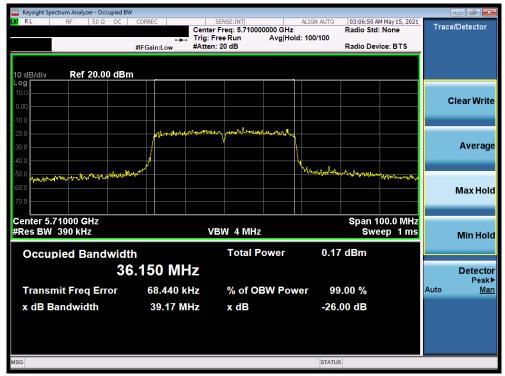


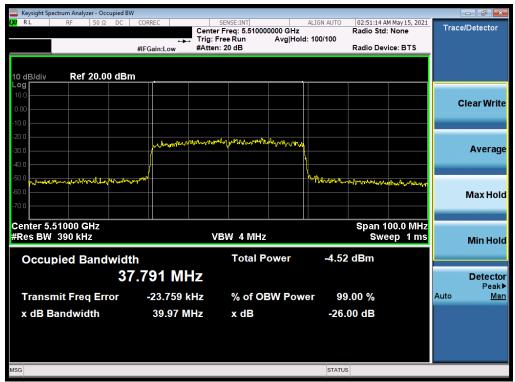
Plot 7-92. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



Plot 7-93. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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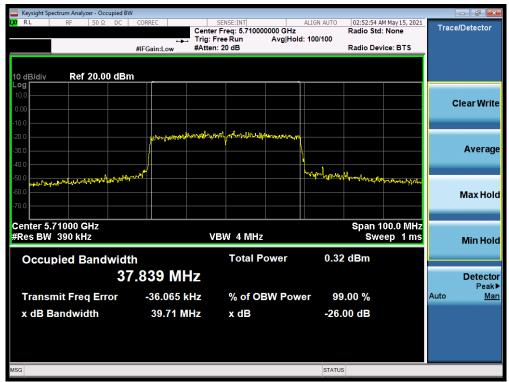
Plot 7-94. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



Plot 7-95. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-96. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



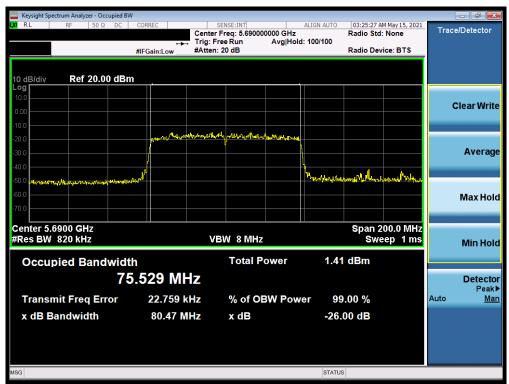
Plot 7-97. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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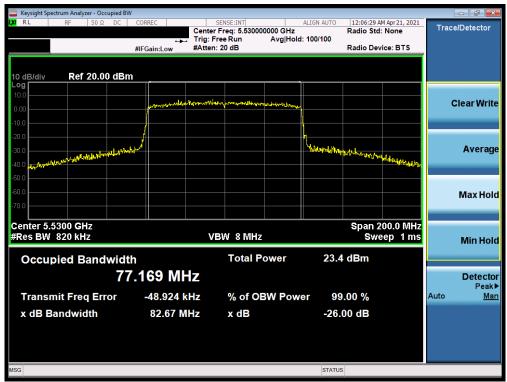
Plot 7-98. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



Plot 7-99. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-100. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-101. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION) SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 69 of 269
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Plot 7-102. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.3 6dB Bandwidth Measurement – 802.11an/ac/ax §15.407 (e); RSS-Gen [6.2]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal 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. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 - 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2 KDB 789033 D02 v02r01 – Section C

Test Settings

- 1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. $VBW \ge 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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SISO Antenna-1 6 dB Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	а	6	15.65
	5785	157	а	6	15.75
	5825	165	а	6	15.36
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.57
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.57
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.21
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	17.56
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.94
m	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.34
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.36
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.97
	5755	151	ax (40MHz)	13.5/15 (MCS0)	36.55
	5795	159	ax (40MHz)	13.5/15 (MCS0)	38.01
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	72.97
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	77.01

Table 7-4. Conducted Bandwidth Measurements SISO ANT1



Plot 7-103. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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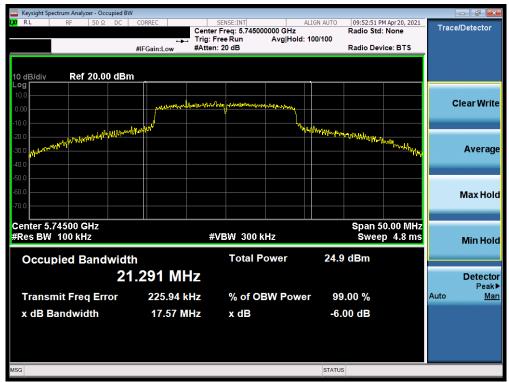
Plot 7-104. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)



Plot 7-105. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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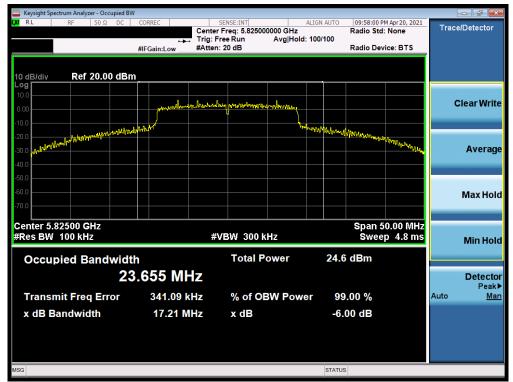
Plot 7-106. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



Plot 7-107. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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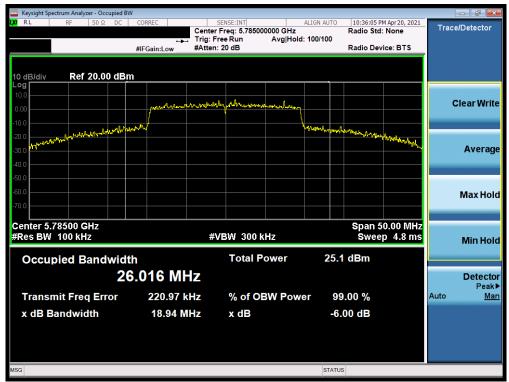
Plot 7-108. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



Plot 7-109. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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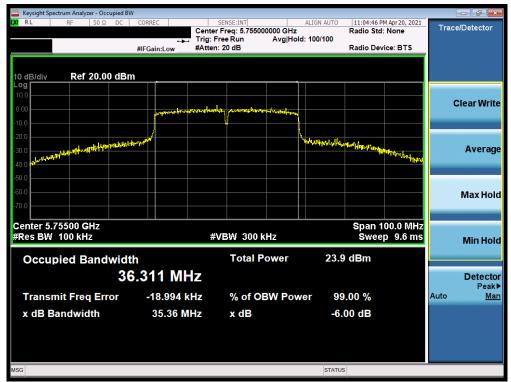
Plot 7-110. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



Plot 7-111. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-112. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-113. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-114. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



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

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-116. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-117. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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MIMO 6 dB Bandwidth Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	MIMO 6dB Bandwidth - Q [MHz]
	5745	149	а	6	16.35
	5785	157	а	6	16.02
	5825	165	а	6	16.09
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	15.20
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	15.34
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	16.96
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	18.94
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	17.94
Ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.92
	5755	151	n (40MHz)	13.5/15 (MCS0)	33.95
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.20
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.23
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.71
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.21
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.34

Table 7-5. Conducted Bandwidth Measurements MIMO



Plot 7-118. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-119. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 157)



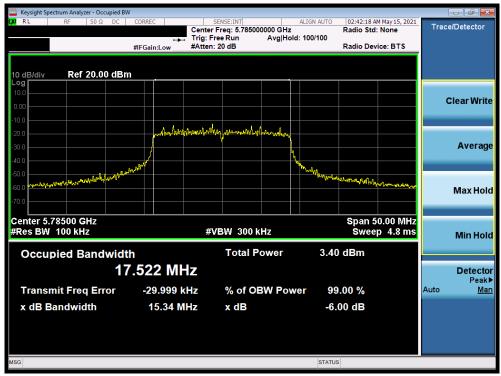
Plot 7-120. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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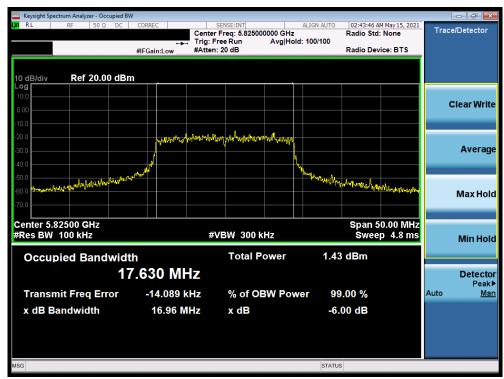
Plot 7-121. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 149)



