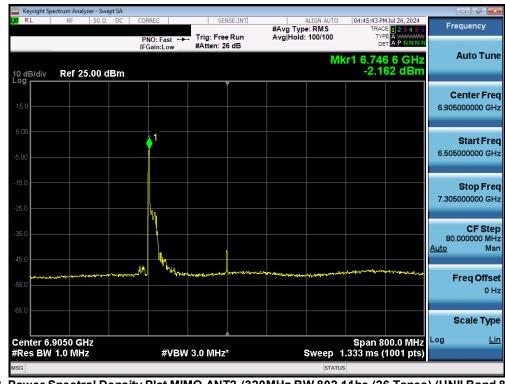


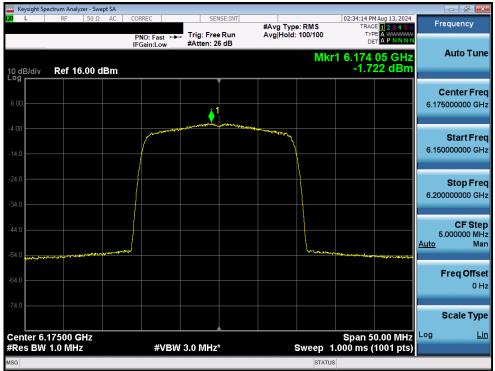
Plot 7-187. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 207)



Plot 7-188. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (26 Tones) (UNII Band 8) - Ch. 191)

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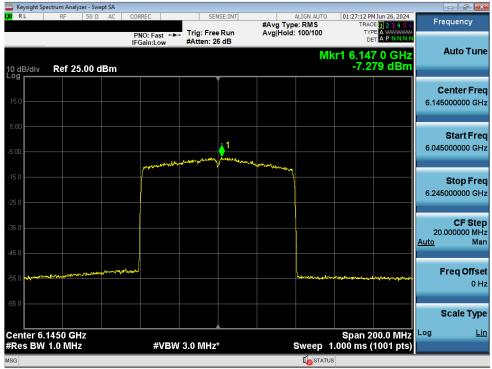
Plot 7-189. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 45)



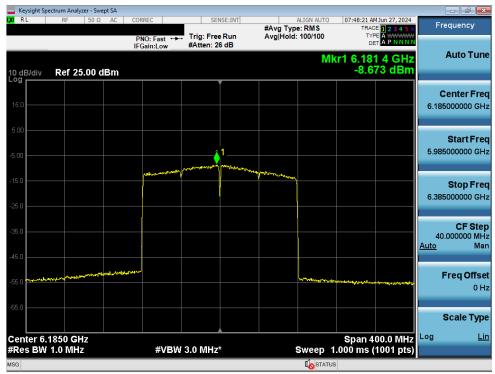
Plot 7-190. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 43)

FCC ID: A3LSMX920		Approved by: Technical Manager			
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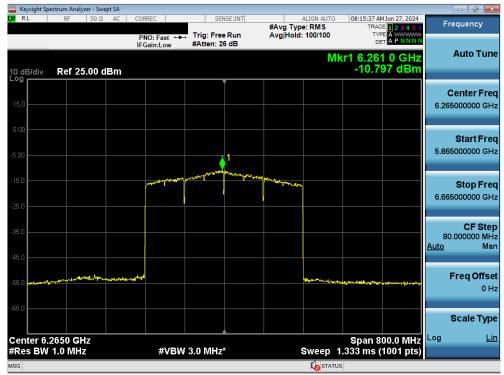
Plot 7-191. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 39)



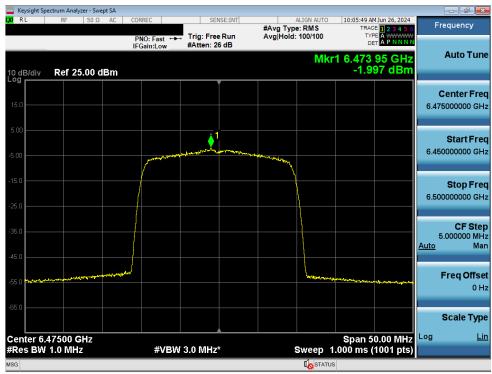
Plot 7-192. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 5) – Ch. 47)

FCC ID: A3LSMX920		Approved by: Technical Manager		
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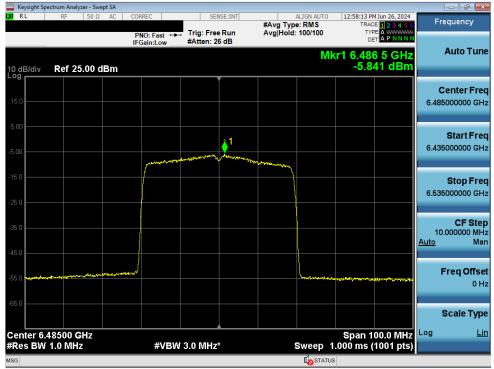
Plot 7-193. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 31)



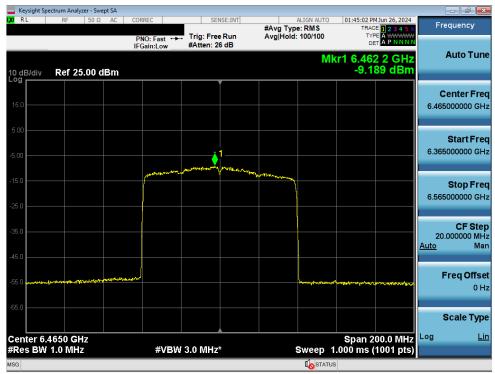
Plot 7-194. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 105)

FCC ID: A3LSMX920		MEASUREMENT REPORT			
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Plot 7-195. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 107)



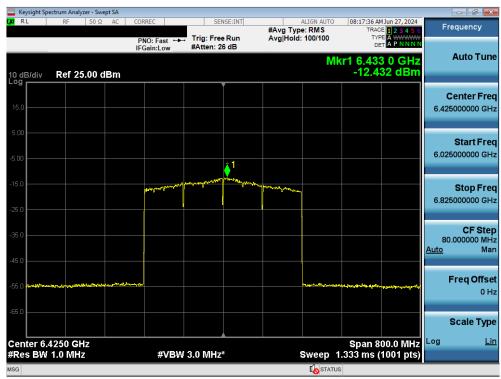
Plot 7-196. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMX920		MEASUREMENT REPORT			
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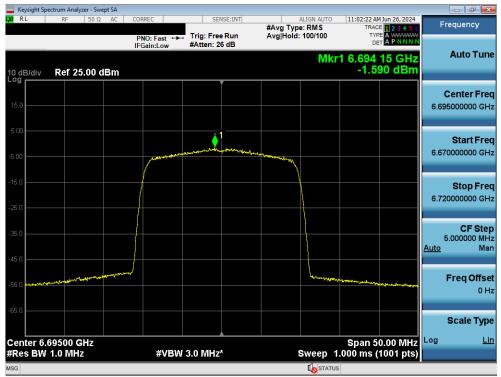
Plot 7-197. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 111)



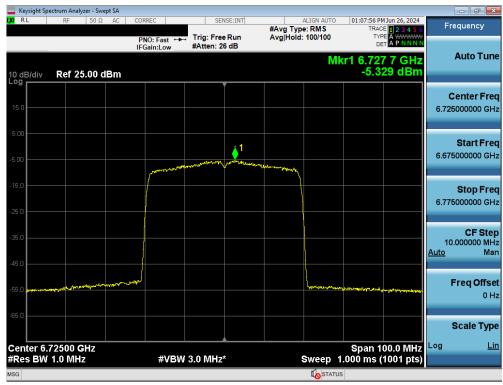
Plot 7-198. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 6) - Ch. 95)

FCC ID: A3LSMX920		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	Dates: EUT Type:	
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Plot 7-199. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 149)



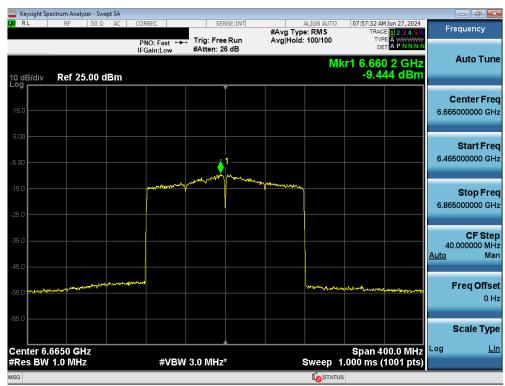
Plot 7-200. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 155)

FCC ID: A3LSMX920		MEASUREMENT REPORT			
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	trum Analyzer - Swept SA									×
L <mark>XI</mark> RL	RF 50 Ω AC	CORREC		ISE:INT	#Avg Typ		TRAC	1 Jun 26, 2024 E 1 2 3 4 5 6	Frequency	,
		PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 20		Avg Hold	: 100/100				
10 dB/div Log	Ref 25.00 dBm					M	kr1 6.70 -8.2	6 8 GHz 24 dBm	Auto T	une
15.0									Center F 6.705000000	
-5.00			and and the second second	1					Start F 6.605000000	
-15.0									Stop F 6.805000000	
-35.0									CF S 20.000000	
-55.0 workpoorted	-tynoren til Barry and an and an	- 1 11				himmenneli	and the second	and and an a state of the state	Freq Of	fset 0 Hz
-65.0 Center 6.7	050 CH7						Enan 2	00.0 MHz	Scale T	ype Lin
#Res BW 1		#VBW	3.0 MHz	5		Sweep	span 2 1.000 ms (1001 pts)		
MSG						I STAT				

