



Plot 7-110. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ax - Ch. 114, MCS4)



Plot 7-108. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 122, MCS4)



Plot 7-109. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac - Ch. 114, MCS4)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 45 of 200
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# **High Data Rate**

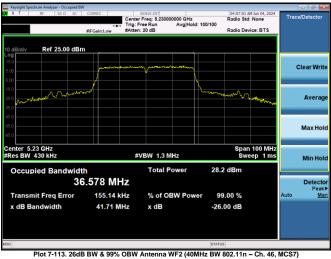


Keysight Spectrum Analyzer - Occupied BW R T RF 50 Ω AC	CORREC	SENSE:INT Center Freq: 5.23000000 Trig: Free Run A	ALIGN AUTO	01:38:19 AM Aug 28, 2024 Radio Std: None	Trace/Detector
	#IFGain:Low	#Atten: 20 dB	vginola: 100100	Radio Device: BTS	
0 dB/div Ref 25.00 dBm					
99 5.0 	purmont	marine and produced and an	mount		Clear Write
00 5.0 5.0 mmuhalm/lailler/lain/l			haven	handhalana	Averag
5.0					Max Hol
enter 5.23 GHz Res BW 620 kHz		#VBW 2.4 MHz		Span 100 MHz Sweep 1 ms	Min Hol
Occupied Bandwidt		Total Pow	ver 30.2	2 dBm	
	.084 MH				Detecto
Transmit Freq Error	10.013 ki			0.00 %	Auto <u>Mar</u>
x dB Bandwidth	60.94 MI	Hz x dB	-26.	00 dB	
3			STATU		

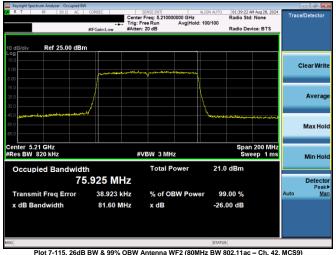
Plot 7-111. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n - Ch. 40, MCS7)

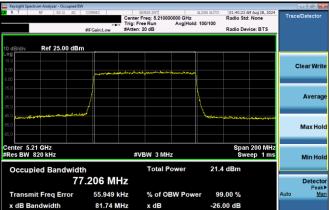


Plot 7-112, 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802,11ax(SU) - Ch. 40, MCS11)



Plot 7-114. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) - Ch. 46, MCS11)

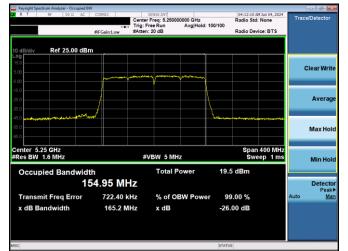




Plot 7-116. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 42, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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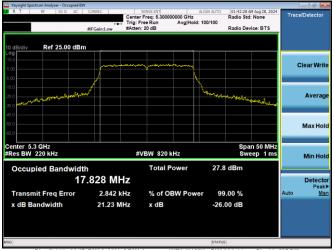




Plot 7-117. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac - Ch. 50, MCS9)

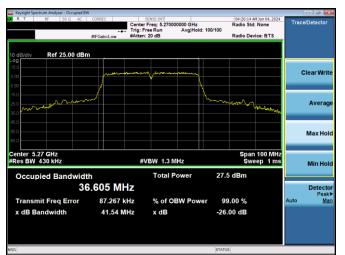


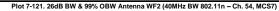
Plot 7-118. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac - Ch. 50, MCS11)

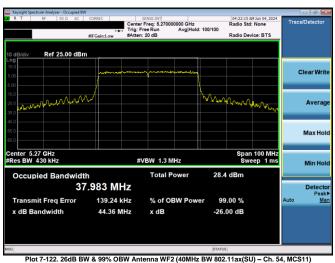


Plot 7-119. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n - Ch. 60, MCS7)

Plot 7-120. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) - Ch. 60, MCS11)

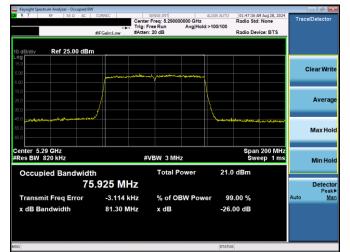


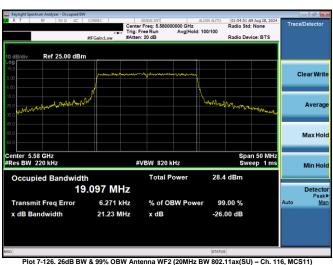




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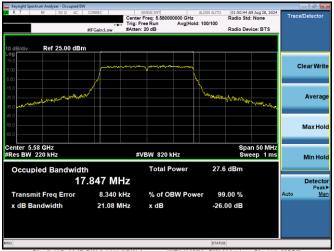


