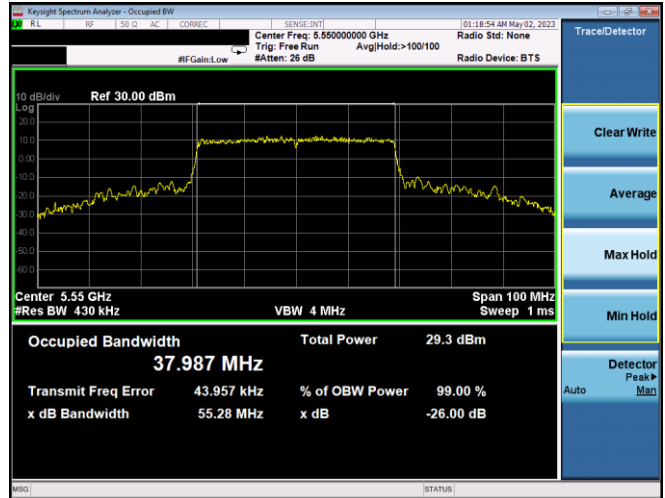
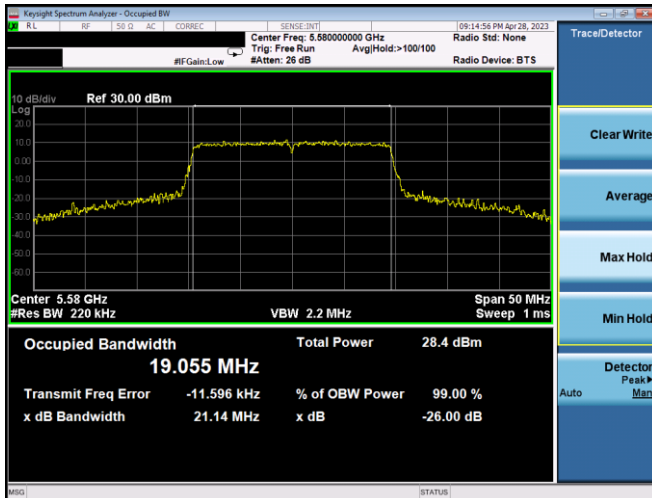


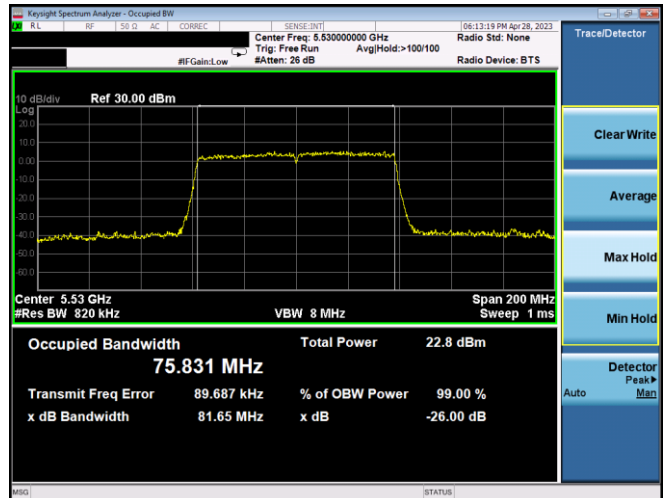
Plot 7-103. 26dB BW & 99% OBW Ant2 (20MHz BW 802.11n – Ch. 116, MCS7)



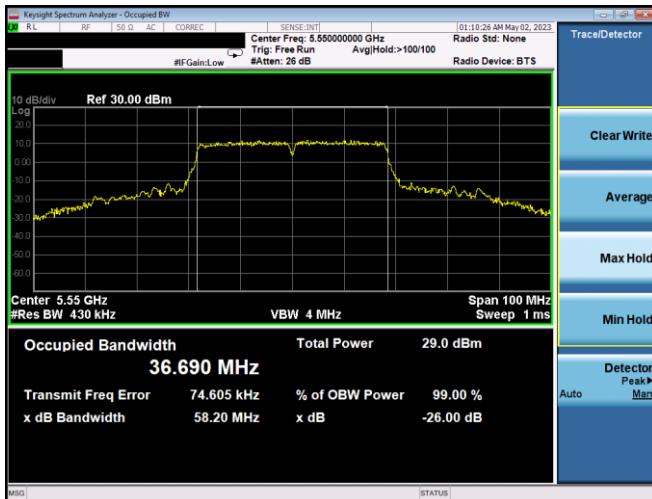
Plot 7-106. 26dB BW & 99% OBW Ant2 (40MHz BW 802.11ax(SU) – Ch. 110, MCS11)



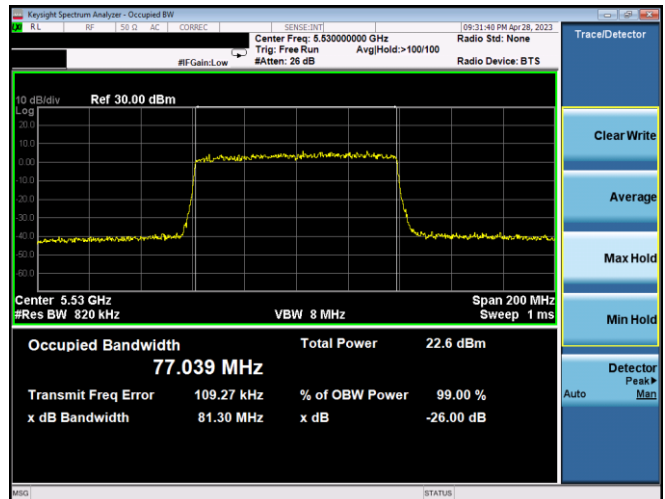
Plot 7-104. 26dB BW & 99% OBW Ant2 (20MHz BW 802.11ax(SU) – Ch. 116, MCS11)



Plot 7-107. 26dB BW & 99% OBW Ant2 (80MHz BW 802.11ac – Ch. 106, MCS8)



Plot 7-105. 26dB BW & 99% OBW Ant2 (40MHz BW 802.11n – Ch. 110, MCS7)



Plot 7-108. 26dB BW & 99% OBW Ant2 (80MHz BW 802.11ax(SU) – Ch. 106, MCS11)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 43 of 322

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 ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

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

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Ant1 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.67	16.96	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.69	16.63	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.67	17.01	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.98	19.08	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	19.01	19.02	0.50	Pass
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	19.01	19.02	0.50	Pass
	5755	151	n (40MHz)	40.5/45 (MCS2)	36.22	36.04	0.50	Pass
	5795	159	n (40MHz)	40.5/45 (MCS2)	36.22	35.35	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.94	38.19	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.93	38.15	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.31	75.52	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.05	77.57	0.50	Pass


Table 7-8. Conducted Bandwidth Measurements Ant1 (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	17.67	17.63	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.73	17.67	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.70	17.68	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	19.08	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	19.04	0.50	Pass
	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	19.03	19.06	0.50	Pass
	5755	151	n (40MHz)	81/90 (MCS4)	36.21	36.40	0.50	Pass
	5795	159	n (40MHz)	81/90 (MCS4)	36.27	36.22	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	38.01	38.19	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	37.98	38.16	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.35	75.58	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	77.12	76.86	0.50	Pass

Table 7-9. Conducted Bandwidth Measurements Ant1 (Mid Data Rate)

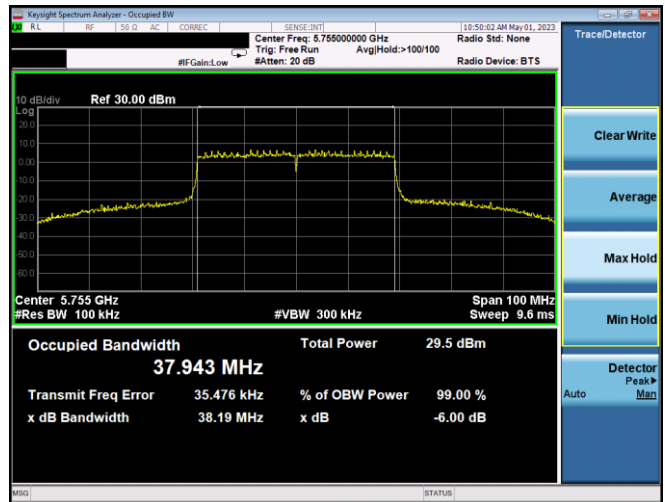
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	65/72.2 (MCS7)	17.77	17.78	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.81	17.73	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.77	17.75	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	19.04	19.11	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	19.05	19.07	0.50	Pass
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	19.13	0.50	Pass
	5755	151	n (40MHz)	135/150 (MCS7)	36.30	36.55	0.50	Pass
	5795	159	n (40MHz)	135/150 (MCS7)	36.37	36.52	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286.8 (MCS11)	37.99	38.19	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286.8 (MCS11)	37.98	38.22	0.50	Pass
	5775	155	ac (80MHz)	351/390 (MCS8)	75.62	76.18	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	76.96	77.28	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Ant1 (High Data Rate)

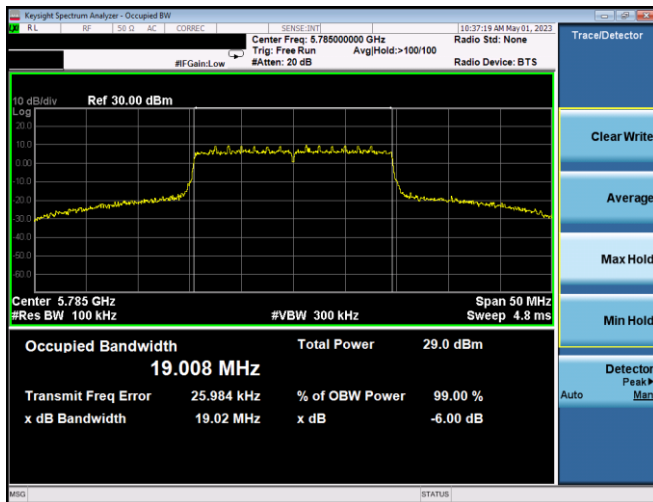
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 45 of 322



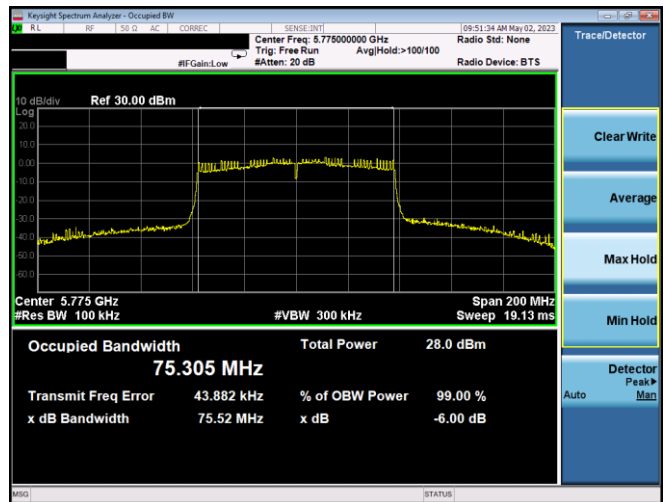
Plot 7-109. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11n – Ch. 157, MCS2)



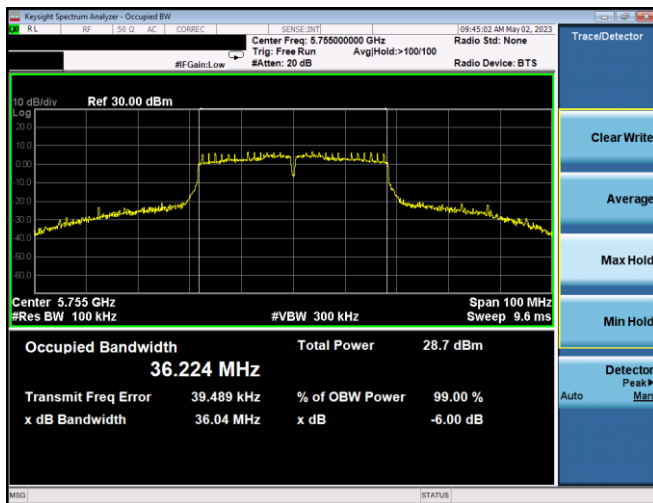
Plot 7-112. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



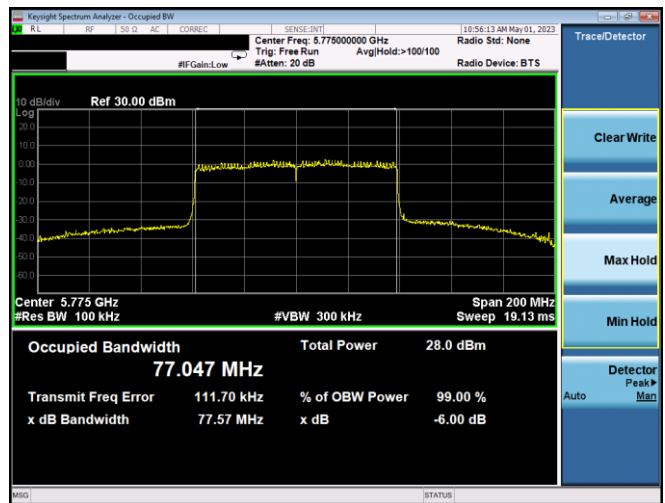
Plot 7-110. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11ax(SU) – Ch. 157, MCS2)



Plot 7-113. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ac – Ch. 155, MCS2)



Plot 7-111. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11n – Ch. 151, MCS2)

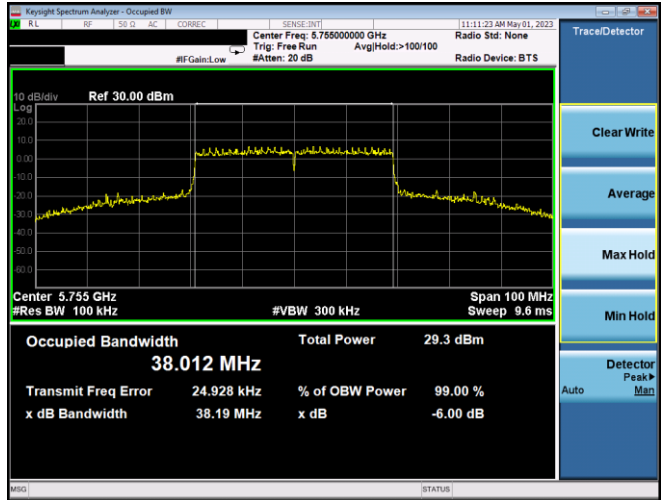


Plot 7-114. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

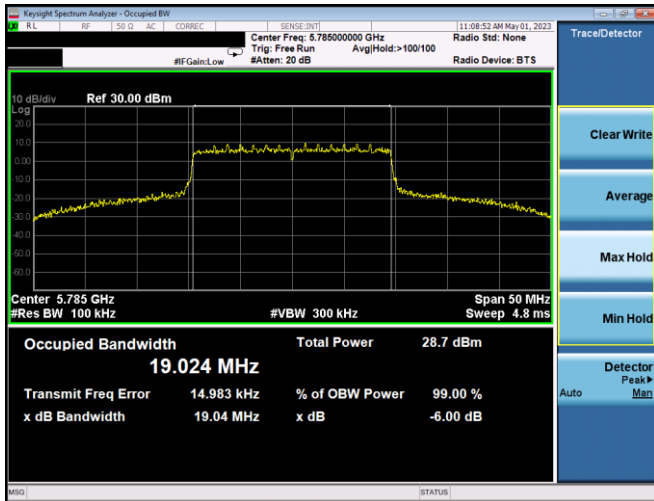
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-115. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11n – Ch. 157, MCS4)



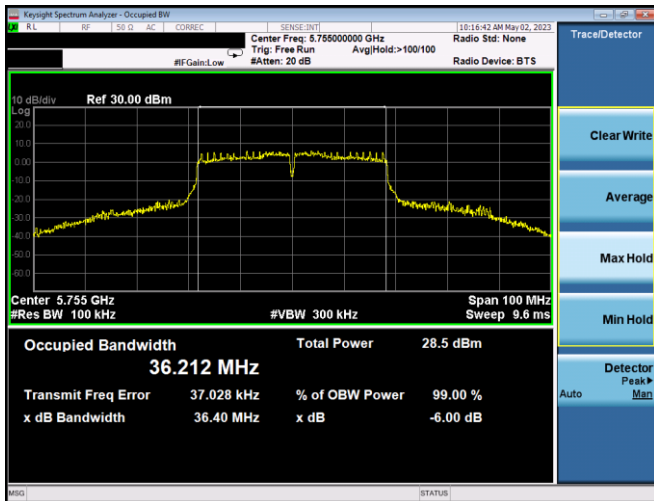
Plot 7-118. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11ax(SU) – Ch. 151, MCS4)



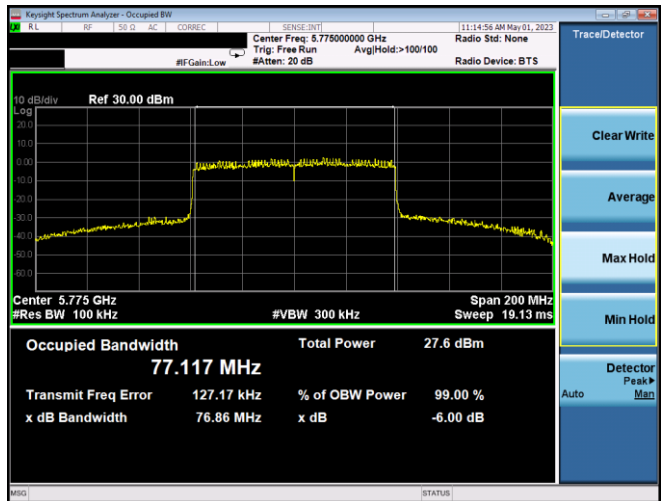
Plot 7-116. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11ax(SU) – Ch. 157, MCS4)



Plot 7-119. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ac – Ch. 155, MCS4)

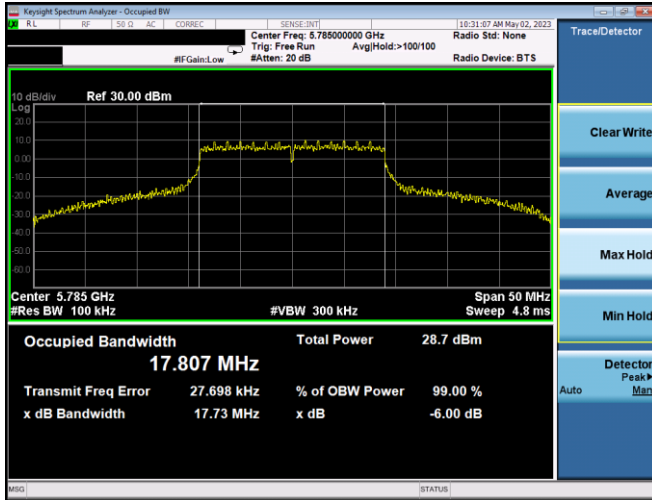


Plot 7-117. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11n – Ch. 151, MCS4)



