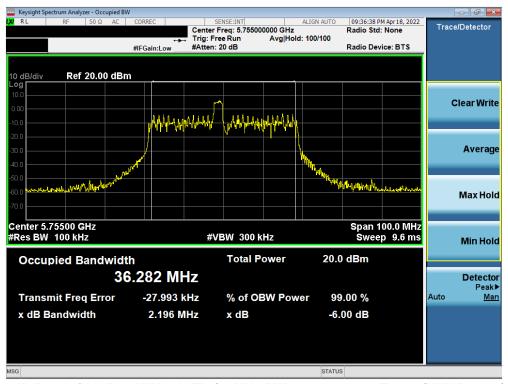




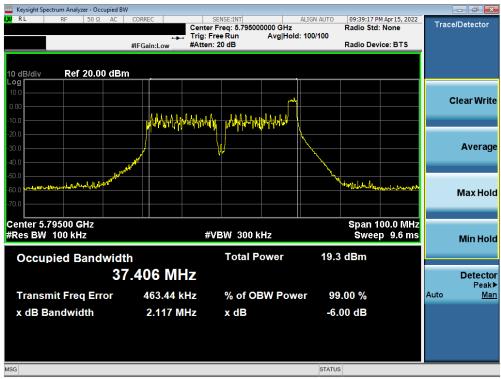
Plot 7-123. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



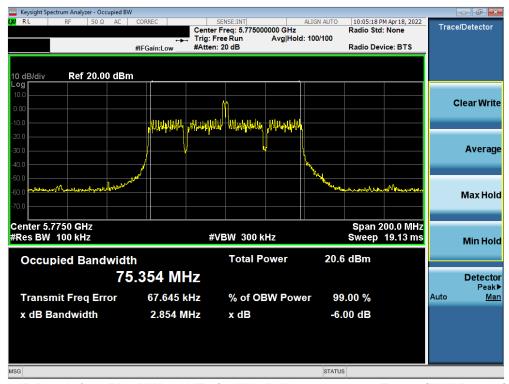
Plot 7-124. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

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Plot 7-125. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



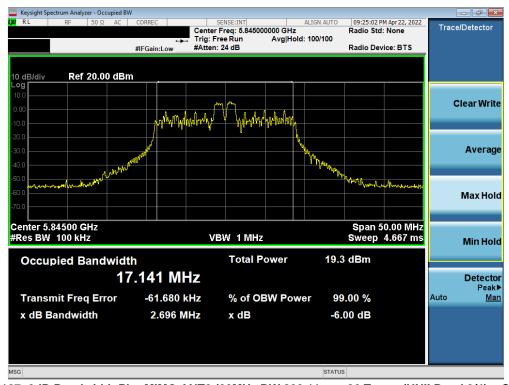
Plot 7-126. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	2.70
Band 4	5865	173	ax (20MHz)	26T	MCS0	2.68
Dallu 4	5885	177	ax (20MHz)	26T	MCS0	2.13
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	2.14
Band 4	5875	175	ax (40MHz)	26T	MCS0	2.16
	5855	171	ax (80MHz)	26T	MCS0	2.37
Band 3/4	5815	163	ax (160MHz L)	26T	MCS0	2.49
	5815	163	ax (160MHz U)	26T	MCS0	3.00

Table 7-11. Conducted Bandwidth Measurements MIMO ANT2 (26 Tones)

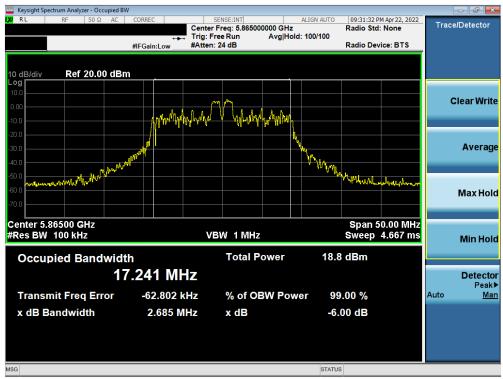


Plot 7-127. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 169)

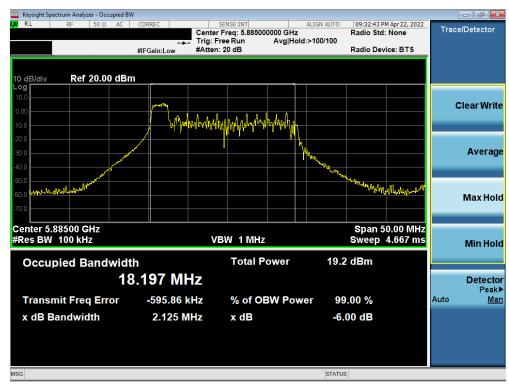
FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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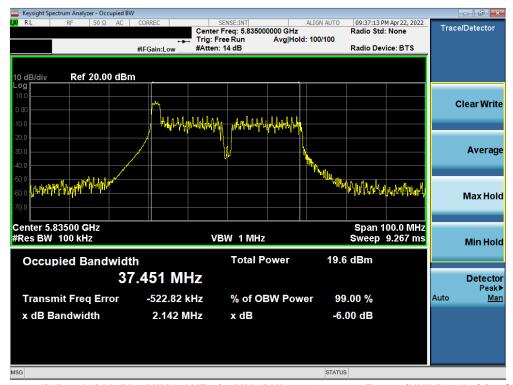
Plot 7-128. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 173)



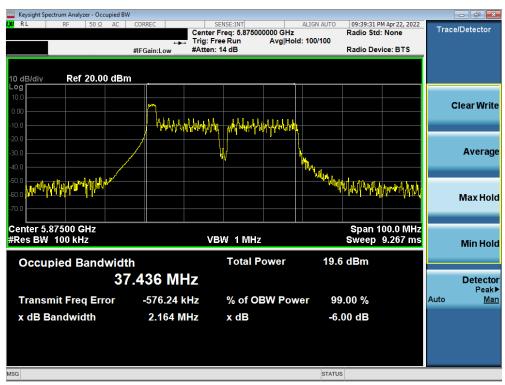
Plot 7-129. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 177)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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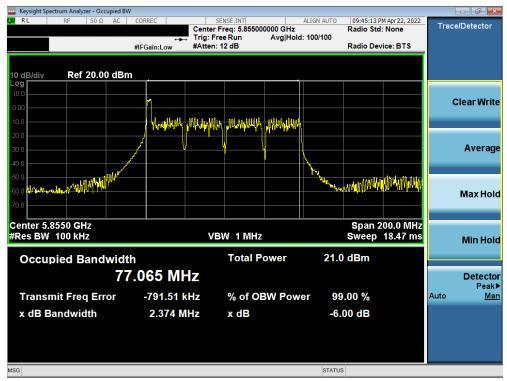
Plot 7-130. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 167)



Plot 7-131. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 175)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-132. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 171)



Plot 7-133. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW (L) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-134. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW (U) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO Antenna-2 6dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	242T	MCS0	19.03
	5785	157	ax (20MHz)	242T	MCS0	19.01
3 pt	5825	165	ax (20MHz)	242T	MCS0	18.85
Band	5755	151	ax (40MHz)	484T	MCS0	38.17
	5795	159	ax (40MHz)	484T	MCS0	38.15
	5775	155	ax (80MHz)	996T	MCS0	78.20

Table 7-12. Conducted Bandwidth Measurements MIMO ANT2 (Full Tones)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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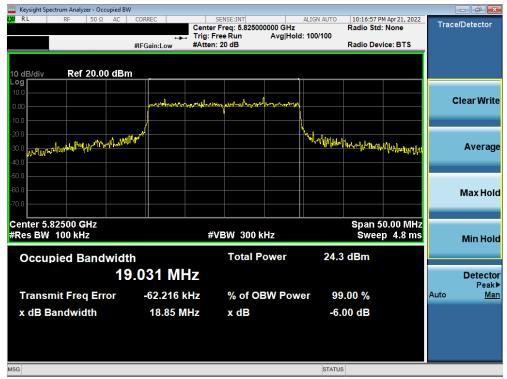
Plot 7-135. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 149)



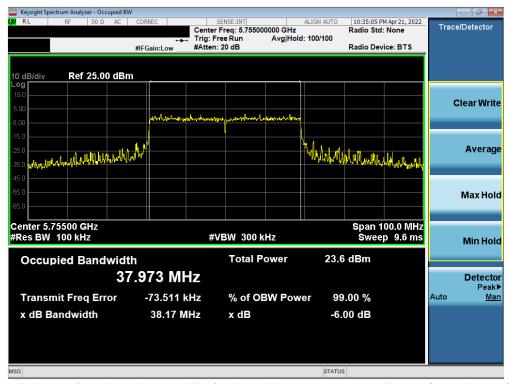
Plot 7-136. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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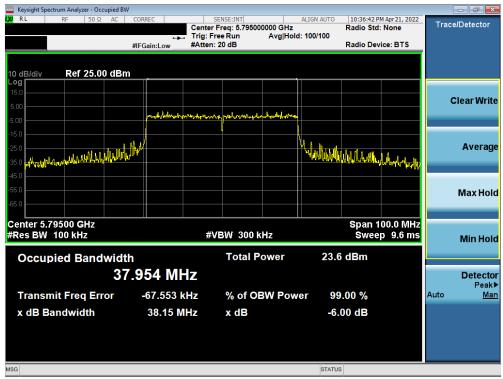
Plot 7-137. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 165)



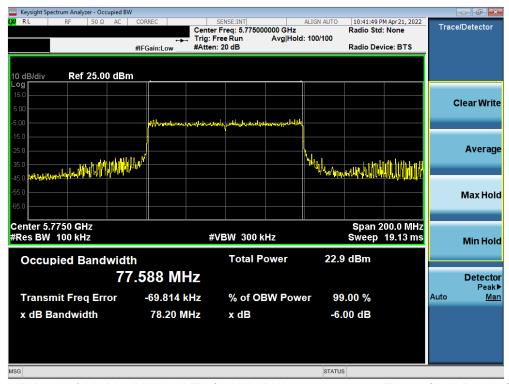
Plot 7-138. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-139. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 159)



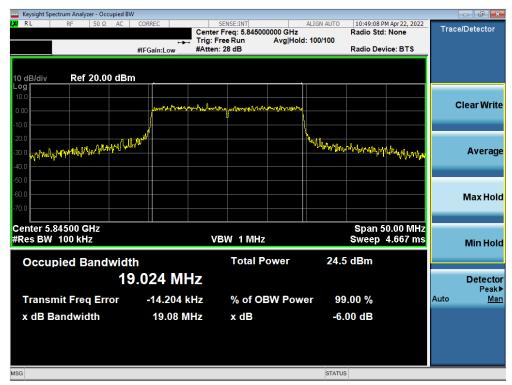
Plot 7-140. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	19.08
Band 4	5865	173	ax (20MHz)	242T	MCS0	19.12
Dallu 4	5885		ax (20MHz)	242T	MCS0	19.12
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	38.15
Band 4	5875	175	ax (40MHz)	484T	MCS0	38.11
	5855	171	ax (80MHz)	996T	MCS0	78.22
Band 3/4	5815	163	ax (160MHz L)	996T	MCS0	156.10
	5815	163	ax (160MHz U)	996T	MCS0	157.10

Table 7-13. Conducted Bandwidth Measurements MIMO ANT2 (Full Tones)



Plot 7-141. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3/4) - Ch. 169)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-142. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 4) - Ch. 173)



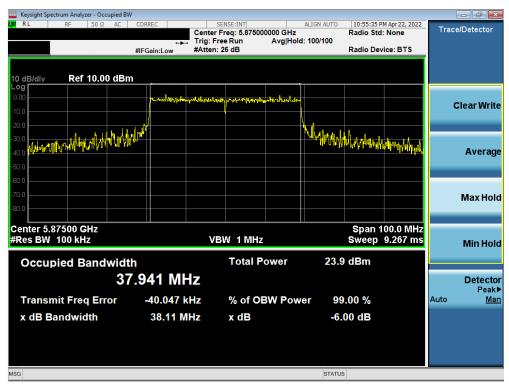
Plot 7-143. 6dB Bandwidth Plot MIMO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 4) - Ch. 177)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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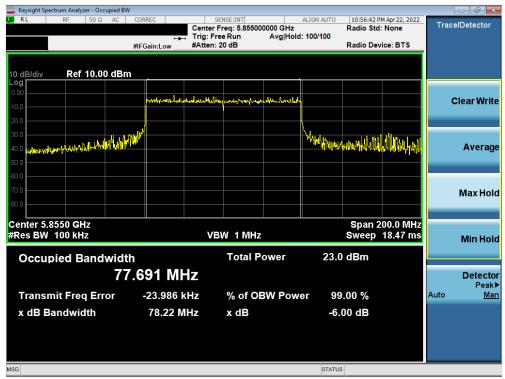
Plot 7-144. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3/4) - Ch. 167)



Plot 7-145. 6dB Bandwidth Plot MIMO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 4) - Ch. 175)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-146. 6dB Bandwidth Plot MIMO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 3/4) - Ch. 171)



Plot 7-147. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW (L) 802.11ax - 996 Tones (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-148. 6dB Bandwidth Plot MIMO ANT2 (160MHz BW (U) 802.11ax - 996 Tones (UNII Band 3/4) - Ch. 163)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4 UNII Output Power Measurement – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3)

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or 10 + 10 log10B, dBm.

