

Plot 7-59. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-60. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 50 of 101
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Spectrur Occupie		zer 1	• +											\$	Trace	· · · · · · · · · · · · · · · · · · ·
RL	IGHT ↔	Input: RF Coupling: [Align: Auto		Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S)		36 dB ath: Sta	Indarc	d Gate:	Free Run Off ain: Low	Center F Avg Holo Radio St	J: 100/1		GHz			
<mark>⊥xı</mark> 1 Graph		Ţ		NFE: Off										Trace Type Clear /		Trace Control
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20.0						. 1	<u>،</u>							Ť.		Detector
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-30.0														Restart	Max Hold	Advanced
-50.0																
Center	5.5700 (GHz			Video	1 3W 50	.000	MHz				Spa	an 400 MHz			
Res BW	3.0000	MHz									Sweep		(1001 pts)			
2 Metrics	5	۷														
								Меа	sure Trace	Tra	ice 1					
	Occup	ied Bandw		41.1-				Tete	Denner			00 4 45				
	_		34.281 N						Power			20.4 dE				
		mit Freq Ei Bandwidth	rror	-3.1787 N 37.16 N				% of x dB	OBW Pow	er		99.00 -26.00 (
		anawiatin		57.101	1112			A GD				-20.00				
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Plot 7-61. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 114)



Plot 7-62. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 1) - Ch. 40)

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Spectrum Anal Occupied BW	yzer 1	ł					Trace	- 7 崇
RL ++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 36 dB µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 5 Avg Hold: 100/ Radio Std: Nor			
1 Graph	v						Trace Type Clear / Write	Trace Control
Scale/Div 10.0) dB		Ref Value 20.00 dl	Bm			Trace Average	Math
10.0		for the	Na ⁿ ugakenter ^{na} ndesk	weber portions to a presson			Max Hold	Detector
-20.0 -30.0	munale	merend A			Mahamerarational	and a subscription of the second	Min Hold	Trace Function
-40.0 -50.0 -60.0							Restart Max Hold	Advanced
-70.0								
Center 5.1900 Res BW 910.0		\	(ideo BW 8.0000 N	MHz	Swee	Span 100 MHz p 1.00 ms (1001 pts)		
2 Metrics	v							
				Measure Trace				
Occu	pied Bandwidth 38.005	5 MHz		Total Power		19.6 dBm		
	smit Freq Error Bandwidth	7.135 kH 41.91 MH		% of OBW Pow x dB	er	99.00 % -26.00 dB		
1	C □ ?	Apr 14, 2024 10:03:55 AM						

Plot 7-63. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 1) - Ch. 38)



Plot 7-64. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 1) - Ch. 42)

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Spectrui Occupie	m Analyzer 1 💡	+								Trace	7 崇
KEYS RL	IGHT Input: RF ← Coupling: DC Align: Auto	Input Z: 50 Corr CCor Freq Ref: NFE: Off	rRCal µ∖	tten: 36 dB W Path: Stai	ndard Gat	: Free Run e: Off Gain: Low	Center Freq Avg Hold: 10 Radio Std: N) GHz		
1 Graph										Trace Type Clear / Write	Trace Control
Scale/D	iv 10.0 d B		Re	f Value 20.	00 dBm		•			Clear / Write	Math
10.0 0.00			~	سمحار المعالية	وحداسيه لمدوجه يعطوه	mountment	4			Trace Average	
-10.0							<u></u>			 Max Hold 	Detector
-20.0	walayong ang ang ang ang ang ang ang ang ang a	and an and a state of the state					Ma more sound	and n tanna and a second	yn Meynaatheenadd	Min Hold	Trace Function
-50.0										Restart Max Hold	Advanced
-70.0											
	5.2500 GHz / 3.0000 MHz		Vid	eo BW 50.	000 MHz		Sw	Sp eep 1.00 ms	an 400 MHz s (1001 pts)		
2 Metrics	s 🔻										
					Me	asure Trace	Trace	1			
	Occupied Bandwidth 158	n 8.29 MHz			To	al Power		20.2 dE	3m		
	Transmit Freq Error x dB Bandwidth		86.93 kHz 75.8 MHz		% x c	of OBW Pow B	er	99.00 -26.00			
	500	? Apr 14, 2 10:15:07	2024 7 AM 💬								

Plot 7-65. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be – 2x996 Tones (UNII Band 1/2A) – Ch. 50)



Plot 7-66. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 2A) - Ch. 56)

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Spectrum Analyzer 1 Occupied BW	+					Trace	7 景
KEYSIGHT Input: RF RL Coupling: DC Align: Auto		V Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 5.270000000 GH Avg Hold: 100/100 Radio Std: None	z		
LXI 1 Graph V	INFE. OII					Trace Type Clear / Write	Trace Control
Scale/Div 10.0 dB	Ref	Value 20.00 dE	3m				Math
10.0	Norman	al-manage of all-	~hamperton ~hours			Trace Average	
-10.0						Max Hold	Detector
-20.0	المري المري			N			Trace
-30.0 -40.0	mangle			Maria Maria Maria and Sanaka		Min Hold	Function
-50.0							Advanced
-60.0						Restart Max Hold	
Center 5.27000 GHz Res BW 910.00 kHz	Vide	eo BW 8.0000 N	lHz	Span 1 Sweep 1.00 ms (10	00 MHz 001 pts)		
2 Metrics				(
			Measure Trace	Trace 1			
Occupied Bandwidth 38.28	35 MHz		Total Power	19.2 dBm			
Transmit Freq Error	-15.386 kHz		% of OBW Powe				
x dB Bandwidth	42.42 MHz		x dB	-26.00 dB			
1 77	Apr 14, 2024				X		

Plot 7-67. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 2A) - Ch. 54)



Plot 7-68. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LNP940XMA		MEASUREMENT REPORT					
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Spectrum Analyzer 1 Occupied BW	+				\$	Trace	7 景
KEYSIGHT Input: RF RL ↔ Align: Auto		Atten: 36 dB µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 5 600000000 GH; Avg Hold: 100/100 Radio Std: None			
LXI 1 Graph V	NFE. UI				Tr.	ace Type Clear / Write	Trace Control
Scale/Div 10.0 dB	F	tef Value 20.00 dl	Bm			Trace Average	Math
10.0 0.00 -10.0	franktoren	rolower of grand	denenal argument to a general to	1 1		Max Hold	Detector
-20.0 -30.0	When yours and the second			Mulananananan	مەمەبە مىلىسە	Min Hold	Trace Function
-50.0					=r	Restart Max Hold	Advanced
-70.0		BW/ - 0000 B	AU 1-				
Center 5.60000 GHz Res BW 470.00 kHz	V	ideo BW 5.0000 M	VIHZ	Sweep 1.00 ms (10	50 MHz 01 pts)		
2 Metrics v							
			Measure Trace	Trace 1			
Occupied Bandwidth 19.1	54 MHz		Total Power	19.1 dBm			
Transmit Freq Error x dB Bandwidth	79.238 kHz 21.40 MHz		% of OBW Powe x dB	er 99.00 % -26.00 dB			Local
	2 1.40 MI12		Xub	-20.00 dB			
1 961	? Apr 14, 2024 10:47:12 AM				X		

Plot 7-69. 26dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11be - 242 Tones (UNII Band 2C) - Ch. 120)