Plot 7-120. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ax(SU) – Ch. 155, MCS4)

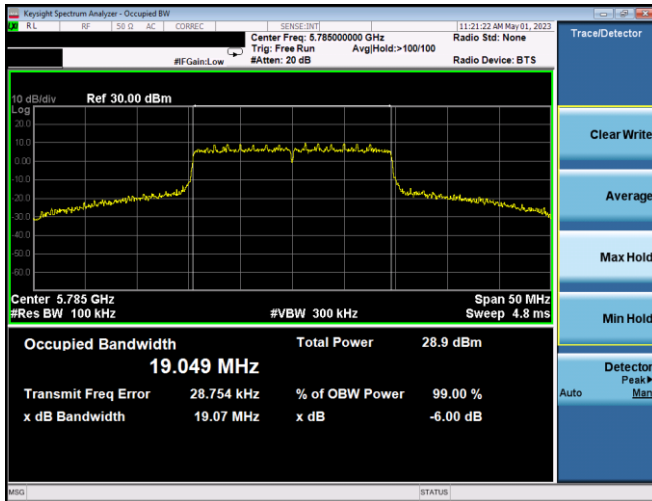
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 47 of 322



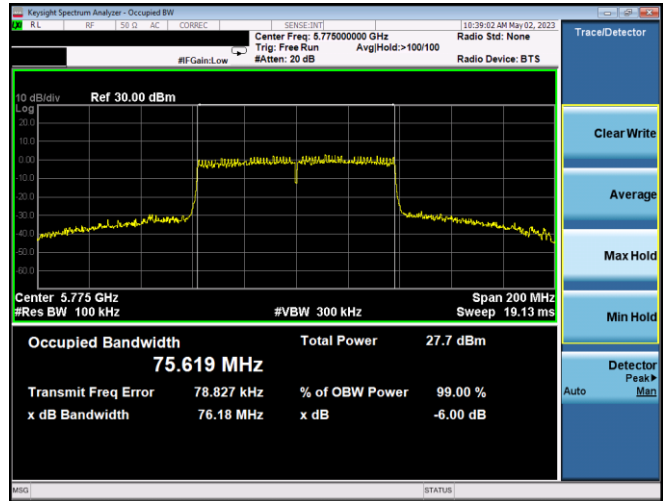
Plot 7-121. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11n – Ch. 157, MCS7)



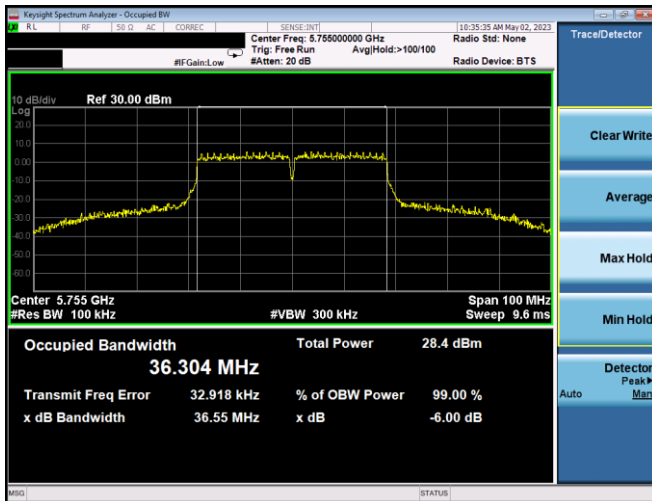
Plot 7-124. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



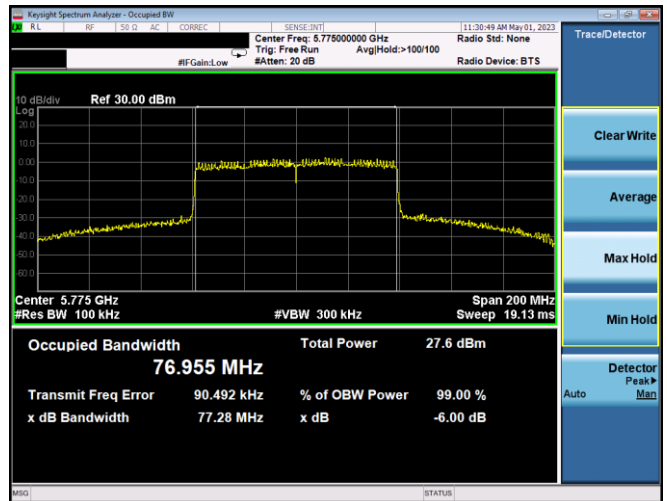
Plot 7-122. 6dB BW & 99% OBW Ant1 (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-125. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ac – Ch. 155, MCS8)



Plot 7-123. 6dB BW & 99% OBW Ant1 (40MHz BW 802.11n – Ch. 151, MCS7)



Plot 7-126. 6dB BW & 99% OBW Ant1 (80MHz BW 802.11ax(SU) – Ch. 155, MCS11)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Ant2 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.23	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.65	16.99	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.67	16.10	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	19.00	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.98	19.00	0.50	Pass
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	19.00	19.04	0.50	Pass
	5755	151	n (40MHz)	40.5/45 (MCS2)	36.09	35.37	0.50	Pass
	5795	159	n (40MHz)	40.5/45 (MCS2)	36.17	35.50	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.87	38.14	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.90	38.14	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.31	75.56	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.05	77.90	0.50	Pass


Table 7-11. Conducted Bandwidth Measurements Ant2 (Low Data Rate)

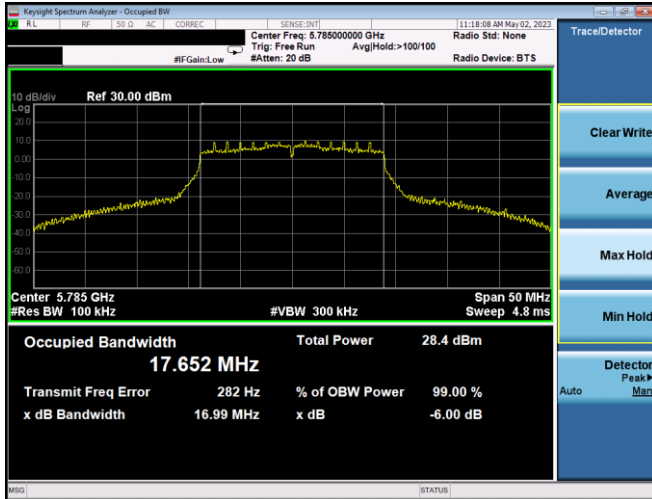
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	17.64	17.66	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.65	17.62	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.68	17.63	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	19.00	19.12	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	18.99	19.05	0.50	Pass
	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	19.02	19.07	0.50	Pass
	5755	151	n (40MHz)	81/90 (MCS4)	36.16	36.45	0.50	Pass
	5795	159	n (40MHz)	81/90 (MCS4)	36.22	36.13	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	37.93	38.19	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	38.00	38.25	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.35	75.68	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	77.07	77.89	0.50	Pass

Table 7-12. Conducted Bandwidth Measurements Ant2 (Mid Data Rate)

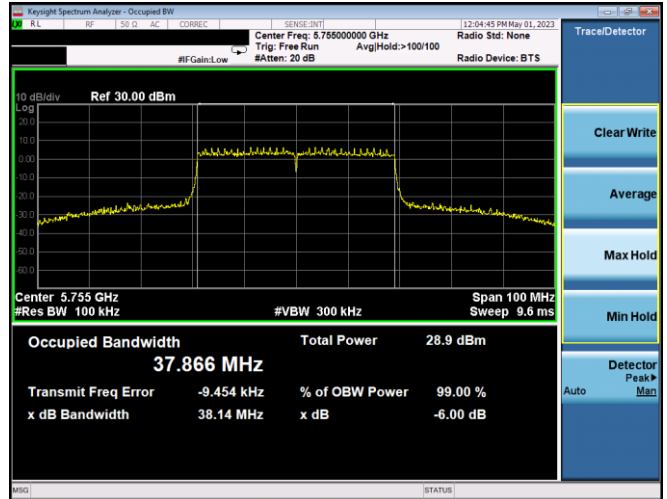
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	65/72.2 (MCS7)	17.73	17.77	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.73	17.75	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.76	17.73	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	19.00	19.08	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	19.04	19.12	0.50	Pass
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	19.06	19.08	0.50	Pass
	5755	151	n (40MHz)	135/150 (MCS7)	36.27	36.54	0.50	Pass
	5795	159	n (40MHz)	135/150 (MCS7)	36.36	36.53	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286.8 (MCS11)	37.91	38.17	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286.8 (MCS11)	37.95	38.16	0.50	Pass
	5775	155	ac (80MHz)	351/390 (MCS8)	75.65	76.48	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	77.06	77.82	0.50	Pass

Table 7-13. Conducted Bandwidth Measurements Ant2 (High Data Rate)

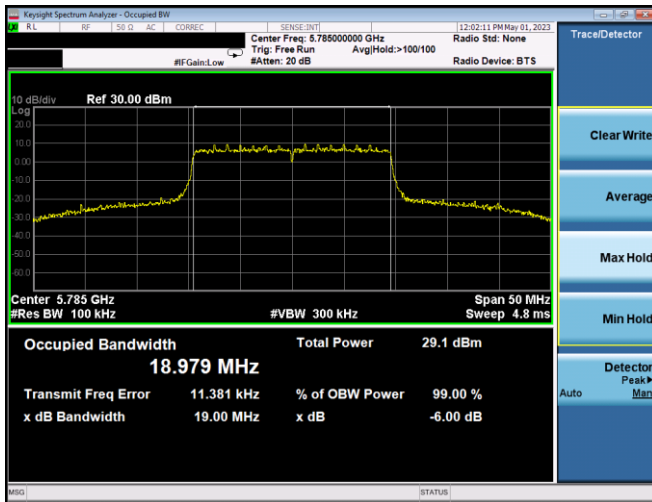
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 49 of 322



Plot 7-127. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11n – Ch. 157, MCS2)



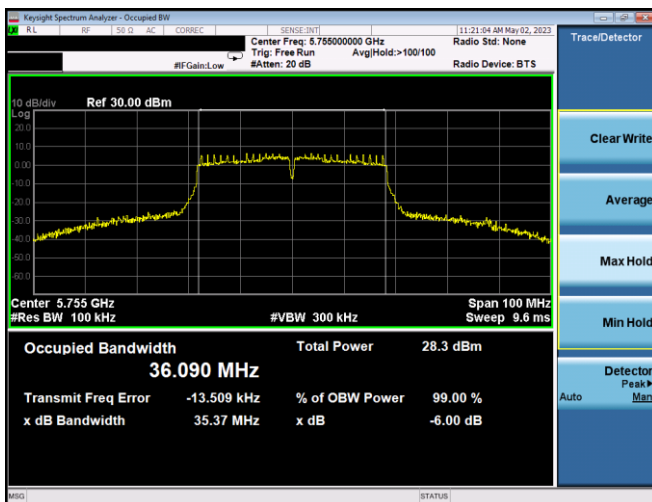
Plot 7-130. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



Plot 7-128. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11ax(SU) – Ch. 157, MCS2)



Plot 7-131. 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ac – Ch. 155, MCS2)

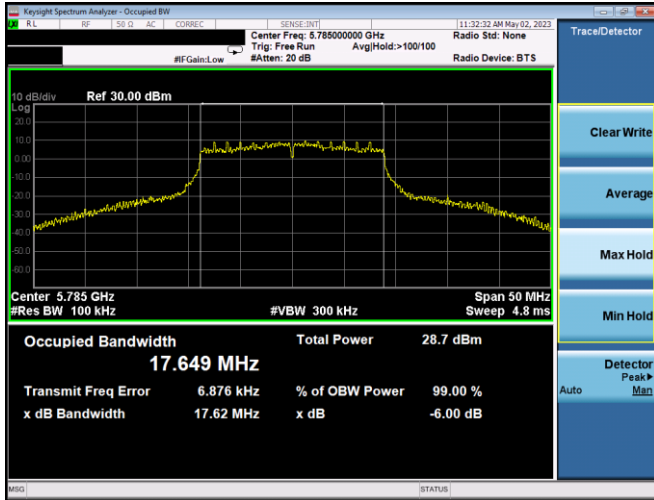


Plot 7-129. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11n – Ch. 151, MCS2)



Plot 7-132. 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

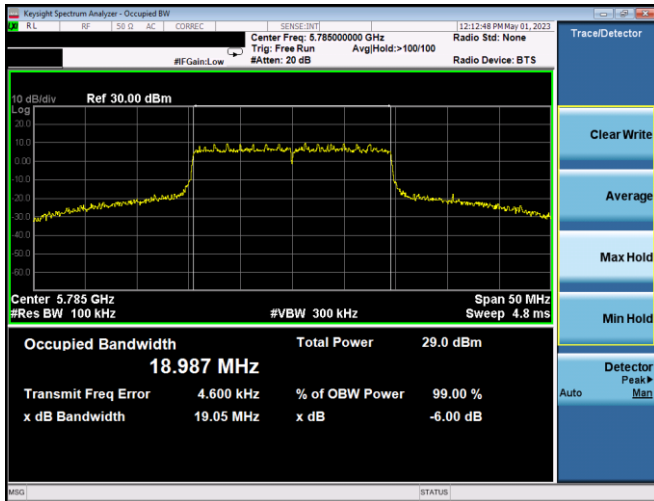
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 50 of 322



Plot 7-133. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11n – Ch. 157, MCS4)



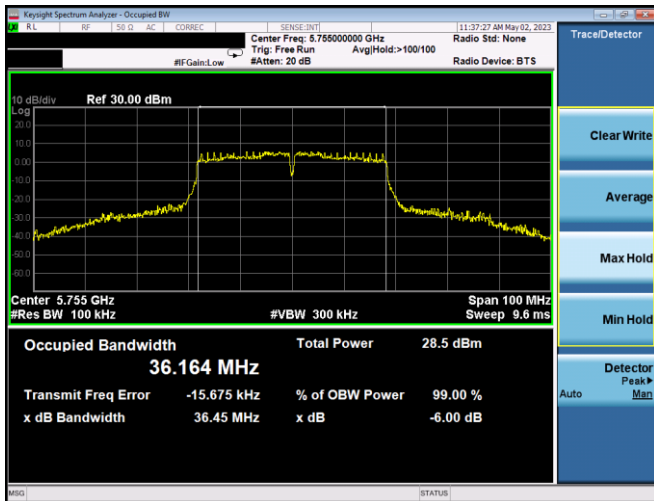
Plot 7-136. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11ax (SU) – Ch. 151, MCS4)



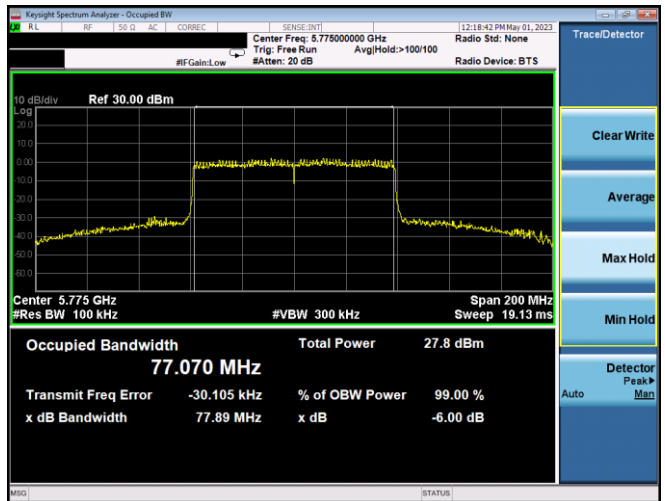
Plot 7-134. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11ax(SU) – Ch. 157, MCS4)



Plot 7-137. 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ac – Ch. 155, MCS4)

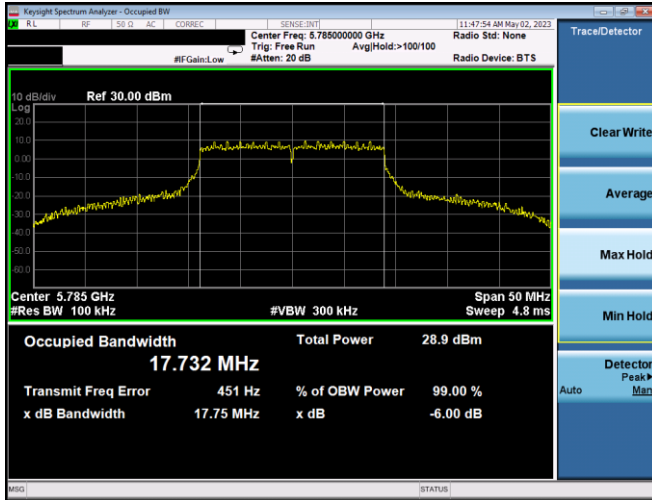


Plot 7-135. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11n – Ch. 151, MCS4)



Plot 7-138. 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ax(SU) – Ch. 155, MCS4)

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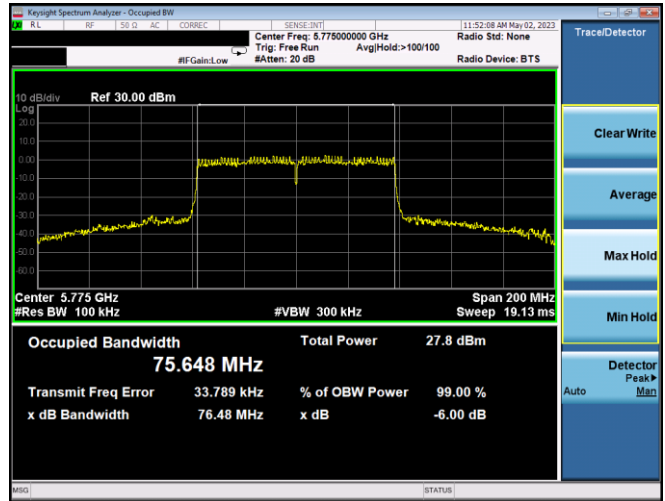
Plot 7-139. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11n – Ch. 157, MCS7)



