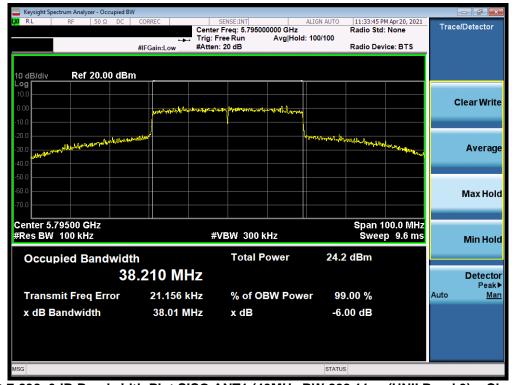




Plot 7-231. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-232. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

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Plot 7-233. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-234. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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MIMO 6 dB Bandwidth Measurements-N

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	MIMO 6dB Bandwidth - N [MHz]
	5745	149	а	6	18.31
	5785	157	а	6	16.33
	5825	165	а	6	15.42
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	13.21
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.60
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	13.93
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	16.15
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	16.68
m	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.86
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.12
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.79
	5755	151	ax (40MHz)	13.5/15 (MCS0)	36.13
	5795	159	ax (40MHz)	13.5/15 (MCS0)	36.17
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.70
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.35

Table 7-8. Conducted Bandwidth Measurements MIMO



Plot 7-235. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 149)

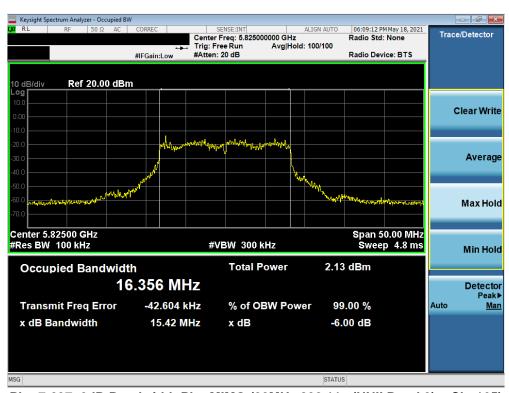
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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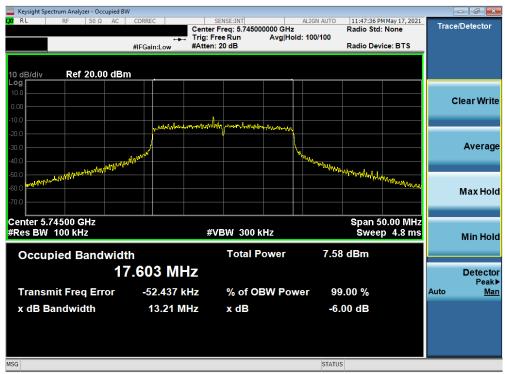
Plot 7-236. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 157)



Plot 7-237. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 142 of 500
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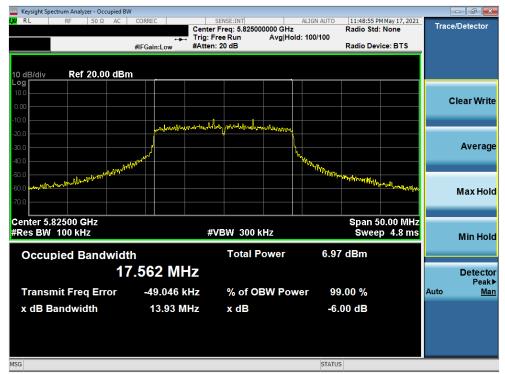
Plot 7-238. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 149)



Plot 7-239. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 142 of 500
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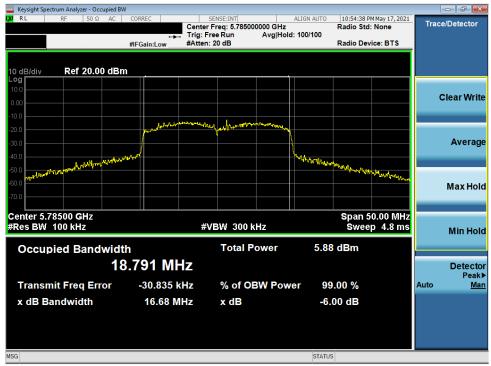
Plot 7-240. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 165)



Plot 7-241. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 144 of 500
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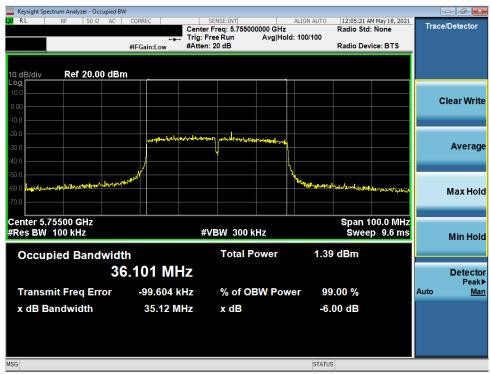
Plot 7-242. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 157)



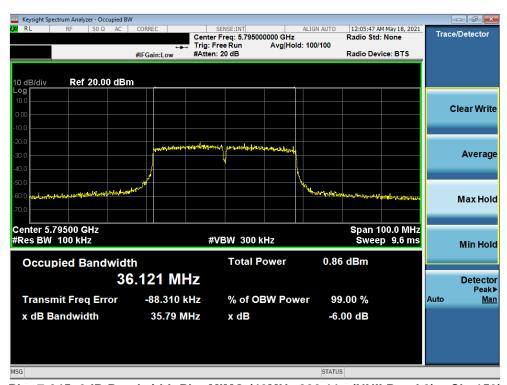
Plot 7-243. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 145 of 500
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Plot 7-244. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 151)



Plot 7-245. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-246. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-247. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 447 of 500
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Plot 7-248. 6dB Bandwidth Plot MIMO (80MHz 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-249. 6dB Bandwidth Plot MIMO (80MHz 802.11ax (UNII Band 3) - Ch. 155)

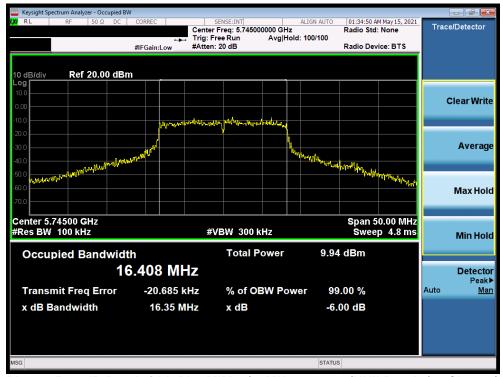
FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 140 of 500
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MIMO 6 dB Bandwidth Measurements-Q

	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 7-9. Conducted Bandwidth Measurements MIMO



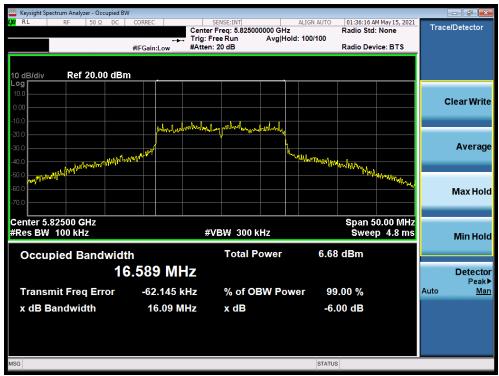
Plot 7-250. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
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Plot 7-251. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 157)



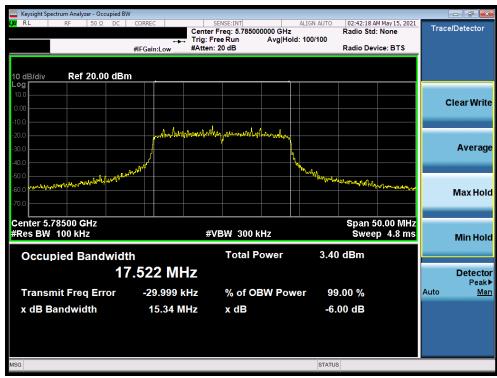
Plot 7-252. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogg 450 of 500	
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Plot 7-253. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 149)



Plot 7-254. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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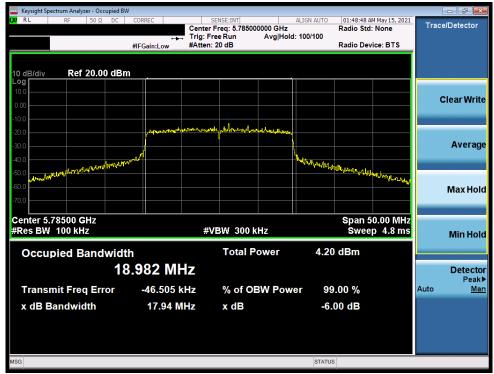
Plot 7-255. 6dB Bandwidth Plot MIMO (20MHz 802.11n (UNII Band 3) - Ch. 165)



Plot 7-256. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogg 452 of 500	
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Plot 7-257. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 157)



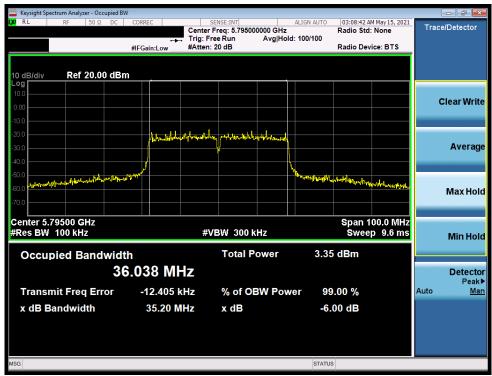
Plot 7-258. 6dB Bandwidth Plot MIMO (20MHz 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-259. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 151)



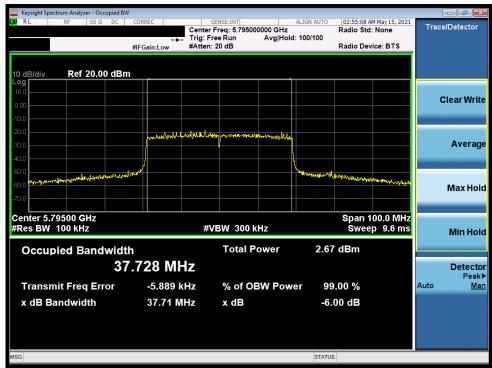
Plot 7-260. 6dB Bandwidth Plot MIMO (40MHz 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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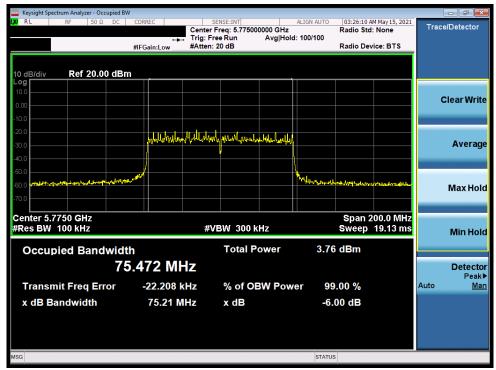
Plot 7-261. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-262. 6dB Bandwidth Plot MIMO (40MHz 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-263. 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: A3LSMF711B	Proud to be part of @ element	(CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
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7.4 UNII Output Power Measurement – 802.11a §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 + $10\log_{10}(26dB \text{ BW}) = 11 \text{ dBm} + 10\log_{10}(18.82) = 23.75dBm$. 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 + $10\log_{10}(26dB\ BW) = 11\ dBm + 10\log_{10}(18.61) = 23.70dBm$. 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.
- 2. This device will be manufactured using two different WIFI chipsets (N and Q). Both two chipsets are tested, and both conducted emissions data is shown in this report.