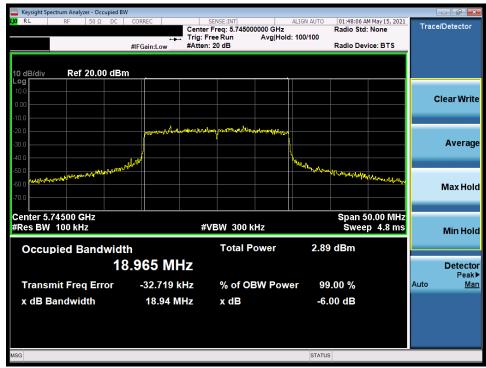
Plot 7-122. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-123. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 165)



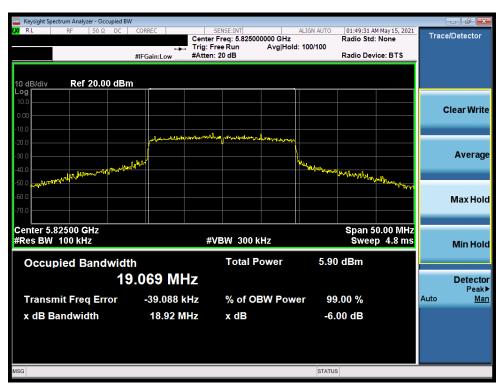
Plot 7-124. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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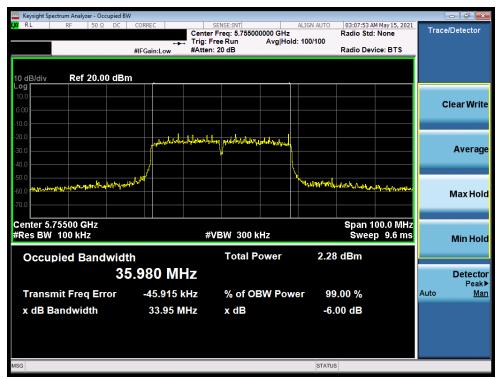
Plot 7-125. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 157)



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

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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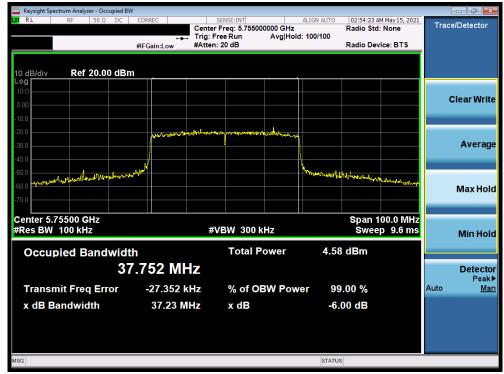
Plot 7-127. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 151)



Plot 7-128. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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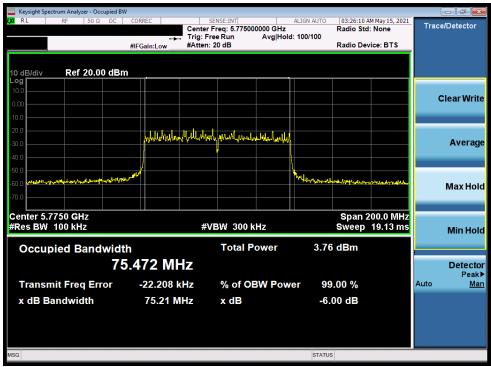
Plot 7-129. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-130. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-131. 6dB Bandwidth Plot MIMO (80MHz 802.11ac (UNII Band 3) - Ch. 155)



Plot 7 264. 6dB Bandwidth Plot MIMO (80MHz 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711U1	PCC ID: A3LSMF711U1		SAMSUNG	Approved by: Technical Manager
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7.4 UNII Output Power Measurement – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

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 + $10\log_{10}(26dB\ BW) = 11\ dBm + 10\log_{10}(18.82) = 23.75dBm$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(26dB \text{ BW}) = 11 \text{ dBm} + 10\log_{10}(18.61) = 23.70dBm$. 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.

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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Test Notes

1. Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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SISO Antenna-1 Conducted Output Power Measurements

	Freq [MHz]	Channel	Detector		IEEE Transm	nission Mode			Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
=				802.11a	802.11n	802.11ac	802.11ax	[dBm]	[dB]	[42.]	[45]		[42]
	5180	36	AVG	15.85	15.11	15.48	15.36	23.98	-8.13	-6.60	9.25	23.01	-13.76
	5200	40	AVG	17.59	17.62	17.72	17.64	23.98	-6.26	-6.60	11.12	23.01	-11.89
	5220	44	AVG	17.58	17.66	17.66	17.60	23.98	-6.32	-6.60	11.06	23.01	-11.95
	5240	48	AVG	17.52	17.48	17.52	17.42	23.98	-6.46	-6.60	10.92	23.01	-12.09
	5260	52	AVG	17.65	17.52	17.54	17.45	23.98	-6.33	-8.10	9.55	30.00	-20.45
	5280	56	AVG	17.65	17.50	17.54	17.50	23.98	-6.33	-8.10	9.55	30.00	-20.45
	5300	60	AVG	17.80	17.65	17.78	17.66	23.98	-6.18	-8.10	9.70	30.00	-20.30
	5320	64	AVG	17.54	16.62	16.95	16.94	23.98	-6.44	-8.10	9.44	30.00	-20.56
	5500	100	AVG	17.62	16.86	16.97	16.92	23.98	-6.36	-9.80	7.82	30.00	-22.18
	5600	120	AVG	17.80	17.69	17.52	17.57	23.98	-6.18	-9.80	8.00	-	-
	5620	124	AVG	17.62	17.69	17.64	17.55	23.98	-6.29	-9.80	7.89	-	-
	5720	144	AVG	17.72	17.59	17.60	17.57	23.98	-6.26	-9.80	7.92	30.00	-22.08
	5745	149	AVG	17.71	17.51	17.58	17.55	30.00	-12.29	-7.70	10.01	-	-
	5785	157	AVG	17.84	17.67	17.80	17.63	30.00	-12.16	-7.70	10.14	-	-
	5825	165	AVG	17.58	17.47	17.44	17.95	30.00	-12.42	-7.70	9.88	-	-

Table 7-6. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	IEEE Transmission Mode					Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				802.11n	802.11ac	802.11ax	[dBm]	[dB]	[uzi]	[ubiii]	Liniit [abin]	
N C	5190	38	AVG	13.68	13.03	13.78	23.98	-10.30	-6.60	7.08	23.01	-15.93
투 등	5230	46	AVG	16.89	16.80	16.80	23.98	-7.09	-6.60	10.29	23.01	-12.72
(40M) widt	5270	54	AVG	16.96	16.93	16.95	23.98	-7.02	-8.10	8.86	30.00	-21.14
4) ×	5310	62	AVG	14.99	14.60	14.76	23.98	-8.99	-8.10	6.89	30.00	-23.11
Hz	5510	102	AVG	15.44	15.43	15.37	23.98	-8.54	-9.80	5.64	30.00	-24.36
G Ba	5590	118	AVG	16.53	16.46	16.95	23.98	-7.45	-9.80	6.73	-	-
50 E	5630	126	AVG	16.66	16.65	16.47	23.98	-7.32	-9.80	6.86	-	-
	5710	142	AVG	16.88	16.62	16.73	23.98	-7.10	-9.80	7.08	30.00	-22.92
	5755	151	AVG	16.70	16.63	16.63	30.00	-13.30	-7.70	9.00	-	-
	5795	159	AVG	16.56	16.64	16.50	30.00	-13.36	-7.70	8.94	-	-