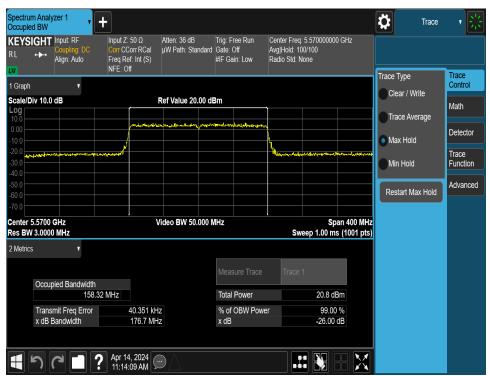
Plot 7-70. 26dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11be - 484 Tones (UNII Band 2C) - Ch. 118)

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Spectru Occupie		zer 1	•	+									Ö	Trace	· · · · · ·
RL	IGHT ↔	Input: RF Coupling: Align: Au		Input Z: Corr CCo Freq Ref NFE: Off	orr RCal : Int (S)	Atten: 36 dΒ μW Path: Star	ndard	Gate: (ree Run Off in: Low	Center Fre Avg Hold: 1 Radio Std:) GHz			
<mark>⊥xı</mark> 1 Graph		,	,	NFL. OI									Trace Type Clear /		Trace Control
Scale/D	iv 10.0	dB			R	ef Value 30.	00 dE	3m						VVIILE	Math
20.0													Trace A	Average	
10.0					- martine	_{↓৵} ঀ৸৶ৠ৾৸৵৽৽৽৸৵৵৽	ومحامده	muhim	aphier whether					ald	Detector
0.00				/									Max He	JIQ	Trace
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-30.0															Advanced
-50.0													Restart	Max Hold	Auvanceu
-60.0															
Center					Vi	deo BW 8.0	000 N	Hz				an 200 MHz			
Res BW										SI	veep 1.00 m	s (1001 pts)			
2 Metrics	5														
	Occup	ied Band							_						
				5 MHz					Power		20.2 d				
		mit Freq I Bandwidth			4.688 kHz 35.76 MHz			% of x dB	OBW Powe	r	99.00 -26.00				
		anawiaa			50.1 0 IVII 12			xuD			-20.00	UD .			
	ち (2		Apr 14 11:06:											

Plot 7-71. 26dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11be - 996 Tones (UNII Band 2C) - Ch. 122)



Plot 7-72. 26dB Bandwidth Plot MIMO ANT2 (160MHz BW 802.11be - 2x996 Tones (UNII Band 2C) - Ch. 114)

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7.4 UNII Output Power Measurement

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013, and at the appropriate frequencies.

The output power limits are specified in the tables below.

UNII		Maximum Conducted Po	wer Limit		Maximum e.i.r.p
Band	Frequency Range	FCC	ISED	FCC	ISED
UNII 1	5.15 – 5.25GHz	23.98dBm (250mW)	N/A	N/A	The lesser of 23.01dBm (200mW) or 10dBm + 10log ₁₀ B
UNII 2A	5.25 – 5.35GHz	The lease of 22 OddDrey (2			
UNII 2C	5.47 – 5.725GHz	The lesser of 23.98dBm (2 11dBm + 10log₁₀l		N/A	The lesser of 30dBm (1W) or 17dBm + 10log ₁₀ B
UNII 3	5.725 – 5.850GHz	30dBm (1W)		N/A	N/A
UNII 4	5.850 – 5.895GHz	N/A		30dBm (1W)	30dBm (1W)

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

None.

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MIMO Conducted Output Power Measurements

							Average	Conducted Pow	er (dBm)				Conducted Power	Conducted Power				
Band	Freq [MHz]	Channel	Tones					RU Index					Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
					0			4			8		(dBm)	[dp]	[dBi]	[dBm]	(dBm)	[dB]
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO		[ab]				
	5180	36	26T	5.06	5.60	8.35	5.01	5.91	8.49	5.26	5.86	8.58	23.98	-15.40	2.93	11.51	30.0	-18.49
1	5200	40	26T	5.01	5.78	8.42	5.01	5.99	8.54	5.36	5.86	8.63	23.98	-15.35	2.93	11.56	30.0	-18.44
	5240	48	26T	5.20	5.93	8.59	5.09	5.99	8.57	5.38	5.65	8.53	23.98	-15.39	2.93	11.52	30.0	-18.48
	5260	52	26T	5.22	5.59	8.42	5.06	5.84	8.48	5.24	5.57	8.42	23.98	-15.50	2.86	11.34	30.0	-18.66
2A	5280	56	26T	5.54	5.99	8.78	4.94	5.91	8.46	5.81	5.99	8.91	23.98	-15.07	2.86	11.77	30.0	-18.23
	5320	64	26T	5.30	5.96	8.65	4.62	5.72	8.22	5.45	5.83	8.65	23.98	-15.33	2.86	11.52	30.0	-18.48
	5500	100	26T	5.69	5.42	8.57	5.63	5.94	8.80	5.99	5.49	8.76	23.98	-15.18	3.07	11.87	30.0	-18.13
2C	5600	120	26T	5.15	5.42	8.30	5.15	5.99	8.60	4.90	5.11	8.02	23.98	-15.38	3.07	11.67	30.0	-18.33
	5720	144	26T	5.54	5.92	8.74	5.07	5.88	8.50	5.51	5.38	8.46	23.98	-15.24	3.07	11.82	30.0	-18.18
	5745	149	26T	5.64	5.77	8.72	5.12	5.89	8.53	5.48	5.46	8.48	30	-21.28	3.16	11.87	36.0	-24.13
3	5785	157	26T	5.99	5.48	8.75	5.61	5.50	8.57	5.94	5.14	8.57	30	-21.25	3.16	11.91	36.0	-24.09
	5825	165	26T	4.90	5.44	8.19	4.90	5.98	8.48	5.89	5.99	8.95	30	-21.05	3.16	12.11	36.0	-23.89
	5845	169	26T	5.75	5.17	8.48	5.91	5.65	8.79	5.99	5.80	8.91			3.38	12.29	30.0	-17.71
4	5865	173	26T	5.59	4.83	8.24	5.68	5.34	8.52	5.92	5.67	8.81			3.38	12.19	30.0	-17.81
	5885	177	26T	5.66	5.78	8.73	4.56	5.72	8.19	5.48	5.73	8.62	-		3.38	12.11	30.0	-17.89
				able 7	0 8418	10 00		1A/ /I IN	111) 84-			-l			(00 T	\		

