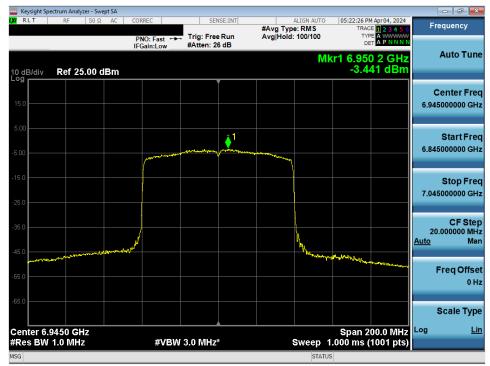


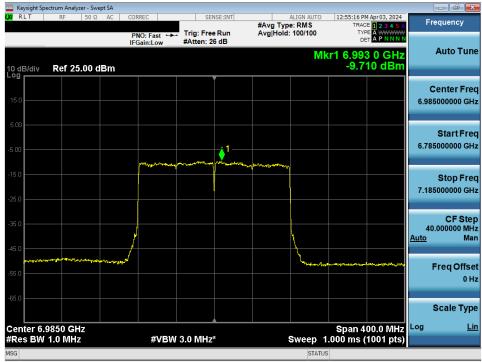
Plot 7-119. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 211)



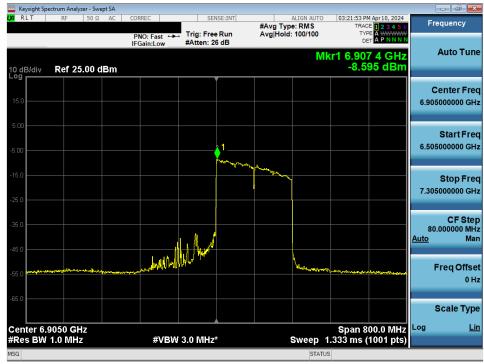
Plot 7-120. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 199)

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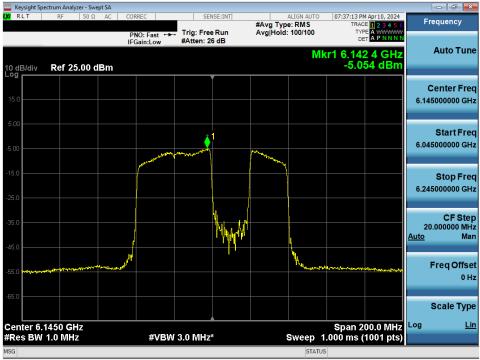
Plot 7-121. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 207)



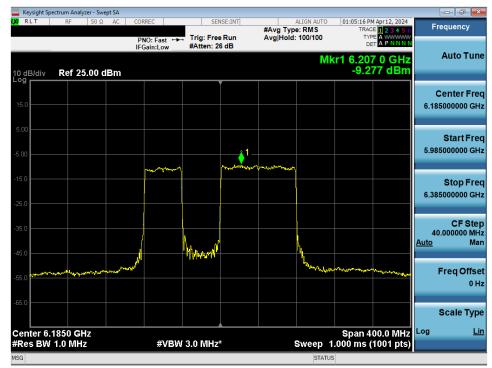
Plot 7-122. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802. 11be (Full Tones) (UNII Band 8) – Ch. 191)

I	FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-123. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) - Ch. 39)



Plot 7-124. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) – Ch. 47)

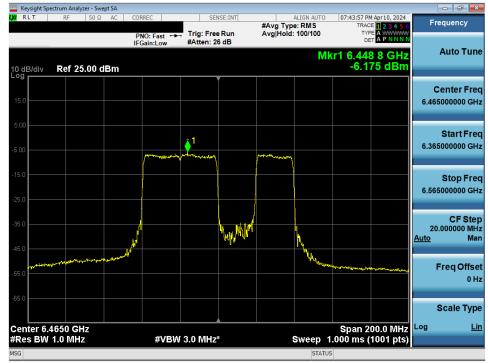
FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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	ctrum Analyzer - Swep												- 6 ×
L <mark>XI</mark> RLT	RF 50 Ω	AC CC	DRREC		SEN	NSE:INT	-	#Avg Typ	ALIGN AUTO		PM Apr11, 2024 ACE 1 2 3 4 5 6	F	requency
10 dB/div	Ref 25.00 dl	IF	PNO: Fast Gain:Low		rig: Free Atten: 20			Avg Hold:	100/100	Т	DO 2 GHz 303 dBm		Auto Tune
15.0													Center Freq 5000000 GHz
5.00						1—						5.70	Start Freq 5000000 GHz
-15.0			ar and a star		<u>, 1</u> , -, -, 1, -, -, 1, -, -, -, 1, -, -, -, -, 1, -, -, -, -, -, -, -, -, -, -, -, -, -,							6.50	Stop Freq 5000000 GHz
-35.0												8 <u>Auto</u>	CF Step 0.000000 MHz Man
-55.0	a ang aga an ang ang ang ang ang ang ang	لىمەتىرىي تە <mark>رىپىدى</mark> يىنى	/					Mongalian	and the second	undunthau II. Mirin	k/j=laftefrenskeurgestgesteur		Freq Offset 0 Hz
-65.0 Center 6.1	050 GHz									Snan	800.0 MHz		Scale Type <u>Lin</u>
#Res BW			#VE	3W 3.0	) MHz	k			Sweep	1.333 ms	(1001 pts)		
MSG									STAT	JS			

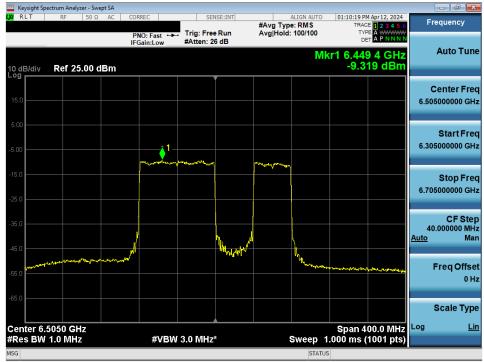
Plot 7-125. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 5) - Ch. 31)



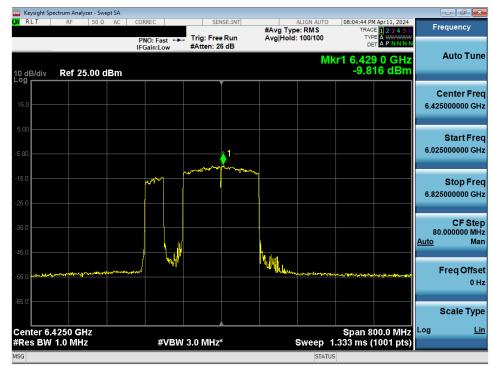
Plot 7-126. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 6) - Ch. 103)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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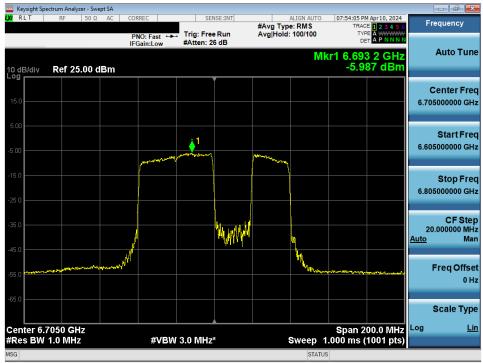
Plot 7-127. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 6) - Ch. 111)



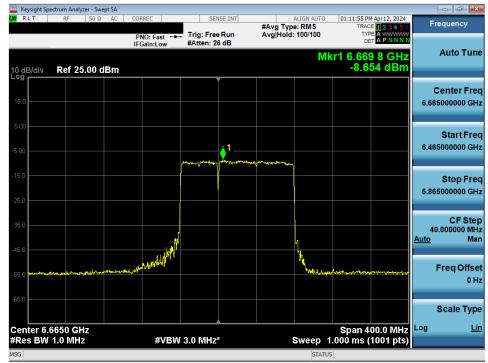
Plot 7-128. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 6) - Ch. 95)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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Plot 7-129. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) - Ch. 151)



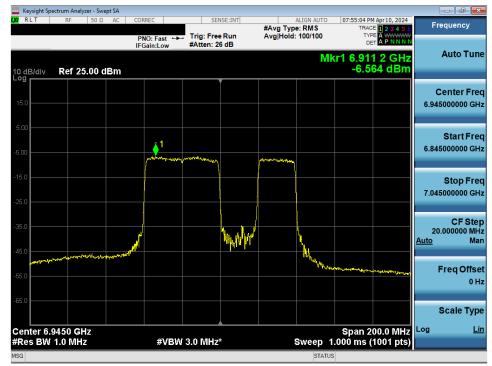
Plot 7-130. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) – Ch. 143)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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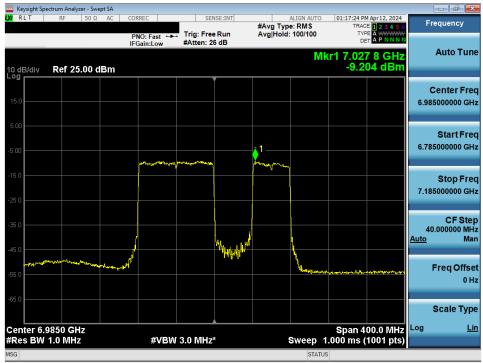
Plot 7-131. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 7) - Ch. 127)



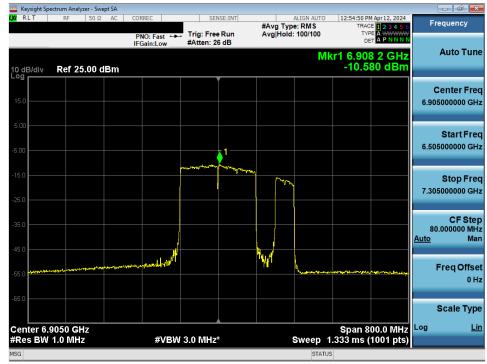
Plot 7-132. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 8) – Ch. 199)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT			
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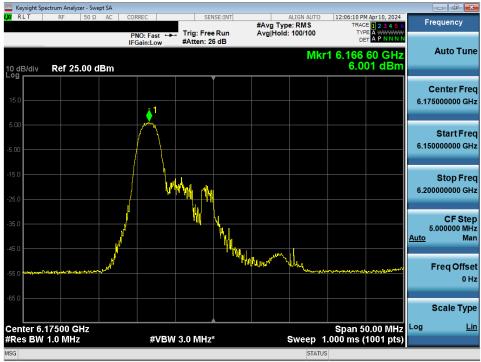
Plot 7-133. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 8) - Ch. 207)



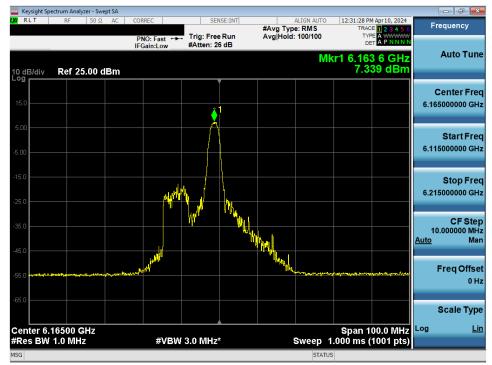
Plot 7-134. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 8) – Ch. 191)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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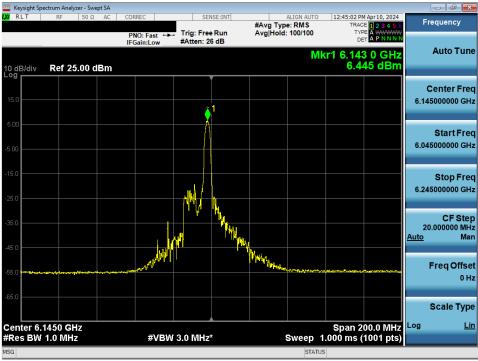
Plot 7-135. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 45) - SP



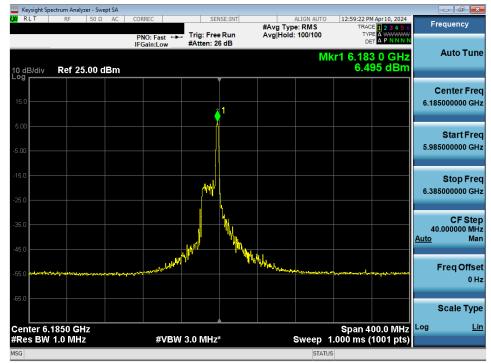
Plot 7-136. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 43) - SP

