

7.3 6dB & 99% Bandwidth Measurement – 802.11a/n/ac/ax-SU §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 C63.10-2013 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 ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. 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 $\geq 3 \times$ 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 data 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 are reported.

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 43 of 354

Antenna 5b 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.63	17.21	0.50	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.61	17.27	0.50	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.64	17.56	0.50	Pass
	5745	149	ax-SU (20MHz)	8/8.6 (MCS0)	18.97	19.00	0.50	Pass
	5785	157	ax-SU (20MHz)	8/8.6 (MCS0)	19.00	19.03	0.50	Pass
	5825	165	ax-SU (20MHz)	8/8.6 (MCS0)	18.99	18.87	0.50	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	36.05	35.61	0.50	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	36.06	35.27	0.50	Pass
	5755	151	ax-SU (40MHz)	16/17.2 (MCS0)	37.86	38.18	0.50	Pass
	5795	159	ax-SU (40MHz)	16/17.2 (MCS0)	37.84	38.12	0.50	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.25	75.52	0.50	Pass
	5775	155	ax-SU (80MHz)	34/36.0 (MCS0)	76.91	77.41	0.50	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna 5b (Low Data Rate)

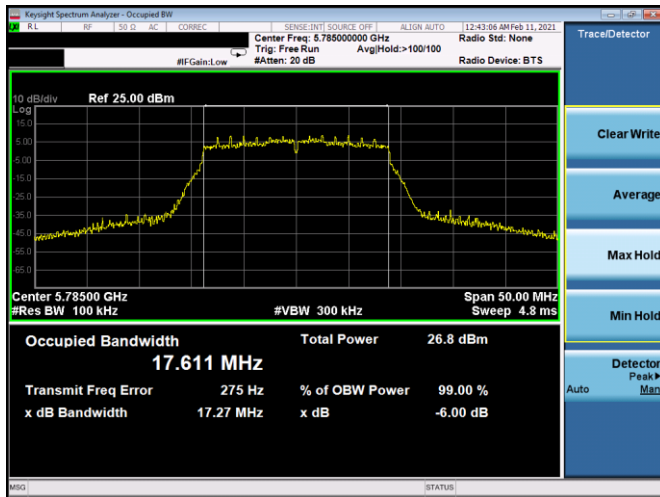
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	26/28.9 (MCS3)	17.63	17.69	0.50	Pass
	5785	157	n (20MHz)	26/28.9 (MCS3)	17.62	17.67	0.50	Pass
	5825	165	n (20MHz)	26/28.9 (MCS3)	17.62	17.65	0.50	Pass
	5745	149	ax-SU (20MHz)	33/34.4 (MCS3)	18.95	19.02	0.50	Pass
	5785	157	ax-SU (20MHz)	33/34.4 (MCS3)	18.93	19.02	0.50	Pass
	5825	165	ax-SU (20MHz)	33/34.4 (MCS3)	18.97	19.08	0.50	Pass
	5755	151	n (40MHz)	54/60 (MCS3)	36.04	36.09	0.50	Pass
	5795	159	n (40MHz)	54/60 (MCS3)	36.11	36.42	0.50	Pass
	5755	151	ax-SU (40MHz)	65/68.8 (MCS3)	37.83	38.19	0.50	Pass
	5795	159	ax-SU (40MHz)	65/68.8 (MCS3)	37.81	38.20	0.50	Pass
	5775	155	ac (80MHz)	117/130 (MCS3)	75.24	75.57	0.50	Pass
	5775	155	ax-SU (80MHz)	567/600.5 (MCS3)	76.91	77.45	0.50	Pass

Table 7-9. Conducted Bandwidth Measurements Antenna 5b (Mid Data Rate)

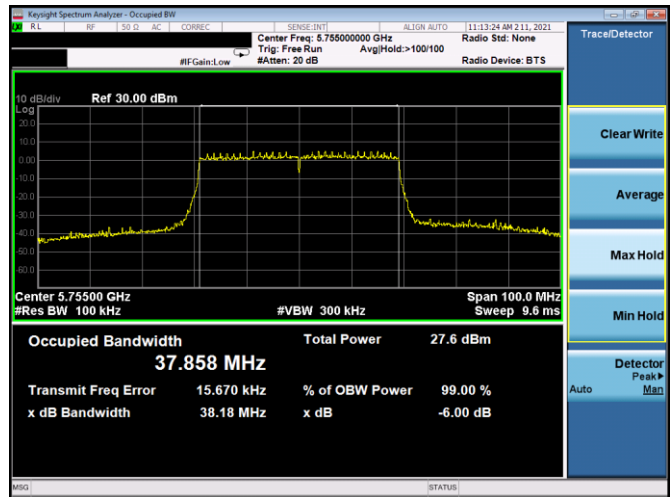
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	52/57.8 (MCS5)	17.71	17.77	0.50	Pass
	5785	157	n (20MHz)	52/57.8 (MCS5)	17.69	17.75	0.50	Pass
	5825	165	n (20MHz)	52/57.8 (MCS5)	17.70	17.76	0.50	Pass
	5745	149	ax-SU (20MHz)	135/143.4 (MCS11)	18.98	19.08	0.50	Pass
	5785	157	ax-SU (20MHz)	135/143.4 (MCS11)	18.96	19.06	0.50	Pass
	5825	165	ax-SU (20MHz)	135/143.4 (MCS11)	18.97	19.10	0.50	Pass
	5755	151	n (40MHz)	108/120 (MCS5)	36.25	36.50	0.50	Pass
	5795	159	n (40MHz)	108/120 (MCS5)	36.26	36.51	0.50	Pass
	5755	151	ax-SU (40MHz)	271/286.8 (MCS11)	37.82	38.10	0.50	Pass
	5795	159	ax-SU (40MHz)	271/286.8 (MCS11)	37.81	38.13	0.50	Pass
	5775	155	ac (80MHz)	292.5/325 (MCS5)	75.52	76.07	0.50	Pass
	5775	155	ax-SU (80MHz)	567/600.5 (MCS11)	76.67	76.26	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna 5b (High Data Rate)

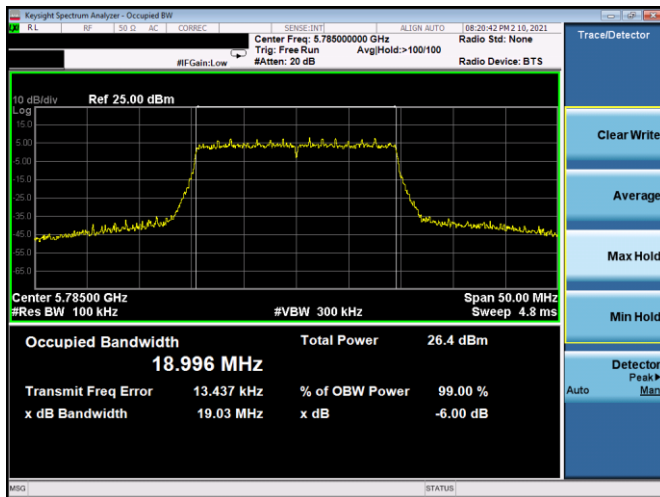
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device
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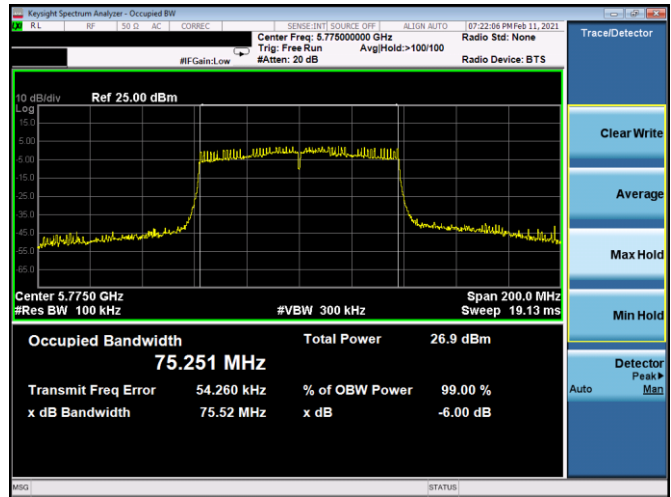
Plot 7-109. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11n – Ch. 157, MCS0)



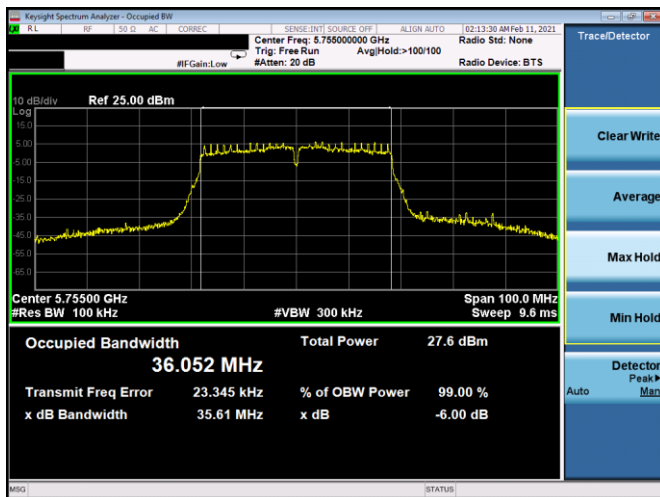
Plot 7-112. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 151, MCS0)



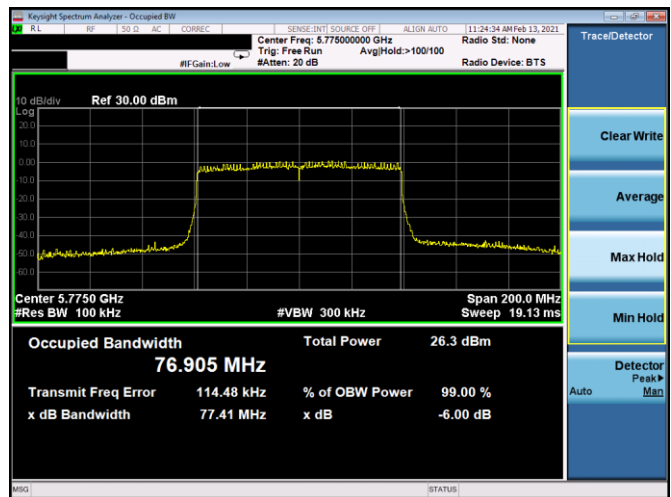
Plot 7-110. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 157, MCS0)



Plot 7-113. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ac – Ch. 155, MCS0)

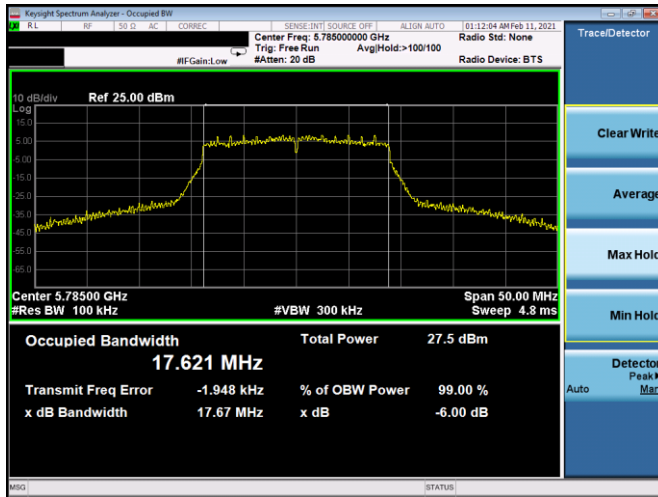


Plot 7-111. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11n – Ch. 151, MCS0)

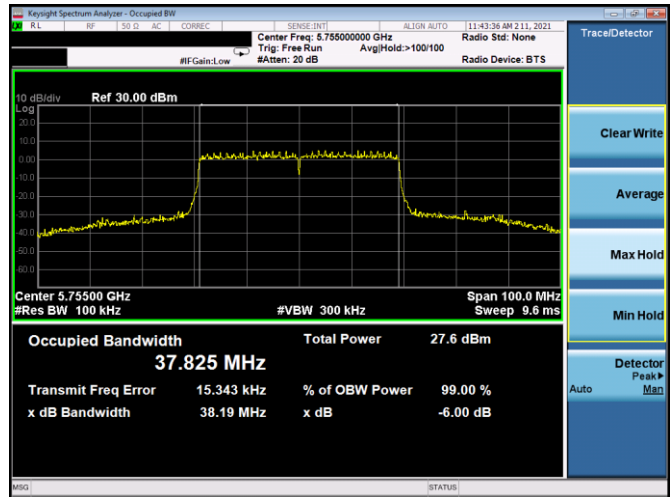


Plot 7-114. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 155, MCS0)

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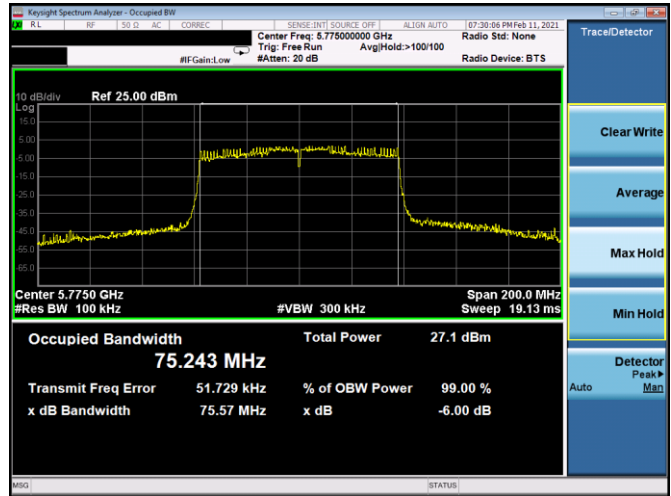
Plot 7-115. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11n – Ch. 157, MCS3)



Plot 7-118. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 151, MCS3)



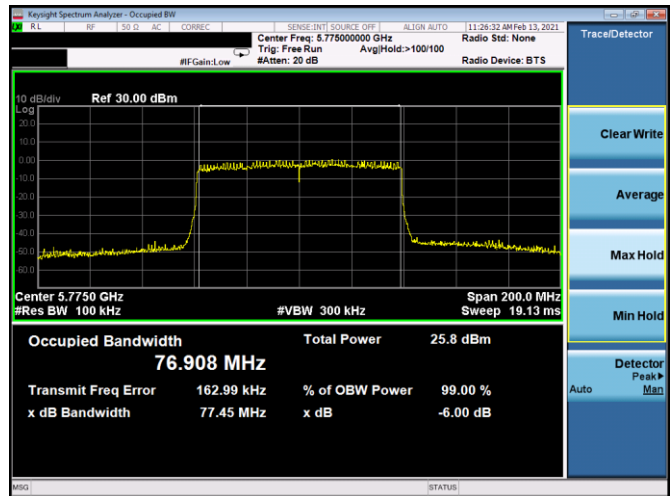
Plot 7-116. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 157, MCS3)



Plot 7-119. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ac – Ch. 155, MCS3)

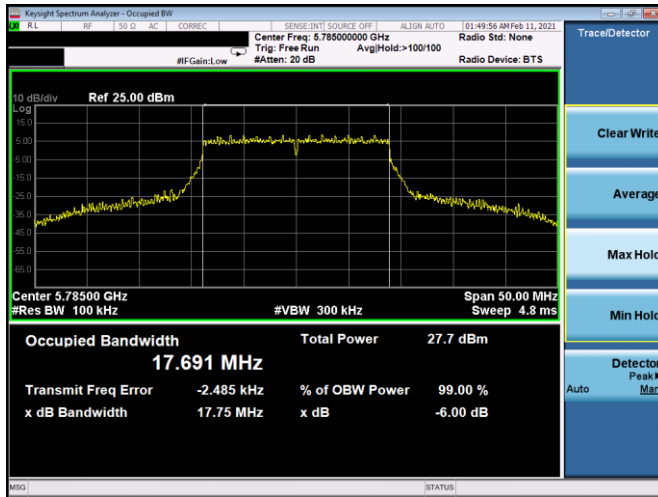


Plot 7-117. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11n – Ch. 151, MCS3)

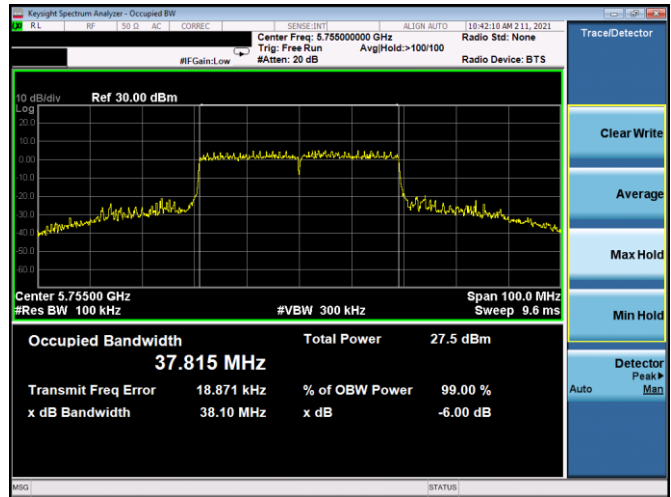


Plot 7-120. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 155, MCS3)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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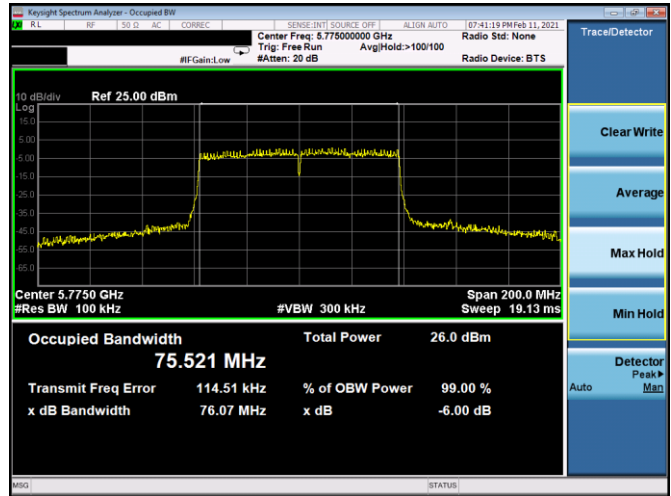
Plot 7-121. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11n – Ch. 157, MCS5)



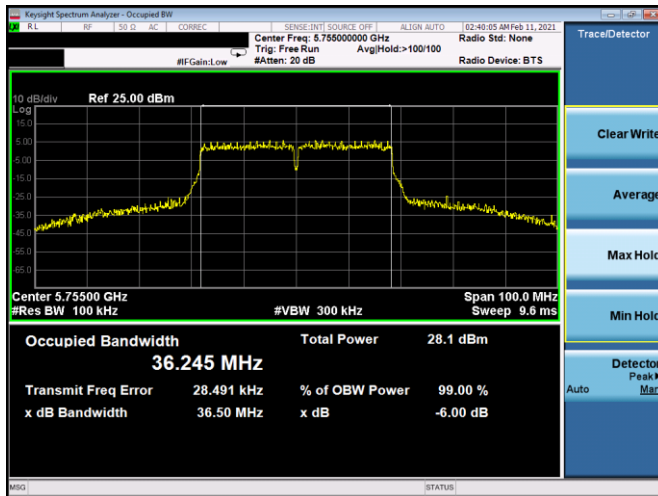
Plot 7-124. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



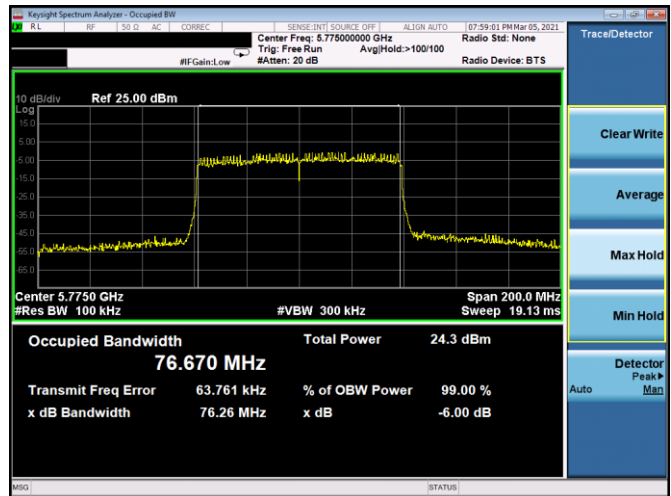
Plot 7-122. 6dB BW & 99% OBW Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-125. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ac – Ch. 155, MCS5)