Plot 7-201. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 151)



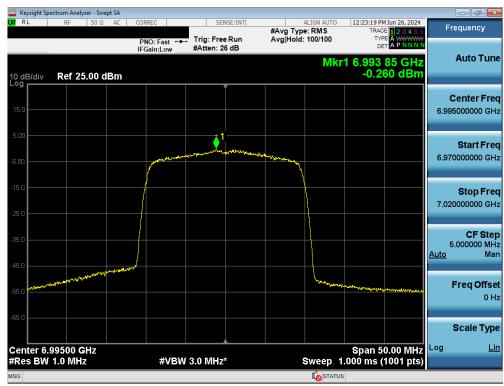
Plot 7-202. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 143)

FCC ID: A3LSMX920		Approved by: Technical Manager	
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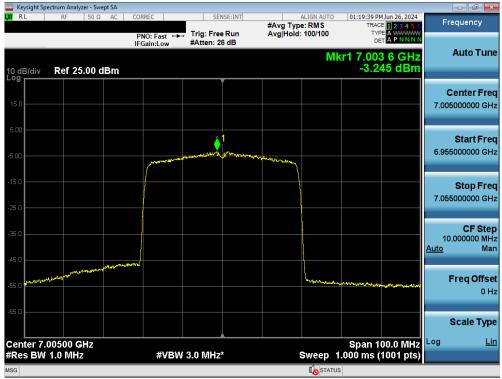
Plot 7-203. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 7) - Ch. 159)



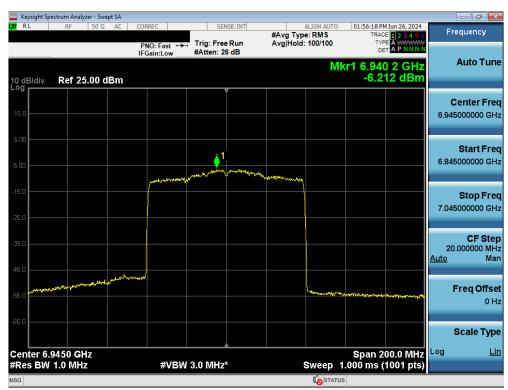
Plot 7-204. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 209)

FCC ID: A3LSMX920		MEASUREMENT REPORT			
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Plot 7-205. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 211)



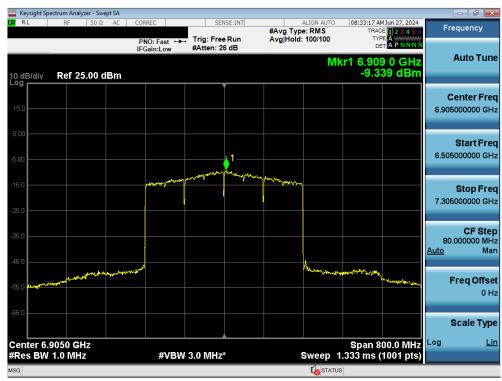
Plot 7-206. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMX920		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	s: EUT Type:			
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	ectrum Analyzer - Swe	·								
LXI RL	RF 50 Ω	AC COR	REC		ISE:INT	#Avg Typ		TRAC	M Jun 27, 2024	Frequency
			IO: Fast ↔ Gain:Low	#Atten: 26		Avg Hold	: 100/100	TYF DE		
10 dB/div Log	Ref 25.00 d	Bm					M	lkr1 6.97 -6.8	9 4 GHz 15 dBm	Auto Tune
15.0										Center Freq 6.985000000 GHz
-5.00				and the second of the second o	1					Start Freq 6.785000000 GHz
-15.0										Stop Freq 7.185000000 GHz
-35.0		nanget syndelten								CF Step 40.000000 MHz <u>Auto</u> Man
-55.0	water Parray and						wanner	an a	anga ta ang ang ang ang ang ang ang ang ang an	Freq Offset 0 Hz
-65.0										Scale Type
Center 6.9 #Res BW			#VBW	3.0 MHz*	5		Sweep	Span 4 1.000 ms (00.0 MHz 1001 pts)	Log <u>Lin</u>
MSG							I STAT			

Plot 7-207. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 207)



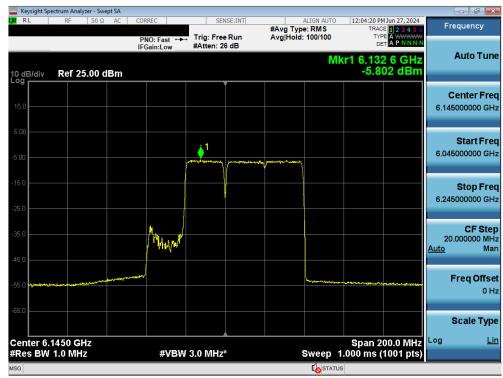
Plot 7-208. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 8) - Ch. 191)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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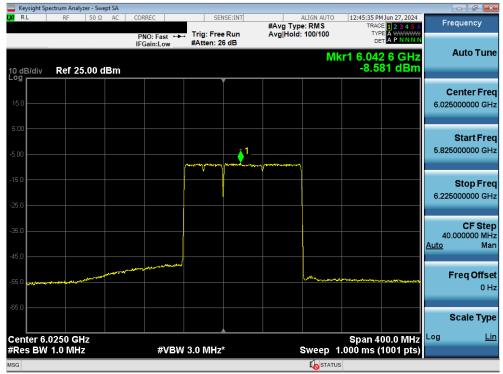
Plot 7-209. Power Spectral Density MIMO ANT2 (20MHz BW 802.11be (52+26 Tones) (UNII Band 5) - Ch. 45)



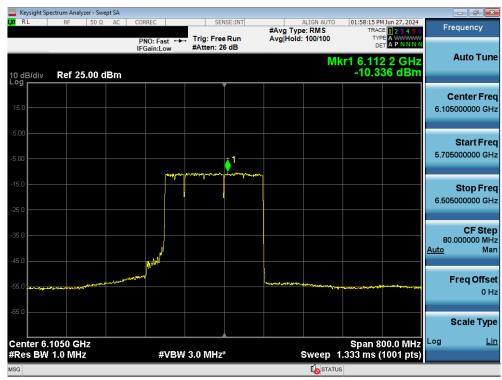
Plot 7-210. Power Spectral Density MIMO ANT2 (80MHz BW 802.11be (484+242 Tones) (UNII Band 5) - Ch. 39)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-211. Power Spectral Density MIMO ANT2 (160MHz BW 802.11be (996+484 Tones) (UNII Band 5) - Ch. 47)



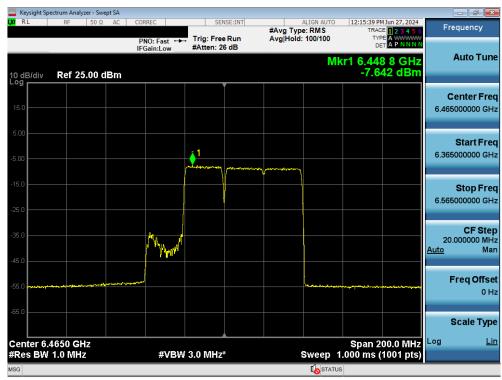
Plot 7-212. Power Spectral Density MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 5) – Ch. 31)

F	CC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-213. Power Spectral Density MIMO ANT2 (20MHz BW 802.11be (52+26 Tones) (UNII Band 6) - Ch. 105)



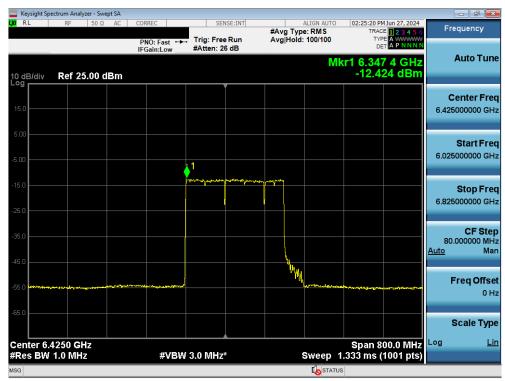
Plot 7-214. Power Spectral Density MIMO ANT2 (80MHz BW 802.11be (484+242 Tones) (UNII Band 6) – Ch. 103)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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	ectrum Analyzer - Sw									- # *
L <mark>XI</mark> RL	RF 50 Ω	AC	CORREC		NSE:INT	#Avg Typ Avg Hold		TRAC	1 Jun 27, 2024 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div Log	Ref 25.00 (dBm	PNO: Fast ↔ IFGain:Low	#Atten: 2		Avginola		DE kr1 6.46		Auto Tune
15.0										Center Freq 6.505000000 GHz
-5.00				<u></u> 1						Start Freq 6.305000000 GHz
-15.0						la service and services				Stop Freq 6.705000000 GHz
-35.0										CF Step 40.000000 MHz <u>Auto</u> Man
-55.0	wayiyiyiyi dalami	and the second	and the second second				and the second	allen sukrissentender	underfangen gester	Freq Offset 0 Hz
-65.0 Center 6. #Res BW	5050 GHz		#\/B\A	3.0 MHz	*		Sween	Span 4 1.000 ms (00.0 MHz	Scale Type
#RUS DW	1.0 IVINZ		#0000	5.0 WHZ			Sweep		roor prs)	