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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SISO Antenna-1 Conducted Output Power Measurements - N

Freq [MHz]	Channel	Detector		IEEE Transn	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]		[]
5180	36	AVG	16.17	15.47	15.41	15.22	23.98	-7.81	-6.60	9.57	23.01	-13.44
5200	40	AVG	17.98	17.95	17.92	17.99	23.98	-6.00	-6.60	11.38	23.01	-11.63
5220	44	AVG	17.99	17.98	17.98	17.98	23.98	-5.99	-6.60	11.39	23.01	-11.62
5240	48	AVG	17.75	17.99	17.99	17.97	23.98	-5.99	-6.60	11.39	23.01	-11.62
5260	52	AVG	17.98	17.97	17.93	17.96	23.98	-6.00	-8.10	9.88	30.00	-20.12
5280	56	AVG	17.92	17.86	17.85	17.88	23.98	-6.06	-8.10	9.82	30.00	-20.18
5300	60	AVG	17.89	17.85	17.87	17.86	23.98	-6.09	-8.10	9.79	30.00	-20.21
5320	64	AVG	17.99	16.75	16.70	16.54	23.98	-5.99	-8.10	9.89	30.00	-20.11
5500	100	AVG	17.96	16.67	16.65	16.99	23.98	-6.02	-9.80	8.16	30.00	-21.84
5600	120	AVG	17.81	17.72	17.74	17.76	23.98	-6.17	-9.80	8.01	-	-
5620	124	AVG	17.98	17.95	17.97	17.98	23.98	-6.00	-9.80	8.18	-	-
5720	144	AVG	17.99	17.98	17.75	17.77	23.98	-5.99	-9.80	8.19	30.00	-21.81
5745	149	AVG	17.91	17.89	17.92	17.94	30.00	-12.08	-7.70	10.22	-	-
5785	157	AVG	17.78	17.69	17.78	17.75	30.00	-12.22	-7.70	10.08	-	-
5825	165	AVG	17.96	17.97	17.98	17.99	30.00	-12.02	-7.70	10.28	-	-

Table 7-10. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power

	Freq [MHz]	q [MHz] Channel		IEEE	Transmission	Mode	Conducted Power Limit	Conducted Power Margin	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				802.11n	802.11ac	802.11ax	[dBm]	[dB]	[uDi]	[]	Limit [dbin]	[ub]
N C	5190	38	AVG	13.94	13.75	13.89	23.98	-10.04	-6.60	7.34	23.01	-15.67
ath	5230	46	AVG	16.72	16.73	16.62	23.98	-7.25	-6.60	10.13	23.01	-12.88
○ .≌	5270	54	AVG	16.75	16.74	16.61	23.98	-7.23	-8.10	8.65	30.00	-21.35
4, ¥	5310	62	AVG	14.58	14.59	14.77	23.98	-9.39	-8.10	6.49	30.00	-23.51
2 2	5510	102	AVG	15.48	15.49	15.23	23.98	-8.49	-9.80	5.69	30.00	-24.31
유 Ba	5590	118	AVG	16.93	16.95	16.87	23.98	-7.03	-9.80	7.15	-	-
50 E	5630	126	AVG	16.74	16.75	16.64	23.98	-7.23	-9.80	6.95	-	-
	5710	142	AVG	16.82	16.79	16.75	23.98	-7.16	-9.80	7.02	30.00	-22.98
	5755	151	AVG	16.87	16.83	16.77	30.00	-13.13	-7.70	9.17	-	-
	5795	159	AVG	16.98	16.95	16.97	30.00	-13.02	-7.70	9.28	-	-

Table 7-11. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	IEEE Transm	nission Mode		Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]	
H (c				802.11ac	802.11ax	[dBm]	[dB]	[]	[]		[uD]	
(80MHz lwidth)	5210	42	AVG	12.48	12.47	23.98	-11.50	-6.60	5.88	23.01	-17.13	
8) 8	5290	58	AVG	12.83	12.87	23.98	-11.15	-8.10	4.73	30.00	-25.27	
5GHz Banc	5530	106	AVG	14.79	14.78	23.98	-9.19	-9.80	4.99	30.00	-25.01	
5G B	5610	122	AVG	15.84	15.86	23.98	-8.14	-9.80	6.04	-	-	
	5690	138	AVG	15.82	15.83	23.98	-8.16	-9.80	6.02	30.00	-23.98	
	5775	155	AVG	15.95	15.94	30.00	-14.05	-7.70	8.25	-	-	

Table 7-12. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of element (CERTIFIC.		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 450 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 159 of 508



MIMO Maximum Conducted Output Power Measurements - N

	Freq [MHz]	Channel	Detector	Conc	ducted Power [dBm]	Conducted Power Limit	Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
(ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [dbin]	[ub]
andwidth)	5180	36	AVG	15.40	16.23	18.85	23.98	-5.13	-3.34	15.51	23.01	-7.50
j:	5200	40	AVG	17.98	17.67	20.84	23.98	-3.14	-3.34	17.50	23.01	-5.51
<u>≶</u>	5220	44	AVG	17.41	17.98	20.71	23.98	-3.27	-3.34	17.37	23.01	-5.64
Ĕ	5240	48	AVG	17.57	17.96	20.78	23.98	-3.20	-3.34	17.44	23.01	-5.57
Ba	5260	52	AVG	17.72	17.93	20.84	23.98	-3.14	-4.14	16.70	30.00	-13.30
Z	5280	56	AVG	17.98	17.28	20.65	23.98	-3.33	-4.14	16.51	30.00	-13.49
Ï	5300	60	AVG	17.98	17.95	20.98	23.98	-3.00	-4.14	16.84	30.00	-13.16
Ξ	5320	64	AVG	17.72	17.36	20.55	23.98	-3.43	-4.14	16.41	30.00	-13.59
(20	5500	100	AVG	17.56	17.57	20.58	23.98	-3.40	-5.45	15.13	30.00	-14.87
	5600	120	AVG	17.43	17.95	20.71	23.98	-3.27	-5.45	15.26	-	-
¥	5620	124	AVG	17.97	17.96	20.98	23.98	-3.00	-5.45	15.53	-	-
G	5720	144	AVG	17.95	17.54	20.76	23.98	-3.22	-5.45	15.31	30.00	-14.69
5	5745	149	AVG	17.78	17.35	20.58	30.00	-9.42	-4.84	15.74	-	-
	5785	157	AVG	17.93	17.61	20.78	30.00	-9.22	-4.84	15.94	-	-
	5825	165	AVG	17.03	17.98	20.54	30.00	-9.46	-4.84	15.70	-	-

Table 7-13. MIMO 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

	Freq [MHz]	q [MHz] Channel Detector		Cond	lucted Power [dBm]	Conducted Power Limit [dBm]	imit 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]	Liniat [GDin]	[ub]
Bandwidth)	5180	36	AVG	15.72	15.00	18.39	23.98	-5.59	-3.34	15.05	23.01	-7.96
÷	5200	40	AVG	17.98	17.57	20.79	23.98	-3.19	-3.34	17.45	23.01	-5.56
<u> </u>	5220	44	AVG	17.38	17.96	20.69	23.98	-3.29	-3.34	17.35	23.01	-5.66
Ĕ	5240	48	AVG	17.45	17.96	20.72	23.98	-3.26	-3.34	17.38	23.01	-5.63
9	5260	52	AVG	17.64	17.95	20.81	23.98	-3.17	-4.14	16.67	30.00	-13.33
	5280	56	AVG	17.95	17.21	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
¥	5300	60	AVG	17.96	17.83	20.91	23.98	-3.07	-4.14	16.77	30.00	-13.23
Σ	5320	64	AVG	16.19	16.94	19.59	23.98	-4.39	-4.14	15.45	30.00	-14.55
(20	5500	100	AVG	16.95	16.04	19.53	23.98	-4.45	-5.45	14.08	30.00	-15.92
	5600	120	AVG	17.98	17.52	20.77	23.98	-3.21	-5.45	15.32	-	-
¥	5620	124	AVG	17.99	17.91	20.96	23.98	-3.02	-5.45	15.51	-	-
(D	5720	144	AVG	17.96	17.43	20.71	23.98	-3.27	-5.45	15.26	30.00	-14.74
5	5745	149	AVG	17.98	17.73	20.87	30.00	-9.13	-4.84	16.03	-	-
	5785	157	AVG	17.86	17.39	20.64	30.00	-9.36	-4.84	15.80	-	-
	5825	165	AVG	17.04	17.99	20.55	30.00	-9.45	-4.84	15.71	-	-

Table 7-14. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 160 of 508
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	Freq [MHz]	Channel	Detector	Conc	ducted Power [dBm]		Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
=				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abin]	[GD]
÷	5180	36	AVG	15.41	14.86	18.15	23.98	-5.83	-3.34	14.81	23.01	-8.20
į	5200	40	AVG	17.96	17.65	20.82	23.98	-3.16	-3.34	17.48	23.01	-5.53
Bandwidth)	5220	44	AVG	17.45	17.87	20.68	23.98	-3.30	-3.34	17.34	23.01	-5.67
Ĕ	5240	48	AVG	17.49	17.98	20.75	23.98	-3.23	-3.34	17.41	23.01	-5.60
Ba Ba	5260	52	AVG	17.67	17.87	20.78	23.98	-3.20	-4.14	16.64	30.00	-13.36
N	5280	56	AVG	17.97	17.24	20.63	23.98	-3.35	-4.14	16.49	30.00	-13.51
Ï	5300	60	AVG	17.99	17.75	20.88	23.98	-3.10	-4.14	16.74	30.00	-13.26
Σ	5320	64	AVG	16.98	16.21	19.62	23.98	-4.36	-4.14	15.48	30.00	-14.52
(20MH;	5500	100	AVG	16.94	16.10	19.55	23.98	-4.43	-5.45	14.10	30.00	-15.90
	5600	120	AVG	17.98	17.43	20.72	23.98	-3.26	-5.45	15.27	-	-
Ŧ	5620	124	AVG	17.99	17.96	20.99	23.98	-2.99	-5.45	15.54	-	-
C)	5720	144	AVG	17.98	17.54	20.78	23.98	-3.20	-5.45	15.33	30.00	-14.67
5	5745	149	AVG	17.82	17.25	20.55	30.00	-9.45	-4.84	15.71	-	-
	5785	157	AVG	17.88	17.45	20.68	30.00	-9.32	-4.84	15.84	-	-
	5825	165	AVG	17.07	17.93	20.53	30.00	-9.47	-4.84	15.69	-	-