Plot 7-123. 6dB BW & 99% OBW Antenna 5b (40MHz BW 802.11n – Ch. 151, MCS5)



Plot 7-126. 6dB BW & 99% OBW Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 155, MCS11)

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Antenna 4b 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.64	17.54	0.50	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.64	17.26	0.50	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.63	17.30	0.50	Pass
	5745	149	ax-SU (20MHz)	8/8.6 (MCS0)	18.99	18.99	0.50	Pass
	5785	157	ax-SU (20MHz)	8/8.6 (MCS0)	18.99	19.05	0.50	Pass
	5825	165	ax-SU (20MHz)	8/8.6 (MCS0)	18.98	18.95	0.50	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	36.03	35.28	0.50	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	36.09	35.37	0.50	Pass
	5755	151	ax-SU (40MHz)	16/17.2 (MCS0)	37.83	38.08	0.50	Pass
	5795	159	ax-SU (40MHz)	16/17.2 (MCS0)	37.90	38.13	0.50	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.27	75.54	0.50	Pass
	5775	155	ax-SU (80MHz)	34/36.0 (MCS0)	77.02	77.85	0.50	Pass

Table 7-11. Conducted Bandwidth Measurements Antenna 4b (Low Data Rate)

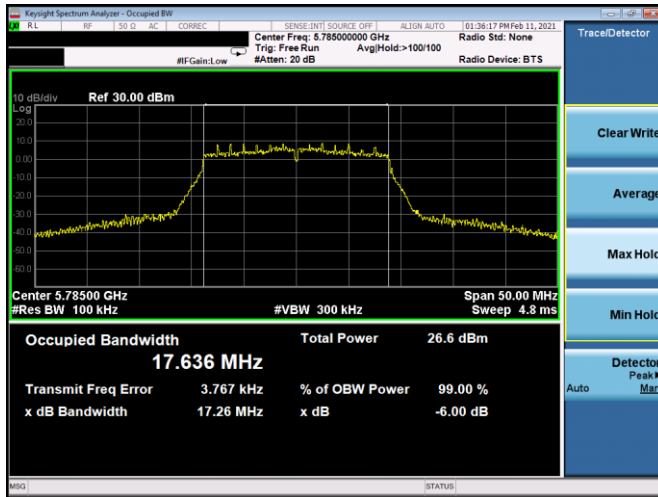
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	26/28.9 (MCS3)	17.64	17.71	0.50	Pass
	5785	157	n (20MHz)	26/28.9 (MCS3)	17.64	17.66	0.50	Pass
	5825	165	n (20MHz)	26/28.9 (MCS3)	17.65	17.72	0.50	Pass
	5745	149	ax-SU (20MHz)	33/34.4 (MCS3)	18.95	19.07	0.50	Pass
	5785	157	ax-SU (20MHz)	33/34.4 (MCS3)	18.97	19.03	0.50	Pass
	5825	165	ax-SU (20MHz)	33/34.4 (MCS3)	18.99	19.10	0.50	Pass
	5755	151	n (40MHz)	54/60 (MCS3)	36.07	36.34	0.50	Pass
	5795	159	n (40MHz)	54/60 (MCS3)	36.15	36.42	0.50	Pass
	5755	151	ax-SU (40MHz)	65/68.8 (MCS3)	37.84	38.16	0.50	Pass
	5795	159	ax-SU (40MHz)	65/68.8 (MCS3)	37.91	38.19	0.50	Pass
	5775	155	ac (80MHz)	117/130 (MCS3)	75.28	75.57	0.50	Pass
	5775	155	ax-SU (80MHz)	567/600.5 (MCS3)	76.98	77.83	0.50	Pass

Table 7-12. Conducted Bandwidth Measurements Antenna 4b (Mid Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	52/57.8 (MCS5)	17.71	17.77	0.50	Pass
	5785	157	n (20MHz)	52/57.8 (MCS5)	17.72	17.76	0.50	Pass
	5825	165	n (20MHz)	52/57.8 (MCS5)	17.73	17.75	0.50	Pass
	5745	149	ax-SU (20MHz)	135/143.4 (MCS11)	18.99	19.12	0.50	Pass
	5785	157	ax-SU (20MHz)	135/143.4 (MCS11)	19.01	19.07	0.50	Pass
	5825	165	ax-SU (20MHz)	135/143.4 (MCS11)	18.99	19.11	0.50	Pass
	5755	151	n (40MHz)	108/120 (MCS5)	36.26	36.51	0.50	Pass
	5795	159	n (40MHz)	108/120 (MCS5)	36.27	36.47	0.50	Pass
	5755	151	ax-SU (40MHz)	271/286.8 (MCS11)	37.92	38.18	0.50	Pass
	5795	159	ax-SU (40MHz)	271/286.8 (MCS11)	37.97	38.21	0.50	Pass
	5775	155	ac (80MHz)	292.5/325 (MCS5)	75.50	76.23	0.50	Pass
	5775	155	ax-SU (80MHz)	567/600.5 (MCS11)	76.86	77.09	0.50	Pass

Table 7-13. Conducted Bandwidth Measurements Antenna 4b (High Data Rate)

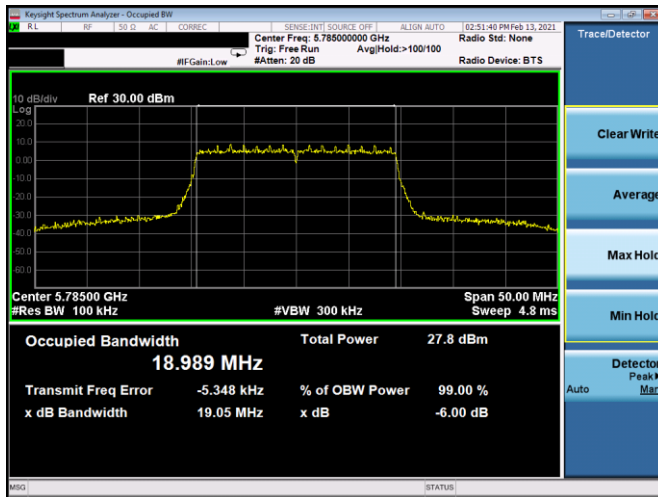
FCC ID: BCGA2301 IC: 579C-A2301	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 48 of 354



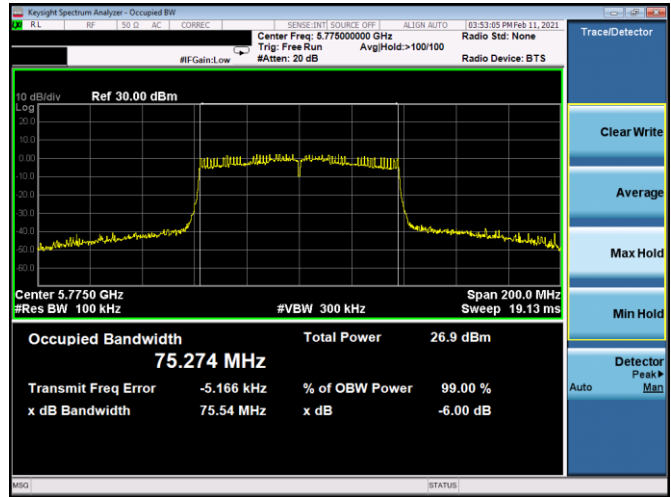
Plot 7-127. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11n – Ch. 157, MCS0)



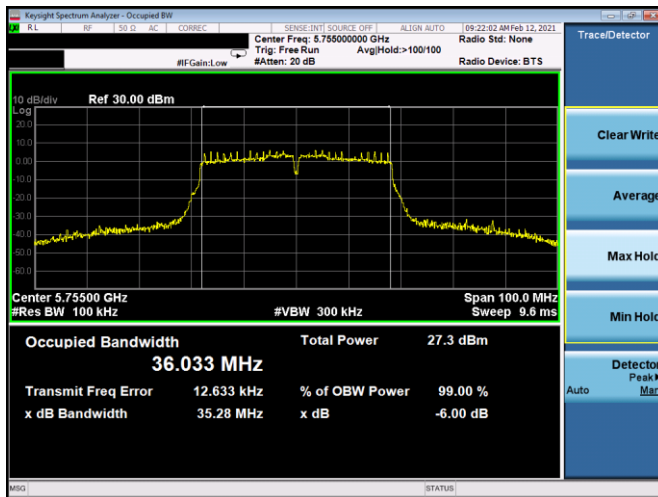
Plot 7-130. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11ax(SU) – Ch. 151, MCS0)



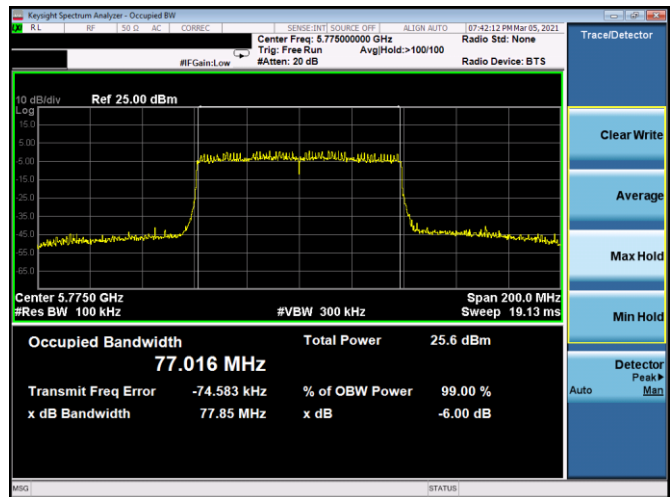
Plot 7-128. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11ax(SU) – Ch. 157, MCS0)



Plot 7-131. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ac – Ch. 155, MCS0)

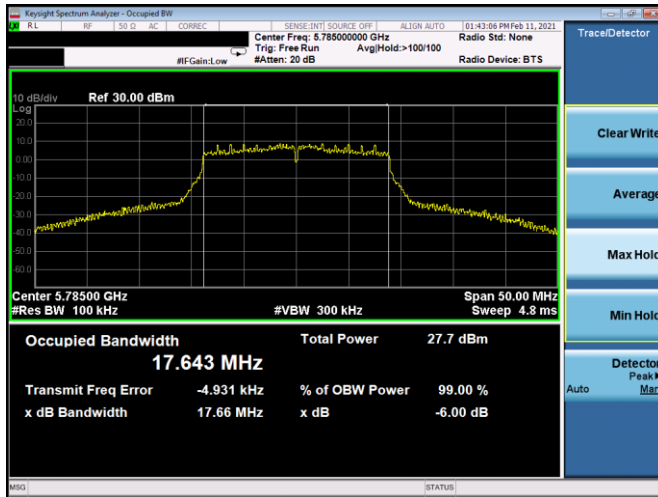


Plot 7-129. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11n – Ch. 151, MCS0)



Plot 7-132. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ax(SU) – Ch. 155, MCS0)

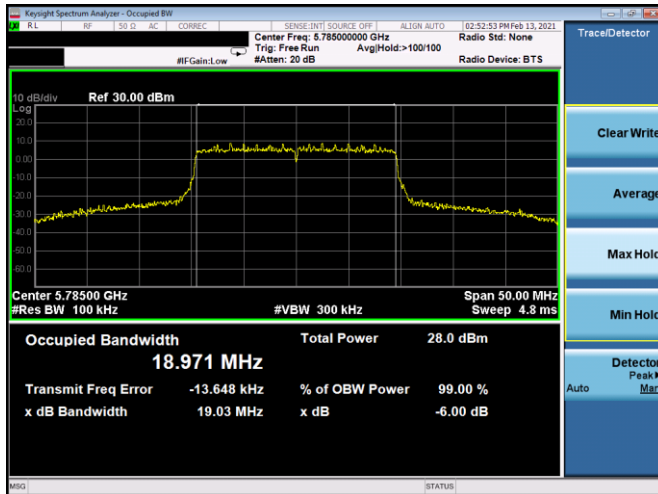
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 49 of 354



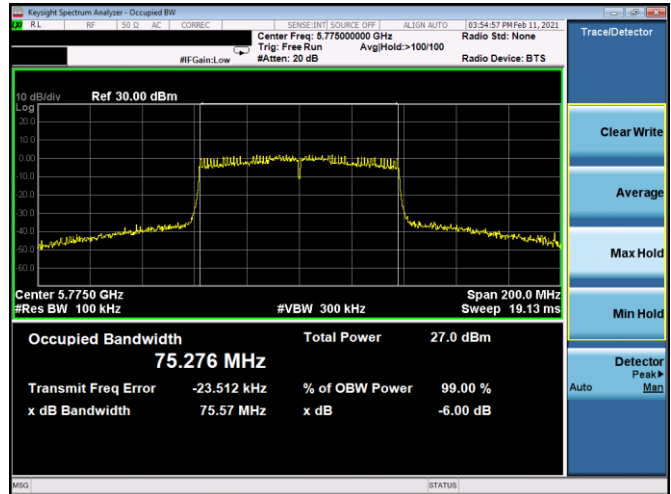
Plot 7-133. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11n – Ch. 157, MCS3)



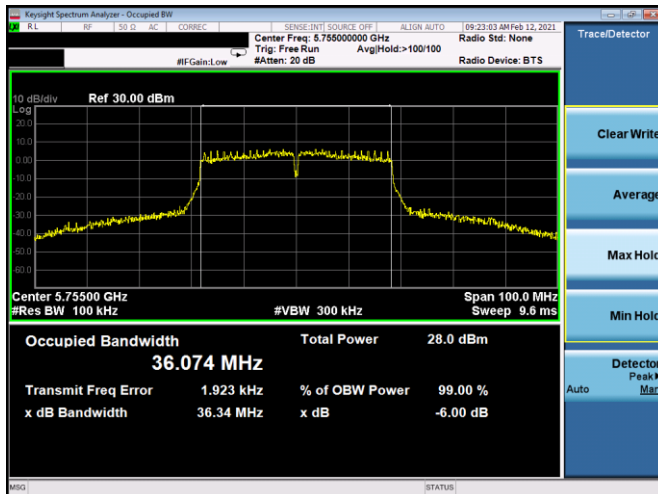
Plot 7-136. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11ax (SU) – Ch. 151, MCS3)



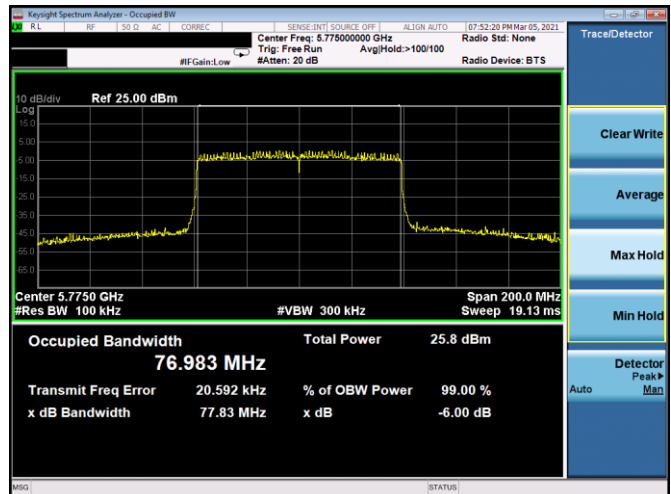
Plot 7-134. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11ax(SU) – Ch. 157, MCS3)



Plot 7-137. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ac – Ch. 155, MCS3)

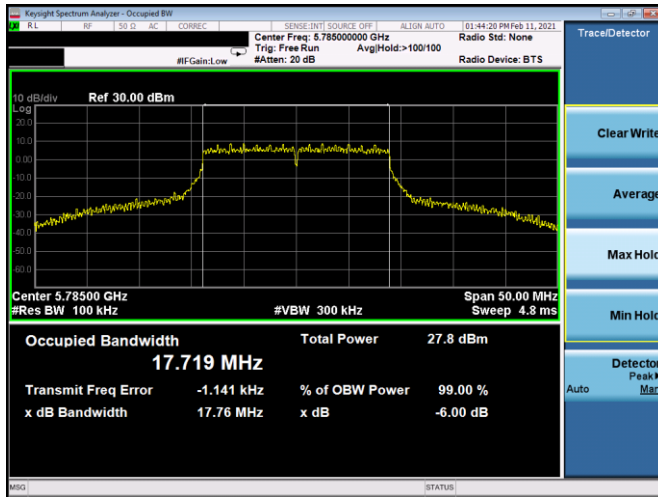


Plot 7-135. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11n – Ch. 151, MCS3)



Plot 7-138. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ax(SU) – Ch. 155, MCS3)

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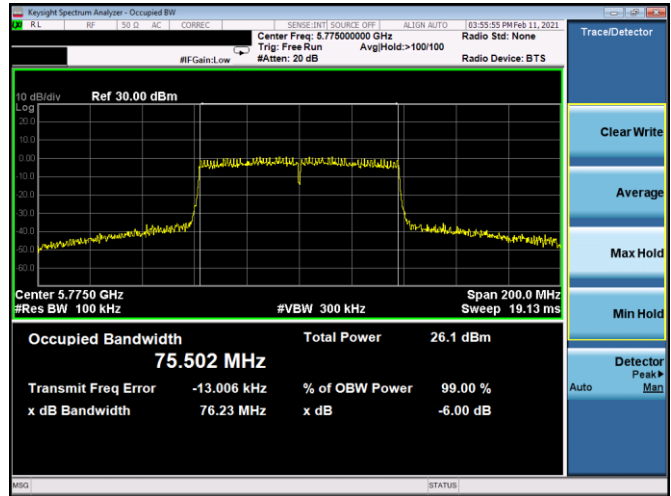
Plot 7-139. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11n – Ch. 157, MCS5)



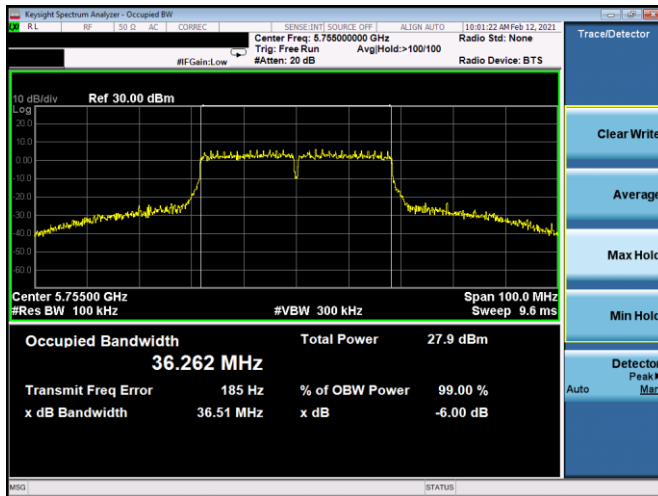
Plot 7-142. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



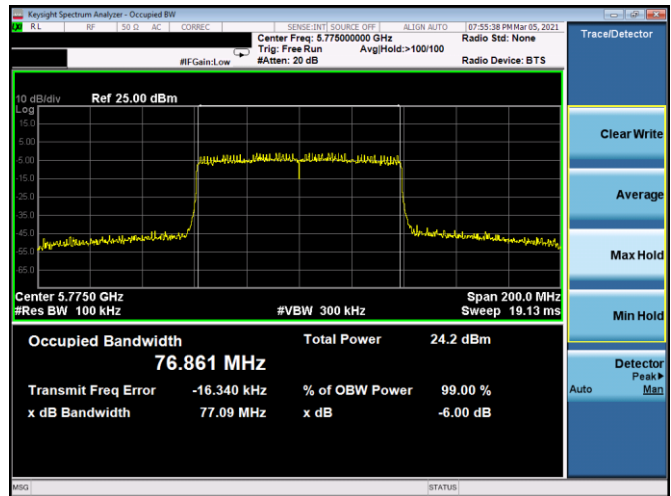
Plot 7-140. 6dB BW & 99% OBW Antenna 4b (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-143. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ac – Ch. 155, MCS5)



Plot 7-141. 6dB BW & 99% OBW Antenna 4b (40MHz BW 802.11n – Ch. 151, MCS5)



Plot 7-144. 6dB BW & 99% OBW Antenna 4b (80MHz BW 802.11ax(SU) – Ch. 155, MCS11)

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7.4 Conducted Output Power and Max EIRP Measurement – 802.11a/n/ac/ax-SU

§15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. B is the 99% OBW per ISSED RSS-247 and 26dB BW is per FCC 15.407.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or $10 + 10 \log_{10} B$, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10 \log_{10}(26 \text{ dB BW}) = 11 \text{ dBm} + 10 \log_{10}(20.64) = 24.15 \text{ dBm}$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10} B$, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or $11 \text{ dBm} + 10 \log_{10}(26 \text{ dB BW}) = 11 \text{ dBm} + 10 \log_{10}(20.71) = 24.16 \text{ dBm}$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10} B$, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

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 diagram below.



