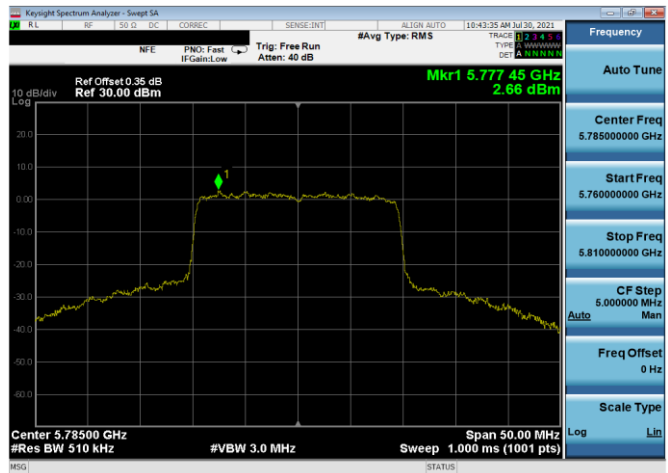
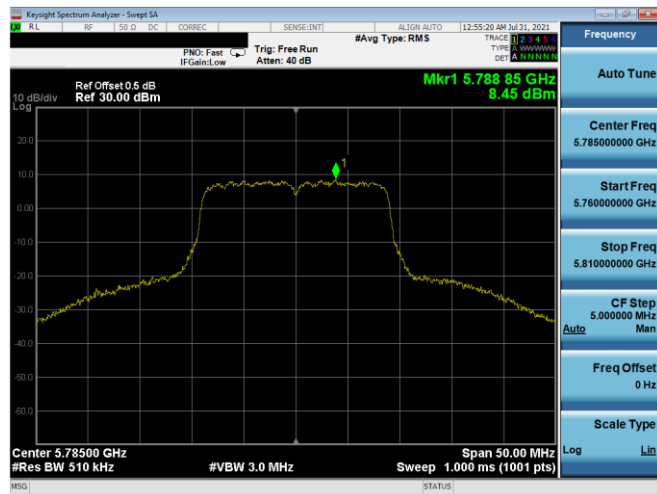


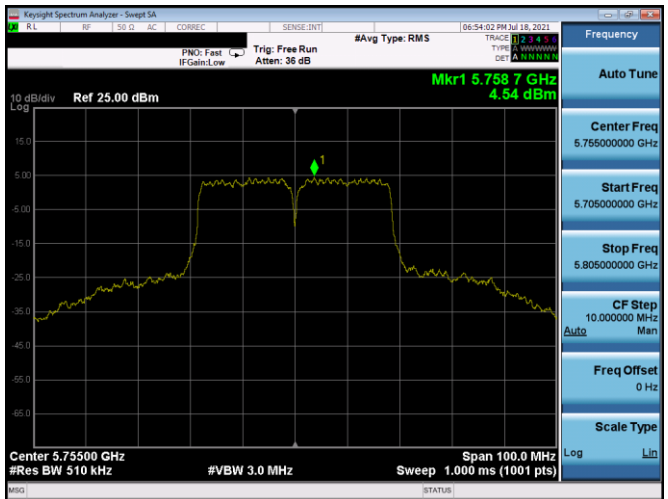
Plot 7-457. PSD CDD Antenna WF5T (20MHz BW 802.11n – Ch. 157, MCS13)



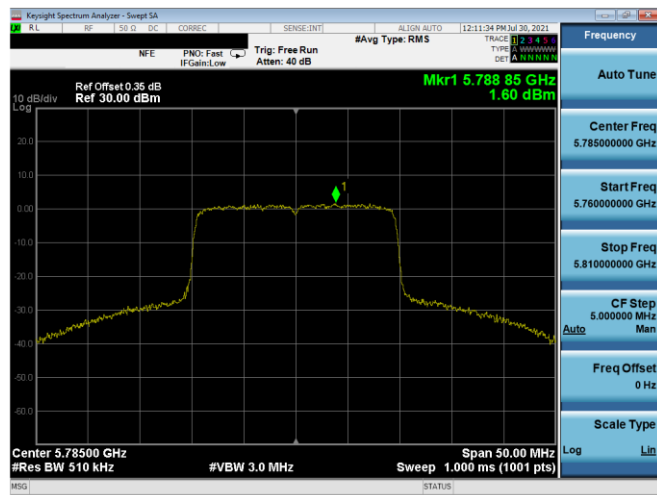
Plot 7-460. PSD CDD Antenna WF2 (20MHz BW 802.11ax(SU) – Ch. 157, MCS5)



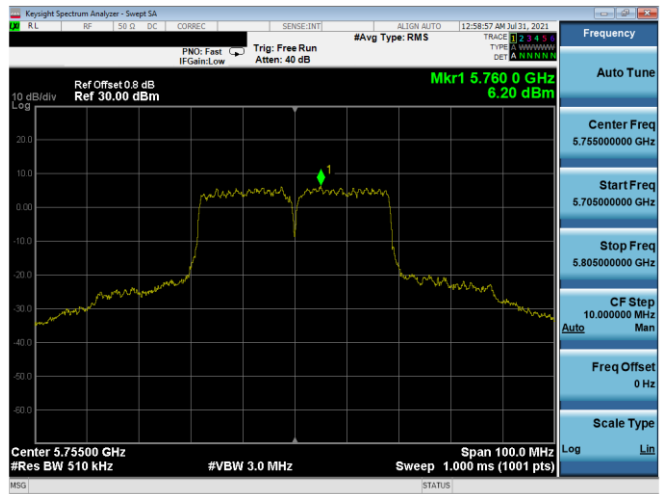
Plot 7-458. PSD CDD Antenna WF2 (20MHz BW 802.11n – Ch. 157, MCS13)



Plot 7-461. PSD CDD Antenna WF5T (40MHz BW 802.11n – Ch. 151, MCS13)

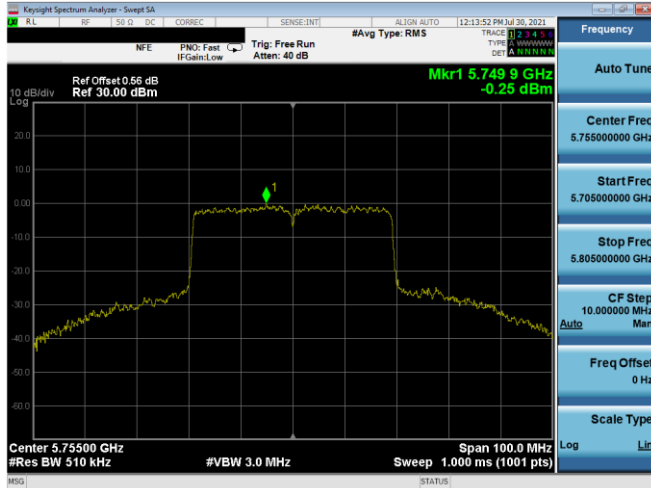


Plot 7-459. PSD CDD Antenna WF5T (20MHz BW 802.11ax(SU) – Ch. 157, MCS5)

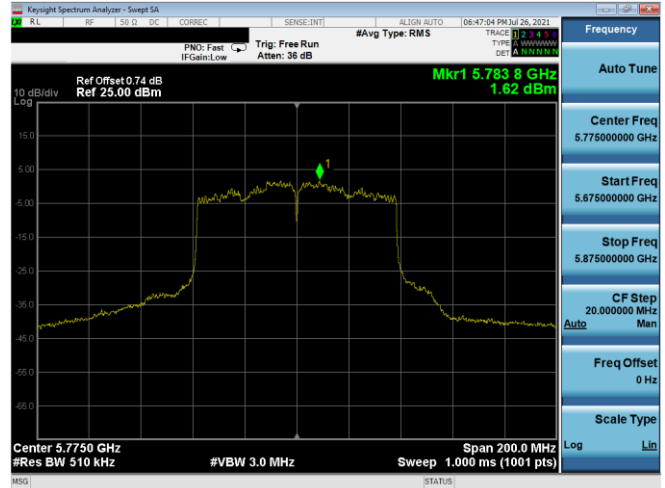


Plot 7-462. PSD CDD Antenna WF2 (40MHz BW 802.11n – Ch. 151, MCS13)

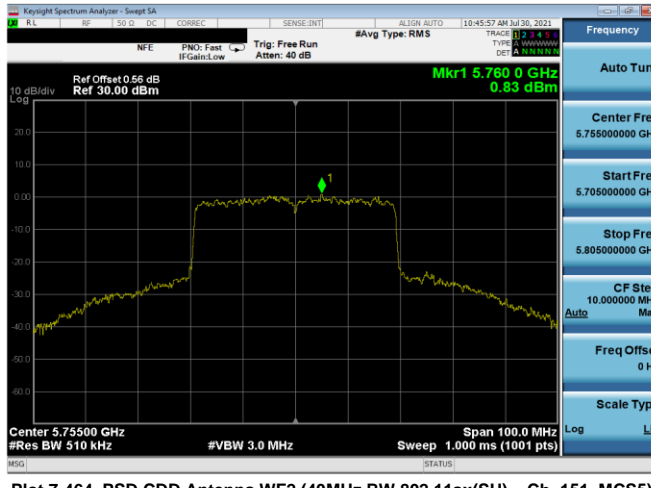
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 153 of 351



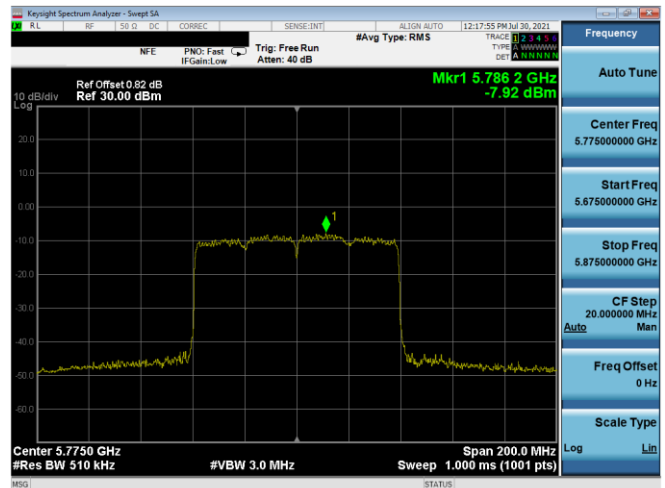
Plot 7-463. PSD CDD Antenna WF5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS5)



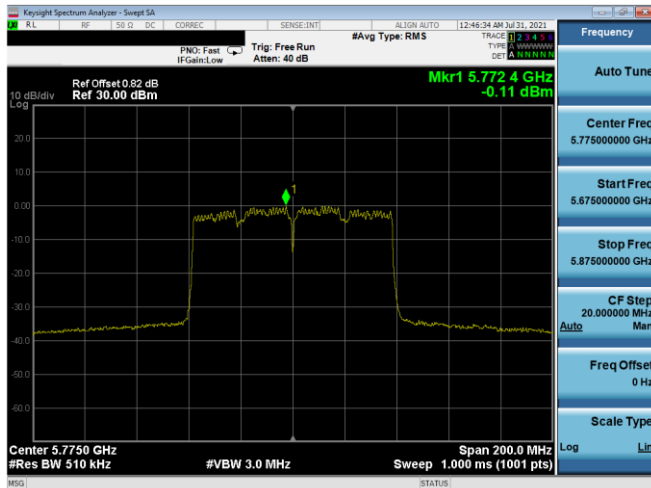
Plot 7-466. PSD CDD Antenna WF2 (80MHz BW 802.11ac – Ch. 155, MCS5)



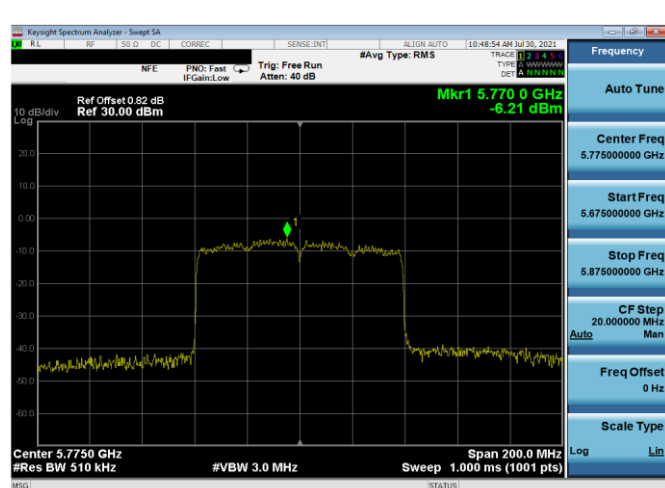
Plot 7-464. PSD CDD Antenna WF2 (40MHz BW 802.11ax(SU) – Ch. 151, MCS5)



Plot 7-467. PSD CDD Antenna WF5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS5)



Plot 7-465. PSD CDD Antenna WF5T (80MHz BW 802.11ac – Ch. 155, MCS5)



Plot 7-468. PSD CDD Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 155, MCS5)

FCC ID: BCGA2567 IC: 579C-A2567		<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-07.BCG	<b>Test Dates:</b> 6/2/2021 - 8/7/2021	<b>EUT Type:</b> Tablet Device	Page 154 of 351

