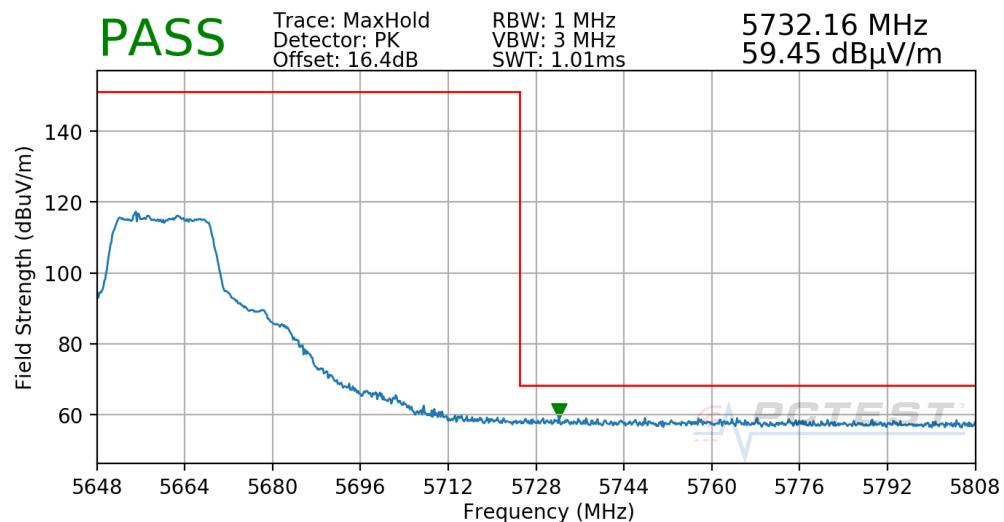
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 322 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5540MHz
 Channel: 108



Plot 7-495. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

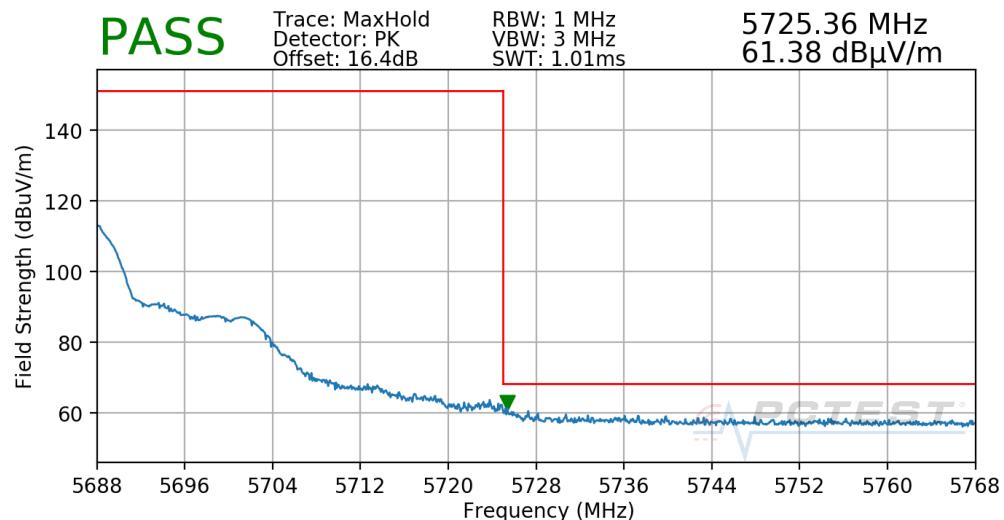
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5660MHz
 Channel: 132



Plot 7-496. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 2C)

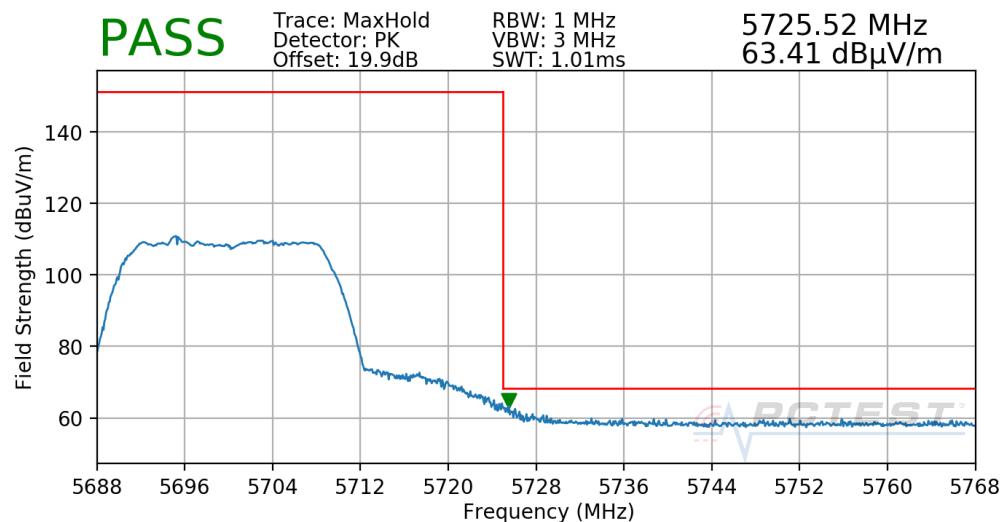
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 323 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5680MHz
 Channel: 136



Plot 7-497. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 2C)

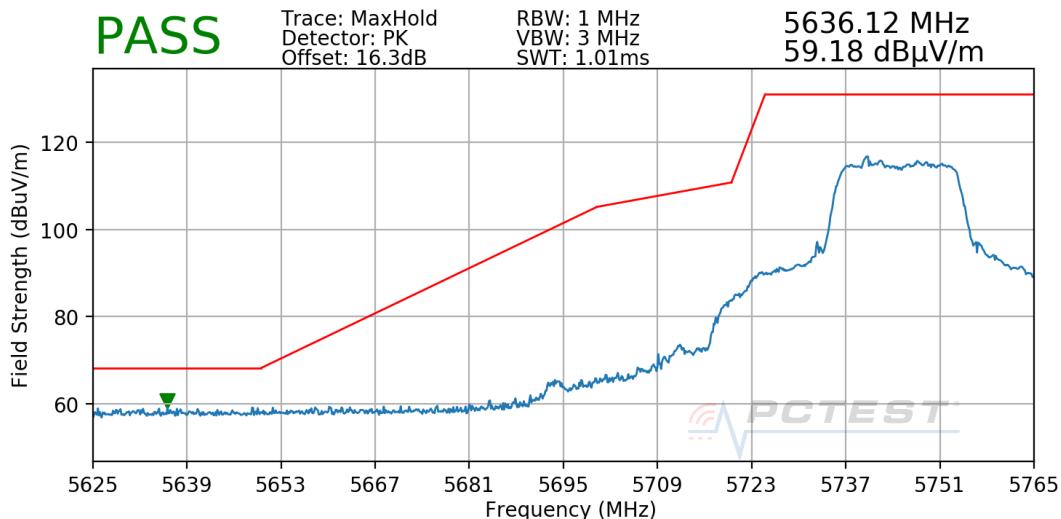
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140



Plot 7-498. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 2C)

