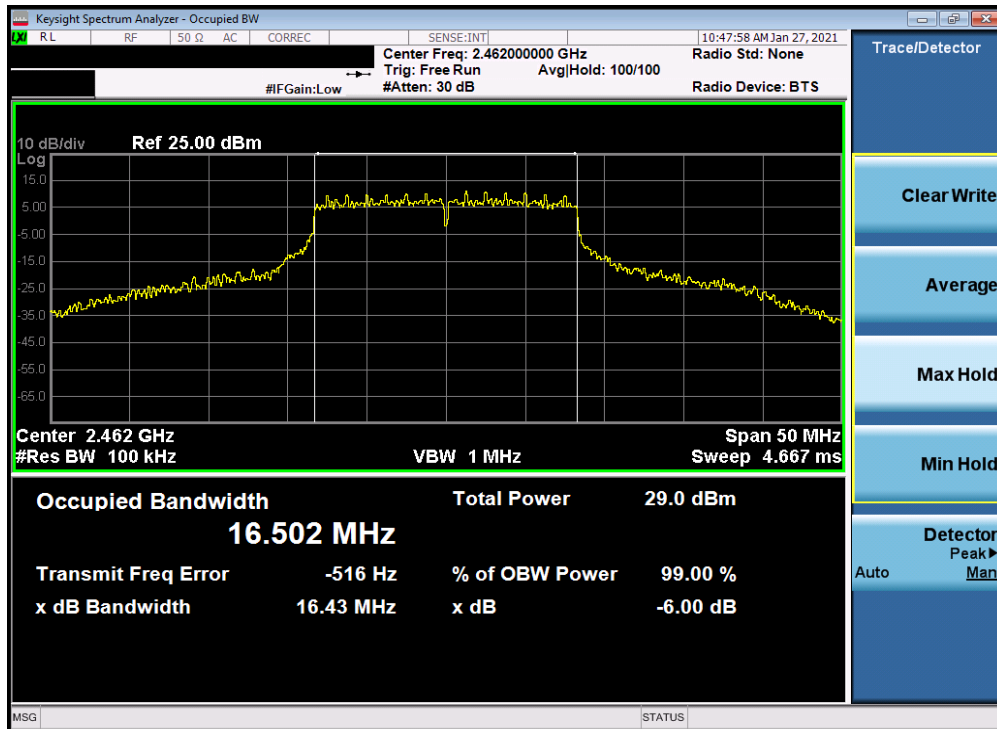
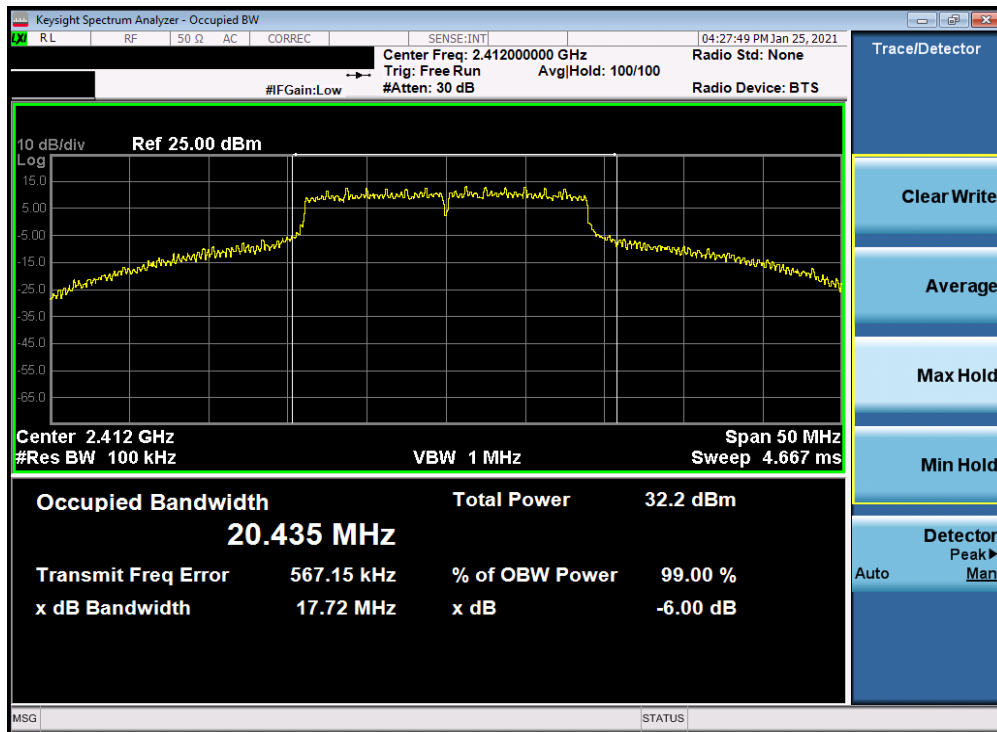


Plot 7-23. 6dB Bandwidth Plot Antenna 4a (802.11g – Ch. 6) – 54Mbps

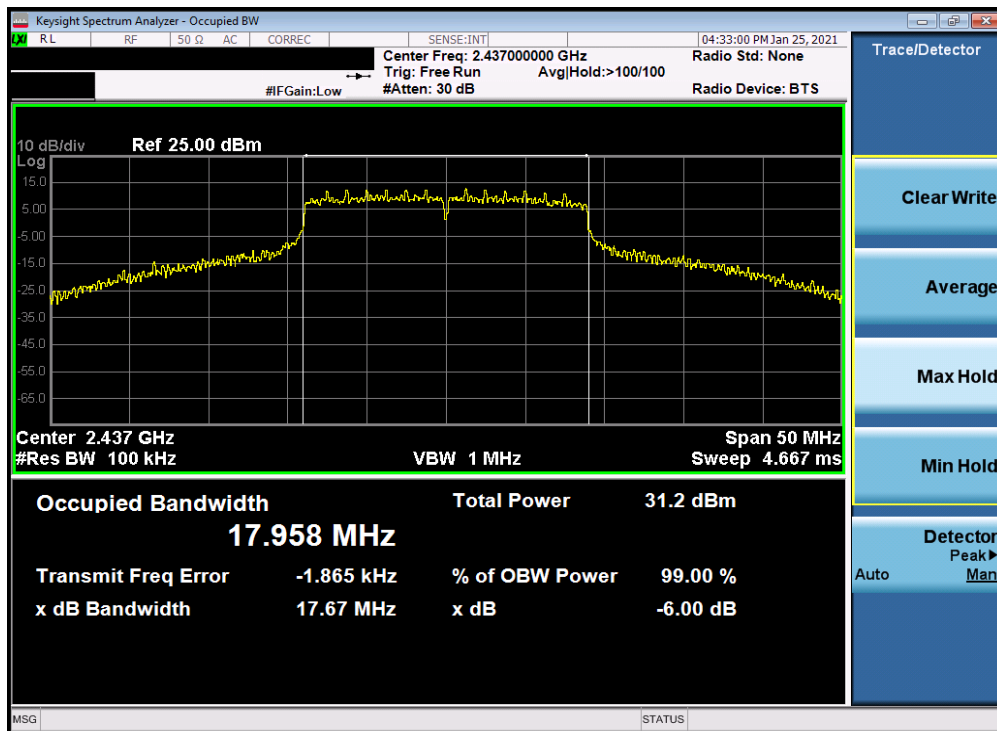


Plot 7-24. 6dB Bandwidth Plot Antenna 4a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 29 of 315

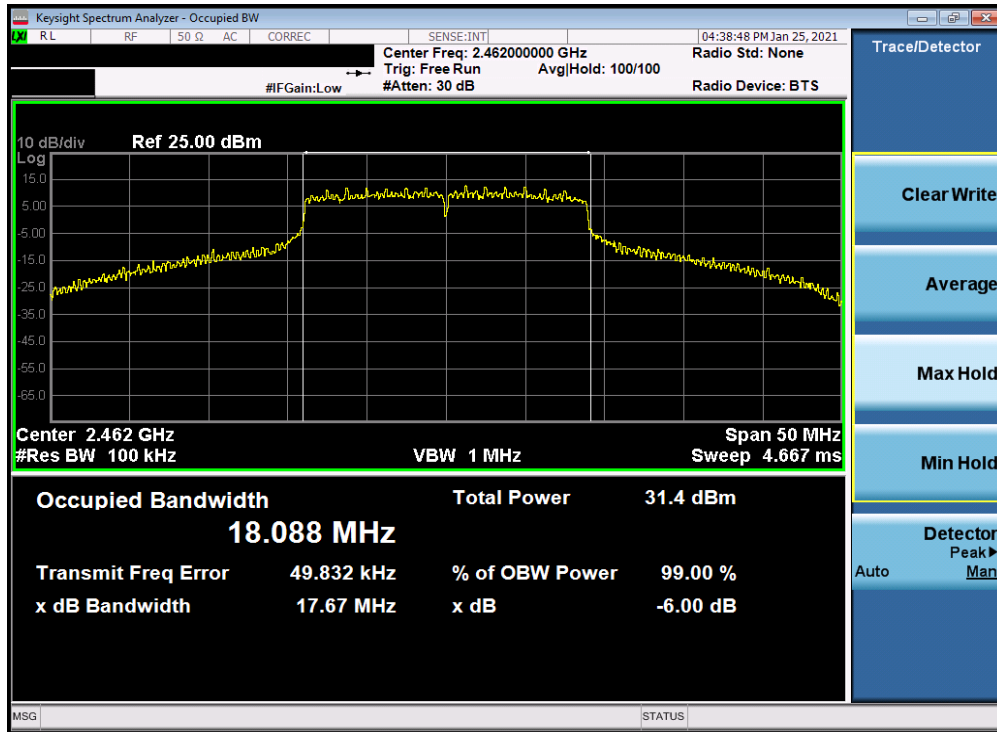


Plot 7-25. 6dB Bandwidth Plot Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS7

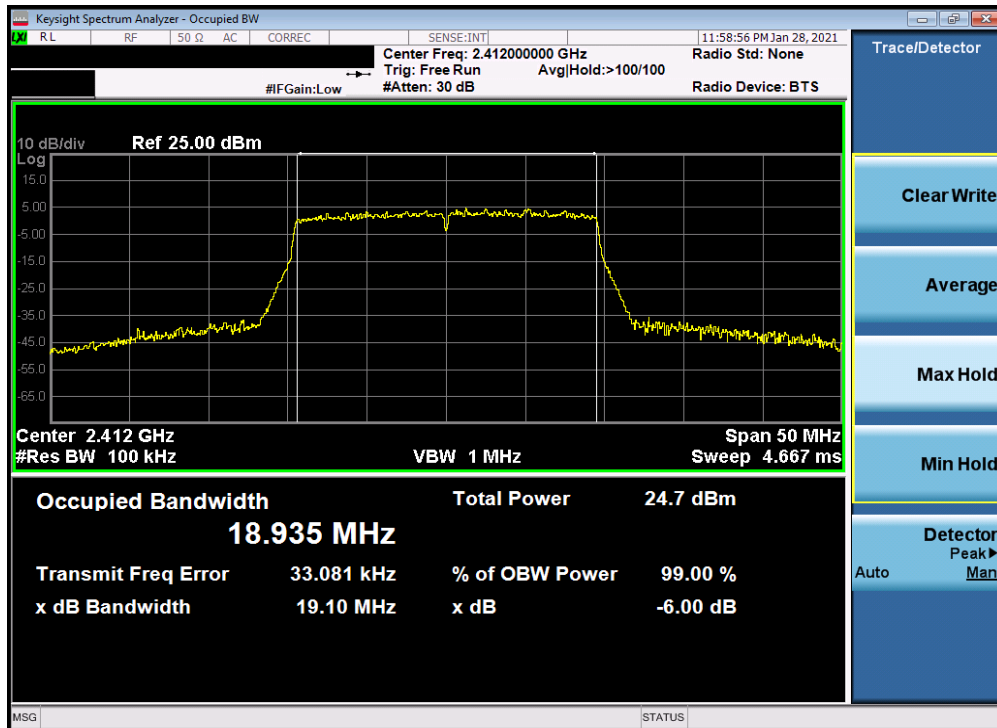


Plot 7-26. 6dB Bandwidth Plot Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 30 of 315

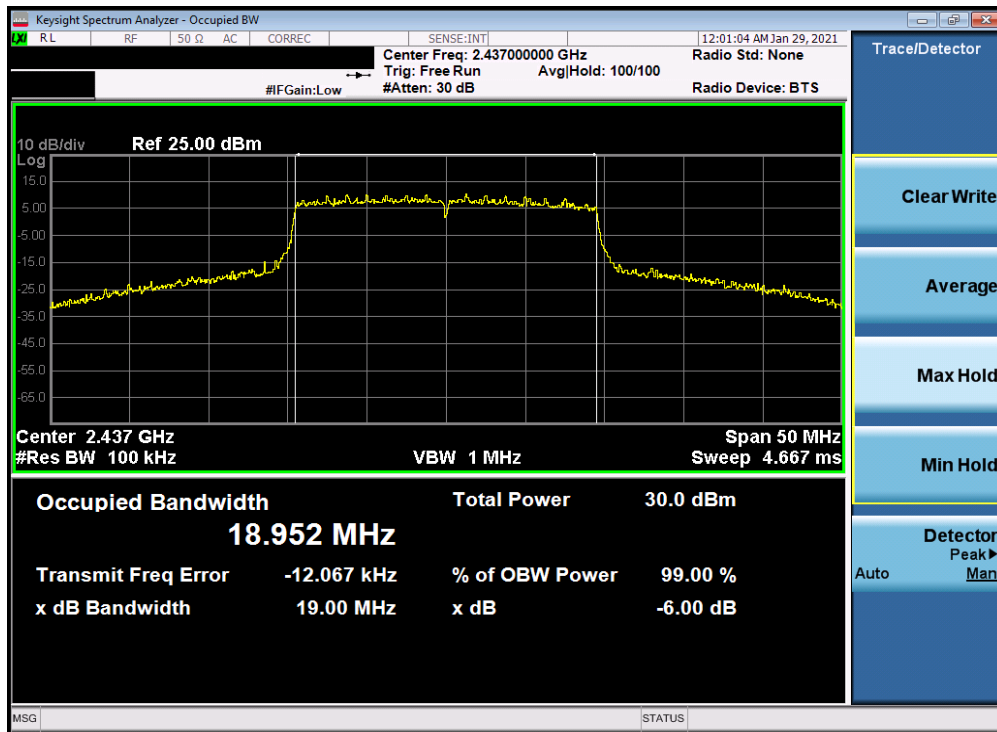


Plot 7-27. 6dB Bandwidth Plot Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS7

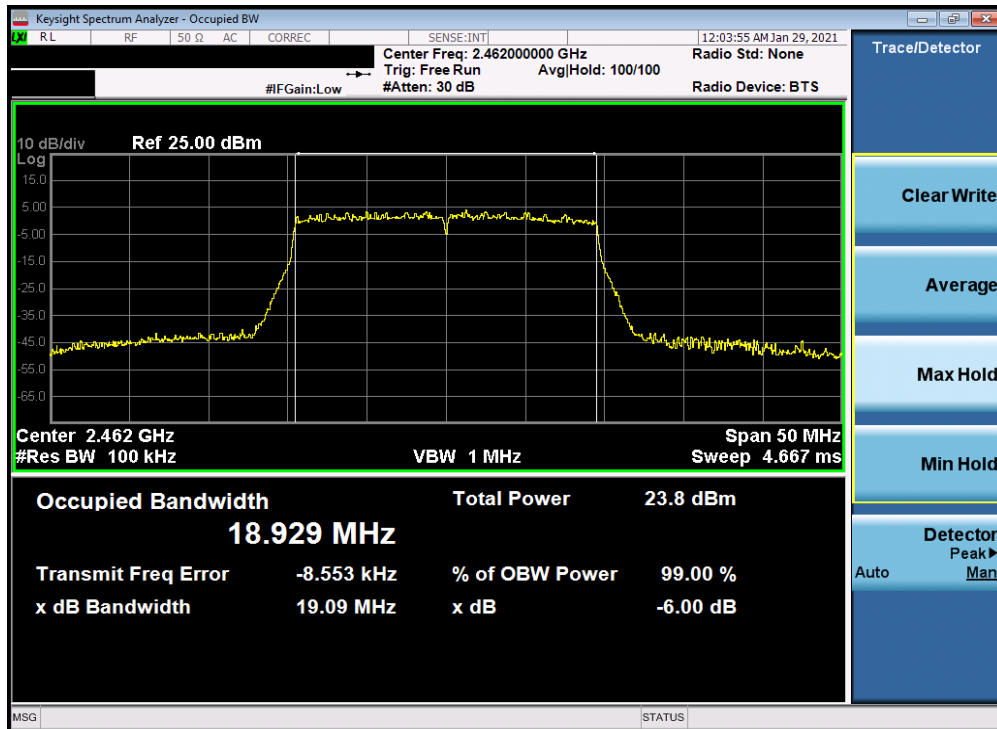


Plot 7-28. 6dB Bandwidth Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 31 of 315



Plot 7-29. 6dB Bandwidth Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-30. 6dB Bandwidth Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 32 of 315

Antenna 2a 6 dB Bandwidth Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	6	16.628	15.810	0.500	Pass
2437	6	g	6	16.458	15.790	0.500	Pass
2462	11	g	6	16.589	15.810	0.500	Pass
2412	1	n	6.5/7.2 (MCS0)	17.700	16.680	0.500	Pass
2437	6	n	6.5/7.2 (MCS0)	17.623	17.080	0.500	Pass
2462	11	n	6.5/7.2 (MCS0)	17.749	17.330	0.500	Pass
2412	1	ax-SU	8/8.6 (MCS0)	18.896	18.360	0.500	Pass
2437	6	ax-SU	8/8.6 (MCS0)	18.917	18.730	0.500	Pass
2462	11	ax-SU	8/8.6 (MCS0)	18.921	18.650	0.500	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna 2a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	18	16.518	15.540	0.500	Pass
2437	6	g	18	16.432	15.770	0.500	Pass
2462	11	g	18	16.504	15.790	0.500	Pass
2412	1	n	26/28.9 (MCS3)	17.648	17.740	0.500	Pass
2437	6	n	26/28.9 (MCS3)	17.607	17.680	0.500	Pass
2462	11	n	26/28.9 (MCS3)	17.633	17.720	0.500	Pass
2412	1	ax-SU	33/34.4 (MCS3)	18.888	18.870	0.500	Pass
2437	6	ax-SU	33/34.4 (MCS3)	19.018	18.500	0.500	Pass
2462	11	ax-SU	33/34.4 (MCS3)	18.920	19.050	0.500	Pass

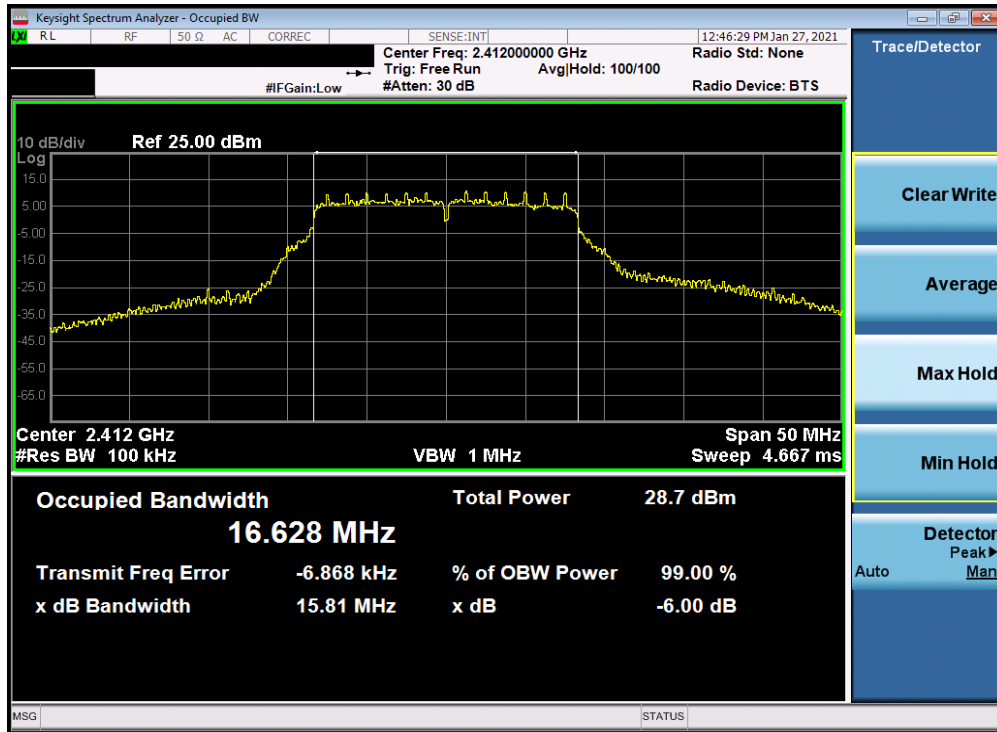
Table 7-6. Conducted Bandwidth Measurements Antenna 2a (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 33 of 315

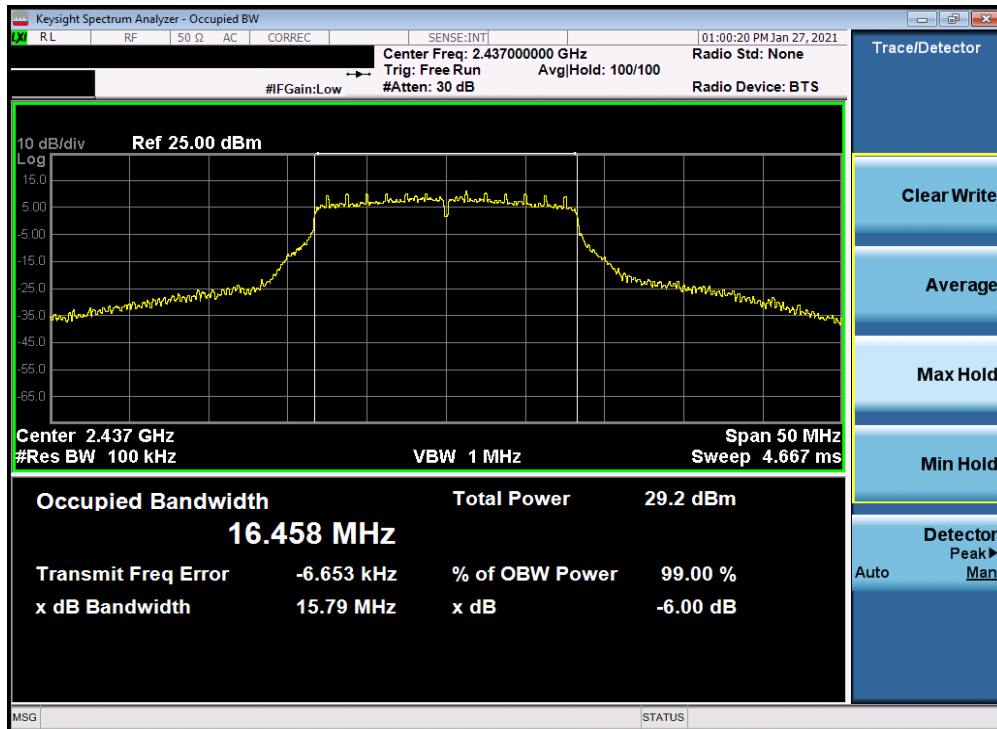
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	11	12.735	8.880	0.500	Pass
2437	6	b	11	12.691	8.260	0.500	Pass
2462	11	b	11	12.720	9.180	0.500	Pass
2412	1	g	54	16.523	16.460	0.500	Pass
2437	6	g	54	16.498	16.440	0.500	Pass
2462	11	g	54	16.536	16.460	0.500	Pass
2412	1	n	65/72.2 (MCS7)	17.660	17.730	0.500	Pass
2437	6	n	65/72.2 (MCS7)	17.718	17.720	0.500	Pass
2462	11	n	65/72.2 (MCS7)	17.677	17.760	0.500	Pass
2412	1	ax-SU	65/68.8 (MCS5)	18.910	19.010	0.500	Pass
2437	6	ax-SU	65/68.8 (MCS5)	18.923	19.070	0.500	Pass
2462	11	ax-SU	65/68.8 (MCS5)	18.925	19.070	0.500	Pass

Table 7-7. Conducted Bandwidth Measurements Antenna 2a (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device
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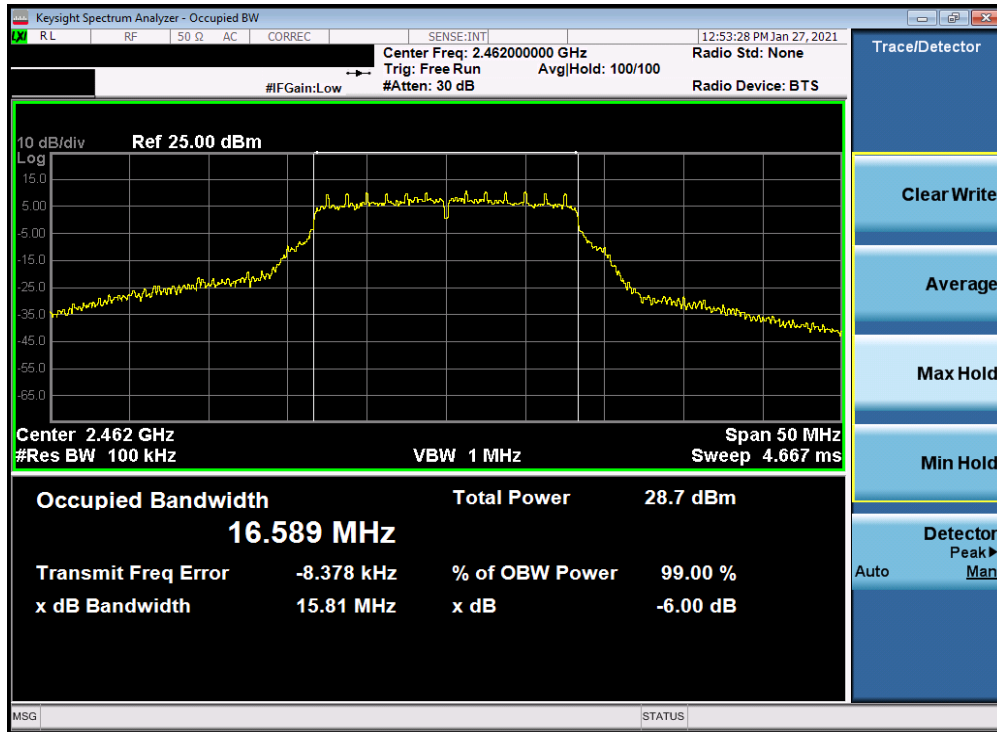


Plot 7-31. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 1) – 6Mbps

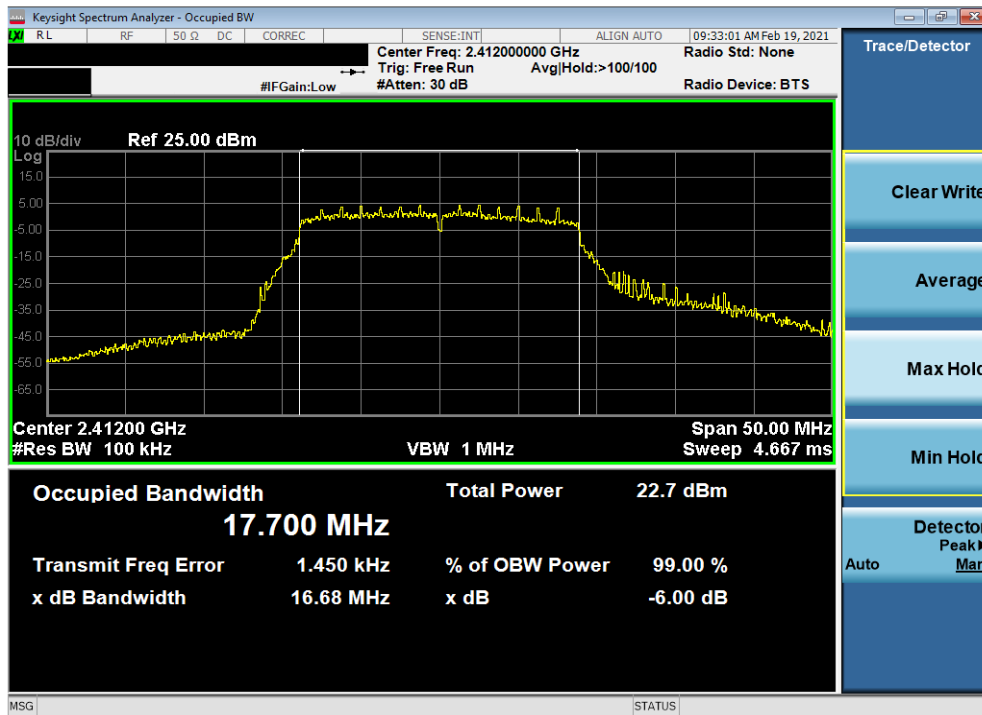


Plot 7-32. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 6) – 6Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 35 of 315