In the 5.25-5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26$ dB BW) = 11 dBm + $10\log_{10}(18.81)$ = 23.74dBm. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17+10\log_{10}(18.81)$ dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26dB\ BW) = 11\ dBm + 10\log_{10}(18.74) = 23.73dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

In the 5.850 - 5.895 GHz band, the maximum permissible e.i.r.p is 30dBm.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

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MIMO Maximum Conducted Output Power Measurements (26 Tones)

								RU Index					Conducted	Conducted	Directional	M	M	e.i.r.p.	
Freq [MHz]	Channel	Detector	Tones		0			4			8		Power Limit	Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	Margin [dB]	
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	Margin [dB] [dBi]	[dBi]	[ubiii]	Limit [dDin]	wargin [ub]
5180	36	AVG	26T	10.96	10.64	13.81	10.94	10.53	13.75	10.90	10.45	13.69	23.98	-10.17	-0.96	12.85	22.39	-9.54	
5200	40	AVG	26T	10.92	10.50	13.73	10.93	10.46	13.71	10.82	10.33	13.59	23.98	-10.25	-0.96	12.77	22.39	-9.62	
5240	48	AVG	26T	10.99	10.81	13.91	10.93	10.68	13.82	10.86	10.63	13.76	23.98	-10.07	-0.96	12.95	22.39	-9.44	
5260	52	AVG	26T	10.6	10.66	13.64	10.73	10.55	13.65	10.67	10.54	13.62	23.47	-9.82	-0.91	12.74	29.47	-16.73	
5280	56	AVG	26T	10.62	10.72	13.68	10.70	10.60	13.66	10.56	10.59	13.59	23.47	-9.79	-0.91	12.77	29.47	-16.70	
5320	64	AVG	26T	10.22	10.65	13.45	10.61	10.53	13.58	10.60	10.57	13.60	23.47	-9.87	-0.91	12.69	29.47	-16.78	
5500	100	AVG	26T	10.88	10.65	13.78	10.94	10.55	13.76	10.84	10.68	13.77	22.80	-9.02	-1.91	11.87	28.80	-16.93	
5600	120	AVG	26T	10.99	10.46	13.74	10.98	10.51	13.76	10.99	10.58	13.80	22.80	-9.00	-1.91	11.89	28.80	-16.91	
5720	144	AVG	26T	10.8	10.64	13.73	10.77	10.53	13.66	10.79	10.68	13.75	22.80	-9.05	-1.91	11.84	28.80	-16.96	
5745	149	AVG	26T	10.78	10.49	13.65	10.79	10.47	13.64	10.76	10.62	13.70	30.00	-16.30	-0.75	12.95	-	-	
5785	157	AVG	26T	10.66	10.45	13.57	10.79	10.52	13.67	10.64	10.54	13.60	30.00	-16.33	-0.75	12.92	-	-	
5825	165	AVG	26T	10.99	10.44	13.73	10.99	10.48	13.75	10.98	10.40	13.71	30.00	-16.25	-0.75	13.00	-	-	
5845	169	AVG	26T	10.94	10.43	13.70	10.98	10.40	13.71	10.90	10.34	13.64	30.00	-16.29	-0.75	12.96	30.00	-17.04	
5865	173	AVG	26T	10.90	10.02	13.49	10.83	10.11	13.50	10.85	10.01	13.46	30.00	-16.50	-0.75	12.75	30.00	-17.25	
5885	177	AVG	26T	10.75	10.83	13.80	10.72	10.79	13.77	10.78	10.63	13.72	30.00	-16.20	-0.75	13.05	30.00	-16.95	

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

								RU Index					Conducted	Conducted	Directional	Max e.i.r.p.	Man 1	e.i.r.p.
Freq [MHz]	Channel	Detector	Tones		0			8			17		Power Limit	Power	Ant. Gain		Limit [dBm]	
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Linia (abin)	mai giii [ub
5190	38	AVG	26T	10.86	10.43	13.66	10.64	10.08	13.38	10.74	10.09	13.44	23.98	-10.32	-0.96	12.70	22.39	-9.69
5230	46	AVG	26T	10.64	10.51	13.59	10.36	10.18	13.28	10.60	10.29	13.46	23.98	-10.39	-0.96	12.63	22.39	-9.76
5270	54	AVG	26T	10.64	10.44	13.55	10.73	10.13	13.45	10.86	10.21	13.56	23.47	-9.91	-0.91	12.65	29.47	-16.82
5310	62	AVG	26T	10.98	10.35	13.69	10.32	10.23	13.29	10.48	10.51	13.51	23.47	-9.78	-0.91	12.78	29.47	-16.69
5510	102	AVG	26T	10.74	10.44	13.60	10.54	10.57	13.57	10.64	10.91	13.79	22.80	-9.01	-1.91	11.88	28.80	-16.92
5590	118	AVG	26T	10.95	10.25	13.62	10.61	10.10	13.37	10.84	10.43	13.65	22.80	-9.15	-1.91	11.74	28.80	-17.06
5710	142	AVG	26T	10.76	10.48	13.63	10.54	10.35	13.46	10.63	10.70	13.68	22.80	-9.12	-1.91	11.77	28.80	-17.03
5755	151	AVG	26T	10.73	10.38	13.57	10.45	10.16	13.32	10.65	10.58	13.63	30.00	-16.37	-0.75	12.88	-	-
5795	159	AVG	26T	10.97	10.25	13.64	10.60	10.02	13.33	10.86	10.28	13.59	30.00	-16.36	-0.75	12.89	-	-
5835	167	AVG	26T	10.83	10.25	13.56	10.59	10.03	13.33	10.74	10.22	13.50	30.00	-16.44	-0.75	12.81	30.00	-17.19
5875	175	AVG	26T	10.80	10.52	13.67	10.42	10.21	13.33	10.71	10.39	13.56	30.00	-16.33	-0.75	12.92	30.00	-17.08

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

									RU Index					Conducted	Conducted	Directional			-1
	Freq [MHz]	Channel	Detector	Tones		0			18			36		Power Limit	Power	Ant. Gain	Max e.i.r.p.	Limit [dBm]	
Ŧ (ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubilij	Limit [ubin]	wargin [ub]
≅ ±	5210	42	AVG	26T	10.97	10.95	13.97	10.67	10.39	13.54	10.75	10.32	13.55	23.98	-10.01	-0.96	13.01	22.39	-9.38
88 Š:	5290	58	AVG	26T	10.61	10.81	13.72	10.32	10.37	13.36	10.53	10.39	13.47	23.47	-9.75	-0.96	12.76	29.47	-16.71
ž Š	5530	106	AVG	26T	10.84	10.19	13.54	10.81	10.48	13.66	10.82	10.97	13.91	22.80	-8.89	-1.91	12.00	28.80	-16.80
Ξ E	5610	122	AVG	26T	10.65	10.01	13.35	10.73	10.24	13.50	10.96	10.69	13.84	22.80	-8.96	-1.91	11.93	28.80	-16.87
වූ කී	5690	138	AVG	26T	10.94	10.58	13.77	10.62	10.50	13.57	10.73	10.99	13.87	22.80	-8.93	-1.91	11.96	28.80	-16.84
	5775	155	AVG	26T	10.73	10.27	13.52	10.48	10.19	13.35	10.43	10.55	13.50	30.00	-16.48	-0.75	12.77	-	-
	5855	171	AVG	26T	10.93	10.20	13.59	10.67	10.01	13.36	10.74	10.08	13.43	30.00	-16.41	-0.75	12.84	30.00	-17.16

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

≥	F			Average Conducted Power (dBm)										Conducted				
m	Freq [MHz]	Channel	Tones		RU Index: 0			RU Index: 18	1		RU Index: 36		Power Limit	Power Limit Power Margin	Ant. Gain [dBi]	Directional Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
[¥ 🕋				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]				
[⋛ ≂	5250	50	26T	10.84	10.51	13.69	10.80	10.65	13.74	10.99	10.69	13.85	23.98	-10.13	-0.96	12.89	22.39	-9.50
09	5570	114	26T	10.96	10.50	13.75	10.88	10.05	13.50	10.77	10.01	13.42	23.47	-9.72	-0.75	13.00	28.80	-15.80
	5045	400	007	40.05	40.40	40.50	40.04	0.00	40.47	40.00	0.07	40.40			0.75	40.04	00.00	_

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

≥	F						Average Co	onducted Po	wer (dBm)				Conducted	Conducted				
m	Freq [MHz]	Channel	Tones		RU Index: 0			RU Index: 18			RU Index: 36		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit (dBm)	e.i.r.p. Margin [dB]
H C	[IVII 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]		[]		1
[\	5250	50	26T	10.92	10.71	13.83	10.90	10.76	13.84	10.80	10.73	13.78	23.98	-10.14	-0.96	12.88	22.39	-9.51
09	5570	114	26T	10.58	10.05	13.33	10.58	10.41	13.51	10.27	10.61	13.45	23.47	-9.96	-0.75	12.76	28.80	-16.04
=	5815	163	26T	10.66	10.06	13.38	10.96	10.21	13.61	10.85	10.14	13.52			-0.75	12.86	36.00	-23.14

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

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MIMO Conducted Output Power Measurements (52 Tones)

								RU Index					Conducted	Conducted	Directional	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p.
Freq [MHz] Channel	Detector	Tones		37			39			40		Power Limit	Power	Ant. Gain		Limit [dBm]	
				ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniit [abin]	mai giii [ub]
5180	36	AVG	52T	13.99	13.93	16.97	13.78	13.59	16.70	13.99	13.81	16.91	23.98	-7.01	-0.96	16.01	22.39	-6.38
5200	40	AVG	52T	13.99	13.87	16.94	13.79	13.64	16.73	13.95	13.84	16.91	23.98	-7.04	-0.96	15.98	22.39	-6.41
5240	48	AVG	52T	13.99	13.94	16.98	13.81	13.60	16.72	13.98	13.85	16.93	23.98	-7.00	-0.96	16.02	22.39	-6.37
5260	52	AVG	52T	13.96	13.94	16.96	13.71	13.67	16.70	13.92	13.91	16.93	23.47	-6.51	-0.91	16.05	29.47	-13.42
5280	56	AVG	52T	13.92	13.89	16.92	13.60	13.70	16.66	13.84	13.90	16.88	23.47	-6.55	-0.91	16.01	29.47	-13.46
5320	64	AVG	52T	13.31	13.73	16.54	13.50	13.83	16.68	13.24	13.70	16.49	23.47	-6.79	-0.91	15.77	29.47	-13.70
5500	100	AVG	52T	13.99	13.61	16.81	13.82	13.41	16.63	13.98	13.64	16.82	22.80	-5.98	-1.91	14.91	28.80	-13.89
5600	120	AVG	52T	13.65	13.12	16.40	13.90	13.93	16.93	13.62	13.25	16.45	22.80	-5.87	-1.91	15.02	28.80	-13.78
5720	144	AVG	52T	13.68	13.31	16.51	13.96	13.43	16.71	13.64	13.41	16.54	22.80	-6.09	-1.91	14.80	28.80	-14.00
5745	149	AVG	52T	13.63	13.20	16.43	13.89	13.31	16.62	13.56	13.32	16.45	30.00	-13.38	-0.75	15.87	-	-
5785	157	AVG	52T	13.98	13.81	16.91	13.77	13.61	16.70	13.99	13.84	16.93	30.00	-13.07	-0.75	16.18	-	-
5825	165	AVG	52T	13.85	13.04	16.47	13.83	13.45	16.65	13.99	13.71	16.86	30.00	-13.14	-0.75	16.11	-	-
5845	169	AVG	52T	13.99	13.59	16.80	13.76	13.34	16.57	13.98	13.52	16.77	30.00	-13.20	-0.75	16.05	30.00	-13.95
5865	173	AVG	52T	13.67	13.06	16.39	13.88	13.28	16.60	13.53	13.01	16.29	30.00	-13.40	-0.75	15.85	30.00	-14.15
5885	177	AVG	52T	13.42	13.74	16.59	13.48	13.95	16.73	13.38	13.66	16.53	30.00	-13.27	-0.75	15.98	30.00	-14.02

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

									RU Index					Conducted	Conducted	Directional	M	Max e.i.r.p.	e.i.r.p.
Fr	req [MHz]	Channel	Detector	Tones		37			40			44		Power Limit	Power	Ant. Gain		Limit [dBm]	
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Limit [ubin]	iwai giii [ub]
_	5190	38	AVG	52T	13.54	13.39	16.48	13.85	13.76	16.82	13.99	13.79	16.90	23.98	-7.08	-0.96	15.94	22.39	-6.45
÷	5230	46	AVG	52T	13.60	13.97	16.80	13.78	13.99	16.90	13.52	13.80	16.67	23.98	-7.08	-0.96	15.94	22.39	-6.45
0	5270	54	AVG	52T	13.92	13.99	16.97	13.74	13.70	16.73	13.86	13.87	16.88	23.47	-6.50	-0.91	16.06	29.47	-13.41
2	5310	62	AVG	52T	13.86	13.99	16.94	13.62	13.81	16.73	13.75	13.98	16.88	23.47	-6.53	-0.91	16.03	29.47	-13.44
6	5510	102	AVG	52T	13.99	13.69	16.85	13.79	13.50	16.66	13.88	13.80	16.85	22.80	-5.95	-1.91	14.94	28.80	-13.86
_	5590	118	AVG	52T	13.67	13.20	16.45	13.92	13.97	16.96	13.51	13.43	16.48	22.80	-5.84	-1.91	15.05	28.80	-13.75
a	5710	142	AVG	52T	13.73	13.42	16.59	13.99	13.62	16.82	13.63	13.65	16.65	22.80	-5.98	-1.91	14.91	28.80	-13.89
ш	5755	151	AVG	52T	13.90	13.45	16.69	13.92	13.89	16.92	13.79	13.62	16.72	30.00	-13.08	-0.75	16.17		-
	5795	159	AVG	52T	13.81	13.49	16.66	13.79	13.85	16.83	13.75	13.59	16.68	30.00	-13.17	-0.75	16.08	-	-
	5755	151	AVG	52T	13.88	13.08	16.51	13.87	13.53	16.71	13.99	13.76	16.89	30.00	-13.11	-0.75	16.14	30.00	-13.86
	5795	159	AVG	52T	13.88	13.48	16.69	13.61	13.20	16.42	13.81	13.39	16.62	30.00	-13.31	-0.75	15.94	30.00	-14.06

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

									RU Index					Conducted	Conducted	Directional			-1
	Freq [MHz]	Channel	Detector	Tones		37			44			52		Power Limit	Power	Ant. Gain	Max e.i.r.p.	Limit [dBm]	e.i.r.p.
¥ (=					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubilij	Limit [ubmj	war gin [ub]
≅ ±	5210	42	AVG	52T	13.35	13.79	16.59	13.51	13.87	16.70	13.63	13.72	16.69	23.98	-7.28	-0.96	15.74	22.39	-6.65
88 Vic 80	5290	58	AVG	52T	13.67	13.72	16.71	13.75	13.91	16.84	13.88	13.95	16.93	23.47	-6.54	-0.96	15.97	29.47	-13.50
) j	5530	106	AVG	52T	13.99	13.62	16.82	13.74	13.55	16.66	13.80	13.88	16.85	22.80	-5.95	-1.91	14.94	28.80	-13.86
ΞE	5610	122	AVG	52T	13.83	13.07	16.48	13.51	13.04	16.29	13.59	13.47	16.54	22.80	-6.26	-1.91	14.63	28.80	-14.17
ලු ක	5690	138	AVG	52T	13.70	13.07	16.41	13.96	13.59	16.79	13.97	13.98	16.99	22.80	-5.81	-1.91	15.08	28.80	-13.72
	5775	155	AVG	52T	13.99	13.25	16.65	13.79	13.23	16.53	13.90	13.48	16.71	30.00	-13.29	-0.75	15.96	-	-
	5855	171	AVG	52T	13.95	13.02	16.52	13.89	13.38	16.65	13.98	13.44	16.73	30.00	-13.27	-0.75	15.98	30.00	-14.02