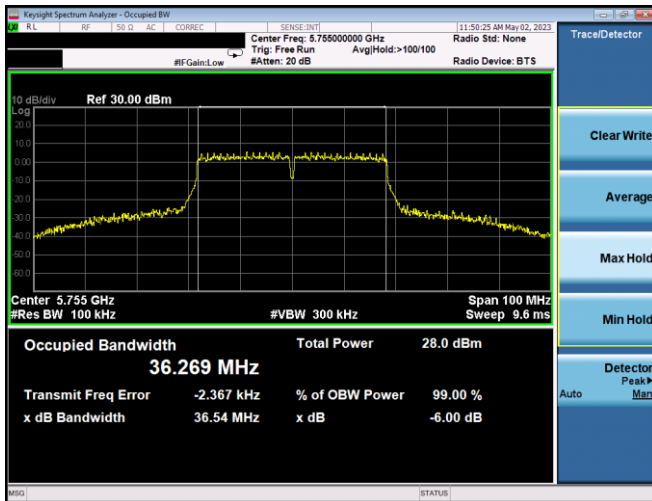
Plot 7-142. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



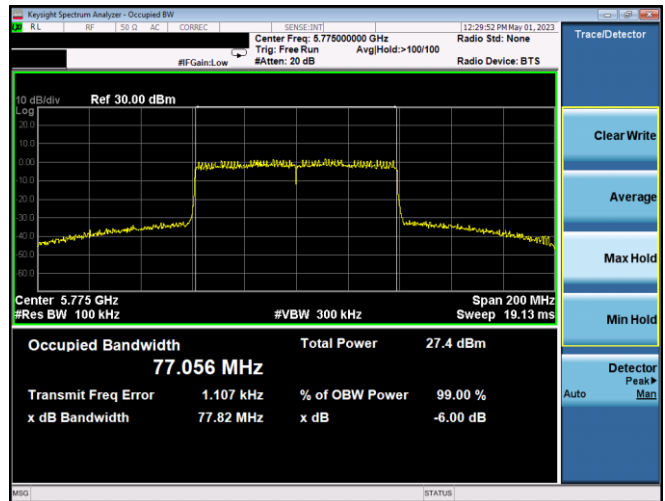
Plot 7-140. 6dB BW & 99% OBW Ant2 (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-143. 6dB BW & 99% OBW Ant2 (80MHz BW 802.11ac – Ch. 155, MCS8)



Plot 7-141. 6dB BW & 99% OBW Ant2 (40MHz BW 802.11n – Ch. 151, MCS7)



Plot 7-144. 6dB BW & 99% OBW Ant2 (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 ISED 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 $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(20.90) = 24.20\text{dBm}$. 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 $11 \text{ dBm} + 10\log_{10}(26\text{dB BW}) = 11 \text{ dBm} + 10\log_{10}(20.93) = 24.21\text{dBm}$. 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 Ant1 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		
	5180	36	AVG	18.04	18.23	17.56	23.98	-5.75
	5200	40	AVG	19.47	19.50	19.48	23.98	-4.48
	5240	48	AVG	19.44	19.35	19.44	23.98	-4.54
	5260	52	AVG	19.34	19.42	19.23	23.98	-4.56
	5280	56	AVG	19.27	19.49	19.29	23.98	-4.49
	5320	64	AVG	18.86	18.85	18.17	23.98	-5.12
	5500	100	AVG	19.43	19.50	18.99	23.98	-4.48
	5520	104	AVG	19.26	19.43	19.39	23.98	-4.55
	5580	116	AVG	19.50	19.40	19.27	23.98	-4.48
	5680	136	AVG	19.30	19.38	19.47	23.98	-4.60
	5700	140	AVG	15.79	15.87	19.27	23.98	-8.11
	5720	144	AVG	19.31	19.49	19.32	23.98	-4.49
	5745	149	AVG	19.93	19.92	19.83	30.00	-10.07
	5785	157	AVG	19.79	19.76	19.89	30.00	-10.21
	5825	165	AVG	19.74	19.78	19.80	30.00	-10.22

Table 7-14. FCC Ant1 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		
	5180	36	AVG	17.56	17.62	16.42	23.98	-6.36
	5200	40	AVG	19.48	19.27	19.36	23.98	-4.50
	5240	48	AVG	19.48	19.50	19.44	23.98	-4.48
	5260	52	AVG	19.38	19.36	19.36	23.98	-4.60
	5280	56	AVG	19.35	19.45	19.49	23.98	-4.53
	5320	64	AVG	18.46	18.41	17.97	23.98	-5.52
	5500	100	AVG	17.21	17.09	16.94	23.98	-6.77
	5520	104	AVG	19.50	19.40	19.45	23.98	-4.48
	5580	116	AVG	19.49	19.49	19.47	23.98	-4.49
	5680	136	AVG	19.34	19.44	19.49	23.98	-4.54
	5700	140	AVG	14.40	14.41	17.59	23.98	-9.57
	5720	144	AVG	19.28	19.36	19.38	23.98	-4.62
	5745	149	AVG	19.97	19.73	19.88	30.00	-10.03
	5785	157	AVG	19.79	19.88	19.85	30.00	-10.12
	5825	165	AVG	19.77	19.88	19.75	30.00	-10.12

Table 7-15. FCC Ant1 20MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5180	36	AVG	16.21	16.18	15.79	23.98	-7.77
	5200	40	AVG	19.29	19.38	19.43	23.98	-4.60
	5240	48	AVG	19.31	19.22	19.21	23.98	-4.67
	5260	52	AVG	19.31	19.23	19.39	23.98	-4.67
	5280	56	AVG	19.50	19.39	19.34	23.98	-4.48
	5320	64	AVG	17.94	17.71	17.33	23.98	-6.04
	5500	100	AVG	15.24	15.19	14.80	23.98	-8.74
	5520	104	AVG	19.44	19.44	19.07	23.98	-4.54
	5540	108	AVG	19.45	19.38	19.43	23.98	-4.53
	5580	116	AVG	19.42	19.43	19.27	23.98	-4.55
	5680	136	AVG	19.38	19.43	19.32	23.98	-4.55
	5700	140	AVG	14.13	14.15	15.71	23.98	-9.83
	5720	144	AVG	19.42	19.34	19.38	23.98	-4.56
	5745	149	AVG	19.94	19.95	19.83	30.00	-10.05
	5785	157	AVG	19.87	19.81	19.91	30.00	-10.13
	5825	165	AVG	19.97	19.97	19.77	30.00	-10.03

Table 7-16. FCC Ant1 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		
	5190	38	AVG	15.11	14.23	23.98	-8.87
	5230	46	AVG	19.76	19.90	23.98	-4.22
	5270	54	AVG	20.00	19.92	23.98	-3.98
	5310	62	AVG	17.61	16.95	23.98	-6.37
	5510	102	AVG	16.36	16.05	23.98	-7.62
	5550	110	AVG	19.82	19.91	23.98	-4.16
	5590	118	AVG	19.94	19.78	23.98	-4.04
	5630	126	AVG	19.83	19.74	23.98	-4.15
	5670	134	AVG	18.30	17.99	23.98	-5.68
	5710	142	AVG	20.00	19.79	23.98	-3.98
	5755	151	AVG	19.45	19.82	30.00	-10.55
	5795	159	AVG	19.87	19.98	30.00	-10.13

Table 7-17. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5190	38	AVG	14.69	13.25	23.98	-9.29
5230	46	AVG	19.94	19.25	23.98	-4.04	
5270	54	AVG	19.92	19.75	23.98	-4.06	
5310	62	AVG	16.26	15.41	23.98	-7.72	
5510	102	AVG	15.49	14.95	23.98	-8.49	
5550	110	AVG	19.74	19.93	23.98	-4.24	
5590	118	AVG	19.94	20.00	23.98	-4.04	
5630	126	AVG	19.71	19.99	23.98	-4.27	
5670	134	AVG	17.58	17.38	23.98	-6.40	
5710	142	AVG	19.86	19.92	23.98	-4.12	
5755	151	AVG	18.94	19.83	30.00	-11.06	
5795	159	AVG	19.97	19.80	30.00	-10.03	

Table 7-18. FCC Ant1 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		
	5190	38	AVG	13.78	12.40	23.98	-10.20
5230	46	AVG	19.98	19.25	23.98	-4.00	
5270	54	AVG	19.82	20.00	23.98	-4.16	
5310	62	AVG	15.40	14.30	23.98	-8.58	
5510	102	AVG	14.50	13.39	23.98	-9.48	
5550	110	AVG	19.72	19.46	23.98	-4.26	
5590	118	AVG	19.91	19.80	23.98	-4.07	
5630	126	AVG	19.70	19.81	23.98	-4.28	
5670	134	AVG	15.84	15.88	23.98	-8.14	
5710	142	AVG	19.86	19.78	23.98	-4.12	
5755	151	AVG	18.62	20.00	30.00	-11.38	
5795	159	AVG	19.94	19.82	30.00	-10.06	

Table 7-19. FCC Ant1 40MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5210	42	AVG	13.75	12.20	23.98	-10.23
5290	58	AVG	13.92	13.30	23.98	-10.06	
5530	106	AVG	16.40	16.19	23.98	-7.58	
5610	122	AVG	19.90	19.80	23.98	-4.08	
5690	138	AVG	20.00	19.96	23.98	-3.98	
5775	155	AVG	18.28	18.08	30.00	-11.72	


Table 7-20. FCC Ant1 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		
	5210	42	AVG	13.11	11.46	23.98	-10.87
5290	58	AVG	13.40	11.91	23.98	-10.58	
5530	106	AVG	15.78	13.95	23.98	-8.20	
5610	122	AVG	19.52	19.47	23.98	-4.46	
5690	138	AVG	19.83	19.95	23.98	-4.15	
5775	155	AVG	18.41	18.11	30.00	-11.59	

Table 7-21. FCC Ant1 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		
	5210	42	AVG	12.47	11.34	23.98	-11.51
5290	58	AVG	12.99	10.86	23.98	-10.99	
5530	106	AVG	14.23	13.50	23.98	-9.75	
5610	122	AVG	19.19	19.13	23.98	-4.79	
5690	138	AVG	19.90	19.72	23.98	-4.08	
5775	155	AVG	18.16	17.81	30.00	-11.84	

Table 7-22. FCC Ant1 80MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.4.2 ISED Ant1 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						
				5180	36	AVG						
5200	40	AVG	14.77	14.76	14.82	-	-	3.30	18.07	23.01	-4.94	
5240	48	AVG	14.83	14.80	14.83	-	-	3.30	18.13	23.01	-4.88	
5260	52	AVG	19.34	19.42	19.23	23.98	-4.56	3.40	22.82	30.00	-7.18	
5280	56	AVG	19.27	19.49	19.29	23.98	-4.49	3.40	22.89	30.00	-7.11	
5320	64	AVG	18.86	18.85	18.17	23.98	-5.12	3.40	22.26	30.00	-7.74	
5500	100	AVG	19.43	19.50	18.99	23.98	-4.48	2.60	22.10	30.00	-7.90	
5580	116	AVG	19.50	19.40	19.27	23.98	-4.48	2.60	22.10	30.00	-7.90	
5680	136	AVG	19.30	19.38	19.47	23.98	-4.60	2.60	21.98	30.00	-8.02	
5700	140	AVG	15.79	15.87	19.27	23.98	-8.11	2.60	18.47	30.00	-11.53	
5720	144	AVG	19.31	19.49	19.32	23.98	-4.49	2.60	22.09	30.00	-7.91	
5745	149	AVG	19.93	19.92	19.83	30.00	-10.07	1.20	21.13	-	-	
5785	157	AVG	19.79	19.76	19.89	30.00	-10.21	1.20	20.99	-	-	
5825	165	AVG	19.74	19.78	19.80	30.00	-10.22	1.20	20.98	-	-	


Table 7-23. ISED Ant1 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						
				5180	36	AVG						
5200	40	AVG	14.90	14.89	14.98	-	-	3.30	18.20	23.01	-4.81	
5240	48	AVG	14.91	14.93	14.94	-	-	3.30	18.23	23.01	-4.78	
5260	52	AVG	19.38	19.36	19.36	23.98	-4.60	3.40	22.78	30.00	-7.22	
5280	56	AVG	19.35	19.45	19.49	23.98	-4.53	3.40	22.85	30.00	-7.15	
5320	64	AVG	18.46	18.41	17.97	23.98	-5.52	3.40	21.86	30.00	-8.14	
5500	100	AVG	17.21	17.09	16.94	23.98	-6.77	2.60	19.81	30.00	-10.19	
5580	116	AVG	19.49	19.49	19.47	23.98	-4.49	2.60	22.09	30.00	-7.91	
5680	136	AVG	19.34	19.44	19.49	23.98	-4.54	2.60	22.04	30.00	-7.96	
5700	140	AVG	14.40	14.41	17.59	23.98	-9.57	2.60	17.01	30.00	-12.99	
5720	144	AVG	19.28	19.36	19.38	23.98	-4.62	2.60	21.96	30.00	-8.04	
5745	149	AVG	19.97	19.73	19.88	30.00	-10.03	1.20	21.17	-	-	
5785	157	AVG	19.79	19.88	19.85	30.00	-10.12	1.20	21.08	-	-	
5825	165	AVG	19.77	19.88	19.75	30.00	-10.12	1.20	21.08	-	-	

Table 7-24. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid 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						
				5180	36	AVG						
5200	40	AVG	14.91	14.97	15.00	-	-	3.30	18.27	23.01	-4.74	
5240	48	AVG	14.70	14.74	14.80	-	-	3.30	18.04	23.01	-4.97	
5260	52	AVG	19.31	19.23	19.39	23.98	-4.67	3.40	22.71	30.00	-7.29	
5280	56	AVG	19.50	19.39	19.34	23.98	-4.48	3.40	22.90	30.00	-7.10	
5320	64	AVG	17.94	17.71	17.33	23.98	-6.04	3.40	21.34	30.00	-8.66	
5500	100	AVG	15.24	15.19	14.80	23.98	-8.74	2.60	17.84	30.00	-12.16	
5520	104	AVG	19.44	19.44	19.07	23.98	-4.54	2.60	22.04	30.00	-7.96	
5580	116	AVG	19.42	19.43	19.27	23.98	-4.55	2.60	22.03	30.00	-7.97	
5680	136	AVG	19.38	19.43	19.32	23.98	-4.55	2.60	22.03	30.00	-7.97	
5700	140	AVG	14.13	14.15	15.71	23.98	-9.83	2.60	16.75	30.00	-13.25	
5720	144	AVG	19.42	19.34	19.38	23.98	-4.56	2.60	22.02	30.00	-7.98	
5745	149	AVG	19.94	19.95	19.83	30.00	-10.05	1.20	21.15	-	-	
5785	157	AVG	19.87	19.81	19.91	30.00	-10.13	1.20	21.07	-	-	
5825	165	AVG	19.97	19.97	19.77	30.00	-10.03	1.20	21.17	-	-	

Table 7-25. ISED Ant1 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device		Page 58 of 322

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						
				5190	38						
5230	46	AVG	17.49	17.32	-	-	3.30	20.79	23.01	-2.22	
5270	54	AVG	20.00	19.92	23.98	-3.98	3.40	23.40	30.00	-6.60	
5310	62	AVG	17.61	16.95	23.98	-6.37	3.40	21.01	30.00	-8.99	
5510	102	AVG	16.36	16.05	23.98	-7.62	2.60	18.96	30.00	-11.04	
5550	110	AVG	19.82	19.91	23.98	-4.16	2.60	22.42	30.00	-7.58	
5630	126	AVG	19.83	19.74	23.98	-4.15	2.60	22.43	30.00	-7.57	
5670	134	AVG	18.30	17.99	23.98	-5.68	2.60	20.90	30.00	-9.10	
5710	142	AVG	20.00	19.79	23.98	-3.98	2.60	22.60	30.00	-7.40	
5755	151	AVG	19.45	19.82	30.00	-10.55	1.20	20.65	-	-	
5795	159	AVG	19.87	19.98	30.00	-10.13	1.20	21.07	-	-	

Table 7-26. ISED Ant1 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						
				5190	38						
5230	46	AVG	17.40	17.25	-	-	3.30	20.70	23.01	-2.31	
5270	54	AVG	19.92	19.75	23.98	-4.06	3.40	23.32	30.00	-6.68	
5310	62	AVG	16.26	15.41	23.98	-7.72	3.40	19.66	30.00	-10.34	
5510	102	AVG	15.49	14.95	23.98	-8.49	2.60	18.09	30.00	-11.91	
5550	110	AVG	19.74	19.93	23.98	-4.24	2.60	22.34	30.00	-7.66	
5630	126	AVG	19.71	19.99	23.98	-4.27	2.60	22.31	30.00	-7.69	
5670	134	AVG	17.58	17.38	23.98	-6.40	2.60	20.18	30.00	-9.82	
5710	142	AVG	19.86	19.92	23.98	-4.12	2.60	22.46	30.00	-7.54	
5755	151	AVG	18.94	19.83	30.00	-11.06	1.20	20.14	-	-	
5795	159	AVG	19.97	19.80	30.00	-10.03	1.20	21.17	-	-	


Table 7-27. ISED Ant1 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid 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						
				5190	38						
5230	46	AVG	17.40	17.40	-	-	3.30	20.70	23.01	-2.31	
5270	54	AVG	19.82	20.00	23.98	-4.16	3.40	23.22	30.00	-6.78	
5310	62	AVG	15.40	14.30	23.98	-8.58	3.40	18.80	30.00	-11.20	
5510	102	AVG	14.50	13.39	23.98	-9.48	2.60	17.10	30.00	-12.90	
5550	110	AVG	19.72	19.46	23.98	-4.26	2.60	22.32	30.00	-7.68	
5630	126	AVG	19.70	19.81	23.98	-4.28	2.60	22.30	30.00	-7.70	
5670	134	AVG	15.84	15.88	23.98	-8.14	2.60	18.44	30.00	-11.56	
5710	142	AVG	19.86	19.78	23.98	-4.12	2.60	22.46	30.00	-7.54	
5755	151	AVG	18.62	20.00	30.00	-11.38	1.20	19.82	-	-	
5795	159	AVG	19.94	19.82	30.00	-10.06	1.20	21.14	-	-	

Table 7-28. ISED Ant1 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						
				5210	42						
5290	58	AVG	13.92	13.30	23.98	-10.06	3.40	17.32	30.00	-12.68	
5530	106	AVG	16.40	16.19	23.98	-7.58	2.60	19.00	30.00	-11.00	
5690	138	AVG	20.00	19.96	23.98	-3.98	2.60	22.60	30.00	-7.40	
5775	155	AVG	18.28	18.08	30.00	-11.72	1.20	19.48	-	-	