Table 7-8. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

								Conducted Pow	(10.)									
							Average		er (abm)				Conducted Power	Conducted Power				
Band	Frea (MHz)	Channel	Tones					RU Index					Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Daliu	ried (winz)	Channel	TOHES		37			39			40		[dBm]	(Jro)	(dBi)	(dBm)	(dBm)	(dB)
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	lapui	[ab]				
	5180	36	52T	8.32	9.06	11.72	8.48	9.18	11.85	8.74	9.22	12.00	23.98	-11.98	2.93	14.93	30.0	-15.07
1	5200	40	52T	8.35	9.22	11.82	8.48	9.35	11.95	8.82	9.33	12.09	23.98	-11.89	2.93	15.02	30.0	-14.98
	5240	48	52T	8.62	9.09	11.87	8.55	9.07	11.83	8.76	9.05	11.92	23.98	-12.06	2.93	14.85	30.0	-15.15
	5260	52	52T	8.52	8.91	11.73	8.39	9.02	11.73	8.71	8.90	11.82	23.98	-12.16	2.86	14.68	30.0	-15.32
2A	5280	56	52T	8.70	9.30	12.02	8.91	9.45	12.20	8.90	9.45	12.19	23.98	-11.78	2.86	15.06	30.0	-14.94
	5320	64	52T	8.72	9.28	12.02	8.52	9.23	11.90	8.84	9.22	12.04	23.98	-11.94	2.86	14.91	30.0	-15.09
	5500	100	52T	9.20	9.05	12.14	9.06	8.99	12.04	9.14	8.74	11.95	23.98	-11.84	3.07	15.21	30.0	-14.79
2C	5600	120	52T	8.94	9.33	12.15	8.91	9.32	12.13	8.88	8.94	11.92	23.98	-11.83	3.07	15.22	30.0	-14.78
	5720	144	52T	8.69	9.49	12.12	8.12	9.19	11.70	8.59	9.08	11.85	23.98	-11.86	3.07	15.19	30.0	-14.81
	5745	149	52T	8.76	9.49	12.15	8.15	9.10	11.66	8.64	9.15	11.91	30	-17.85	3.16	15.31	36.0	-20.69
3	5785	157	52T	9.09	9.12	12.12	8.81	9.24	12.04	9.41	9.32	12.38	30	-17.62	3.16	15.53	36.0	-20.47
	5825	165	52T	8.90	9.49	12.22	8.56	9.24	11.92	8.69	9.03	11.87	30	-17.78	3.16	15.37	36.0	-20.63
	5845	169	52T	9.12	9.25	12.20	8.96	9.26	12.12	9.44	9.28	12.37			3.38	15.75	30.0	-14.25
4	5865	173	52T	9.40	9.13	12.28	9.15	9.22	12.20	9.49	9.26	12.39			3.38	15.77	30.0	-14.23
	5885	177	52T	8.74	9.15	11.96	8.41	9.40	11.94	8.83	9.49	12.18	-		3.38	15.57	30.0	-14.43

Table 7-9. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

							ted Power (dBm)			Conducted Power	Conducted Power				
Band	Freg [MHz]	Channel	Tones			RU I	ndex			Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Dana		onumer	ronco		53			54		[dBm]	[dB]	[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO						
	5180	36	106T	11.03	11.21	14.13	11.36	11.36	14.37	23.98	-9.61	2.93	17.30	30.0	-12.70
1	5200	40	106T	11.03	11.24	14.15	11.36	11.44	14.41	23.98	-9.57	2.93	17.34	30.0	-12.66
	5240	48	106T	11.19	11.28	14.25	11.49	11.43	14.47	23.98	-9.51	2.93	17.40	30.0	-12.60
	5260	52	106T	11.24	11.31	14.29	11.52	11.40	14.47	23.98	-9.51	2.86	17.33	30.0	-12.67
2A	5280	56	106T	11.34	11.41	14.39	11.14	10.96	14.06	23.98	-9.59	2.86	17.25	30.0	-12.75
	5320	64	106T	11.48	11.78	14.64	11.33	11.34	14.35	23.98	-9.34	2.86	17.50	30.0	-12.50
	5500	100	106T	11.88	11.33	14.62	11.98	11.09	14.57	23.98	-9.36	3.07	17.70	30.0	-12.30
2C	5600	120	106T	11.93	11.94	14.95	11.89	11.61	14.76	23.98	-9.03	3.07	18.02	30.0	-11.98
	5720	144	106T	11.68	11.78	14.74	11.56	11.51	14.55	23.98	-9.24	3.07	17.81	30.0	-12.19
	5745	149	106T	11.58	11.99	14.80	11.98	11.98	14.99	30	-15.01	3.16	18.15	36.0	-17.85
3	5785	157	106T	11.53	11.26	14.41	11.97	11.45	14.73	30	-15.27	3.16	17.88	36.0	-18.12
	5825	165	106T	11.52	11.74	14.64	11.64	11.79	14.73	30	-15.27	3.16	17.88	36.0	-18.12
	5845	169	106T	11.59	11.68	14.65	11.77	11.73	14.76			3.38	18.14	30.0	-11.86
4	5865	173	106T	11.41	11.65	14.54	11.66	11.77	14.73			3.38	18.11	30.0	-11.89
	5885	177	106T	11.56	11.99	14.79	11.70	11.77	14.75			3.38	18.17	30.0	-11.83
-	-		Tabla	7 40 M	1110 20		A/ /I INIII	Maxin		nductod)	C Tonoo		

Table 7-10. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

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				Average	Conducted Pow	er (dBm)	Conducted Power	Conducted Power				
Band	Freg [MHz]	Channel	Tones		RU Index		Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin [dB] -12.91 -12.91 -12.83 -12.85 -12.78 -12.43 -12.43 -12.19 -12.37 -18.26 -18.12 -18.09 -11.86 -11.86
Dallu	rieq[winz]	Channel	Tones		61		[dBm]		[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	laewi	[dB]				
	5180	36	242T	11.10	11.21	14.17	23.98	-9.81	2.93	17.09	30.0	-12.91
1	5200	40	242T	11.09	11.22	14.17	23.98	-9.81	2.93	17.09	30.0	-12.91
	5240	48	242T	11.24	11.26	14.26	23.98	-9.72	2.93	17.19	30.0	-12.81
	5260	52	242T	11.28	11.27	14.29	23.98	-9.69	2.86	17.15	30.0	-12.85
2A	5280	56	242T	11.34	11.35	14.36	23.98	-9.62	2.86	17.22	30.0	-12.78
	5320	64	242T	11.48	11.72	14.61	23.98	-9.37	2.86	17.47	30.0	-12.53
	5500	100	242T	11.81	11.13	14.49	23.98	-9.49	3.07	17.57	30.0	-12.43
2C	5600	120	242T	11.79	11.66	14.74	23.98	-9.24	3.07	17.81	30.0	-12.19
	5720	144	242T	11.56	11.53	14.56	23.98	-9.42	3.07	17.63	30.0	-12.37
	5745	149	242T	11.38	11.75	14.58	30	-15.42	3.16	17.74	36.0	-18.26
3	5785	157	242T	11.91	11.50	14.72	30	-15.28	3.16	17.88	36.0	-18.12
	5825	165	242T	11.64	11.84	14.75	30	-15.25	3.16	17.91	36.0	-18.09
	5845	169	242T	11.73	11.77	14.76	-	-	3.38	18.14	30.0	-11.86
4	5865	173	242T	11.70	11.81	14.77	-	-	3.38	18.15	30.0	-11.85
	5885	177	242T	11.32	11.74	14.55	-	-	3.38	17.93	30.0	-12.07