FCC ID: A3LNP960XMA		MEASUREMENT REPORT		
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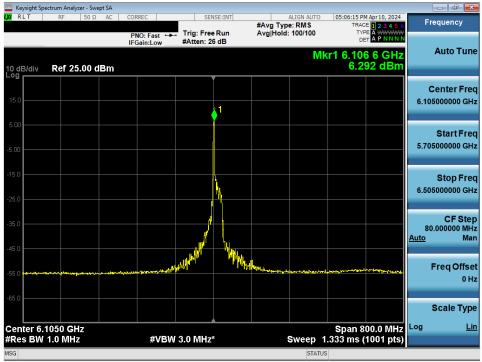
Plot 7-137. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 39) - SP



Plot 7-138. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 47) - SP

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-139. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 31) - SP



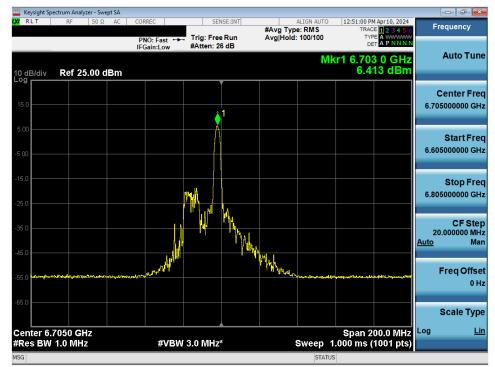
Plot 7-140. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be (26 Tone) (UNII Band 7) – Ch. 149) – SP

FCC ID: A3LNP960XMA		MEASUREMENT REPORT			
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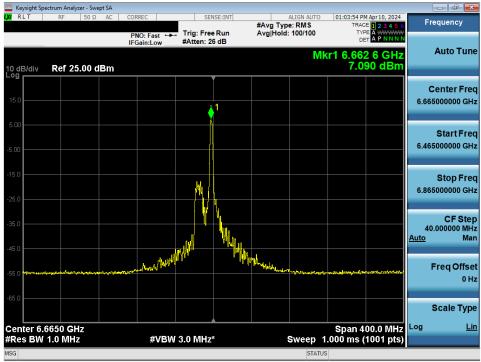
Plot 7-141. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 155) - SP



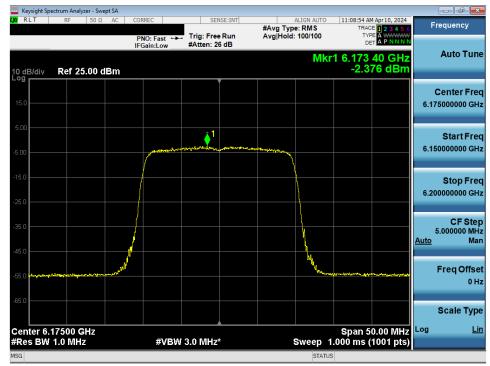
Plot 7-142. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 151) - SP

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-143. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 143) - SP



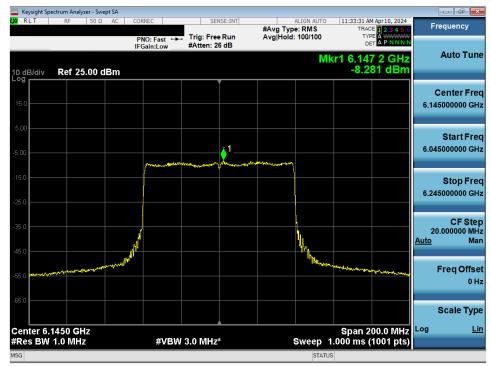
Plot 7-144. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 45) - SP

	FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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	trum Analyzer - Swep										
LXU RLT	RF 50 Ω	AC COF	RREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		M Apr10, 2024	Fre	equency
			NO:Fast ↔ Gain:Low	Trig: Fre #Atten: 2		Avg Hold:	: 100/100	TYI Di			Auto Tune
10 dB/div Log	Ref 25.00 dl	Bm					MI	(r1 6.18 -4.8	1 6 GHz 61 dBm		Auto Tune
15.0											enter Freq 6000000 GHz
-5.00			for the second s	24 Martin Martin Strawn	journe	n n n n n n n n n n n n n n n n n n n				6.115	Start Freq
-15.0										6.215	Stop Freq 5000000 GHz
-35.0										10. <u>Auto</u>	CF Step 000000 MHz Man
-55.0 -	and a start of the	www.ardfill"					- Friday - Anna	-	and he was a second	F	Freq Offset 0 Hz
-65.0										د Log	Scale Type <u>Lin</u>
Center 6.1 #Res BW			#VB	V 3.0 MHz	*		Sweep 1	Span 1 000 ms (	00.0 MHz 1001 pts)	Log	<u></u>
MSG							STATU				

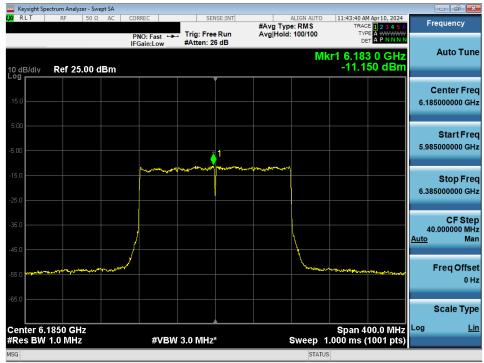
Plot 7-145. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 43) - SP



Plot 7-146. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 39) - SP

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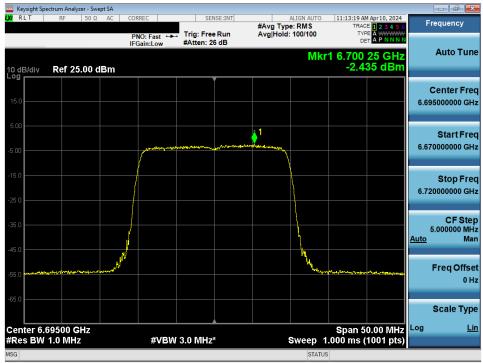
Plot 7-147. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 47) - SP



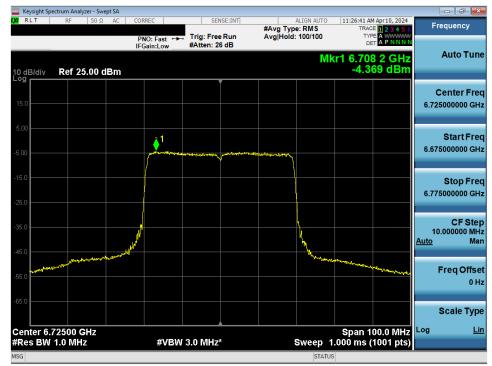
Plot 7-148. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 31) - SP

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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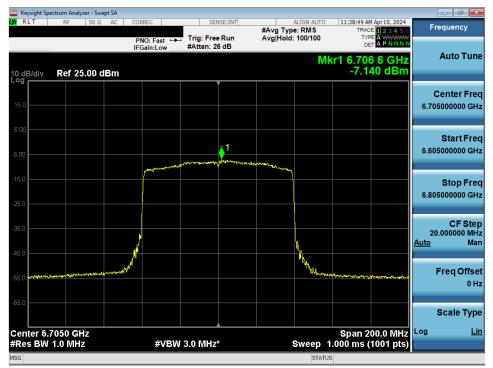
Plot 7-149. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 149) - SP



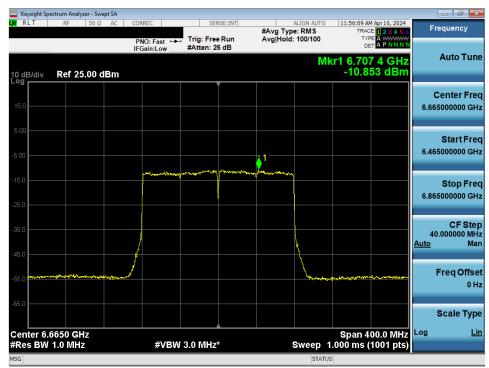
Plot 7-150. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 155) - SP

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Plot 7-151. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 151) - SP

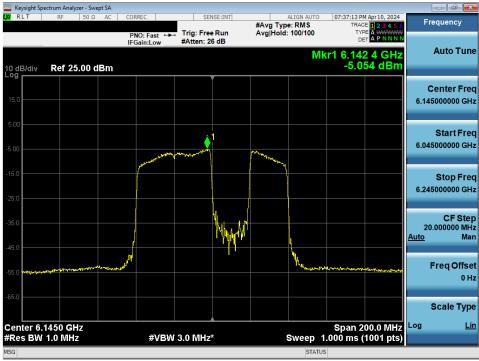


Plot 7-152. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 143) - SP

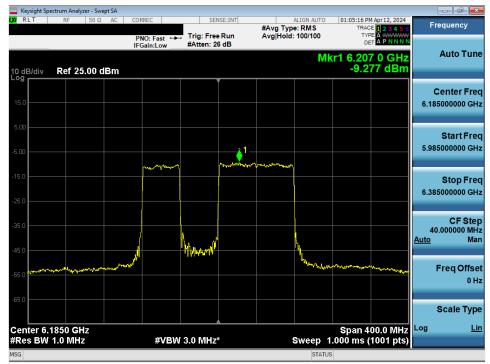
FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-153. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) - Ch. 39) - SP



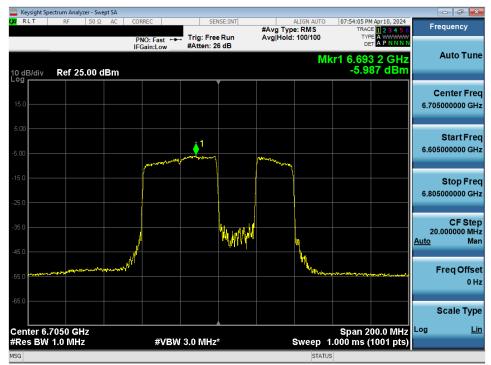
Plot 7-154. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) - Ch. 47) - SP

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	rum Analyzer - Swept SA						- 6 -
LX/RLT	RF 50 Ω AC	CORREC	SENSE:INT	#Avg Ty	ALIGN AUTO	07:41:29 PM Apr 11, 2 TRACE 1 2 3 4	
10 dB/div	Ref 25.00 dBm	PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB		I: 100/100	kr1 6.100 2 G -10.303 dE	
							Center Freq 6.105000000 GHz
5.00			1				Start Freq 5.705000000 GHz
-15.0		pr <sup>ray of the orange</sup>		••••••			Stop Freq 6.505000000 GHz
-35.0			June 1				CF Step 80.000000 MHz <u>Auto</u> Man
-55.0	and a sector of the sector of	manand		how when	4 manuales	sterfassfassfassfaster (* 1997)	Freq Offset 0 Hz
-65.0 Center 6.10	050 GHz					Span 800.0 M	Scale Type
#Res BW 1		#VBW	3.0 MHz*		Sweep	1.333 ms (1001 p	its)
MSG					STATU	JS	

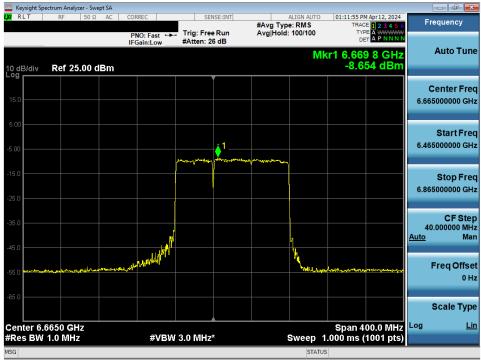
Plot 7-155. Power Spectral Density Plot MIMO ANT1 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 5) - Ch. 31) - SP



Plot 7-156. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) - Ch. 151) - SP

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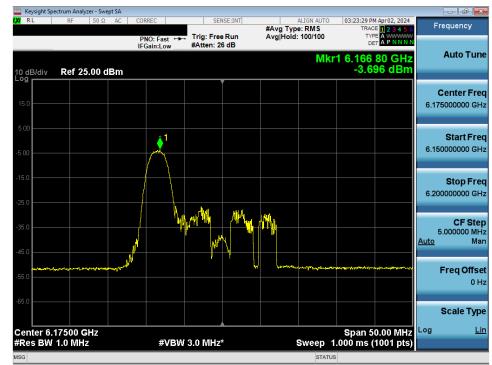




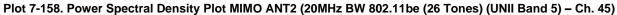
Plot 7-157. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) - Ch. 143) - SP