Table 7-15. MIMO 20MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Freq [MHz] Channel Detector		Cond	ducted Power [dBm]	Conducted Power Limit	imit 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]	[]		11
≐	5180	36	AVG	14.46	15.13	17.82	23.98	-6.16	-3.34	14.48	23.01	-8.53
j:	5200	40	AVG	17.98	17.55	20.78	23.98	-3.20	-3.34	17.44	23.01	-5.57
<u> </u>	5220	44	AVG	17.33	17.91	20.64	23.98	-3.34	-3.34	17.30	23.01	-5.71
andwidth	5240	48	AVG	17.45	17.96	20.72	23.98	-3.26	-3.34	17.38	23.01	-5.63
Ba	5260	52	AVG	17.66	17.98	20.83	23.98	-3.15	-4.14	16.69	30.00	-13.31
Z	5280	56	AVG	17.95	17.21	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
Î	5300	60	AVG	17.97	17.88	20.94	23.98	-3.04	-4.14	16.80	30.00	-13.20
(20MH)	5320	64	AVG	15.38	16.72	19.11	23.98	-4.87	-4.14	14.97	30.00	-15.03
20	5500	100	AVG	16.47	16.72	19.61	23.98	-4.37	-5.45	14.16	30.00	-15.84
	5600	120	AVG	17.98	17.52	20.77	23.98	-3.21	-5.45	15.32	-	-
Ž	5620	124	AVG	17.97	17.87	20.93	23.98	-3.05	-5.45	15.48	-	-
G	5720	144	AVG	17.86	17.98	20.93	23.98	-3.05	-5.45	15.48	30.00	-14.52
Ŋ	5745	149	AVG	17.81	17.26	20.55	30.00	-9.45	-4.84	15.71	-	-
	5785	157	AVG	17.83	17.59	20.72	30.00	-9.28	-4.84	15.88	-	-
	5825	165	AVG	17.04	17.94	20.52	30.00	-9.48	-4.84	15.68	-	-

Table 7-16. MIMO 20MHz BW 802.11ax (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Cond	ducted Power [dBm]	Conducted Power Limit	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]	[ub]
N C	5190	38	AVG	13.72	13.95	16.85	23.98	-7.13	-3.34	13.51	23.01	-9.50
투	5230	46	AVG	16.98	16.97	19.99	23.98	-3.99	-3.34	16.65	23.01	-6.36
o .≌	5270	54	AVG	16.93	16.42	19.69	23.98	-4.29	-4.14	15.55	30.00	-14.45
<u>4</u> ≽	5310	62	AVG	14.99	14.11	17.58	23.98	-6.40	-4.14	13.44	30.00	-16.56
2 2	5510	102	AVG	15.33	14.53	17.96	23.98	-6.02	-5.45	12.51	30.00	-17.49
다 Ba	5590	118	AVG	16.87	16.73	19.81	23.98	-4.17	-5.45	14.36	-	-
50 E	5630	126	AVG	16.74	16.07	19.43	23.98	-4.55	-5.45	13.98	-	-
	5710	142	AVG	16.98	16.63	19.82	23.98	-4.16	-5.45	14.37	30.00	-15.63
	5755	151	AVG	16.99	16.05	19.56	30.00	-10.44	-4.84	14.72	-	-
	5795	159	AVG	16.55	16.87	19.72	30.00	-10.28	-4.84	14.88	-	-

Table 7-17. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 464 of 500
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	Freq [MHz]	Channel Detector	Detector	Conc	lucted 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]	[uz.ii]		[0.5]
₽ ~	5190	38	AVG	13.93	13.12	16.55	23.98	-7.43	-3.34	13.21	23.01	-9.80
OMH	5230	46	AVG	16.96	16.98	19.98	23.98	-4.00	-3.34	16.64	23.01	-6.37
(40I wid	5270	54	AVG	16.84	16.41	19.64	23.98	-4.34	-4.14	15.50	30.00	-14.50
<u>4</u> ≯	5310	62	AVG	14.92	14.09	17.54	23.98	-6.44	-4.14	13.40	30.00	-16.60
ŊČ	5510	102	AVG	15.30	14.58	17.97	23.98	-6.01	-5.45	12.52	30.00	-17.48
유 Ba	5590	118	AVG	16.96	16.71	19.85	23.98	-4.13	-5.45	14.40	-	-
50 E	5630	126	AVG	16.86	16.04	19.48	23.98	-4.50	-5.45	14.03	-	-
	5710	142	AVG	16.99	16.66	19.84	23.98	-4.14	-5.45	14.39	30.00	-15.61
	5755	151	AVG	16.98	16.08	19.56	30.00	-10.44	-4.84	14.72	-	-
	5795	159	AVG	16.69	16.86	19.79	30.00	-10.21	-4.84	14.95	-	-

Table 7-18. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	Cond	lucted Power [dBm]	Conducted Power Limit	Conducted Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Linia (abin	[ub]
₽ <u></u>	5190	38	AVG	13.66	13.81	16.75	23.98	-7.23	-3.34	13.41	23.01	-9.60
투	5230	46	AVG	16.91	16.95	19.94	23.98	-4.04	-3.34	16.60	23.01	-6.41
o .≌	5270	54	AVG	16.79	16.31	19.57	23.98	-4.41	-4.14	15.43	30.00	-14.57
<u>4</u> §	5310	62	AVG	13.98	14.85	17.45	23.98	-6.53	-4.14	13.31	30.00	-16.69
<u>₽</u> ⊆	5510	102	AVG	14.39	15.22	17.84	23.98	-6.14	-5.45	12.39	30.00	-17.61
GF Ba	5590	118	AVG	16.77	16.59	19.69	23.98	-4.29	-5.45	14.24	•	-
50 E	5630	126	AVG	16.99	16.42	19.72	23.98	-4.26	-5.45	14.27	•	-
	5710	142	AVG	16.94	16.53	19.75	23.98	-4.23	-5.45	14.30	30.00	-15.70
	5755	151	AVG	16.97	16.02	19.53	30.00	-10.47	-4.84	14.69	1	-
	5795	159	AVG	16.54	16.81	19.69	30.00	-10.31	-4.84	14.85	1	-

Table 7-19. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

	Freq [MHz]	IHz] Channel	Detector	Cond	lucted Power [dBm]		Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
ξ (c				ANT1	Γ1 ANT2 MIMO	MIMO	[dBm]	[dB]	[dBi]	[]		[42]
oM j	5210	42	AVG	12.13	12.57	15.37	23.98	-8.61	-3.34	12.03	23.01	-10.98
<u>∞</u> <u>≥</u>	5290	58	AVG	12.87	13.08	15.99	23.98	-7.99	-4.14	11.85	30.00	-18.15
GHz Banc	5530	106	AVG	14.91	14.08	17.53	23.98	-6.45	-5.45	12.08	30.00	-17.92
5G B	5610	122	AVG	15.98	15.16	18.60	23.98	-5.38	-5.45	13.15	-	-
	5690	138	AVG	15.99	15.11	18.58	23.98	-5.40	-5.45	13.13	30.00	-16.87
	5775	155	AVG	15.98	15.07	18.56	30.00	-11.44	-4.84	13.72		-

Table 7-20. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz] Channel Detector		Detector	Conducted Power [dBm]				Power Margin Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]	
ž c				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Linia (abin)	[ub]
(80M Iwidtl	5210	42	AVG	12.12	12.66	15.41	23.98	-8.57	-3.34	12.07	23.01	-10.94
	5290	58	AVG	12.48	12.73	15.62	23.98	-8.36	-4.14	11.48	30.00	-18.52
Hz	5530	106	AVG	14.57	14.79	17.69	23.98	-6.29	-5.45	12.24	30.00	-17.76
5G B	5610	122	AVG	15.99	15.14	18.60	23.98	-5.38	-5.45	13.15	-	-
	5690	138	AVG	15.98	15.05	18.55	23.98	-5.43	-5.45	13.10	30.00	-16.90
	5775	155	AVG	15.93	15.04	18.52	30.00	-11.48	-4.84	13.68	-	-

Table 7-21. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION) SIMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 460 of 500
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SISO Antenna-1 Conducted Output Power Measurements - Q

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]
5180 5200			802.11a	802.11n	802.11ac	802.11ax	[dBm]	[dB]	[4.5.]	[42]		[0.5]
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 7-22. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Detector	IEEE	Transmission	Mode		Conducted Power Margin	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11n	802.11ac	802.11ax	[dBm]	[dB]	[ubi]	[ubiii]	Liniit [dbiii]	[ub]
Ž (5190	38	AVG	13.68	13.03	13.78	23.98	-10.30	-6.60	7.08	23.01	-15.93
북 壬	5230	46	AVG	16.89	16.80	16.80	23.98	-7.09	-6.60	10.29	23.01	-12.72
(40M) Iwidtl	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
GF Ba	5590	118	AVG	16.53	16.46	16.95	23.98	-7.45	-9.80	6.73	-	-
5G B	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 7-23. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power

N _	Freq [MHz] Chann		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]
MH,				802.11ac	802.11ax	[dBm]	[dB]	[]	[]		[]
(80MH Iwidth	5210	42	AVG	12.15	12.47	23.98	-11.83	-6.60	5.55	23.01	-17.46
	5290	58	AVG	12.98	12.67	23.98	-11.00	-8.10	4.88	30.00	-25.12
GHz Banc	5530	106	AVG	14.97	14.82	23.98	-9.01	-9.80	5.17	30.00	-24.83
5	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 7-24. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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MIMO Maximum Conducted Output Power Measurements - Q