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

- Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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7.4.1 FCC Antenna 5b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	16.94	16.83	16.89	23.98	-7.04
	5200	40	AVG	19.39	19.49	19.42	23.98	-4.49
	5240	48	AVG	19.38	19.49	19.36	23.98	-4.49
	5260	52	AVG	19.37	19.49	19.38	23.98	-4.49
	5300	60	AVG	19.39	19.40	19.31	23.98	-4.58
	5320	64	AVG	19.34	19.25	18.91	23.98	-4.64
	5500	100	AVG	17.30	17.31	17.41	23.98	-6.57
	5520	104	AVG	19.44	19.39	19.43	23.98	-4.54
	5580	116	AVG	19.47	19.25	19.28	23.98	-4.51
	5660	132	AVG	19.26	19.36	19.49	23.98	-4.49
	5680	136	AVG	19.25	19.33	18.81	23.98	-4.65
	5700	140	AVG	16.39	16.26	14.88	23.98	-7.59
	5720	144	AVG	19.25	19.35	19.31	23.98	-4.63
	5745	149	AVG	19.41	19.33	19.30	30.00	-10.59
	5785	157	AVG	19.49	19.25	19.33	30.00	-10.51
	5825	165	AVG	19.43	19.34	19.49	30.00	-10.51

Table 7-14. FCC Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	15.85	15.91	15.86	23.98	-8.07
	5200	40	AVG	19.34	19.25	19.34	23.98	-4.64
	5240	48	AVG	19.33	19.47	19.35	23.98	-4.51
	5260	52	AVG	19.34	19.49	19.29	23.98	-4.49
	5300	60	AVG	19.24	19.40	19.36	23.98	-4.58
	5320	64	AVG	17.87	17.86	17.81	23.98	-6.11
	5500	100	AVG	15.90	15.79	15.82	23.98	-8.08
	5520	104	AVG	19.28	19.34	18.44	23.98	-4.64
	5540	108	AVG	19.21	19.46	19.44	23.98	-4.52
	5580	116	AVG	19.34	19.46	19.49	23.98	-4.49
	5660	132	AVG	19.46	19.26	19.33	23.98	-4.52
	5680	136	AVG	19.28	19.29	17.77	23.98	-4.69
	5700	140	AVG	15.43	15.33	14.38	23.98	-8.55
	5720	144	AVG	19.39	19.48	19.30	23.98	-4.50
	5745	149	AVG	19.30	19.50	19.40	30.00	-10.50
	5785	157	AVG	19.44	19.30	19.47	30.00	-10.53
	5825	165	AVG	19.23	19.44	19.42	30.00	-10.56

Table 7-15. FCC Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	15.45	15.34	14.82	23.98	-8.53
	5200	40	AVG	18.95	18.86	18.91	23.98	-5.03
	5220	44	AVG	19.42	19.45	19.47	23.98	-4.51
	5240	48	AVG	19.22	19.34	19.38	23.98	-4.60
	5260	52	AVG	19.47	19.35	19.37	23.98	-4.51
	5280	56	AVG	19.49	19.35	19.29	23.98	-4.49
	5300	60	AVG	19.34	19.39	18.96	23.98	-4.59
	5320	64	AVG	16.98	16.92	16.90	23.98	-7.00
	5500	100	AVG	14.45	14.43	14.43	23.98	-9.53
	5520	104	AVG	18.94	18.88	17.94	23.98	-5.04
	5540	108	AVG	19.28	19.26	18.93	23.98	-4.70
	5560	112	AVG	19.37	19.25	19.49	23.98	-4.49
	5580	116	AVG	19.33	19.25	19.47	23.98	-4.51
	5640	128	AVG	19.44	19.42	19.37	23.98	-4.54
	5660	132	AVG	19.45	19.25	18.92	23.98	-4.53
	5680	136	AVG	18.49	18.38	17.29	23.98	-5.49
	5700	140	AVG	14.30	14.40	12.87	23.98	-9.58
	5720	144	AVG	19.29	19.26	19.40	23.98	-4.58
	5745	149	AVG	19.33	19.44	19.33	30.00	-10.56
	5785	157	AVG	19.49	19.38	19.45	30.00	-10.51
	5825	165	AVG	19.43	19.22	19.43	30.00	-10.57

Table 7-16. FCC Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	14.31	13.97	23.98	-9.67
	5230	46	AVG	19.49	18.34	23.98	-4.49
	5270	54	AVG	19.36	19.46	23.98	-4.52
	5310	62	AVG	15.78	14.75	23.98	-8.20
	5510	102	AVG	15.27	14.37	23.98	-8.71
	5550	110	AVG	19.49	18.45	23.98	-4.49
	5590	118	AVG	19.45	19.41	23.98	-4.53
	5630	126	AVG	19.50	19.50	23.98	-4.48
	5670	134	AVG	17.97	16.77	23.98	-6.01
	5710	142	AVG	19.38	19.36	23.98	-4.60
	5755	151	AVG	19.27	19.31	30.00	-10.69
	5795	159	AVG	19.43	19.44	30.00	-10.56

Table 7-17. FCC Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	13.96	13.33	23.98	-10.02
	5230	46	AVG	19.43	18.45	23.98	-4.55
	5270	54	AVG	19.31	18.80	23.98	-4.67
	5310	62	AVG	14.91	13.91	23.98	-9.07
	5510	102	AVG	14.46	12.88	23.98	-9.52
	5550	110	AVG	19.40	17.84	23.98	-4.58
	5630	126	AVG	19.48	19.39	23.98	-4.50
	5670	134	AVG	17.24	15.91	23.98	-6.74
	5710	142	AVG	19.23	19.47	23.98	-4.51
	5755	151	AVG	19.40	19.44	30.00	-10.56
	5795	159	AVG	19.44	19.49	30.00	-10.51

Table 7-18. FCC Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	13.35	11.91	23.98	-10.63
	5230	46	AVG	19.35	17.96	23.98	-4.63
	5270	54	AVG	19.43	18.30	23.98	-4.55
	5310	62	AVG	14.00	13.26	23.98	-9.98
	5510	102	AVG	12.75	11.00	23.98	-11.23
	5550	110	AVG	18.94	17.38	23.98	-5.04
	5590	118	AVG	19.41	18.35	23.98	-4.57
	5630	126	AVG	19.38	18.47	23.98	-4.60
	5670	134	AVG	15.76	14.78	23.98	-8.22
	5710	142	AVG	19.26	19.36	23.98	-4.62
	5755	151	AVG	19.32	19.27	30.00	-10.68
	5795	159	AVG	19.44	19.37	30.00	-10.56

Table 7-19. FCC Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	13.95	12.99	23.98	-10.03
	5290	58	AVG	15.75	14.76	23.98	-8.23
	5530	106	AVG	16.30	14.79	23.98	-7.68
	5610	122	AVG	18.97	18.88	23.98	-5.01
	5690	138	AVG	19.50	19.36	23.98	-4.48
	5775	155	AVG	19.00	17.50	30.00	-11.00

Table 7-20. FCC Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	12.93	12.26	23.98	-11.05
	5290	58	AVG	14.80	13.84	23.98	-9.18
	5530	106	AVG	14.85	13.85	23.98	-9.13
	5610	122	AVG	18.47	18.00	23.98	-5.51
	5690	138	AVG	19.26	19.29	23.98	-4.69
	5775	155	AVG	18.39	16.92	30.00	-11.61

Table 7-21. FCC Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	12.34	11.26	23.98	-11.64
	5290	58	AVG	13.47	12.95	23.98	-10.51
	5530	106	AVG	12.97	12.36	23.98	-11.01
	5610	122	AVG	17.94	16.88	23.98	-6.04
	5690	138	AVG	19.46	19.38	23.98	-4.52
	5775	155	AVG	17.23	15.95	30.00	-12.77

Table 7-22. FCC Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.4.2 ISED Antenna 5b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.26	12.33	12.44	23.98	-11.54	5.50	17.83	23.01	-5.18
	5200	40	AVG	12.35	12.49	12.28	23.98	-11.49	5.50	17.99	23.01	-5.02
	5240	48	AVG	12.30	12.42	12.33	23.98	-11.56	5.50	17.92	23.01	-5.09
	5260	52	AVG	19.37	19.49	19.38	23.98	-4.49	5.20	24.69	30.00	-5.31
	5300	60	AVG	19.39	19.40	19.31	23.98	-4.58	5.20	24.60	30.00	-5.40
	5320	64	AVG	19.34	19.25	18.91	23.98	-4.64	5.20	24.54	30.00	-5.46
	5500	100	AVG	17.30	17.31	17.41	23.98	-6.57	4.20	21.51	30.00	-8.49
	5520	104	AVG	19.44	19.39	19.43	23.98	-4.54	4.20	23.64	30.00	-6.36
	5580	116	AVG	19.47	19.25	19.28	23.98	-4.51	4.20	23.67	30.00	-6.33
	5660	132	AVG	19.26	19.36	19.49	23.98	-4.49	4.20	23.56	30.00	-6.44
	5680	136	AVG	19.25	19.33	18.81	23.98	-4.65	4.20	23.53	30.00	-6.47
	5700	140	AVG	16.39	16.26	14.88	23.98	-7.59	4.20	20.59	30.00	-9.41
	5720	144	AVG	19.25	19.35	19.31	23.98	-4.63	4.20	23.55	30.00	-6.45
	5745	149	AVG	19.41	19.33	19.30	30.00	-10.59	5.50	24.91	-	-
	5785	157	AVG	19.49	19.25	19.33	30.00	-10.51	5.50	24.99	-	-
	5825	165	AVG	19.43	19.34	19.49	30.00	-10.51	5.50	24.93	-	-

Table 7-23. ISED Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.50	12.42	12.41	23.98	-11.48	5.50	18.00	23.01	-5.01
	5200	40	AVG	12.50	12.48	12.41	23.98	-11.48	5.50	18.00	23.01	-5.01
	5240	48	AVG	12.41	12.48	12.50	23.98	-11.48	5.50	17.98	23.01	-5.03
	5260	52	AVG	19.34	19.49	19.29	23.98	-4.49	5.20	24.69	30.00	-5.31
	5300	60	AVG	19.24	19.40	19.36	23.98	-4.58	5.20	24.60	30.00	-5.40
	5320	64	AVG	17.87	17.86	17.81	23.98	-6.11	5.20	23.07	30.00	-6.93
	5500	100	AVG	15.90	15.79	15.82	23.98	-8.08	4.20	20.10	30.00	-9.90
	5520	104	AVG	19.28	19.34	18.44	23.98	-4.64	4.20	23.54	30.00	-6.46
	5540	108	AVG	19.21	19.46	19.44	23.98	-4.52	4.20	23.66	30.00	-6.34
	5580	116	AVG	19.34	19.46	19.49	23.98	-4.49	4.20	23.66	30.00	-6.34
	5660	132	AVG	19.46	19.26	19.33	23.98	-4.52	4.20	23.66	30.00	-6.34
	5680	136	AVG	19.28	19.29	17.77	23.98	-4.69	4.20	23.49	30.00	-6.51
	5700	140	AVG	15.43	15.33	14.38	23.98	-8.55	4.20	19.63	30.00	-10.37
	5720	144	AVG	19.39	19.48	19.30	23.98	-4.50	4.20	23.68	30.00	-6.32
	5745	149	AVG	19.30	19.50	19.40	30.00	-10.50	5.50	25.00	-	-
	5785	157	AVG	19.44	19.30	19.47	30.00	-10.53	5.50	24.94	-	-
	5825	165	AVG	19.23	19.44	19.42	30.00	-10.56	5.50	24.94	-	-

Table 7-24. ISED Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.43	12.09	12.31	23.98	-11.55	5.50	17.93	23.01	-5.08
	5200	40	AVG	12.27	12.02	12.44	23.98	-11.54	5.50	17.77	23.01	-5.24
	5220	44	AVG	12.11	12.12	12.37	23.98	-11.61	5.50	17.62	23.01	-5.39
	5240	48	AVG	12.32	12.25	12.43	23.98	-11.55	5.50	17.82	23.01	-5.19
	5260	52	AVG	19.47	19.35	19.37	23.98	-4.51	5.20	24.67	30.00	-5.33
	5280	56	AVG	19.49	19.35	19.29	23.98	-4.49	5.20	24.69	30.00	-5.31
	5300	60	AVG	19.34	19.39	18.96	23.98	-4.59	5.20	24.59	30.00	-5.41
	5320	64	AVG	16.98	16.92	16.90	23.98	-7.00	5.20	22.18	30.00	-7.82
	5500	100	AVG	14.45	14.43	14.43	23.98	-9.53	4.20	18.65	30.00	-11.35
	5520	104	AVG	18.94	18.88	17.94	23.98	-5.04	4.20	23.14	30.00	-6.86
	5540	108	AVG	19.28	19.26	18.93	23.98	-4.70	4.20	23.48	30.00	-6.52
	5560	112	AVG	19.37	19.25	19.49	23.98	-4.49	4.20	23.57	30.00	-6.43
	5580	116	AVG	19.33	19.25	19.47	23.98	-4.51	4.20	23.53	30.00	-6.47
	5660	132	AVG	19.45	19.25	18.92	23.98	-4.53	4.20	23.65	30.00	-6.35
	5680	136	AVG	18.49	18.38	17.29	23.98	-5.49	4.20	22.69	30.00	-7.31
	5700	140	AVG	14.30	14.40	12.87	23.98	-9.58	4.20	18.60	30.00	-11.40
	5720	144	AVG	19.29	19.26	19.40	23.98	-4.58	4.20	23.49	30.00	-6.51
	5745	149	AVG	19.33	19.44	19.33	30.00	-10.56	5.50	24.94	-	-
	5785	157	AVG	19.49	19.38	19.45	30.00	-10.51	5.50	24.99	-	-
	5825	165	AVG	19.43	19.22	19.43	30.00	-10.57	5.50	24.93	-	-

Table 7-25. ISED Antenna 5b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	14.31	13.97	23.98	-9.67	5.50	19.81	23.01	-3.20
	5230	46	AVG	14.91	14.97	23.98	-9.01	5.50	20.47	23.01	-2.54
	5270	54	AVG	19.36	19.46	23.98	-4.52	5.20	24.56	30.00	-5.44
	5310	62	AVG	15.78	14.75	23.98	-8.20	5.20	20.98	30.00	-9.02
	5510	102	AVG	15.27	14.37	23.98	-8.71	4.20	19.47	30.00	-10.53
	5550	110	AVG	19.49	18.45	23.98	-4.49	4.20	23.69	30.00	-6.31
	5670	134	AVG	17.97	16.77	23.98	-6.01	4.20	22.17	30.00	-7.83
	5710	142	AVG	19.38	19.36	23.98	-4.60	4.20	23.58	30.00	-6.42
	5755	151	AVG	19.27	19.31	30.00	-10.69	5.50	24.77	-	-
	5795	159	AVG	19.43	19.44	30.00	-10.56	5.50	24.93	-	-

Table 7-26. ISED Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	13.96	13.33	23.98	-10.02	5.50	19.46	23.01	-3.55
	5230	46	AVG	14.82	14.94	23.98	-9.04	5.50	20.32	23.01	-2.69
	5270	54	AVG	19.31	18.80	23.98	-4.67	5.20	24.51	30.00	-5.49
	5310	62	AVG	14.91	13.91	23.98	-9.07	5.20	20.11	30.00	-9.89
	5510	102	AVG	14.46	12.88	23.98	-9.52	4.20	18.66	30.00	-11.34
	5550	110	AVG	19.40	17.84	23.98	-4.58	4.20	23.60	30.00	-6.40
	5670	134	AVG	17.24	15.91	23.98	-6.74	4.20	21.44	30.00	-8.56
	5710	142	AVG	19.23	19.47	23.98	-4.51	4.20	23.43	30.00	-6.57
	5755	151	AVG	19.40	19.44	30.00	-10.56	5.50	24.90	-	-
	5795	159	AVG	19.44	19.49	30.00	-10.51	5.50	24.94	-	-

Table 7-27. ISED Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 58 of 354

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	13.35	11.91	23.98	-10.63	5.50	18.85	23.01	-4.16
	5230	46	AVG	15.00	14.71	23.98	-8.98	5.50	20.50	23.01	-2.51
	5270	54	AVG	19.43	18.30	23.98	-4.55	5.20	24.63	30.00	-5.37
	5310	62	AVG	14.00	13.26	23.98	-9.98	5.20	19.20	30.00	-10.80
	5510	102	AVG	12.75	11.00	23.98	-11.23	4.20	16.95	30.00	-13.05
	5550	110	AVG	18.94	17.38	23.98	-5.04	4.20	23.14	30.00	-6.86
	5670	134	AVG	15.76	14.78	23.98	-8.22	4.20	19.96	30.00	-10.04
	5710	142	AVG	19.26	19.36	23.98	-4.62	4.20	23.46	30.00	-6.54
	5755	151	AVG	19.32	19.27	30.00	-10.68	5.50	24.82	-	-
	5795	159	AVG	19.44	19.37	30.00	-10.56	5.50	24.94	-	-

Table 7-28. ISED Antenna 5b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	13.95	12.99	23.98	-10.03	5.50	19.45	23.01	-3.56
	5290	58	AVG	15.75	14.76	23.98	-8.23	5.20	20.95	30.00	-9.05
	5530	106	AVG	16.30	14.79	23.98	-7.68	4.20	20.50	30.00	-9.50
	5690	138	AVG	19.50	19.36	23.98	-4.48	4.20	23.70	30.00	-6.30
	5775	155	AVG	19.00	17.50	30.00	-11.00	5.50	24.50	-	-

Table 7-29. ISED Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	12.93	12.26	23.98	-11.05	5.50	18.43	23.01	-4.58
	5290	58	AVG	14.80	13.84	23.98	-9.18	5.20	20.00	30.00	-10.00
	5530	106	AVG	14.85	13.85	23.98	-9.13	4.20	19.05	30.00	-10.95
	5690	138	AVG	19.26	19.29	23.98	-4.69	4.20	23.46	30.00	-6.54
	5775	155	AVG	18.39	16.92	30.00	-11.61	5.50	23.89	-	-

Table 7-30. ISED Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	12.34	11.26	23.98	-11.64	5.50	17.84	23.01	-5.17
	5290	58	AVG	13.47	12.95	23.98	-10.51	5.20	18.67	30.00	-11.33
	5530	106	AVG	12.97	12.36	23.98	-11.01	4.20	17.17	30.00	-12.83
	5690	138	AVG	19.46	19.38	23.98	-4.52	4.20	23.66	30.00	-6.34
	5775	155	AVG	17.23	15.95	30.00	-12.77	5.50	22.73	-	-

Table 7-31. ISED Antenna 5b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 59 of 354