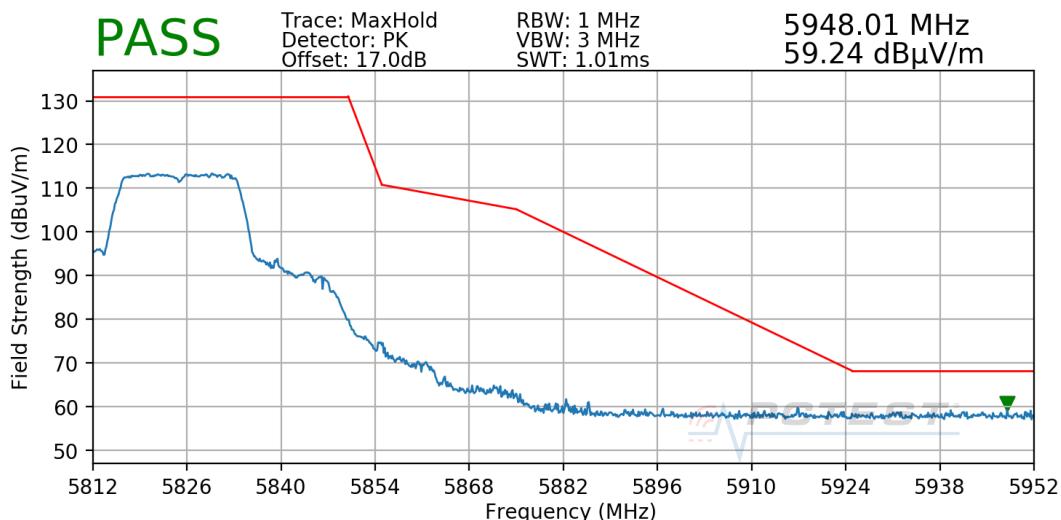
FCC ID: BCGA2072	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device			

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149



Plot 7-499. Radiated Lower Band Edge Plot CDD Diversity (Peak – UNII Band 3)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



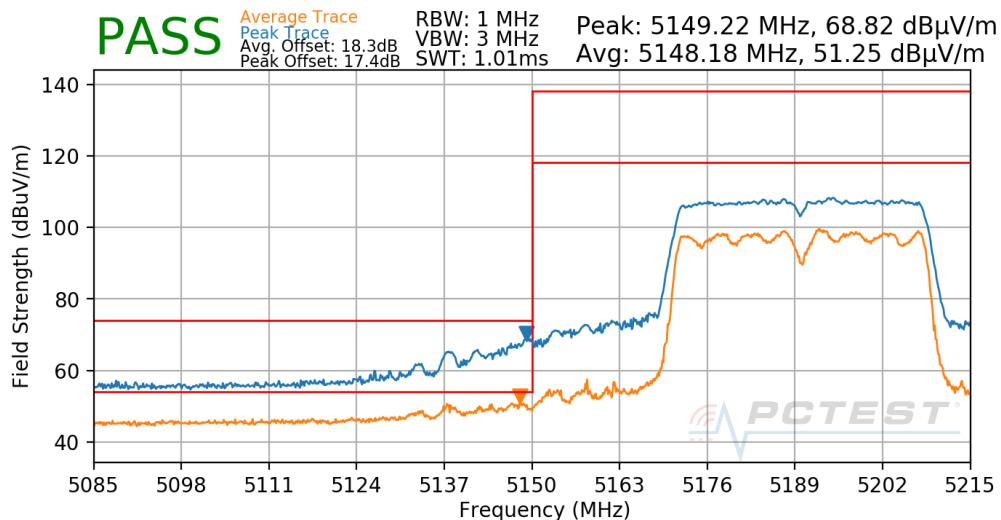
Plot 7-500. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 325 of 344	

7.6.17 CDD Diversity Radiated Band Edge Measurements (40MHz BW)

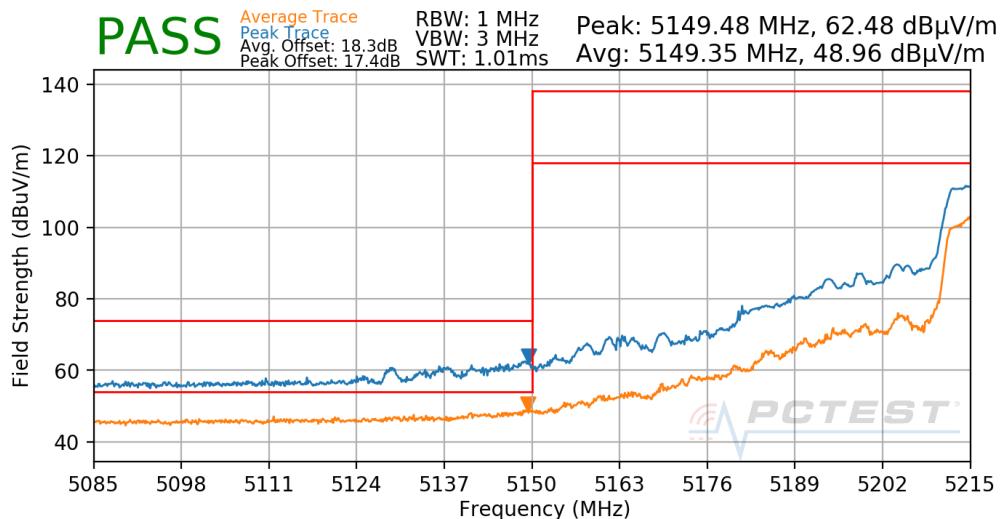
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38



Plot 7-501. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 1)

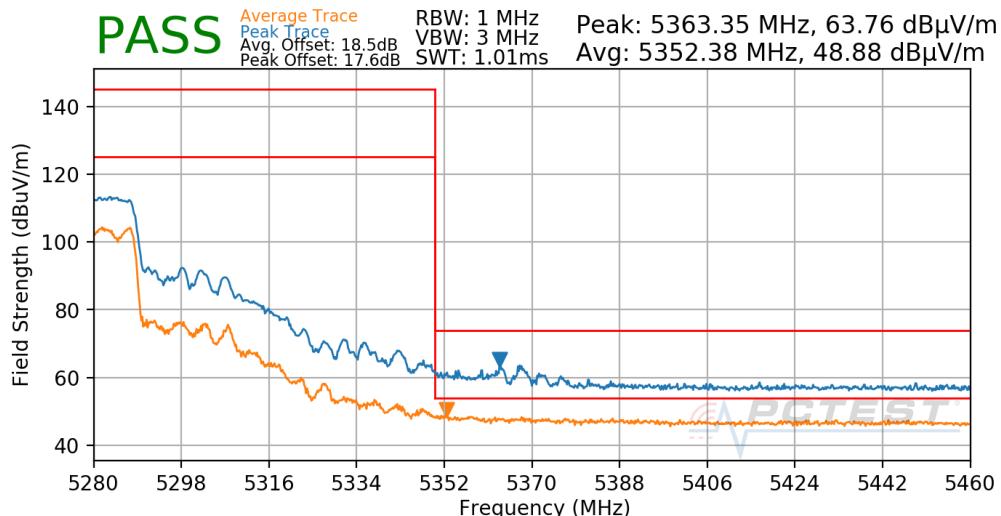
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5230MHz
 Channel: 46



Plot 7-502. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 1)