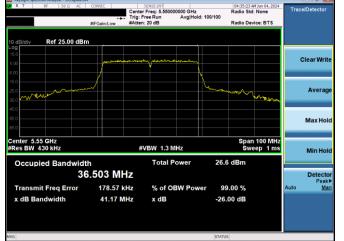


Plot 7-123. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac - Ch. 58, MCS9)

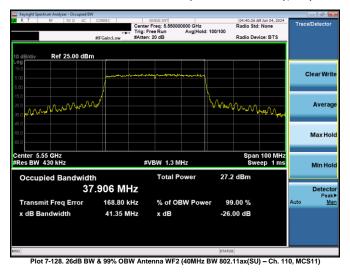


Plot 7-124. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 58, MCS11)





Trace/Detecto



Plot 7-127. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n - Ch. 110) , MCS7)

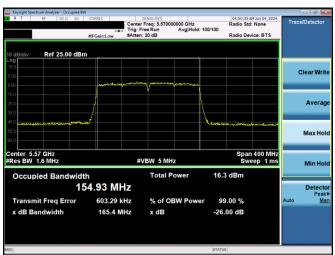
FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-125. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n - Ch. 116, MCS7)







Plot 7-129. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac - Ch. 122, MCS9)



Plot 7-130. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 122, MCS11)

Plot 7-131. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac - Ch. 114, MCS9)



Plot 7-132. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ax(SU) - Ch. 114, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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# 7.3 6dB & 99% Bandwidth Measurement §2.1049; §15.407 (e); RSS-Gen [6.7]

# **Test Overview and Limit**

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

# In the 5.725 – 5.850GHz band, the 6dB bandwidth must be $\geq$ 500 kHz.

# Test Procedure Used

ANSI C63.10-2020 – Section 12.5.1 KDB 789033 D02 v02r01 – Section C

# **Test Settings**

- The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. VBW <u>></u> 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple

#### Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

# Test Notes

- 1. All antenna configurations and data rates were investigated and only the worst case are reported.
- 2. The data rates have been classified into three different groups; Low Data Rate, middle rate, and High Data Rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is reported.
- 3. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel bandwidth plots have been reported.

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Test Report S/N:	Test Dates:	EUT Type:	Page 50 of 380
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# 7.3.1 WF5T 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.58	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.63	17.11	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.29	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.97	19.09	0.50	Pass
d 3	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	19.09	0.50	Pass
Band	5755	151	n (40MHz)	40/40.5 (MCS2)	36.01	36.06	0.50	Pass
_	5795	159	n (40MHz)	40/40.5 (MCS2)	36.02	35.80	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.84	38.22	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.82	38.20	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.58	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.02	77.94	0.50	Pass

# Table 7-8. Conducted Bandwidth Measurements Antenna WF5T (Low Data Rate)

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	39/43.3 (MCS4)	17.63	17.71	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.63	17.72	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.63	17.71	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.13	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.11	0.50	Pass
q 3	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
Ban	5755	151	n (40MHz)	81/90 (MCS4)	36.06	36.44	0.50	Pass
	5795	159	n (40MHz)	81/90 (MCS4)	36.11	36.46	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	37.81	38.20	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	37.83	38.23	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.34	76.17	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	77.09	78.11	0.50	Pass

Table 7-9. Conducted Bandwidth Measurements Antenna WF5T (Mid Data Rate)

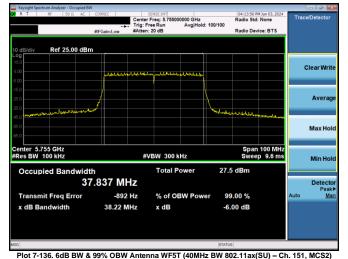
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	65/72.2 (MCS7)	17.70	17.78	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.71	17.78	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.70	17.77	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.13	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.13	0.50	Pass
d 3	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	18.99	19.13	0.50	Pass
Band	5755	151	n (40MHz)	135/150 (MCS7)	36.27	36.57	0.50	Pass
_	5795	159	n (40MHz)	135/150 (MCS7)	36.27	36.57	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	37.84	38.24	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.83	38.24	0.50	Pass
	5775	155	ac (80MHz)	390/433.3 (MCS9)	75.67	76.56	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	77.05	78.00	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna WF5T (High Data Rate)