	Freq [MHz]	Freq [MHz] Channel Detector		Conc	ducted Power [dBm]	Conducted Power Limit	imit Power Margin	Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
=				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Liniii (ubinj	[ub]
andwidth)	5180	36	AVG	15.85	15.67	18.77	23.98	-5.21	-3.34	15.43	23.01	-7.58
į:	5200	40	AVG	17.59	17.66	20.64	23.98	-3.34	-3.34	17.30	23.01	-5.71
<u> </u>	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
	5280	56	AVG	17.65	17.97	20.82	23.98	-3.16	-4.14	16.68	30.00	-13.32
¥	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	-	-
C	5720	144	AVG	17.72	17.54	20.64	23.98	-3.34	-5.45	15.19	30.00	-14.81
Ñ	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 7-25. 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]
=				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abin]	[ub]
Bandwidth)	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
<u> </u>	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
	5280	56	AVG	17.50	17.84	20.68	23.98	-3.30	-4.14	16.54	30.00	-13.46
HZ H	5300	60	AVG	17.65	17.81	20.74	23.98	-3.24	-4.14	16.60	30.00	-13.40
(20M	5320	64	AVG	16.62	16.92	19.78	23.98	-4.20	-4.14	15.64	30.00	-14.36
50	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	-	-
¥	5620	124	AVG	17.69	17.56	20.64	23.98	-3.34	-5.45	15.19	-	-
U U	5720	144	AVG	17.59	17.79	20.70	23.98	-3.28	-5.45	15.25	30.00	-14.75
Ŋ	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 7-26. MIMO 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Freq [MHz]	Channel	Detector	Conc	lucted Power [dBm]		Conducted Power Margin		Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
<u>~</u>				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Linia (abin)	[ub]
Ξ	5180	36	AVG	15.48	15.45	18.48	23.98	-5.50	-3.34	15.14	23.01	-7.87
j:	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
Bandwidth)	5240	48	AVG	17.52	17.61	20.58	23.98	-3.40	-3.34	17.24	23.01	-5.77
39	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
ΗZ	5300	60	AVG	17.78	17.88	20.84	23.98	-3.14	-4.14	16.70	30.00	-13.30
(20M	5320	64	AVG	16.95	16.98	19.98	23.98	-4.00	-4.14	15.84	30.00	-14.16
20	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	-	-
ΗZ	5620	124	AVG	17.64	17.59	20.63	23.98	-3.35	-5.45	15.18	-	-
(J	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 7-27. MIMO 20MHz BW 802.11ac (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	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Liniit [abin]	[GD]
andwidth)	5180	36	AVG	15.36	15.39	18.39	23.98	-5.59	-3.34	15.05	23.01	-7.96
÷	5200	40	AVG	17.64	17.99	20.83	23.98	-3.15	-3.34	17.49	23.01	-5.52
<u> </u>	5220	44	AVG	17.60	17.77	20.70	23.98	-3.28	-3.34	17.36	23.01	-5.65
Ĕ	5240	48	AVG	17.42	17.68	20.56	23.98	-3.42	-3.34	17.22	23.01	-5.79
Ва	5260	52	AVG	17.45	17.74	20.61	23.98	-3.37	-4.14	16.47	30.00	-13.53
Z	5280	56	AVG	17.50	17.94	20.74	23.98	-3.24	-4.14	16.60	30.00	-13.40
I	5300	60	AVG	17.66	17.83	20.76	23.98	-3.22	-4.14	16.62	30.00	-13.38
Σ	5320	64	AVG	16.94	16.76	19.86	23.98	-4.12	-4.14	15.72	30.00	-14.28
(20MI	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	-	-
<u>o</u>	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 7-28. MIMO 20MHz BW 802.11ax (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.	e.i.r.p. Margin [dB]
				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[42]		[02]
₽ œ	5190	38	AVG	13.68	13.79	16.75	23.98	-7.23	-3.34	13.41	23.01	-9.60
MH (#)	5230	46	AVG	16.89	16.67	19.79	23.98	-4.19	-3.34	16.45	23.01	-6.56
≃	5270	54	AVG	16.96	16.55	19.77	23.98	-4.21	-4.14	15.63	30.00	-14.37
4 ₹	5310	62	AVG	14.99	14.97	17.99	23.98	-5.99	-4.14	13.85	30.00	-16.15
7 2	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 7-29. MIMO 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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	Freq [MHz]	Channel	Channel Detector	Conducted Power [dBm]				Directional Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]	
				ANT1	ANT2	МІМО	[dBm]	[dB]	[dBi]	[ubiii]	Limit [dDin]	[dD]
HZ (q	5190	38	AVG	13.03	13.86	16.48	23.98	-7.50	-3.34	13.14	23.01	-9.87
OMH	5230	46	AVG	16.80	16.67	19.75	23.98	-4.23	-3.34	16.41	23.01	-6.60
<u>2</u>	5270	54	AVG	16.93	16.50	19.73	23.98	-4.25	-4.14	15.59	30.00	-14.41
(40 Iwic	5310	62	AVG	14.60	14.72	17.67	23.98	-6.31	-4.14	13.53	30.00	-16.47
Hz (5510	102	AVG	15.43	15.28	18.37	23.98	-5.61	-5.45	12.92	30.00	-17.08
	5590	118	AVG	16.46	16.92	19.71	23.98	-4.27	-5.45	14.26	-	-
5G B	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 7-30. MIMO 40MHz BW 802.11ac (UNII) Maximum Conducted Output Power

	Freq [MHz]	Channel	Channel Detector	Conducted 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	МІМО	[dBm]	[dB]	[dBi]	[ubiii]		[GD]
Ž (5190	38	AVG	13.78	13.92	16.86	23.98	-7.12	-3.34	13.52	23.01	-9.49
투	5230	46	AVG	16.80	16.51	19.67	23.98	-4.31	-3.34	16.33	23.01	-6.68
40MF width	5270	54	AVG	16.95	16.91	19.94	23.98	-4.04	-4.14	15.80	30.00	-14.20
(40 Iwic	5310	62	AVG	14.76	14.98	17.88	23.98	-6.10	-4.14	13.74	30.00	-16.26
Hz	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 7-31. MIMO 40MHz BW 802.11ax (UNII) Maximum Conducted Output Power

Ž (N Freq [MHz]		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	МІМО	[dBm]	[dB]	[dBi]	[]		[]
(80MI width	5210	42	AVG	12.15	12.46	15.32	23.98	-8.66	-3.34	11.98	23.01	-11.03
Hz (and\	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
5	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 7-32. MIMO 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

Z (N Freq [MHz]	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]
dth)				ANT1	ANT2	MIMO	[dBm]	[dB]	[dBi]	[42]	Z [ubiii]	[us]	
(80MH width	5210	42	AVG	12.47	12.42	15.46	23.98	-8.52	-3.34	12.12	23.01	-10.89	
	5290	58	AVG	12.67	12.76	15.73	23.98	-8.25	-4.14	11.59	30.00	-18.41	
GHz Banc	5530	106	AVG	14.82	14.65	17.75	23.98	-6.23	-5.45	12.30	30.00	-17.70	
Ž –	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 7-33. MIMO 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 802.11n (20MHz BW) mode, the average conducted output power was measured to be 15.72 dBm for Antenna-1 and 15.00 dBm for Antenna-2.

(15.72 dBm + 15.00 dBm) = (37.33 mW + 31.62 mW) = 68.95 mW = 18.39 dBm

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 18.39 dBm with directional gain of -6.80 dBi.

$$18.39 \text{ dBm} + -6.80 \text{ dBi} = 11.59 \text{ dBm}$$

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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 - 5.25 GHz, 5.25 - 5.35 GHz, 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.

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 > 2 x (span/RBW)
- 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

None

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O GOOM POTEOT			1/00000104/0040



SISO Antenna-1 Power Spectral Density Measurements - N

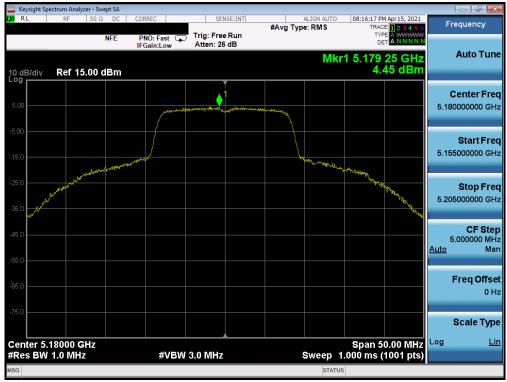
					Measured	Max Power	
	Frequency	Channel	802.11 Mode	Data Rate [Mbps]		Density	Margin
	[MHz]	No.			[dBm]	[dBm/MHz]	[dB]
	5180	36	а	6	4.45	11.0	-6.55
	5200	40	а	6	4.35	11.0	-6.65
	5240	48	а	6	4.24	11.0	-6.76
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.31	11.0	-6.69
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	4.58	11.0	-6.42
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.84	11.0	-6.16
-	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.70	11.0	-6.30
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	4.05	11.0	-6.95
Ä	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	4.12	11.0	-6.88
	5190	38	n (40MHz)	13.5/15 (MCS0)	0.88	11.0	-10.12
	5230	46	n (40MHz)	13.5/15 (MCS0)	0.96	11.0	-10.04
	5190	38	ax (40MHz)	13.5/15 (MCS0)	0.31	11.0	-10.69
	5230	46	ax (40MHz)	13.5/15 (MCS0)	0.23	11.0	-10.77
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-2.15	11.0	-13.15
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.04	11.0	-13.04
	5260	52	a	6	4.75	11.0	-6.25
	5280	56	а	6	5.03	11.0	-5.97
	5320	64	а	6	5.48	11.0	-5.52
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	4.96	11.0	-6.04
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	5.05	11.0	-5.95
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.28	11.0	-5.72
∢	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.02	11.0	-5.98
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	4.60	11.0	-6.40
3ar	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	5.14	11.0	-5.86
_	5270	54	n (40MHz)	13.5/15 (MCS0)	1.55	11.0	-9.45
	5310	62	n (40MHz)	13.5/15 (MCS0)	1.90	11.0	-9.10
	5270	54	ax (40MHz)	13.5/15 (MCS0)	0.67	11.0	-10.33
	5310	62	ax (40MHz)	13.5/15 (MCS0)	1.74	11.0	-9.26
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-0.30	11.0	-11.30
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-0.94	11.0	-11.94
	5500	100	ax (ooivii iz)	6	4.36	11.0	-6.64
	5600	120	a	6	5.04	11.0	-5.96
	5720	144	a	6	5.05	11.0	-5.95
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.09	11.0	-6.91
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.82	11.0	-6.18
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.33	11.0	-6.67
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	4.35	11.0	-6.75
	5600	120	· · · · · · · · ·	·	4.23	11.0	
		144	ax (20MHz) ax (20MHz)	6.5/7.2 (MCS0) 6.5/7.2 (MCS0)			-6.50 -6.32
O	5720 5510	102	n (40MHz)	13.5/15 (MCS0)	4.68 1.28	11.0 11.0	-6.32 -9.72
Band 2C			` ′	13.5/15 (MCS0)			_
3an	5590	118	n (40MHz)		1.41	11.0	-9.59 -9.45
ш	5710	142	n (40MHz)	13.5/15 (MCS0)	1.55	11.0	-9.45
	5510	102	ax (40MHz)	13.5/15 (MCS0)	0.23	11.0	-10.77
	5590	118	ax (40MHz)	13.5/15 (MCS0)	0.78	11.0	-10.22
	5710	142	ax (40MHz)	13.5/15 (MCS0)	0.87	11.0	-10.13
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-2.18	11.0	-13.18
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-2.28	11.0	-13.28
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.74	11.0	-15.74
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-2.22	11.0	-13.22
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.77	11.0	-13.77
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-5.11	11.0	-16.11