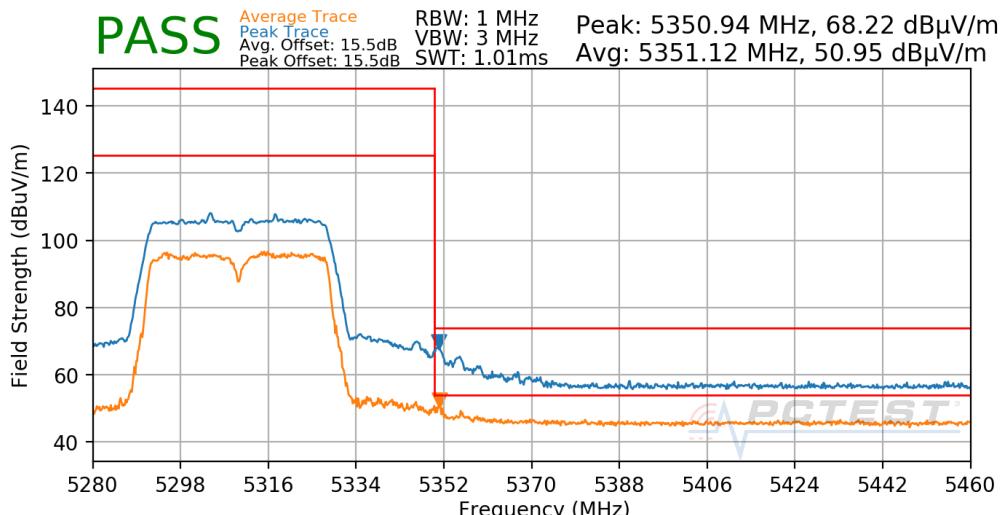
FCC ID: BCGA2072	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 326 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5270MHz
 Channel: 54



Plot 7-503. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2A)

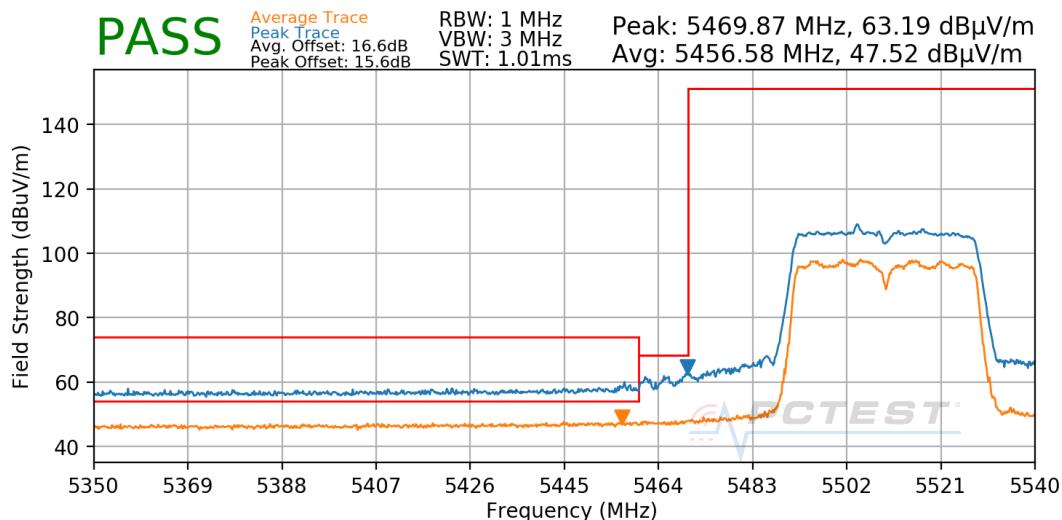
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



Plot 7-504. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2A)

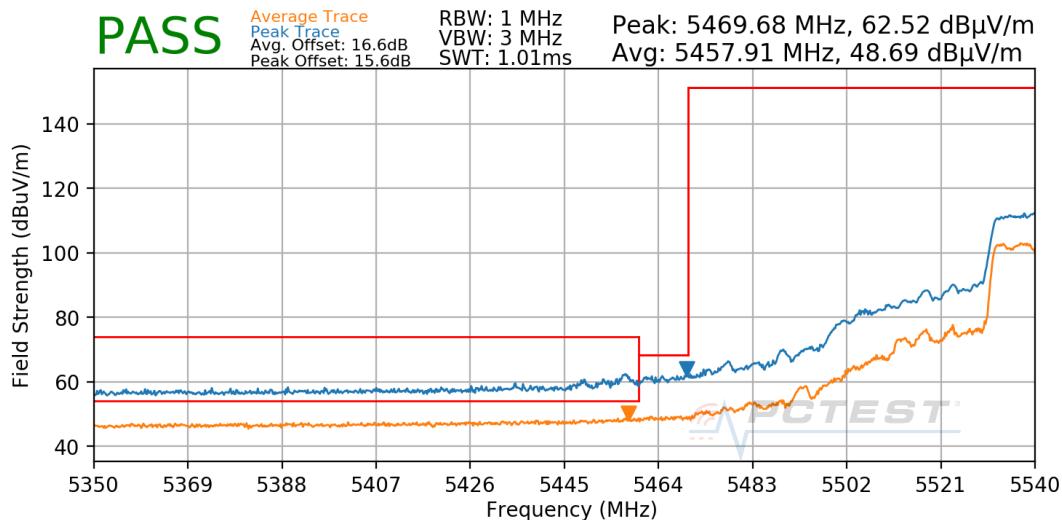
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 327 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



Plot 7-505. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

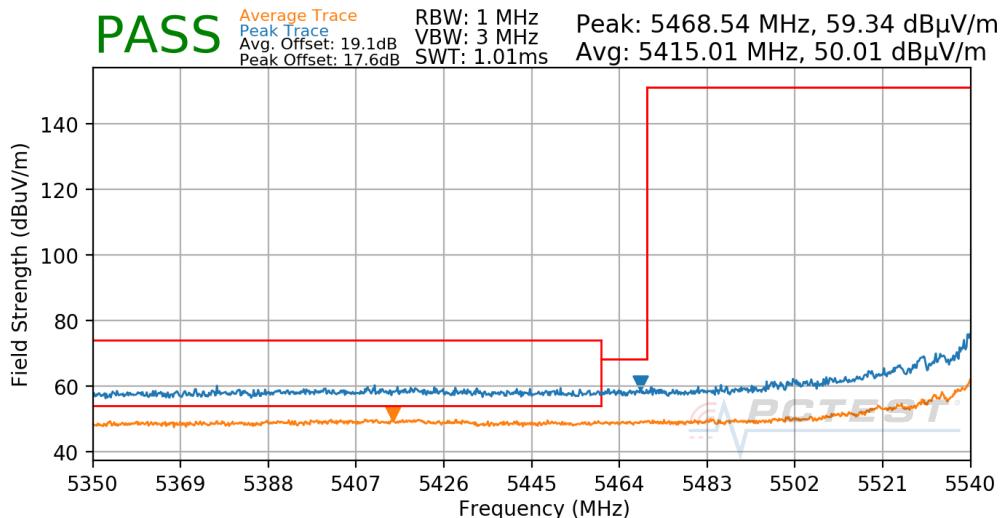
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5550MHz
 Channel: 110