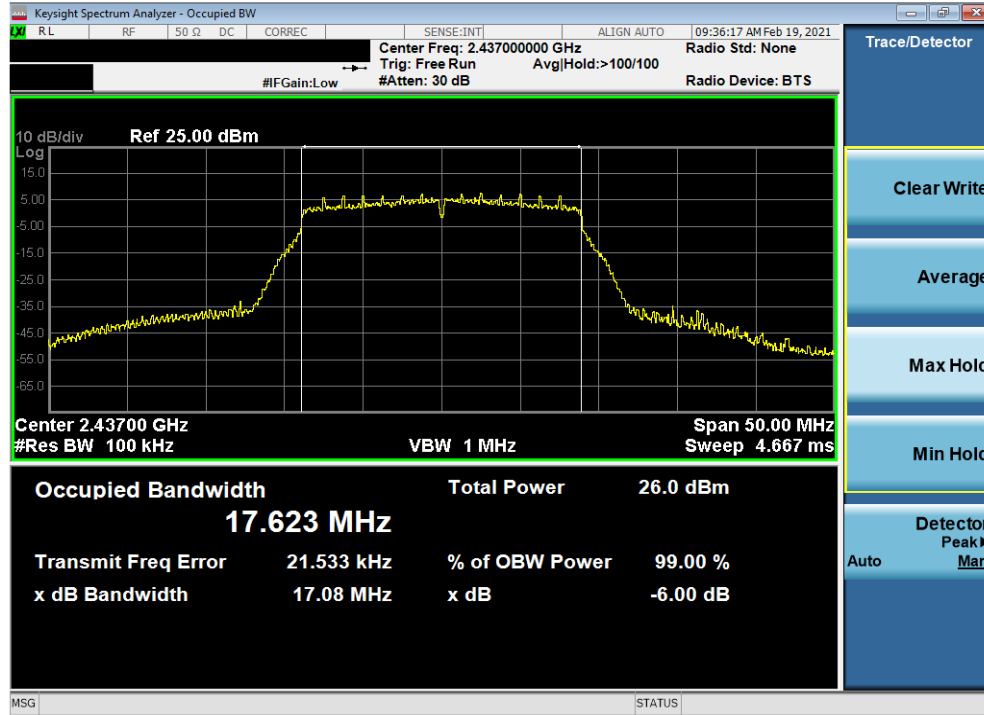


Plot 7-33. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 11) – 6Mbps

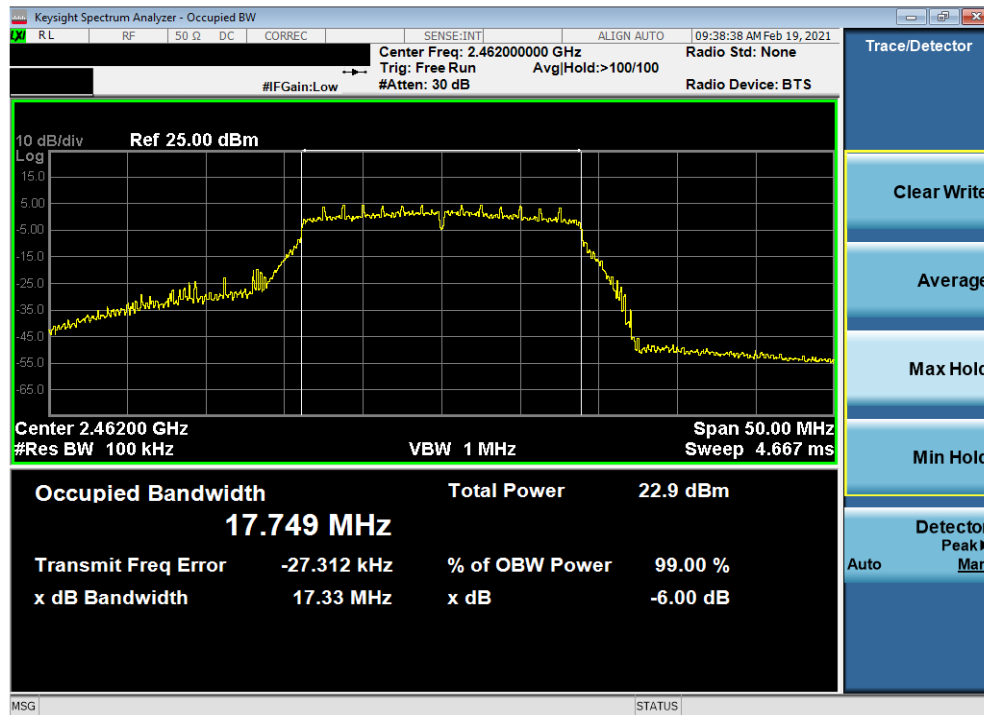


Plot 7-34. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 36 of 315

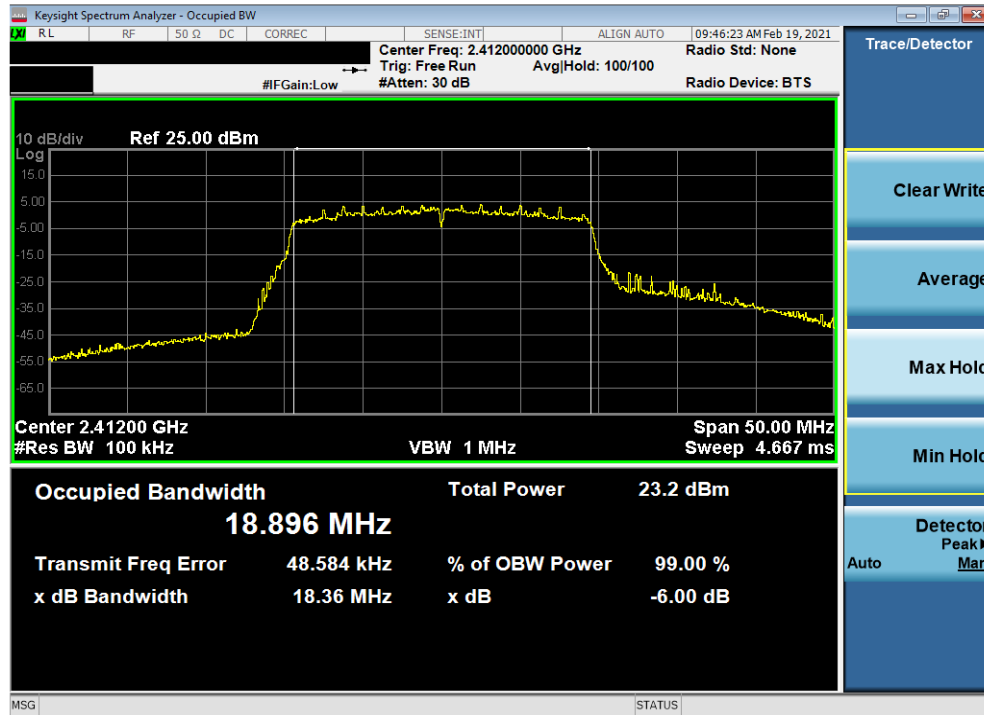


Plot 7-35. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS0

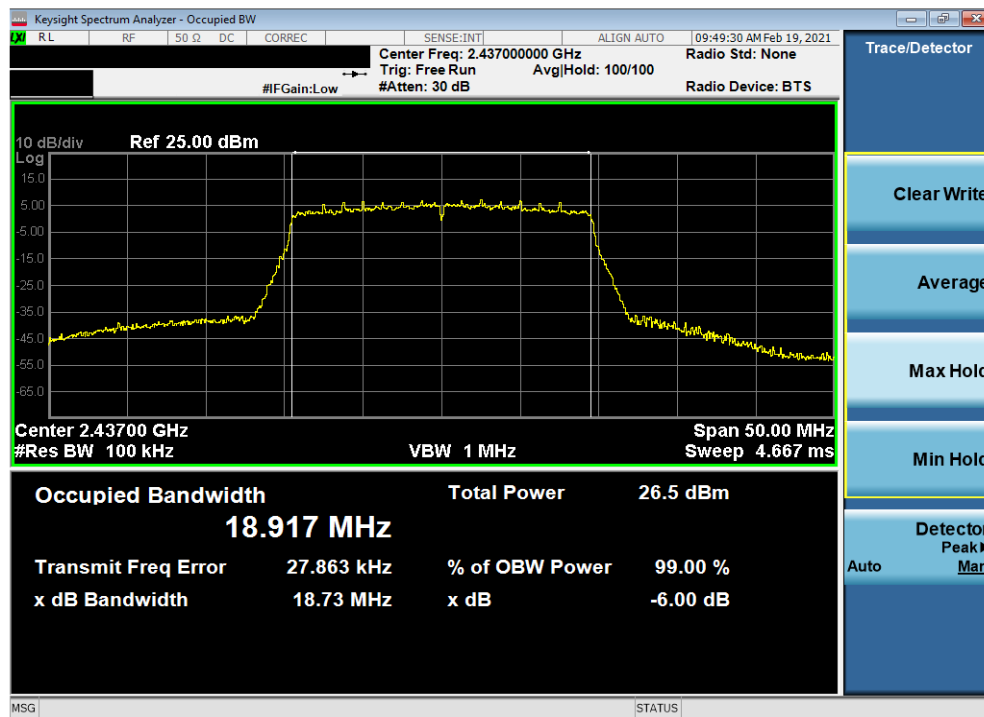


Plot 7-36. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 37 of 315

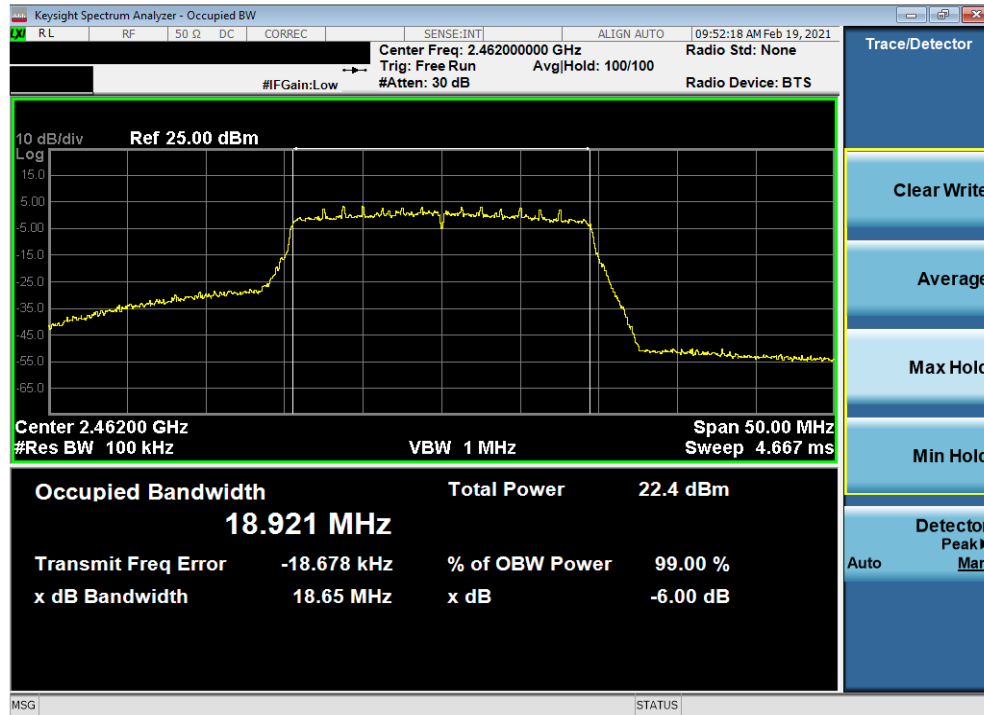


Plot 7-37. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0

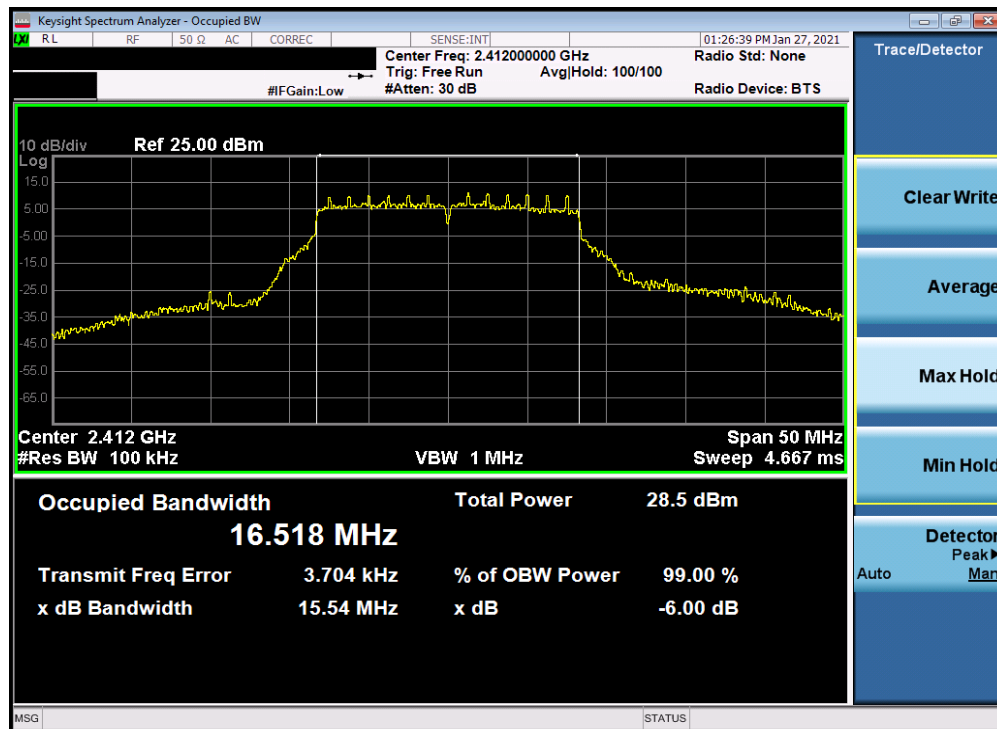


Plot 7-38. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 38 of 315

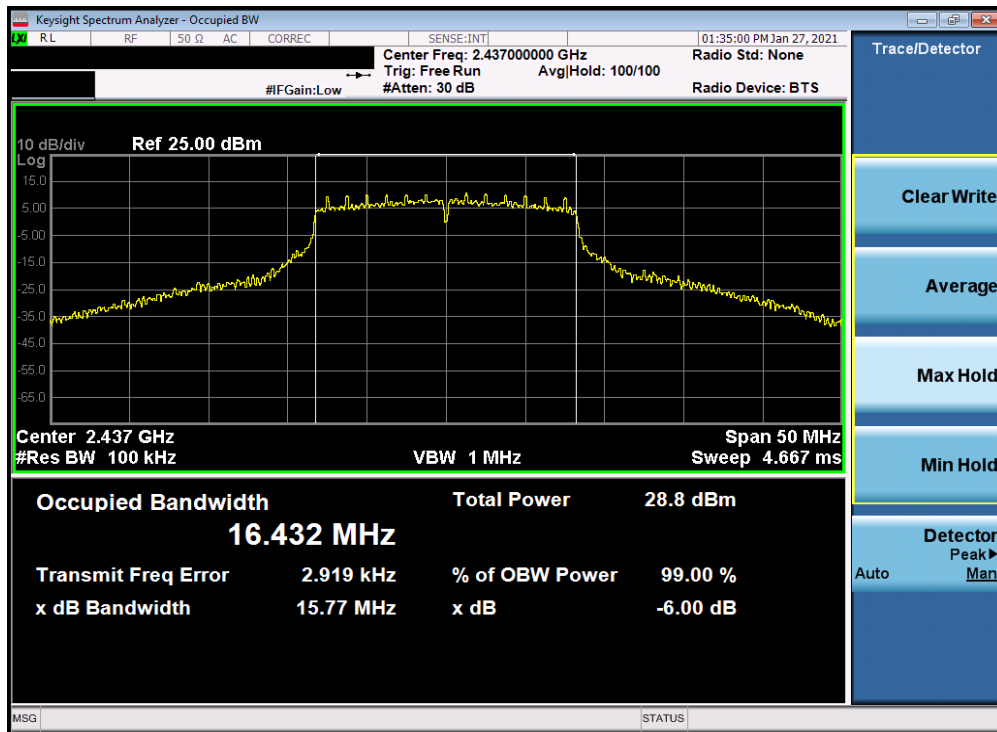


Plot 7-39. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0

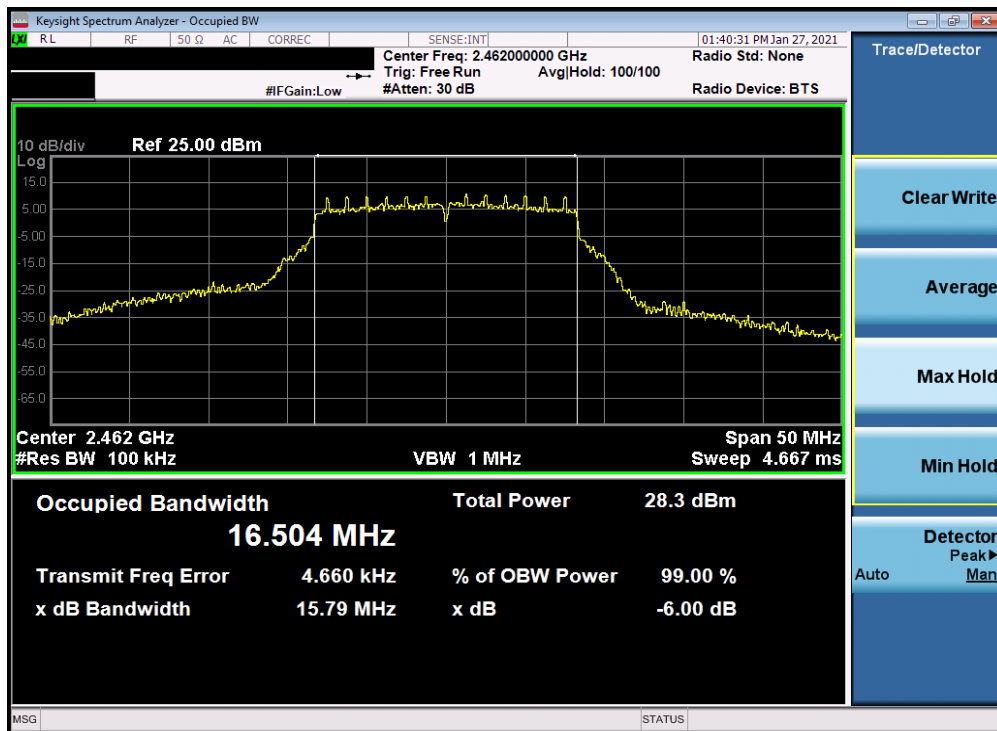


Plot 7-40. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 1) – 18Mbps

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 39 of 315

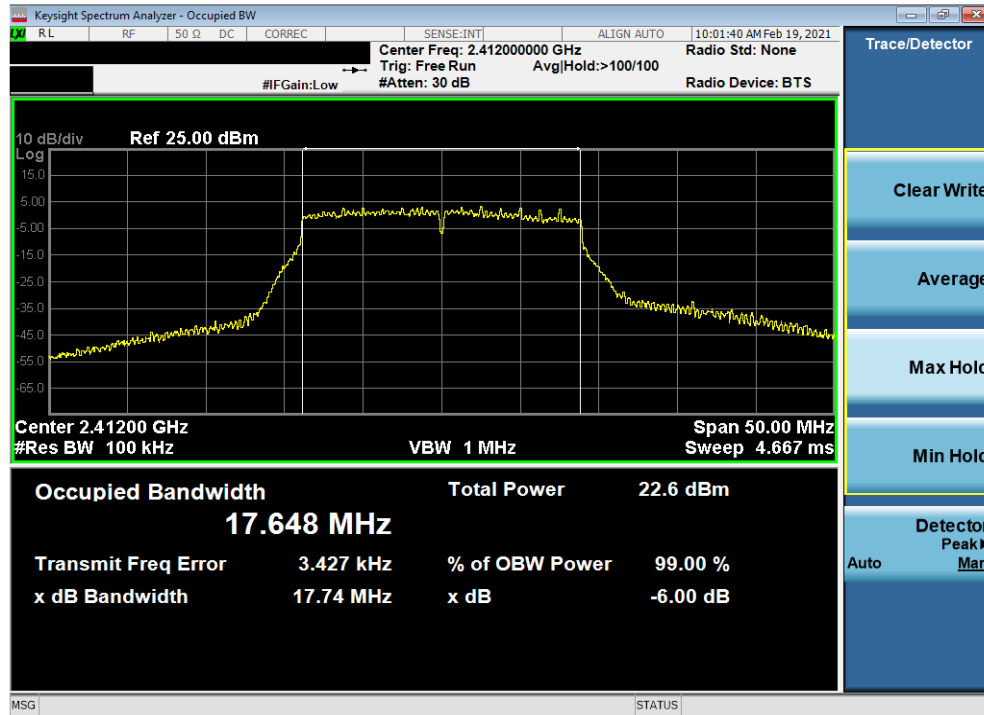


Plot 7-41. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 6) – 18Mbps

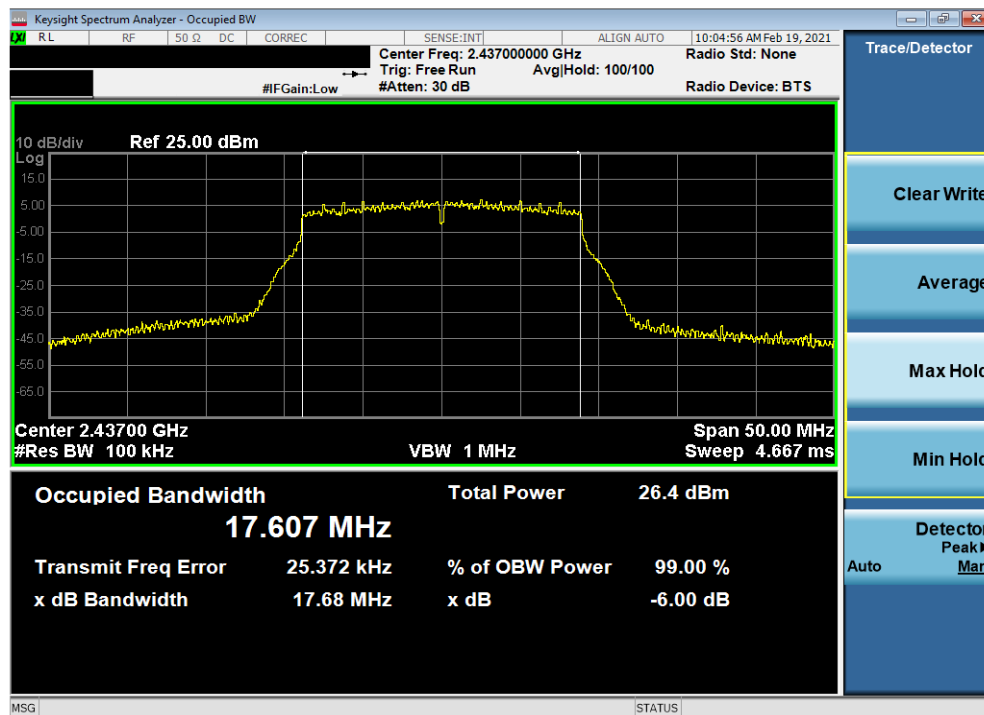


Plot 7-42. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 11) – 18Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 40 of 315

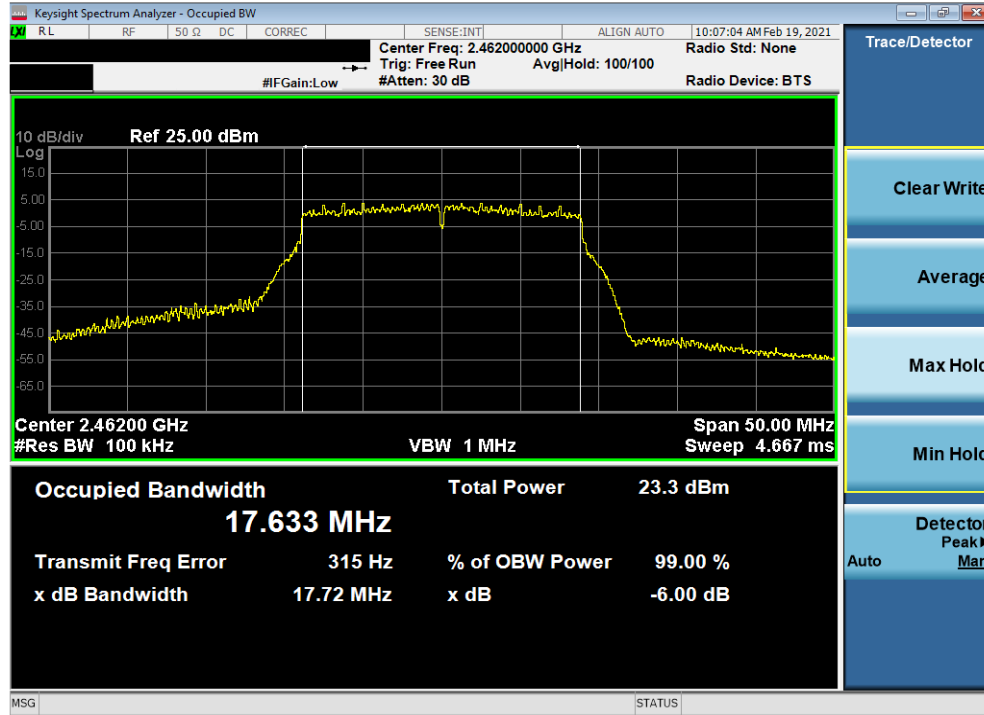


Plot 7-43. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS3

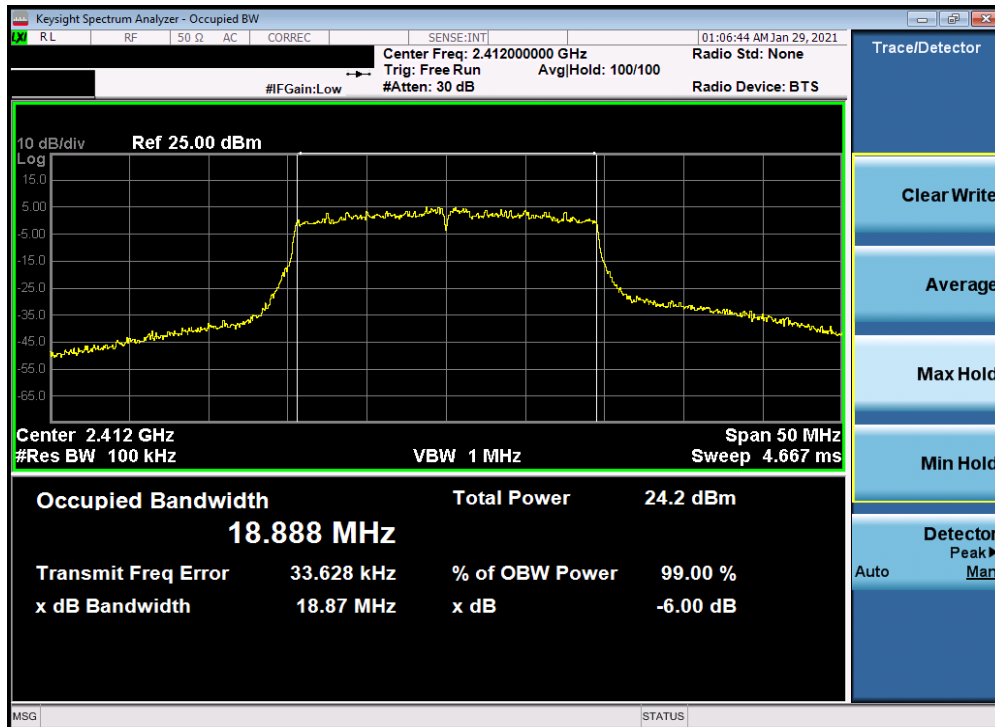


Plot 7-44. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 41 of 315

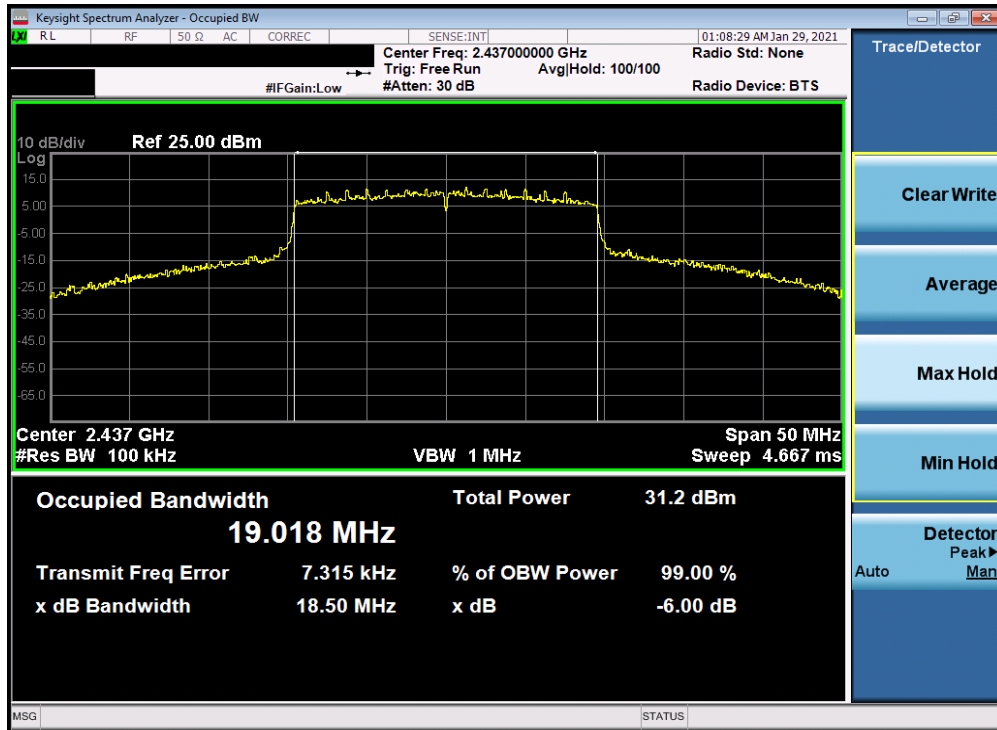


Plot 7-45. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS3

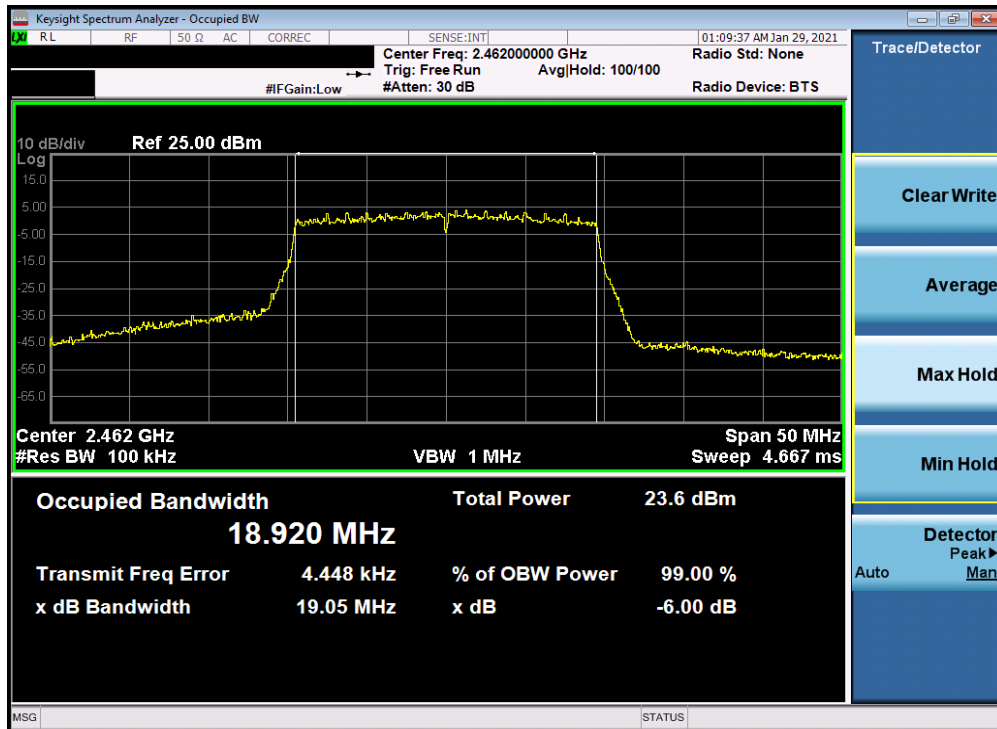


Plot 7-46. 6dB Bandwidth Plot Antenna 2a (802. 11ax (SU - 2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 42 of 315