Table 7-29. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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						
				5210	42						
5290	58	AVG	13.40	11.91	23.98	-10.58	3.40	16.80	30.00	-13.20	
5530	106	AVG	15.78	13.95	23.98	-8.20	2.60	18.38	30.00	-11.62	
5690	138	AVG	19.83	19.95	23.98	-4.15	2.60	22.43	30.00	-7.57	
5775	155	AVG	18.41	18.11	30.00	-11.59	1.20	19.61	-	-	

Table 7-30. ISED Ant1 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						
				5210	42						
5290	58	AVG	12.99	10.86	23.98	-10.99	3.40	16.39	30.00	-13.61	
5530	106	AVG	14.23	13.50	23.98	-9.75	2.60	16.83	30.00	-13.17	
5690	138	AVG	19.90	19.72	23.98	-4.08	2.60	22.50	30.00	-7.50	
5775	155	AVG	18.16	17.81	30.00	-11.84	1.20	19.36	-	-	

Table 7-31. ISED Ant1 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 60 of 322


7.4.3 FCC Ant2 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		
	5180	36	AVG	18.19	18.13	17.62	23.98	-5.79
	5200	40	AVG	19.37	19.40	19.38	23.98	-4.58
	5240	48	AVG	19.43	19.45	19.31	23.98	-4.53
	5260	52	AVG	19.46	19.40	19.37	23.98	-4.52
	5280	56	AVG	19.31	19.49	19.40	23.98	-4.49
	5320	64	AVG	18.78	18.74	18.10	23.98	-5.20
	5500	100	AVG	19.35	19.46	18.95	23.98	-4.52
	5520	104	AVG	19.27	19.28	19.44	23.98	-4.70
	5580	116	AVG	19.50	19.47	19.50	23.98	-4.48
	5680	136	AVG	19.43	19.45	19.30	23.98	-4.53
	5700	140	AVG	15.87	15.92	19.20	23.98	-8.06
	5720	144	AVG	19.37	19.31	19.23	23.98	-4.61
	5745	149	AVG	19.90	19.97	19.84	30.00	-10.03
	5785	157	AVG	19.84	19.71	19.99	30.00	-10.16
	5825	165	AVG	19.99	19.91	20.00	30.00	-10.01

Table 7-32. FCC Ant2 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		
	5180	36	AVG	17.61	17.65	16.40	23.98	-6.33
	5200	40	AVG	19.33	19.43	19.45	23.98	-4.55
	5240	48	AVG	19.43	19.44	19.42	23.98	-4.54
	5260	52	AVG	19.48	19.37	19.48	23.98	-4.50
	5280	56	AVG	19.25	19.42	19.43	23.98	-4.56
	5320	64	AVG	18.49	18.50	17.78	23.98	-5.48
	5500	100	AVG	17.18	17.07	16.89	23.98	-6.80
	5520	104	AVG	19.48	19.48	19.44	23.98	-4.50
	5580	116	AVG	19.44	19.32	19.41	23.98	-4.54
	5680	136	AVG	19.50	19.50	19.49	23.98	-4.48
	5700	140	AVG	14.31	14.40	17.50	23.98	-9.58
	5720	144	AVG	19.49	19.48	19.34	23.98	-4.49
	5745	149	AVG	19.89	19.90	20.00	30.00	-10.10
	5785	157	AVG	19.97	19.99	19.99	30.00	-10.01
	5825	165	AVG	19.93	19.88	19.89	30.00	-10.07

Table 7-33. FCC Ant2 20MHz BW (UNII) Maximum Conducted Output Power (Mid Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5180	36	AVG	16.09	16.23	15.98	23.98	-7.75
5200	40	AVG	19.20	19.44	19.41	23.98	-4.54	
5240	48	AVG	19.34	19.23	19.33	23.98	-4.64	
5260	52	AVG	19.21	19.46	19.46	23.98	-4.52	
5280	56	AVG	19.33	19.25	19.38	23.98	-4.65	
5320	64	AVG	17.74	17.77	17.41	23.98	-6.21	
5500	100	AVG	15.12	15.15	14.80	23.98	-8.83	
5520	104	AVG	19.30	19.39	19.23	23.98	-4.59	
5540	108	AVG	19.44	19.32	19.41	23.98	-4.54	
5580	116	AVG	19.48	19.49	19.21	23.98	-4.49	
5680	136	AVG	19.36	19.49	19.32	23.98	-4.49	
5700	140	AVG	14.15	14.14	15.82	23.98	-9.83	
5720	144	AVG	19.36	19.20	19.48	23.98	-4.62	
5745	149	AVG	19.96	19.87	19.78	30.00	-10.04	
5785	157	AVG	20.00	19.74	19.80	30.00	-10.00	
5825	165	AVG	19.86	19.88	19.72	30.00	-10.12	

Table 7-34. FCC Ant2 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		
	5190	38	AVG	15.18	14.25	23.98	-8.80
5230	46	AVG	19.70	19.72	23.98	-4.28	
5270	54	AVG	19.78	19.99	23.98	-4.20	
5310	62	AVG	17.68	16.98	23.98	-6.30	
5510	102	AVG	16.34	16.13	23.98	-7.64	
5550	110	AVG	19.92	19.96	23.98	-4.06	
5590	118	AVG	19.96	19.89	23.98	-4.02	
5630	126	AVG	19.92	19.97	23.98	-4.06	
5670	134	AVG	18.39	18.14	23.98	-5.59	
5710	142	AVG	19.91	19.99	23.98	-4.07	
5755	151	AVG	19.23	19.84	30.00	-10.77	
5795	159	AVG	19.90	19.98	30.00	-10.10	

Table 7-35. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (Low Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5190	38	AVG	14.72	13.19	23.98	-9.26
5230	46	AVG	19.70	19.05	23.98	-4.28	
5270	54	AVG	19.88	19.98	23.98	-4.10	
5310	62	AVG	16.29	15.26	23.98	-7.69	
5510	102	AVG	15.30	14.87	23.98	-8.68	
5550	110	AVG	19.92	19.87	23.98	-4.06	
5590	118	AVG	19.75	19.83	23.98	-4.23	
5630	126	AVG	20.00	19.87	23.98	-3.98	
5670	134	AVG	17.64	17.36	23.98	-6.34	
5710	142	AVG	19.74	19.80	23.98	-4.24	
5755	151	AVG	18.84	19.91	30.00	-11.16	
5795	159	AVG	19.77	19.89	30.00	-10.23	

Table 7-36. FCC Ant2 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		
	5190	38	AVG	13.94	12.34	23.98	-10.04
5230	46	AVG	19.94	19.24	23.98	-4.04	
5270	54	AVG	19.78	19.87	23.98	-4.20	
5310	62	AVG	15.47	14.31	23.98	-8.51	
5510	102	AVG	14.48	13.41	23.98	-9.50	
5550	110	AVG	19.86	19.31	23.98	-4.12	
5590	118	AVG	19.98	19.86	23.98	-4.00	
5630	126	AVG	19.98	19.97	23.98	-4.00	
5670	134	AVG	15.70	15.83	23.98	-8.28	
5710	142	AVG	19.89	19.90	23.98	-4.09	
5755	151	AVG	18.57	20.00	30.00	-11.43	
5795	159	AVG	19.93	19.97	30.00	-10.07	

Table 7-37. FCC Ant2 40MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical 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		
	5210	42	AVG	13.65	12.44	23.98	-10.33
5290	58	AVG	13.73	13.27	23.98	-10.25	
5530	106	AVG	16.23	15.98	23.98	-7.75	
5610	122	AVG	19.75	19.92	23.98	-4.23	
5690	138	AVG	19.99	19.93	23.98	-3.99	
5775	155	AVG	18.46	18.17	30.00	-11.54	


Table 7-38. FCC Ant2 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		
	5210	42	AVG	13.04	11.33	23.98	-10.94
5290	58	AVG	13.40	11.79	23.98	-10.58	
5530	106	AVG	16.00	13.98	23.98	-7.98	
5610	122	AVG	19.45	19.61	23.98	-4.53	
5690	138	AVG	19.86	19.81	23.98	-4.12	
5775	155	AVG	18.41	18.03	30.00	-11.59	

Table 7-39. FCC Ant2 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		
	5210	42	AVG	12.32	11.27	23.98	-11.66
5290	58	AVG	12.88	10.75	23.98	-11.10	
5530	106	AVG	14.12	13.56	23.98	-9.86	
5610	122	AVG	19.18	18.95	23.98	-4.80	
5690	138	AVG	19.91	19.99	23.98	-4.07	
5775	155	AVG	18.08	17.78	30.00	-11.92	

Table 7-40. FCC Ant2 80MHz BW (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device		Page 64 of 322

7.4.4 ISED Ant2 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						
	5180	36	AVG	14.81	14.95	14.83	-	-	2.50	17.45	23.01	-5.56
5200	40	AVG	14.81	14.79	14.83	-	-	2.50	17.31	23.01	-5.70	
5240	48	AVG	14.89	14.89	14.92	-	-	2.50	17.39	23.01	-5.62	
5260	52	AVG	19.46	19.40	19.37	23.98	-4.52	2.30	21.76	30.00	-8.24	
5280	56	AVG	19.31	19.49	19.40	23.98	-4.49	2.30	21.79	30.00	-8.21	
5320	64	AVG	18.78	18.74	18.10	23.98	-5.20	2.30	21.08	30.00	-8.92	
5500	100	AVG	19.35	19.46	18.95	23.98	-4.52	1.80	21.26	30.00	-8.74	
5580	116	AVG	19.50	19.47	19.50	23.98	-4.48	1.80	21.30	30.00	-8.70	
5680	136	AVG	19.43	19.45	19.30	23.98	-4.53	1.80	21.25	30.00	-8.75	
5700	140	AVG	15.87	15.92	19.20	23.98	-8.06	1.80	17.72	30.00	-12.28	
5720	144	AVG	19.37	19.31	19.23	23.98	-4.61	1.80	21.17	30.00	-8.83	
5745	149	AVG	19.90	19.97	19.84	30.00	-10.03	2.30	22.27	-	-	
5785	157	AVG	19.84	19.71	19.99	30.00	-10.16	2.30	22.14	-	-	
5825	165	AVG	19.99	19.91	20.00	30.00	-10.01	2.30	22.29	-	-	


Table 7-41. ISED Ant2 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						
	5180	36	AVG	14.70	14.97	14.99	-	-	2.50	17.47	23.01	-5.54
5200	40	AVG	14.92	14.70	14.98	-	-	2.50	17.42	23.01	-5.59	
5240	48	AVG	14.99	14.84	14.84	-	-	2.50	17.49	23.01	-5.52	
5260	52	AVG	19.48	19.37	19.48	23.98	-4.50	2.30	21.78	30.00	-8.22	
5280	56	AVG	19.25	19.42	19.43	23.98	-4.56	2.30	21.72	30.00	-8.28	
5320	64	AVG	18.49	18.50	17.78	23.98	-5.48	2.30	20.80	30.00	-9.20	
5500	100	AVG	17.18	17.07	16.89	23.98	-6.80	1.80	18.98	30.00	-11.02	
5580	116	AVG	19.44	19.32	19.41	23.98	-4.54	1.80	21.24	30.00	-8.76	
5680	136	AVG	19.50	19.50	19.49	23.98	-4.48	1.80	21.30	30.00	-8.70	
5700	140	AVG	14.31	14.40	17.50	23.98	-9.58	1.80	16.20	30.00	-13.80	
5720	144	AVG	19.49	19.48	19.34	23.98	-4.49	1.80	21.29	30.00	-8.71	
5745	149	AVG	19.89	19.90	20.00	30.00	-10.10	2.30	22.20	-	-	
5785	157	AVG	19.97	19.99	19.99	30.00	-10.01	2.30	22.29	-	-	
5825	165	AVG	19.93	19.88	19.89	30.00	-10.07	2.30	22.23	-	-	

Table 7-42. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid 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						
	5180	36	AVG	14.92	14.82	14.78	-	-	2.50	17.42	23.01	-5.59
5200	40	AVG	14.96	14.84	14.81	-	-	2.50	17.46	23.01	-5.55	
5240	48	AVG	14.82	14.99	14.75	-	-	2.50	17.49	23.01	-5.52	
5260	52	AVG	19.21	19.46	19.46	23.98	-4.52	2.30	21.76	30.00	-8.24	
5280	56	AVG	19.33	19.25	19.38	23.98	-4.65	2.30	21.63	30.00	-8.37	
5320	64	AVG	17.74	17.77	17.41	23.98	-6.21	2.30	20.07	30.00	-9.93	
5500	100	AVG	15.12	15.15	14.80	23.98	-8.83	1.80	16.95	30.00	-13.05	
5520	104	AVG	19.30	19.39	19.23	23.98	-4.59	1.80	21.19	30.00	-8.81	
5580	116	AVG	19.48	19.49	19.21	23.98	-4.49	1.80	21.29	30.00	-8.71	
5680	136	AVG	19.36	19.49	19.32	23.98	-4.49	1.80	21.29	30.00	-8.71	
5700	140	AVG	14.15	14.14	15.82	23.98	-9.83	1.80	15.95	30.00	-14.05	
5720	144	AVG	19.36	19.20	19.48	23.98	-4.62	1.80	21.16	30.00	-8.84	
5745	149	AVG	19.96	19.87	19.78	30.00	-10.04	2.30	22.26	-	-	
5785	157	AVG	20.00	19.74	19.80	30.00	-10.00	2.30	22.30	-	-	
5825	165	AVG	19.86	19.88	19.72	30.00	-10.12	2.30	22.18	-	-	

Table 7-43. ISED Ant2 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device		Page 65 of 322

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						
				5190	38						
5230	46	AVG	17.34	17.41	-	-	2.50	19.84	23.01	-3.17	
5270	54	AVG	19.78	19.99	23.98	-4.20	2.30	22.08	30.00	-7.92	
5310	62	AVG	17.68	16.98	23.98	-6.30	2.30	19.98	30.00	-10.02	
5510	102	AVG	16.34	16.13	23.98	-7.64	1.80	18.14	30.00	-11.86	
5550	110	AVG	19.92	19.96	23.98	-4.06	1.80	21.72	30.00	-8.28	
5630	126	AVG	19.92	19.97	23.98	-4.06	1.80	21.72	30.00	-8.28	
5670	134	AVG	18.39	18.14	23.98	-5.59	1.80	20.19	30.00	-9.81	
5710	142	AVG	19.91	19.99	23.98	-4.07	1.80	21.71	30.00	-8.29	
5755	151	AVG	19.23	19.84	30.00	-10.77	2.30	21.53	-	-	
5795	159	AVG	19.90	19.98	30.00	-10.10	2.30	22.20	-	-	

Table 7-44. ISED Ant2 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						
				5190	38						
5230	46	AVG	17.31	17.23	-	-	2.50	19.81	23.01	-3.20	
5270	54	AVG	19.88	19.98	23.98	-4.10	2.30	22.18	30.00	-7.82	
5310	62	AVG	16.29	15.26	23.98	-7.69	2.30	18.59	30.00	-11.41	
5510	102	AVG	15.30	14.87	23.98	-8.68	1.80	17.10	30.00	-12.90	
5550	110	AVG	19.92	19.87	23.98	-4.06	1.80	21.72	30.00	-8.28	
5630	126	AVG	20.00	19.87	23.98	-3.98	1.80	21.80	30.00	-8.20	
5670	134	AVG	17.64	17.36	23.98	-6.34	1.80	19.44	30.00	-10.56	
5710	142	AVG	19.74	19.80	23.98	-4.24	1.80	21.54	30.00	-8.46	
5755	151	AVG	18.84	19.91	30.00	-11.16	2.30	21.14	-	-	
5795	159	AVG	19.77	19.89	30.00	-10.23	2.30	22.07	-	-	


Table 7-45. ISED Ant2 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Mid 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						
				5190	38						
5230	46	AVG	17.50	17.50	-	-	2.50	20.00	23.01	-3.01	
5270	54	AVG	19.78	19.87	23.98	-4.20	2.30	22.08	30.00	-7.92	
5310	62	AVG	15.47	14.31	23.98	-8.51	2.30	17.77	30.00	-12.23	
5510	102	AVG	14.48	13.41	23.98	-9.50	1.80	16.28	30.00	-13.72	
5550	110	AVG	19.86	19.31	23.98	-4.12	1.80	21.66	30.00	-8.34	
5630	126	AVG	19.98	19.97	23.98	-4.00	1.80	21.78	30.00	-8.22	
5670	134	AVG	15.70	15.83	23.98	-8.28	1.80	17.50	30.00	-12.50	
5710	142	AVG	19.89	19.90	23.98	-4.09	1.80	21.69	30.00	-8.31	
5755	151	AVG	18.57	20.00	30.00	-11.43	2.30	20.87	-	-	
5795	159	AVG	19.93	19.97	30.00	-10.07	2.30	22.23	-	-	

Table 7-46. ISED Ant2 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						
				5210	42						
5290	58	AVG	13.73	13.27	23.98	-10.25	2.30	16.03	30.00	-13.97	
5530	106	AVG	16.23	15.98	23.98	-7.75	1.80	18.03	30.00	-11.97	
5690	138	AVG	19.99	19.93	23.98	-3.99	1.80	21.79	30.00	-8.21	
5775	155	AVG	18.46	18.17	30.00	-11.54	2.30	20.76	-	-	

Table 7-47. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device		Page 66 of 322

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						
				5210	42						
5290	58	AVG	13.40	11.79	23.98	-10.58	2.30	15.70	30.00	-14.30	
5530	106	AVG	16.00	13.98	23.98	-7.98	1.80	17.80	30.00	-12.20	
5690	138	AVG	19.86	19.81	23.98	-4.12	1.80	21.66	30.00	-8.34	
5775	155	AVG	18.41	18.03	30.00	-11.59	2.30	20.71	-	-	

Table 7-48. ISED Ant2 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						
				5210	42						
5290	58	AVG	12.88	10.75	23.98	-11.10	2.30	15.18	30.00	-14.82	
5530	106	AVG	14.12	13.56	23.98	-9.86	1.80	15.92	30.00	-14.08	
5690	138	AVG	19.91	19.99	23.98	-4.07	1.80	21.71	30.00	-8.29	
5775	155	AVG	18.08	17.78	30.00	-11.92	2.30	20.38	-	-	

Table 7-49. ISED Ant2 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2117 IC: 579C-A2117	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 67 of 322