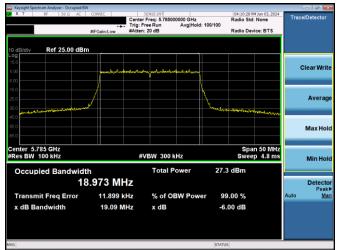
FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage E1 of 200
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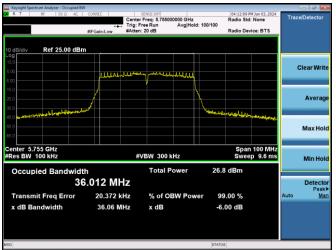




Plot 7-133. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n - Ch. 157, MCS2)

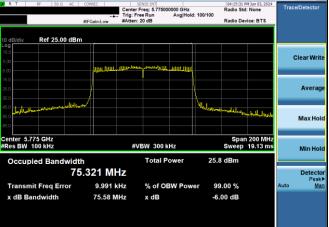




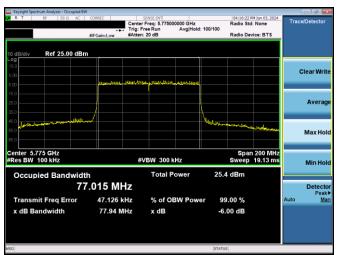




Keysight Spectrum Analyzer - Occupied BW







Plot 7-138. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) - Ch. 155, MCS2)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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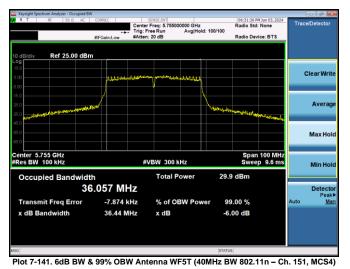


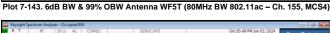


Plot 7-139. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n - Ch. 157, MCS4)



Plot 7-140. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11ax(SU) - Ch. 157, MCS4)



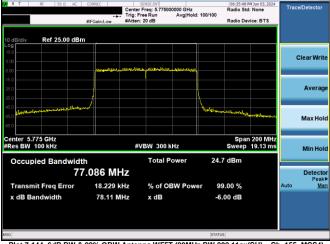


#VBW 300 kHz

x dB

Total Power

% of OBW Power



Plot 7-144. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) - Ch. 155, MCS4)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 52 of 280
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Plot 7-142. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11ax(SU) - Ch. 151, MCS4)

000 GHz Avg|Hold: 100/100

Center Freq: 5.7750 Trig: Free Run

20 dB

#FGain:Lo

75.338 MHz

5.529 kHz

76.17 MHz

Ref 25.00 dBm

enter 5.775 GHz Res BW 100 kHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

6:34:58 PM Jun 03, 203 dio Std: None

Radio Device: BTS

Span 200 MH Sweep 19.13 m

27.6 dBm

99.00 %

-6.00 dB

Trace/Detecto

Clear Writ

Averad

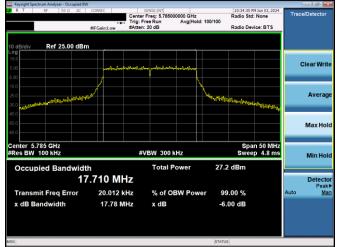
Max Hol

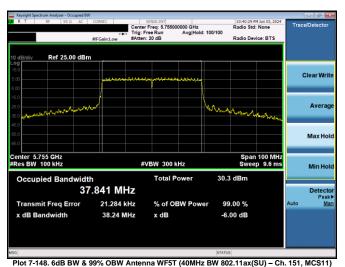
Min Hol

Detecto

Ma







Center Freq: 5.7750 Trig: Free Run #Atten: 20 dB

#FGain:Lo

75.672 MHz

56.731 kHz

76.56 MHz

Ref 25.00 dBm

000 GHz Avg|Hold: 100/100

10:42:09 PM Jun 03, 202 Radio Std: None

Radio Device: BTS

Span 200 MH Sweep 19.13 m

24.6 dBm

99.00 %

-6.00 dB

Trace/Detecto

Clear Writ

Averad

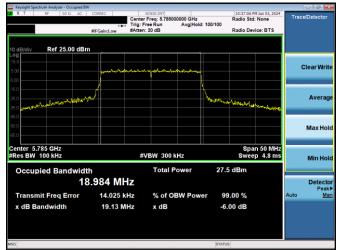
Max Hol

Min Hol

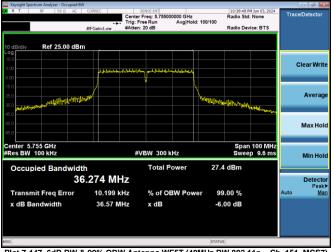
Detecto

Ma

Plot 7-145. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n - Ch. 157, MCS7)