Table 7-11. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

				Average	Conducted Pow	er (dBm)	Conducted Power	Conducted Power				
Band	Freg [MHz]	Channel	Tones		RU Index		Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Danu	ried [ivii iz]	Channel	Tones		65		[dBm]	[dB]	[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	[ubiii]	[ub]				
1	5190	38	484T	11.32	11.42	14.38	23.98	-9.60	2.93	17.31	30.0	-12.69
	5230	46	484T	11.23	11.50	14.38	23.98	-9.60	2.93	17.31	30.0	-12.69
2A	5270	54	484T	11.61	11.58	14.61	23.98	-9.37	2.86	17.47	30.0	-12.53
ZA	5310	62	484T	11.63	11.98	14.82	23.98	-9.16	2.86	17.68	30.0	-12.32
	5510	102	484T	11.67	10.80	14.27	23.98	-9.71	3.07	17.34	30.0	-12.66
2C	5590	118	484T	11.78	11.48	14.64	23.98	-9.34	3.07	17.71	30.0	-12.29
	5710	142	484T	11.69	11.57	14.64	23.98	-9.34	3.07	17.71	30.0	-12.29
2	5755	151	484T	11.51	11.79	14.66	30	-15.34	3.16	17.82	36.0	-18.18
3	5795	159	484T	11.45	11.21	14.34	30	-15.66	3.16	17.50	36.0	-18.50
4	5835	167	484T	11.39	11.70	14.56	-	-	3.38	17.94	30.0	-12.06
4	5875	175	484T	11.12	11.47	14.31	-	-	3.38	17.69	30.0	-12.31

Table 7-12. MIMO 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

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				Average	Conducted Pow	er (dBm)	Conducted Power	Conducted Power				
Band	Frea (MHz)	MHz] Channel Tones			RU Index		Limit		Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Dallu	rieq [winz]	Channel	Tones		67				[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]				
1	5210	42	996T	11.45	11.58	14.53	23.98	-9.45	2.93	17.45	30.0	-12.55
2A	5290	58	996T	11.16	11.47	14.33	23.98	-9.65	2.86	17.19	30.0	-12.81
	5530	106	996T	11.84	11.39	14.63	23.98	-9.35	3.07	17.70	30.0	-12.30
2C	5610	122	996T	11.79	11.33	14.58	23.98	-9.40	3.07	17.65	30.0	-12.35
	5690	138	996T	11.54	11.01	14.29	23.98	-9.69	3.07	17.36	30.0	-12.64
3	5775	155	996T	11.89	11.62	14.77	30	-15.23	3.16	17.92	36.0	-18.08
4	5855	171	996T	11.46	11.61	14.55	-	-	3.38	17.93	30.0	-12.07

Table 7-13. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

				Average	Average Conducted Power (dBm) RU Index		Conducted Power	Conducted Power				
Band	Freg [MHz]	Channel	Tones				Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Dallu	rieq [winz]	Channel	Tones		68		[dBm]		[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	laewi	[dB]				
1/2A	5250	50	2x996T	11.28	11.25	14.28	23.98	-9.70	2.93	17.20	30.0	-12.80
2C	5570	114	2x996T	11.60	11.37	14.50	23.98	-9.48	3.07	17.57	30.0	-12.43
3/4	5815	163	2x996T	11.09	11.18	14.15	-	-	3.38	17.53	30.0	-12.47

Table 7-14. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (2x996 Tones)

							Average	Conducted Pow	er (dBm)				Conducted Power	Conducted Power	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Band	Freq [MHz]	Channel	Tones		70			MRU Index 71			72		Limit	Margin	[dBi]	[dBm]	(dBm)	e.i.r.p Margin [dB]
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	(dBm)	[GB]				
1	5200	40	52+26T	8.32	9.23	11.81	8.42	9.31	11.90	8.38	9.47	11.97	23.98	-12.01	2.93	14.90	30.0	-15.10
2A	5280	56	52+26T	8.10	9.10	11.64	8.11	9.14	11.67	8.06	9.46	11.83	23.98	-12.15	2.86	14.69	30.0	-15.31
2C	5600	120	52+26T	8.30	9.37	11.88	8.43	9.30	11.90	8.06	9.28	11.72	23.98	-12.08	3.07	14.97	30.0	-15.03
3	5785	157	52+26T	7.65	8.99	11.38	8.22	9.49	11.91	7.74	9.44	11.68	30	-18.09	3.16	15.07	36.0	-20.93
4	5865	173	52+26T	8.76	9.42	12.11	8.87	9.35	12.13	8.44	9.10	11.79	-	-	3.38	15.51	30.0	-14.49

Table 7-15. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (52 + 26 Tones)

								Average	e Conducted Pow	er (dBm)				Conducted Power	Conducted Power				
-	Band	Freg (MHz)	Channel	Tones					MRU Index					Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
5	Duna	uned funnet	onannei	Tomes		82			83			NA		[dBm]	[dB]	[dBi]	[dBm]	[dBm]	[dB]
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO		[CIB]				
£	1	5200	40	106+26T	10.53	11.54	14.07	10.61	11.80	14.26				23.98	-9.72	2.93	17.18	30.0	-12.82
Σ	2A	5280	56	106+26T	10.49	11.50	14.03	10.54	11.66	14.15				23.98	-9.83	2.86	17.01	30.0	-12.99
2	2C	5600	120	106+26T	10.48	11.50	14.03	10.55	11.59	14.11				23.98	-9.87	3.07	17.18	30.0	-12.82
	3	5785	157	106+26T	10.09	11.77	14.02	10.23	11.99	14.21				30	-15.79	3.16	17.36	36.0	-18.64
	4	5865	173	106±26T	11.48	11.88	14.69	11.13	11.75	14.46						3 38	18.08	30.0	-11.92

Table 7-16. MIMO 20MHz BW (UNII) Maximum Conducted Output Power (106 + 26 Tones)

							Average	Conducted Pow	er (dBm)				Conducted Power	Conducted Power				
Band	Freq [MHz]	Channel	Tones					MRU Index					Limit	Margin	Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Dunia		onumer	rones		90			92			93		(dBm)	(Jan)	(dBi)	(dBm)	(dBm)	[dB]
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	lapul	[ub]				
1	5210	42	484+242T	11.03	11.77	14.43	11.05	11.74	14.42	11.03	11.76	14.42	23.98	-9.55	2.93	17.35	30.0	-12.65
2A	5290	58	484+242T	11.05	11.65	14.37	11.22	11.76	14.51	11.15	11.80	14.50	23.98	-9.47	2.86	17.37	30.0	-12.63
	5530	106	484+242T	11.68	11.74	14.72	11.77	11.87	14.83	11.81	11.83	14.83	23.98	-9.15	3.07	17.90	30.0	-12.10
2C	5610	122	484+242T	11.50	11.83	14.68	11.55	11.82	14.70	11.52	11.85	14.70	23.98	-9.28	3.07	17.77	30.0	-12.23
	5690	138	484+242T	11.89	11.54	14.73	11.90	11.50	14.71	11.89	11.58	14.75	23.98	-9.23	3.07	17.82	30.0	-12.18
3	5775	155	484+242T	11.50	11.22	14.37	11.71	11.27	14.51	11.67	11.31	14.50	30	-15.49	3.16	17.66	36.0	-18.34
4	5855	171	484+242T	11.44	11.71	14.59	11.45	11.72	14.60	11.49	11.72	14.62			3.38	18.00	30.0	-12.00

Table 7-17. MIMO 80MHz BW (UNII) Maximum Conducted Output Power (484 + 242 Tones)