7.4.5 FCC CDD Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
					5180	36	CDD		
5200	40	CDD	AVG	16.24	16.48	19.37	23.98	-4.61	
5240	48	CDD	AVG	16.46	16.37	19.43	23.98	-4.55	
5260	52	CDD	AVG	16.43	16.38	19.42	23.98	-4.56	
5280	56	CDD	AVG	16.35	16.49	19.43	23.98	-4.55	
5320	64	CDD	AVG	16.39	16.27	19.34	23.98	-4.64	
5500	100	CDD	AVG	16.30	16.44	19.38	23.98	-4.60	
5580	116	CDD	AVG	16.46	16.29	19.39	23.98	-4.59	
5680	136	CDD	AVG	16.37	16.34	19.37	23.98	-4.61	
5700	140	CDD	AVG	15.98	15.91	18.96	23.98	-5.02	
5720	144	CDD	AVG	16.42	16.37	19.41	23.98	-4.57	
5745	149	CDD	AVG	19.76	19.89	22.84	30.00	-7.16	
5785	157	CDD	AVG	19.73	19.99	22.87	30.00	-7.13	
5825	165	CDD	AVG	19.98	20.00	23.00	30.00	-7.00	

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]
					Ant1	Ant2	Summed		
					5180	36	CDD		
5200	40	CDD	AVG	16.37	16.39	19.39	23.98	-4.59	
5240	48	CDD	AVG	16.31	16.22	19.28	23.98	-4.70	
5260	52	CDD	AVG	16.50	16.49	19.51	23.98	-4.47	
5280	56	CDD	AVG	16.44	16.29	19.38	23.98	-4.60	
5320	64	CDD	AVG	16.50	16.36	19.44	23.98	-4.54	
5500	100	CDD	AVG	16.35	16.41	19.39	23.98	-4.59	
5520	104	CDD	AVG	16.30	16.42	19.37	23.98	-4.61	
5580	116	CDD	AVG	16.27	16.44	19.37	23.98	-4.61	
5680	136	CDD	AVG	16.50	16.42	19.47	23.98	-4.51	
5700	140	CDD	AVG	14.39	14.36	17.39	23.98	-6.59	
5720	144	CDD	AVG	16.36	16.46	19.42	23.98	-4.56	
5745	149	CDD	AVG	19.87	19.93	22.91	30.00	-7.09	
5785	157	CDD	AVG	19.76	19.82	22.80	30.00	-7.20	
5825	165	CDD	AVG	19.94	19.92	22.94	30.00	-7.06	

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


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 68 of 322

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	15.64	15.67	18.67	23.98	-5.31
	5200	40	CDD	AVG	16.33	16.33	19.34	23.98	-4.64
	5240	48	CDD	AVG	16.36	16.23	19.31	23.98	-4.67
	5260	52	CDD	AVG	16.50	16.40	19.46	23.98	-4.52
	5280	56	CDD	AVG	16.35	16.30	19.34	23.98	-4.64
	5320	64	CDD	AVG	16.38	16.30	19.35	23.98	-4.63
	5500	100	CDD	AVG	14.88	14.98	17.94	23.98	-6.04
	5520	104	CDD	AVG	16.34	16.44	19.40	23.98	-4.58
	5580	116	CDD	AVG	16.26	16.43	19.36	23.98	-4.62
	5680	136	CDD	AVG	16.50	16.43	19.48	23.98	-4.50
	5700	140	CDD	AVG	14.03	14.01	17.03	23.98	-6.95
	5720	144	CDD	AVG	16.41	16.49	19.46	23.98	-4.52
	5745	149	CDD	AVG	19.91	20.00	22.97	30.00	-7.03
5785	157	CDD	AVG	19.88	19.75	22.83	30.00	-7.17	
5825	165	CDD	AVG	19.93	19.96	22.96	30.00	-7.04	

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]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	16.37	16.50	19.45	23.98	-4.53
	5200	40	CDD	AVG	16.35	16.50	19.44	23.98	-4.54
	5240	48	CDD	AVG	16.27	16.33	19.31	23.98	-4.67
	5260	52	CDD	AVG	16.36	16.47	19.43	23.98	-4.55
	5280	56	CDD	AVG	16.38	16.43	19.42	23.98	-4.56
	5320	64	CDD	AVG	16.28	16.48	19.39	23.98	-4.59
	5500	100	CDD	AVG	16.45	16.50	19.49	23.98	-4.49
	5580	116	CDD	AVG	16.23	16.44	19.35	23.98	-4.63
	5680	136	CDD	AVG	16.39	16.50	19.46	23.98	-4.52
	5700	140	CDD	AVG	15.88	15.80	18.85	23.98	-5.13
	5720	144	CDD	AVG	16.41	16.28	19.36	23.98	-4.62
	5745	149	CDD	AVG	19.93	19.95	22.95	30.00	-7.05
	5785	157	CDD	AVG	20.00	19.89	22.96	30.00	-7.04
5825	165	CDD	AVG	20.00	19.88	22.95	30.00	-7.05	

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


FCC ID: BCGA2117 IC: 579C-A2117	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 69 of 322

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	16.43	16.20	19.33	23.98	-4.65
	5200	40	CDD	AVG	16.40	16.39	19.41	23.98	-4.57
	5240	48	CDD	AVG	16.50	16.46	19.49	23.98	-4.49
	5260	52	CDD	AVG	16.46	16.33	19.41	23.98	-4.57
	5280	56	CDD	AVG	16.49	16.25	19.38	23.98	-4.60
	5320	64	CDD	AVG	16.37	16.38	19.39	23.98	-4.59
	5500	100	CDD	AVG	16.35	16.30	19.34	23.98	-4.64
	5520	104	CDD	AVG	16.45	16.39	19.43	23.98	-4.55
	5580	116	CDD	AVG	16.37	16.43	19.41	23.98	-4.57
	5680	136	CDD	AVG	16.41	16.40	19.42	23.98	-4.56
	5700	140	CDD	AVG	14.30	14.39	17.36	23.98	-6.62
	5720	144	CDD	AVG	16.34	16.38	19.37	23.98	-4.61
	5745	149	CDD	AVG	19.81	19.87	22.85	30.00	-7.15
	5785	157	CDD	AVG	19.96	19.90	22.94	30.00	-7.06
	5825	165	CDD	AVG	19.92	19.88	22.91	30.00	-7.09

Table 7-54. FCC CDD 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]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	15.48	15.74	18.62	23.98	-5.36
	5200	40	CDD	AVG	16.45	16.37	19.42	23.98	-4.56
	5240	48	CDD	AVG	16.35	16.47	19.42	23.98	-4.56
	5260	52	CDD	AVG	16.32	16.35	19.35	23.98	-4.63
	5280	56	CDD	AVG	16.47	16.38	19.44	23.98	-4.54
	5320	64	CDD	AVG	16.22	16.33	19.29	23.98	-4.69
	5500	100	CDD	AVG	14.99	14.76	17.89	23.98	-6.09
	5520	104	CDD	AVG	16.49	16.36	19.44	23.98	-4.54
	5580	116	CDD	AVG	16.45	16.45	19.46	23.98	-4.52
	5680	136	CDD	AVG	16.48	16.40	19.45	23.98	-4.53
	5700	140	CDD	AVG	14.07	14.14	17.12	23.98	-6.86
	5720	144	CDD	AVG	16.33	16.32	19.34	23.98	-4.64
	5745	149	CDD	AVG	19.84	19.93	22.90	30.00	-7.10
	5785	157	CDD	AVG	19.95	19.99	22.98	30.00	-7.02
	5825	165	CDD	AVG	19.85	19.99	22.93	30.00	-7.07

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


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 70 of 322

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	16.23	16.50	19.38	23.98	-4.60
	5200	40	CDD	AVG	16.50	16.38	19.45	23.98	-4.53
	5240	48	CDD	AVG	16.50	16.50	19.51	23.98	-4.47
	5260	52	CDD	AVG	16.44	16.44	19.45	23.98	-4.53
	5280	56	CDD	AVG	16.30	16.38	19.35	23.98	-4.63
	5320	64	CDD	AVG	16.44	16.43	19.45	23.98	-4.53
	5500	100	CDD	AVG	16.31	16.50	19.42	23.98	-4.56
	5580	116	CDD	AVG	16.34	16.50	19.43	23.98	-4.55
5680	136	CDD	AVG	16.40	16.50	19.46	23.98	-4.52	
5700	140	CDD	AVG	16.00	15.83	18.93	23.98	-5.05	
5720	144	CDD	AVG	16.50	16.45	19.49	23.98	-4.49	
5745	149	CDD	AVG	19.99	19.79	22.90	30.00	-7.10	
5785	157	CDD	AVG	20.00	19.82	22.92	30.00	-7.08	
5825	165	CDD	AVG	20.00	19.93	22.98	30.00	-7.02	

Table 7-56. FCC CDD 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]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	15.60	15.70	18.66	23.98	-5.32
	5200	40	CDD	AVG	16.47	16.42	19.46	23.98	-4.52
	5240	48	CDD	AVG	16.32	16.41	19.38	23.98	-4.60
	5260	52	CDD	AVG	16.42	16.25	19.35	23.98	-4.63
	5280	56	CDD	AVG	16.49	16.46	19.49	23.98	-4.49
	5320	64	CDD	AVG	16.38	16.32	19.36	23.98	-4.62
	5500	100	CDD	AVG	16.30	16.38	19.35	23.98	-4.63
	5520	104	CDD	AVG	16.46	16.37	19.43	23.98	-4.55
5580	116	CDD	AVG	16.31	16.37	19.35	23.98	-4.63	
5680	136	CDD	AVG	16.50	16.44	19.48	23.98	-4.50	
5700	140	CDD	AVG	14.86	15.00	17.94	23.98	-6.04	
5720	144	CDD	AVG	16.42	16.30	19.37	23.98	-4.61	
5745	149	CDD	AVG	19.95	20.00	22.99	30.00	-7.01	
5785	157	CDD	AVG	19.83	20.00	22.93	30.00	-7.07	
5825	165	CDD	AVG	19.80	19.93	22.88	30.00	-7.12	

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


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 71 of 322

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5180	36	CDD	AVG	15.25	15.25	18.26	23.98	-5.72
5200	40	CDD	AVG	16.47	16.35	19.42	23.98	-4.56	
5240	48	CDD	AVG	16.40	16.46	19.44	23.98	-4.54	
5260	52	CDD	AVG	16.38	16.43	19.42	23.98	-4.56	
5280	56	CDD	AVG	16.31	16.40	19.37	23.98	-4.61	
5320	64	CDD	AVG	16.38	16.33	19.37	23.98	-4.61	
5500	100	CDD	AVG	14.54	14.50	17.53	23.98	-6.45	
5520	104	CDD	AVG	16.45	16.46	19.47	23.98	-4.51	
5580	116	CDD	AVG	16.35	16.44	19.41	23.98	-4.57	
5680	136	CDD	AVG	16.38	16.44	19.42	23.98	-4.56	
5700	140	CDD	AVG	14.70	14.56	17.64	23.98	-6.34	
5720	144	CDD	AVG	16.50	16.25	19.39	23.98	-4.59	
5745	149	CDD	AVG	19.74	19.89	22.83	30.00	-7.17	
5785	157	CDD	AVG	19.87	19.78	22.84	30.00	-7.16	
5825	165	CDD	AVG	19.81	19.91	22.87	30.00	-7.13	

Table 7-58. FCC CDD 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]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	14.70	14.77	17.75	23.98	-6.23
5230	46	CDD	AVG	18.81	18.99	21.91	23.98	-2.07	
5270	54	CDD	AVG	18.94	18.96	21.96	23.98	-2.02	
5310	62	CDD	AVG	17.00	17.25	20.14	23.98	-3.84	
5510	102	CDD	AVG	15.70	15.98	18.85	23.98	-5.13	
5550	110	CDD	AVG	18.86	19.00	21.94	23.98	-2.04	
5590	118	CDD	AVG	18.70	18.99	21.86	23.98	-2.12	
5630	126	CDD	AVG	18.70	19.00	21.86	23.98	-2.12	
5670	134	CDD	AVG	18.36	18.43	21.41	23.98	-2.57	
5710	142	CDD	AVG	18.92	19.00	21.97	23.98	-2.01	
5755	151	CDD	AVG	19.35	19.37	22.37	30.00	-7.63	
5795	159	CDD	AVG	19.75	19.99	22.88	30.00	-7.12	

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


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 72 of 322

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	14.11	14.15	17.14	23.98	-6.84
	5230	46	CDD	AVG	18.89	18.97	21.94	23.98	-2.04
	5270	54	CDD	AVG	18.70	19.00	21.86	23.98	-2.12
	5310	62	CDD	AVG	16.09	16.10	19.11	23.98	-4.87
	5510	102	CDD	AVG	14.73	14.68	17.72	23.98	-6.26
	5550	110	CDD	AVG	18.81	18.92	21.88	23.98	-2.10
	5590	118	CDD	AVG	18.70	18.76	21.74	23.98	-2.24
	5630	126	CDD	AVG	18.73	18.96	21.86	23.98	-2.12
5670	134	CDD	AVG	17.52	17.70	20.62	23.98	-3.36	
5710	142	CDD	AVG	18.82	18.99	21.92	23.98	-2.06	
5755	151	CDD	AVG	18.87	18.97	21.93	30.00	-8.07	
5795	159	CDD	AVG	19.73	19.77	22.76	30.00	-7.24	

Table 7-60. FCC CDD 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]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	13.50	13.75	16.64	23.98	-7.34
	5230	46	CDD	AVG	18.91	18.96	21.95	23.98	-2.03
	5270	54	CDD	AVG	18.89	18.99	21.95	23.98	-2.03
	5310	62	CDD	AVG	14.34	14.30	17.33	23.98	-6.65
	5510	102	CDD	AVG	14.01	14.14	17.09	23.98	-6.89
	5550	110	CDD	AVG	18.96	18.87	21.93	23.98	-2.05
	5590	118	CDD	AVG	18.89	18.90	21.91	23.98	-2.07
	5630	126	CDD	AVG	18.80	18.71	21.77	23.98	-2.21
5670	134	CDD	AVG	15.96	15.98	18.98	23.98	-5.00	
5710	142	CDD	AVG	18.98	18.91	21.96	23.98	-2.02	
5755	151	CDD	AVG	18.49	18.67	21.59	30.00	-8.41	
5795	159	CDD	AVG	19.75	19.91	22.84	30.00	-7.16	

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


FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 73 of 322

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	13.18	13.01	16.11	23.98	-7.87
5230	46	CDD	AVG	18.79	19.00	21.91	23.98	-2.07	
5270	54	CDD	AVG	18.91	18.86	21.90	23.98	-2.08	
5310	62	CDD	AVG	15.93	15.92	18.94	23.98	-5.04	
5510	102	CDD	AVG	14.62	14.65	17.65	23.98	-6.33	
5550	110	CDD	AVG	18.77	18.80	21.80	23.98	-2.18	
5590	118	CDD	AVG	18.94	18.91	21.94	23.98	-2.04	
5630	126	CDD	AVG	18.90	18.89	21.91	23.98	-2.07	
5670	134	CDD	AVG	17.97	18.17	21.08	23.98	-2.90	
5710	142	CDD	AVG	18.82	18.87	21.86	23.98	-2.12	
5755	151	CDD	AVG	19.79	19.86	22.84	30.00	-7.16	
5795	159	CDD	AVG	19.91	19.98	22.96	30.00	-7.04	

Table 7-62. FCC CDD 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]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	12.47	12.50	15.50	23.98	-8.48
5230	46	CDD	AVG	18.55	18.72	21.65	23.98	-2.33	
5270	54	CDD	AVG	18.84	18.97	21.92	23.98	-2.06	
5310	62	CDD	AVG	14.45	14.50	17.49	23.98	-6.49	
5510	102	CDD	AVG	14.51	14.75	17.64	23.98	-6.34	
5550	110	CDD	AVG	18.76	19.00	21.89	23.98	-2.09	
5590	118	CDD	AVG	18.87	18.99	21.94	23.98	-2.04	
5630	126	CDD	AVG	18.85	19.00	21.94	23.98	-2.04	
5670	134	CDD	AVG	17.36	17.50	20.44	23.98	-3.54	
5710	142	CDD	AVG	18.91	19.00	21.97	23.98	-2.01	
5755	151	CDD	AVG	19.98	20.00	23.00	30.00	-7.00	
5795	159	CDD	AVG	19.89	20.00	22.96	30.00	-7.04	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 74 of 322

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5190	38	CDD	AVG	12.25	12.24	15.26	23.98	-8.72
	5230	46	CDD	AVG	18.33	18.22	21.29	23.98	-2.69
	5270	54	CDD	AVG	18.98	18.91	21.96	23.98	-2.02
	5310	62	CDD	AVG	13.46	13.38	16.43	23.98	-7.55
	5510	102	CDD	AVG	13.20	13.15	16.19	23.98	-7.79
	5550	110	CDD	AVG	18.12	18.24	21.19	23.98	-2.79
	5590	118	CDD	AVG	18.82	18.84	21.84	23.98	-2.14
	5630	126	CDD	AVG	18.92	18.78	21.86	23.98	-2.12
5670	134	CDD	AVG	15.60	15.57	18.60	23.98	-5.38	
5710	142	CDD	AVG	18.96	18.88	21.93	23.98	-2.05	
5755	151	CDD	AVG	20.00	19.96	22.99	30.00	-7.01	
5795	159	CDD	AVG	19.96	19.98	22.98	30.00	-7.02	

Table 7-64. FCC CDD 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]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	12.09	12.17	15.14	23.98	-8.84
	5290	58	CDD	AVG	13.23	13.24	16.25	23.98	-7.73
	5530	106	CDD	AVG	14.94	15.00	17.98	23.98	-6.00
	5610	122	CDD	AVG	19.89	19.70	22.81	23.98	-1.17
5690	138	CDD	AVG	19.97	19.95	22.97	23.98	-1.01	
5775	155	CDD	AVG	18.68	18.75	21.73	30.00	-8.27	

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]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	11.43	11.23	14.34	23.98	-9.64
	5290	58	CDD	AVG	13.00	12.99	16.01	23.98	-7.97
	5530	106	CDD	AVG	14.21	14.17	17.20	23.98	-6.78
	5610	122	CDD	AVG	18.24	18.06	21.16	23.98	-2.82
5690	138	CDD	AVG	19.95	19.80	22.89	23.98	-1.09	
5775	155	CDD	AVG	17.73	17.54	20.65	30.00	-9.35	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	10.71	10.77	13.75	23.98	-10.23
5290	58	CDD	AVG	12.37	12.41	15.40	23.98	-8.58	
5530	106	CDD	AVG	14.10	14.11	17.12	23.98	-6.86	
5610	122	CDD	AVG	16.80	16.97	19.90	23.98	-4.08	
5690	138	CDD	AVG	19.96	19.94	22.96	23.98	-1.02	
5775	155	CDD	AVG	17.45	17.23	20.35	30.00	-9.65	