Table 7-7. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power

4z	Freq [MHz]	Channel	Detector	IEEE Transmission Mode			Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]	
₹ ₹				802.11ac	802.11ax	[dBm]	[dB]		[]		[]	
(80MHz Iwidth)	5210	42	AVG	12.15	12.47	23.98	-11.83	-6.60	5.55	23.01	-17.46	
z (bu	5290	58	AVG	12.98	12.67	23.98	-11.00	-8.10	4.88	30.00	-25.12	
5GHz Banc	5530	106	AVG	14.97	14.82	23.98	-9.01	-9.80	5.17	30.00	-24.83	
, Ž	5690	138	AVG	15.42	15.39	23.98	-8.56	-9.80	5.62	30.00	-24.38	
	5775	155	AVG	15.79	15.72	30.00	-14.21	-7.70	8.09	-	-	

Table 7-8. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 90 of 269
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		1	.,



MIMO Maximum Conducted Output Power Measurements

	Freq [MHz] Channel Dete		Detector	Conc	lucted Power [dBm]		Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u> </u>				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[]		[42]
主	5180	36	AVG	15.85	15.67	18.77	23.98	-5.21	-3.34	15.43	23.01	-7.58
÷	5200	40	AVG	17.59	17.66	20.64	23.98	-3.34	-3.34	17.30	23.01	-5.71
andwidth)	5220	44	AVG	17.58	17.88	20.74	23.98	-3.24	-3.34	17.40	23.01	-5.61
Ĕ	5240	48	AVG	17.52	17.84	20.69	23.98	-3.29	-3.34	17.35	23.01	-5.66
Ba	5260	52	AVG	17.65	17.79	20.73	23.98	-3.25	-4.14	16.59	30.00	-13.41
N	5280	56	AVG	17.65	17.97	20.82	23.98	-3.16	-4.14	16.68	30.00	-13.32
エ	5300	60	AVG	17.80	17.94	20.88	23.98	-3.10	-4.14	16.74	30.00	-13.26
Σ	5320	64	AVG	17.54	17.98	20.78	23.98	-3.20	-4.14	16.64	30.00	-13.36
(20MI	5500	100	AVG	17.62	17.91	20.78	23.98	-3.20	-5.45	15.33	30.00	-14.67
	5600	120	AVG	17.80	17.95	20.89	23.98	-3.09	-5.45	15.44	-	-
¥	5620	124	AVG	17.62	17.75	20.70	23.98	-3.28	-5.45	15.25	-	-
G	5720	144	AVG	17.72	17.54	20.64	23.98	-3.34	-5.45	15.19	30.00	-14.81
5	5745	149	AVG	17.71	17.68	20.71	30.00	-9.29	-4.84	15.87	-	-
	5785	157	AVG	17.84	17.99	20.93	30.00	-9.07	-4.84	16.09	-	-
	5825	165	AVG	17.58	17.76	20.68	30.00	-9.32	-4.84	15.84	-	-

Table 7-9. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conc	lucted Power [dBm]		Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u>~</u>				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abiii]	[uD]
¥	5180	36	AVG	15.11	15.15	18.14	23.98	-5.84	-3.34	14.80	23.01	-8.21
÷	5200	40	AVG	17.62	17.91	20.78	23.98	-3.20	-3.34	17.44	23.01	-5.57
Bandwidth)	5220	44	AVG	17.66	17.71	20.70	23.98	-3.28	-3.34	17.36	23.01	-5.65
Ĕ	5240	48	AVG	17.48	17.64	20.57	23.98	-3.41	-3.34	17.23	23.01	-5.78
8	5260	52	AVG	17.52	17.67	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
Z	5280	56	AVG	17.50	17.84	20.68	23.98	-3.30	-4.14	16.54	30.00	-13.46
エ	5300	60	AVG	17.65	17.81	20.74	23.98	-3.24	-4.14	16.60	30.00	-13.40
Σ	5320	64	AVG	16.62	16.92	19.78	23.98	-4.20	-4.14	15.64	30.00	-14.36
(20M	5500	100	AVG	16.86	16.51	19.70	23.98	-4.28	-5.45	14.25	30.00	-15.75
	5600	120	AVG	17.69	17.66	20.69	23.98	-3.29	-5.45	15.24	-	-
Ŧ	5620	124	AVG	17.69	17.56	20.64	23.98	-3.34	-5.45	15.19	-	-
5G	5720	144	AVG	17.59	17.79	20.70	23.98	-3.28	-5.45	15.25	30.00	-14.75
5	5745	149	AVG	17.51	17.98	20.76	30.00	-9.24	-4.84	15.92	-	-
	5785	157	AVG	17.67	17.92	20.81	30.00	-9.19	-4.84	15.97	-	-
	5825	165	AVG	17.47	17.54	20.52	30.00	-9.48	-4.84	15.68	-	-

Table 7-10. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 00 of 260
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O COOL BOTEOT			110000001010010



	Freq [MHz]	Channel	Detector	Conc	lucted Power [dBm]	Conducted Power Limit	Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u> </u>				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Linii (abii)	[ub]
ndwidth)	5180	36	AVG	15.48	15.45	18.48	23.98	-5.50	-3.34	15.14	23.01	-7.87
÷	5200	40	AVG	17.72	17.86	20.80	23.98	-3.18	-3.34	17.46	23.01	-5.55
<u> </u>	5220	44	AVG	17.66	17.72	20.70	23.98	-3.28	-3.34	17.36	23.01	-5.65
Ĕ	5240	48	AVG	17.52	17.61	20.58	23.98	-3.40	-3.34	17.24	23.01	-5.77
Ba	5260	52	AVG	17.54	17.65	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
	5280	56	AVG	17.54	17.90	20.73	23.98	-3.25	-4.14	16.59	30.00	-13.41
Ŧ	5300	60	AVG	17.78	17.88	20.84	23.98	-3.14	-4.14	16.70	30.00	-13.30
Σ	5320	64	AVG	16.95	16.98	19.98	23.98	-4.00	-4.14	15.84	30.00	-14.16
(20MI	5500	100	AVG	16.97	16.48	19.74	23.98	-4.24	-5.45	14.29	30.00	-15.71
	5600	120	AVG	17.52	17.68	20.61	23.98	-3.37	-5.45	15.16	-	-
Ŧ	5620	124	AVG	17.64	17.59	20.63	23.98	-3.35	-5.45	15.18	1	-
C)	5720	144	AVG	17.60	17.88	20.75	23.98	-3.23	-5.45	15.30	30.00	-14.70
5	5745	149	AVG	17.58	17.99	20.80	30.00	-9.20	-4.84	15.96	-	-
	5785	157	AVG	17.80	17.92	20.87	30.00	-9.13	-4.84	16.03	-	-
	5825	165	AVG	17.44	17.57	20.52	30.00	-9.48	-4.84	15.68	-	-

Table 7-11. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conc	ducted Power [dBm]		Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u> </u>				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abin]	[ub]
÷	5180	36	AVG	15.36	15.39	18.39	23.98	-5.59	-3.34	15.05	23.01	-7.96
į	5200	40	AVG	17.64	17.99	20.83	23.98	-3.15	-3.34	17.49	23.01	-5.52
ndwidth)	5220	44	AVG	17.60	17.77	20.70	23.98	-3.28	-3.34	17.36	23.01	-5.65
ľ	5240	48	AVG	17.42	17.68	20.56	23.98	-3.42	-3.34	17.22	23.01	-5.79
Bal	5260	52	AVG	17.45	17.74	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
	5280	56	AVG	17.50	17.94	20.74	23.98	-3.24	-4.14	16.60	30.00	-13.40
Hz	5300	60	AVG	17.66	17.83	20.76	23.98	-3.22	-4.14	16.62	30.00	-13.38
(20MI	5320	64	AVG	16.94	16.76	19.86	23.98	-4.12	-4.14	15.72	30.00	-14.28
20	5500	100	AVG	16.92	16.95	19.95	23.98	-4.03	-5.45	14.50	30.00	-15.50
	5600	120	AVG	17.57	17.79	20.69	23.98	-3.29	-5.45	15.24	-	-
Hz	5620	124	AVG	17.55	17.74	20.66	23.98	-3.32	-5.45	15.21	-	-
Ð	5720	144	AVG	17.57	17.95	20.77	23.98	-3.21	-5.45	15.32	30.00	-14.68
5	5745	149	AVG	17.55	17.63	20.60	30.00	-9.40	-4.84	15.76	-	-
	5785	157	AVG	17.63	17.94	20.80	30.00	-9.20	-4.84	15.96	-	-
	5825	165	AVG	17.95	17.68	20.83	30.00	-9.17	-4.84	15.99	-	-