Plot 7-506. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

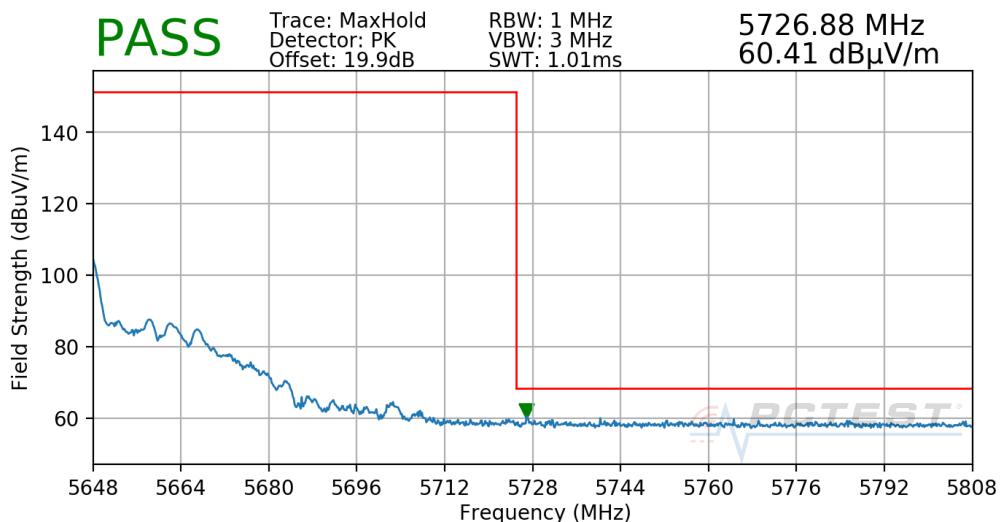
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 328 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5590MHz (FCC only)
 Channel: 118



Plot 7-507. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

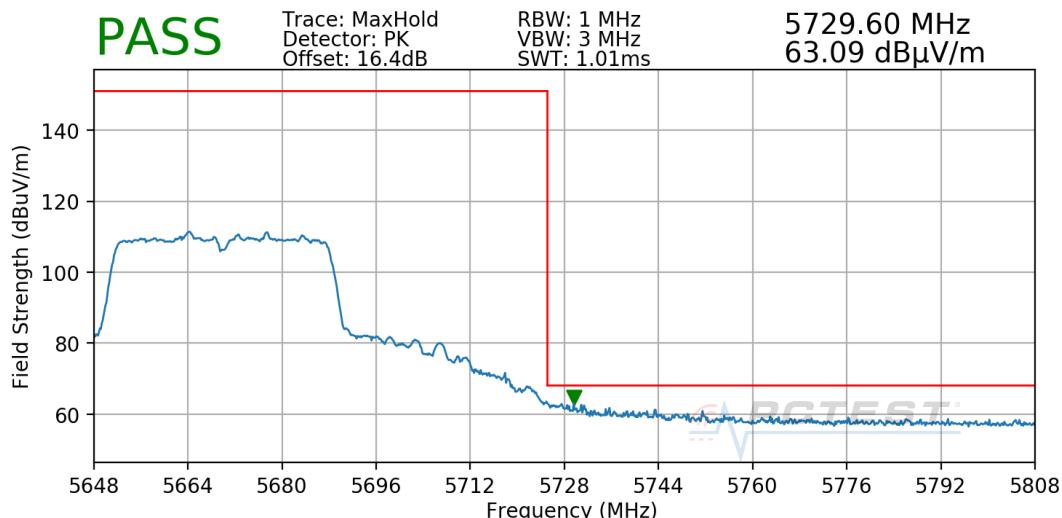
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5630MHz (FCC only)
 Channel: 126



Plot 7-508. Radiated Upper Band Edge Plot CDD Diversity (Peak - UNII Band 2C)

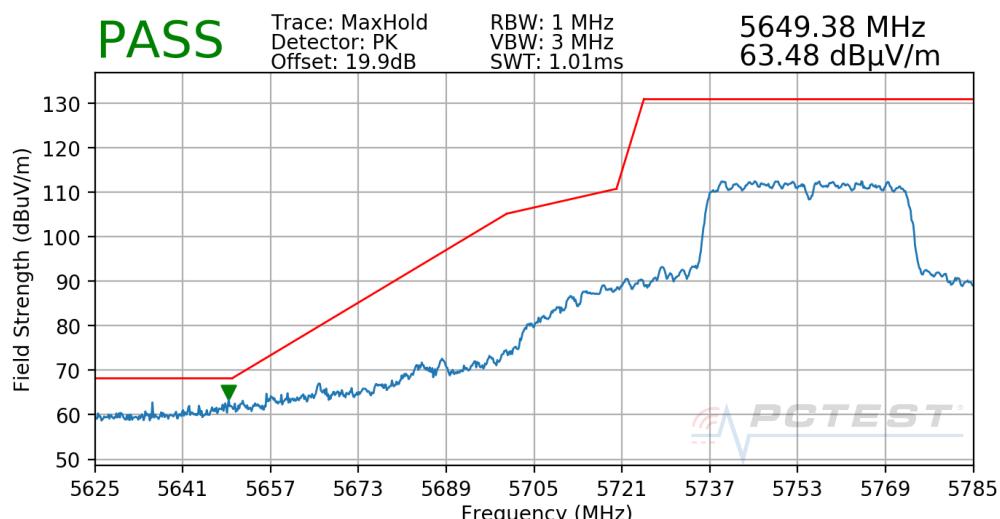
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 329 of 344	

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5670MHz
 Channel: 134



Plot 7-509. Radiated Upper Band Edge Plot CDD Diversity (Peak - UNII Band 2C)

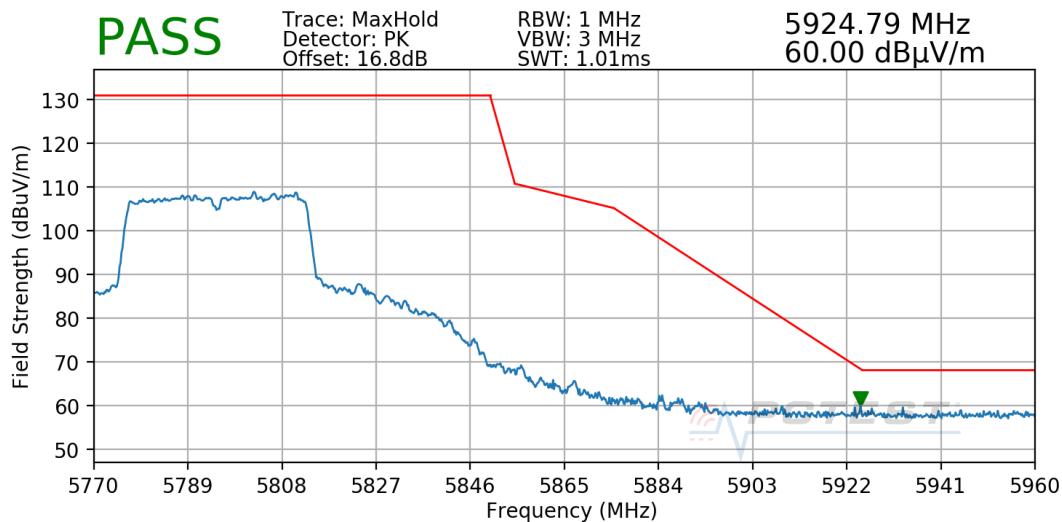
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5755MHz
 Channel: 151