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	39/43.3 (MCS10)	1.91	2.09	5.01	3.02	8.03	10.0	-1.97
	5200	40	n (20MHz)	SDM	39/43.3 (MCS10)	2.45	2.38	5.42	3.02	8.44	10.0	-1.56
	5240	48	n (20MHz)	SDM	39/43.3 (MCS10)	2.29	2.48	5.40	3.02	8.42	10.0	-1.58
	5180	36	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	1.36	1.64	4.51	3.02	7.53	10.0	-2.47
	5200	40	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	2.08	2.02	5.06	3.02	8.08	10.0	-1.92
	5240	48	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	2.09	1.83	4.97	3.02	7.99	10.0	-2.01
	5190	38	n (40MHz)	SDM	81/90 (MCS10)	-0.50	0.18	2.86	3.02	5.88	10.0	-4.12
	5230	46	n (40MHz)	SDM	81/90 (MCS10)	1.94	1.88	4.92	3.02	7.94	10.0	-2.06
	5190	38	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	-0.54	-0.43	2.53	3.02	5.55	10.0	-4.45
	5230	46	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	0.80	0.30	3.57	3.02	6.59	10.0	-3.41
	5210	42	ac (80MHz)	CDD	175.5/195 (MCS2)	-2.15	-1.43	1.24	6.02	7.25	10.0	-2.75
	5210	42	ax (SU) (80MHz)	CDD	204/216.2 (MCS2)	-5.06	-4.79	-1.91	6.02	4.11	10.0	-5.89

**Table 7-116. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Low Data Rate)**

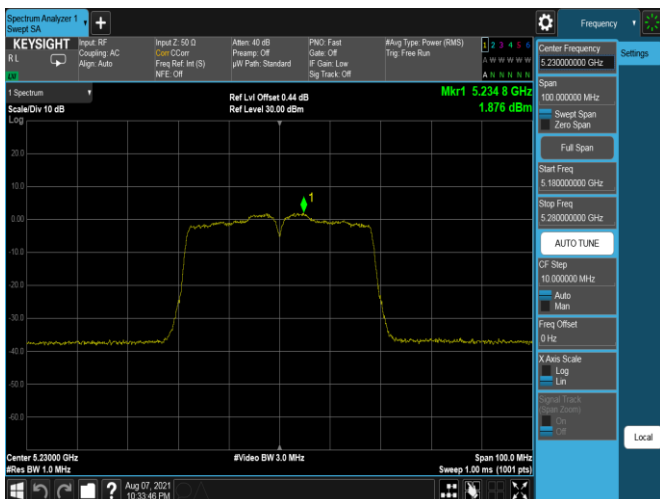
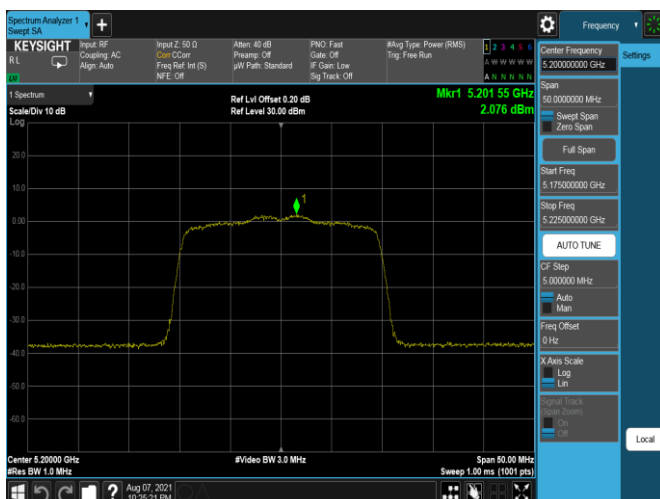
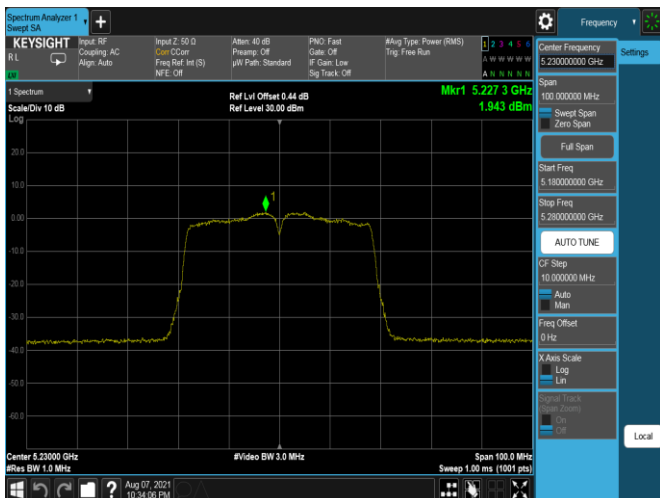
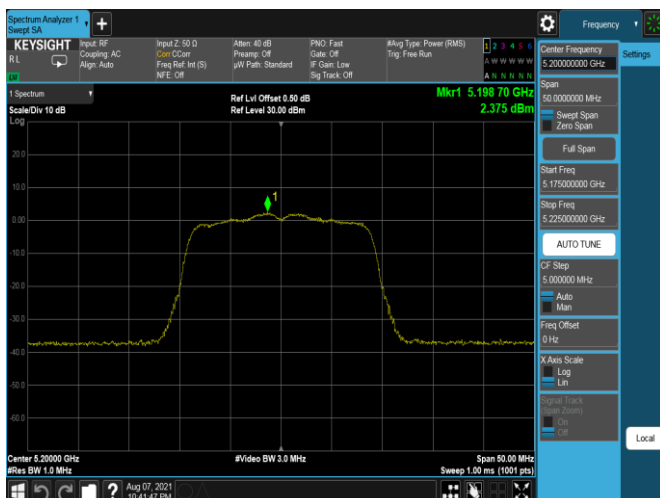
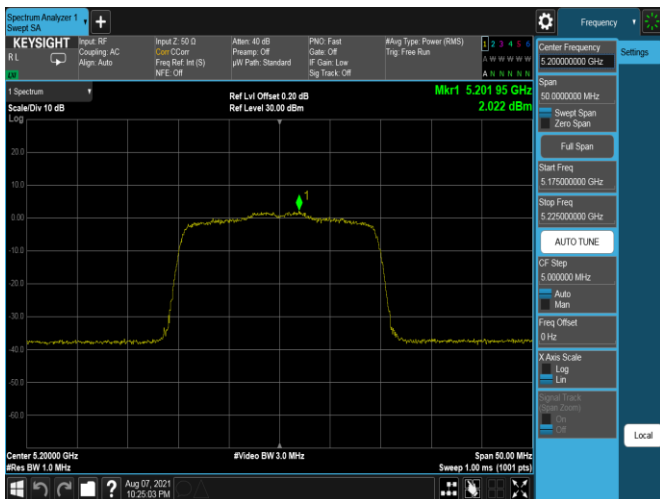
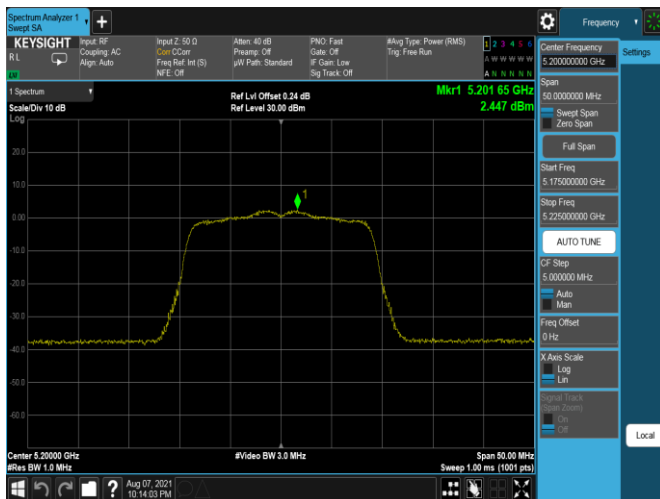
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	52/57.8 (MCS11)	2.38	2.26	5.33	3.02	8.34	10.0	-1.66
	5200	40	n (20MHz)	SDM	52/57.8 (MCS11)	2.32	2.44	5.39	3.02	8.41	10.0	-1.59
	5240	48	n (20MHz)	SDM	52/57.8 (MCS11)	2.60	2.56	5.59	3.02	8.61	10.0	-1.39
	5180	36	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	1.92	1.93	4.94	3.02	7.96	10.0	-2.04
	5200	40	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	1.92	1.92	4.93	3.02	7.95	10.0	-2.05
	5240	48	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	1.75	1.74	4.75	3.02	7.77	10.0	-2.23
	5190	38	n (40MHz)	SDM	108/120 (MCS11)	1.55	3.08	5.39	3.02	8.41	10.0	-1.59
	5230	46	n (40MHz)	SDM	108/120 (MCS11)	1.80	1.68	4.75	3.02	7.77	10.0	-2.23
	5190	38	ax (SU) (40MHz)	SDM	130/137.6 (MCS3)	-0.79	0.33	2.81	3.02	5.83	10.0	-4.17
	5230	46	ax (SU) (40MHz)	SDM	130/137.6 (MCS3)	0.05	0.56	3.32	3.02	6.34	10.0	-3.66
	5210	42	ac (80MHz)	CDD	234/260 (MCS3)	-2.56	-2.85	0.31	6.02	6.33	10.0	-3.67
	5210	42	ax (SU) (80MHz)	CDD	272/288.2 (MCS3)	-4.21	-4.22	-1.20	6.02	4.82	10.0	-5.18

**Table 7-117. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Mid Data Rate)**

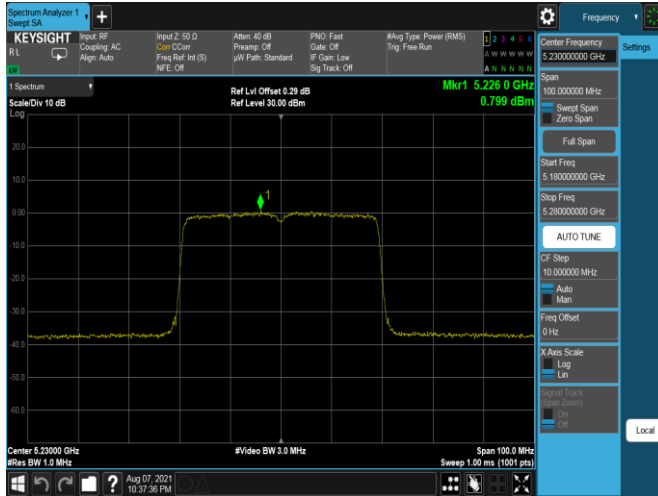
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	104/115.6 (MCS13)	1.19	1.16	4.19	3.02	7.21	10.0	-2.79
	5200	40	n (20MHz)	SDM	104/115.6 (MCS13)	1.32	1.28	4.31	3.02	7.33	10.0	-2.67
	5240	48	n (20MHz)	SDM	104/115.6 (MCS13)	1.30	1.48	4.40	3.02	7.42	10.0	-2.58
	5180	36	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	0.89	0.88	3.89	3.02	6.91	10.0	-3.09
	5200	40	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	0.87	1.04	3.96	3.02	6.98	10.0	-3.02
	5240	48	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	1.54	1.09	4.33	3.02	7.35	10.0	-2.65
	5190	38	n (40MHz)	SDM	216/240 (MCS13)	-0.32	-0.08	2.81	3.02	5.83	10.0	-4.17
	5230	46	n (40MHz)	SDM	216/240 (MCS13)	0.73	1.23	3.99	3.02	7.01	10.0	-2.99
	5190	38	ax (SU) (40MHz)	SDM	260/275.3 (MCS5)	-0.76	0.03	2.67	3.02	5.68	10.0	-4.32
	5230	46	ax (SU) (40MHz)	SDM	260/275.3 (MCS5)	0.38	0.85	3.63	3.02	6.65	10.0	-3.35
	5210	42	ac (80MHz)	CDD	468/520 (MCS5)	-3.91	-3.96	-0.92	6.02	5.10	10.0	-4.90
	5210	42	ax (SU) (80MHz)	CDD	574/576.5 (MCS5)	-4.21	-4.15	-1.16	6.02	4.85	10.0	-5.15

**Table 7-118. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (High Data Rate)**

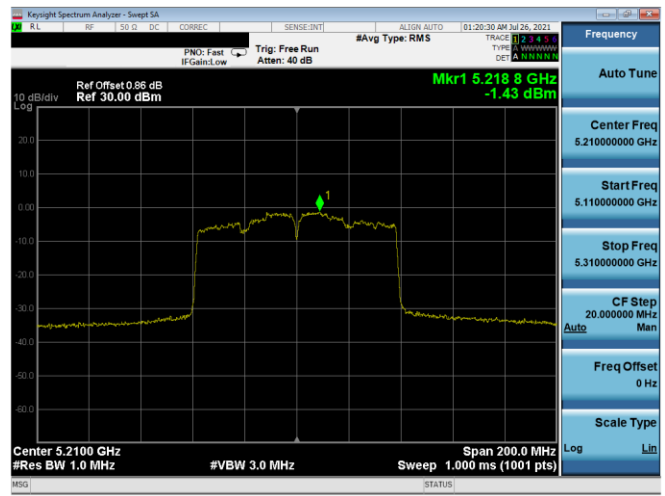
FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 155 of 351