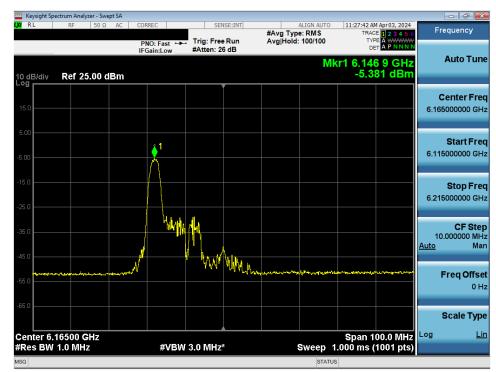
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## 7.4.2 MIMO Antenna-2 Power Spectral Density Measurements





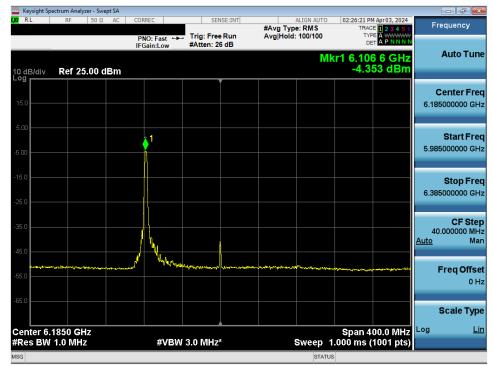
Plot 7-159. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 43)

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	m Analyzer - Swept SA							
(X/ RL	RF 50 Ω AC	CORREC	SENSE:IN	T #Avg Typ	ALIGN AUTO		Apr 03, 2024	Frequency
		PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 26 dB		: 100/100	TYP		Auto Tune
10 dB/div R	ef 25.00 dBm		· · · · · · · · · · · · · · · · · · ·			-7.1	17 dBm	
15.0								Center Freq
15.0								6.145000000 GHz
5.00								Start Freq
-5.00		<u></u> 1						6.045000000 GHz
		Å						
-15.0								Stop Freq
-25.0								6.245000000 GHz
								CF Step
-35.0								20.000000 MHz Auto Man
-45.0			u.A					
-55.0	*******	"W <sup>*</sup>	* William Law	and the second	Vilventereen	Malinanitet-merries	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Freq Offset
								0 Hz
-65.0								Scale Type
Conton 6 44						0.000		
Center 6.145 #Res BW 1.0		#VBW	3.0 MHz*		Sweep	Span 2 1.000 ms (	00.0 MHz 1001 pts)	
MSG					STAT	US		

Plot 7-160. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 39)



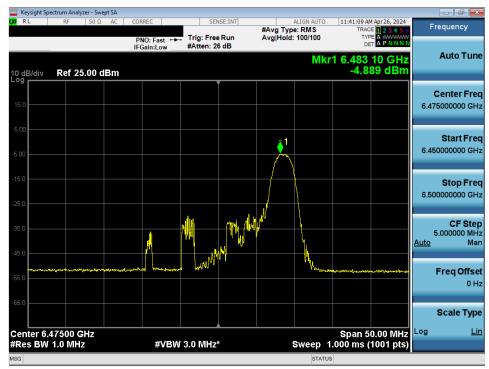
Plot 7-161. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 47)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 121 of 275		
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	Analyzer - Swept SA								
LX/ RL R	F 50 Ω AC	CORREC	SENS	E:INT	#Avg Typ	ALIGN AUTO e: RMS		M Apr10, 2024	Frequency
		PNO: Fast ↔ IFGain:Low	Trig: Free F #Atten: 26		Avg Hold:	100/100	TYF		Auto Tu
10 dB/div Re	ef 25.00 dBm					M	kr1 6.10 -5.4	6 6 GHz 05 dBm	Auto Tur
15.0									Center Fre 6.105000000 GH
-5.00			Ŷ	1					Start Fre 5.705000000 GH
-15.0									<b>Stop Fre</b> 6.505000000 GH
-35.0			۱۹ ۲						CF Ste 80.000000 MH <u>Auto</u> Ma
-45.0 -55.0	an a	and a second		Mutamasta	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		***	ullunluguyata	Freq Offs 0 H
-65.0									Scale Typ
Center 6.105 #Res BW 1.0		#VBW	/ 3.0 MHz*			Sweep	Span 8 1.333 ms (	00.0 MHz 1001 pts)	Log <u>L</u>
MSG						STAT			

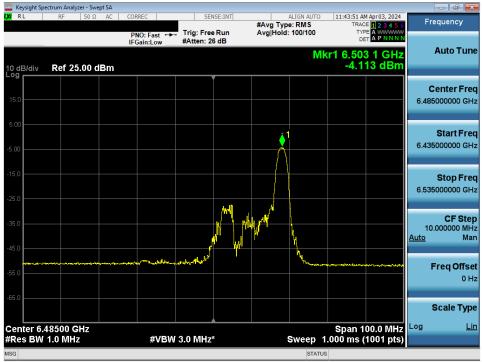
Plot 7-162. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 31)



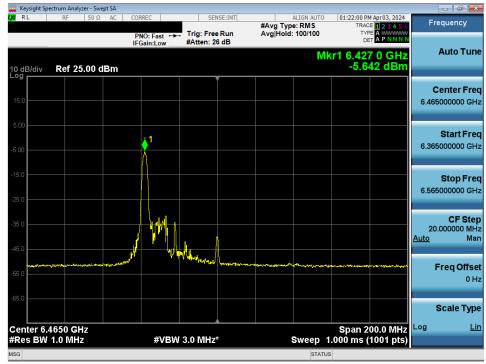
Plot 7-163. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 105)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Page 122 of 275			
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Plot 7-164. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 107)



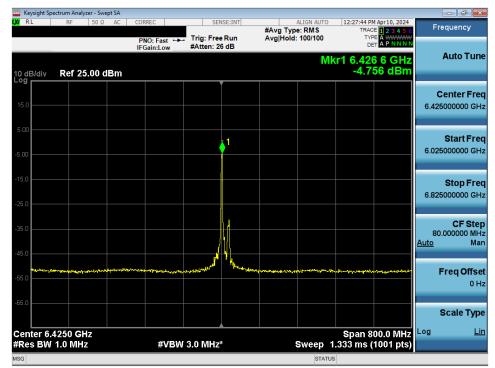
Plot 7-165. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (26 Tones) (UNII Band 6) – Ch. 103)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Page 123 of 275			
1M2401250007-08-R2.A3L	03/14/2024 - 05/01/2024	Portable Computing Device	Fage 123 01 275			
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	ctrum Analyzer - Sv									- 6 <b>x</b>
LX/IRL	RF 50 S	AC AC	CORREC	SEI	ISE:INT	#Avg Ty	ALIGN AUTO		M Apr 04, 2024 DE <b>1 2 3 4 5 6</b>	Frequency
10 dB/div	Ref 25.00	dBm	PNO: Fast + IFGain:Low	→ Trig: Free #Atten: 2			d: 100/100	۳۲ ۵ 1kr1 6.58		Auto Tune
15.0										Center Freq 6.505000000 GHz
-5.00							<b>^</b> 1			Start Freq 6.305000000 GHz
-15.0										<b>Stop Freq</b> 6.705000000 GHz
-35.0										CF Step 40.000000 MHz <u>Auto</u> Man
-55.0	Erstense-Alterstenstenser		sputhermarks			and the second	Real Providence	****	Mangemeensterde	<b>Freq Offset</b> 0 Hz
-65.0 Center 6.5	050 GHz							Span 4	00.0 MHz	<b>Scale Type</b> Log <u>Lin</u>
#Res BW			#VB	W 3.0 MHz	k		Sweep	1.000 ms	(1001 pts)	
MSG							STAT	rus		

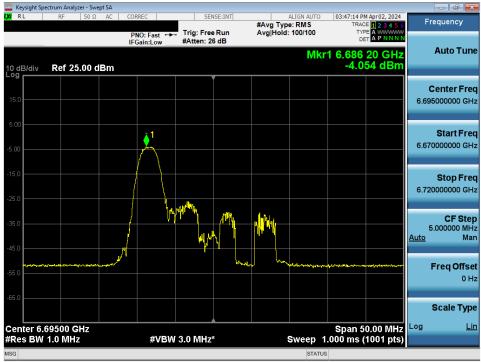
Plot 7-166. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 111)



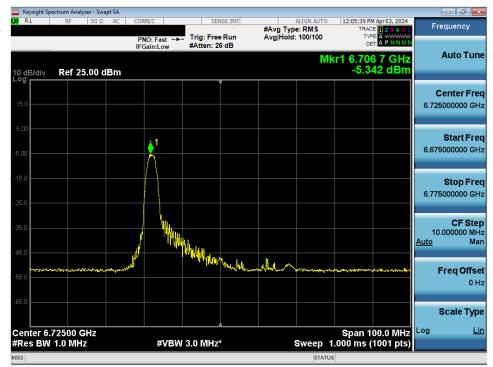
Plot 7-167. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 95)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT				
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Plot 7-168. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 149)



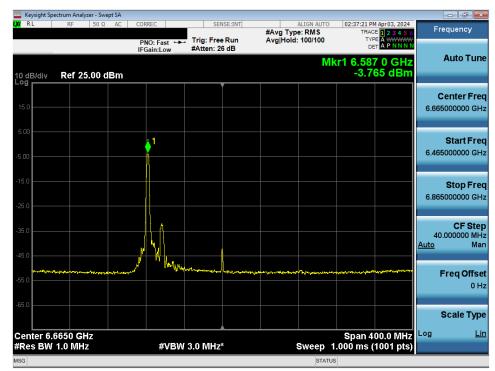
Plot 7-169. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 155)

	FCC ID: A3LNP960XMA		MEASUREMENT REPORT			
	Test Report S/N:	Test Dates:	EUT Type:	Page 125 of 275		
	1M2401250007-08-R2.A3L	03/14/2024 - 05/01/2024	Portable Computing Device	Fage 125 01 275		
,	© 2024 ELEMENT			V 9.0 02/01/2019		



	ectrum Analyzei											- 6 🔀
LXI RL	RF	50 Ω AC	CORREC		SEN	ISE:INT	#Avg Typ	ALIGN AUTO		Apr03, 2024	Fre	equency
			PNO: I IFGain:	Fast 🔸	Trig: Free #Atten: 2		Avg Hold	: 100/100	TYP			Auto Tune
10 dB/div Log	Ref 25.0	00 dBm			,				-6.2	29 dBm		
15.0												enter Freq
											6.705	600000 GHz
5.00			<u>* 1</u>									Start Freq
-5.00			_ <mark>}</mark> `								6.605	000000 GHz
-15.0												Stop Freq
-25.0											6.805	000000 GHz
-35.0												CF Step
-45.0			Ņ	lust.							20. <u>Auto</u>	.000000 MHz Man
	www.	manpan	. N	Μ	hillinger	Lunger	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	موسورون المحاسبية العجا	What and the stand of the stand	and and an	F	req Offset
-55.0												0 Hz
-65.0											9	Scale Type
Center 6.	7050 CHz								Snan 2	00.0 MHz	Log	Lin
#Res BW				#VBW	3.0 MHz	¢		Sweep	3 pair 2 1.000 ms (	1001 pt <u>s)</u>		
MSG								STATL				

Plot 7-170. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 151)



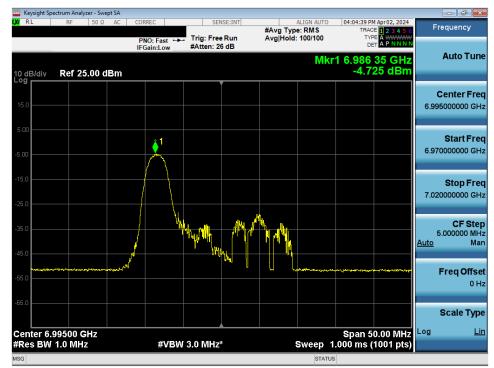
Plot 7-171. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 143)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Page 126 of 275			
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LXI RL RF 50 Ω					
10 00 31	AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	12:30:43 PM Apr10, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	TYPE A WWWWW DET A P N N N N	Auto Tune
10 dB/div Ref 25.00 dl	Зm		M	kr1 6.586 6 GHz -4.512 dBm	Auto Tune
15.0					Center Freq 6.585000000 GHz
-5.00		<b>↓</b> 1			<b>Start Freq</b> 6.185000000 GHz
-15.0					<b>Stop Freq</b> 6.985000000 GHz
-35.0					CF Step 80.000000 MHz <u>Auto</u> Man
-45.0	hay may be and all all the set of	man have	<sup>ามา</sup> ปีฟ้าสีรับสาวรูโกงระเหต่อหารับกับรับได้	hand and the state of the state	Freq Offset 0 Hz
-65.0					Scale Type
Center 6.5850 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz*	Sweep	Span 800.0 MHz 1.333 ms (1001 pts)	Log <u>Lin</u>
MSG			STATU		