Plot 7-510. Radiated Lower Band Edge Plot CDD Diversity (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device			

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS15
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



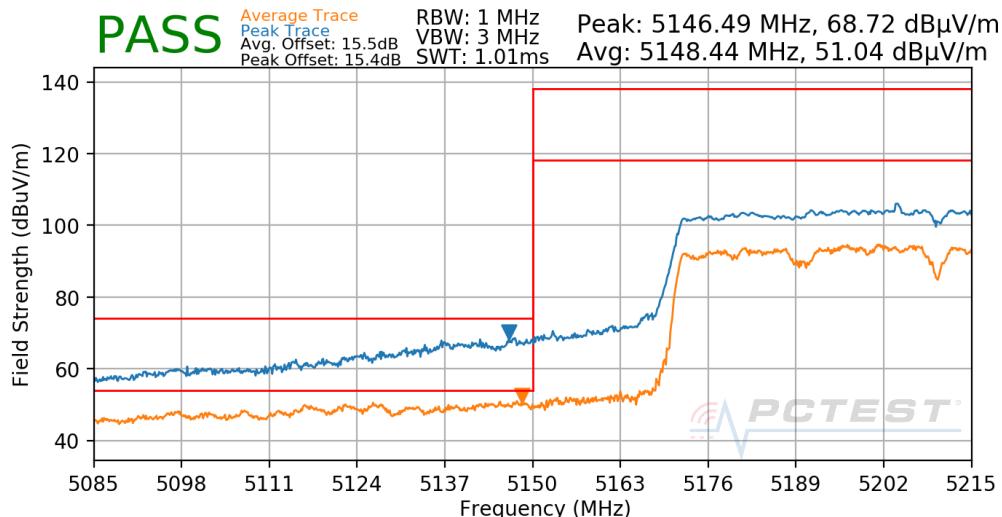
Plot 7-511. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 331 of 344	

7.6.18 CDD Diversity Radiated Band Edge Measurements (80MHz BW)

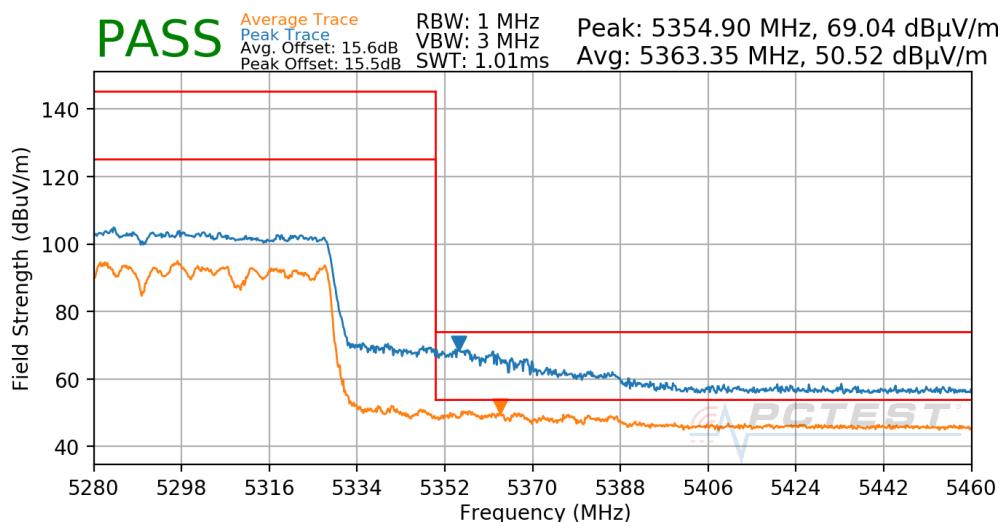
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Plot 7-512. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 1)

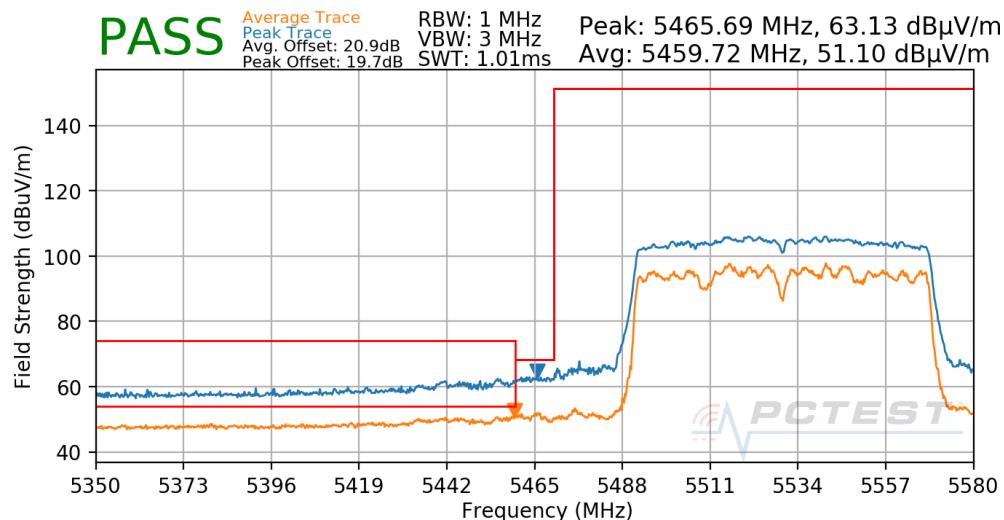
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



Plot 7-513. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2A)

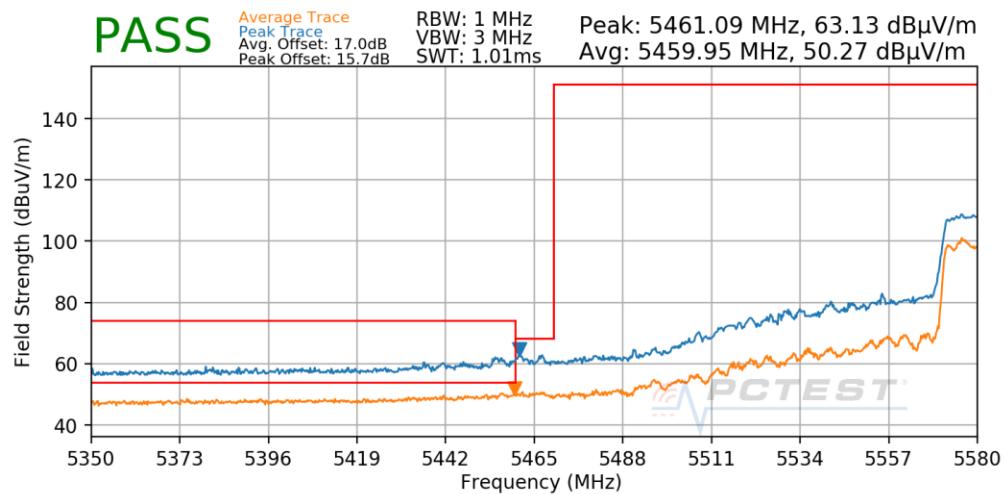
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 332 of 344	