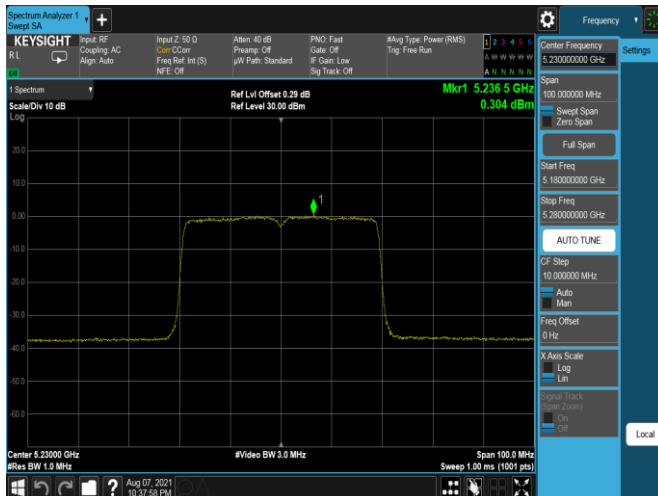
<b>FCC ID:</b> BCGA2567 <b>IC:</b> 579C-A2567		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-07.BCG	<b>Test Dates:</b> 6/2/2021 - 8/7/2021		Page 156 of 351



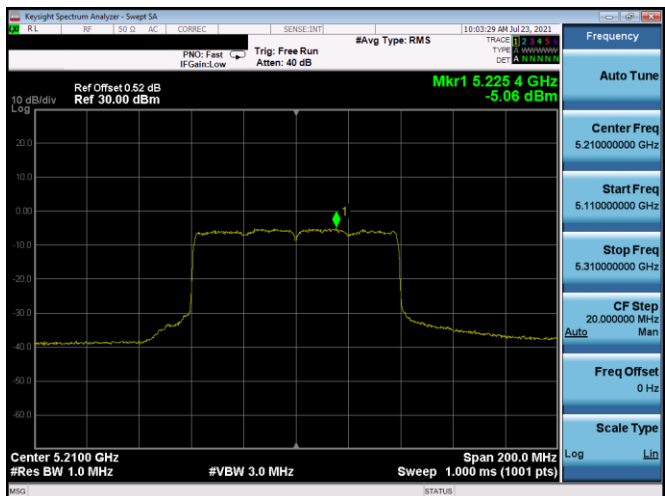
Plot 7-475. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) - Ch.46, MCS2)



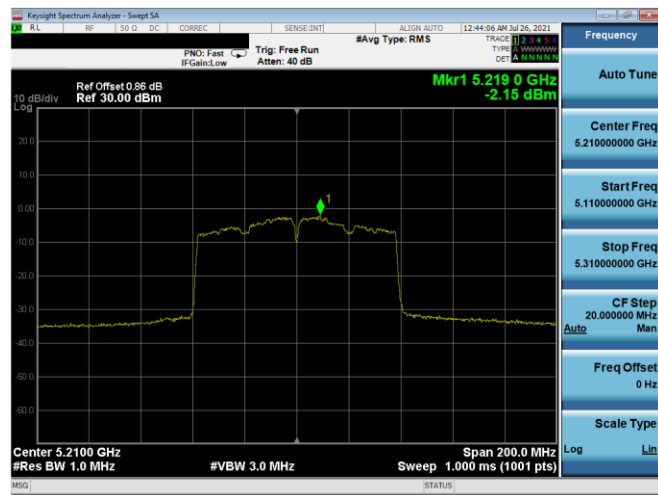
Plot 7-478. ISED PSD CDD Antenna WF2 (80MHz BW 11ac - Ch.42, MCS2)



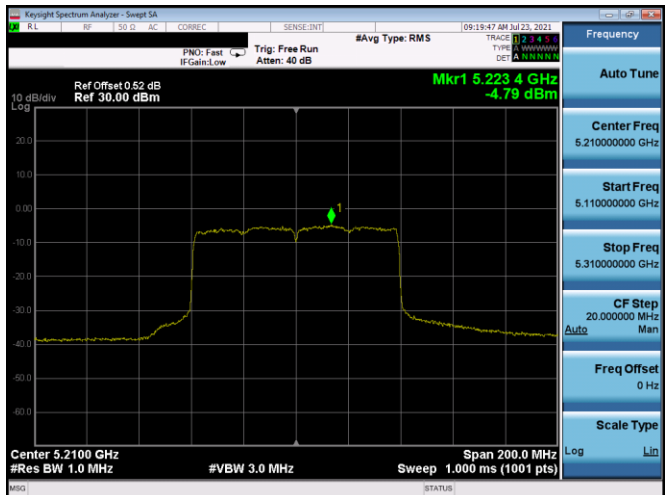
Plot 7-476. ISED SDM PSD Antenna WF2 (40MHz BW 11ax(SU) - Ch.46, MCS2)



Plot 7-479. ISED PSD CDD Antenna WF5T (80MHz BW 11ax (SU) - Ch.42, MCS2)



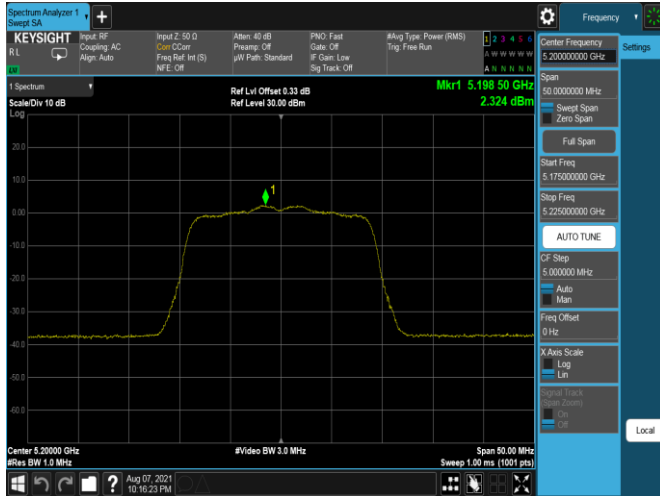
Plot 7-477. ISED PSD CDD Antenna WF5T (80MHz BW 11ac - Ch.42, MCS2)



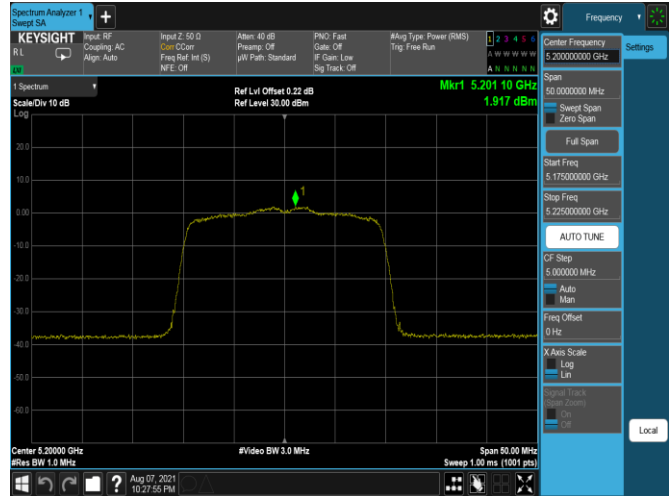
Plot 7-480. ISED PSD CDD Antenna WF2 (80MHz BW 11ax (SU) - Ch.42, MCS2)

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 157 of 351

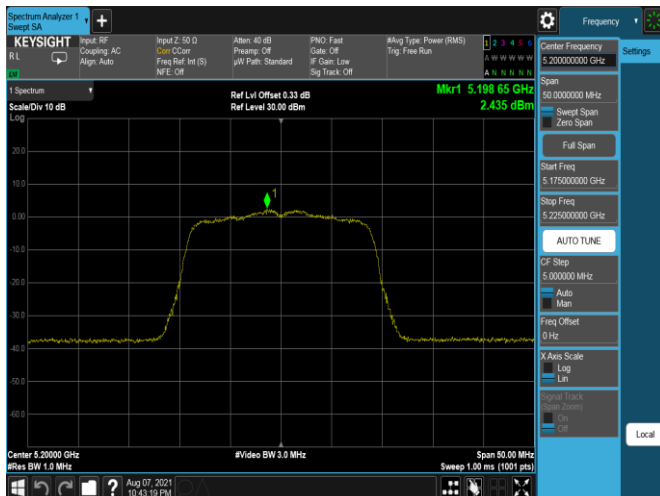




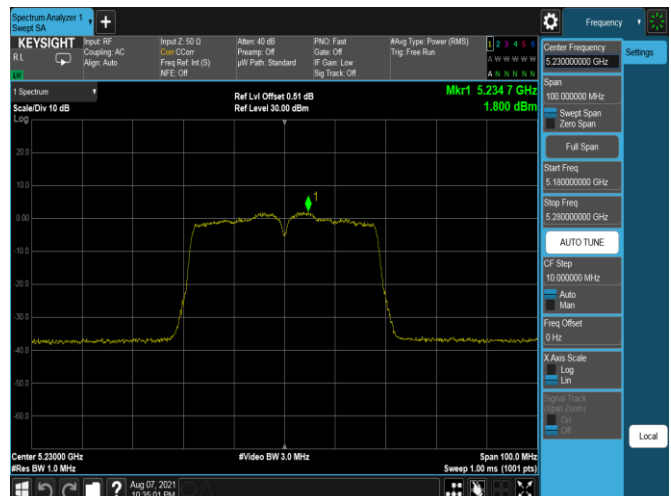
Plot 7-481. ISED PSD SDM Antenna WF5T (20MHz BW 11n – Ch.40, MCS11)



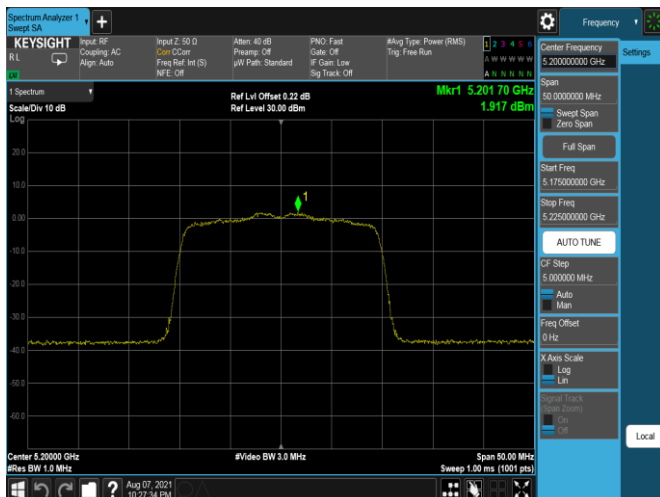
Plot 7-484. ISED PSD SDM Antenna WF2 (20MHz BW 11ax(SU) – Ch.40, MCS3)



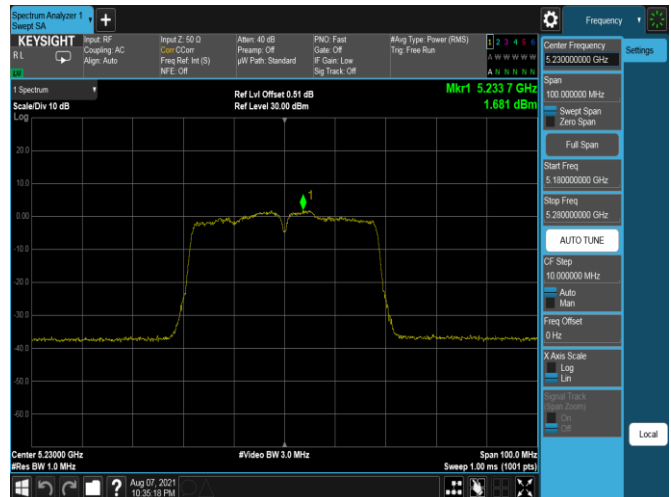
Plot 7-482. ISED PSD SDM Antenna WF2 (20MHz BW 11n – Ch.40, MCS11)



Plot 7-485. ISED PSD SDM Antenna WF5T (40MHz BW 11n – Ch.46, MCS11)

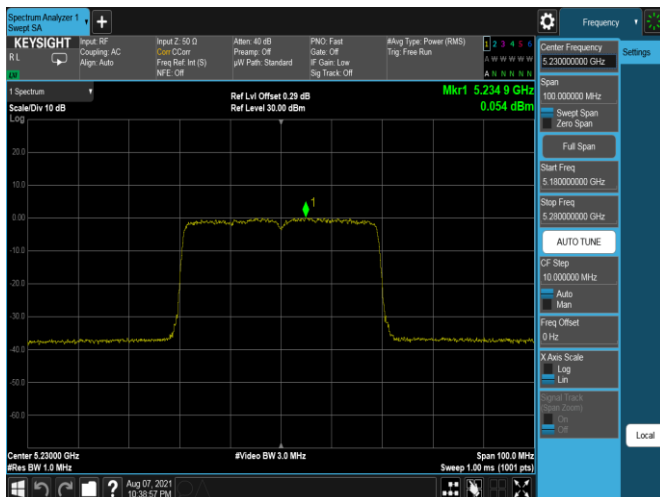


Plot 7-483. ISED PSD SDM Antenna WF5T (20MHz BW 11ax(SU) – Ch.40, MCS3)

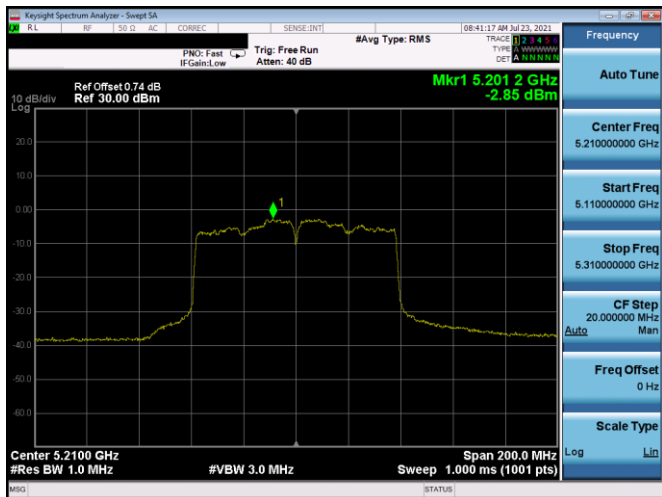


Plot 7-486. ISED PSD SDM Antenna WF2 (40MHz BW 11n – Ch.46, MCS11)