Plot 7-172. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 127)



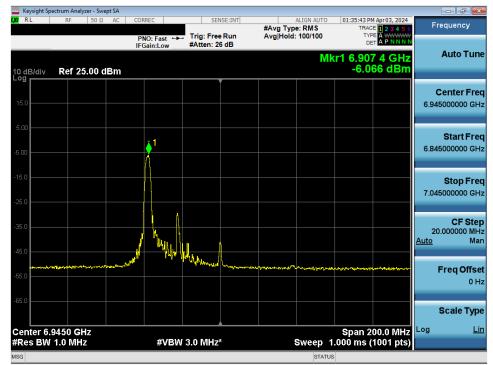
Plot 7-173. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 209)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	t Dates: EUT Type:	
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	ectrum Analyzer - Swept					- 6 💌
L <mark>XI</mark> RL	RF 50 Ω	AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:03:04 PM Apr 03, 2024 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 25.00 dB	PNO: Fast ↔ IFGain:Low	<ul> <li>Trig: Free Run #Atten: 26 dB</li> </ul>	Avg Hold: 100/100	Ikr1 6.987 0 GHz -6.866 dBm	Auto Tune
15.0						Center Freq 7.005000000 GHz
-5.00		<u></u> 1				Start Freq 6.955000000 GHz
-15.0						<b>Stop Freq</b> 7.055000000 GHz
-35.0						<b>CF Step</b> 10.000000 MHz <u>Auto</u> Man
-55.0	996796294-76693996996-768997	e se	WWWWWWWWWWW	harmen an	#1-40-37%#*****#81004#1000##31098##4 <b>9</b> #	Freq Offset 0 Hz
	00500 GHz				Span 100.0 MHz	Scale Type
#Res BW	1.0 MHz	#VBI	W 3.0 MHz*		1.000 ms (1001 pts)	
MSG				STAT	US	

Plot 7-174. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 211)



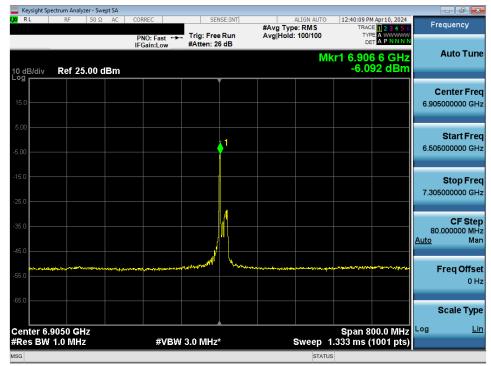
Plot 7-175. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 199)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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PNO: Fast       Trig: Free Run (FGain:Low       #Avg Type: RMS Avg[Hold: 100/100       Trace       Processor         Mkr1 6.907 0 GHz -4.015 dBm       Mkr1 6.907 0 GHz -4.015 dBm       Auto Tune         0 dB/div       Ref 25.00 dBm       Center Freq 6.99500000 GHz       Center Freq 6.99500000 GHz         500       1		ectrum Analyzer - Swe									[	
PNO: Fast       Trig: Free Run #Atten: 26 dB       AvgiHoid: 100/100       Trig: Free Run #Atten: 26 dB       Auto Tune         500       1	L <mark>XI</mark> RL	RF 50 Ω	AC CC	ORREC	SE	NSE:INT	#Ava Tva				Fre	quency
Log 150 500 500 500 500 500 500 500			I					: 100/100	۲۷۱ ام <b>1kr1 6.90</b>			Auto Tune
150       Center Freq         500       1	10 dB/div	Ref 25.00 c	iBm						-4.0	15 dBm		
-500       1												
250 250 360 450 450 450 450 450 450 450 45	5.00			€ 1								
40.000000 MHz 40.00000 MHz 50 Man 50												
-550     -550     -550     -570												000000 мн <sup>і</sup> з
Center 6.9850 GHz Span 400.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)	يدفلاني	and and a second se	wh	" "Nyinggan I San Tangang San Tangang San Tangang San Tang	Art Marine Anton Service		~,%enr <sup>as</sup> te-10 <sup>8</sup> 1etration <sup>4</sup>	a the start of the	Jaholaholi (1990) Alerongh	undar de 199 <sub>6</sub> hered	F	•
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)	-65.0											
				#\/B)	V 3.0 MHz	*		Sween	Span 4	00.0 MHz	Log	Lin
	#RES DW			#VDV	e 3.0 19112					roor prs)		

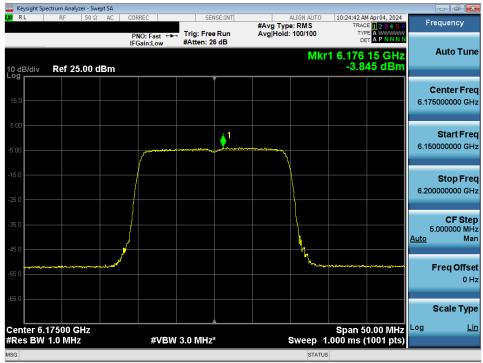
Plot 7-176. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 207)



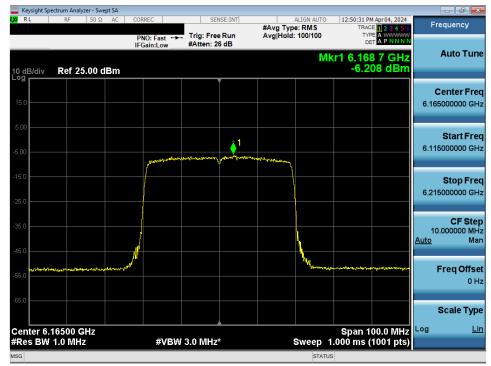
Plot 7-177. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (26 Tones) (UNII Band 8) – Ch. 191)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager		
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Plot 7-178. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 45)



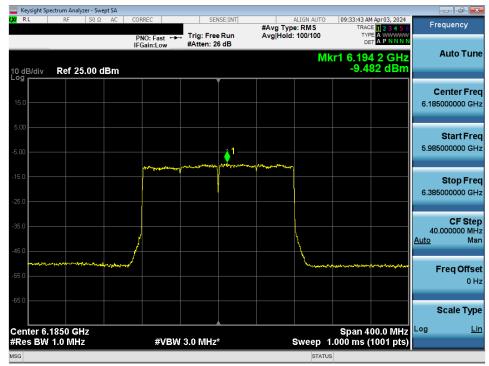
Plot 7-179. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (Full Tone) (UNII Band 5) – Ch. 43)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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	ım Analyzer - Swept SA					- 6 💌
LXI RL	RF 50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:52:05 PM Apr 04, 2024 TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	DET A PNNN	
10 dB/div	tef 25.00 dBm			М	kr1 6.150 8 GHz -3.557 dBm	Auto Tune
15.0						Center Freq 6.145000000 GHz
-5.00			<u></u> 1			Start Freq 6.045000000 GHz
-15.0						<b>Stop Freq</b> 6.245000000 GHz
-35.0		J.				CF Step 20.000000 MHz <u>Auto</u> Man
-55.0	and the second sec	10 <sup>04*</sup>			and a second reservable	Freq Offset 0 Hz
-65.0						Scale Type
Center 6.14 #Res BW 1.0		#VBV	V 3.0 MHz*	Sweep	Span 200.0 MHz 1.000 ms (1001 pts)	Log <u>Lin</u>
MSG					(bio)	

Plot 7-180. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 39)



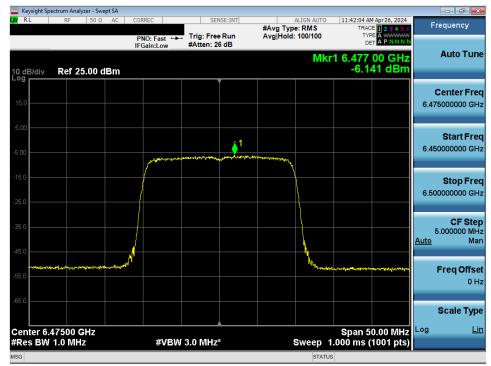
Plot 7-181. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (Full Tone) (UNII Band 5) – Ch. 47)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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	ctrum Analyzer - Swept SA	l .				- F <del>x</del>
L <mark>XI</mark> RL	RF 50 Ω A0	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast ↔ IFGain:Low	<ul> <li>Trig: Free Run #Atten: 26 dB</li> </ul>	Avg Hold: 100/100	TYPE A WWWWW DET A P N N N N	Auto Tune
10 dB/div Log	Ref 25.00 dBn	n	<b>•</b>		lkr1 6.088 2 GHz -10.073 dBm	
15.0						Center Freq 6.105000000 GHz
						8.10500000 GH2
5.00						Start Freq
-5.00			<u></u> 1			5.705000000 GHz
-15.0		and the second second	and the second se			Stop Freq
-25.0						6.505000000 GHz
-35.0						CF Step
			u <b></b> .	ł		80.000000 MHz <u>Auto</u> Man
-45.0	بالمسلحة معادم والماسين والماسية	and wat	March 1	Mun Malana and and and and and and and and and		Ere a Offeet
-55.0						Freq Offset 0 Hz
-65.0						Ocolo Trmo
						Scale Type
Center 6.′ #Res BW		#VBW	/ 3.0 MHz*	Sweep	Span 800.0 MHz 1.333 ms (1001 pts)	
MSG				STA	rus	

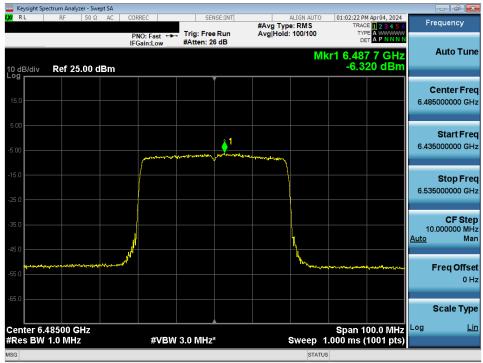
Plot 7-182. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (Full Tones) (UNII Band 5) - Ch. 31)



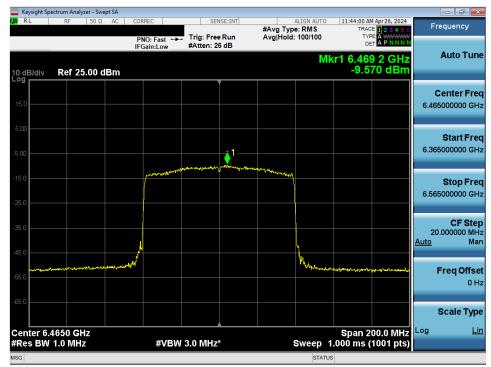
Plot 7-183. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (Full Tone) (UNII Band 6) – Ch. 105)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-184. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (Full Tone) (UNII Band 6) - Ch. 107)



Plot 7-185. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (Full Tone) (UNII Band 6) - Ch. 103)

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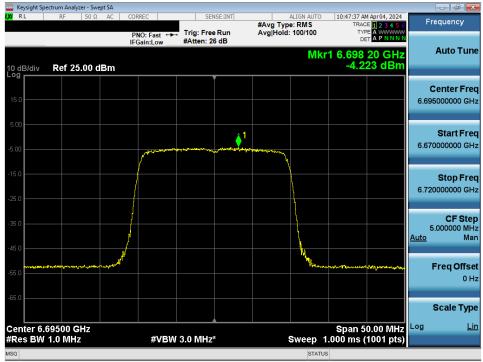
Plot 7-186. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (Full Tone) (UNII Band 6) - Ch. 111)



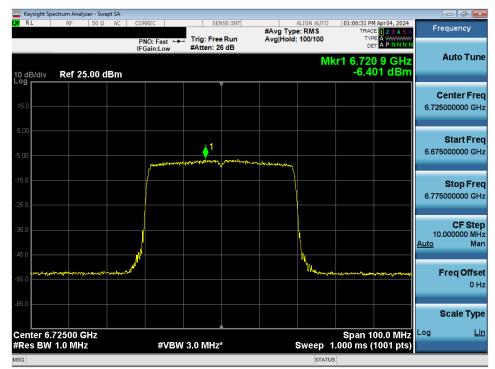
Plot 7-187. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (Full Tones) (UNII Band 6) – Ch. 95)