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



Plot 7-514. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

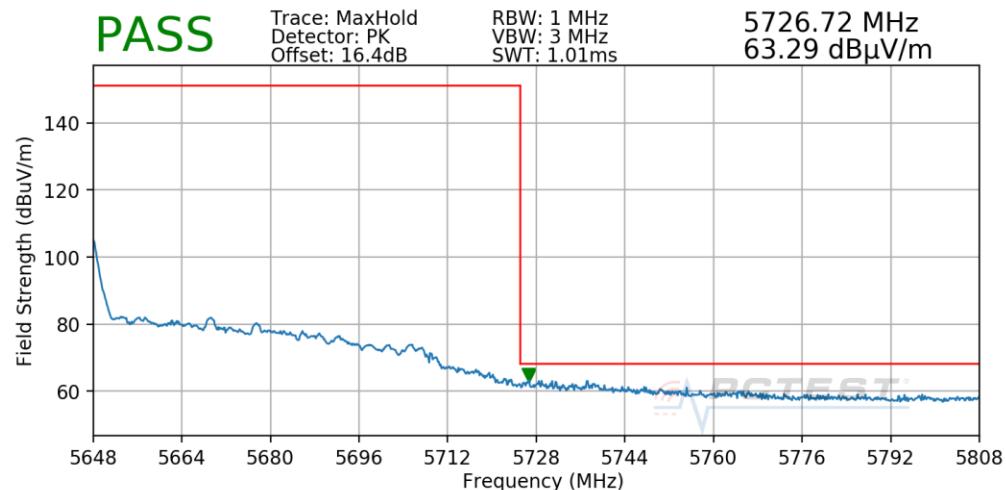
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5610MHz (FCC only)
 Channel: 122



Plot 7-515. Radiated Lower Band Edge Plot CDD Diversity (UNII Band 2C)

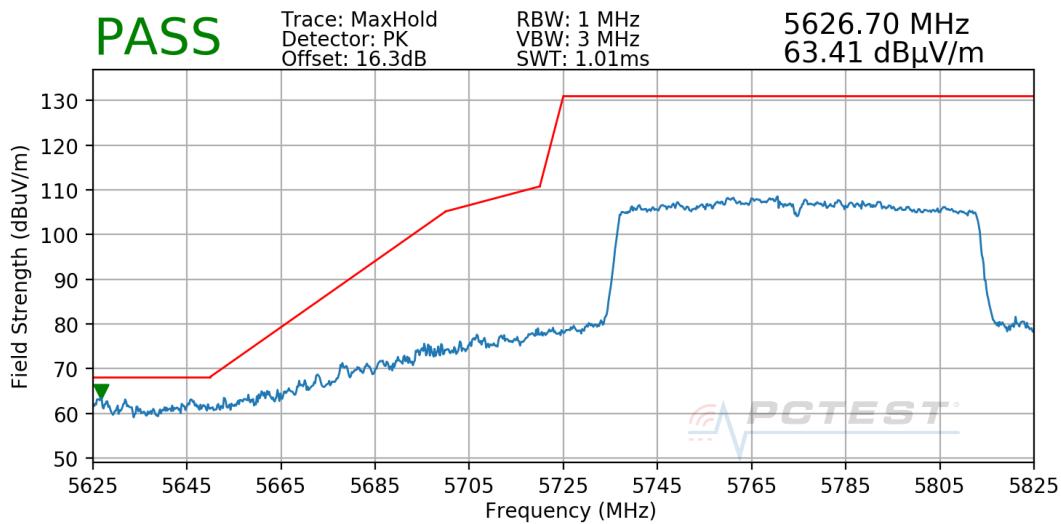
FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5610MHz (FCC only)
 Channel: 122



Plot 7-516. Radiated Upper Band Edge Plot CDD Diversity (UNII Band 2C)

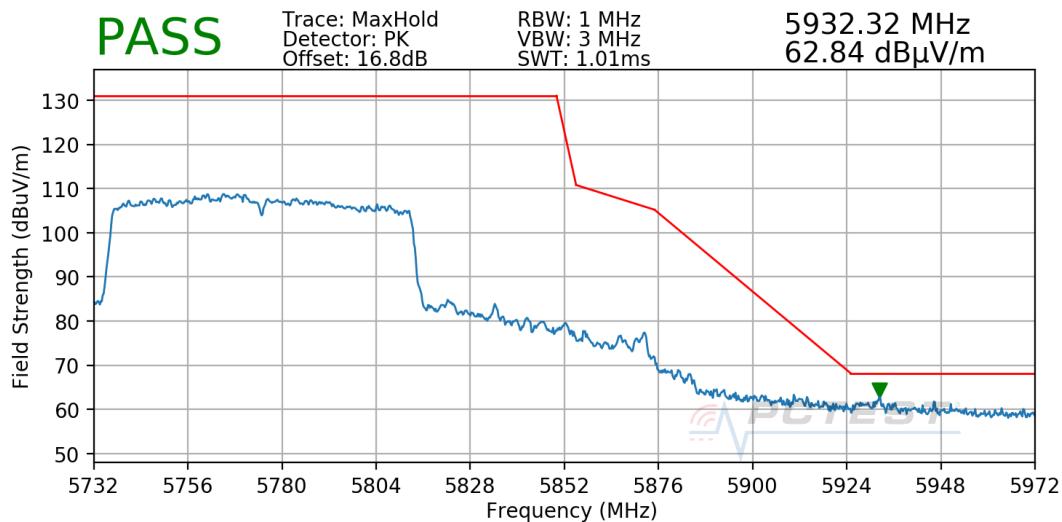
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS9
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-517. Radiated Lower Band Edge Plot CDD Diversity (Peak – UNII Band 3)

FCC ID: BCGA2072	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS9
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



Plot 7-518. Radiated Upper Band Edge Plot CDD Diversity (Peak – UNII Band 3)

FCC ID: BCGA2072	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		

7.7 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-118 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ 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 7-118. 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.