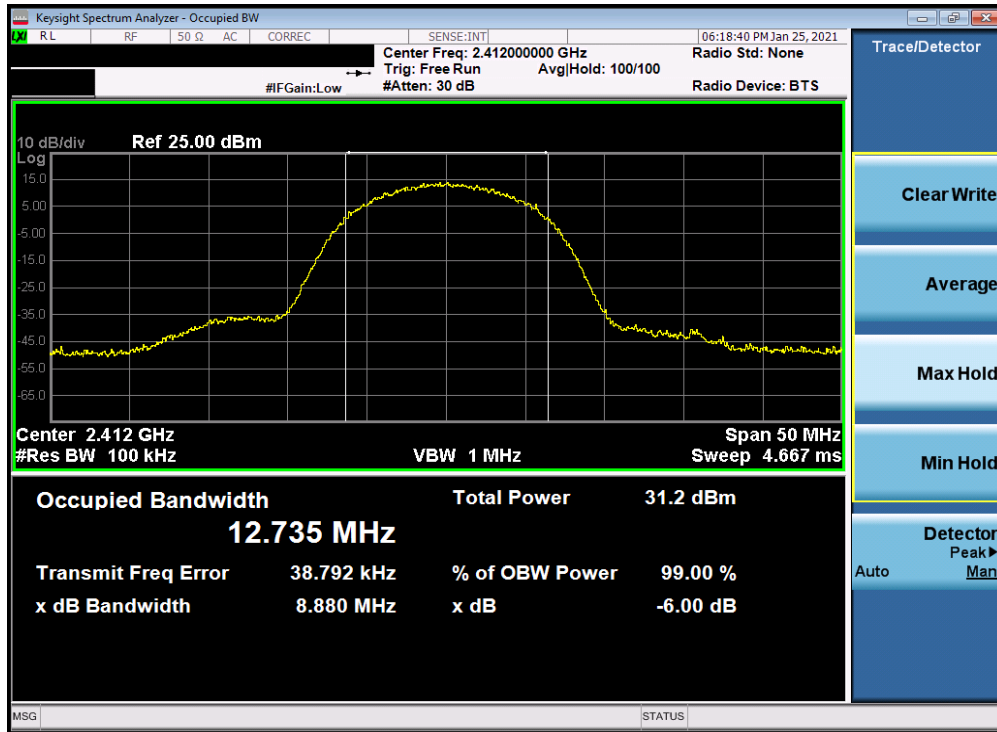


Plot 7-47. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

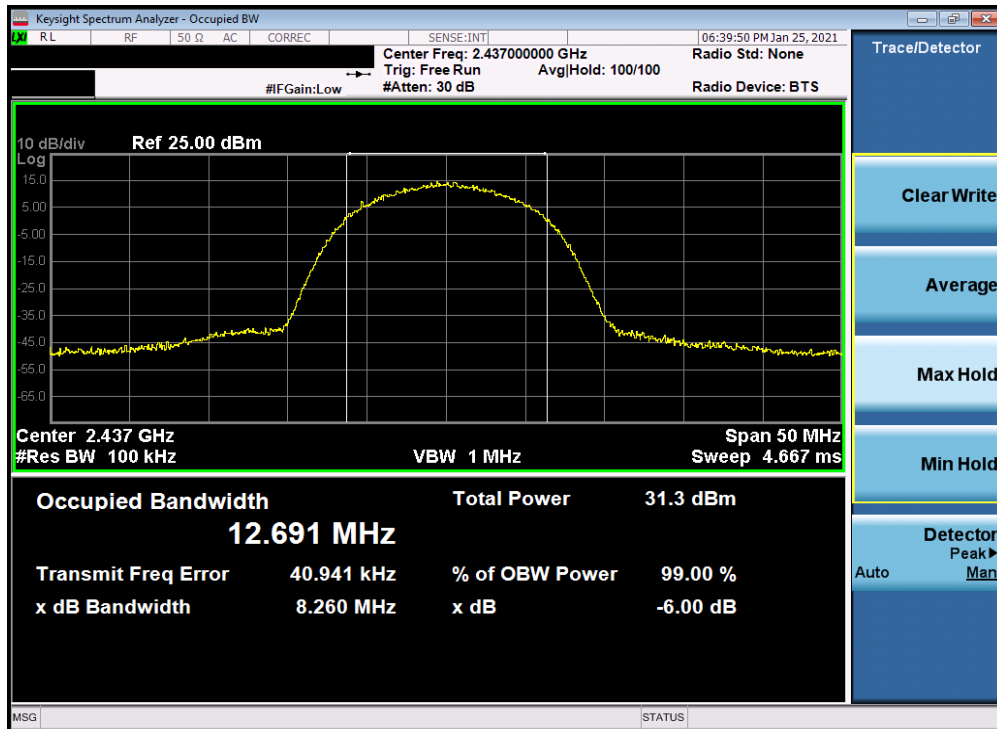


Plot 7-48. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 43 of 315

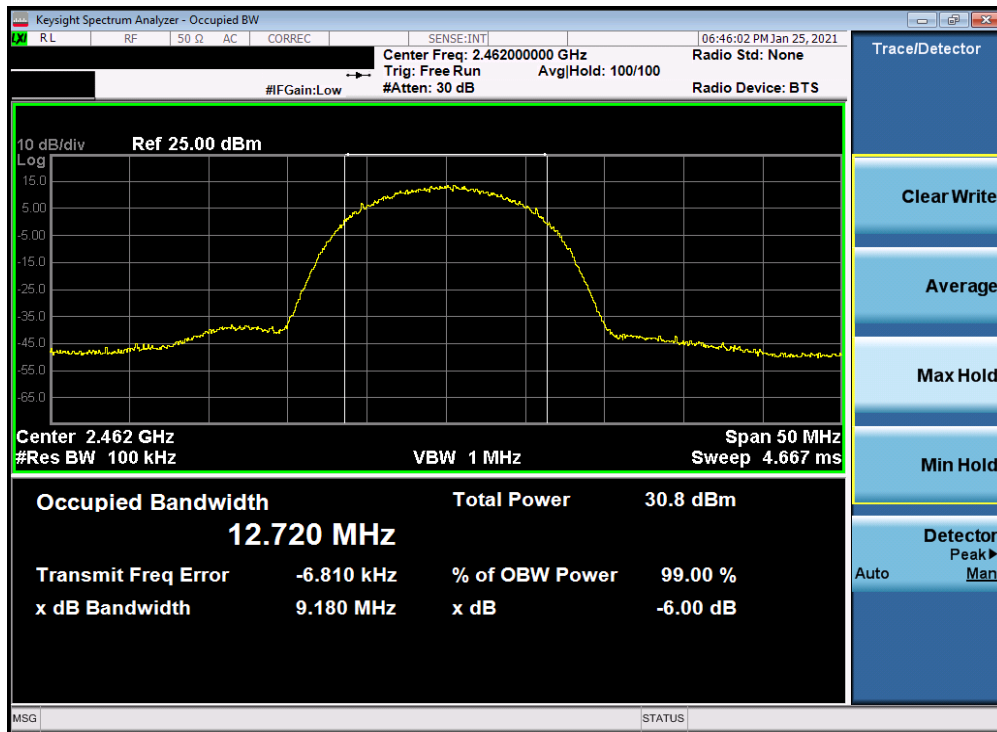


Plot 7-49. 6dB Bandwidth Plot Antenna 2a (802.11b – Ch. 1) – 11Mbps

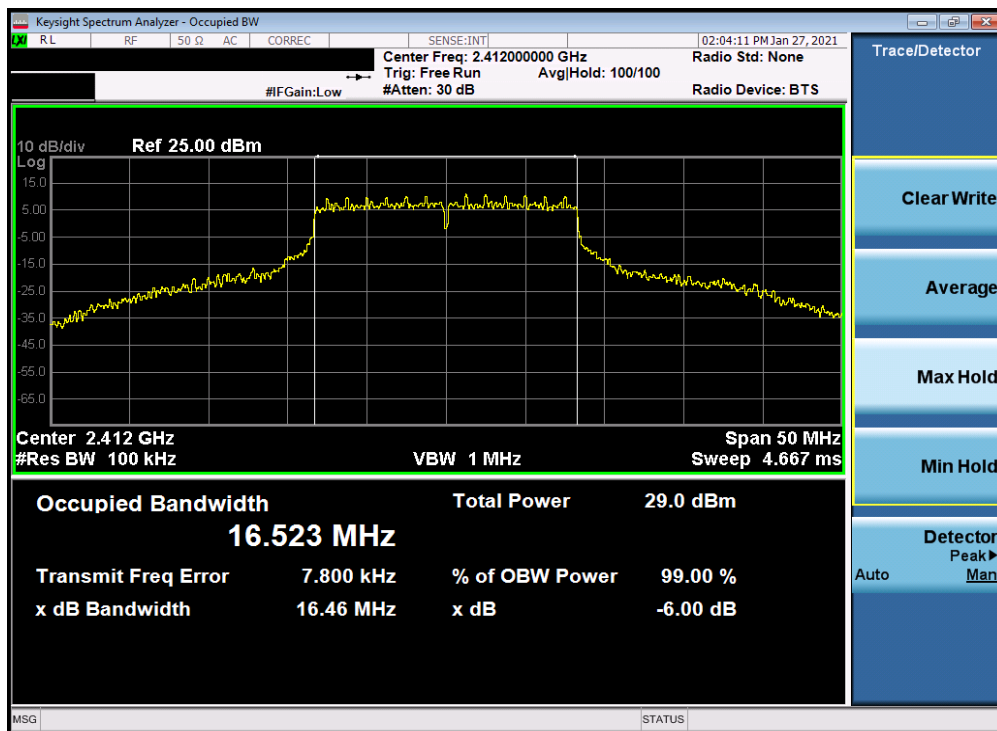


Plot 7-50. 6dB Bandwidth Plot Antenna 2a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 44 of 315

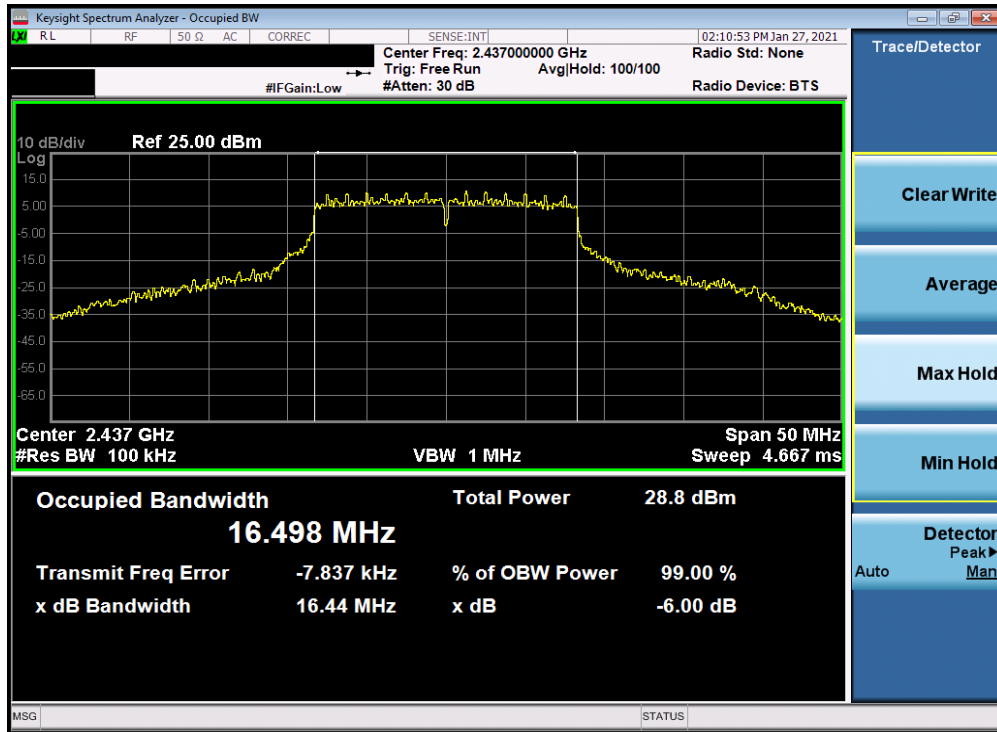


Plot 7-51. 6dB Bandwidth Plot Antenna 2a (802.11b – Ch. 11) – 11Mbps

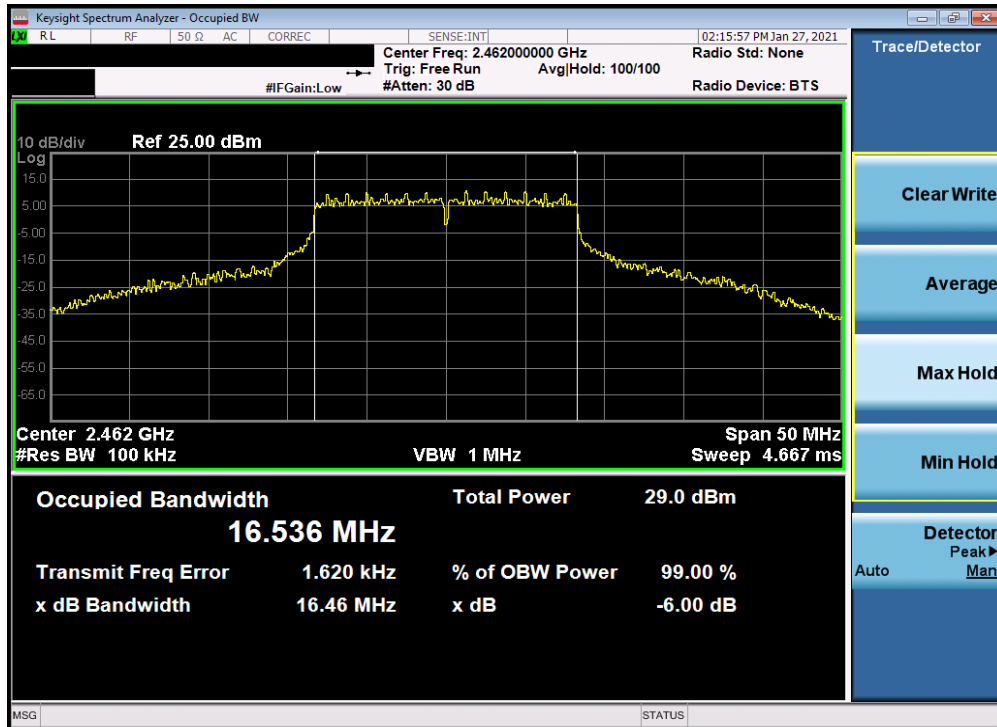


Plot 7-52. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 45 of 315

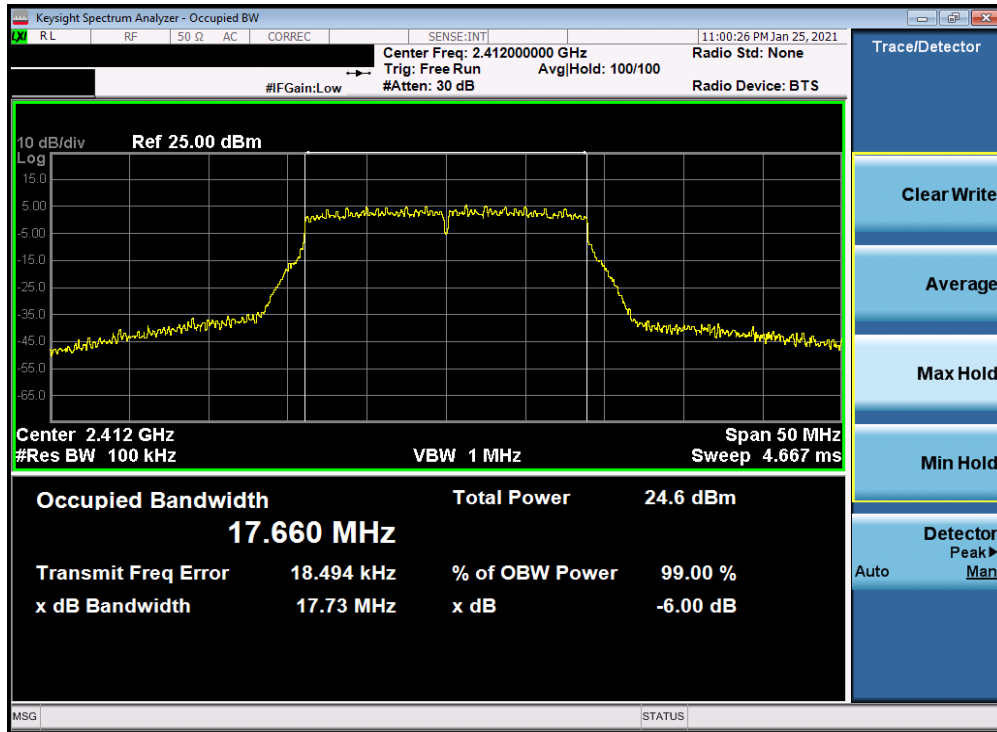


Plot 7-53. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 6) – 54Mbps

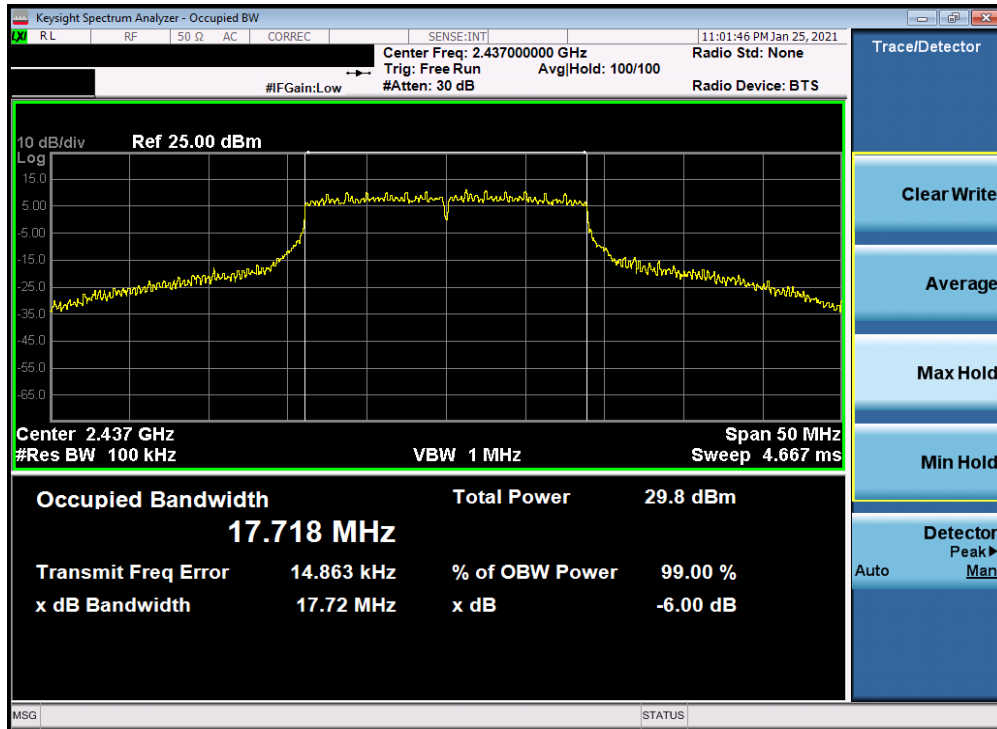


Plot 7-54. 6dB Bandwidth Plot Antenna 2a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 46 of 315

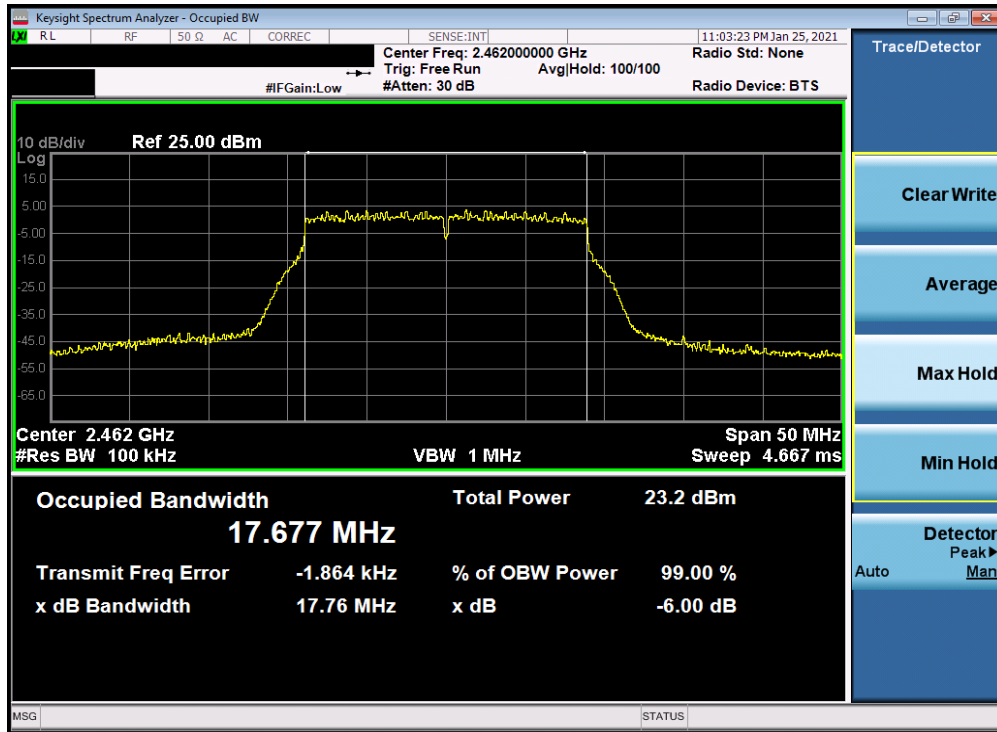


Plot 7-55. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS7

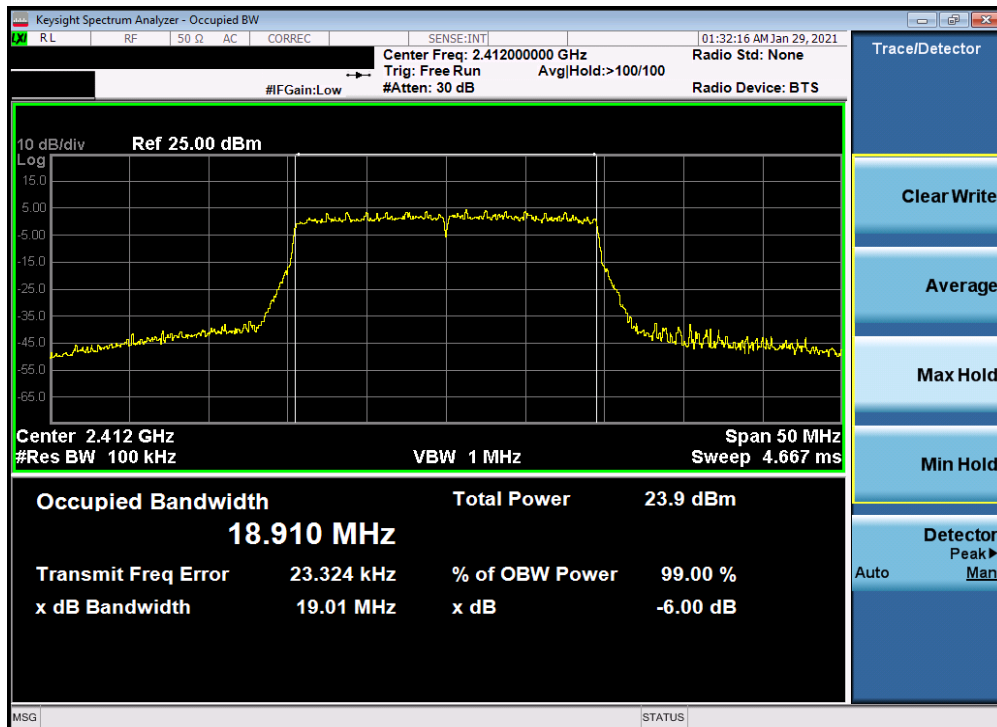


Plot 7-56. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 47 of 315

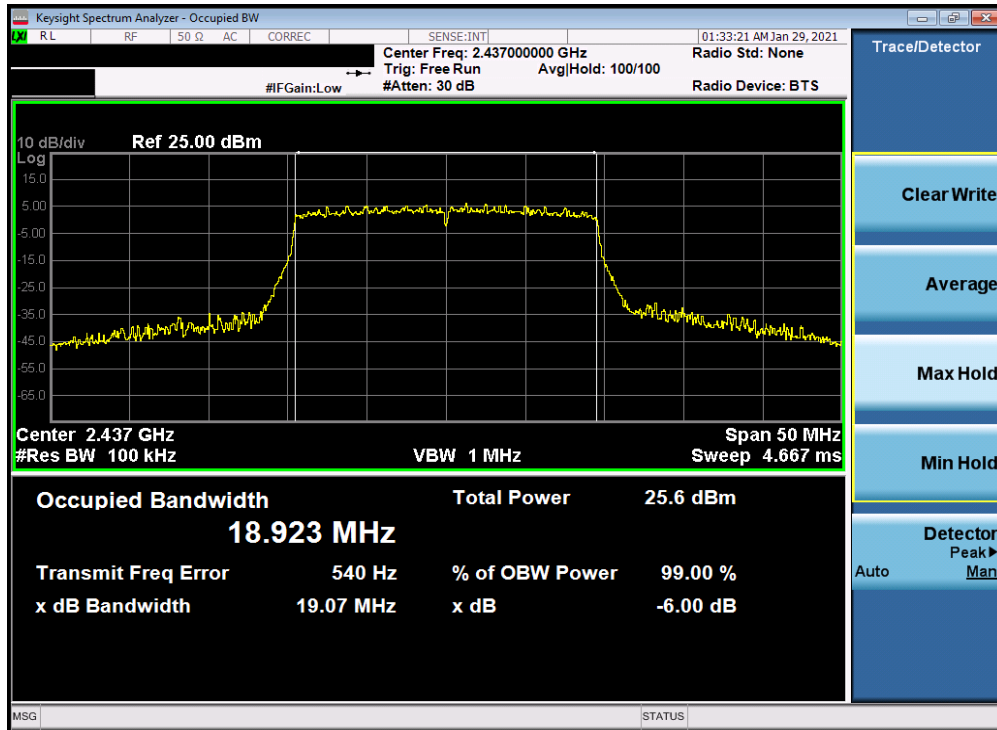


Plot 7-57. 6dB Bandwidth Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS7

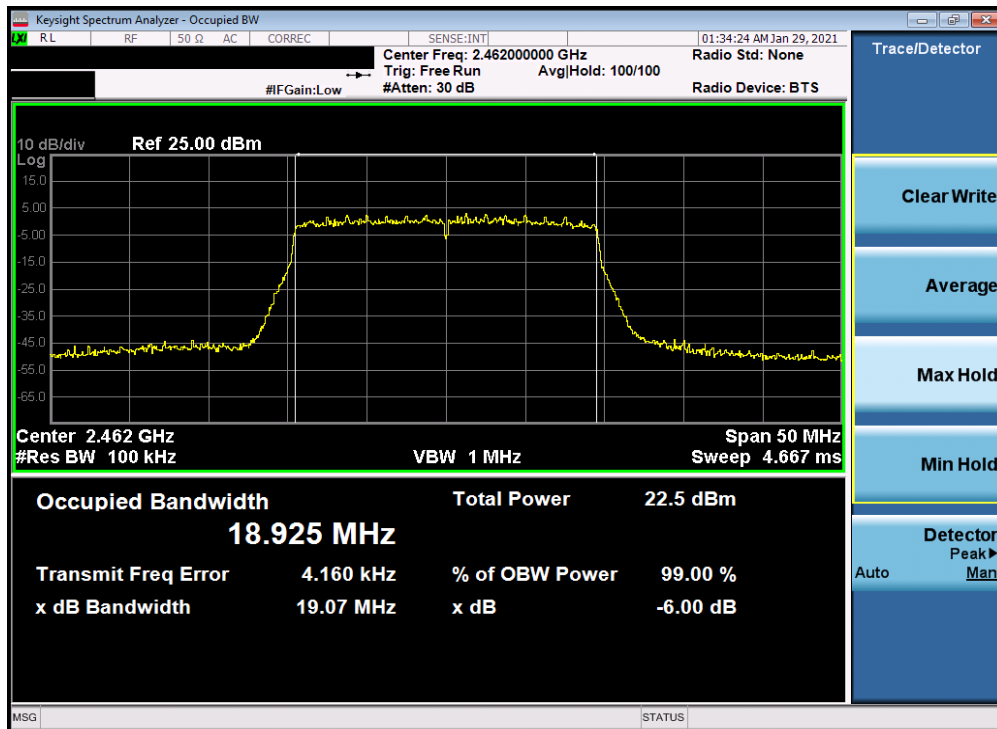


Plot 7-58. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 48 of 315



Plot 7-59. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-60. 6dB Bandwidth Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 49 of 315

7.3 Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method
KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method
ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G
KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique
KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

1. For 802.11b, the worst case data rate was found to be 11Mbps.
2. 802.11ax does not support channel 13.

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7.3.1 Average Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	15.46	15.50	15.29	30.00	-14.50	2.00	17.50	36.02	-18.52
2417	2	AVG	18.76	18.98	18.00	30.00	-11.02	2.00	20.98	36.02	-15.04
2422	3	AVG	18.98	18.84	18.99	30.00	-11.01	2.00	20.99	36.02	-15.03
2437	6	AVG	18.95	18.78	18.92	30.00	-11.05	2.00	20.95	36.02	-15.07
2452	9	AVG	19.00	18.71	18.89	30.00	-11.00	2.00	21.00	36.02	-15.02
2457	10	AVG	18.72	18.88	18.37	30.00	-11.12	2.00	20.88	36.02	-15.14
2462	11	AVG	15.97	15.90	14.96	30.00	-14.03	2.00	17.97	36.02	-18.05
2467	12	AVG	13.33	13.47	13.45	30.00	-16.53	2.00	15.47	36.02	-20.55
2472	13	AVG	10.96	10.83	--	30.00	-19.04	2.00	12.96	36.02	-23.06

Table 7-8. Average Conducted Output Power Measurements Antenna 4a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	15.32	15.32	15.36	30.00	-14.64	3.00	18.36	36.02	-17.66
2417	2	AVG	18.88	18.87	17.78	30.00	-11.12	3.00	21.88	36.02	-14.14
2422	3	AVG	19.00	18.71	18.87	30.00	-11.00	3.00	22.00	36.02	-14.02
2437	6	AVG	18.75	18.93	19.00	30.00	-11.00	3.00	22.00	36.02	-14.02
2452	9	AVG	19.00	18.79	18.82	30.00	-11.00	3.00	22.00	36.02	-14.02
2457	10	AVG	18.90	18.99	18.25	30.00	-11.01	3.00	21.99	36.02	-14.03
2462	11	AVG	15.81	15.76	14.98	30.00	-14.19	3.00	18.81	36.02	-17.21
2467	12	AVG	13.50	13.49	13.33	30.00	-16.50	3.00	16.50	36.02	-19.52
2472	13	AVG	10.99	10.73	--	30.00	-19.01	3.00	13.99	36.02	-22.03

Table 7-9. Average Conducted Output Power Measurements Antenna 2a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	14.85	14.80	17.84	30.00	-12.16	5.52	23.36	36.02	-12.66
2417	2	AVG	18.40	18.46	21.44	30.00	-8.56	5.52	26.96	36.02	-9.06
2422	3	AVG	18.45	18.44	21.46	30.00	-8.54	5.52	26.98	36.02	-9.04
2437	6	AVG	18.46	18.50	21.49	30.00	-8.51	5.52	27.01	36.02	-9.01
2452	9	AVG	18.40	18.45	21.44	30.00	-8.56	5.52	26.96	36.02	-9.06
2457	10	AVG	18.28	18.31	21.31	30.00	-8.69	5.52	26.83	36.02	-9.19
2462	11	AVG	15.33	15.41	18.38	30.00	-11.62	5.52	23.90	36.02	-12.12
2467	12	AVG	12.37	12.43	15.41	30.00	-14.59	5.52	20.93	36.02	-15.09
2472	13	AVG	10.29	10.38	13.35	30.00	-16.65	5.52	18.87	36.02	-17.15

Table 7-10. Average Conducted Output Power Measurements CDD (802.11g) – Low Data Rate

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Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	14.88	14.84	17.87	30.00	-12.13	5.52	23.39	36.02	-12.63
2417	2	AVG	18.43	18.50	21.48	30.00	-8.52	5.52	27.00	36.02	-9.02
2422	3	AVG	18.41	18.45	21.44	30.00	-8.56	5.52	26.96	36.02	-9.06
2437	6	AVG	18.49	18.29	21.40	30.00	-8.60	5.52	26.92	36.02	-9.10
2452	9	AVG	18.37	18.45	21.42	30.00	-8.58	5.52	26.94	36.02	-9.08
2457	10	AVG	18.38	18.42	21.41	30.00	-8.59	5.52	26.93	36.02	-9.09
2462	11	AVG	15.36	15.45	18.42	30.00	-11.58	5.52	23.94	36.02	-12.08
2467	12	AVG	12.36	12.47	15.43	30.00	-14.57	5.52	20.95	36.02	-15.07
2472	13	AVG	10.32	10.38	13.36	30.00	-16.64	5.52	18.88	36.02	-17.14

Table 7-11. Average Conducted Output Power Measurements CDD (802.11n) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	14.42	14.40	17.42	30.00	-12.58	5.52	22.94	36.02	-13.08
2417	2	AVG	16.70	16.80	19.76	30.00	-10.24	5.52	25.28	36.02	-10.74
2422	3	AVG	18.31	18.48	21.41	30.00	-8.59	5.52	26.93	36.02	-9.09
2437	6	AVG	18.24	18.36	21.31	30.00	-8.69	5.52	26.83	36.02	-9.19
2452	9	AVG	18.23	18.49	21.37	30.00	-8.63	5.52	26.89	36.02	-9.13
2457	10	AVG	17.73	17.85	20.80	30.00	-9.20	5.52	26.32	36.02	-9.70
2462	11	AVG	14.24	14.45	17.36	30.00	-12.64	5.52	22.88	36.02	-13.14
2467	12	AVG	12.26	12.38	15.33	30.00	-14.67	5.52	20.85	36.02	-15.17

Table 7-12. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	14.21	14.25	14.23	30.00	-15.75	2.00	16.25	36.02	-19.77
2417	2	AVG	16.45	16.50	16.45	30.00	-13.50	2.00	18.50	36.02	-17.52
2422	3	AVG	18.39	18.50	18.50	30.00	-11.50	2.00	20.50	36.02	-15.52
2437	6	AVG	18.50	18.42	18.37	30.00	-11.50	2.00	20.50	36.02	-15.52
2452	9	AVG	18.40	18.47	18.49	30.00	-11.51	2.00	20.49	36.02	-15.53
2457	10	AVG	17.99	17.96	17.49	30.00	-12.01	2.00	19.99	36.02	-16.03
2462	11	AVG	15.45	15.31	14.36	30.00	-14.55	2.00	17.45	36.02	-18.57
2467	12	AVG	13.00	12.85	12.85	30.00	-17.00	2.00	15.00	36.02	-21.02
2472	13	AVG	11.00	11.00	--	30.00	-19.00	2.00	13.00	36.02	-23.02