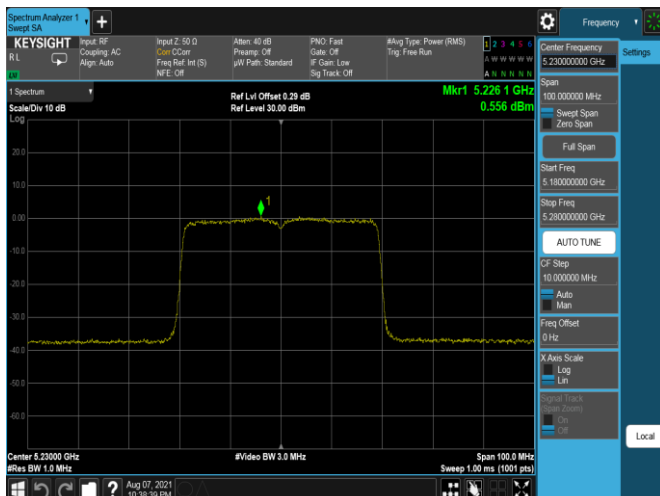
<b>FCC ID:</b> BCGA2567 <b>IC:</b> 579C-A2567		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-07.BCG	<b>Test Dates:</b> 6/2/2021 - 8/7/2021		Page 158 of 351



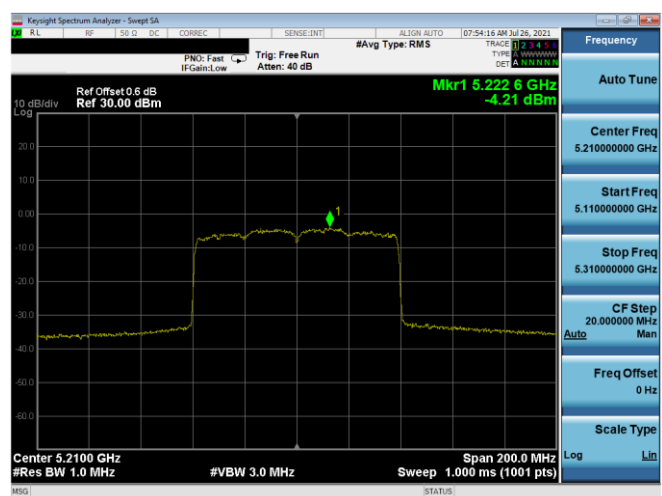
Plot 7-487. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) – Ch.46, MCS3)



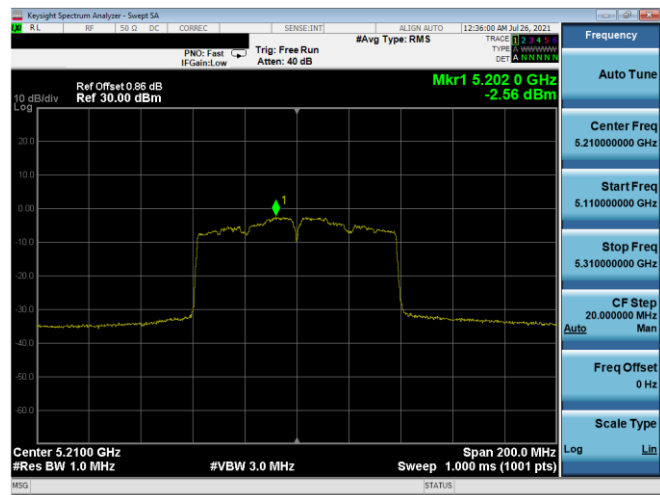
Plot 7-490. ISED PSD Antenna WF2 (80MHz BW 11ac – Ch.42, MCS3)



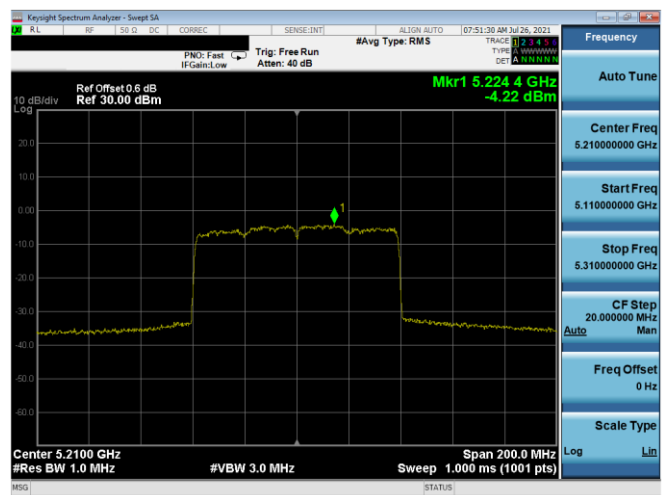
Plot 7-488. ISED PSD SDM Antenna WF2 (40MHz BW 11ax(SU) – Ch.46, MCS3)



Plot 7-491. ISED PSD CDD Antenna WF5T (80MHz BW 11ax (SU) – Ch.42, MCS3)

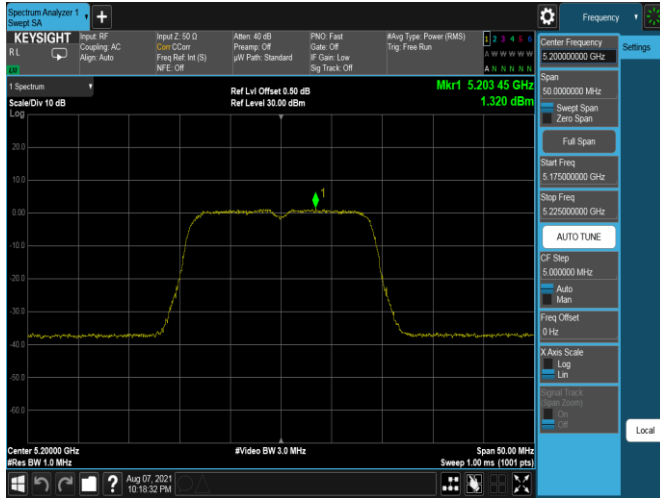


Plot 7-489. ISED PSD CDD Antenna WF5T (80MHz BW 11ac – Ch.42, MCS3)

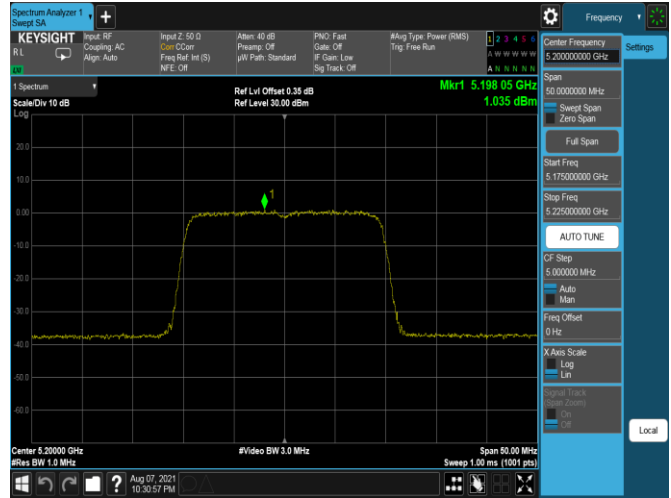


Plot 7-492. ISED PSD CDD Antenna WF2 (80MHz BW 11ax (SU) – Ch.42, MCS3)

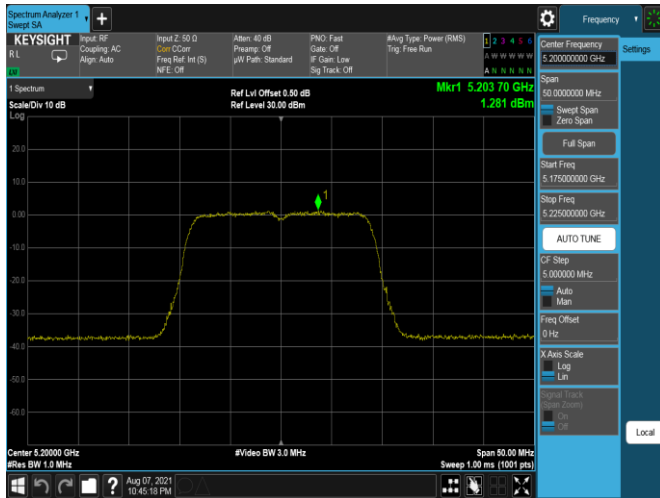
FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 159 of 351



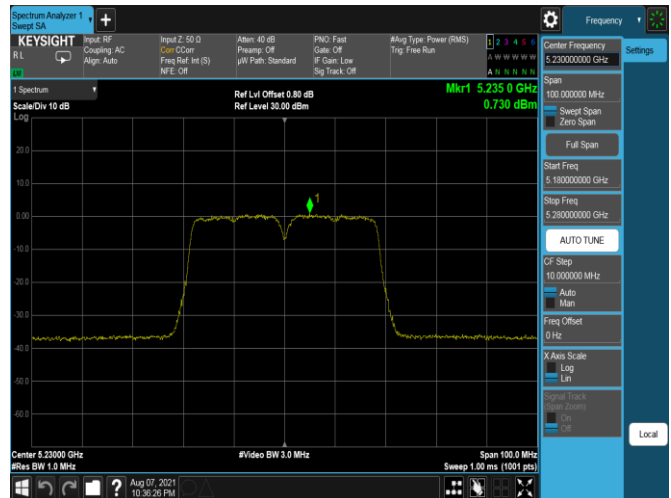
Plot 7-493. ISED PSD SDM Antenna WF5T (20MHz BW 11n – Ch.40, MCS13)



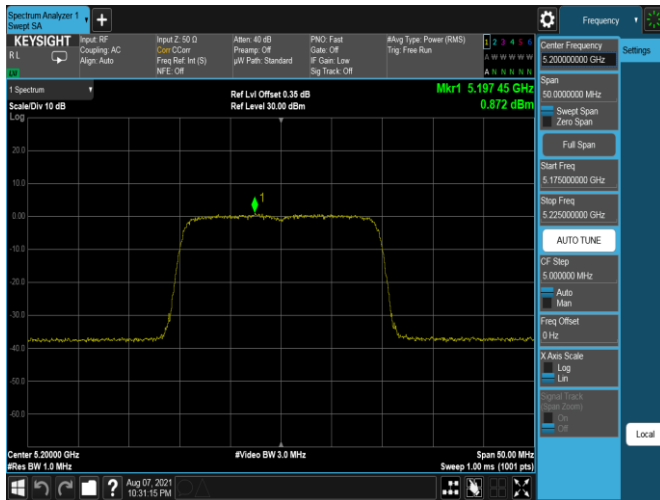
Plot 7-496. ISED PSD SDM Antenna WF2 (20MHz BW 11ax(SU) – Ch.40, MCS11)



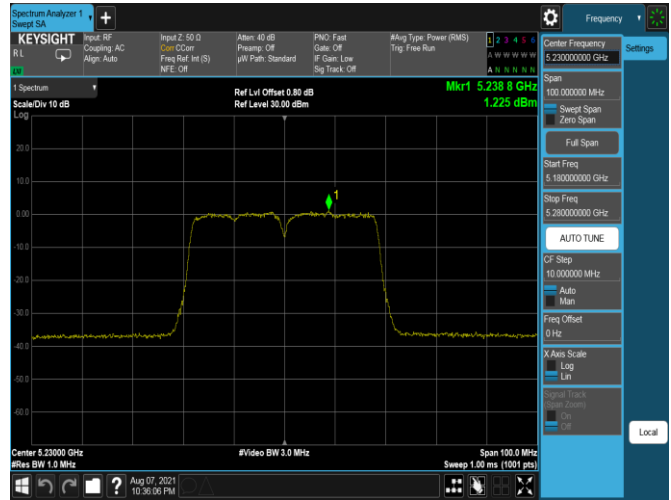
Plot 7-494. ISED PSD SDM Antenna WF2 (20MHz BW 11n – Ch.40, MCS13)



Plot 7-497. ISED PSD SDM Antenna WF5T (40MHz BW 11n – Ch.46, MCS13)



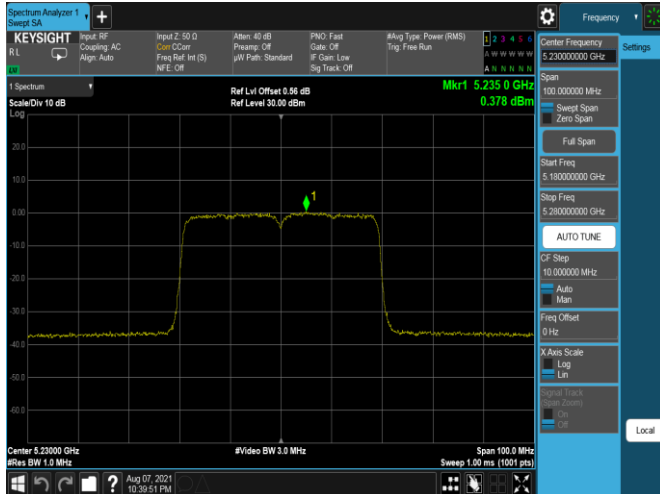
Plot 7-495. ISED PSD SDM Antenna WF5T (20MHz BW 11ax(SU) – Ch.40, MCS11)



