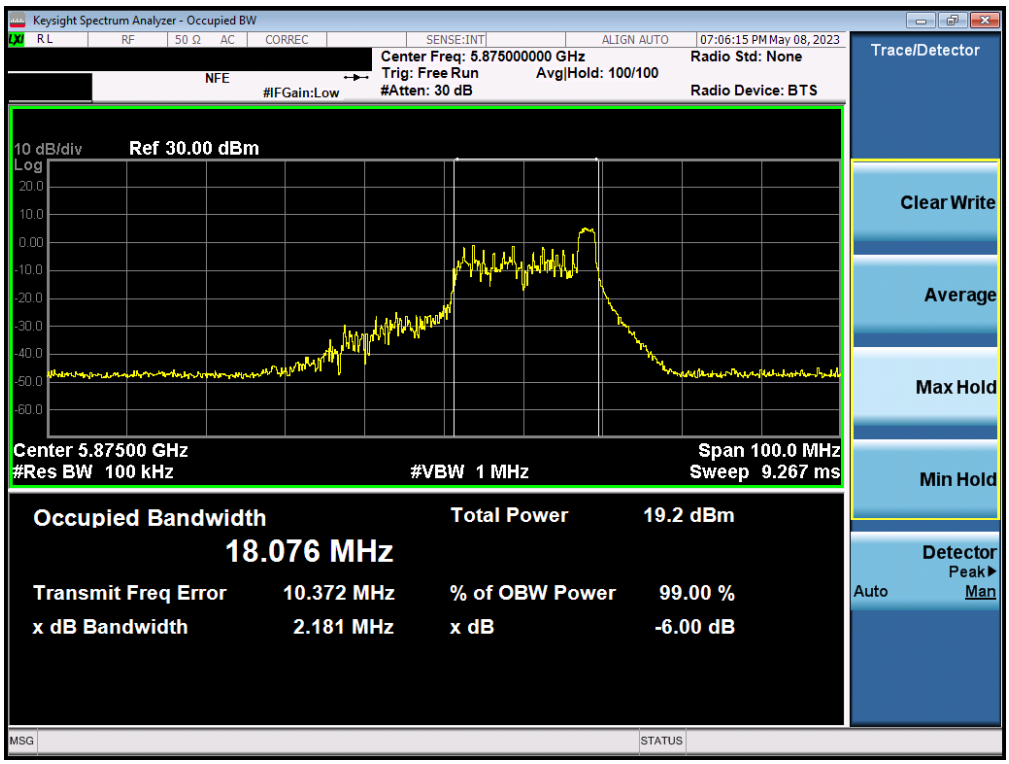
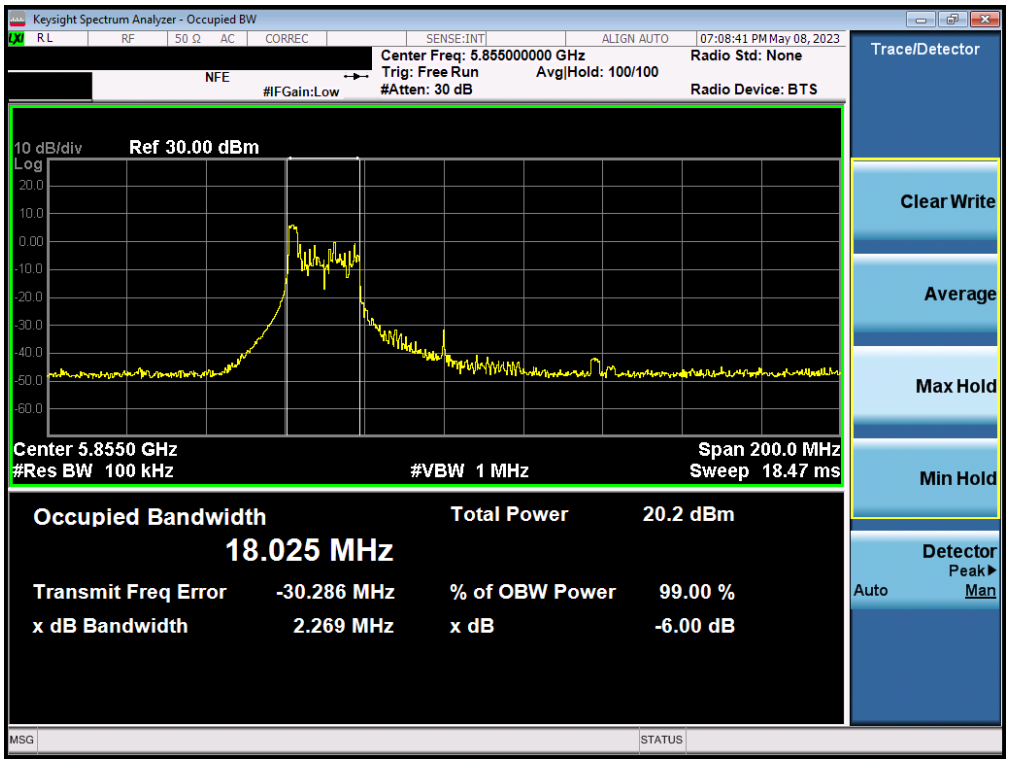
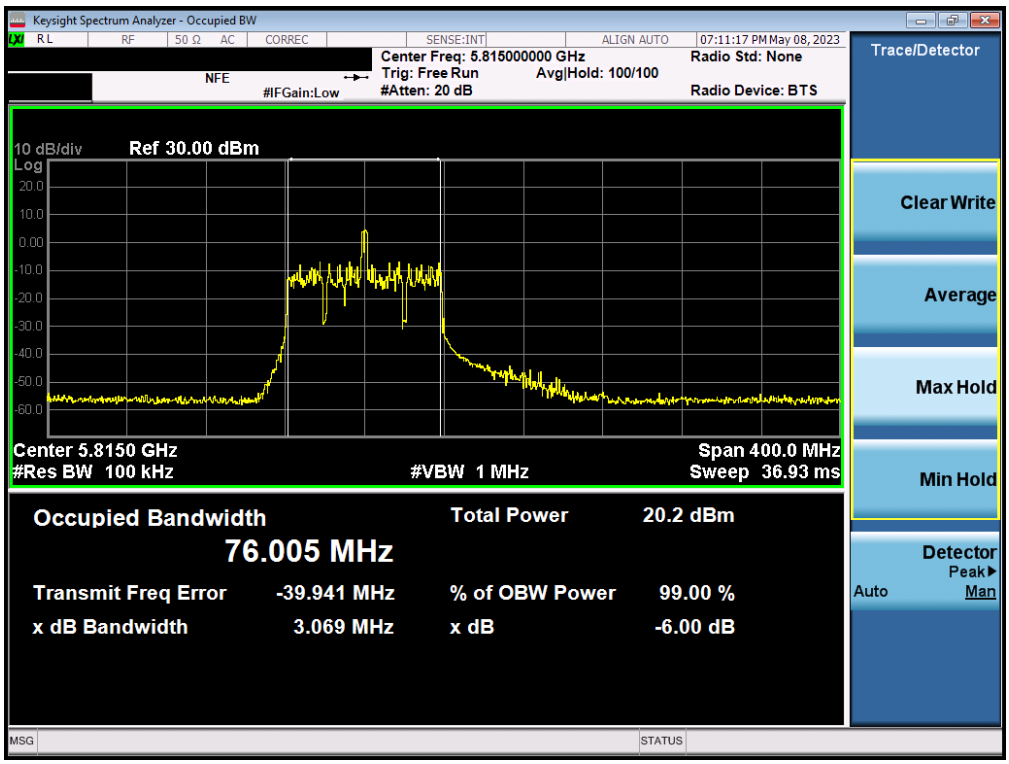


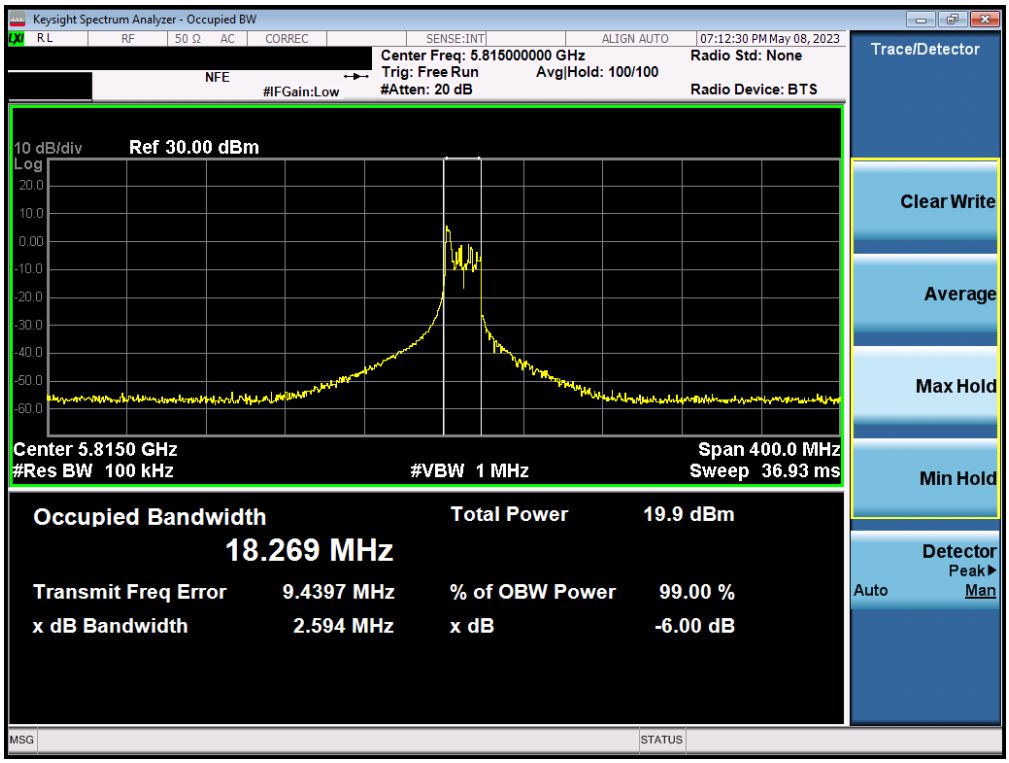
Plot 7-107. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 175)



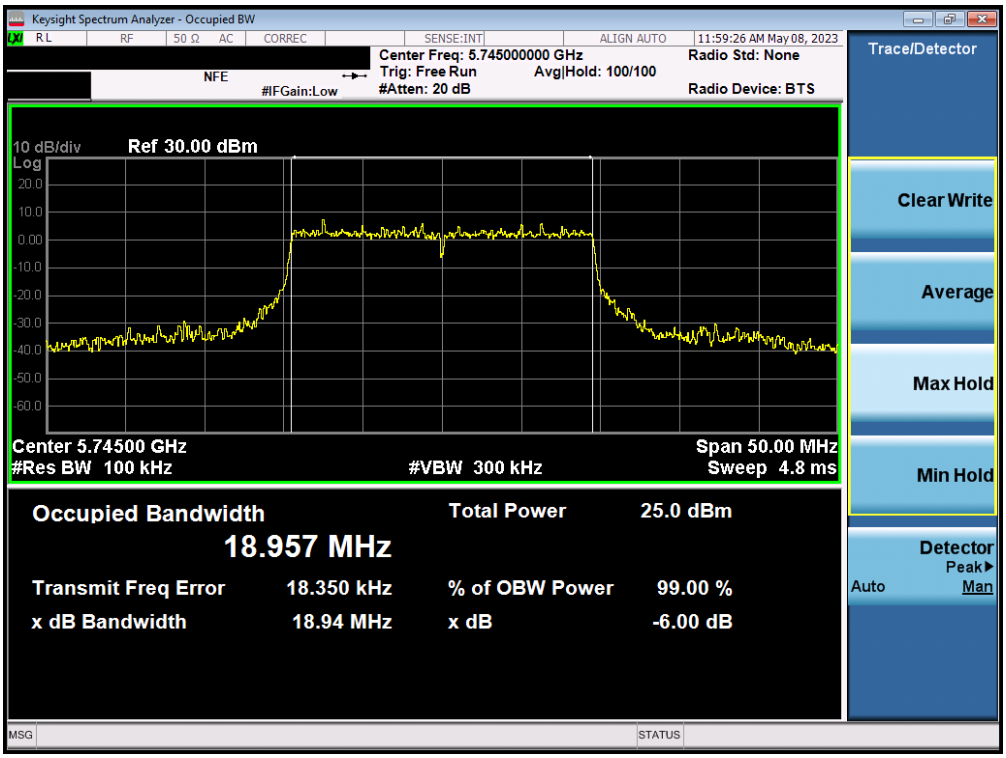
Plot 7-108. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)



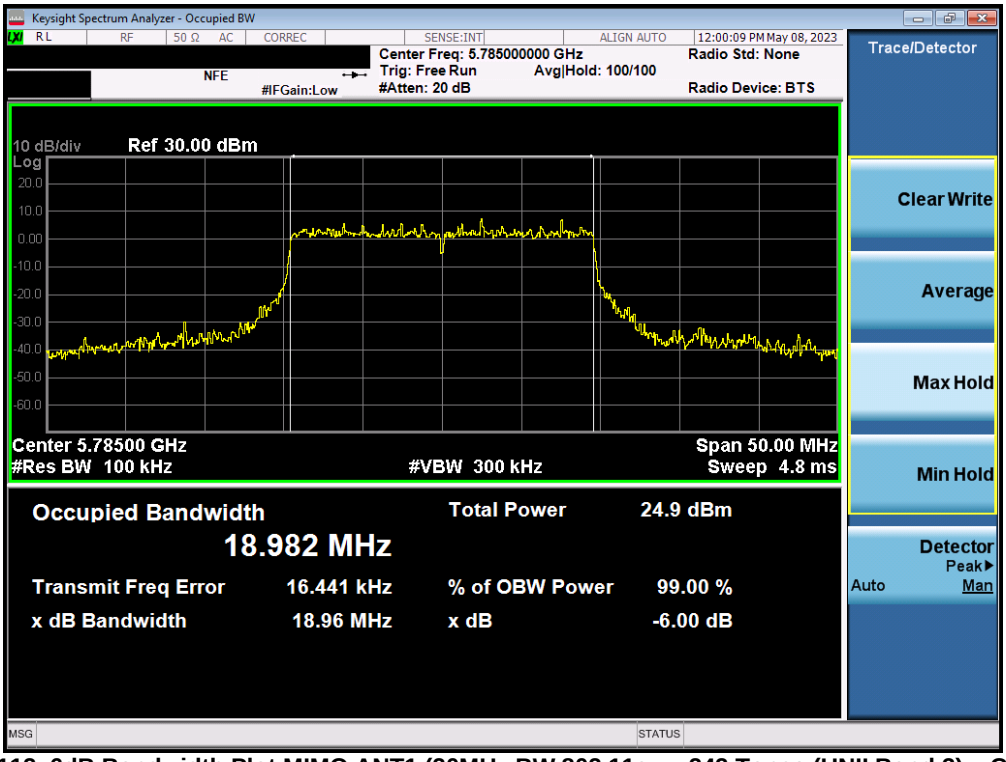
Plot 7-109. 6dB Bandwidth Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



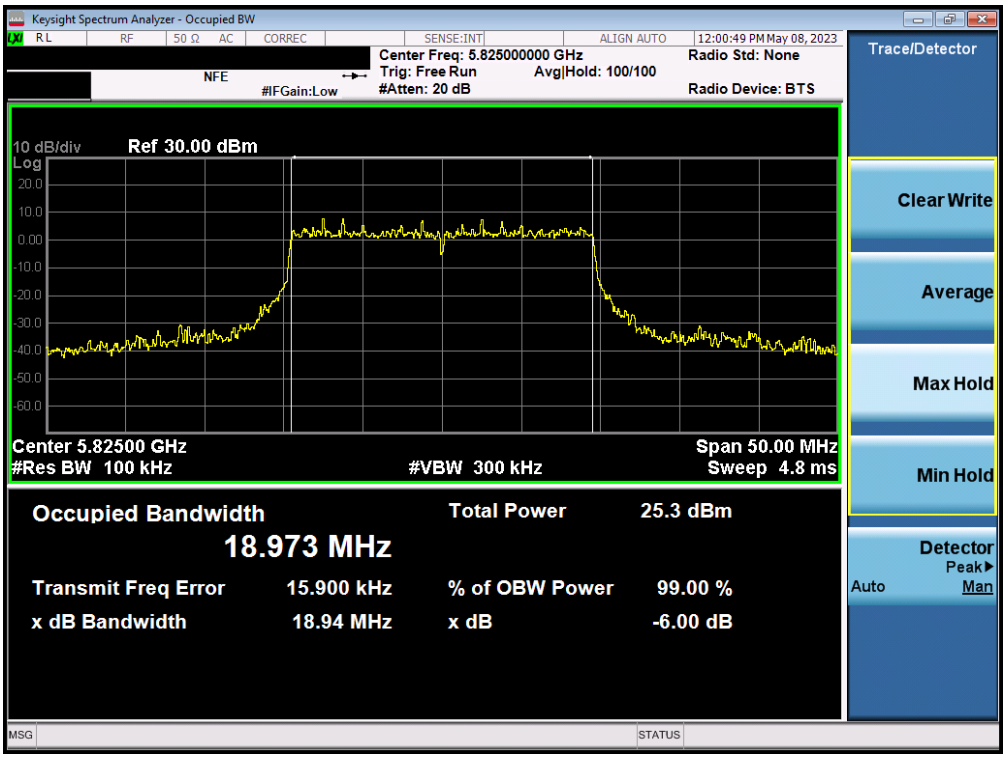
Plot 7-110. 6dB Bandwidth Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



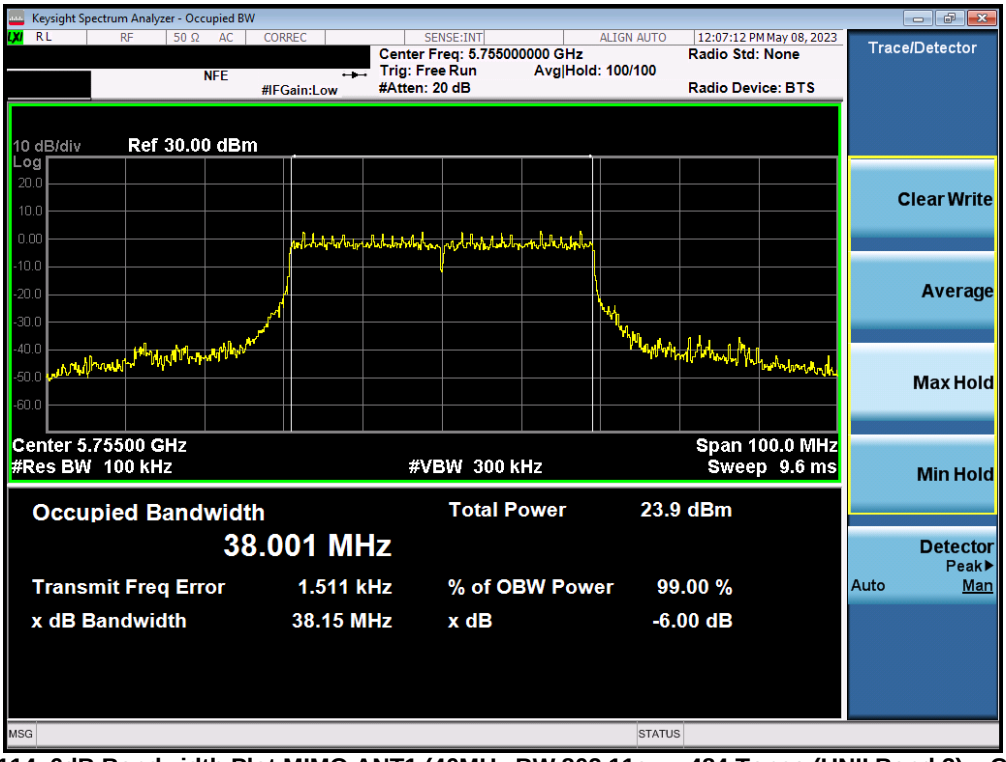
Plot 7-111. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)



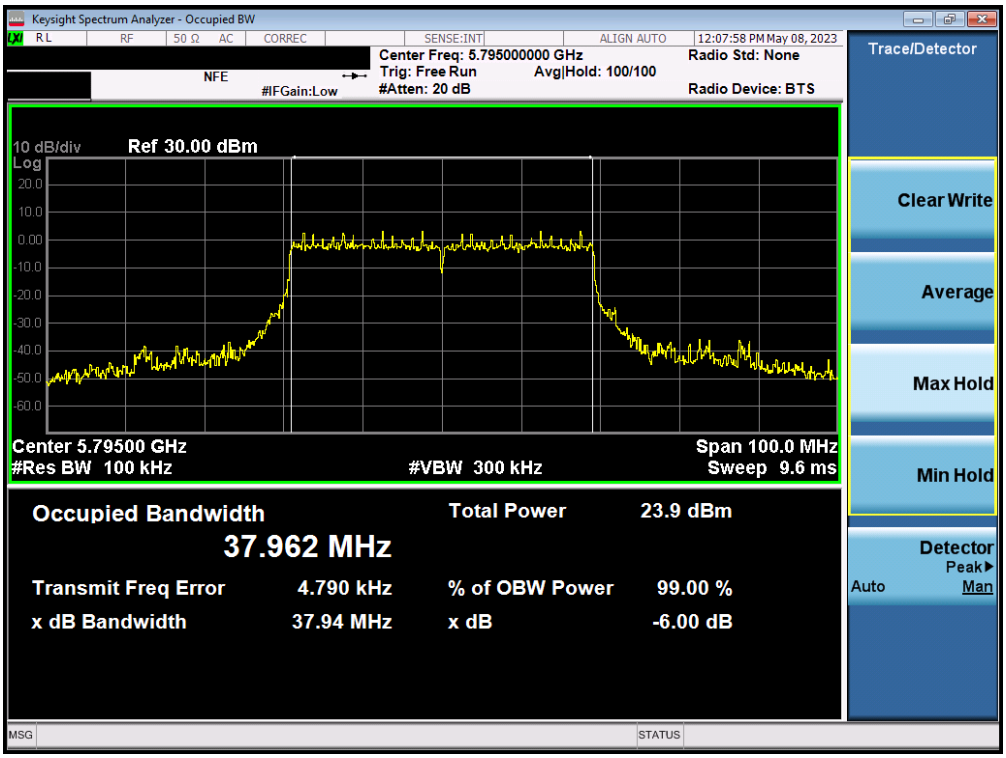
Plot 7-112. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)



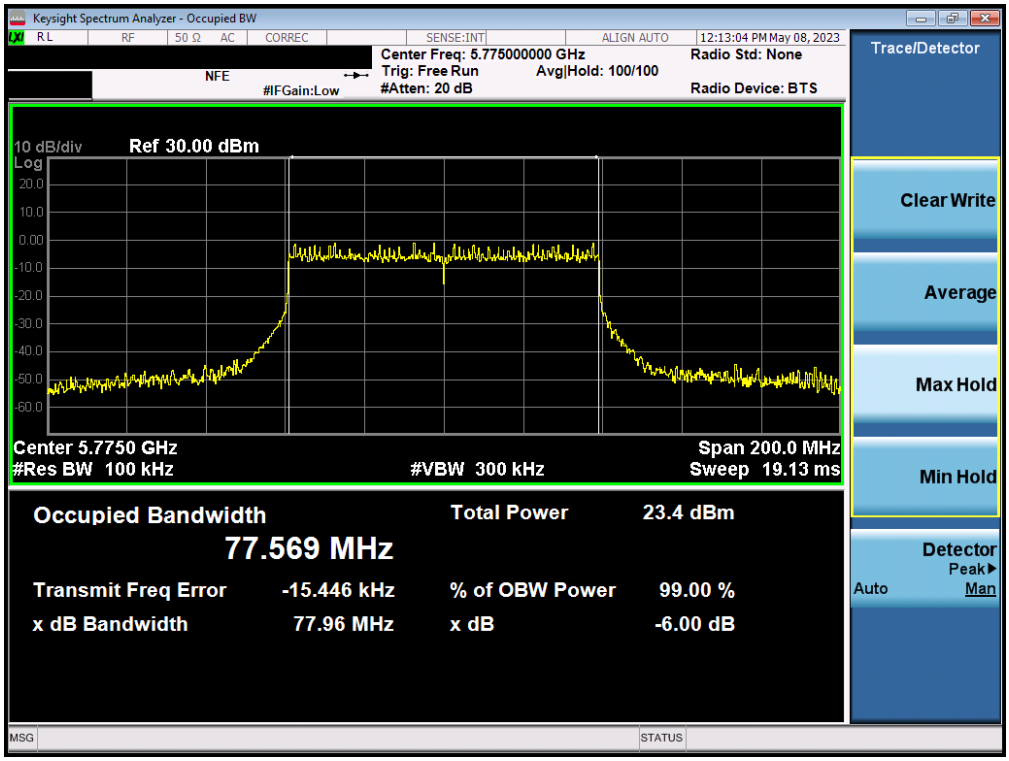
Plot 7-113. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)



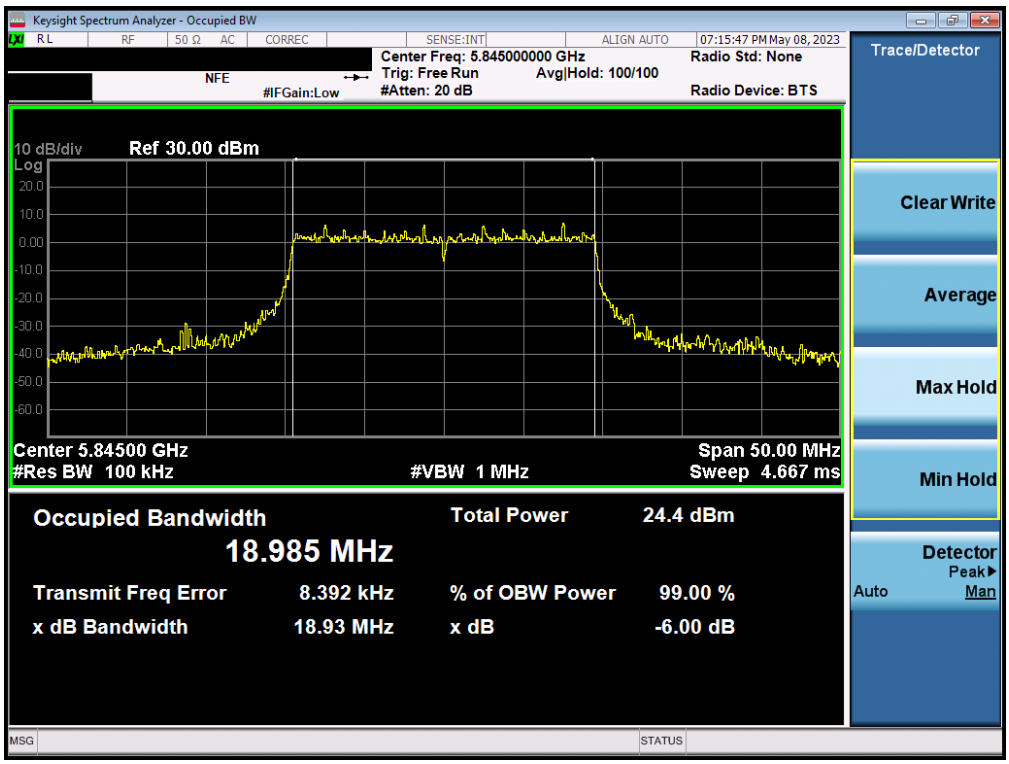
Plot 7-114. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)



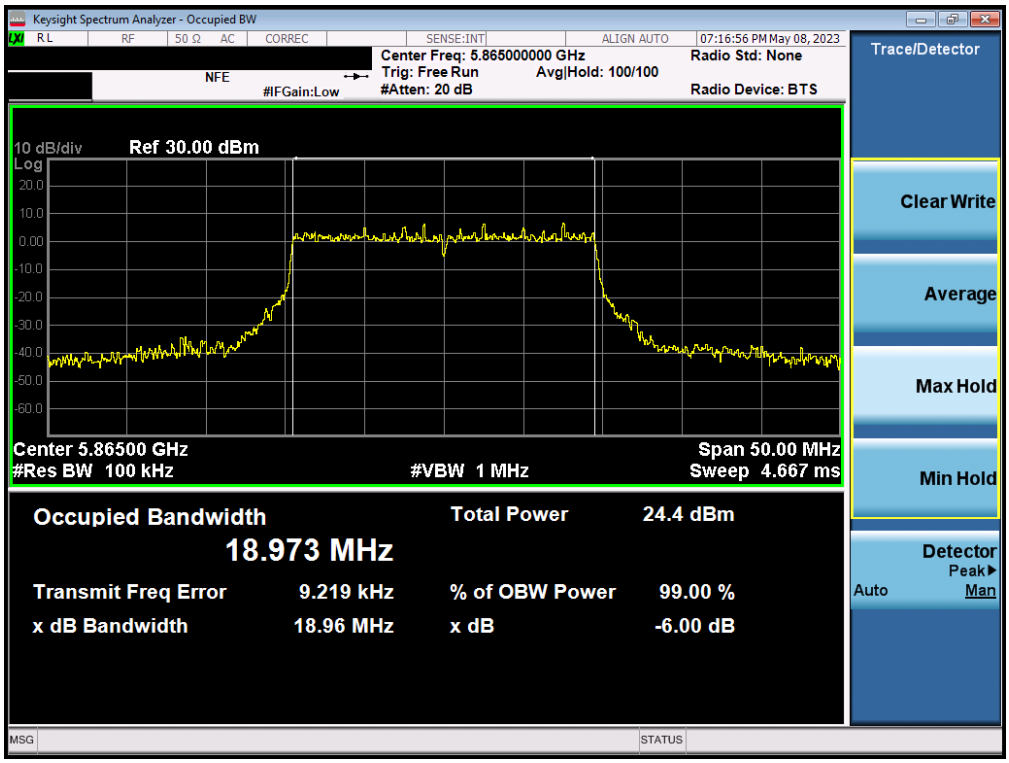
Plot 7-115. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



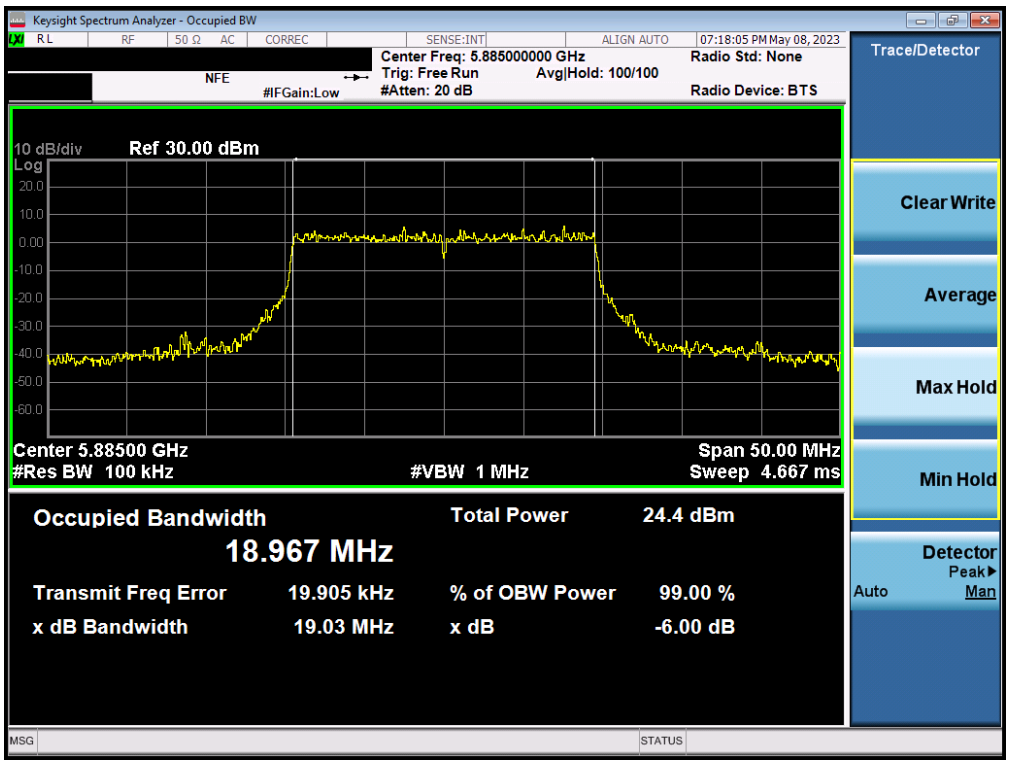
Plot 7-116. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)



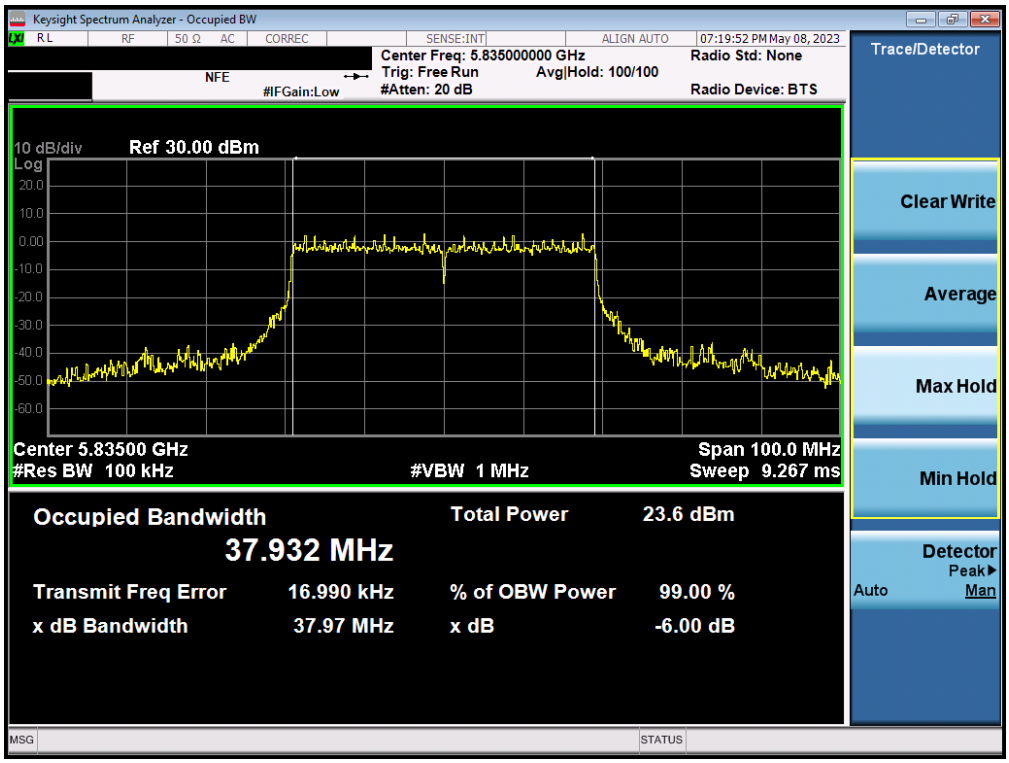
Plot 7-117. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3/4) – Ch. 169)



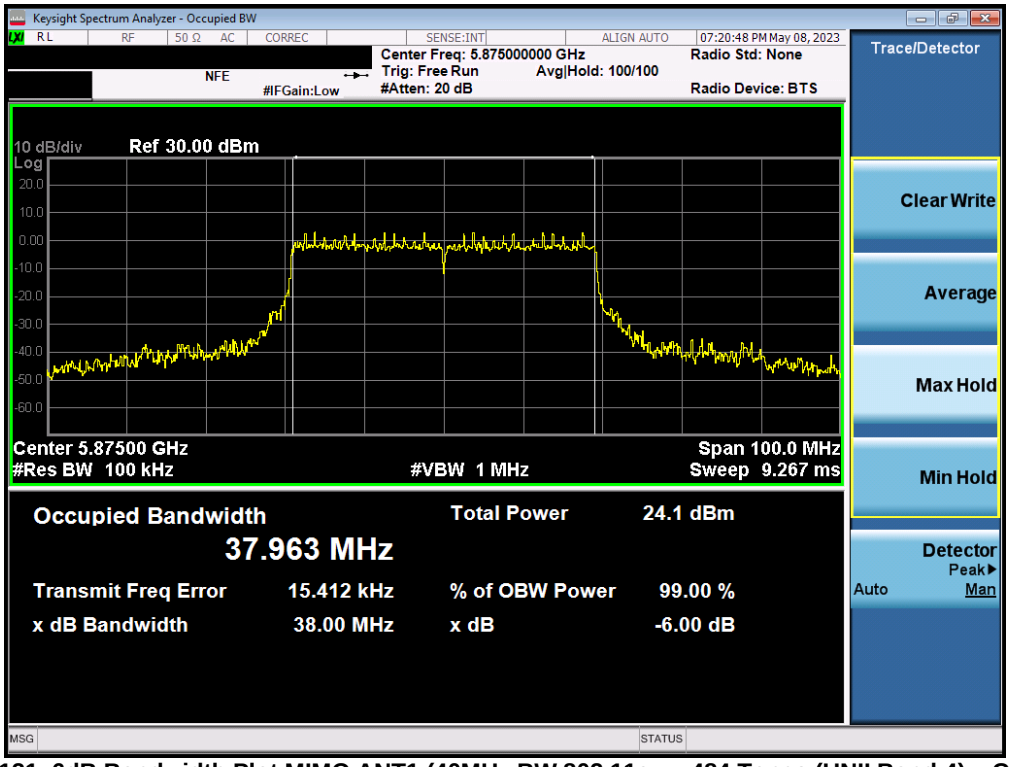
Plot 7-118. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)