Plot 7-215. Power Spectral Density MIMO ANT2 (160MHz BW 802.11be (996+484 Tones) (UNII Band 6) - Ch. 111)



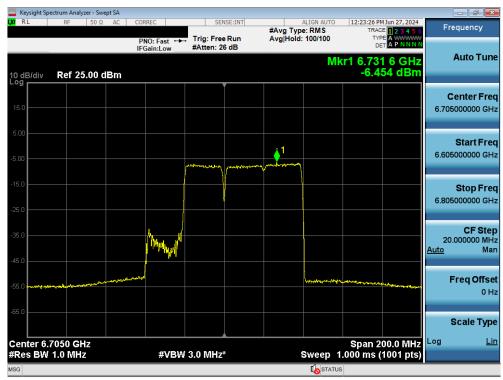
Plot 7-216. Power Spectral Density MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 6) - Ch. 95)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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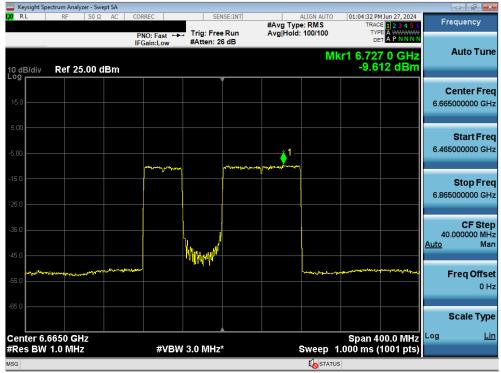
Plot 7-217. Power Spectral Density MIMO ANT2 (20MHz BW 802.11be (52+26 Tones) (UNII Band 7) - Ch. 149)



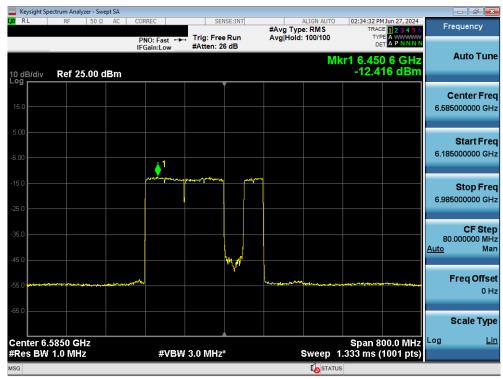
Plot 7-218. Power Spectral Density MIMO ANT2 (80MHz BW 802.11be (484+242 Tones) (UNII Band 7) – Ch. 151)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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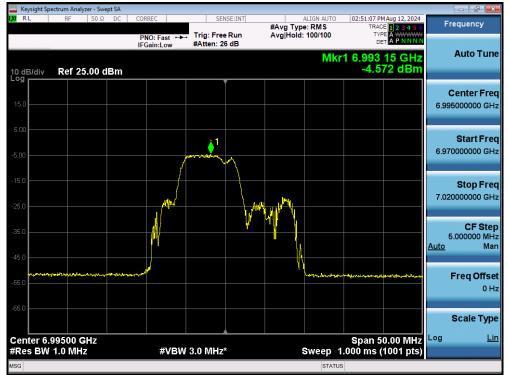
Plot 7-219. Power Spectral Density MIMO ANT2 (160MHz BW 802.11be (996+484 Tones) (UNII Band 7) - Ch. 143)



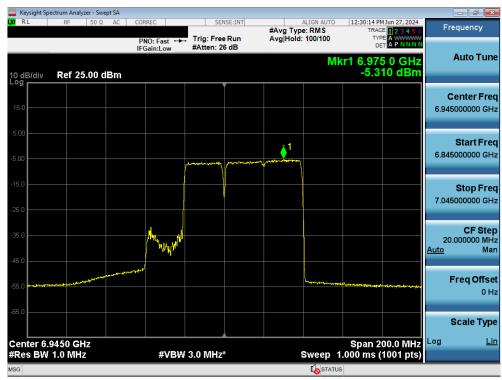
Plot 7-220. Power Spectral Density MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 7) – Ch. 159)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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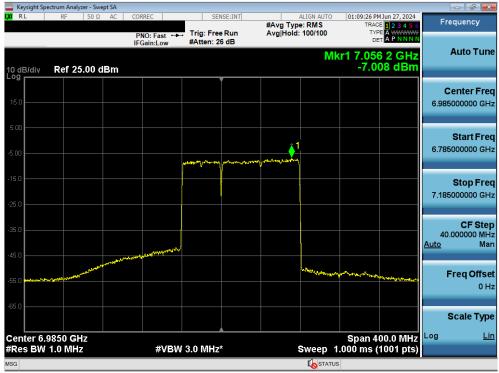
Plot 7-221. Power Spectral Density MIMO ANT2 (20MHz BW 802.11be (52+26 Tones) (UNII Band 8) - Ch. 209)



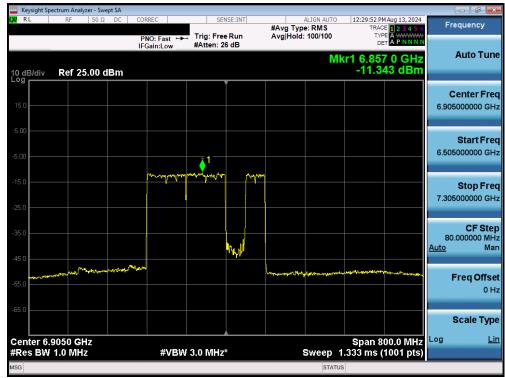
Plot 7-222. Power Spectral Density MIMO ANT2 (80MHz BW 802.11be (484+242 Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-223. Power Spectral Density MIMO ANT2 (160MHz BW 802.11be (996+484 Tones) (UNII Band 8) - Ch. 207)



Plot 7-224. Power Spectral Density MIMO ANT2 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 8) - Ch. 191)

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately 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 GN is the gain of the nth antenna and NANT, the total number of antennas used.

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

Sample MIMO Calculation:

At 5935MHz in 802.11be (20MHz BW) mode, the average conducted power spectral density was measured to be -1.56 dBm for Antenna-1 and -3.05 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-1.56 dBm + -3.05 dBm) = (0.698 mW + 0.495 mW) = 1.193 mW = 0.77 dBm

Sample e.i.r.p Power Spectral Density Calculation:

At 5935 MHz in 802.11ax (20MHz BW) mode, the average MIMO power density was calculated to be 0.77 dBm with directional gain of -2.30 dBi.

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

0.77 dBm + -2.30 dBi = -1.53 dBm

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7.5 In-Band Emissions

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.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

KDB 987594 D02 v01r01

Test Settings

- 1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
- 2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
- 3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
- 4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW ≥ 3 X RBW
 - d) Number of points in sweep \geq [2 X span / RBW].
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- 5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
- 6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

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- 7. Adjust the span to encompass the entire mask as necessary.
- 8. Clear trace.
- 9. Trace average at least 100 traces in power averaging (rms) mode.
- 10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

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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

None.

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	Frequency Channel		802.11	Antenna-1 In-Band	Antenna-2 In-Band
	[MHz]	Channel	MODE	Emission	Emission
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
Band 5	5985	7	be (80MHz)	PASS	PASS
Bar	6145	39	be (80MHz)	PASS	PASS
	6385	87	be (80MHz)	PASS	PASS
	6025	15	be (160MHz)	PASS	PASS
	6185	47	be (160MHz)	PASS	PASS
	6345	79	be (160MHz)	PASS	PASS
	6105	31	be (320MHz)	PASS	PASS
	6265	63	be (320MHz)	PASS	PASS
	6435	97	be (20MHz)	PASS	PASS
	6475	105	be (20MHz)	PASS	PASS
	6515	113	be (20MHz)	PASS	PASS
Band 6	6445	99	be (40MHz)	PASS	PASS
Bar	6485	107	be (40MHz)	PASS	PASS
	6525	115	be (40MHz)	PASS	PASS
	6465	103	be (80MHz)	PASS	PASS
	6505	111 be (160MHz) PASS		PASS	PASS
Band 5/6/7	6425	95	be (320MHz)	PASS	PASS
	6695	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6875	185	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
2	6725	155	be (40MHz)	PASS	PASS
Band 7	6845	179	be (40MHz)	PASS	PASS
B	6545	119	be (80MHz)	PASS	PASS
	6705	151	be (80MHz)	PASS	PASS
	6865	183	be (80MHz)	PASS	PASS
	6665	143	be (160MHz)	PASS	PASS
	6825	175	be (160MHz)	PASS	PASS
Band 6/7	6585	127	be (320MHz)	PASS	PASS
Band 7/8	6745	159	be (320MHz)	PASS	PASS
	6895	189	be (20MHz)	PASS	PASS
	6995	209	be (20MHz)	PASS	PASS
	7115	233	be (20MHz)	PASS	PASS
80	6885	187	be (40MHz)	PASS	PASS
Band 8	6965	211	be (40MHz)	PASS	PASS
-	7085	227	be (40MHz)	PASS	PASS
	6945	199	be (80MHz)	PASS	PASS
	7025	215	be (80MHz)	PASS	PASS
	C00F	207	be (160MHz)	PASS	PASS
	6985	207	DC (100101112)	17,55	17.65