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

≥		F						Average C	onducted Po	wer (dBm)				Conducted	Conducted				
m		Freq [MHz]	Channel	Tones		RU Index: 37	'		RU Index: 44	ı		RU Index: 52	2	Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
부	٦ l	[1411 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	,	[]		11
Ē	=	5250	50	52T	13.45	13.62	16.55	13.62	13.42	16.53	13.91	13.66	16.80	23.98	-7.18	-0.96	15.84	22.39	-6.55
9		5570	114	52T	13.69	12.94	16.34	13.86	13.01	16.47	13.63	12.93	16.30	23.47	-7.00	-0.75	15.72	28.80	-13.08
	1	5045	400	FOT	40.00	40.50	40.70	40.04	40.00	40.50	10.57	40.00	40.44			0.75	45.00	00.00	00.00

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

BW	F						Average Co	onducted Po	wer (dBm)				Conducted	Conducted				
	Freq [MHz]	Channel	Tones		RU Index: 37	·		RU Index: 44	1		RU Index: 52		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit (dBm)	e.i.r.p. Margin [dB]
HZ U	[IVIITZ]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	ruit. Gain [aBi]	[dbiii]	Linit [dDin]	[GD]
[₹ ₹	5250	50	52T	13.89	13.80	16.86	13.79	13.81	16.81	13.67	13.86	16.78	23.98	-7.12	-0.96	15.90	22.39	-6.49
160MI (L	5570	114	52T	13.96	13.37	16.69	13.88	13.64	16.77	13.81	13.91	16.87	23.47	-6.60	-0.75	16.12	28.80	-12.68
-	5815	163	52T	13.80	13.79	16.81	13.91	13.93	16.93	13.93	13.92	16.94			-0.75	16.19	36.00	-19.81

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

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MIMO Conducted Output Power Measurements (106 Tones)

							RU I	ndex			Conducted	Conducted	Directional		M	
width)	Freq [MHz]	Channel	Detector	Tones		53			54		Power Limit	Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
ᇴ					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Cirriit [GDIII]	wargiii [ub]
Š	5180	36	AVG	106T	15.35	15.55	18.46	15.75	15.99	18.88	23.98	-5.10	-0.96	17.92	22.39	-4.47
<u> </u>	5200	40	AVG	106T	15.7	15.99	18.86	15.68	15.86	18.78	23.98	-5.12	-0.96	17.90	22.39	-4.49
and	5240	48	AVG	106T	15.61	15.68	18.66	15.85	15.99	18.93	23.98	-5.05	-0.96	17.97	22.39	-4.42
ਰ	5260	52	AVG	106T	15.65	15.99	18.83	15.60	15.92	18.77	23.47	-4.64	-0.91	17.92	29.47	-11.55
Δ	5280	56	AVG	106T	15.61	15.99	18.81	15.62	15.91	18.78	23.47	-4.66	-0.91	17.90	29.47	-11.57
N	5320	64	AVG	106T	15.53	15.94	18.75	15.49	15.88	18.70	23.47	-4.72	-0.91	17.84	29.47	-11.63
I	5500	100	AVG	106T	15.79	15.80	18.81	15.78	15.82	18.81	22.80	-3.99	-1.91	16.90	28.80	-11.90
20M	5600	120	AVG	106T	15.76	15.99	18.89	15.80	15.98	18.90	22.80	-3.90	-1.91	16.99	28.80	-11.81
5	5720	144	AVG	106T	15.8	15.78	18.80	15.79	15.74	18.78	22.80	-4.00	-1.91	16.89	28.80	-11.91
Z)	5745	149	AVG	106T	15.78	15.57	18.69	15.73	15.62	18.69	30.00	-11.31	-0.75	17.94	-	-
N	5785	157	AVG	106T	15.77	15.78	18.79	15.72	15.85	18.80	30.00	-11.20	-0.75	18.05	-	-
_	5825	165	AVG	106T	15.83	15.79	18.82	15.82	15.73	18.79	30.00	-11.18	-0.75	18.07	-	-
Ġ	5845	169	AVG	106T	15.80	15.69	18.76	15.77	15.65	18.72	30.00	-11.24	-0.75	18.01	30.00	-11.99
2	5865	173	AVG	106T	15.75	15.39	18.58	15.73	15.40	18.58	30.00	-11.42	-0.75	17.83	30.00	-12.17
	5885	177	AVG	106T	15.07	15.75	18.43	15.07	15.66	18.39	30.00	-11.57	-0.75	17.68	30.00	-12.32

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

									RU Index					Conducted	Conducted	Directional			
	Freq [MHz]	Channel	Detector	Tones		53			54			56		Power Limit		Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Linnit [GDin]	margin [ub]
	5190	38	AVG	106T	15.78	15.93	18.87	15.62	15.74	18.69	15.76	15.78	18.78	23.98	-5.11	-0.96	17.91	22.39	-4.48
끆	5230	46	AVG	106T	15.55	15.65	18.61	15.65	15.91	18.79	15.73	15.97	18.86	23.98	-5.12	-0.96	17.90	22.39	-4.49
D	5270	54	AVG	106T	15.65	15.98	18.83	15.56	15.79	18.69	15.54	15.84	18.70	23.47	-4.64	-0.91	17.92	29.47	-11.55
Ξ	5310	62	AVG	106T	15.55	15.85	18.71	15.41	15.70	18.57	15.49	15.80	18.66	23.47	-4.76	-0.91	17.80	29.47	-11.67
б	5510	102	AVG	106T	15.83	15.73	18.79	15.62	15.55	18.60	15.68	15.83	18.77	22.80	-4.01	-1.91	16.88	28.80	-11.92
Č	5590	118	AVG	106T	15.92	15.96	18.95	15.68	15.83	18.77	15.41	15.63	18.53	22.80	-3.85	-1.91	17.04	28.80	-11.76
a	5710	142	AVG	106T	15.92	15.72	18.83	15.72	15.62	18.68	15.84	15.94	18.90	22.80	-3.90	-1.91	16.99	28.80	-11.81
8	5755	151	AVG	106T	15.89	15.91	18.91	15.73	15.80	18.78	15.78	15.96	18.88	30.00	-11.09	-0.75	18.16		
	5795	159	AVG	106T	15.86	15.70	18.79	15.66	15.53	18.61	15.76	15.75	18.77	30.00	-11.21	-0.75	18.04	-	-
	5755	151	AVG	106T	15.86	15.81	18.85	15.63	15.62	18.64	15.72	15.80	18.77	30.00	-11.15	-0.75	18.10	30.00	-11.90
	5795	159	AVG	106T	15.93	15.99	18.97	15.71	15.73	18.73	15.83	15.85	18.85	30.00	-11.03	-0.75	18.22	30.00	-11.78

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

									RU Index					Conducted	Conducted	Directional			
	Freq [MHz]	Channel	Detector	Tones		53			56			60		Power Limit	Power	Ant. Gain	Max e.i.r.p.	Limit [dBm]	
보 수					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Lillin [ubili]	margin [ub]
三芸	5210	42	AVG	106T	15.65	15.86	18.77	15.67	15.99	18.84	15.76	15.95	18.87	23.98	-5.11	-0.96	17.91	22.39	-4.48
8 ×	5290	58	AVG	106T	15.50	15.79	18.66	15.55	15.85	18.71	15.56	15.88	18.73	23.47	-4.74	-0.96	17.77	29.47	-11.70
z o	5530	106	AVG	106T	15.68	15.49	18.60	15.77	15.88	18.84	15.45	15.78	18.63	22.80	-3.96	-1.91	16.93	28.80	-11.87
ΞΈ.	5610	122	AVG	106T	15.96	15.80	18.89	15.61	15.83	18.73	15.31	15.84	18.59	22.80	-3.91	-1.91	16.98	28.80	-11.82
9 g	5690	138	AVG	106T	15.85	15.35	18.62	15.99	15.92	18.97	15.55	15.81	18.69	22.80	-3.83	-1.91	17.06	28.80	-11.74
	5775	155	AVG	106T	15.94	15.77	18.87	15.67	15.72	18.71	15.73	15.97	18.86	30.00	-11.13	-0.75	18.12	-	
	5855	171	AVG	106T	15.85	15.65	18.76	15.60	15.41	18.52	15.66	15.48	18.58	30.00	-11.24	-0.75	18.01	30.00	-11.99

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

3	Frea						Average C	onducted Po	wer (dBm)				Conducted	Conducted				
m	[MHz]	Channel	Tones		RU Index: 53			RU Index: 56	;		RU Index: 60	1	Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
4 🗇	[IVII 12]			ANT1	ANT2	OMIM	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	, , , , , , , , , , , , , , , , , , , ,	[]		13
	5250	50	106T	15.85	15.99	18.93	15.91	15.97	18.95	15.67	15.69	18.69	23.98	-5.03	-0.96	17.99	22.39	-4.40
09	5570	114	106T	15.99	15.02	18.54	15.91	15.10	18.53	15.70	15.03	18.39	23.47	-4.93	-0.75	17.79	28.80	-11.01
=	5815	163	106T	15.82	15.18	18.52	15.75	15.36	18.57	15.56	15.35	18.47			-0.75	17.82	36.00	-18.18

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

≥	F						Average C	onducted Po	wer (dBm)				Conducted	Conducted				
ВМ	Freq [MHz]	Channel	Tones		RU Index: 53	1		RU Index: 56	3		RU Index: 60)	Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit (dBm)	e.i.r.p. Margin [dB]
7 (C)	[1411 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]		[]		11
≢ਟ	5250	50	106T	15.73	15.76	18.76	15.65	15.82	18.75	15.52	15.88	18.71	23.98	-5.22	-0.96	17.80	22.39	-4.59
160M	5570	114	106T	15.65	15.11	18.40	15.71	15.40	18.57	15.51	15.66	18.60	23.47	-4.87	-0.75	17.85	28.80	-10.95
\sim	FOAF	400	40CT	45.57	45.44	40.50	45.00	45.54	40.00	45.00	45.55	40.00			0.75	47.00	20.00	40.40

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

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MIMO Conducted Output Power Measurements (242 Tones)

						RU Index		Conducted	Conducted	Directional			
‡	Freq [MHz]	Channel	Detector	Tones		61		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p.
ö					ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	Lapini	Limit [dbin]	wargin [ub]
Š	5180	36	AVG	242T	17.45	17.99	20.74	23.98	-3.24	-0.96	19.78	22.39	-2.61
_ ≥	5200	40	AVG	242T	17.42	17.97	20.71	23.98	-3.27	-0.96	19.75	22.39	-2.64
nd	5240	48	AVG	242T	17.28	17.61	20.46	23.98	-3.52	-0.96	19.50	22.39	-2.89
ਰ	5260	52	AVG	242T	17.05	17.58	20.33	23.47	-3.14	-0.91	19.42	29.47	-10.05
m	5280	56	AVG	242T	17.03	17.59	20.33	23.47	-3.14	-0.91	19.42	29.47	-10.05
N	5320	64	AVG	242T	17.2	17.98	20.62	23.47	-2.85	-0.91	19.71	29.47	-9.76
主	5500	100	AVG	242T	17.61	17.80	20.72	22.80	-2.08	-1.91	18.81	28.80	-9.99
Ξ	5600	120	AVG	242T	17.54	17.94	20.75	22.80	-2.05	-1.91	18.84	28.80	-9.96
5	5720	144	AVG	242T	17.62	17.78	20.71	22.80	-2.09	-1.91	18.80	28.80	-10.00
<u>N</u>	5745	149	AVG	242T	17.52	17.66	20.60	30.00	-9.40	-0.75	19.85	-	-
N	5785	157	AVG	242T	17.66	17.82	20.75	30.00	-9.25	-0.75	20.00	-	-
꾸	5825	165	AVG	242T	17.68	17.76	20.73	30.00	-9.27	-0.75	19.98	-	-
5	5845	169	AVG	242T	17.57	17.66	20.63	30.00	-9.37	-0.75	19.88	30.00	-10.12
2	5865	173	AVG	242T	17.79	17.88	20.85	30.00	-9.15	-0.75	20.10	30.00	-9.90
	5885	177	AVG	242T	17.08	17.94	20.54	30.00	-9.46	-0.75	19.79	30.00	-10.21

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

							RU I	ndex			Conducted	Conducted	Directional			
	Freq [MHz]	Channel	Detector	Tones		61			62		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p.
N					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniii (abiii)	wargiii [GD]
i e	5190	38	AVG	242T	16.56	16.76	19.67	16.50	16.70	19.61	23.98	-4.31	-0.96	18.71	22.39	-3.68
₹	5230	46	AVG	242T	16.53	16.82	19.69	16.50	16.71	19.62	23.98	-4.29	-0.96	18.73	22.39	-3.66
5 5	5270	54	AVG	242T	16.47	16.80	19.65	16.43	16.73	19.59	23.47	-3.82	-0.91	18.74	29.47	-10.73
4 >	5310	62	AVG	242T	16.32	16.85	19.60	16.27	16.74	19.52	23.47	-3.87	-0.91	18.69	29.47	-10.78
5	5510	102	AVG	242T	16.54	16.65	19.61	16.46	16.68	19.58	22.80	-3.19	-1.91	17.70	28.80	-11.10
우드	5590	118	AVG	242T	16.57	16.73	19.66	16.45	16.82	19.65	22.80	-3.14	-1.91	17.75	28.80	-11.05
元 盈	5710	142	AVG	242T	16.59	16.67	19.64	16.53	16.82	19.69	22.80	-3.11	-1.91	17.78	28.80	-11.02
5 <u>G</u>	5755	151	AVG	242T	16.65	16.75	19.71	16.58	16.80	19.70	30.00	-10.29	-0.75	18.96	-	-
47	5795	159	AVG	242T	16.54	16.66	19.61	16.52	16.72	19.63	30.00	-10.37	-0.75	18.88	-	-
	5755	151	AVG	242T	16.55	16.70	19.64	16.51	16.67	19.60	30.00	-10.36	-0.75	18.89	30.00	-11.11
	5795	159	AVG	242T	16.64	16.82	19.74	16.57	16.75	19.67	30.00	-10.26	-0.75	18.99	30.00	-11.01

