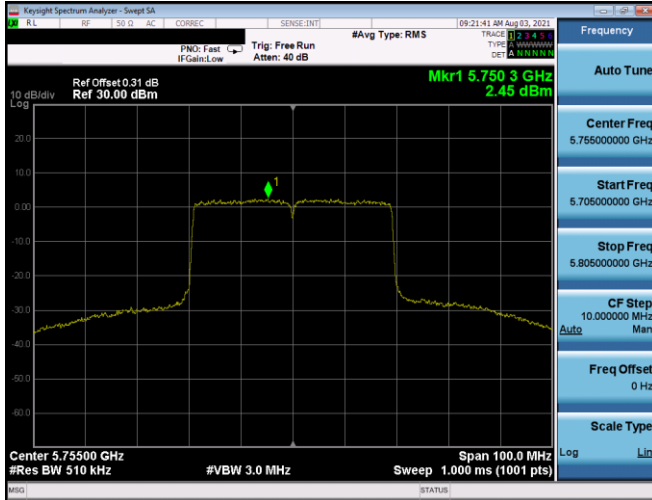
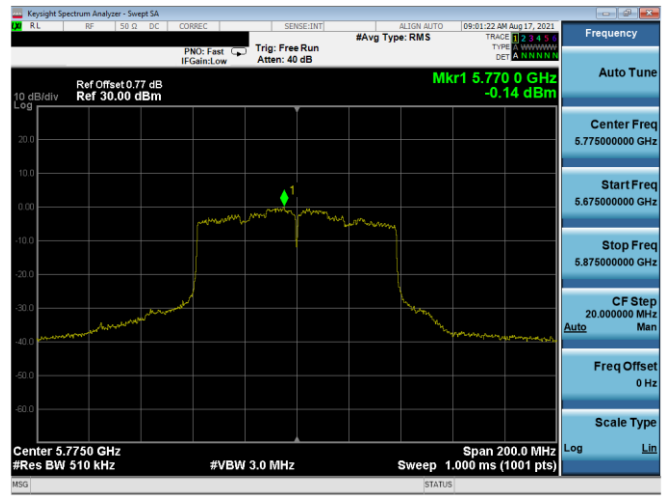
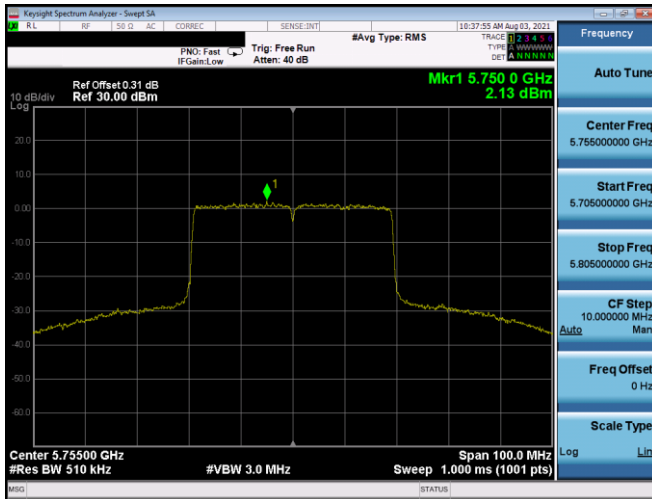




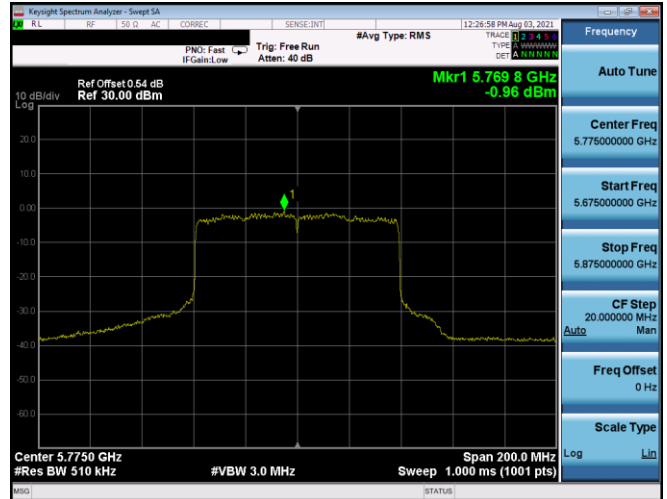
Plot 7-781. PSD CDD Antenna 5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



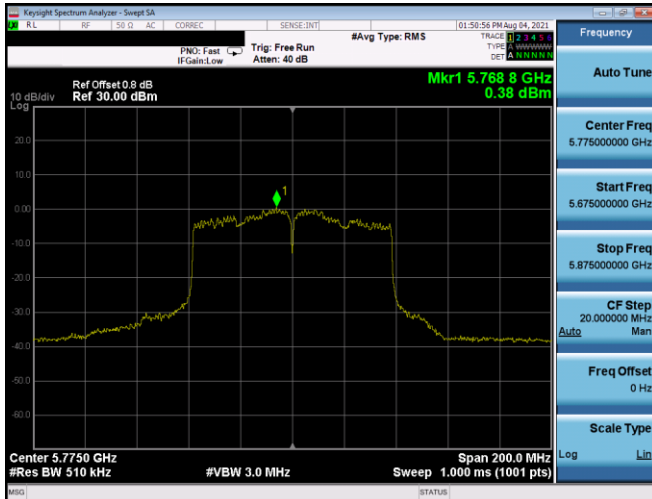
Plot 7-784. PSD CDD Antenna 1b (80MHz BW 802.11ac – Ch. 155, MCS2)



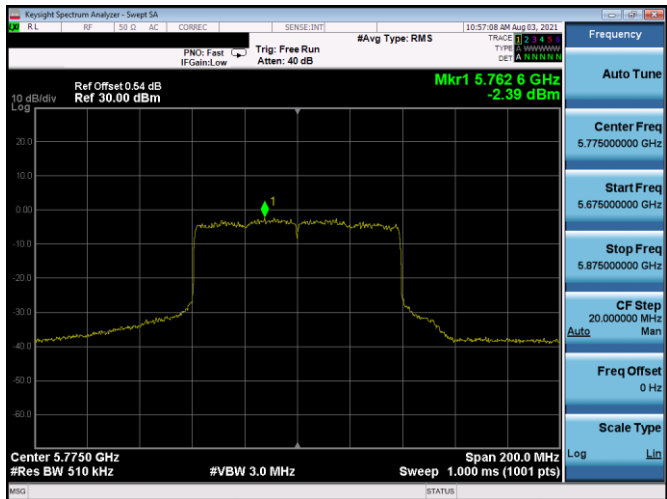
Plot 7-782. PSD CDD Antenna 1b (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



Plot 7-785. PSD CDD Antenna 5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

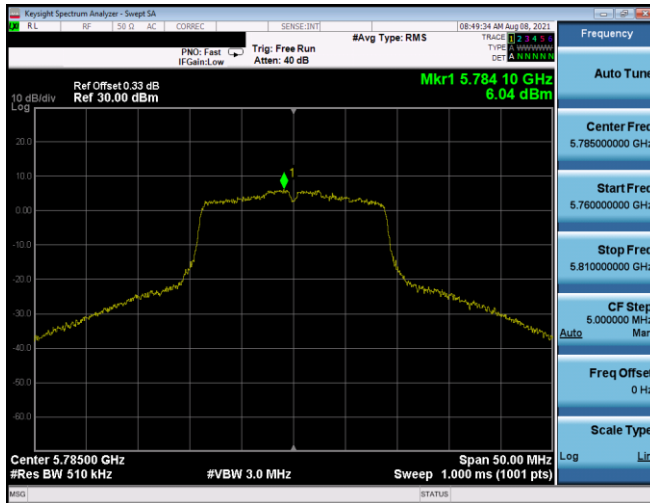


Plot 7-783. PSD CDD Antenna 5T (80MHz BW 802.11ac – Ch. 155, MCS2)

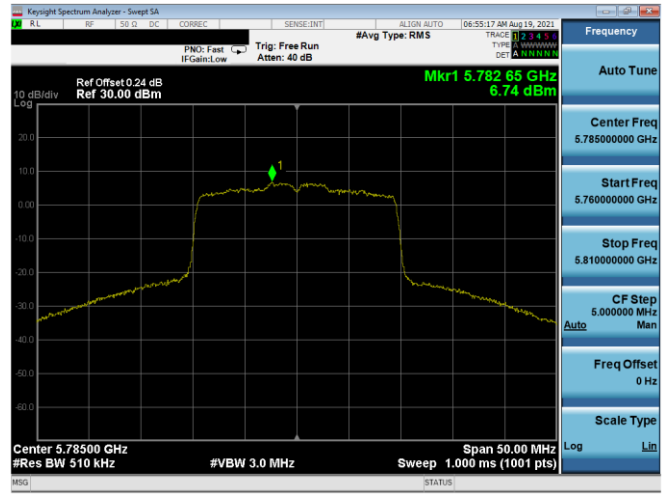


Plot 7-786. PSD CDD Antenna 1b (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

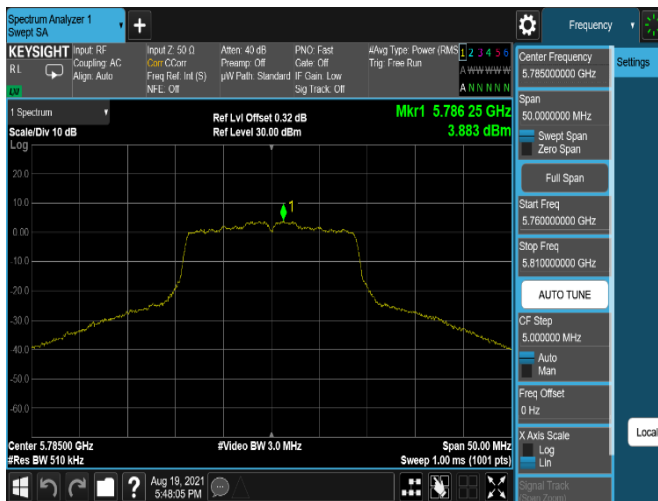
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 243 of 569



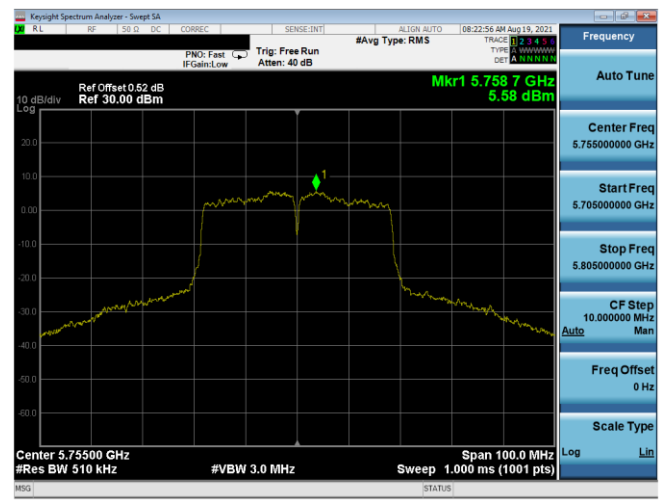
Plot 7-787. PSD CDD Antenna 5T (20MHz BW 802.11n – Ch. 157, MCS11)



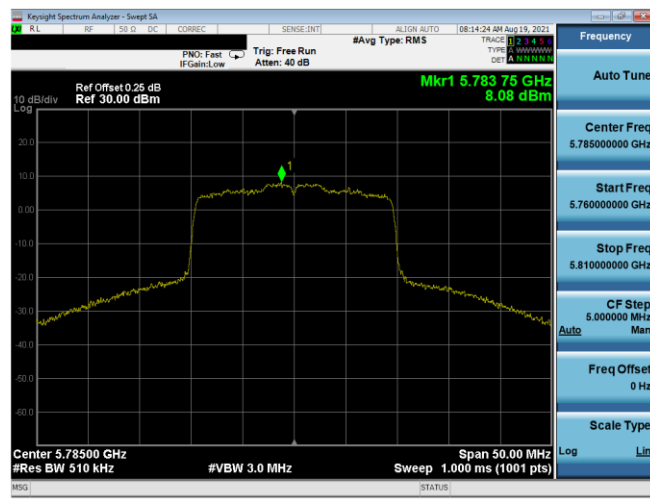
Plot 7-790. PSD CDD Antenna 1b (20MHz BW 802.11ax(SU) – Ch. 157, MCS3)