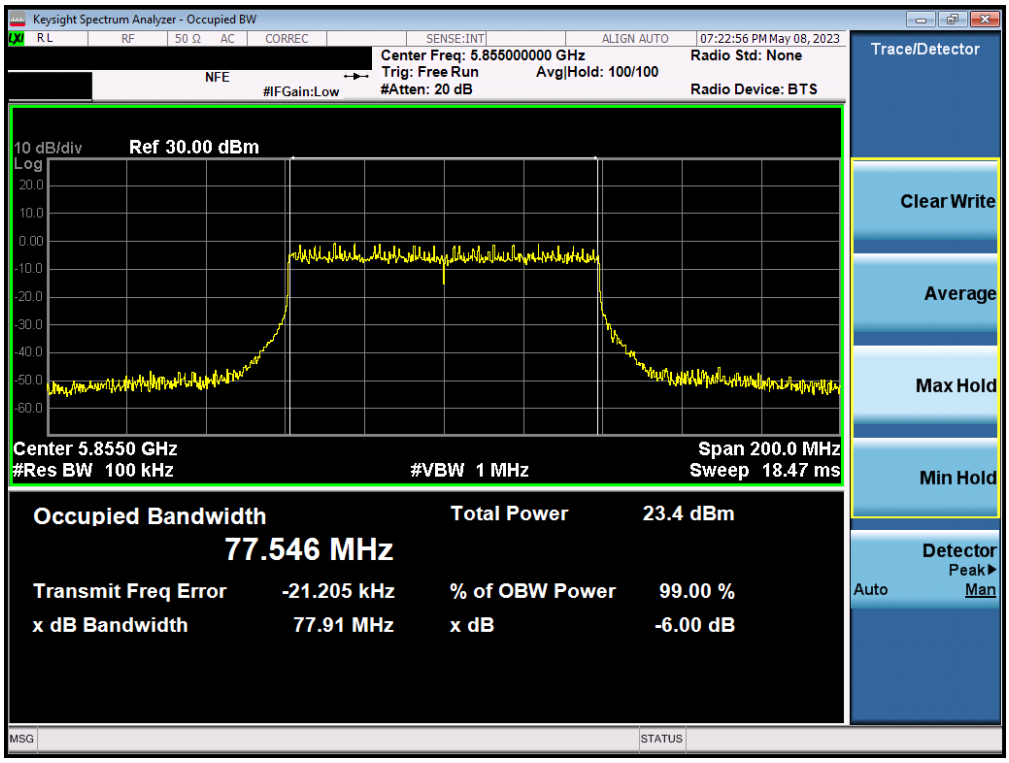
Plot 7-119. 6dB Bandwidth Plot MIMO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 177)



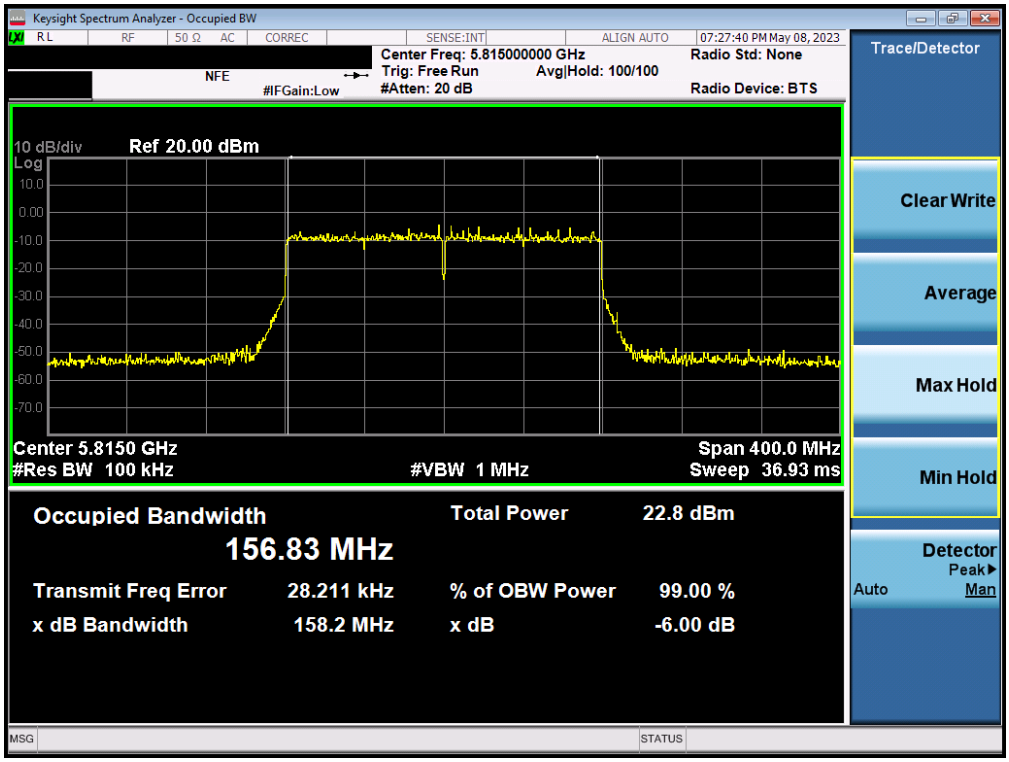
Plot 7-120. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)



Plot 7-121. 6dB Bandwidth Plot MIMO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 4) – Ch. 175)



Plot 7-122. 6dB Bandwidth Plot MIMO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-123. 6dB Bandwidth Plot MIMO ANT1 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 3/4) – Ch. 163)

7.3.2 MIMO Antenna-2 6dB Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	26T	MCS0	2.12
	5785	157	ax (20MHz)	26T	MCS0	2.12
	5825	165	ax (20MHz)	26T	MCS0	2.13
	5755	151	ax (40MHz)	26T	MCS0	2.14
	5795	159	ax (40MHz)	26T	MCS0	2.21
	5775	155	ax (80MHz)	26T	MCS0	2.87

Table 7-10. Band 3 Conducted 6dB Bandwidth Measurements MIMO ANT2 (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	2.14
Band 4	5865	173	ax (20MHz)	26T	MCS0	2.11
	5885	177	ax (20MHz)	26T	MCS0	2.14
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	2.16
Band 4	5875	175	ax (40MHz)	26T	MCS0	2.18
Band 3/4	5855	171	ax (80MHz)	26T	MCS0	2.26
	5815	163	ax (160MHz L)	26T	MCS0	3.00
	5815	163	ax (160MHz U)	26T	MCS0	2.95

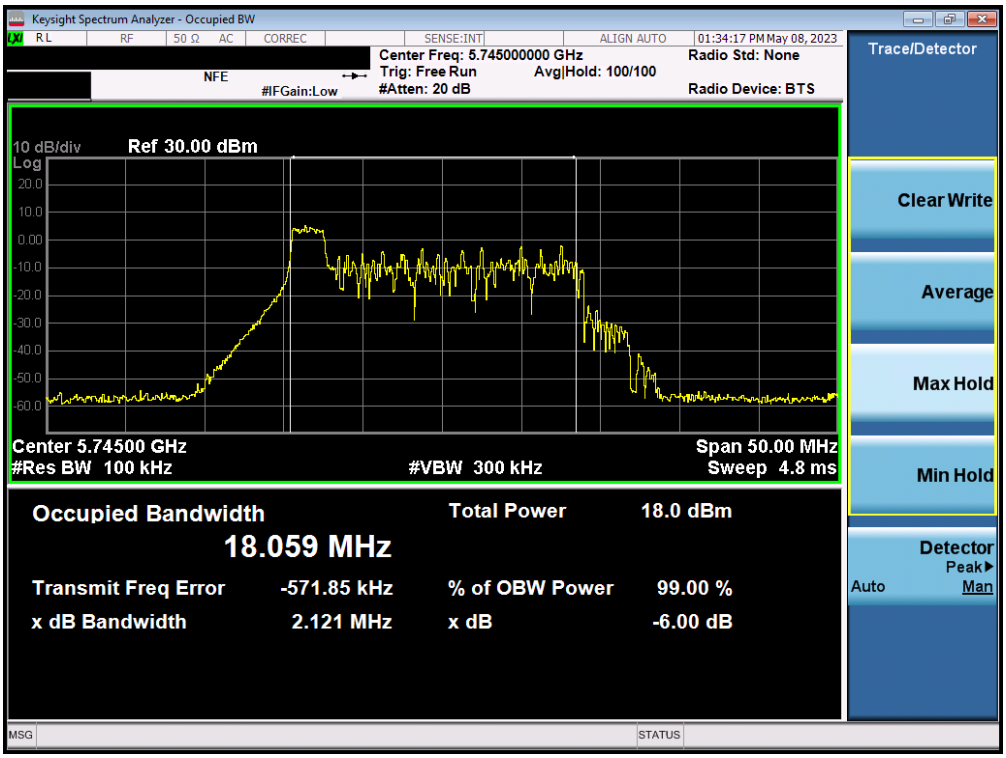
Table 7-11. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO ANT2 (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	242T	MCS0	19.11
	5785	157	ax (20MHz)	242T	MCS0	19.13
	5825	165	ax (20MHz)	242T	MCS0	19.12
	5755	151	ax (40MHz)	484T	MCS0	38.11
	5795	159	ax (40MHz)	484T	MCS0	38.12
	5775	155	ax (80MHz)	996T	MCS0	78.08

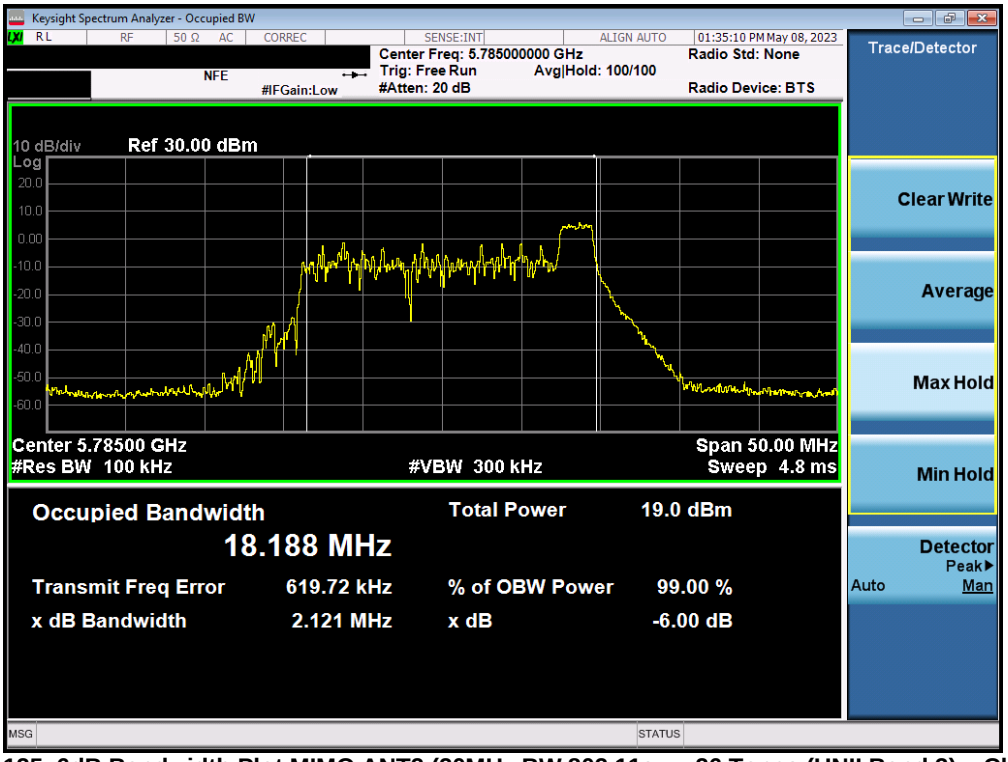
Table 7-12. Band 3 Conducted 6dB Bandwidth Measurements MIMO ANT2 (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	19.09
Band 4	5865	173	ax (20MHz)	242T	MCS0	19.09
	5885	177	ax (20MHz)	242T	MCS0	19.11
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	38.06
Band 4	5875	175	ax (40MHz)	484T	MCS0	38.08
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	77.95
	5815	163	ax (160MHz)	996T	MCS0	158.10

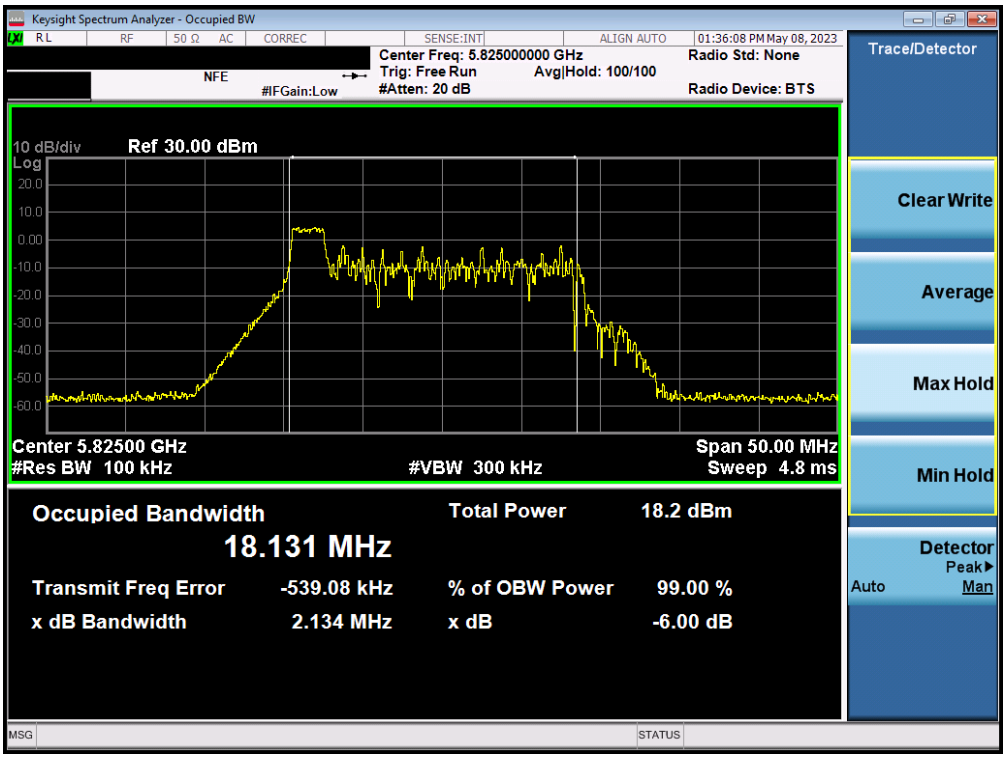
Table 7-13. Bands 3/4 Conducted 6dB Bandwidth Measurements MIMO ANT2 (Full Tones)



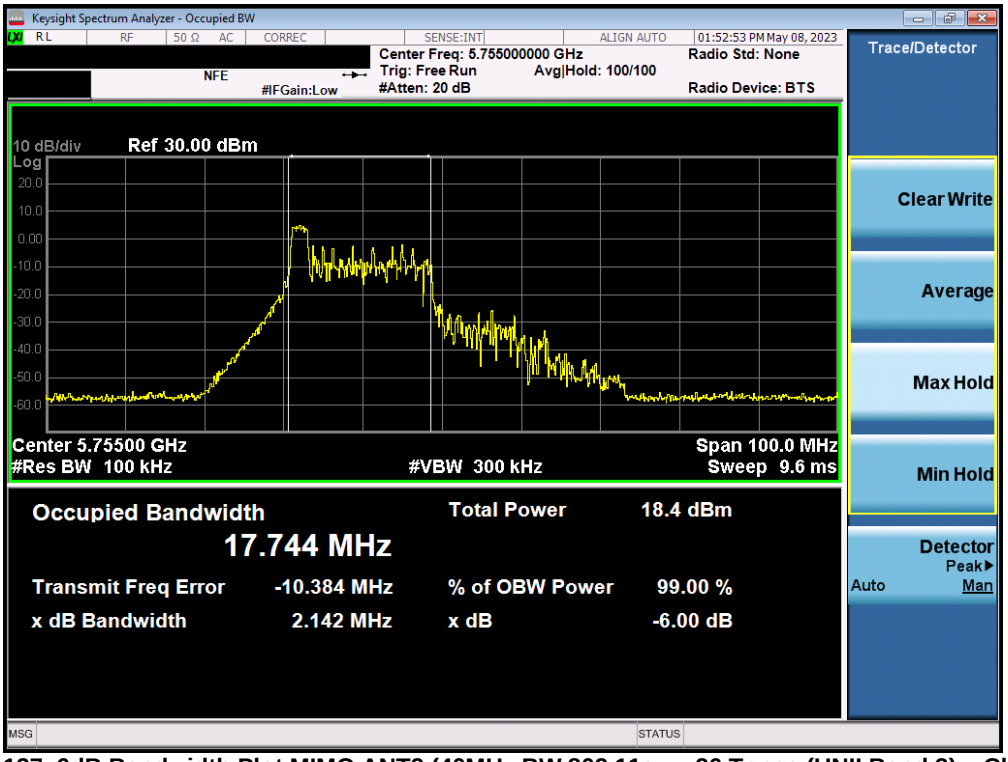
Plot 7-124. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



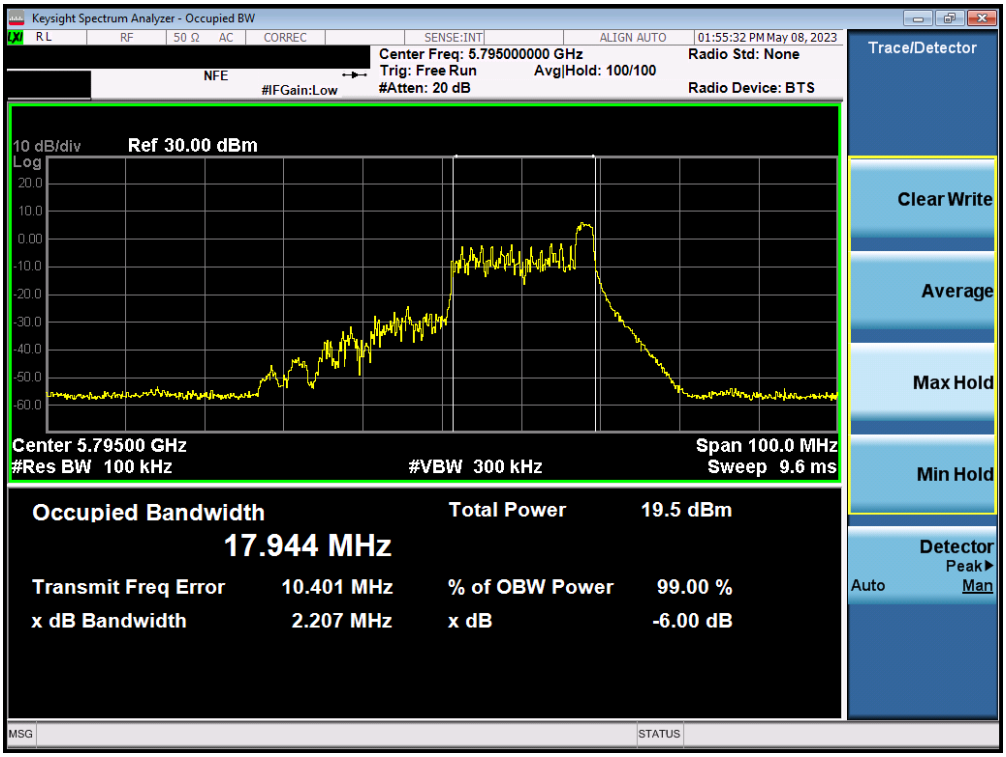
Plot 7-125. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



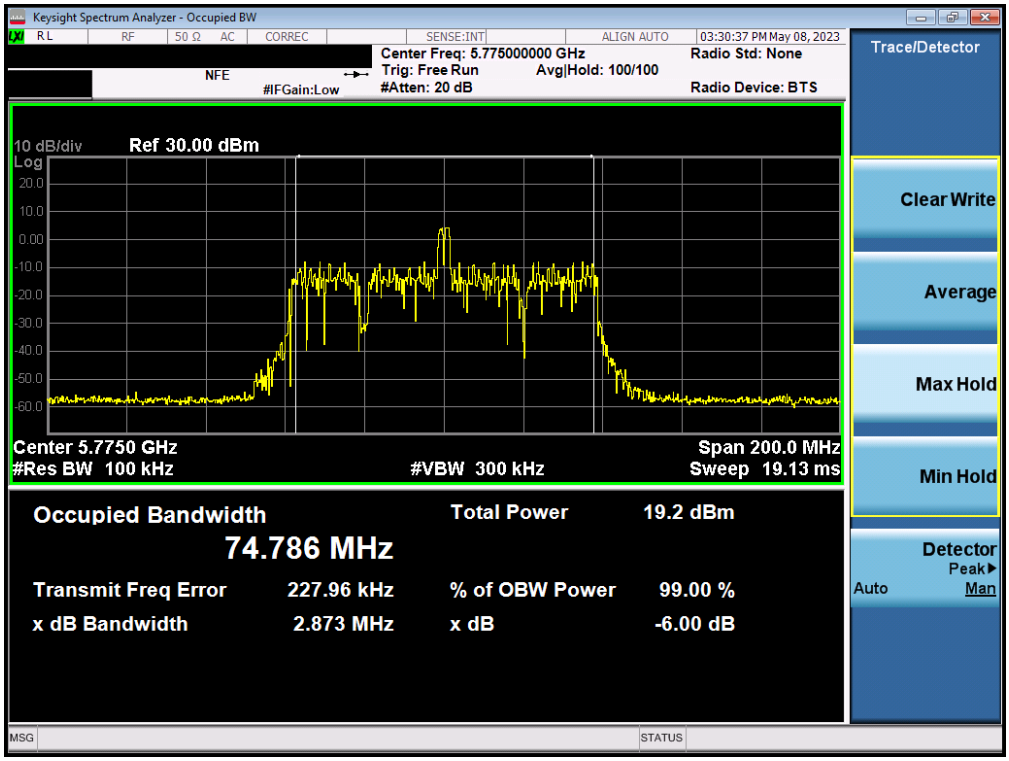
Plot 7-126. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



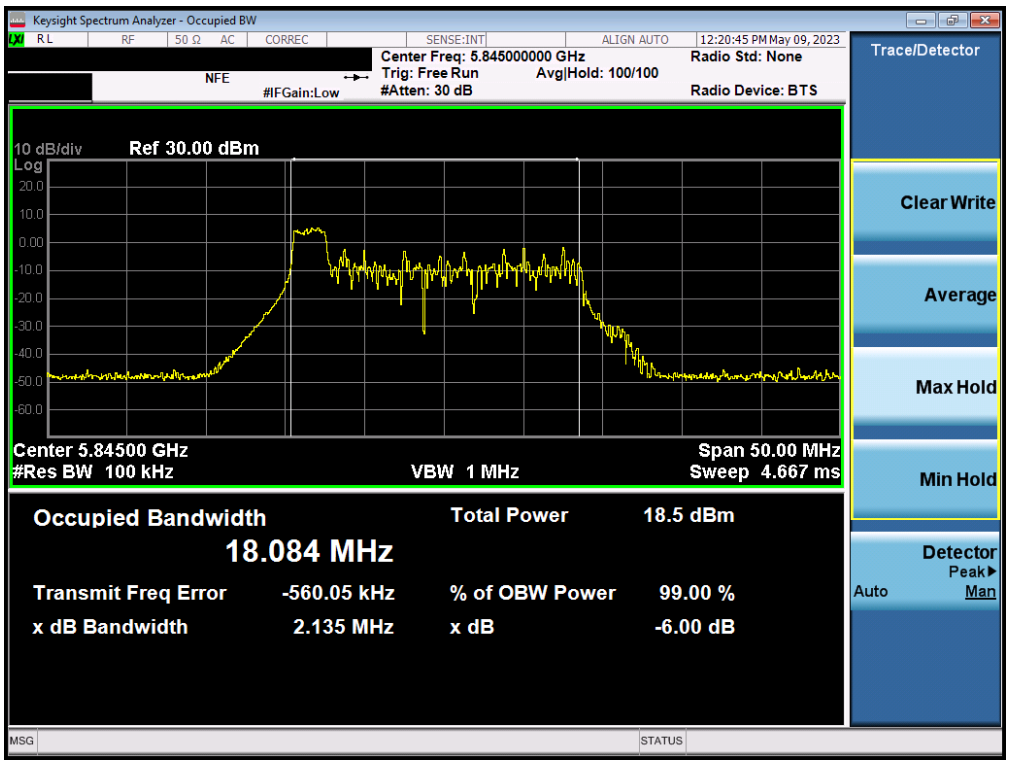
Plot 7-127. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



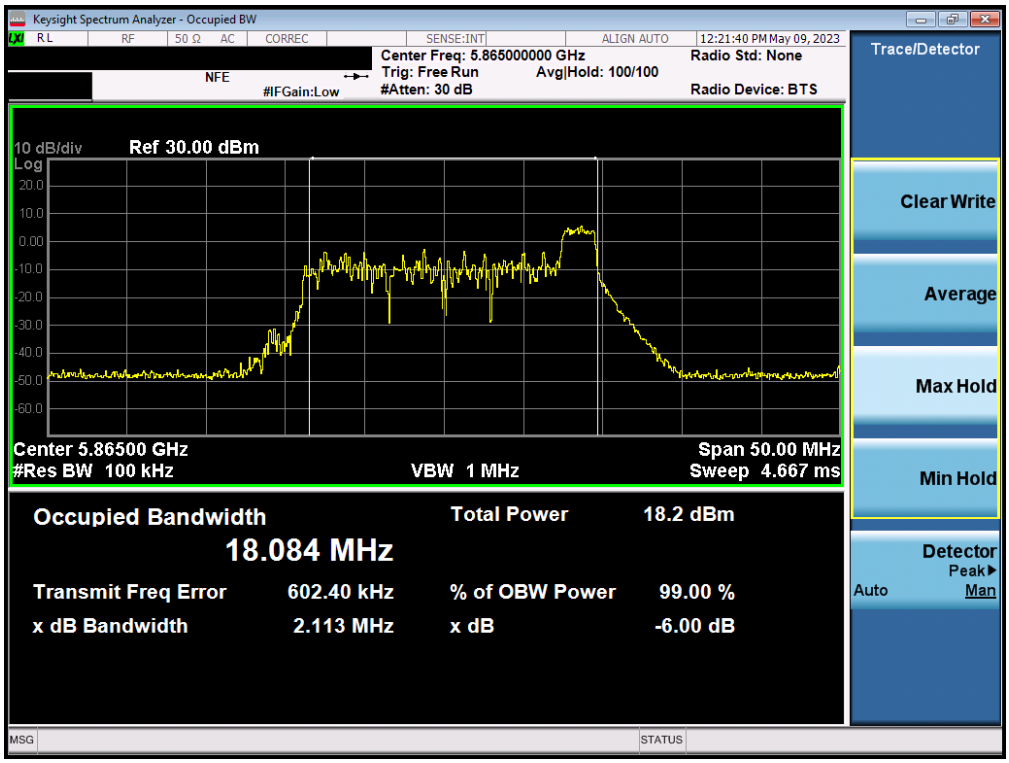
Plot 7-128. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



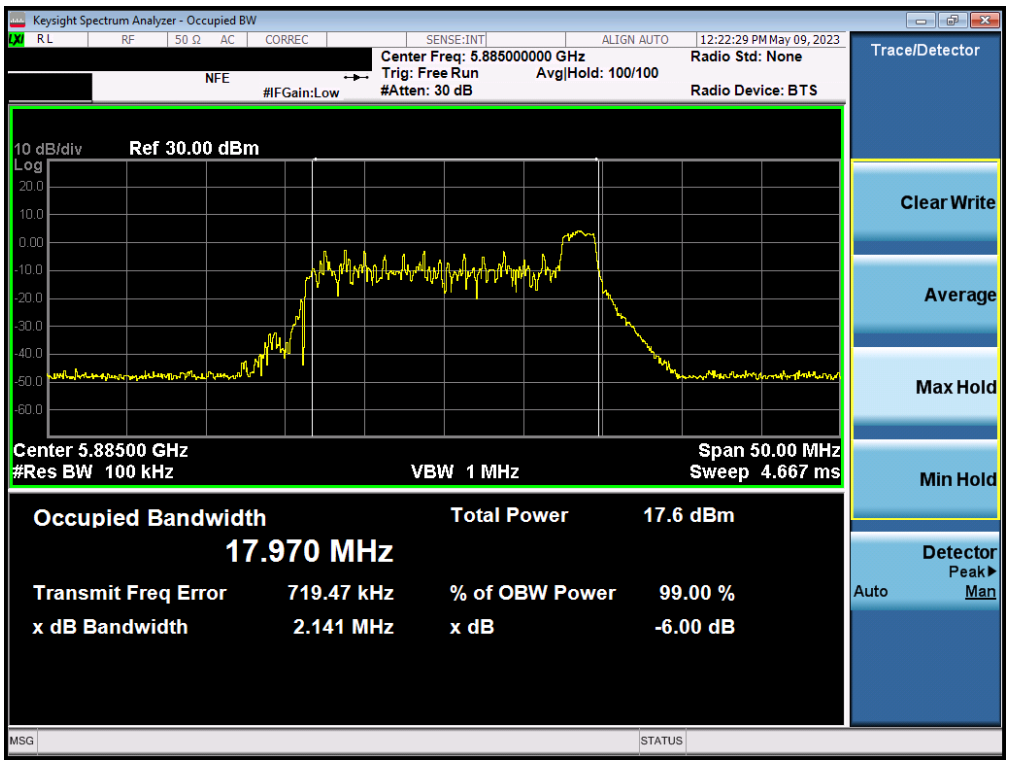
Plot 7-129. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UII Band 3) – Ch. 155)



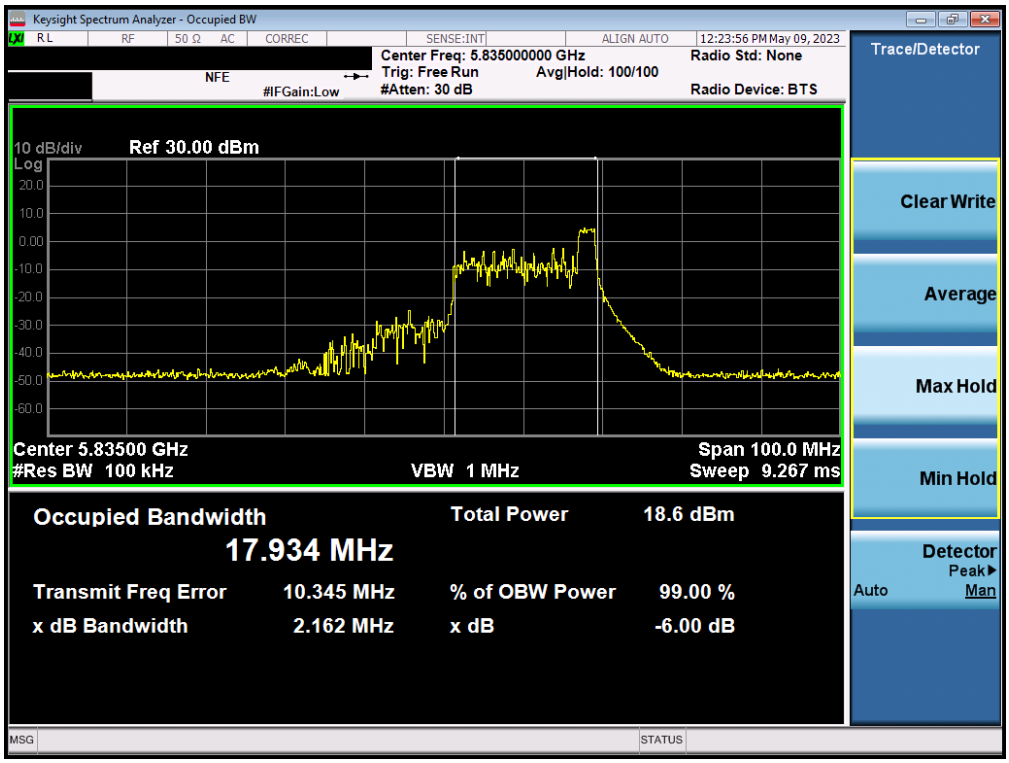
Plot 7-130. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 169)



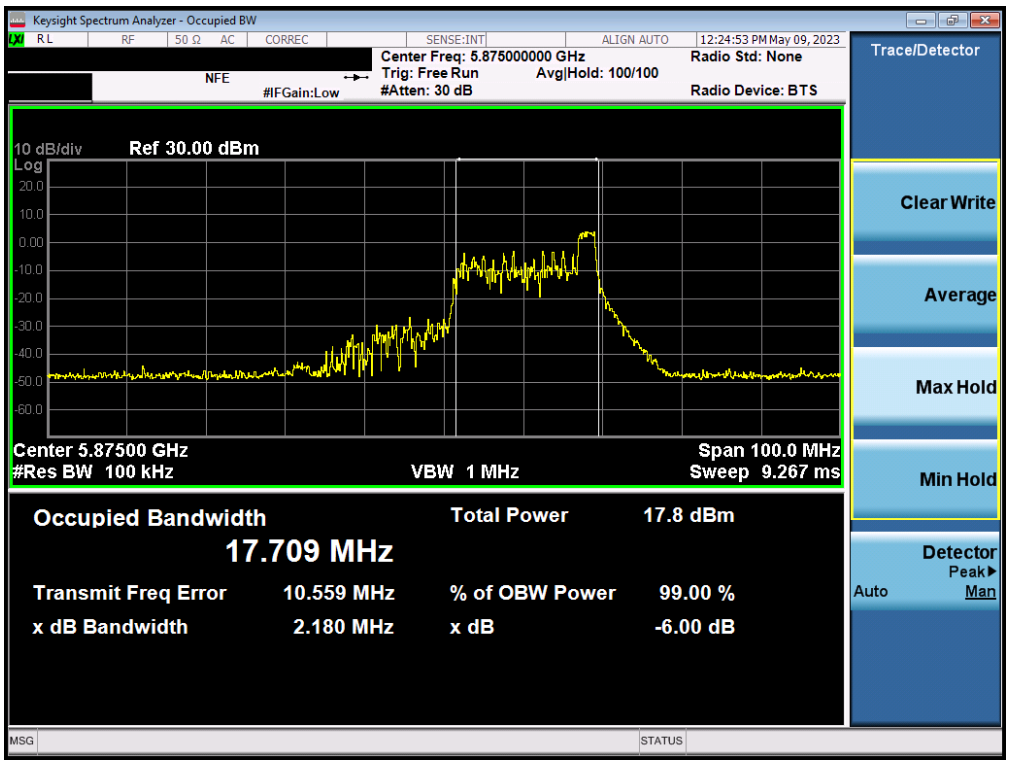
Plot 7-131. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)



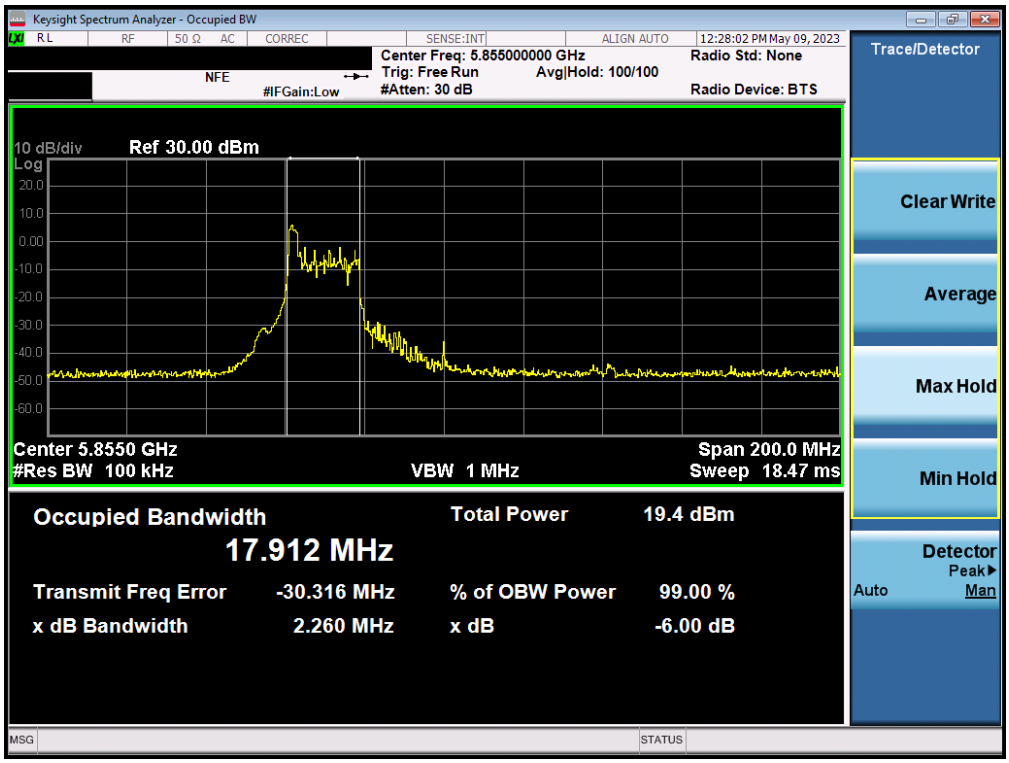
Plot 7-132. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 177)



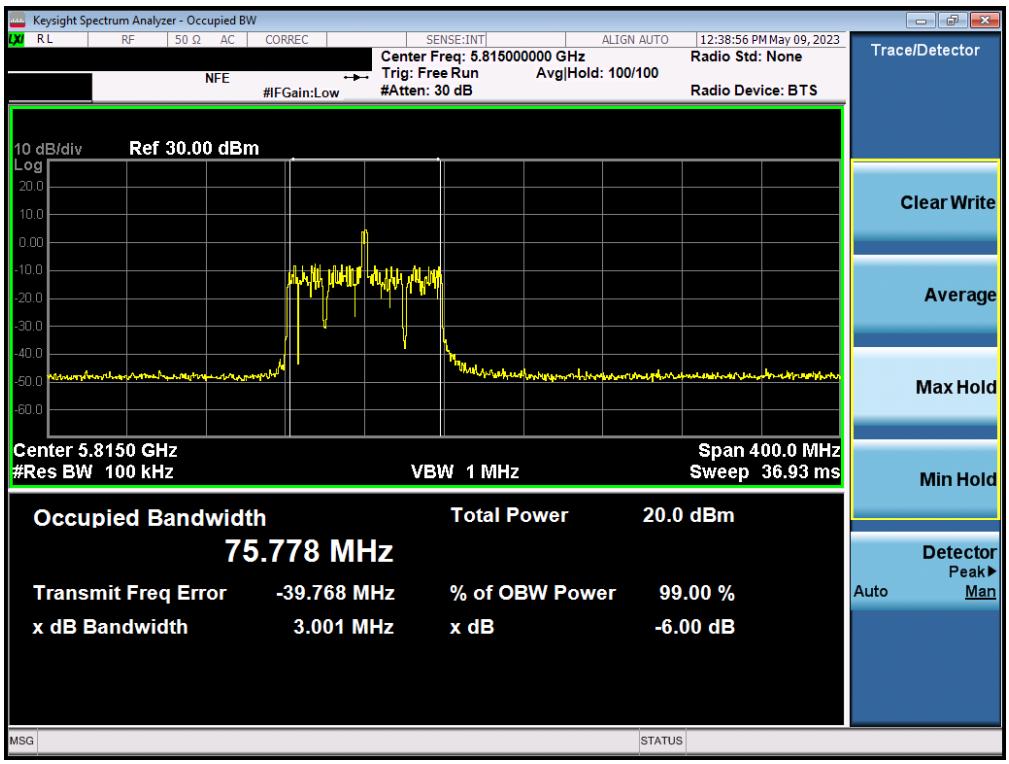
Plot 7-133. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)