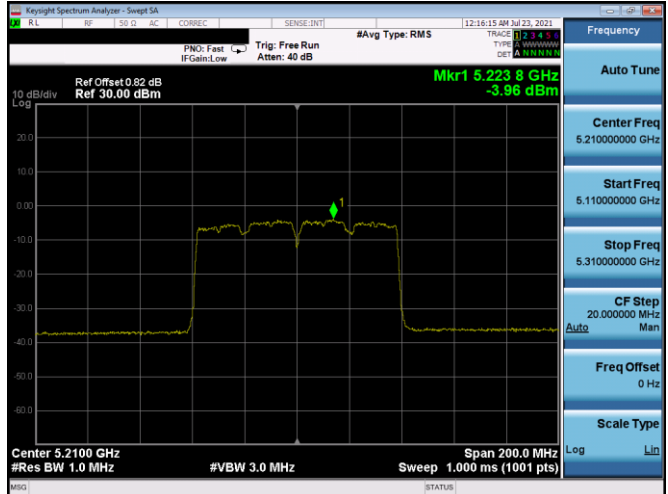
Plot 7-498. ISED PSD SDM Antenna WF2 (40MHz BW 11n – Ch.46, MCS13)

<b>FCC ID:</b> BCGA2567 <b>IC:</b> 579C-A2567		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1C2106080048-07.BCG	<b>Test Dates:</b> 6/2/2021 - 8/7/2021		Page 160 of 351

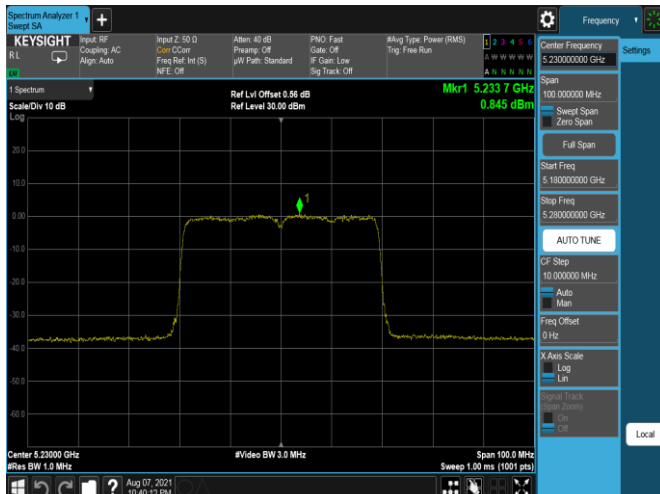




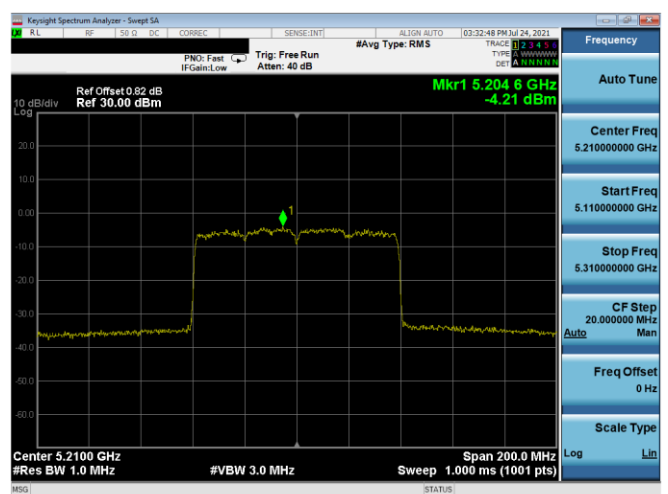
Plot 7-499. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) - Ch.46, MCS11)



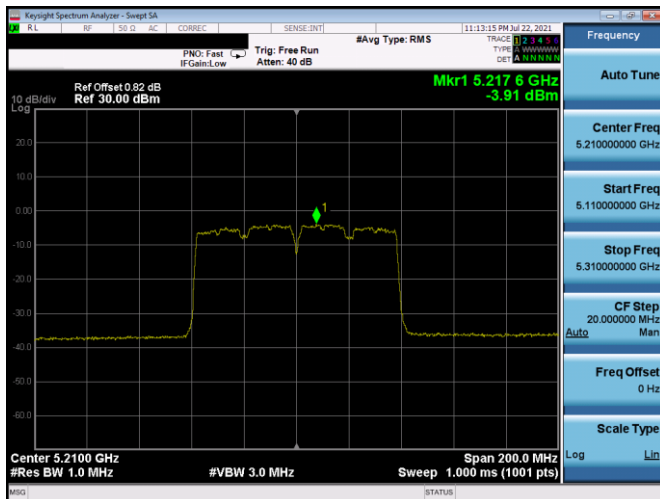
Plot 7-502. ISED PSD CDD Antenna WF2 (80MHz BW 11ac - Ch.42, MCS5)



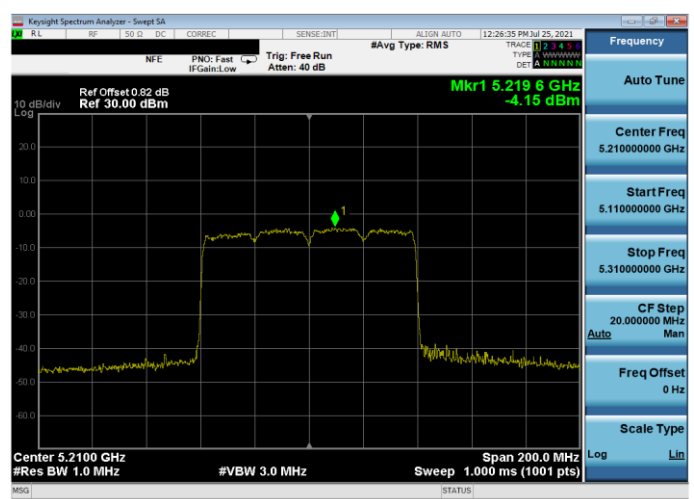
Plot 7-500. ISED PSD SDM Antenna WF2 (40MHz BW 11ax(SU) - Ch.46, MCS11)



Plot 7-503. ISED PSD CDD Antenna WF5T (80MHz BW 11ax(SU) - Ch.42, MCS11)



Plot 7-501. ISED PSD CDD Antenna WF5T (80MHz BW 11ac - Ch.42, MCS5)



Plot 7-504. ISED PSD CDD Antenna WF5T (80MHz BW 11ax(SU) - Ch.42, MCS11)

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#### Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF5T and Antenna WF2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

#### Sample Directional Gain Calculation:

For correlated signals, assuming the antenna gain is 4.7 dBi for Antenna WF5T and 0.6 dBi for Antenna WF2.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/20} + 10^{0.6/20} / 2] \text{ dBi} \\ &= 5.90 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 4.7 dBi for Antenna WF5T and 0.6 dBi for Antenna WF2.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/10} + 10^{0.6/10} / 2] \text{ dBi} \\ &= 3.12 \text{ dBi}\end{aligned}$$

#### Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 3.84 dBm for Antenna WF2 and 4.11 dBm for Antenna WF2.

$$\text{Antenna WF5T} + \text{Antenna WF2} = \text{CDD/SDM}$$

$$(3.84 \text{ dBm} + 4.11 \text{ dBm}) = (2.42 \text{ mW} + 2.58 \text{ mW}) = 5.00 \text{ mW} = 6.99 \text{ dBm}$$

#### Sample e.i.r.p Power Spectral Density Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average CDD/SDM power density was calculated to be 6.99 dBm with directional gain of 3.02 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$6.99 \text{ dBm} + 3.02 \text{ dBi} = 8.03 \text{ dBm}$$

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## 7.6 Radiated Spurious Emissions – Above 1GHz

**§15.407(b) §15.205 §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 its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n, 802.11ax(SU) (20MHz BW), 802.11n, 802.11ax(SU) (40MHz BW), and 802.11ac, 802.11ax(SU) (80MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.***

***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 7-119 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu$ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

**Table 7-119. Radiated Limits**

### **Test Procedures Used**

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5  
KDB 789033 D02 v02r01 – Section G

### **Test Settings**

#### **Average Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

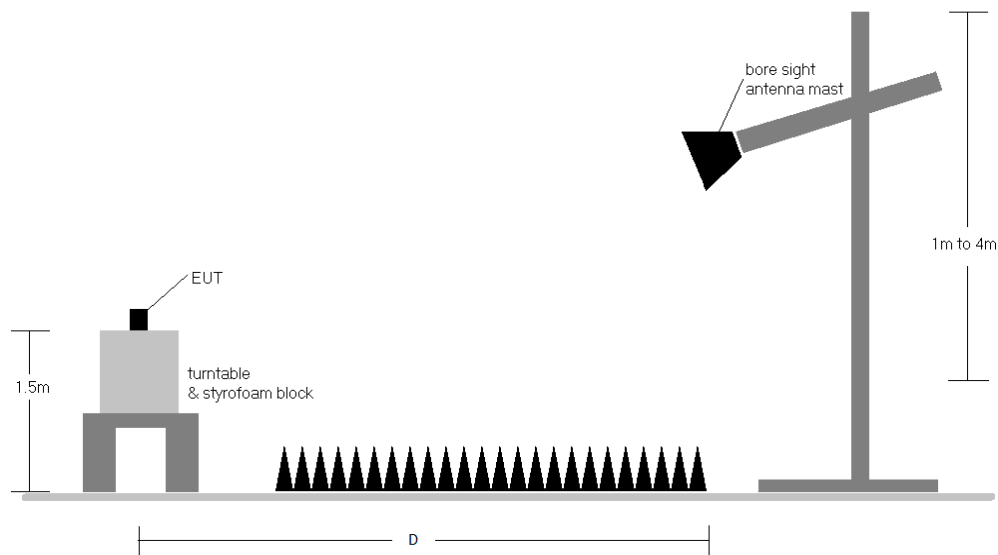
<b>FCC ID:</b> BCGA2567 <b>IC:</b> 579C-A2567	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Quality Manager
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### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Test Setup

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



**Figure 7-5. Test Instrument & Measurement Setup**

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## Test Notes

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-119.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-119. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB $\mu$ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. All data rates were investigated and only the worse case is reported
9. The unit was tested with all possible modes and only the highest emission is reported.
10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

## Sample Calculations

### Determining Spurious Emissions Levels

- Field Strength Level [dB $\mu$ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB $\mu$ V/m] – Limit [dB $\mu$ V/m]

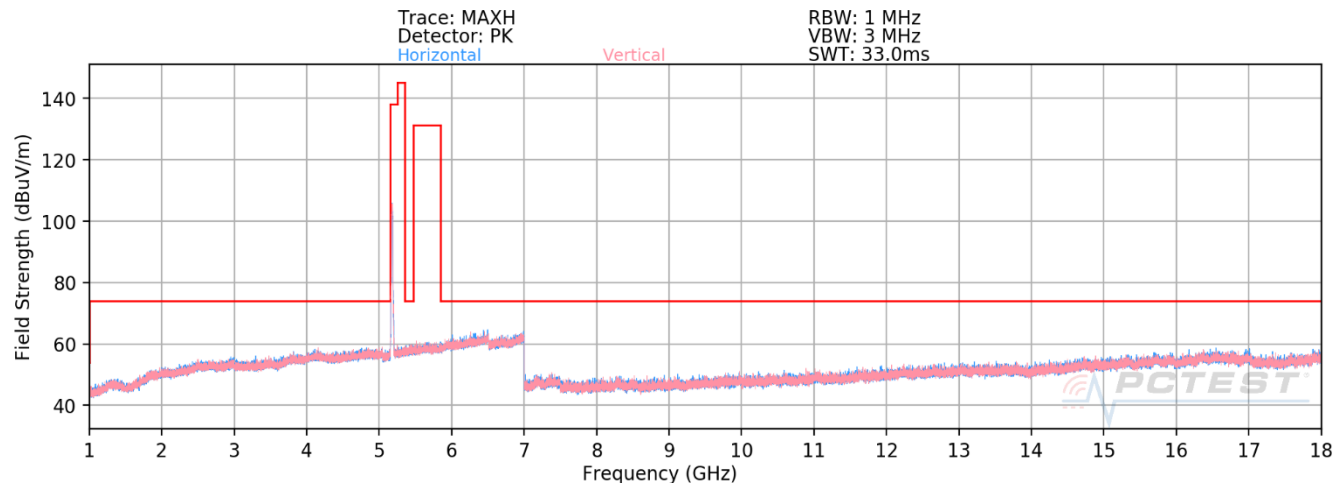
### Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Sections 7.6.4, 7.6.5, 7.6.6, 7.6.7, 7.6.8, 7.6.9, 7.6.10, 7.6.11 7.6.12 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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## 7.6.1 Antenna WF5T Radiated Spurious Emission