Table 7-13. Average Conducted Output Power Measurements Antenna 4a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	14.10	14.07	14.25	30.00	-15.75	3.00	17.25	36.02	-18.77
2417	2	AVG	16.37	16.49	16.41	30.00	-13.51	3.00	19.49	36.02	-16.53
2422	3	AVG	18.27	18.34	18.50	30.00	-11.50	3.00	21.50	36.02	-14.52
2437	6	AVG	18.35	18.37	18.50	30.00	-11.50	3.00	21.50	36.02	-14.52
2452	9	AVG	18.50	18.43	18.32	30.00	-11.50	3.00	21.50	36.02	-14.52
2457	10	AVG	17.86	17.95	17.33	30.00	-12.05	3.00	20.95	36.02	-15.07
2462	11	AVG	15.50	15.47	14.37	30.00	-14.50	3.00	18.50	36.02	-17.52
2467	12	AVG	13.00	12.88	12.87	30.00	-17.00	3.00	16.00	36.02	-20.02
2472	13	AVG	10.95	11.00	--	30.00	-19.00	3.00	14.00	36.02	-22.02

Table 7-14. Average Conducted Output Power Measurements Antenna 2a – Mid Data Rate

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Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	13.75	13.71	16.74	30.00	-13.26	5.52	22.26	36.02	-13.76
2417	2	AVG	15.82	15.76	18.80	30.00	-11.20	5.52	24.32	36.02	-11.70
2422	3	AVG	17.85	17.89	20.88	30.00	-9.12	5.52	26.40	36.02	-9.62
2437	6	AVG	17.97	17.86	20.93	30.00	-9.07	5.52	26.45	36.02	-9.57
2452	9	AVG	17.84	17.87	20.87	30.00	-9.13	5.52	26.39	36.02	-9.63
2457	10	AVG	17.48	17.50	20.50	30.00	-9.50	5.52	26.02	36.02	-10.00
2462	11	AVG	14.29	14.36	17.34	30.00	-12.66	5.52	22.86	36.02	-13.16
2467	12	AVG	12.50	12.38	15.45	30.00	-14.55	5.52	20.97	36.02	-15.05
2472	13	AVG	10.48	10.49	13.50	30.00	-16.50	5.52	19.02	36.02	-17.00

Table 7-15. Average Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	13.72	13.56	16.65	30.00	-13.35	5.52	22.17	36.02	-13.85
2417	2	AVG	15.86	15.78	18.83	30.00	-11.17	5.52	24.35	36.02	-11.67
2422	3	AVG	17.86	17.87	20.88	30.00	-9.12	5.52	26.40	36.02	-9.62
2437	6	AVG	17.95	17.88	20.93	30.00	-9.07	5.52	26.45	36.02	-9.57
2452	9	AVG	17.82	17.85	20.85	30.00	-9.15	5.52	26.37	36.02	-9.65
2457	10	AVG	17.45	17.46	20.47	30.00	-9.53	5.52	25.99	36.02	-10.03
2462	11	AVG	14.76	14.92	17.85	30.00	-12.15	5.52	23.37	36.02	-12.65
2467	12	AVG	12.48	12.44	15.47	30.00	-14.53	5.52	20.99	36.02	-15.03
2472	13	AVG	10.45	10.43	13.45	30.00	-16.55	5.52	18.97	36.02	-17.05

Table 7-16. Average Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	13.66	13.53	16.61	30.00	-13.39	5.52	22.13	36.02	-13.89
2417	2	AVG	15.77	15.88	18.84	30.00	-11.16	5.52	24.36	36.02	-11.66
2422	3	AVG	17.68	17.70	20.70	30.00	-9.30	5.52	26.22	36.02	-9.80
2437	6	AVG	17.75	17.77	20.77	30.00	-9.23	5.52	26.29	36.02	-9.73
2452	9	AVG	17.75	17.82	20.80	30.00	-9.20	5.52	26.32	36.02	-9.70
2457	10	AVG	16.75	16.56	19.67	30.00	-10.33	5.52	25.19	36.02	-10.83
2462	11	AVG	13.84	13.83	16.85	30.00	-13.15	5.52	22.37	36.02	-13.65
2467	12	AVG	12.09	12.18	15.15	30.00	-14.85	5.52	20.67	36.02	-15.35

Table 7-17. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	18.98	13.46	13.50	13.47	30.00	-11.02	2.00	20.98	36.02	-15.04
2417	2	AVG	18.99	15.61	15.75	15.69	30.00	-11.01	2.00	20.99	36.02	-15.03
2422	3	AVG	18.94	18.00	17.86	17.91	30.00	-11.06	2.00	20.94	36.02	-15.08
2437	6	AVG	18.92	17.96	17.75	17.86	30.00	-11.08	2.00	20.92	36.02	-15.10
2452	9	AVG	18.53	17.99	17.83	17.95	30.00	-11.47	2.00	20.53	36.02	-15.49
2457	10	AVG	18.98	16.94	16.72	16.47	30.00	-11.02	2.00	20.98	36.02	-15.04
2462	11	AVG	18.98	14.43	14.45	13.95	30.00	-11.02	2.00	20.98	36.02	-15.04
2467	12	AVG	16.86	12.43	12.28	12.38	30.00	-13.14	2.00	18.86	36.02	-17.16
2472	13	AVG	14.89	10.40	10.33	--	30.00	-15.11	2.00	16.89	36.02	-19.13

Table 7-18. Average Conducted Output Power Measurements Antenna 4a – High Data Rate

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Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	18.92	13.42	13.21	13.44	30.00	-11.08	3.00	21.92	36.02	-14.10
2417	2	AVG	18.90	15.53	15.54	15.68	30.00	-11.10	3.00	21.90	36.02	-14.12
2422	3	AVG	18.81	17.99	17.86	17.86	30.00	-11.19	3.00	21.81	36.02	-14.21
2437	6	AVG	18.98	17.89	17.85	17.96	30.00	-11.02	3.00	21.98	36.02	-14.04
2452	9	AVG	18.97	17.92	17.75	17.88	30.00	-11.03	3.00	21.97	36.02	-14.05
2457	10	AVG	18.85	17.00	16.86	16.41	30.00	-11.15	3.00	21.85	36.02	-14.17
2462	11	AVG	18.90	14.35	14.46	13.95	30.00	-11.10	3.00	21.90	36.02	-14.12
2467	12	AVG	16.94	12.31	12.46	12.39	30.00	-13.06	3.00	19.94	36.02	-16.08
2472	13	AVG	14.76	10.45	10.40	--	30.00	-15.24	3.00	17.76	36.02	-18.26

Table 7-19. Average Conducted Output Power Measurements Antenna 2a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	12.95	12.98	15.98	30.00	-14.02	5.52	21.50	36.02	-14.52
2417	2	AVG	15.20	15.25	18.24	30.00	-11.76	5.52	23.76	36.02	-12.26
2422	3	AVG	17.42	17.50	20.47	30.00	-9.53	5.52	25.99	36.02	-10.03
2437	6	AVG	17.50	17.24	20.38	30.00	-9.62	5.52	25.90	36.02	-10.12
2452	9	AVG	17.32	17.40	20.37	30.00	-9.63	5.52	25.89	36.02	-10.13
2457	10	AVG	16.50	16.46	19.49	30.00	-10.51	5.52	25.01	36.02	-11.01
2462	11	AVG	14.00	14.00	17.01	30.00	-12.99	5.52	22.53	36.02	-13.49
2467	12	AVG	11.41	11.28	14.36	30.00	-15.64	5.52	19.88	36.02	-16.14
2472	13	AVG	10.00	9.96	12.99	30.00	-17.01	5.52	18.51	36.02	-17.51

Table 7-20. Average Conducted Output Power Measurements CDD (802.11g) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	12.88	12.85	15.88	30.00	-14.12	5.52	21.40	36.02	-14.62
2417	2	AVG	15.05	15.15	18.11	30.00	-11.89	5.52	23.63	36.02	-12.39
2422	3	AVG	17.45	17.50	20.49	30.00	-9.51	5.52	26.01	36.02	-10.01
2437	6	AVG	17.30	17.25	20.29	30.00	-9.71	5.52	25.81	36.02	-10.21
2452	9	AVG	17.29	17.41	20.36	30.00	-9.64	5.52	25.88	36.02	-10.14
2457	10	AVG	16.33	16.50	19.43	30.00	-10.57	5.52	24.95	36.02	-11.07
2462	11	AVG	13.79	14.00	16.91	30.00	-13.09	5.52	22.43	36.02	-13.59
2467	12	AVG	11.35	11.44	14.41	30.00	-15.59	5.52	19.93	36.02	-16.09
2472	13	AVG	9.95	9.85	12.91	30.00	-17.09	5.52	18.43	36.02	-17.59

Table 7-21. Average Conducted Output Power Measurements CDD (802.11n) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	AVG	12.90	12.92	15.92	30.00	-14.08	5.52	21.44	36.02	-14.58
2417	2	AVG	15.25	15.25	18.26	30.00	-11.74	5.52	23.78	36.02	-12.24
2422	3	AVG	17.37	17.50	20.45	30.00	-9.55	5.52	25.97	36.02	-10.05
2437	6	AVG	17.37	17.41	20.40	30.00	-9.60	5.52	25.92	36.02	-10.10
2452	9	AVG	17.50	17.50	20.51	30.00	-9.49	5.52	26.03	36.02	-9.99
2457	10	AVG	16.00	15.96	18.99	30.00	-11.01	5.52	24.51	36.02	-11.51
2462	11	AVG	13.50	13.45	16.49	30.00	-13.51	5.52	22.01	36.02	-14.01
2467	12	AVG	11.31	11.46	14.40	30.00	-15.60	5.52	19.92	36.02	-16.10

Table 7-22. Average Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 54 of 315

7.3.2 Peak Output Power Measurement

\$15.247(b.3); RSS-247 [5.4]

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	20.05	20.07	19.63	30.00	-9.93	2.00	22.07	36.02	-13.95
2417	2	PEAK	23.06	23.34	22.41	30.00	-6.66	2.00	25.34	36.02	-10.68
2422	3	PEAK	23.27	23.23	23.31	30.00	-6.69	2.00	25.31	36.02	-10.71
2437	6	PEAK	25.09	25.03	25.19	30.00	-4.81	2.00	27.19	36.02	-8.83
2452	9	PEAK	23.31	23.10	23.21	30.00	-6.69	2.00	25.31	36.02	-10.71
2457	10	PEAK	23.30	23.53	22.97	30.00	-6.47	2.00	25.53	36.02	-10.49
2462	11	PEAK	20.59	20.69	19.58	30.00	-9.31	2.00	22.69	36.02	-13.33
2467	12	PEAK	18.03	18.33	18.35	30.00	-11.65	2.00	20.35	36.02	-15.67
2472	13	PEAK	18.13	18.23	--	30.00	-11.77	2.00	20.23	36.02	-15.79

Table 7-23. Peak Conducted Output Power Measurements Antenna 4a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	19.96	20.14	19.73	30.00	-9.86	3.00	23.14	36.02	-12.88
2417	2	PEAK	23.28	23.28	22.22	30.00	-6.72	3.00	26.28	36.02	-9.74
2422	3	PEAK	23.31	23.07	23.17	30.00	-6.69	3.00	26.31	36.02	-9.71
2437	6	PEAK	24.80	25.11	25.15	30.00	-4.85	3.00	28.15	36.02	-7.87
2452	9	PEAK	23.35	23.14	23.11	30.00	-6.65	3.00	26.35	36.02	-9.67
2457	10	PEAK	23.26	23.47	22.64	30.00	-6.53	3.00	26.47	36.02	-9.55
2462	11	PEAK	20.49	20.39	19.65	30.00	-9.51	3.00	23.49	36.02	-12.53
2467	12	PEAK	18.32	18.39	18.24	30.00	-11.61	3.00	21.39	36.02	-14.63
2472	13	PEAK	18.18	17.99	--	30.00	-11.82	3.00	21.18	36.02	-14.84

Table 7-24. Peak Conducted Output Power Measurements Antenna 2a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	19.31	19.42	22.38	30.00	-7.62	5.52	27.90	36.02	-8.12
2417	2	PEAK	22.80	22.82	25.82	30.00	-4.18	5.52	31.34	36.02	-4.68
2422	3	PEAK	22.71	22.75	25.74	30.00	-4.26	5.52	31.26	36.02	-4.76
2437	6	PEAK	24.55	24.44	27.51	30.00	-2.49	5.52	33.03	36.02	-2.99
2452	9	PEAK	22.54	22.54	25.55	30.00	-4.45	5.52	31.07	36.02	-4.95
2457	10	PEAK	22.93	22.83	25.89	30.00	-4.11	5.52	31.41	36.02	-4.61
2462	11	PEAK	19.93	19.97	22.96	30.00	-7.04	5.52	28.48	36.02	-7.54
2467	12	PEAK	16.68	16.48	19.59	30.00	-10.41	5.52	25.11	36.02	-10.91
2472	13	PEAK	14.56	14.59	17.59	30.00	-12.41	5.52	23.11	36.02	-12.91

Table 7-25. Peak Conducted Output Power Measurements CDD (802.11g) – Low Data Rate

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 55 of 315

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	19.34	19.46	22.41	30.00	-7.59	5.52	27.93	36.02	-8.09
2417	2	PEAK	22.83	22.86	25.86	30.00	-4.14	5.52	31.38	36.02	-4.64
2422	3	PEAK	22.85	22.82	25.85	30.00	-4.15	5.52	31.37	36.02	-4.65
2437	6	PEAK	24.58	24.48	27.54	30.00	-2.46	5.52	33.06	36.02	-2.96
2452	9	PEAK	22.57	22.58	25.59	30.00	-4.41	5.52	31.11	36.02	-4.91
2457	10	PEAK	22.96	22.87	25.93	30.00	-4.07	5.52	31.45	36.02	-4.57
2462	11	PEAK	19.96	20.01	23.00	30.00	-7.00	5.52	28.52	36.02	-7.50
2467	12	PEAK	16.71	16.52	19.63	30.00	-10.37	5.52	25.15	36.02	-10.87
2472	13	PEAK	14.59	14.63	17.62	30.00	-12.38	5.52	23.14	36.02	-12.88

Table 7-26. Peak Conducted Output Power Measurements CDD (802.11n) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	24.19	24.05	27.13	30.00	-2.87	5.52	32.65	36.02	-3.37
2417	2	PEAK	25.66	25.57	28.63	30.00	-1.37	5.52	34.15	36.02	-1.87
2422	3	PEAK	26.65	26.47	29.57	30.00	-0.43	5.52	35.09	36.02	-0.93
2437	6	PEAK	26.65	26.38	29.53	30.00	-0.47	5.52	35.05	36.02	-0.97
2452	9	PEAK	26.66	26.46	29.57	30.00	-0.43	5.52	35.09	36.02	-0.93
2457	10	PEAK	26.44	26.32	29.39	30.00	-0.61	5.52	34.91	36.02	-1.11
2462	11	PEAK	24.89	24.80	27.86	30.00	-2.14	5.52	33.38	36.02	-2.64
2467	12	PEAK	23.18	22.88	26.04	30.00	-3.96	5.52	31.56	36.02	-4.46

Table 7-27. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	18.63	20.85	21.49	30.00	-8.51	2.00	23.49	36.02	-12.53
2417	2	PEAK	20.80	23.29	24.43	30.00	-5.57	2.00	26.43	36.02	-9.59
2422	3	PEAK	22.65	25.00	25.28	30.00	-4.72	2.00	27.28	36.02	-8.74
2437	6	PEAK	25.24	25.37	25.58	30.00	-4.42	2.00	27.58	36.02	-8.44
2452	9	PEAK	22.74	24.91	25.17	30.00	-4.83	2.00	27.17	36.02	-8.85
2457	10	PEAK	22.51	24.69	24.97	30.00	-5.03	2.00	26.97	36.02	-9.05
2462	11	PEAK	20.06	22.30	21.62	30.00	-7.70	2.00	24.30	36.02	-11.72
2467	12	PEAK	17.68	19.81	20.12	30.00	-9.88	2.00	22.12	36.02	-13.90
2472	13	PEAK	10.15	19.42	--	30.00	-10.58	2.00	21.42	36.02	-14.60

Table 7-28. Peak Conducted Output Power Measurements Antenna 4a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	18.58	20.70	21.67	30.00	-8.33	3.00	24.67	36.02	-11.35
2417	2	PEAK	20.75	23.22	24.36	30.00	-5.64	3.00	27.36	36.02	-8.66
2422	3	PEAK	22.55	24.80	25.08	30.00	-4.92	3.00	28.08	36.02	-7.94
2437	6	PEAK	25.04	25.26	25.51	30.00	-4.49	3.00	28.51	36.02	-7.51
2452	9	PEAK	22.66	24.87	24.97	30.00	-5.03	3.00	27.97	36.02	-8.05
2457	10	PEAK	22.23	24.52	24.64	30.00	-5.36	3.00	27.64	36.02	-8.38
2462	11	PEAK	20.04	22.50	21.66	30.00	-7.50	3.00	25.50	36.02	-10.52
2467	12	PEAK	17.84	19.92	20.19	30.00	-9.81	3.00	23.19	36.02	-12.83
2472	13	PEAK	17.98	19.39	--	30.00	-10.61	3.00	22.39	36.02	-13.63

Table 7-29. Peak Conducted Output Power Measurements Antenna 2a – Mid Data Rate

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device
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Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	20.67	20.29	23.49	30.00	-6.51	5.52	29.01	36.02	-7.01
2417	2	PEAK	22.77	22.82	25.81	30.00	-4.19	5.52	31.33	36.02	-4.69
2422	3	PEAK	24.74	24.32	27.55	30.00	-2.45	5.52	33.07	36.02	-2.95
2437	6	PEAK	24.99	24.89	27.95	30.00	-2.05	5.52	33.47	36.02	-2.55
2452	9	PEAK	24.41	24.54	27.49	30.00	-2.51	5.52	33.01	36.02	-3.01
2457	10	PEAK	24.51	24.38	27.46	30.00	-2.54	5.52	32.98	36.02	-3.04
2462	11	PEAK	22.50	21.96	25.25	30.00	-4.75	5.52	30.77	36.02	-5.25
2467	12	PEAK	20.01	19.86	22.95	30.00	-7.05	5.52	28.47	36.02	-7.55
2472	13	PEAK	19.32	19.11	22.23	30.00	-7.77	5.52	27.75	36.02	-8.27

Table 7-30. Peak Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	20.71	20.31	23.52	30.00	-6.48	5.52	29.04	36.02	-6.98
2417	2	PEAK	22.81	22.84	25.84	30.00	-4.16	5.52	31.36	36.02	-4.66
2422	3	PEAK	24.71	24.34	27.54	30.00	-2.46	5.52	33.06	36.02	-2.96
2437	6	PEAK	24.97	24.91	27.95	30.00	-2.05	5.52	33.47	36.02	-2.55
2452	9	PEAK	24.38	24.52	27.46	30.00	-2.54	5.52	32.98	36.02	-3.04
2457	10	PEAK	24.48	24.36	27.43	30.00	-2.57	5.52	32.95	36.02	-3.07
2462	11	PEAK	22.26	21.97	25.13	30.00	-4.87	5.52	30.65	36.02	-5.37
2467	12	PEAK	19.98	19.92	22.96	30.00	-7.04	5.52	28.48	36.02	-7.54
2472	13	PEAK	19.29	19.17	22.24	30.00	-7.76	5.52	27.76	36.02	-8.26

Table 7-31. Peak Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	21.07	20.82	23.96	30.00	-6.04	5.52	29.48	36.02	-6.54
2417	2	PEAK	23.38	23.44	26.42	30.00	-3.58	5.52	31.94	36.02	-4.08
2422	3	PEAK	24.96	24.81	27.90	30.00	-2.10	5.52	33.42	36.02	-2.60
2437	6	PEAK	25.03	24.92	27.99	30.00	-2.01	5.52	33.51	36.02	-2.51
2452	9	PEAK	25.04	24.91	27.99	30.00	-2.01	5.52	33.51	36.02	-2.51
2457	10	PEAK	24.37	24.07	27.23	30.00	-2.77	5.52	32.75	36.02	-3.27
2462	11	PEAK	21.68	21.58	24.64	30.00	-5.36	5.52	30.16	36.02	-5.86
2467	12	PEAK	19.86	19.98	22.93	30.00	-7.07	5.52	28.45	36.02	-7.57

Table 7-32. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	21.81	22.85	22.74	22.56	30.00	-7.15	2.00	24.85	36.02	-11.17
2417	2	PEAK	21.80	24.78	24.68	24.48	30.00	-5.22	2.00	26.78	36.02	-9.24
2422	3	PEAK	21.73	26.06	25.80	25.85	30.00	-3.94	2.00	28.06	36.02	-7.96
2437	6	PEAK	21.45	26.09	25.75	25.81	30.00	-3.91	2.00	28.09	36.02	-7.93
2452	9	PEAK	21.33	26.25	25.85	25.91	30.00	-3.75	2.00	28.25	36.02	-7.77
2457	10	PEAK	21.75	25.68	25.34	25.12	30.00	-4.32	2.00	27.68	36.02	-8.34
2462	11	PEAK	21.79	24.00	23.75	23.75	30.00	-6.00	2.00	26.00	36.02	-10.02
2467	12	PEAK	19.69	22.11	21.61	21.74	30.00	-7.89	2.00	24.11	36.02	-11.91
2472	13	PEAK	17.68	19.09	19.64	--	30.00	-10.36	2.00	21.64	36.02	-14.38

Table 7-33. Peak Conducted Output Power Measurements Antenna 4a – High Data Rate

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 57 of 315

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	21.50	23.26	22.50	22.61	30.00	-6.74	3.00	26.26	36.02	-9.76
2417	2	PEAK	21.74	24.53	24.58	24.67	30.00	-5.33	3.00	27.67	36.02	-8.35
2422	3	PEAK	21.64	26.12	25.87	25.87	30.00	-3.88	3.00	29.12	36.02	-6.90
2437	6	PEAK	21.79	26.08	25.76	25.84	30.00	-3.92	3.00	29.08	36.02	-6.94
2452	9	PEAK	21.78	26.10	25.77	25.87	30.00	-3.90	3.00	29.10	36.02	-6.92
2457	10	PEAK	21.68	25.74	25.39	25.21	30.00	-4.26	3.00	28.74	36.02	-7.28
2462	11	PEAK	21.76	24.18	23.71	23.47	30.00	-5.82	3.00	27.18	36.02	-8.84
2467	12	PEAK	19.74	22.17	21.75	21.62	30.00	-7.83	3.00	25.17	36.02	-10.85
2472	13	PEAK	17.52	19.14	19.79	--	30.00	-10.21	3.00	22.79	36.02	-13.23

Table 7-34. Peak Conducted Output Power Measurements Antenna 2a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	22.26	22.25	25.27	30.00	-4.73	5.52	30.79	36.02	-5.23
2417	2	PEAK	24.22	24.24	27.24	30.00	-2.76	5.52	32.76	36.02	-3.26
2422	3	PEAK	25.64	25.76	28.71	30.00	-1.29	5.52	34.23	36.02	-1.79
2437	6	PEAK	25.75	25.49	28.63	30.00	-1.37	5.52	34.15	36.02	-1.87
2452	9	PEAK	25.69	25.59	28.65	30.00	-1.35	5.52	34.17	36.02	-1.85
2457	10	PEAK	25.47	25.27	28.38	30.00	-1.62	5.52	33.90	36.02	-2.12
2462	11	PEAK	23.52	23.29	26.42	30.00	-3.58	5.52	31.94	36.02	-4.08
2467	12	PEAK	20.95	20.59	23.78	30.00	-6.22	5.52	29.30	36.02	-6.72
2472	13	PEAK	18.76	19.05	21.92	30.00	-8.08	5.52	27.44	36.02	-8.58

Table 7-35. Peak Conducted Output Power Measurements CDD (802.11g) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	22.13	22.14	25.15	30.00	-4.85	5.52	30.67	36.02	-5.35
2417	2	PEAK	24.14	24.25	27.21	30.00	-2.79	5.52	32.73	36.02	-3.29
2422	3	PEAK	25.67	25.69	28.69	30.00	-1.31	5.52	34.21	36.02	-1.81
2437	6	PEAK	25.62	25.51	28.58	30.00	-1.42	5.52	34.10	36.02	-1.92
2452	9	PEAK	25.66	25.67	28.68	30.00	-1.32	5.52	34.20	36.02	-1.82
2457	10	PEAK	25.18	25.24	28.22	30.00	-1.78	5.52	33.74	36.02	-2.28
2462	11	PEAK	23.22	23.43	26.34	30.00	-3.66	5.52	31.86	36.02	-4.16
2467	12	PEAK	20.78	20.82	23.81	30.00	-6.19	5.52	29.33	36.02	-6.69
2472	13	PEAK	19.45	19.45	22.46	30.00	-7.54	5.52	27.98	36.02	-8.04

Table 7-36. Peak Conducted Output Power Measurements CDD (802.11n) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 4a	Antenna 2a	Summed						
2412	1	PEAK	20.59	20.69	23.65	30.00	-6.35	5.52	29.17	36.02	-6.85
2417	2	PEAK	23.08	22.99	26.05	30.00	-3.95	5.52	31.57	36.02	-4.45
2422	3	PEAK	24.75	24.81	27.79	30.00	-2.21	5.52	33.31	36.02	-2.71
2437	6	PEAK	24.74	24.74	27.75	30.00	-2.25	5.52	33.27	36.02	-2.75
2452	9	PEAK	24.97	24.82	27.91	30.00	-2.09	5.52	33.43	36.02	-2.59
2457	10	PEAK	24.24	24.10	27.18	30.00	-2.82	5.52	32.70	36.02	-3.32
2462	11	PEAK	21.82	21.78	24.81	30.00	-5.19	5.52	30.33	36.02	-5.69
2467	12	PEAK	19.17	19.42	22.31	30.00	-7.69	5.52	27.83	36.02	-8.19

Table 7-37. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate

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Note:

Per ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 4a and Antenna 2a were first measured separately during CDD transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample CDD Calculation:

At 2412MHz, the average conducted output power was measured to be 14.88 dBm for Antenna 4a and 14.84 dBm for Antenna 2a.

$$\text{Antenna 4a} + \text{Antenna 2a} = \text{CDD}$$

$$(14.88 \text{ dBm} + 14.84 \text{ dBm}) = (30.761 \text{ mW} + 30.479 \text{ mW}) = 61.240 \text{ mW} = 17.87 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2412MHz, the average conducted output power was calculated to be 17.87 dBm with directional gain of 5.52 dBi.

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

$$17.87 \text{ dBm} + 5.52 \text{ dBi} = 23.39 \text{ dBm}$$

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7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None

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Antenna 4a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	6	-9.31	8.00	-17.31	Pass
2437	6	g	6	-4.01	8.00	-12.01	Pass
2462	11	g	6	-8.20	8.00	-16.20	Pass
2412	1	n	6.5/7.2 (MCS0)	-8.31	8.00	-16.31	Pass
2437	6	n	6.5/7.2 (MCS0)	-5.46	8.00	-13.46	Pass
2462	11	n	6.5/7.2 (MCS0)	-8.09	8.00	-16.09	Pass
2412	1	ax	8/8.6 (MCS0)	-9.02	8.00	-17.02	Pass
2437	6	ax	8/8.6 (MCS0)	-5.51	8.00	-13.51	Pass
2462	11	ax	8/8.6 (MCS0)	-9.08	8.00	-17.08	Pass

Table 7-38. Conducted Power Density Measurements Antenna 4a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	18	-11.89	8.00	-19.89	Pass
2437	6	g	18	-5.16	8.00	-13.16	Pass
2462	11	g	18	-9.98	8.00	-17.98	Pass
2412	1	n	26/28.9 (MCS3)	-9.90	8.00	-17.90	Pass
2437	6	n	26/28.9 (MCS3)	-5.65	8.00	-13.65	Pass
2462	11	n	26/28.9 (MCS3)	-7.73	8.00	-15.73	Pass
2412	1	ax-SU	33/34.4 (MCS3)	-9.98	8.00	-17.98	Pass
2437	6	ax-SU	33/34.4 (MCS3)	-6.72	8.00	-14.72	Pass
2462	11	ax-SU	33/34.4 (MCS3)	-9.74	8.00	-17.74	Pass

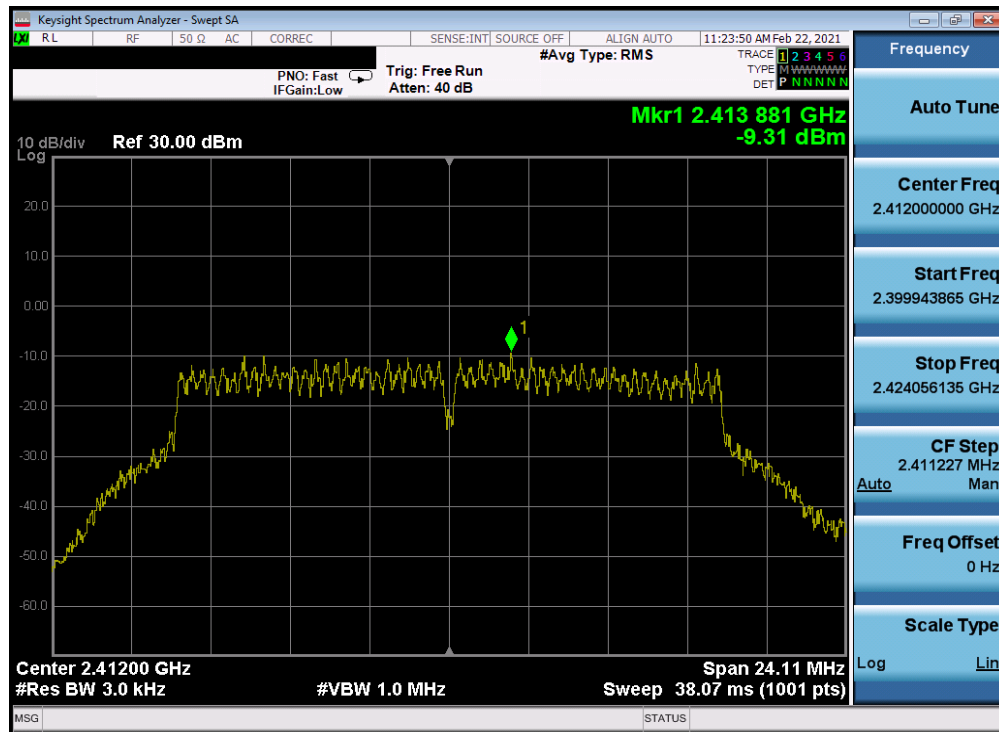
Table 7-39. Conducted Power Density Measurements Antenna 4a (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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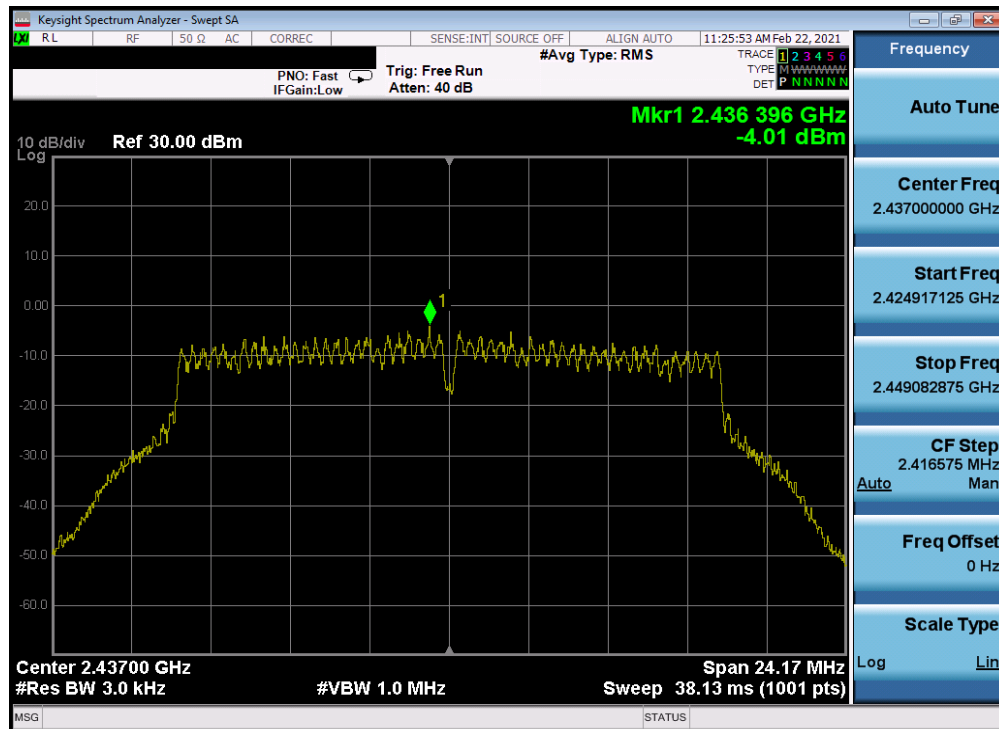
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	11	-0.46	8.00	-8.46	Pass
2437	6	b	11	0.14	8.00	-7.86	Pass
2462	11	b	11	-0.58	8.00	-8.58	Pass
2412	1	g	54	-11.60	8.00	-19.60	Pass
2437	6	g	54	-6.95	8.00	-14.95	Pass
2462	11	g	54	-10.20	8.00	-18.20	Pass
2412	1	n	65/72.2 (MCS7)	-9.80	8.00	-17.80	Pass
2437	6	n	65/72.2 (MCS7)	-5.67	8.00	-13.67	Pass
2462	11	n	65/72.2 (MCS7)	-8.41	8.00	-16.41	Pass
2412	1	ax-SU	65/68.8 (MCS5)	-10.48	8.00	-18.48	Pass
2437	6	ax-SU	65/68.8 (MCS5)	-7.10	8.00	-15.10	Pass
2462	11	ax-SU	65/68.8 (MCS5)	-10.55	8.00	-18.55	Pass