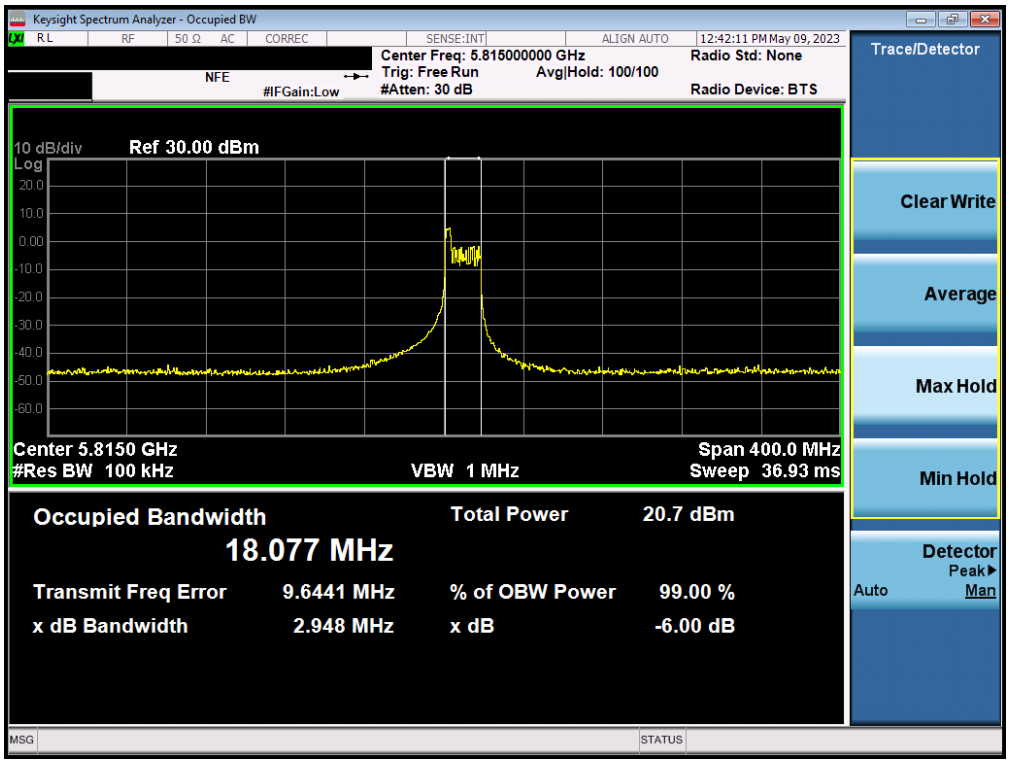
Plot 7-134. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 175)



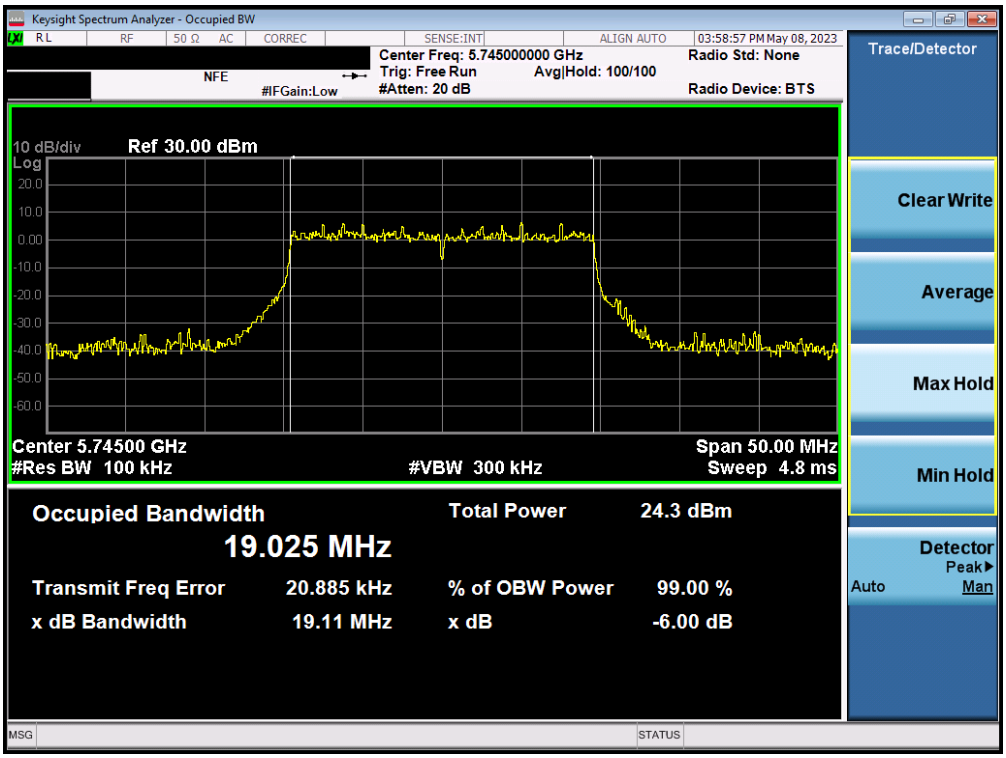
Plot 7-135. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)



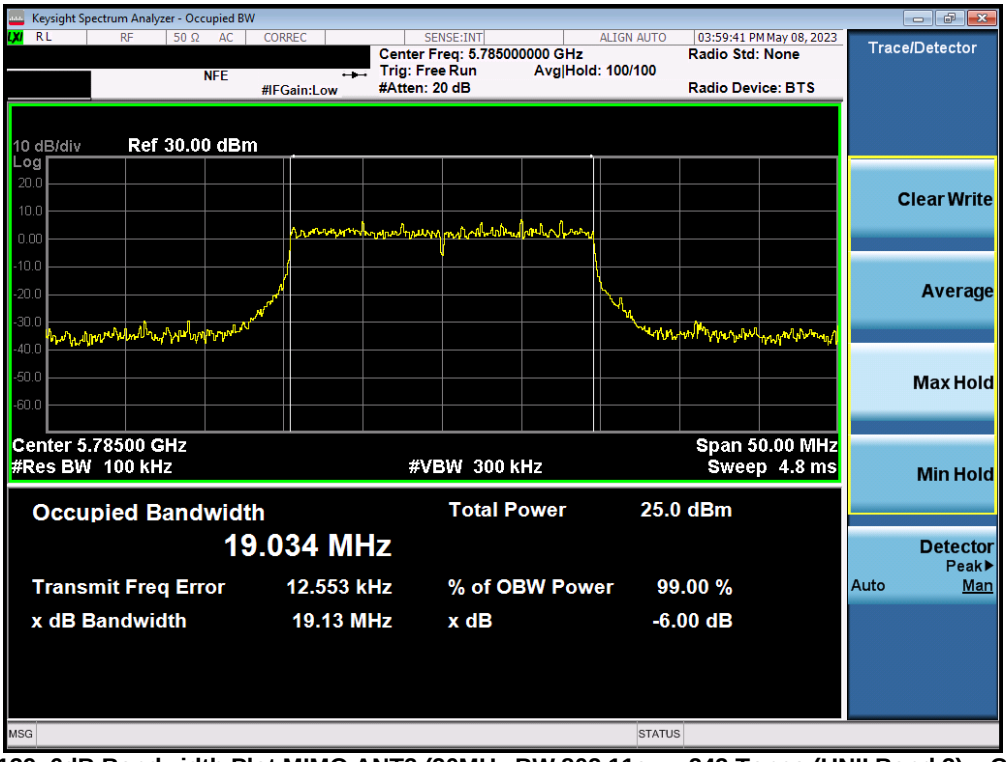
Plot 7-136. 6dB Bandwidth Plot MIMO ANT2 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



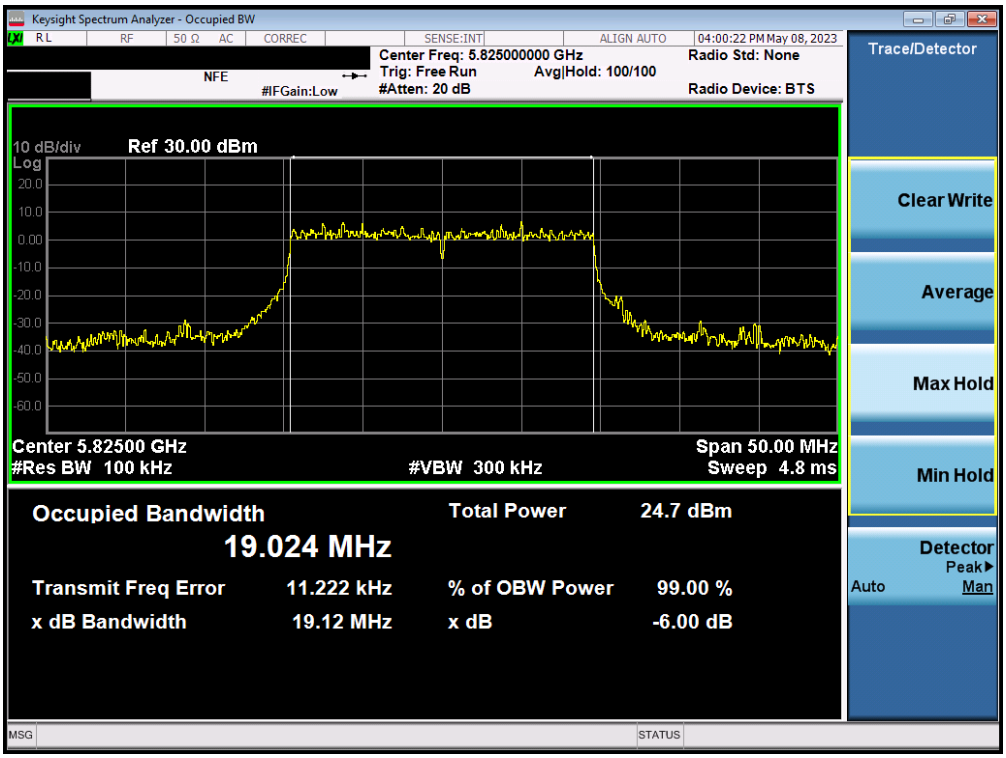
Plot 7-137. 6dB Bandwidth Plot MIMO ANT2 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



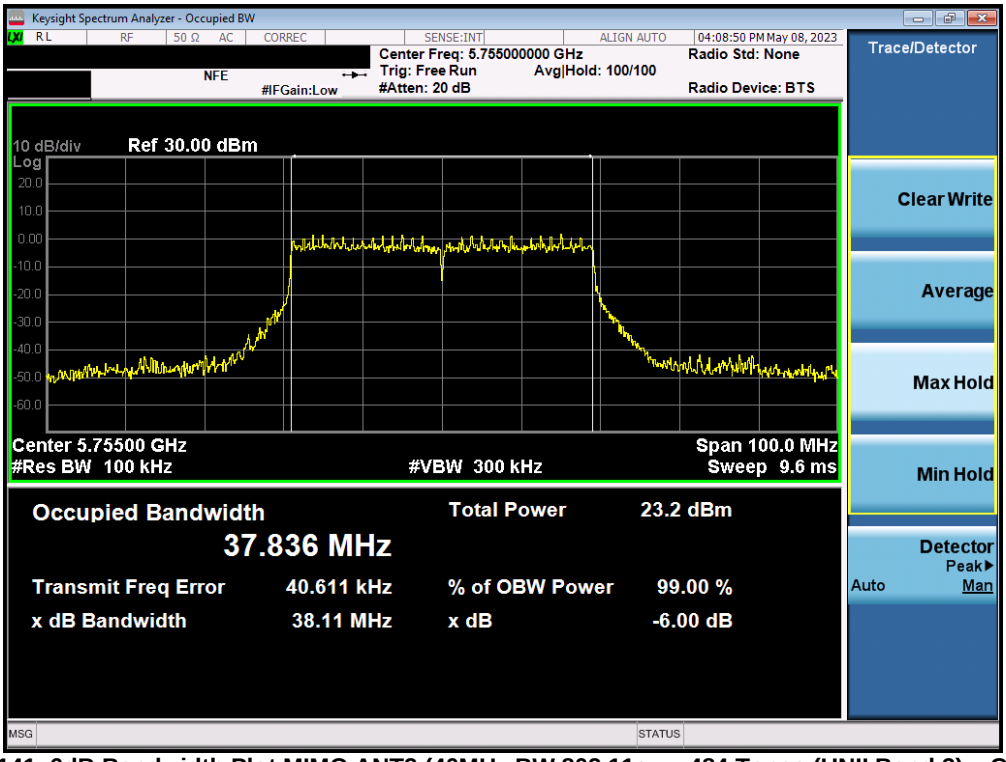
Plot 7-138. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)



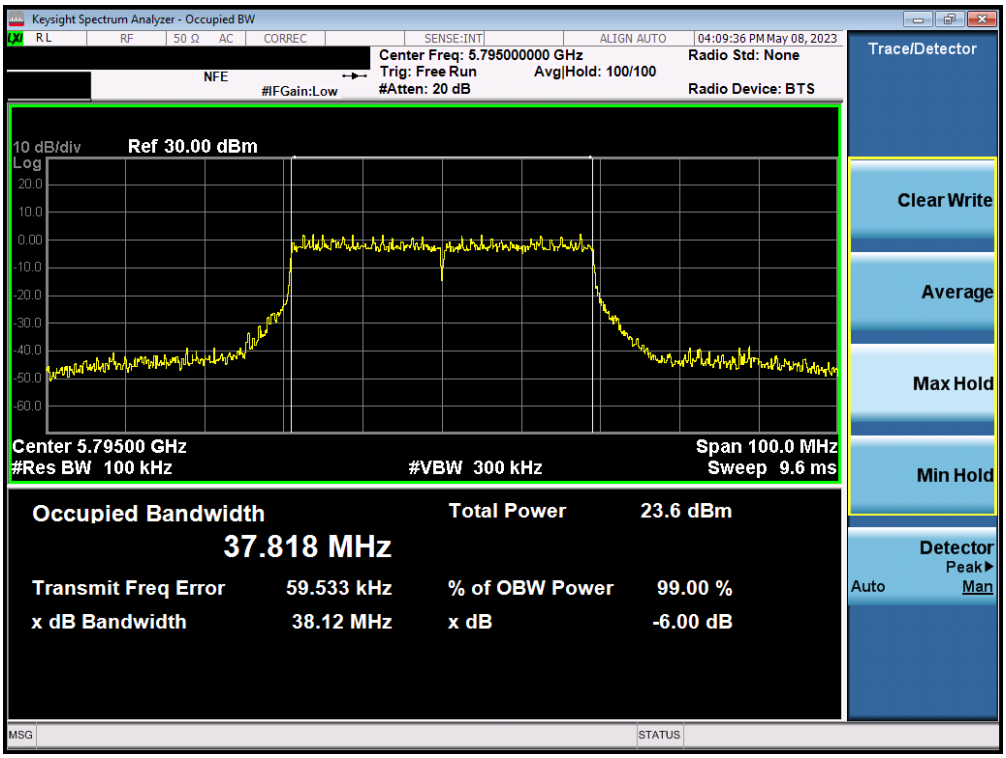
Plot 7-139. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)



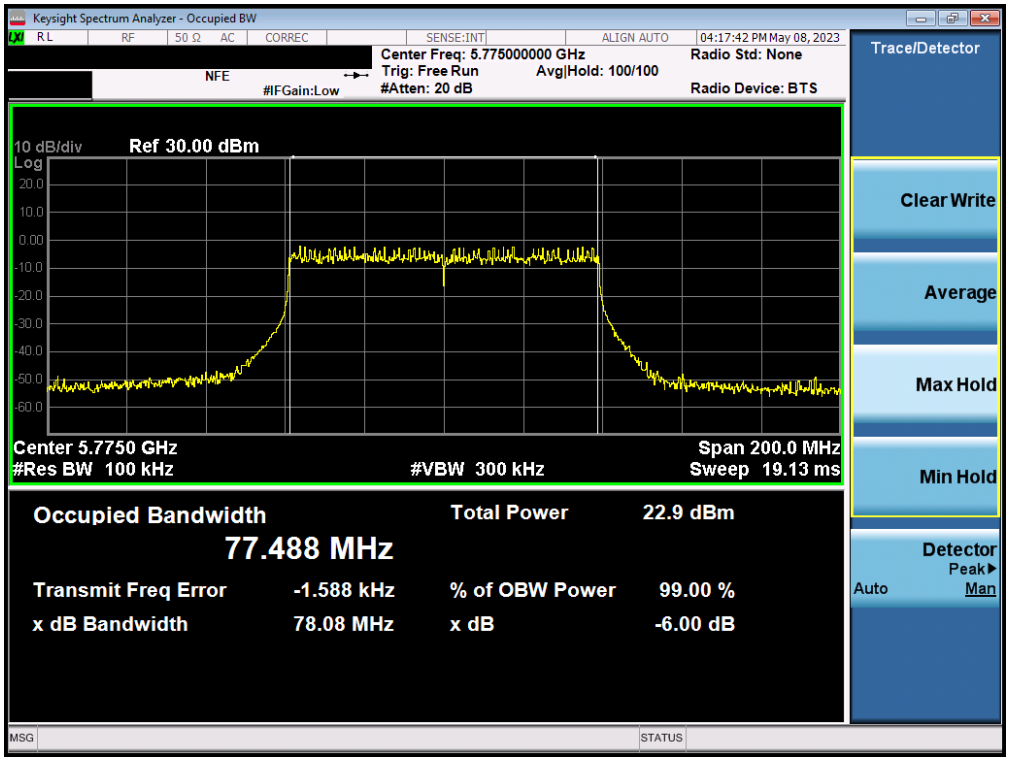
Plot 7-140. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)



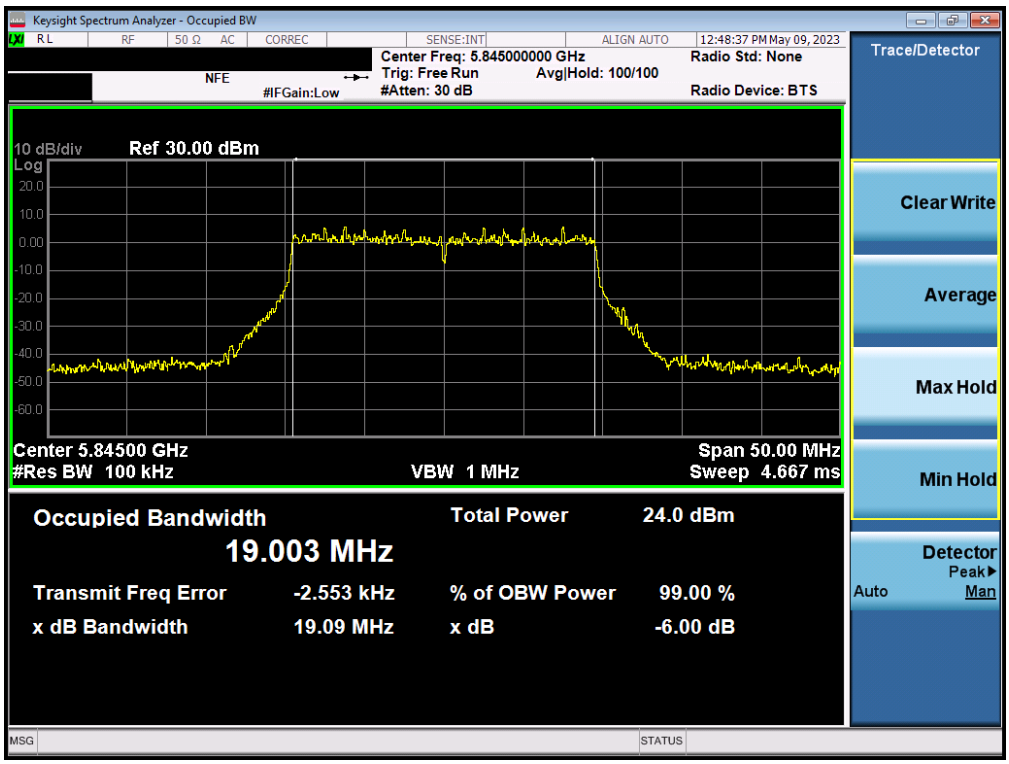
Plot 7-141. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)



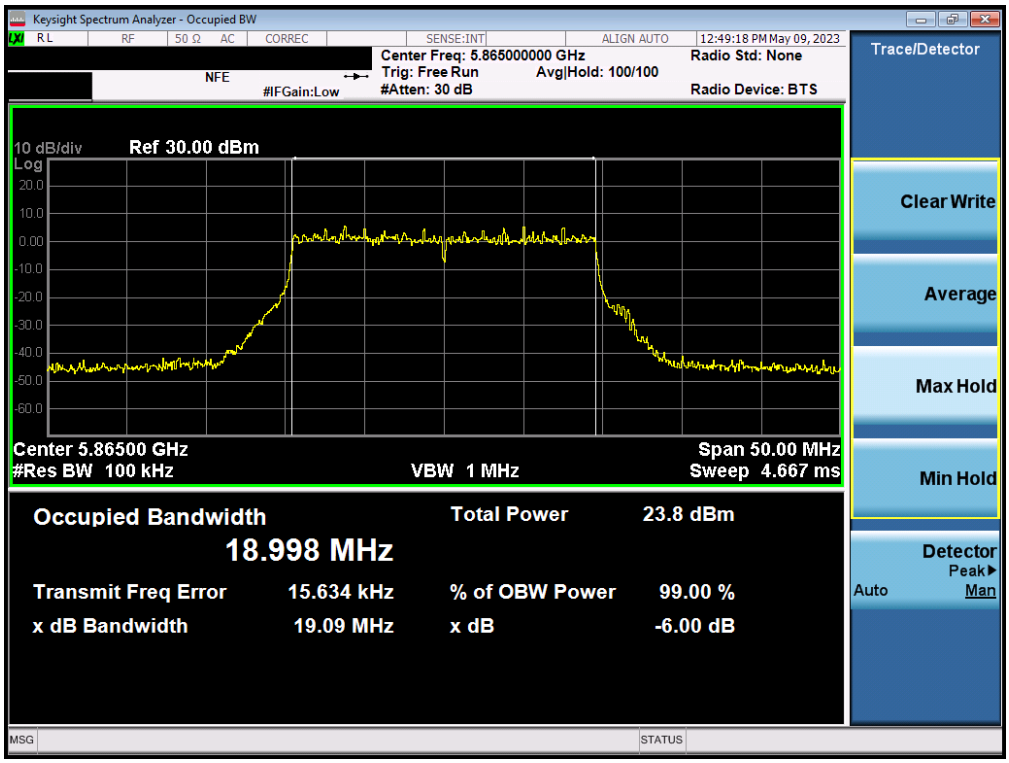
Plot 7-142. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



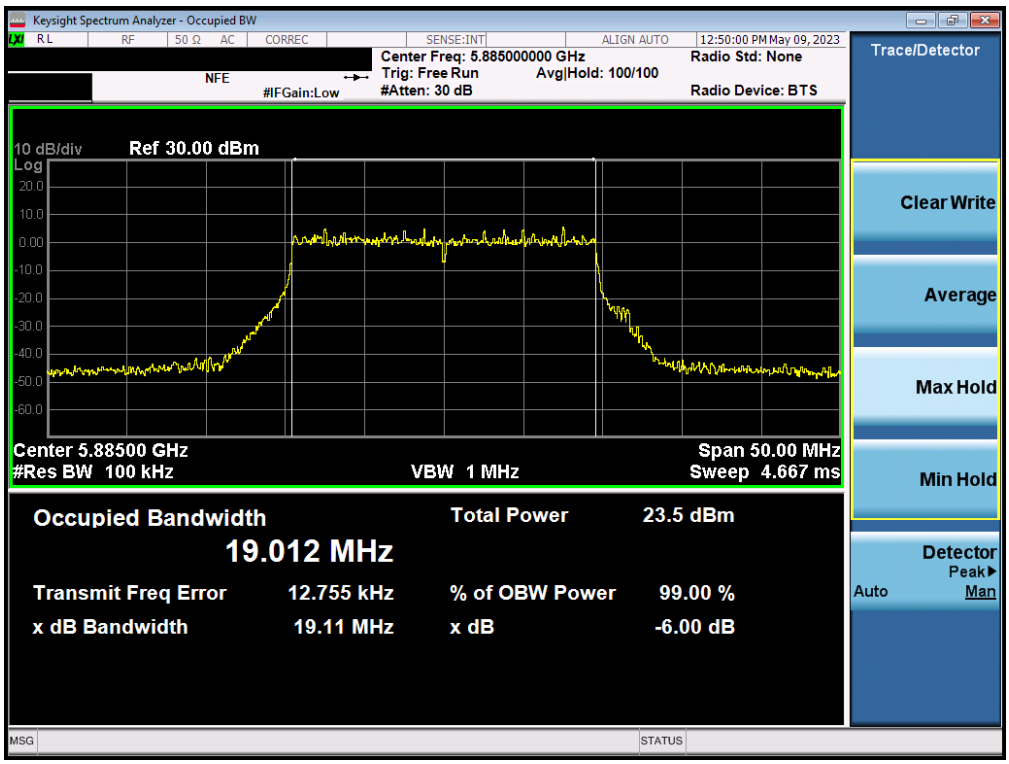
Plot 7-143. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)



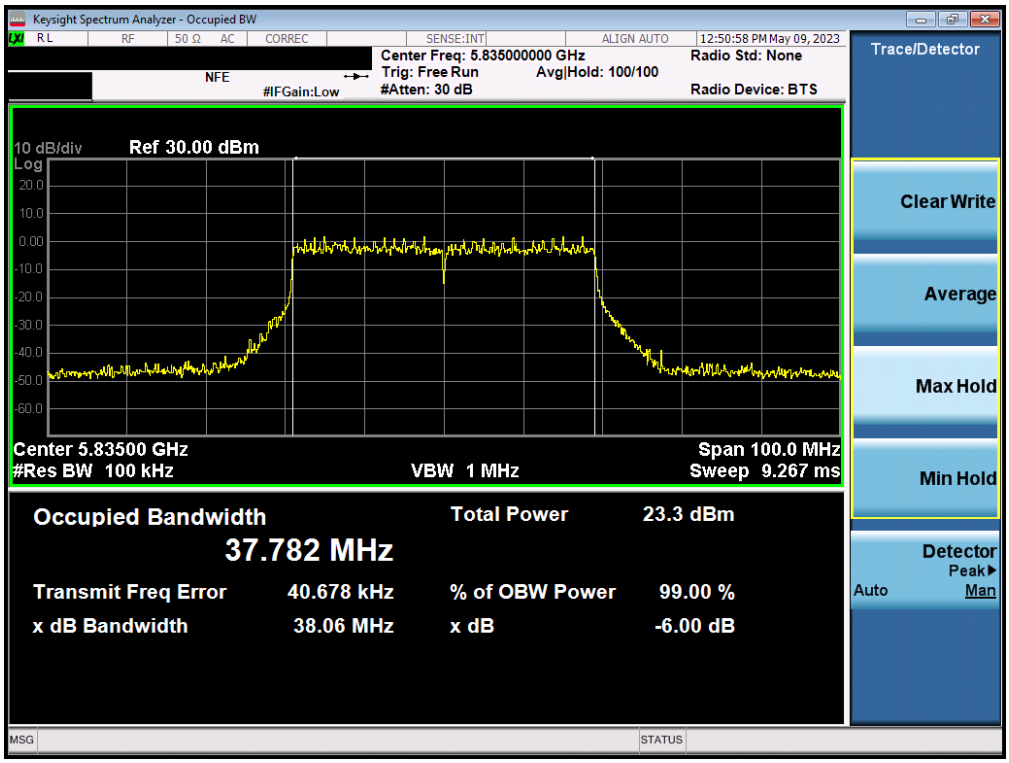
Plot 7-144. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3/4) – Ch. 169)



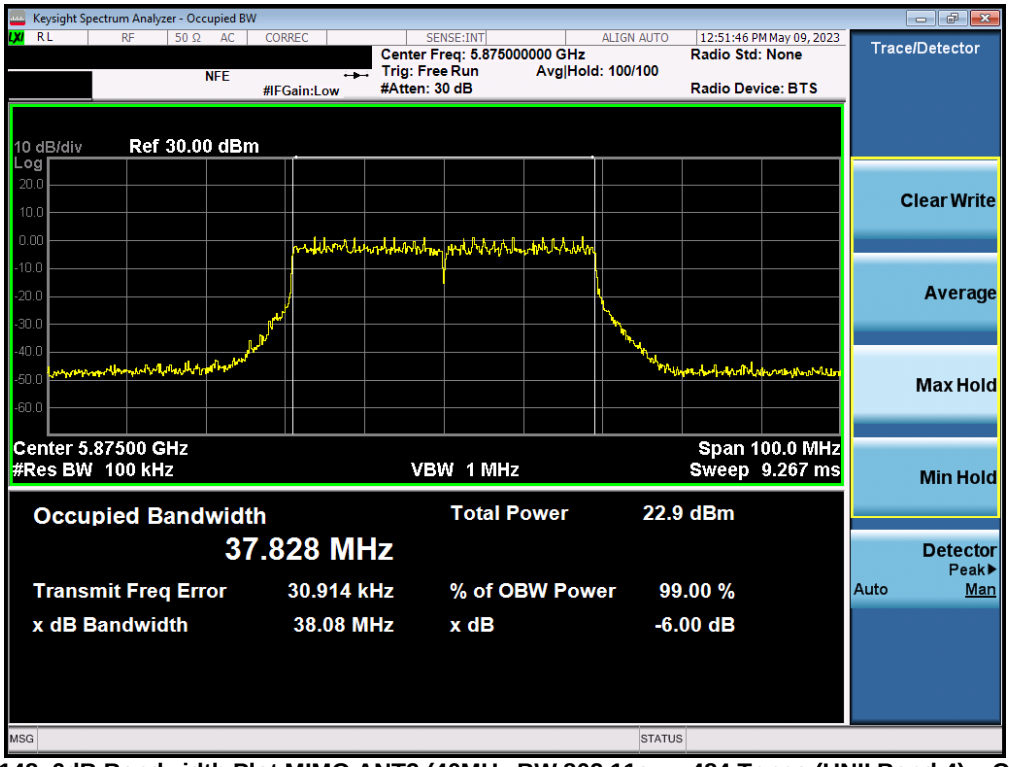
Plot 7-145. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 173)



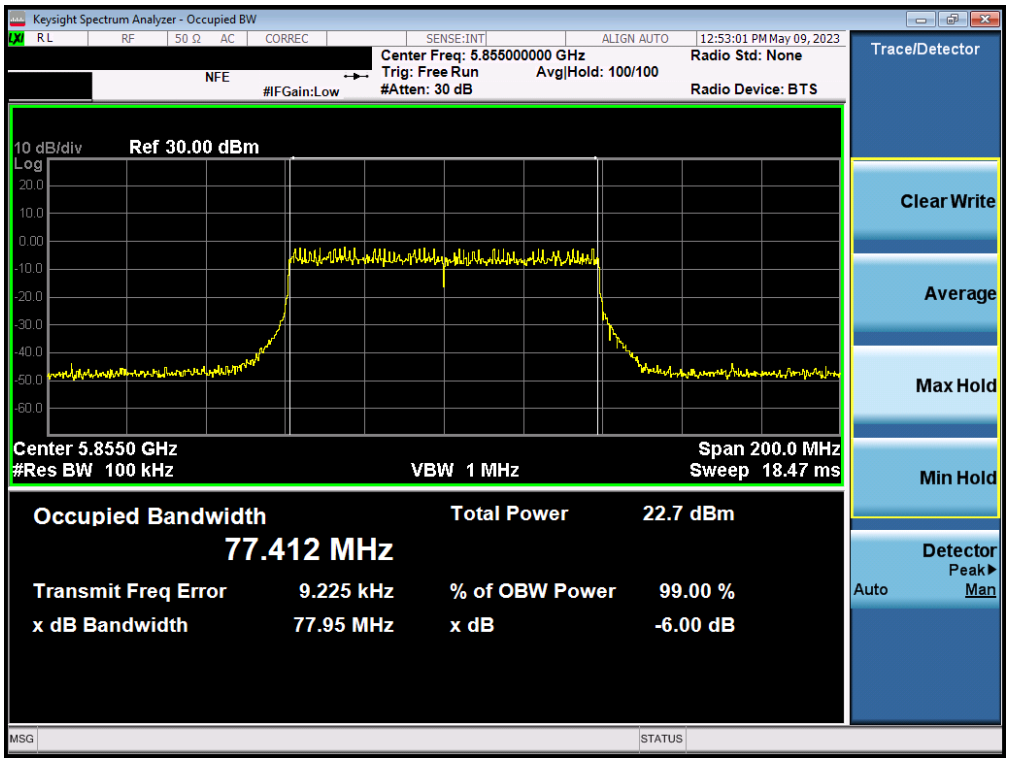
Plot 7-146. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 4) – Ch. 177)



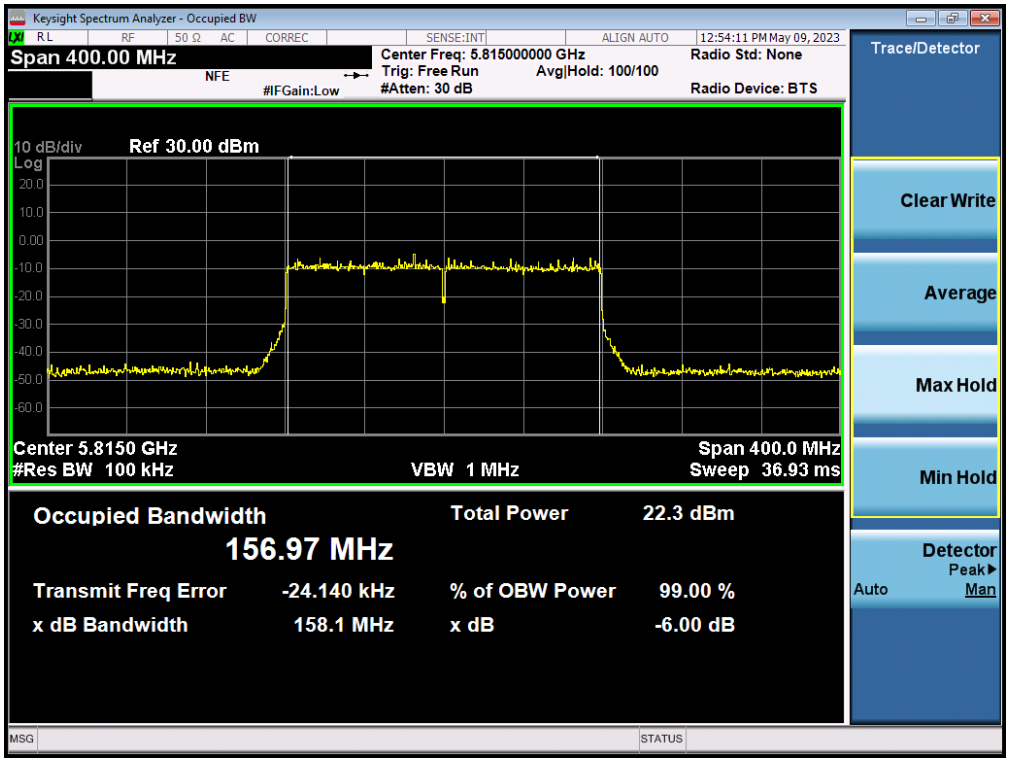
Plot 7-147. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3/4) – Ch. 167)



Plot 7-148. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 4) – Ch. 175)



Plot 7-149. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-150. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11ax – 2x996 Tones (UNII Band 3/4) – Ch. 163)

7.4 UNII Output Power Measurement

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 at the appropriate frequencies.

The output power limits are specified in the tables below.

UNII Band	Frequency Range	Maximum Conducted Power Limit		Maximum e.i.r.p	
		FCC	ISED	FCC	ISED
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A	N/A	The lesser of 23.01dBm (200mW) **or** 10dBm + 10log$_{10}$B
UNII 2A	5.25 – 5.35GHz	The lesser of 23.98dBm (250mW) **or** 11dBm + 10log$_{10}$B		N/A	The lesser of 30dBm (1W) **or** 17dBm + 10log$_{10}$B
UNII 2C	5.47 – 5.725GHz				
UNII 3	5.725 – 5.850GHz	30dBm (1W)		N/A	N/A
UNII 4	5.850 – 5.895GHz	N/A		30dBm (1W)	Not Supported

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G
ANSI C63.10-2013 – Section 14.2 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

None.