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]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	11.43	11.30	14.38	23.98	-9.60
5290	58	CDD	AVG	12.95	12.97	15.97	23.98	-8.01	
5530	106	CDD	AVG	15.18	14.99	18.10	23.98	-5.88	
5610	122	CDD	AVG	18.77	18.90	21.85	23.98	-2.13	
5690	138	CDD	AVG	19.72	19.72	22.73	23.98	-1.25	
5775	155	CDD	AVG	17.68	17.72	20.71	30.00	-9.29	


Table 7-68. FCC CDD 80MHz BW 802.11ax (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]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	10.70	10.95	13.84	23.98	-10.14
5290	58	CDD	AVG	11.90	11.91	14.92	23.98	-9.06	
5530	106	CDD	AVG	13.99	14.16	17.09	23.98	-6.89	
5610	122	CDD	AVG	17.85	17.99	20.93	23.98	-3.05	
5690	138	CDD	AVG	19.81	19.89	22.86	23.98	-1.12	
5775	155	CDD	AVG	16.86	16.78	19.83	30.00	-10.17	

Table 7-69. FCC CDD 80MHz BW 802.11ax (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]
					Ant1	Ant2	Summed		
	5210	42	CDD	AVG	10.62	10.65	13.65	23.98	-10.33
5290	58	CDD	AVG	10.94	10.94	13.95	23.98	-10.03	
5530	106	CDD	AVG	13.58	13.72	16.66	23.98	-7.32	
5610	122	CDD	AVG	17.62	17.75	20.70	23.98	-3.28	
5690	138	CDD	AVG	20.00	19.73	22.88	23.98	-1.10	
5775	155	CDD	AVG	16.90	16.97	19.95	30.00	-10.05	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.31	12.30	15.32	-	-	2.92	18.24	23.01	-4.77	
5240	48	SDM	AVG	12.34	12.37	15.37	-	-	2.92	18.29	23.01	-4.72	
5260	52	CDD	AVG	16.43	16.38	19.42	23.98	-4.56	5.88	25.30	30.00	-4.70	
5280	56	CDD	AVG	16.35	16.49	19.43	23.98	-4.55	5.88	25.31	30.00	-4.69	
5320	64	CDD	AVG	16.39	16.27	19.34	23.98	-4.64	5.88	25.22	30.00	-4.78	
5500	100	CDD	AVG	16.30	16.44	19.38	23.98	-4.60	5.22	24.60	30.00	-5.40	
5580	116	CDD	AVG	16.46	16.29	19.39	23.98	-4.59	5.22	24.61	30.00	-5.39	
5680	136	CDD	AVG	16.37	16.34	19.37	23.98	-4.61	5.22	24.59	30.00	-5.41	
5700	140	CDD	AVG	15.98	15.91	18.96	23.98	-5.02	5.22	24.18	30.00	-5.82	
5720	144	CDD	AVG	16.42	16.37	19.41	23.98	-4.57	5.22	24.63	30.00	-5.37	
5745	149	CDD	AVG	19.76	19.89	22.84	30.00	-7.16	4.78	27.62	-	-	
5785	157	CDD	AVG	19.73	19.99	22.87	30.00	-7.13	4.78	27.65	-	-	
5825	165	CDD	AVG	19.98	20.00	23.00	30.00	-7.00	4.78	27.78	-	-	


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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.44	12.30	15.38	-	-	2.92	18.30	23.01	-4.71	
5240	48	SDM	AVG	12.46	12.29	15.39	-	-	2.92	18.31	23.01	-4.70	
5260	52	CDD	AVG	16.50	16.49	19.51	23.98	-4.47	5.88	25.39	30.00	-4.61	
5280	56	CDD	AVG	16.44	16.29	19.38	23.98	-4.60	5.88	25.26	30.00	-4.74	
5320	64	CDD	AVG	16.50	16.36	19.44	23.98	-4.54	5.88	25.32	30.00	-4.68	
5500	100	CDD	AVG	16.35	16.41	19.39	23.98	-4.59	5.22	24.61	30.00	-5.39	
5580	116	CDD	AVG	16.27	16.44	19.37	23.98	-4.61	5.22	24.59	30.00	-5.41	
5680	136	CDD	AVG	16.50	16.42	19.47	23.98	-4.51	5.22	24.69	30.00	-5.31	
5700	140	CDD	AVG	14.39	14.36	17.39	23.98	-6.59	5.22	22.61	30.00	-7.39	
5720	144	CDD	AVG	16.36	16.46	19.42	23.98	-4.56	5.22	24.64	30.00	-5.36	
5745	149	CDD	AVG	19.87	19.93	22.91	30.00	-7.09	4.78	27.69	-	-	
5785	157	CDD	AVG	19.76	19.82	22.80	30.00	-7.20	4.78	27.58	-	-	
5825	165	CDD	AVG	19.94	19.92	22.94	30.00	-7.06	4.78	27.72	-	-	

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.50	12.25	15.39	-	-	2.92	18.31	23.01	-4.70	
5240	48	SDM	AVG	12.32	12.44	15.39	-	-	2.92	18.31	23.01	-4.70	
5260	52	CDD	AVG	16.50	16.40	19.46	23.98	-4.52	5.88	25.34	30.00	-4.66	
5280	56	CDD	AVG	16.35	16.30	19.34	23.98	-4.64	5.88	25.22	30.00	-4.78	
5320	64	CDD	AVG	16.38	16.30	19.35	23.98	-4.63	5.88	25.23	30.00	-4.77	
5500	100	CDD	AVG	14.88	14.98	17.94	23.98	-6.04	5.22	23.16	30.00	-6.84	
5520	104	CDD	AVG	16.34	16.44	19.40	23.98	-4.58	5.22	24.62	30.00	-5.38	
5580	116	CDD	AVG	16.26	16.43	19.36	23.98	-4.62	5.22	24.58	30.00	-5.42	
5680	136	CDD	AVG	16.50	16.43	19.48	23.98	-4.50	5.22	24.70	30.00	-5.30	
5700	140	CDD	AVG	14.03	14.01	17.03	23.98	-6.95	5.22	22.25	30.00	-7.75	
5720	144	CDD	AVG	16.41	16.49	19.46	23.98	-4.52	5.22	24.68	30.00	-5.32	
5745	149	CDD	AVG	19.91	20.00	22.97	30.00	-7.03	4.78	27.75	-	-	
5785	157	CDD	AVG	19.88	19.75	22.83	30.00	-7.17	4.78	27.61	-	-	
5825	165	CDD	AVG	19.93	19.96	22.96	30.00	-7.04	4.78	27.74	-	-	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 77 of 322

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.38	12.29	15.35	-	-	2.92	18.27	23.01	-4.74	
5240	48	SDM	AVG	12.34	12.35	15.36	-	-	2.92	18.28	23.01	-4.73	
5260	52	CDD	AVG	16.36	16.47	19.43	23.98	-4.55	5.88	25.31	30.00	-4.69	
5280	56	CDD	AVG	16.38	16.43	19.42	23.98	-4.56	5.88	25.30	30.00	-4.70	
5320	64	CDD	AVG	16.28	16.48	19.39	23.98	-4.59	5.88	25.27	30.00	-4.73	
5500	100	CDD	AVG	16.45	16.50	19.49	23.98	-4.49	5.22	24.71	30.00	-5.29	
5580	116	CDD	AVG	16.23	16.44	19.35	23.98	-4.63	5.22	24.57	30.00	-5.43	
5680	136	CDD	AVG	16.39	16.50	19.46	23.98	-4.52	5.22	24.68	30.00	-5.32	
5700	140	CDD	AVG	15.88	15.80	18.85	23.98	-5.13	5.22	24.07	30.00	-5.93	
5720	144	CDD	AVG	16.41	16.28	19.36	23.98	-4.62	5.22	24.58	30.00	-5.42	
5745	149	CDD	AVG	19.93	19.95	22.95	30.00	-7.05	4.78	27.73	-	-	
5785	157	CDD	AVG	20.00	19.89	22.96	30.00	-7.04	4.78	27.74	-	-	
5825	165	CDD	AVG	20.00	19.88	22.95	30.00	-7.05	4.78	27.73	-	-	


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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.36	12.24	15.31	-	-	2.92	18.23	23.01	-4.78	
5240	48	SDM	AVG	12.38	12.26	15.33	-	-	2.92	18.25	23.01	-4.76	
5260	52	CDD	AVG	16.46	16.33	19.41	23.98	-4.57	5.88	25.29	30.00	-4.71	
5280	56	CDD	AVG	16.49	16.25	19.38	23.98	-4.60	5.88	25.26	30.00	-4.74	
5320	64	CDD	AVG	16.37	16.38	19.39	23.98	-4.59	5.88	25.27	30.00	-4.73	
5500	100	CDD	AVG	16.35	16.30	19.34	23.98	-4.64	5.22	24.56	30.00	-5.44	
5580	116	CDD	AVG	16.37	16.43	19.41	23.98	-4.57	5.22	24.63	30.00	-5.37	
5680	136	CDD	AVG	16.41	16.40	19.42	23.98	-4.56	5.22	24.64	30.00	-5.36	
5700	140	CDD	AVG	14.30	14.39	17.36	23.98	-6.62	5.22	22.58	30.00	-7.42	
5720	144	CDD	AVG	16.34	16.38	19.37	23.98	-4.61	5.22	24.59	30.00	-5.41	
5745	149	CDD	AVG	19.81	19.87	22.85	30.00	-7.15	4.78	27.63	-	-	
5785	157	CDD	AVG	19.96	19.90	22.94	30.00	-7.06	4.78	27.72	-	-	
5825	165	CDD	AVG	19.92	19.88	22.91	30.00	-7.09	4.78	27.69	-	-	

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.36	12.45	15.42	-	-	2.92	18.34	23.01	-4.67	
5240	48	SDM	AVG	12.41	12.30	15.37	-	-	2.92	18.29	23.01	-4.72	
5260	52	CDD	AVG	16.32	16.35	19.35	23.98	-4.63	5.88	25.23	30.00	-4.77	
5280	56	CDD	AVG	16.47	16.38	19.44	23.98	-4.54	5.88	25.32	30.00	-4.68	
5320	64	CDD	AVG	16.22	16.33	19.29	23.98	-4.69	5.88	25.17	30.00	-4.83	
5500	100	CDD	AVG	14.99	14.76	17.89	23.98	-6.09	5.22	23.11	30.00	-6.89	
5520	104	CDD	AVG	16.49	16.36	19.44	23.98	-4.54	5.22	24.66	30.00	-5.34	
5580	116	CDD	AVG	16.45	16.45	19.46	23.98	-4.52	5.22	24.68	30.00	-5.32	
5680	136	CDD	AVG	16.48	16.40	19.45	23.98	-4.53	5.22	24.67	30.00	-5.33	
5700	140	CDD	AVG	14.07	14.14	17.12	23.98	-6.86	5.22	22.34	30.00	-7.66	
5720	144	CDD	AVG	16.33	16.32	19.34	23.98	-4.64	5.22	24.56	30.00	-5.44	
5745	149	CDD	AVG	19.84	19.93	22.90	30.00	-7.10	4.78	27.68	-	-	
5785	157	CDD	AVG	19.95	19.99	22.98	30.00	-7.02	4.78	27.76	-	-	
5825	165	CDD	AVG	19.85	19.99	22.93	30.00	-7.07	4.78	27.71	-	-	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 78 of 322

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.30	12.20	15.26	-	-	2.92	18.18	23.01	-4.83	
5240	48	SDM	AVG	12.33	12.39	15.37	-	-	2.92	18.29	23.01	-4.72	
5260	52	CDD	AVG	16.44	16.44	19.45	23.98	-4.53	5.88	25.33	30.00	-4.67	
5280	56	CDD	AVG	16.30	16.38	19.35	23.98	-4.63	5.88	25.23	30.00	-4.77	
5320	64	CDD	AVG	16.44	16.43	19.45	23.98	-4.53	5.88	25.33	30.00	-4.67	
5500	100	CDD	AVG	16.31	16.50	19.42	23.98	-4.56	5.22	24.64	30.00	-5.36	
5580	116	CDD	AVG	16.34	16.50	19.43	23.98	-4.55	5.22	24.65	30.00	-5.35	
5680	136	CDD	AVG	16.40	16.50	19.46	23.98	-4.52	5.22	24.68	30.00	-5.32	
5700	140	CDD	AVG	16.00	15.83	18.93	23.98	-5.05	5.22	24.15	30.00	-5.85	
5720	144	CDD	AVG	16.50	16.45	19.49	23.98	-4.49	5.22	24.71	30.00	-5.29	
5745	149	CDD	AVG	19.99	19.79	22.90	30.00	-7.10	4.78	27.68	-	-	
5785	157	CDD	AVG	20.00	19.82	22.92	30.00	-7.08	4.78	27.70	-	-	
5825	165	CDD	AVG	20.00	19.93	22.98	30.00	-7.02	4.78	27.76	-	-	

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.48	12.39	15.45	-	-	2.92	18.37	23.01	-4.64	
5240	48	SDM	AVG	12.30	12.46	15.39	-	-	2.92	18.31	23.01	-4.70	
5260	52	CDD	AVG	16.42	16.25	19.35	23.98	-4.63	5.88	25.23	30.00	-4.77	
5280	56	CDD	AVG	16.49	16.46	19.49	23.98	-4.49	5.88	25.37	30.00	-4.63	
5320	64	CDD	AVG	16.38	16.32	19.36	23.98	-4.62	5.88	25.24	30.00	-4.76	
5500	100	CDD	AVG	16.30	16.38	19.35	23.98	-4.63	5.22	24.57	30.00	-5.43	
5580	116	CDD	AVG	16.31	16.37	19.35	23.98	-4.63	5.22	24.57	30.00	-5.43	
5680	136	CDD	AVG	16.50	16.44	19.48	23.98	-4.50	5.22	24.70	30.00	-5.30	
5700	140	CDD	AVG	14.86	15.00	17.94	23.98	-6.04	5.22	23.16	30.00	-6.84	
5720	144	CDD	AVG	16.42	16.30	19.37	23.98	-4.61	5.22	24.59	30.00	-5.41	
5745	149	CDD	AVG	19.95	20.00	22.99	30.00	-7.01	4.78	27.77	-	-	
5785	157	CDD	AVG	19.83	20.00	22.93	30.00	-7.07	4.78	27.71	-	-	
5825	165	CDD	AVG	19.80	19.93	22.88	30.00	-7.12	4.78	27.66	-	-	

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]
					Ant1	Ant2	Summed						
					5180	36	SDM						
5200	40	SDM	AVG	12.33	12.22	15.29	-	-	2.92	18.21	23.01	-4.80	
5240	48	SDM	AVG	12.37	12.42	15.41	-	-	2.92	18.33	23.01	-4.68	
5260	52	CDD	AVG	16.38	16.43	19.42	23.98	-4.56	5.88	25.30	30.00	-4.70	
5280	56	CDD	AVG	16.31	16.40	19.37	23.98	-4.61	5.88	25.25	30.00	-4.75	
5320	64	CDD	AVG	16.38	16.33	19.37	23.98	-4.61	5.88	25.25	30.00	-4.75	
5500	100	CDD	AVG	14.54	14.50	17.53	23.98	-6.45	5.22	22.75	30.00	-7.25	
5520	104	CDD	AVG	16.45	16.46	19.47	23.98	-4.51	5.22	24.69	30.00	-5.31	
5580	116	CDD	AVG	16.35	16.44	19.41	23.98	-4.57	5.22	24.63	30.00	-5.37	
5680	136	CDD	AVG	16.38	16.44	19.42	23.98	-4.56	5.22	24.64	30.00	-5.36	
5700	140	CDD	AVG	14.70	14.56	17.64	23.98	-6.34	5.22	22.86	30.00	-7.14	
5720	144	CDD	AVG	16.50	16.25	19.39	23.98	-4.59	5.22	24.61	30.00	-5.39	
5745	149	CDD	AVG	19.74	19.89	22.83	30.00	-7.17	4.78	27.61	-	-	
5785	157	CDD	AVG	19.87	19.78	22.84	30.00	-7.16	4.78	27.62	-	-	
5825	165	CDD	AVG	19.81	19.91	22.87	30.00	-7.13	4.78	27.65	-	-	

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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 79 of 322

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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	14.90	14.98	17.95	-	-	2.92	20.87	23.01	-2.14	
5270	54	CDD	AVG	18.94	18.96	21.96	23.98	-2.02	5.88	27.84	30.00	-2.16	
5310	62	CDD	AVG	17.00	17.25	20.14	23.98	-3.84	5.88	26.02	30.00	-3.98	
5510	102	CDD	AVG	15.70	15.98	18.85	23.98	-5.13	5.22	24.07	30.00	-5.93	
5550	110	CDD	AVG	18.86	19.00	21.94	23.98	-2.04	5.22	27.16	30.00	-2.84	
5630	126	CDD	AVG	18.70	19.00	21.86	23.98	-2.12	5.22	27.08	30.00	-2.92	
5670	134	CDD	AVG	18.36	18.43	21.41	23.98	-2.57	5.22	26.63	30.00	-3.37	
5710	142	CDD	AVG	18.92	19.00	21.97	23.98	-2.01	5.22	27.19	30.00	-2.81	
5755	151	CDD	AVG	19.35	19.37	22.37	30.00	-7.63	4.78	27.15	-	-	
5795	159	CDD	AVG	19.75	19.99	22.88	30.00	-7.12	4.78	27.66	-	-	

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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	14.89	15.00	17.96	-	-	2.92	20.88	23.01	-2.13	
5270	54	CDD	AVG	18.70	19.00	21.86	23.98	-2.12	5.88	27.74	30.00	-2.26	
5310	62	CDD	AVG	16.09	16.10	19.11	23.98	-4.87	5.88	24.99	30.00	-5.01	
5510	102	CDD	AVG	14.73	14.68	17.72	23.98	-6.26	5.22	22.94	30.00	-7.06	
5550	110	CDD	AVG	18.81	18.92	21.88	23.98	-2.10	5.22	27.10	30.00	-2.90	
5630	126	CDD	AVG	18.73	18.96	21.86	23.98	-2.12	5.22	27.08	30.00	-2.92	
5670	134	CDD	AVG	17.52	17.70	20.62	23.98	-3.36	5.22	25.84	30.00	-4.16	
5710	142	CDD	AVG	18.82	18.99	21.92	23.98	-2.06	5.22	27.14	30.00	-2.86	
5755	151	CDD	AVG	18.87	18.97	21.93	30.00	-8.07	4.78	26.71	-	-	
5795	159	CDD	AVG	19.73	19.77	22.76	30.00	-7.24	4.78	27.54	-	-	