Table 7-39. In Band Emission Results – 26 Tones

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	Frequency		802.11	Antenna-1	Antenna-2
	[MHz]	Channel	MODE	In-Band Emission	In-Band Emission
	5935	2	be (20MHz)	PASS	PASS
	6175	45	be (20MHz)	PASS	PASS
	6415	93	be (20MHz)	PASS	PASS
	5965	3	be (40MHz)	PASS	PASS
	6165	43	be (40MHz)	PASS	PASS
	6405	91	be (40MHz)	PASS	PASS
d 5	5985	7	be (80MHz)	PASS	PASS
Band 5	6145	39	be (80MHz)	PASS	PASS
-	6385	87	be (80MHz)	PASS	PASS
	6025	15	be (160MHz)	PASS	PASS
	6185	47	be (160MHz)	PASS	PASS
	6345	79	be (160MHz)	PASS	PASS
	6105	31	be (320MHz)	PASS	PASS
	6265	63	be (320MHz)	PASS	PASS
	6435	97	be (20MHz)	PASS	PASS
	6475	105	be (20MHz)	PASS	PASS
	6515	113	be (20MHz)	PASS	PASS
9 6	6445	99	be (40MHz)	PASS	PASS
Band 6	6485	107	be (40MHz)	PASS	PASS
•	6525	115	be (40MHz)	PASS	PASS
	6465	103	be (80MHz)	PASS	PASS
	6505	111	be (160MHz)	PASS	PASS
Band 5/6/7	6425	95	be (320MHz)	PASS	PASS
bana 5/ 6/ 7	6695	117	be (20MHz)	PASS	PASS
	6695	149	be (20MHz)	PASS	PASS
	6875	145	be (20MHz)	PASS	PASS
	6565	123	be (40MHz)	PASS	PASS
~	6725	155	be (40MHz)	PASS	PASS
Band 7	6845	179	be (40MHz)	PASS	PASS
Bai	6545	119	be (80MHz)	PASS	PASS
	6705	151	be (80MHz)	PASS	PASS
	6865	183	be (80MHz)	PASS	PASS
	6665	143	be (160MHz)	PASS	PASS
	6825	175	be (160MHz)	PASS	PASS
Band 6/7	6585	175	be (320MHz)	PASS	PASS
Band 7/8	6745	159	be (320MHz)	PASS	PASS
	6895	189	be (20MHz)	PASS	PASS
	6995	209	be (20MHz)	PASS	PASS
	7115	233	be (20MHz)	PASS	PASS
∞	6885	187	be (40MHz)	PASS	PASS
Band 8	6965	211	be (40MHz)	PASS	PASS
Ba	7085	227	be (40MHz)	PASS	PASS
	6945	199	be (80MHz)	PASS	PASS
	7025	215	be (80MHz)	PASS	PASS
	6985	207	be (160MHz)	PASS	PASS
Band 7/8	6905	191	be (320MHz)	PASS	PASS
			· · · ·	sults – Full	

Table 7-40. In Band Emission Results - Full Tones

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	Frequency [MHz]	Channel	802.11 MODE	MRU Configurati on	Antenna-1 In-Band Emission	Antenna-2 In-Band Emission
	6145	39	be (80MHz)	484+242T	PASS	PASS
	6185	47	be (160MHz)	996+484T	PASS	PASS
Band 5	6105	31	be (320MHz)	3x996+484T	PASS	PASS
	6105	31	be (320MHz)	3x996T	PASS	PASS
6105 31		be (320MHz)	2x996+484T	PASS	PASS	
Band 6	6465	103	be (80MHz)	484+242T	PASS	PASS
Dallu O	6505	111	be (160MHz)	996+484T	PASS	PASS
6425		95	be (320MHz)	3x996+484T	PASS	PASS
Band 5/6/7	6425	95	be (320MHz)	3x996T	PASS	PASS
	6425	95	be (320MHz)	2x996+484T	PASS	PASS
Band 7	6705	151	be (80MHz)	484+242T	PASS	PASS
Dallu 7	6665	143	be (160MHz)	996+484T	PASS	PASS
	6745	127	be (320MHz)	3x996+484T	PASS	PASS
Band 7/8	6745	127	be (320MHz)	3x996T	PASS	PASS
	6745	127	be (320MHz)	2x996+484T	PASS	PASS
Band 8	6945	199	be (80MHz)	484+242T	PASS	PASS
Dallu o	6985	207	be (160MHz)	996+484T	PASS	PASS
	6905	191	be (320MHz)	3x996+484T	PASS	PASS
Band 7/8	6905	191	be (320MHz)	3x996T	PASS	PASS
	6905	191	be (320MHz)	2x996+484T	PASS	PASS

Table 7-41. In Band Emission Results - MRU

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7.5.1 MIMO Antenna-1 In Band Emission Measurements



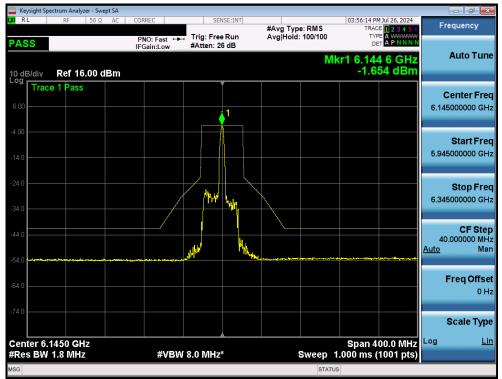
Plot 7-225. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 45)



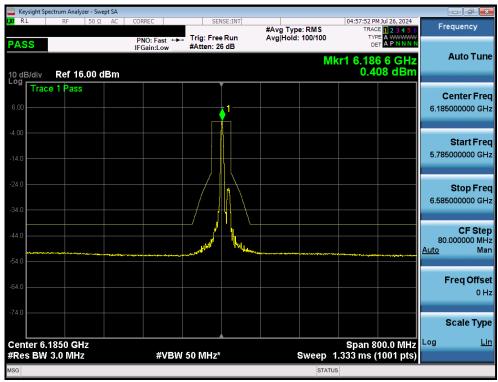
Plot 7-226. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 43)

FCC ID: A3LSMX920		MEASUREMENT REPORT					
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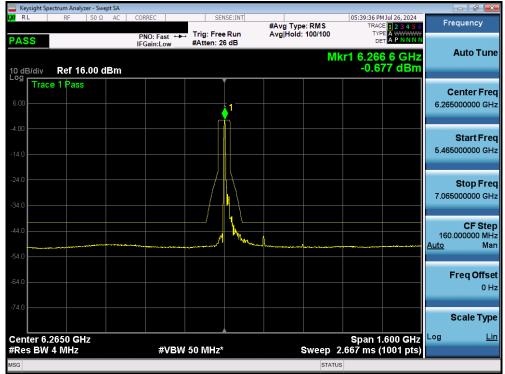
Plot 7-227. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 39)



Plot 7-228. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 47)

FCC ID: A3LSMX920		MEASUREMENT REPORT			
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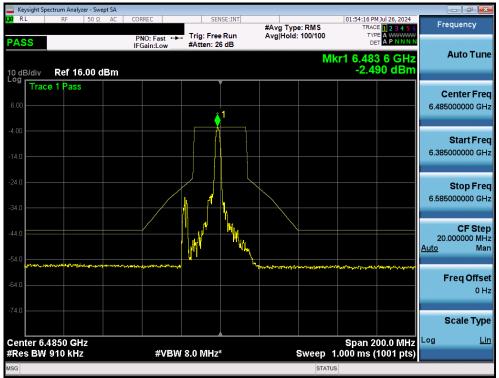
Plot 7-229. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 31)



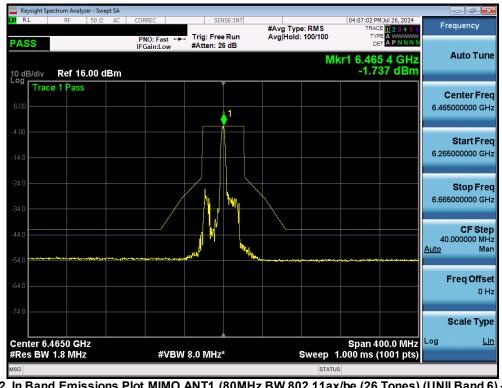
Plot 7-230. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 105)

FCC ID: A3LSMX920		Approved by: Technical Manager	
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Plot 7-231. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 107)