FCC ID: A3LNP960XMA		Approved by: Technical Manager			
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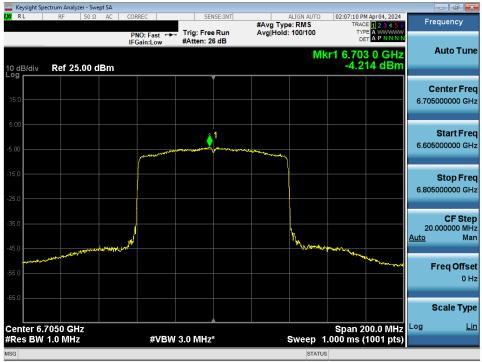
Plot 7-188. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (Full Tone) (UNII Band 7) - Ch. 149)



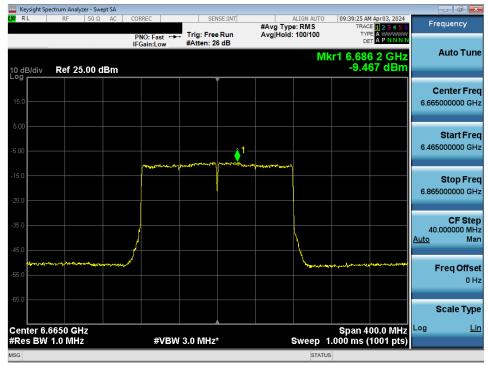
Plot 7-189. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (Full Tone) (UNII Band 7) - Ch. 155)

FCC ID: A3LNP960XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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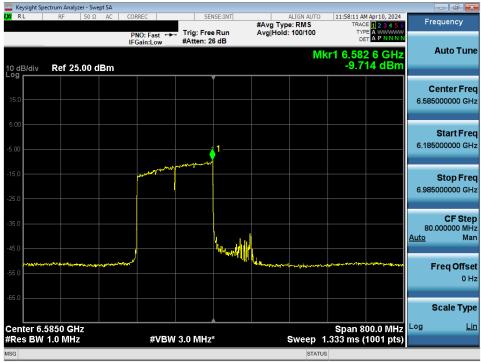
Plot 7-190. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (Full Tone) (UNII Band 7) - Ch. 151)



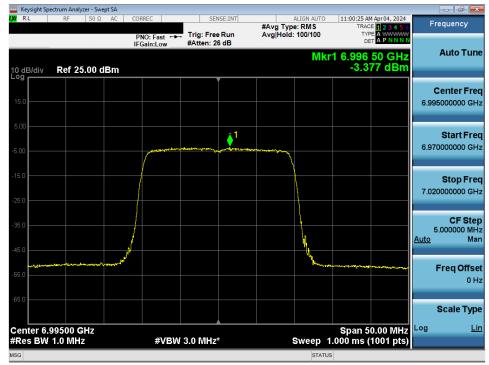
Plot 7-191. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (Full Tone) (UNII Band 7) – Ch. 143)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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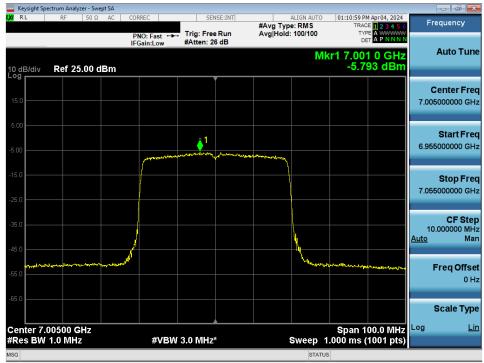
Plot 7-192. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (Full Tone) (UNII Band 7) - Ch. 127)



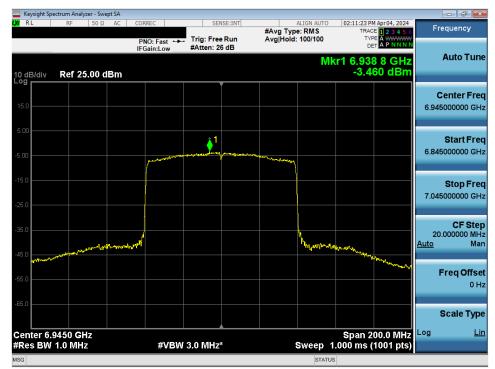
Plot 7-193. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802. 11be (Full Tone) (UNII Band 8) – Ch. 209)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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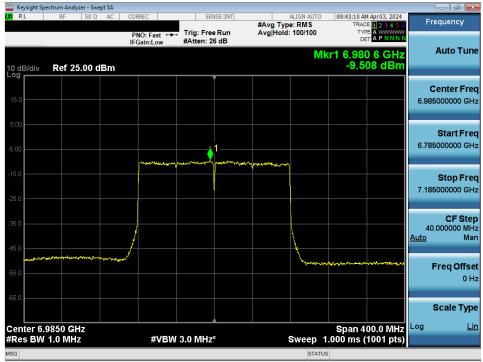
Plot 7-194. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 211)



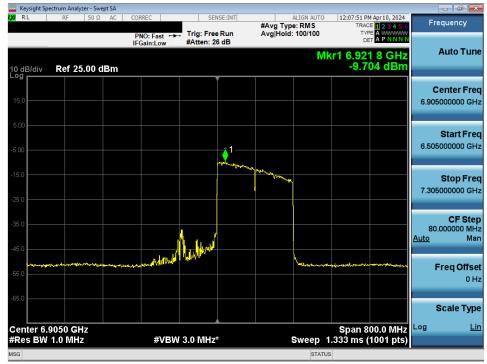
Plot 7-195. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 199)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-196. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802. 11be (Full Tone) (UNII Band 8) - Ch. 207)



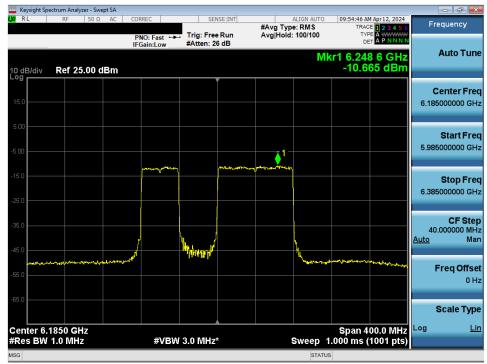
Plot 7-197. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802. 11be (Full Tones) (UNII Band 8) – Ch. 191)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-198. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) - Ch. 39)



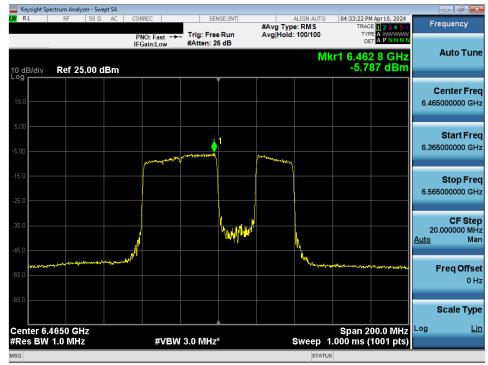
Plot 7-199. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) – Ch. 47)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	Dates: EUT Type:	
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	ctrum Analyzer - Swept SA					
LXI RL	RF 50 Ω A0	C CORREC	SENSE:INT	#Avg Type: RMS	0 04:26:26 PM Apr 11, 2024 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 25.00 dBn	PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold: 100/100	TYPE A PNNNN DET A PNNNN Akr1 6.098 6 GHz -11.058 dBm	Auto Tune
15.0						Center Freq 6.105000000 GHz
-5.00			1			<b>Start Freq</b> 5.705000000 GHz
-15.0			kennet and frankrike			<b>Stop Freq</b> 6.505000000 GHz
-35.0						CF Step 80.000000 MHz <u>Auto</u> Man
-55.0	purper and an and a second			Webered March and Part of the Contract of the	ungen aleralisen er fan de fan de fan fan de fan	<b>Freq Offset</b> 0 Hz
-65.0 Center 6.*					<b>ODALLOUD.0 MILLE</b>	Scale Type
#Res BW	1.0 MHz	#VBW	3.0 MHz*	Sweep	1.333 ms (1001 pts)	
MSG				STA	TUS	

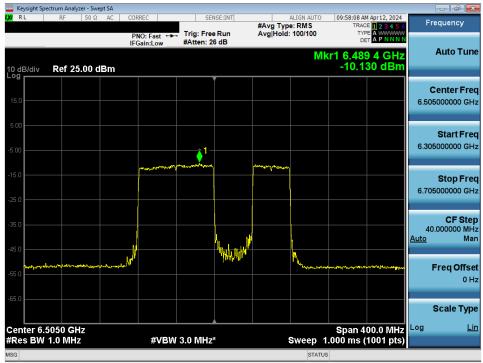
Plot 7-200. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 5) - Ch. 31)



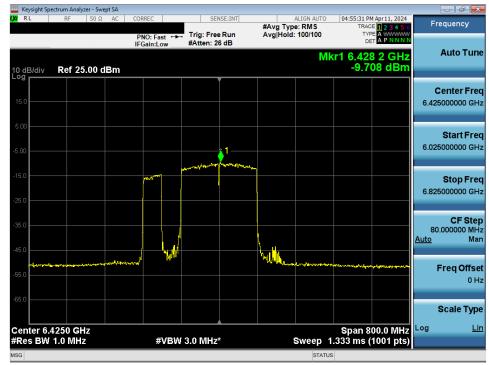
Plot 7-201. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 6) - Ch. 103)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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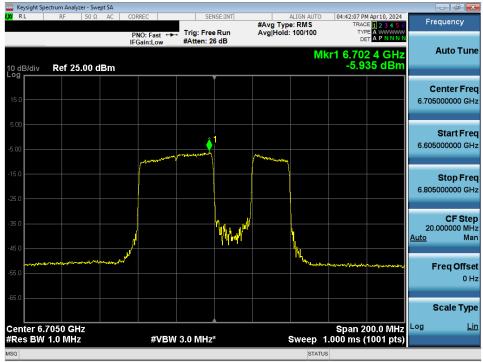
Plot 7-202. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 6) - Ch. 111)



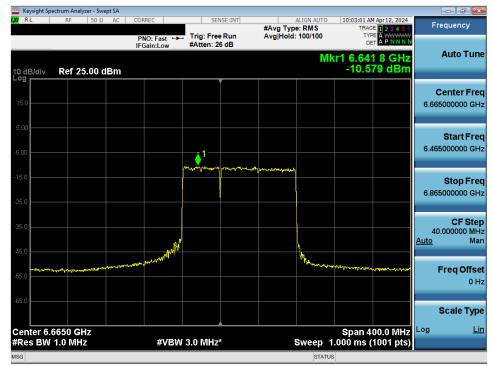
Plot 7-203. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 6) – Ch. 95)

FCC ID: A3LNP960XMA		Approved by: Technical Manager		
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Plot 7-204. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) - Ch. 151)



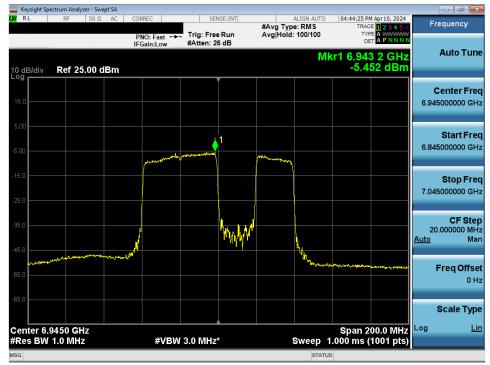
Plot 7-205. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) – Ch. 143)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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	ectrum Analyzer - Swe										- 6 💌
L <mark>XI</mark> RL	RF 50 Ω	AC	CORREC	SEI	NSE:INT	#Avg Typ			M Apr 12, 2024	Fr	equency
10 dB/div	Ref 25.00 c	iBm	PNO: Fast • IFGain:Low	Trig: Free #Atten: 2		Avg Hold:	100/100	۳۲ ۱kr1 6.56			Auto Tune
15.0											<b>Center Freq</b> 5000000 GHz
-5.00				 ∳1						6.18	<b>Start Freq</b> 5000000 GHz
-15.0			professor frank	and Ditantic the second						6.98	Stop Freq 5000000 GHz
-35.0					Here					80 <u>Auto</u>	CF Step .000000 MHz Man
-55.0	sugada da ana afa para ta d	i fræðer de særer				Umm-milium	teresterne tar	my monormited			Freq Offset 0 Hz
-65.0											Scale Type
Center 6.: #Res BW	5850 GHz 1.0 MHz		#VB	W 3.0 MHz	*		Sweep	Span 8 1.333 ms	00.0 MHz (1001 pts)	Log	<u>Lin</u>
MSG							STAT	US			