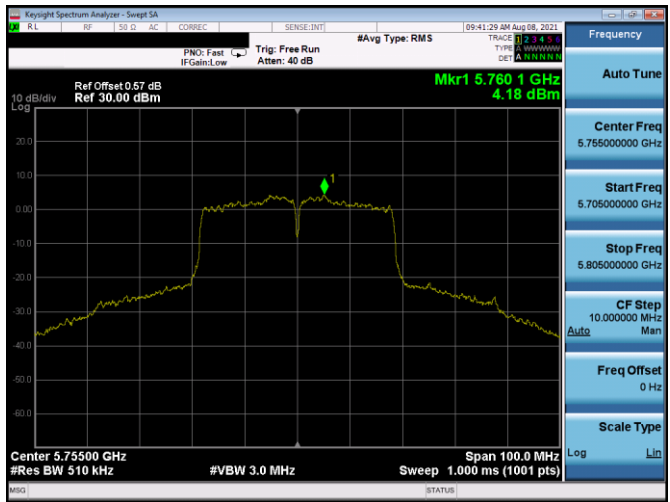
Plot 7-788. PSD CDD Antenna 1b (20MHz BW 802.11n – Ch. 157, MCS11)



Plot 7-791. PSD CDD Antenna 5T (40MHz BW 802.11n – Ch. 151, MCS11)

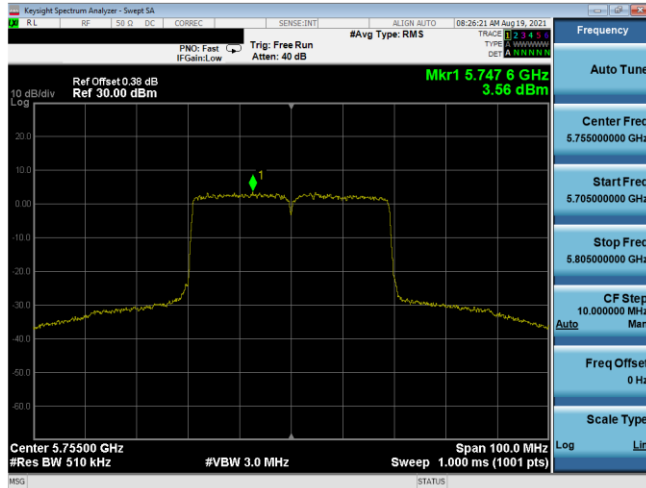


Plot 7-789. PSD CDD Antenna 5T (20MHz BW 802.11ax(SU) – Ch. 157, MCS3)

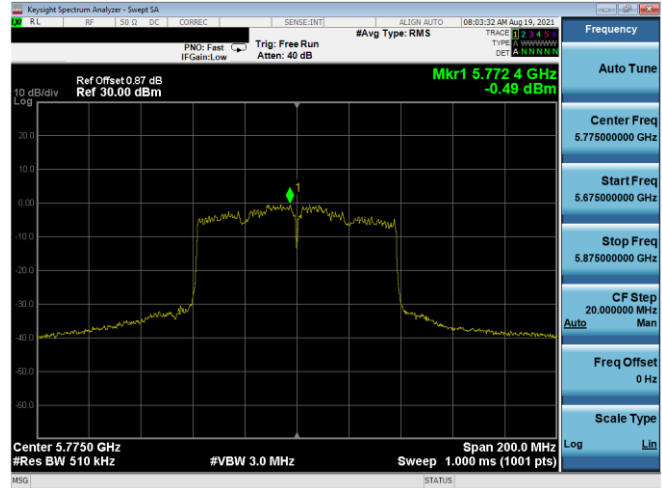


Plot 7-792. PSD CDD Antenna 1b (40MHz BW 802.11n – Ch. 151, MCS11)

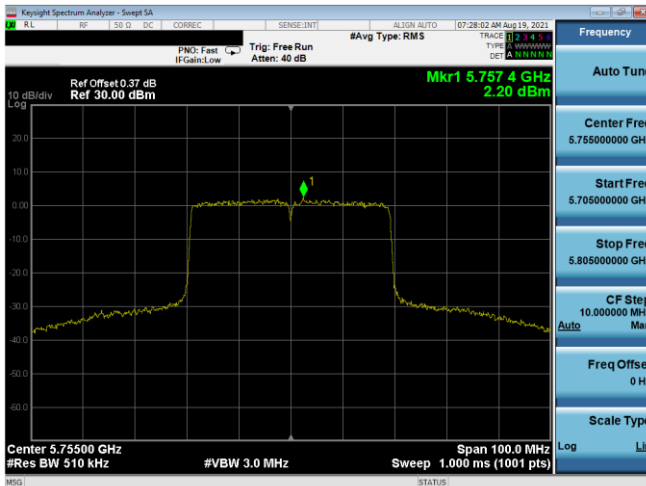
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 244 of 569



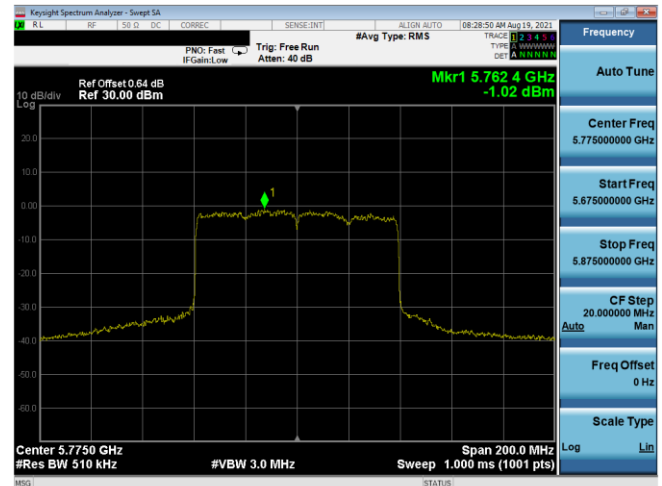
Plot 7-793. PSD CDD Antenna 5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS3)



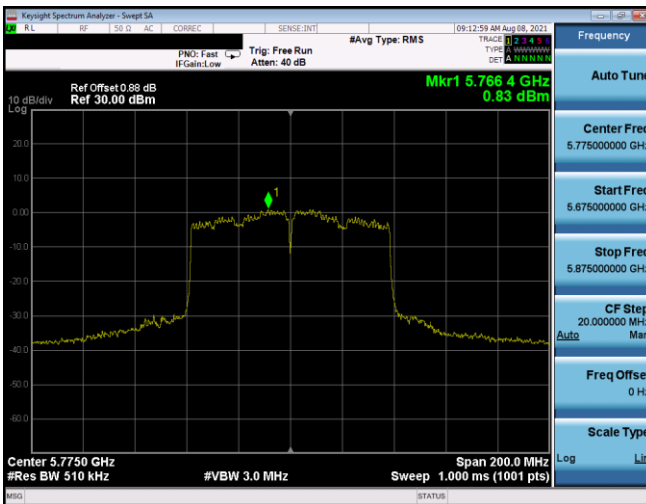
Plot 7-796. PSD CDD Antenna 1b (80MHz BW 802.11ac – Ch. 155, MCS3)



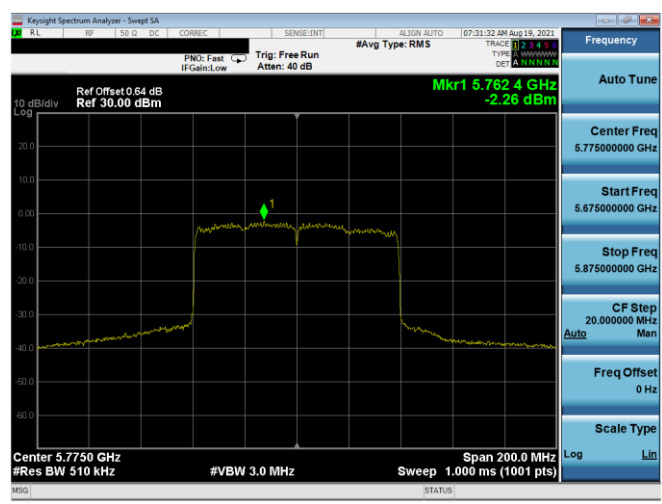
Plot 7-794. PSD CDD Antenna 1b (40MHz BW 802.11ax(SU) – Ch. 151, MCS3)



Plot 7-797. PSD CDD Antenna 5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS3)

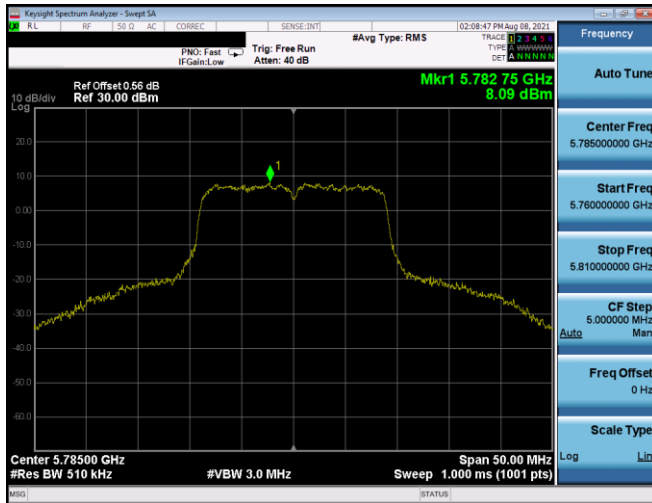


Plot 7-795. PSD CDD Antenna 5T (80MHz BW 802.11ac – Ch. 155, MCS3)

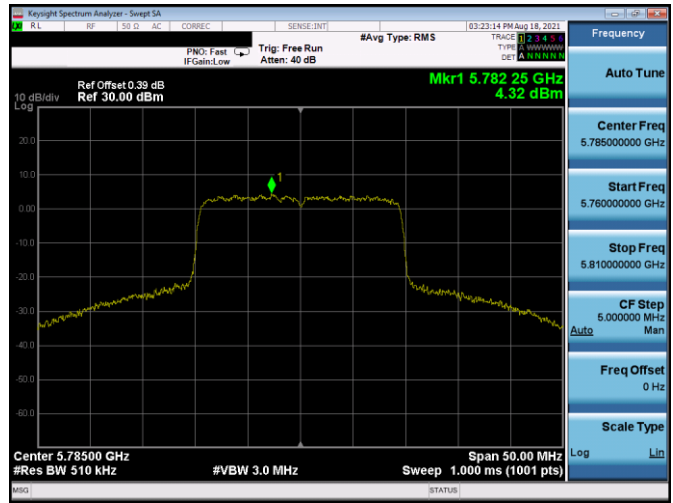


Plot 7-798. PSD CDD Antenna 1b (80MHz BW 802.11ax(SU) – Ch. 155, MCS3)

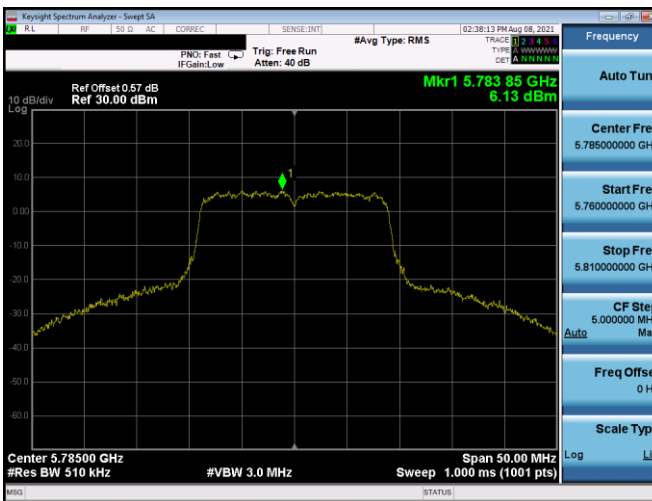
FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 245 of 569