							Average	Conducted Pow MRU Index	er (dBm)				Conducted Power		Dir. Ant. Gain	Max e.i.r.p	e.i.r.p Limit	e.i.r.p Margin
Ban	Freq [MHz]	Channel	Tones		94			95			1095		Limit	Margin	[dBi]	[dBm]	[dBm]	[dB]
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO		[GB]				
1/24	5250	50	996+484T	11.04	11.82	14.46	11.02	11.87	14.48	11.03	11.93	14.51	23.98	-9.47	2.93	17.44	30.0	-12.56
2C	5570	114	996+484T	10.82	11.52	14.19	10.88	11.54	14.23	10.84	11.52	14.20	23.98	-9.75	3.07	17.30	30.0	-12.70
3/4	5815	163	996+484T	11.14	11.46	14.31	11.20	11.64	14.44	11.32	11.66	14.50	-	-	3.38	17.89	30.0	-12.11

Table 7-18. MIMO 160MHz BW (UNII) Maximum Conducted Output Power (996 + 484 Tones)

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Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during MIMO transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

Directional gain = $10 \log[(10^{G_{1/20}} + 10^{G_{2/20}} + ... + 10^{G_{N/20}})^2 / N_{ANT}] dBi$

Sample MIMO Calculation:

At 5180MHz in 802.11be (20MHz BW 242T) mode, the average conducted output power was measured to be 11.03 dBm for Antenna 1 and 11.21 dBm for Antenna 2.

Antenna 1 + Antenna 2 = MIMO

(11.10 dBm + 11.21 dBm) = (12.88 mW + 13.21 mW) = 26.09 mW = 14.17 dBm

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11be (20MHz BW 242T) mode, the average MIMO conducted power was calculated to be 14.17 dBm with directional gain of 2.93 dBi.

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

14.17 dBm + 2.93 dBi = 17.30 dBm

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7.5 Maximum Power Spectral Density

Test Overview and Limit

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

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

UNII	Fragueney Denge	Maximum Power	Spectral Density
Band	Frequency Range	FCC	ISED
UNII 1	5.15 – 5.25GHz	11dBm/MHz	10dBm/MHz e.i.r.p
UNII 2A	5.25 – 5.35GHz		
UNII 2C	5.47 – 5.725GHz	11dBm	/MHz
UNII 3	5.725 – 5.850GHz	30dBm/5	500kHz
UNII 4	5.850 – 5.895GHz	14dBm/Mł	Hz e.i.r.p

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 (Method SA-1) ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

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

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
	5180	be (20MHz)	36	3.30	3.71	6.52	11.00	-4.48
	5200	be (20MHz)	40	3.24	3.71	6.49	11.00	-4.51
Band 1	5240	be (20MHz)	48	3.10	3.56	6.35	11.00	-4.65
Bar	5190	be (40MHz)	38	3.19	4.22	6.75	11.00	-4.25
	5230	be (40MHz)	46	3.00	3.98	6.53	11.00	-4.47
	5210	be (80MHz)	42	2.95	3.43	6.21	11.00	-4.79
Band 1/2A	5250	be (160MHz)	50	3.24	3.71	6.49	11.00	-4.51
	5260	be (20MHz)	52	7.80	7.96	10.89	11.00	-0.11
A	5280	be (20MHz)	56	8.41	7.49	10.99	11.00	-0.01
Band 2A	5320	be (20MHz)	64	7.65	7.59	10.63	11.00	-0.37
3an	5270	be (40MHz)	54	7.56	8.03	10.81	11.00	-0.19
ш	5310	be (40MHz)	62	6.57	8.90	10.90	11.00	-0.10
	5290	be (80MHz)	58	6.24	9.07	10.89	11.00	-0.11
	5500	be (20MHz)	100	8.08	7.53	10.82	11.00	-0.18
	5600	be (20MHz)	120	8.05	7.80	10.93	11.00	-0.07
	5720	be (20MHz)	144	7.99	7.67	10.84	11.00	-0.16
U	5510	be (40MHz)	102	7.54	7.35	10.46	11.00	-0.54
d 2	5590	be (40MHz)	118	7.84	7.86	10.86	11.00	-0.14
Band 2C	5710	be (40MHz)	142	7.65	7.98	10.83	11.00	-0.17
	5530	be (80MHz)	106	8.17	7.73	10.96	11.00	-0.04
	5610	be (80MHz)	122	7.35	7.86	10.62	11.00	-0.38
	5690	be (80MHz)	138	7.84	7.89	10.87	11.00	-0.13
	5570	be (160MHz)	114	7.63	7.95	10.80	11.00	-0.20

Table 7-19. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
	5745	be (20MHz)	149	6.08	6.15	9.13	30.00	-20.87
-	5785	be (20MHz)	157	6.30	5.13	8.76	30.00	-21.24
2 pt	5825	be (20MHz)	165	6.19	6.01	9.11	30.00	-20.89
Band	5755	be (40MHz)	151	5.90	6.27	9.10	30.00	-20.90
	5795	be (40MHz)	159	6.66	6.39	9.53	30.00	-20.47
	5775	be (80MHz)	155	5.95	6.11	9.04	30.00	-20.96

Table 7-20. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

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	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	Antenna Gain [dBi]	MIMO Summed EIRP PSD [dBm]	PSD	Margin [dB]
Band 3/4	5845	be (20MHz)	169	7.66	7.40	3.38	13.92	14.00	-0.08
Band 4	5865	be (20MHz)	173	7.32	7.28	3.38	13.69	14.00	-0.31
Banu 4	5885	be (20MHz)	177	7.38	7.68	3.38	13.92	14.00	-0.08
Band 3/4	5835	be (40MHz)	167	7.08	8.01	3.38	13.96	14.00	-0.04
Band 4	5875	be (40MHz)	175	7.25	7.72	3.38	13.88	14.00	-0.12
Band 3/4	5855	be (80MHz)	171	6.88	8.07	3.38	13.91	14.00	-0.09
Band 5/4	5815	be (160MHz)	163	7.49	7.57	3.38	13.92	14.00	-0.08

Table 7-21. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
	5180	be (20MHz)	36	0.04	0.35	3.21	11.00	-7.79
	5200	be (20MHz)	40	0.56	0.87	3.73	11.00	-7.27
Band 1	5240	be (20MHz)	48	0.12	0.60	3.38	11.00	-7.62
Ban	5190	be (40MHz)	38	-2.54	-2.48	0.50	11.00	-10.50
	5230	be (40MHz)	46	-2.91	-2.35	0.39	11.00	-10.61
	5210	be (80MHz)	42	-5.59	-4.43	-1.97	11.00	-12.97
Band 1/2A	5250	be (160MHz)	50	-8.98	-9.27	-6.11	11.00	-17.11
	5260	be (20MHz)	52	-0.22	0.03	2.92	11.00	-8.08
⊲	5280	be (20MHz)	56	-0.63	-0.40	2.49	11.00	-8.51
Band 2A	5320	be (20MHz)	64	-0.36	-0.02	2.82	11.00	-8.18
Ban	5270	be (40MHz)	54	-3.10	-2.94	-0.01	11.00	-11.01
	5310	be (40MHz)	62	-2.68	-2.66	0.34	11.00	-10.66
	5290	be (80MHz)	58	-6.30	-5.02	-2.60	11.00	-13.60
	5500	be (20MHz)	100	0.81	-0.09	3.39	11.00	-7.61
	5600	be (20MHz)	120	0.47	0.14	3.32	11.00	-7.68
	5720	be (20MHz)	144	0.67	0.55	3.62	11.00	-7.38
U	5510	be (40MHz)	102	-2.74	-3.80	-0.23	11.00	-11.23
Band 2C	5590	be (40MHz)	118	-2.52	-2.74	0.38	11.00	-10.62
Ban	5710	be (40MHz)	142	-2.13	-2.38	0.76	11.00	-10.24
	5530	be (80MHz)	106	-4.63	-5.94	-2.22	11.00	-13.22
	5610	be (80MHz)	122	-4.95	-5.02	-1.98	11.00	-12.98
	5690	be (80MHz)	138	-4.71	-5.46	-2.06	11.00	-13.06
	5570	be (160MHz)	114	-8.31	-8.45	-5.37	11.00	-16.37