Table 7-34. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1

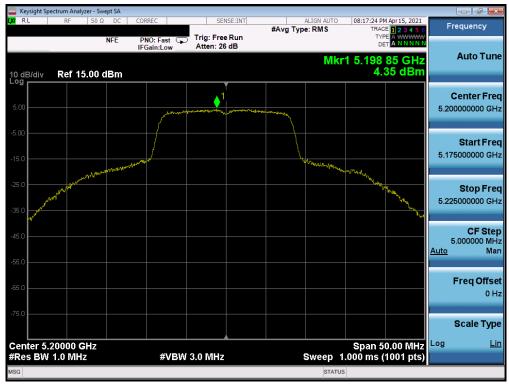
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 460 of 500
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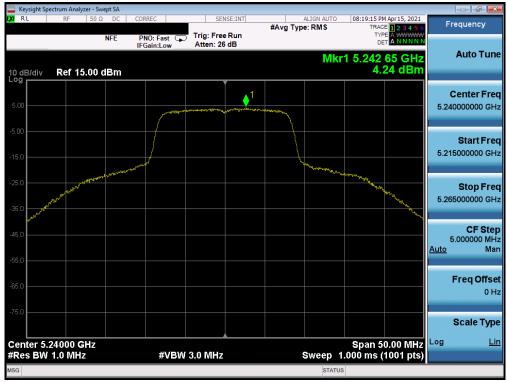
Plot 7-265. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 36)



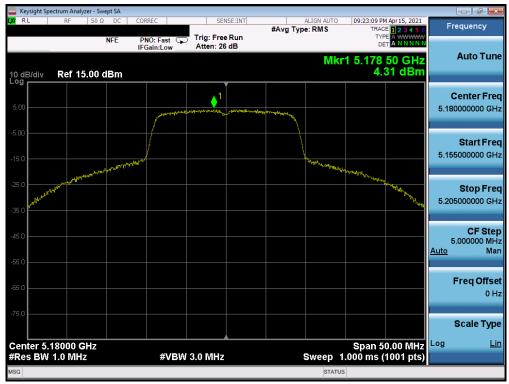
Plot 7-266. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogg 470 of 500	
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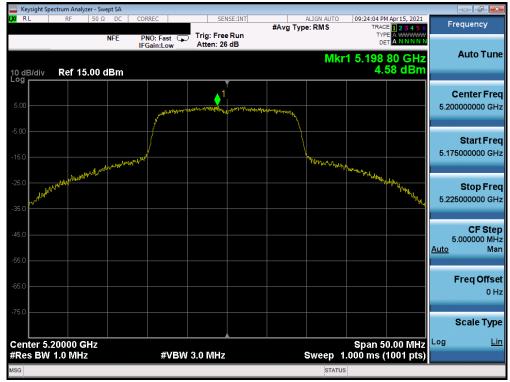
Plot 7-267. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



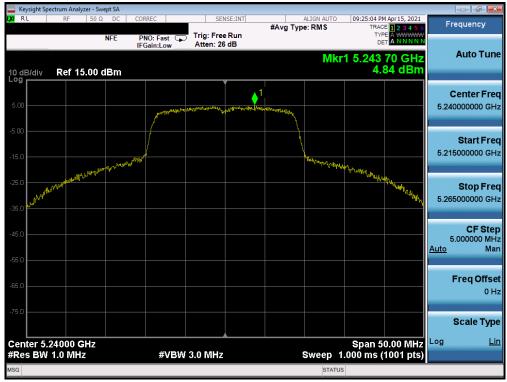
Plot 7-268. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-269. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



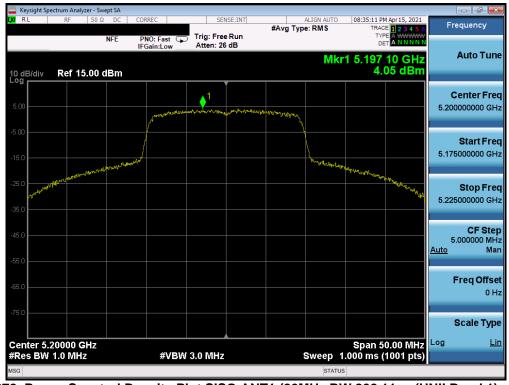
Plot 7-270. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	NG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 170 of 500
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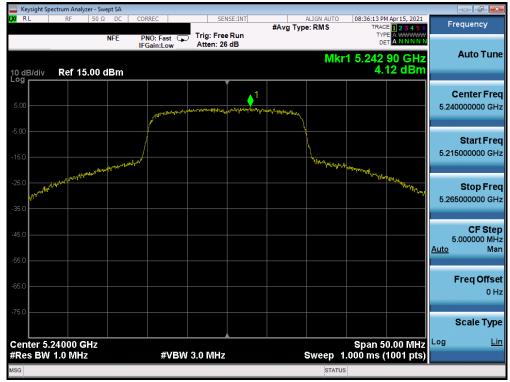
Plot 7-271. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



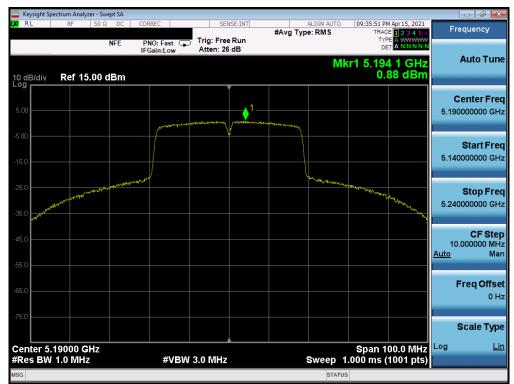
Plot 7-272. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-273. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



Plot 7-274. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 174 of E00
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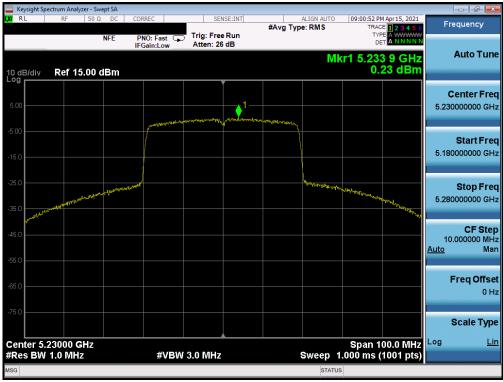
Plot 7-275. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



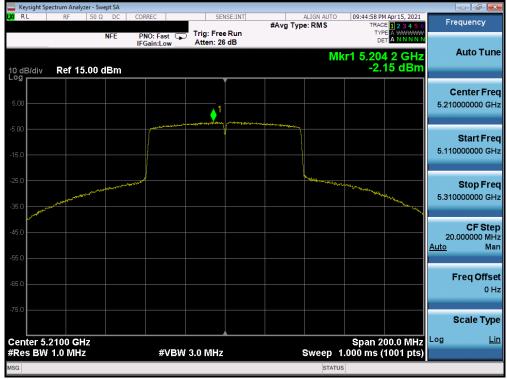
Plot 7-276. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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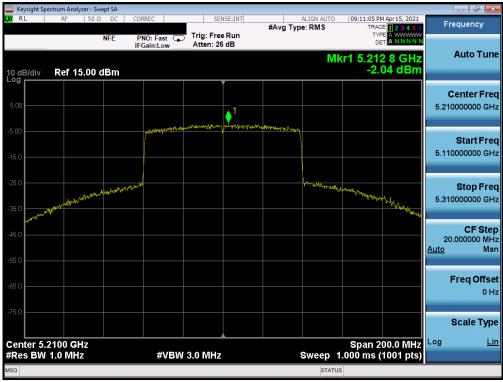
Plot 7-277. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



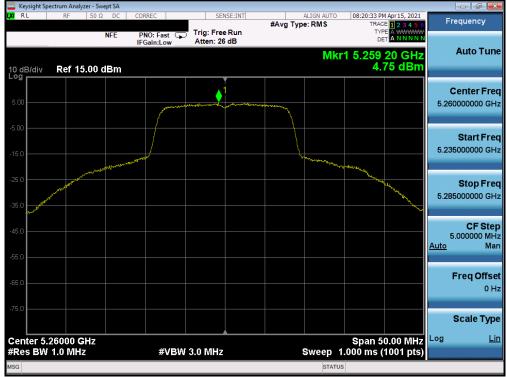
Plot 7-278. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 176 of 500
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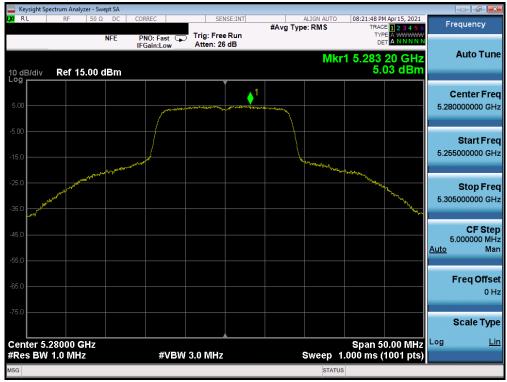
Plot 7-279. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



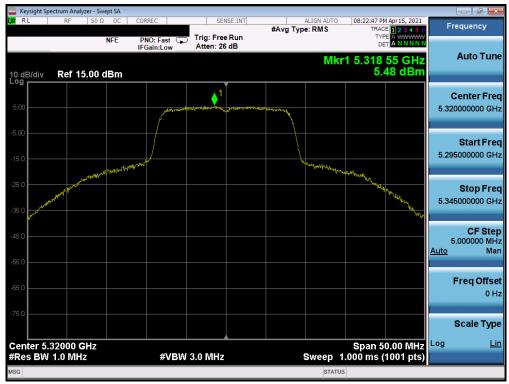
Plot 7-280. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 177 of 500
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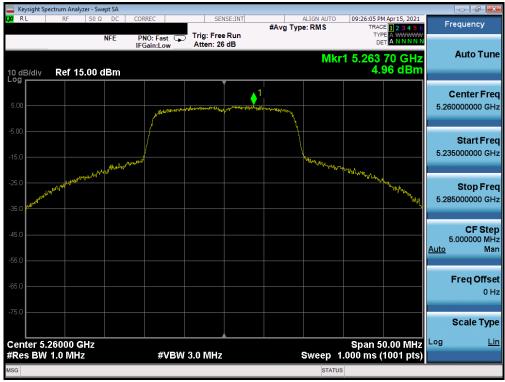
Plot 7-281. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



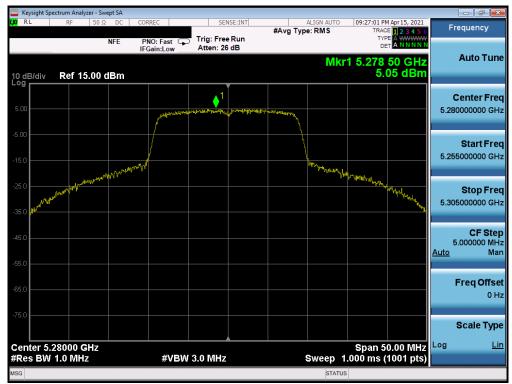
Plot 7-282. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 170 of 500
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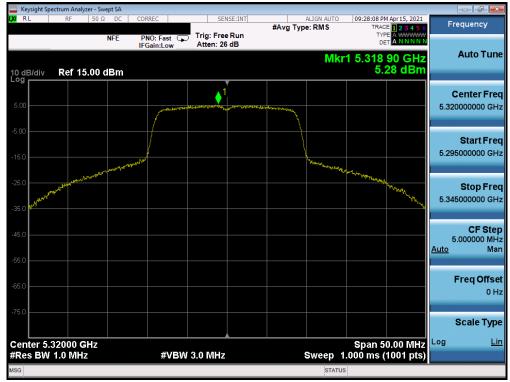
Plot 7-283. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