Table 7-40. Conducted Power Density Measurements Antenna 4a (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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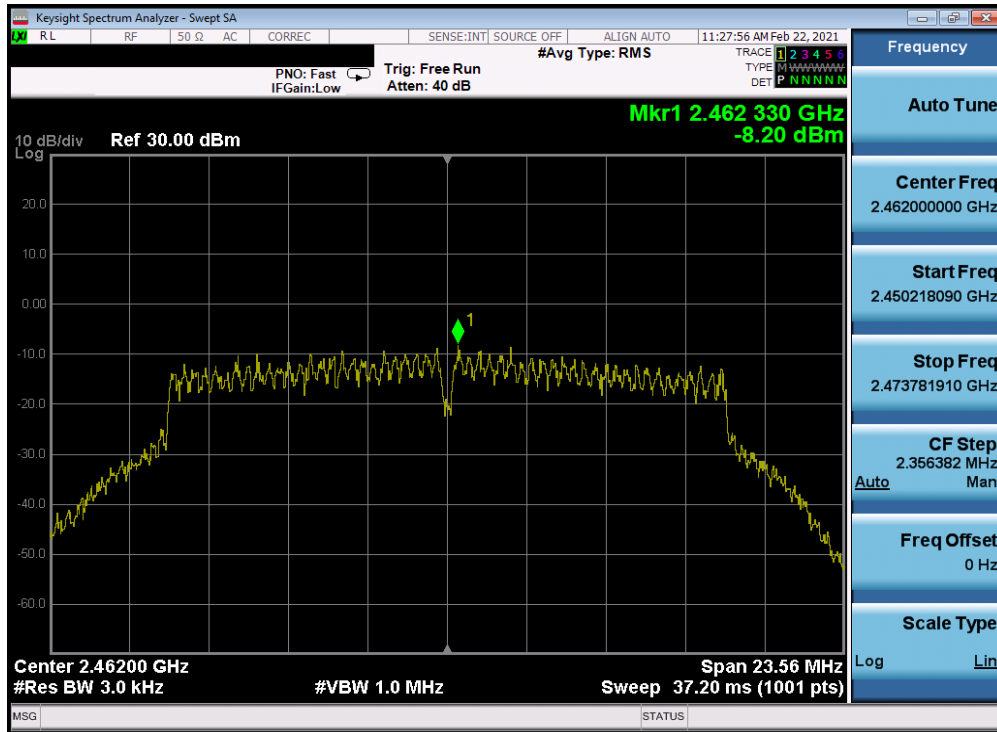


Plot 7-61. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 1) – 6Mbps

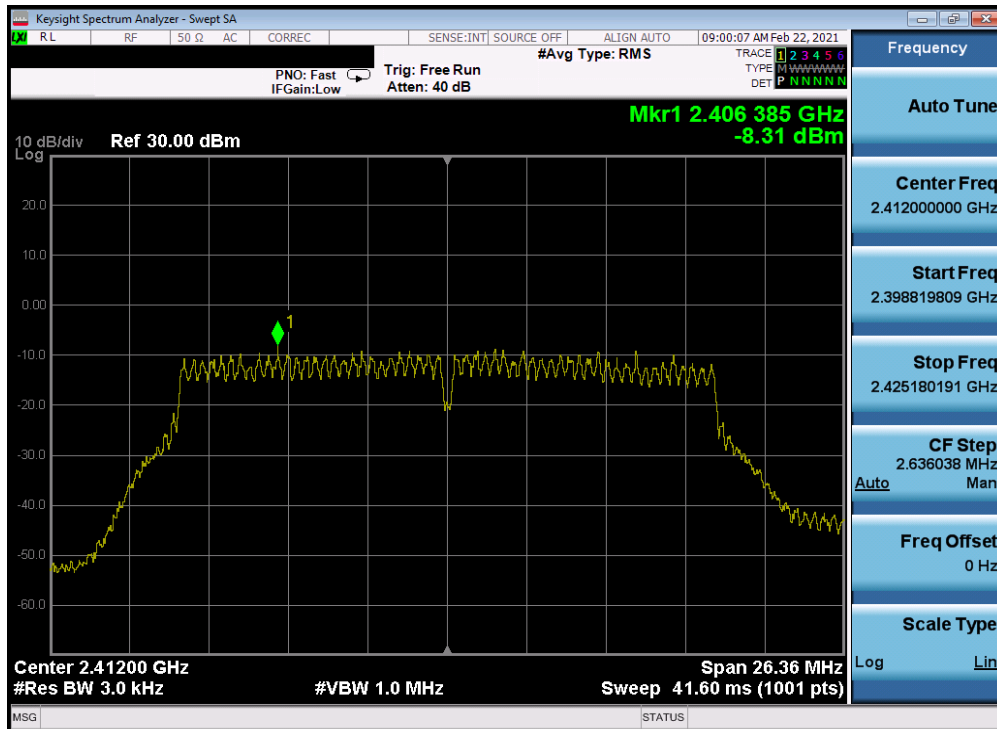


Plot 7-62. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 6) – 6Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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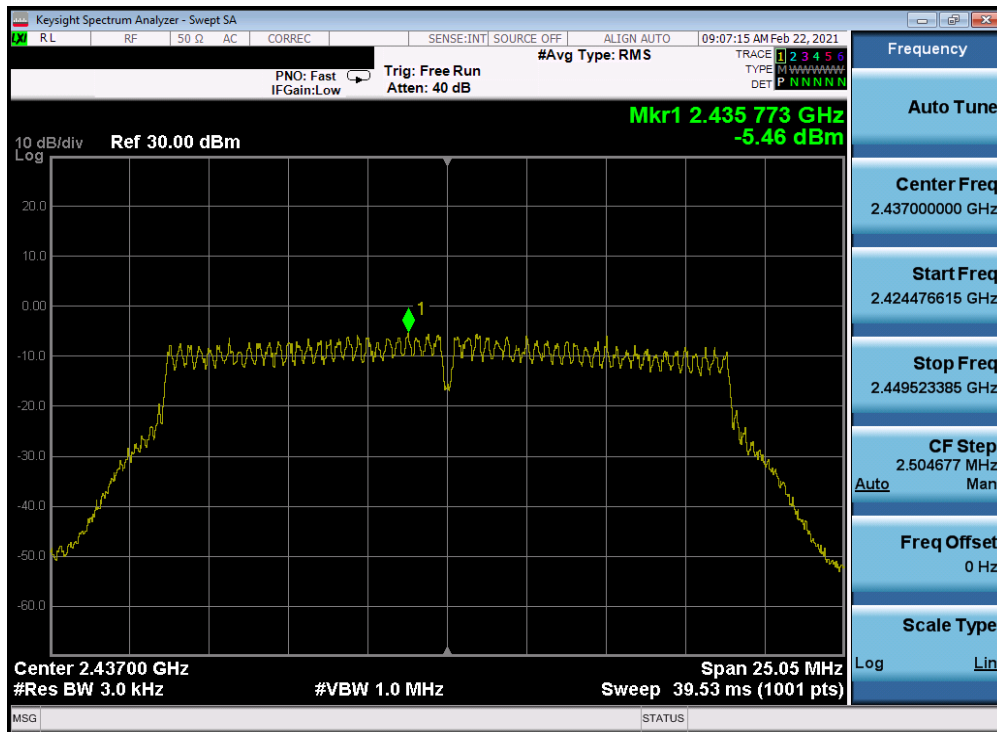


Plot 7-63. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 11) – 6Mbps

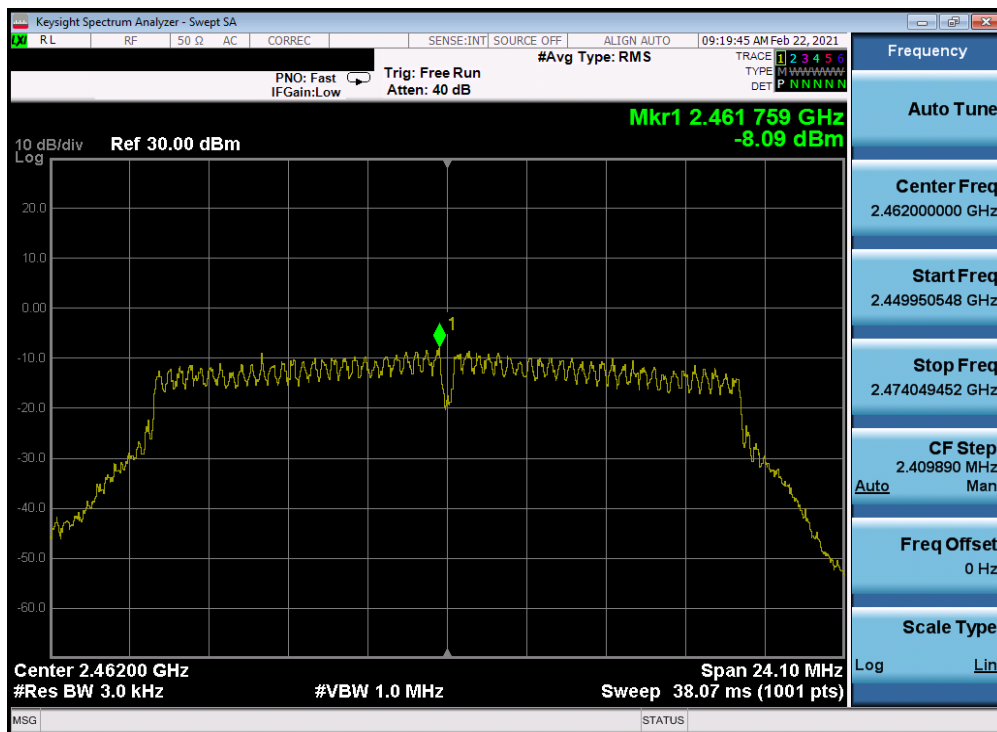


Plot 7-64. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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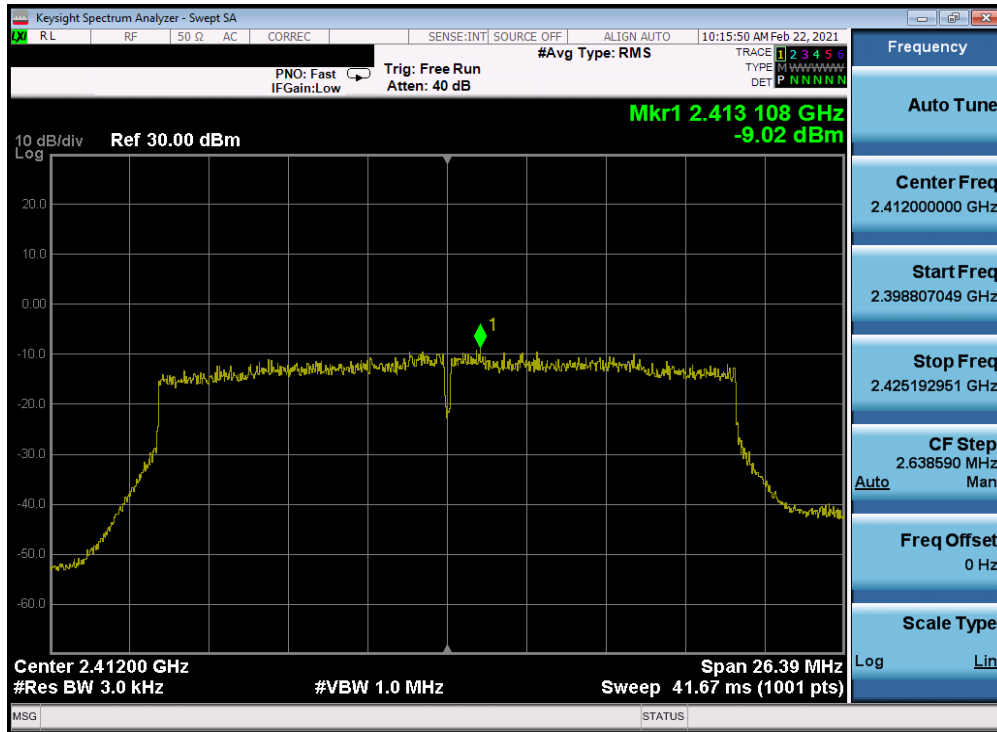


Plot 7-65. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS0

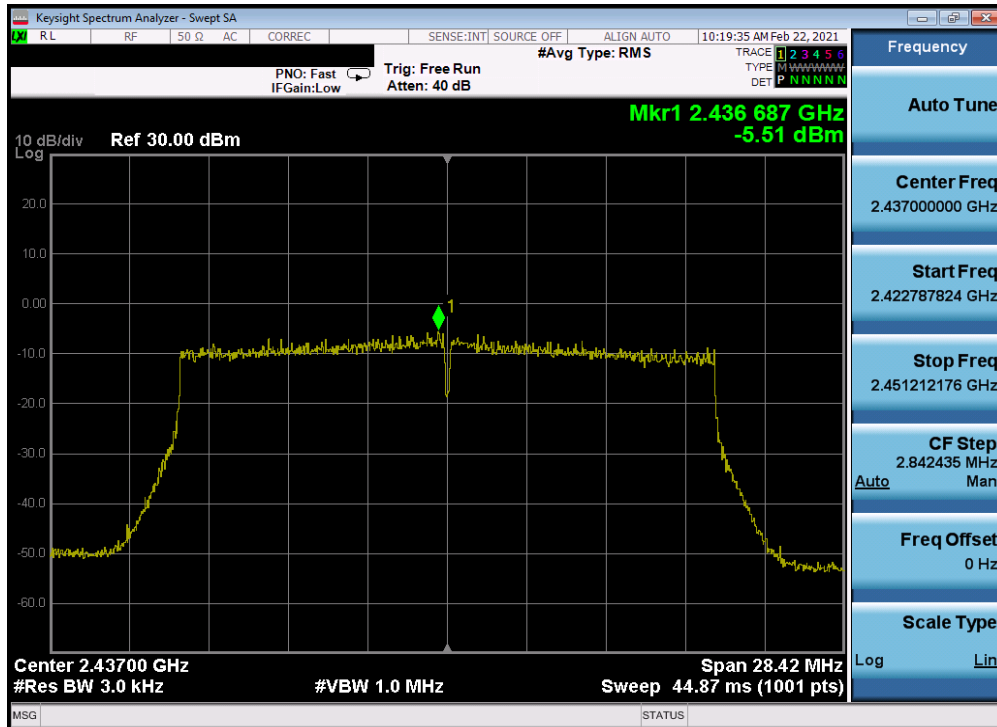


Plot 7-66. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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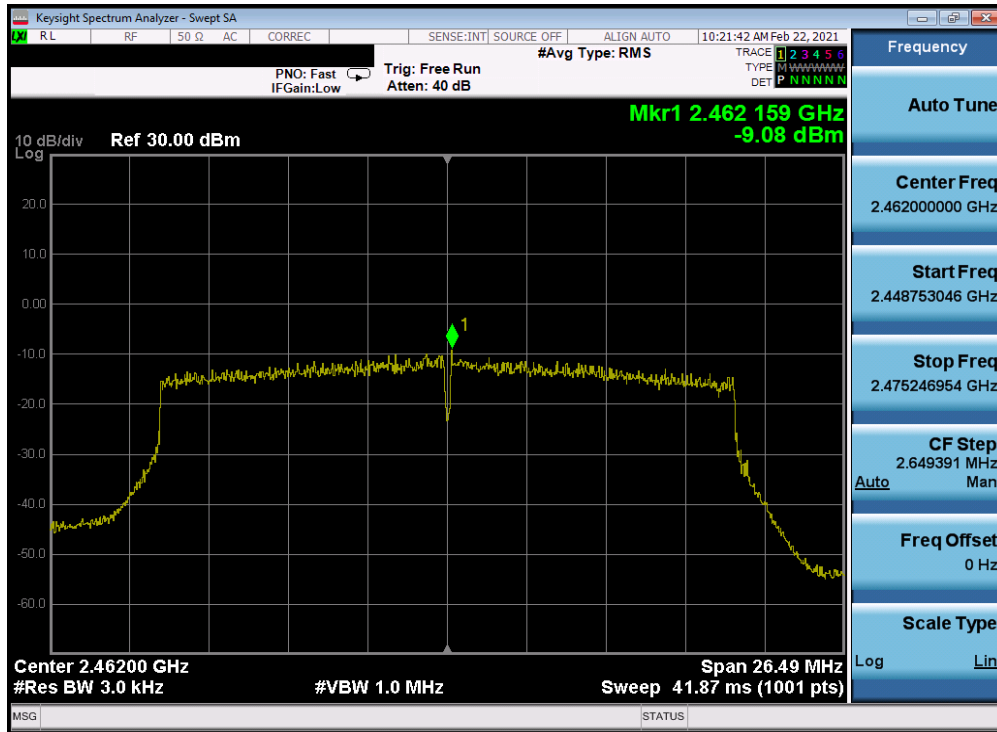


Plot 7-67. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0

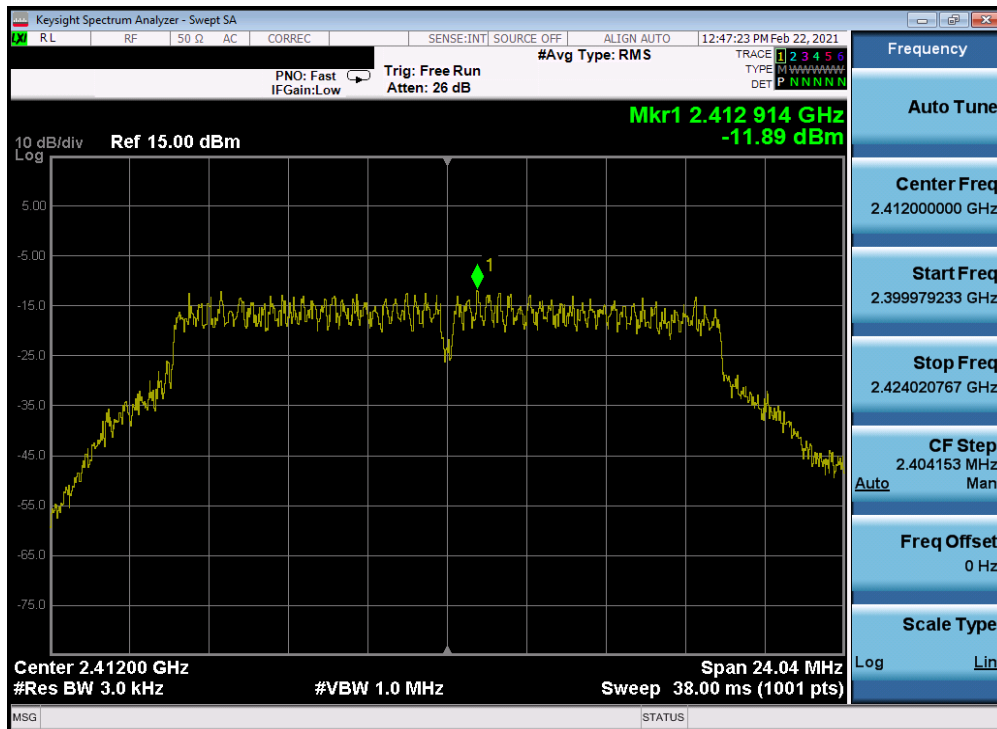


Plot 7-68. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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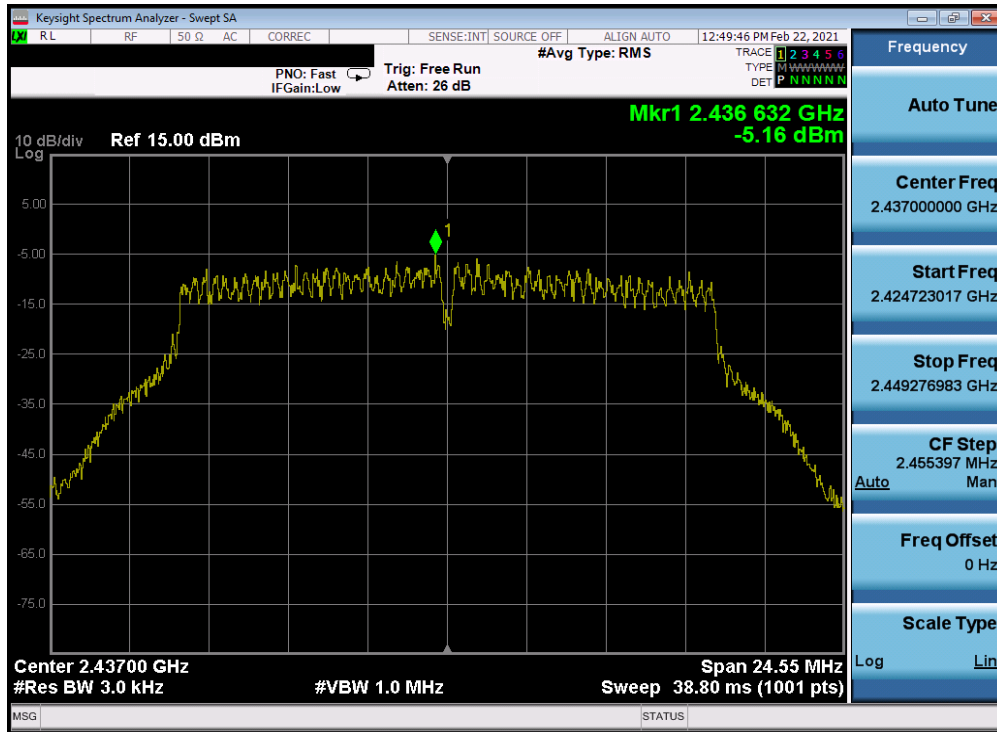


Plot 7-69. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0

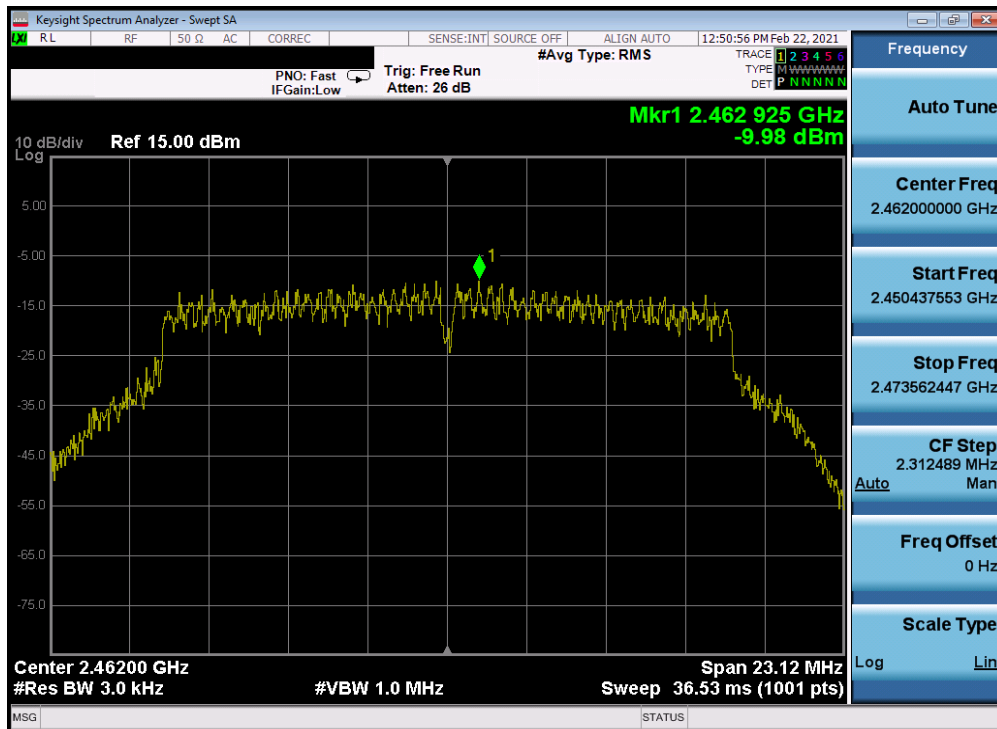


Plot 7-70. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 1) – 18Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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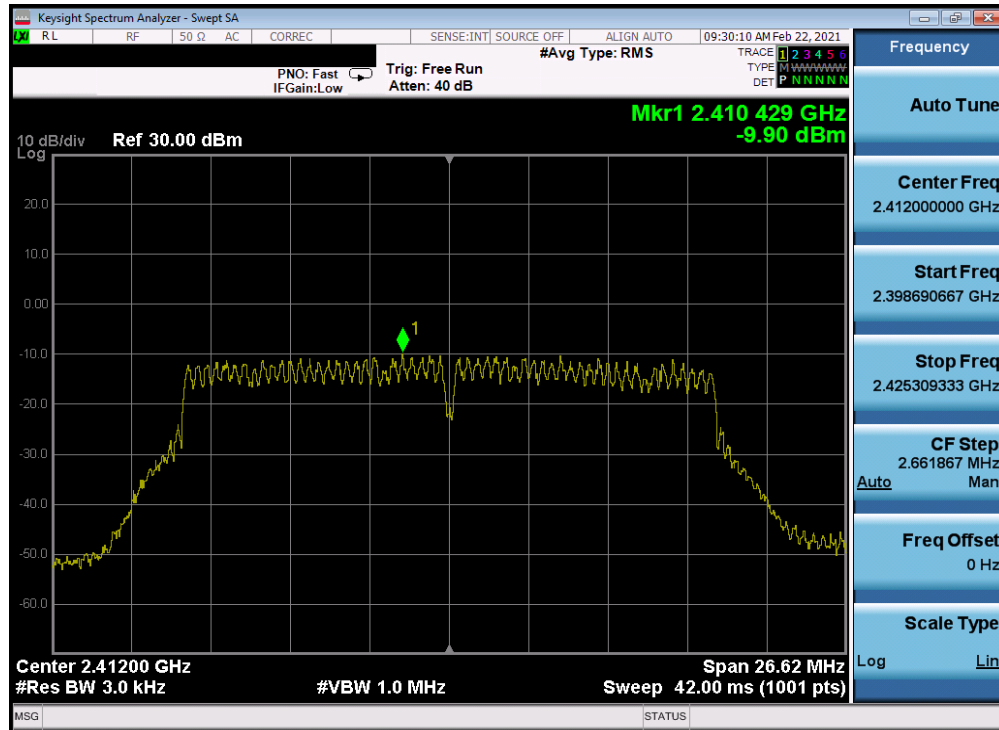


Plot 7-71. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 6) – 18Mbps

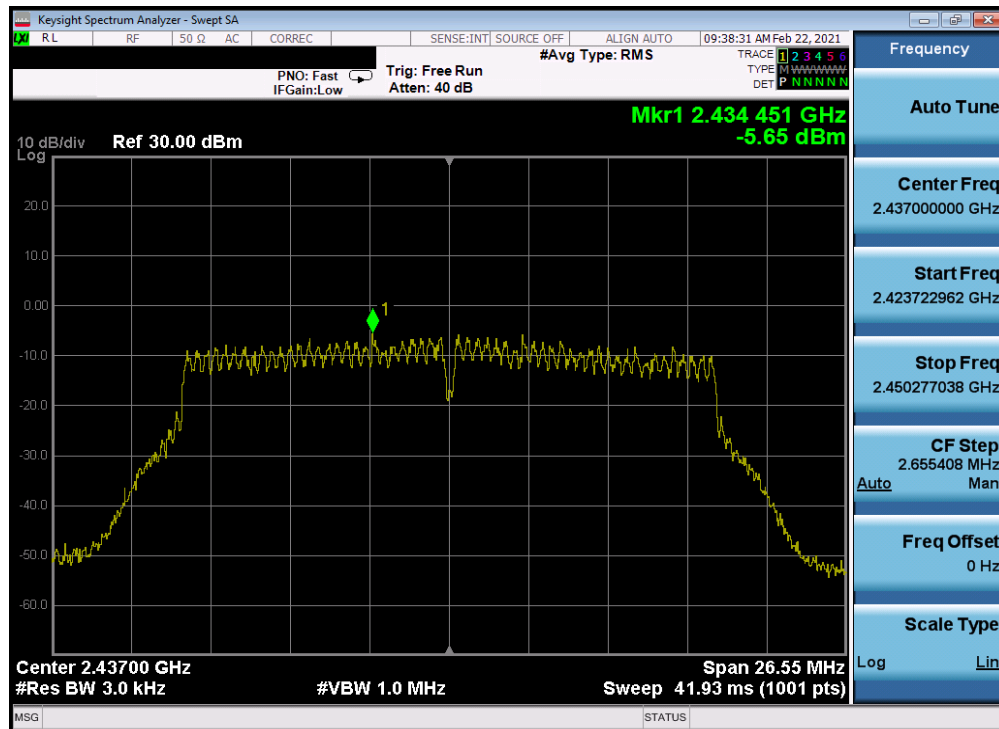


Plot 7-72. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 11) – 18Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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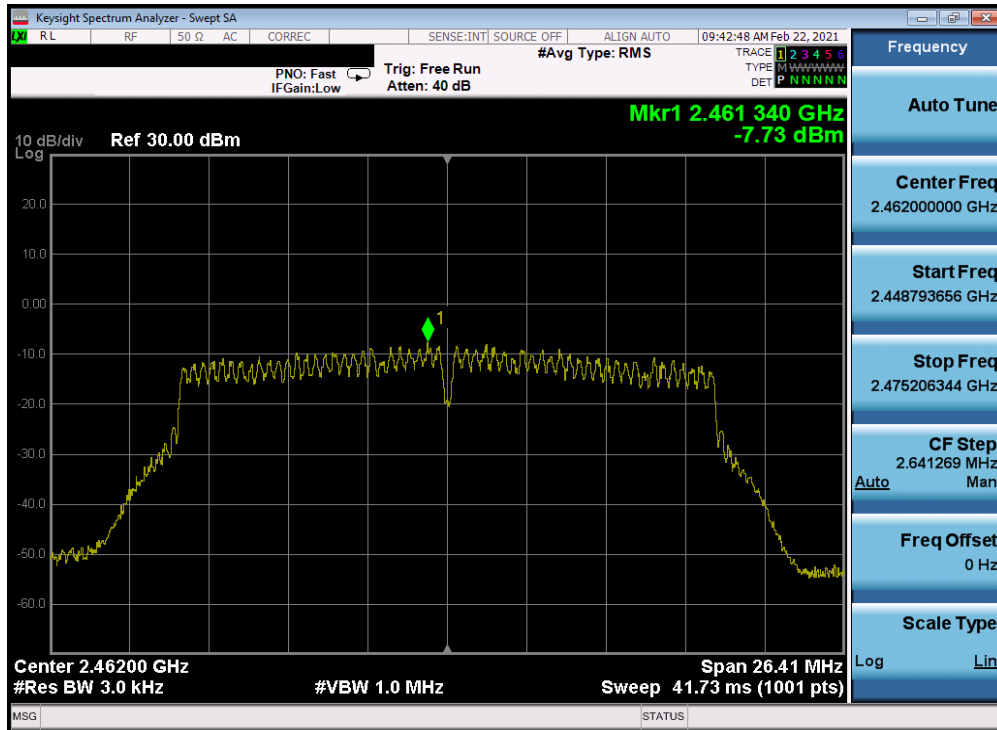