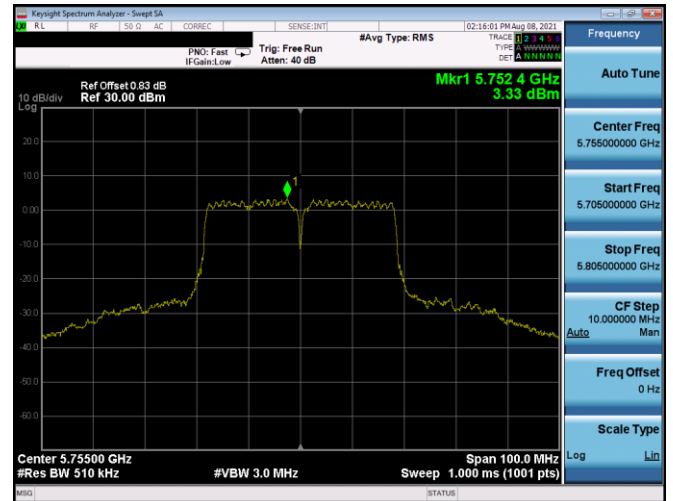
Plot 7-799. PSD CDD Antenna 5T (20MHz BW 802.11n - Ch. 157, MCS13)



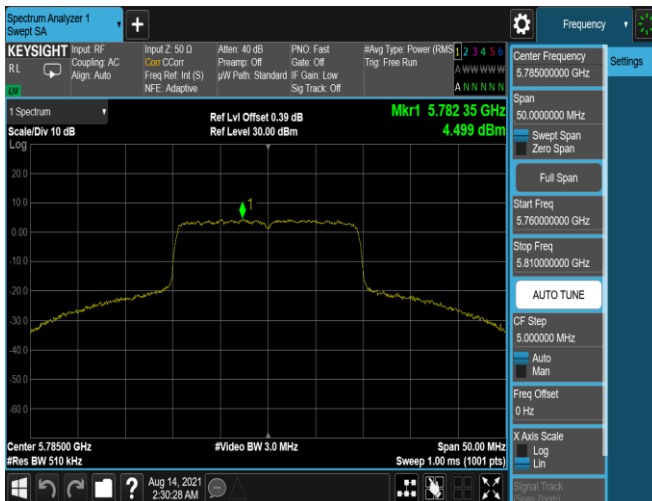
Plot 7-802. PSD CDD Antenna 1b (20MHz BW 802.11ax(SU) - Ch. 157, MCS5)



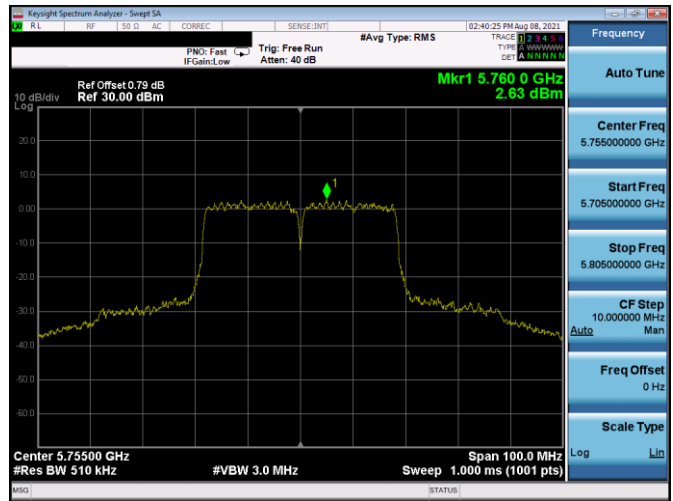
Plot 7-800. PSD CDD Antenna 1b (20MHz BW 802.11n - Ch. 157, MCS13)



Plot 7-803. PSD CDD Antenna 5T (40MHz BW 802.11n - Ch. 151, MCS13)

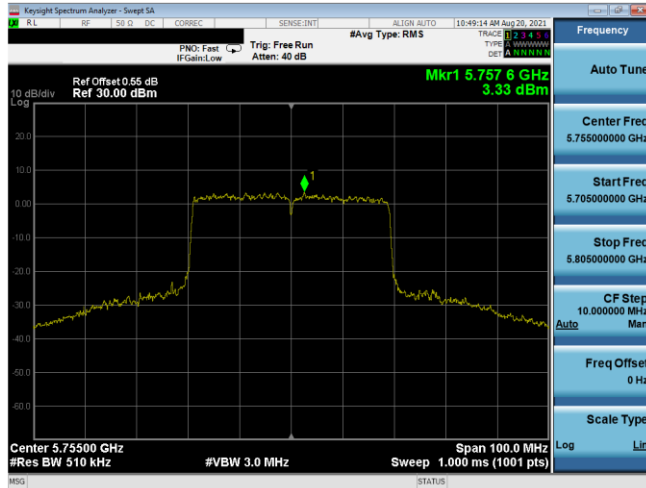


Plot 7-801. PSD CDD Antenna 5T (20MHz BW 802.11ax(SU) - Ch. 157, MCS5)

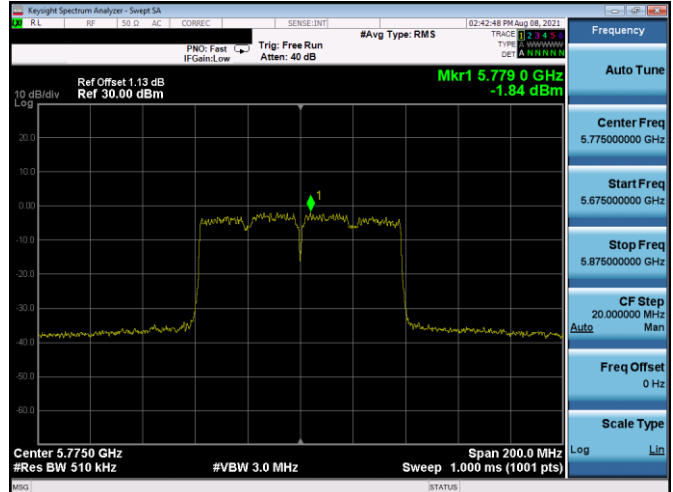


Plot 7-804. PSD CDD Antenna 1b (40MHz BW 802.11n - Ch. 151, MCS13)

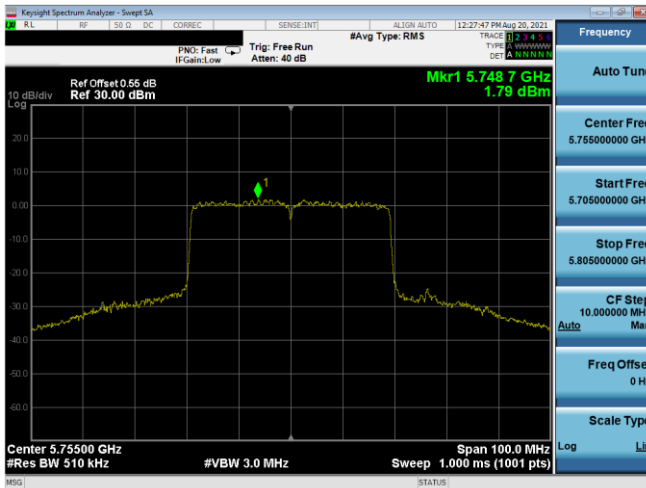
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 - 8/26/2021	EUT Type: Tablet Device	Page 246 of 569



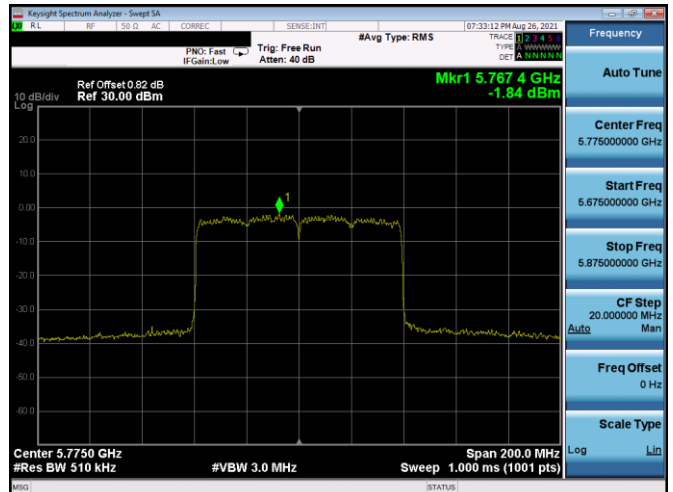
Plot 7-805. PSD CDD Antenna 5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS5)



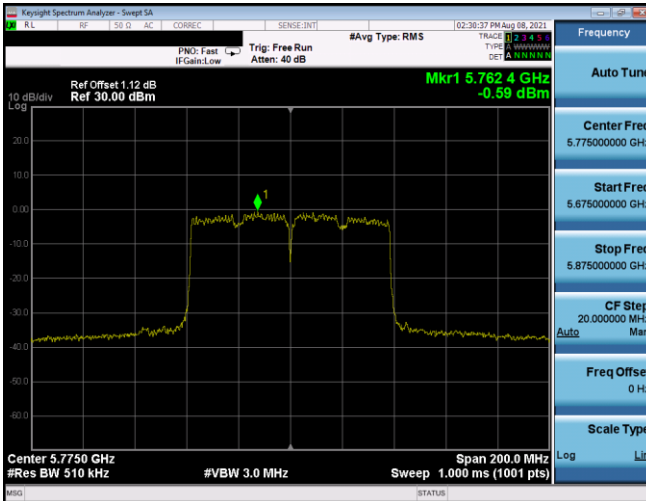
Plot 7-808. PSD CDD Antenna 1b (80MHz BW 802.11ac – Ch. 155, MCS5)



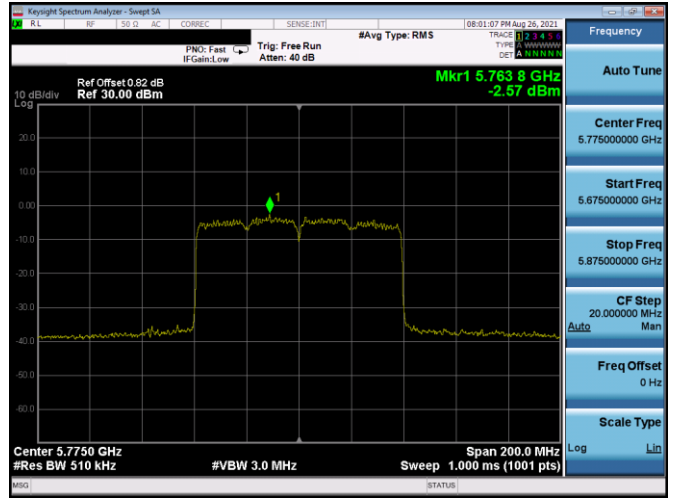
Plot 7-806. PSD CDD Antenna 1b (40MHz BW 802.11ax(SU) – Ch. 151, MCS5)



Plot 7-809. PSD CDD Antenna 5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS5)



Plot 7-807. PSD CDD Antenna 5T (80MHz BW 802.11ac – Ch. 155, MCS5)



Plot 7-810. PSD CDD Antenna 1b (80MHz BW 802.11ax(SU) – Ch. 155, MCS5)