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

									RU Index					Conducted	Conducted	Directional		M	-1
Freq [M	Hz] Char	nnel	Detector	Tones		61			62			64		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Limit [dBm]	
					ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Linne (ubin)	margin [GD]
5210	42	2	AVG	242T	14.98	14.87	17.94	14.98	14.57	17.79	14.67	14.69	17.69	23.98	-6.04	-0.96	16.98	22.39	-5.41
5290) 58	8	AVG	242T	15.44	15.76	18.61	15.50	15.89	18.71	15.53	15.83	18.69	23.47	-4.76	-0.96	17.75	29.47	-11.72
5530	10	06	AVG	242T	15.99	15.89	18.95	15.85	15.87	18.87	15.43	15.69	18.57	22.80	-3.85	-1.91	17.04	28.80	-11.76
5610	12	22	AVG	242T	15.91	15.73	18.83	15.69	15.78	18.75	15.65	15.99	18.83	22.80	-3.97	-1.91	16.92	28.80	-11.88
5690	13	38	AVG	242T	15.78	15.32	18.57	15.99	15.77	18.89	15.59	15.63	18.62	22.80	-3.91	-1.91	16.98	28.80	-11.82
5775	15	55	AVG	242T	15.87	15.65	18.77	15.63	15.68	18.67	15.68	15.77	18.74	30.00	-11.23	-0.75	18.02	-	
5855	17	71	AVG	242T	15.78	15.55	18.68	15.62	15.43	18.54	15.64	15.33	18.50	30.00	-11.32	-0.75	17.93	30.00	-12.07

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

BW	F						Average C	onducted Po	ower (dBm)				Conducted	Conducted				
	Freq [MHz]	Channel	Tones		RU Index: 61			RU Index: 62	2		RU Index: 64		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
160MHz (L)	[IVITZ]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	rana Gam [abi]	[ubiii]	Lillin [dbill]	[uD]
	5250	50	242T	15.74	15.72	18.74	15.98	15.97	18.99	15.77	15.74	18.77	23.98	-4.99	-0.96	18.03	22.39	-4.36
90	5570	114	242T	15.68	14.76	18.25	15.65	14.71	18.22	15.71	15.05	18.40	23.47	-5.07	-0.75	17.65	28.80	-11.15
—	5815	163	242T	15.92	15.31	18.64	15.89	15.39	18.66	15.50	15.39	18.46		18.66	-0.75	17.91	36.00	-18.09

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

3	Frea						Average C	onducted Po	wer (dBm)				Conducted	Conducted				
m	[MHz]	Channel	Tones		RU Index: 61			RU Index: 62	1		RU Index: 64		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
45	[1411 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	,	[]		11
[≩ ८	5250	50	242T	15.64	15.84	18.75	15.55	15.86	18.72	15.71	15.92	18.83	23.98	-5.15	-0.96	17.87	22.39	-4.52
09	5570	114	242T	15.73	15.20	18.48	15.68	15.37	18.54	15.65	15.68	18.68	23.47	-4.79	-0.75	17.93	28.80	-10.87
~	5815	163	242T	15.60	15.47	18.55	15.68	15.56	18.63	15.70	15.61	18.67			-0.75	17.92	36.00	-18.08

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

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MIMO Conducted Output Power Measurements (484 Tones)

						RU Index		Conducted	Conducted	Directional			
	Freq [MHz]	Channel	Detector	Tones		65		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p.
N .					ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniit [abin]	wargiii [GB]
₩	5190	38	AVG	484T	14.72	14.45	17.60	23.98	-6.38	-0.96	16.64	22.39	-5.75
	5230	46	AVG	484T	16.58	16.87	19.74	23.98	-4.24	-0.96	18.78	22.39	-3.61
5.2	5270	54	AVG	484T	16.51	16.81	19.67	23.47	-3.80	-0.91	18.76	29.47	-10.71
4 ≥	5310	62	AVG	484T	16.20	16.70	19.47	23.47	-4.00	-0.91	18.56	29.47	-10.91
	5510	102	AVG	484T	16.56	16.77	19.68	22.80	-3.12	-1.91	17.77	28.80	-11.03
₽ ⊆	5590	118	AVG	484T	16.59	16.87	19.74	22.80	-3.06	-1.91	17.83	28.80	-10.97
二 四	5710	142	AVG	484T	16.60	16.80	19.71	22.80	-3.09	-1.91	17.80	28.80	-11.00
නු ක	5755	151	AVG	484T	16.65	16.78	19.73	30.00	-10.27	-0.75	18.98	-	-
4,	5795	159	AVG	484T	16.58	16.70	19.65	30.00	-10.35	-0.75	18.90	-	-
	5755	151	AVG	484T	16.56	16.69	19.64	30.00	-10.36	-0.75	18.89	30.00	-11.11
	5795	159	AVG	484T	16.63	16.75	19.70	30.00	-10.30	-0.75	18.95	30.00	-11.05

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

							RU I	ndex			Conducted	Conducted	Directional	M		
	Freq [MHz]	Channel	Detector	Tones		65			66		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p.
H (ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Liniii (abiii)	wargin [ub]
(80M) width	5210	42	AVG	484T	15.45	15.36	18.42	15.39	15.40	18.41	23.98	-5.56	-0.96	17.46	22.39	-4.93
80 Vic	5290	58	AVG	484T	15.58	15.93	18.77	15.46	15.75	18.62	23.47	-4.70	-0.96	17.81	29.47	-11.66
z (br	5530	106	AVG	484T	15.90	15.86	18.89	15.68	15.97	18.84	22.80	-3.91	-1.91	16.98	28.80	-11.82
	5610	122	AVG	484T	15.78	15.73	18.77	15.59	15.96	18.79	22.80	-4.01	-1.91	16.88	28.80	-11.92
5G Ba	5690	138	AVG	484T	15.66	15.31	18.50	15.51	15.54	18.54	22.80	-4.26	-1.91	16.63	28.80	-12.17
	5775	155	AVG	484T	15.76	15.62	18.70	15.60	15.73	18.68	30.00	-11.30	-0.75	17.95	-	-
	5855	171	AVG	484T	15.67	15.51	18.60	15.99	15.92	18.97	30.00	-11.03	-0.75	18.22	30.00	-11.78

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

3	F				Aver	age Conduc	ted Power (d	dBm)		Conducted	Conducted				
m	Freq [MHz]	Channel	Tones		RU Index: 65			RU Index: 66		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit (dBm)	e.i.r.p. Margin [dB]
7 7	[IVII 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]	,	[]		ļ,
₹ ≂	5250	50	484T	15.93	15.98	18.97	15.78	15.75	18.78	23.98	-5.01	-0.96	18.01	22.39	-4.38
09	5570	114	484T	15.99	15.11	18.58	15.73	15.01	18.40	23.47	-4.89	-0.75	17.83	28.80	-10.97
Ŧ	5815	163	484T	15.80	15.26	18.55	15.53	15.30	18.43			-0.75	17.80	36.00	-18.20

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

3	Frea				Aver	age Conduc	ted Power (d	dBm)		Conducted	Conducted				
<u>Θ</u>	[MHz]	Channel	Tones		RU Index: 65			RU Index: 66	i	Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit (dBm)	e.i.r.p. Margin [dB]
HZ U)	[1411 12]			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	[dBm]	[dB]				
[₹ ८	5250	50	484T	15.53	15.81	18.68	15.63	15.89	18.77	23.98	-5.21	-0.96	17.81	22.39	-4.58
60	5570	114	484T	15.63	15.21	18.44	15.58	15.54	18.57	23.47	-4.90	-0.75	17.82	28.80	-10.98
–	5815	163	484T	15.52	15.53	18.54	15.70	15.56	18.64			-0.75	17.89	36.00	-18.11

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

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MIMO Conducted Output Power Measurements (996 Tones)

						RU Index		Conducted	Conducted	Directional	M 1		
	Freq [MHz]	Channel	Detector	Tones		67		Power Limit	Power	Ant. Gain	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p.
¥					ANT1	ANT2	MIMO	[dBm]	Margin [dB]	[dBi]	[ubiii]	Lillin [abin]	wargin [ub]
夏春	5210	42	AVG	996T	15.75	15.97	18.87	23.98	-5.11	-0.96	17.91	22.39	-4.48
(80 V.	5290	58	AVG	996T	15.51	15.85	18.69	23.47	-4.78	-0.96	17.73	29.47	-11.74
z (5530	106	AVG	996T	15.83	15.81	18.83	22.80	-3.97	-1.91	16.92	28.80	-11.88
ヺ゙゠	5610	122	AVG	996T	15.69	15.76	18.74	22.80	-4.06	-1.91	16.83	28.80	-11.97
5G B	5690	138	AVG	996T	15.99	15.89	18.95	22.80	-3.85	-1.91	17.04	28.80	-11.76
	5775	155	AVG	996T	15.69	15.63	18.67	30.00	-11.33	-0.75	17.92	-	-
	5855	171	AVG	996T	15.58	15.30	18.45	30.00	-11.55	-0.75	17.70	30.00	-12.30

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

≥	From			Average C	Average Conducted Power (dBm)		Conducted Condu	Conducted							
m	Freq [MHz]	Channel	Tones		RU Index: 67		RU Index: 67		Power Limit	Power Margin	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
7 7	[1411 12]			ANT1	ANT2	MIMO	[dBm]	[dB]		[]		[]			
	5250	50	996T	15.82	15.72	18.78	23.98	-5.20	-0.96	17.82	22.39	-4.57			
09	5570	114	996T	15.78	14.90	18.37	23.47	-5.10	-0.75	17.62	28.80	-11.18			
Ŧ	5815	163	996T	15.63	15.15	18.41			-0.75	17.66	36.00	-18.34			

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

BW	Freq [MHz]	Channel	Tones		onducted Po RU Index: 67		Power Limit Power Margin	Directional	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]	
7	[IVIITZ]			ANT1	ANT2	MIMO	[dBm]	[dB]	/ Ca [u.z.]	[]		[]
ا ا	5250	50	996T	15.53	15.71	18.63	23.98	-5.35	-0.96	17.67	22.39	-4.72
09 (5570	114	996T	15.61	15.24	18.44	23.47	-5.03	-0.75	17.69	28.80	-11.11
-	5815	163	996T	15.60	15.34	18.48			-0.75	17.73	36.00	-18.27

Table 7-40. MIMO 160MHz BW U (UNII) Maximum Conducted Output Power (996 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 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 17.45 dBm for Antenna 1 and 17.99 dBm for Antenna 2.

$$(17.45 \text{ dBm} + 17.99 \text{ dBm}) = (55.59 \text{ mW} + 62.95 \text{ mW}) = 118.54 \text{ mW} = 20.74 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average MIMO conducted power was calculated to be 20.74 dBm with directional gain of -1.98 dBi.

$$20.74 \text{ dBm} + -1.98 \text{ dBi} = 18.76 \text{ dBm}$$

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7.5 Maximum Power Spectral Density – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3)

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 – 5.25GHz band, the maximum permissible power spectral density is 11dBm/MHz. For ISED operation, the maximum e.i.r.p. spectral density is 10dBm/MHz.

In the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the maximum permissible power spectral density is 11 dBm/MHz.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

In the 5.850 – 5.855GHz band, the maximum permissible power spectral density is 14dBm/MHz e.i.r.p.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 789033 D02 v02r01 – Section F ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

- 1. Analyzer was set to the center frequency of the UNII channel under investigation
- 2. Span was set to encompass the entire emission bandwidth of the signal
- 3. RBW = 1MHz
- 4. VBW = 3MHz
- 5. Number of sweep points $\geq 2 \times (\text{span/RBW})$
- 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.

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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

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

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Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	8.12	7.71	10.93	11.00	-0.07
	5200	40	ax (20MHz)	26T	MCS0	8.04	7.77	10.92	11.00	-0.08
<u> </u>	5240	48	ax (20MHz)	26T	MCS0	8.01	7.53	10.79	11.00	-0.21
Band 1	5190	38	ax (40MHz)	26T	MCS0	7.30	6.96	10.14	11.00	-0.86
_	5230	46	ax (40MHz)	26T	MCS0	7.11	7.35	10.24	11.00	-0.76
	5210	42	ax (80MHz)	26T	MCS0	5.49	5.92	8.72	11.00	-2.28
Band 1/2A	5210	50	ax (160MHz L)	26T	MCS0	8.21	7.09	10.70	11.00	-0.30
Ba 1/7	5210	50	ax (160MHz U)	26T	MCS0	5.93	6.83	9.41	11.00	-1.59
	5260	52	ax (20MHz)	26T	MCS0	7.00	6.64	9.83	11.00	-1.17
4	5280	56	ax (20MHz)	26T	MCS0	7.72	7.46	10.60	11.00	-0.40
d 2A	5320	64	ax (20MHz)	26T	MCS0	7.68	7.20	10.45	11.00	-0.55
Band	5270	54	ax (40MHz)	26T	MCS0	6.83	7.24	10.05	11.00	-0.95
ш	5310	62	ax (40MHz)	26T	MCS0	6.44	7.26	9.88	11.00	-1.12
	5290	58	ax (80MHz)	26T	MCS0	6.63	7.67	10.19	11.00	-0.81
	5500	100	ax (20MHz)	26T	MCS0	8.04	7.85	10.95	11.00	-0.05
	5600	120	ax (20MHz)	26T	MCS0	8.12	7.61	10.88	11.00	-0.12
	5720	144	ax (20MHz)	26T	MCS0	7.84	7.84	10.85	11.00	-0.15
	5510	102	ax (40MHz)	26T	MCS0	6.94	7.39	10.18	11.00	-0.82
2C	5590	118	ax (40MHz)	26T	MCS0	7.17	7.26	10.22	11.00	-0.78
Band	5710	142	ax (40MHz)	26T	MCS0	6.65	7.55	10.14	11.00	-0.86
Ba	5530	106	ax (80MHz)	26T	MCS0	6.52	8.30	10.51	11.00	-0.49
	5610	122	ax (80MHz)	26T	MCS0	6.60	7.92	10.32	11.00	-0.68
	5690	138	ax (80MHz)	26T	MCS0	5.93	7.95	10.07	11.00	-0.93
	5570	114	ax (160MHz L)	26T	MCS0	8.65	6.77	10.82	11.00	-0.18
	5570	114	ax (160MHz U)	26T	MCS0	6.46	6.16	9.32	11.00	-1.68

Table 7-41. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	5.08	5.23	8.16	30.00	-21.84
က	5785	157	ax (20MHz)	26T	MCS0	5.19	5.01	8.11	30.00	-21.89
	5825	165	ax (20MHz)	26T	MCS0	5.50	5.15	8.34	30.00	-21.66
Band	5755	151	ax (40MHz)	26T	MCS0	4.34	4.67	7.52	30.00	-22.48
	5795	159	ax (40MHz)	26T	MCS0	4.80	4.82	7.82	30.00	-22.18
	5775	155	ax (80MHz)	26T	MCS0	3.45	4.15	6.82	30.00	-23.18