Table 7-12. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	nnel Detector	Conc	lucted Power [dBm]		Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abin]	
₽ ~	5190	38	AVG	13.68	13.79	16.75	23.98	-7.23	-3.34	13.41	23.01	-9.60
OMH idth)	5230	46	AVG	16.89	16.67	19.79	23.98	-4.19	-3.34	16.45	23.01	-6.56
₽ 5	5270	54	AVG	16.96	16.55	19.77	23.98	-4.21	-4.14	15.63	30.00	-14.37
(40 Wic	5310	62	AVG	14.99	14.97	17.99	23.98	-5.99	-4.14	13.85	30.00	-16.15
Hz (and	5510	102	AVG	15.44	15.30	18.38	23.98	-5.60	-5.45	12.93	30.00	-17.07
유 Ba	5590	118	AVG	16.53	16.89	19.72	23.98	-4.26	-5.45	14.27	-	-
50 E	5630	126	AVG	16.66	16.36	19.52	23.98	-4.46	-5.45	14.07	-	-
	5710	142	AVG	16.88	16.83	19.87	23.98	-4.11	-5.45	14.42	30.00	-15.58
	5755	151	AVG	16.70	16.71	19.72	30.00	-10.28	-4.84	14.88	-	-
	5795	159	AVG	16.56	16.87	19.73	30.00	-10.27	-4.84	14.89	-	-

Table 7-13. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION) SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 269
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	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[uSiii]	Liniit [GDin]	[ub]
Ž 🧢	5190	38	AVG	13.03	13.86	16.48	23.98	-7.50	-3.34	13.14	23.01	-9.87
om dth)	5230	46	AVG	16.80	16.67	19.75	23.98	-4.23	-3.34	16.41	23.01	-6.60
<u>₽</u> .₽	5270	54	AVG	16.93	16.50	19.73	23.98	-4.25	-4.14	15.59	30.00	-14.41
(40) dwic	5310	62	AVG	14.60	14.72	17.67	23.98	-6.31	-4.14	13.53	30.00	-16.47
ρŞ	5510	102	AVG	15.43	15.28	18.37	23.98	-5.61	-5.45	12.92	30.00	-17.08
GF Ba	5590	118	AVG	16.46	16.92	19.71	23.98	-4.27	-5.45	14.26	-	-
50 E	5630	126	AVG	16.65	16.41	19.54	23.98	-4.44	-5.45	14.09	-	-
	5710	142	AVG	16.62	16.92	19.78	23.98	-4.20	-5.45	14.33	30.00	-15.67
	5755	151	AVG	16.63	16.71	19.68	30.00	-10.32	-4.84	14.84	-	-
	5795	159	AVG	16.64	16.78	19.72	30.00	-10.28	-4.84	14.88	-	-

Table 7-14. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [GDin]	[uD]
Ž (5190	38	AVG	13.78	13.92	16.86	23.98	-7.12	-3.34	13.52	23.01	-9.49
OMH	5230	46	AVG	16.80	16.51	19.67	23.98	-4.31	-3.34	16.33	23.01	-6.68
₽ ₽	5270	54	AVG	16.95	16.91	19.94	23.98	-4.04	-4.14	15.80	30.00	-14.20
(40) dwic	5310	62	AVG	14.76	14.98	17.88	23.98	-6.10	-4.14	13.74	30.00	-16.26
ΝČ	5510	102	AVG	15.37	15.47	18.43	23.98	-5.55	-5.45	12.98	30.00	-17.02
유 Ba	5590	118	AVG	16.95	16.71	19.84	23.98	-4.14	-5.45	14.39	-	-
50 E	5630	126	AVG	16.47	16.86	19.68	23.98	-4.30	-5.45	14.23	-	-
	5710	142	AVG	16.73	16.76	19.76	23.98	-4.22	-5.45	14.31	30.00	-15.69
	5755	151	AVG	16.63	16.63	19.64	30.00	-10.36	-4.84	14.80	-	-
	5795	159	AVG	16.50	16.68	19.60	30.00	-10.40	-4.84	14.76	-	-

Table 7-15. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

7 C	Freq [MHz]	Channel	Channel Detector	Conducted Power [dBm]				Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[42]		[]
(80M widtl	5210	42	AVG	12.15	12.46	15.32	23.98	-8.66	-3.34	11.98	23.01	-11.03
) z	5290	58	AVG	12.98	12.87	15.94	23.98	-8.04	-4.14	11.80	30.00	-18.20
5GH Baı	5530	106	AVG	14.97	14.80	17.90	23.98	-6.08	-5.45	12.45	30.00	-17.55
50	5690	138	AVG	15.42	15.90	18.68	23.98	-5.30	-5.45	13.23	30.00	-16.77
	5775	155	AVG	15.79	15.59	18.70	30.00	-11.30	-4.84	13.86	-	-

Table 7-16. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

(80MHz Iwidth)	Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]		[us]
	5210	42	AVG	12.47	12.42	15.46	23.98	-8.52	-3.34	12.12	23.01	-10.89
tz ()	5290	58	AVG	12.67	12.76	15.73	23.98	-8.25	-4.14	11.59	30.00	-18.41
Ba GH	5530	106	AVG	14.82	14.65	17.75	23.98	-6.23	-5.45	12.30	30.00	-17.70
Ω _	5690	138	AVG	15.39	15.81	18.62	23.98	-5.36	-5.45	13.17	30.00	-16.83
	5775	155	AVG	15.72	15.55	18.65	30.00	-11.35	-4.84	13.81	-	-

Table 7-17. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION) SIMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 269
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7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

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

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

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.

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

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None

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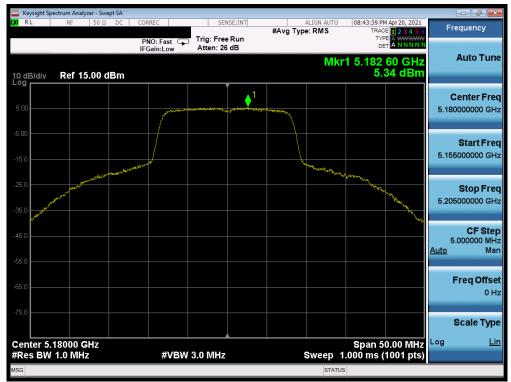
SISO Antenna-1 Power Spectral Density Measurements

					Magazired	Max Power	
	Frequency	Channel	802 11 Mode	Data Rate [Mbps]	Measured Power Density	Density	Margin
	[MHz]	No.		Bata rtato [mapo]	[dBm]	[dBm/MHz]	[dB]
	5180	36	а	6	5.34	11.0	-5.66
	5200	40	а	6	4.95	11.0	-6.05
	5240	48	а	6	5.88	11.0	-5.12
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.57	11.0	-6.43
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	4.12	11.0	-6.88
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	5.27	11.0	-5.74
_	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.19	11.0	-6.81
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	4.14	11.0	-6.86
Ba	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.21	11.0	-5.79
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.47	11.0	-9.53
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.01	11.0	-8.99
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.73	11.0	-9.27
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.33	11.0	-8.67
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.27	11.0	-13.27
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.36	11.0	-13.36
	5260	52	а	6	6.75	11.0	-4.25
	5280	56	а	6	6.69	11.0	-4.31
	5320	64	а	6	6.46	11.0	-4.54
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.06	11.0	-4.94
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.10	11.0	-4.90
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.49	11.0	-4.51
≴	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.73	11.0	-5.27
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.94	11.0	-5.06
Bar	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	6.06	11.0	-4.94
	5270	54	n (40MHz)	13.5/15 (MCS0)	3.10	11.0	-7.90
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.96	11.0	-8.04
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.88	11.0	-8.12
	5310	62	ax (40MHz)	13.5/15 (MCS0)	2.93	11.0	-8.07
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.67	11.0	-12.67
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.50	11.0	-12.50
	5500	100	а	6	6.60	11.0	-4.40
	5600	120	а	6	5.61	11.0	-5.39
	5720	144	а	6	5.77	11.0	-5.23
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.26	11.0	-4.74
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.89	11.0	-6.11
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.51	11.0	-5.49
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.95	11.0	-5.05
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.82	11.0	-6.18
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	5.53	11.0	-5.47
ပ္က	5510	102	n (40MHz)	13.5/15 (MCS0)	3.12	11.0	-7.88
Band 2C	5590	118	n (40MHz)	13.5/15 (MCS0)	2.38	11.0	-8.62
Bar	5710	142	n (40MHz)	13.5/15 (MCS0)	2.32	11.0	-8.68
	5510	102	ax (40MHz)	13.5/15 (MCS0)	2.89	11.0	-8.11
	5590	118	ax (40MHz)	13.5/15 (MCS0)	2.47	11.0	-8.53
	5710	142	ax (40MHz)	13.5/15 (MCS0)	2.09	11.0	-8.91
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.72	11.0	-12.72
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.44	11.0	-13.44
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.82	11.0	-15.82
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-1.64	11.0	-12.64
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.06	11.0	-13.06
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-4.78	11.0	-15.78
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Table 7-18. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-132. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 36)