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 247 of 569

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna 5T Power Density [dBm/MHz]	Antenna 1b 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)	2.59	1.70	5.18	1.70	6.88	10.0	-3.12
	5200	40	n (20MHz)	SDM	39/43.3 (MCS10)	3.49	2.07	5.85	1.70	7.55	10.0	-2.45
	5240	48	n (20MHz)	SDM	39/43.3 (MCS10)	3.08	2.72	5.92	1.70	7.62	10.0	-2.38
	5180	36	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	2.07	1.24	4.68	1.70	6.38	10.0	-3.62
	5200	40	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	1.45	1.91	4.70	1.70	6.40	10.0	-3.60
	5240	48	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	1.67	1.86	4.77	1.70	6.47	10.0	-3.53
	5190	38	n (40MHz)	SDM	81/90 (MCS10)	0.89	1.49	4.21	1.70	5.91	10.0	-4.09
	5230	46	n (40MHz)	SDM	81/90 (MCS10)	3.10	2.29	5.72	1.70	7.42	10.0	-2.58
	5190	38	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	-1.74	-1.33	1.48	1.70	3.18	10.0	-6.82
	5230	46	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	0.01	0.51	3.28	1.70	4.98	10.0	-5.02
	5210	42	ac (80MHz)	SDM	175.5/195 (MCS2)	-0.67	-1.90	1.77	1.70	3.47	10.0	-6.53
	5210	42	ax (SU) (80MHz)	SDM	204/216.2 (MCS2)	-2.52	-3.50	0.03	1.70	1.73	10.0	-8.27

Table 7-200. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Antenna 5T & 1b) (Low Data Rate)

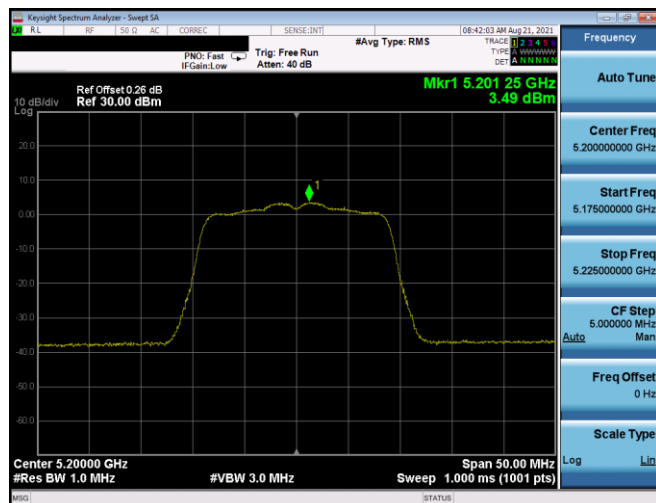
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna 5T Power Density [dBm/MHz]	Antenna 1b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	52/57.8 (MCS11)	2.96	1.23	5.19	1.70	6.89	10.0	-3.11
	5200	40	n (20MHz)	SDM	52/57.8 (MCS11)	3.17	1.62	5.48	1.70	7.18	10.0	-2.82
	5240	48	n (20MHz)	SDM	52/57.8 (MCS11)	3.16	1.46	5.40	1.70	7.10	10.0	-2.90
	5180	36	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	4.81	3.77	7.33	1.70	9.03	10.0	-0.97
	5200	40	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	2.73	1.84	5.32	1.70	7.02	10.0	-2.98
	5240	48	ax (SU) (20MHz)	SDM	66/68.8 (MCS3)	2.66	2.02	5.36	1.70	7.06	10.0	-2.94
	5190	38	n (40MHz)	SDM	108/120 (MCS11)	1.82	0.37	4.16	1.70	5.86	10.0	-4.14
	5230	46	n (40MHz)	SDM	108/120 (MCS11)	3.20	2.22	5.75	1.70	7.45	10.0	-2.55
	5190	38	ax (SU) (40MHz)	SDM	130/137.6 (MCS3)	-1.40	-2.76	0.99	1.70	2.69	10.0	-7.31
	5230	46	ax (SU) (40MHz)	SDM	130/137.6 (MCS3)	1.81	0.31	7.30	1.70	9.00	10.0	-1.00
	5210	42	ac (80MHz)	SDM	234/260 (MCS3)	-0.97	-2.98	1.15	1.70	2.85	10.0	-7.15
	5210	42	ax (SU) (80MHz)	SDM	272/288.2 (MCS3)	-4.97	-4.85	-1.90	1.70	-0.20	10.0	-10.20

Table 7-201. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Antenna 5T & 1b) (Mid Data Rate)

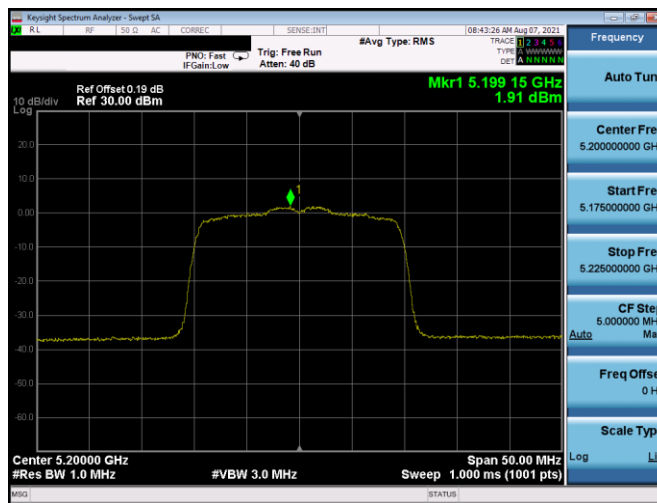
	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [Mbps]	Antenna 5T Power Density [dBm/MHz]	Antenna 1b Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	SDM	104/115.6 (MCS13)	1.64	0.28	4.03	1.70	5.73	10.0	-4.27
	5200	40	n (20MHz)	SDM	104/115.6 (MCS13)	1.97	0.34	4.24	1.70	5.94	10.0	-4.06
	5240	48	n (20MHz)	SDM	104/115.6 (MCS13)	2.35	0.38	4.48	1.70	6.18	10.0	-3.82
	5180	36	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	0.41	0.13	3.28	1.70	4.98	10.0	-5.02
	5200	40	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	0.65	0.35	3.51	1.70	5.21	10.0	-4.79
	5240	48	ax (SU) (20MHz)	SDM	130/137.6 (MCS5)	0.89	0.15	3.55	1.70	5.25	10.0	-4.75
	5190	38	n (40MHz)	SDM	216/240 (MCS13)	0.14	-1.41	2.44	1.70	4.14	10.0	-5.86
	5230	46	n (40MHz)	SDM	216/240 (MCS13)	2.07	0.50	4.37	1.70	6.07	10.0	-3.93
	5190	38	ax (SU) (40MHz)	SDM	260/275.3 (MCS5)	-2.12	-2.57	0.67	1.70	2.37	10.0	-7.63
	5230	46	ax (SU) (40MHz)	SDM	260/275.3 (MCS5)	0.97	0.52	3.76	1.70	5.46	10.0	-4.54
	5210	42	ac (80MHz)	SDM	468/520 (MCS5)	-4.38	-4.82	-1.58	1.70	0.12	10.0	-9.88
	5210	42	ax (SU) (80MHz)	SDM	574/576.5 (MCS5)	-4.45	-5.62	-1.99	1.70	-0.28	10.0	-10.28

Table 7-202. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Antenna 5T & 1b) (High Data Rate)

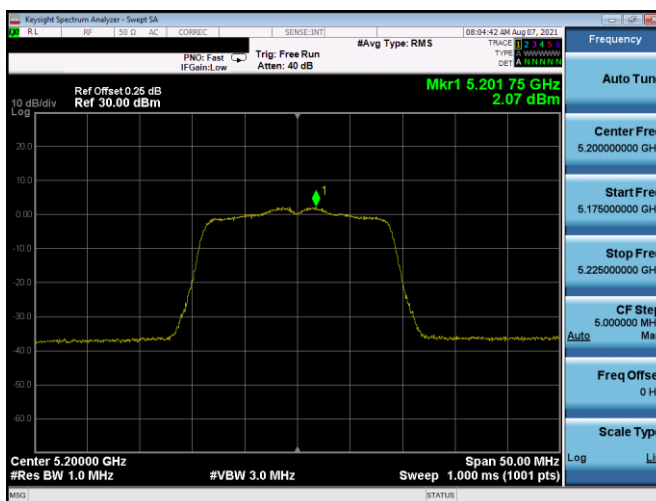
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 248 of 569



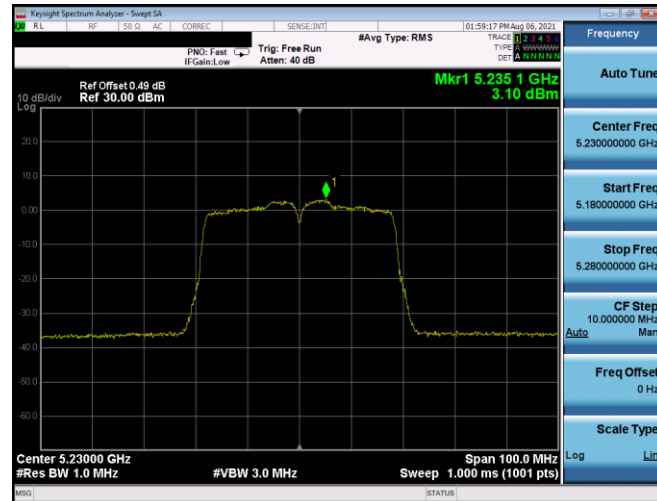
Plot 7-811. ISED PSD SDM Antenna 5T (20MHz BW 11n – Ch.40, MCS10)



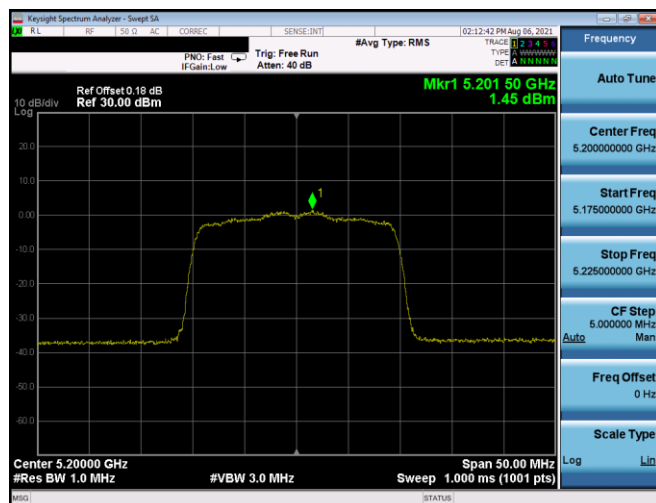
Plot 7-814. ISED PSD SDM Antenna 1b (20MHz BW 11ax(SU) – Ch.40, MCS2)



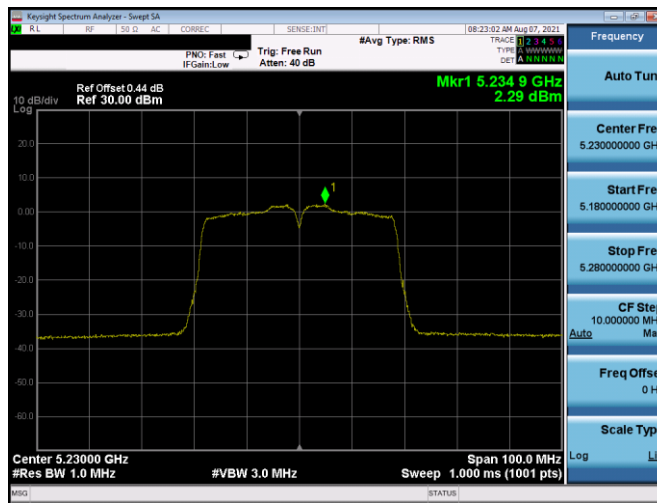
Plot 7-812. ISED PSD SDM Antenna 1b (20MHz BW 11n – Ch.40, MCS10)



Plot 7-815. ISED PSD SDM Antenna 5T (40MHz BW 11n – Ch.46, MCS10)

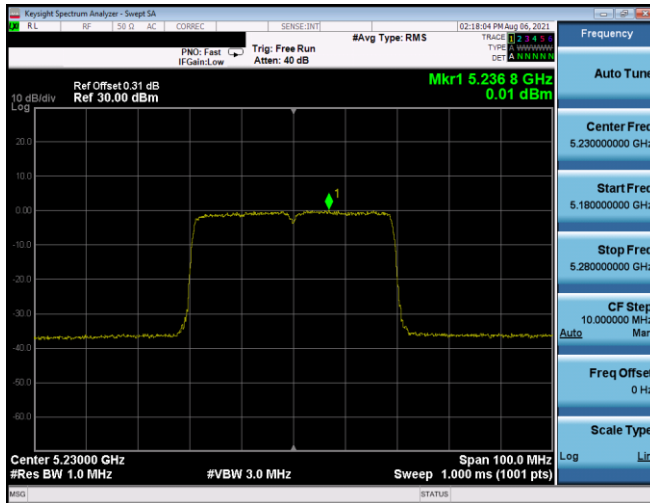


Plot 7-813. ISED PSD SDM Antenna 5T (20MHz BW 11ax(SU) – Ch.40, MCS2)