Table 7-42. Band 3 Conducted Power Spectral Density Measurements MIMO (26 Tones)

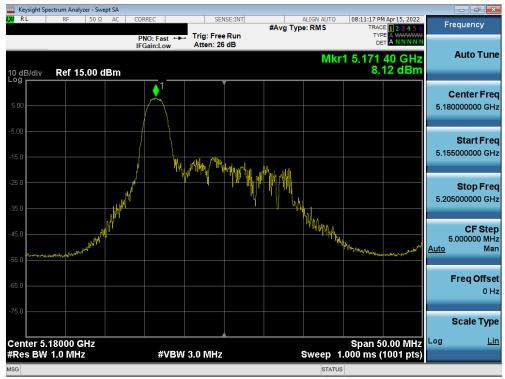
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	26T	MCS0	7.03	6.72	9.89	30.00	-20.11	-0.75	9.14	14.00	-4.86
Band 4	5865	173	ax (20MHz)	26T	MCS0	6.93	6.40	9.69			-0.75	8.94	14.00	-5.06
Band 4	5885	177	ax (20MHz)	26T	MCS0	7.82	8.05	10.94			-0.75	10.19	14.00	-3.81
Band 3/4	5835	167	ax (40MHz)	26T	MCS0	7.54	7.86	10.71	30.00	-19.29	-0.75	9.96	14.00	-4.04
Band 4	5875	175	ax (40MHz)	26T	MCS0	7.50	7.74	10.63			-0.75	9.88	14.00	-3.70
	5855	171	ax (80MHz)	26T	MCS0	7.82	8.24	11.05	30.00	-18.95	-0.75	10.30	14.00	-3.99
Band 3/4	5815	163	ax (160MHz L)	26T	MCS0	8.11	7.37	10.76	30.00	-19.24	-0.75	10.01	14.00	-3.99
	5815	163	ax (160MHz U)	26T	MCS0	6.84	6.19	9.54	30.00	-20.46	-0.75	8.79	14.00	-5.21

Table 7-43. Band 4 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

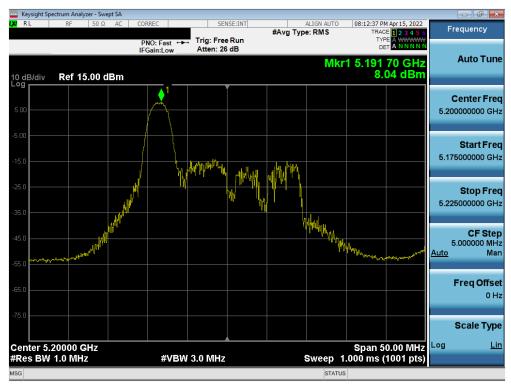
FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)				
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Plot 7-149. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



Plot 7-150. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

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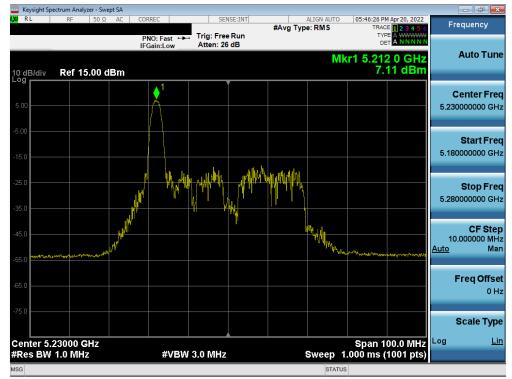
Plot 7-151. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



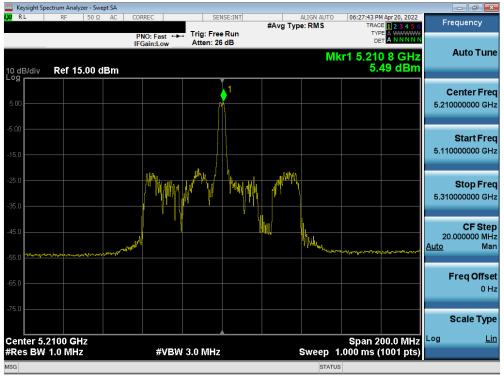
Plot 7-152. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

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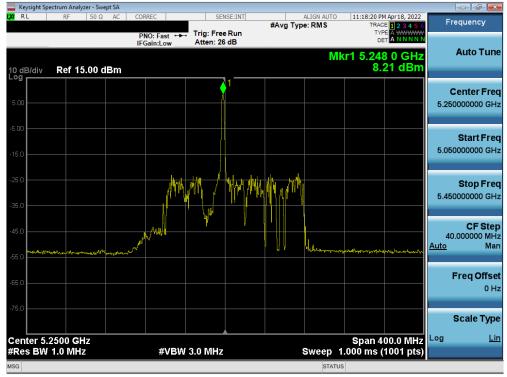
Plot 7-153. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



Plot 7-154. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

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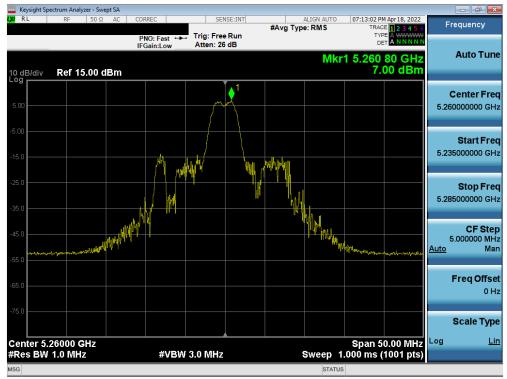
Plot 7-155. Power Spectral Density Plot MIMO ANT1 (160MHz (L) BW 802.11ax - 26 Tones (UNII Band 1/2A) - Ch. 50)



Plot 7-156. Power Spectral Density Plot MIMO ANT1 (160MHz (U) BW 802.11ax - 26 Tones (UNII Band 1/2A) - Ch. 50)

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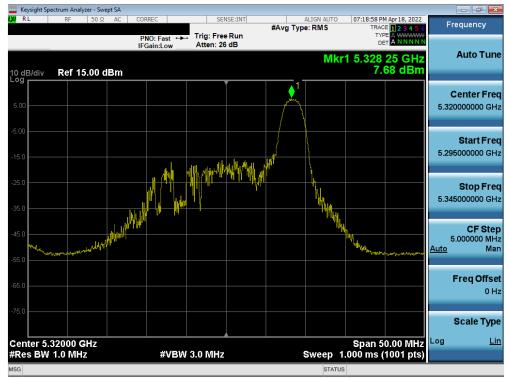
Plot 7-157. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-158. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

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Plot 7-159. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



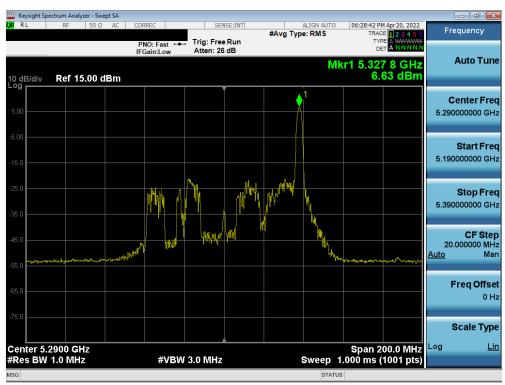
Plot 7-160. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

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Plot 7-161. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



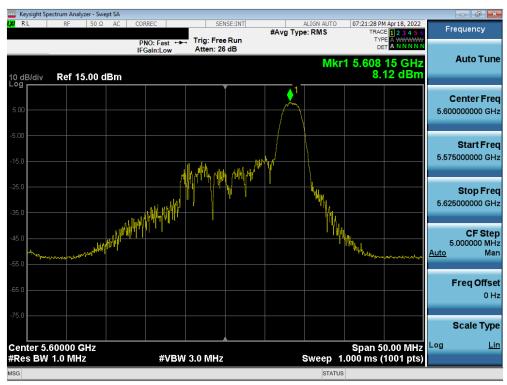
Plot 7-162. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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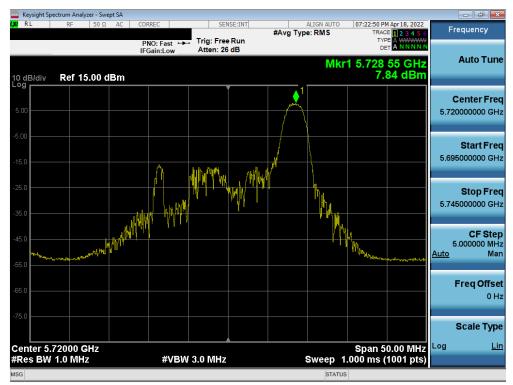
Plot 7-163. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-164. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

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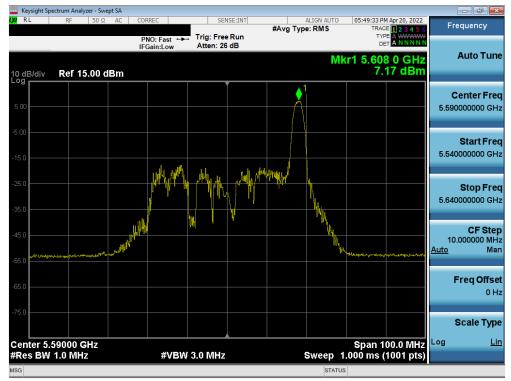
Plot 7-165. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



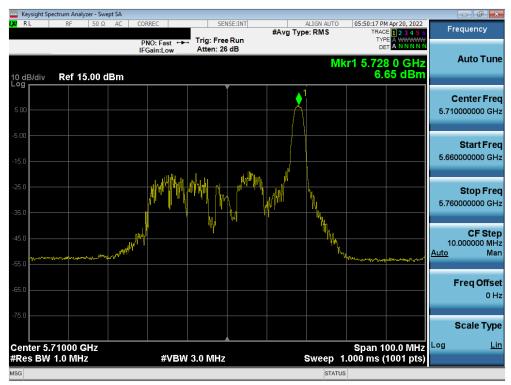
Plot 7-166. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-167. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



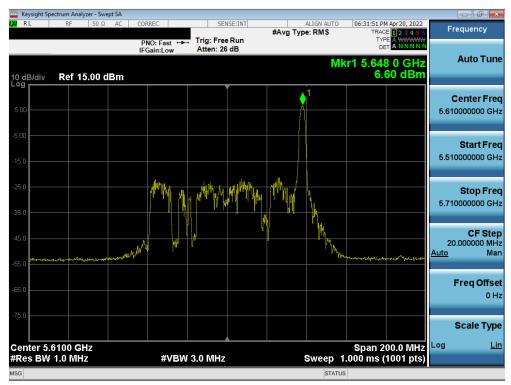
Plot 7-168. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

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Plot 7-169. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



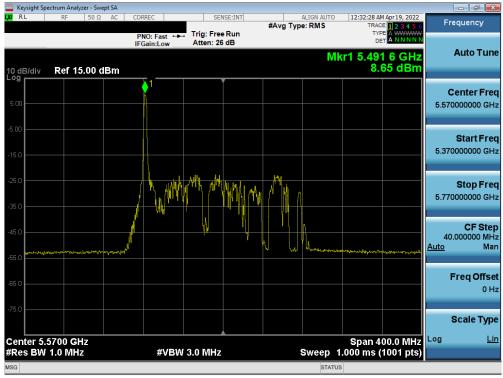
Plot 7-170. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-171. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)



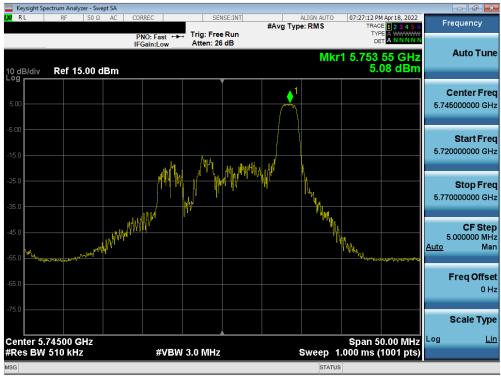
Plot 7-172. Power Spectral Density Plot MIMO ANT1 (160MHz (L) BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 114)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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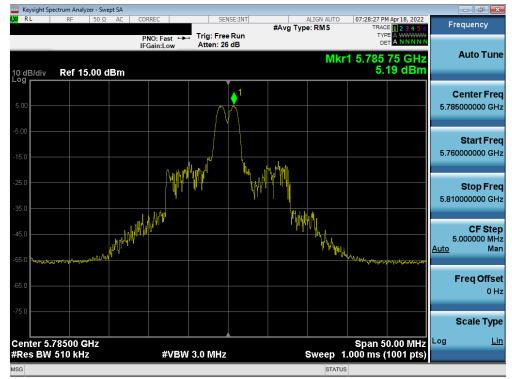
Plot 7-173. Power Spectral Density Plot MIMO ANT1 (160MHz (U) BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 114)



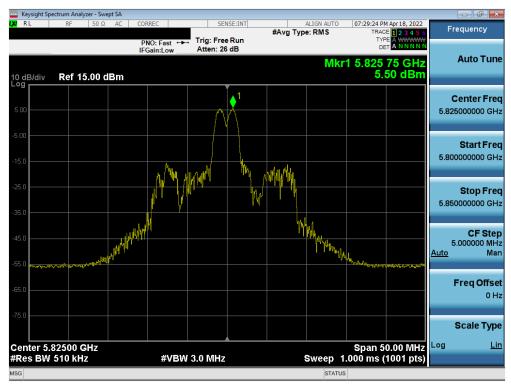
Plot 7-174. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)

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Plot 7-175. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)



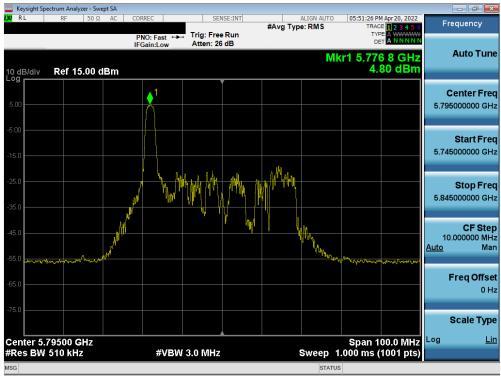
Plot 7-176. Power Spectral Density Plot MIMO ANT1 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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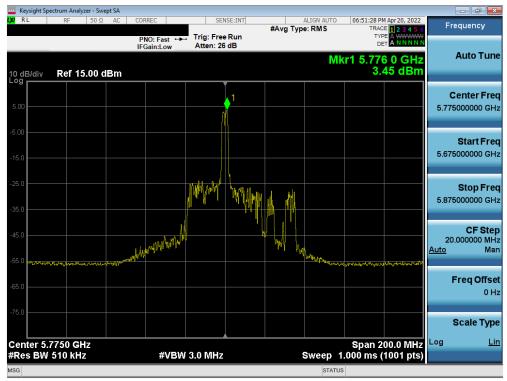
Plot 7-177. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)