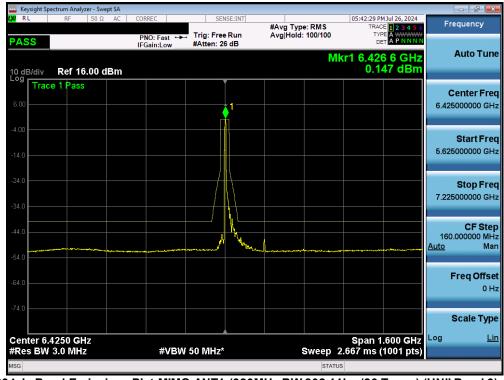
Plot 7-232. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMX920		MEASUREMENT REPORT					
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	ctrum Analyz		t SA									_	
LXVI RL	RF	50 Ω	AC	CORREC		SEI	ISE:INT	#Avg Typ	e: RMS		M Jul 26, 2024	Fr	equency
PASS				PNO: Fa IFGain:Lo		Trig: Free #Atten: 2		Avg Hold	: 100/100	TY Di			
10 dB/div Log	Ref 16	.00 dE	Зm						М	kr1 6.50 0.6	6 6 GHz 83 dBm		Auto Tune
6.00	e 1 Pass						1						enter Freq
-4.00												6.10	Start Freq 5000000 GHz
-24.0							Λ					6.90	Stop Freq 5000000 GHz
-44.0							- N	Anaronant				80 <u>Auto</u>	CF Step .000000 MHz Man
-64.0												ľ	Freq Offset 0 Hz
-74.0													Scale Type
Center 6.5 #Res BW				#	VBW	50 MHz*			Sweep	Span 8 1.333 ms (00.0 MHz (1001 pts)	Log	Lin
MSG									STATU	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

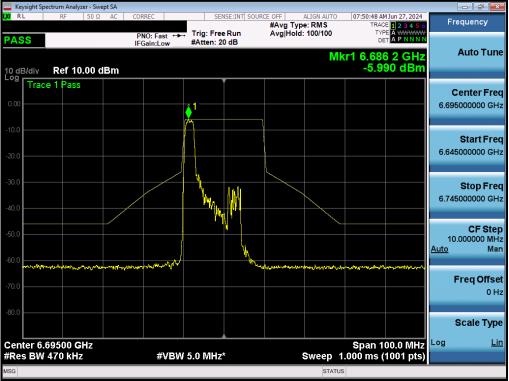
Plot 7-233. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 6) - Ch. 111)



Plot 7-234. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (26 Tones) (UNII Band 6) - Ch. 95)

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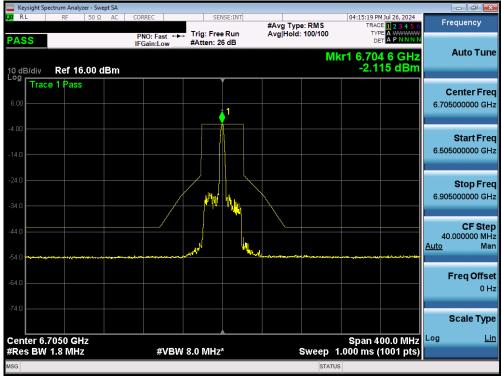
Plot 7-235. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 149)



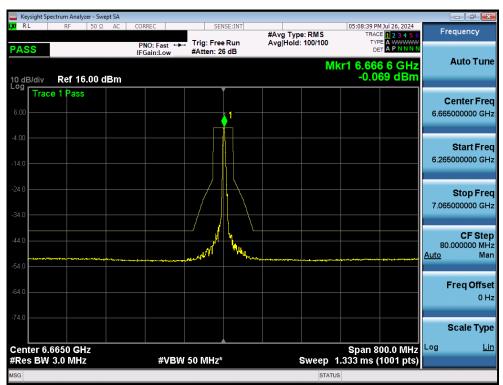
Plot 7-236. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 155)

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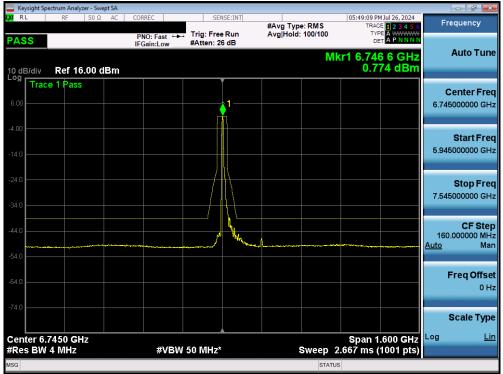
Plot 7-237. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 151)



Plot 7-238. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 7) - Ch. 143)

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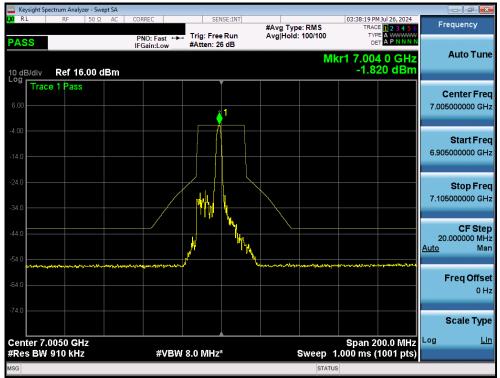
Plot 7-239. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (26 Tones) (UNII Band 7) - Ch. 159)



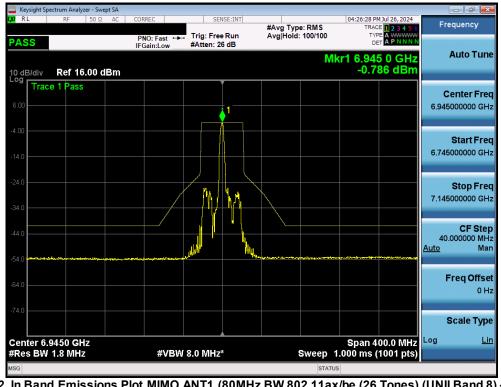
Plot 7-240. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 209)

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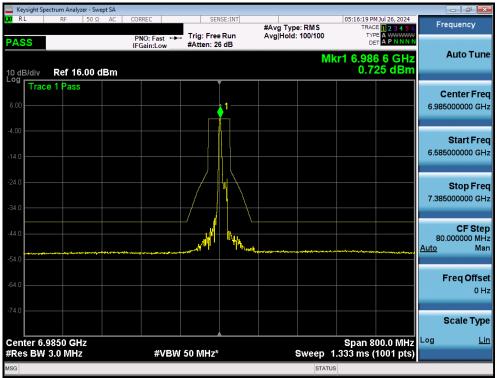
Plot 7-241. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 211)



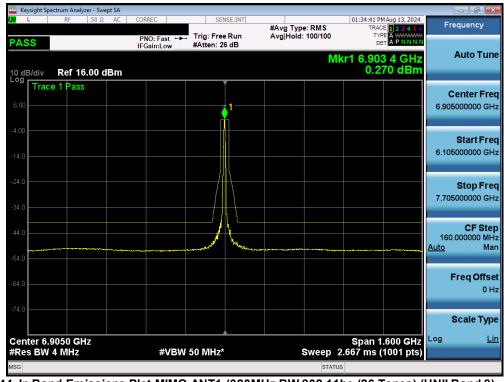
Plot 7-242. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 199)

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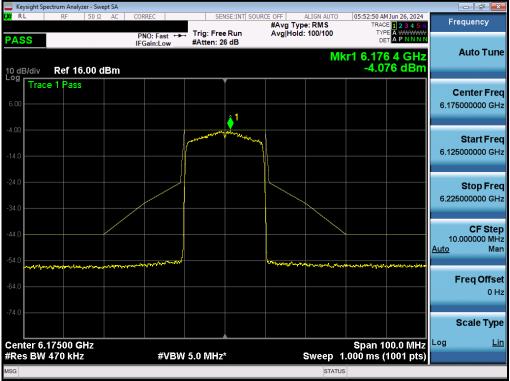
Plot 7-243. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 8) - Ch. 207



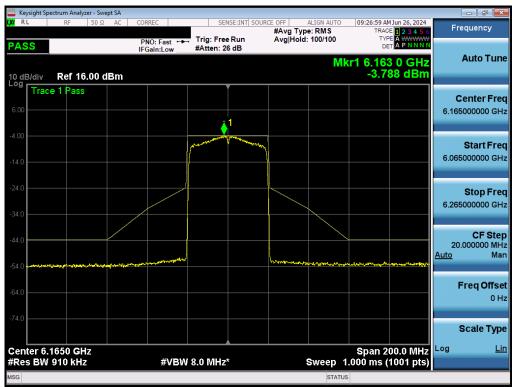
Plot 7-244. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (26 Tones) (UNII Band 8) - Ch. 191)

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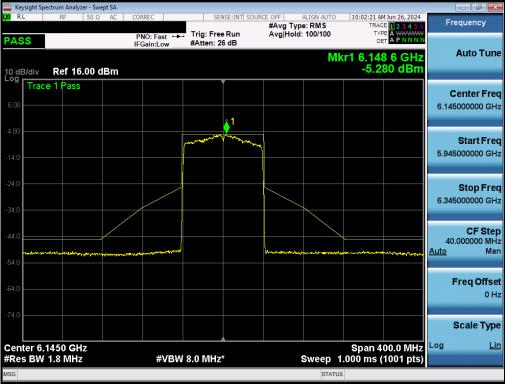
Plot 7-245. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 45)