MIMO Conducted Output Power Measurements (26 Tones)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					0			4			8								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5180	36	AVG	26T	9.69	9.81	12.76	9.19	9.54	12.38	9.81	9.94	12.89	23.98	-11.09	-3.24	9.65	23.01	-13.36
	5200	40	AVG	26T	9.57	9.83	12.71	9.11	9.71	12.43	9.66	10.03	12.86	23.98	-11.12	-3.24	9.62	23.01	-13.39
	5240	48	AVG	26T	9.34	8.97	12.17	9.17	9.12	12.16	9.49	9.15	12.33	23.98	-11.65	-3.24	9.09	23.01	-13.92
	5260	52	AVG	26T	9.53	9.33	12.44	8.82	9.24	12.05	9.44	9.56	12.51	23.98	-11.47	-2.69	9.82	30.00	-20.18
	5280	56	AVG	26T	9.22	9.43	12.34	8.85	9.21	12.04	9.35	9.17	12.27	23.98	-11.64	-2.69	9.65	30.00	-20.35
	5320	64	AVG	26T	9.33	9.35	12.35	8.79	9.34	12.08	9.31	9.62	12.48	23.98	-11.50	-2.69	9.79	30.00	-20.21
	5500	100	AVG	26T	9.37	9.46	12.43	9.32	9.17	12.26	9.05	9.71	12.40	23.98	-11.55	-2.56	9.87	30.00	-20.13
	5600	120	AVG	26T	10.11	9.75	12.94	9.97	9.09	12.56	9.36	9.60	12.49	23.98	-11.04	-2.56	10.38	30.00	-19.62
	5720	144	AVG	26T	9.89	9.12	12.53	10.10	8.59	12.42	9.76	8.86	12.34	23.98	-11.45	-2.56	9.97	30.00	-20.03
	5745	149	AVG	26T	10.04	8.98	12.55	10.07	8.59	12.40	9.52	8.92	12.24	30.00	-17.45	-3.36	9.19	-	-
	5785	157	AVG	26T	9.61	9.59	12.61	9.77	9.50	12.65	9.62	9.96	12.80	30.00	-17.20	-3.36	9.44	-	-
	5825	165	AVG	26T	9.86	9.52	12.70	9.67	8.72	12.23	9.47	9.40	12.45	30.00	-17.30	-3.36	9.34	-	-
	5845	169	AVG	26T	9.81	9.98	12.91	9.50	9.61	12.57	9.87	9.91	12.90	-	-	-3.46	9.45	30.00	-16.57
	5865	173	AVG	26T	9.88	9.92	12.91	9.42	9.39	12.42	9.99	9.85	12.93	-	-	-3.46	9.47	30.00	-16.57
	5885	177	AVG	26T	9.73	9.15	12.46	9.25	9.21	12.24	9.75	9.38	12.58	-	-	-3.46	9.12	30.00	-16.57

Table 7-14. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					0			8			17								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5190	38	AVG	26T	9.41	9.63	12.53	9.62	9.54	12.59	10.05	9.85	12.96	23.98	-11.02	-3.24	9.72	23.01	-13.29
	5230	46	AVG	26T	9.15	9.41	12.29	9.42	9.31	12.38	9.62	9.41	12.53	23.98	-11.45	-3.24	9.29	23.01	-13.72
	5270	54	AVG	26T	9.43	9.46	12.46	9.85	9.46	12.67	9.61	9.55	12.59	23.98	-11.31	-2.69	9.98	30.00	-20.02
	5310	62	AVG	26T	8.91	9.47	12.21	9.28	9.64	12.47	9.83	9.84	12.85	23.98	-11.13	-2.69	10.16	30.00	-19.84
	5510	102	AVG	26T	9.44	9.32	12.39	9.31	9.42	12.38	9.70	9.37	12.55	23.98	-11.43	-2.56	9.99	30.00	-20.01
	5590	118	AVG	26T	9.79	9.61	12.71	9.52	9.13	12.34	9.54	9.36	12.46	23.98	-11.27	-2.56	10.15	30.00	-19.85
	5710	142	AVG	26T	10.04	8.87	12.50	9.84	8.67	12.30	10.01	8.53	12.34	23.98	-11.48	-2.56	9.94	30.00	-20.06
	5755	151	AVG	26T	9.81	9.08	12.47	9.55	8.72	12.17	9.72	8.81	12.30	30.00	-17.53	-3.36	9.11	-	-
	5795	159	AVG	26T	9.73	9.46	12.61	9.58	9.56	12.58	9.75	9.75	12.76	30.00	-17.24	-3.36	9.40	-	-
	5835	167	AVG	26T	9.76	9.68	12.73	9.81	9.78	12.81	10.01	9.68	12.86	-	-	-3.46	9.40	30.00	-20.60
	5875	175	AVG	26T	9.58	9.02	12.32	9.45	8.99	12.24	10.02	9.01	12.55	-	-	-3.46	9.09	30.00	-20.91

Table 7-15. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					0			18			36								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5210	42	AVG	26T	9.31	9.48	12.41	9.37	9.76	12.58	9.31	9.47	12.40	23.98	-11.40	-3.24	9.34	23.01	-13.67
	5290	58	AVG	26T	9.56	9.41	12.50	9.35	9.57	12.47	9.61	9.83	12.73	23.98	-11.25	-2.69	10.04	30.00	-19.96
	5530	106	AVG	26T	9.67	9.55	12.62	9.88	9.76	12.83	10.13	9.51	12.84	23.98	-11.14	-2.56	10.28	30.00	-19.72
	5610	122	AVG	26T	10.45	8.88	12.75	10.41	8.97	12.76	10.54	9.11	12.89	23.98	-11.09	-2.56	10.33	30.00	-19.67
	5690	138	AVG	26T	9.73	8.25	12.06	9.73	8.56	12.19	10.02	8.45	12.32	23.98	-11.66	-2.56	9.76	30.00	-20.24
	5775	155	AVG	26T	9.95	9.82	12.90	9.96	9.91	12.95	9.86	9.79	12.84	30.00	-17.05	-3.36	9.59	-	-
	5855	171	AVG	26T	9.63	9.46	12.56	9.56	9.38	12.48	9.99	9.03	12.55	-	-	-3.46	9.10	30.00	-20.90

Table 7-16. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					0			18			36								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	26T	9.49	9.25	12.38	9.72	9.45	12.60	9.72	9.36	12.55	23.98	-11.38	-3.24	9.36	23.01	-13.65
	5570	114	AVG	26T	9.52	9.21	12.38	9.64	9.18	12.43	9.98	9.26	12.65	30.00	-17.35	-3.36	9.29	30.00	-20.71
	5815	163	AVG	26T	9.56	9.85	12.72	9.91	9.88	12.91	9.87	9.76	12.83	-	-	-3.46	9.45	30.00	-20.55

Table 7-17. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (26 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					0			18			36								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	26T	9.77	9.35	12.58	9.52	9.25	12.40	9.69	9.30	12.51	23.98	-11.40	-3.24	9.34	23.01	-13.67
	5570	114	AVG	26T	10.17	9.30	12.77	10.18	9.20	12.73	10.34	9.23	12.83	30.00	-17.17	-3.36	9.47	30.00	-20.53
	5815	163	AVG	26T	9.79	9.84	12.83	9.82	9.71	12.78	9.76	9.37	12.58	-	-	-3.46	9.37	30.00	-20.63

Table 7-18. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (26 Tones)

MIMO Conducted Output Power Measurements (52 Tones)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					37			39			40								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5180	36	AVG	52T	12.10	12.22	15.17	12.07	12.15	15.12	12.54	12.34	15.45	23.98	-8.53	-3.24	12.21	23.01	-10.80
	5200	40	AVG	52T	12.14	12.23	15.20	12.03	12.19	15.12	12.55	12.48	15.53	23.98	-8.45	-3.24	12.29	23.01	-10.72
	5240	48	AVG	52T	12.35	12.23	15.30	12.32	12.01	15.18	12.85	12.30	15.59	23.98	-8.39	-3.24	12.35	23.01	-10.66
	5260	52	AVG	52T	11.95	12.10	15.04	11.89	12.18	15.05	12.32	12.25	15.30	23.98	-8.68	-2.69	12.61	30.00	-17.39
	5280	56	AVG	52T	12.48	12.65	15.58	12.19	12.36	15.29	12.65	12.48	15.58	23.98	-8.40	-2.69	12.89	30.00	-17.11
	5320	64	AVG	52T	11.98	12.25	15.13	11.88	12.20	15.05	12.46	12.54	15.51	23.98	-8.47	-2.69	12.82	30.00	-17.18
	5500	100	AVG	52T	12.12	12.21	15.18	12.08	12.72	15.42	12.20	12.87	15.56	23.98	-8.42	-2.56	13.00	30.00	-17.00
	5600	120	AVG	52T	13.06	12.46	15.78	12.78	12.55	15.68	12.89	12.57	15.74	23.98	-8.20	-2.56	13.22	30.00	-16.78
	5720	144	AVG	52T	13.41	12.00	15.77	13.09	11.78	15.49	12.85	11.89	15.41	23.98	-8.21	-2.56	13.21	30.00	-16.79
	5745	149	AVG	52T	13.15	12.09	15.66	12.82	11.86	15.38	12.76	12.00	15.41	30.00	-14.34	-3.36	12.30	-	-
	5785	157	AVG	52T	12.74	12.94	15.85	13.01	12.89	15.96	12.76	13.18	15.99	30.00	-14.01	-3.36	12.63	-	-
	5825	165	AVG	52T	13.11	12.08	15.64	12.89	12.37	15.65	12.81	12.54	15.69	30.00	-14.31	-3.36	12.33	-	-
	5845	169	AVG	52T	12.74	12.62	15.69	12.30	12.28	15.30	12.63	12.57	15.61	-	-	-3.46	12.23	30.00	-16.57
	5865	173	AVG	52T	12.60	12.48	15.55	12.24	12.35	15.31	12.64	12.51	15.59	-	-	-3.46	12.13	30.00	-16.57
	5885	177	AVG	52T	13.05	12.06	15.59	12.64	12.00	15.34	12.94	12.36	15.67	-	-	-3.46	12.21	30.00	-16.57

Table 7-19. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					37			40			44								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5190	38	AVG	52T	13.32	12.48	15.93	12.44	12.56	15.51	12.92	12.58	15.76	23.98	-8.05	-3.24	12.69	23.01	-10.32
	5230	46	AVG	52T	12.91	12.38	15.66	11.83	12.25	15.06	12.71	12.22	15.48	23.98	-8.32	-3.24	12.42	23.01	-10.59
	5270	54	AVG	52T	12.92	12.41	15.68	11.85	12.52	15.21	12.53	12.44	15.50	23.98	-8.30	-2.69	12.99	30.00	-17.01
	5310	62	AVG	52T	12.85	12.66	15.77	11.72	12.52	15.15	12.69	12.67	15.69	23.98	-8.21	-2.69	13.08	30.00	-16.92
	5510	102	AVG	52T	11.99	12.48	15.25	12.01	12.20	15.12	12.26	12.50	15.39	23.98	-8.59	-2.56	12.83	30.00	-17.17
	5590	118	AVG	52T	12.79	12.55	15.68	12.48	12.19	15.35	12.65	12.43	15.55	23.98	-8.30	-2.56	13.12	30.00	-16.88
	5710	142	AVG	52T	12.88	11.60	15.30	12.71	11.38	15.11	12.81	11.51	15.22	23.98	-8.68	-2.56	12.74	30.00	-17.26
	5755	151	AVG	52T	12.93	12.35	15.66	12.56	11.88	15.24	12.57	12.38	15.49	30.00	-14.34	-3.36	12.30	-	-
	5795	159	AVG	52T	12.53	12.78	15.67	12.25	12.69	15.49	12.54	13.03	15.80	30.00	-14.20	-3.36	12.44	-	-
	5835	167	AVG	52T	12.73	12.96	15.86	12.71	12.77	15.75	12.81	12.75	15.79	-	-	-3.46	12.40	30.00	-17.60
	5875	175	AVG	52T	12.67	12.23	15.47	12.43	11.95	15.21	12.63	12.09	15.38	-	-	-3.46	12.01	30.00	-17.99

Table 7-20. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					37			44			52								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5210	42	AVG	52T	12.42	12.61	15.53	12.45	12.51	15.49	12.39	12.53	15.47	23.98	-8.45	-3.24	12.29	23.01	-10.72
	5290	58	AVG	52T	12.59	12.96	15.79	12.51	12.68	15.61	12.56	12.57	15.58	23.98	-8.19	-2.69	13.10	30.00	-16.90
	5530	106	AVG	52T	12.22	12.49	15.37	12.42	12.14	15.29	12.55	12.11	15.35	23.98	-8.61	-2.56	12.81	30.00	-17.19
	5610	122	AVG	52T	13.10	12.28	15.72	12.96	12.06	15.54	13.24	11.92	15.64	23.98	-8.26	-2.56	13.16	30.00	-16.84
	5690	138	AVG	52T	13.33	12.08	15.76	13.27	12.01	15.70	13.49	11.98	15.81	23.98	-8.17	-2.56	13.25	30.00	-16.75
	5775	155	AVG	52T	12.42	12.69	15.57	12.38	12.47	15.44	12.34	12.39	15.38	30.00	-14.43	-3.36	12.21	-	-
	5855	171	AVG	52T	12.45	12.36	15.42	12.31	11.98	15.16	12.51	12.03	15.29	-	-	-3.46	11.96	30.00	-18.04

Table 7-21. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					37			44			52								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	52T	12.70	12.31	15.52	12.93	12.55	15.75	12.85	12.34	15.61	23.98	-8.23	-3.24	12.51	23.01	-10.50
	5570	114	AVG	52T	12.57	12.56	15.58	12.71	12.51	15.62	12.67	12.33	15.51	30.00	-14.38	-3.36	12.26	30.00	-17.74
	5815	163	AVG	52T	12.02	12.67	15.37	11.92	12.69	15.33	11.98	12.49	15.25	-	-	-3.46	11.91	30.00	-18.09

Table 7-22. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (52 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					37			44			52								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	52T	12.92	12.45	15.70	12.88	12.38	15.65	12.93	12.18	15.58	23.98	-8.28	-3.24	12.46	23.01	-10.55
	5570	114	AVG	52T	12.82	12.68	15.76	12.88	12.51	15.71	12.96	12.64	15.81	30.00	-14.19	-3.36	12.45	30.00	-17.55
	5815	163	AVG	52T	12.26	12.67	15.48	12.24	12.50	15.38	12.32	12.04	15.19	-	-	-3.46	12.02	30.00	-17.98

Table 7-23. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (52 Tones)

MIMO Conducted Output Power Measurements (106 Tones)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index						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]
					53			54								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5180	36	AVG	106T	14.58	14.85	17.73	14.58	14.22	17.41	23.98	-6.25	-3.24	14.49	23.01	-8.52
	5200	40	AVG	106T	14.28	14.89	17.61	14.55	14.47	17.52	23.98	-6.37	-3.24	14.37	23.01	-8.64
	5240	48	AVG	106T	14.63	14.44	17.55	14.52	14.05	17.30	23.98	-6.43	-3.24	14.31	23.01	-8.70
	5260	52	AVG	106T	14.76	14.56	17.67	14.57	14.21	17.40	23.98	-6.31	-2.69	14.98	30.00	-15.02
	5280	56	AVG	106T	14.54	14.60	17.58	14.11	14.09	17.11	23.98	-6.40	-2.69	14.89	30.00	-15.11
	5320	64	AVG	106T	14.44	14.95	17.71	14.30	14.48	17.40	23.98	-6.27	-2.69	15.02	30.00	-14.98
	5500	100	AVG	106T	14.06	14.65	17.38	14.98	14.88	17.94	23.98	-6.04	-2.56	15.38	30.00	-14.62
	5600	120	AVG	106T	14.15	14.21	17.19	15.24	14.31	17.81	23.98	-6.17	-2.56	15.25	30.00	-14.75
	5720	144	AVG	106T	14.75	14.00	17.40	15.38	13.83	17.68	23.98	-6.30	-2.56	15.12	30.00	-14.88
	5745	149	AVG	106T	14.22	13.81	17.03	15.22	13.81	17.58	30.00	-12.42	-3.36	14.22	-	-
	5785	157	AVG	106T	13.87	14.35	17.13	14.75	14.44	17.61	30.00	-12.39	-3.36	14.25	-	-
	5825	165	AVG	106T	14.33	14.46	17.41	15.26	14.27	17.80	30.00	-12.20	-3.36	14.44	-	-
	5845	169	AVG	106T	14.75	14.40	17.59	14.91	14.14	17.55	-	-	-3.46	14.13	30.00	-15.87
	5865	173	AVG	106T	14.52	14.26	17.40	14.86	14.24	17.57	-	-	-3.46	14.11	30.00	-15.89
	5885	177	AVG	106T	14.70	13.85	17.31	14.88	13.98	17.46	-	-	-3.46	14.00	30.00	-16.00

Table 7-24. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					53			54			56								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5190	38	AVG	106T	14.65	14.64	17.66	13.93	14.13	17.04	14.54	14.52	17.54	23.98	-6.32	-3.24	14.42	23.01	-8.59
	5230	46	AVG	106T	14.36	14.17	17.28	13.84	14.19	17.03	14.21	14.25	17.24	23.98	-6.70	-3.24	14.04	23.01	-8.97
	5270	54	AVG	106T	14.64	14.42	17.54	13.81	14.28	17.06	14.17	14.24	17.22	23.98	-6.44	-2.69	14.85	30.00	-15.15
	5310	62	AVG	106T	14.22	14.38	17.31	13.88	14.25	17.08	14.30	14.40	17.36	23.98	-6.62	-2.69	14.67	30.00	-15.33
	5510	102	AVG	106T	14.65	14.79	17.73	13.91	14.28	17.11	14.61	14.42	17.53	23.98	-6.25	-2.56	15.17	30.00	-14.83
	5590	118	AVG	106T	14.33	14.40	17.38	14.48	13.82	17.17	14.68	13.92	17.33	23.98	-6.60	-2.56	14.82	30.00	-15.18
	5710	142	AVG	106T	14.77	14.49	17.64	14.93	13.88	17.45	15.07	14.11	17.63	23.98	-6.34	-2.56	15.08	30.00	-14.92
	5755	151	AVG	106T	14.59	14.88	17.75	14.66	14.18	17.44	14.90	14.52	17.72	30.00	-12.25	-3.36	14.39	-	-
	5795	159	AVG	106T	14.18	15.03	17.64	14.20	14.31	17.27	14.37	14.65	17.52	30.00	-12.36	-3.36	14.28	-	-
	5835	167	AVG	106T	14.75	14.69	17.73	14.61	14.22	17.43	14.49	14.12	17.32	-	-	-3.46	14.27	30.00	-15.73
	5875	175	AVG	106T	14.90	14.01	17.49	14.92	13.98	17.49	14.72	13.96	17.37	-	-	-3.46	14.03	30.00	-15.97

Table 7-25. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					53			56			60								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5210	42	AVG	106T	13.92	14.51	17.24	14.25	14.67	17.48	14.28	14.24	17.27	23.98	-6.50	-3.24	14.24	23.01	-8.77
	5290	58	AVG	106T	14.36	14.71	17.55	14.55	14.68	17.63	14.65	14.44	17.56	23.98	-6.35	-2.69	14.94	30.00	-15.06
	5530	106	AVG	106T	14.42	14.82	17.63	14.69	14.71	17.71	14.99	14.66	17.84	23.98	-6.14	-2.56	15.28	30.00	-14.72
	5610	122	AVG	106T	14.83	14.24	17.56	14.99	14.04	17.55	15.24	14.22	17.77	23.98	-6.21	-2.56	15.21	30.00	-14.79
	5690	138	AVG	106T	14.92	14.01	17.50	15.12	13.96	17.59	15.28	13.92	17.66	23.98	-6.32	-2.56	15.10	30.00	-14.90
	5775	155	AVG	106T	14.14	14.58	17.38	13.88	14.62	17.28	14.66	14.41	17.55	30.00	-12.45	-3.36	14.19	-	-
	5855	171	AVG	106T	14.53	14.38	17.47	14.41	14.13	17.28	14.54	13.92	17.25	-	-	-3.46	14.01	30.00	-15.99

Table 7-26. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					53			56			60								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	106T	14.88	14.85	17.88	14.52	14.89	17.72	15.02	14.72	17.88	23.98	-6.10	-3.24	14.64	23.01	-8.37
	5570	114	AVG	106T	14.45	14.86	17.67	14.53	14.64	17.60	14.84	14.55	17.71	30.00	-12.29	-3.36	14.35	30.00	-15.65
	5815	163	AVG	106T	14.32	14.75	17.55	14.32	14.62	17.48	14.43	14.58	17.52	-	-	-3.46	14.09	30.00	-15.91

Table 7-27. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (106 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index									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]
					53			56			60								
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5250	50	AVG	106T	14.94	14.52	17.75	15.24	14.65	17.97	15.10	14.58	17.86	23.98	-6.01	-3.24	14.73	23.01	-8.28
	5570	114	AVG	106T	14.98	14.15	17.60	15.22	14.65	17.95	15.25	14.65	17.97	30.00	-12.03	-3.36	14.61	30.00	-15.39
	5815	163	AVG	106T	14.51	14.32	17.43	14.37	14.46	17.43	14.52	14.35	17.45	-	-	-3.46	13.99	30.00	-16.01

Table 7-28. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (106 Tones)

MIMO Conducted Output Power Measurements (242 Tones)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 61 ANT1	RU Index 61 ANT2	RU Index 61 MIMO	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]
	5180	36	AVG	242T	16.67	16.29	19.49	23.98	-4.48	-3.24	16.25	23.01	-6.76
	5200	40	AVG	242T	17.41	17.65	20.54	23.98	-3.44	-3.24	17.30	23.01	-5.71
	5240	48	AVG	242T	17.47	17.16	20.33	23.98	-3.65	-3.24	17.09	23.01	-5.92
	5260	52	AVG	242T	17.67	17.41	20.55	23.98	-3.43	-2.69	17.86	30.00	-12.14
	5280	56	AVG	242T	17.41	17.33	20.38	23.98	-3.60	-2.69	17.69	30.00	-12.31
	5320	64	AVG	242T	14.84	15.48	18.18	23.98	-5.80	-2.69	15.49	30.00	-14.51
	5500	100	AVG	242T	16.10	15.94	19.03	23.98	-4.95	-2.56	16.47	30.00	-13.53
	5600	120	AVG	242T	17.84	17.30	20.59	23.98	-3.39	-2.56	18.03	30.00	-11.97
	5720	144	AVG	242T	17.99	16.94	20.51	23.98	-3.47	-2.56	17.95	30.00	-12.05
	5745	149	AVG	242T	17.98	16.79	20.44	30.00	-9.56	-3.36	17.08	-	-
	5785	157	AVG	242T	17.74	17.79	20.78	30.00	-9.22	-3.36	17.42	-	-
	5825	165	AVG	242T	18.18	17.60	20.91	30.00	-9.09	-3.36	17.55	-	-
	5845	169	AVG	242T	17.82	17.24	20.55	-	-	-3.46	17.09	30.00	-8.43
	5865	173	AVG	242T	17.88	17.01	20.48	-	-	-3.46	17.02	30.00	-8.43
	5885	177	AVG	242T	18.08	16.80	20.50	-	-	-3.46	17.04	30.00	-8.43

Table 7-29. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 61 ANT1	RU Index 61 ANT2	RU Index 61 MIMO	RU Index 62 ANT1	RU Index 62 ANT2	RU Index 62 MIMO	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]
	5190	38	AVG	242T	16.05	16.41	19.24	16.26	16.04	19.16	23.98	-4.74	-3.24	16.00	23.01	-7.01
	5230	46	AVG	242T	16.30	16.43	19.38	16.57	16.24	19.42	23.98	-4.56	-3.24	16.18	23.01	-6.83
	5270	54	AVG	242T	16.60	16.67	19.65	16.57	16.41	19.50	23.98	-4.33	-2.69	16.96	30.00	-13.04
	5310	62	AVG	242T	16.11	16.62	19.38	16.37	16.54	19.47	23.98	-4.51	-2.69	16.78	30.00	-13.22
	5510	102	AVG	242T	16.24	16.36	19.31	16.41	16.11	19.27	23.98	-4.67	-2.56	16.75	30.00	-13.25
	5590	118	AVG	242T	16.86	16.92	19.90	16.93	16.58	19.77	23.98	-4.08	-2.56	17.34	30.00	-12.66
	5710	142	AVG	242T	16.94	16.28	19.63	17.13	16.12	19.66	23.98	-4.32	-2.56	17.10	30.00	-12.90
	5755	151	AVG	242T	16.34	16.81	19.59	16.55	16.64	19.61	30.00	-10.39	-3.36	16.25	-	-
	5795	159	AVG	242T	16.17	16.83	19.52	16.55	16.61	19.59	30.00	-10.41	-3.36	16.23	-	-
	5835	167	AVG	242T	16.11	16.43	19.28	16.25	16.17	19.22	-	-	-3.46	15.82	30.00	-14.18
	5875	175	AVG	242T	16.42	15.98	19.22	16.52	16.10	19.33	-	-	-3.46	15.87	30.00	-14.13

Table 7-30. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 61 ANT1	RU Index 61 ANT2	RU Index 61 MIMO	RU Index 62 ANT1	RU Index 62 ANT2	RU Index 62 MIMO	RU Index 64 ANT1	RU Index 64 ANT2	RU Index 64 MIMO	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]
	5210	42	AVG	242T	15.64	15.88	18.77	15.36	15.65	18.52	15.14	15.86	18.53	23.98	-5.21	-3.24	15.53	23.01	-7.48
	5290	58	AVG	242T	15.73	15.58	18.67	15.25	15.29	18.28	15.71	15.36	18.55	23.98	-5.31	-2.69	15.98	30.00	-14.02
	5530	106	AVG	242T	15.30	15.24	18.28	15.13	15.02	18.09	15.73	15.32	18.54	23.98	-5.44	-2.56	15.98	30.00	-14.02
	5610	122	AVG	242T	16.03	15.15	18.62	15.72	14.88	18.33	16.29	15.21	18.79	23.98	-5.19	-2.56	16.23	30.00	-13.77
	5690	138	AVG	242T	16.25	14.82	18.60	16.01	14.64	18.39	16.46	14.93	18.77	23.98	-5.21	-2.56	16.21	30.00	-13.79
	5775	155	AVG	242T	15.51	15.29	18.41	15.23	15.12	18.19	15.75	15.39	18.58	30.00	-11.42	-3.36	15.22	-	-
	5855	171	AVG	242T	15.57	15.31	18.45	15.18	15.05	18.13	15.50	15.00	18.27	-	-	-3.46	14.99	30.00	-15.01

Table 7-31. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 61 ANT1	RU Index 61 ANT2	RU Index 61 MIMO	RU Index 62 ANT1	RU Index 62 ANT2	RU Index 62 MIMO	RU Index 64 ANT1	RU Index 64 ANT2	RU Index 64 MIMO	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]
	5250	50	AVG	242T	14.61	14.48	17.56	14.94	14.76	17.86	14.45	14.54	17.51	23.98	-6.12	-3.24	14.62	23.01	-8.39
	5570	114	AVG	242T	14.54	14.25	17.41	14.81	14.53	17.68	15.08	14.47	17.80	30.00	-12.20	-3.36	14.44	30.00	-15.56
	5815	163	AVG	242T	14.44	14.20	17.33	14.16	14.62	17.41	14.21	14.25	17.24	-	-	-3.46	13.95	30.00	-16.05

Table 7-32. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (242 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 61 ANT1	RU Index 61 ANT2	RU Index 61 MIMO	RU Index 62 ANT1	RU Index 62 ANT2	RU Index 62 MIMO	RU Index 64 ANT1	RU Index 64 ANT2	RU Index 64 MIMO	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]
	5250	50	AVG	242T	14.98	14.55	17.78	14.92	14.51	17.73	15.00	14.61	17.82	23.98	-6.16	-3.24	14.58	23.01	-8.43
	5570	114	AVG	242T	14.27	14.52	17.41	14.68	14.56	17.63	14.76	14.75	17.77	30.00	-12.23	-3.36	14.41	30.00	-15.59
	5815	163	AVG	242T	14.49	14.55	17.53	14.61	14.40	17.52	14.65	14.24	17.46	-	-	-3.46	14.07	30.00	-15.93

Table 7-33. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (242 Tones)

MIMO Conducted Output Power Measurements (484 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index 65 ANT1	RU Index 65 ANT2	RU Index 65 MIMO	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]
5GHz (40MHz Bandwidth)	5190	38	AVG	484T	15.21	15.36	18.30	23.98	-5.68	-3.24	15.06	23.01	-7.95
	5230	46	AVG	484T	16.20	16.36	19.29	23.98	-4.69	-3.24	16.05	23.01	-6.96
	5270	54	AVG	484T	16.62	16.51	19.58	23.98	-4.40	-2.69	16.89	30.00	-13.11
	5310	62	AVG	484T	13.57	14.00	16.80	23.98	-7.18	-2.69	14.11	30.00	-15.89
	5510	102	AVG	484T	15.32	15.14	18.24	23.98	-5.74	-2.56	15.68	30.00	-14.32
	5590	118	AVG	484T	16.58	16.23	19.42	23.98	-4.56	-2.56	16.86	30.00	-13.14
	5710	142	AVG	484T	16.74	15.83	19.32	23.98	-4.66	-2.56	16.76	30.00	-13.24
	5755	151	AVG	484T	16.66	16.13	19.41	30.00	-10.59	-3.36	16.05	-	-
	5795	159	AVG	484T	16.45	16.74	19.61	30.00	-10.39	-3.36	16.25	-	-
	5835	167	AVG	484T	16.54	16.12	19.35	-	-	-3.46	15.89	30.00	-14.11
	5875	175	AVG	484T	16.56	15.97	19.29	-	-	-3.46	15.83	30.00	-14.17

Table 7-34. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index 65 ANT1	RU Index 65 ANT2	RU Index 65 MIMO	RU Index 66 ANT1	RU Index 66 ANT2	RU Index 66 MIMO	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]
5GHz (80MHz Bandwidth)	5210	42	AVG	484T	15.54	15.90	18.73	15.22	15.34	18.29	23.98	-5.25	-3.24	15.49	23.01	-7.52
	5290	58	AVG	484T	15.54	15.54	18.55	15.38	14.98	18.19	23.98	-5.43	-2.69	15.86	30.00	-14.14
	5530	106	AVG	484T	15.28	15.35	18.33	15.25	14.98	18.13	23.98	-5.65	-2.56	15.77	30.00	-14.23
	5610	122	AVG	484T	15.79	15.25	18.54	15.98	14.88	18.48	23.98	-5.44	-2.56	15.98	30.00	-14.02
	5690	138	AVG	484T	16.06	14.93	18.54	16.08	14.68	18.45	23.98	-5.44	-2.56	15.98	30.00	-14.02
	5775	155	AVG	484T	15.35	15.46	18.42	15.33	15.20	18.28	30.00	-11.58	-3.36	15.06	-	-
	5855	171	AVG	484T	15.67	15.40	18.55	15.42	14.96	18.21	-	-	-3.46	15.09	30.00	-14.91

Table 7-35. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index 65 ANT1	RU Index 65 ANT2	RU Index 65 MIMO	RU Index 66 ANT1	RU Index 66 ANT2	RU Index 66 MIMO	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]
5GHz (160MHz Bandwidth)	5250	50	AVG	484T	14.92	14.43	17.69	14.87	14.36	17.63	23.98	-6.29	-3.24	14.45	23.01	-8.56
	5570	114	AVG	484T	14.45	14.66	17.57	15.01	14.55	17.80	30.00	-12.20	-3.36	14.44	30.00	-15.56
	5815	163	AVG	484T	14.24	14.55	17.41	14.46	14.58	17.53	-	-	-3.46	14.07	30.00	-15.93

Table 7-36. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (484 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index 65 ANT1	RU Index 65 ANT2	RU Index 65 MIMO	RU Index 66 ANT1	RU Index 66 ANT2	RU Index 66 MIMO	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]
5GHz (160MHz Bandwidth)	5250	50	AVG	484T	14.96	14.38	17.69	14.89	14.25	17.59	23.98	-6.29	-3.24	14.45	23.01	-8.56
	5570	114	AVG	484T	14.88	14.65	17.78	15.29	14.57	17.96	30.00	-12.04	-3.36	14.60	30.00	-15.40
	5815	163	AVG	484T	14.37	14.53	17.46	14.47	14.35	17.42	-	-	-3.46	14.00	30.00	-16.00

Table 7-37. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (484 Tones)

MIMO Conducted Output Power Measurements (996 Tones)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 67 ANT1	RU Index 67 ANT2	RU Index 67 MIMO	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]
	5210	42	AVG	996T	15.51	15.82	18.68	23.98	-5.30	-3.24	15.44	23.01	-7.57
	5290	58	AVG	996T	14.98	14.95	17.98	23.98	-6.00	-2.69	15.29	30.00	-14.71
	5530	106	AVG	996T	14.58	14.70	17.65	23.98	-6.33	-2.56	15.09	30.00	-14.91
	5610	122	AVG	996T	15.90	15.05	18.51	23.98	-5.47	-2.56	15.95	30.00	-14.05
	5690	138	AVG	996T	16.04	14.82	18.48	23.98	-5.50	-2.56	15.92	30.00	-14.08
	5775	155	AVG	996T	15.41	15.45	18.44	30.00	-11.56	-3.36	15.08	-	-
	5855	171	AVG	996T	15.63	15.11	18.39	-	-	-3.46	14.93	30.00	-15.07

Table 7-38. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 67 ANT1	RU Index 67 ANT2	RU Index 67 MIMO	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]
	5250	50	AVG	996T	14.55	14.45	17.51	23.98	-6.47	-3.24	14.27	23.01	-8.74
	5570	114	AVG	996T	14.54	14.46	17.51	30.00	-12.49	-3.36	14.15	30.00	-15.85
	5815	163	AVG	996T	14.42	14.37	17.41	-	-	-3.46	13.95	30.00	-16.05

Table 7-39. MIMO 160MHz BW (L) (UNII) Maximum Conducted Output Power (996 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index 67 ANT1	RU Index 67 ANT2	RU Index 67 MIMO	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]
	5250	50	AVG	996T	14.94	14.53	17.75	23.98	-6.23	-3.24	14.51	23.01	-8.50
	5570	114	AVG	996T	14.99	14.39	17.71	30.00	-12.29	-3.36	14.35	30.00	-15.65
	5815	163	AVG	996T	14.55	14.31	17.44	-	-	-3.46	13.98	30.00	-16.02

Table 7-40. MIMO 160MHz BW (U) (UNII) Maximum Conducted Output Power (996 Tones)

MIMO Conducted Output Power Measurements (2x996 Tones)

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Tones	RU Index			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]
					68								
					ANT1	ANT2	MIMO						
	5250	50	AVG	996T	14.28	13.73	17.02	23.98	-6.96	-3.24	13.78	23.01	-9.23
	5570	114	AVG	996T	14.58	14.43	17.52	30.00	-12.48	-3.36	14.16	30.00	-15.84
	5815	163	AVG	996T	14.25	14.13	17.20	-	-	-3.46	13.74	30.00	-16.26

Table 7-41. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2x996 Tones)

Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO 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.

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

Sample MIMO Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode 242T, the average conducted output power was measured to be 16.67 dBm for Antenna 1 and 16.29 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(16.67dBm + 16.29 dBm) = (46.45mW + 42.56 mW) = 89.01 mW = 19.49 dBm

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode 242T, the average MIMO conducted power was calculated to be 19.49 dBm with directional gain of -3.24 dBi.

e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

19.49 dBm + -3.24 dBi = 16.25 dBm

7.5 Maximum Power Spectral Density

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 at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013, was used to measure the power spectral density.

The output power density limits are as specified in the tables below.

UNII Band	Frequency Range	Maximum Power Spectral Density	
		FCC	ISED
UNII 1	5.15 – 5.25GHz	11dBm/MHz	10dBm/MHz e.i.r.p
UNII 2A	5.25 – 5.35GHz	11dBm/MHz	
UNII 2C	5.47 – 5.725GHz		
UNII 3	5.725 – 5.850GHz	30dBm/500kHz	
UNII 4	5.850 – 5.895GHz	14dBm/MHz e.i.r.p	Not Supported

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 (Method SA-1)
ANSI C63.10-2013 – Section 14.3.2.2 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 x (span/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

The power spectral density for each channel was measured with the RU index showing the highest conducted power.

Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	7.88	7.10	10.52	11.00	-0.48
	5200	40	ax (20MHz)	26T	MCS0	8.05	7.09	10.61	11.00	-0.39
	5240	48	ax (20MHz)	26T	MCS0	7.11	5.79	9.51	11.00	-1.49
	5190	38	ax (40MHz)	26T	MCS0	7.27	7.25	10.27	11.00	-0.73
	5230	46	ax (40MHz)	26T	MCS0	7.36	6.44	9.93	11.00	-1.07
	5210	42	ax (80MHz)	26T	MCS0	6.21	5.81	9.02	11.00	-1.98
Band 1/2A	5210	50	ax (160MHz L)	26T	MCS0	5.53	4.65	8.12	11.00	-2.88
	5210	50	ax (160MHz U)	26T	MCS0	6.49	5.34	8.96	11.00	-2.04
Band 2A	5260	52	ax (20MHz)	26T	MCS0	6.95	5.89	9.46	11.00	-1.54
	5280	56	ax (20MHz)	26T	MCS0	6.70	6.18	9.46	11.00	-1.54
	5320	64	ax (20MHz)	26T	MCS0	7.01	6.33	9.69	11.00	-1.31
	5270	54	ax (40MHz)	26T	MCS0	7.45	6.43	9.98	11.00	-1.02
	5310	62	ax (40MHz)	26T	MCS0	6.97	6.82	9.91	11.00	-1.09
	5290	58	ax (80MHz)	26T	MCS0	7.41	6.93	10.19	11.00	-0.81
Band 2C	5500	100	ax (20MHz)	26T	MCS0	7.42	6.50	9.99	11.00	-1.01
	5600	120	ax (20MHz)	26T	MCS0	8.03	6.86	10.49	11.00	-0.51
	5720	144	ax (20MHz)	26T	MCS0	8.39	6.96	10.74	11.00	-0.26
	5510	102	ax (40MHz)	26T	MCS0	7.16	5.96	9.61	11.00	-1.39
	5590	118	ax (40MHz)	26T	MCS0	7.55	6.82	10.21	11.00	-0.79
	5710	142	ax (40MHz)	26T	MCS0	8.08	6.81	10.50	11.00	-0.50
	5530	106	ax (80MHz)	26T	MCS0	7.57	6.68	10.16	11.00	-0.84
	5610	122	ax (80MHz)	26T	MCS0	8.06	6.88	10.52	11.00	-0.48
	5690	138	ax (80MHz)	26T	MCS0	7.68	6.00	9.93	11.00	-1.07
	5570	114	ax (160MHz L)	26T	MCS0	6.55	5.31	8.98	11.00	-2.02
	5570	114	ax (160MHz U)	26T	MCS0	6.60	5.39	9.05	11.00	-1.95

Table 7-42. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	5.51	4.35	7.98	30.00	-22.02
	5785	157	ax (20MHz)	26T	MCS0	5.39	5.41	8.41	30.00	-21.59
	5825	165	ax (20MHz)	26T	MCS0	4.90	4.65	7.79	30.00	-22.21
	5755	151	ax (40MHz)	26T	MCS0	5.56	4.32	7.99	30.00	-22.01
	5795	159	ax (40MHz)	26T	MCS0	5.10	5.17	8.15	30.00	-21.85
	5775	155	ax (80MHz)	26T	MCS0	4.86	4.59	7.74	30.00	-22.26

Table 7-43. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	7.75	7.29	10.54	30.00	-19.46	-3.46	7.08	14.00	-6.92
Band 4	5865	173	ax (20MHz)	26T	MCS0	7.54	7.12	10.34			-3.46	6.89	14.00	-7.11
	5885	177	ax (20MHz)	26T	MCS0	7.56	6.29	9.98			-3.46	6.52	14.00	-7.48
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	7.31	6.97	10.16	30.00	-19.84	-3.46	6.70	14.00	-7.30
Band 4	5875	175	ax (40MHz)	26T	MCS0	7.46	6.05	9.82			-3.46	6.36	14.00	-7.64
Band 3/4	5855	171	ax (80MHz)	26T	MCS0	7.61	7.43	10.53	30.00	-19.47	-3.46	7.08	14.00	-6.92
	5815	163	ax (160MHz L)	26T	MCS0	5.66	5.70	8.69	30.00	-21.31	-3.46	5.23	14.00	-8.77
	5815	163	ax (160MHz U)	26T	MCS0	6.18	6.29	9.25	30.00	-20.75	-3.46	5.79	14.00	-8.21

Table 7-44. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	5.98	5.84	8.92	11.00	-2.08
	5200	40	ax (20MHz)	242T	MCS0	6.03	5.85	8.95	11.00	-2.05
	5240	48	ax (20MHz)	242T	MCS0	6.02	5.03	8.56	11.00	-2.44
	5190	38	ax (40MHz)	484T	MCS0	1.70	1.37	4.55	11.00	-6.45
	5230	46	ax (40MHz)	484T	MCS0	2.40	1.58	5.02	11.00	-5.98
	5210	42	ax (80MHz)	996T	MCS0	-1.20	-1.80	1.52	11.00	-9.48
Band 1/2A	5250	50	ax (160MHz L)	996T	MCS0	-6.73	-8.28	-4.42	11.00	-15.42
Band 2A	5260	52	ax (20MHz)	242T	MCS0	6.08	5.20	8.67	11.00	-2.33
	5280	56	ax (20MHz)	242T	MCS0	6.01	5.21	8.64	11.00	-2.36
	5320	64	ax (20MHz)	242T	MCS0	5.90	5.70	8.81	11.00	-2.19
	5270	54	ax (40MHz)	484T	MCS0	2.52	1.98	5.27	11.00	-5.73
	5310	62	ax (40MHz)	484T	MCS0	2.32	1.79	5.07	11.00	-5.93
	5290	58	ax (80MHz)	996T	MCS0	-1.28	-2.06	1.36	11.00	-9.64
Band 2C	5500	100	ax (20MHz)	242T	MCS0	5.83	5.13	8.50	11.00	-2.50
	5600	120	ax (20MHz)	242T	MCS0	6.36	5.41	8.92	11.00	-2.08
	5720	144	ax (20MHz)	242T	MCS0	6.86	5.85	9.39	11.00	-1.61
	5510	102	ax (40MHz)	484T	MCS0	2.29	1.34	4.85	11.00	-6.15
	5590	118	ax (40MHz)	484T	MCS0	2.41	1.54	5.01	11.00	-5.99
	5710	142	ax (40MHz)	484T	MCS0	2.27	1.19	4.77	11.00	-6.23
	5530	106	ax (80MHz)	996T	MCS0	-1.62	-1.93	1.24	11.00	-9.76
	5610	122	ax (80MHz)	996T	MCS0	-1.12	-2.80	1.13	11.00	-9.87
	5690	138	ax (80MHz)	996T	MCS0	-0.90	-2.80	1.26	11.00	-9.74
	5570	114	ax (160MHz L)	26T	MCS0	-6.33	-7.14	-3.71	11.00	-14.71

Table 7-45. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

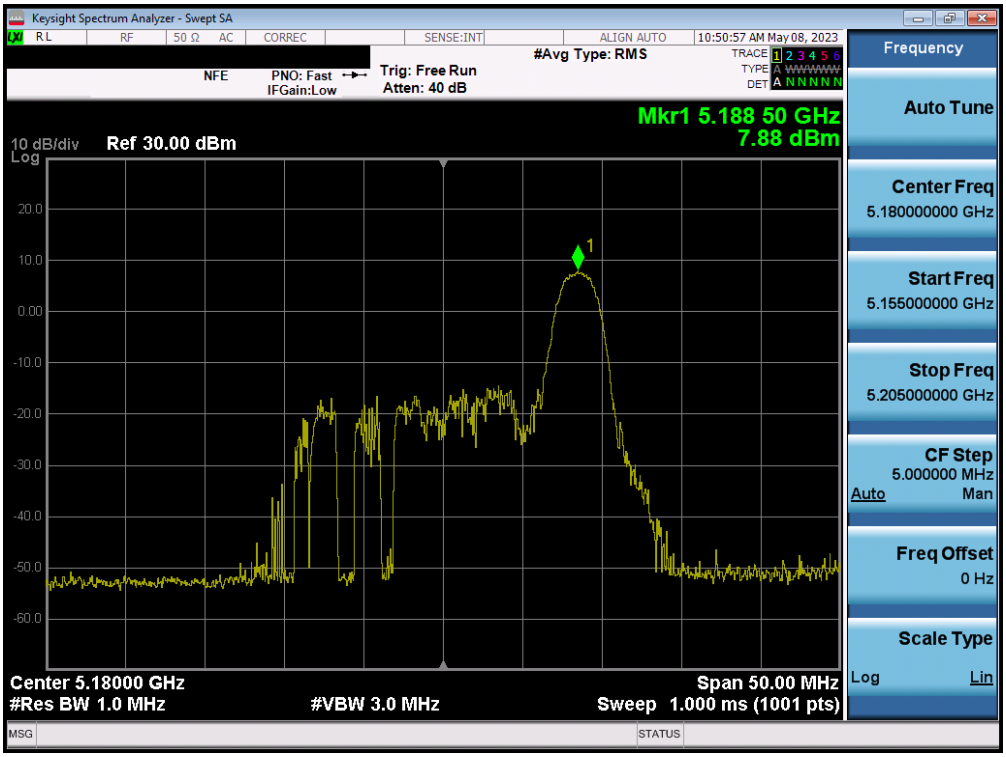
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	4.23	3.16	6.74	30.00	-23.26
	5785	157	ax (20MHz)	242T	MCS0	3.78	4.05	6.93	30.00	-23.07
	5825	165	ax (20MHz)	242T	MCS0	4.05	3.65	6.86	30.00	-23.14
	5755	151	ax (40MHz)	484T	MCS0	-0.83	-1.35	1.93	30.00	-28.07
	5795	159	ax (40MHz)	484T	MCS0	-0.86	-0.67	2.25	30.00	-27.75
	5775	155	ax (80MHz)	996T	MCS0	-4.66	-4.93	-1.78	30.00	-31.78

Table 7-46. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

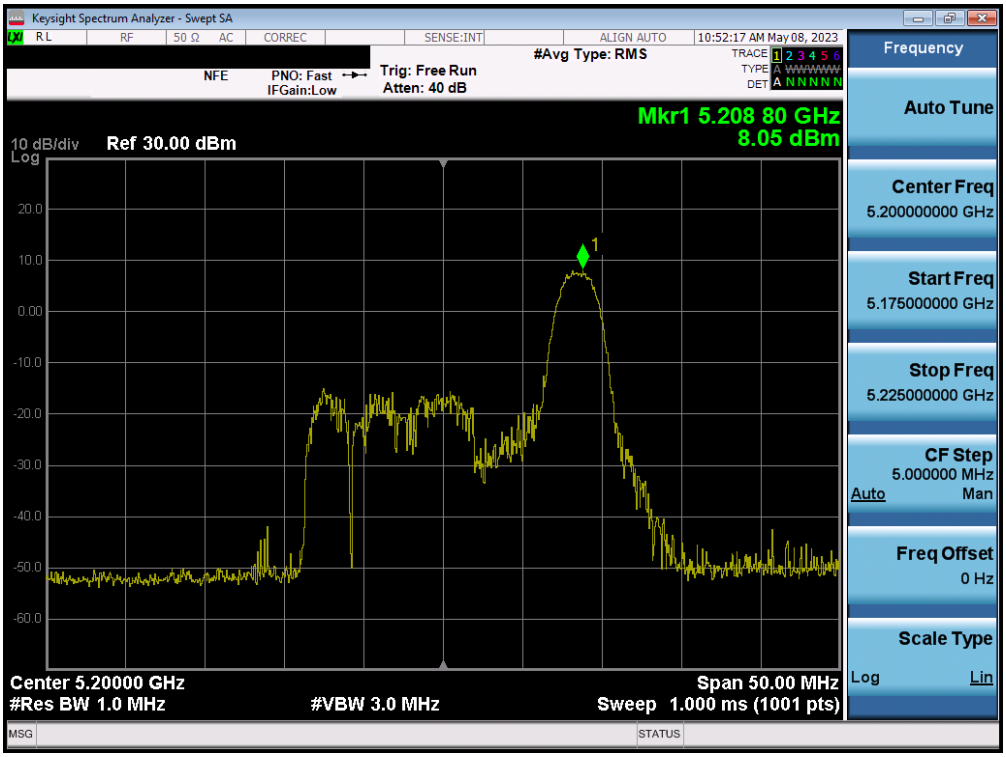
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	6.06	5.23	8.68	30.00	-21.32	-3.46	5.22	14.00	-8.78
Band 4	5865	173	ax (20MHz)	242T	MCS0	6.02	5.13	8.61			-3.46	5.15	14.00	-8.85
	5885	177	ax (20MHz)	242T	MCS0	6.17	5.00	8.64			-3.46	5.18	14.00	-8.82
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	1.94	1.23	4.61	30.00	-25.39	-3.46	1.15	14.00	-12.85
Band 4	5875	175	ax (40MHz)	484T	MCS0	1.99	1.00	4.54			-3.46	1.08	14.00	-12.92
Band 3/4	5855	171	ax (80MHz)	996T	MCS0	-1.87	-2.96	0.63	30.00	-29.37	-3.46	-2.83	14.00	-16.83
	5815	163	ax (160MHz)	996T	MCS0	-6.03	-6.16	-3.09	30.00	-33.09	-3.46	-6.54	14.00	-20.54

Table 7-47. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

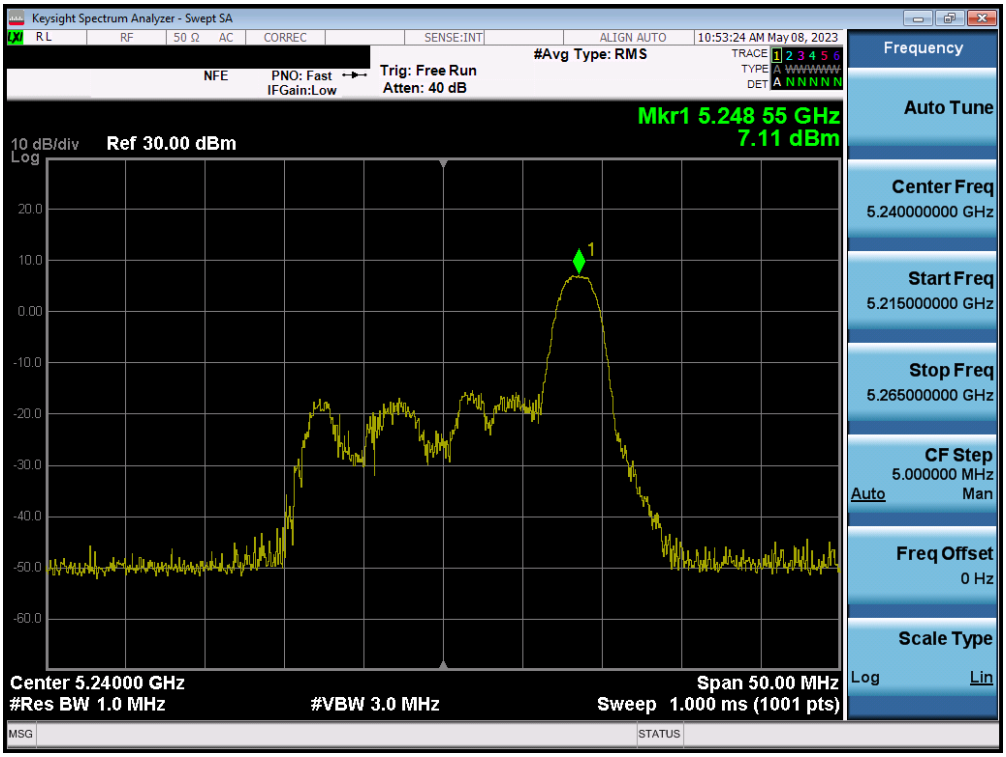
7.5.1 MIMO Antenna-1 Power Spectral Density Measurements



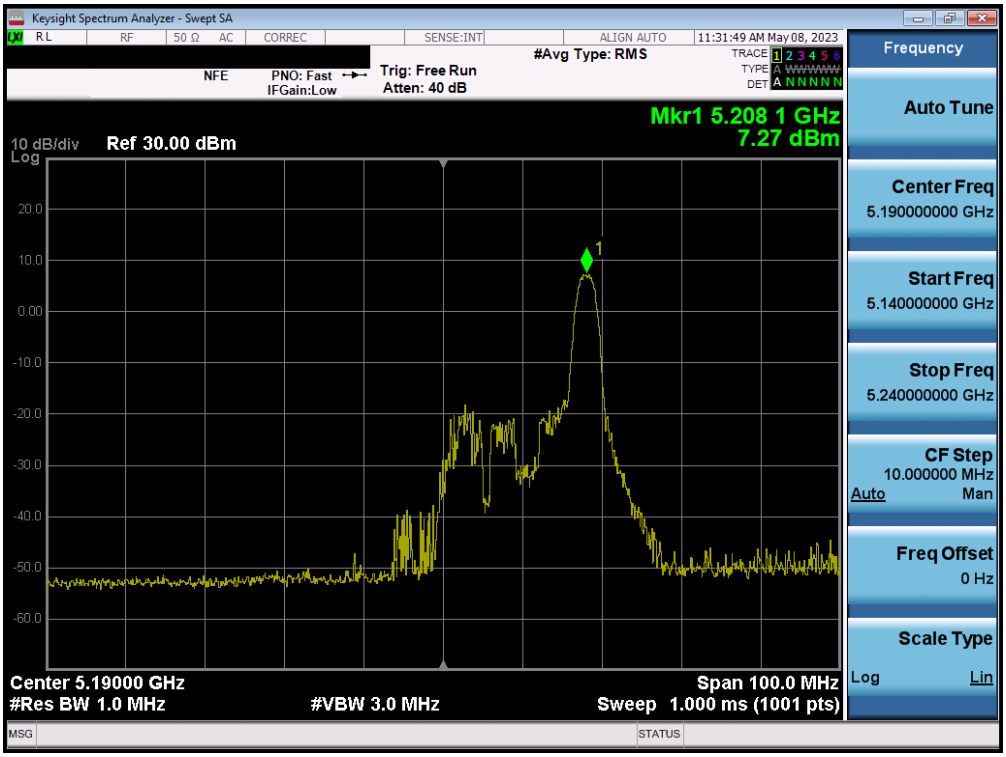
Plot 7-151. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



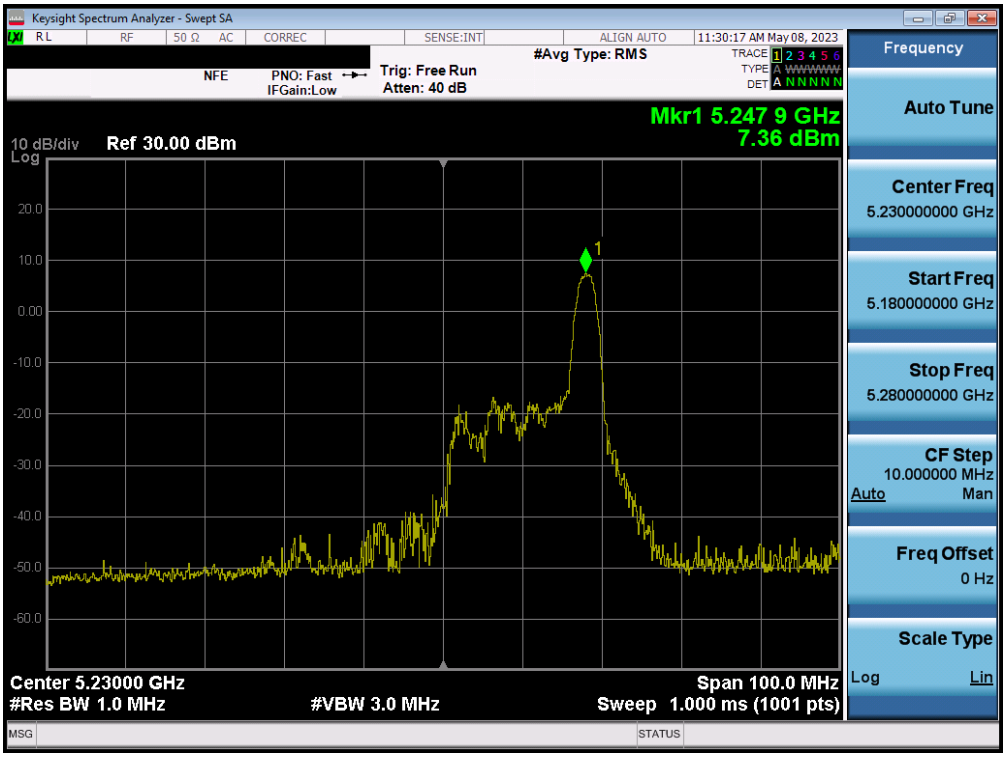
Plot 7-152. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)



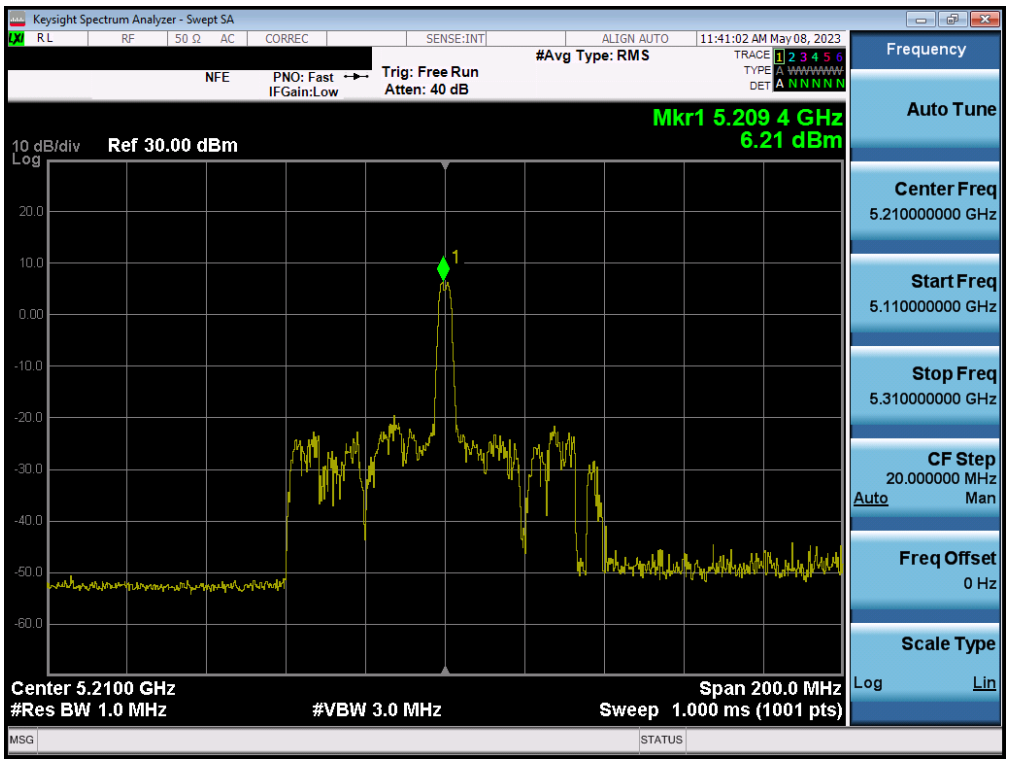
Plot 7-153. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



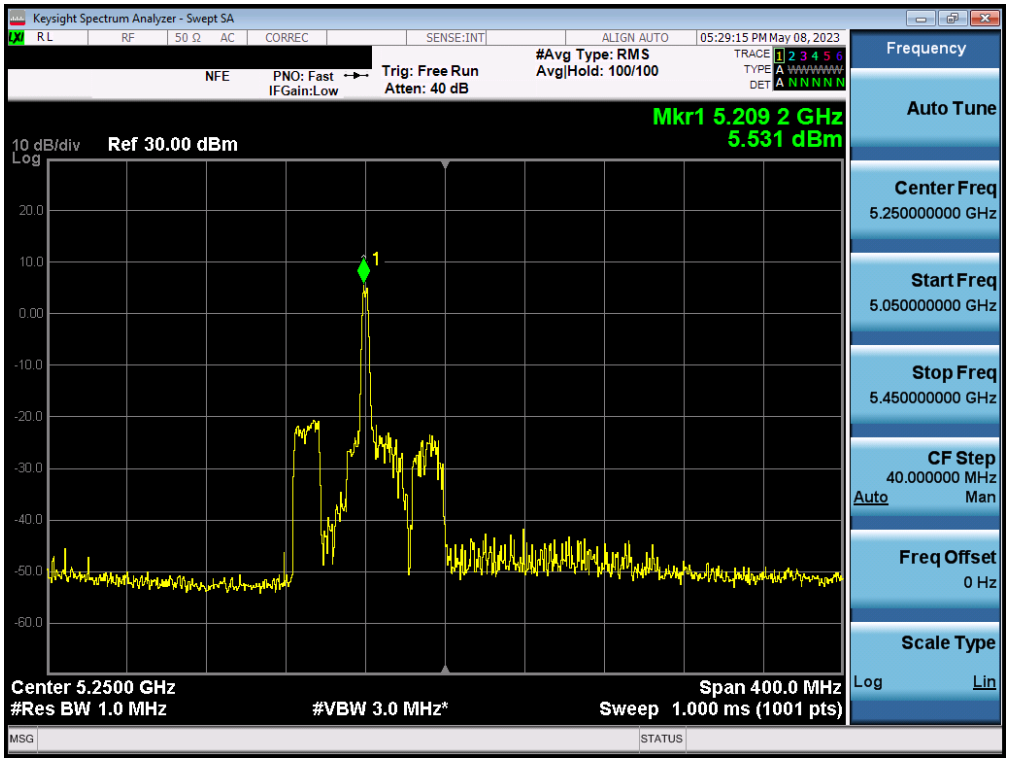
Plot 7-154. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)



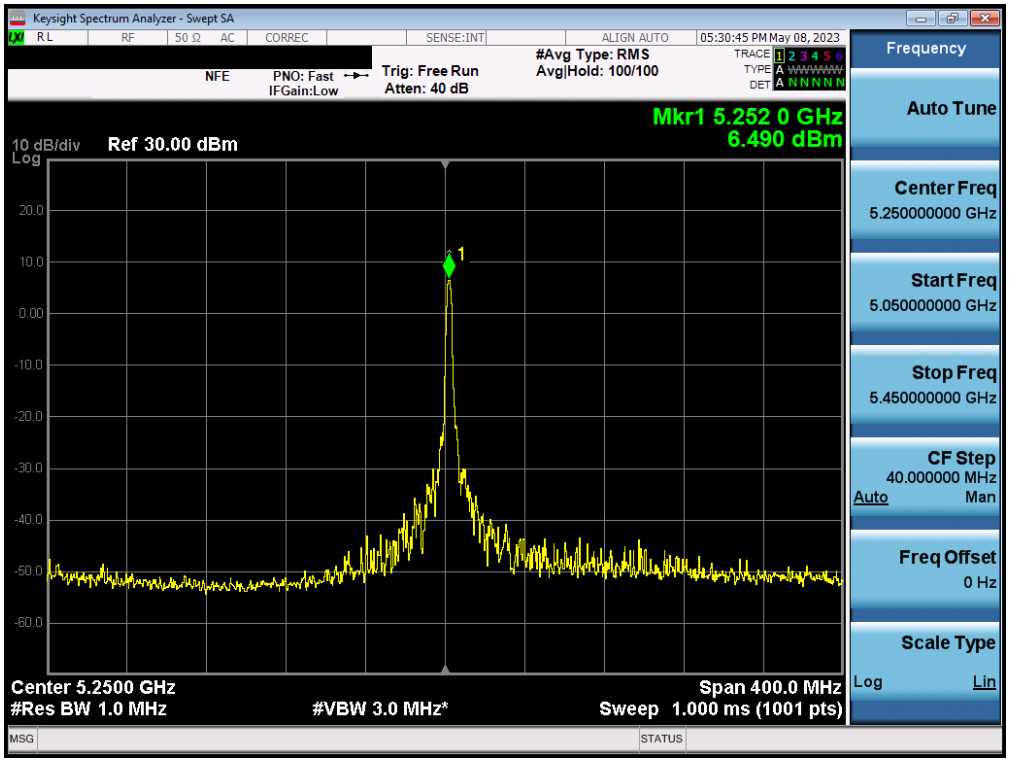
Plot 7-155. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



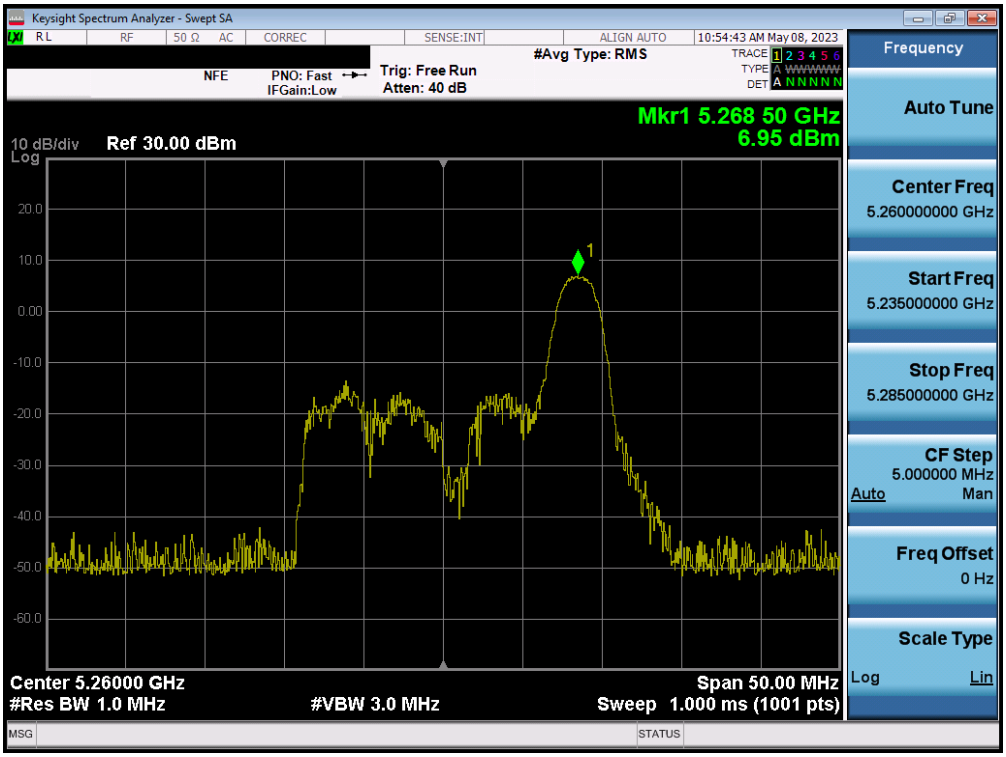
Plot 7-156. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)



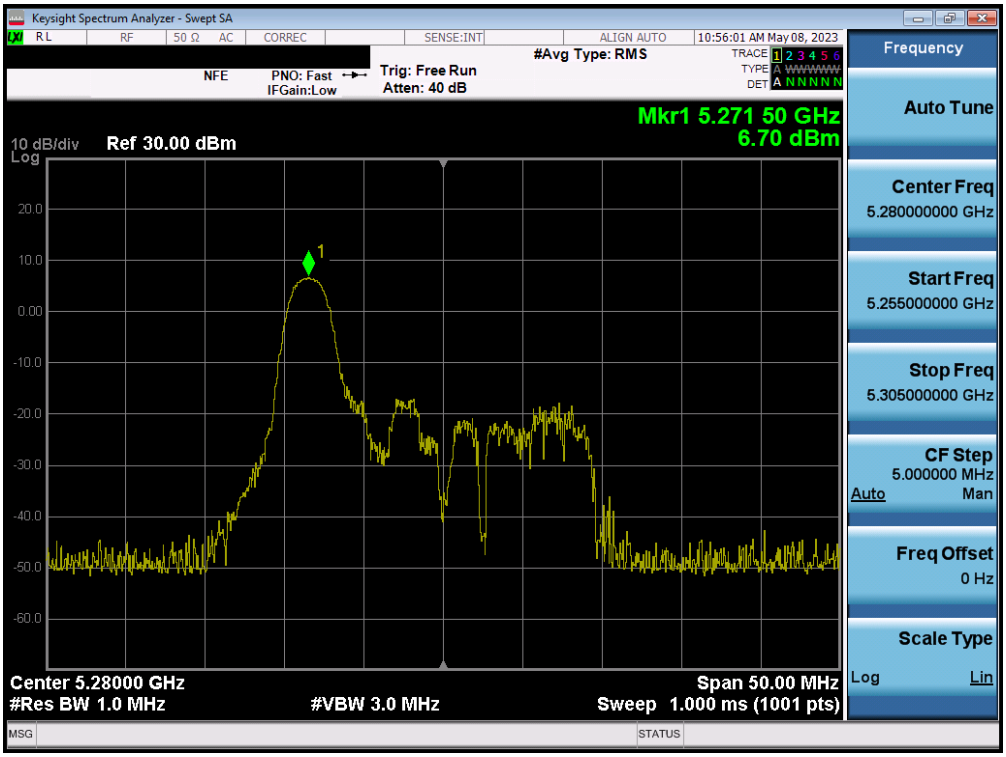
Plot 7-157. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)



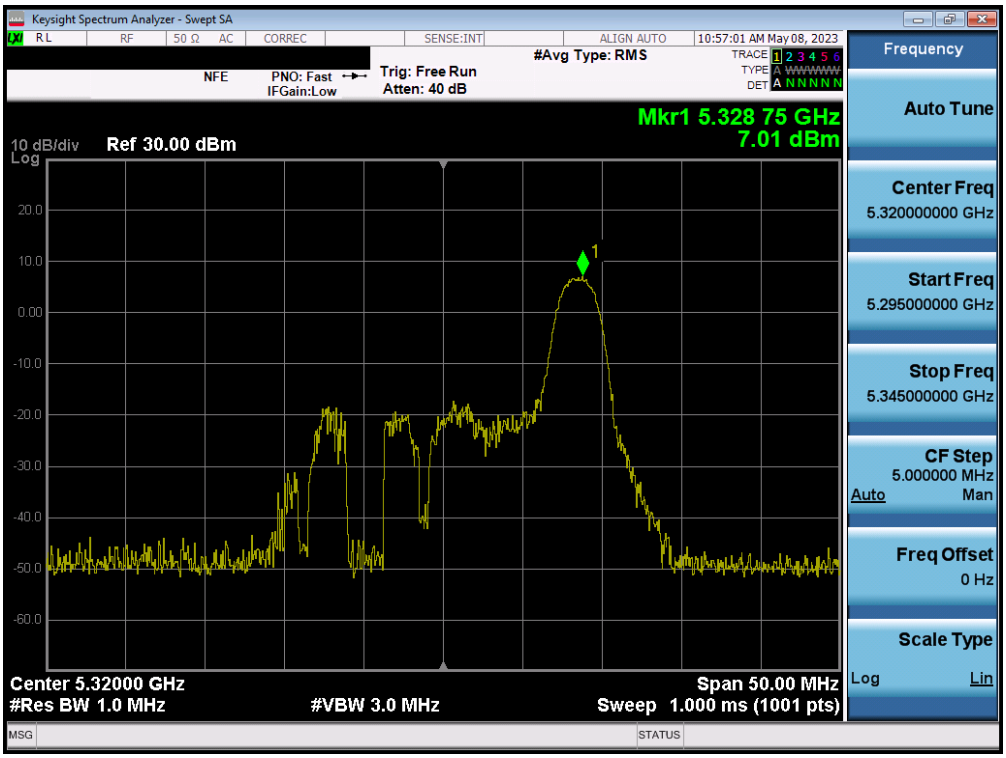
Plot 7-158. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)



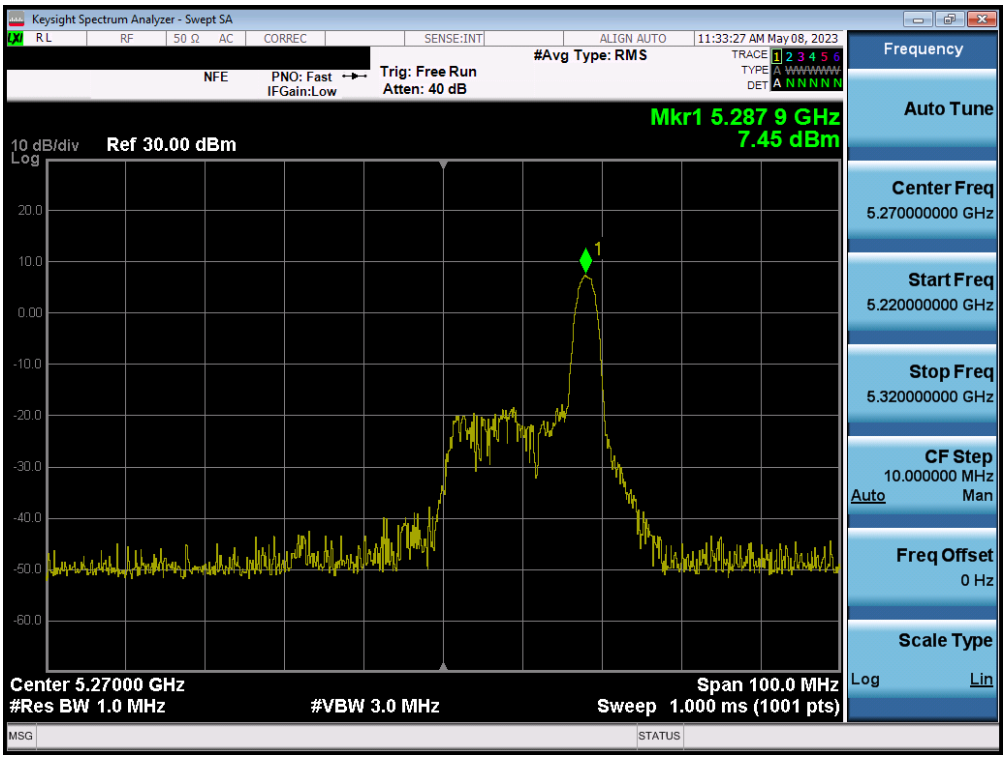
Plot 7-159. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



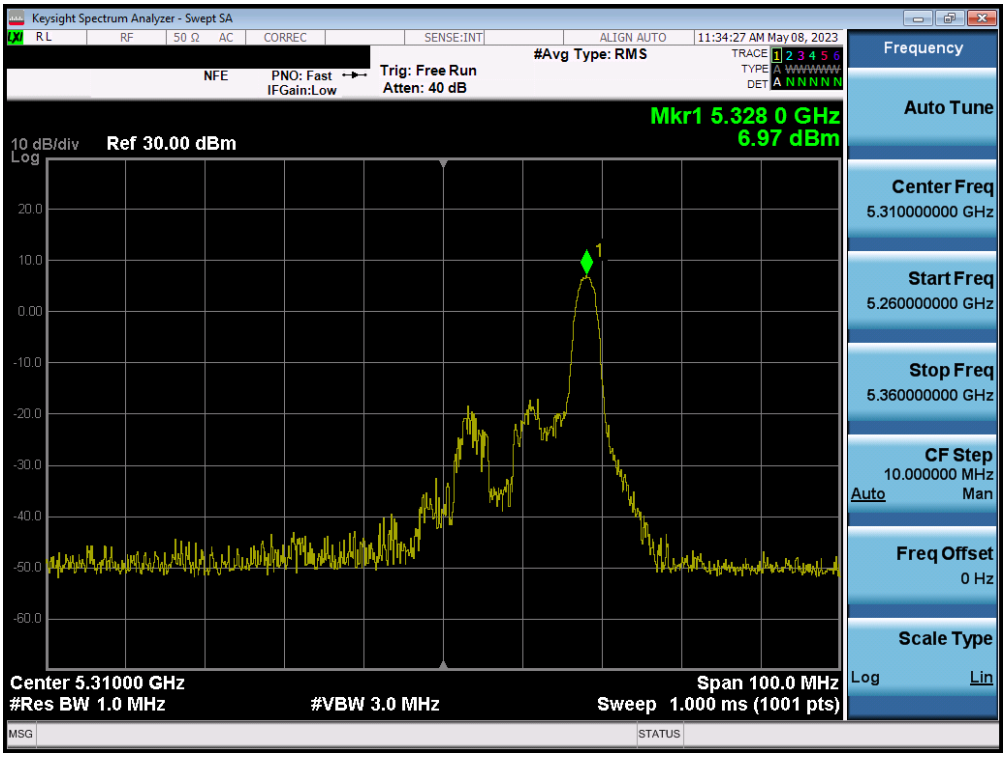
Plot 7-160. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)



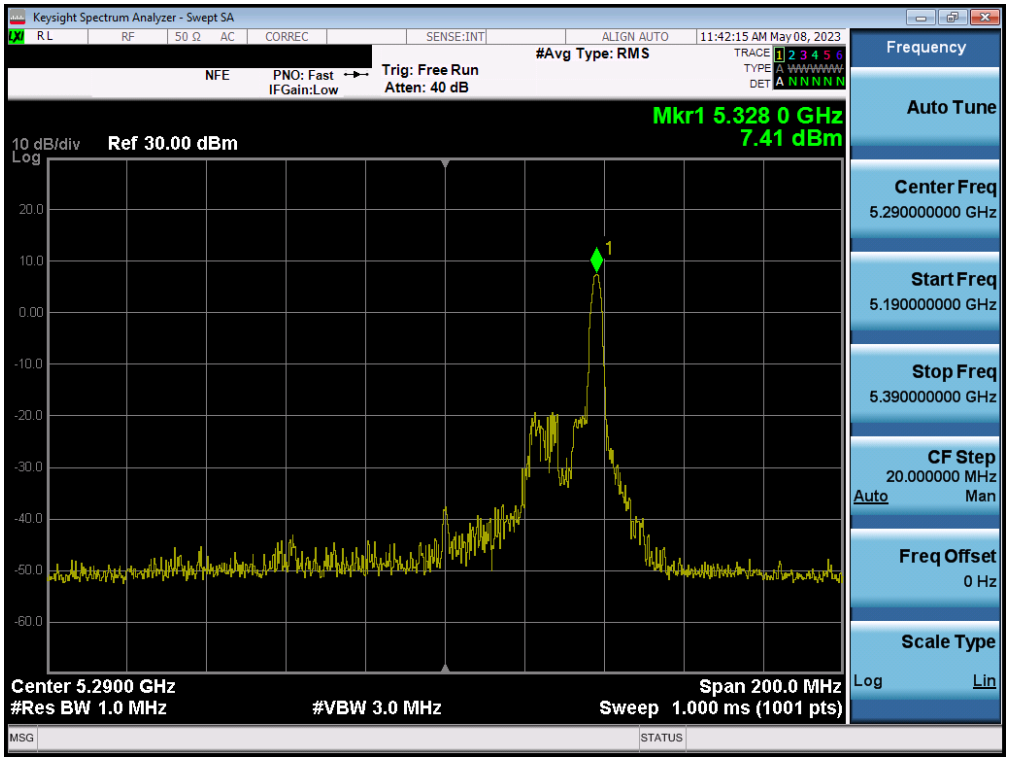
Plot 7-161. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