Plot 7-284. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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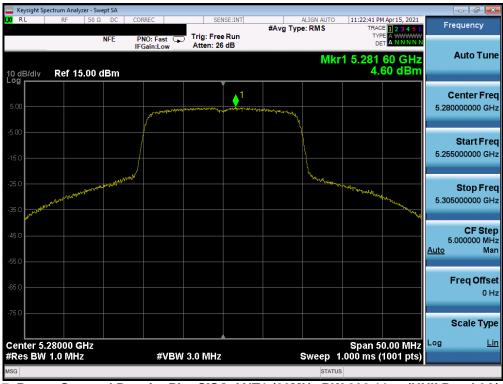
Plot 7-285. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



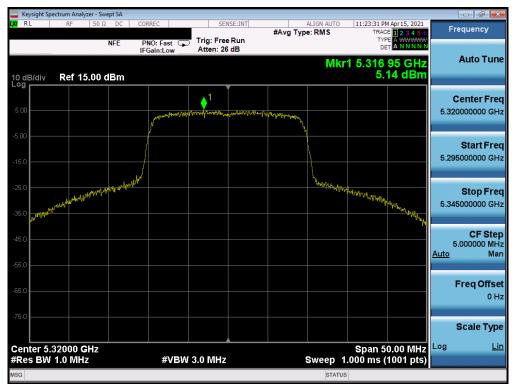
Plot 7-286. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-287. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



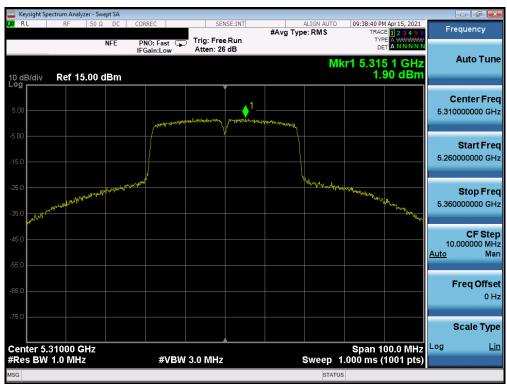
Plot 7-288. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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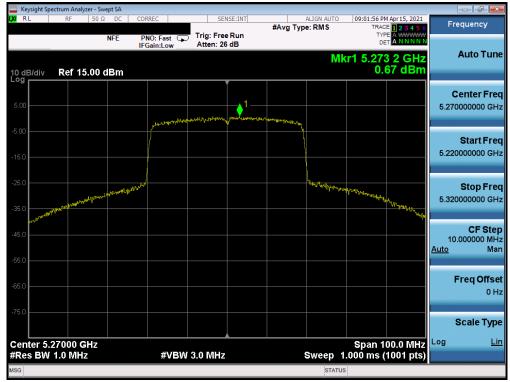
Plot 7-289. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-290. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 102 of 500
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Plot 7-291. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



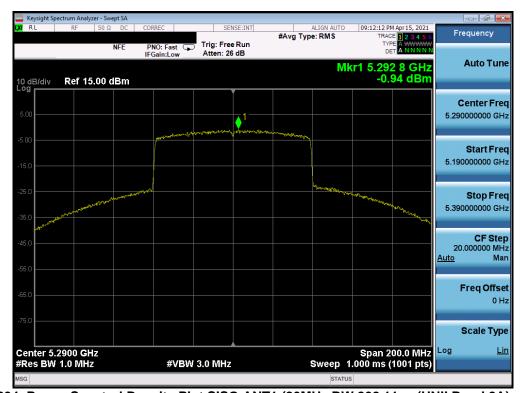
Plot 7-292. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 192 of 509
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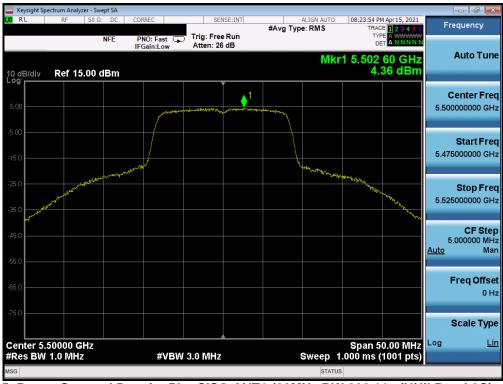
Plot 7-293. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



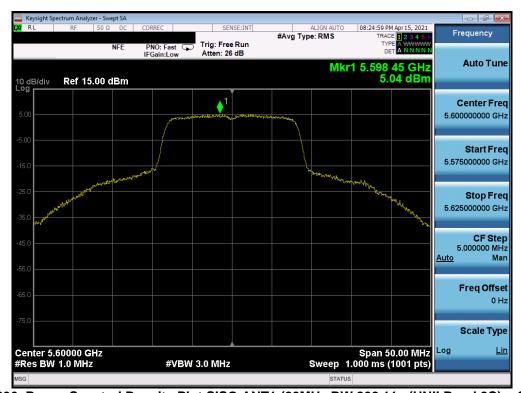
Plot 7-294. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 194 of 500
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Plot 7-295. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



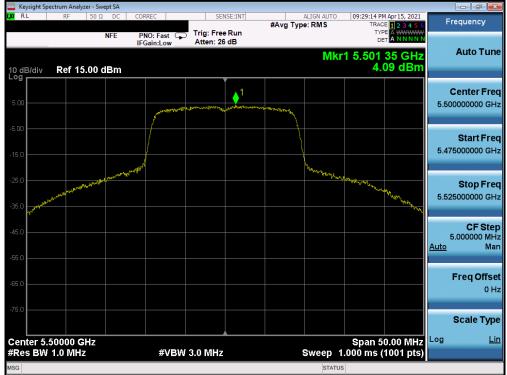
Plot 7-296. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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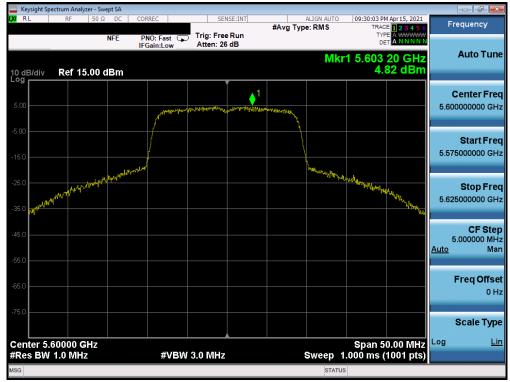
Plot 7-297. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



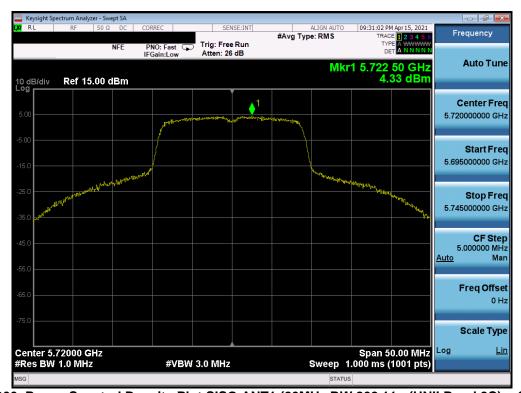
Plot 7-298. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 100 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 186 of 508
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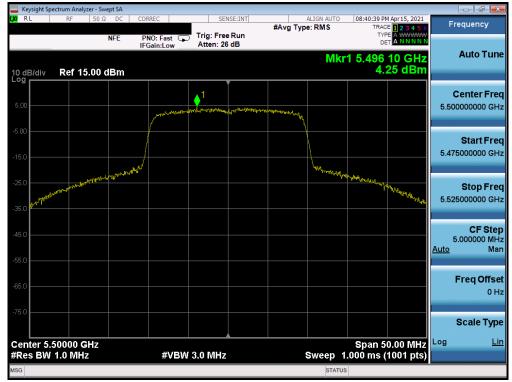
Plot 7-299. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



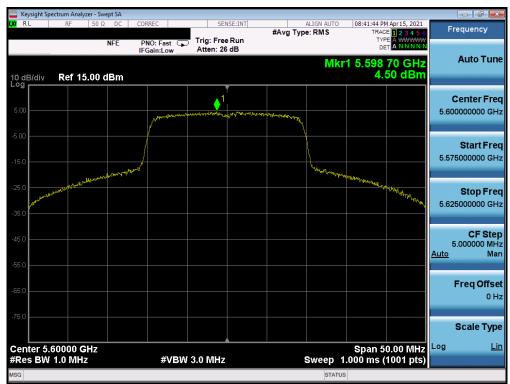
Plot 7-300. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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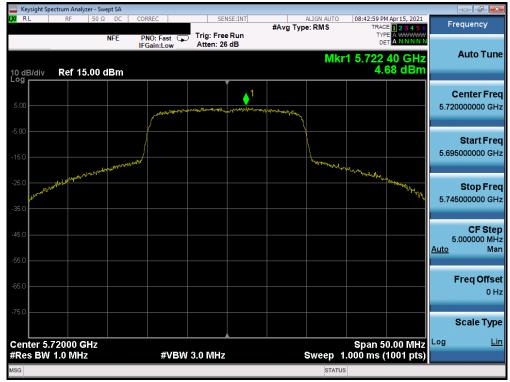
Plot 7-301. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



Plot 7-302. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	NG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 100 of 500
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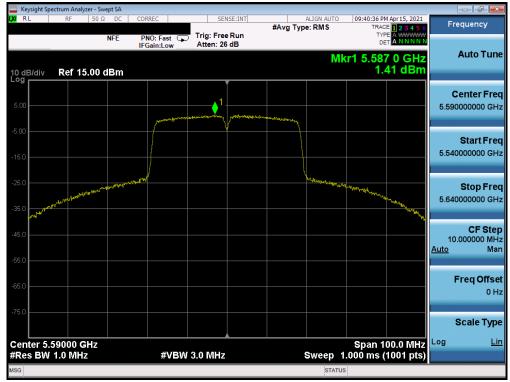
Plot 7-303. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