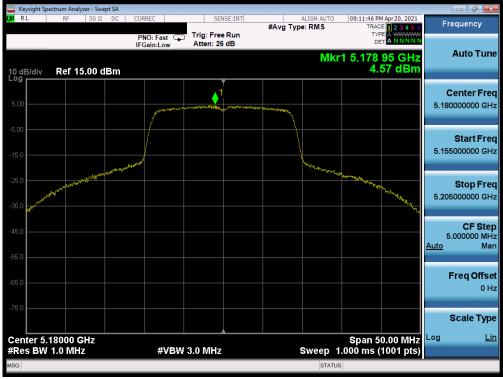
Plot 7-133. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711U1 Proud to be part of ⊕ element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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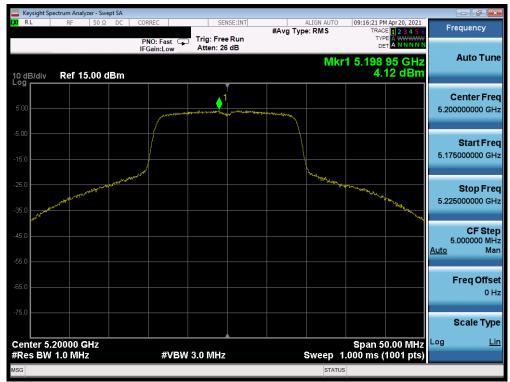
Plot 7-134. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



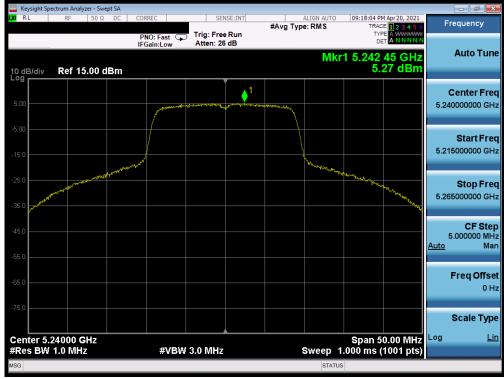
Plot 7-135. Power Spectral Density Plot SISO ANT1 (20MHz BW 20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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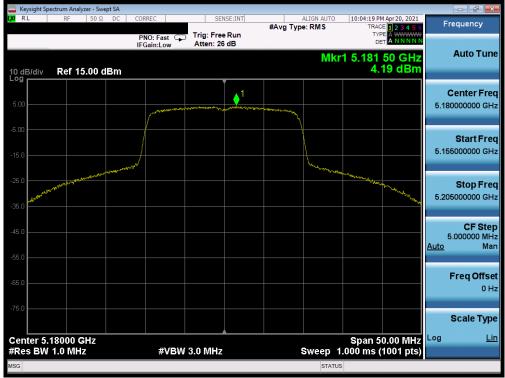
Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



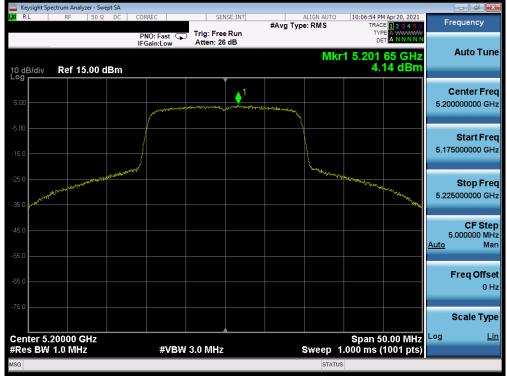
Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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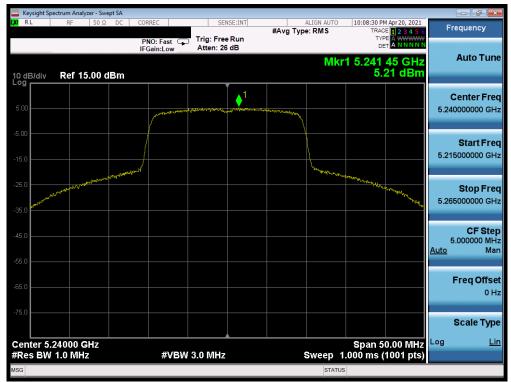
Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



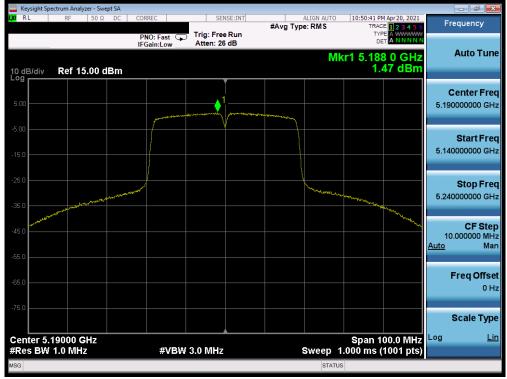
Plot 7-139. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-140. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



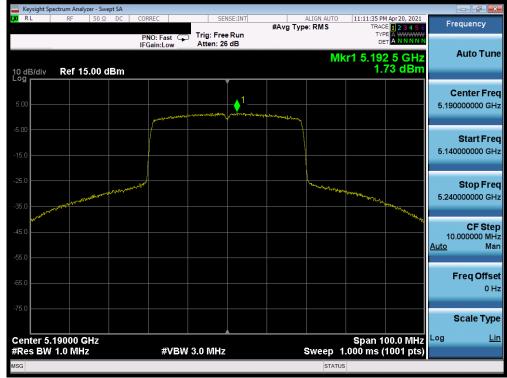
Plot 7-141. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION) SAMSUNG	Approved by: Technical Manager
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Plot 7-142. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



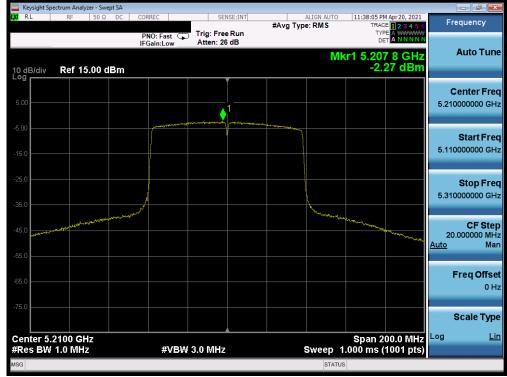
Plot 7-143. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 269
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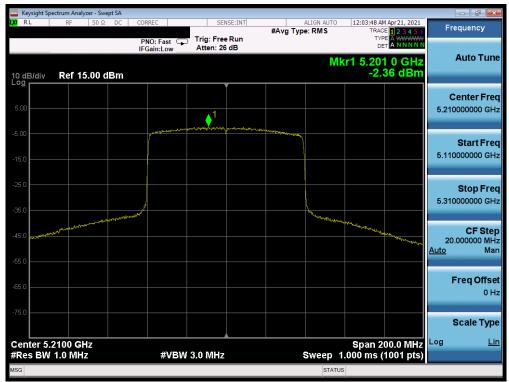
Plot 7-144. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



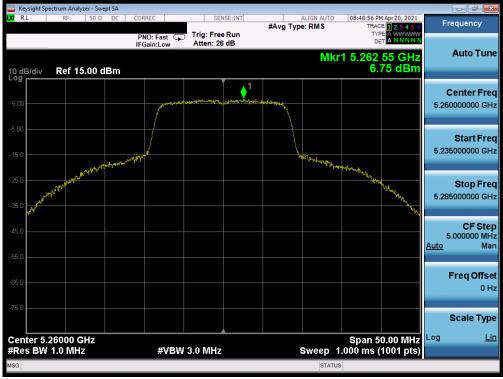
Plot 7-145. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-146. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