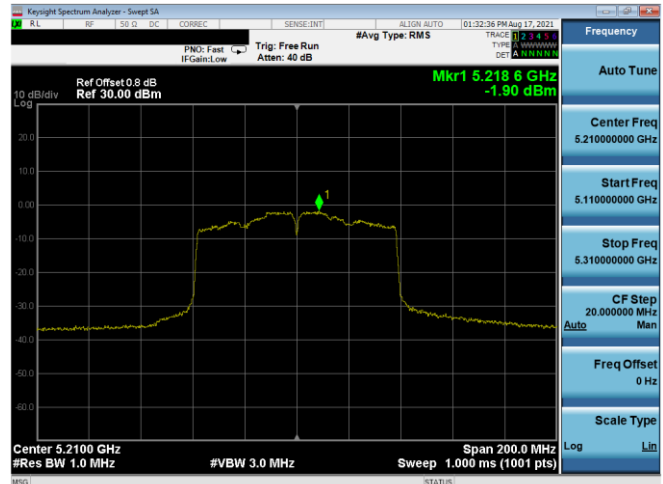


Plot 7-816. ISED PSD SDM Antenna 1b (40MHz BW 11n – Ch.46, MCS10)

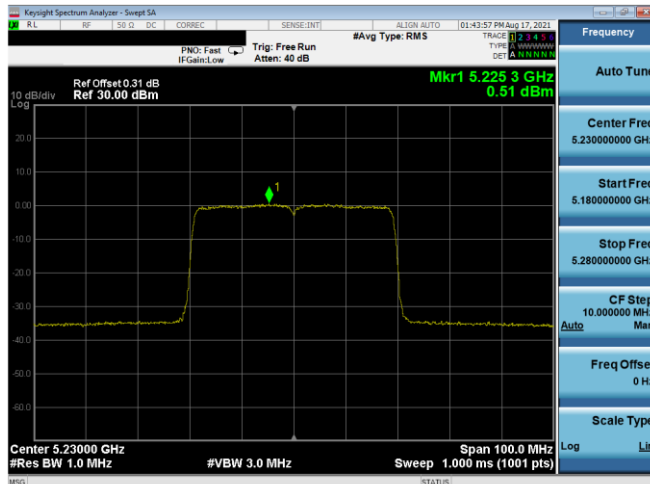
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-14.BCG	Test Dates: 6/2/2021 – 8/26/2021	EUT Type: Tablet Device	Page 249 of 569



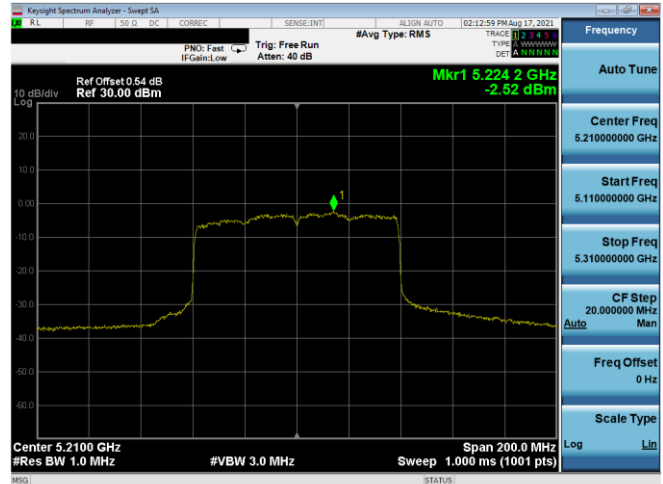
Plot 7-817. ISED PSD SDM Antenna 5T (40MHz BW 11ax(SU) – Ch.46, MCS2)



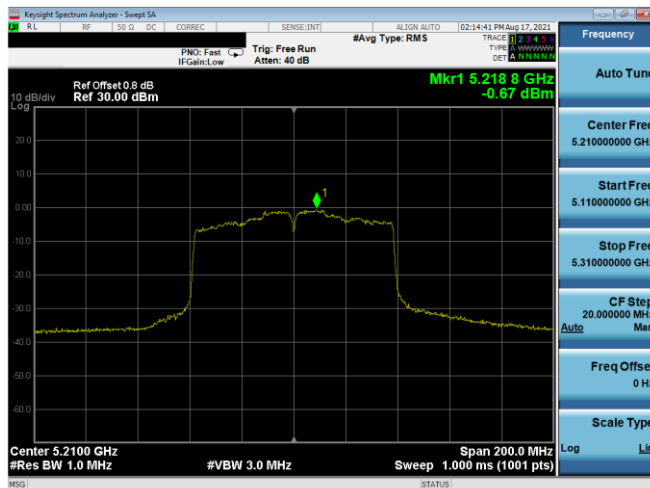
Plot 7-820. ISED PSD SDM Antenna 1b (80MHz BW 11ac – Ch.42, MCS2)



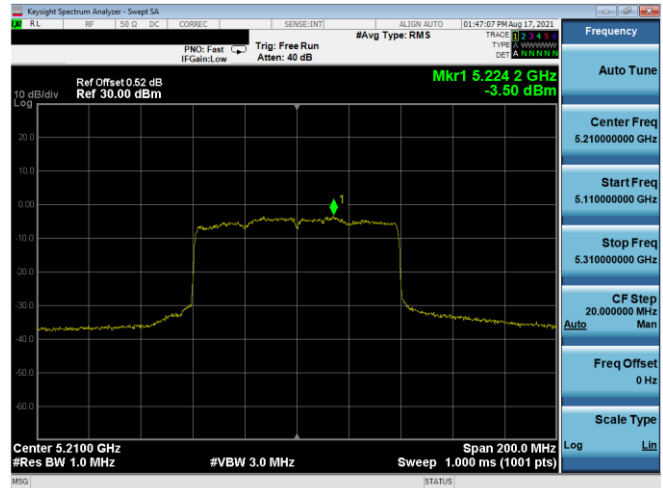
Plot 7-818. ISED SDM PSD Antenna 1b (40MHz BW 11ax(SU) – Ch.46, MCS2)



Plot 7-821. ISED PSD SDM Antenna 5T (80MHz BW 11ax (SU) – Ch.42, MCS2)

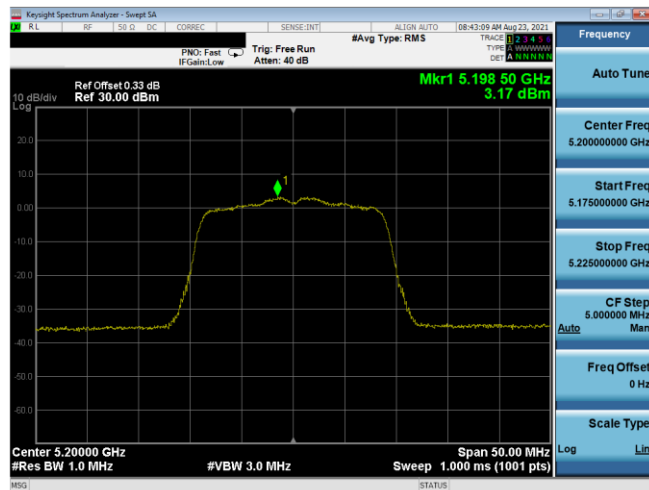


Plot 7-819. ISED PSD SDM Antenna 5T (80MHz BW 11ac – Ch.42, MCS2)

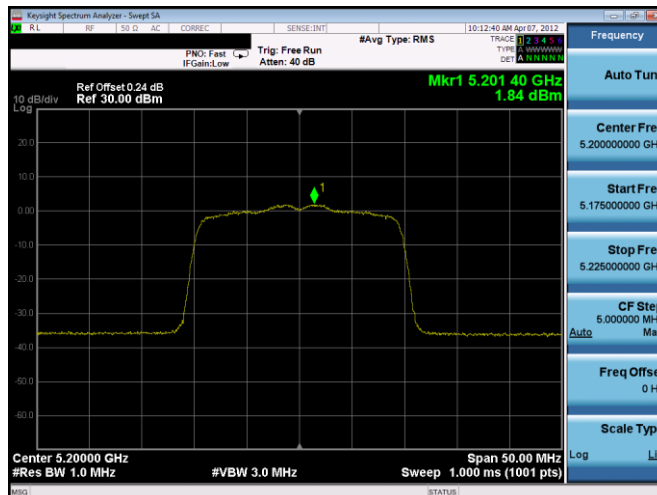


Plot 7-822. ISED PSD SDM Antenna 1b (80MHz BW 11ax (SU) – Ch.42, MCS2)

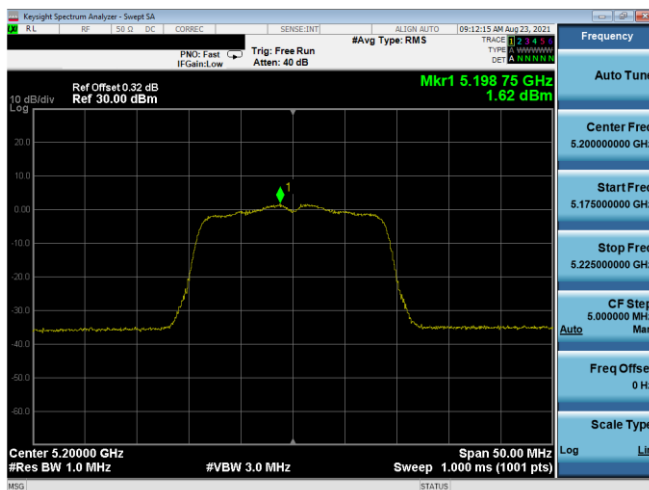
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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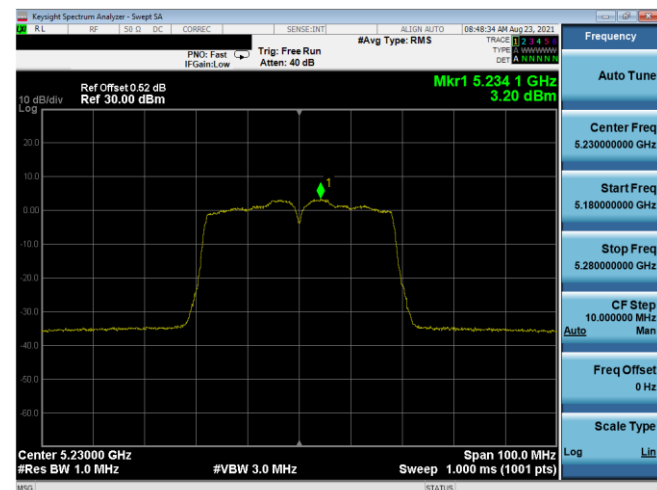
Plot 7-823. ISED PSD SDM Antenna 5T (20MHz BW 11n – Ch.40, MCS11)



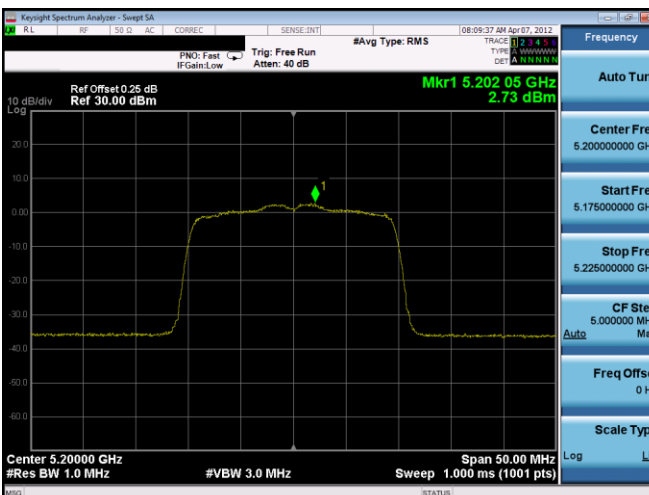
Plot 7-826. ISED PSD SDM Antenna 1b (20MHz BW 11ax(SU) – Ch.40, MCS3)