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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	14.81	15.00	17.92	-	-	2.92	20.84	23.01	-2.17	
5270	54	CDD	AVG	18.89	18.99	21.95	23.98	-2.03	5.88	27.83	30.00	-2.17	
5310	62	CDD	AVG	14.34	14.30	17.33	23.98	-6.65	5.88	23.21	30.00	-6.79	
5510	102	CDD	AVG	14.01	14.14	17.09	23.98	-6.89	5.22	22.31	30.00	-7.69	
5550	110	CDD	AVG	18.96	18.87	21.93	23.98	-2.05	5.22	27.15	30.00	-2.85	
5630	126	CDD	AVG	18.80	18.71	21.77	23.98	-2.21	5.22	26.99	30.00	-3.01	
5670	134	CDD	AVG	15.96	15.98	18.98	23.98	-5.00	5.22	24.20	30.00	-5.80	
5710	142	CDD	AVG	18.98	18.91	21.96	23.98	-2.02	5.22	27.18	30.00	-2.82	
5755	151	CDD	AVG	18.49	18.67	21.59	30.00	-8.41	4.78	26.37	-	-	
5795	159	CDD	AVG	19.75	19.91	22.84	30.00	-7.16	4.78	27.62	-	-	

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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	14.96	14.79	17.89	-	-	2.92	20.81	23.01	-2.20	
5270	54	CDD	AVG	18.91	18.86	21.90	23.98	-2.08	5.88	27.78	30.00	-2.22	
5310	62	CDD	AVG	15.93	15.92	18.94	23.98	-5.04	5.88	24.82	30.00	-5.18	
5510	102	CDD	AVG	14.62	14.65	17.65	23.98	-6.33	5.22	22.87	30.00	-7.13	
5550	110	CDD	AVG	18.77	18.80	21.80	23.98	-2.18	5.22	27.02	30.00	-2.98	
5630	126	CDD	AVG	18.90	18.89	21.91	23.98	-2.07	5.22	27.13	30.00	-2.87	
5670	134	CDD	AVG	17.97	18.17	21.08	23.98	-2.90	5.22	26.30	30.00	-3.70	
5710	142	CDD	AVG	18.82	18.87	21.86	23.98	-2.12	5.22	27.08	30.00	-2.92	
5755	151	CDD	AVG	19.79	19.86	22.84	30.00	-7.16	4.78	27.62	-	-	
5795	159	CDD	AVG	19.91	19.98	22.96	30.00	-7.04	4.78	27.74	-	-	

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

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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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	14.81	14.85	17.84	-	-	2.92	20.76	23.01	-2.25	
5270	54	CDD	AVG	18.84	18.97	21.92	23.98	-2.06	5.88	27.80	30.00	-2.20	
5310	62	CDD	AVG	14.45	14.50	17.49	23.98	-6.49	5.88	23.37	30.00	-6.63	
5510	102	CDD	AVG	14.51	14.75	17.64	23.98	-6.34	5.22	22.86	30.00	-7.14	
5550	110	CDD	AVG	18.76	19.00	21.89	23.98	-2.09	5.22	27.11	30.00	-2.89	
5630	126	CDD	AVG	18.85	19.00	21.94	23.98	-2.04	5.22	27.16	30.00	-2.84	
5670	134	CDD	AVG	17.36	17.50	20.44	23.98	-3.54	5.22	25.66	30.00	-4.34	
5710	142	CDD	AVG	18.91	19.00	21.97	23.98	-2.01	5.22	27.19	30.00	-2.81	
5755	151	CDD	AVG	19.98	20.00	23.00	30.00	-7.00	4.78	27.78	-	-	
5795	159	CDD	AVG	19.89	20.00	22.96	30.00	-7.04	4.78	27.74	-	-	

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]
					Ant1	Ant2	Summed						
					5190	38	SDM						
5230	46	SDM	AVG	15.00	14.90	17.96	-	-	2.92	20.88	23.01	-2.13	
5270	54	CDD	AVG	18.98	18.91	21.96	23.98	-2.02	5.88	27.84	30.00	-2.16	
5310	62	CDD	AVG	13.46	13.38	16.43	23.98	-7.55	5.88	22.31	30.00	-7.69	
5510	102	CDD	AVG	13.20	13.15	16.19	23.98	-7.79	5.22	21.41	30.00	-8.59	
5550	110	CDD	AVG	18.12	18.24	21.19	23.98	-2.79	5.22	26.41	30.00	-3.59	
5630	126	CDD	AVG	18.92	18.78	21.86	23.98	-2.12	5.22	27.08	30.00	-2.92	
5670	134	CDD	AVG	15.60	15.57	18.60	23.98	-5.38	5.22	23.82	30.00	-6.18	
5710	142	CDD	AVG	18.96	18.88	21.93	23.98	-2.05	5.22	27.15	30.00	-2.85	
5755	151	CDD	AVG	20.00	19.96	22.99	30.00	-7.01	4.78	27.77	-	-	
5795	159	CDD	AVG	19.96	19.98	22.98	30.00	-7.02	4.78	27.76	-	-	

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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	13.23	13.24	16.25	23.98	-7.73	5.88	22.13	30.00	-7.87	
5530	106	CDD	AVG	14.94	15.00	17.98	23.98	-6.00	5.22	23.20	30.00	-6.80	
5690	138	CDD	AVG	19.97	19.95	22.97	23.98	-1.01	5.22	28.19	30.00	-1.81	
5775	155	CDD	AVG	18.68	18.75	21.73	30.00	-8.27	4.78	26.51	-	-	

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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	13.00	12.99	16.01	23.98	-7.97	5.88	21.89	30.00	-8.11	
5530	106	CDD	AVG	14.21	14.17	17.20	23.98	-6.78	5.22	22.42	30.00	-7.58	
5690	138	CDD	AVG	19.95	19.80	22.89	23.98	-1.09	5.22	28.11	30.00	-1.89	
5775	155	CDD	AVG	17.73	17.54	20.65	30.00	-9.35	4.78	25.43	-	-	

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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	12.37	12.41	15.40	23.98	-8.58	5.88	21.28	30.00	-8.72	
5530	106	CDD	AVG	14.10	14.11	17.12	23.98	-6.86	5.22	22.34	30.00	-7.66	
5690	138	CDD	AVG	19.96	19.94	22.96	23.98	-1.02	5.22	28.18	30.00	-1.82	
5775	155	CDD	AVG	17.45	17.23	20.35	30.00	-9.65	4.78	25.13	-	-	

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

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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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	12.95	12.97	15.97	23.98	-8.01	5.88	21.85	30.00	-8.15	
5530	106	CDD	AVG	15.18	14.99	18.10	23.98	-5.88	5.22	23.32	30.00	-6.68	
5690	138	CDD	AVG	19.72	19.72	22.73	23.98	-1.25	5.22	27.95	30.00	-2.05	
5775	155	CDD	AVG	17.68	17.72	20.71	30.00	-9.29	4.78	25.49	-	-	


Table 7-89. ISED 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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	11.90	11.91	14.92	23.98	-9.06	5.88	20.80	30.00	-9.20	
5530	106	CDD	AVG	13.99	14.16	17.09	23.98	-6.89	5.22	22.31	30.00	-7.69	
5690	138	CDD	AVG	19.81	19.89	22.86	23.98	-1.12	5.22	28.08	30.00	-1.92	
5775	155	CDD	AVG	16.86	16.78	19.83	30.00	-10.17	4.78	24.61	-	-	

Table 7-90. ISED 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]
					Ant1	Ant2	Summed						
					5210	42	SDM						
5290	58	CDD	AVG	10.94	10.94	13.95	23.98	-10.03	5.88	19.83	30.00	-10.17	
5530	106	CDD	AVG	13.58	13.72	16.66	23.98	-7.32	5.22	21.88	30.00	-8.12	
5690	138	CDD	AVG	20.00	19.73	22.88	23.98	-1.10	5.22	28.10	30.00	-1.90	
5775	155	CDD	AVG	16.90	16.97	19.95	30.00	-10.05	4.78	24.73	-	-	

Table 7-91. ISED 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 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 12.42 dBm for Antenna 1 and 12.41 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{CDD/SDM}$$


$$(12.42 \text{ dBm} + 12.41 \text{ dBm}) = (17.46 \text{ mW} + 17.42 \text{ mW}) = 34.88 \text{ mW} = 15.43 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 15.43 dBm with directional gain of 2.92 dBi.

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

$$15.43 \text{ dBm} + 2.92 \text{ dBi} = 18.35 \text{ dBm}$$

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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

Test Notes

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


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7.5.1 Ant1 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)	19.5/21.7 (MCS2)	9.17	11.0	-1.83
	5200	40	n (20MHz)	19.5/21.7 (MCS2)	10.28	11.0	-0.72
	5240	48	n (20MHz)	19.5/21.7 (MCS2)	10.41	11.0	-0.59
	5180	36	ax (SU) (20MHz)	24/25.8 (MCS2)	7.16	11.0	-3.84
	5200	40	ax (SU) (20MHz)	24/25.8 (MCS2)	8.64	11.0	-2.36
	5240	48	ax (SU) (20MHz)	24/25.8 (MCS2)	8.61	11.0	-2.39
	5190	38	n (40MHz)	40.5/45 (MCS2)	3.26	11.0	-7.74
	5230	46	n (40MHz)	40.5/45 (MCS2)	7.41	11.0	-3.59
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	1.28	11.0	-9.72
	5230	46	ax (SU) (40MHz)	49/51.6 (MCS2)	6.81	11.0	-4.19
Band 2A	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	-1.10	11.0	-12.10
	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	-3.80	11.0	-14.80
	5260	52	n (20MHz)	19.5/21.7 (MCS2)	9.94	11.0	-1.06
	5280	56	n (20MHz)	19.5/21.7 (MCS2)	10.07	11.0	-0.93
	5320	64	n (20MHz)	19.5/21.7 (MCS2)	9.46	11.0	-1.54
	5260	52	ax (SU) (20MHz)	24/25.8 (MCS2)	8.55	11.0	-2.46
	5280	56	ax (SU) (20MHz)	24/25.8 (MCS2)	9.00	11.0	-2.01
	5320	64	ax (SU) (20MHz)	24/25.8 (MCS2)	7.08	11.0	-3.92
	5270	54	n (40MHz)	40.5/45 (MCS2)	7.77	11.0	-3.23
	5310	62	n (40MHz)	40.5/45 (MCS2)	5.53	11.0	-5.47
Band 2C	5270	54	ax (SU) (40MHz)	49/51.6 (MCS2)	6.78	11.0	-4.22
	5310	62	ax (SU) (40MHz)	49/51.6 (MCS2)	3.51	11.0	-7.49
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	-0.79	11.0	-11.79
	5290	58	ax (SU) (80MHz)	102/108.1 (MCS2)	-2.91	11.0	-13.91
	5500	100	n (20MHz)	19.5/21.7 (MCS2)	10.29	11.0	-0.71
	5580	116	n (20MHz)	19.5/21.7 (MCS2)	10.43	11.0	-0.57
	5700	140	n (20MHz)	19.5/21.7 (MCS2)	6.24	11.0	-4.76
	5720	144	n (20MHz)	19.5/21.7 (MCS2)	9.96	11.0	-1.04
	5500	100	ax (SU) (20MHz)	24/25.8 (MCS2)	7.79	11.0	-3.21
	5580	116	ax (SU) (20MHz)	24/25.8 (MCS2)	8.39	11.0	-2.61
	5700	140	ax (SU) (20MHz)	24/25.8 (MCS2)	7.77	11.0	-3.24
	5720	144	ax (SU) (20MHz)	24/25.8 (MCS2)	7.86	11.0	-3.14
	5510	102	n (40MHz)	40.5/45 (MCS2)	4.08	11.0	-6.92
	5550	110	n (40MHz)	40.5/45 (MCS2)	7.70	11.0	-3.31
	5590	118	n (40MHz)	40.5/45 (MCS2)	7.99	11.0	-3.01
	5670	134	n (40MHz)	40.5/45 (MCS2)	6.33	11.0	-4.67
	5710	142	n (40MHz)	40.5/45 (MCS2)	7.84	11.0	-3.16
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	2.38	11.0	-8.62
5550	110	ax (SU) (40MHz)	49/51.6 (MCS2)	6.26	11.0	-4.74	
5590	118	ax (SU) (40MHz)	49/51.6 (MCS2)	6.30	11.0	-4.71	
5670	134	ax (SU) (40MHz)	49/51.6 (MCS2)	4.54	11.0	-6.47	
5710	142	ax (SU) (40MHz)	49/51.6 (MCS2)	6.28	11.0	-4.73	
5530	106	ac (80MHz)	87.8/97.5 (MCS2)	1.10	11.0	-9.90	
5610	*122	ac (80MHz)	87.8/97.5 (MCS2)	4.94	11.0	-6.06	
5690	138	ac (80MHz)	87.8/97.5 (MCS2)	2.29	11.0	-8.71	
5530	106	ax (SU) (80MHz)	102/108.1 (MCS2)	-0.36	11.0	-11.36	
5610	*122	ax (SU) (80MHz)	102/108.1 (MCS2)	3.14	11.0	-7.86	
5690	138	ax (SU) (80MHz)	102/108.1 (MCS2)	1.21	11.0	-9.79	

Table 7-92. Bands 1, 2A, 2C Power Spectral Density Measurements Ant1 (Low Data Rate)


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

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 85 of 322

	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)	39/43.3 (MCS4)	9.69	11.0	-1.31
	5200	40	n (20MHz)	39/43.3 (MCS4)	10.54	11.0	-0.46
	5240	48	n (20MHz)	39/43.3 (MCS4)	10.27	11.0	-0.73
	5180	36	ax (SU) (20MHz)	49/51.6 (MCS4)	6.37	11.0	-4.63
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	9.10	11.0	-1.90
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	8.68	11.0	-2.32
	5190	38	n (40MHz)	81/90 (MCS4)	3.72	11.0	-7.28
	5230	46	n (40MHz)	81/90 (MCS4)	7.61	11.0	-3.39
	5190	38	ax (SU) (40MHz)	98/103.2 (MCS4)	0.61	11.0	-10.39
	5230	46	ax (SU) (40MHz)	98/103.2 (MCS4)	6.26	11.0	-4.74
Band 2A	5210	42	ac (80MHz)	175.5/195 (MCS4)	-1.01	11.0	-12.01
	5210	42	ax (SU) (80MHz)	204/216.2 (MCS4)	-3.89	11.0	-14.89
	5260	52	n (20MHz)	39/43.3 (MCS4)	10.32	11.0	-0.68
	5280	56	n (20MHz)	39/43.3 (MCS4)	10.34	11.0	-0.66
	5320	64	n (20MHz)	39/43.3 (MCS4)	9.87	11.0	-1.13
	5260	52	ax (SU) (20MHz)	49/51.6 (MCS4)	8.80	11.0	-2.20
	5280	56	ax (SU) (20MHz)	49/51.6 (MCS4)	8.99	11.0	-2.01
	5320	64	ax (SU) (20MHz)	49/51.6 (MCS4)	7.58	11.0	-3.42
	5270	54	n (40MHz)	81/90 (MCS4)	7.83	11.0	-3.17
	5310	62	n (40MHz)	81/90 (MCS4)	5.67	11.0	-5.33
Band 2C	5270	54	ax (SU) (40MHz)	98/103.2 (MCS4)	6.83	11.0	-4.17
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS4)	2.20	11.0	-8.80
	5290	58	ac (80MHz)	175.5/195 (MCS4)	-1.24	11.0	-12.24
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS4)	-3.77	11.0	-14.77
	5500	100	n (20MHz)	39/43.3 (MCS4)	7.87	11.0	-3.13
	5580	116	n (20MHz)	39/43.3 (MCS4)	10.46	11.0	-0.54
	5700	140	n (20MHz)	39/43.3 (MCS4)	5.10	11.0	-5.90
	5720	144	n (20MHz)	39/43.3 (MCS4)	9.93	11.0	-1.07
	5500	100	ax (SU) (20MHz)	49/51.6 (MCS4)	6.21	11.0	-4.79
	5580	116	ax (SU) (20MHz)	49/51.6 (MCS4)	8.39	11.0	-2.61
	5700	140	ax (SU) (20MHz)	49/51.6 (MCS4)	6.68	11.0	-4.32
	5720	144	ax (SU) (20MHz)	49/51.6 (MCS4)	8.10	11.0	-2.90
	5510	102	n (40MHz)	81/90 (MCS4)	4.14	11.0	-6.86
	5550	110	n (40MHz)	81/90 (MCS4)	7.81	11.0	-3.19
	5590	118	n (40MHz)	81/90 (MCS4)	8.17	11.0	-2.83
	5670	134	n (40MHz)	81/90 (MCS4)	6.55	11.0	-4.45
	5710	142	n (40MHz)	81/90 (MCS4)	7.83	11.0	-3.17
	5510	102	ax (SU) (40MHz)	98/103.2 (MCS4)	1.35	11.0	-9.66
5550	110	ax (SU) (40MHz)	98/103.2 (MCS4)	6.47	11.0	-4.53	
5590	118	ax (SU) (40MHz)	98/103.2 (MCS4)	6.67	11.0	-4.33	
5670	134	ax (SU) (40MHz)	98/103.2 (MCS4)	3.94	11.0	-7.06	
5710	142	ax (SU) (40MHz)	98/103.2 (MCS4)	6.24	11.0	-4.76	
5530	106	ac (80MHz)	175.5/195 (MCS4)	1.09	11.0	-9.91	
5610	*122	ac (80MHz)	175.5/195 (MCS4)	4.88	11.0	-6.12	
5690	138	ac (80MHz)	175.5/195 (MCS4)	3.05	11.0	-7.95	
5530	106	ax (SU) (80MHz)	204/216.2 (MCS4)	-2.05	11.0	-13.05	
5610	*122	ax (SU) (80MHz)	204/216.2 (MCS4)	3.44	11.0	-7.56	
5690	138	ax (SU) (80MHz)	204/216.2 (MCS4)	1.31	11.0	-9.69	

Table 7-93. Bands 1, 2A, 2C Power Spectral Density Measurements Ant1 (Mid Data Rate)