7.4.3 FCC Antenna 4b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	16.83	16.75	16.90	23.98	-7.08
	5200	40	AVG	19.40	19.38	19.35	23.98	-4.58
	5240	48	AVG	19.40	19.48	19.42	23.98	-4.50
	5260	52	AVG	19.39	19.25	19.44	23.98	-4.54
	5300	60	AVG	19.43	19.45	19.35	23.98	-4.53
	5320	64	AVG	19.49	19.33	18.80	23.98	-4.49
	5500	100	AVG	17.45	17.41	17.25	23.98	-6.53
	5520	104	AVG	19.50	19.43	19.30	23.98	-4.48
	5580	116	AVG	19.50	19.47	19.38	23.98	-4.48
	5660	132	AVG	19.50	19.50	19.43	23.98	-4.48
	5680	136	AVG	19.22	19.21	18.90	23.98	-4.76
	5700	140	AVG	16.30	16.30	14.85	23.98	-7.68
	5720	144	AVG	19.50	19.38	19.33	23.98	-4.48
	5745	149	AVG	19.49	19.42	19.48	30.00	-10.51
	5785	157	AVG	19.50	19.43	19.40	30.00	-10.50
	5825	165	AVG	19.37	19.39	19.35	30.00	-10.61

Table 7-32. FCC Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	15.72	15.76	15.78	23.98	-8.20
	5200	40	AVG	19.34	19.25	19.48	23.98	-4.50
	5240	48	AVG	19.37	19.22	19.25	23.98	-4.61
	5260	52	AVG	19.27	19.25	19.30	23.98	-4.68
	5300	60	AVG	19.32	19.24	19.34	23.98	-4.64
	5320	64	AVG	17.74	17.98	17.97	23.98	-6.00
	5500	100	AVG	15.85	15.73	15.93	23.98	-8.05
	5520	104	AVG	19.32	19.26	18.36	23.98	-4.66
	5540	108	AVG	19.45	19.34	19.22	23.98	-4.53
	5580	116	AVG	19.38	19.27	19.29	23.98	-4.60
	5660	132	AVG	19.41	19.34	19.36	23.98	-4.57
	5680	136	AVG	19.42	19.23	17.78	23.98	-4.56
	5700	140	AVG	15.46	15.33	14.50	23.98	-8.52
	5720	144	AVG	19.32	19.46	19.48	23.98	-4.50
	5745	149	AVG	19.32	19.22	19.41	30.00	-10.59
	5785	157	AVG	19.27	19.39	19.34	30.00	-10.61
	5825	165	AVG	19.47	19.27	19.26	30.00	-10.53

Table 7-33. FCC Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 60 of 354

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11a	802.11n	802.11ax(SU)		
	5180	36	AVG	15.34	15.37	14.90	23.98	-8.61
	5200	40	AVG	18.97	18.97	18.92	23.98	-5.01
	5220	44	AVG	19.40	19.43	19.33	23.98	-4.55
	5240	48	AVG	19.45	19.45	19.25	23.98	-4.53
	5260	52	AVG	19.42	19.25	19.31	23.98	-4.56
	5280	56	AVG	19.44	19.26	19.37	23.98	-4.54
	5300	60	AVG	19.38	19.30	18.98	23.98	-4.60
	5320	64	AVG	16.88	16.75	16.75	23.98	-7.10
	5500	100	AVG	14.28	14.38	14.27	23.98	-9.60
	5520	104	AVG	18.89	18.96	17.79	23.98	-5.02
	5540	108	AVG	19.48	19.41	18.90	23.98	-4.50
	5560	112	AVG	19.25	19.45	19.33	23.98	-4.53
	5580	116	AVG	19.37	19.45	19.46	23.98	-4.52
	5640	128	AVG	19.38	19.36	19.44	23.98	-4.54
	5660	132	AVG	19.46	19.44	18.94	23.98	-4.52
	5680	136	AVG	18.43	18.49	17.41	23.98	-5.49
	5700	140	AVG	14.36	14.30	12.74	23.98	-9.62
	5720	144	AVG	19.37	19.38	19.29	23.98	-4.60
	5745	149	AVG	19.36	19.36	19.40	30.00	-10.60
	5785	157	AVG	19.42	19.25	19.26	30.00	-10.58
	5825	165	AVG	19.32	19.49	19.39	30.00	-10.51

Table 7-34. FCC Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 61 of 354

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	14.41	13.96	23.98	-9.57
	5230	46	AVG	19.39	18.37	23.98	-4.59
	5270	54	AVG	19.29	19.34	23.98	-4.64
	5310	62	AVG	15.99	14.77	23.98	-7.99
	5510	102	AVG	15.44	14.42	23.98	-8.54
	5550	110	AVG	19.43	18.38	23.98	-4.55
	5590	118	AVG	19.47	19.43	23.98	-4.51
	5630	126	AVG	19.46	19.38	23.98	-4.52
	5670	134	AVG	17.75	16.98	23.98	-6.23
	5710	142	AVG	19.43	19.29	23.98	-4.55
	5755	151	AVG	19.41	19.48	30.00	-10.52
	5795	159	AVG	19.35	19.42	30.00	-10.58

Table 7-35. FCC Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	13.86	13.40	23.98	-10.12
	5230	46	AVG	19.43	18.38	23.98	-4.55
	5270	54	AVG	19.32	18.92	23.98	-4.66
	5310	62	AVG	14.90	13.76	23.98	-9.08
	5510	102	AVG	14.26	12.93	23.98	-9.72
	5550	110	AVG	19.37	17.80	23.98	-4.61
	5630	126	AVG	19.42	19.36	23.98	-4.56
	5670	134	AVG	17.36	15.82	23.98	-6.62
	5710	142	AVG	19.22	19.37	23.98	-4.61
	5755	151	AVG	19.25	19.33	30.00	-10.67
	5795	159	AVG	19.48	19.42	30.00	-10.52

Table 7-36. FCC Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 62 of 354

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11n	802.11ax(SU)		
	5190	38	AVG	13.42	11.95	23.98	-10.56
	5230	46	AVG	19.32	17.98	23.98	-4.66
	5270	54	AVG	19.25	18.41	23.98	-4.73
	5310	62	AVG	13.92	13.38	23.98	-10.06
	5510	102	AVG	12.71	10.81	23.98	-11.27
	5550	110	AVG	18.75	17.41	23.98	-5.23
	5590	118	AVG	19.44	18.44	23.98	-4.54
	5630	126	AVG	19.37	18.36	23.98	-4.61
	5670	134	AVG	15.96	15.00	23.98	-8.02
	5710	142	AVG	19.29	19.36	23.98	-4.62
	5755	151	AVG	19.48	19.42	30.00	-10.52
	5795	159	AVG	19.41	19.37	30.00	-10.59

Table 7-37. FCC Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	13.81	12.86	23.98	-10.17
	5290	58	AVG	15.87	14.76	23.98	-8.11
	5530	106	AVG	16.40	14.78	23.98	-7.58
	5610	122	AVG	18.91	18.79	23.98	-5.07
	5690	138	AVG	19.44	19.49	23.98	-4.49
	5775	155	AVG	18.85	17.50	30.00	-11.15

Table 7-38. FCC Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	12.98	12.43	23.98	-11.00
	5290	58	AVG	14.81	13.83	23.98	-9.17
	5530	106	AVG	14.87	13.98	23.98	-9.11
	5610	122	AVG	18.44	17.95	23.98	-5.54
	5690	138	AVG	19.26	19.48	23.98	-4.50
	5775	155	AVG	18.44	16.91	30.00	-11.56

Table 7-39. FCC Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 63 of 354

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]		Conducted Power Limit [dBm]	Conducted Power Margin [dB]
				802.11ac	802.11ax(SU)		
	5210	42	AVG	12.23	11.36	23.98	-11.75
	5290	58	AVG	13.47	12.88	23.98	-10.51
	5530	106	AVG	12.71	12.29	23.98	-11.27
	5610	122	AVG	17.96	16.98	23.98	-6.02
	5690	138	AVG	19.33	19.37	23.98	-4.61
	5775	155	AVG	17.42	15.88	30.00	-12.58

Table 7-40. FCC Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 64 of 354

7.4.4 ISED Antenna 4b Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.37	12.37	12.38	23.98	-11.60	1.00	13.37	23.01	-9.64
	5200	40	AVG	12.50	12.36	12.35	23.98	-11.48	1.00	13.50	23.01	-9.51
	5240	48	AVG	12.40	12.42	12.46	23.98	-11.52	1.00	13.42	23.01	-9.59
	5260	52	AVG	19.39	19.25	19.44	23.98	-4.54	0.00	19.39	30.00	-10.61
	5300	60	AVG	19.43	19.45	19.35	23.98	-4.53	0.00	19.45	30.00	-10.55
	5320	64	AVG	19.49	19.33	18.80	23.98	-4.49	0.00	19.49	30.00	-10.51
	5500	100	AVG	17.45	17.41	17.25	23.98	-6.53	1.60	19.05	30.00	-10.95
	5520	104	AVG	19.50	19.43	19.30	23.98	-4.48	1.60	21.10	30.00	-8.90
	5580	116	AVG	19.50	19.47	19.38	23.98	-4.48	1.60	21.10	30.00	-8.90
	5660	132	AVG	19.50	19.50	19.43	23.98	-4.48	1.60	21.10	30.00	-8.90
	5680	136	AVG	19.22	19.21	18.90	23.98	-4.76	1.60	20.82	30.00	-9.18
	5700	140	AVG	16.30	16.30	14.85	23.98	-7.68	1.60	17.90	30.00	-12.10
	5720	144	AVG	19.50	19.38	19.33	23.98	-4.48	1.60	21.10	30.00	-8.90
	5745	149	AVG	19.49	19.42	19.48	30.00	-10.51	2.70	22.19	-	-
	5785	157	AVG	19.50	19.43	19.40	30.00	-10.50	2.70	22.20	-	-
	5825	165	AVG	19.37	19.39	19.35	30.00	-10.61	2.70	22.09	-	-

Table 7-41. ISED Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.50	12.46	12.40	23.98	-11.48	1.00	13.50	23.01	-9.51
	5200	40	AVG	12.47	12.38	12.50	23.98	-11.48	1.00	13.47	23.01	-9.54
	5240	48	AVG	12.44	12.36	12.44	23.98	-11.54	1.00	13.44	23.01	-9.57
	5260	52	AVG	19.27	19.25	19.30	23.98	-4.68	0.00	19.27	30.00	-10.73
	5300	60	AVG	19.32	19.24	19.34	23.98	-4.64	0.00	19.32	30.00	-10.68
	5320	64	AVG	17.74	17.98	17.97	23.98	-6.00	0.00	17.98	30.00	-12.02
	5500	100	AVG	15.85	15.73	15.93	23.98	-8.05	1.60	17.45	30.00	-12.55
	5520	104	AVG	19.32	19.26	18.36	23.98	-4.66	1.60	20.92	30.00	-9.08
	5540	108	AVG	19.45	19.34	19.22	23.98	-4.53	1.60	21.05	30.00	-8.95
	5580	116	AVG	19.38	19.27	19.29	23.98	-4.60	1.60	20.98	30.00	-9.02
	5660	132	AVG	19.41	19.34	19.36	23.98	-4.57	1.60	21.01	30.00	-8.99
	5680	136	AVG	19.42	19.23	17.78	23.98	-4.56	1.60	21.02	30.00	-8.98
	5700	140	AVG	15.46	15.33	14.50	23.98	-8.52	1.60	17.06	30.00	-12.94
	5720	144	AVG	19.32	19.46	19.48	23.98	-4.50	1.60	21.06	30.00	-8.94
	5745	149	AVG	19.32	19.22	19.41	30.00	-10.59	2.70	22.02	-	-
	5785	157	AVG	19.27	19.39	19.34	30.00	-10.61	2.70	22.09	-	-
	5825	165	AVG	19.47	19.27	19.26	30.00	-10.53	2.70	22.17	-	-

Table 7-42. ISED Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 65 of 354

5GHz (20MHz Bandwidth)	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]
				802.11a	802.11n	802.11ax(SU)						
	5180	36	AVG	12.50	12.35	12.35	23.98	-11.48	1.00	13.50	23.01	-9.51
	5200	40	AVG	12.24	12.41	12.35	23.98	-11.57	1.00	13.41	23.01	-9.60
	5220	44	AVG	12.33	12.33	12.37	23.98	-11.61	1.00	13.33	23.01	-9.68
	5240	48	AVG	12.30	12.32	12.42	23.98	-11.56	1.00	13.32	23.01	-9.69
	5260	52	AVG	19.42	19.25	19.31	23.98	-4.56	0.00	19.42	30.00	-10.58
	5280	56	AVG	19.44	19.26	19.37	23.98	-4.54	0.00	19.44	30.00	-10.56
	5300	60	AVG	19.38	19.30	18.98	23.98	-4.60	0.00	19.38	30.00	-10.62
	5320	64	AVG	16.88	16.75	16.75	23.98	-7.10	0.00	16.88	30.00	-13.12
	5500	100	AVG	14.28	14.38	14.27	23.98	-9.60	1.60	15.98	30.00	-14.02
	5520	104	AVG	18.89	18.96	17.79	23.98	-5.02	1.60	20.56	30.00	-9.44
	5540	108	AVG	19.48	19.41	18.90	23.98	-4.50	1.60	21.08	30.00	-8.92
	5560	112	AVG	19.25	19.45	19.33	23.98	-4.53	1.60	21.05	30.00	-8.95
	5580	116	AVG	19.37	19.45	19.46	23.98	-4.52	1.60	21.05	30.00	-8.95
	5660	132	AVG	19.46	19.44	18.94	23.98	-4.52	1.60	21.06	30.00	-8.94
	5680	136	AVG	18.43	18.49	17.41	23.98	-5.49	1.60	20.09	30.00	-9.91
	5700	140	AVG	14.36	14.30	12.74	23.98	-9.62	1.60	15.96	30.00	-14.04
	5720	144	AVG	19.37	19.38	19.29	23.98	-4.60	1.60	20.98	30.00	-9.02
	5745	149	AVG	19.36	19.36	19.40	30.00	-10.60	2.70	22.06	-	-
	5785	157	AVG	19.42	19.25	19.26	30.00	-10.58	2.70	22.12	-	-
	5825	165	AVG	19.32	19.49	19.39	30.00	-10.51	2.70	22.19	-	-

Table 7-43. ISED Antenna 4b 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	14.41	13.96	23.98	-9.57	1.00	15.41	23.01	-7.60
	5230	46	AVG	14.79	14.84	23.98	-9.14	1.00	15.79	23.01	-7.22
	5270	54	AVG	19.29	19.34	23.98	-4.64	0.00	19.29	30.00	-10.71
	5310	62	AVG	15.99	14.77	23.98	-7.99	0.00	15.99	30.00	-14.01
	5510	102	AVG	15.44	14.42	23.98	-8.54	1.60	17.04	30.00	-12.96
	5550	110	AVG	19.43	18.38	23.98	-4.55	1.60	21.03	30.00	-8.97
	5670	134	AVG	17.75	16.98	23.98	-6.23	1.60	19.35	30.00	-10.65
	5710	142	AVG	19.43	19.29	23.98	-4.55	1.60	21.03	30.00	-8.97
	5755	151	AVG	19.41	19.48	30.00	-10.52	2.70	22.11	-	-
	5795	159	AVG	19.35	19.42	30.00	-10.58	2.70	22.05	-	-

Table 7-44. ISED Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	13.86	13.40	23.98	-10.12	1.00	14.86	23.01	-8.15
	5230	46	AVG	15.00	14.92	23.98	-8.98	1.00	16.00	23.01	-7.01
	5270	54	AVG	19.32	18.92	23.98	-4.66	0.00	19.32	30.00	-10.68
	5310	62	AVG	14.90	13.76	23.98	-9.08	0.00	14.90	30.00	-15.10
	5510	102	AVG	14.26	12.93	23.98	-9.72	1.60	15.86	30.00	-14.14
	5550	110	AVG	19.37	17.80	23.98	-4.61	1.60	20.97	30.00	-9.03
	5670	134	AVG	17.36	15.82	23.98	-6.62	1.60	18.96	30.00	-11.04
	5710	142	AVG	19.22	19.37	23.98	-4.61	1.60	20.82	30.00	-9.18
	5755	151	AVG	19.25	19.33	30.00	-10.67	2.70	21.95	-	-
	5795	159	AVG	19.48	19.42	30.00	-10.52	2.70	22.18	-	-

Table 7-45. ISED Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 66 of 354

5GHz (40MHz Bandwidth)	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]
				802.11n	802.11ax(SU)						
	5190	38	AVG	13.42	11.95	23.98	-10.56	1.00	14.42	23.01	-8.59
	5230	46	AVG	14.99	15.00	23.98	-8.98	1.00	15.99	23.01	-7.02
	5270	54	AVG	19.25	18.41	23.98	-4.73	0.00	19.25	30.00	-10.75
	5310	62	AVG	13.92	13.38	23.98	-10.06	0.00	13.92	30.00	-16.08
	5510	102	AVG	12.71	10.81	23.98	-11.27	1.60	14.31	30.00	-15.69
	5550	110	AVG	18.75	17.41	23.98	-5.23	1.60	20.35	30.00	-9.65
	5670	134	AVG	15.96	15.00	23.98	-8.02	1.60	17.56	30.00	-12.44
	5710	142	AVG	19.29	19.36	23.98	-4.62	1.60	20.89	30.00	-9.11
	5755	151	AVG	19.48	19.42	30.00	-10.52	2.70	22.18	-	-
	5795	159	AVG	19.41	19.37	30.00	-10.59	2.70	22.11	-	-

Table 7-46. ISED Antenna 4b 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	13.81	12.86	23.98	-10.17	1.00	14.81	23.01	-8.20
	5290	58	AVG	15.87	14.76	23.98	-8.11	0.00	15.87	30.00	-14.13
	5530	106	AVG	16.40	14.78	23.98	-7.58	1.60	18.00	30.00	-12.00
	5690	138	AVG	19.44	19.49	23.98	-4.49	1.60	21.04	30.00	-8.96
	5775	155	AVG	18.85	17.50	30.00	-11.15	2.70	21.55	-	-

Table 7-47. ISED Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	12.98	12.43	23.98	-11.00	1.00	13.98	23.01	-9.03
	5290	58	AVG	14.81	13.83	23.98	-9.17	0.00	14.81	30.00	-15.19
	5530	106	AVG	14.87	13.98	23.98	-9.11	1.60	16.47	30.00	-13.53
	5690	138	AVG	19.26	19.48	23.98	-4.50	1.60	20.86	30.00	-9.14
	5775	155	AVG	18.44	16.91	30.00	-11.56	2.70	21.14	-	-

Table 7-48. ISED Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	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]
				802.11ac	802.11ax(SU)						
	5210	42	AVG	12.23	11.36	23.98	-11.75	1.00	13.23	23.01	-9.78
	5290	58	AVG	13.47	12.88	23.98	-10.51	0.00	13.47	30.00	-16.53
	5530	106	AVG	12.71	12.29	23.98	-11.27	1.60	14.31	30.00	-15.69
	5690	138	AVG	19.33	19.37	23.98	-4.61	1.60	20.93	30.00	-9.07
	5775	155	AVG	17.42	15.88	30.00	-12.58	2.70	20.12	-	-

Table 7-49. ISED Antenna 4b 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 67 of 354

7.4.5 FCC CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	15.15	15.07	18.12	23.43	-5.31
	5200	40	CDD	AVG	15.12	15.25	18.20	23.43	-5.23
	5240	48	CDD	AVG	15.20	15.10	18.16	23.98	-5.82
	5260	52	CDD	AVG	15.87	15.72	18.81	23.98	-5.17
	5300	60	CDD	AVG	15.70	16.00	18.86	23.98	-5.12
	5320	64	CDD	AVG	15.82	15.90	18.87	23.98	-5.11
	5500	100	CDD	AVG	15.57	15.51	18.55	23.98	-5.43
	5520	104	CDD	AVG	15.61	15.57	18.60	23.98	-5.38
	5580	116	CDD	AVG	15.45	15.63	18.55	23.98	-5.43
	5680	136	CDD	AVG	15.74	15.55	18.66	23.98	-5.32
	5700	140	CDD	AVG	15.68	15.65	18.68	23.98	-5.30
	5720	144	CDD	AVG	15.71	15.50	18.62	23.98	-5.36
	5745	149	CDD	AVG	19.39	19.27	22.34	28.78	-6.44
	5785	157	CDD	AVG	19.37	19.37	22.38	28.78	-6.40
	5825	165	CDD	AVG	19.50	19.48	22.50	28.78	-6.28