Plot 7-73. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS3

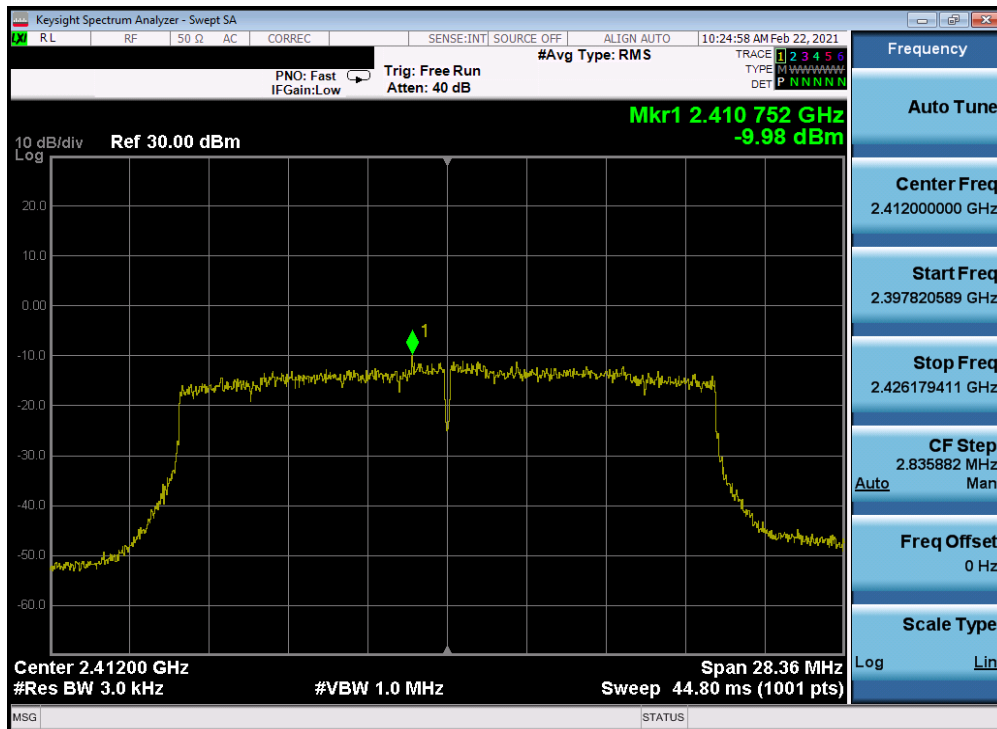


Plot 7-74. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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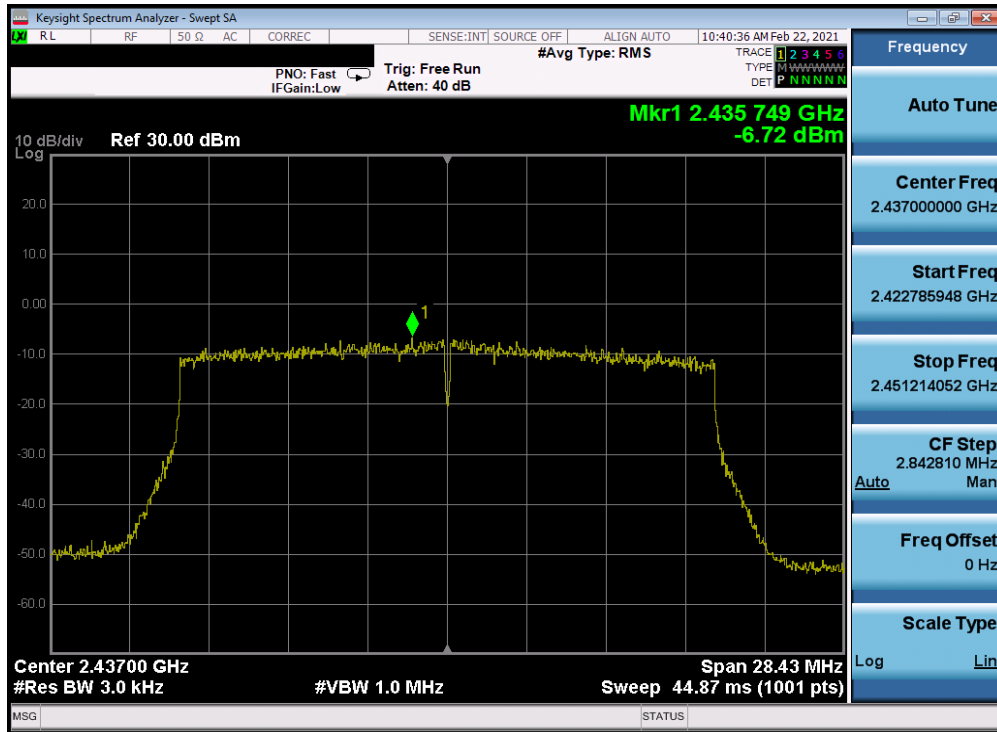


Plot 7-75. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS3

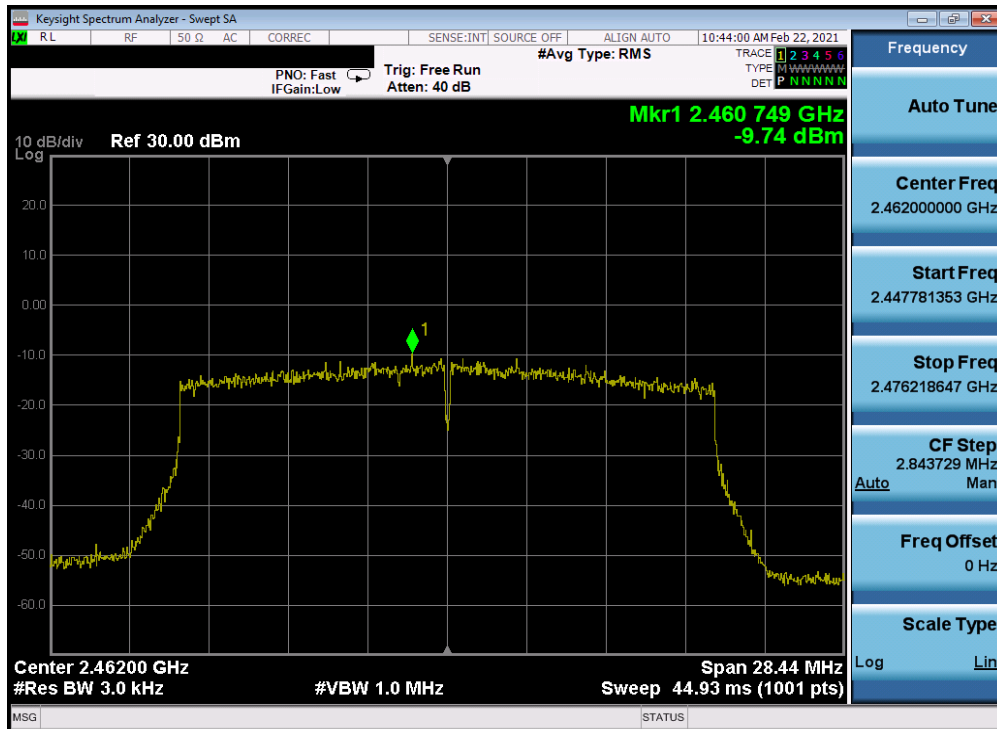


Plot 7-76. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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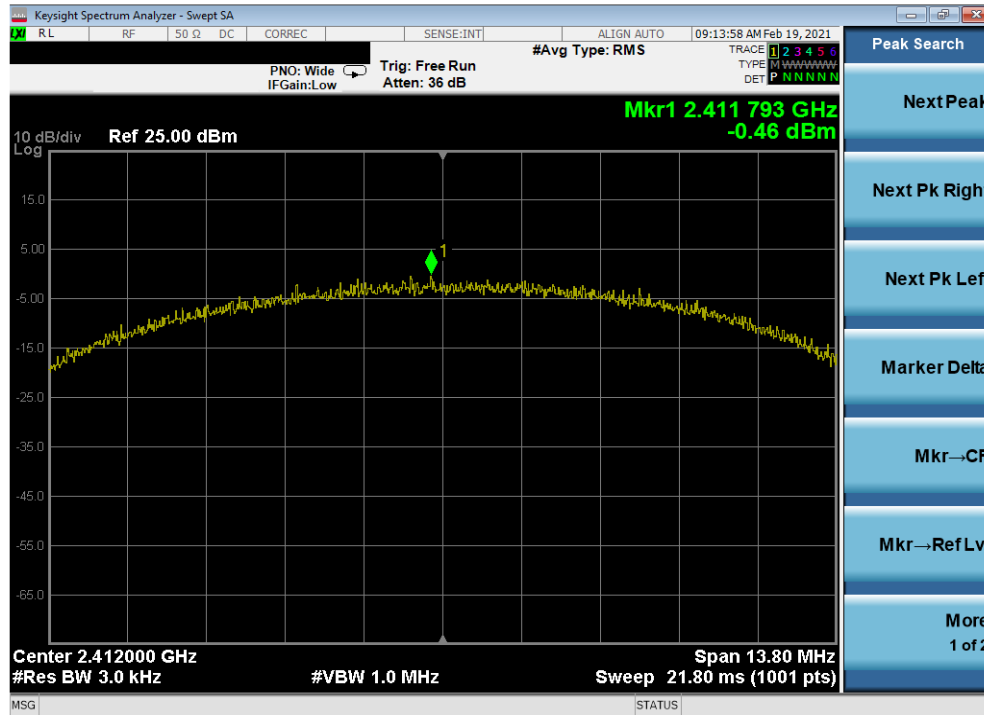


Plot 7-77. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

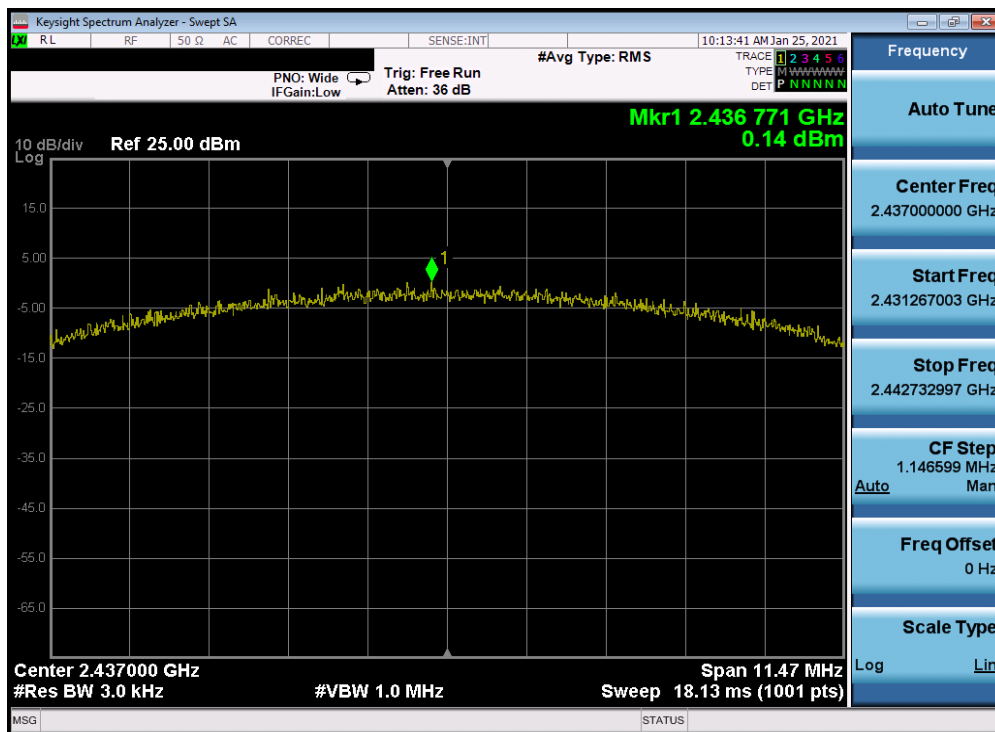


Plot 7-78. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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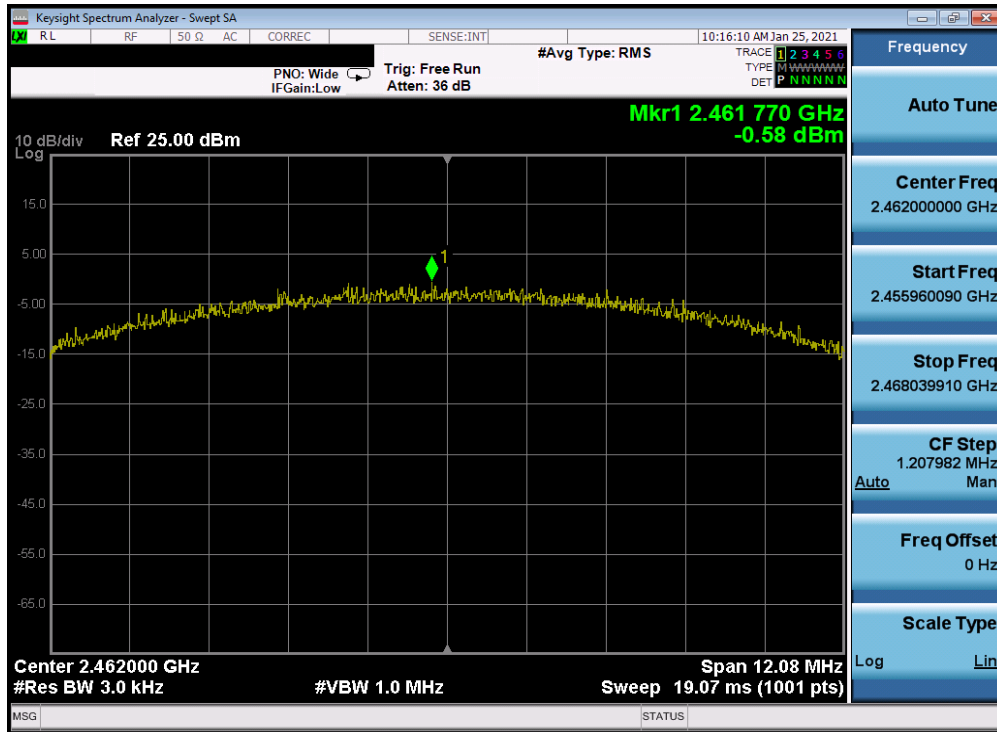


Plot 7-79. Power Spectral Density Plot Antenna 4a (802.11b – Ch. 1) – 11Mbps

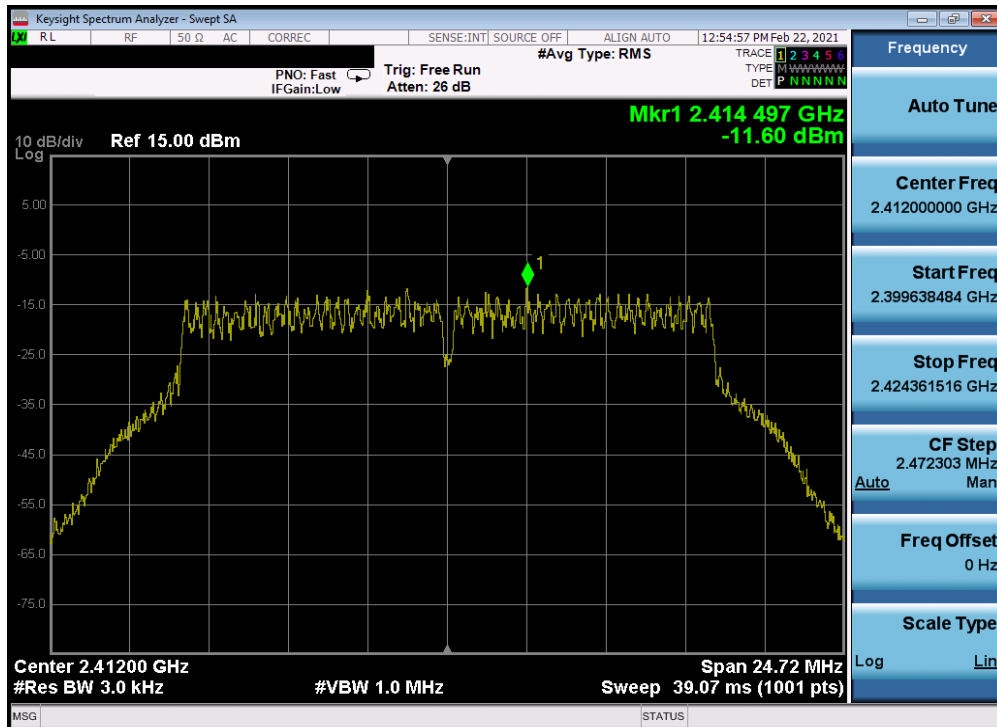


Plot 7-80. Power Spectral Density Plot Antenna 4a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 72 of 315

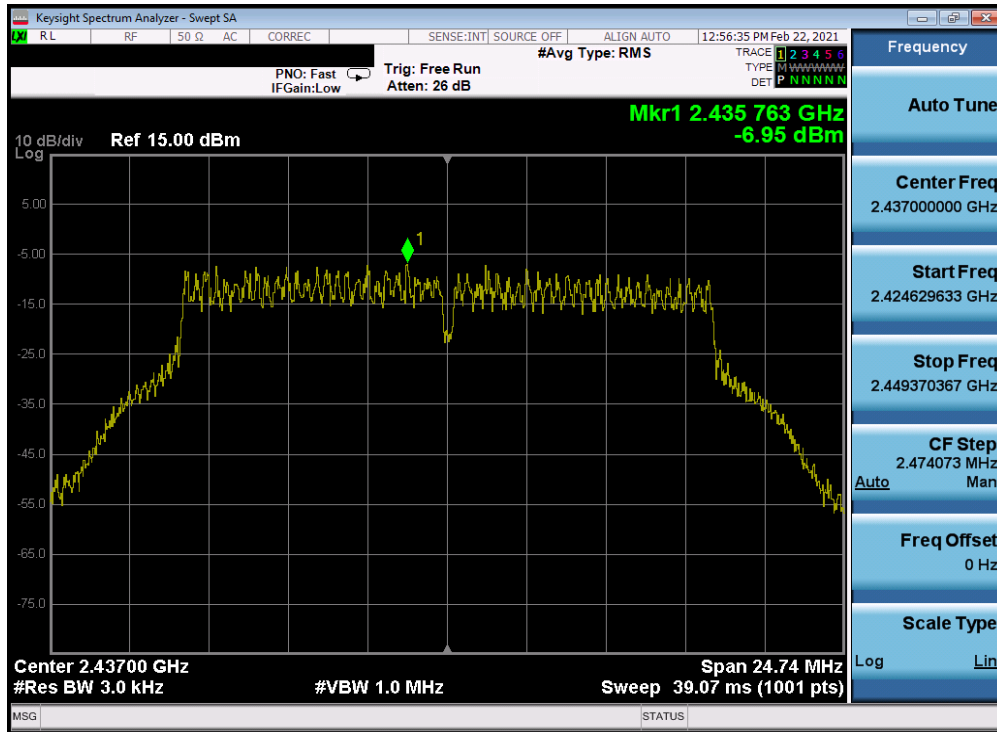


Plot 7-81. Power Spectral Density Plot Antenna 4a (802.11b – Ch. 11) – 11Mbps

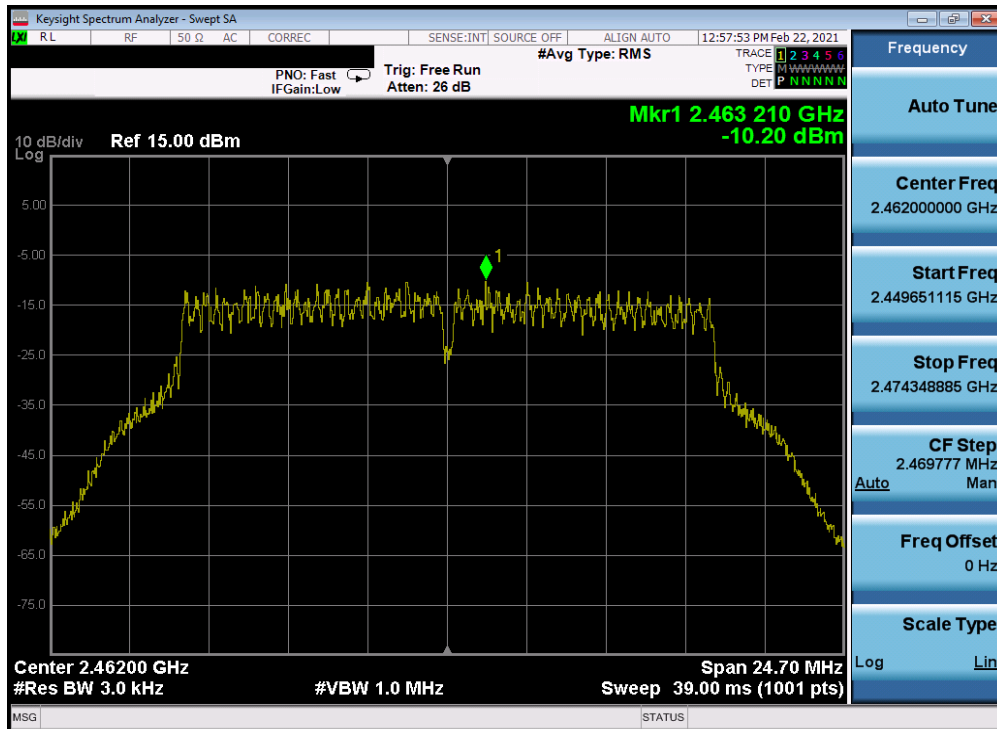


Plot 7-82. Power Spectral Density Plot Antenna 4a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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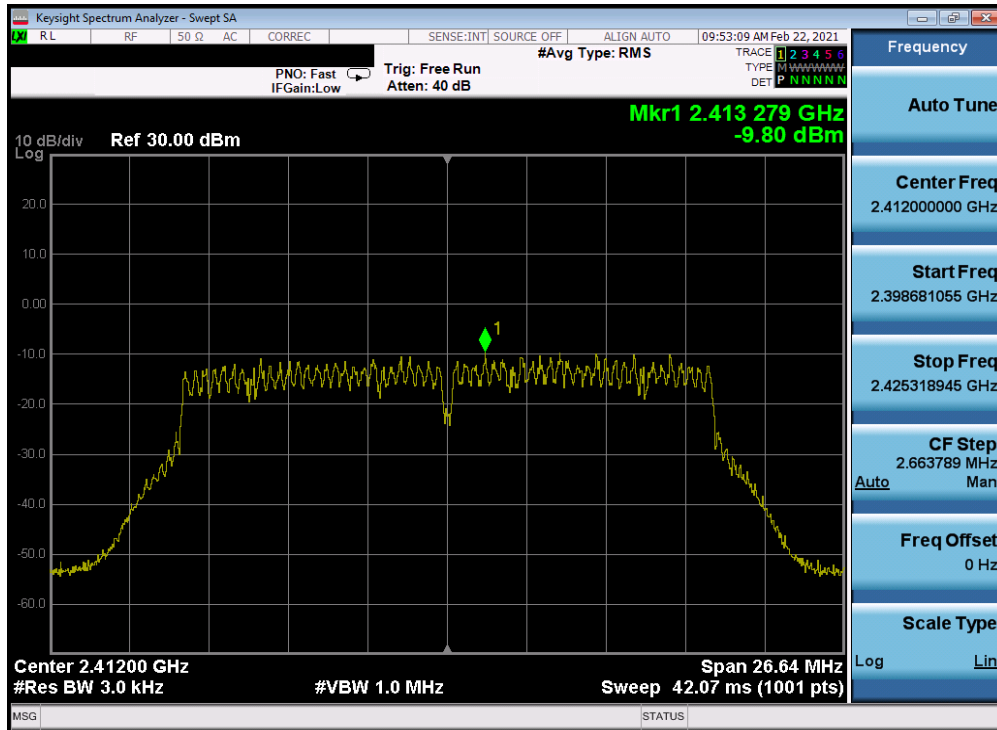


Plot 7-83. Power Spectral Density Plot Antenna 4a (802.11g - Ch. 6) - 54Mbps

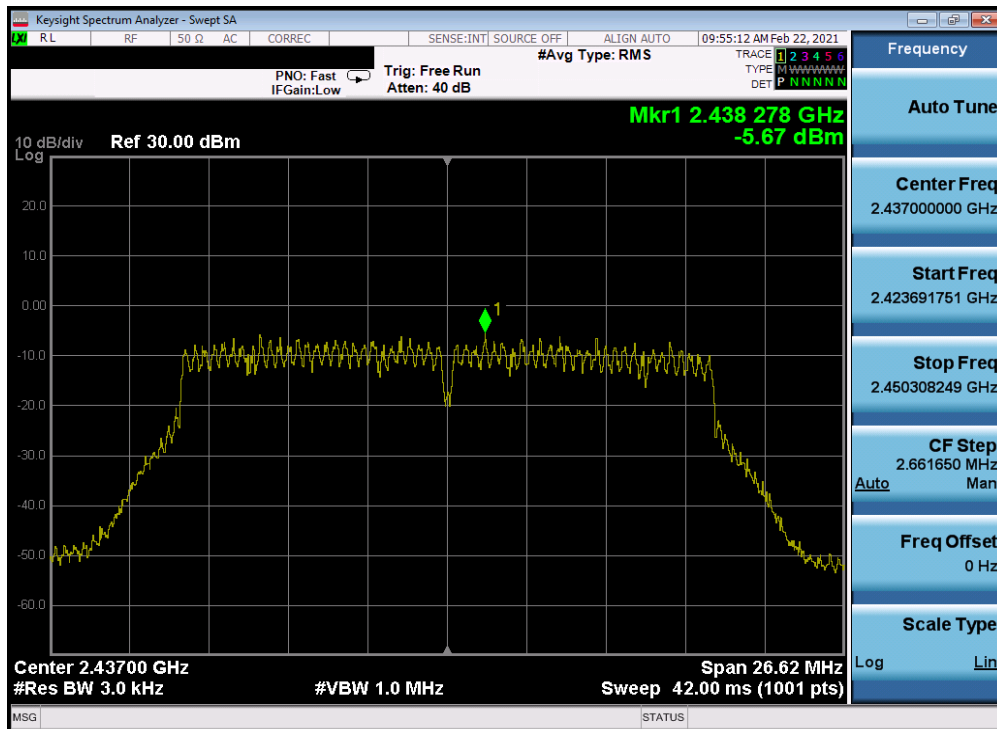


Plot 7-84. Power Spectral Density Plot Antenna 4a (802.11g - Ch. 11) - 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 74 of 315

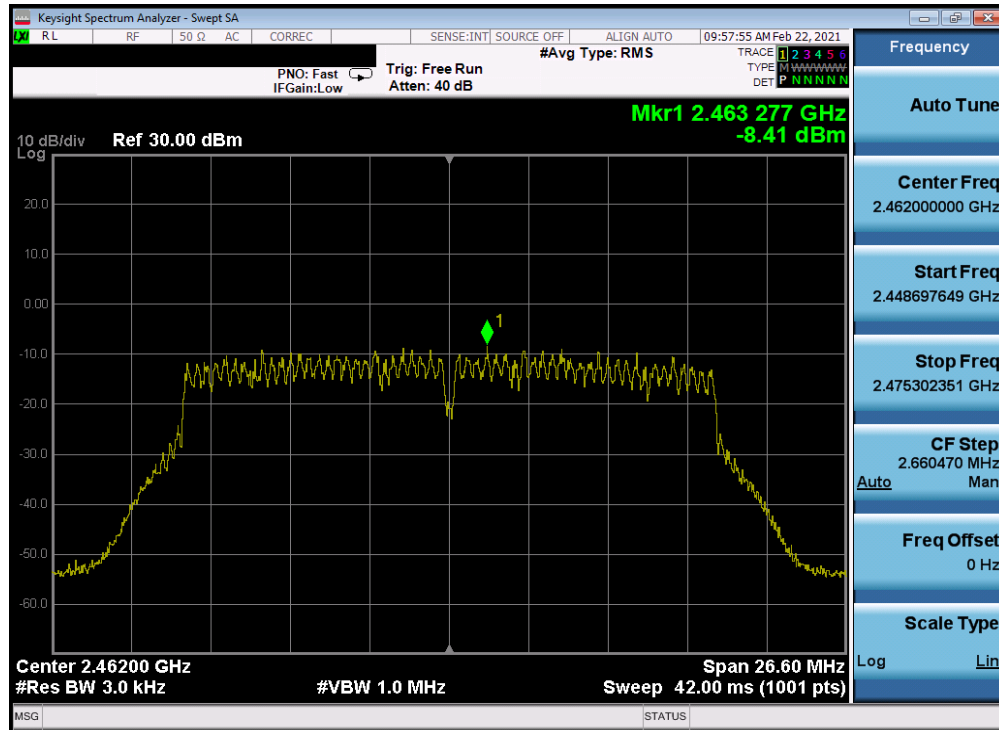


Plot 7-85. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 1) – MCS7

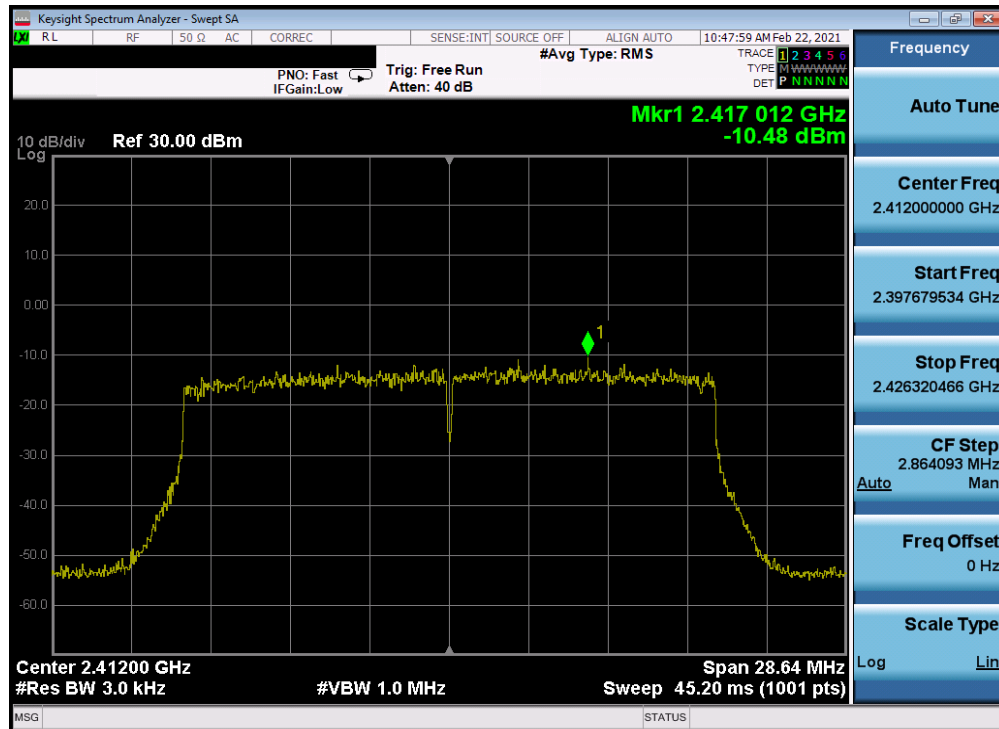


Plot 7-86. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 75 of 315

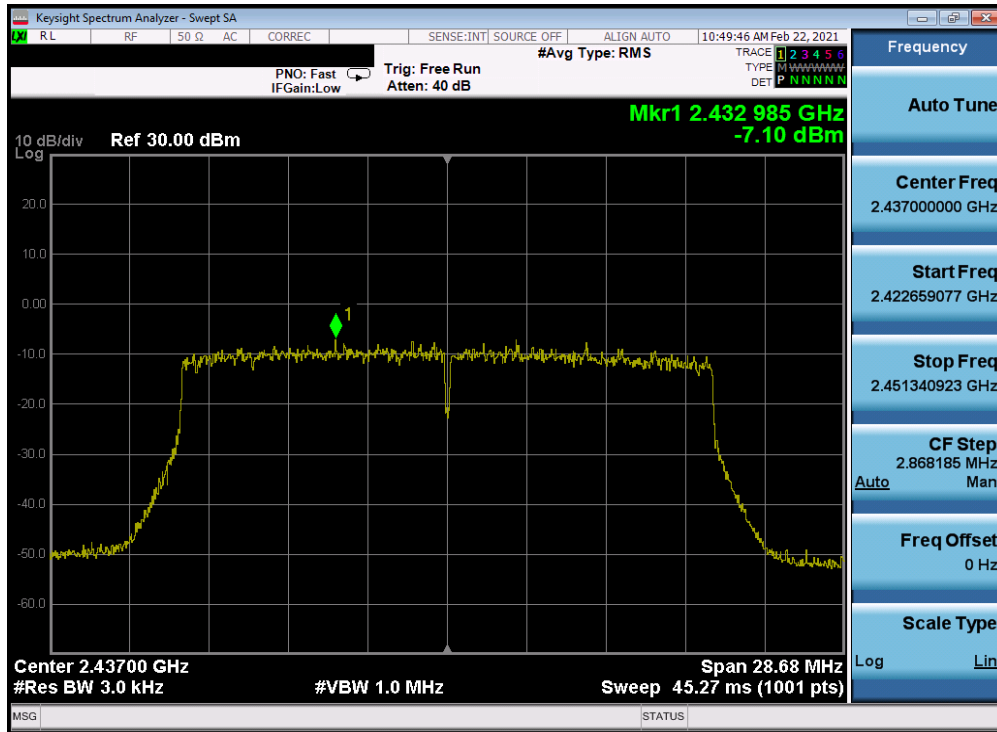


Plot 7-87. Power Spectral Density Plot Antenna 4a (802.11n (2.4GHz) – Ch. 11) – MCS7