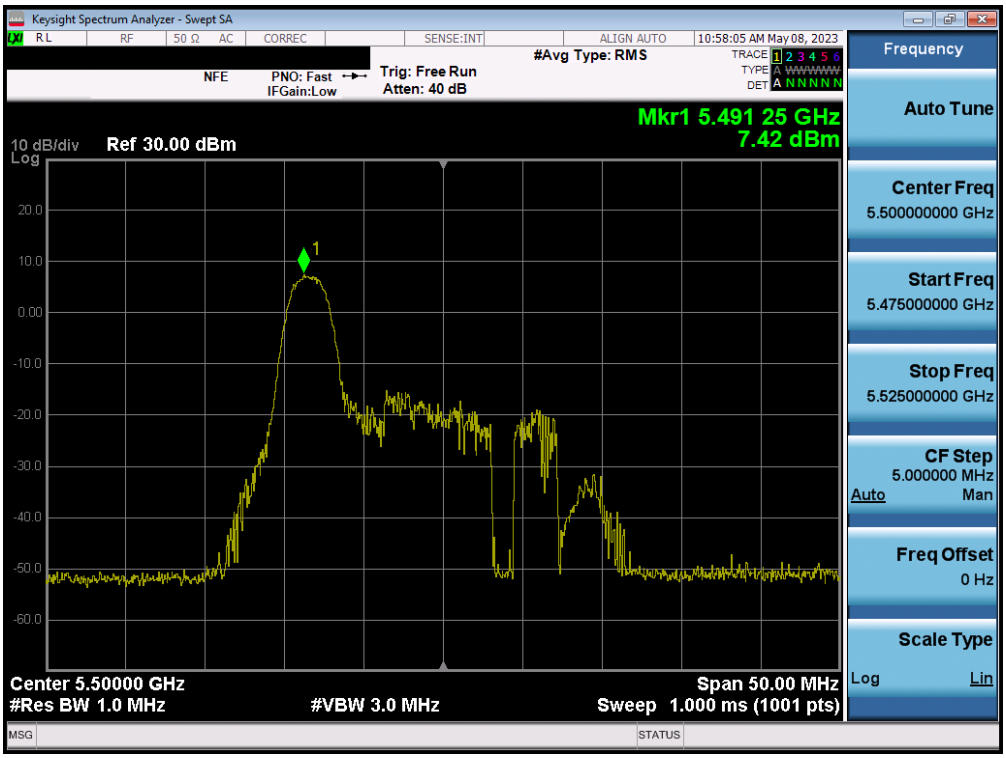
Plot 7-162. Powr Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)



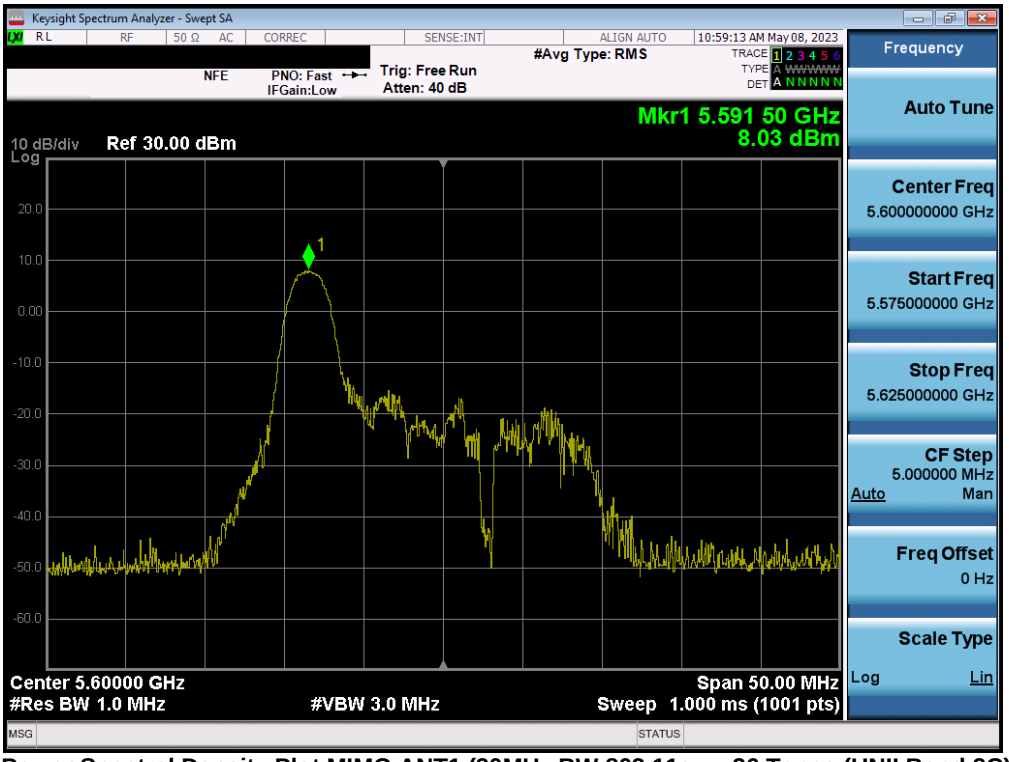
Plot 7-163. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



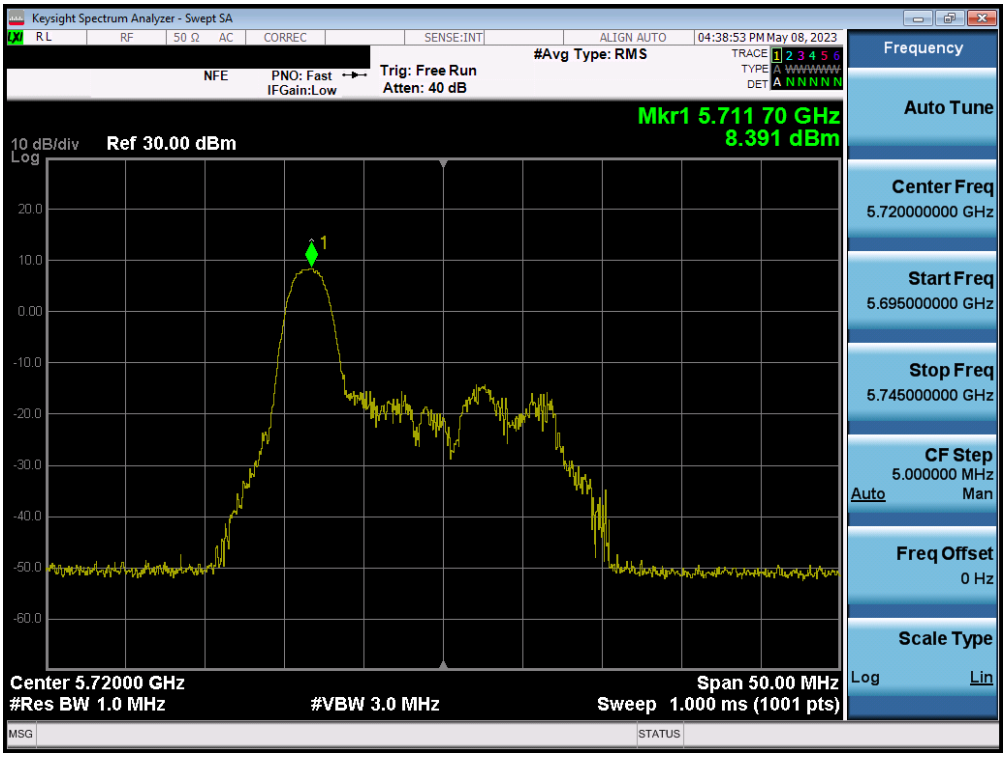
Plot 7-164. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)



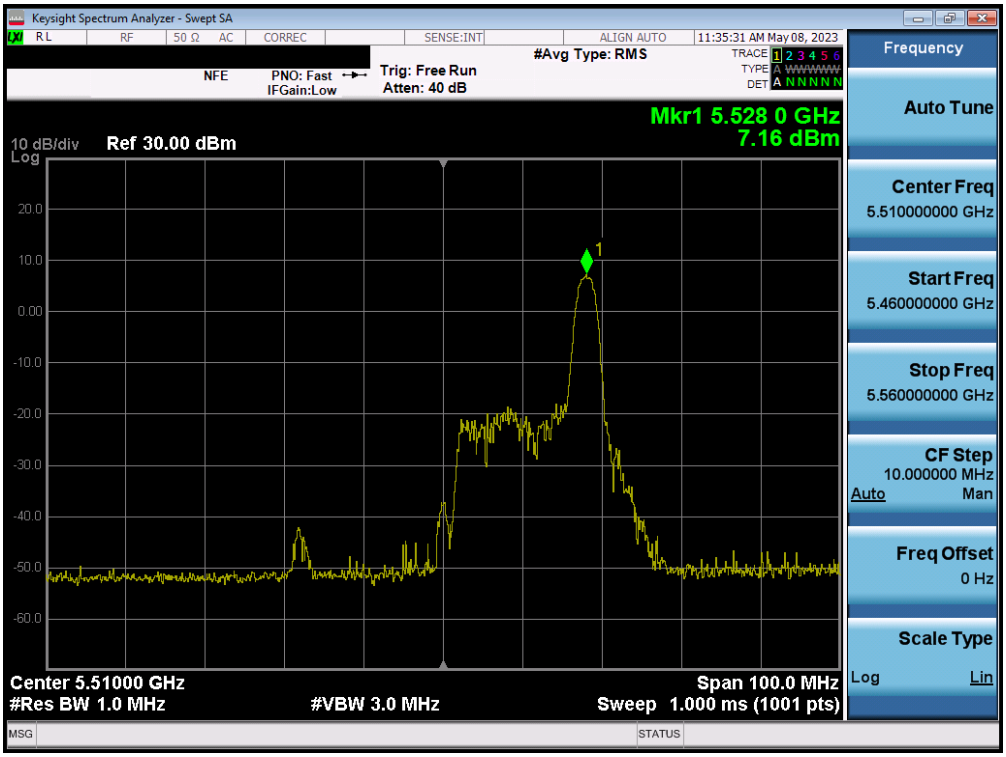
Plot 7-165. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)



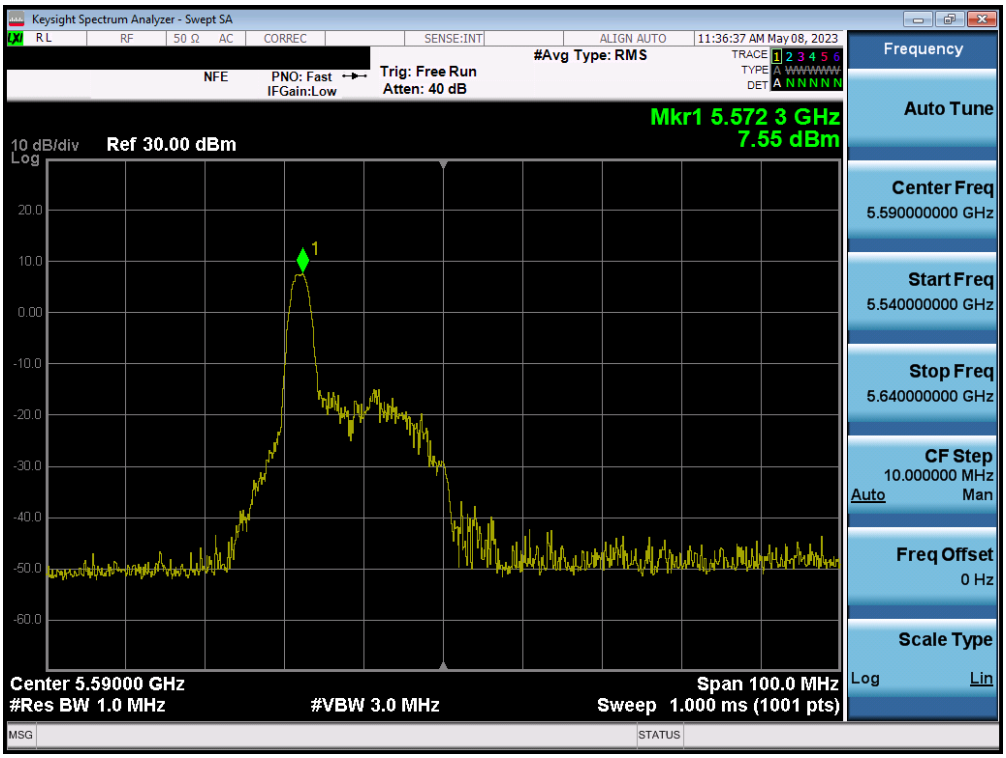
Plot 7-166. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)



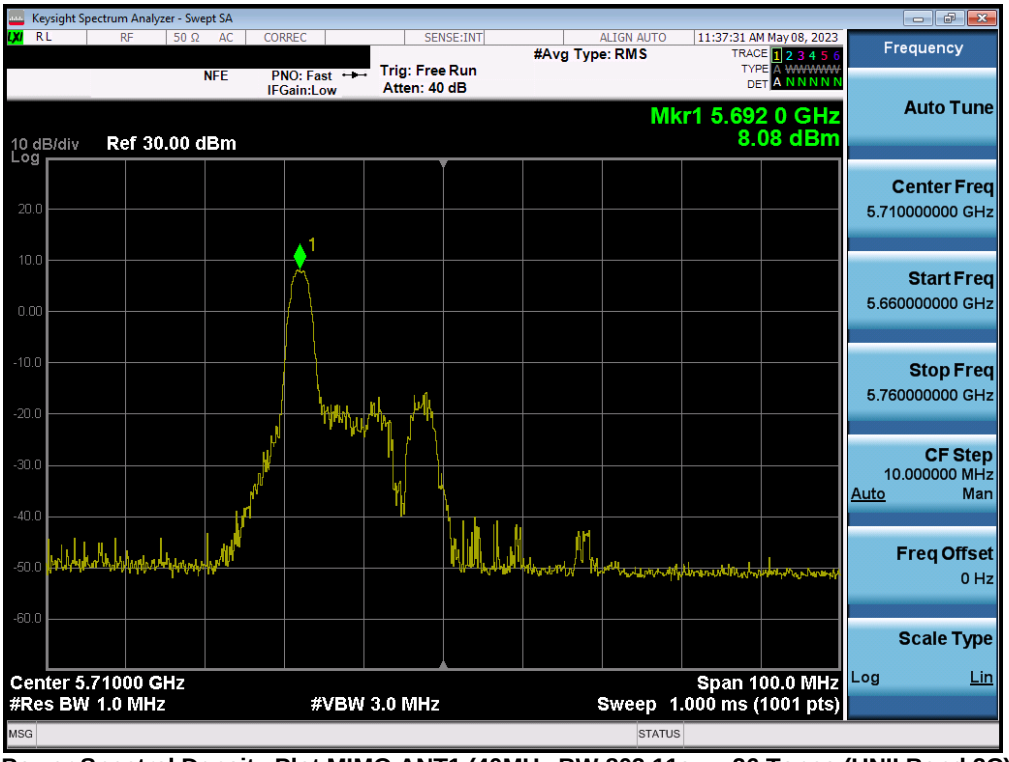
Plot 7-167. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



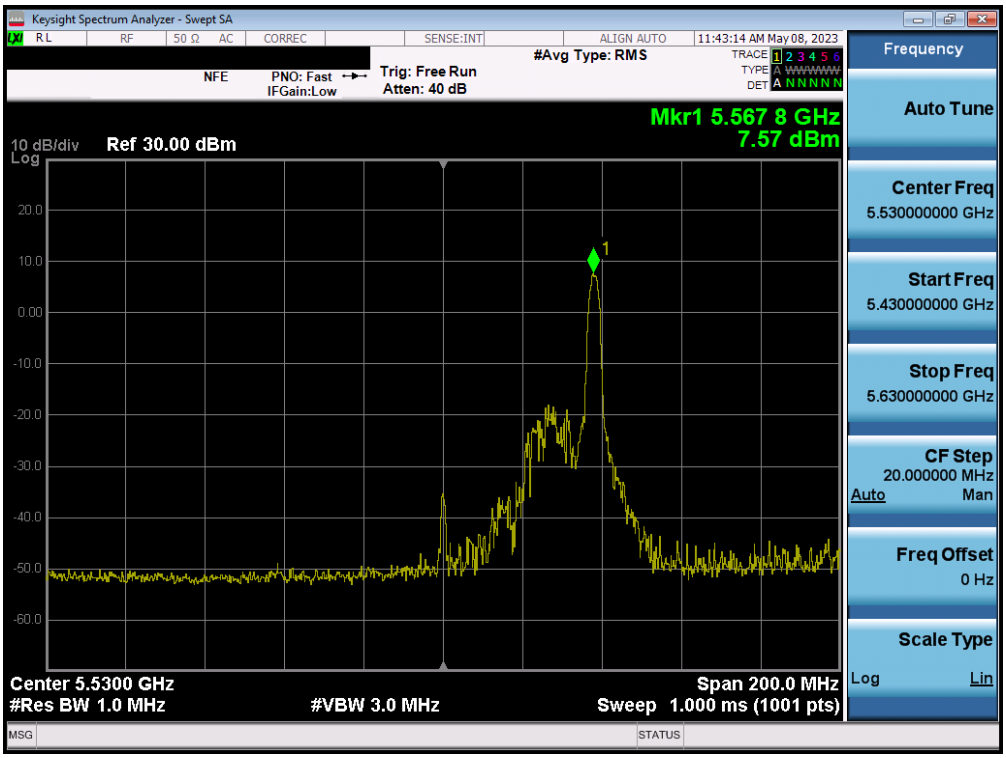
Plot 7-168. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)



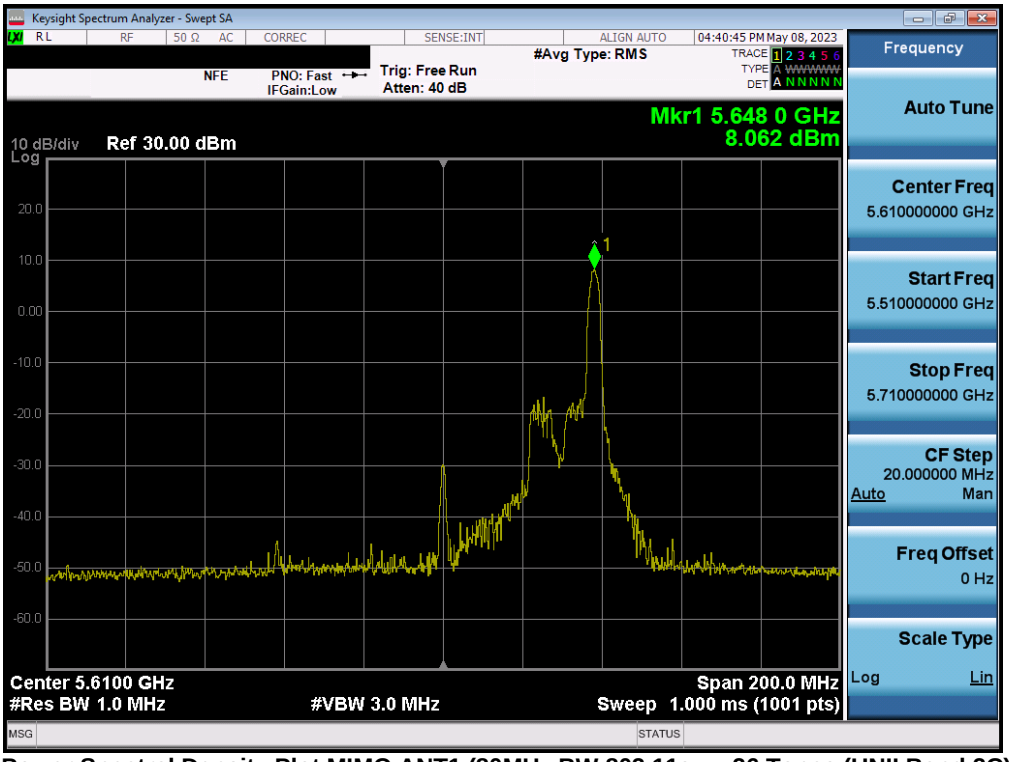
Plot 7-169. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



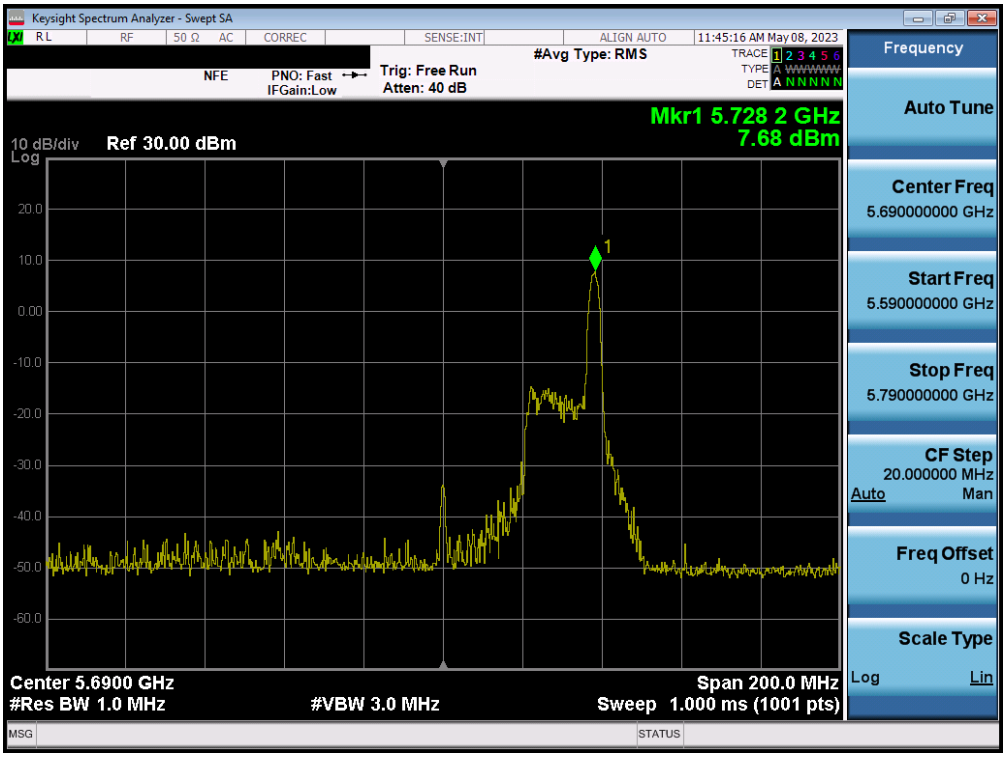
Plot 7-170. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)



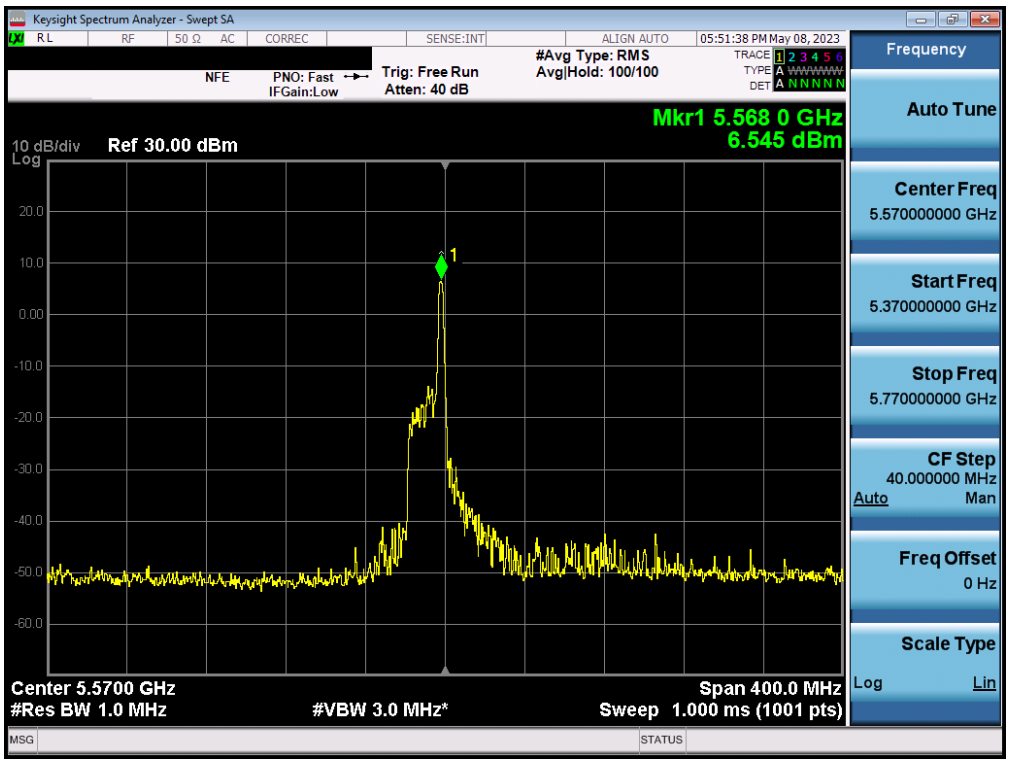
Plot 7-171. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



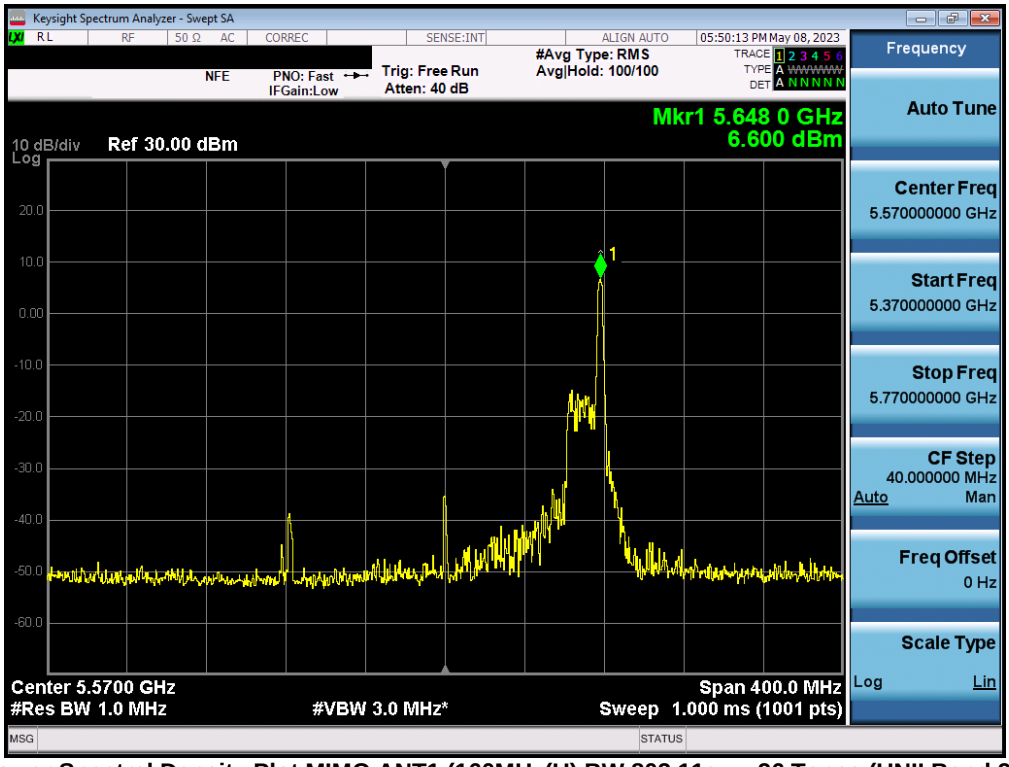
Plot 7-172. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)



Plot 7-173. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

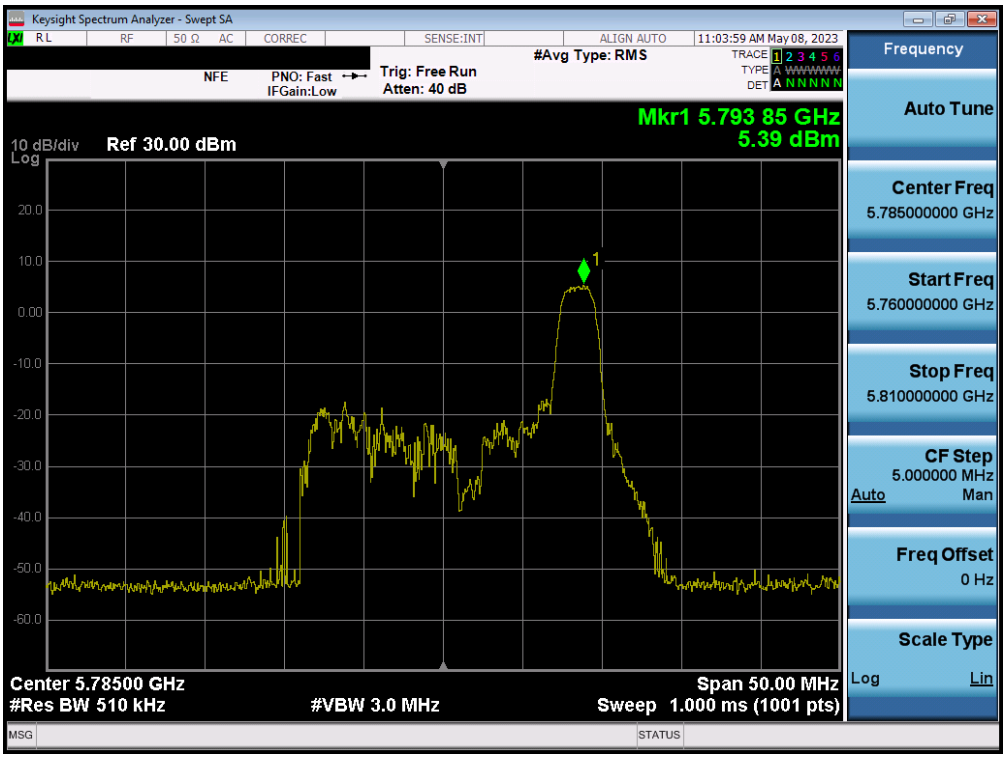


Plot 7-174. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 2 Tones (UNII Band 2C) – Ch. 114)

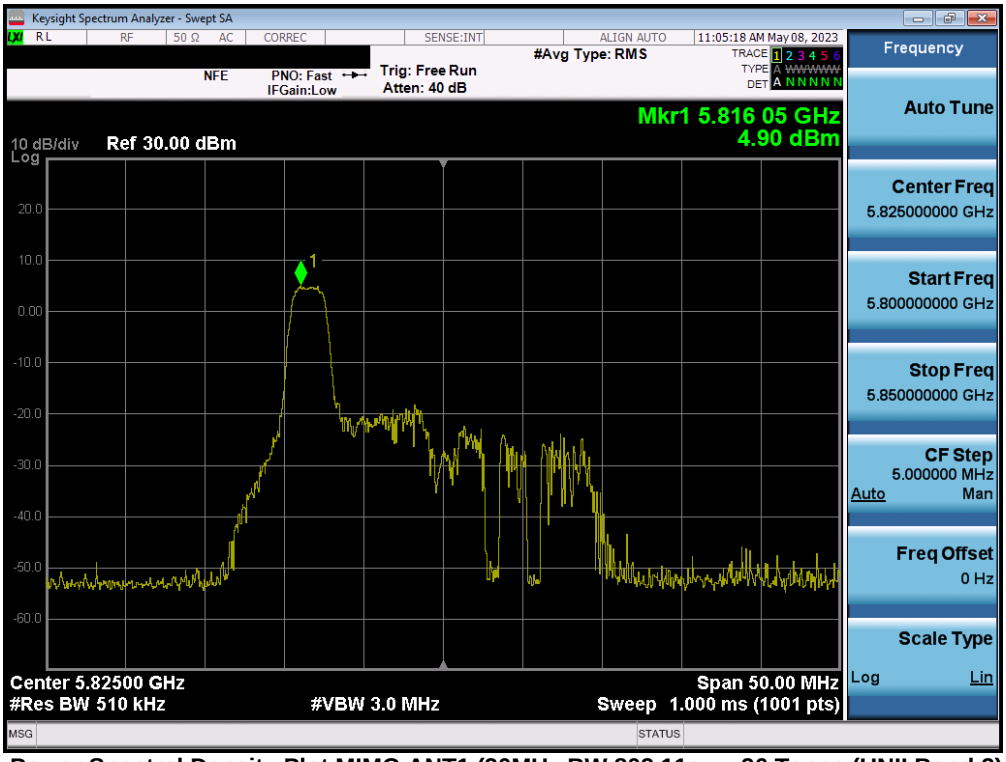


Plot 7-175. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

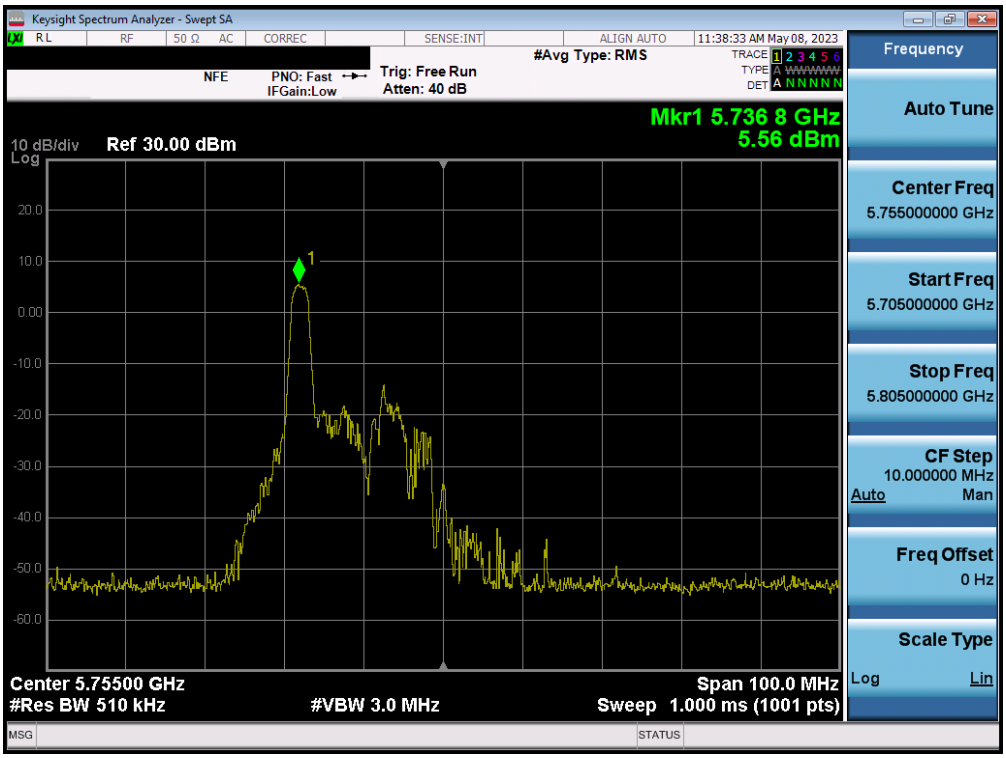
Plot 7-176. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)



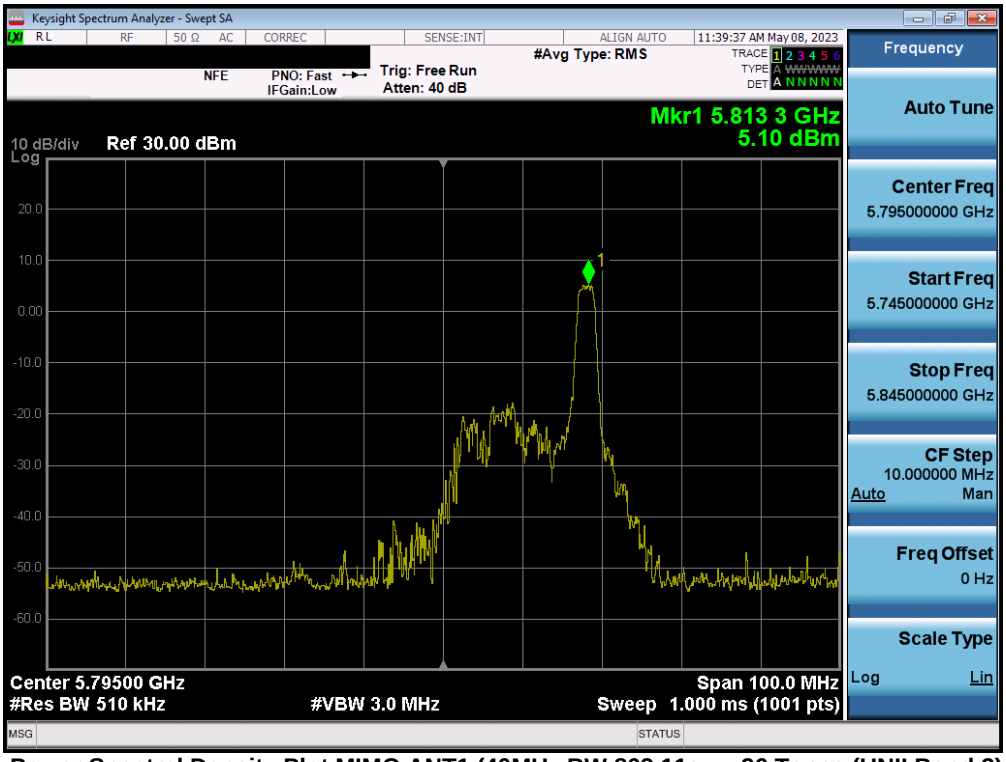
Plot 7-177. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



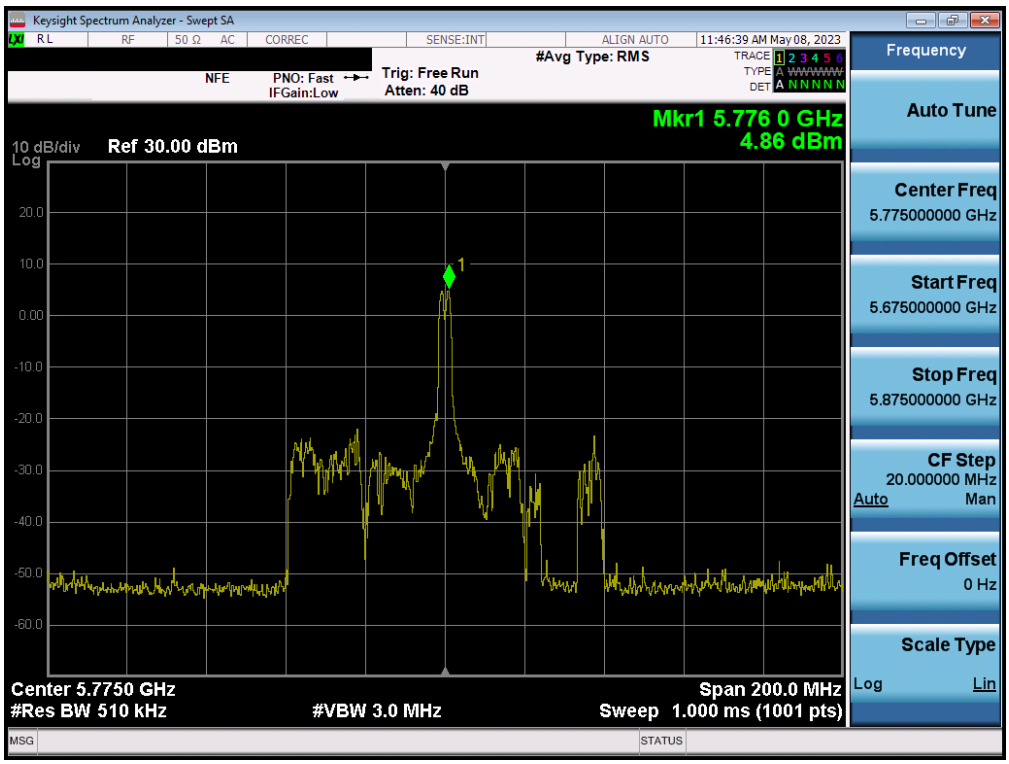
Plot 7-178. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