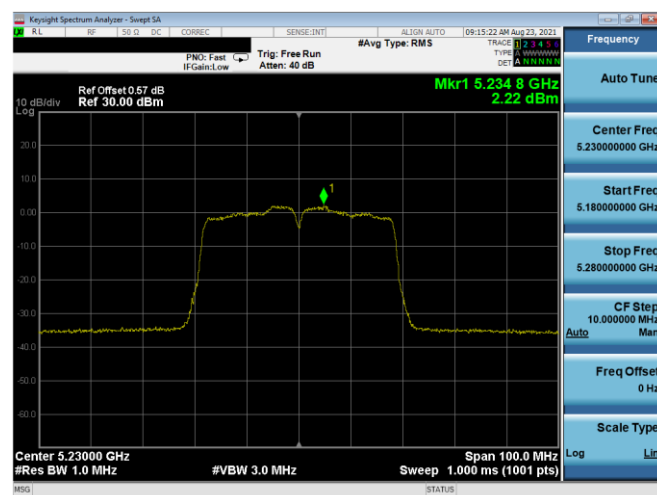
Plot 7-824. ISED PSD SDM Antenna 1b (20MHz BW 11n – Ch.40, MCS11)



Plot 7-827. ISED PSD SDM Antenna 5T (40MHz BW 11n – Ch.46, MCS11)

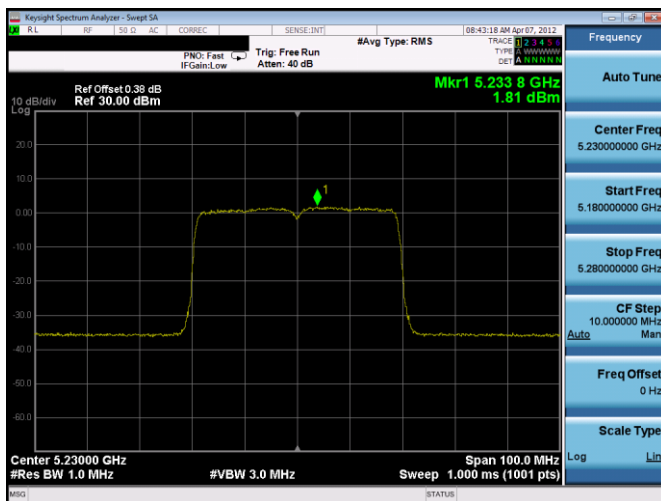


Plot 7-825. ISED PSD SDM Antenna 5T (20MHz BW 11ax(SU) – Ch.40, MCS3)

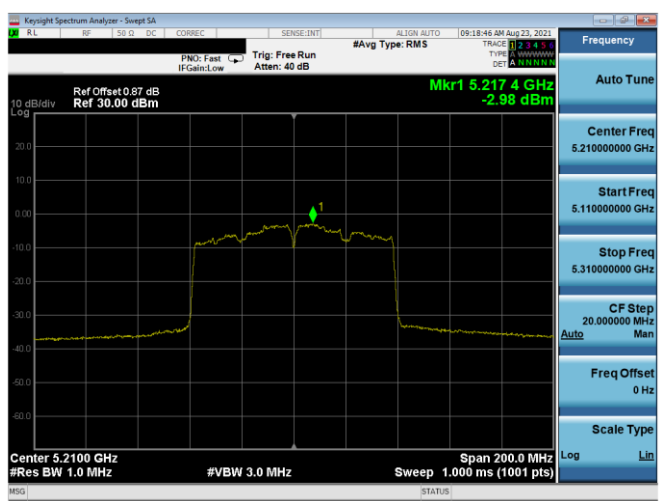


Plot 7-828. ISED PSD SDM Antenna 1b (40MHz BW 11n – Ch.46, MCS11)

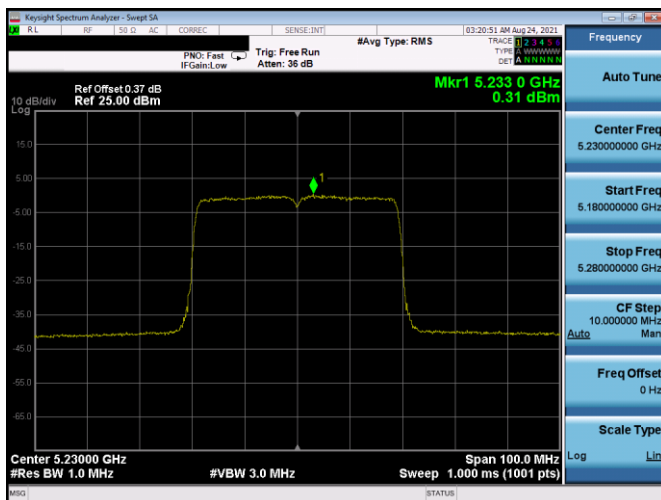
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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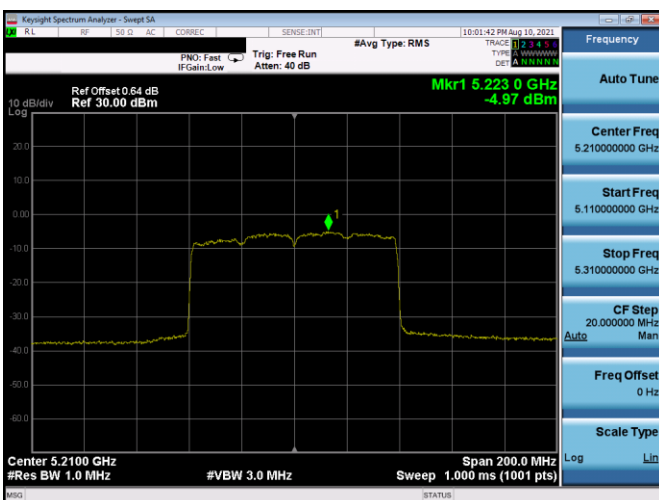
Plot 7-829. ISED PSD SDM Antenna 5T (40MHz BW 11ax(SU) – Ch.46, MCS3)



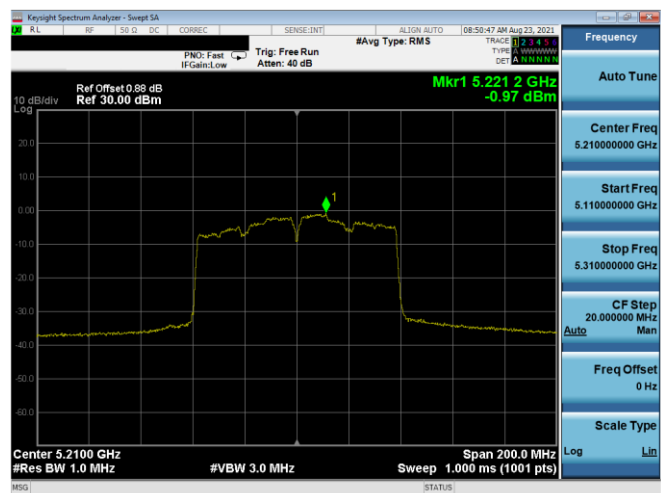
Plot 7-832. ISED PSD SDM Antenna 1b (80MHz BW 11ac – Ch.42, MCS3)



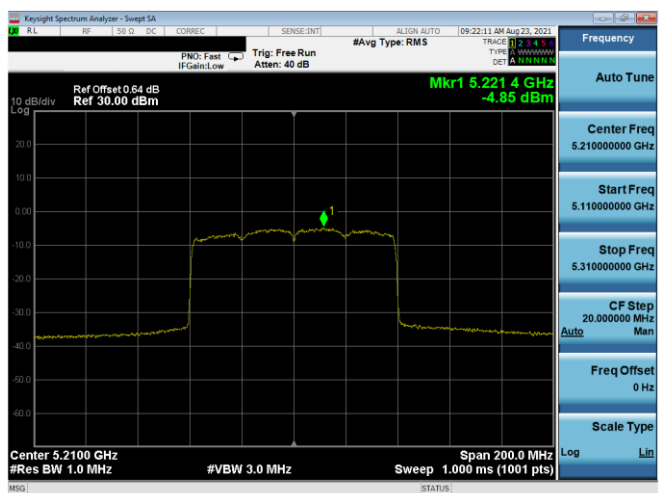
Plot 7-830. ISED PSD SDM Antenna 1b (40MHz BW 11ax(SU) – Ch.46, MCS3)



Plot 7-833. ISED PSD SDM Antenna 5T (80MHz BW 11ax (SU) – Ch.42, MCS3)

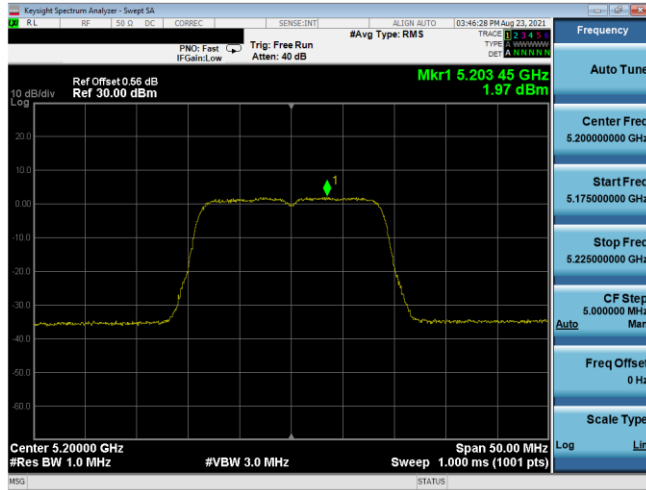


Plot 7-831. ISED PSD SDM Antenna 5T (80MHz BW 11ac – Ch.42, MCS3)

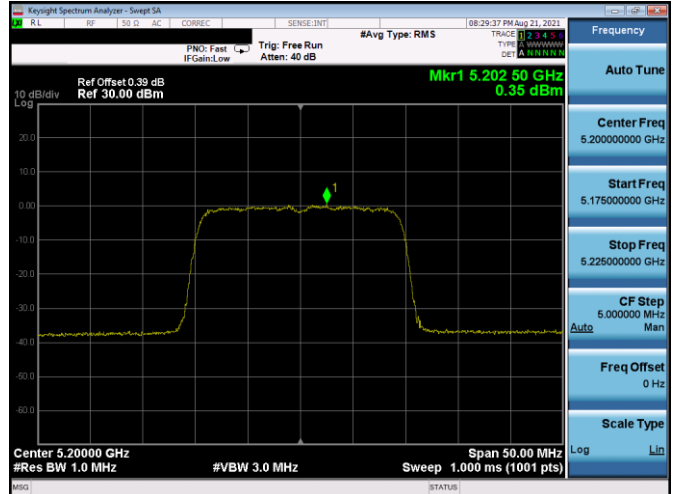


Plot 7-834. ISED PSD SDM Antenna 1b (80MHz BW 11ax (SU) – Ch.42, MCS3)