Table 7-50. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	14.99	15.00	18.01	23.43	-5.42
	5200	40	CDD	AVG	15.13	15.13	18.14	23.43	-5.29
	5240	48	CDD	AVG	15.13	15.14	18.15	23.98	-5.83
	5260	52	CDD	AVG	15.73	15.87	18.81	23.98	-5.17
	5300	60	CDD	AVG	15.76	15.70	18.74	23.98	-5.24
	5320	64	CDD	AVG	15.81	15.93	18.88	23.98	-5.10
	5500	100	CDD	AVG	15.32	15.30	18.32	23.98	-5.66
	5520	104	CDD	AVG	15.57	15.72	18.66	23.98	-5.32
	5580	116	CDD	AVG	15.75	15.45	18.61	23.98	-5.37
	5680	136	CDD	AVG	15.58	15.58	18.59	23.98	-5.39
	5700	140	CDD	AVG	15.00	14.92	17.97	23.98	-6.01
	5720	144	CDD	AVG	15.75	15.47	18.62	23.98	-5.36
	5745	149	CDD	AVG	19.44	19.31	22.39	28.78	-6.39
	5785	157	CDD	AVG	19.46	19.32	22.40	28.78	-6.38
	5825	165	CDD	AVG	19.33	19.32	22.34	28.78	-6.44

Table 7-51. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 68 of 354

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	15.00	14.83	17.93	23.43	-5.50
	5200	40	CDD	AVG	15.11	15.07	18.10	23.43	-5.33
	5240	48	CDD	AVG	15.06	15.00	18.04	23.98	-5.94
	5260	52	CDD	AVG	15.90	15.78	18.85	23.98	-5.13
	5300	60	CDD	AVG	15.72	15.85	18.80	23.98	-5.18
	5320	64	CDD	AVG	15.80	15.78	18.80	23.98	-5.18
	5500	100	CDD	AVG	13.32	13.28	16.31	23.98	-7.67
	5520	104	CDD	AVG	15.48	15.73	18.62	23.98	-5.36
	5580	116	CDD	AVG	15.55	15.71	18.64	23.98	-5.34
	5680	136	CDD	AVG	15.51	15.62	18.58	23.98	-5.40
	5700	140	CDD	AVG	13.34	13.44	16.40	23.98	-7.58
	5720	144	CDD	AVG	15.60	15.57	18.60	23.98	-5.38
	5745	149	CDD	AVG	19.38	19.37	22.39	28.78	-6.39
	5785	157	CDD	AVG	19.46	19.30	22.39	28.78	-6.39
	5825	165	CDD	AVG	19.43	19.34	22.40	28.78	-6.38

Table 7-52. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	SDM	AVG	16.30	16.30	19.31	23.98	-4.67
	5200	40	SDM	AVG	16.97	16.88	19.94	23.98	-4.04
	5240	48	SDM	AVG	16.75	16.99	19.88	23.98	-4.10
	5260	52	SDM	AVG	16.75	16.96	19.87	23.98	-4.11
	5300	60	SDM	AVG	16.87	16.84	19.87	23.98	-4.11
	5320	64	SDM	AVG	17.00	16.95	19.99	23.98	-3.99
	5500	100	SDM	AVG	16.33	16.35	19.35	23.98	-4.63
	5520	104	SDM	AVG	16.85	16.78	19.83	23.98	-4.15
	5580	116	SDM	AVG	16.77	16.82	19.81	23.98	-4.17
	5680	136	SDM	AVG	17.00	16.97	20.00	23.98	-3.98
	5700	140	SDM	AVG	15.80	15.99	18.91	23.98	-5.07
	5720	144	SDM	AVG	17.00	17.00	20.01	23.98	-3.97
	5745	149	CDD	AVG	19.31	19.30	22.32	28.78	-6.46
	5785	157	CDD	AVG	19.36	19.36	22.37	28.78	-6.41
	5825	165	CDD	AVG	19.49	19.50	22.51	28.78	-6.27

Table 7-53. FCC CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (Low Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	SDM	AVG	15.37	15.30	18.35	23.98	-5.63
	5200	40	SDM	AVG	16.88	16.77	19.84	23.98	-4.14
	5240	48	SDM	AVG	16.70	16.71	19.72	23.98	-4.26
	5260	52	SDM	AVG	16.80	16.80	19.81	23.98	-4.17
	5300	60	SDM	AVG	16.83	16.72	19.79	23.98	-4.19
	5320	64	SDM	AVG	16.86	16.81	19.85	23.98	-4.13
	5500	100	CDD	AVG	15.42	15.35	18.40	23.98	-5.58
	5520	104	SDM	AVG	16.74	16.84	19.80	23.98	-4.18
	5580	116	SDM	AVG	16.88	16.73	19.82	23.98	-4.16
	5680	136	SDM	AVG	16.93	17.00	19.98	23.98	-4.00
	5700	140	CDD	AVG	14.90	14.76	17.84	23.98	-6.14
	5720	144	SDM	AVG	16.90	16.99	19.96	23.98	-4.02
	5745	149	CDD	AVG	19.46	19.31	22.40	28.78	-6.38
	5785	157	CDD	AVG	19.44	19.34	22.40	28.78	-6.38
	5825	165	CDD	AVG	19.35	19.30	22.34	28.78	-6.44

Table 7-54. FCC CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	14.78	14.98	17.89	23.43	-5.54
	5200	40	SDM	AVG	16.78	16.80	19.80	23.98	-4.18
	5240	48	SDM	AVG	16.84	16.87	19.87	23.98	-4.11
	5260	52	SDM	AVG	16.98	16.84	19.92	23.98	-4.06
	5300	60	SDM	AVG	16.99	16.95	19.98	23.98	-4.00
	5320	64	SDM	AVG	16.25	16.20	19.24	23.98	-4.74
	5500	100	CDD	AVG	13.40	13.36	16.39	23.98	-7.59
	5520	104	SDM	AVG	16.96	16.93	19.96	23.98	-4.02
	5580	116	SDM	AVG	16.87	16.94	19.92	23.98	-4.06
	5680	136	SDM	AVG	16.85	16.75	19.81	23.98	-4.17
	5700	140	CDD	AVG	13.40	13.49	16.46	23.98	-7.52
	5720	144	SDM	AVG	16.79	16.94	19.88	23.98	-4.10
	5745	149	CDD	AVG	19.43	19.43	22.44	28.78	-6.34
	5785	157	CDD	AVG	19.32	19.27	22.31	28.78	-6.47
	5825	165	CDD	AVG	19.37	19.43	22.41	28.78	-6.37

Table 7-55. FCC CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	SDM	AVG	15.92	15.85	18.90	23.98	-5.08
	5200	40	SDM	AVG	16.81	16.89	19.86	23.98	-4.12
	5240	48	SDM	AVG	16.83	16.81	19.83	23.98	-4.15
	5260	52	SDM	AVG	16.99	16.87	19.94	23.98	-4.04
	5300	60	SDM	AVG	16.90	16.90	19.91	23.98	-4.07
	5320	64	SDM	AVG	16.75	16.94	19.86	23.98	-4.12
	5500	100	SDM	AVG	16.88	16.90	19.90	23.98	-4.08
	5580	116	SDM	AVG	16.95	16.98	19.98	23.98	-4.00
	5680	136	SDM	AVG	16.87	16.91	19.90	23.98	-4.08
	5700	140	CDD	AVG	13.92	13.89	16.92	23.98	-7.06
	5720	144	SDM	AVG	16.75	16.75	19.76	23.98	-4.22
	5745	149	CDD	AVG	19.30	19.29	22.31	28.78	-6.47
	5785	157	CDD	AVG	19.45	19.42	22.45	28.78	-6.33
	5825	165	CDD	AVG	19.48	19.42	22.46	28.78	-6.32

Table 7-56. FCC CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	SDM	AVG	15.20	15.30	18.26	23.98	-5.72
	5200	40	SDM	AVG	16.81	16.85	19.84	23.98	-4.14
	5240	48	SDM	AVG	16.88	16.90	19.90	23.98	-4.08
	5260	52	SDM	AVG	16.76	16.85	19.82	23.98	-4.16
	5300	60	SDM	AVG	17.00	16.90	19.96	23.98	-4.02
	5320	64	SDM	AVG	16.90	16.85	19.89	23.98	-4.09
	5500	100	CDD	AVG	15.45	15.36	18.42	23.98	-5.56
	5520	104	SDM	AVG	16.98	16.83	19.92	23.98	-4.06
	5580	116	SDM	AVG	16.79	16.83	19.82	23.98	-4.16
	5680	136	SDM	AVG	16.75	17.00	19.89	23.98	-4.09
	5700	140	CDD	AVG	13.43	13.44	16.45	23.98	-7.53
	5720	144	SDM	AVG	16.80	16.88	19.85	23.98	-4.13
	5745	149	CDD	AVG	19.44	19.45	22.46	28.78	-6.32
	5785	157	CDD	AVG	19.45	19.48	22.48	28.78	-6.30
	5825	165	CDD	AVG	19.39	19.50	22.46	28.78	-6.32

Table 7-57. FCC CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	14.29	14.45	17.38	23.43	-6.05
	5200	40	SDM	AVG	16.92	16.76	19.85	23.98	-4.13
	5240	48	SDM	AVG	16.99	16.76	19.89	23.98	-4.09
	5260	52	SDM	AVG	16.97	16.88	19.94	23.98	-4.04
	5300	60	SDM	AVG	16.74	16.82	19.79	23.98	-4.19
	5320	64	SDM	AVG	16.29	16.33	19.32	23.98	-4.66
	5500	100	CDD	AVG	13.32	13.34	16.34	23.98	-7.64
	5520	104	SDM	AVG	16.45	16.45	19.46	23.98	-4.52
	5540	108	SDM	AVG	16.82	16.99	19.92	23.98	-4.06
	5580	116	SDM	AVG	16.75	17.00	19.89	23.98	-4.09
	5680	136	SDM	AVG	16.82	16.91	19.88	23.98	-4.10
	5700	140	CDD	AVG	12.88	12.92	15.91	23.98	-8.07
	5720	144	SDM	AVG	16.89	16.78	19.85	23.98	-4.13
	5745	149	CDD	AVG	19.30	19.30	22.31	28.78	-6.47
	5785	157	CDD	AVG	19.28	19.38	22.34	28.78	-6.44
	5825	165	CDD	AVG	19.30	19.47	22.40	28.78	-6.38

Table 7-58. FCC CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.83	13.77	16.81	23.43	-6.62
	5230	46	SDM	AVG	19.34	19.39	22.38	23.98	-1.60
	5270	54	SDM	AVG	19.37	19.43	22.41	23.98	-1.57
	5310	62	CDD	AVG	15.29	15.20	18.26	23.98	-5.72
	5510	102	CDD	AVG	15.00	15.00	18.01	23.98	-5.97
	5550	110	SDM	AVG	19.46	19.42	22.45	23.98	-1.53
	5630	126	SDM	AVG	19.36	19.50	22.44	23.98	-1.54
	5670	134	CDD	AVG	17.41	17.38	20.41	23.98	-3.57
	5710	142	SDM	AVG	19.44	19.50	22.48	23.98	-1.50
	5755	151	CDD	AVG	19.43	19.44	22.45	28.78	-6.33
	5795	159	CDD	AVG	19.39	19.39	22.40	28.78	-6.38

Table 7-59. FCC CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (Low Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.35	13.22	16.30	23.43	-7.13
	5230	46	SDM	AVG	18.97	18.91	21.95	23.98	-2.03
	5270	54	SDM	AVG	19.47	19.34	22.42	23.98	-1.56
	5310	62	CDD	AVG	14.20	14.32	17.27	23.98	-6.71
	5510	102	CDD	AVG	13.90	13.79	16.86	23.98	-7.12
	5550	110	SDM	AVG	18.88	18.74	21.82	23.98	-2.16
	5590	118	SDM	AVG	19.25	19.30	22.29	23.98	-1.69
	5630	126	SDM	AVG	19.30	19.30	22.31	23.98	-1.67
	5670	134	CDD	AVG	16.22	16.33	19.29	23.98	-4.69
	5710	142	SDM	AVG	19.20	19.35	22.29	23.98	-1.69
	5755	151	CDD	AVG	19.43	19.44	22.45	28.78	-6.33
	5795	159	CDD	AVG	19.50	19.42	22.47	28.78	-6.31

Table 7-60. FCC CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	12.34	12.47	15.42	23.43	-8.01
	5230	46	CDD	AVG	17.86	17.90	20.89	23.43	-2.54
	5270	54	SDM	AVG	19.35	19.40	22.39	23.98	-1.59
	5310	62	CDD	AVG	13.32	13.21	16.28	23.98	-7.70
	5510	102	CDD	AVG	11.32	11.20	14.27	23.98	-9.71
	5550	110	CDD	AVG	18.21	18.48	21.36	23.98	-2.62
	5590	118	SDM	AVG	19.39	19.33	22.37	23.98	-1.61
	5630	126	SDM	AVG	19.41	19.45	22.44	23.98	-1.54
	5670	134	CDD	AVG	14.94	14.86	17.91	23.98	-6.07
	5710	142	SDM	AVG	19.24	19.37	22.32	23.98	-1.66
	5755	151	CDD	AVG	19.23	19.29	22.27	28.78	-6.51
	5795	159	CDD	AVG	19.33	19.32	22.34	28.78	-6.44

Table 7-61. FCC CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.46	13.50	16.49	23.43	-6.94
	5230	46	CDD	AVG	18.18	18.20	21.20	23.43	-2.23
	5270	54	SDM	AVG	19.28	19.35	22.33	23.98	-1.65
	5310	62	CDD	AVG	14.25	14.30	17.29	23.98	-6.69
	5510	102	CDD	AVG	13.43	13.33	16.39	23.98	-7.59
	5550	110	CDD	AVG	17.86	17.86	20.87	23.98	-3.11
	5590	118	SDM	AVG	19.48	19.30	22.40	23.98	-1.58
	5630	126	SDM	AVG	19.47	19.39	22.44	23.98	-1.54
	5670	134	CDD	AVG	16.21	16.41	19.32	23.98	-4.66
	5710	142	SDM	AVG	19.50	19.45	22.49	23.98	-1.49
	5755	151	CDD	AVG	19.38	19.46	22.43	28.78	-6.35
	5795	159	CDD	AVG	19.38	19.43	22.42	28.78	-6.36

Table 7-62. FCC CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	12.95	12.84	15.91	23.43	-7.52
	5230	46	CDD	AVG	17.92	17.96	20.95	23.43	-2.48
	5270	54	CDD	AVG	18.50	18.24	21.38	23.98	-2.60
	5310	62	CDD	AVG	13.20	13.33	16.28	23.98	-7.70
	5510	102	CDD	AVG	12.40	12.22	15.32	23.98	-8.66
	5550	110	CDD	AVG	17.35	17.40	20.39	23.98	-3.59
	5590	118	SDM	AVG	19.26	19.26	22.27	23.98	-1.71
	5630	126	SDM	AVG	18.71	18.87	21.80	23.98	-2.18
	5670	134	CDD	AVG	15.32	15.24	18.29	23.98	-5.69
	5710	142	SDM	AVG	19.44	19.33	22.40	23.98	-1.58
	5755	151	CDD	AVG	19.37	19.33	22.36	28.78	-6.42
	5795	159	CDD	AVG	19.36	19.36	22.37	28.78	-6.41

Table 7-63. FCC CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	11.60	11.45	14.54	23.43	-8.89
	5230	46	CDD	AVG	17.36	17.42	20.40	23.43	-3.03
	5270	54	CDD	AVG	17.77	17.92	20.86	23.98	-3.12
	5310	62	CDD	AVG	12.71	12.97	15.85	23.98	-8.13
	5510	102	CDD	AVG	10.46	10.25	13.37	23.98	-10.61
	5550	110	CDD	AVG	16.81	16.87	19.85	23.98	-4.13
	5590	118	CDD	AVG	17.98	17.77	20.89	23.98	-3.09
	5630	126	CDD	AVG	17.86	17.83	20.86	23.98	-3.12
	5670	134	CDD	AVG	14.26	14.50	17.39	23.98	-6.59
	5710	142	SDM	AVG	19.36	19.35	22.37	23.98	-1.61
	5755	151	CDD	AVG	19.30	19.45	22.39	28.78	-6.39
	5795	159	CDD	AVG	19.20	19.40	22.31	28.78	-6.47

Table 7-64. FCC CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	12.84	12.87	15.87	23.43	-7.56
	5290	58	CDD	AVG	14.33	14.47	17.41	23.98	-6.57
	5530	106	CDD	AVG	14.47	14.40	17.45	23.98	-6.53
	5610	122	CDD	AVG	18.00	17.98	21.00	23.98	-2.98
	5690	138	CDD	AVG	19.46	19.34	22.41	23.98	-1.57
	5775	155	CDD	AVG	18.25	18.35	21.31	28.78	-7.47

Table 7-65. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	11.70	12.00	14.86	23.43	-8.57
	5290	58	CDD	AVG	13.46	13.39	16.44	23.98	-7.54
	5530	106	CDD	AVG	13.20	13.32	16.27	23.98	-7.71
	5610	122	CDD	AVG	17.81	17.70	20.77	23.98	-3.21
	5690	138	CDD	AVG	19.44	19.21	22.34	23.98	-1.64
	5775	155	CDD	AVG	17.78	17.83	20.82	28.78	-7.96

Table 7-66. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device		Page 75 of 354

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.81	10.82	13.83	23.43	-9.60
	5290	58	CDD	AVG	12.24	12.25	15.26	23.98	-8.72
	5530	106	CDD	AVG	11.88	11.87	14.89	23.98	-9.09
	5610	122	CDD	AVG	16.79	16.74	19.78	23.98	-4.20
	5690	138	CDD	AVG	19.45	19.27	22.37	23.98	-1.61
	5775	155	CDD	AVG	16.97	16.85	19.92	28.78	-8.86

Table 7-67. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	12.32	12.22	15.28	23.43	-8.15
	5290	58	CDD	AVG	14.28	14.20	17.25	23.98	-6.73
	5530	106	CDD	AVG	14.00	13.97	17.00	23.98	-6.98
	5610	122	CDD	AVG	17.30	17.35	20.34	23.98	-3.64
	5690	138	CDD	AVG	19.36	19.37	22.38	23.98	-1.60
	5775	155	CDD	AVG	16.83	16.96	19.91	28.78	-8.87

Table 7-68. FCC CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	11.33	11.25	14.30	23.43	-9.13
	5290	58	CDD	AVG	13.33	13.33	16.34	23.98	-7.64
	5530	106	CDD	AVG	12.87	12.75	15.82	23.98	-8.16
	5610	122	CDD	AVG	16.79	16.88	19.85	23.98	-4.13
	5690	138	CDD	AVG	19.33	19.26	22.31	23.98	-1.67
	5775	155	CDD	AVG	15.86	15.92	18.90	28.78	-9.88

Table 7-69. FCC CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.84	11.00	13.93	23.43	-9.50
	5290	58	CDD	AVG	11.81	11.87	14.85	23.98	-9.13
	5530	106	CDD	AVG	11.83	11.77	14.81	23.98	-9.17
	5610	122	CDD	AVG	16.32	16.22	19.28	23.98	-4.70
	5690	138	CDD	AVG	19.33	19.34	22.35	23.98	-1.63
	5775	155	CDD	AVG	14.75	14.98	17.88	28.78	-10.90