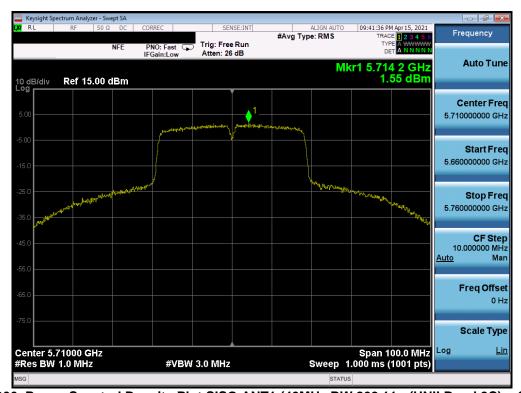
Plot 7-304. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 500
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Plot 7-305. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



Plot 7-306. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 509
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Plot 7-307. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



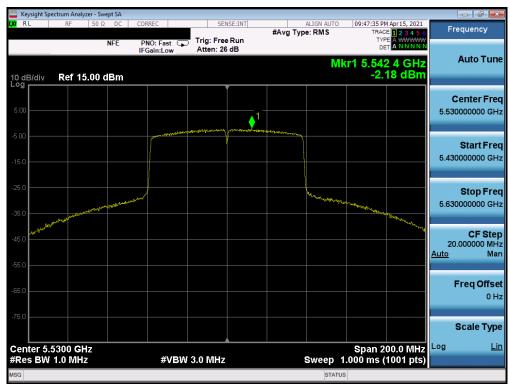
Plot 7-308. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 404 of 500
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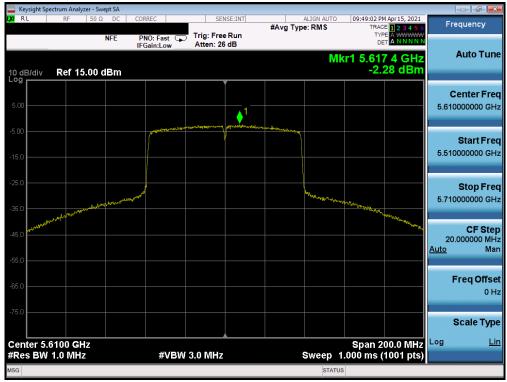
Plot 7-309. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



Plot 7-310. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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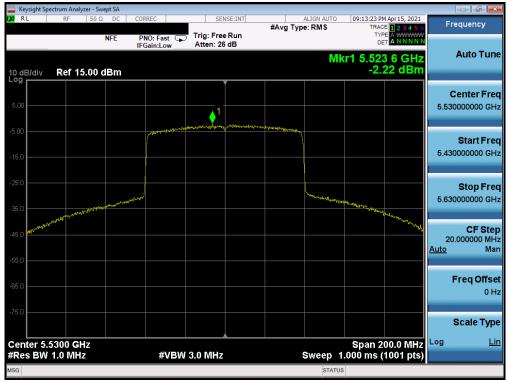
Plot 7-311. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



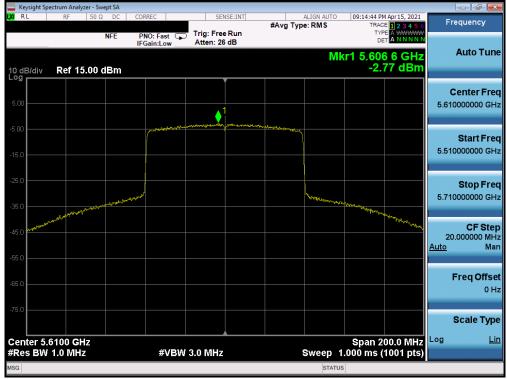
Plot 7-312. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	ING	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 402 of 500
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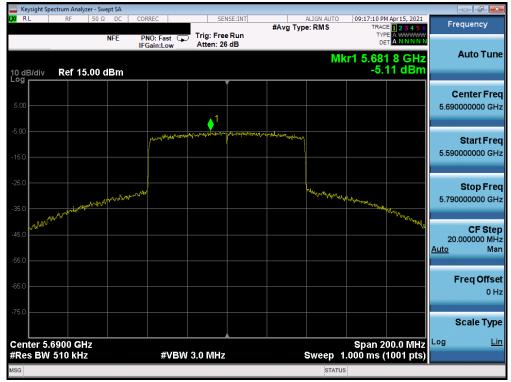
Plot 7-313. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-314. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 404 of 500
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Plot 7-315. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711B	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	2.33	30.0	-27.67
	5785	157	а	6	2.38	30.0	-27.62
	5825	165	а	6	2.98	30.0	-27.02
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	2.52	30.0	-27.48
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	2.58	30.0	-27.42
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	2.94	30.0	-27.06
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	1.77	30.0	-28.23
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	1.85	30.0	-28.15
ĕ	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	2.06	30.0	-27.94
	5755	151	n (40MHz)	13.5/15 (MCS0)	-0.88	30.0	-30.88
	5795	159	n (40MHz)	13.5/15 (MCS0)	-1.16	30.0	-31.16
	5755	151	ax (40MHz)	13.5/15 (MCS0)	-1.75	30.0	-31.75
	5795	159	ax (40MHz)	13.5/15 (MCS0)	-1.75	30.0	-31.75
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.54	30.0	-30.54
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.98	30.0	-30.98

Table 7-35. Band 3 Conducted Power Spectral Density Measurements SISO ANT1



Plot 7-316. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-317. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)



Plot 7-318. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 197 of 508
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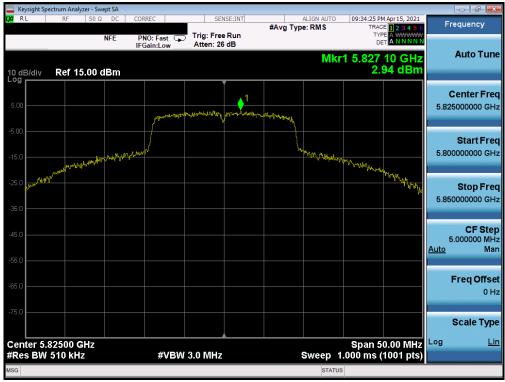
Plot 7-319. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



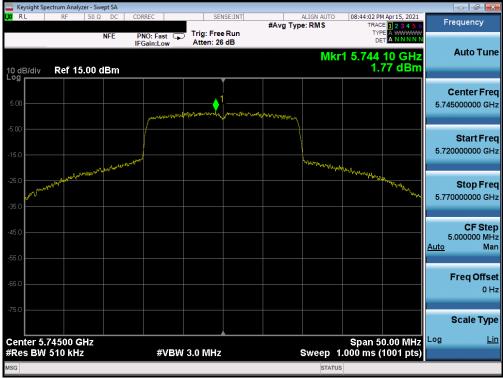
Plot 7-320. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-321. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



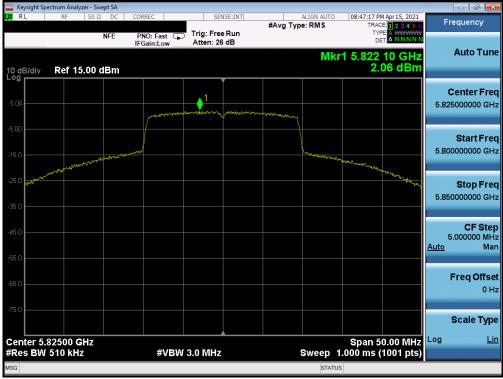
Plot 7-322. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	G	Approved by: echnical Manager
Test Report S/N:	Test Dates:	EUT Type:		2000 400 of E00
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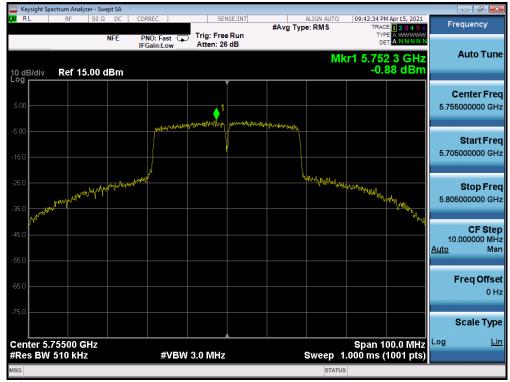
Plot 7-323. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



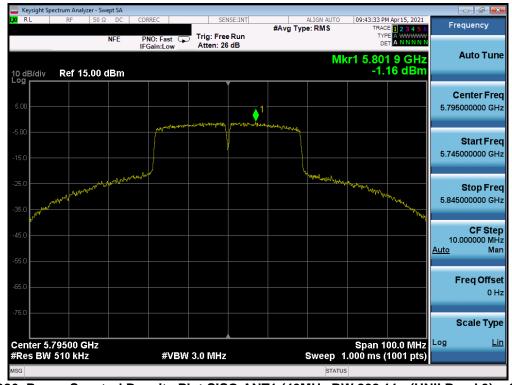
Plot 7-324. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 200 of 500
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Plot 7-325. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



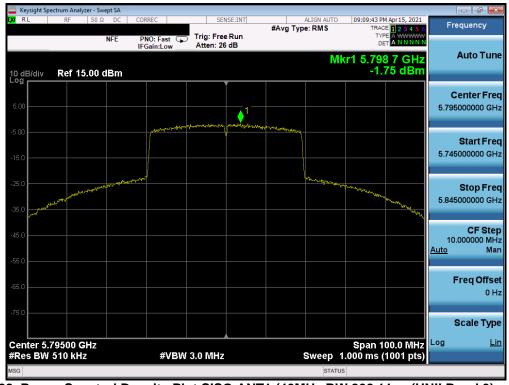
Plot 7-326. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 204 of 500
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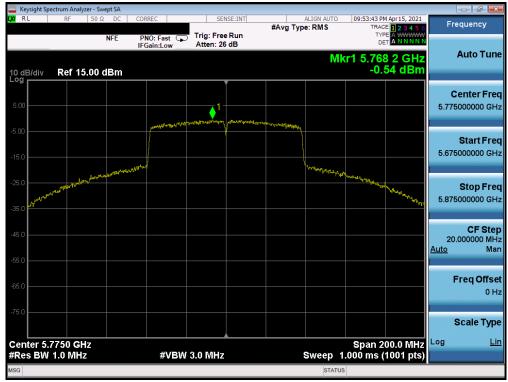
Plot 7-327. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



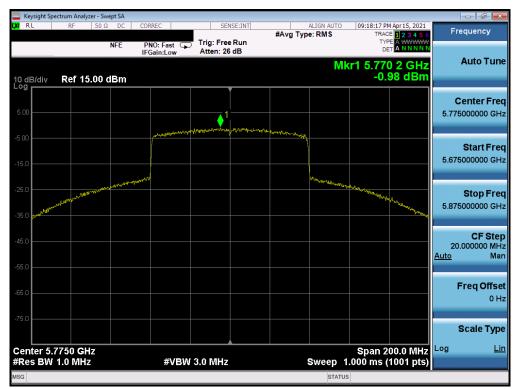
Plot 7-328. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 202 of 500
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Plot 7-329. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-330. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155) Summed MIMO Power Spectral Density Measurements - N