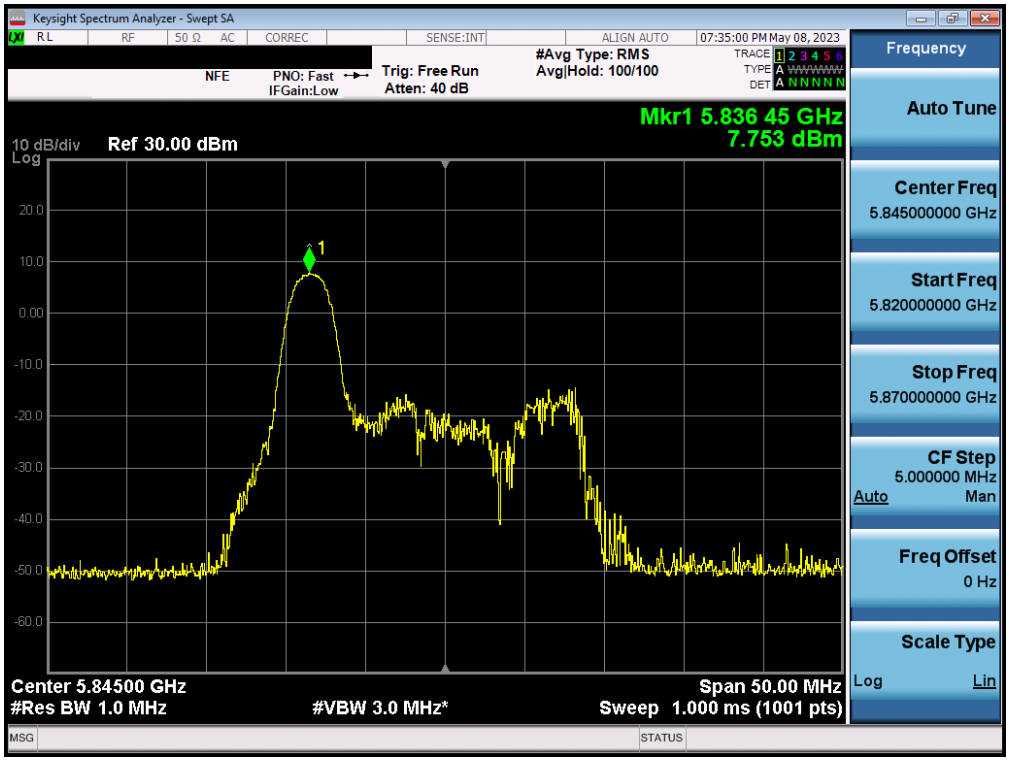
Plot 7-179. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



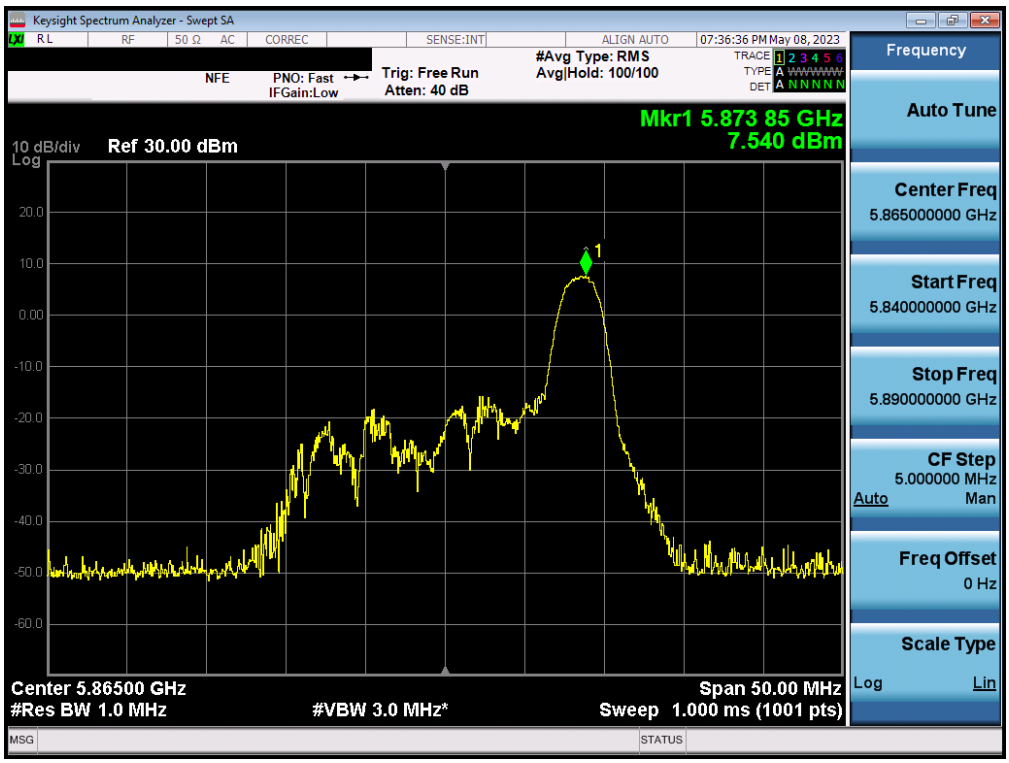
Plot 7-180. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



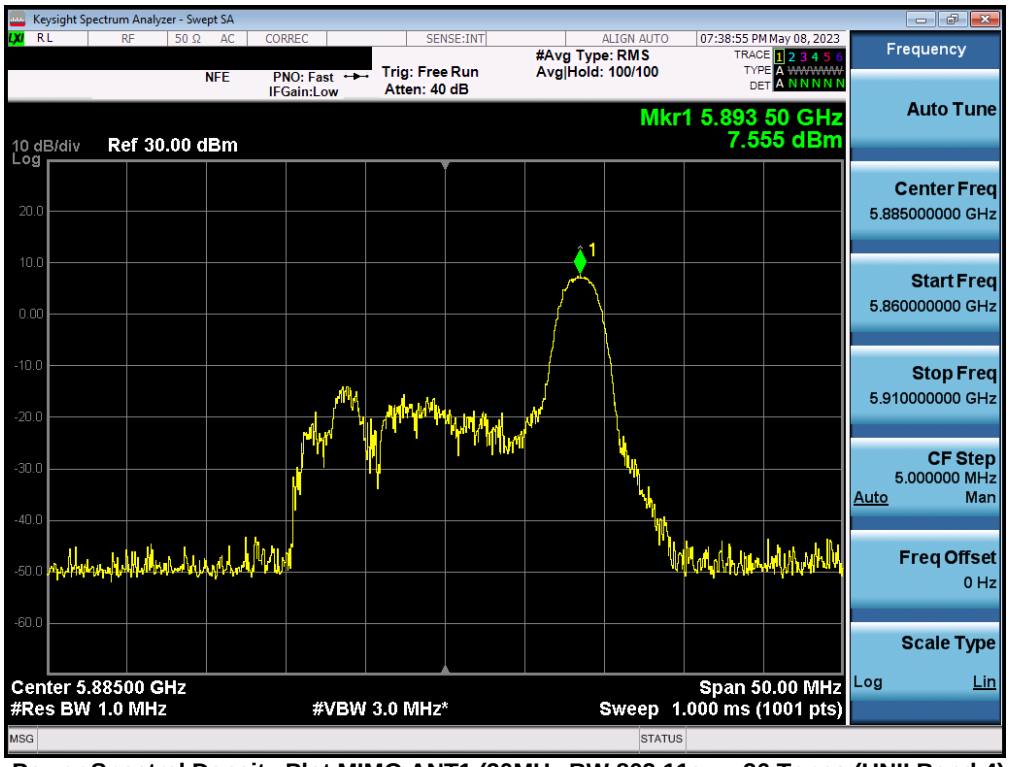
Plot 7-181. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)



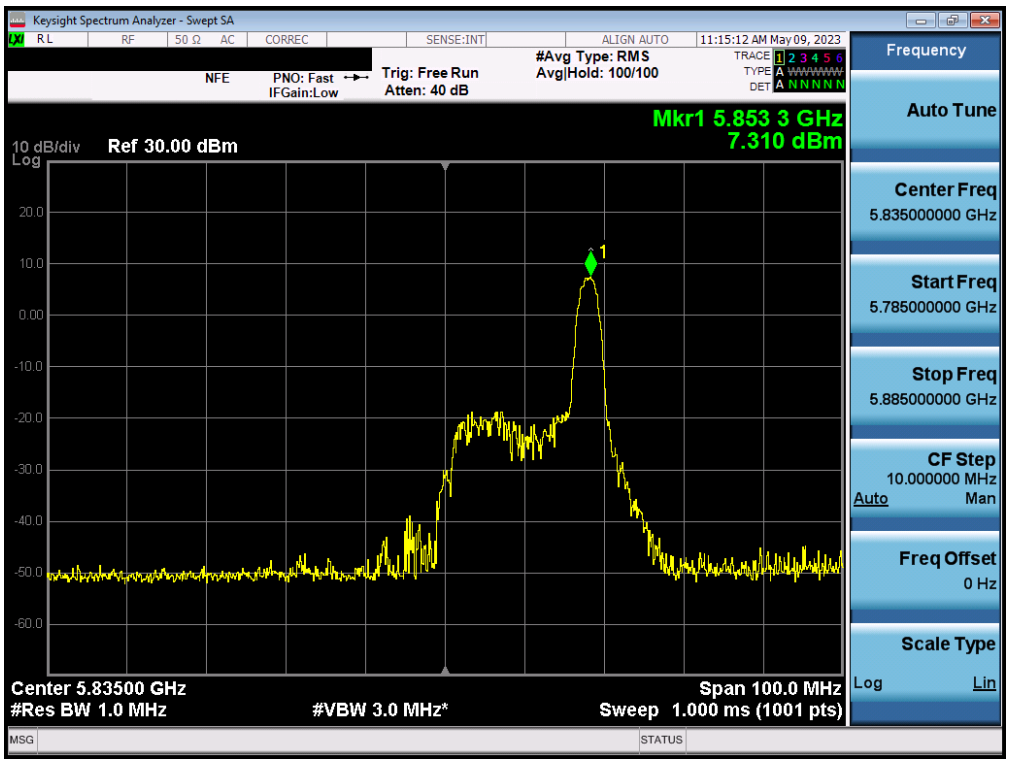
Plot 7-182. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 169)



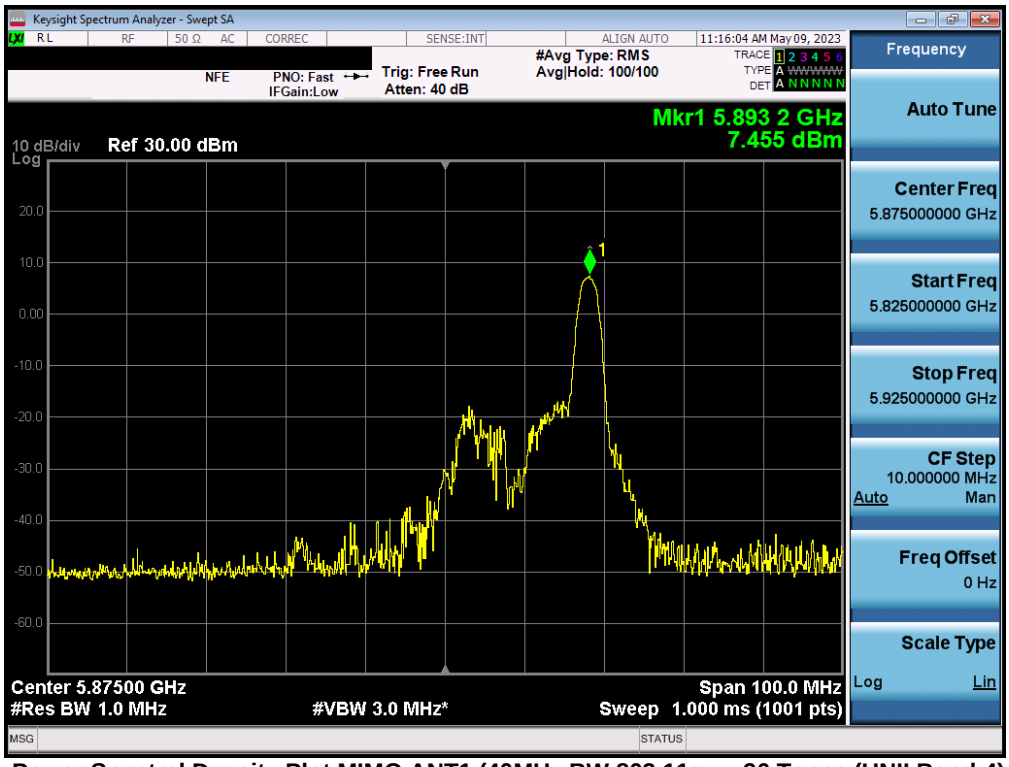
Plot 7-183. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 173)



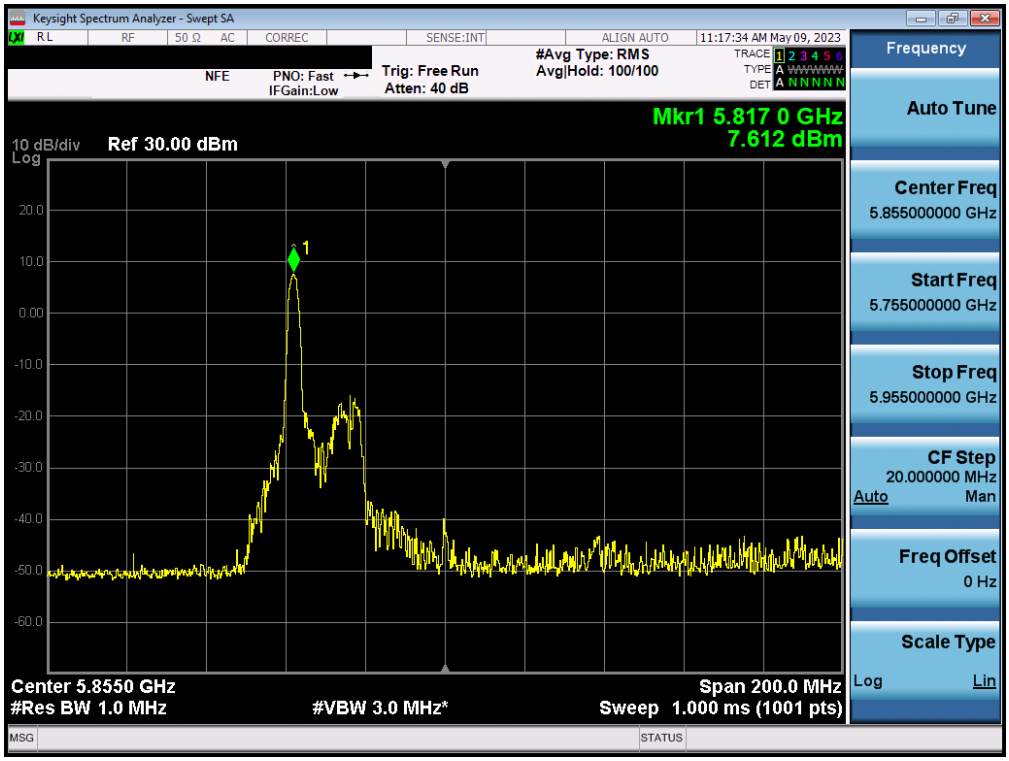
Plot 7-184. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 177)



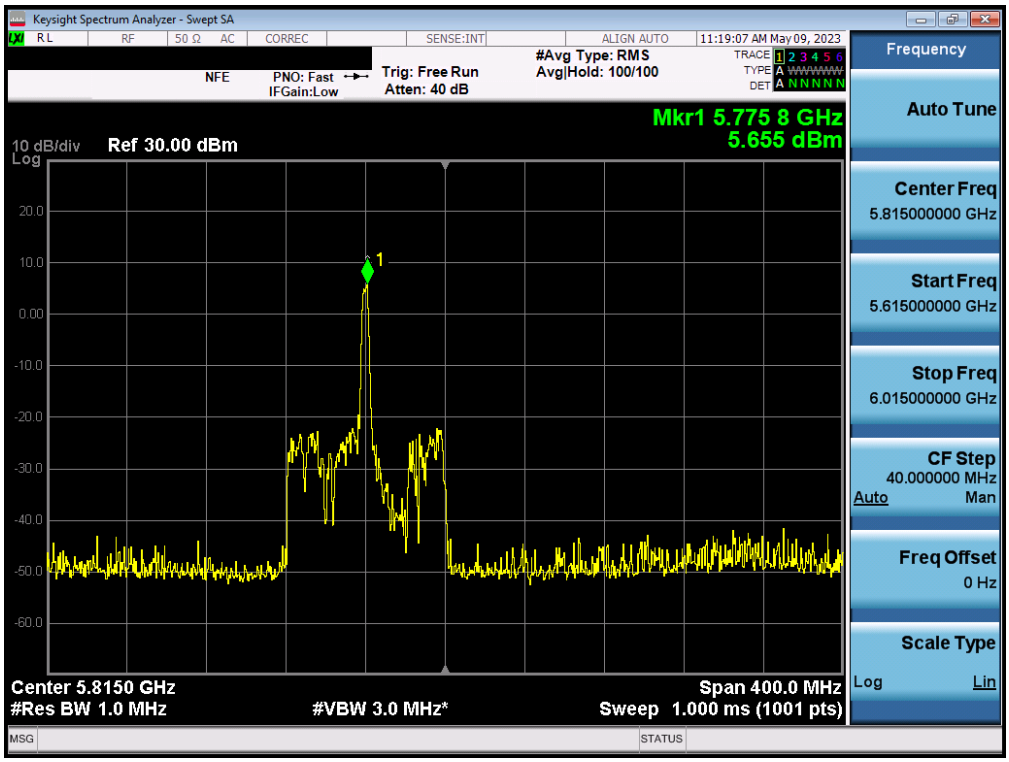
Plot 7-185. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 167)



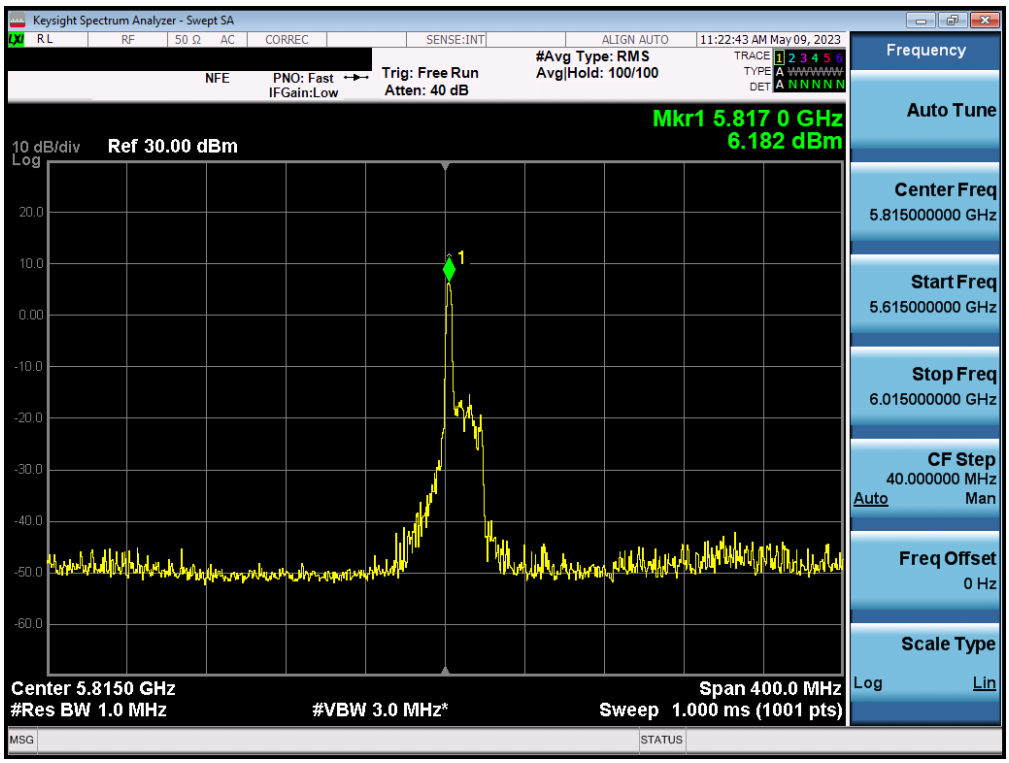
Plot 7-186. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 4) – Ch. 175)



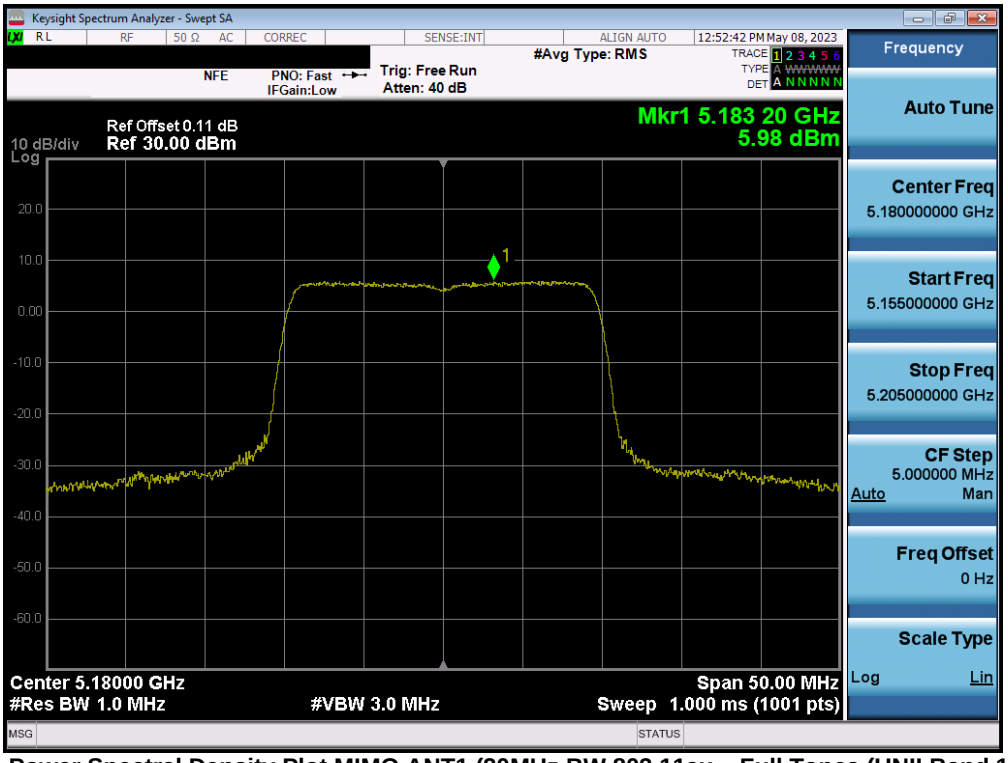
Plot 7-187. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 171)



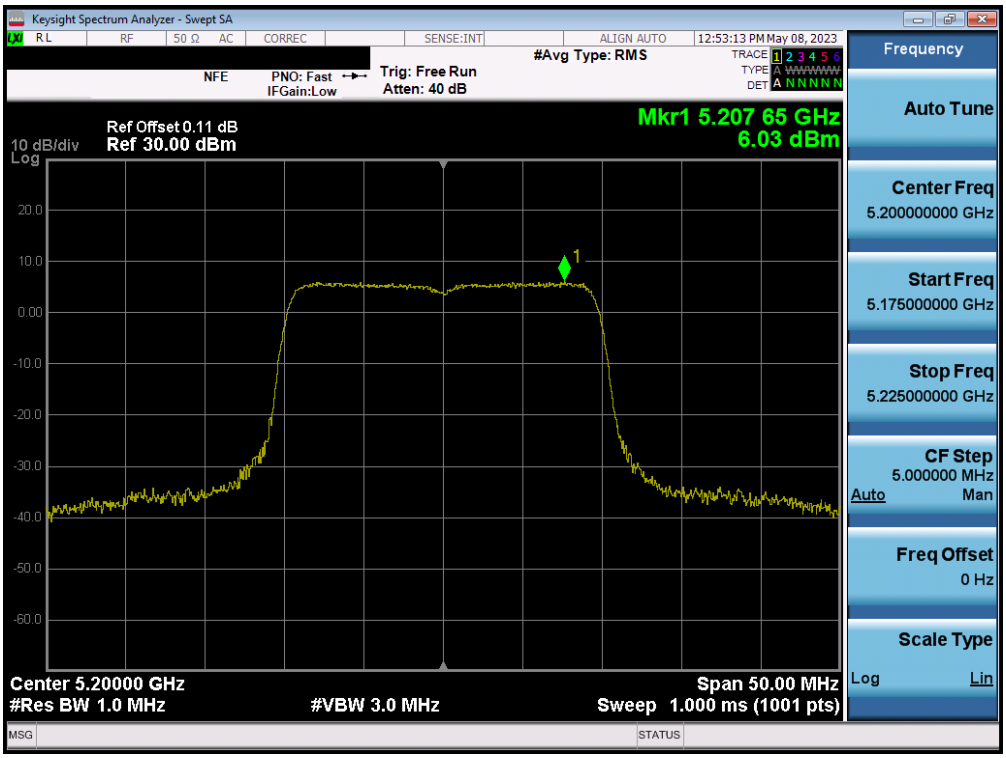
Plot 7-188. Power Spectral Density Plot MIMO ANT1 (160MHz(L) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



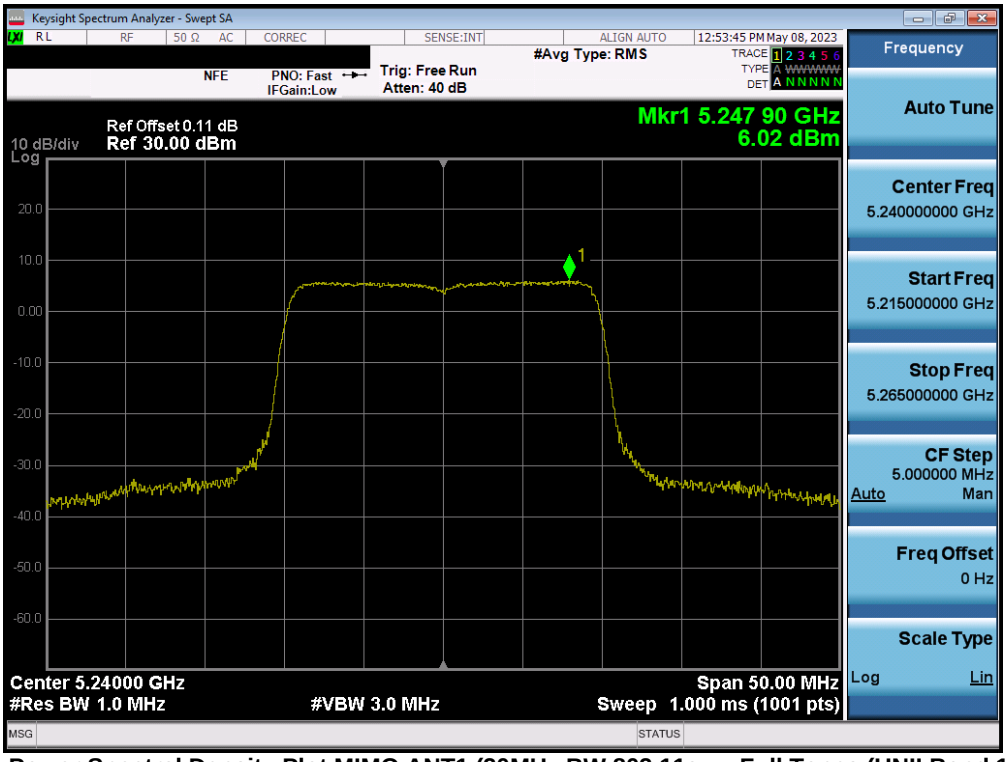
Plot 7-189. Power Spectral Density Plot MIMO ANT1 (160MHz(U) BW 802.11ax – 26 Tones (UNII Band 3/4) – Ch. 163)



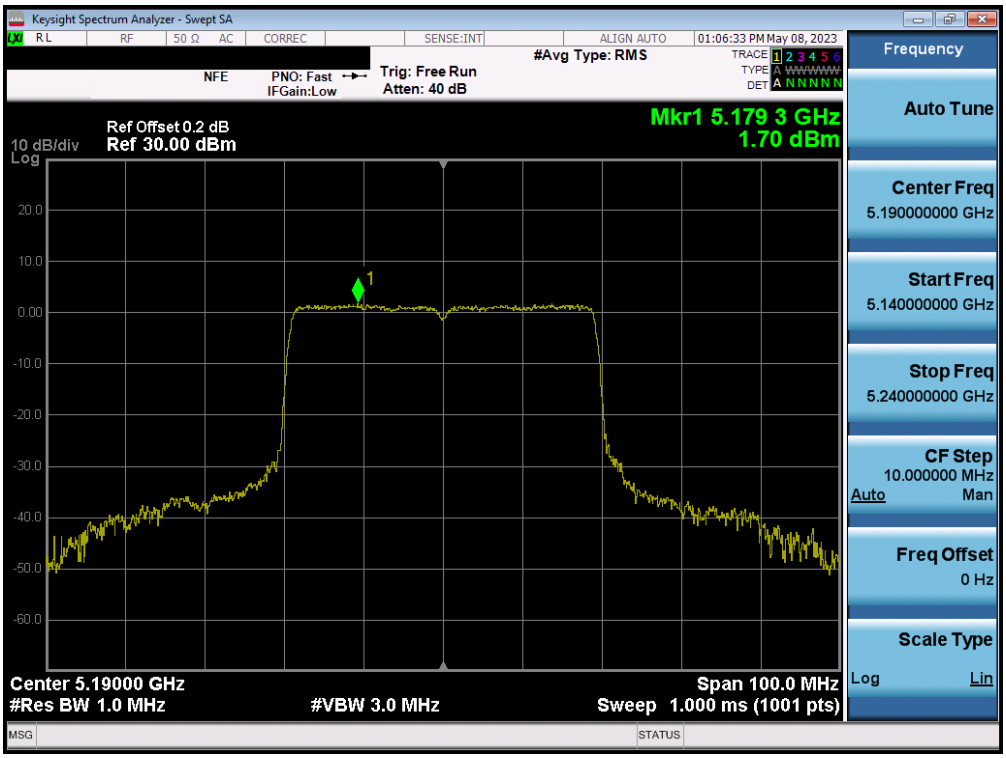
Plot 7-190. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)



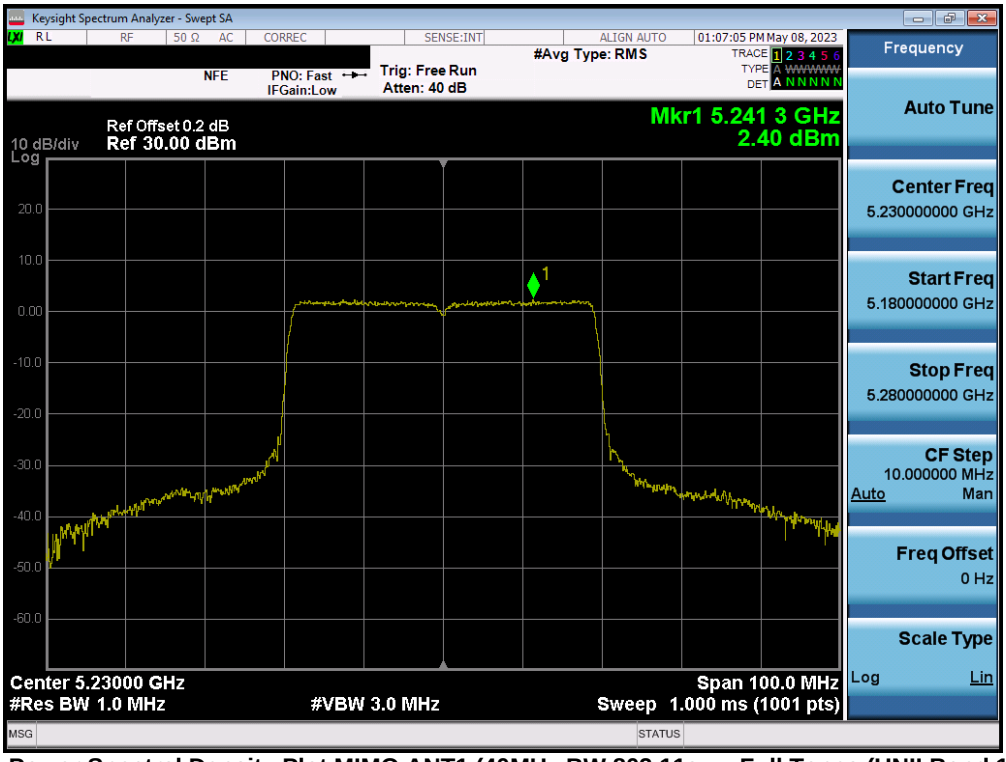
Plot 7-191. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)



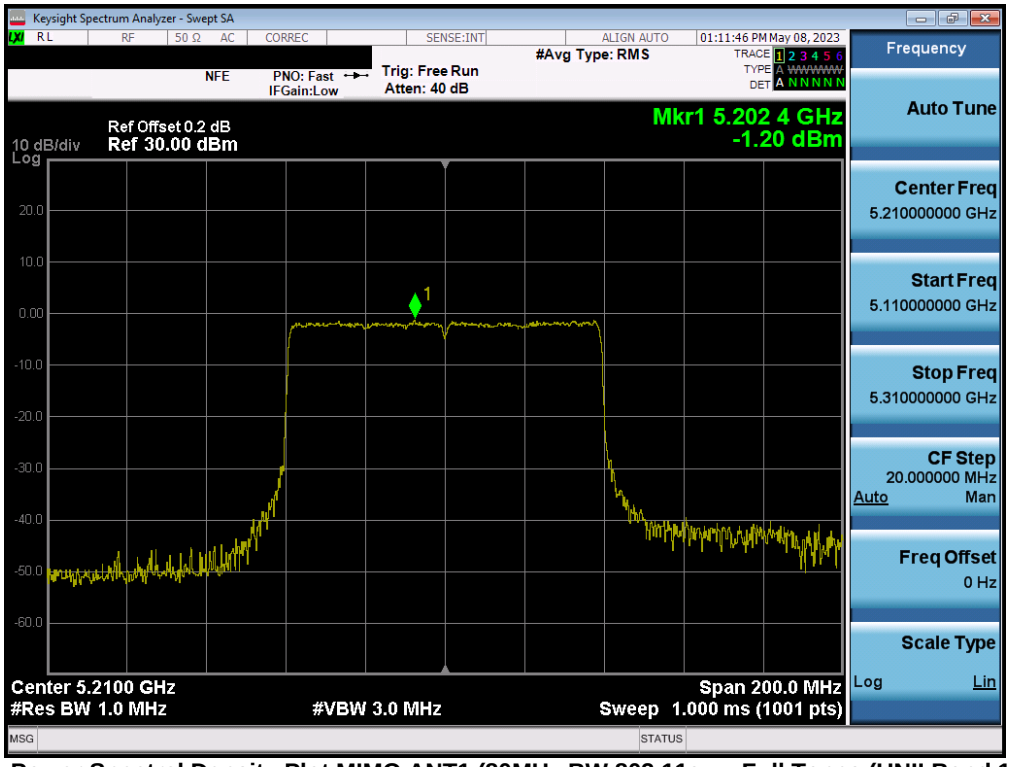
Plot 7-192. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)



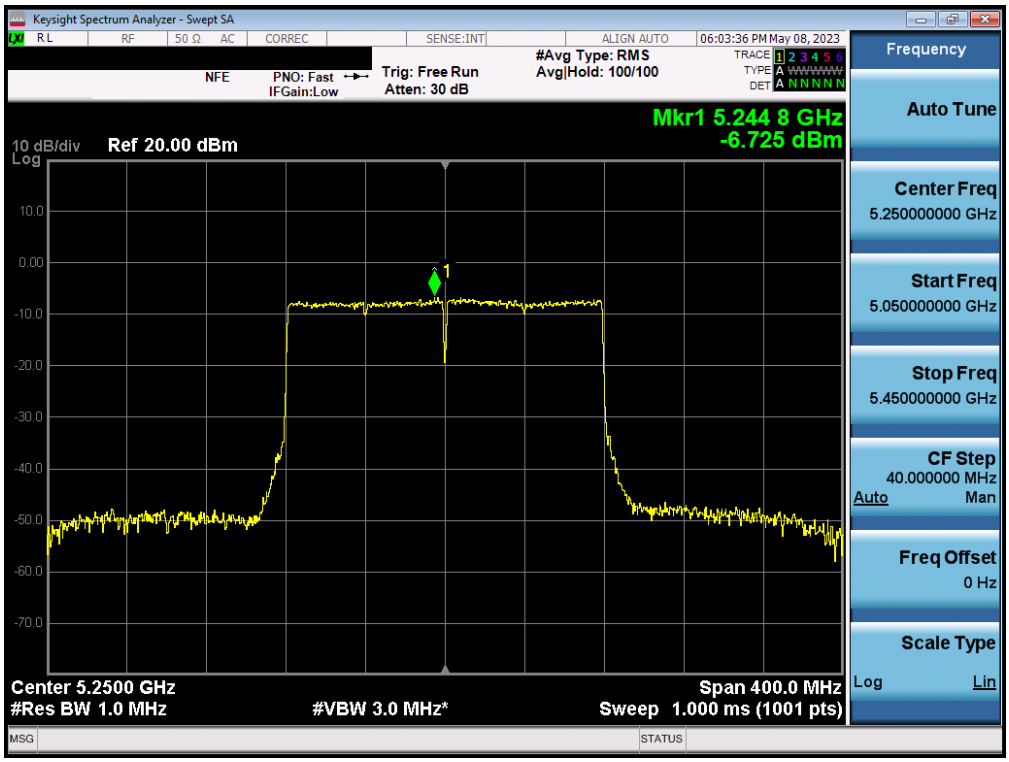
Plot 7-193. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)