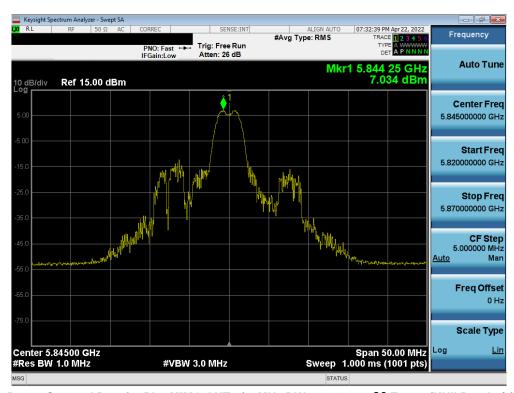
Plot 7-178. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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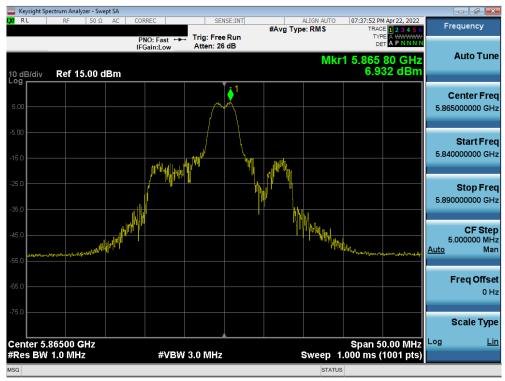
Plot 7-179. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)



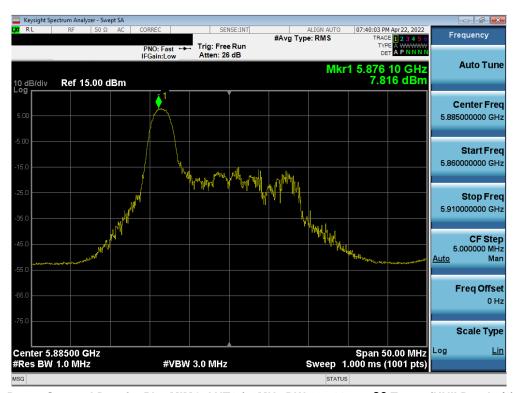
Plot 7-180. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 169)

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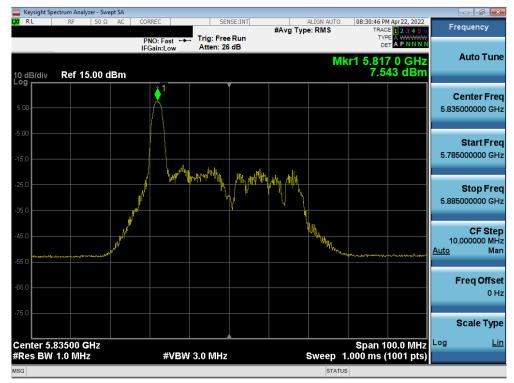
Plot 7-181. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 173)



Plot 7-182. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 177)

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Plot 7-183. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 167)



Plot 7-184. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 175)

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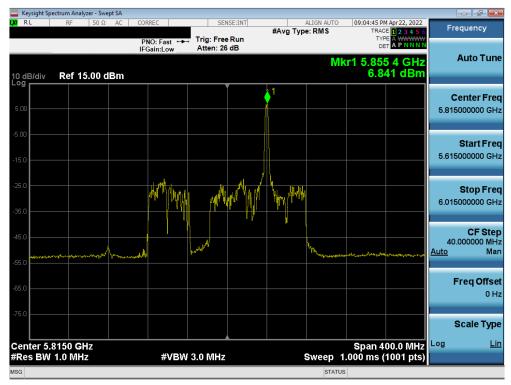
Plot 7-185. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 171)



Plot 7-186. Power Spectral Density Plot MIMO ANT1 (160MHz BW (L) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)

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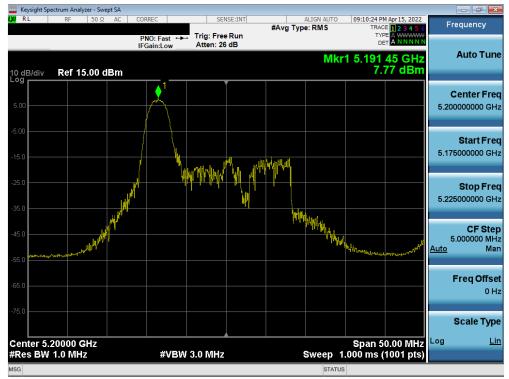
Plot 7-187. Power Spectral Density Plot MIMO ANT1 (160MHz BW (U) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)



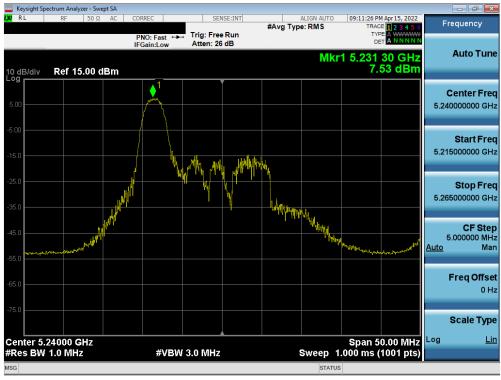
Plot 7-188. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)

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Plot 7-189. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)



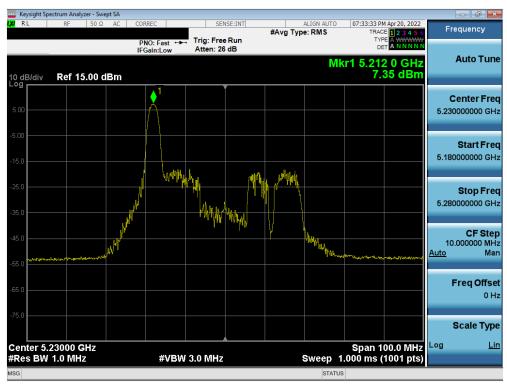
Plot 7-190. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)

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Plot 7-191. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)



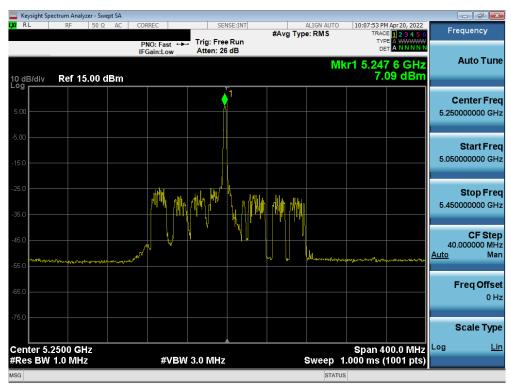
Plot 7-192. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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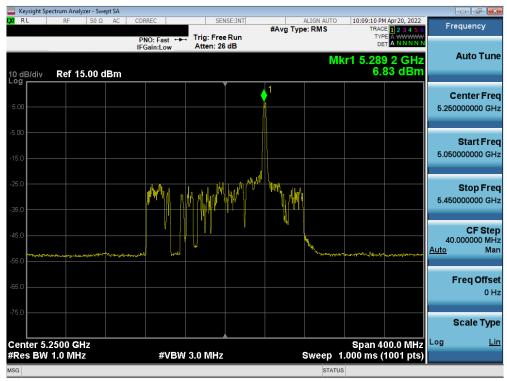
Plot 7-193. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)



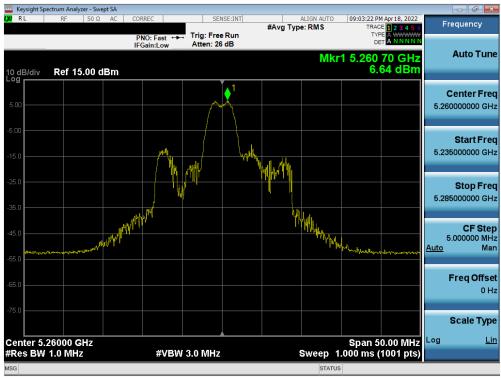
Plot 7-194. Power Spectral Density Plot MIMO ANT2 (160MHz (L) BW 802.11ax - 26 Tones (UNII Band 1/2A) - Ch. 50)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-195. Power Spectral Density Plot MIMO ANT2 (160MHz (U) BW 802.11ax - 26 Tones (UNII Band 1/2A) - Ch. 50)



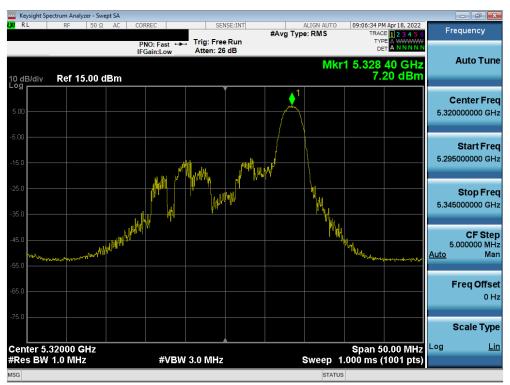
Plot 7-196. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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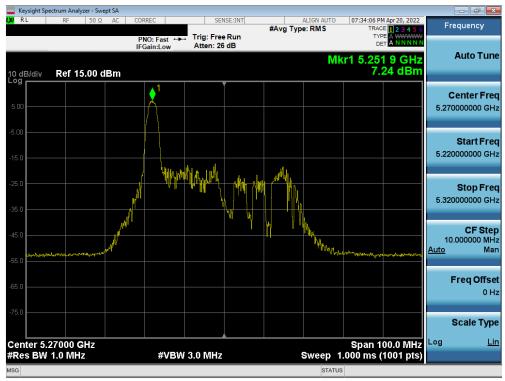
Plot 7-197. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)



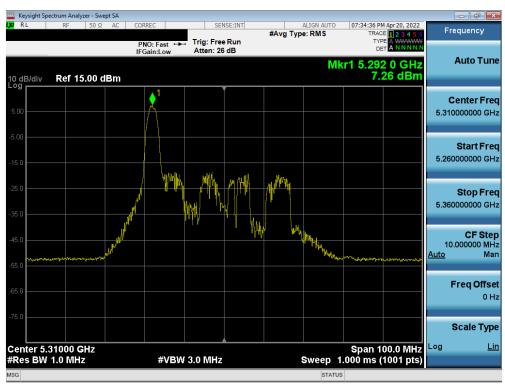
Plot 7-198. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)

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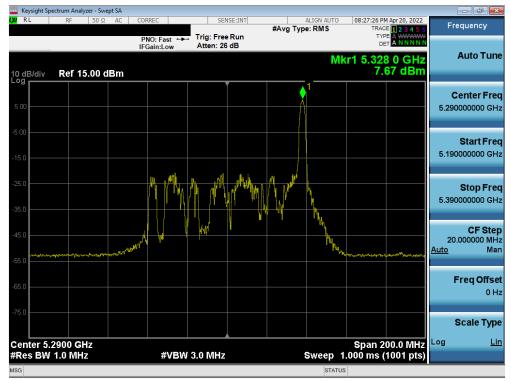
Plot 7-199. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)



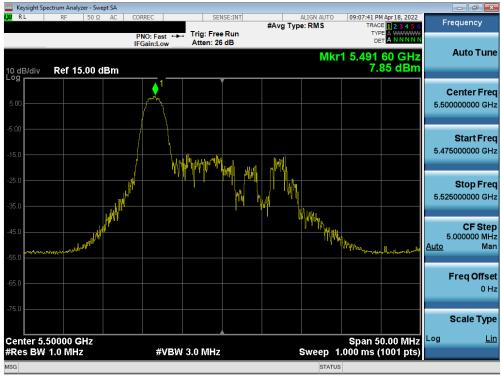
Plot 7-200. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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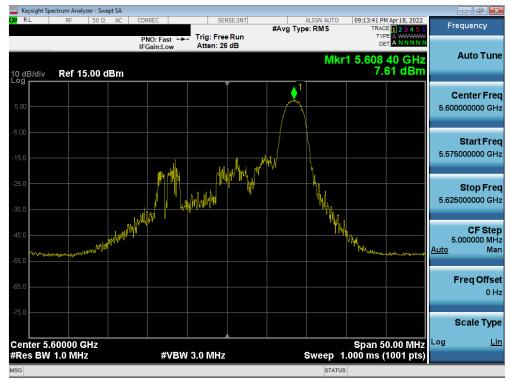
Plot 7-201. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)



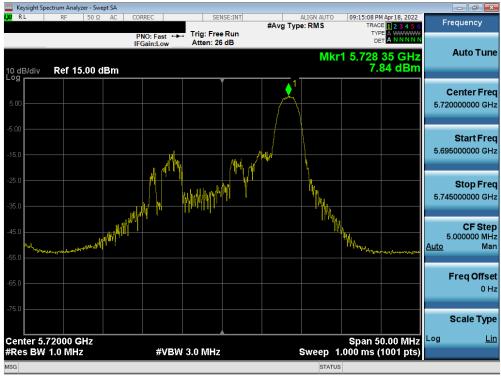
Plot 7-202. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-203. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)



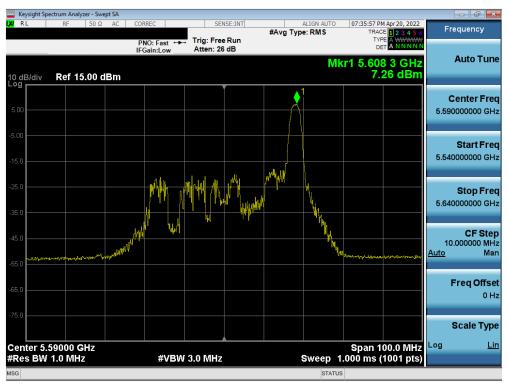
Plot 7-204. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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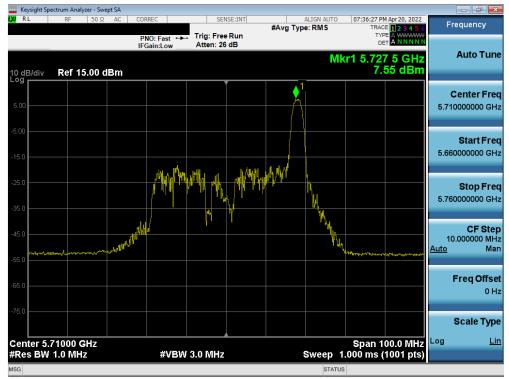
Plot 7-205. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)



Plot 7-206. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)