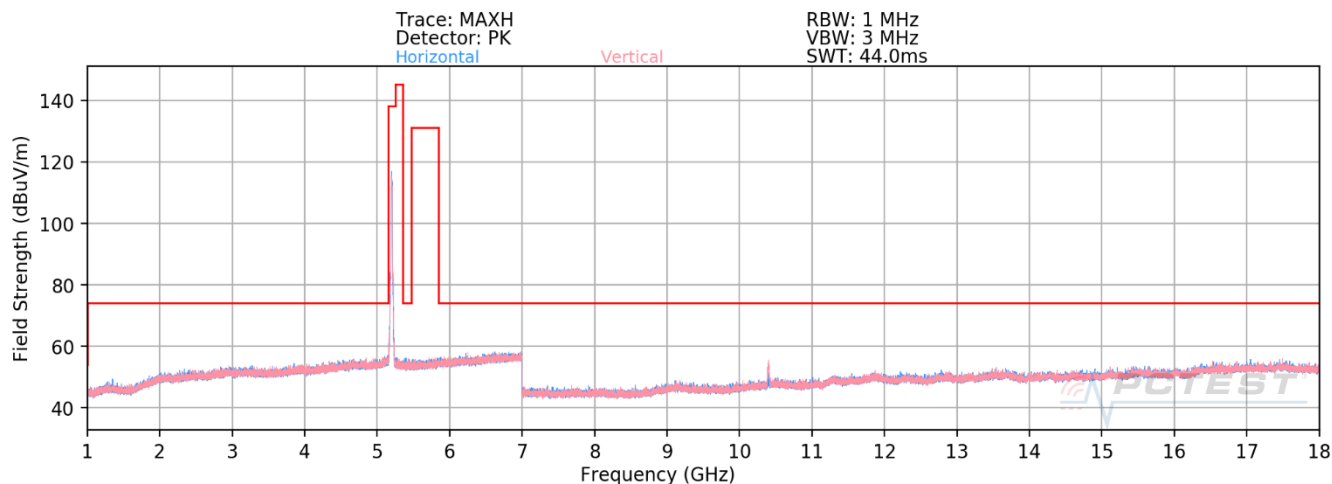
**Plot 7-505. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 36)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5180MHz  
Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10360.00	Peak	V	118	127	-59.57	11.60	59.03	68.20	-9.17
* 15540.00	Average	V	399	189	-81.30	17.04	42.74	53.98	-11.24
* 15540.00	Peak	V	399	189	-69.34	17.04	54.70	73.98	-19.28

**Table 7-120. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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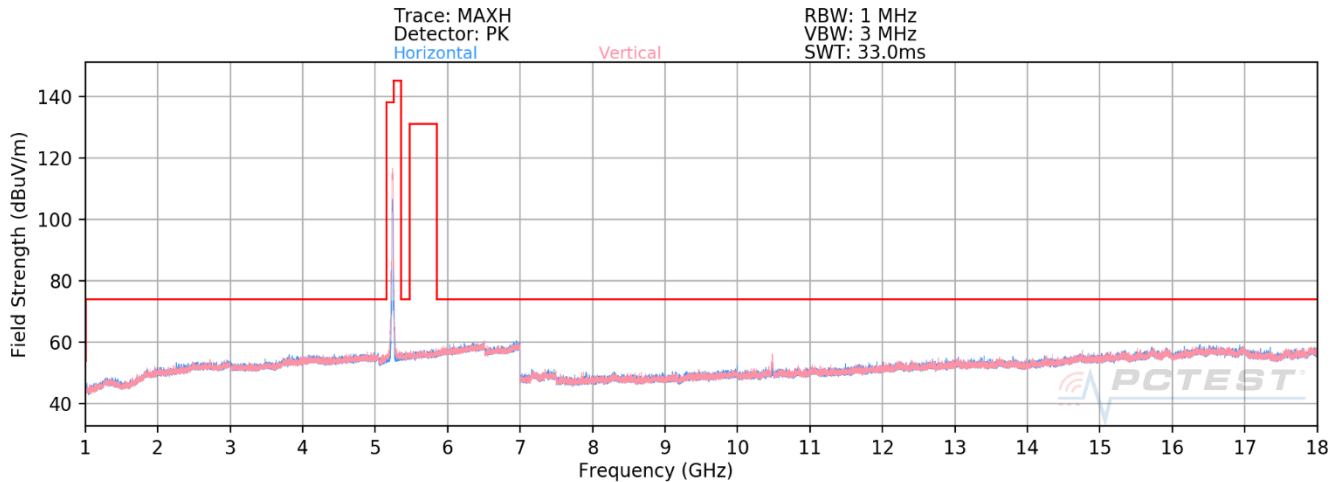
**Plot 7-506. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 40)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5200MHz  
Channel: 40

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]
10400.00	Peak	V	114	128	-59.30	11.68	59.38	68.20	-8.82
* 15600.00	Average	V	243	251	-81.82	16.50	41.68	53.98	-12.30
* 15600.00	Peak	V	243	251	-70.40	16.50	53.10	73.98	-20.88

**Table 7-121. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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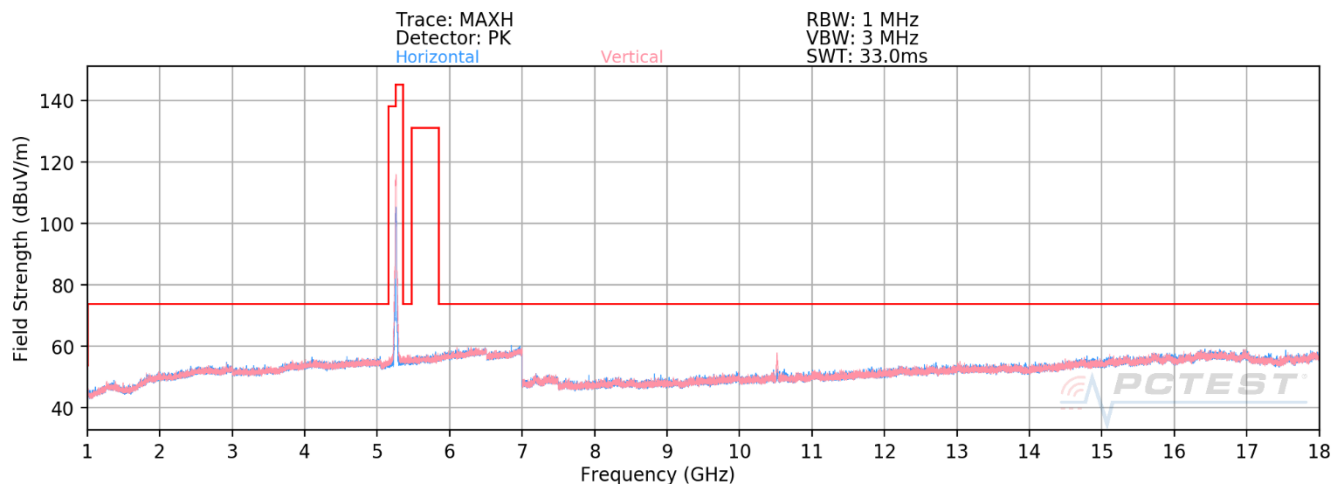
**Plot 7-507. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 48)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5240MHz  
Channel: 48

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]
10480.00	Peak	V	343	256	-66.09	15.32	56.23	68.20	-11.97
* 15720.00	Average	V	216	244	-84.44	21.24	43.80	53.98	-10.17
* 15720.00	Peak	V	216	244	-72.28	21.24	55.96	73.98	-18.01

**Table 7-122. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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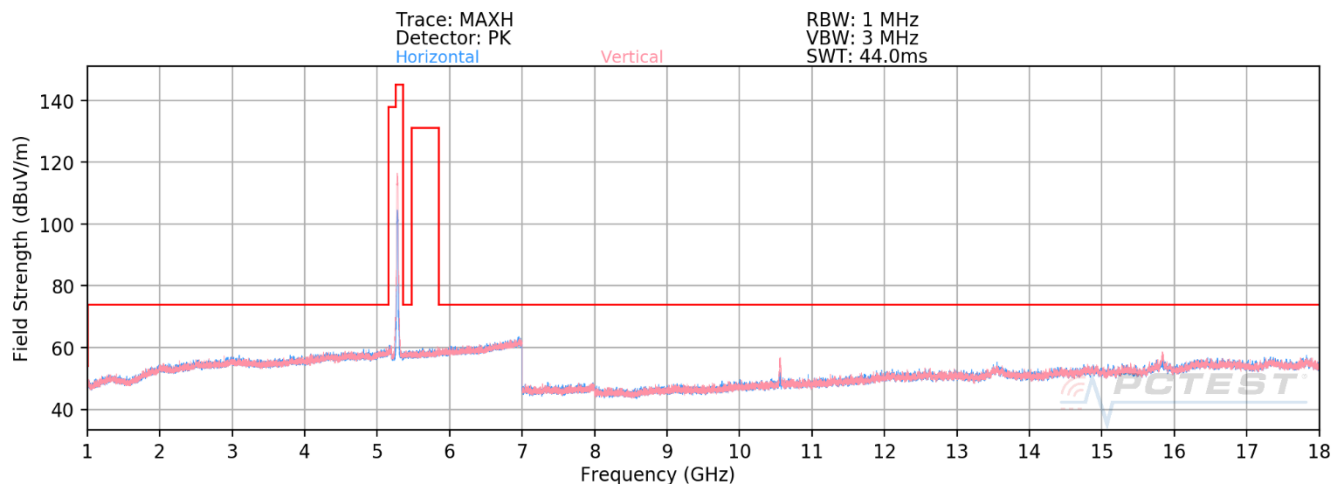
**Plot 7-508. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 52)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5260MHz  
Channel: 52

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]
10520.00	Peak	V	343	250	-64.73	15.10	57.37	68.20	-10.83
* 15780.00	Average	V	171	186	-83.15	20.23	44.08	53.98	-9.90
* 15780.00	Peak	V	171	186	-72.19	20.23	55.04	73.98	-18.94

**Table 7-123. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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**Plot 7-509. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 56)**

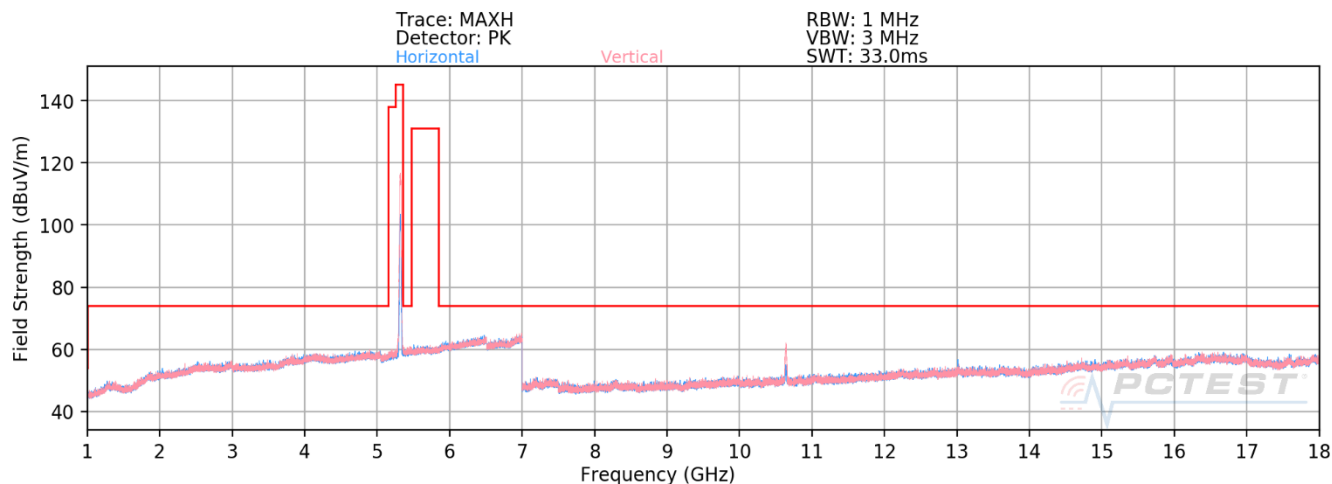
Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5280MHz  
Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10560.00	Peak	V	135	175	-62.55	14.34	58.79	68.20	-9.41
* 15840.00	Average	V	199	175	-81.57	22.30	47.73	53.98	-6.25
* 15840.00	Peak	V	199	175	-70.59	22.30	58.71	73.98	-15.27

**Table 7-124. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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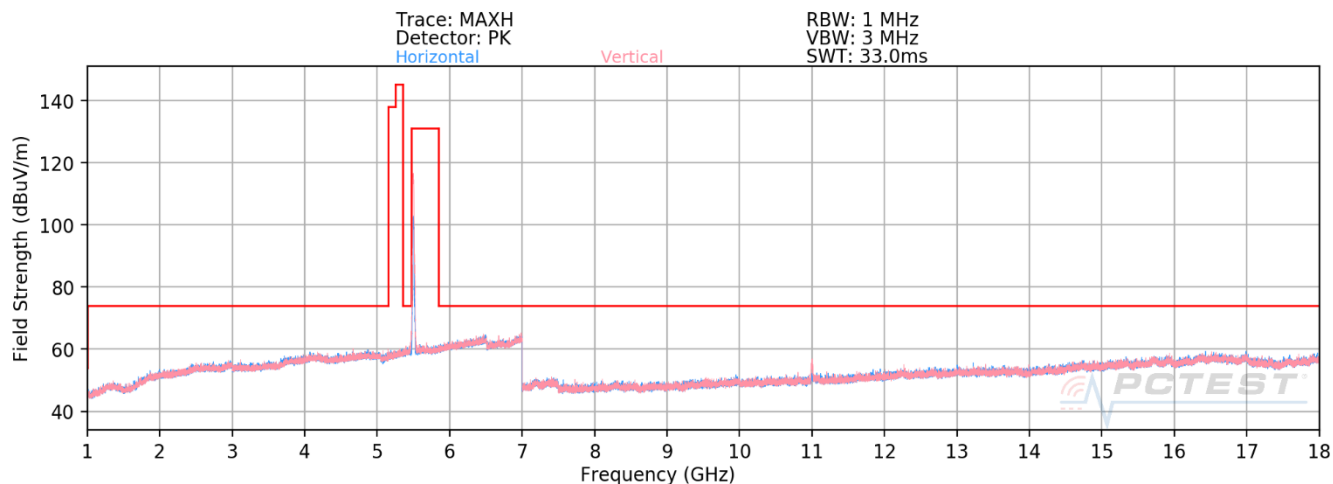
**Plot 7-510. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 64)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5320MHz  
Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 10640.00	Average	V	237	82	-75.29	14.64	46.35	53.98	-7.63
* 10640.00	Peak	V	237	82	-63.69	14.64	57.95	73.98	-16.03
* 15960.00	Average	V	199	45	-84.14	21.48	44.34	53.98	-9.64
* 15960.00	Peak	V	199	45	-73.04	21.48	55.44	73.98	-18.54