Plot 7-206. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 7) - Ch. 127)



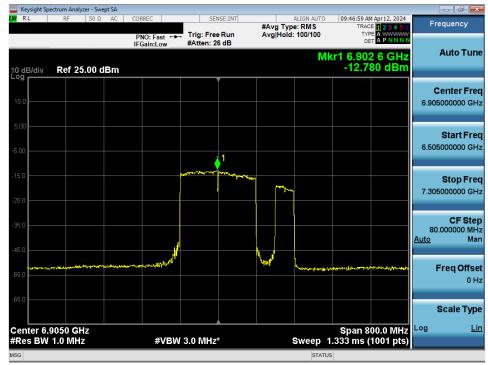
Plot 7-207. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 8) – Ch. 199)

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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	ectrum Analyzer - Swept										
L <mark>XI</mark> RL	RF 50 Ω	AC CORR	EC	SEN	SE:INT	#Avg Typ	ALIGN AUTO		M Apr 12, 2024	Fi	requency
10 dB/div	Ref 25.00 dE	IFGa	D: Fast ↔ ain:Low	Trig: Free #Atten: 26		Avg Hold:	: 100/100	דיז ס 1kr1 6.98			Auto Tune
15.0											<b>Center Freq</b> 5000000 GHz
-5.00			nash-hanalatin		1					6.78	Start Freq 5000000 GHz
-15.0						ann gerf Angrud				7.18	<b>Stop Freq</b> 5000000 GHz
-35.0					Winterford					40 <u>Auto</u>	<b>CF Step</b> 0.000000 MHz Man
-55.0	and a second	nonuluut			Jakobut, I		"Wenner	nnander mersen an bern	งสู <sup>1</sup> าวงากกับกัง <sub>จ</sub> าสม.		Freq Offset 0 Hz
-65.0 Center 6.9	9850 GHz							Span 4	00.0 MHz	Log	Scale Type <u>Lin</u>
#Res BW			#VBW	3.0 MHz*			Sweep	1.000 ms (	1001 pts)		
MSG							STAT	US			

Plot 7-208. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 8) - Ch. 207)



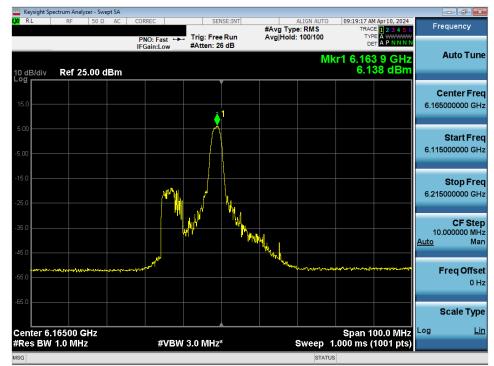
Plot 7-209. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 8) – Ch. 191)

FCC ID: A3LNP960XMA		MEASUREMENT REPORT			
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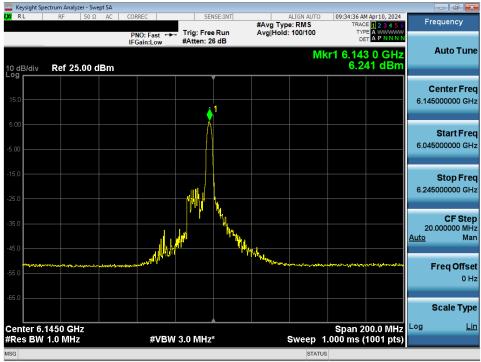
Plot 7-210. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 45) - SP



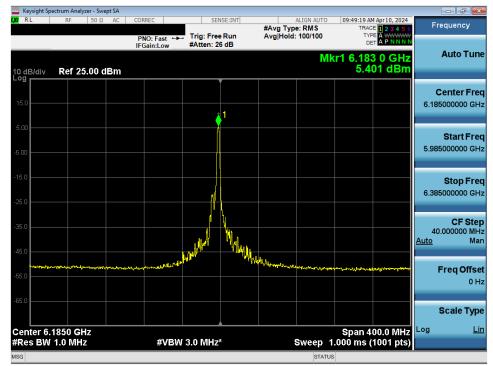
Plot 7-211. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 43) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-212. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 39) - SP



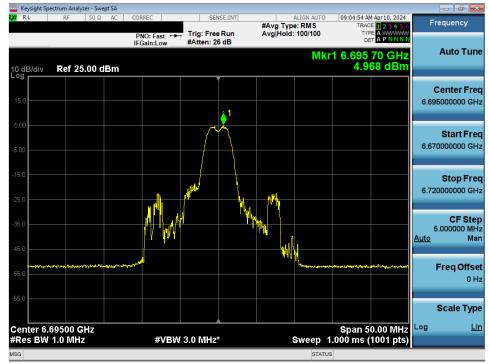
Plot 7-213. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 47) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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	ctrum Analyzer - Swep									
LX/IRL	RF 50 Ω	AC COR	REC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		Apr10, 2024	Frequency
			IO: Fast ↔ ain:Low	Trig: Free #Atten: 2		Avg Hold	: 100/100	TYP De		<b>.</b>
10 dB/div Log	Ref 25.00 d	Bm					Μ	kr1 6.10 5.8	6 6 GHz 46 dBm	Auto Tune
15.0					1					Center Freq 6.105000000 GHz
-5.00										Start Freq 5.705000000 GHz
-15.0										<b>Stop Freq</b> 6.505000000 GHz
-35.0										<b>CF Step</b> 80.000000 MHz <u>Auto</u> Man
-45.0 -55.0	toe.for an orthogram and an	langa pé <sup>t</sup> anan ( <sup>n</sup> aran 1	daameetiin faagaa faafaa	and the second	THE AND	W& work was		for farmer and the strends	Mr.M.InterAgertyTer	<b>Freq Offset</b> 0 Hz
-65.0										Scale Type
Center 6.′ #Res BW			#VBV	V 3.0 MHz	•		Sweep	Span 8 1.333 ms (	00.0 MHz 1001 pts)	Log <u>Lin</u>
MSG							STATU	IS		

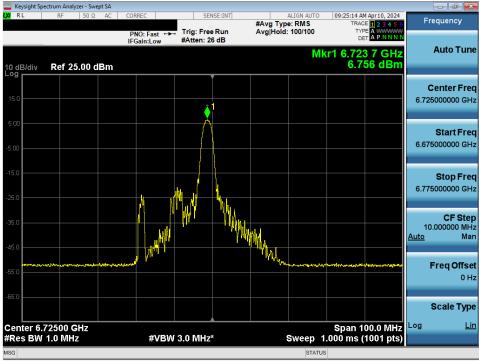
Plot 7-214. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (26 Tones) (UNII Band 5) - Ch. 31) - SP



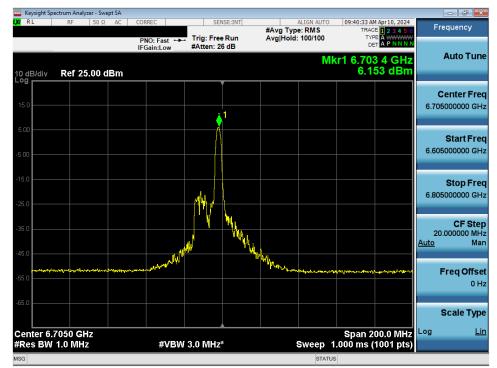
Plot 7-215. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 149) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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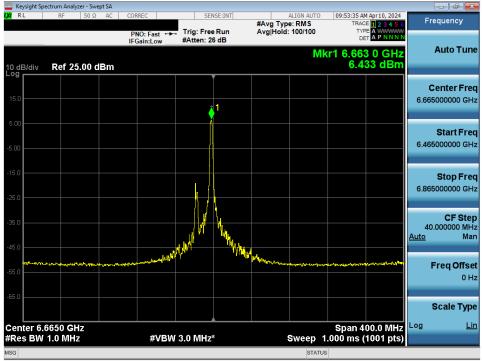
Plot 7-216. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 155) - SP



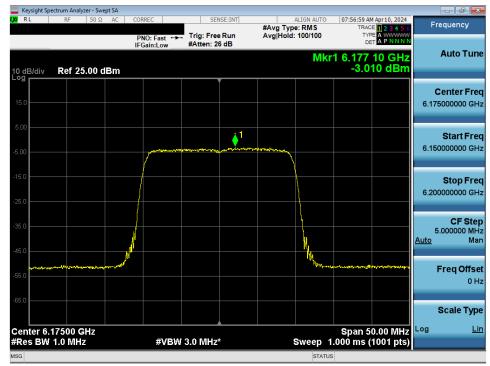
Plot 7-217. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 151) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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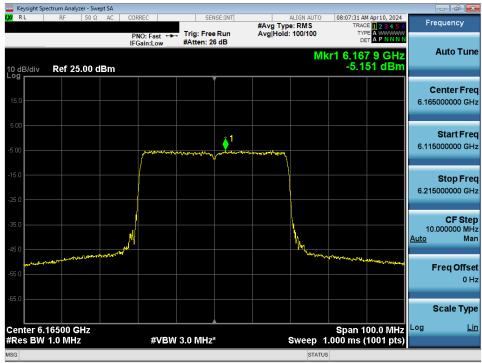
Plot 7-218. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (26 Tone) (UNII Band 7) - Ch. 143) - SP



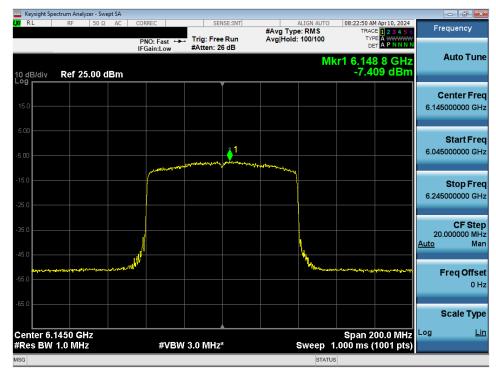
Plot 7-219. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be (Full Tones) (UNII Band 5) – Ch. 45) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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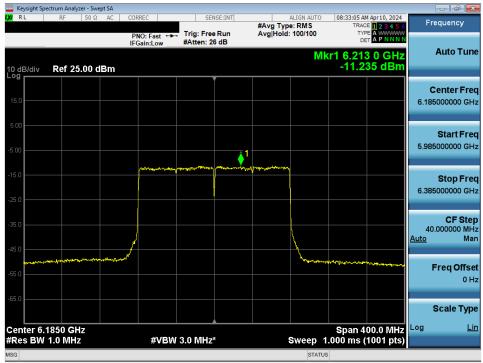
Plot 7-220. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 43) - SP



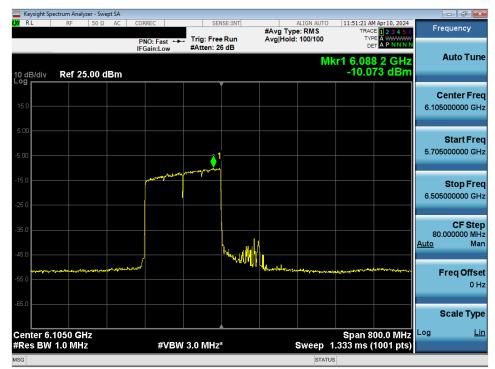
Plot 7-221. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 39) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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Plot 7-222. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 47) - SP