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

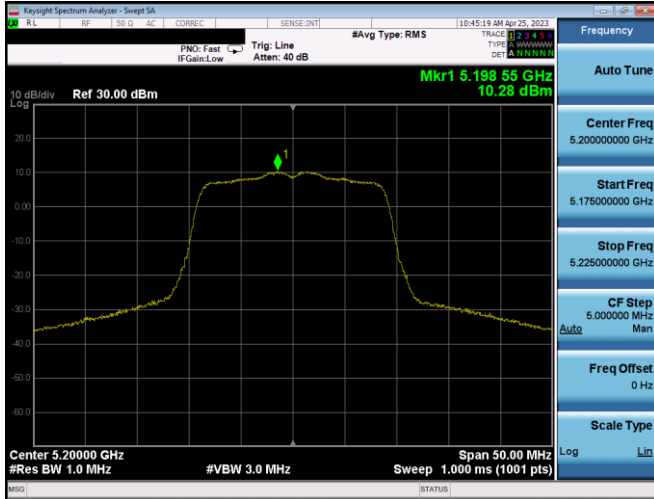
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 86 of 322

	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)	65/72.2 (MCS7)	6.02	11.0	-4.98
	5200	40	n (20MHz)	65/72.2 (MCS7)	9.24	11.0	-1.76
	5240	48	n (20MHz)	65/72.2 (MCS7)	9.31	11.0	-1.69
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	6.17	11.0	-4.83
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	9.29	11.0	-1.71
	5240	48	ax (SU) (20MHz)	135/143.4 (MCS11)	9.11	11.0	-1.89
	5190	38	n (40MHz)	135/150 (MCS7)	1.62	11.0	-9.38
	5230	46	n (40MHz)	135/150 (MCS7)	7.09	11.0	-3.91
	5190	38	ax (SU) (40MHz)	271/286.8 (MCS11)	-0.01	11.0	-11.01
	5230	46	ax (SU) (40MHz)	271/286.8 (MCS11)	6.33	11.0	-4.67
	5210	42	ac (80MHz)	351/390 (MCS8)	-2.97	11.0	-13.97
5210	42	ax (SU) (80MHz)	567/600.5 (MCS11)	-3.87	11.0	-14.87	
Band 2A	5260	52	n (20MHz)	65/72.2 (MCS7)	9.17	11.0	-1.83
	5280	56	n (20MHz)	65/72.2 (MCS7)	9.25	11.0	-1.75
	5320	64	n (20MHz)	65/72.2 (MCS7)	7.52	11.0	-3.48
	5260	52	ax (SU) (20MHz)	135/143.4 (MCS11)	9.04	11.0	-1.96
	5280	56	ax (SU) (20MHz)	135/143.4 (MCS11)	9.10	11.0	-1.90
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	7.11	11.0	-3.90
	5270	54	n (40MHz)	135/150 (MCS7)	7.06	11.0	-3.94
	5310	62	n (40MHz)	135/150 (MCS7)	2.38	11.0	-8.62
	5270	54	ax (SU) (40MHz)	271/286.8 (MCS11)	7.15	11.0	-3.85
	5310	62	ax (SU) (40MHz)	271/286.8 (MCS11)	1.66	11.0	-9.34
	5290	58	ac (80MHz)	351/390 (MCS8)	-2.41	11.0	-13.41
5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	-4.61	11.0	-15.61	
Band 2C	5500	100	n (20MHz)	65/72.2 (MCS7)	4.83	11.0	-6.17
	5580	116	n (20MHz)	65/72.2 (MCS7)	8.92	11.0	-2.08
	5700	140	n (20MHz)	65/72.2 (MCS7)	3.47	11.0	-7.54
	5720	144	n (20MHz)	65/72.2 (MCS7)	8.65	11.0	-2.35
	5500	100	ax (SU) (20MHz)	135/143.4 (MCS11)	4.31	11.0	-6.69
	5580	116	ax (SU) (20MHz)	135/143.4 (MCS11)	8.76	11.0	-2.24
	5700	140	ax (SU) (20MHz)	135/143.4 (MCS11)	5.22	11.0	-5.78
	5720	144	ax (SU) (20MHz)	135/143.4 (MCS11)	8.36	11.0	-2.64
	5510	102	n (40MHz)	135/150 (MCS7)	1.20	11.0	-9.80
	5550	110	n (40MHz)	135/150 (MCS7)	6.77	11.0	-4.23
	5590	118	n (40MHz)	135/150 (MCS7)	6.76	11.0	-4.24
	5670	134	n (40MHz)	135/150 (MCS7)	2.86	11.0	-8.14
	5710	142	n (40MHz)	135/150 (MCS7)	6.68	11.0	-4.32
	5510	102	ax (SU) (40MHz)	271/286.8 (MCS11)	0.22	11.0	-10.78
	5550	110	ax (SU) (40MHz)	271/286.8 (MCS11)	6.22	11.0	-4.78
	5590	118	ax (SU) (40MHz)	271/286.8 (MCS11)	6.64	11.0	-4.36
	5670	134	ax (SU) (40MHz)	271/286.8 (MCS11)	2.88	11.0	-8.13
	5710	142	ax (SU) (40MHz)	271/286.8 (MCS11)	6.25	11.0	-4.75
	5530	106	ac (80MHz)	351/390 (MCS8)	-1.55	11.0	-12.55
	5610	*122	ac (80MHz)	351/390 (MCS8)	2.71	11.0	-8.30
	5690	138	ac (80MHz)	351/390 (MCS8)	1.55	11.0	-9.46
5530	106	ax (SU) (80MHz)	567/600.5 (MCS11)	-2.49	11.0	-13.49	
5610	*122	ax (SU) (80MHz)	567/600.5 (MCS11)	2.34	11.0	-8.66	
5690	138	ax (SU) (80MHz)	567/600.5 (MCS11)	1.40	11.0	-9.60	

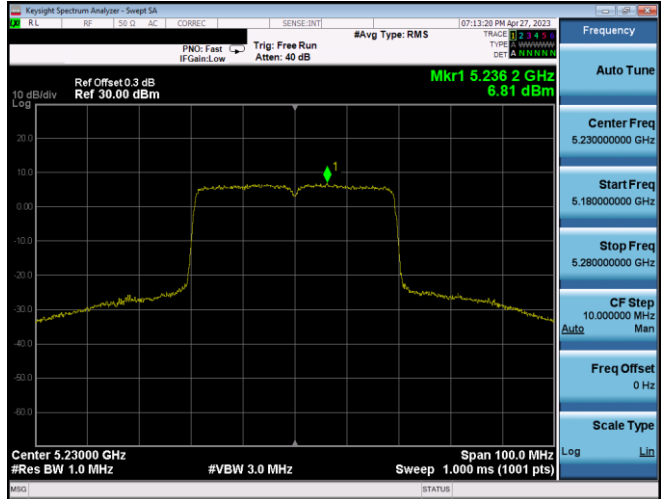
Table 7-94. Bands 1, 2A, 2C Power Spectral Density Measurements Ant1 (High Data Rate)

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

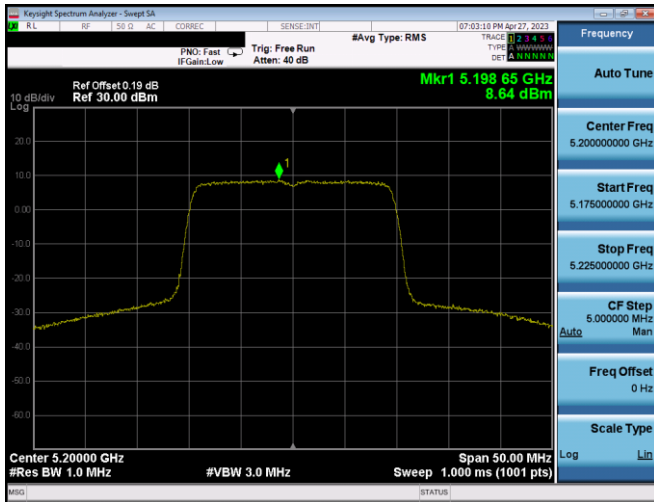
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 87 of 322



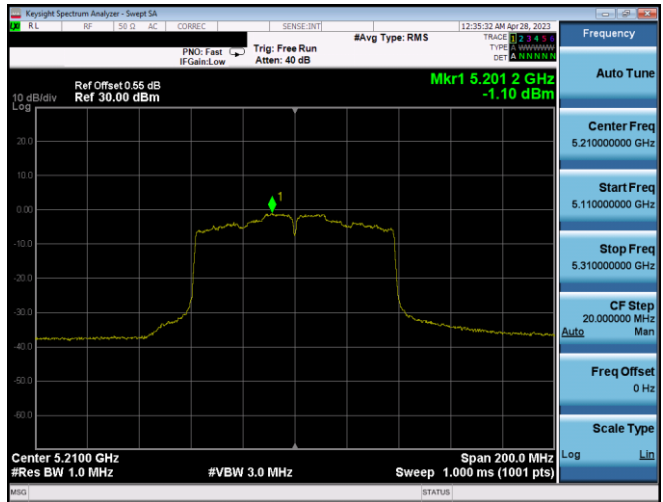
Plot 7-145. PSD Ant1 (20MHz BW 802.11n – Ch. 40, MCS2)



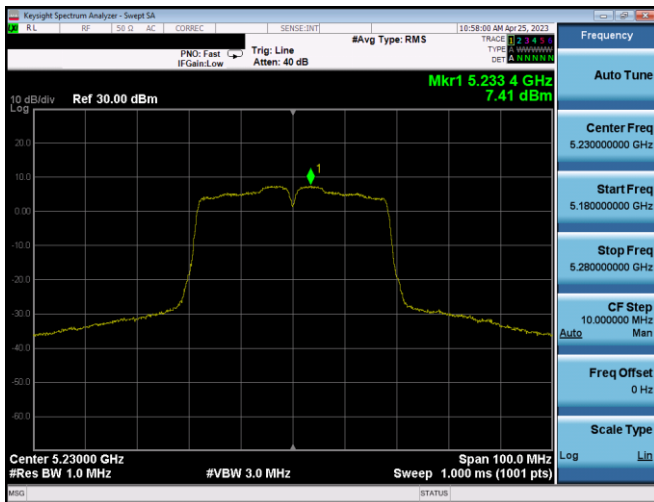
Plot 7-148. PSD Ant1 (40MHz BW 802.11ax(SU) – Ch. 46, MCS2)



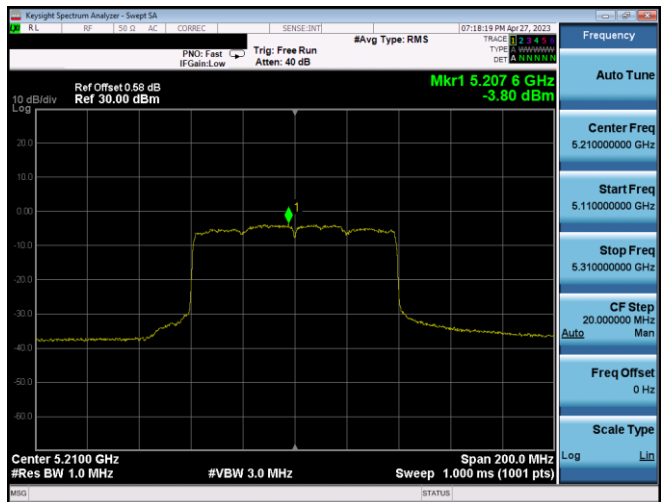
Plot 7-146. PSD Ant1 (20MHz BW 802.11ax(SU) – Ch. 40, MCS2)



Plot 7-149. PSD Ant1 (80MHz BW 802.11ac – Ch. 42, MCS2)

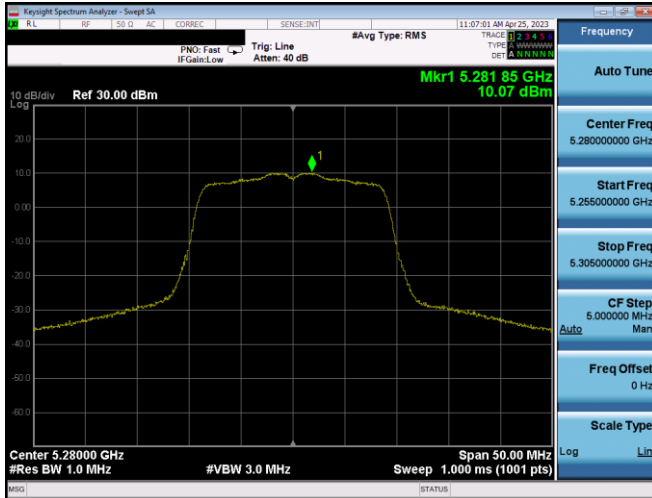


Plot 7-147. PSD Ant1 (40MHz BW 802.11n – Ch. 46, MCS2)

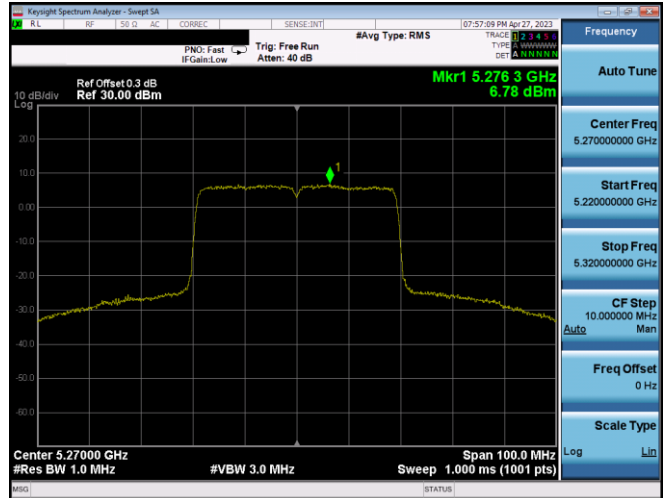


Plot 7-150. PSD Ant1 (80MHz BW 802.11ax(SU) – Ch. 42, MCS2)

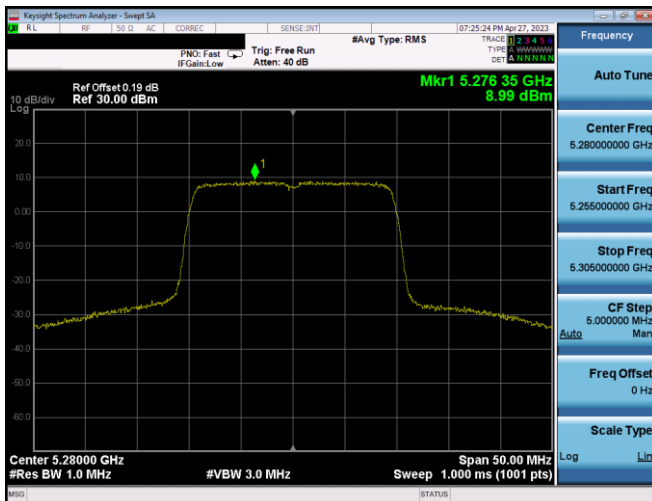
FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 88 of 322



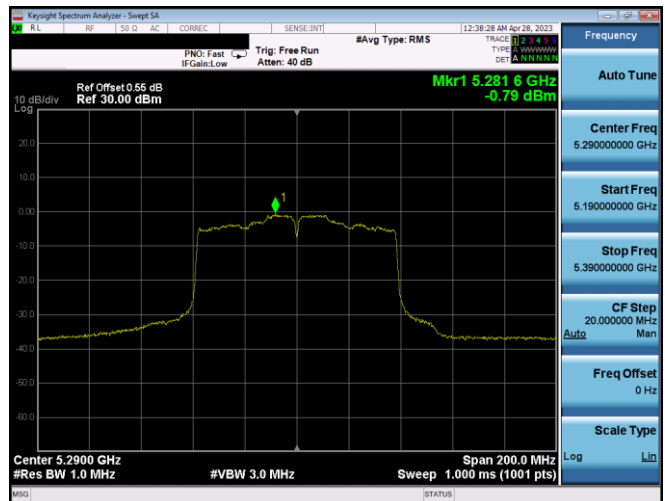
Plot 7-151. PSD Ant1 (20MHz BW 802.11n – Ch. 56, MCS2)



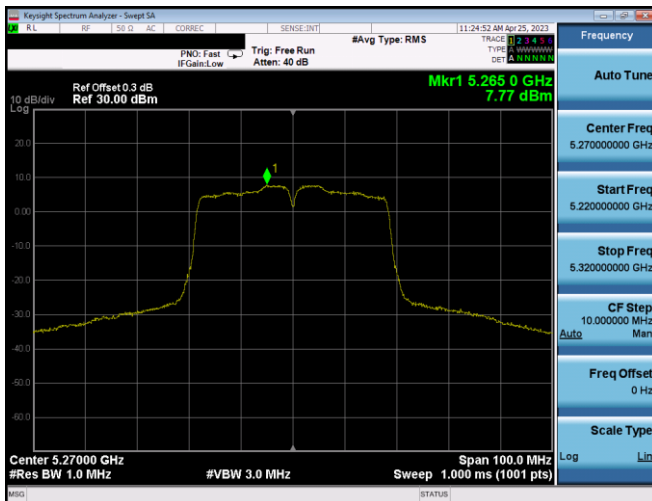
Plot 7-154. PSD Ant1 (40MHz BW 802.11ax(SU) – Ch. 54, MCS2)



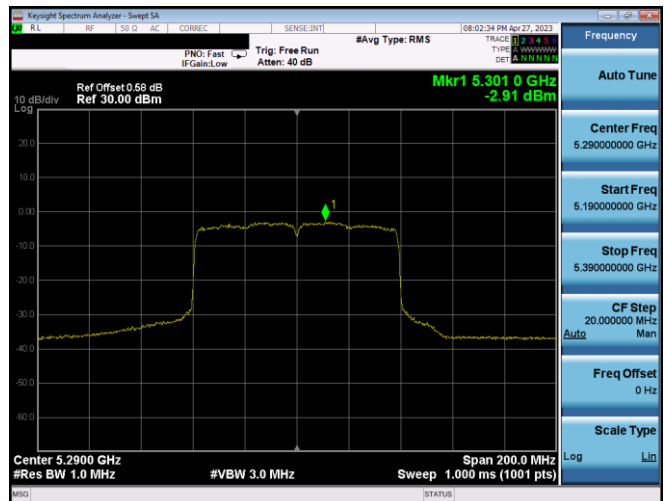
Plot 7-152. PSD Ant1 (20MHz BW 802.11ax(SU) – Ch. 56, MCS2)



Plot 7-155. PSD Ant1 (80MHz BW 802.11ac – Ch. 58, MCS2)



Plot 7-153. PSD Ant1 (40MHz BW 802.11n – Ch. 54, MCS2)



Plot 7-156. PSD Ant1 (80MHz BW 802.11ax(SU) – Ch. 58, MCS2)

FCC ID: BCGA2117 IC: 579C-A2117		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2302130007-07.BCG	Test Dates: 2/10/2023 - 5/4/2023	EUT Type: Head Mounted Device	Page 89 of 322