**Table 7-125. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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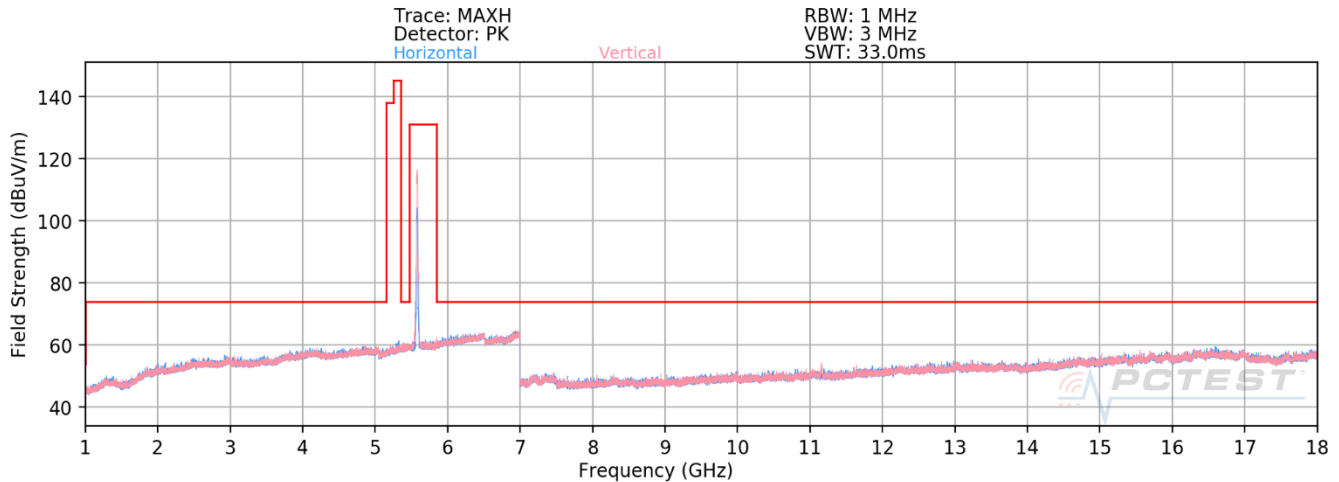
**Plot 7-511. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 100)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5500MHz  
Channel: 100

	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]
*	11000.00	Average	V	266	168	-79.13	15.20	43.07	53.98	-10.91
*	11000.00	Peak	V	266	168	-67.82	15.20	54.38	73.98	-19.60
	16500.00	Peak	V	179	320	-71.89	21.21	56.32	68.20	-11.88

**Table 7-126. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 172 of 351



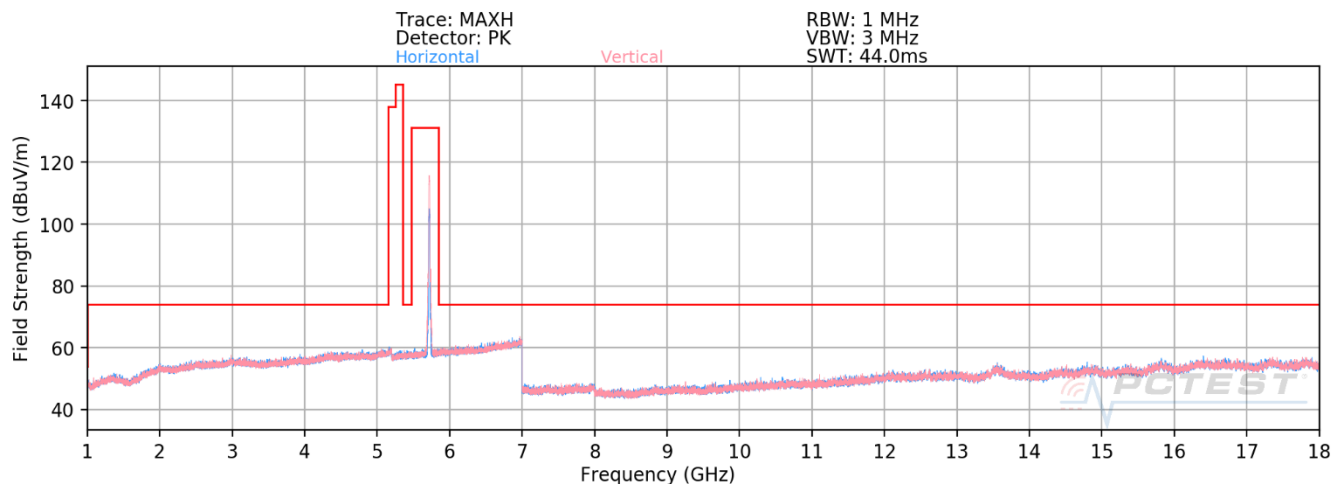
**Plot 7-512. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 116)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5580Hz  
Channel: 116

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]
* 11160.00	Average	V	264	167	-79.20	15.80	43.60	53.98	-10.38
* 11160.00	Peak	V	264	167	-69.30	15.80	53.50	73.98	-20.48
16740.00	Peak	V	-	-	-74.31	22.62	55.31	68.20	-12.89

**Table 7-127. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 173 of 351



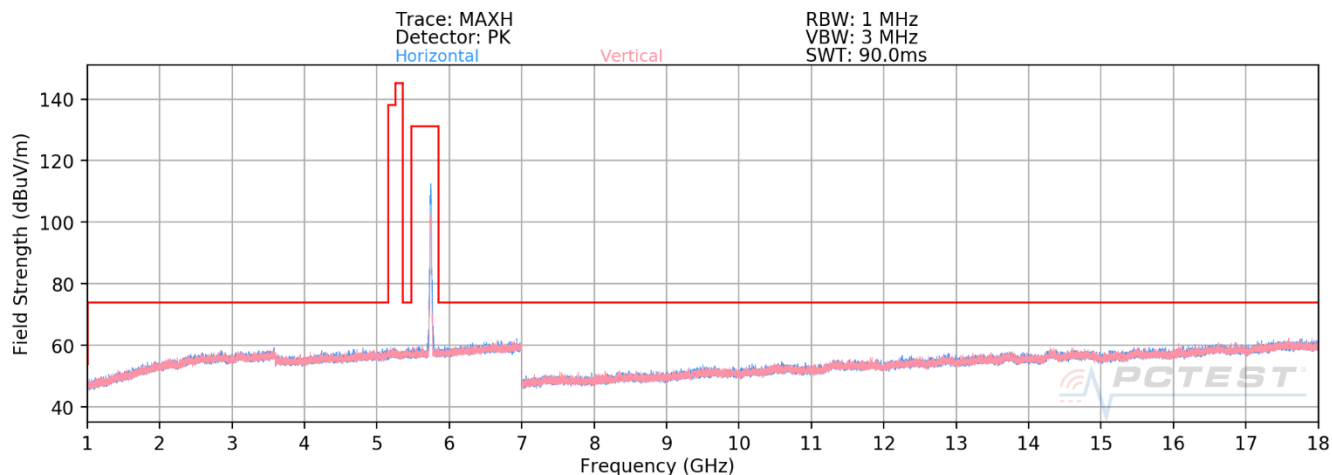
**Plot 7-513. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 144)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5720  
Channel: 144

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]
* 11440.00	Average	V	-	-	-84.50	16.18	38.68	53.98	-15.30
* 11440.00	Peak	V	-	-	-73.19	16.18	49.99	73.98	-23.99
17160.00	Peak	V	-	-	-74.04	21.10	54.06	68.20	-14.14

**Table 7-128. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 174 of 351



**Plot 7-514. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 149)**

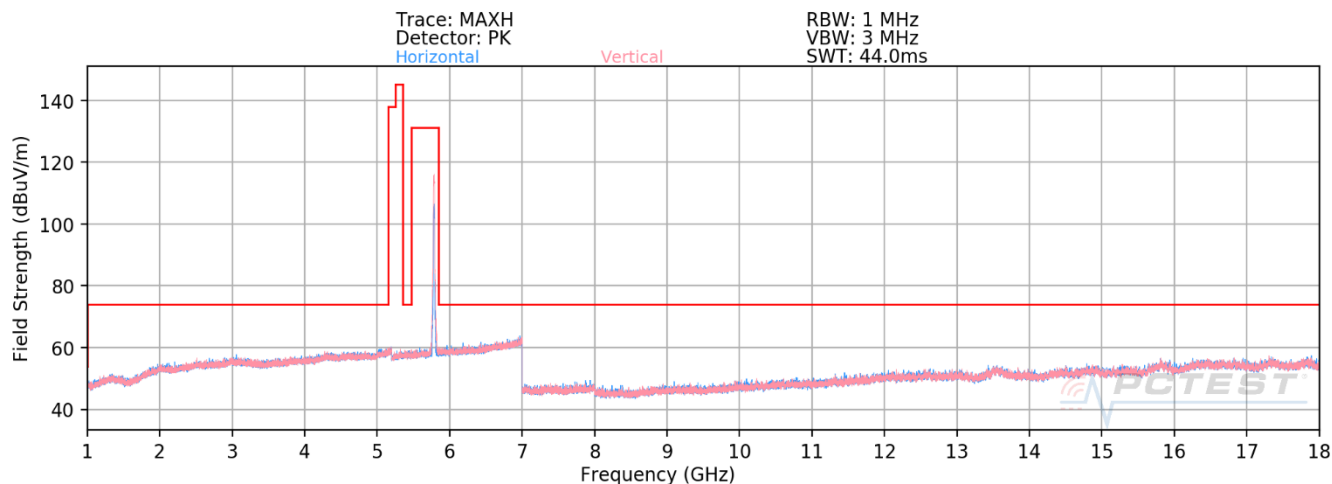
Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5745MHz  
Channel: 149

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]
* 11490.00	Average	V	125	198	-83.05	16.31	40.26	53.98	-13.72
* 11490.00	Peak	V	125	198	-73.03	16.31	50.28	73.98	-23.70
17235.00	Peak	V	-	-	-74.11	21.74	54.63	68.20	-13.57

**Table 7-129. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 175 of 351





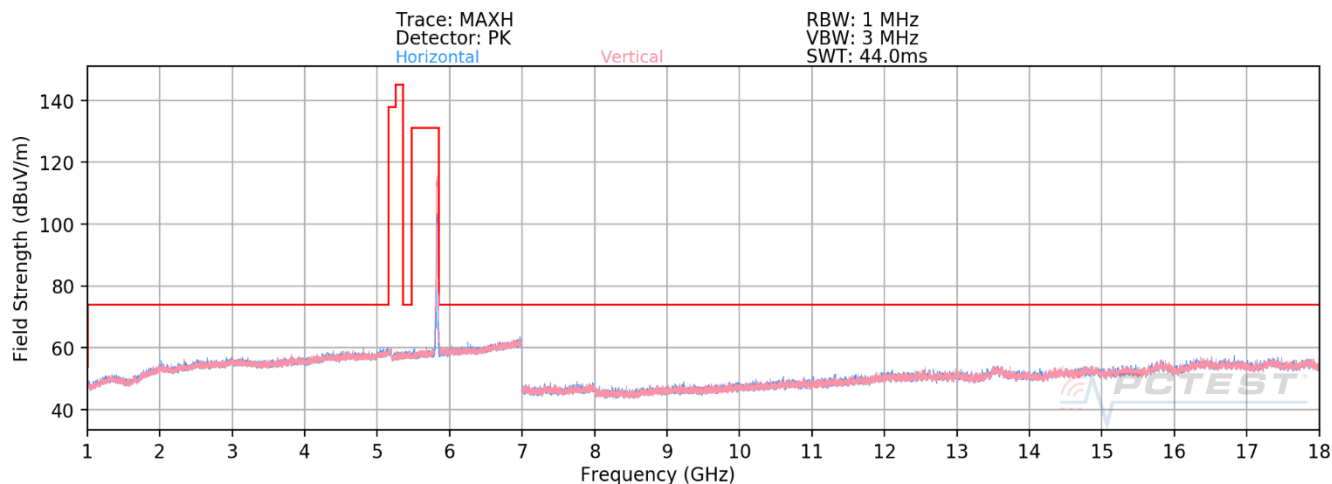
**Plot 7-515. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 157)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5785MHz  
Channel: 157

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]
* 11570.00	Average	V	239	165	-82.94	16.60	40.66	53.98	-13.32
* 11570.00	Peak	V	239	165	-72.72	16.60	50.88	73.98	-23.10
17355.00	Peak	V	-	-	-74.06	22.64	55.58	68.20	-12.62