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Plot 7-207. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)



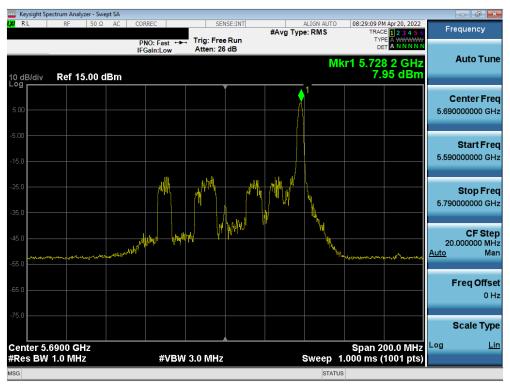
Plot 7-208. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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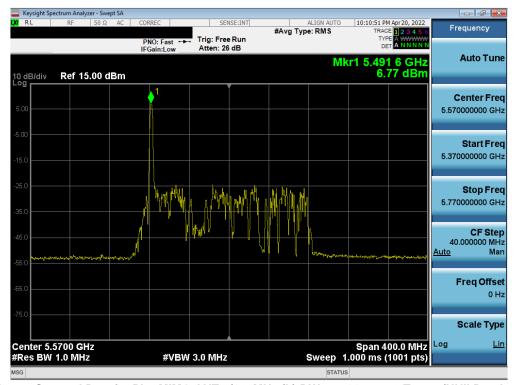
Plot 7-209. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)



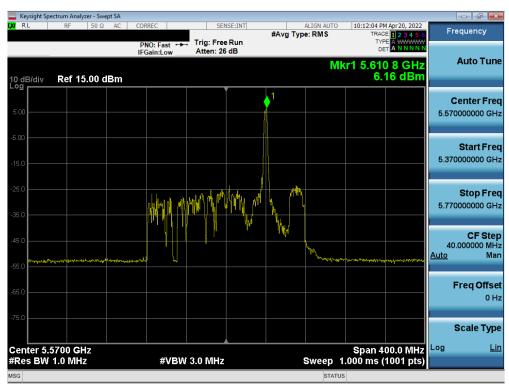
Plot 7-210. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF936JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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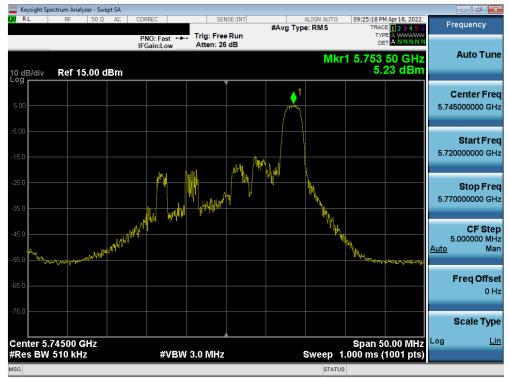
Plot 7-211. Power Spectral Density Plot MIMO ANT2 (160MHz (L) BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 114)



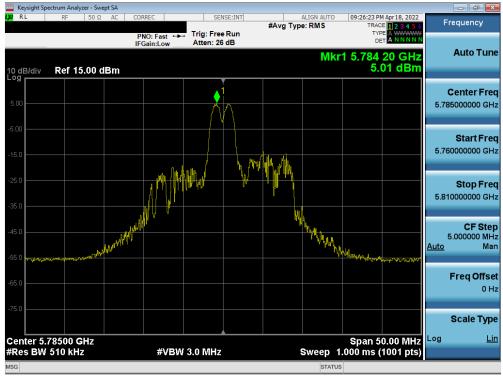
Plot 7-212. Power Spectral Density Plot MIMO ANT2 (160MHz (U) BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 114)

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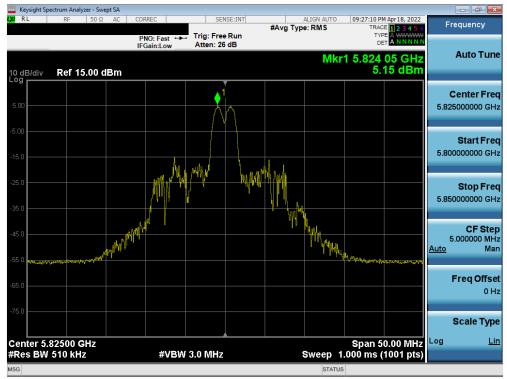
Plot 7-213. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-214. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

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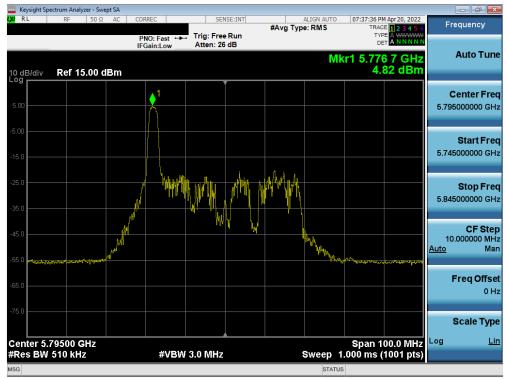
Plot 7-215. Power Spectral Density Plot MIMO ANT2 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



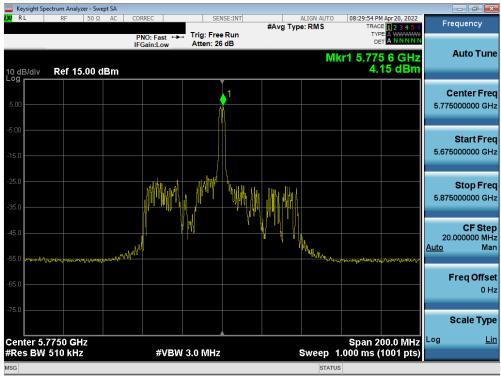
Plot 7-216. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

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Plot 7-217. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



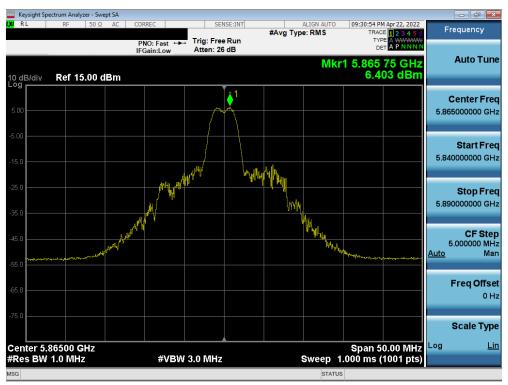
Plot 7-218. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)			
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Plot 7-219. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 169)



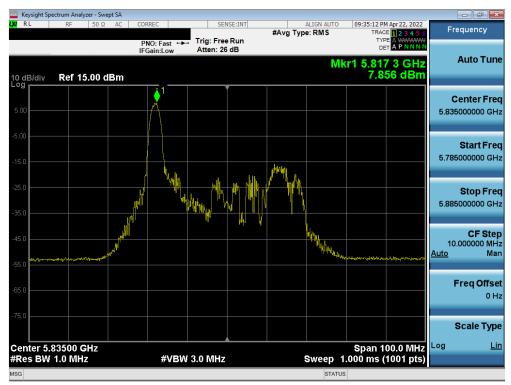
Plot 7-220. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 173)

FCC ID: A3LSMF936JPN		MEASUREMENT REPORT (CERTIFICATION)			
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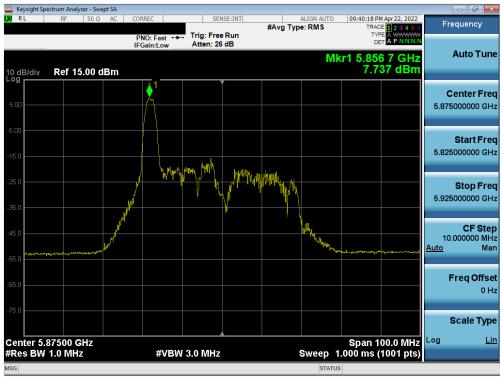
Plot 7-221. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 177)



Plot 7-222. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 167)

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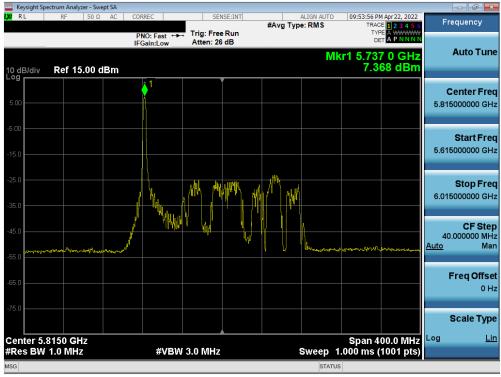
Plot 7-223. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 4) - Ch. 175)



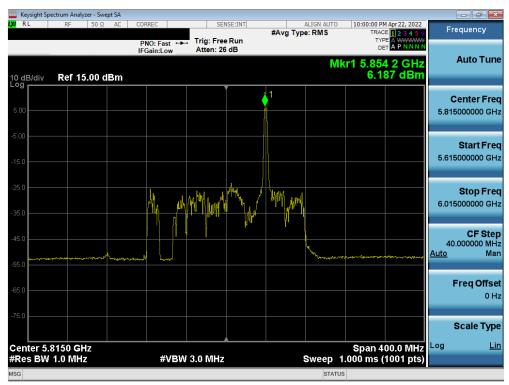
Plot 7-224. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 171)

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Plot 7-225. Power Spectral Density Plot MIMO ANT2 (160MHz BW (L) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)



Plot 7-226. Power Spectral Density Plot MIMO ANT2 (160MHz BW (U) 802.11ax - 26 Tones (UNII Band 3/4) - Ch. 163)

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MIMO Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	6.01	6.08	9.06	11.00	-1.94
	5200	40	ax (20MHz)	242T	MCS0	5.97	6.17	9.08	11.00	-1.92
Band 1	5240	48	ax (20MHz)	242T	MCS0	5.66	5.86	8.77	11.00	-2.23
Bar	5190	38	ax (40MHz)	484T	MCS0	1.89	1.89	4.90	11.00	-6.10
	5230	46	ax (40MHz)	484T	MCS0	2.06	1.96	5.02	11.00	-5.98
	5210	42	ax (80MHz)	996T	MCS0	-1.69	-1.79	1.27	11.00	-9.73
Band 1/2A	5250	50	ax (160MHz L)	996T	MCS0	-1.97	-2.02	1.02	11.00	-9.98
Ba 1//	5250	50	ax (160MHz U)	996T	MCS0	-2.58	-2.62	0.41	11.00	-10.59
	5260	52	ax (20MHz)	242T	MCS0	5.45	6.05	8.77	11.00	-2.23
	5280	56	ax (20MHz)	242T	MCS0	5.32	5.33	8.33	11.00	-2.67
Band 2A	5320	64	ax (20MHz)	242T	MCS0	5.73	6.11	8.93	11.00	-2.07
Ban	5270	54	ax (40MHz)	484T	MCS0	1.68	2.24	4.98	11.00	-6.02
	5310	62	ax (40MHz)	484T	MCS0	1.72	1.84	4.79	11.00	-6.21
	5290	58	ax (80MHz)	996T	MCS0	-2.24	-1.87	0.96	11.00	-10.04
	5500	100	ax (20MHz)	242T	MCS0	5.72	5.84	8.79	11.00	-2.21
	5600	120	ax (20MHz)	242T	MCS0	6.01	6.06	9.05	11.00	-1.95
	5720	144	ax (20MHz)	242T	MCS0	5.97	6.11	9.05	11.00	-1.95
	5510	102	ax (40MHz)	484T	MCS0	1.85	1.74	4.81	11.00	-6.19
ပ္သ	5590	118	ax (40MHz)	484T	MCS0	2.42	2.10	5.27	11.00	-5.73
Band 2C	5710	142	ax (40MHz)	484T	MCS0	1.98	2.05	5.03	11.00	-5.97
ä	5530	106	ax (80MHz)	996T	MCS0	-1.98	-1.96	1.04	11.00	-9.96
	5610	122	ax (80MHz)	996T	MCS0	-2.02	-1.94	1.03	11.00	-9.97
	5690	138	ax (80MHz)	996T	MCS0	-2.16	-2.18	0.84	11.00	-10.16
	5570	114	ax (160MHz L)	26T	MCS0	-1.97	-2.56	0.76	11.00	-10.24
	5570	114	ax (160MHz U)	26T	MCS0	-2.40	-1.95	0.84	11.00	-10.16

Table 7-44. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	2.90	3.38	6.16	30.00	-23.84
	5785	157	ax (20MHz)	242T	MCS0	2.98	3.37	6.19	30.00	-23.81
5 pd	5825	165	ax (20MHz)	242T	MCS0	3.26	3.56	6.42	30.00	-23.58
Band	5755	151	ax (40MHz)	484T	MCS0	-0.81	-0.75	2.23	30.00	-27.77
	5795	159	ax (40MHz)	484T	MCS0	-0.96	-0.71	2.18	30.00	-27.82
	5775	155	ax (80MHz)	996T	MCS0	-2.17	-4.85	-0.30	30.00	-30.30

Table 7-45. Band 3 Conducted Power Spectral Density Measurements MIMO (Full Tones)

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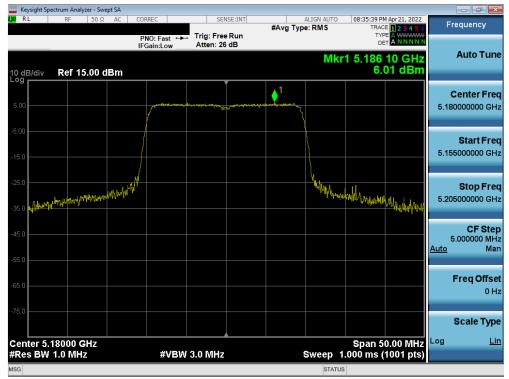


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm/MHz]	Antenna-2 Power Density [dBm/MHz]	MIMO Summed Power Density [dBm/MHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Directional Antenna Gain [dBi]	EIRP Power Density [dBm/MHz]	Max EIRP Power Density [dBm/MHz]	Margin [dB]
Band 3/4	5845	169	ax (20MHz)	242T	MCS0	6.05	6.62	9.36	30.00	-20.64	-0.75	8.61	14.00	-5.39
Band 4	5865	173	ax (20MHz)	242T	MCS0	6.37	6.41	9.40			-0.75	8.65	14.00	-5.35
Dallu 4	5885	177	ax (20MHz)	242T	MCS0	5.72	6.41	9.09			-0.75	8.34	14.00	-5.66
Band 3/4	5835	167	ax (40MHz)	484T	MCS0	1.98	2.20	5.11	30.00	-24.89	-0.75	4.36	14.00	-9.64
Band 4	5875	175	ax (40MHz)	484T	MCS0	2.27	2.11	5.20			-0.75	4.45	14.00	-9.55
	5855	171	ax (80MHz)	996T	MCS0	-2.04	-2.27	0.85	30.00	-29.15	-0.75	0.11	14.00	-13.89
Band 3/4	5815	163	ax (160MHz L)	996T	MCS0	-2.11	-2.65	0.64	30.00	-29.36	-0.75	-0.11	14.00	-14.11
	5815	163	ax (160MHz U)	996T	MCS0	-2.34	-2.56	0.56	30.00	-29.44	-0.75	-0.19	14.00	-14.19