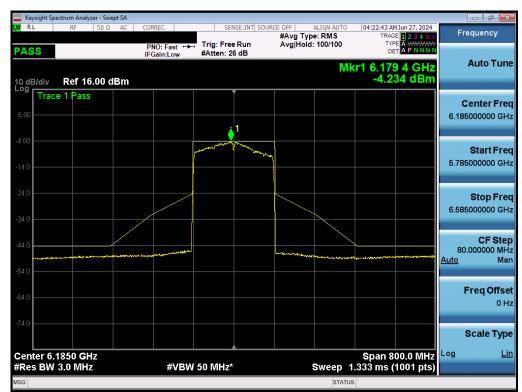
Plot 7-246. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 43)

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Plot 7-247. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 39)



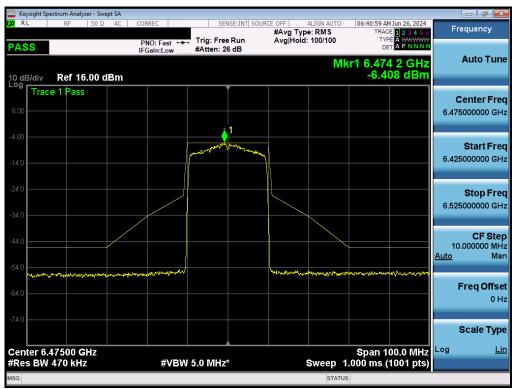
Plot 7-248. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 5) - Ch. 47)

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Nome Mkr1 6.273 0 GHz Auto Tun 10 dB/div Ref 16.00 dBm -5.712 dBm 6.00 -09 Trace 1 Pass -00 -00 -00 -00 6.25500000 GH 6.25500000 GH 6.25500000 GH -00 -00 Start Free 6.25500000 GH -00	Keysight Spectrum Analyzer								
Auto Tun In Galant. Jow #Atten: 26 dB Mkr1 6.273 0 GHz -5.712 dBm Center Free 6.00 4	XIRL RF S	50 Ω AC CORRE			#Avg Typ	e: RMS	TRACE	123456	Frequency
Trace 1 Pass Center Free 6.00 1 4.00 1 4.00 5.46500000 GH 24.0 5.46500000 GH 34.0 5.46500000 GH 4.00 5.46500000 GH 4.00 Genter Free 5.46500000 GH Stop Free 7.05500000 GH Mathematical Genter 6.00 Genter 6.2650 GHz #VEW 50 MHz* Span 1.600 GHz Stop Free Cog Li	PASS 10 dB/div Ref 16.0	IFGa			Avg Hold:		DET r1 6.273	0 GHz	Auto Tune
140 Start Free 240 Stop Free 340 Stop Free 440 Stop Free 540 Stop Free 640 Stop Free 740 Freq Offsee 0 Scale Typ Center 6.2650 GHz #VBW 50 MHz* Span 1.600 GHz 840 Stop Free 100	6.00			<u>^ 1</u>					Center Freq 6.265000000 GHz
34.0 Stop Free 34.0 Stop Free 44.0 Stop Free 54.0 Stop Free 55.0 Stop Free 7.0 Stop Free 50.0 Stop Free 7.0 Stop Free 64.0 Stop Free 64.0 Stop Free 64.0 Stop Free <td>-4.00</td> <td></td> <td>~~~~</td> <td>- for your</td> <td></td> <td></td> <td></td> <td></td> <td>Start Fred 5.465000000 GH:</td>	-4.00		~~~~	- for your					Start Fred 5.465000000 GH:
440 160.00000 MH 540 160.00000 MH 640 160.00000 MH 640 160.00000 MH 740 160.0000 MH 740 160.0000 MH 740 160.0000 MH 740 160.0000 MH <	-24.0								Stop Free 7.065000000 GH:
640 640 0 H 740 740 500 GHz Center 6.2650 GHz Span 1.600 GHz #Res BW 4 MHz #VBW 50 MHz*	-44.0								CF Step 160.000000 MH <u>Auto</u> Mar
Center 6.2650 GHz #Res BW 4 MHz #VBW 50 MHz* Sweep 2.667 ms (1001 pts)									Freq Offse 0 H
	Center 6.2650 GHz						Span 1.	600 GHz	Scale Type
	#Res BW 4 MHz		#VBW 50 MH	Z		Sweep 2.	.667 ms (1	001 pts)	

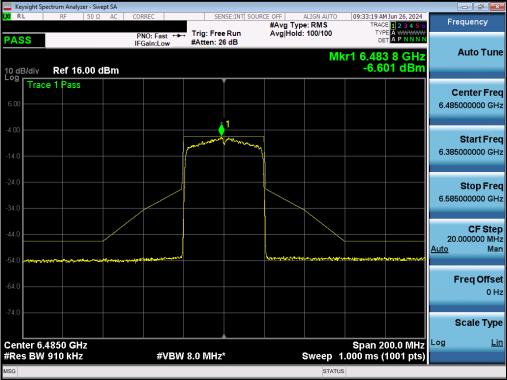
Plot 7-249. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 31)



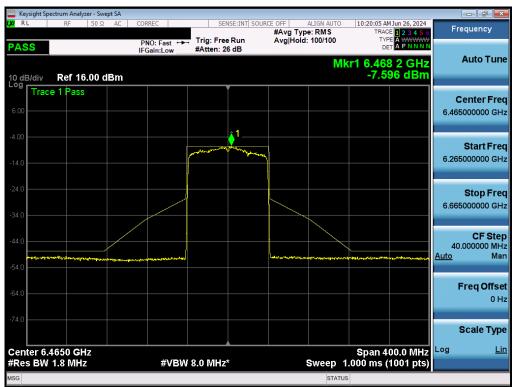
Plot 7-250. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 105)

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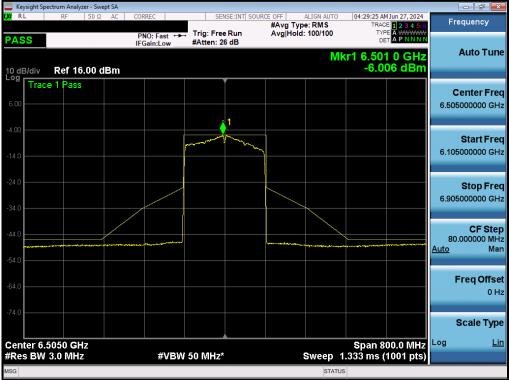
Plot 7-251. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 107)



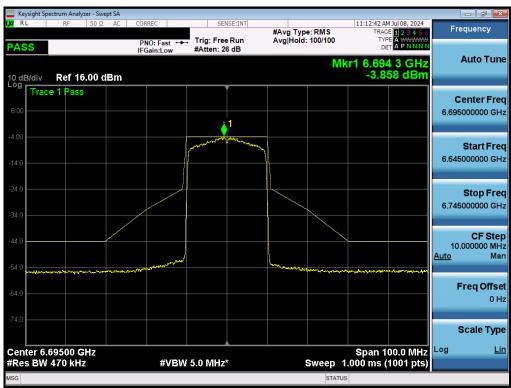
Plot 7-252. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 103)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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Plot 7-253. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 6) - Ch. 111)

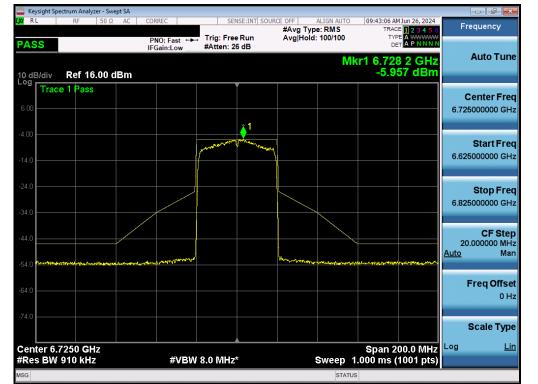


Plot 7-254. In Band Emissions Plot MIMO ANT1 (20MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 149)

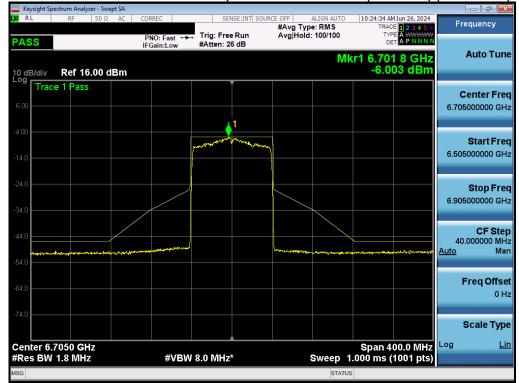
FCC ID: A3LSMX920		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 404 of 277
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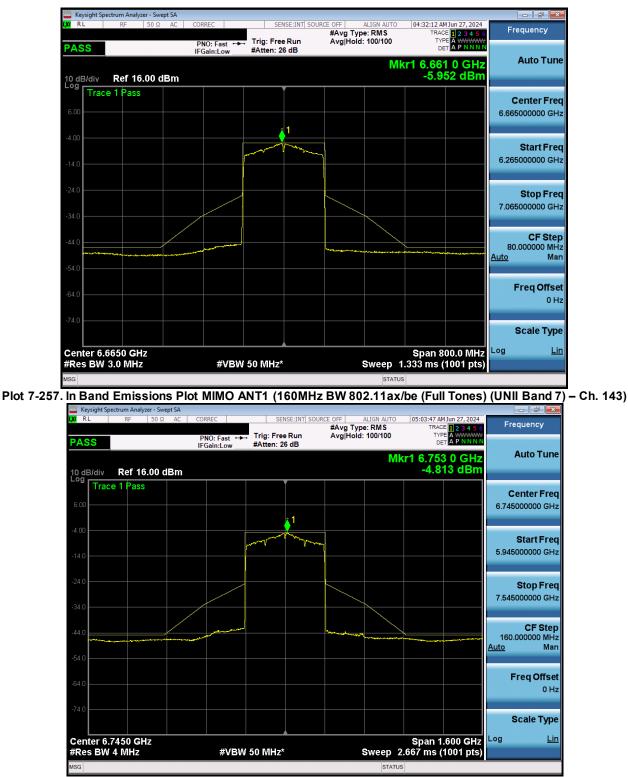
Plot 7-255. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 155)