Table 7-22. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

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	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]		MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
	5745	be (20MHz)	149	-2.52	-2.27	0.62	30.00	-29.38
	5785	be (20MHz)	157	-1.84	-2.18	1.00	30.00	-29.00
5 pr	5825	be (20MHz)	165	-2.15	-1.92	0.98	30.00	-29.02
Band	5755	be (40MHz)	151	-5.18	-5.28	-2.22	30.00	-32.22
	5795	be (40MHz)	159	-5.13	-5.62	-2.36	30.00	-32.36
	5775	be (80MHz)	155	-7.08	-7.57	-4.31	30.00	-34.31

Table 7-23. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel		Antenna 2 PSD [dBm]	Antenna Gain [dBi]	MIMO Summed EIRP PSD [dBm]	Max EIRP PSD [dBm]	Margin [dB]
Band 3/4	5845	be (20MHz)	169	0.64	0.36	3.38	6.89	14.00	-7.11
Band 4	5865	be (20MHz)	173	1.04	1.06	3.38	7.44	14.00	-6.56
Dallu 4	5885	be (20MHz)	177	0.70	0.63	3.38	7.05	14.00	-6.95
Band 3/4	5835	be (40MHz)	167	-2.64	-2.70	3.38	3.72	14.00	-10.28
Band 4	5875	be (40MHz)	175	-2.42	-2.27	3.38	4.05	14.00	-9.95
Band 3/4	5855	be (80MHz)	171	-4.32	-4.66	3.38	1.91	14.00	-12.09
Band 3/4	5815	be (160MHz)	163	-8.10	-8.61	3.38	-1.96	14.00	-15.96

Table 7-24. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	802.11 MODE	Channel		Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
Band 1	5200	be (20MHz)	40	2.32	2.94	5.65	11.00	-5.35
Band 2A	5280	be (20MHz)	56	5.20	4.83	8.03	11.00	-2.97
Band 2C	5600	be (20MHz)	120	5.32	5.51	8.43	11.00	-2.57
Band 3	5785	be (20MHz)	157	2.96	3.20	6.09	30.00	-23.91

Table 7-25. Bands 1, 2A, 2C, 3 MIMO Conducted Power Spectral Density Measurements MIMO (52+26T)

	Frequency [MHz]	802.11 MODE	Channel		Antenna 2 PSD [dBm]		MIMO Summed EIRP PSD [dBm]	PSD	Margin [dB]
Band 4	5865	be (20MHz)	173	5.99	6.33	3.38	12.55	14.00	-1.45

Table 7-26. Band 4 MIMO Conducted Power Spectral Density Measurements MIMO (52+26T)

	Frequency [MHz]	802.11 MODE	Channel		Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
Band 1	5200	be (20MHz)	40	3.24	3.72	6.50	11.00	-4.50
Band 2A	5280	be (20MHz)	56	2.94	2.59	5.78	11.00	-5.22
Band 2C	5600	be (20MHz)	120	3.42	3.61	6.53	11.00	-4.47
Band 3	5785	be (20MHz)	157	1.36	0.70	4.05	30.00	-25.95

Table 7-27. Bands 1, 2A, 2C, 3 MIMO Conducted Power Spectral Density Measurements MIMO (26+106T)

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	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]			MIMO Summed EIRP PSD [dBm]	PSD	Margin [dB]
Band 4	5865	be (20MHz)	173	4.01	4.07	3.38	10.43	14.00	-3.57

Table 7-28. Bands 4 MIMO Conducted Power Spectral Density Measurements MIMO (26+106T)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]	Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]
Band 1	5210	be (80MHz)	42	-3.79	-3.74	-0.75	11.00	-11.75
Band 2A	5290	be (80MHz)	58	-3.49	-3.72	-0.59	11.00	-11.59
	5530	be (80MHz)	106	-2.45	-2.53	0.52	11.00	-10.48
Band 2C	5610	be (80MHz)	122	-2.43	-2.74	0.43	11.00	-10.57
	5690	be (80MHz)	138	-2.75	-3.21	0.04	11.00	-10.96
Band 3	5775	be (80MHz)	155	-5.30	-5.67	-2.47	30.00	-32.47

Table 7-29. Bands 1, 2A, 2C, 3 MIMO Conducted Power Spectral Density Measurements MIMO (242+484T)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]			MIMO Summed EIRP PSD [dBm]	Max EIRP PSD [dBm]	Margin [dB]
Band 3/4	5855	be (80MHz)	171	-2.25	-2.55	3.38	3.99	14.00	-10.01

Table 7-30. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (242+484T)

		Frequency [MHz]	802.11 MODE	Channel		Antenna 2 PSD [dBm]	MIMO Summed PSD [dBm]	Max Conducted PSD [dBm]	Margin [dB]		
Ba	and 1/2A	5250	be (160MHz)	50	-7.05	-7.02	-4.02	11.00	-15.02		
E	Band 2C	5570	be (160MHz)	114	-7.26	-7.33	-4.28	11.00	-15.28		
	Table 7.24 Dende 4.24.20 NIMO Conducted Dever Spectral Density Measurements NIMO (494, 900T)										

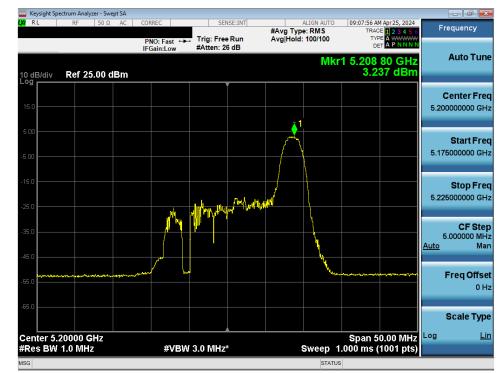
Table 7-31. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (484+996T)

	Frequency [MHz]	802.11 MODE	Channel	Antenna 1 PSD [dBm]			MIMO Summed EIRP PSD [dBm]	Max EIRP PSD [dBm]	Margin [dB]
Band 3/4	5855	be (80MHz)	171	-6.59	-6.64	3.38	-0.22	14.00	-14.22

Table 7-32. Bands 3/4 MIMO Conducted Power Spectral Density Measurements MIMO (484+996T)