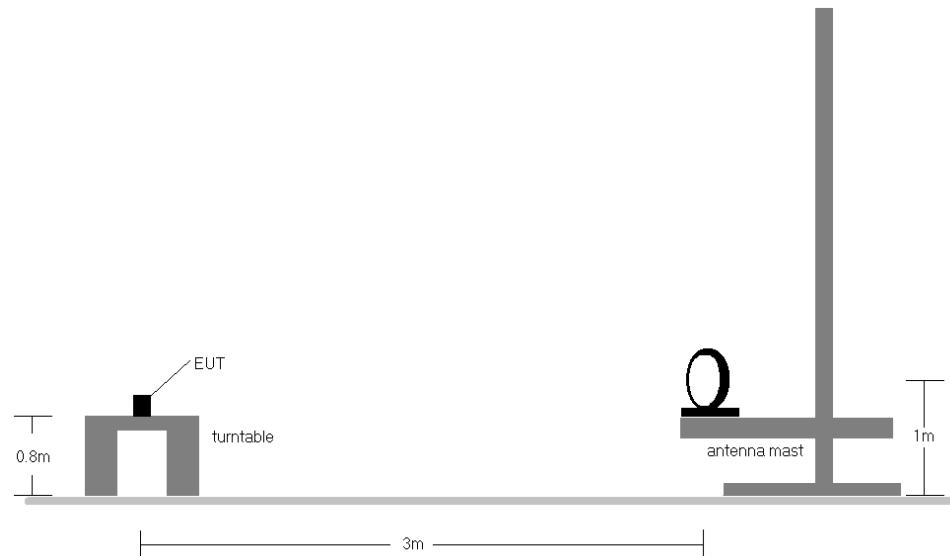


Figure 7-6. Radiated Test Setup < 30MHz

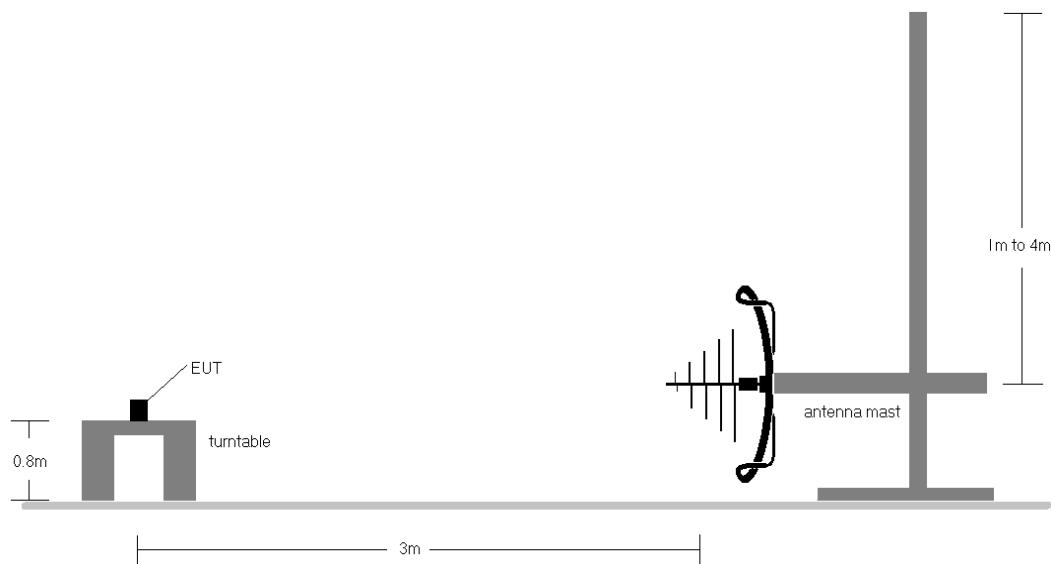


Figure 7-7. Radiated Test Setup < 1GHz

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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 7-118.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. 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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.
13. Spot-check testing of the following data was performed and confirmed to be within guidance per Data Re-use KDB defined by the FCC.

Sample Calculations

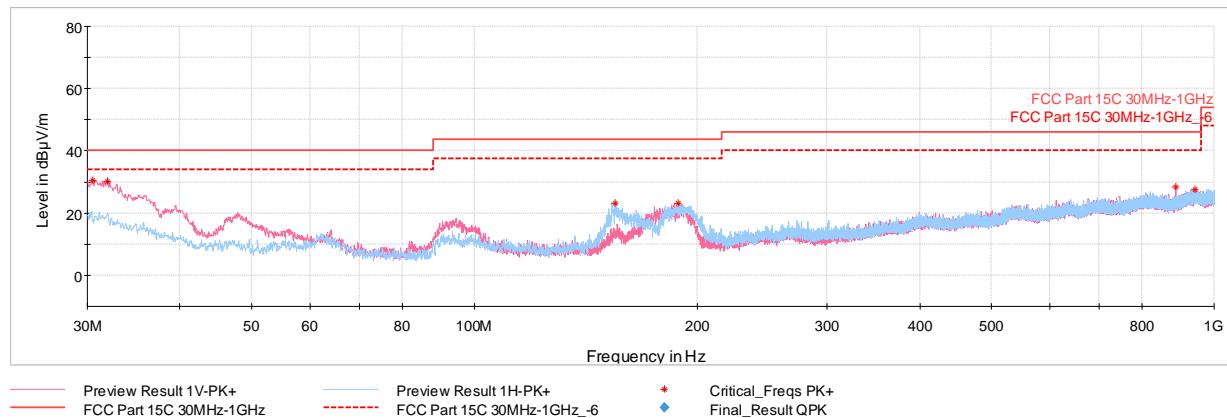
Determining Spurious Emissions Levels

- Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ = Analyzer Level $[\text{dBm}]$ + 107 + AFCL $[\text{dB}/\text{m}]$
- AFCL $[\text{dB}/\text{m}]$ = Antenna Factor $[\text{dB}/\text{m}]$ + Cable Loss $[\text{dB}]$ - Preamp Gain $[\text{dB}]$
- Margin $[\text{dB}]$ = Field Strength Level $[\text{dB}_{\mu\text{V/m}}]$ - Limit $[\text{dB}_{\mu\text{V/m}}]$

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CDD Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-519. Radiated Spurious Emissions below 1GHz CDD Diversity – 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]
30.49	Peak	V	100	18	-64.14	-12.42	30.44	40.00	-9.56
31.89	Peak	V	100	18	-63.60	-13.34	30.06	40.00	-9.94
155.18	Peak	H	100	89	-67.25	-16.72	23.03	43.52	-20.49
188.74	Peak	H	100	98	-66.85	-16.98	23.17	43.52	-20.36
886.51	Peak	V	100	123	-77.54	-1.20	28.26	46.02	-17.76
940.98	Peak	H	100	332	-80.37	1.01	27.64	46.02	-18.38

Table 7-119. Radiated Spurious Emissions below 1GHz CDD Diversity – Ch.36 with AC/DC Adapter

FCC ID: BCGA2072	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.8 AC Line-Conducted Emissions Measurement

§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 AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-120. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