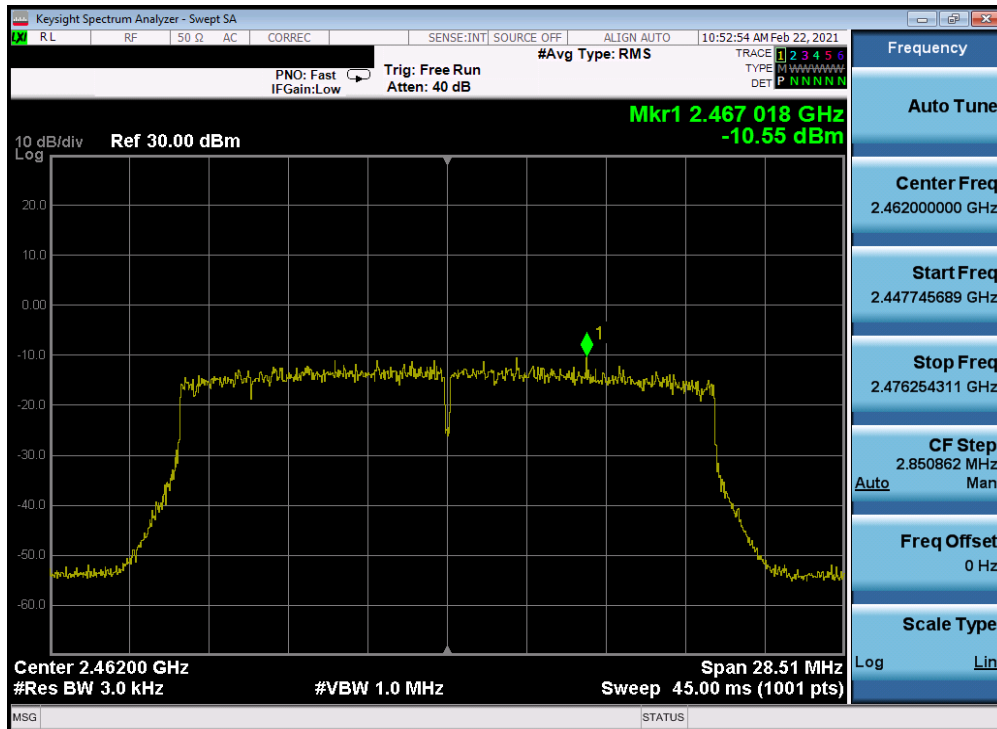


Plot 7-88. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 76 of 315



Plot 7-89. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-90. Power Spectral Density Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2379 IC: 579C-A2379	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 77 of 315

Antenna 2a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	6	-10.13	8.00	-18.13	Pass
2437	6	g	6	-5.21	8.00	-13.21	Pass
2462	11	g	6	-9.34	8.00	-17.34	Pass
2412	1	n	6.5/7.2 (MCS0)	-9.78	8.00	-17.78	Pass
2437	6	n	6.5/7.2 (MCS0)	-5.95	8.00	-13.95	Pass
2462	11	n	6.5/7.2 (MCS0)	-9.38	8.00	-17.38	Pass
2412	1	ax-SU	8/8.6 (MCS0)	-9.92	8.00	-17.92	Pass
2437	6	ax-SU	8/8.6 (MCS0)	-6.85	8.00	-14.85	Pass
2462	11	ax-SU	8/8.6 (MCS0)	-11.10	8.00	-19.10	Pass

Table 7-41. Conducted Power Density Measurements Antenna 2a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	18	-12.22	8.00	-20.22	Pass
2437	6	g	18	-6.21	8.00	-14.21	Pass
2462	11	g	18	-11.75	8.00	-19.75	Pass
2412	1	n	26/28.9 (MCS3)	-10.46	8.00	-18.46	Pass
2437	6	n	26/28.9 (MCS3)	-6.04	8.00	-14.04	Pass
2462	11	n	26/28.9 (MCS3)	-9.54	8.00	-17.54	Pass
2412	1	ax-SU	33/34.4 (MCS3)	-10.75	8.00	-18.75	Pass
2437	6	ax-SU	33/34.4 (MCS3)	-7.90	8.00	-15.90	Pass
2462	11	ax-SU	33/34.4 (MCS3)	-11.43	8.00	-19.43	Pass

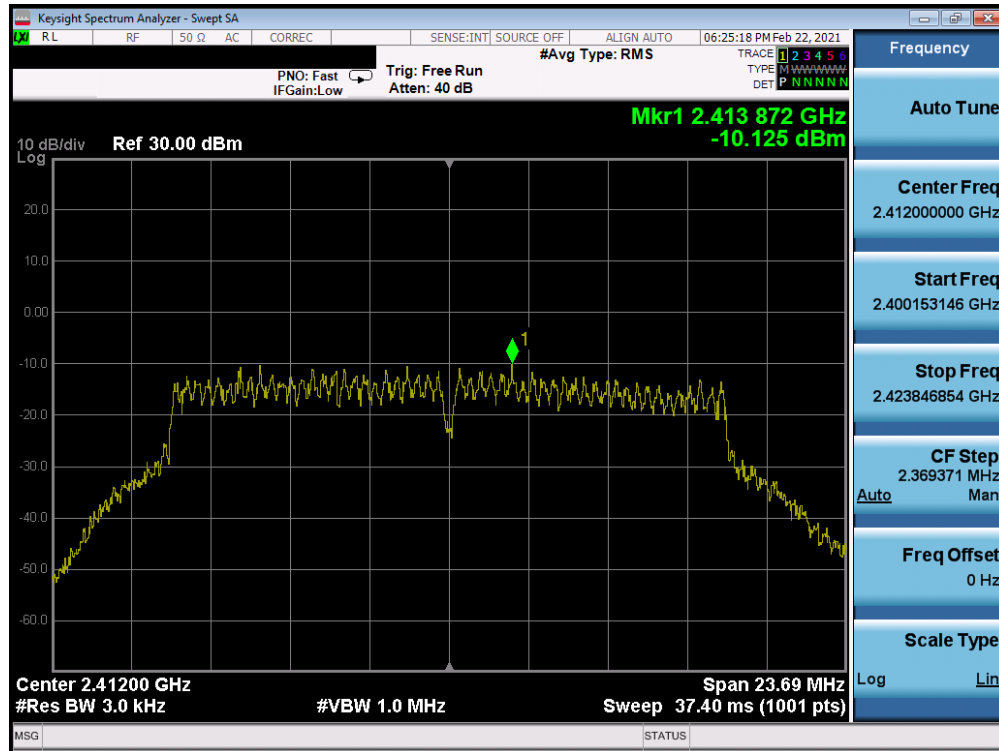
Table 7-42. Conducted Power Density Measurements Antenna 2a (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 78 of 315

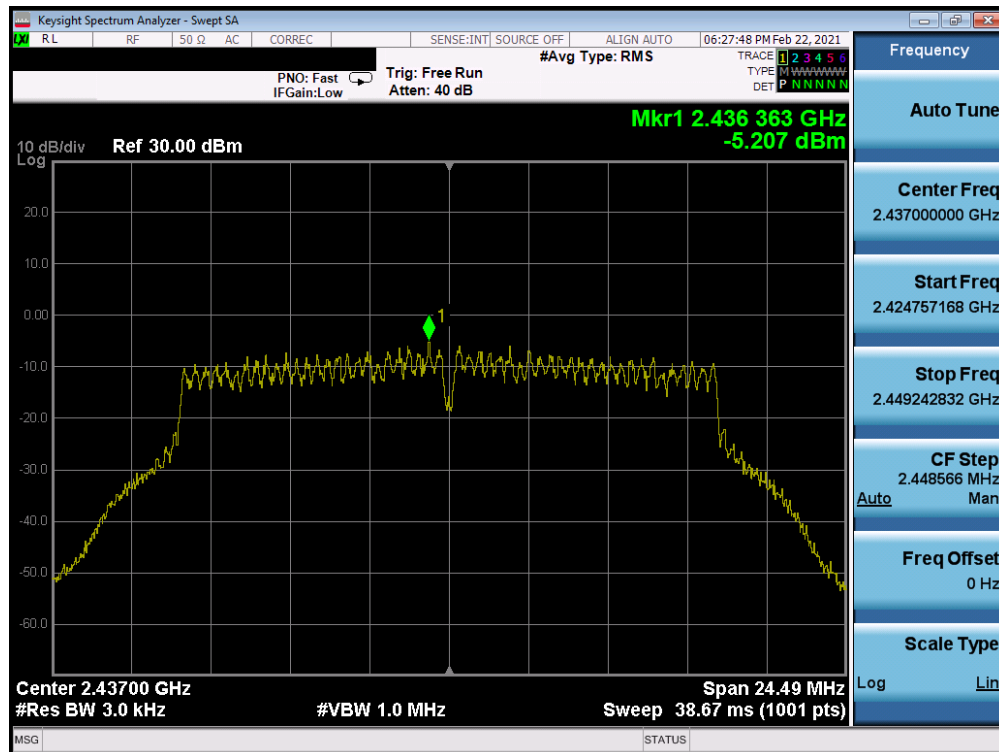
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	11	0.00	8.00	-8.00	Pass
2437	6	b	11	-0.20	8.00	-8.20	Pass
2462	11	b	11	-0.92	8.00	-8.92	Pass
2412	1	g	54	-12.55	8.00	-20.55	Pass
2437	6	g	54	-7.70	8.00	-15.70	Pass
2462	11	g	54	-11.67	8.00	-19.67	Pass
2412	1	n	65/72.2 (MCS7)	-11.00	8.00	-19.00	Pass
2437	6	n	65/72.2 (MCS7)	-6.21	8.00	-14.21	Pass
2462	11	n	65/72.2 (MCS7)	-10.50	8.00	-18.50	Pass
2412	1	ax-SU	65/68.8 (MCS5)	-12.15	8.00	-20.15	Pass
2437	6	ax-SU	65/68.8 (MCS5)	-7.93	8.00	-15.93	Pass
2462	11	ax-SU	65/68.8 (MCS5)	-11.98	8.00	-19.98	Pass

Table 7-43. Conducted Power Density Measurements Antenna 2a (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device
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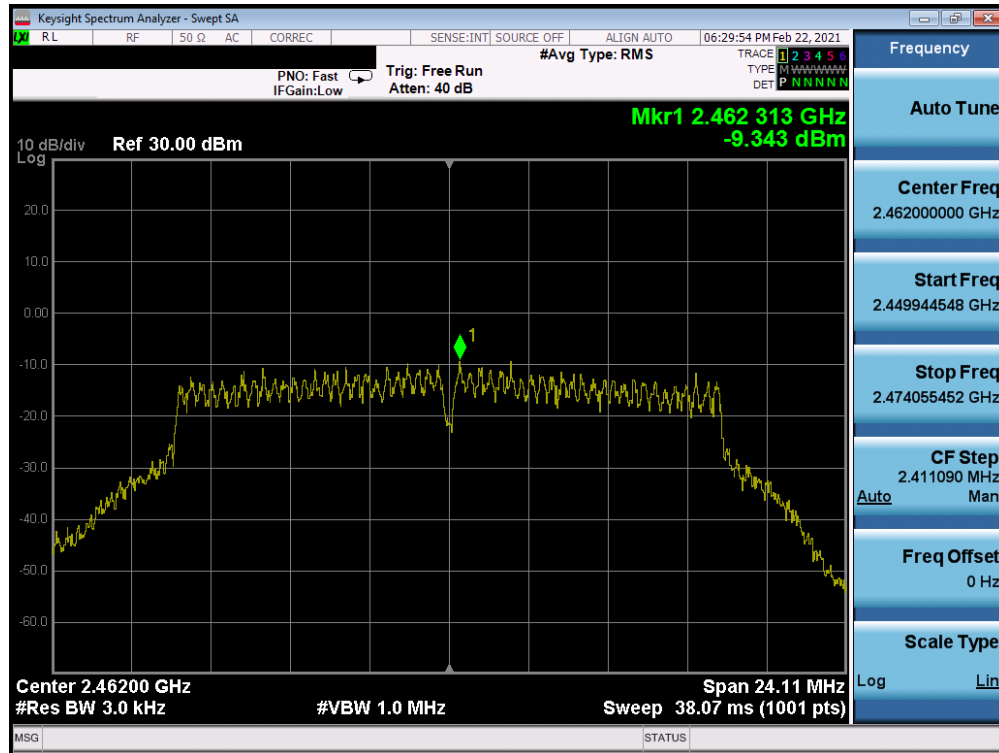


Plot 7-91. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 1) – 6Mbps

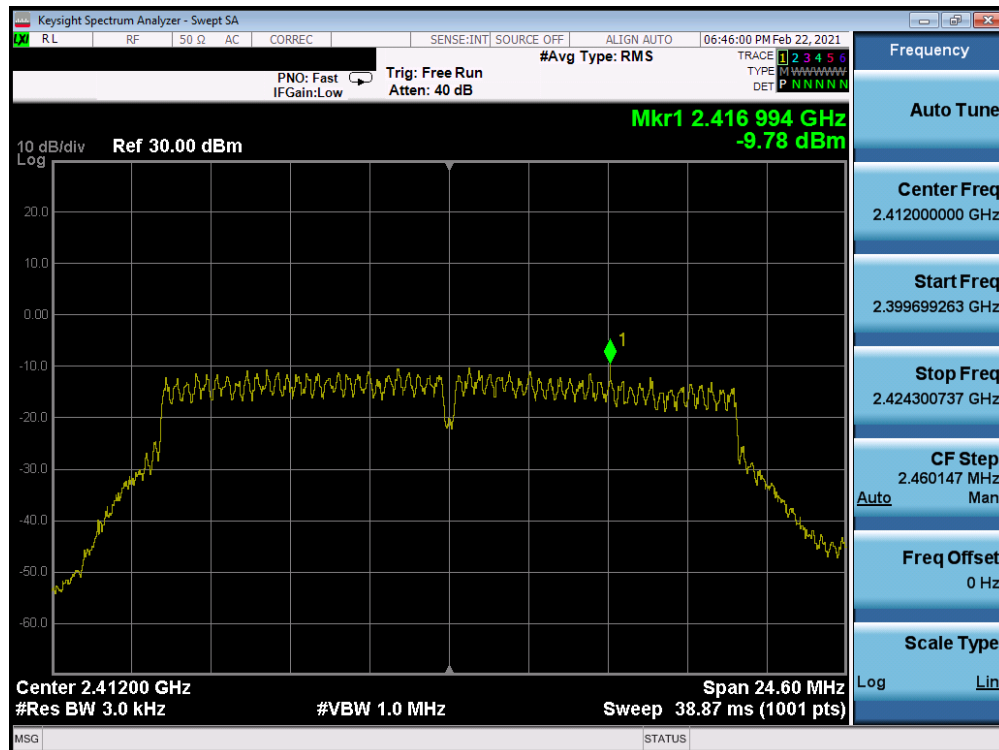


Plot 7-92. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 6) – 6Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 80 of 315

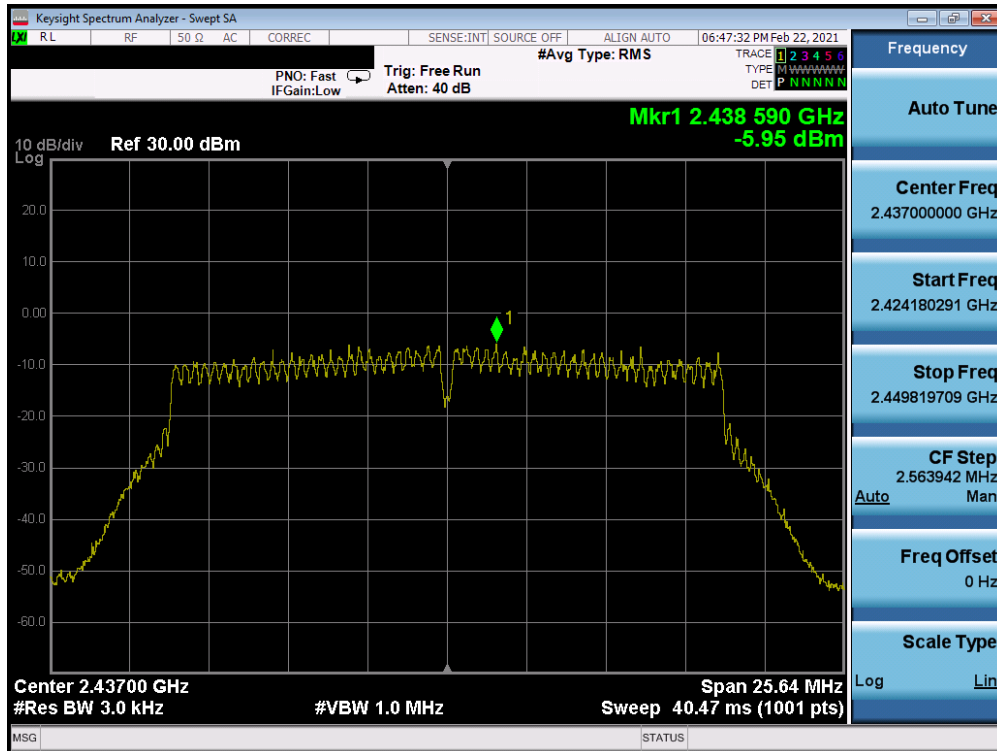


Plot 7-93. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 11) – 6Mbps

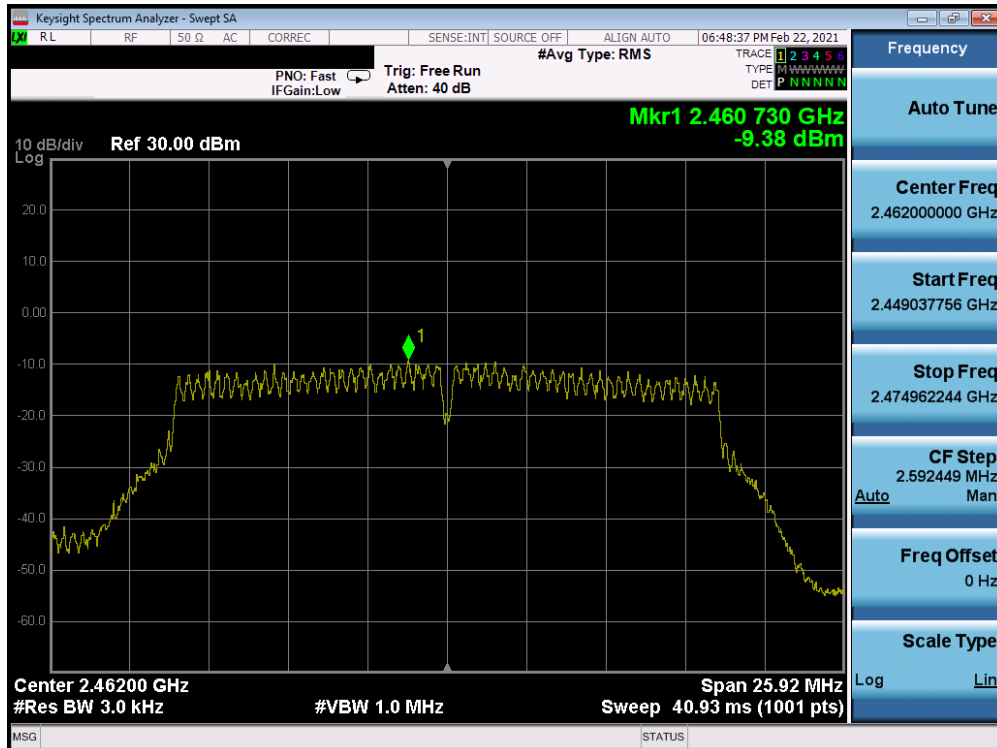


Plot 7-94. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 81 of 315

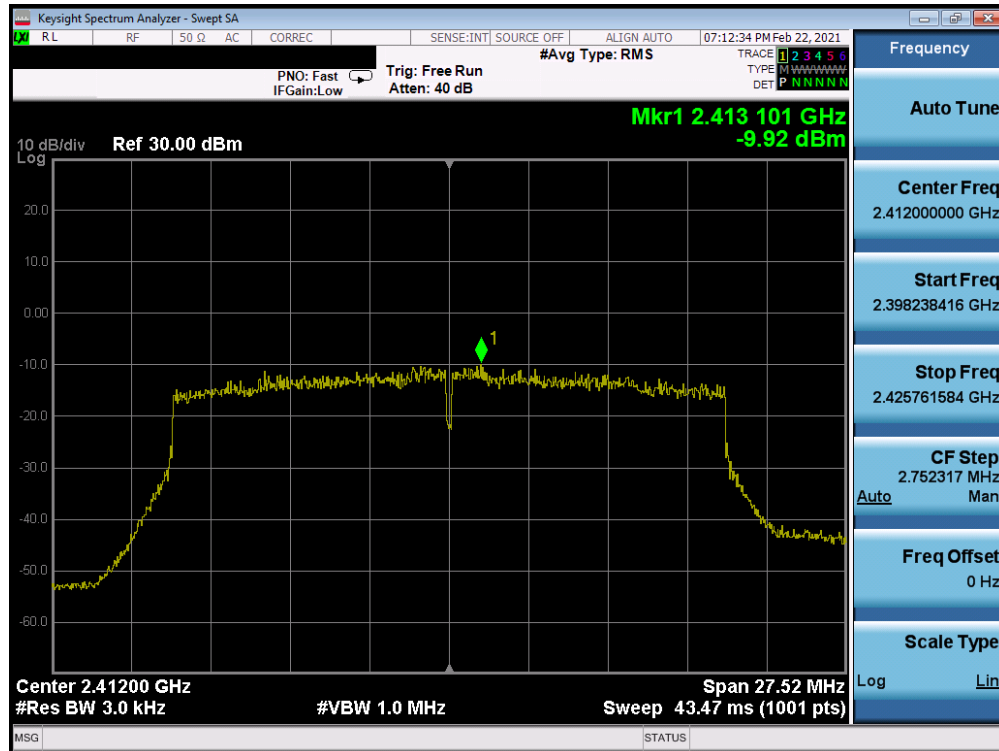


Plot 7-95. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS0

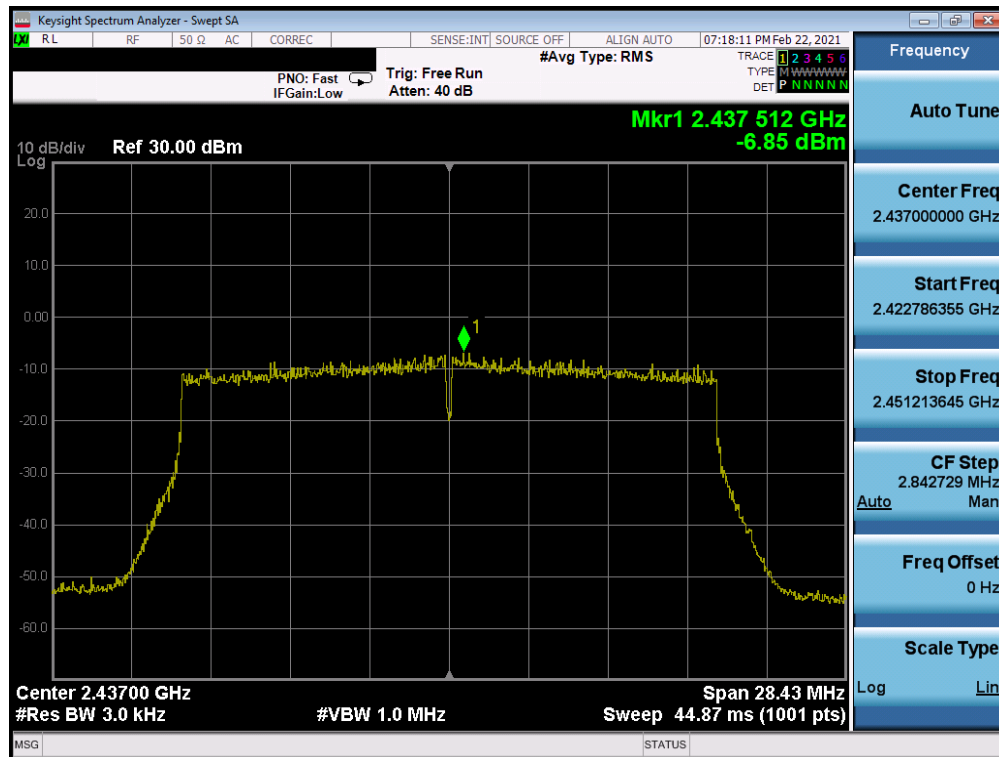


Plot 7-96. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 82 of 315

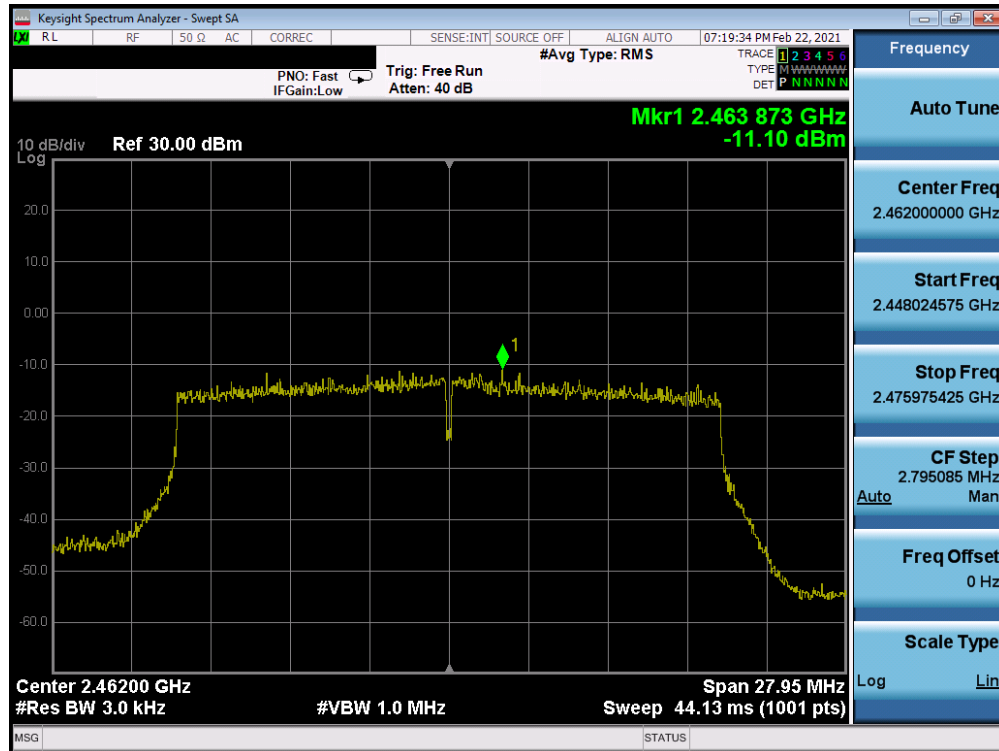


Plot 7-97. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0

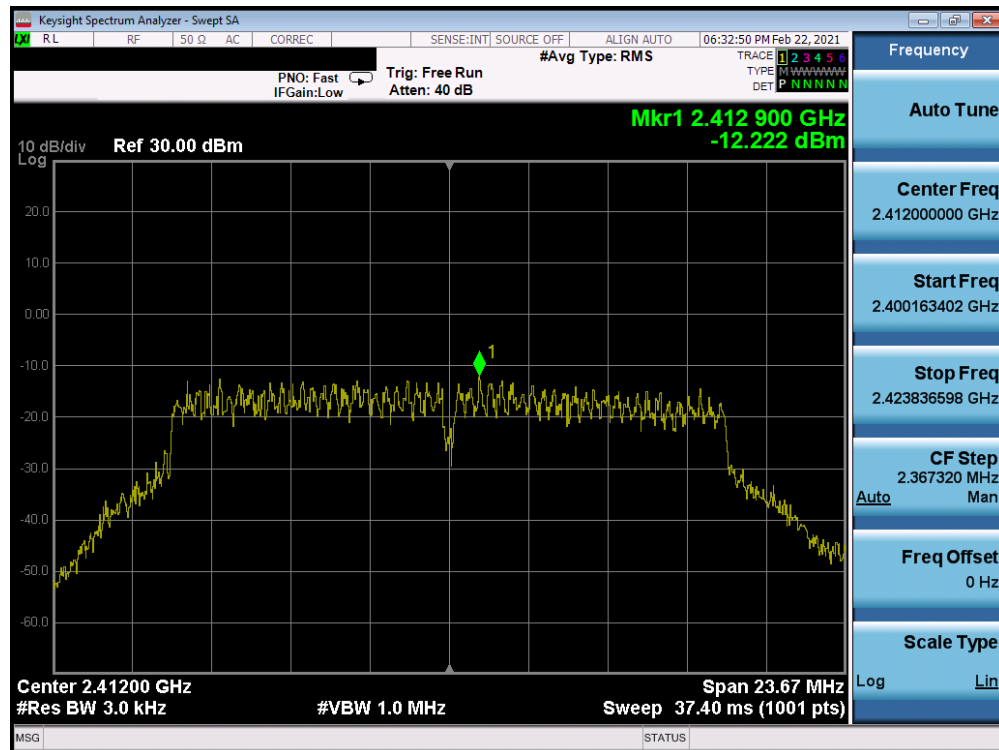


Plot 7-98. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS0

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 83 of 315

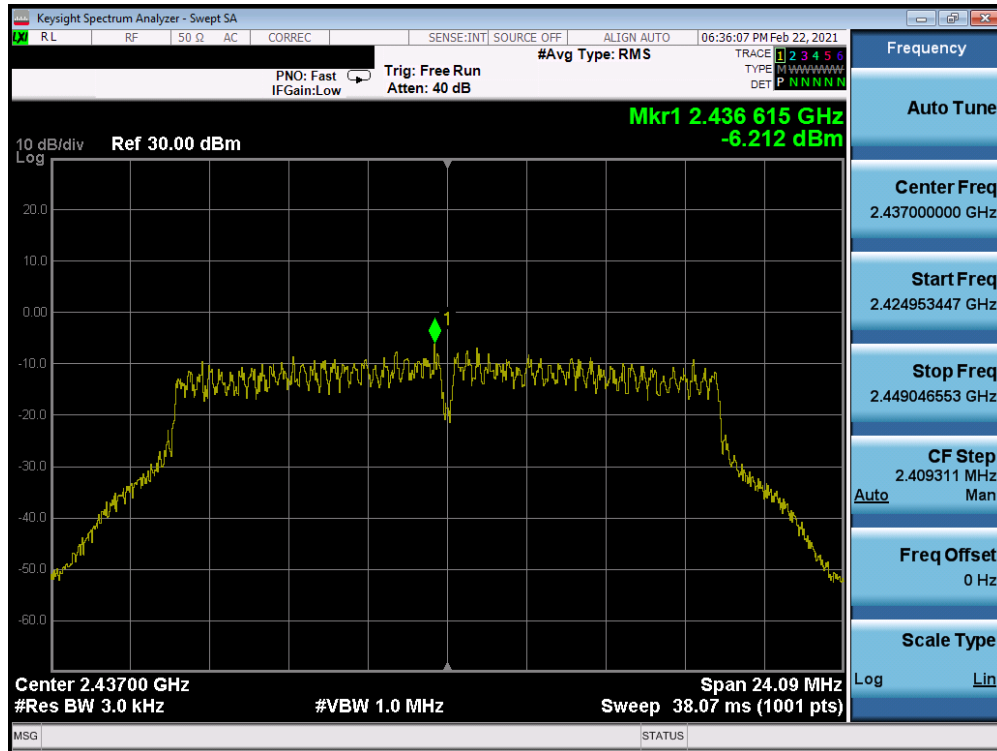


Plot 7-99. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0

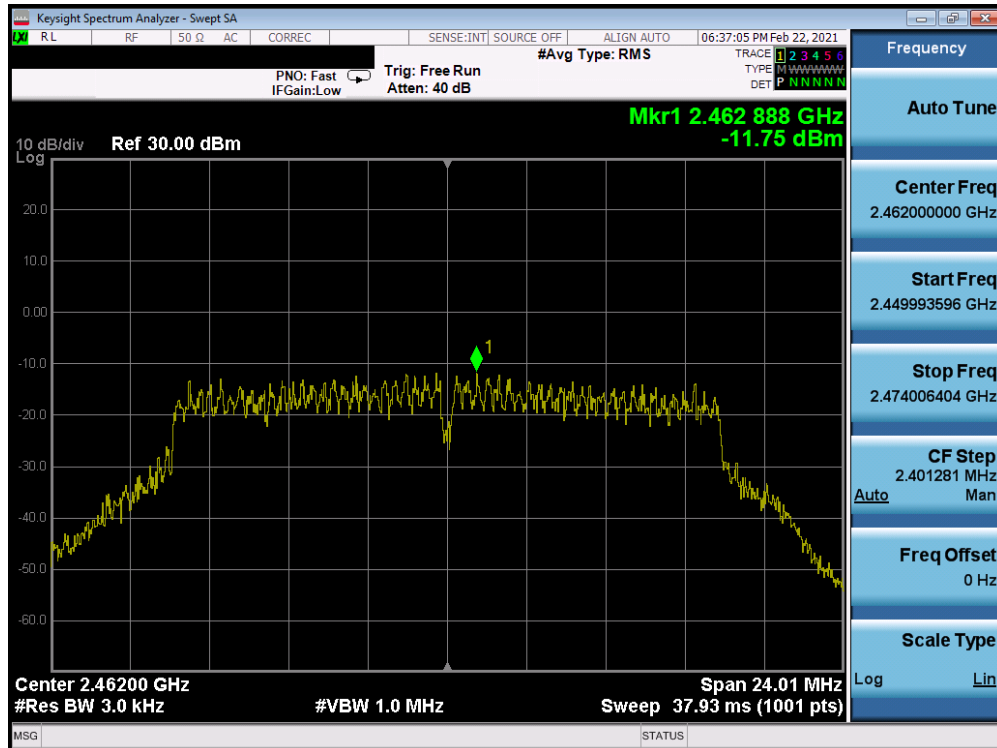


Plot 7-100. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 1) – 18Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 84 of 315