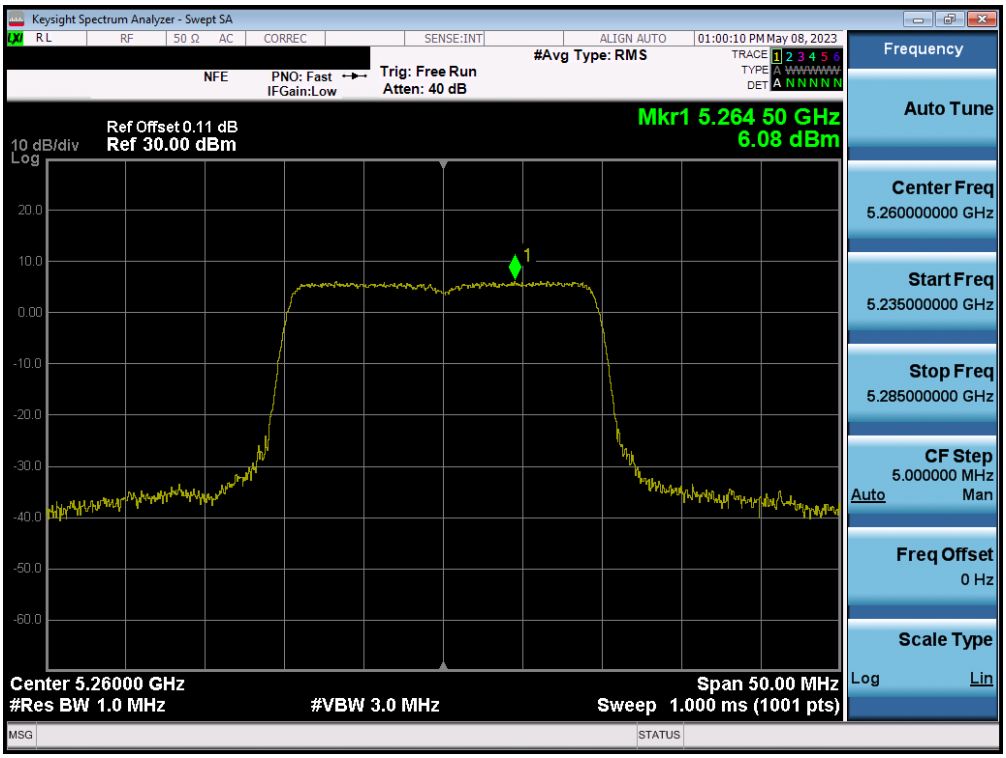
Plot 7-194. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)



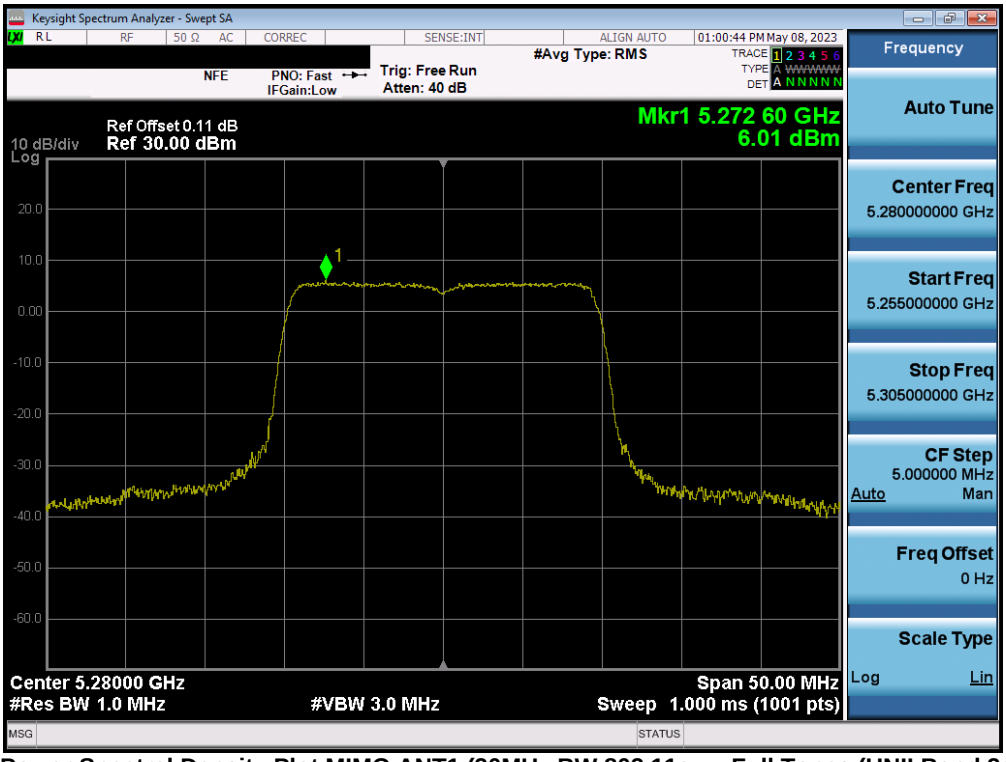
Plot 7-195. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)



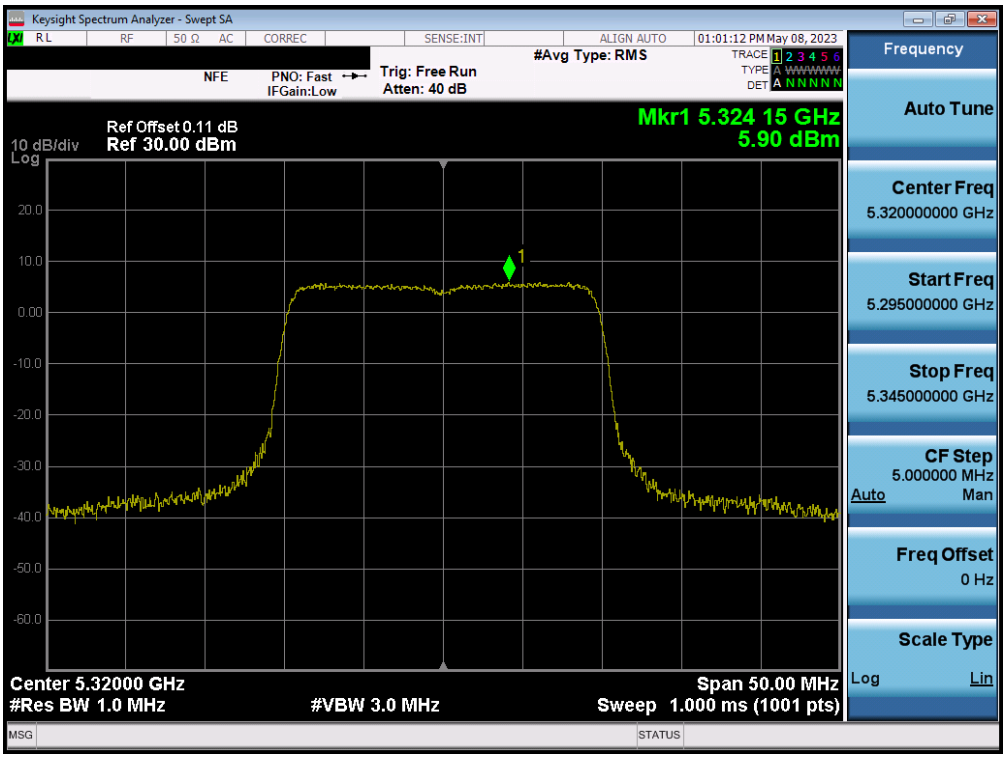
Plot 7-196. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – Full Tones (UNII Band 1/2A) – Ch. 50)



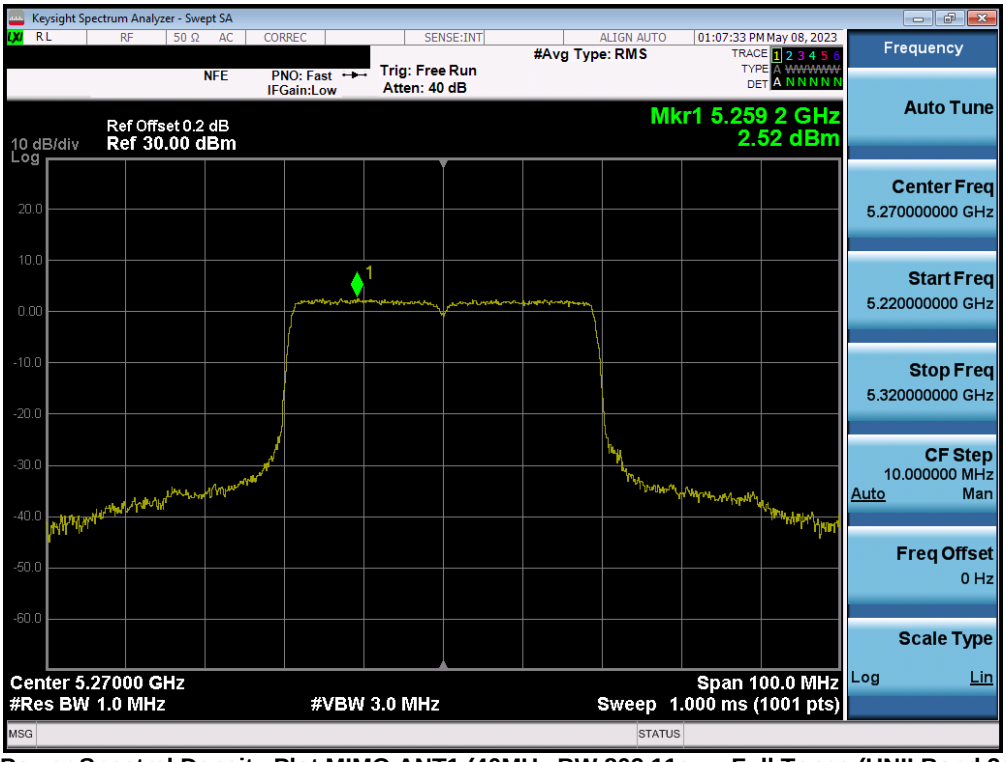
Plot 7-197. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)



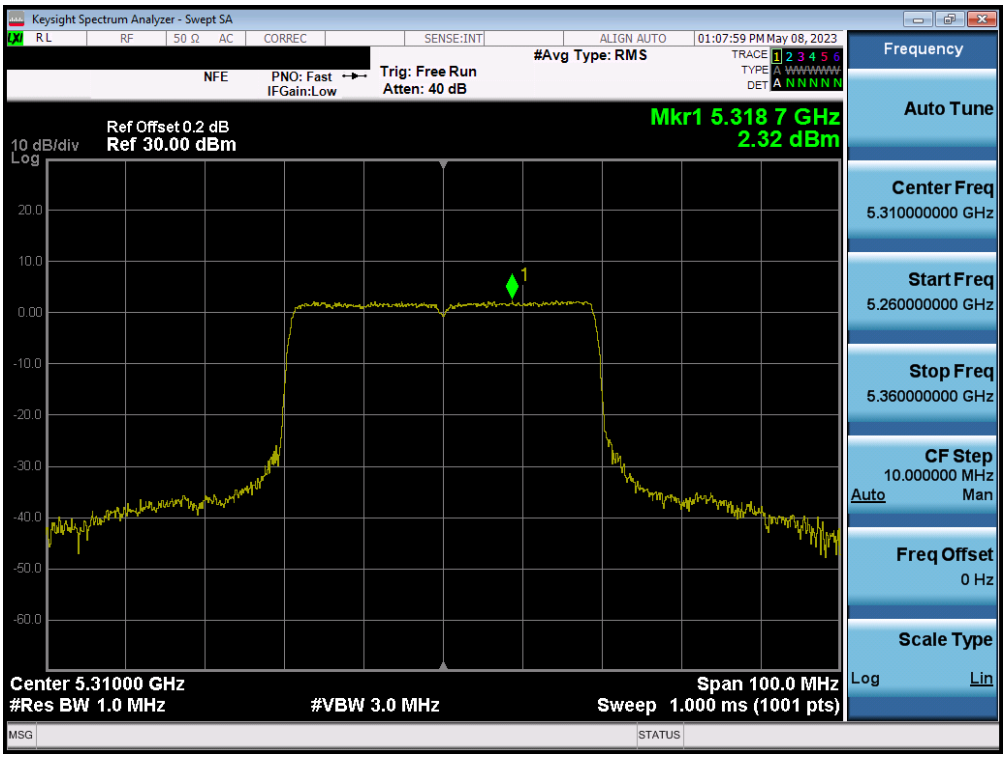
Plot 7-198. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)



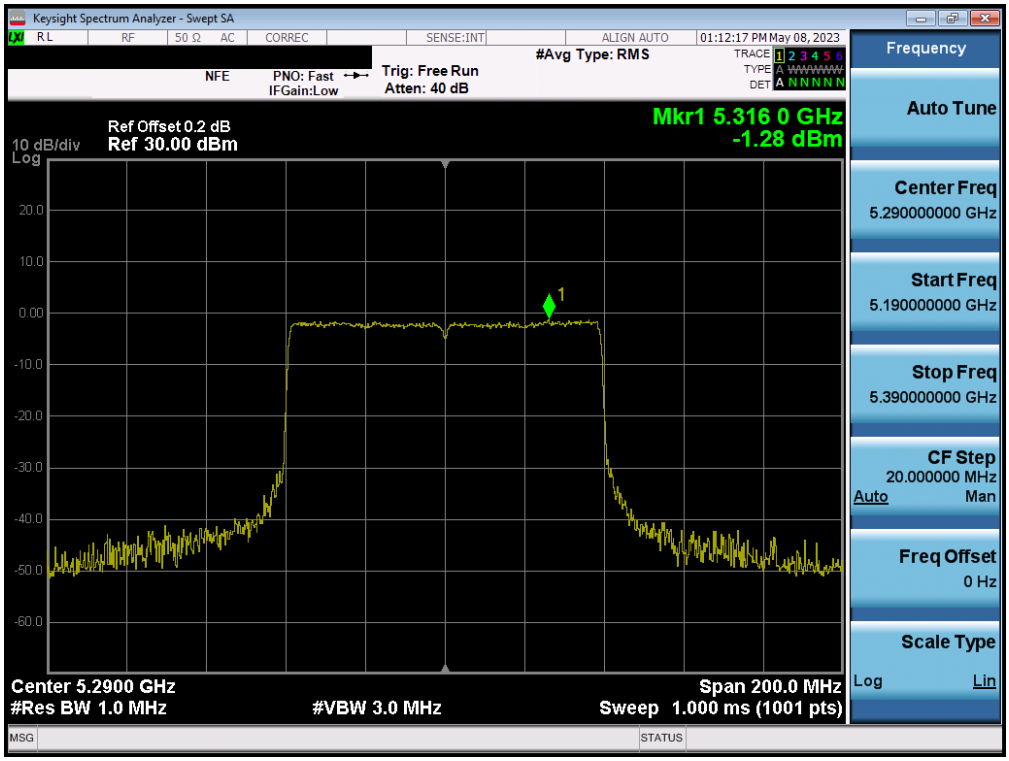
Plot 7-199. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)



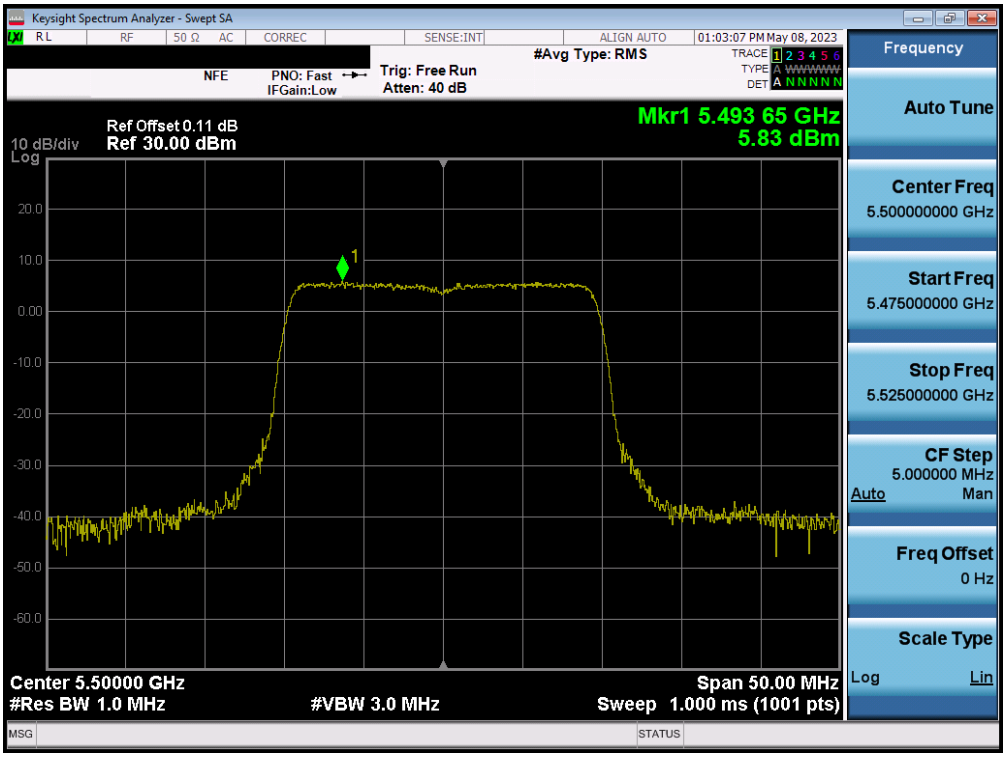
Plot 7-200. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)



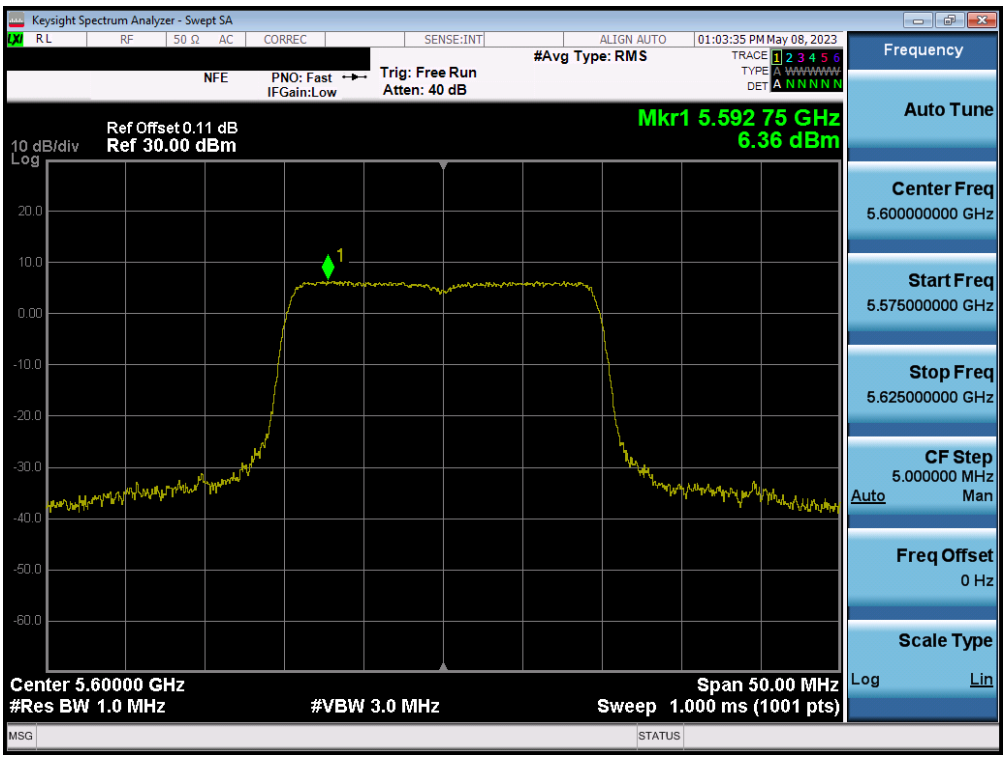
Plot 7-201. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)



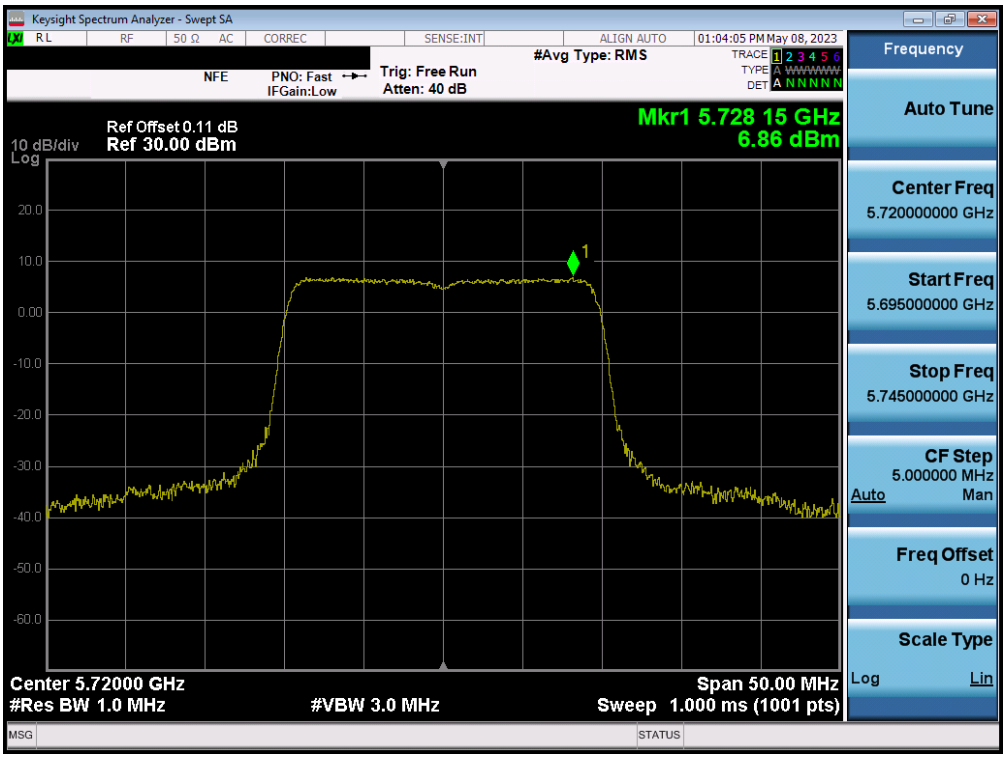
Plot 7-202. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)



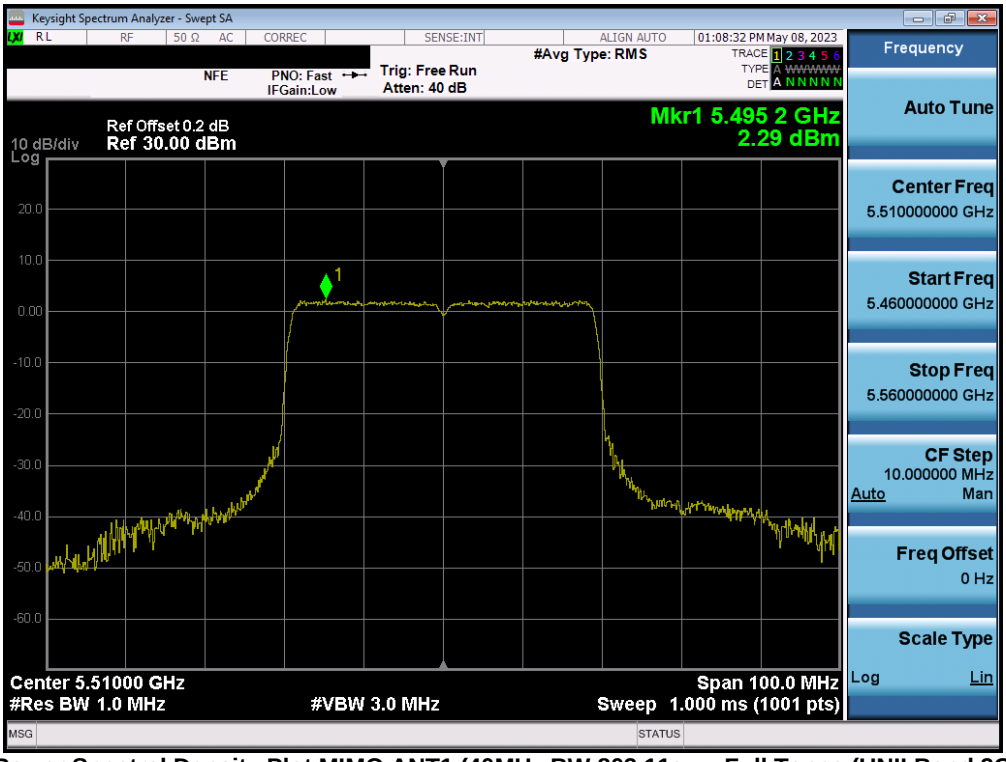
Plot 7-203. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)



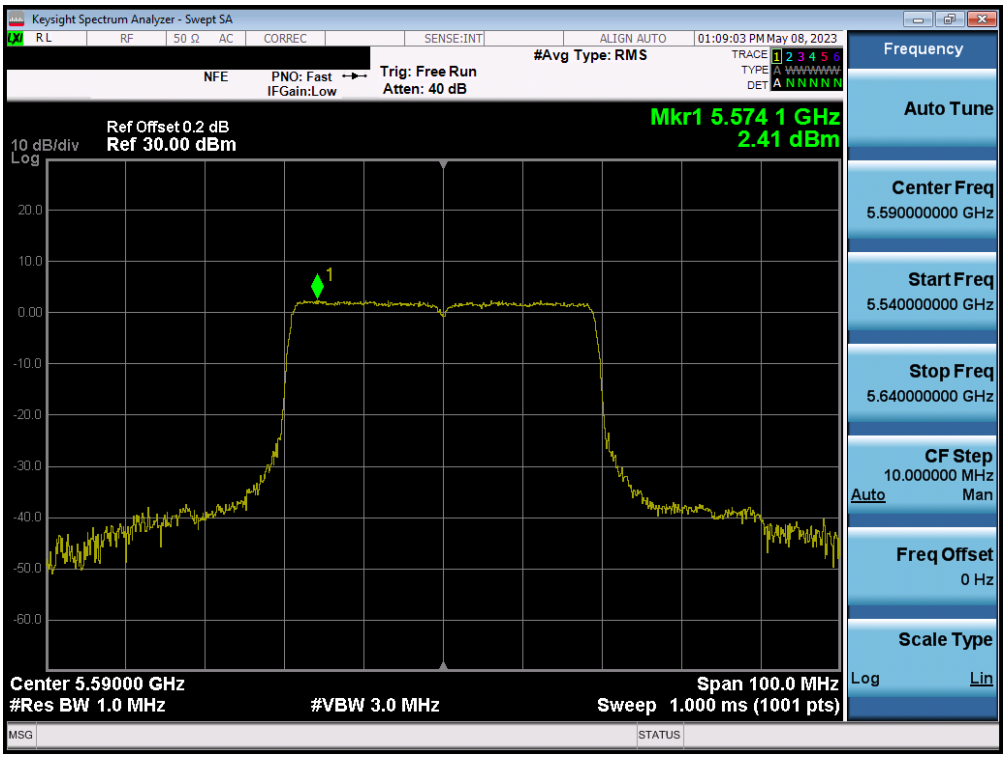
Plot 7-204. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)



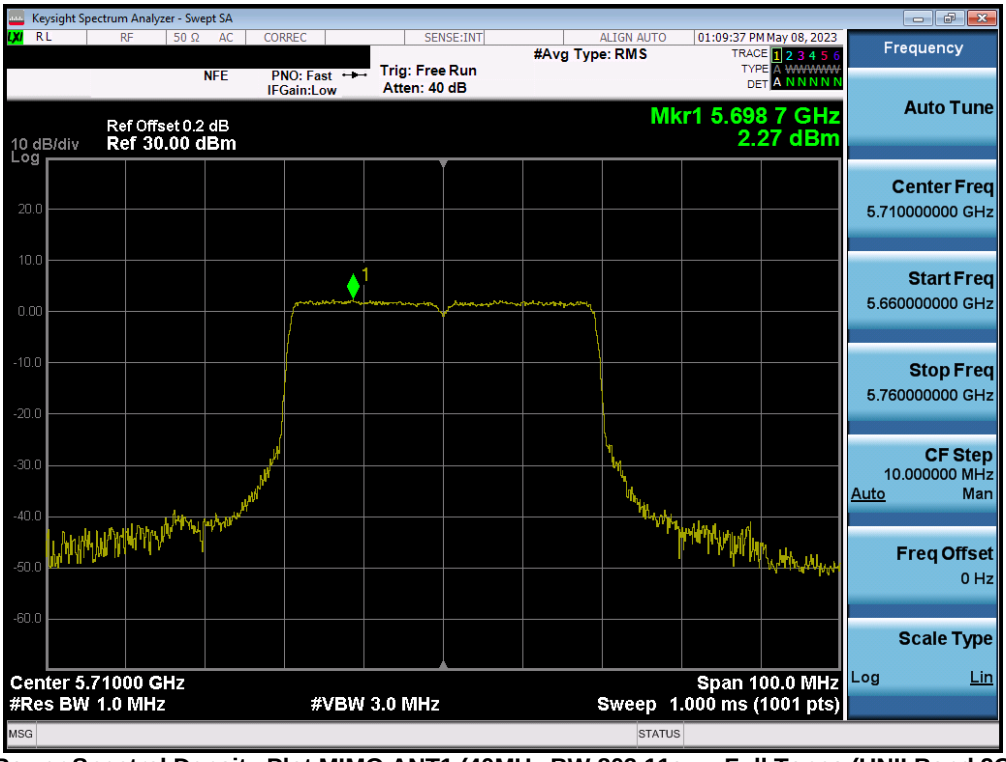
Plot 7-205. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)



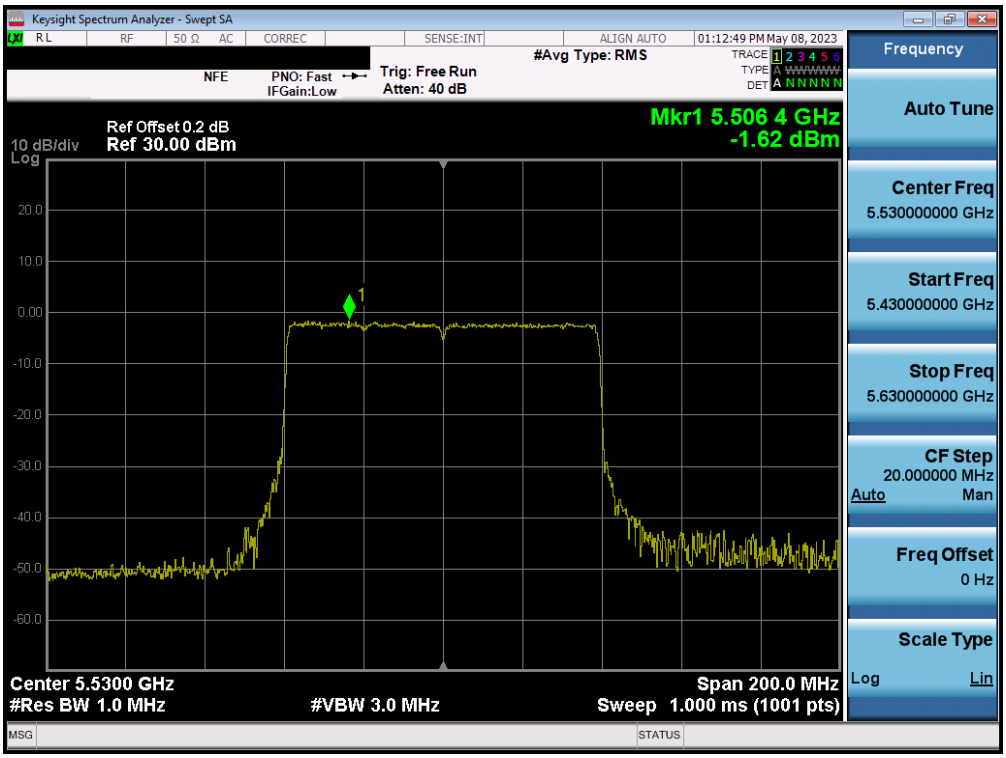
Plot 7-206. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)



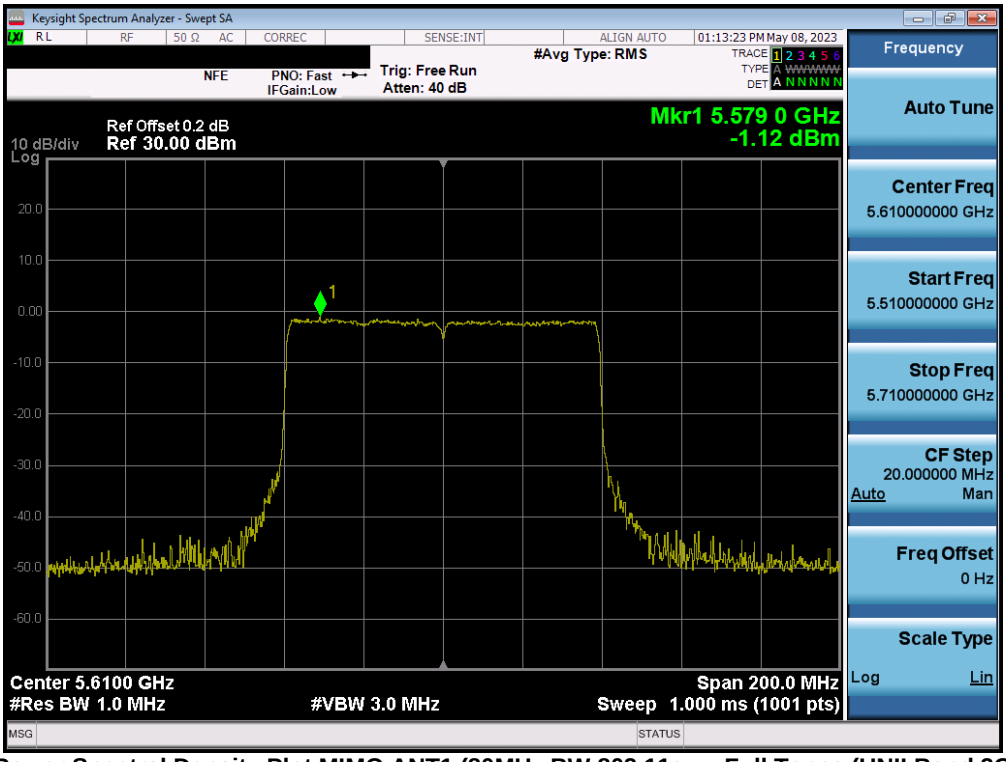
Plot 7-207. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)



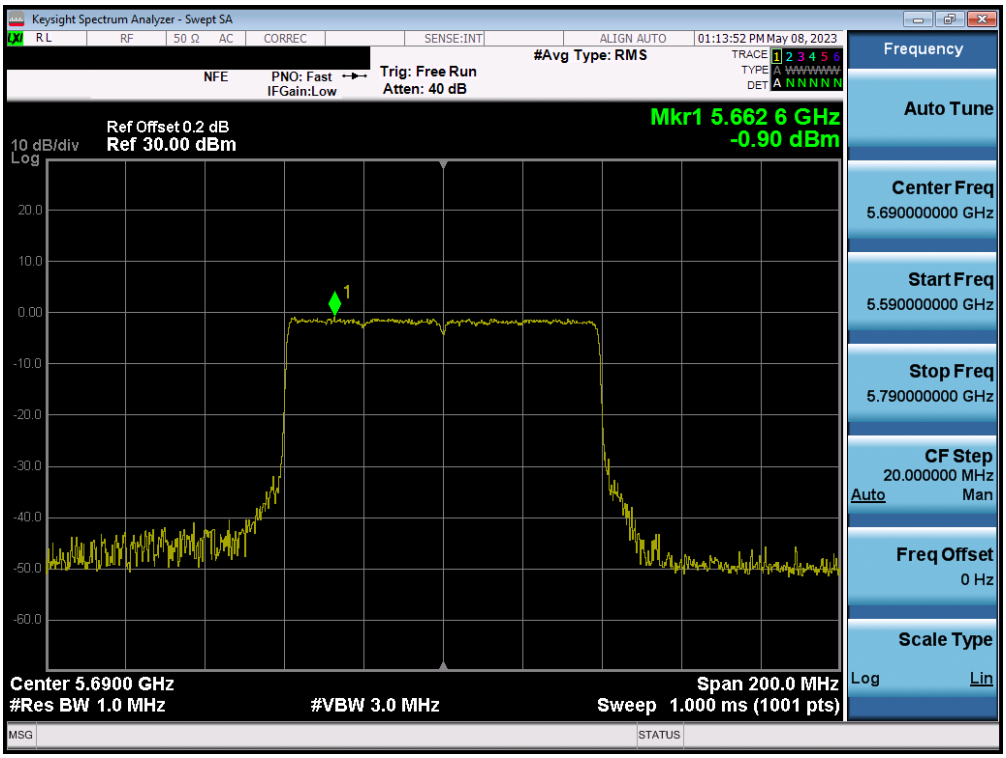
Plot 7-208. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)



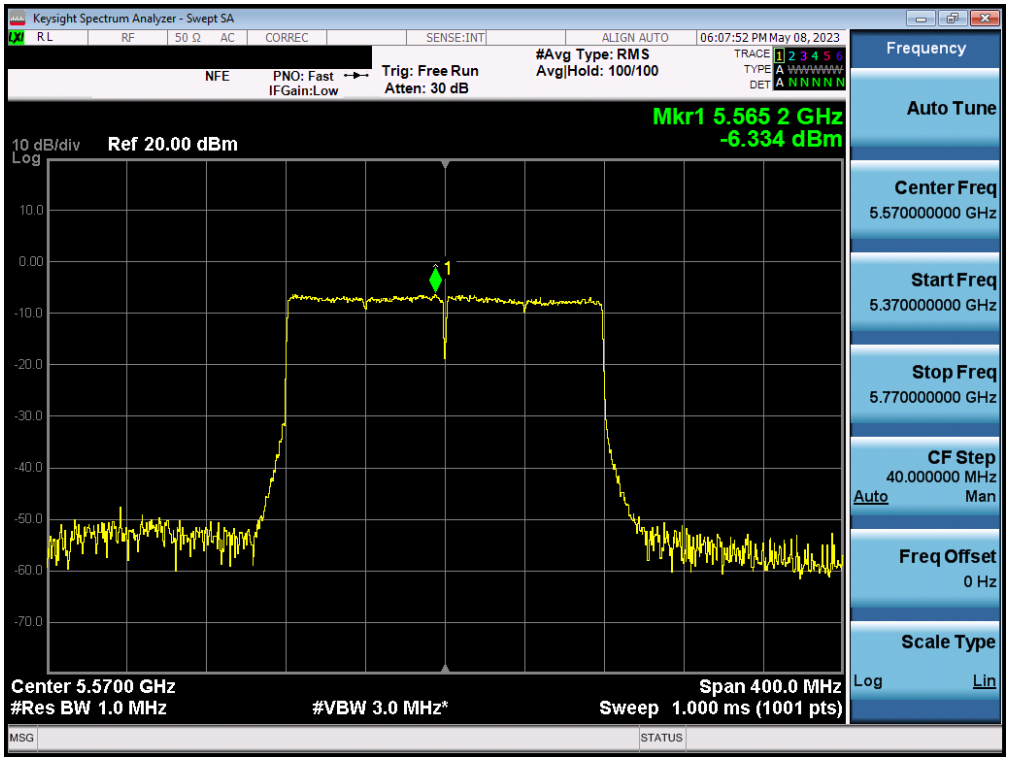
Plot 7-209. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



Plot 7-210. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)



Plot 7-211. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)



Plot 7-212. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)