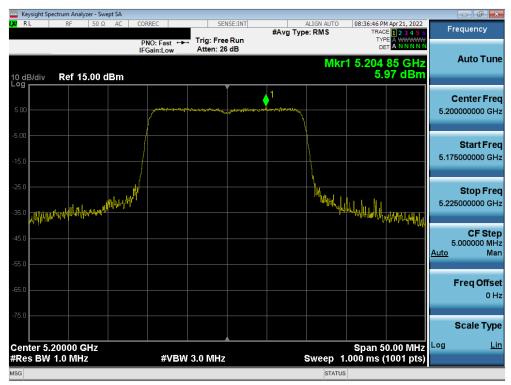
Table 7-46. Band 4 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

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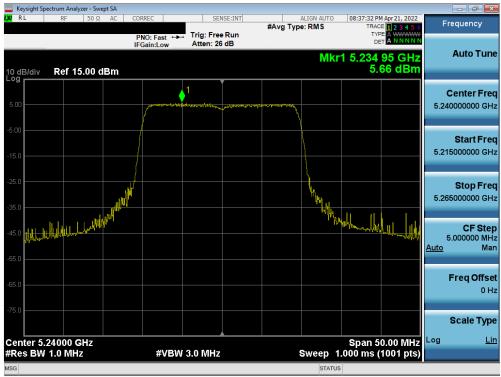
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



Plot 7-228. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

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Plot 7-229. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



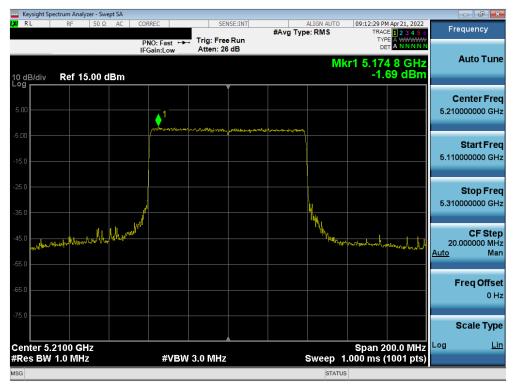
Plot 7-230. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

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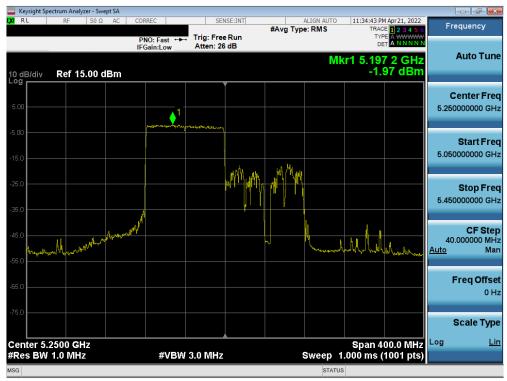
Plot 7-231. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



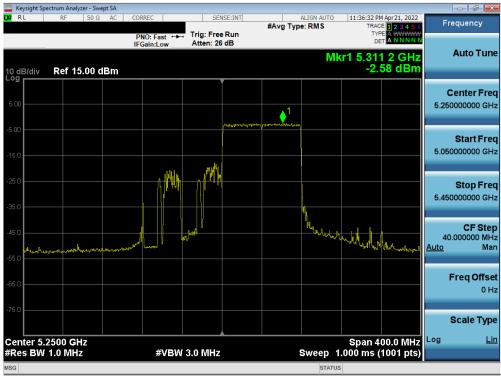
Plot 7-232. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

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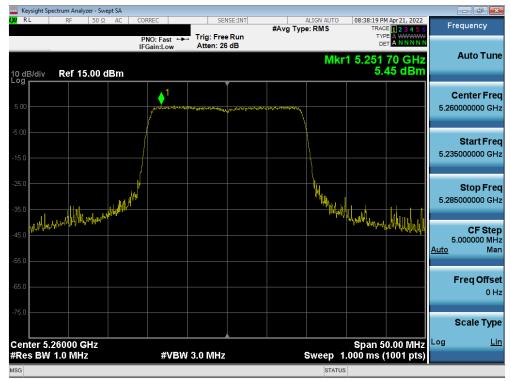
Plot 7-233. Power Spectral Density Plot MIMO ANT1 (160MHz (L) BW 802.11ax - Full Tones (UNII Band 1/2A) - Ch. 50)



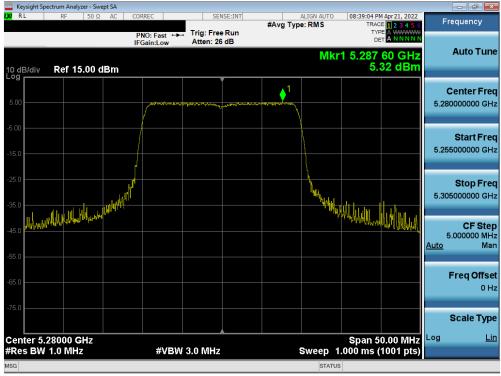
Plot 7-234. Power Spectral Density Plot MIMO ANT1 (160MHz (U) BW 802.11ax - Full Tones (UNII Band 1/2A) - Ch. 50)

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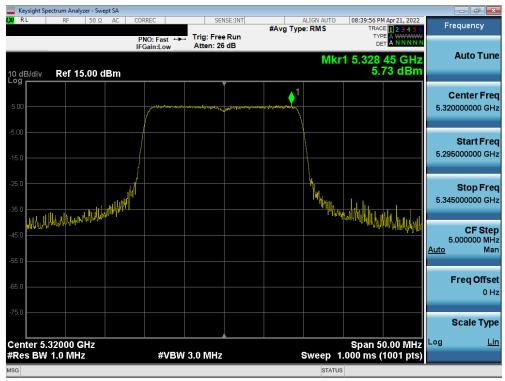
Plot 7-235. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



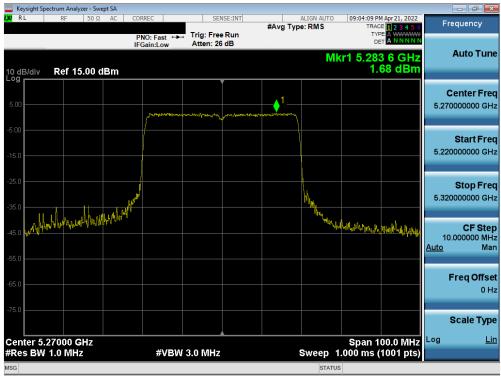
Plot 7-236. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

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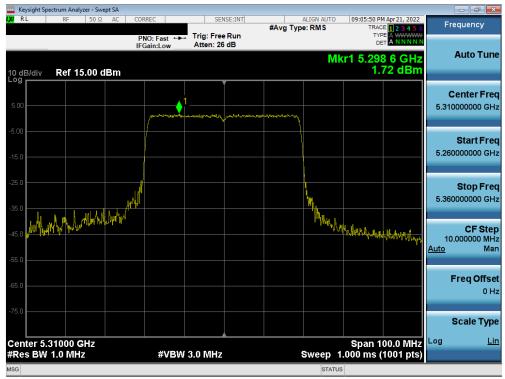
Plot 7-237. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



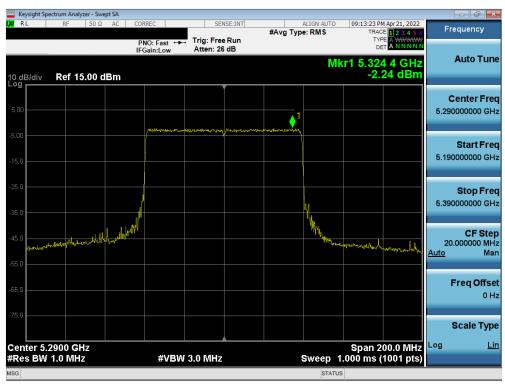
Plot 7-238. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

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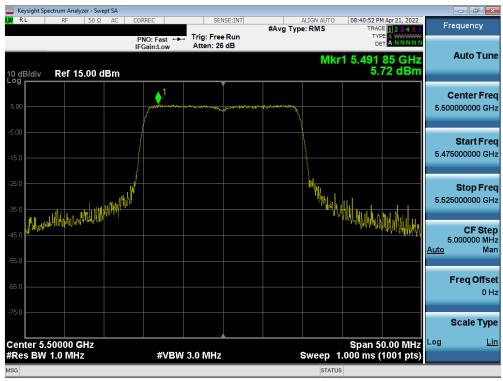
Plot 7-239. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



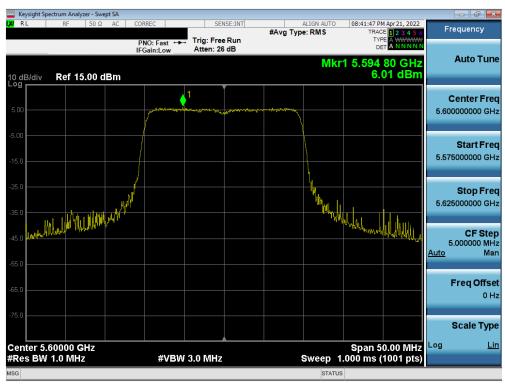
Plot 7-240. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

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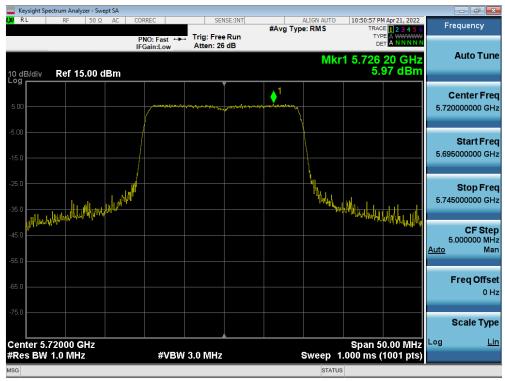
Plot 7-241. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



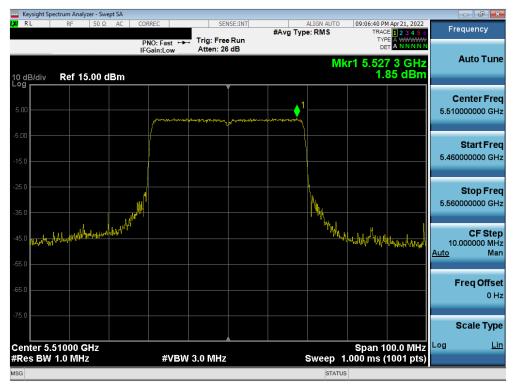
Plot 7-242. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

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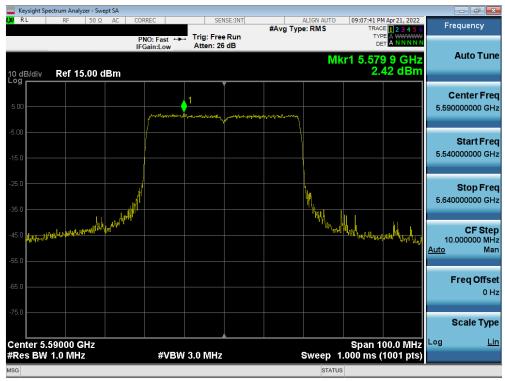
Plot 7-243. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



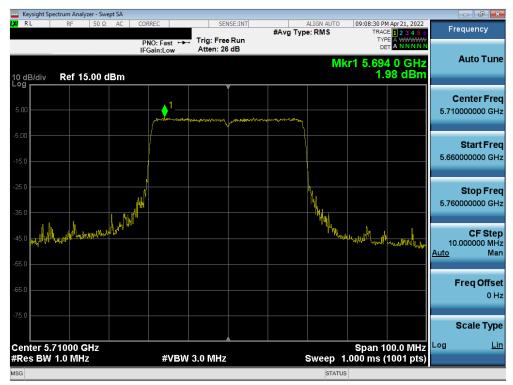
Plot 7-244. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

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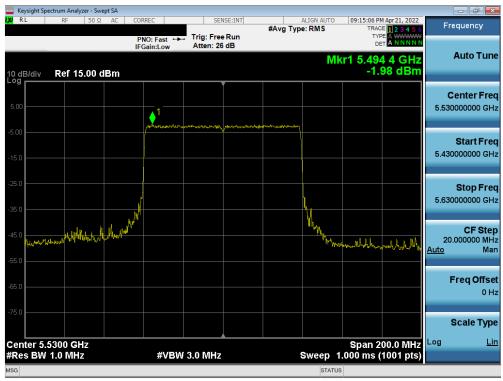
Plot 7-245. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



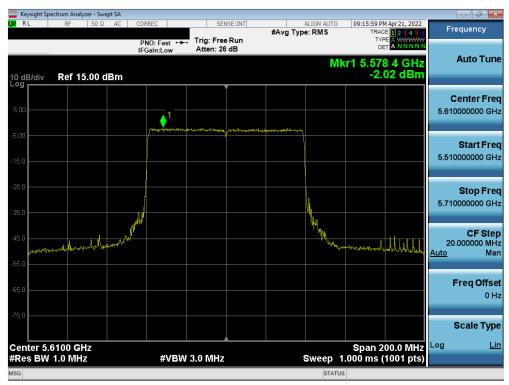
Plot 7-246. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

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Plot 7-247. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



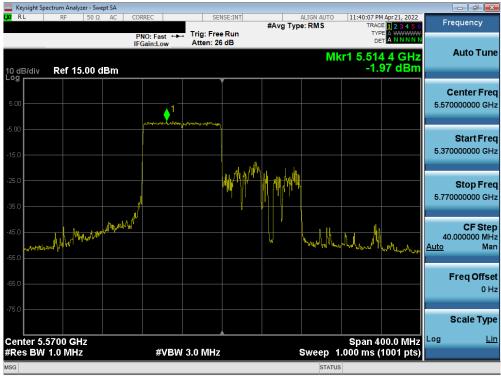
Plot 7-248. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

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Plot 7-249. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)



Plot 7-250. Power Spectral Density Plot MIMO ANT1 (160MHz (L) BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 114)

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