Plot 7-101. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 6) – 18Mbps

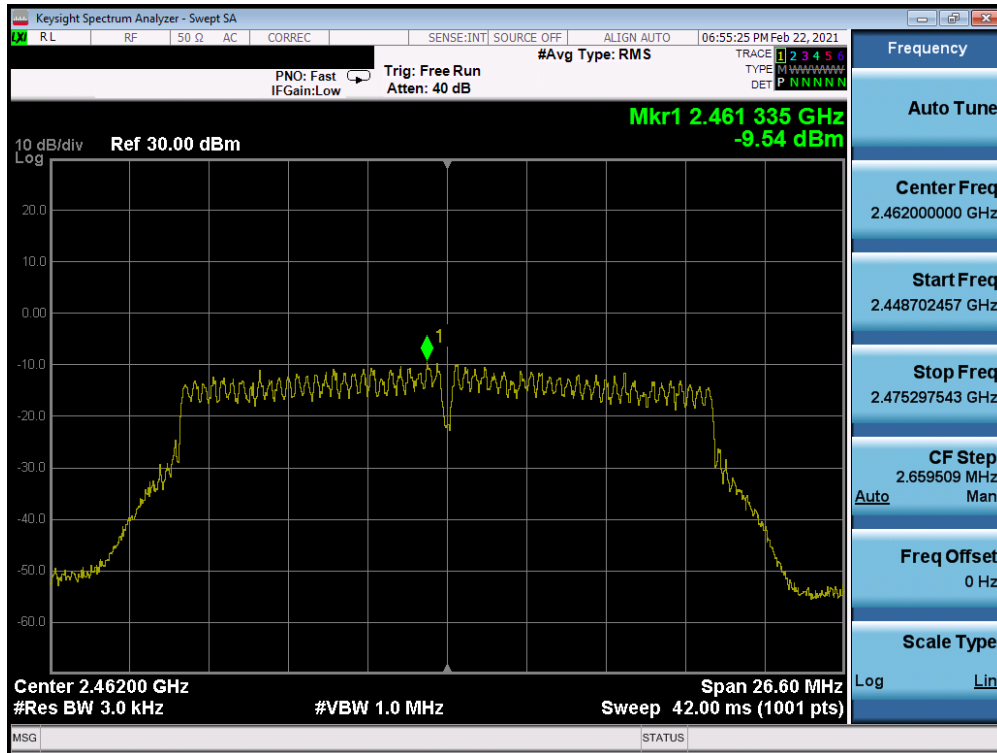


Plot 7-102. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 11) – 18Mbps

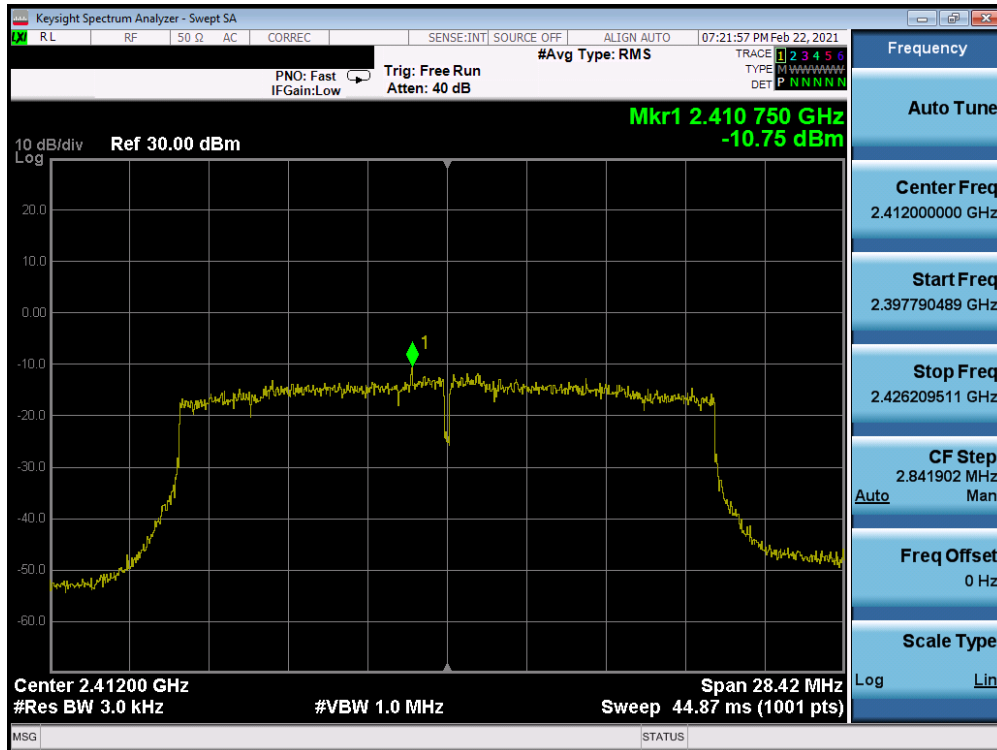
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 85 of 315



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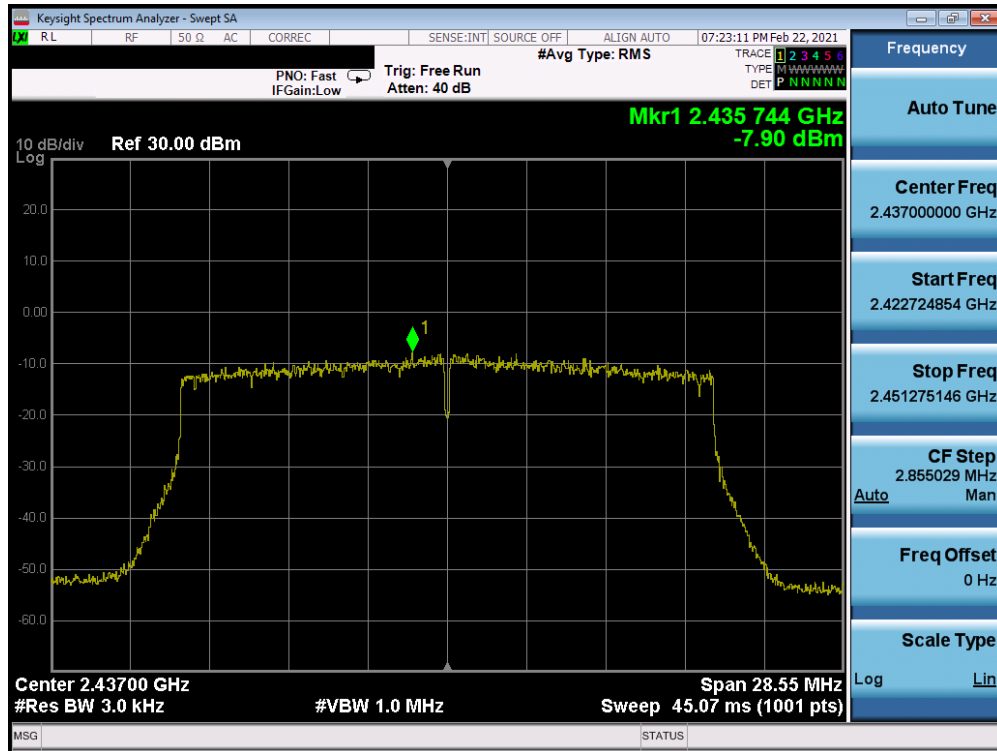


Plot 7-105. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS3

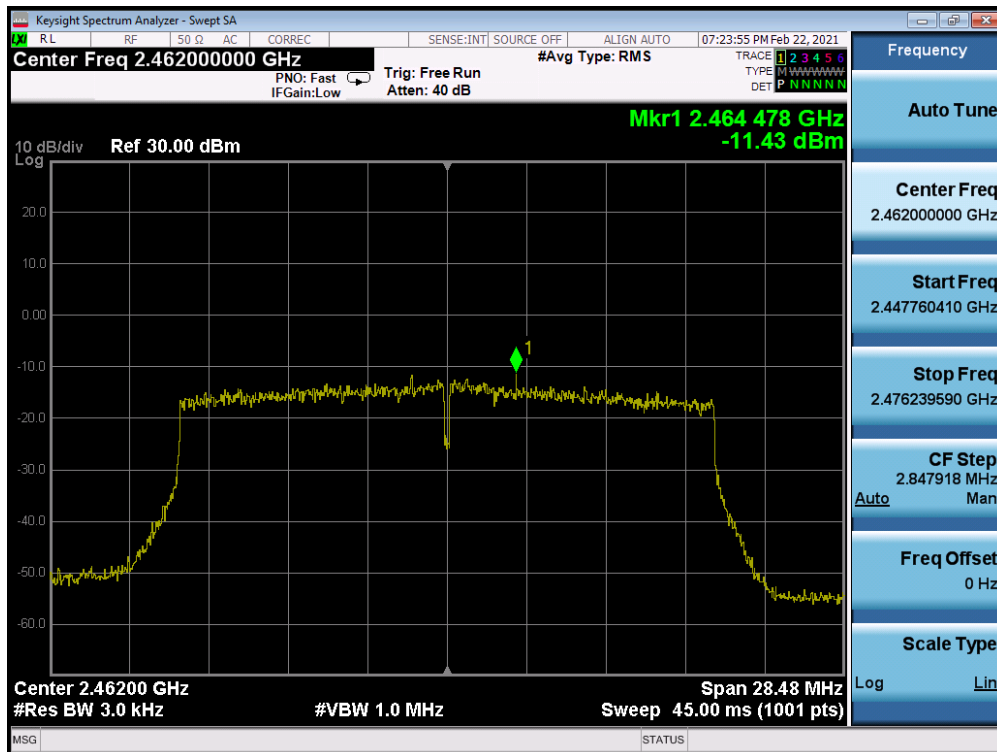


Plot 7-106. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 87 of 315

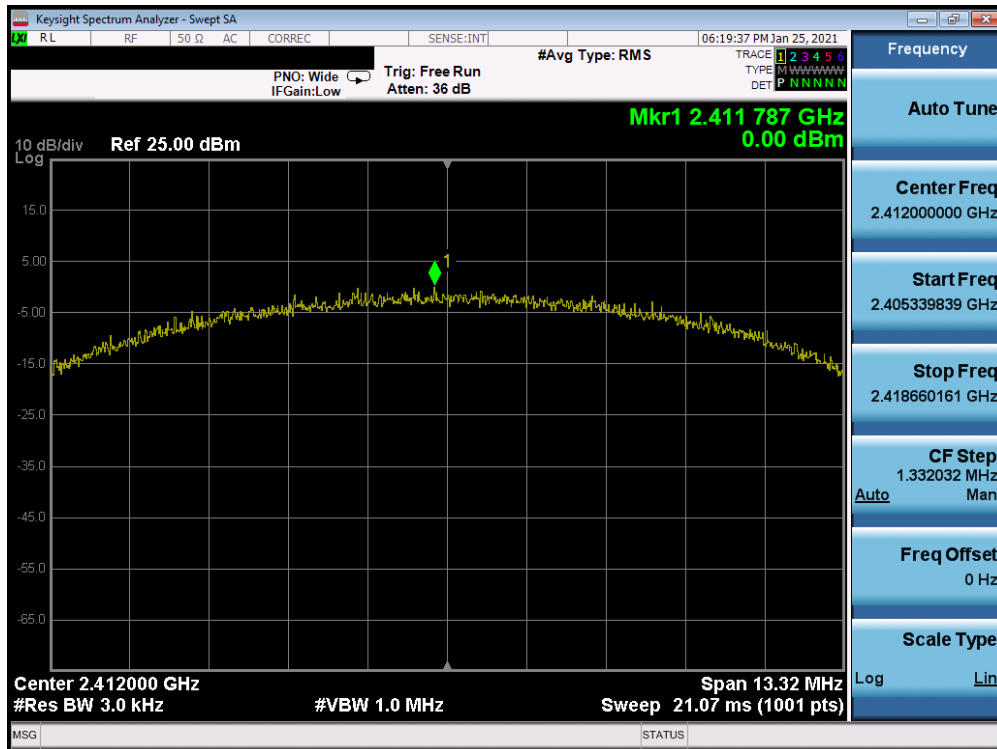


Plot 7-107. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS3

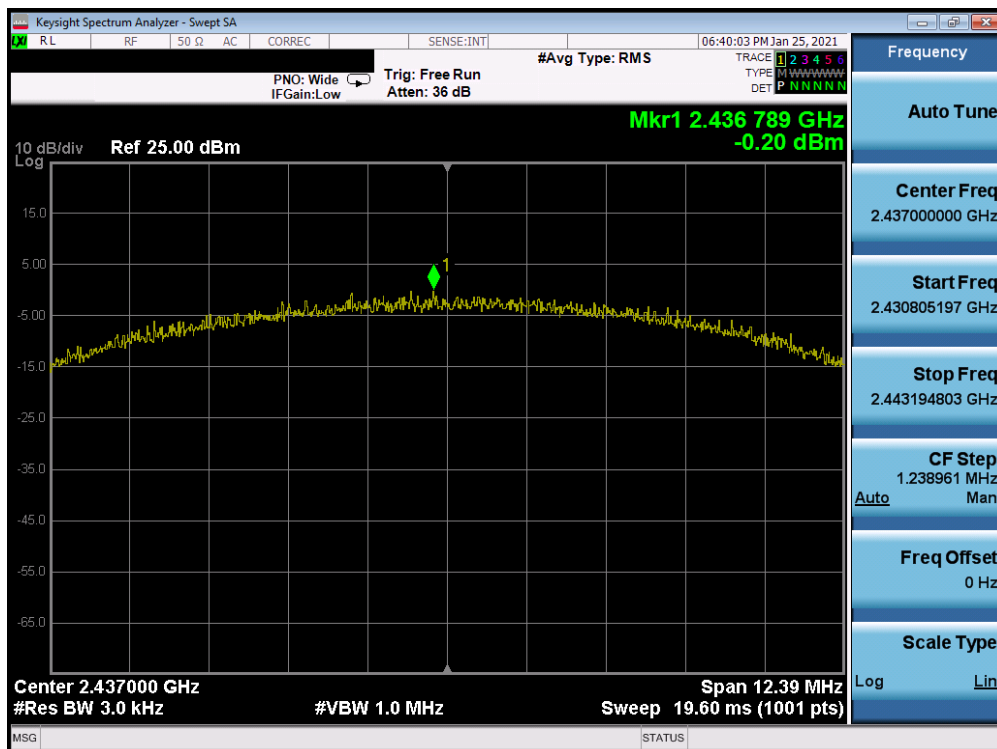


Plot 7-108. Power Spectral Density Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 88 of 315

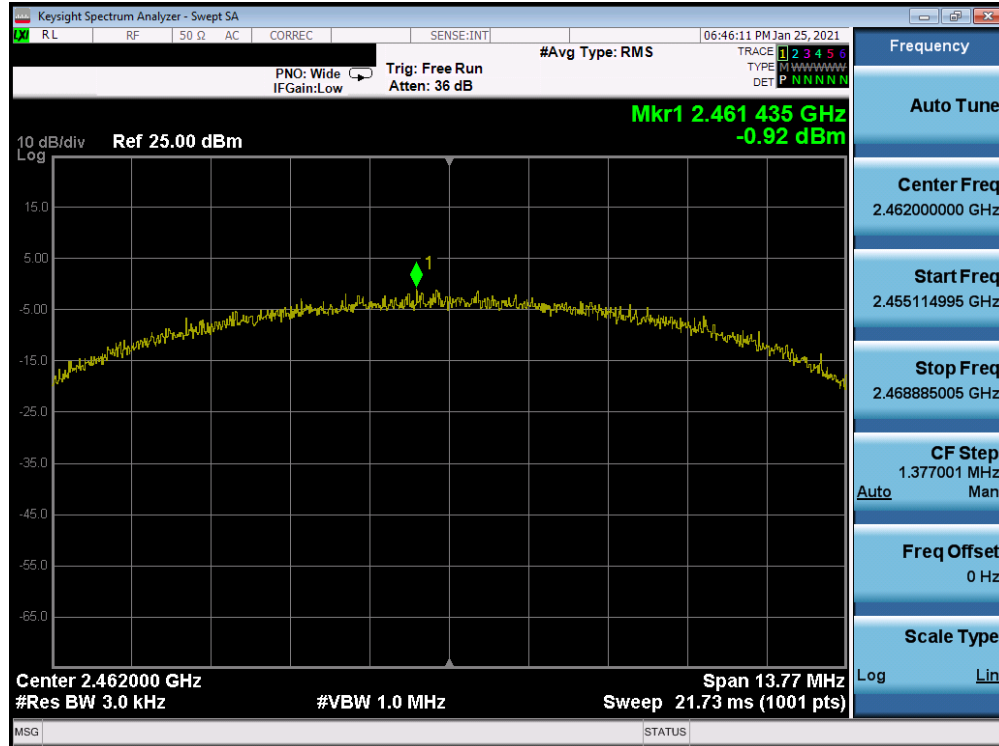


Plot 7-109. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 1) – 11Mbps

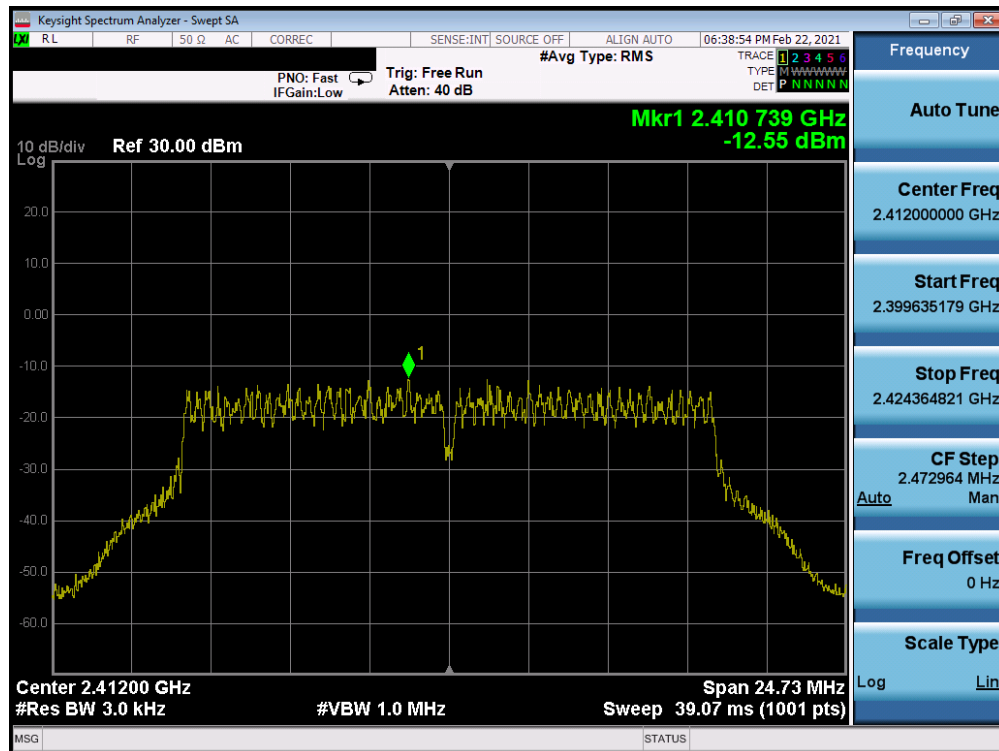


Plot 7-110. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 89 of 315

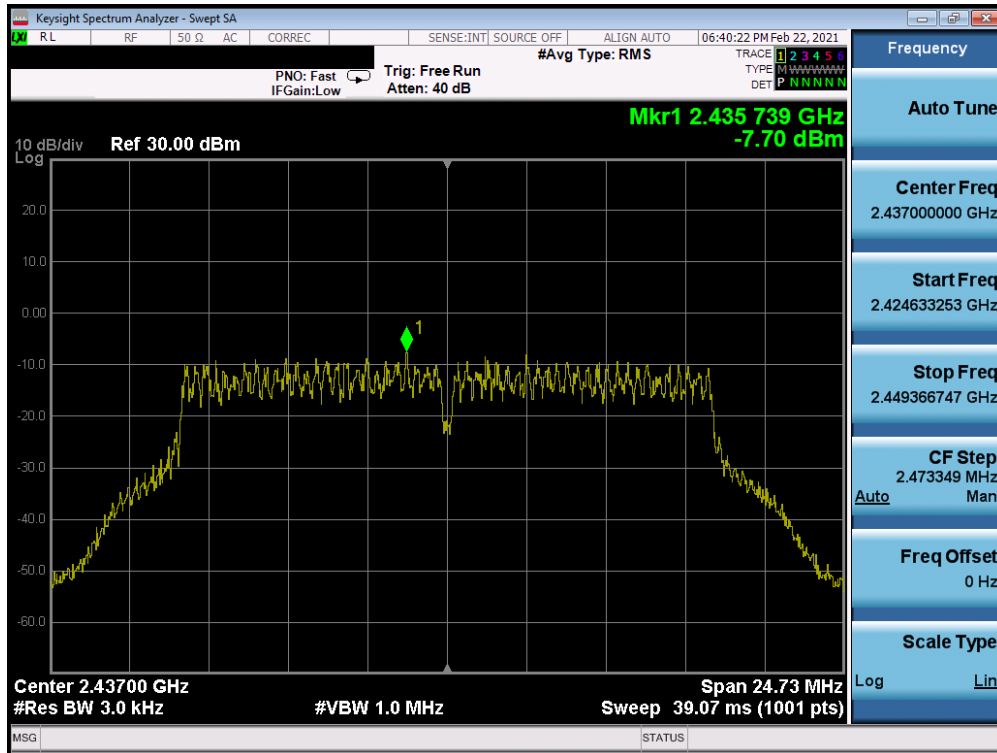


Plot 7-111. Power Spectral Density Plot Antenna 2a (802.11b – Ch. 11) – 11Mbps

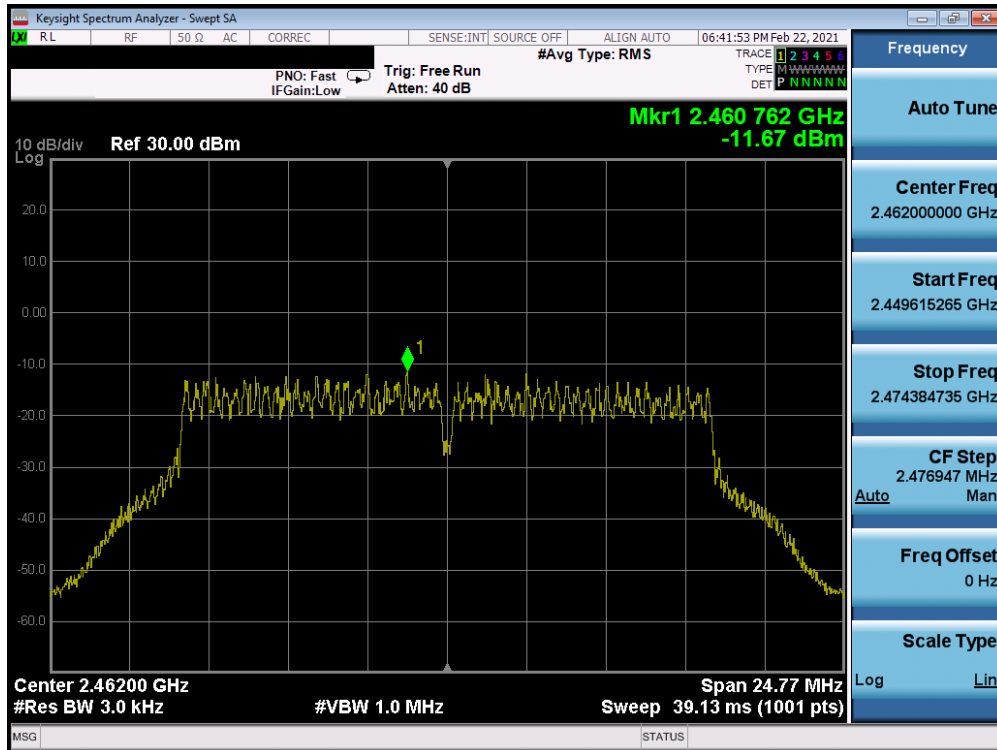


Plot 7-112. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 1) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 90 of 315

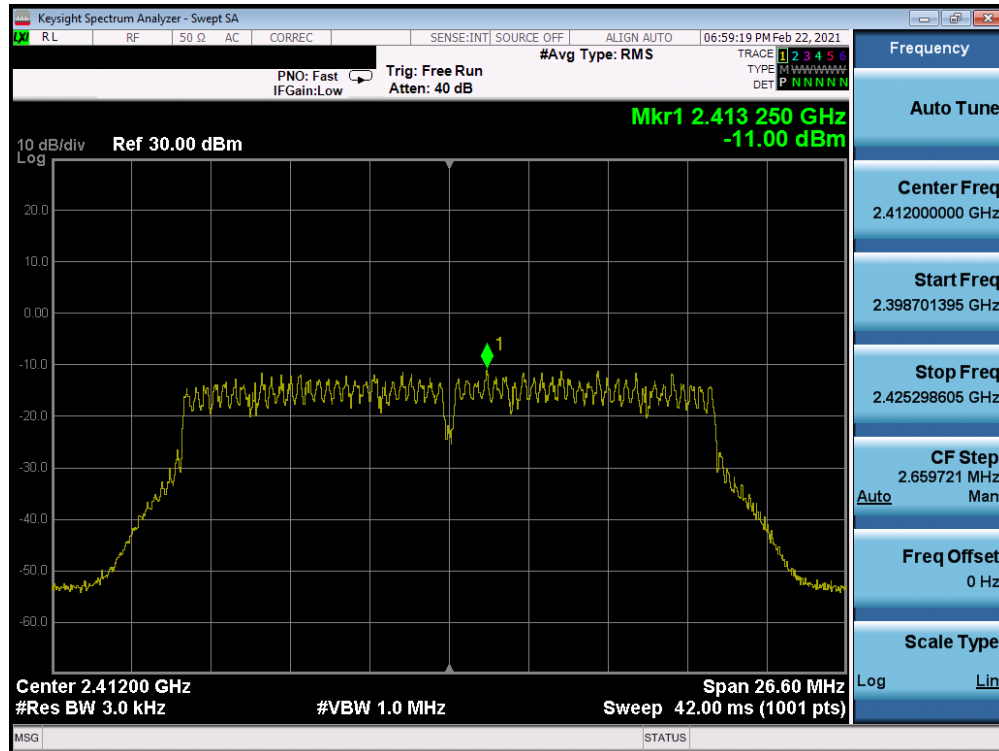


Plot 7-113. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 6) – 54Mbps

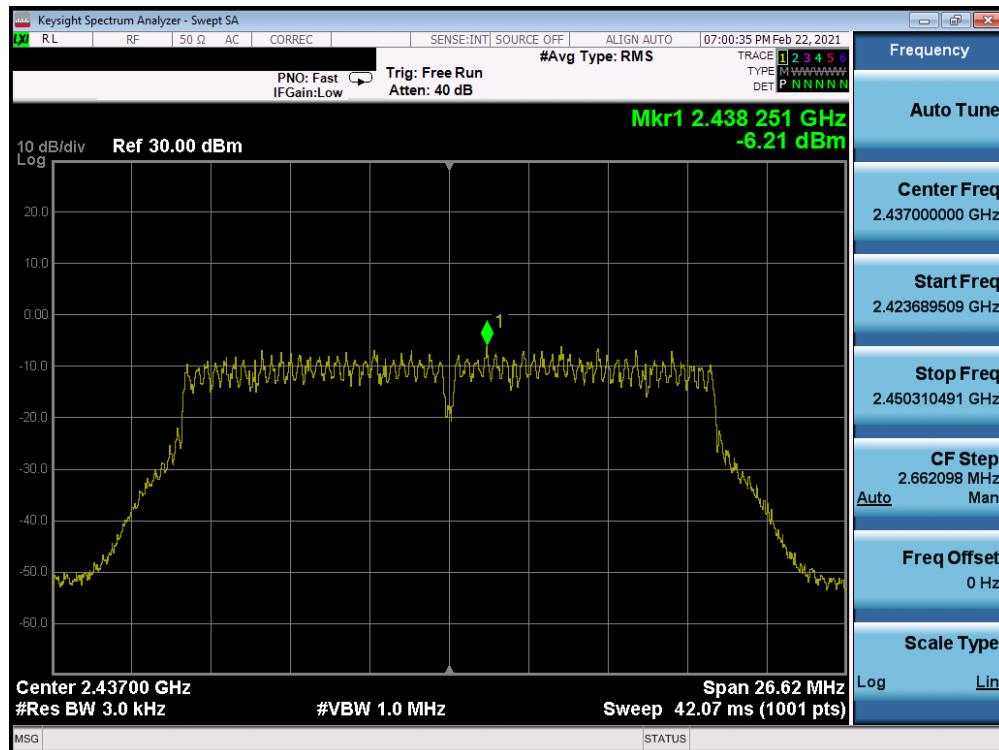


Plot 7-114. Power Spectral Density Plot Antenna 2a (802.11g – Ch. 11) – 54Mbps

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 91 of 315



Plot 7-115. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS7



Plot 7-116. Power Spectral Density Plot Antenna 2a (802.11n (2.4GHz) – Ch. 6) – MCS7

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-09-R1.BCG	Test Dates: 12/15/2020 - 2/20/2021	EUT Type: Tablet Device	Page 92 of 315