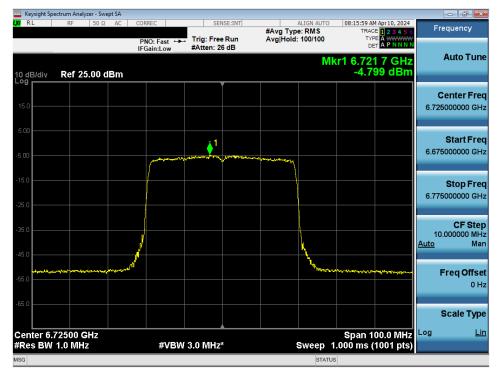
Plot 7-223. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (Full Tones) (UNII Band 5) - Ch. 31) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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	ctrum Analyzer - Swept										×
L <mark>XI</mark> RL	RF 50 Ω	AC CORRE	C	SEN	SE:INT	#Avg Typ	ALIGN AUTO E: RMS		M Apr10, 2024	Frequency	
			): Fast ↔ in:Low	Trig: Free #Atten: 26		Avg Hold:	100/100	TYI Di		Auto Tu	ne
10 dB/div Log	Ref 25.00 dE	3m					MK	r1 6.693 -3.1	15 GHz 34 dBm	Autoria	
15.0										Center Fr	
15.0										6.695000000 G	Hz
5.00				<mark>∲</mark> 1						Start Fr	
-5.00		/	and a second	ale all the second of the local second	an a	Marine and				6.670000000 G	Hz
-15.0										Stop Fr	eq
-25.0										6.720000000 G	Hz
-35.0							l			CF St	
-45.0		./								5.000000 M <u>Auto</u> N	lHz lan
-40.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mont					HI Man	han have been and	ghorn haven	Freq Offs	set
-55.0										•	Hz
-65.0										Scale Ty	pe
Center 6.0	69500 GHz							Span 5	0.00 MHz	-	Lin
#Res BW			#VBW	3.0 MHz*			Sweep	1.000 ms (	1001 pts)		
MSG							STATU	JS			

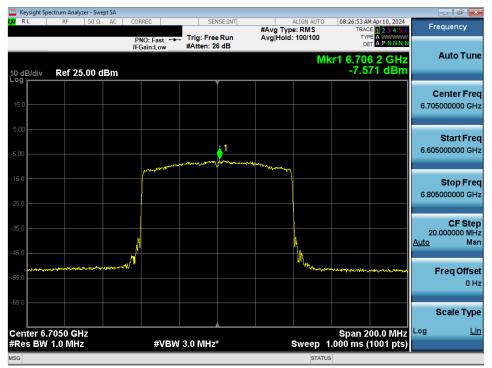
Plot 7-224. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 149) - SP



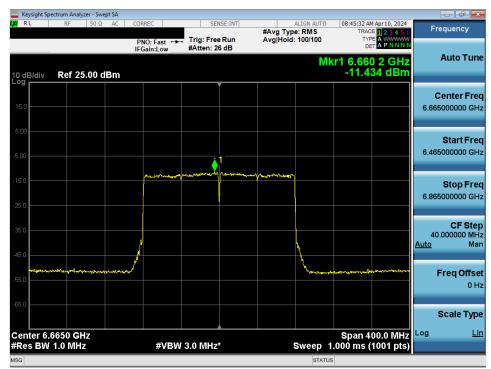
Plot 7-225. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 155) - SP

FCC ID: A3LNP960XMA		Approved by: Technical Manager	
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Plot 7-226. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 151) - SP

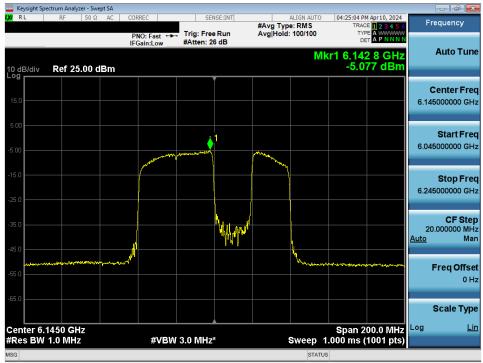


Plot 7-227. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (Full Tone) (UNII Band 7) - Ch. 143) - SP

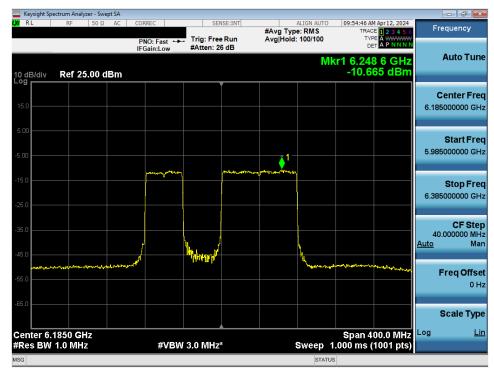
FCC ID: A3LNP960XMA		Approved by: Technical Manager				
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Plot 7-228. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 5) - Ch. 39) - SP



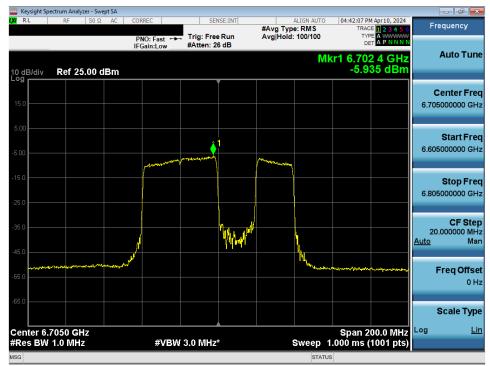
Plot 7-229. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 5) - Ch. 47) - SP

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	ectrum Analyzer - Swept SA							- 6 -
LXI RL	RF 50 Ω AC	CORREC	SENSE:INT	#Avg Ty	ALIGN AUTO		Apr11, 2024	Frequency
		PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Ho	ld: 100/100	TYP DE 1kr1 6.098		Auto Tune
10 dB/div Log	Ref 25.00 dBm					-11.0	58 dBm	
15.0								Center Fred 6.105000000 GH;
-5.00			î1					<b>Start Fred</b> 5.705000000 GHz
-15.0				****				<b>Stop Fred</b> 6.505000000 GH2
-35.0			hatel					CF Step 80.000000 MHz <u>Auto</u> Mar
-45.0	for the state control and start provided			Ne Marchanger	**************************************	ulles an an share by the share a	an the second second	Freq Offse 0 Ha
-65.0								Scale Type
Center 6. #Res BW		#\/D\/	3.0 MHz*		Swoon	Span 8 1.333 ms (*	00.0 MHz	Log <u>Lir</u>
#Res BW		#vBW	3.0 WHZ		Sweep		roo r pis)	
MSG					STAT	105		

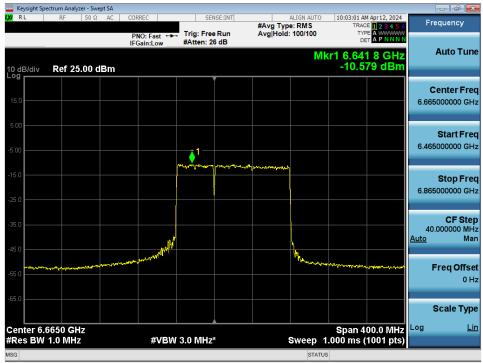
Plot 7-230. Power Spectral Density Plot MIMO ANT2 (320MHz BW 802.11be (2\*996+484 Tone) (UNII Band 5) - Ch. 31) - SP



Plot 7-231. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be (484+242 Tone) (UNII Band 7) - Ch. 151) - SP

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Plot 7-232. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be (996+484 Tone) (UNII Band 7) - Ch. 143) - SP

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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<sup>G1/20</sup> + 10<sup>G2/20</sup> + ... + 10<sup>GN/20</sup>)<sup>2</sup> / N<sub>ANT</sub>] dBi

#### Sample MIMO Calculation:

At 5935MHz in 802.11be (20MHz BW) mode, the average conducted power spectral density was measured to be -3.41 dBm for Antenna-1 and -4.81 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(-3.41 dBm + -4.81 dBm) = (0.456 mW + 0.330 mW) = 0.786 mW = -1.04 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 -1.04 dBm with directional gain of -0.61 dBi.

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

-1.04 dBm + -0.61 dBi = -1.65 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:
  - Set the span to encompass the entire 26 dB EBW of the signal. a)
    - Set RBW = same RBW used for 26 dB EBW measurement. b)
  - Set VBW ≥ 3 X RBW c)
  - d) Number of points in sweep  $\geq$  [2 X span / RBW].
  - Sweep time = auto. e)
  - f) Detector = RMS (i.e., power averaging)
  - Trace average at least 100 traces in power averaging (rms) mode. g)
  - Use the peak search function on the instrument to find the peak of the spectrum. h)
- 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:
  - Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the a) 26-dB point on either side of the carrier center frequency.)
  - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
  - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center. c)
- 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.



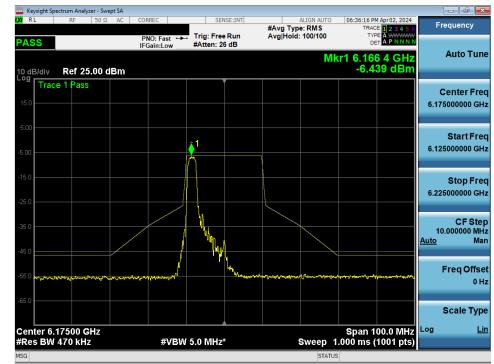
Figure 7-4. Test Instrument & Measurement Setup

## Test Notes

None.

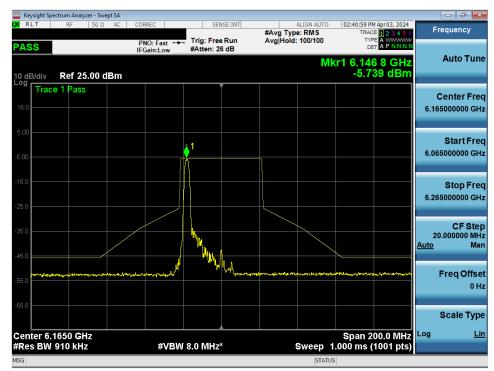
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# 7.5.1 MIMO Antenna-1 In-Band Emission Measurements





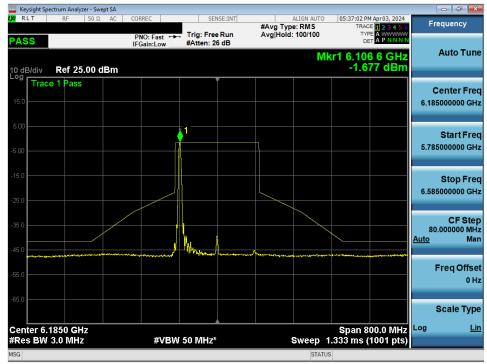
Plot 7-234. In-Band Emission Plot MIMO ANT1 (40MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 43)

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	ectrum Analyzer - Swe										×
LXI RLT	RF 50 Ω	AC C	DRREC	SEI	SE:INT	#Avg Typ	ALIGN AUTO		M Apr 03, 2024	Frequency	
PASS			PNO: Fast ↔ FGain:Low	Trig: Free #Atten: 2		Avg Hold	: 100/100	TYI Di		Auto Tu	ne
10 dB/div Log	Ref 25.00 c	lBm						-4.5	6 2 GHz 87 dBm		
	e 1 Pass									Center Fre	eq
15.0										6.145000000 G	Hz
5.00											
				<b>1</b>						Start Fre 5.945000000 G	
-5.00				1						3.343000000 G	
-15.0										Stop Fre	ea
				ļ						6.345000000 G	
-25.0											
-35.0				l						CF Ste 40.000000 M	
-45.0				N.				<u> </u>		<u>Auto</u> M	an
-40.0	-1810	a land garman		"MAG	Userson	وراوهور الراريدين والمحمد	**************************************		and the second	<b>F</b> 0#	
-55.0										Freq Offs	Hz
-65.0											
00.0										Scale Ty	pe
Center 6.	1450 GHz							Span 4	00.0 MHz	Log <u>L</u>	<u>_in</u>
#Res BW	1.8 MHz		#VBW	/ 8.0 MHz	*		Sweep 1	.000 ms (	1001 pts)		
MSG							STATU	5			

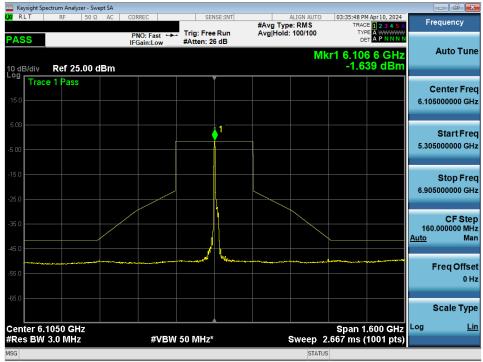
Plot 7-235. In-Band Emission Plot MIMO ANT1 (80MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 39)



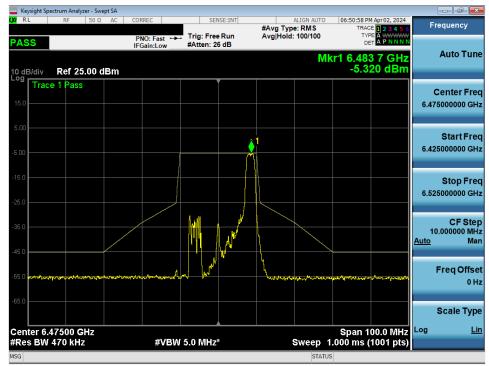
Plot 7-236. In-Band Emission Plot MIMO ANT1 (160MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 47)