Plot 7-256. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 7) - Ch. 151)

FCC ID: A3LSMX920		MEASUREMENT REPORT		
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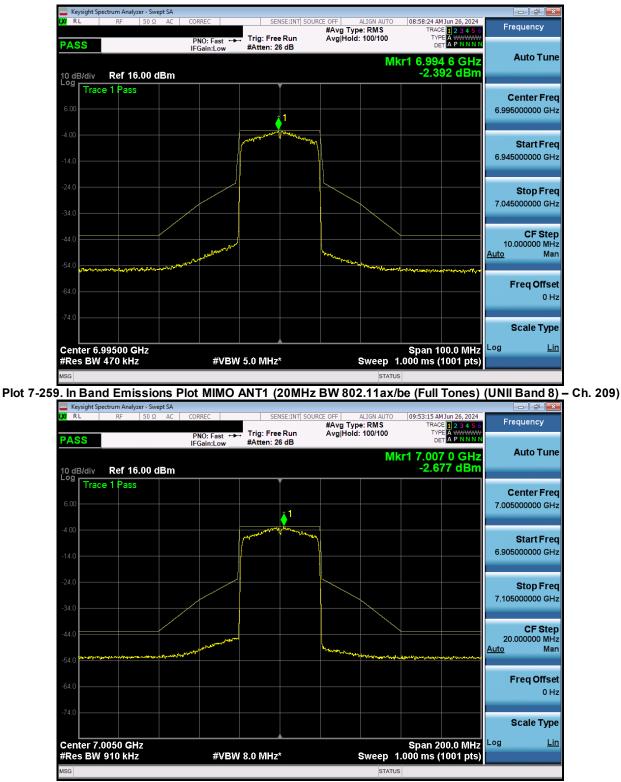




Plot 7-258. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (Full Tones) (UNII Band 7) – Ch. 159)

FCC ID: A3LSMX920		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 of 077
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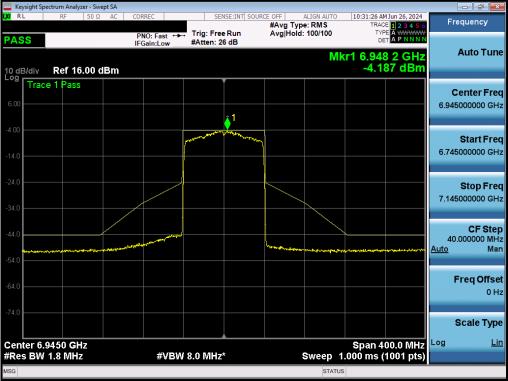




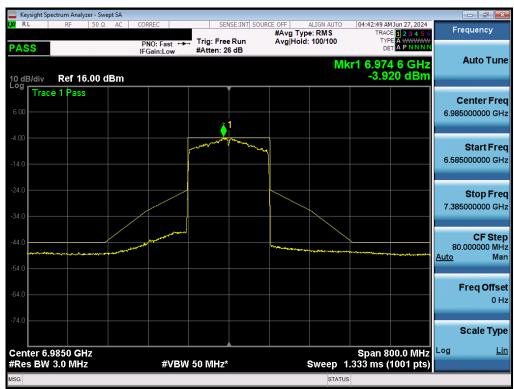
Plot 7-260. In Band Emissions Plot MIMO ANT1 (40MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 211)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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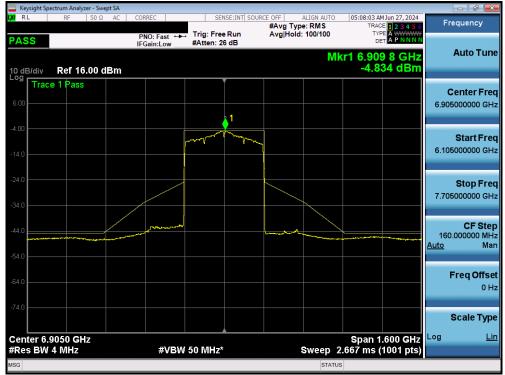
Plot 7-261. In Band Emissions Plot MIMO ANT1 (80MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 199)



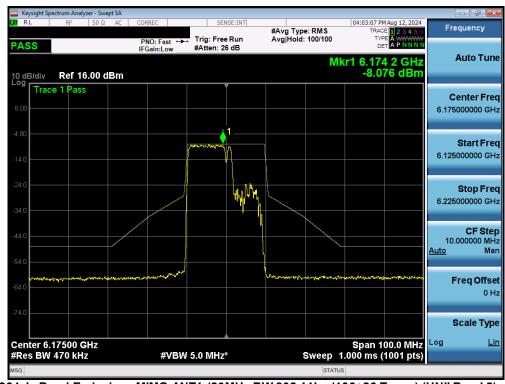
Plot 7-262. In Band Emissions Plot MIMO ANT1 (160MHz BW 802.11ax/be (Full Tones) (UNII Band 8) - Ch. 207

FCC ID: A3LSMX920		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dama 109 of 077
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Plot 7-263. In Band Emissions Plot MIMO ANT1 (320MHz BW 802.11be (Full Tones) (UNII Band 8) - Ch. 191)



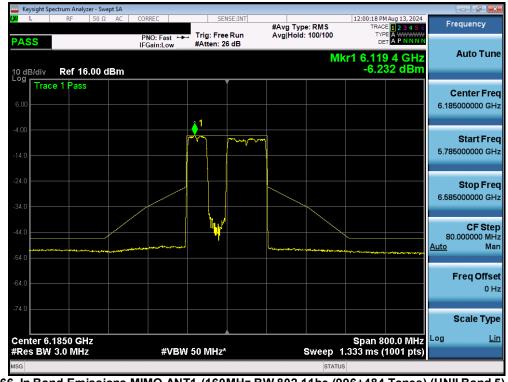
Plot 7-264. In Band Emissions MIMO ANT1 (20MHz BW 802.11be (106+26 Tones) (UNII Band 5) - Ch. 45)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA					
L RF 50 Ω A	C CORREC	SENSE:INT	#Avg Type: RMS	11:51:41 AM Aug 13, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	DET A P N N N	
10 dB/div Ref 16.00 dBn			M	kr1 6.127 4 GHz -5.682 dBm	Auto Tune
6.00		<u>^</u> 1			Center Freq 6.145000000 GHz
-4.00		had here and here			Start Freq 5.945000000 GHz
-24.0		h			Stop Freq 6.345000000 GHz
-44.0		м М			CF Step 40.000000 MHz <u>Auto</u> Man
-64.0					Freq Offset 0 Hz
-74.0				Span 400.0 MHz	Scale Type
Center 6.1450 GHz #Res BW 1.8 MHz	#VBW	8.0 MHz*	Sweep 1	Span 400.0 MHz .000 ms (1001 pts)	
MSG			STATUS	3	

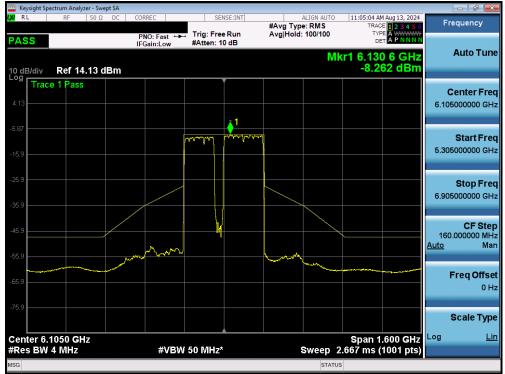
Plot 7-265. In Band Emissions MIMO ANT1 (80MHz BW 802.11be (484+242 Tones) (UNII Band 5) - Ch. 39)