**Table 7-130. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 176 of 351



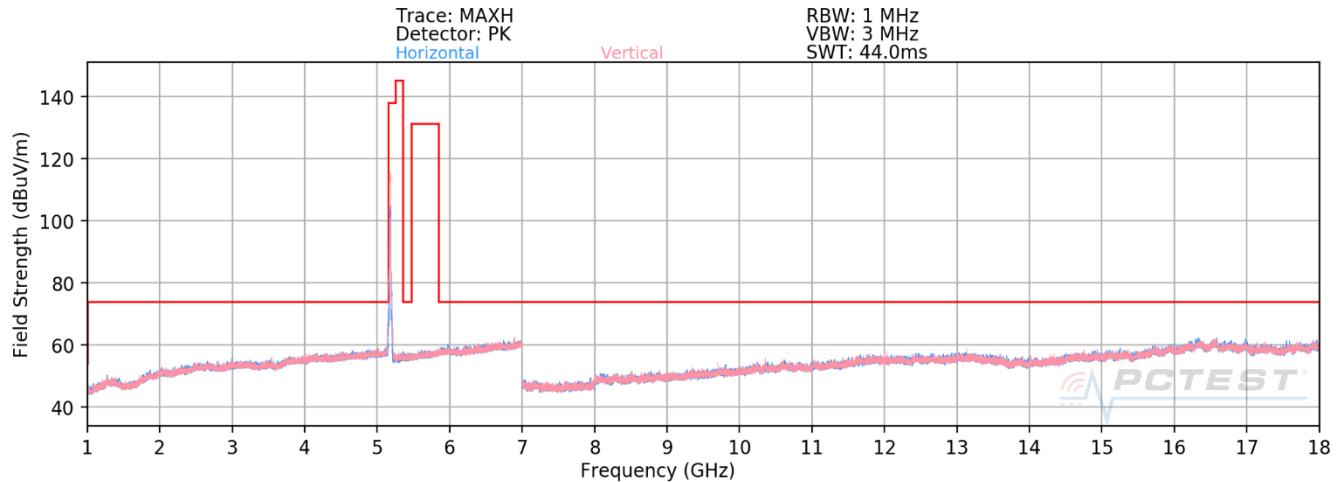
**Plot 7-516. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11n – Ch. 165)**

Mode: 802.11n  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

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]
* 11650.00	Average	V	167	177	-82.91	16.40	40.49	53.98	-13.49
* 11650.00	Peak	V	167	177	-72.47	16.40	50.93	73.98	-23.05
17475.00	Peak	V	-	-	-73.78	22.19	55.41	68.20	-12.79

**Table 7-131. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 177 of 351



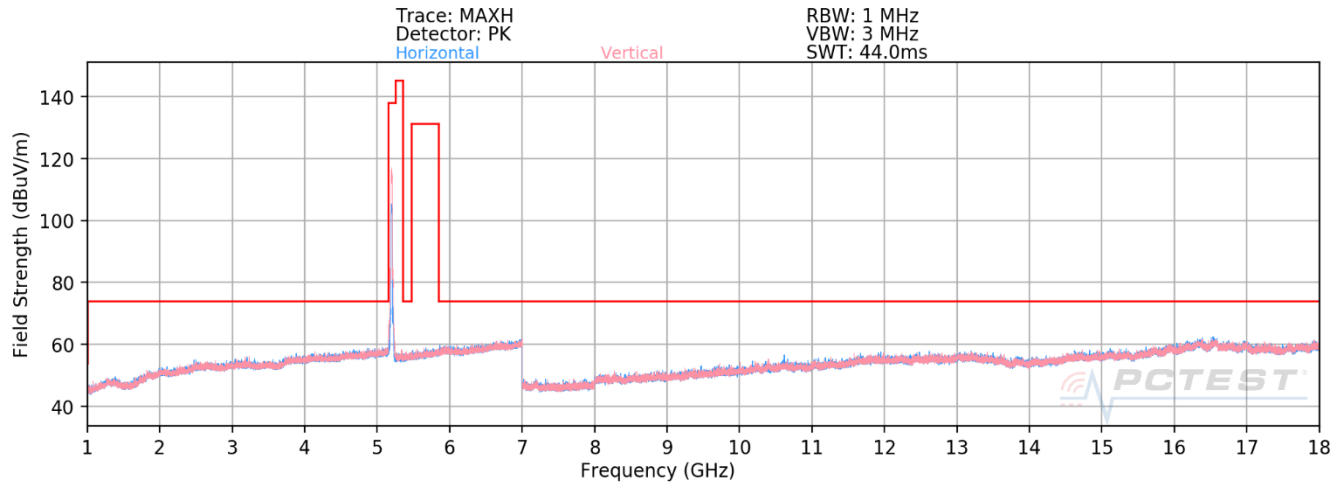
**Plot 7-517. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11ax(SU) – Ch. 36)**

Mode: 802.11ax(SU)  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5180MHz  
Channel: 36

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]
10360.00	Peak	H	-	-	-71.93	15.41	50.48	68.20	-17.72
* 15540.00	Average	H	-	-	-81.59	20.26	45.67	53.98	-8.31
* 15540.00	Peak	H	-	-	-71.60	20.26	55.66	73.98	-18.32

**Table 7-132. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 178 of 351



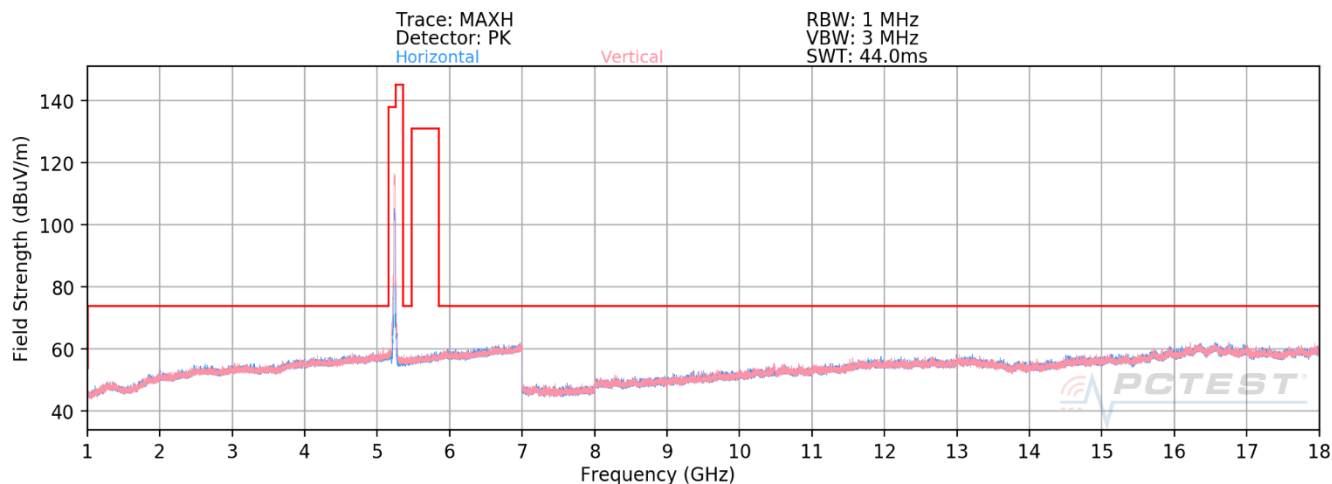
**Plot 7-518. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11ax(SU) – Ch. 40)**

Mode: 802.11ax(SU)  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5200MHz  
Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10400.00	Peak	H	389	250	-66.87	15.59	55.72	68.20	-12.48
* 15600.00	Average	H	-	-	-80.70	20.26	46.56	53.98	-7.42
* 15600.00	Peak	H	-	-	-68.79	20.26	58.47	73.98	-15.51

**Table 7-133. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 179 of 351



**Plot 7-519. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11ax(SU) – Ch. 48)**

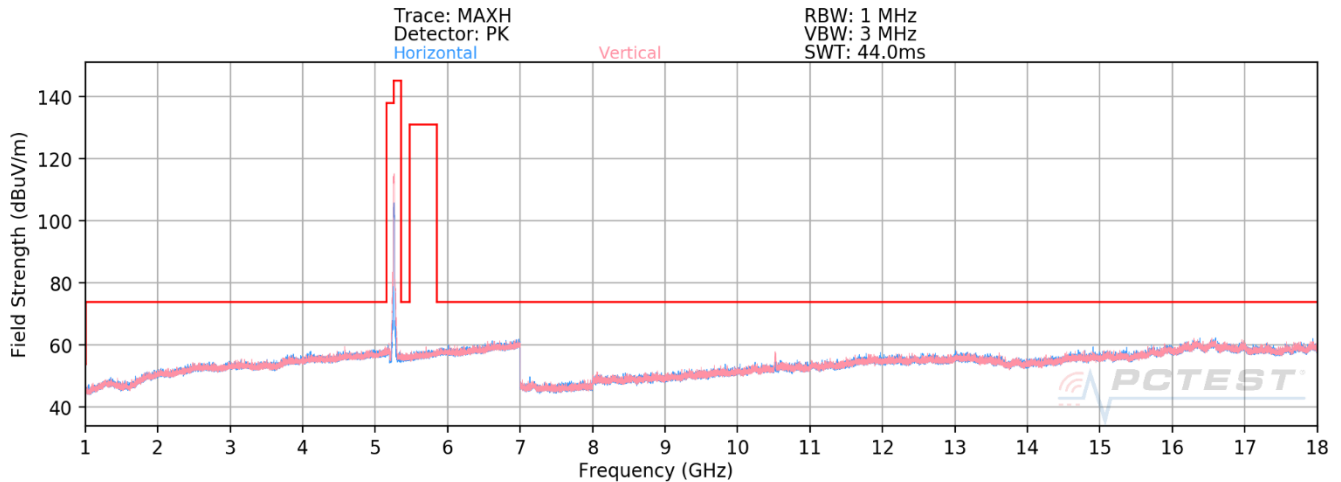
Mode: 802.11ax(SU)  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5240MHz  
Channel: 48

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]
10480.00	Peak	H	-	-	-73.73	15.32	48.59	68.20	-19.61
* 15720.00	Average	H	-	-	-82.55	21.24	45.69	53.98	-8.28
* 15720.00	Peak	H	-	-	-71.90	21.24	56.34	73.98	-17.63

**Table 7-134. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 180 of 351





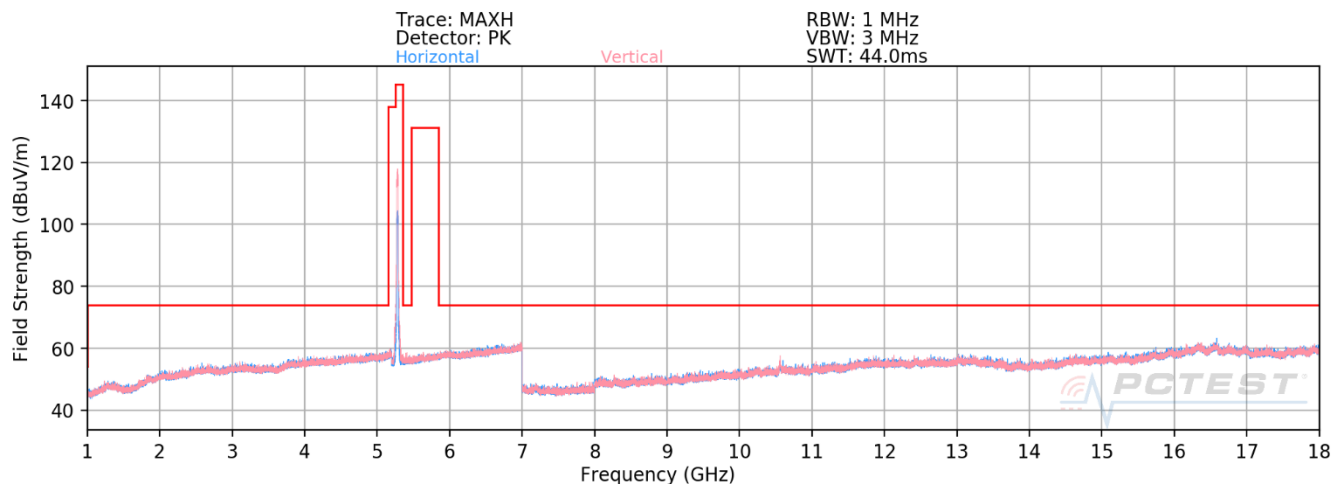
**Plot 7-520. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11ax(SU) – Ch. 52)**

Mode: 802.11ax(SU)  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5260MHz  
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.44	15.10	52.66	68.20	-15.54
* 15780.00	Average	H	-	-	-80.96	20.23	46.27	53.98	-7.71
* 15780.00	Peak	H	-	-	-69.88	20.23	57.35	73.98	-16.63

**Table 7-135. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 181 of 351



**Plot 7-521. Radiated Spurious Emissions above 1GHz Antenna WF5T (802.11ax(SU) – Ch. 56)**

Mode: 802.11ax(SU)  
Data Rate: MCS2  
Distance of Measurements: 3 Meters  
Operating Frequency: 5280MHz  
Channel: 56

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]
10560.00	Peak	H	-	-	-70.87	15.47	51.60	68.20	-16.60
* 15840.00	Average	H	-	-	-81.79	20.34	45.55	53.98	-8.42
* 15840.00	Peak	H	-	-	-72.19	20.34	55.15	73.98	-18.82

**Table 7-136. Radiated Measurements Antenna WF5T**

FCC ID: BCGA2567 IC: 579C-A2567	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080048-07.BCG	Test Dates: 6/2/2021 - 8/7/2021	EUT Type: Tablet Device	Page 182 of 351