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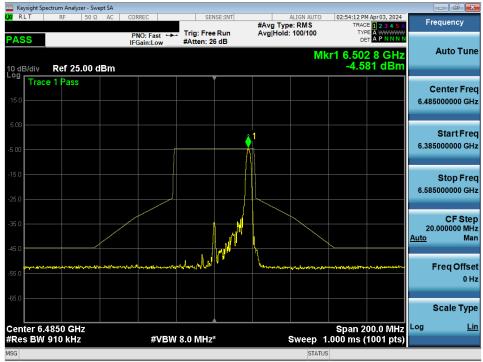
Plot 7-237. In-Band Emission Plot MIMO ANT1 (320MHz BW 802. 11be (26 Tones) (UNII Band 5) - Ch. 31)



Plot 7-238. In-Band Emission Plot MIMO ANT1 (20MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 105)

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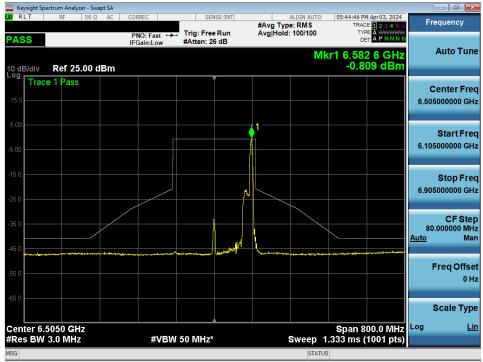
Plot 7-239. In-Band Emission Plot MIMO ANT1 (40MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 107)



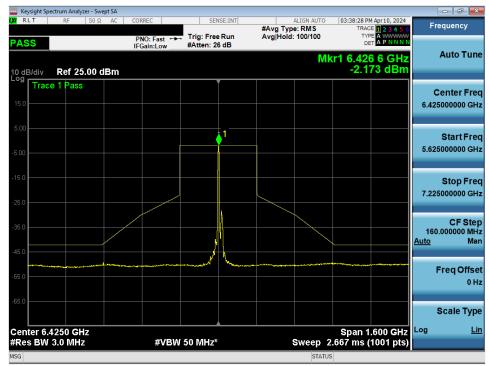
Plot 7-240. In-Band Emission Plot MIMO ANT1 (80MHz BW 802. 11be (26 Tones) (UNII Band 6) – Ch. 103)

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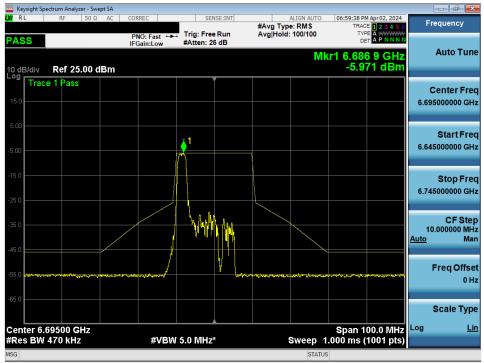
Plot 7-241. In-Band Emission Plot MIMO ANT1 (160MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 111)



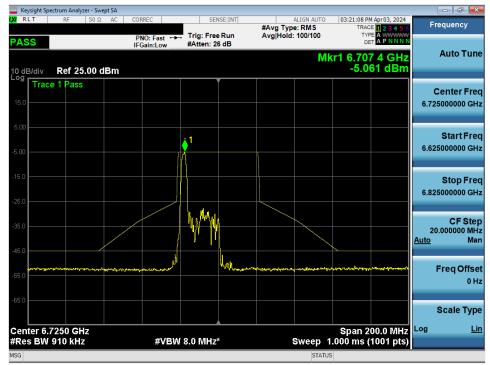
Plot 7-242. In-Band Emission Plot MIMO ANT1 (320MHz BW 802. 11be (26 Tones) (UNII Band 6) - Ch. 95)

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Plot 7-243. In-Band Emission Plot MIMO ANT1 (20MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 149)



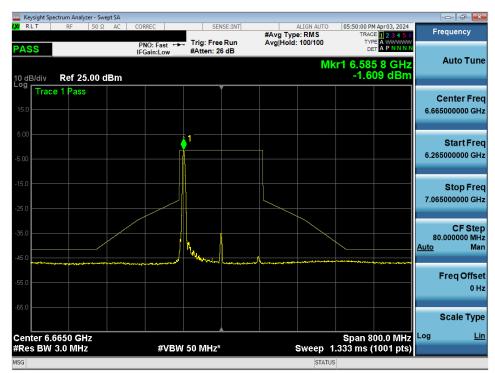
Plot 7-244. In-Band Emission Plot MIMO ANT1 (40MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 155)

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	ectrum Analyzer	- Swept SA									- 6 ×
X/RLT	RF 5	50 Ω AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		Apr 03, 2024	Fre	quency
PASS			PNO: Fast ← IFGain:Low	Trig: Free #Atten: 2		Avg Hold	: 100/100	TYF DE			
10 dB/div	Ref 25.0	0 dBm					Mk	r1 6.660 -4.7	6 GHz 47 dBm		Auto Tune
Trac	e 1 Pass			)						Ce	enter Freq
15.0										6.705	000000 GHz
5.00											Start Fred
-5.00				<u>}</u> '							000000 GHz
				JA							
-15.0											Stop Freq
-25.0											
-35.0				<u>  1</u>						40.0	CF Step
-45.0										<u>Auto</u>	Man
and the second	hat a fair and the second second		monorman	i Tiphn.	Anno and		an a	ant and a subserve	and failed of the Astron	F	req Offset
-55.0											0 Hz
-65.0											cale Type
											Lin
Center 6. #Res BW	7050 GHz 1.8 MHz		#VB	W 8.0 MHz	¢.		Sweep_1	Span 4 .000 ms (	00.0 MHz 1001 pts)	Log	
MSG							STATUS	`			

Plot 7-245. In-Band Emission Plot MIMO ANT1 (80MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 151)



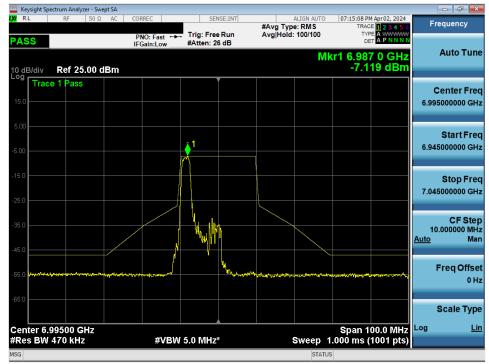
Plot 7-246. In-Band Emission Plot MIMO ANT1 (160MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 143)

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	ctrum Analyzer - S	iwept SA								- d	×
L <mark>XI</mark> RLT	RF 50	Ω AC	CORREC	SE	NSE:INT	#Avg Ty	ALIGN AUTO	03:43:33 PM TRACE	Apr10, 2024	Frequency	y
PASS			PNO: Fast ↔ IFGain:Low	Trig: Fre #Atten: 2		Avg Hold	i: 100/100	TYPE DE1	A WWWWW A P N N N N	Auto T	una
10 dB/div	Ref 25.00	dBm					M	(r1 6.586 -2.31	6 GHz 0 dBm	Autor	une
Log Trace	e 1 Pass				Ť					Center I	Frea
15.0										6.585000000	
5.00											
5.00					<b>1</b>					Start	
-5.00										5.785000000	GHz
-15.0											
-15.0										Stop F 7.38500000	
-25.0										1.000000000	OTTE
-35.0										CFS	
00.0										160.000000 Auto	MHz Man
-45.0											
-55.0			······		· · · · · · · · · · · · · · · · · · ·					Freq Of	
											0 Hz
-65.0										Scale T	Type
Center 6.5 #Res BW			#VB	W 50 MHz'			Sweep 2	.1 Span 2.667 ms (1	600 GHz 001 pts)	Log	Lin
MSG							STATUS				

Plot 7-247. In-Band Emission Plot MIMO ANT1 (320MHz BW 802. 11be (26 Tones) (UNII Band 7) - Ch. 127)



Plot 7-248. In-Band Emission Plot MIMO ANT1 (20MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 209)

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Plot 7-249. In-Band Emission Plot MIMO ANT1 (40MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 211)



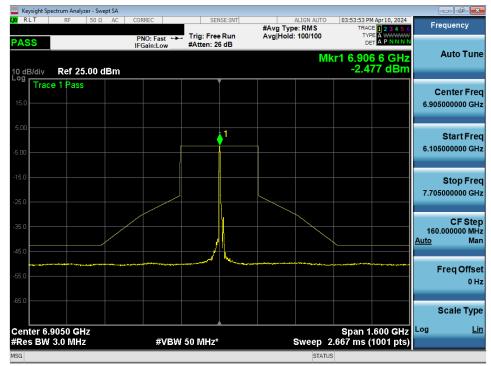
Plot 7-250. In-Band Emission Plot MIMO ANT1 (80MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 199)

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XX RLT RF 50Ω AC	CORREC SE	ENSE:INT #Avg Ty	ALIGN AUTO 0	5:56:23 PM Apr 03, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast +++ Trig: Fre IFGain:Low #Atten: 2		ă: 100/100 Mkr1	6.906 6 GHz -1.008 dBm	Auto Tune
10 dB/div Ref 25.00 dBm		<b>V</b>		-1.008 dBm	
15.0					Center Freq 6.985000000 GHz
5.00					
-5.00					Start Freq 6.585000000 GHz
-15.0					Stop Freq 7.385000000 GHz
-25.0					CF Step
-45.0	hun h				80.000000 MHz <u>Auto</u> Man
-55.0					Freq Offset 0 Hz
-65.0					Scale Type
Center 6.9850 GHz #Res BW 3.0 MHz	#VBW 50 MHz	*	Sweep 1.33	Span 800.0 MHz 3 ms (1001 pts)	Log <u>Lin</u>
MSG			STATUS		

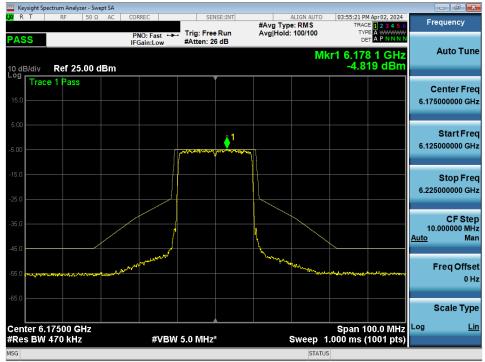
Plot 7-251. In-Band Emission Plot MIMO ANT1 (160MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 207)



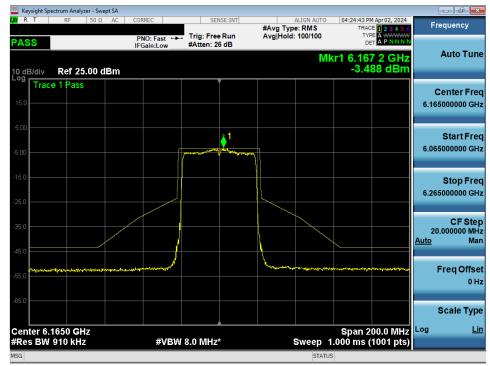
Plot 7-252. In-Band Emission Plot MIMO ANT1 (320MHz BW 802. 11be (26 Tones) (UNII Band 8) - Ch. 191)

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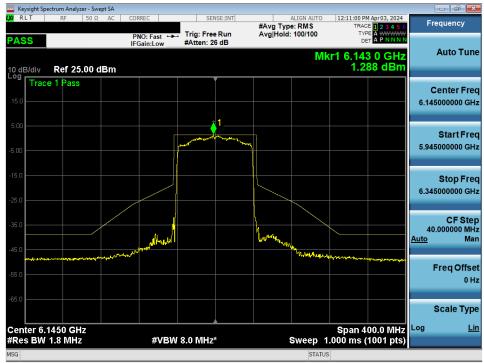
Plot 7-253. In-Band Emission Plot MIMO ANT1 (20MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 45)



Plot 7-254. In-Band Emission Plot MIMO ANT1 (40MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 43)

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Plot 7-255. In-Band Emission Plot MIMO ANT1 (80MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 39)



Plot 7-256. In-Band Emission Plot MIMO ANT1 (160MHz BW 802. 11be (Full Tone) (UNII Band 5) - Ch. 47)

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