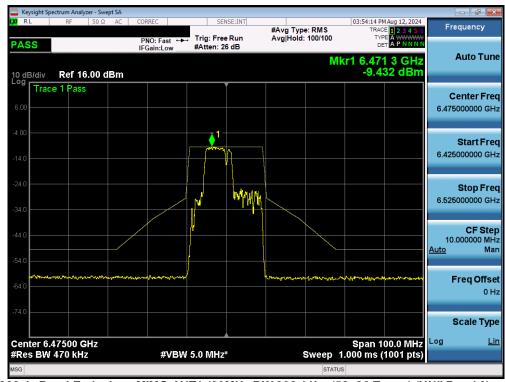
Plot 7-266. In Band Emissions MIMO ANT1 (160MHz BW 802.11be (996+484 Tones) (UNII Band 5) - Ch. 47)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 200 of 277
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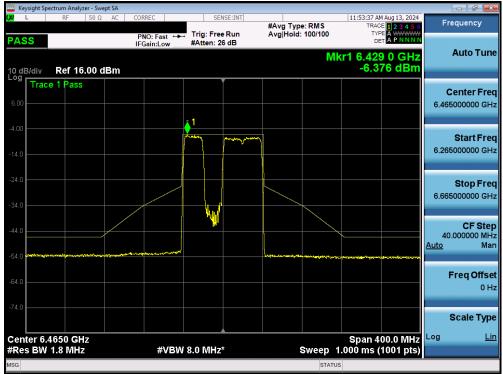
Plot 7-267. In Band Emissions MIMO ANT1 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 5) - Ch. 31)



Plot 7-268. In Band Emissions MIMO ANT1 (20MHz BW 802.11be (52+26 Tones) (UNII Band 6) - Ch. 105)

	FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
	Test Report S/N:	Test Dates:	EUT Type:	Dage 201 of 277
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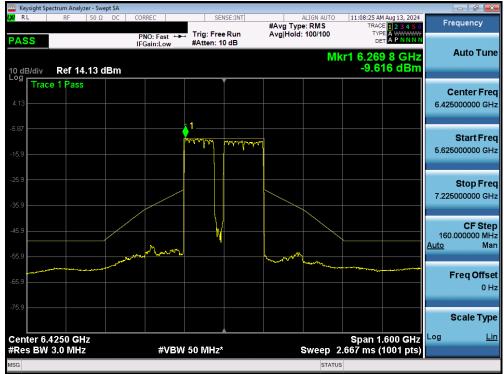
Plot 7-269. In Band Emissions MIMO ANT1 (80MHz BW 802.11be (484+242 Tones) (UNII Band 6) - Ch. 103)



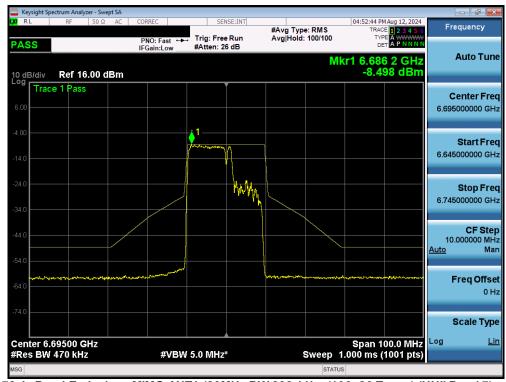
Plot 7-270. In Band Emissions MIMO ANT1 (160MHz BW 802.11be (996+484 Tones) (UNII Band 6) - Ch. 111)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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Plot 7-271. In Band Emissions MIMO ANT1 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 6) - Ch. 95)



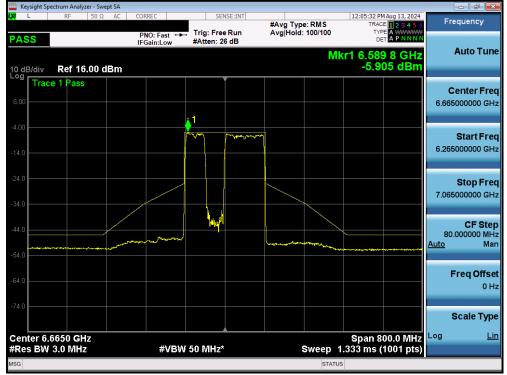
Plot 7-272. In Band Emissions MIMO ANT1 (20MHz BW 802.11be (106+26 Tones) (UNII Band 7) - Ch. 149)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-273. In Band Emissions MIMO ANT1 (80MHz BW 802.11be (484+242 Tones) (UNII Band 7) - Ch. 151)



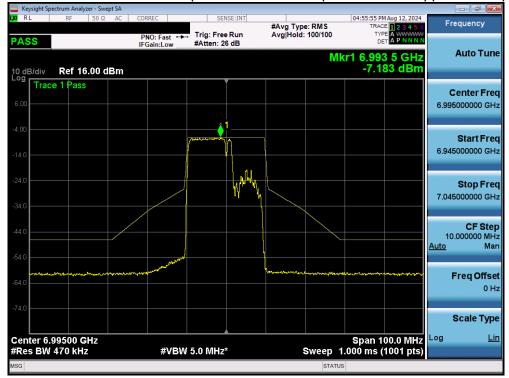
Plot 7-274. In Band Emissions MIMO ANT1 (160MHz BW 802.11be (996+484 Tones) (UNII Band 7) - Ch. 143)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-275. In Band Emissions MIMO ANT1 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 7) - Ch. 159)



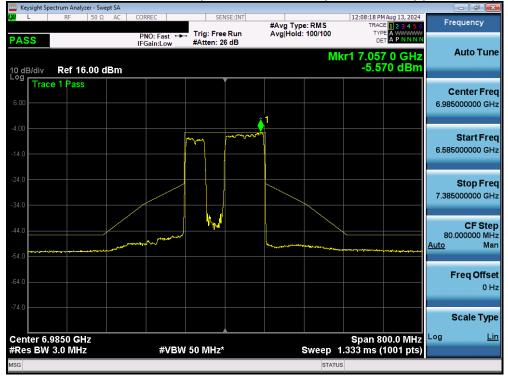
Plot 7-276. In Band Emissions MIMO ANT1 (20MHz BW 802.11be (106+26 Tones) (UNII Band 8) - Ch. 209)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dawa 005 of 077
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Plot 7-277. In Band Emissions MIMO ANT1 (80MHz BW 802.11be (484+242 Tones) (UNII Band 8) - Ch. 199)



Plot 7-278. In Band Emissions MIMO ANT1 (160MHz BW 802.11be (996+484 Tones) (UNII Band 8) - Ch. 207)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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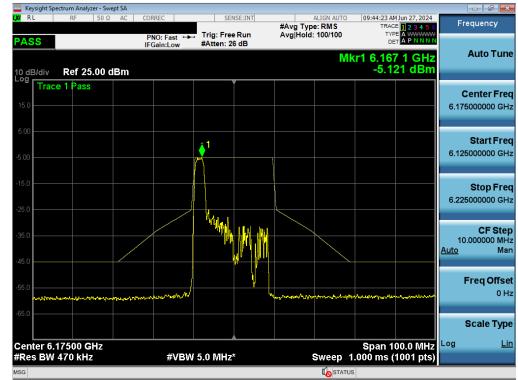




Plot 7-279. In Band Emissions MIMO ANT1 (320MHz BW 802.11be (2*996+484 Tones) (UNII Band 8) - Ch. 191)

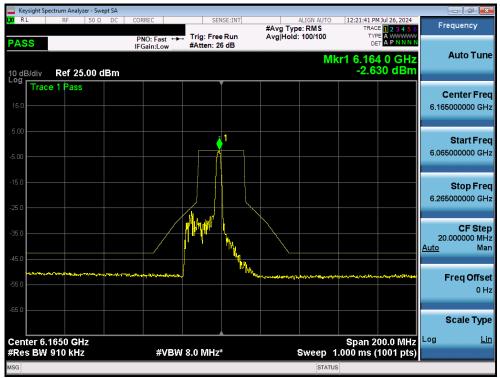
FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 207 of 277
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7.5.2 MIMO Antenna-2 In Band Emission Measurements

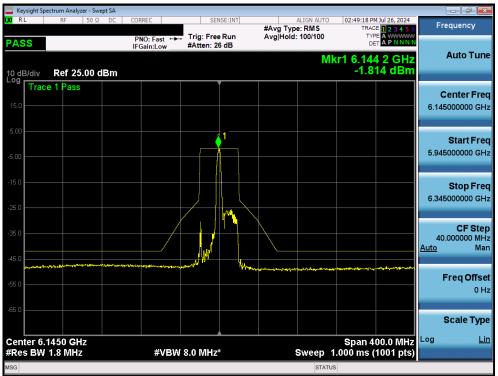




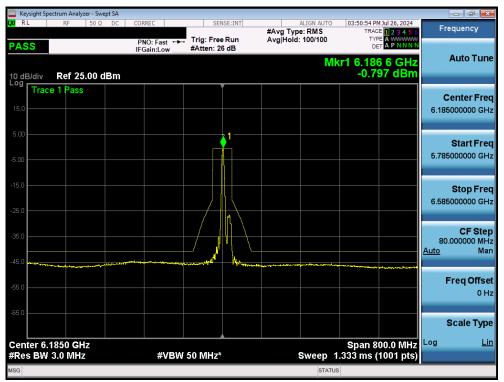
Plot 7-281. In Band Emissions Plot MIMO ANT2 (40MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 43)

FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-282. In Band Emissions Plot MIMO ANT2 (80MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 39)



Plot 7-283. In Band Emissions Plot MIMO ANT2 (160MHz BW 802.11ax/be (26 Tones) (UNII Band 5) - Ch. 47)

FCC ID: A3LSMX920		MEASUREMENT REPORT	
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