Plot 7-146. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11ax(SU) - Ch. 157, MCS11)



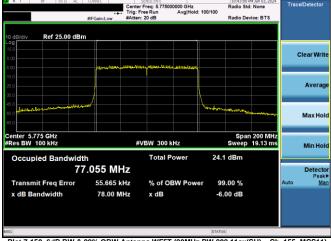
10:43:00 PM Jun 03, 2024 Radio Std: None Trace/Dete

#VBW 300 kHz

x dB

Total Power

% of OBW Power



Plot 7-150. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) - Ch. 155, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-149, 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802,11ac - Ch, 155, MCS9)

Center 5.775 GHz Res BW 100 kHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

Plot 7-147. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11n - Ch. 151, MCS7)

<sup>10.6 10/27/2</sup> 



# 7.3.2 WF2 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.00	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.28	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.27	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
d 3	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.05	0.50	Pass
Band	5755	151	n (40MHz)	40/40.5 (MCS2)	36.06	36.07	0.50	Pass
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.04	36.08	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	38.18	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	38.17	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.63	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.05	77.89	0.50	Pass

# Table 7-11. Conducted Bandwidth Measurements Antenna WF2 (Low Data Rate)

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	39/43.3 (MCS4)	17.63	17.70	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.64	17.69	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.64	17.68	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
d 3	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.11	0.50	Pass
Band	5755	151	n (40MHz)	81/90 (MCS4)	36.09	36.19	0.50	Pass
_	5795	159	n (40MHz)	81/90 (MCS4)	36.16	36.48	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	37.82	38.20	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	37.85	38.25	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.34	76.29	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	76.96	77.98	0.50	Pass

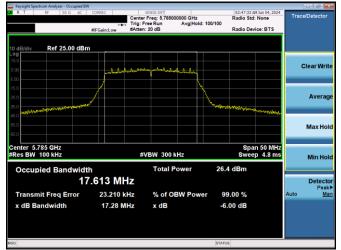
Table 7-12. Conducted Bandwidth Measurements Antenna WF2 (Mid Data Rate)

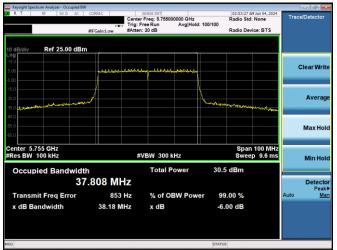
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	n (20MHz)	65/72.2 (MCS7)	17.71	17.77	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.71	17.78	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.71	17.77	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	18.99	19.11	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.12	0.50	Pass
d 3	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	19.00	19.12	0.50	Pass
Band	5755	151	n (40MHz)	135/150 (MCS7)	36.32	36.59	0.50	Pass
	5795	159	n (40MHz)	135/150 (MCS7)	36.30	36.56	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	37.84	38.18	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.85	38.24	0.50	Pass
	5775	155	ac (80MHz)	390/433.3 (MCS9)	75.60	76.50	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	77.02	77.97	0.50	Pass

 Table 7-13. Conducted Bandwidth Measurements Antenna WF2 (High Data Rate)

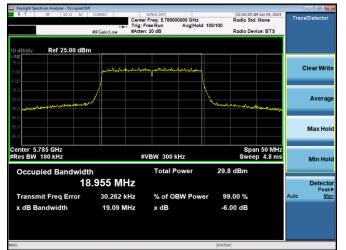
FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage FE of 200	
1C2405200017-11.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 55 of 380	
	-	·	V 10.6 10/27/2023	







Plot 7-151. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n - Ch. 157, MCS2)



Plot 7-152. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) - Ch. 157, MCS2)



Plot 7-153. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n - Ch. 151, MCS2)

Plot 7-154. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) - Ch. 151, MCS2)



Plot 7-155. 6dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac - Ch. 155, MCS2)



Plot 7-156. 6dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 155, MCS2)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dege EC of 200
1C2405200017-11.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 56 of 380
			V 10.6 10/27/2023