Table 7-70. FCC CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 76 of 354

7.4.6 ISED CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	8.20	8.16	11.19	23.43	-12.24	6.55	17.74	23.01	-5.27
	5200	40	CDD	AVG	8.25	8.20	11.24	23.43	-12.19	6.55	17.79	23.01	-5.22
	5240	48	CDD	AVG	8.11	8.23	11.18	23.43	-12.25	6.55	17.73	23.01	-5.28
	5260	52	CDD	AVG	15.87	15.72	18.81	23.98	-5.17	5.99	24.80	30.00	-5.20
	5300	60	CDD	AVG	15.70	16.00	18.86	23.98	-5.12	5.99	24.85	30.00	-5.15
	5320	64	CDD	AVG	15.82	15.90	18.87	23.98	-5.11	5.99	24.86	30.00	-5.14
	5500	100	CDD	AVG	15.57	15.51	18.55	23.98	-5.43	6.01	24.56	30.00	-5.44
	5520	104	CDD	AVG	15.61	15.57	18.60	23.98	-5.38	6.01	24.61	30.00	-5.39
	5580	116	CDD	AVG	15.45	15.63	18.55	23.98	-5.43	6.01	24.56	30.00	-5.44
	5680	136	CDD	AVG	15.74	15.55	18.66	23.98	-5.32	6.01	24.67	30.00	-5.33
	5700	140	CDD	AVG	15.68	15.65	18.68	23.98	-5.30	6.01	24.69	30.00	-5.31
	5720	144	CDD	AVG	15.71	15.50	18.62	23.98	-5.36	6.01	24.63	30.00	-5.37
	5745	149	CDD	AVG	19.39	19.27	22.34	28.78	-6.44	7.22	29.56	-	-
	5785	157	CDD	AVG	19.37	19.37	22.38	28.78	-6.40	7.22	29.60	-	-
	5825	165	CDD	AVG	19.50	19.48	22.50	28.78	-6.28	7.22	29.72	-	-

Table 7-71. ISED CDD/SDM 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	8.25	8.23	11.25	23.43	-12.18	6.55	17.80	23.01	-5.21
	5200	40	CDD	AVG	8.25	8.19	11.23	23.43	-12.20	6.55	17.78	23.01	-5.23
	5240	48	CDD	AVG	8.23	8.25	11.25	23.43	-12.18	6.55	17.80	23.01	-5.21
	5260	52	CDD	AVG	15.73	15.87	18.81	23.98	-5.17	5.99	24.80	30.00	-5.20
	5300	60	CDD	AVG	15.76	15.70	18.74	23.98	-5.24	5.99	24.73	30.00	-5.27
	5320	64	CDD	AVG	15.81	15.93	18.88	23.98	-5.10	5.99	24.87	30.00	-5.13
	5500	100	CDD	AVG	15.32	15.30	18.32	23.98	-5.66	6.01	24.33	30.00	-5.67
	5520	104	CDD	AVG	15.57	15.72	18.66	23.98	-5.32	6.01	24.67	30.00	-5.33
	5580	116	CDD	AVG	15.75	15.45	18.61	23.98	-5.37	6.01	24.62	30.00	-5.38
	5680	136	CDD	AVG	15.58	15.58	18.59	23.98	-5.39	6.01	24.60	30.00	-5.40
	5700	140	CDD	AVG	15.00	14.92	17.97	23.98	-6.01	6.01	23.98	30.00	-6.02
	5720	144	CDD	AVG	15.75	15.47	18.62	23.98	-5.36	6.01	24.63	30.00	-5.37
	5745	149	CDD	AVG	19.44	19.31	22.39	28.78	-6.39	7.22	29.61	-	-
	5785	157	CDD	AVG	19.46	19.32	22.40	28.78	-6.38	7.22	29.62	-	-
	5825	165	CDD	AVG	19.33	19.32	22.34	28.78	-6.44	7.22	29.56	-	-

Table 7-72. ISED CDD/SDM 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	8.12	8.07	11.11	23.43	-12.32	6.55	17.66	23.01	-5.35
	5200	40	CDD	AVG	8.23	8.25	11.25	23.43	-12.18	6.55	17.80	23.01	-5.21
	5240	48	CDD	AVG	8.04	8.18	11.12	23.43	-12.31	6.55	17.67	23.01	-5.34
	5260	52	CDD	AVG	15.90	15.78	18.85	23.98	-5.13	5.99	24.84	30.00	-5.16
	5300	60	CDD	AVG	15.72	15.85	18.80	23.98	-5.18	5.99	24.79	30.00	-5.21
	5320	64	CDD	AVG	15.80	15.78	18.80	23.98	-5.18	5.99	24.79	30.00	-5.21
	5500	100	CDD	AVG	13.32	13.28	16.31	23.98	-7.67	6.01	22.32	30.00	-7.68
	5520	104	CDD	AVG	15.48	15.73	18.62	23.98	-5.36	6.01	24.63	30.00	-5.37
	5580	116	CDD	AVG	15.55	15.71	18.64	23.98	-5.34	6.01	24.65	30.00	-5.35
	5680	136	CDD	AVG	15.51	15.62	18.58	23.98	-5.40	6.01	24.59	30.00	-5.41
	5700	140	CDD	AVG	13.34	13.44	16.40	23.98	-7.58	6.01	22.41	30.00	-7.59
	5720	144	CDD	AVG	15.60	15.57	18.60	23.98	-5.38	6.01	24.61	30.00	-5.39
	5745	149	CDD	AVG	19.38	19.37	22.39	28.78	-6.39	7.22	29.61	-	-
	5785	157	CDD	AVG	19.46	19.30	22.39	28.78	-6.39	7.22	29.61	-	-
	5825	165	CDD	AVG	19.43	19.34	22.40	28.78	-6.38	7.22	29.62	-	-

Table 7-73. ISED CDD/SDM 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 77 of 354

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	10.94	10.91	13.94	23.98	-10.04	3.81	17.75	23.01	-5.26
	5200	40	SDM	AVG	10.97	10.81	13.90	23.98	-10.08	3.81	17.71	23.01	-5.30
	5240	48	SDM	AVG	10.86	10.91	13.90	23.98	-10.08	3.81	17.71	23.01	-5.30
	5260	52	SDM	AVG	16.75	16.96	19.87	23.98	-4.11	3.34	23.21	30.00	-6.79
	5300	60	SDM	AVG	16.87	16.84	19.87	23.98	-4.11	3.34	23.21	30.00	-6.79
	5320	64	SDM	AVG	17.00	16.95	19.99	23.98	-3.99	3.34	23.33	30.00	-6.67
	5500	100	SDM	AVG	16.33	16.35	19.35	23.98	-4.63	3.09	22.44	30.00	-7.56
	5520	104	SDM	AVG	16.85	16.78	19.83	23.98	-4.15	3.09	22.92	30.00	-7.08
	5580	116	SDM	AVG	16.77	16.82	19.81	23.98	-4.17	3.09	22.90	30.00	-7.10
	5680	136	SDM	AVG	17.00	16.97	20.00	23.98	-3.98	3.09	23.09	30.00	-6.91
	5700	140	SDM	AVG	15.80	15.99	18.91	23.98	-5.07	3.09	22.00	30.00	-8.00
	5720	144	SDM	AVG	17.00	17.00	20.01	23.98	-3.97	3.09	23.10	30.00	-6.90
	5745	149	CDD	AVG	19.31	19.30	22.32	28.78	-6.46	7.22	29.54	-	-
	5785	157	CDD	AVG	19.36	19.36	22.37	28.78	-6.41	7.22	29.59	-	-
	5825	165	CDD	AVG	19.49	19.50	22.51	28.78	-6.27	7.22	29.73	-	-

Table 7-74. ISED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	11.00	10.82	13.92	23.98	-10.06	3.81	17.73	23.01	-5.28
	5200	40	SDM	AVG	10.86	10.91	13.90	23.98	-10.08	3.81	17.71	23.01	-5.30
	5240	48	SDM	AVG	10.86	10.70	13.79	23.98	-10.19	3.81	17.60	23.01	-5.41
	5260	52	SDM	AVG	16.80	16.80	19.81	23.98	-4.17	3.34	23.15	30.00	-6.85
	5300	60	SDM	AVG	16.83	16.72	19.79	23.98	-4.19	3.34	23.13	30.00	-6.87
	5320	64	SDM	AVG	16.86	16.81	19.85	23.98	-4.13	3.34	23.19	30.00	-6.81
	5500	100	CDD	AVG	15.42	15.35	18.40	23.98	-5.58	6.01	24.41	30.00	-5.59
	5520	104	SDM	AVG	16.74	16.84	19.80	23.98	-4.18	3.09	22.89	30.00	-7.11
	5580	116	SDM	AVG	16.88	16.73	19.82	23.98	-4.16	3.09	22.91	30.00	-7.09
	5680	136	SDM	AVG	16.93	17.00	19.98	23.98	-4.00	3.09	23.07	30.00	-6.93
	5700	140	CDD	AVG	14.90	14.76	17.84	23.98	-6.14	6.01	23.85	30.00	-6.15
	5720	144	SDM	AVG	16.90	16.99	19.96	23.98	-4.02	3.09	23.05	30.00	-6.95
	5745	149	CDD	AVG	19.46	19.31	22.40	28.78	-6.38	7.22	29.62	-	-
	5785	157	CDD	AVG	19.44	19.34	22.40	28.78	-6.38	7.22	29.62	-	-
	5825	165	CDD	AVG	19.35	19.30	22.34	28.78	-6.44	7.22	29.56	-	-

Table 7-75. ISED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	10.90	10.96	13.94	23.98	-10.04	3.81	17.75	23.01	-5.26
	5200	40	SDM	AVG	10.99	10.97	13.99	23.98	-9.99	3.81	17.80	23.01	-5.21
	5240	48	SDM	AVG	10.94	10.96	13.96	23.98	-10.02	3.81	17.77	23.01	-5.24
	5260	52	SDM	AVG	16.98	16.84	19.92	23.98	-4.06	3.34	23.26	30.00	-6.74
	5300	60	SDM	AVG	16.99	16.95	19.98	23.98	-4.00	3.34	23.32	30.00	-6.68
	5320	64	SDM	AVG	16.25	16.20	19.24	23.98	-4.74	3.34	22.58	30.00	-7.42
	5500	100	CDD	AVG	13.40	13.36	16.39	23.98	-7.59	6.01	22.40	30.00	-7.60
	5520	104	SDM	AVG	16.96	16.93	19.96	23.98	-4.02	3.09	23.05	30.00	-6.95
	5580	116	SDM	AVG	16.87	16.94	19.92	23.98	-4.06	3.09	23.01	30.00	-6.99
	5680	136	SDM	AVG	16.85	16.75	19.81	23.98	-4.17	3.09	22.90	30.00	-7.10
	5700	140	CDD	AVG	13.40	13.49	16.46	23.98	-7.52	6.01	22.47	30.00	-7.53
	5720	144	SDM	AVG	16.79	16.94	19.88	23.98	-4.10	3.09	22.97	30.00	-7.03
	5745	149	CDD	AVG	19.43	19.43	22.44	28.78	-6.34	7.22	29.66	-	-
	5785	157	CDD	AVG	19.32	19.27	22.31	28.78	-6.47	7.22	29.53	-	-
	5825	165	CDD	AVG	19.37	19.43	22.41	28.78	-6.37	7.22	29.63	-	-

Table 7-76. ISED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 78 of 354

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	10.83	10.82	13.84	23.98	-10.14	3.81	17.65	23.01	-5.36
	5200	40	SDM	AVG	10.91	10.70	13.82	23.98	-10.16	3.81	17.63	23.01	-5.38
	5240	48	SDM	AVG	10.91	10.88	13.91	23.98	-10.07	3.81	17.72	23.01	-5.29
	5260	52	SDM	AVG	16.99	16.87	19.94	23.98	-4.04	3.34	23.28	30.00	-6.72
	5300	60	SDM	AVG	16.90	16.90	19.91	23.98	-4.07	3.34	23.25	30.00	-6.75
	5320	64	SDM	AVG	16.75	16.94	19.86	23.98	-4.12	3.34	23.20	30.00	-6.80
	5500	100	SDM	AVG	16.88	16.90	19.90	23.98	-4.08	3.09	22.99	30.00	-7.01
	5580	116	SDM	AVG	16.95	16.98	19.98	23.98	-4.00	3.09	23.07	30.00	-6.93
	5680	136	SDM	AVG	16.87	16.91	19.90	23.98	-4.08	3.09	22.99	30.00	-7.01
	5700	140	CDD	AVG	13.92	13.89	16.92	23.98	-7.06	6.01	22.93	30.00	-7.07
	5720	144	SDM	AVG	16.75	16.75	19.76	23.98	-4.22	3.09	22.85	30.00	-7.15
	5745	149	CDD	AVG	19.30	19.29	22.31	28.78	-6.47	7.22	29.53	-	-
	5785	157	CDD	AVG	19.45	19.42	22.45	28.78	-6.33	7.22	29.67	-	-
	5825	165	CDD	AVG	19.48	19.42	22.46	28.78	-6.32	7.22	29.68	-	-

Table 7-77. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	10.94	10.90	13.93	23.98	-10.05	3.81	17.74	23.01	-5.27
	5200	40	SDM	AVG	11.00	10.88	13.95	23.98	-10.03	3.81	17.76	23.01	-5.25
	5240	48	SDM	AVG	10.71	10.86	13.80	23.98	-10.18	3.81	17.61	23.01	-5.40
	5260	52	SDM	AVG	16.76	16.85	19.82	23.98	-4.16	3.34	23.16	30.00	-6.84
	5300	60	SDM	AVG	17.00	16.90	19.96	23.98	-4.02	3.34	23.30	30.00	-6.70
	5320	64	SDM	AVG	16.90	16.85	19.89	23.98	-4.09	3.34	23.23	30.00	-6.77
	5500	100	CDD	AVG	15.45	15.36	18.42	23.98	-5.56	6.01	24.43	30.00	-5.57
	5520	104	SDM	AVG	16.98	16.83	19.92	23.98	-4.06	3.09	23.01	30.00	-6.99
	5580	116	SDM	AVG	16.79	16.83	19.82	23.98	-4.16	3.09	22.91	30.00	-7.09
	5680	136	SDM	AVG	16.75	17.00	19.89	23.98	-4.09	3.09	22.98	30.00	-7.02
	5700	140	CDD	AVG	13.43	13.44	16.45	23.98	-7.53	6.01	22.46	30.00	-7.54
	5720	144	SDM	AVG	16.80	16.88	19.85	23.98	-4.13	3.09	22.94	30.00	-7.06
	5745	149	CDD	AVG	19.44	19.45	22.46	28.78	-6.32	7.22	29.68	-	-
	5785	157	CDD	AVG	19.45	19.48	22.48	28.78	-6.30	7.22	29.70	-	-
	5825	165	CDD	AVG	19.39	19.50	22.46	28.78	-6.32	7.22	29.68	-	-

Table 7-78. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	10.82	10.88	13.86	23.98	-10.12	3.81	17.67	23.01	-5.34
	5200	40	SDM	AVG	10.90	10.95	13.94	23.98	-10.04	3.81	17.75	23.01	-5.26
	5240	48	SDM	AVG	10.91	11.00	13.97	23.98	-10.01	3.81	17.78	23.01	-5.23
	5260	52	SDM	AVG	16.97	16.88	19.94	23.98	-4.04	3.34	23.28	30.00	-6.72
	5300	60	SDM	AVG	16.74	16.82	19.79	23.98	-4.19	3.34	23.13	30.00	-6.87
	5320	64	SDM	AVG	16.29	16.33	19.32	23.98	-4.66	3.34	22.66	30.00	-7.34
	5500	100	CDD	AVG	13.32	13.34	16.34	23.98	-7.64	6.01	22.35	30.00	-7.65
	5520	104	SDM	AVG	16.45	16.45	19.46	23.98	-4.52	3.09	22.55	30.00	-7.45
	5540	108	SDM	AVG	16.82	16.99	19.92	23.98	-4.06	3.09	23.01	30.00	-6.99
	5580	116	SDM	AVG	16.75	17.00	19.89	23.98	-4.09	3.09	22.98	30.00	-7.02
	5680	136	SDM	AVG	16.82	16.91	19.88	23.98	-4.10	3.09	22.97	30.00	-7.03
	5700	140	CDD	AVG	12.88	12.92	15.91	23.98	-8.07	6.01	21.92	30.00	-8.08
	5720	144	SDM	AVG	16.89	16.78	19.85	23.98	-4.13	3.09	22.94	30.00	-7.06
	5745	149	CDD	AVG	19.30	19.30	22.31	28.78	-6.47	7.22	29.53	-	-
	5785	157	CDD	AVG	19.28	19.38	22.34	28.78	-6.44	7.22	29.56	-	-
	5825	165	CDD	AVG	19.30	19.47	22.40	28.78	-6.38	7.22	29.62	-	-

Table 7-79. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 79 of 354

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.83	13.77	16.81	23.98	-7.17	3.81	20.62	23.01	-2.39
	5230	46	SDM	AVG	13.77	13.95	16.87	23.98	-7.11	3.81	20.68	23.01	-2.33
	5270	54	SDM	AVG	19.37	19.43	22.41	23.98	-1.57	3.34	25.75	30.00	-4.25
	5310	62	CDD	AVG	15.29	15.20	18.26	23.98	-5.72	5.99	24.25	30.00	-5.75
	5510	102	CDD	AVG	15.00	15.00	18.01	23.98	-5.97	6.01	24.02	30.00	-5.98
	5550	110	SDM	AVG	19.46	19.42	22.45	23.98	-1.53	3.09	25.54	30.00	-4.46
	5670	134	CDD	AVG	17.41	17.38	20.41	23.98	-3.57	6.01	26.42	30.00	-3.58
	5710	142	SDM	AVG	19.44	19.50	22.48	23.98	-1.50	3.09	25.57	30.00	-4.43
	5755	151	CDD	AVG	19.43	19.44	22.45	28.78	-6.33	7.22	29.67	-	-
	5795	159	CDD	AVG	19.39	19.39	22.40	28.78	-6.38	7.22	29.62	-	-

Table 7-80. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.35	13.22	16.30	23.98	-7.68	3.81	20.11	23.01	-2.90
	5230	46	SDM	AVG	13.81	13.84	16.84	23.98	-7.14	3.81	20.65	23.01	-2.36
	5270	54	SDM	AVG	19.47	19.34	22.42	23.98	-1.56	3.34	25.76	30.00	-4.24
	5310	62	CDD	AVG	14.20	14.32	17.27	23.98	-6.71	5.99	23.26	30.00	-6.74
	5510	102	CDD	AVG	13.90	13.79	16.86	23.98	-7.12	6.01	22.87	30.00	-7.13
	5550	110	SDM	AVG	18.88	18.74	21.82	23.98	-2.16	3.09	24.91	30.00	-5.09
	5670	134	CDD	AVG	16.22	16.33	19.29	23.98	-4.69	6.01	25.30	30.00	-4.70
	5710	142	SDM	AVG	19.20	19.35	22.29	23.98	-1.69	3.09	25.38	30.00	-4.62
	5755	151	CDD	AVG	19.43	19.44	22.45	28.78	-6.33	7.22	29.67	-	-
	5795	159	CDD	AVG	19.50	19.42	22.47	28.78	-6.31	7.22	29.69	-	-

Table 7-81. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	12.34	12.47	15.42	23.98	-8.56	3.81	19.23	23.01	-3.78
	5230	46	SDM	AVG	13.86	13.92	16.90	23.98	-7.08	3.81	20.71	23.01	-2.30
	5270	54	SDM	AVG	19.35	19.40	22.39	23.98	-1.59	3.34	25.73	30.00	-4.27
	5310	62	CDD	AVG	13.32	13.21	16.28	23.98	-7.70	5.99	22.27	30.00	-7.73
	5510	102	CDD	AVG	11.32	11.20	14.27	23.98	-9.71	6.01	20.28	30.00	-9.72
	5550	110	CDD	AVG	18.21	18.48	21.36	23.98	-2.62	6.01	27.37	30.00	-2.63
	5670	134	CDD	AVG	14.94	14.86	17.91	23.98	-6.07	6.01	23.92	30.00	-6.08
	5710	142	SDM	AVG	19.24	19.37	22.32	23.98	-1.66	3.09	25.41	30.00	-4.59
	5755	151	CDD	AVG	19.23	19.29	22.27	28.78	-6.51	7.22	29.49	-	-
	5795	159	CDD	AVG	19.33	19.32	22.24	28.78	-6.44	7.22	29.56	-	-