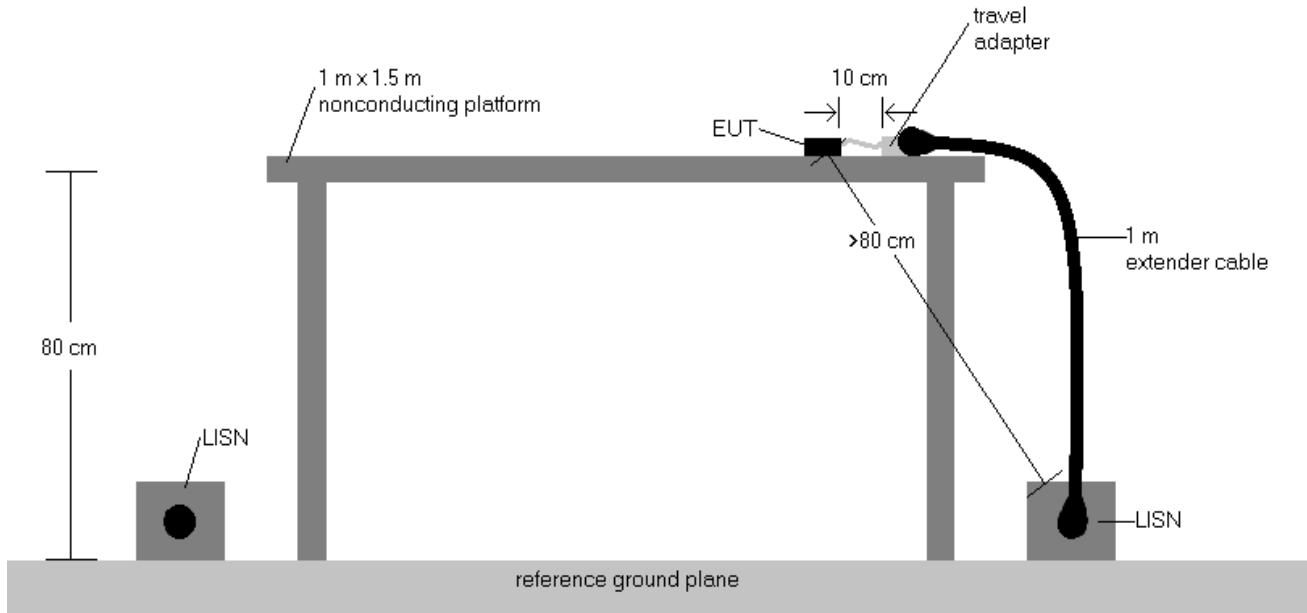
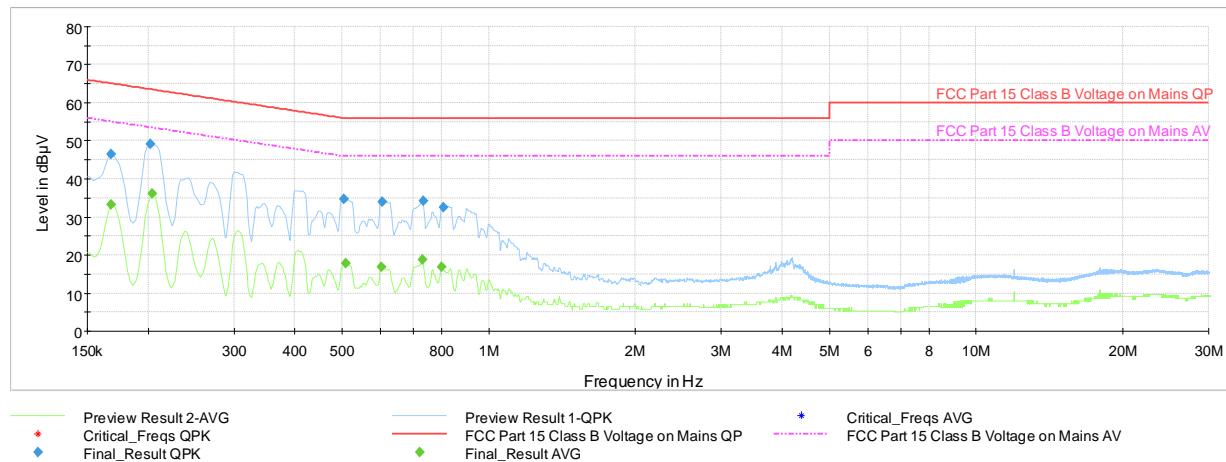


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.
9. The unit was tested with all possible modes and only the highest emission is reported.
10. Following data were re-used from model A2324 per Data Re-use KDB guidance defined by the FCC.

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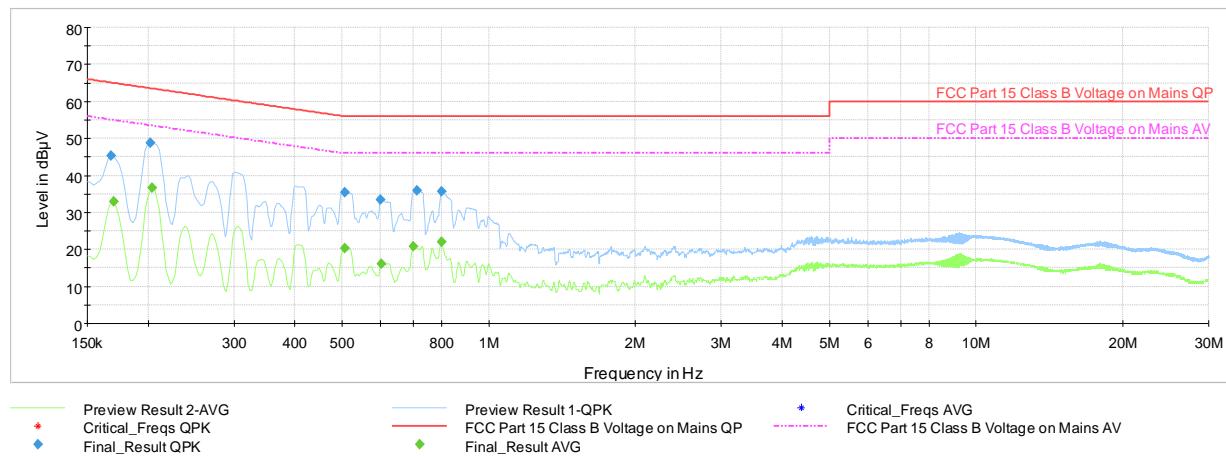


Plot 7-520. AC Line Conducted Plot with – Ch.36 CDD Diversity (L1), with AC/DC adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	46.5	—	65.06	-18.59	L1	GND
0.168	FINAL	—	33.14	55.06	-21.92	L1	GND
0.202	FINAL	49.1	—	63.54	-14.40	L1	GND
0.204	FINAL	—	36.14	53.45	-17.31	L1	GND
0.503	FINAL	34.8	—	56.00	-21.22	L1	GND
0.508	FINAL	—	17.72	46.00	-28.28	L1	GND
0.602	FINAL	—	16.75	46.00	-29.25	L1	GND
0.605	FINAL	34.0	—	56.00	-22.01	L1	GND
0.731	FINAL	—	18.85	46.00	-27.15	L1	GND
0.733	FINAL	34.1	—	56.00	-21.87	L1	GND
0.800	FINAL	—	16.93	46.00	-29.07	L1	GND
0.807	FINAL	32.5	—	56.00	-23.48	L1	GND

Table 7-121. AC Line Conducted Data with – Ch.36 CDD Diversity (L1) with AC/DC adapter

FCC ID: BCGA2072	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-521. AC Line Conducted Plot CDD Diversity – Ch.36 (N), with AC/DC adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	45.2	—	65.06	-19.85	N	GND
0.170	FINAL	—	33.01	54.95	-21.94	N	GND
0.202	FINAL	48.7	—	63.54	-14.82	N	GND
0.204	FINAL	—	36.73	53.45	-16.72	N	GND
0.506	FINAL	35.3	—	56.00	-20.69	N	GND
0.506	FINAL	—	20.32	46.00	-25.68	N	GND
0.600	FINAL	33.5	—	56.00	-22.52	N	GND
0.602	FINAL	—	16.01	46.00	-29.99	N	GND
0.699	FINAL	—	20.87	46.00	-25.13	N	GND
0.713	FINAL	36.0	—	56.00	-19.97	N	GND
0.800	FINAL	35.6	—	56.00	-20.41	N	GND
0.800	FINAL	—	22.12	46.00	-23.88	N	GND

Table 7-122. AC Line Conducted Data CDD Diversity – Ch.36 (N), with AC/DC adapter

FCC ID: BCGA2072	 PCTEST® Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2072** 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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Test Report S/N: 1C2004270030-12.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 344 of 344	