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 202 of 509
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	Frequency	Channal			Antenna-1	Antenna-2	Summed	Max Power	Morain
	[MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	_	_	MIMO Power	Density	Margin [dB]
					[dBm]	[dBm]	Density [dBm]	[dBm/MHz]	
	5180	36	а	6	6.94	6.87	9.92	11.0	-1.08
	5200	40	а	6	6.95	7.16	10.07	11.0	-0.93
	5240	48	a (aat # L)	6	6.71	6.57	9.65	11.0	-1.35
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.61	6.77	9.70	11.0	-1.30
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.49	7.05	9.79	11.0	-1.21
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	7.46	6.19	9.88	11.0	-1.12
Ď 1	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	6.88	6.53	9.72	11.0	-1.28
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	7.27	6.53	9.93	11.0	-1.07
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.26	6.30	9.82	11.0	-1.18
	5190	38	n (40MHz)	13.5/15 (MCS0)	3.58	2.90	6.26	11.0	-4.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	4.08	2.33	6.30	11.0	-4.70
	5190	38	ax (40MHz)	13.5/15 (MCS0)	3.48	2.36	5.97	11.0	-5.03
	5230	46	ax (40MHz)	13.5/15 (MCS0)	3.93	2.44	6.26	11.0	-4.74
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-0.89	-1.58	1.79	11.0	-9.21
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-0.78	-1.86	1.72	11.0	-9.28
	5260	52	а	6	7.97	6.43	10.28	11.0	-0.72
	5280	56	а	6	7.48	6.70	10.12	11.0	-0.88
	5320	64	a (221411)	6	8.19	6.73	10.53	11.0	-0.47
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	7.76	6.03	9.99	11.0	-1.01
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.95	6.31	10.22	11.0	-0.78
,	5320	64	n (20MHz)	6.5/7.2 (MCS0)	8.12	6.17	10.26	11.0	-0.74
75	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	7.61	5.97	9.88	11.0	-1.12
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	6.81	5.68	9.29	11.0	-1.71
- Ф	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	8.12	6.49	10.39	11.0	-0.61
	5270	54	n (40MHz)	13.5/15 (MCS0)	1.14	1.37	4.27	11.0	-6.73
	5310	62	n (40MHz)	13.5/15 (MCS0)	-0.28	0.03	2.89	11.0	-8.11
	5270	54	ax (40MHz)	13.5/15 (MCS0)	1.95	2.23	5.10	11.0	-5.90
	5310	62	ax (40MHz)	13.5/15 (MCS0)	-0.29	0.01	2.87	11.0	-8.13
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.05	-2.03	0.97	11.0	-10.03
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.88	-1.88	1.13	11.0	-9.87
	5500	100	а	6	7.50	6.49	10.03	11.0	-0.97
	5600	120	а	6	7.01	7.80	10.43	11.0	-0.57
	5720	144	a (2014) ->	6	6.45	7.52	10.03	11.0	-0.97
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	7.16	6.37	9.79	11.0	-1.21
	5600	120 144	n (20MHz) n (20MHz)	6.5/7.2 (MCS0)	6.23	7.04	9.66	11.0	-1.34 -1.42
	5720	100	,	6.5/7.2 (MCS0)	6.37	6.76	9.58 9.56	11.0	
	5500 5600	120	ax (20MHz)	6.5/7.2 (MCS0)	6.91	6.15		11.0	-1.44
	5720	144	ax (20MHz) ax (20MHz)	6.5/7.2 (MCS0) 6.5/7.2 (MCS0)	6.11 6.04	6.77 6.74	9.46 9.41	11.0 11.0	-1.54 -1.59
O	5510	102	n (40MHz)	13.5/15 (MCS0)	2.86	2.05	5.48	11.0	-5.52
d 2C	5590	118	n (40MHz)	13.5/15 (MCS0)	2.39	1.74	5.09	11.0	-5.91
Band	5710	142	n (40MHz)	13.5/15 (MCS0)	2.39	2.53	5.40	11.0	-5.60
ш	5510	102	ax (40MHz)	13.5/15 (MCS0)	3.30	2.39	5.88	11.0	-5.12
	5590	118	ax (40MHz)	13.5/15 (MCS0)	2.60	2.39	5.68	11.0	-5.12
	5710	142	ax (40MHz)	13.5/15 (MCS0)	2.88	2.73	5.89	11.0	-5.32 -5.11
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.65	-1.81	1.28	11.0	-9.72
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.84	-1.64	1.27	11.0	-9.72
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-1.50	-1.82	1.35	11.0	-9.73
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.69	-1.80	1.27	11.0	-9.03
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-1.39	-0.89	1.88	11.0	-9.12
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-4.52	-4.67	-1.58	11.0	-12.58
				2C MIMO Con					

Table 7-36. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMF711B	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]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	а	6	6.67	6.72	9.71	30.0	-20.29
	5785	157	а	6	7.21	6.77	10.01	30.0	-19.99
	5825	165	а	6	6.75	6.62	9.70	30.0	-20.30
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.42	6.87	9.66	30.0	-20.34
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.56	5.89	9.25	30.0	-20.75
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.54	6.87	9.72	30.0	-20.28
3	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	6.35	6.66	9.52	30.0	-20.48
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	6.66	6.08	9.39	30.0	-20.61
Ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	6.88	6.40	9.66	30.0	-20.34
	5755	151	n (40MHz)	13.5/15 (MCS0)	3.00	2.43	5.73	30.0	-24.27
	5795	159	n (40MHz)	13.5/15 (MCS0)	-1.45	-0.60	2.01	30.0	-27.99
	5755	151	ax (40MHz)	13.5/15 (MCS0)	2.65	2.10	5.39	30.0	-24.61
	5795	159	ax (40MHz)	13.5/15 (MCS0)	3.24	2.27	5.79	30.0	-24.21
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.93	-2.14	1.52	30.0	-28.48
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	0.23	-0.06	3.10	30.0	-26.90

Table 7-37. Band 3 MIMO Conducted Power Spectral Density Measurements

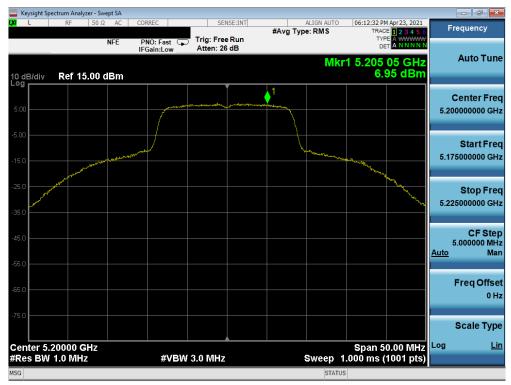
FCC ID: A3LSMF711B	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 205 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 205 of 508
O COOL BOTTOT			110000010110010



MIMO Antenna-1 Band 1, 2A, 2C Power Spectral Density Measurements - N



Plot 7-331. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 36)

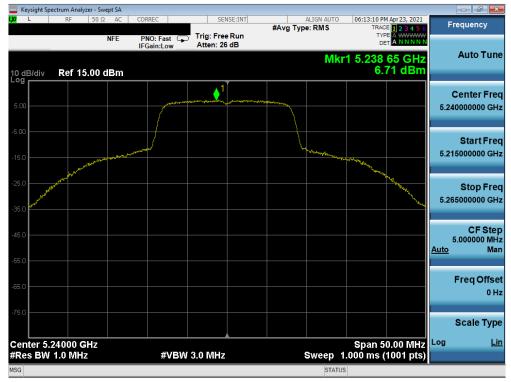


Plot 7-332. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

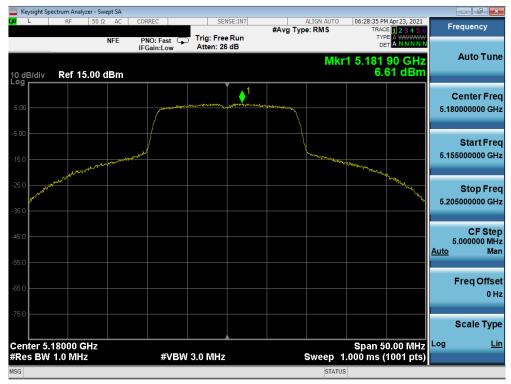
FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 206 of 508
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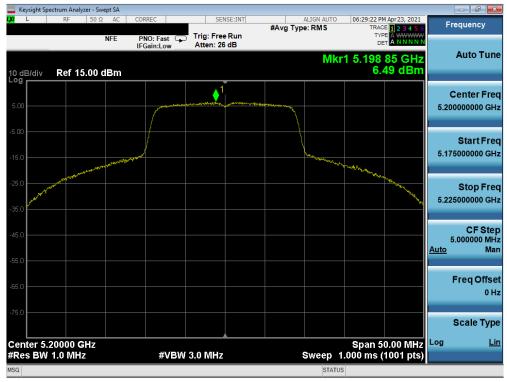
Plot 7-333. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



Plot 7-334. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 207 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 207 of 508
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Plot 7-335. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



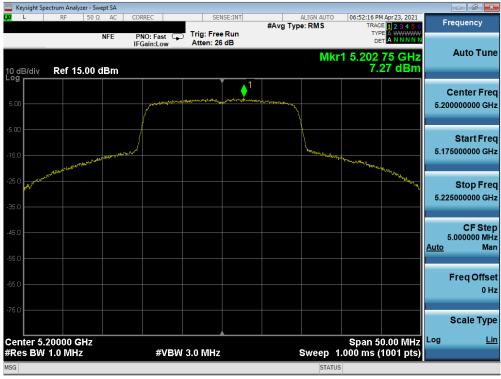
Plot 7-336. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 200 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 208 of 508
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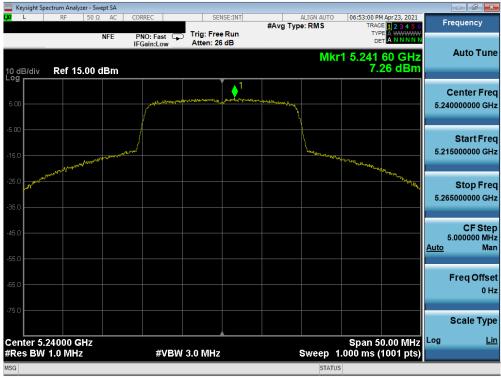
Plot 7-337. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



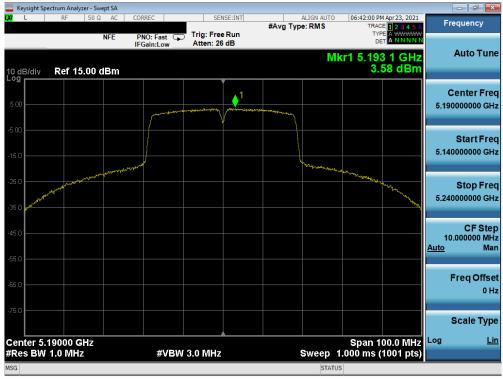
Plot 7-338. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 200 of 500
1M2104130035-12.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 209 of 508
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Plot 7-339. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



Plot 7-340. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dama 240 of 500
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