Plot 7-147. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 402 of 269
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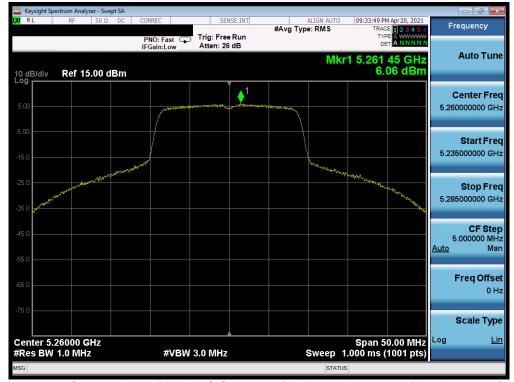
Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



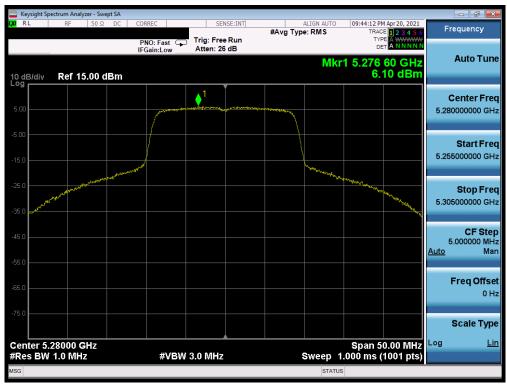
Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 404 of 269
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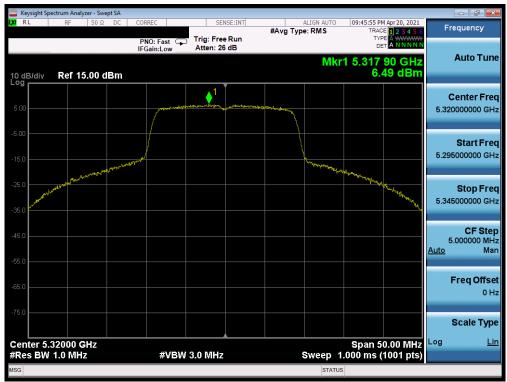
Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



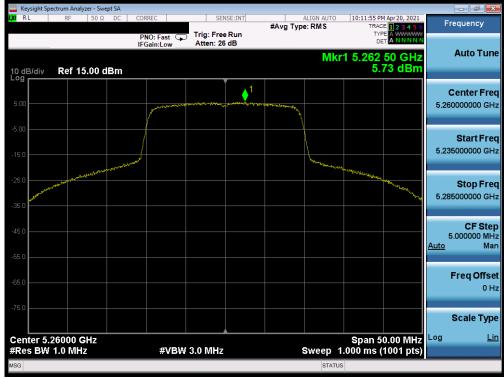
Plot 7-151. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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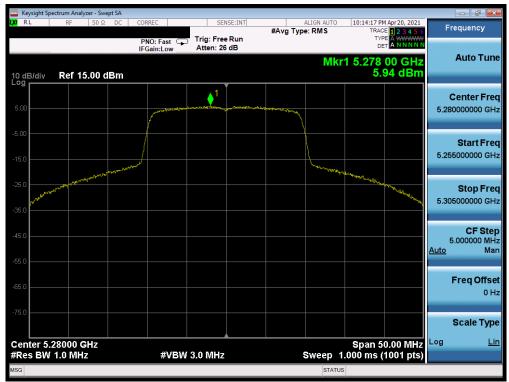
Plot 7-152. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



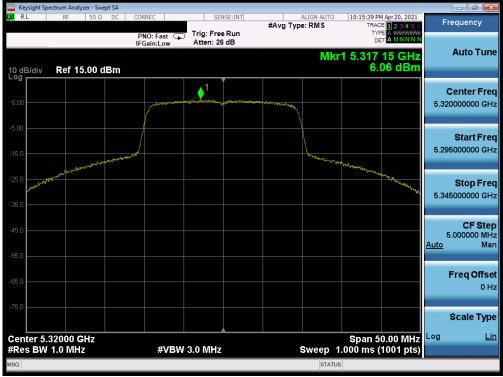
Plot 7-153. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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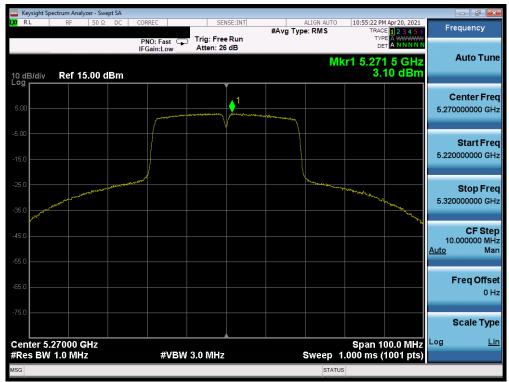
Plot 7-154. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



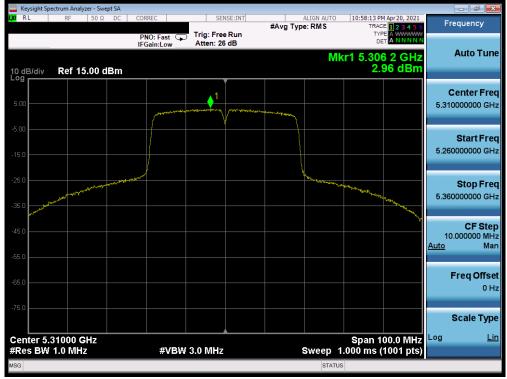
Plot 7-155. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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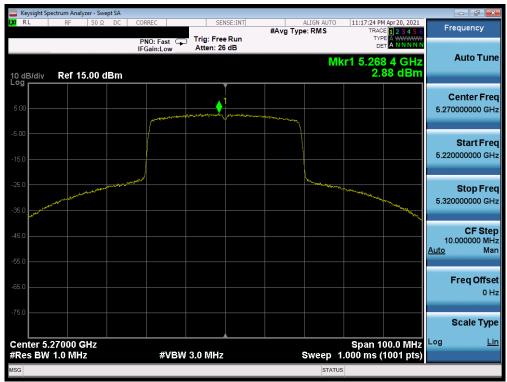
Plot 7-156. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



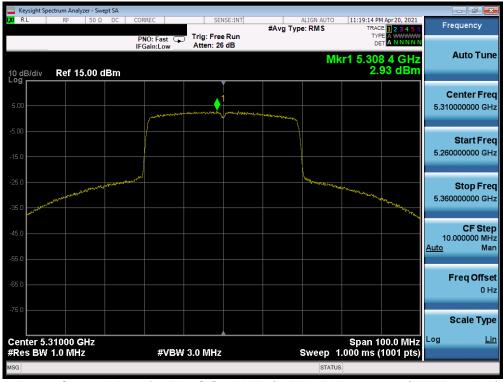
Plot 7-157. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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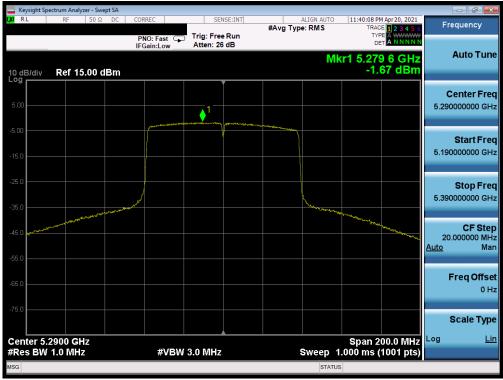
Plot 7-158. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



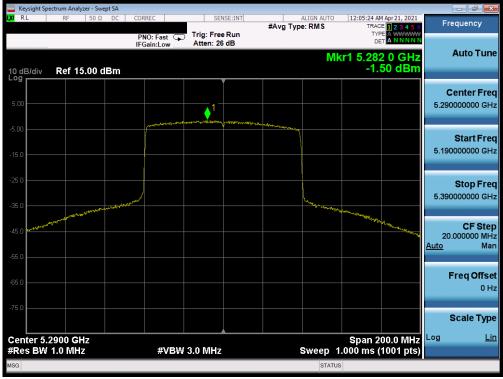
Plot 7-159. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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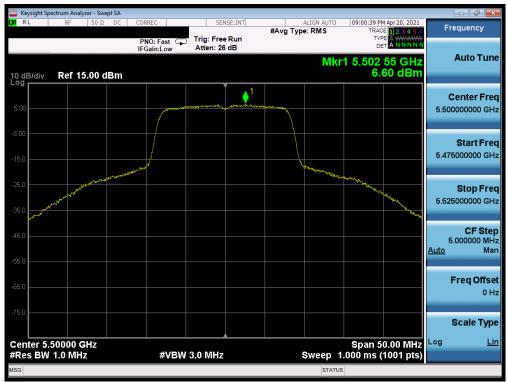
Plot 7-160. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