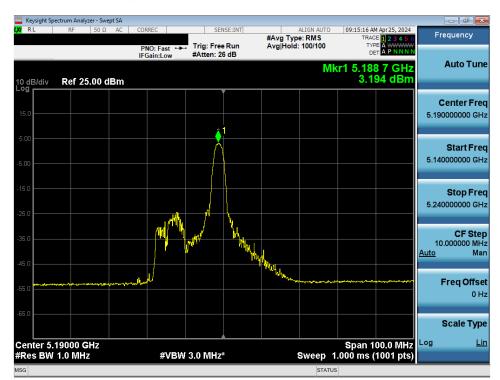
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7.5.1 MIMO Antenna-1 Power Spectral Density Measurements

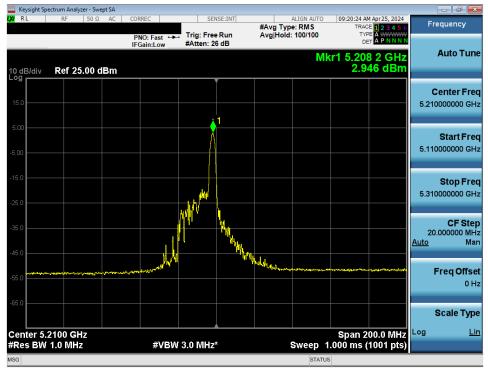




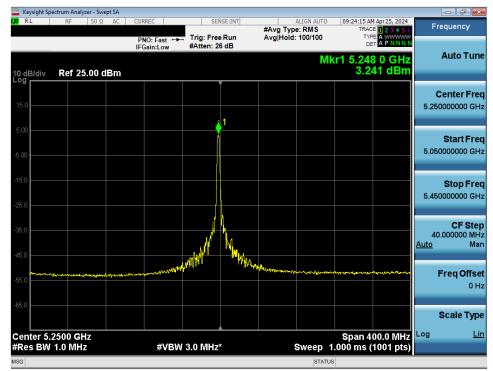
Plot 7-74. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 26 Tones (UNII Band 1) - Ch. 38)

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Plot 7-75. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 26 Tones (UNII Band 1) - Ch. 42)



Plot 7-76. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be - 26 Tones (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LNP940XMA	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-77. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 56)



Plot 7-78. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 54)

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Plot 7-79. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 26 Tones (UNII Band 2A) - Ch. 58)



Plot 7-80. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 2C) – Ch. 120)

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Plot 7-81. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-82. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 2C) – Ch. 122)

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Plot 7-83. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be - 26 Tones (UNII Band 2C) - Ch. 114)



Plot 7-84. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 26 Tones (UNII Band 3) - Ch. 157)

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Plot 7-85. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-86. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 26 Tones (UNII Band 3) - Ch. 155)

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Plot 7-87. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 26 Tones (UNII Band 4) – Ch. 173)



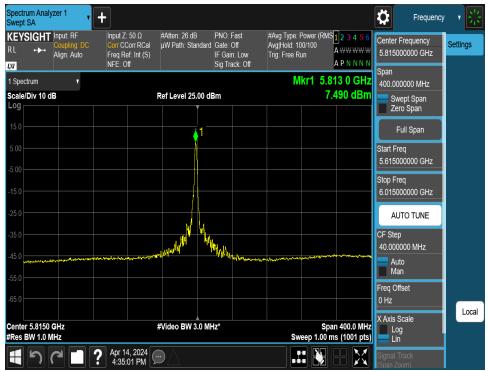
Plot 7-88. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 26 Tones (UNII Band 3/4) - Ch. 167)

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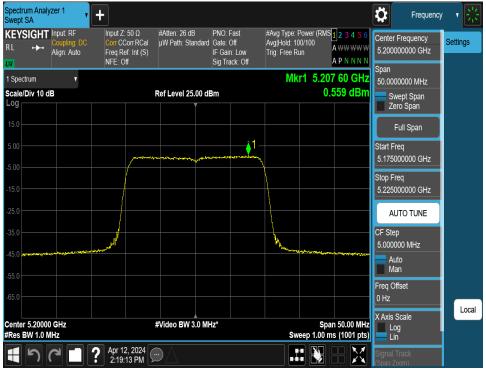
Plot 7-89. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 26 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-90. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be - 26 Tones (UNII Band 3/4) - Ch. 163)

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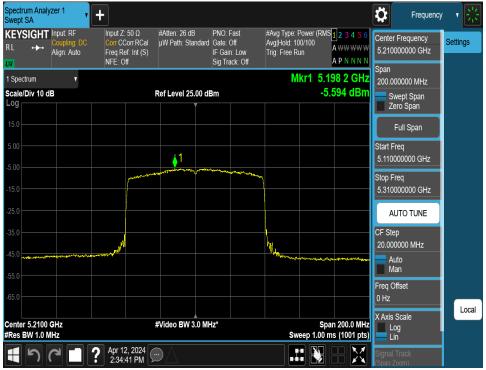
Plot 7-91. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 242 Tones (UNII Band 1) - Ch. 40)



Plot 7-92. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 484 Tones (UNII Band 1) - Ch. 38)

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Plot 7-93. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 1) – Ch. 42)



Plot 7-94. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be – 2x996 Tones (UNII Band 1/2A) – Ch. 50)

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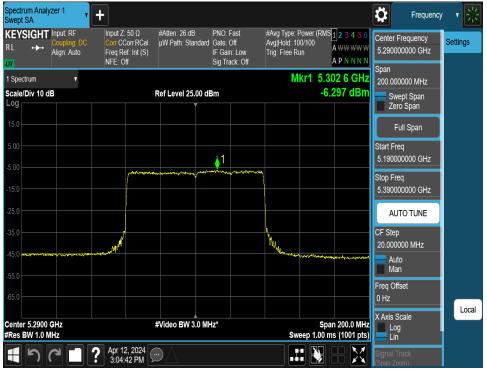
Plot 7-95. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 242 Tones (UNII Band 2A) - Ch. 56)



Plot 7-96. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 2A) – Ch. 54)

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Plot 7-97. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 996 Tones (UNII Band 2A) - Ch. 58)



Plot 7-98. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 242 Tones (UNII Band 2C) - Ch. 120)

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Plot 7-99. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 484 Tones (UNII Band 2C) - Ch. 118)



Plot 7-100. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 996 Tones (UNII Band 2C) - Ch. 122)

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Plot 7-101. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be – 2x996 Tones (UNII Band 2C) – Ch. 114)



Plot 7-102. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 242 Tones (UNII Band 3) - Ch. 157)

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Plot 7-103. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be – 484 Tones (UNII Band 3) – Ch. 151)



Plot 7-104. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 996 Tones (UNII Band 3) - Ch. 155)

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Plot 7-105. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 242 Tones (UNII Band 4) - Ch. 173)



Plot 7-106. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11be - 484 Tones (UNII Band 3/4) - Ch. 167)

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Plot 7-107. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 996 Tones (UNII Band 3/4) – Ch. 171)



Plot 7-108. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be – 996*2 Tones (UNII Band 3/4) – Ch. 163)

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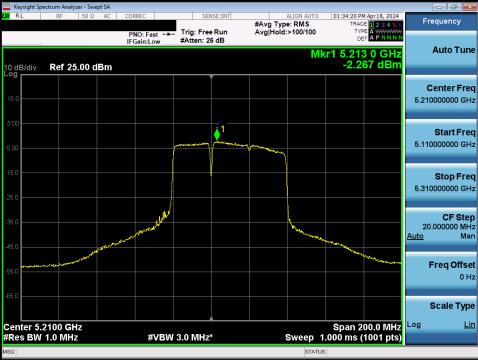
Plot 7-109. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 52+26 Tones (UNII Band 1) - Ch. 40)