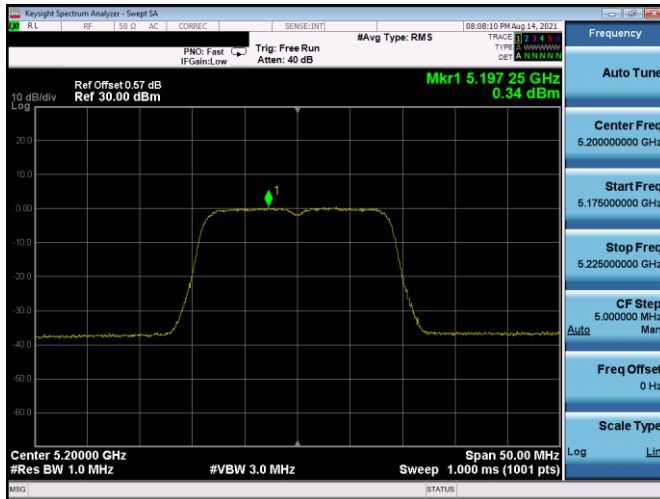
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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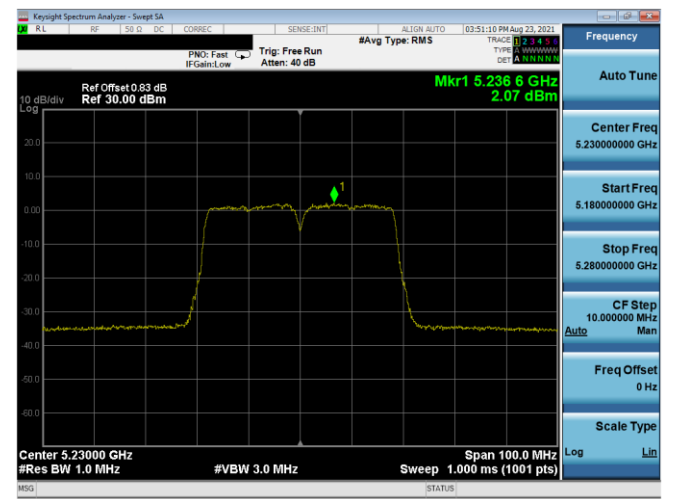
Plot 7-835. ISED PSD SDM Antenna 5T (20MHz BW 11n - Ch.40, MCS13)



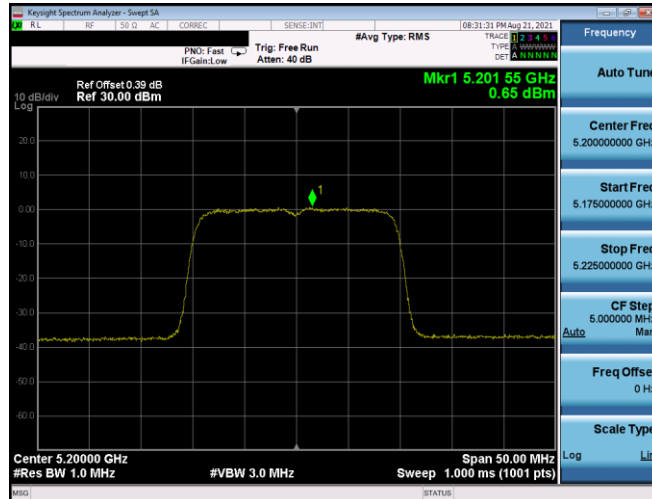
Plot 7-838. ISED PSD SDM Antenna 1b (20MHz BW 11ax(SU) - Ch.40, MCS5)



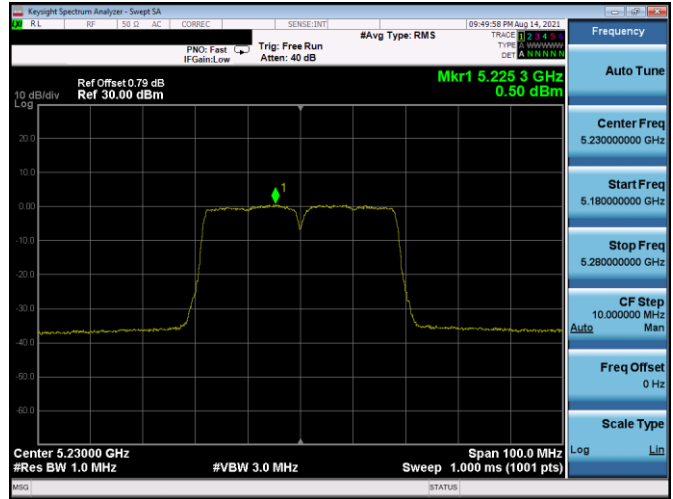
Plot 7-836. ISED PSD SDM Antenna 1b (20MHz BW 11n - Ch.40, MCS13)



Plot 7-839. ISED PSD SDM Antenna 5T (40MHz BW 11n - Ch.46, MCS13)

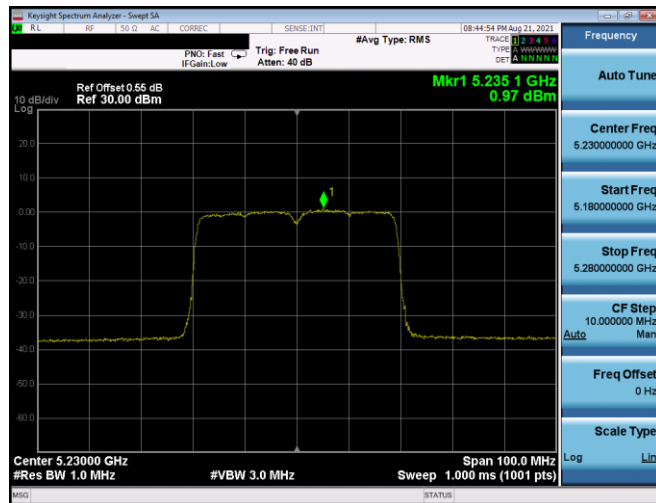


Plot 7-837. ISED PSD SDM Antenna 5T (20MHz BW 11ax(SU) - Ch.40, MCS5)

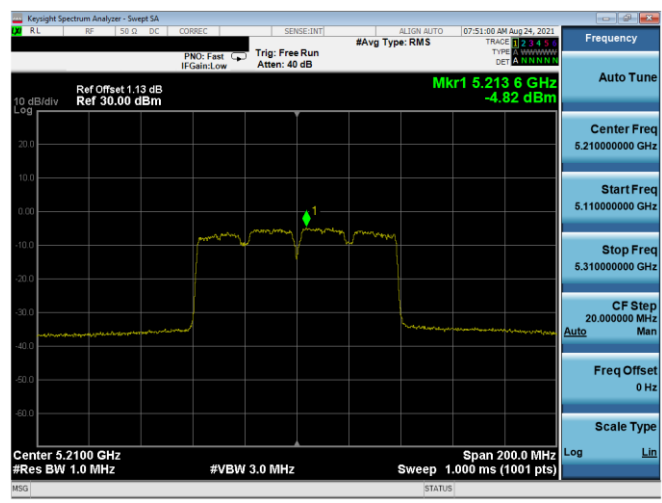


Plot 7-840. ISED PSD SDM Antenna 1b (40MHz BW 11n - Ch.46, MCS13)

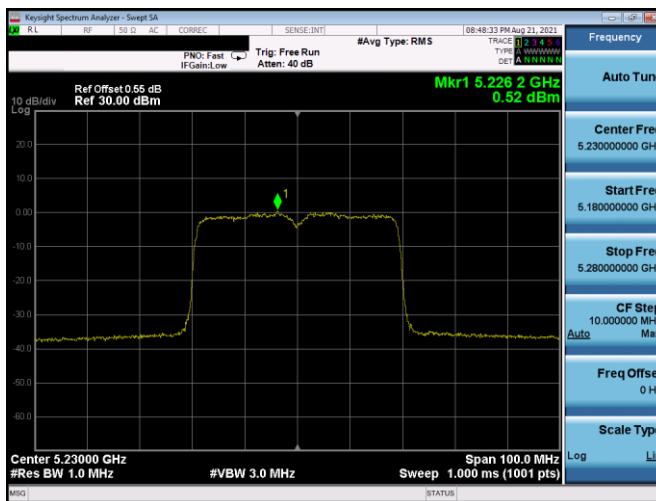
FCC ID: BCGA2568 IC: 579C-A2568		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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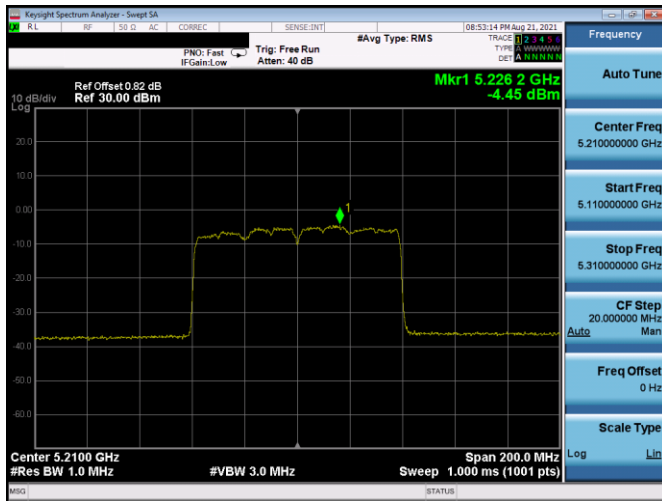
Plot 7-841. ISED PSD SDM Antenna 5T (40MHz BW 11ax(SU) – Ch.46, MCS5)



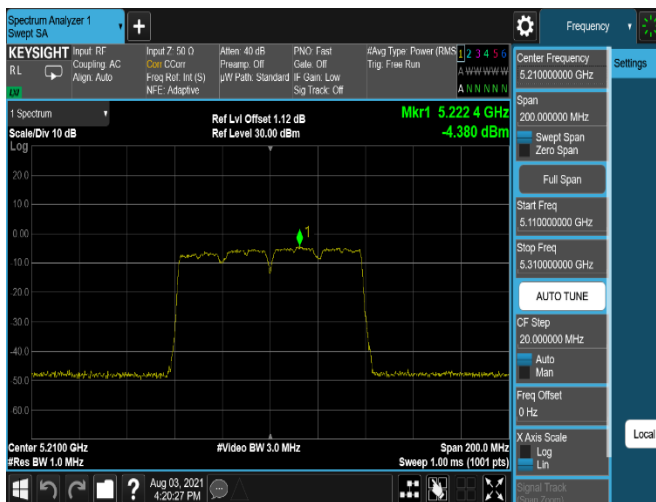
Plot 7-844. ISED PSD SDM Antenna 1b (80MHz BW 11ac – Ch.42, MCS5)



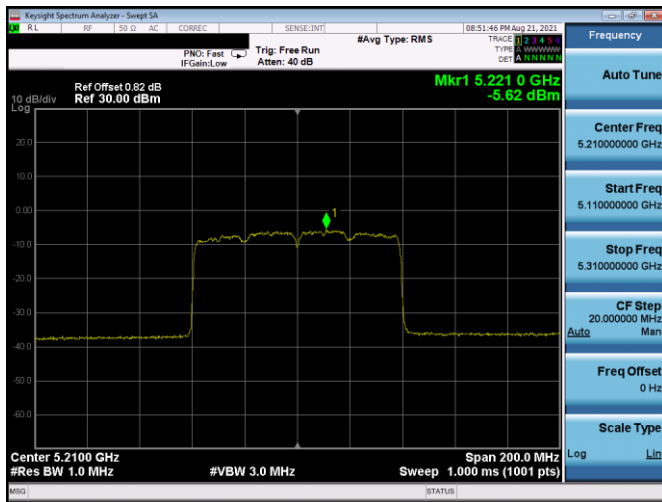
Plot 7-842. ISED PSD SDM Antenna 1b (40MHz BW 11ax(SU) – Ch.46, MCS5)



Plot 7-845. ISED PSD SDM Antenna 5T (80MHz BW 11ax(SU) – Ch.42, MCS5)



Plot 7-843. ISED PSD SDM Antenna 5T (80MHz BW 11ac – Ch.42, MCS5)



Plot 7-846. ISED PSD SDM Antenna 1b (80MHz BW 11ax(SU) – Ch.42, MCS5)

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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 5T and Antenna 3b 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 2.7 dBi for Antenna 5T and 3.4 dBi for Antenna 3b.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/20} + 10^{0.6/20} / 2] \text{ dBi} \\ &= 6.07 \text{ dBi}\end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 2.7 dBi for Antenna 5T and 3.4 dBi for Antenna 3b.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/10} + 10^{0.6/10} / 2] \text{ dBi} \\ &= 3.06 \text{ dBi}\end{aligned}$$

Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 1.64 dBm for Antenna 3b and 1.23 dBm for Antenna 3b.

$$\text{Antenna 5T} + \text{Antenna 3b} = \text{CDD/SDM}$$

$$(1.64 \text{ dBm} + 1.23 \text{ dBm}) = (1.46 \text{ mW} + 1.33 \text{ mW}) = 2.79 \text{ mW} = 4.45 \text{ dBm}$$

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 7.28 dBm with directional gain of 6.07 dBi.