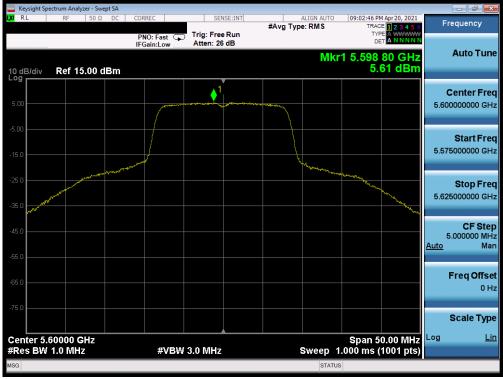
Plot 7-161. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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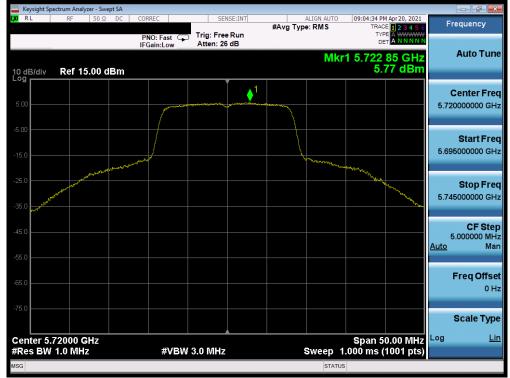
Plot 7-162. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



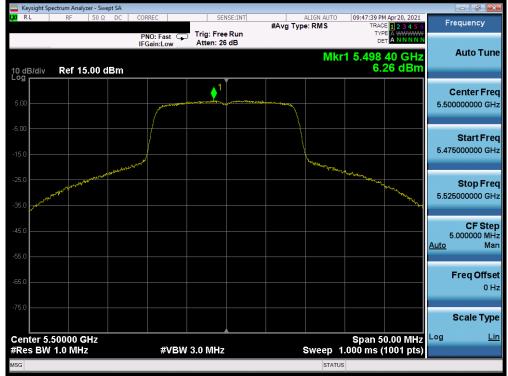
Plot 7-163. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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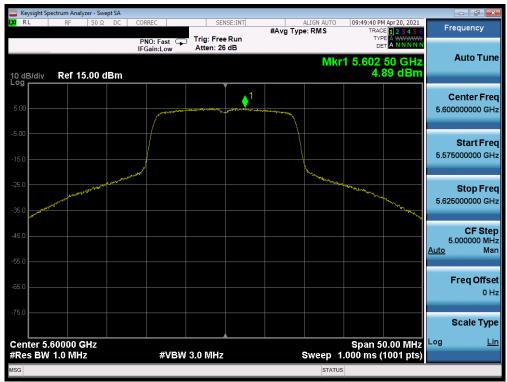
Plot 7-164. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



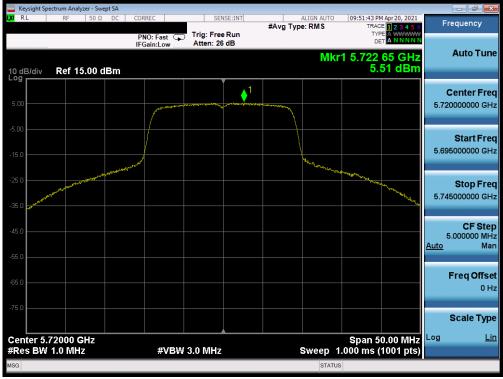
Plot 7-165. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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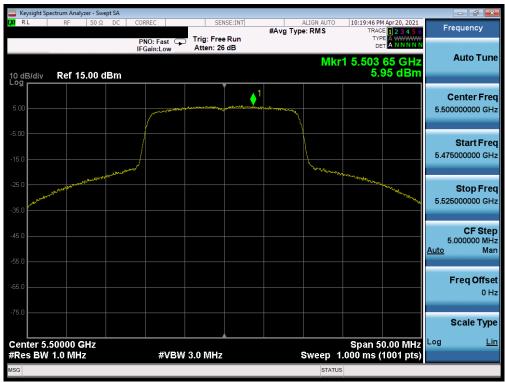
Plot 7-166. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



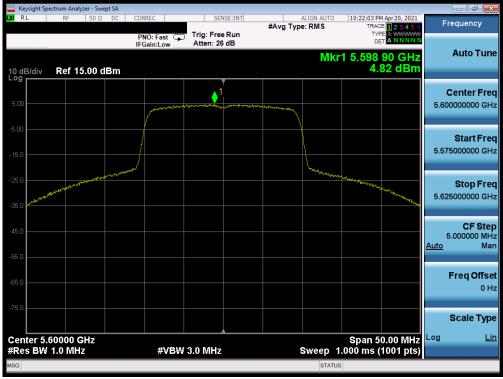
Plot 7-167. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-168. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



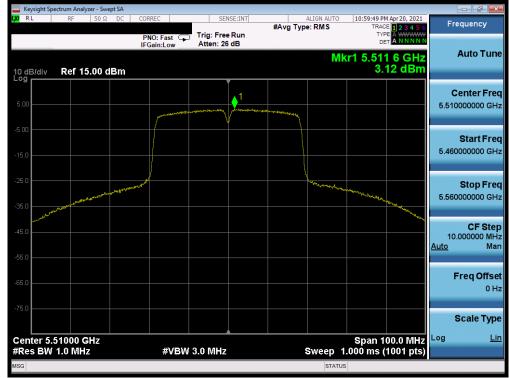
Plot 7-169. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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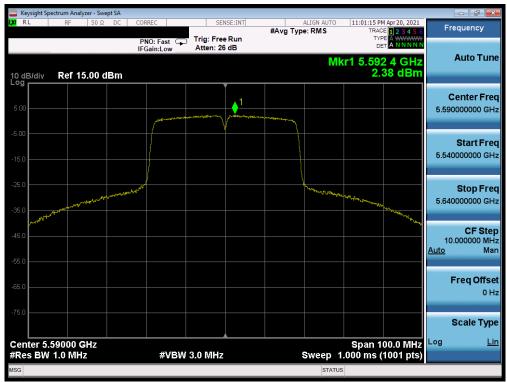
Plot 7-170. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



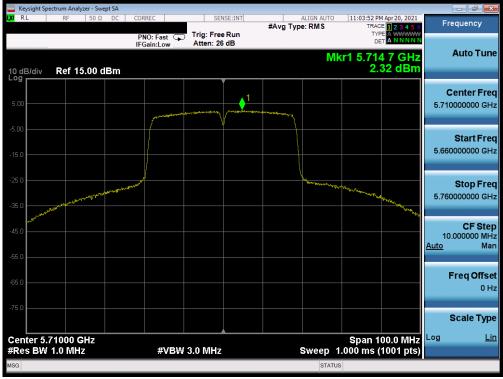
Plot 7-171. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-172. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



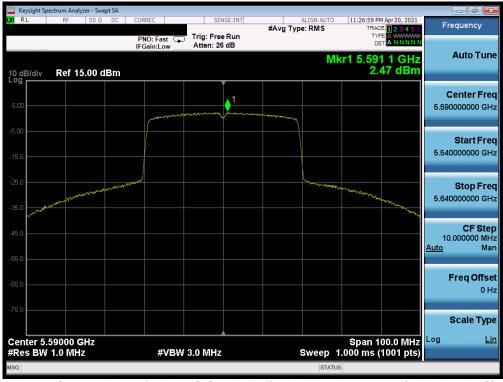
Plot 7-173. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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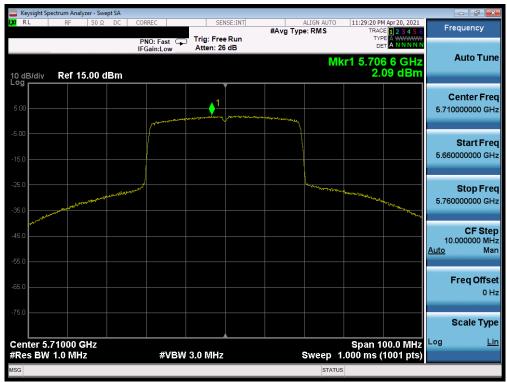
Plot 7-174. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