Plot 7-110. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 106+26 Tones (UNII Band 1) - Ch. 40)

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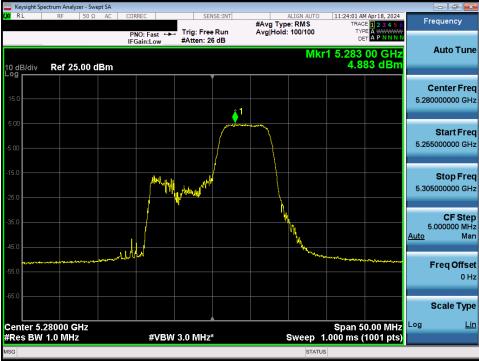
Plot 7-111. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 484+242Tones (UNII Band 1) - Ch. 42)



Plot 7-112. Power Spectral Density Plot MIMO ANT1(160MHz BW 802.11be – 996+484 Tones (UNII Band 1/2A) – Ch. 50)

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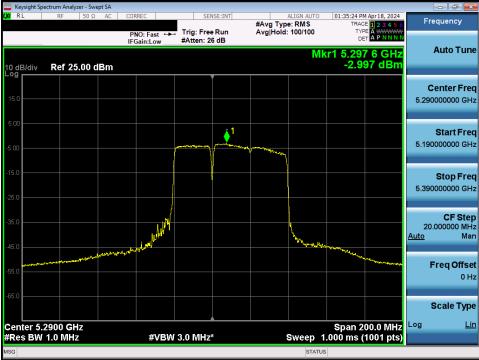
Plot 7-113. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 52+26 Tones (UNII Band 2A) - Ch. 56)



Plot 7-114. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 2A) – Ch. 56)

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Plot 7-115. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be - 484+242Tones (UNII Band 2A) - Ch. 58)



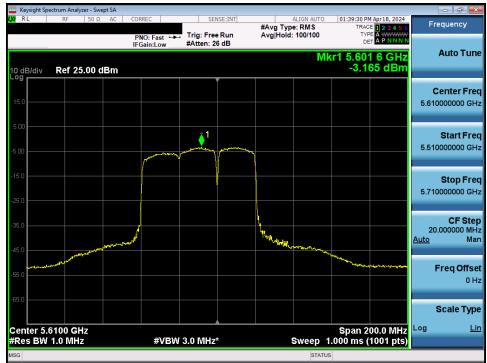
Plot 7-116. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 52+26 Tones (UNII Band 2C) - Ch. 120)

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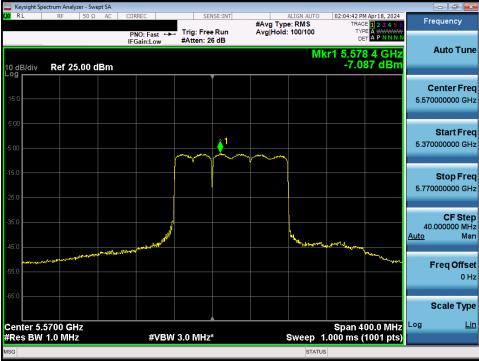
Plot 7-117. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 2C) – Ch. 120)



Plot 7-118. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 484+242Tones (UNII Band 2C) – Ch. 122)

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Plot 7-119. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be – 996+484 Tones (UNII Band 2C) – Ch. 114)



Plot 7-120. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 52+26 Tones (UNII Band 3) - Ch. 157)

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Plot 7-121. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 106+26 Tones (UNII Band 3) - Ch. 157)



Plot 7-122. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 484+242Tones (UNII Band 3) – Ch. 155)

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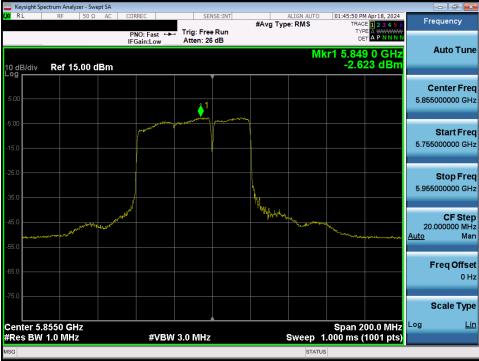
Plot 7-123. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be - 52+26 Tones (UNII Band 4) - Ch. 173)



Plot 7-124. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11be – 106+26 Tones (UNII Band 4) – Ch. 173)

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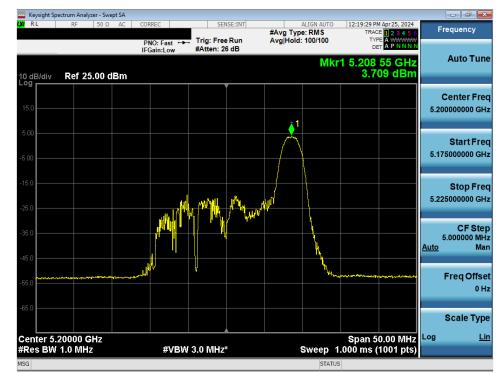
Plot 7-125. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11be – 484+242Tones (UNII Band 3/4) – Ch. 171)



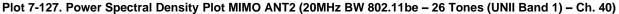
Plot 7-126. Power Spectral Density Plot MIMO ANT1 (160MHz BW 802.11be - 996+484 Tones (UNII Band 3/4) - Ch. 163)

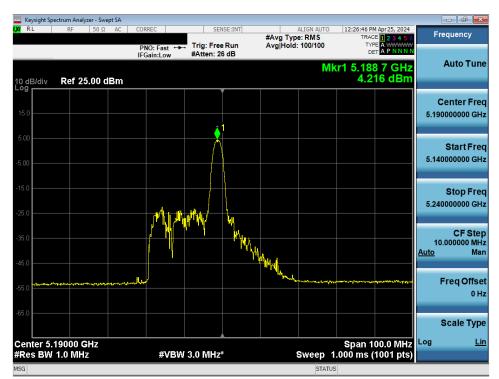
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7.5.2 MIMO Antenna-2 Power Spectral Density Measurements





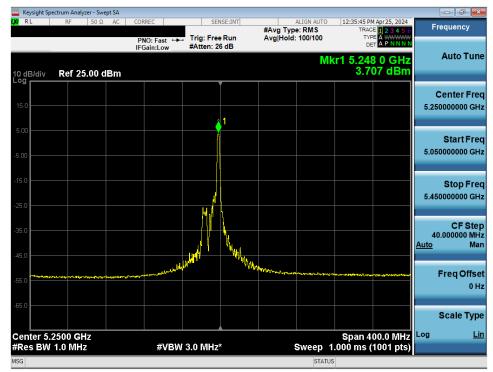
Plot 7-128. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11be - 26 Tones (UNII Band 1) - Ch. 38)

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Plot 7-129. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11be - 26 Tones (UNII Band 1) - Ch. 42)



Plot 7-130. Power Spectral Density Plot MIMO ANT2 (160MHz BW 802.11be – 26 Tones (UNII Band 1/2A) – Ch. 50)

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