Table 7-82. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.46	13.50	16.49	23.98	-7.49	3.81	20.30	23.01	-2.71
	5230	46	SDM	AVG	13.83	13.80	16.83	23.98	-7.15	3.81	20.64	23.01	-2.37
	5270	54	SDM	AVG	19.28	19.35	22.33	23.98	-1.65	3.34	25.67	30.00	-4.33
	5310	62	CDD	AVG	14.25	14.30	17.29	23.98	-6.69	5.99	23.28	30.00	-6.72
	5510	102	CDD	AVG	13.43	13.33	16.39	23.98	-7.59	6.01	22.40	30.00	-7.60
	5550	110	CDD	AVG	17.86	17.86	20.87	23.98	-3.11	6.01	26.88	30.00	-3.12
	5670	134	CDD	AVG	16.21	16.41	19.32	23.98	-4.66	6.01	25.33	30.00	-4.67
	5710	142	SDM	AVG	19.50	19.45	22.49	23.98	-1.49	3.09	25.58	30.00	-4.42
	5755	151	CDD	AVG	19.38	19.46	22.43	28.78	-6.35	7.22	29.65	-	-
	5795	159	CDD	AVG	19.38	19.43	22.42	28.78	-6.36	7.22	29.64	-	-

Table 7-83. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 80 of 354

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	12.95	12.84	15.91	23.98	-8.07	3.81	19.72	23.01	-3.29
	5230	46	SDM	AVG	13.91	13.87	16.90	23.98	-7.08	3.81	20.71	23.01	-2.30
	5270	54	CDD	AVG	18.50	18.24	21.38	23.98	-2.60	5.99	27.37	30.00	-2.63
	5310	62	CDD	AVG	13.20	13.33	16.28	23.98	-7.70	5.99	22.27	30.00	-7.73
	5510	102	CDD	AVG	12.40	12.22	15.32	23.98	-8.66	6.01	21.33	30.00	-8.67
	5550	110	CDD	AVG	17.35	17.40	20.39	23.98	-3.59	6.01	26.40	30.00	-3.60
	5670	134	CDD	AVG	15.32	15.24	18.29	23.98	-5.69	6.01	24.30	30.00	-5.70
	5710	142	SDM	AVG	19.44	19.33	22.40	23.98	-1.58	3.09	25.49	30.00	-4.51
	5755	151	CDD	AVG	19.37	19.33	22.36	28.78	-6.42	7.22	29.58	-	-
	5795	159	CDD	AVG	19.36	19.36	22.37	28.78	-6.41	7.22	29.59	-	-

Table 7-84. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	11.60	11.45	14.54	23.98	-9.44	3.81	18.35	23.01	-4.66
	5230	46	SDM	AVG	13.90	13.94	16.93	23.98	-7.05	3.81	20.74	23.01	-2.27
	5270	54	CDD	AVG	17.77	17.92	20.86	23.98	-3.12	5.99	26.85	30.00	-3.15
	5310	62	CDD	AVG	12.71	12.97	15.85	23.98	-8.13	5.99	21.84	30.00	-8.16
	5510	102	CDD	AVG	10.46	10.25	13.37	23.98	-10.61	6.01	19.38	30.00	-10.62
	5550	110	CDD	AVG	16.81	16.87	19.85	23.98	-4.13	6.01	25.86	30.00	-4.14
	5670	134	CDD	AVG	14.26	14.50	17.39	23.98	-6.59	6.01	23.40	30.00	-6.60
	5710	142	SDM	AVG	19.36	19.35	22.37	23.98	-1.61	3.09	25.46	30.00	-4.54
	5755	151	CDD	AVG	19.30	19.45	22.39	28.78	-6.39	7.22	29.61	-	-
	5795	159	CDD	AVG	19.20	19.40	22.31	28.78	-6.47	7.22	29.53	-	-

Table 7-85. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	12.84	12.87	15.87	23.98	-8.11	3.81	19.68	23.01	-3.33
	5290	58	CDD	AVG	14.33	14.47	17.41	23.98	-6.57	5.99	23.40	30.00	-6.60
	5530	106	CDD	AVG	14.47	14.40	17.45	23.98	-6.53	6.01	23.46	30.00	-6.54
	5690	138	CDD	AVG	19.46	19.34	22.41	23.98	-1.57	6.01	28.42	30.00	-1.58
	5775	155	CDD	AVG	18.25	18.35	21.31	28.78	-7.47	7.22	28.53	-	-

Table 7-86. ISED CDD/SDM 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	11.70	12.00	14.86	23.98	-9.12	3.81	18.67	23.01	-4.34
	5290	58	CDD	AVG	13.46	13.39	16.44	23.98	-7.54	5.99	22.43	30.00	-7.57
	5530	106	CDD	AVG	13.20	13.32	16.27	23.98	-7.71	6.01	22.28	30.00	-7.72
	5690	138	CDD	AVG	19.44	19.21	22.34	23.98	-1.64	6.01	28.35	30.00	-1.65
	5775	155	CDD	AVG	17.78	17.83	20.82	28.78	-7.96	7.22	28.04	-	-

Table 7-87. ISED CDD/SDM 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	10.81	10.82	13.83	23.98	-10.15	3.81	17.64	23.01	-5.37
	5290	58	CDD	AVG	12.24	12.25	15.26	23.98	-8.72	5.99	21.25	30.00	-8.75
	5530	106	CDD	AVG	11.88	11.87	14.89	23.98	-9.09	6.01	20.90	30.00	-9.10
	5690	138	CDD	AVG	19.45	19.27	22.37	23.98	-1.61	6.01	28.38	30.00	-1.62
	5775	155	CDD	AVG	16.97	16.85	19.92	28.78	-8.86	7.22	27.14	-	-

Table 7-88. ISED CDD/SDM 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	12.32	12.22	15.28	23.98	-8.70	3.81	19.09	23.01	-3.92
	5290	58	CDD	AVG	14.28	14.20	17.25	23.98	-6.73	5.99	23.24	30.00	-6.76
	5530	106	CDD	AVG	14.00	13.97	17.00	23.98	-6.98	6.01	23.01	30.00	-6.99
	5690	138	CDD	AVG	19.36	19.37	22.38	23.98	-1.60	6.01	28.39	30.00	-1.61
	5775	155	CDD	AVG	16.83	16.96	19.91	28.78	-8.87	7.22	27.13	-	-

Table 7-89. ISSED CDD/SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	11.33	11.25	14.30	23.98	-9.68	3.81	18.11	23.01	-4.90
	5290	58	CDD	AVG	13.33	13.33	16.34	23.98	-7.64	5.99	22.33	30.00	-7.67
	5530	106	CDD	AVG	12.87	12.75	15.82	23.98	-8.16	6.01	21.83	30.00	-8.17
	5690	138	CDD	AVG	19.33	19.26	22.31	23.98	-1.67	6.01	28.32	30.00	-1.68
	5775	155	CDD	AVG	15.86	15.92	18.90	28.78	-9.88	7.22	26.12	-	-

Table 7-90. ISSED CDD/SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	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 5b	Antenna 4b	Summed						
	5210	42	SDM	AVG	10.84	11.00	13.93	23.98	-10.05	3.81	17.74	23.01	-5.27
	5290	58	CDD	AVG	11.81	11.87	14.85	23.98	-9.13	5.99	20.84	30.00	-9.16
	5530	106	CDD	AVG	11.83	11.77	14.81	23.98	-9.17	6.01	20.82	30.00	-9.18
	5690	138	CDD	AVG	19.33	19.34	22.35	23.98	-1.63	6.01	28.36	30.00	-1.64
	5775	155	CDD	AVG	14.75	14.98	17.88	28.78	-10.90	7.22	25.10	-	-

Table 7-91. ISSED CDD/SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

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Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during CDD/SDM 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 correlated 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.

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

Per ANSI C63.10-2013 Section 14.4.3, the uncorrelated 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.

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

Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 10.94 dBm for Antenna 5b and 10.91 dBm for Antenna 4b.

$$\text{Antenna 5b} + \text{Antenna 4b} = \text{CDD/SDM}$$

$$(10.94 \text{ dBm} + 10.91 \text{ dBm}) = (12.42 \text{ mW} + 12.33 \text{ mW}) = 24.75 \text{ mW} = 13.94 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average CDD/SDM conducted power was calculated to be 13.94 dBm with directional gain of 3.81 dBi.

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

$$13.94 \text{ dBm} + 3.81 \text{ dBi} = 17.75 \text{ dBm}$$

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7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax-SU §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.15 – 5.25GHz band, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1 MHz band.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2

KDB 789033 D02 v02r01 – Section F

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

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

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. All data rates were investigated and only the worse case is reported.
2. The data rates have been classified into three different groups; low data rate, middle data 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 psd plots are reported.

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7.5.1 Antenna 5b Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.52	11.0	-5.48
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	9.19	11.0	-1.81
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	9.22	11.0	-1.78
	5180	36	ax-SU (20MHz)	8/8.6 (MCS0)	4.07	11.0	-6.93
	5200	40	ax-SU (20MHz)	8/8.6 (MCS0)	6.80	11.0	-4.20
	5240	48	ax-SU (20MHz)	8/8.6 (MCS0)	7.67	11.0	-3.33
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.26	11.0	-9.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	6.64	11.0	-4.36
	5190	38	ax-SU (40MHz)	16/17.2 (MCS0)	-1.76	11.0	-12.76
	5230	46	ax-SU (40MHz)	16/17.2 (MCS0)	3.09	11.0	-7.91
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.74	11.0	-12.74
	5210	42	ax-SU (80MHz)	34/36.0 (MCS0)	-4.20	11.0	-15.20
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	9.58	11.0	-1.42
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	9.42	11.0	-1.58
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	9.04	11.0	-1.96
	5260	52	ax-SU (20MHz)	8/8.6 (MCS0)	7.23	11.0	-3.77
	5280	56	ax-SU (20MHz)	8/8.6 (MCS0)	6.88	11.0	-4.12
	5320	64	ax-SU (20MHz)	8/8.6 (MCS0)	6.32	11.0	-4.68
	5270	54	n (40MHz)	13.5/15 (MCS0)	6.50	11.0	-4.50
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.79	11.0	-8.21
	5270	54	ax-SU (40MHz)	16/17.2 (MCS0)	4.30	11.0	-6.70
	5310	62	ax-SU (40MHz)	16/17.2 (MCS0)	-0.55	11.0	-11.55
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.76	11.0	-11.76
	5290	58	ax-SU (80MHz)	34/36.0 (MCS0)	-1.81	11.0	-12.81
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	7.23	11.0	-3.77
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	8.92	11.0	-2.08
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	9.73	11.0	-1.27
	5500	100	ax-SU (20MHz)	8/8.6 (MCS0)	4.82	11.0	-6.18
	5580	116	ax-SU (20MHz)	8/8.6 (MCS0)	6.98	11.0	-4.02
	5720	144	ax-SU (20MHz)	8/8.6 (MCS0)	7.41	11.0	-3.59
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.10	11.0	-8.90
	5550	110	n (40MHz)	13.5/15 (MCS0)	6.82	11.0	-4.18
	*5590	118	n (40MHz)	13.5/15 (MCS0)	5.85	11.0	-5.15
	5710	142	n (40MHz)	13.5/15 (MCS0)	6.84	11.0	-4.16
	5510	102	ax-SU (40MHz)	16/17.2 (MCS0)	-0.70	11.0	-11.70
	5550	110	ax-SU (40MHz)	16/17.2 (MCS0)	3.47	11.0	-7.53
	*5590	118	ax-SU (40MHz)	16/17.2 (MCS0)	4.28	11.0	-6.72
	5710	142	ax-SU (40MHz)	16/17.2 (MCS0)	4.77	11.0	-6.23
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	0.51	11.0	-10.49
	*5610	122	ac (80MHz)	29.3/32.5 (MCS0)	0.06	11.0	-10.94
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	3.66	11.0	-7.34
	5530	106	ax-SU (80MHz)	34/36.0 (MCS0)	-2.13	11.0	-13.13
	*5610	122	ax-SU (80MHz)	34/36.0 (MCS0)	1.42	11.0	-9.58
	5690	138	ax-SU (80MHz)	34/36.0 (MCS0)	2.69	11.0	-8.31

Table 7-92. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (Low Data Rate)

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

FCC ID: BCGA2301 IC: 579C-A2301	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	26/28.9 (MCS3)	5.73	11.0	-5.27
	5200	40	n (20MHz)	26/28.9 (MCS3)	9.39	11.0	-1.61
	5240	48	n (20MHz)	26/28.9 (MCS3)	9.63	11.0	-1.37
	5180	36	ax-SU (20MHz)	33/34.4 (MCS3)	3.87	11.0	-7.13
	5200	40	ax-SU (20MHz)	33/34.4 (MCS3)	7.18	11.0	-3.82
	5240	48	ax-SU (20MHz)	33/34.4 (MCS3)	7.28	11.0	-3.72
	5190	38	n (40MHz)	54/60 (MCS3)	1.11	11.0	-9.89
	5230	46	n (40MHz)	54/60 (MCS3)	7.18	11.0	-3.82
	5190	38	ax-SU (40MHz)	65/68.8 (MCS3)	-1.79	11.0	-12.79
	5230	46	ax-SU (40MHz)	65/68.8 (MCS3)	3.17	11.0	-7.83
	5210	42	ac (80MHz)	117/130 (MCS3)	-3.25	11.0	-14.25
	5210	42	ax-SU (80MHz)	136/144.1 (MCS3)	-4.35	11.0	-15.35
Band 2A	5260	52	n (20MHz)	26/28.9 (MCS3)	9.92	11.0	-1.08
	5280	56	n (20MHz)	26/28.9 (MCS3)	9.97	11.0	-1.03
	5320	64	n (20MHz)	26/28.9 (MCS3)	7.93	11.0	-3.07
	5260	52	ax-SU (20MHz)	33/34.4 (MCS3)	7.49	11.0	-3.51
	5280	56	ax-SU (20MHz)	33/34.4 (MCS3)	7.43	11.0	-3.57
	5320	64	ax-SU (20MHz)	33/34.4 (MCS3)	5.14	11.0	-5.86
	5270	54	n (40MHz)	54/60 (MCS3)	6.90	11.0	-4.10
	5310	62	n (40MHz)	54/60 (MCS3)	2.46	11.0	-8.54
	5270	54	ax-SU (40MHz)	65/68.8 (MCS3)	3.98	11.0	-7.02
	5310	62	ax-SU (40MHz)	65/68.8 (MCS3)	-1.15	11.0	-12.15
	5290	58	ac (80MHz)	117/130 (MCS3)	-1.43	11.0	-12.43
	5290	58	ax-SU (80MHz)	136/144.1 (MCS3)	-2.91	11.0	-13.91
Band 2C	5500	100	n (20MHz)	26/28.9 (MCS3)	5.90	11.0	-5.10
	5580	116	n (20MHz)	26/28.9 (MCS3)	9.13	11.0	-1.87
	5720	144	n (20MHz)	26/28.9 (MCS3)	9.62	11.0	-1.38
	5500	100	ax-SU (20MHz)	33/34.4 (MCS3)	3.95	11.0	-7.05
	5580	116	ax-SU (20MHz)	33/34.4 (MCS3)	7.65	11.0	-3.35
	5720	144	ax-SU (20MHz)	33/34.4 (MCS3)	7.90	11.0	-3.10
	5510	102	n (40MHz)	54/60 (MCS3)	1.64	11.0	-9.36
	5550	110	n (40MHz)	54/60 (MCS3)	7.22	11.0	-3.78
	*5590	118	n (40MHz)	54/60 (MCS3)	6.27	11.0	-4.73
	5710	142	n (40MHz)	54/60 (MCS3)	7.29	11.0	-3.71
	5510	102	ax-SU (40MHz)	65/68.8 (MCS3)	-1.79	11.0	-12.79
	5550	110	ax-SU (40MHz)	65/68.8 (MCS3)	3.85	11.0	-7.15
	*5590	118	ax-SU (40MHz)	65/68.8 (MCS3)	4.63	11.0	-6.37
	5710	142	ax-SU (40MHz)	65/68.8 (MCS3)	4.42	11.0	-6.58
	5530	106	ac (80MHz)	117/130 (MCS3)	-1.89	11.0	-12.89
	*5610	122	ac (80MHz)	117/130 (MCS3)	2.53	11.0	-8.47
	5690	138	ac (80MHz)	117/130 (MCS3)	4.07	11.0	-6.93
	5530	106	ax-SU (80MHz)	136/144.1 (MCS3)	-2.44	11.0	-13.44
	*5610	122	ax-SU (80MHz)	136/144.1 (MCS3)	0.79	11.0	-10.21
	5690	138	ax-SU (80MHz)	136/144.1 (MCS3)	2.84	11.0	-8.16

Table 7-93. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (Mid Data Rate)