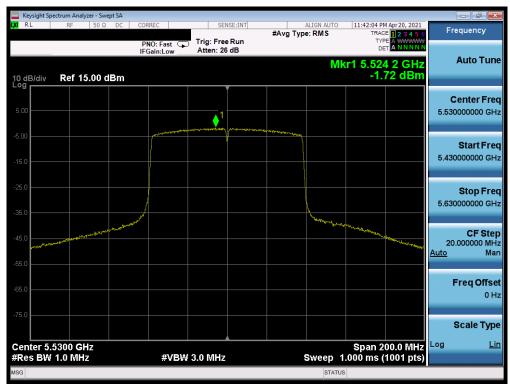
Plot 7-175. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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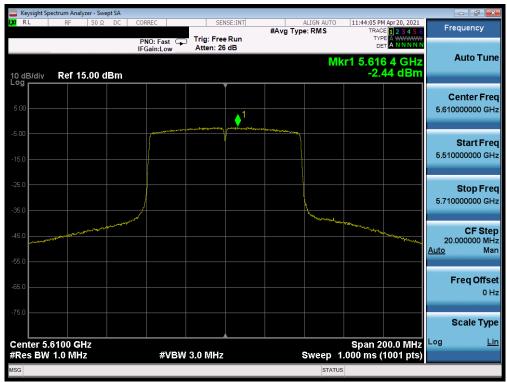
Plot 7-176. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



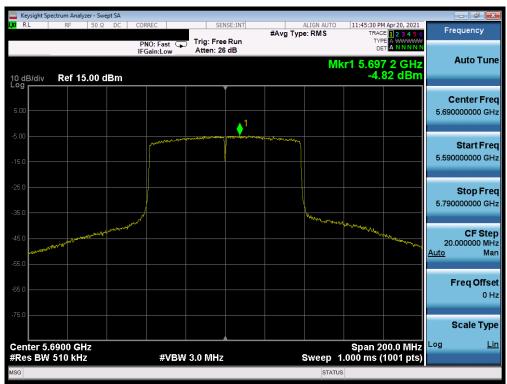
Plot 7-177. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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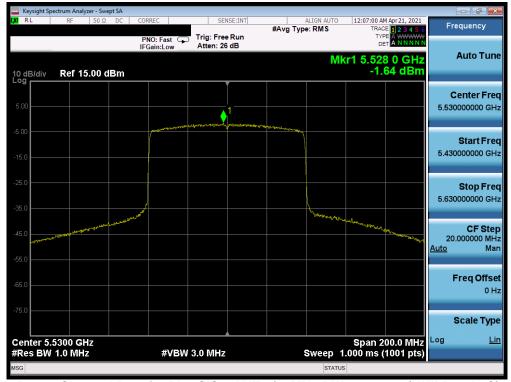
Plot 7-178. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



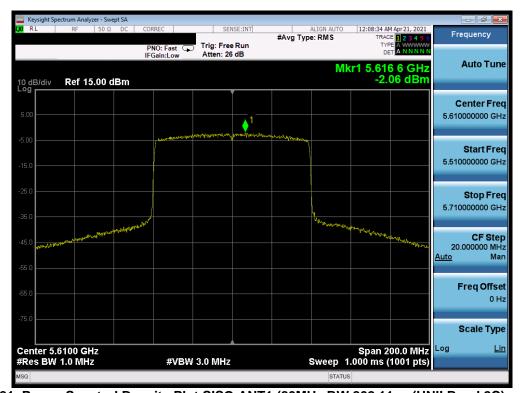
Plot 7-179. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 110 of 260
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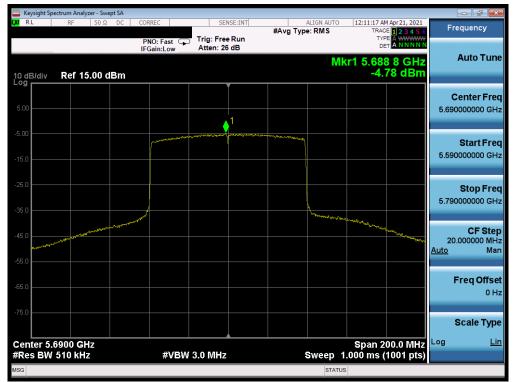
Plot 7-180. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-181. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 420 of 260
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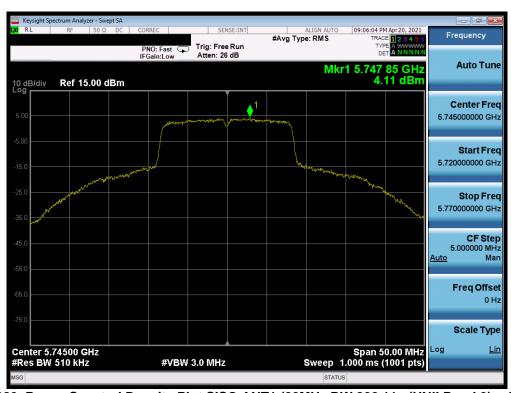
Plot 7-182. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U1	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	4.11	30.0	-25.89
	5785	157	а	6	4.47	30.0	-25.53
	5825	165	а	6	3.70	30.0	-26.30
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.58	30.0	-26.42
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	4.23	30.0	-25.77
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.35	30.0	-26.65
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	4.48	30.0	-25.52
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	4.22	30.0	-25.78
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	3.90	30.0	-26.10
	5755	151	n (40MHz)	13.5/15 (MCS0)	0.33	30.0	-29.67
	5795	159	n (40MHz)	13.5/15 (MCS0)	0.45	30.0	-29.55
	5755	151	ax (40MHz)	13.5/15 (MCS0)	0.29	30.0	-29.71
	5795	159	ax (40MHz)	13.5/15 (MCS0)	0.37	30.0	-29.63
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.96	30.0	-30.96
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.60	30.0	-30.60

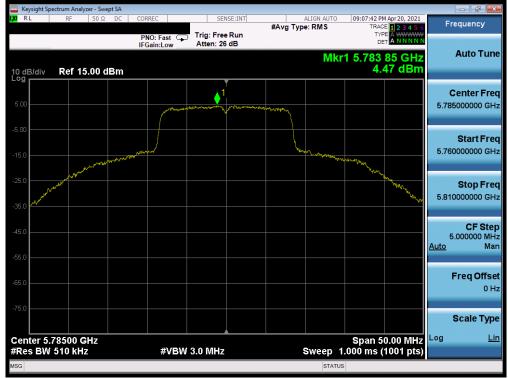
Table 7-19. Band 3 Conducted Power Spectral Density Measurements SISO ANT1



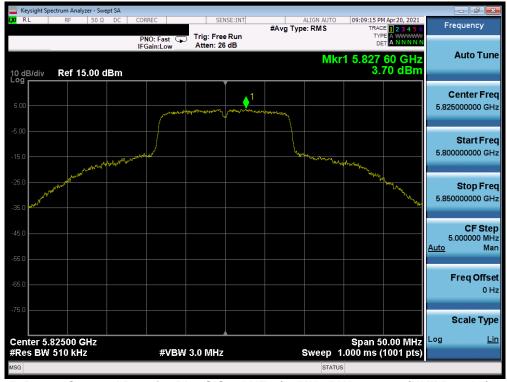
Plot 7-183. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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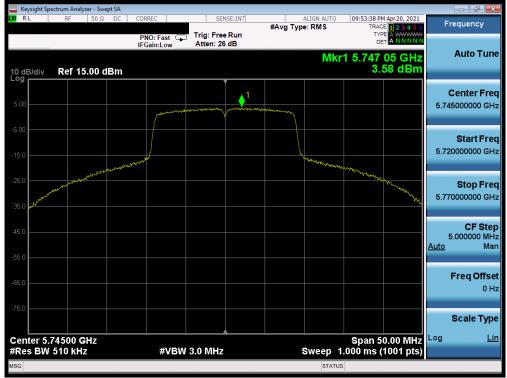
Plot 7-184. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)



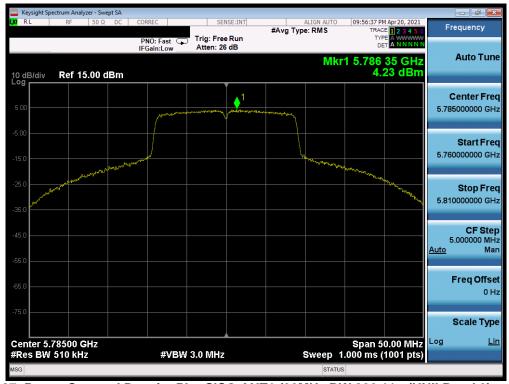
Plot 7-185. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-186. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



Plot 7-187. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711U1	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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