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

$$4.45 \text{ dBm} + 3.06 \text{ dBi} = 7.52 \text{ dBm}$$

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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 7-203 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-203. 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

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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.

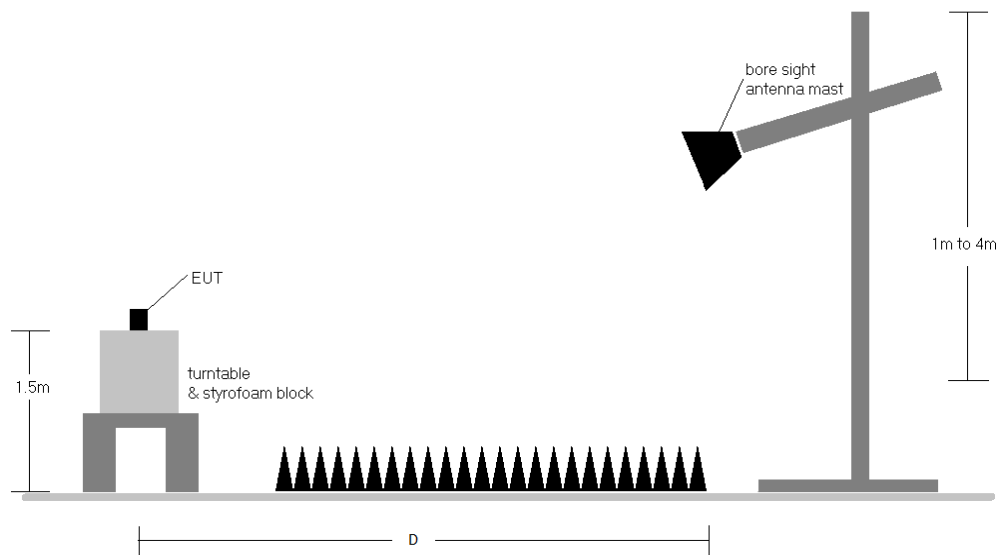


Figure 7-5. Test Instrument & Measurement Setup

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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 7-203.
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 7-203. 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 dBμV/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 68.2dBμV/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

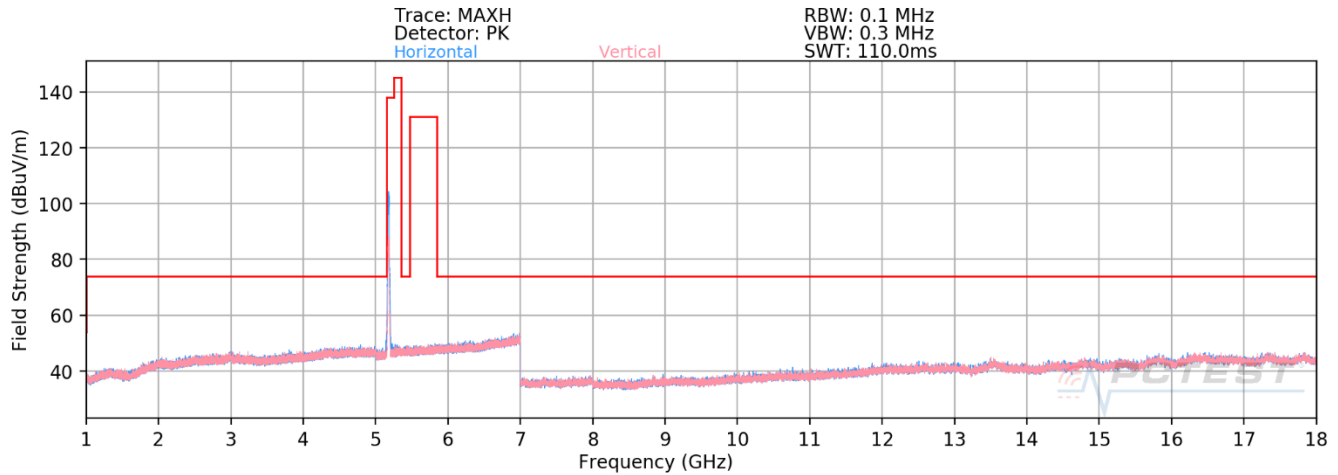
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Sections 7.6.6, 7.6.7, 7.6.8, 7.6.9, 7.6.10, 7.6.11, 7.6.15, 7.6.16 7.6.17 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.6.1 Antenna 5T Radiated Spurious Emission



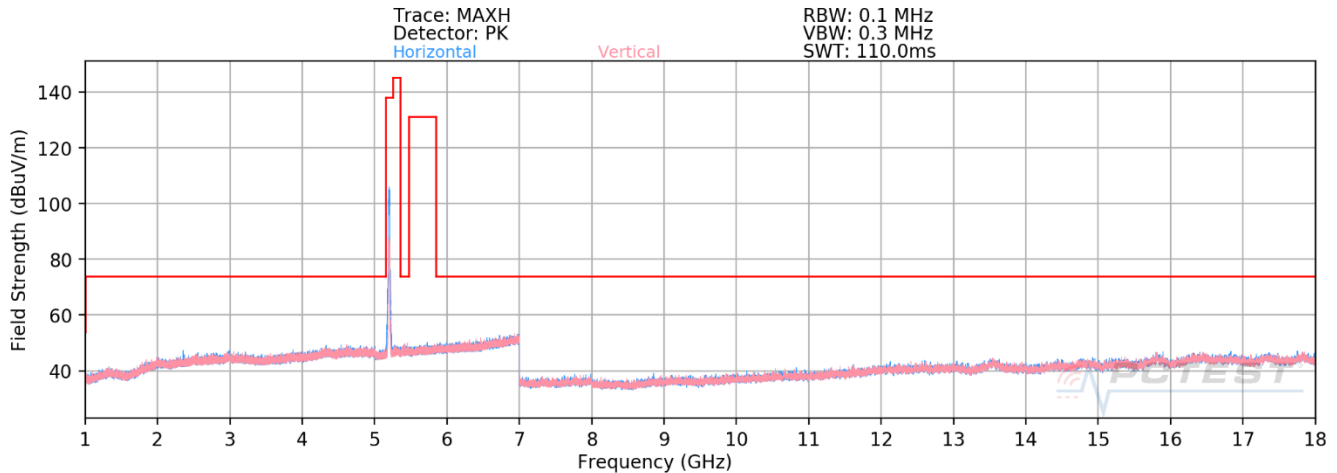
Plot 7-847. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11n – Ch. 36)

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	H	-	-	-72.42	14.40	48.98	68.20	-19.22
* 15540.00	Average	H	-	-	-85.62	20.34	41.72	53.98	-12.26
* 15540.00	Peak	H	-	-	-74.63	20.34	52.71	73.98	-21.27

Table 7-204. Radiated Measurements Antenna 5T

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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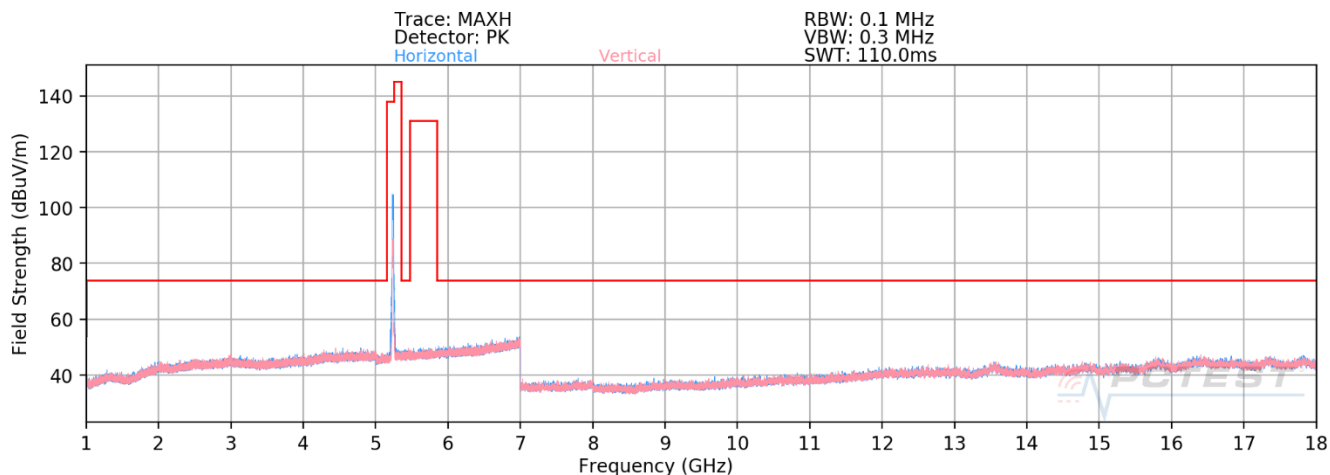
Plot 7-848. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11n – Ch. 40)

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	H	-	-	-72.58	14.59	49.01	68.20	-19.19
* 15600.00	Average	H	-	-	-85.43	20.54	42.11	53.98	-11.87
* 15600.00	Peak	H	-	-	-74.24	20.54	53.30	73.98	-20.68

Table 7-205. Radiated Measurements Antenna 5T

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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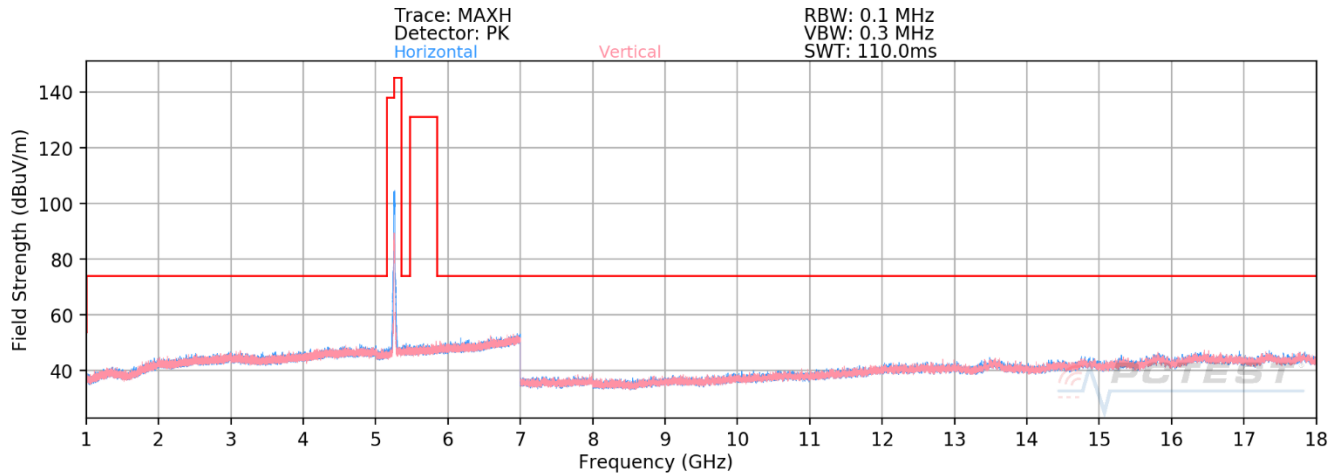
Plot 7-849. Radiated Spurious Emissions above 1GHz Antenna 5T (802.11n – Ch. 48)

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	H	-	-	-72.40	14.57	49.17	68.20	-19.03
* 15720.00	Average	H	-	-	-86.06	21.58	42.52	53.98	-11.46
* 15720.00	Peak	H	-	-	-74.54	21.58	54.04	73.98	-19.94

Table 7-206. Radiated Measurements Antenna 5T

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-850. Radiated Spurious Emissions above 1GHz Antenna 5T (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	H	-	-	-71.99	14.74	49.75	68.20	-18.45
* 15780.00	Average	H	-	-	-86.29	21.84	42.55	53.98	-11.43
* 15780.00	Peak	H	-	-	-75.08	21.84	53.76	73.98	-20.22

Table 7-207. Radiated Measurements Antenna 5T

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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