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

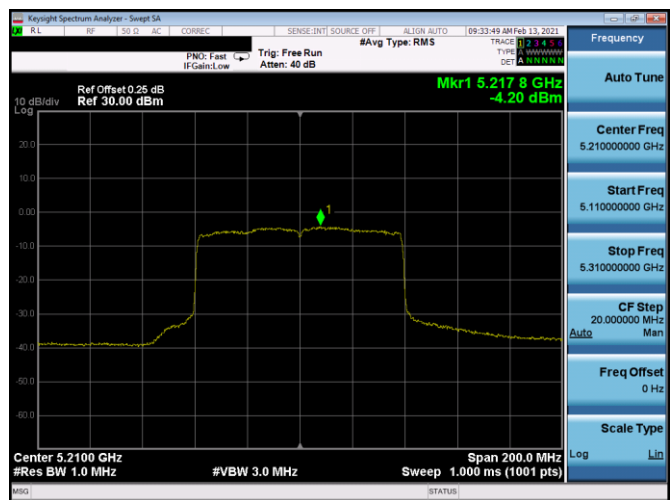
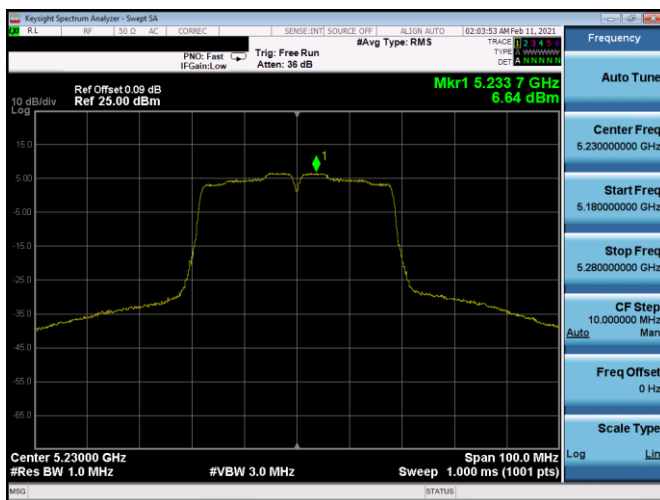
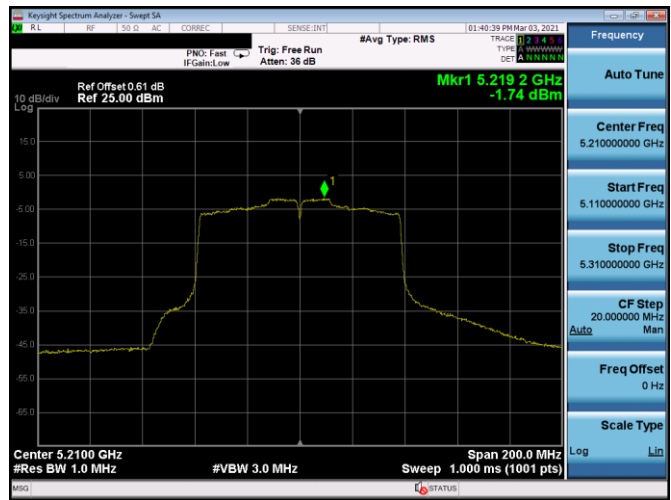
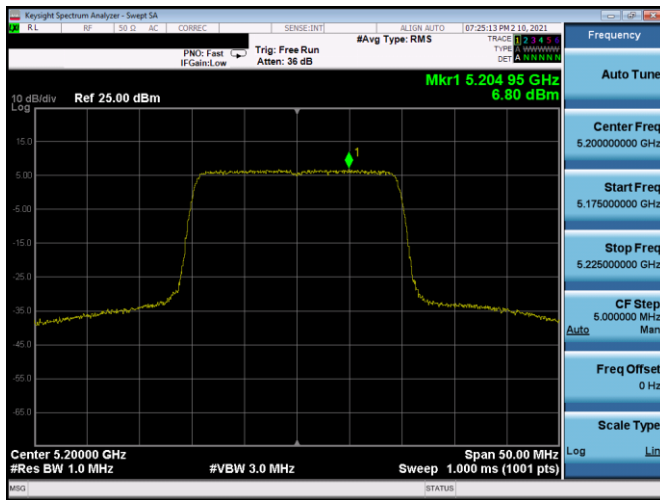
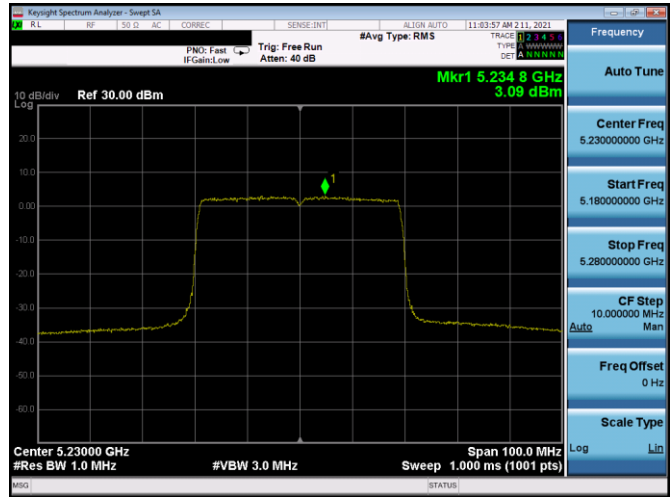
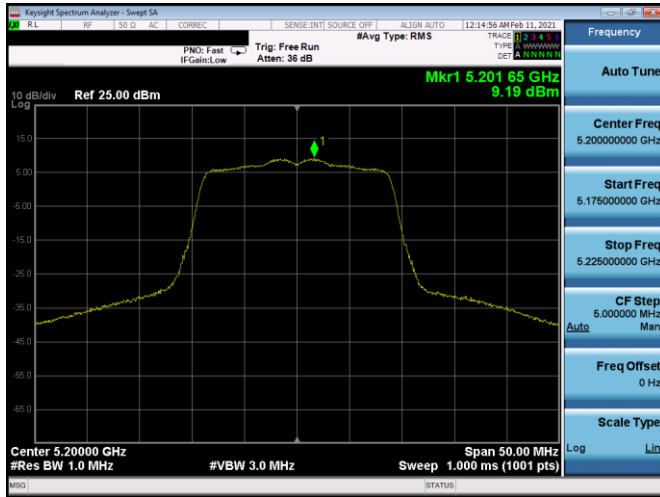
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	52/57.8 (MCS5)	4.28	11.0	-6.72
	5200	40	n (20MHz)	52/57.8 (MCS5)	7.69	11.0	-3.31
	5240	48	n (20MHz)	52/57.8 (MCS5)	8.44	11.0	-2.56
	5180	36	ax-SU (20MHz)	135/143.4 (MCS11)	3.01	11.0	-7.99
	5200	40	ax-SU (20MHz)	135/143.4 (MCS11)	6.86	11.0	-4.14
	5240	48	ax-SU (20MHz)	135/143.4 (MCS11)	7.51	11.0	-3.49
	5190	38	n (40MHz)	108/120 (MCS5)	-0.56	11.0	-11.56
	5230	46	n (40MHz)	108/120 (MCS5)	5.66	11.0	-5.34
	5190	38	ax-SU (40MHz)	271/286.8 (MCS11)	-3.08	11.0	-14.08
	5230	46	ax-SU (40MHz)	271/286.8 (MCS11)	3.33	11.0	-7.67
	5210	42	ac (80MHz)	234/260 (MCS5)	-5.54	11.0	-16.54
	5210	42	ax-SU (80MHz)	567/600.5 (MCS11)	-4.83	11.0	-15.83
Band 2A	5260	52	n (20MHz)	52/57.8 (MCS5)	8.70	11.0	-2.30
	5280	56	n (20MHz)	52/57.8 (MCS5)	8.83	11.0	-2.17
	5320	64	n (20MHz)	52/57.8 (MCS5)	6.24	11.0	-4.76
	5260	52	ax-SU (20MHz)	135/143.4 (MCS11)	7.70	11.0	-3.30
	5280	56	ax-SU (20MHz)	135/143.4 (MCS11)	7.50	11.0	-3.50
	5320	64	ax-SU (20MHz)	135/143.4 (MCS11)	4.48	11.0	-6.52
	5270	54	n (40MHz)	108/120 (MCS5)	5.78	11.0	-5.22
	5310	62	n (40MHz)	108/120 (MCS5)	0.60	11.0	-10.40
	5270	54	ax-SU (40MHz)	271/286.8 (MCS11)	3.75	11.0	-7.25
	5310	62	ax-SU (40MHz)	271/286.8 (MCS11)	-1.16	11.0	-12.16
	5290	58	ac (80MHz)	234/260 (MCS5)	-3.29	11.0	-14.29
	5290	58	ax-SU (80MHz)	567/600.5 (MCS11)	-3.09	11.0	-14.09
Band 2C	5500	100	n (20MHz)	52/57.8 (MCS5)	3.53	11.0	-7.47
	5580	116	n (20MHz)	52/57.8 (MCS5)	8.93	11.0	-2.07
	5720	144	n (20MHz)	52/57.8 (MCS5)	8.93	11.0	-2.07
	5500	100	ax-SU (20MHz)	135/143.4 (MCS11)	2.57	11.0	-8.43
	5580	116	ax-SU (20MHz)	135/143.4 (MCS11)	7.69	11.0	-3.31
	5720	144	ax-SU (20MHz)	135/143.4 (MCS11)	8.10	11.0	-2.90
	5510	102	n (40MHz)	108/120 (MCS5)	-0.68	11.0	-11.68
	5550	110	n (40MHz)	108/120 (MCS5)	3.51	11.0	-7.49
	*5590	118	n (40MHz)	108/120 (MCS5)	5.14	11.0	-5.86
	5710	142	n (40MHz)	108/120 (MCS5)	5.94	11.0	-5.06
	5510	102	ax-SU (40MHz)	271/286.8 (MCS11)	-3.84	11.0	-14.84
	5550	110	ax-SU (40MHz)	271/286.8 (MCS11)	2.51	11.0	-8.49
	*5590	118	ax-SU (40MHz)	271/286.8 (MCS11)	4.37	11.0	-6.63
	5710	142	ax-SU (40MHz)	271/286.8 (MCS11)	4.68	11.0	-6.32
	5530	106	ac (80MHz)	234/260 (MCS5)	-4.43	11.0	-15.43
	*5610	122	ac (80MHz)	234/260 (MCS5)	0.75	11.0	-10.25
	5690	138	ac (80MHz)	234/260 (MCS5)	2.91	11.0	-8.09
	5530	106	ax-SU (80MHz)	567/600.5 (MCS11)	-3.95	11.0	-14.95
	*5610	122	ax-SU (80MHz)	567/600.5 (MCS11)	0.38	11.0	-10.62
	5690	138	ax-SU (80MHz)	567/600.5 (MCS11)	2.69	11.0	-8.31

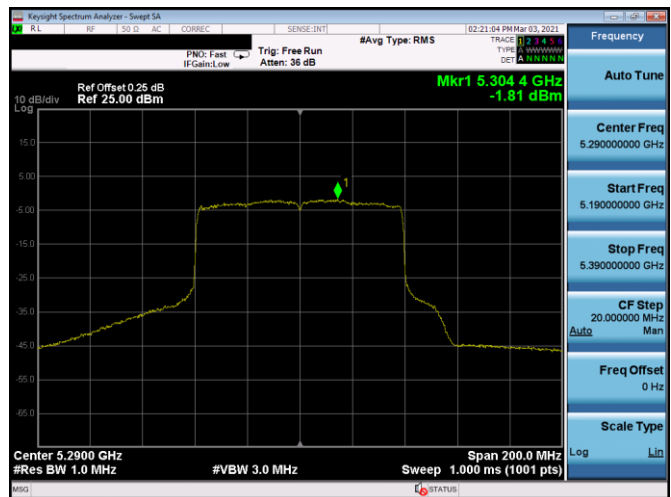
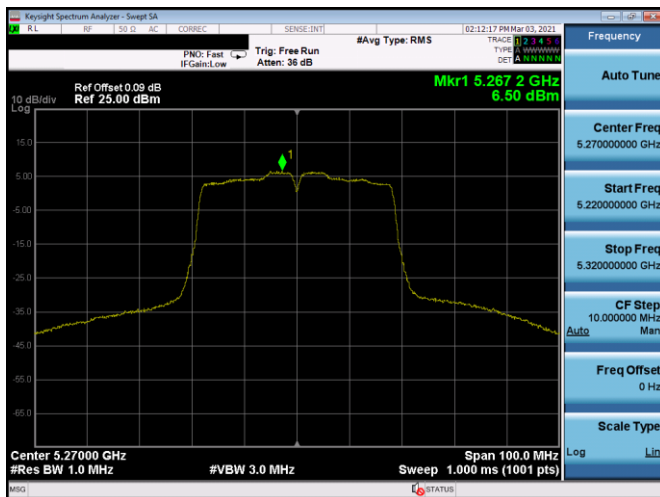
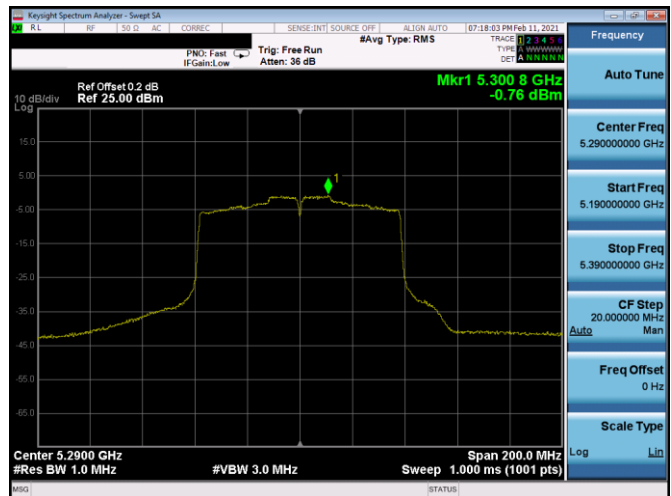
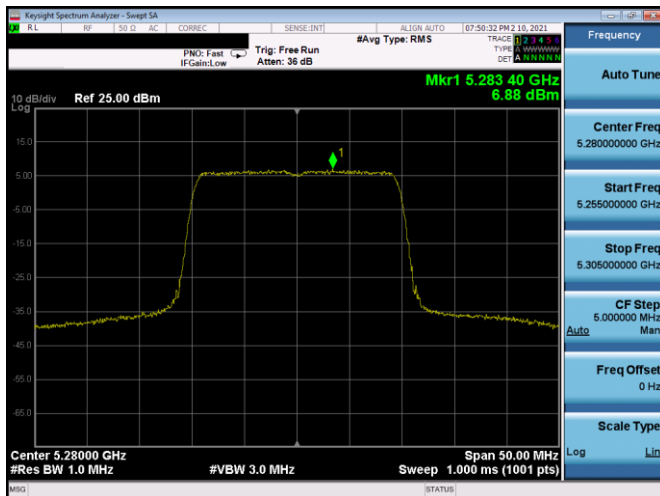
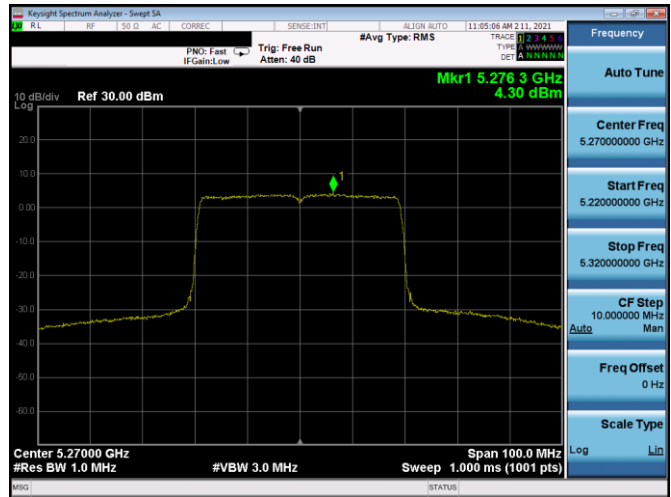
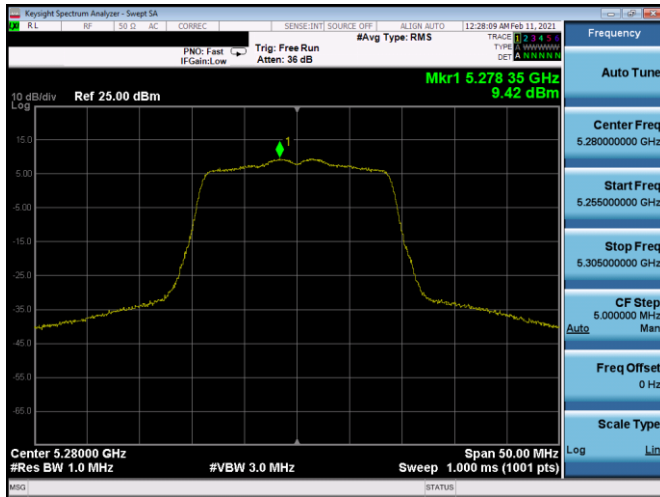
Table 7-94. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (High Data Rate)

*TDWR channel is not supported for ISSED (denoted by a * next to the frequency)

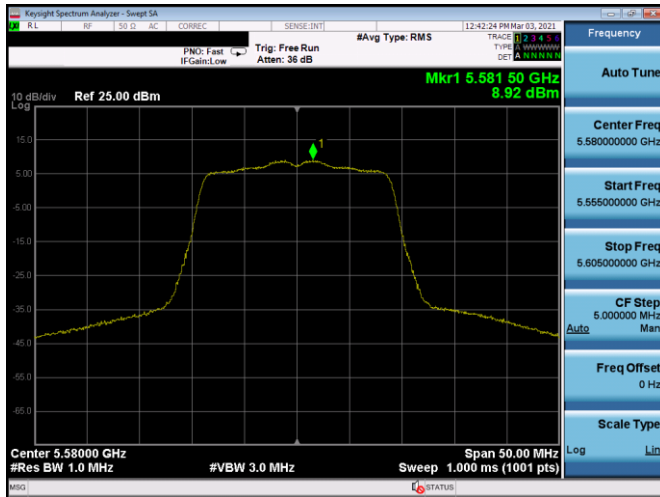
FCC ID: BCGA2301 IC: 579C-A2301	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 88 of 354



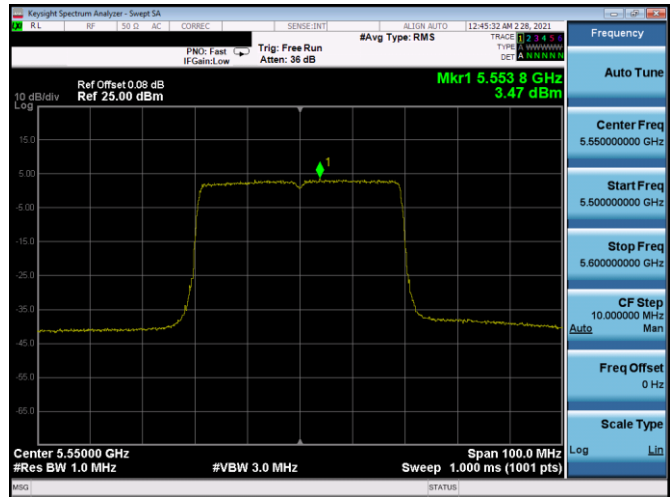
FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 89 of 354



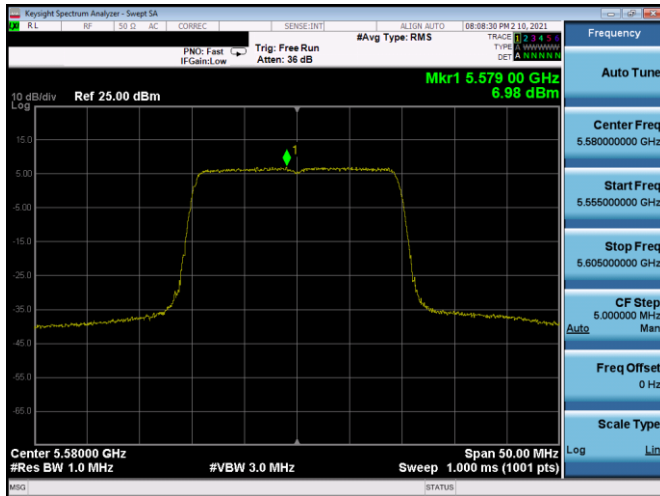
FCC ID: BCGA2301 IC: 579C-A2301	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 90 of 354



Plot 7-157. PSD Antenna 5b (20MHz BW 802.11n – Ch. 116, MCS0)



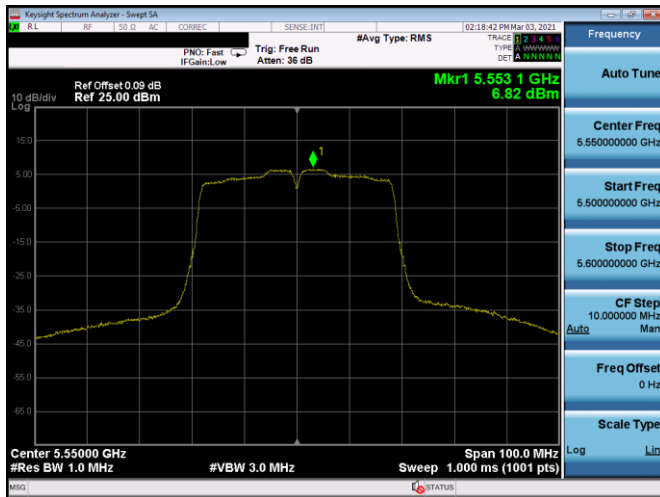
Plot 7-160. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 110, MCS0)



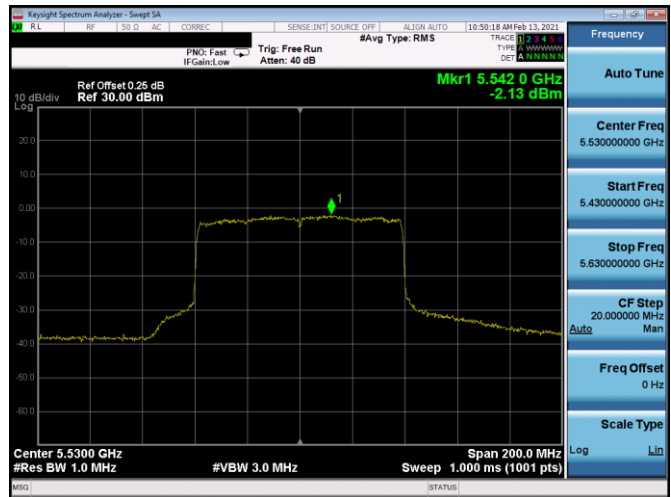
Plot 7-158. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 116, MCS0)



Plot 7-161. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 106, MCS0)



Plot 7-159. PSD Antenna 5b (40MHz BW 802.11n – Ch. 110, MCS0)



Plot 7-162. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 106, MCS0)

FCC ID: BCGA2301 IC: 579C-A2301		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-15.BCG	Test Dates: 12/12/2020 - 3/10/2021	EUT Type: Tablet Device	Page 91 of 354