

Plot 7-227. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 122)



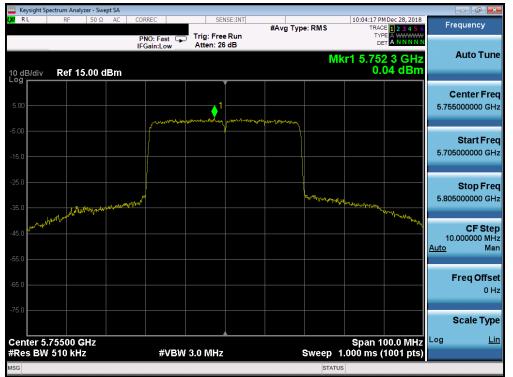
Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
3	5755	151	ax (40MHz)	484T	MCS0	0.04	30.00	-29.96
Band	5795	159	ax (40MHz)	484T	MCS0	0.26	30.00	-29.74
ä	5775	155	ax (80MHz)	484T	MCS0	2.05	30.00	-27.95

Table 7-77. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)



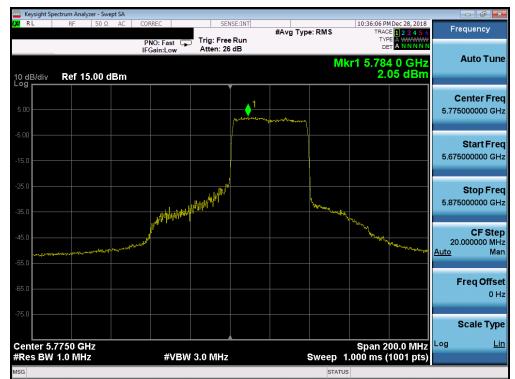
Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



Plot 7-231. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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## SISO Antenna-1 Power Spectral Density Measurements (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.55	11.00	-16.55
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-4.34	11.00	-15.34
2C	5530	106	ax (80MHz)	996T	MCS0	-5.80	11.00	-16.80
	5610	122	ax (80MHz)	996T	MCS0	-2.18	11.00	-13.18
Band	5690	138	ax (80MHz)	996T	MCS0	-2.34	11.00	-13.34

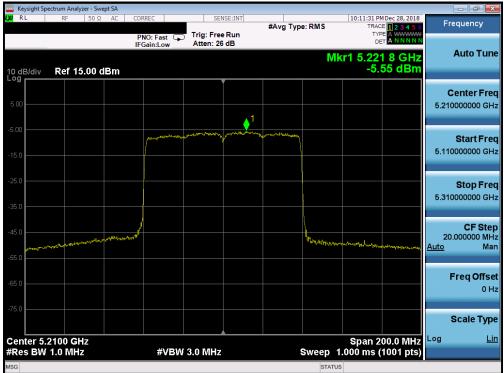
 Table 7-78. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.55	-7.66	-13.21	10.0	-23.21

Table 7-79. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 996 Tones)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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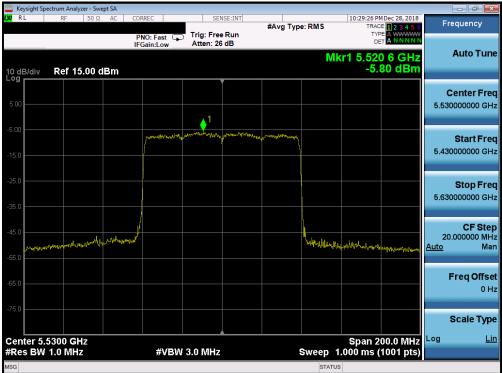
Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)



Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



Plot 7-235. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	-1.35	30.00	-31.35

 Table 7-80. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (996 Tones)



Plot 7-237. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 192 of 510
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## SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	8.75	11.00	-2.25
Ļ	5200	40	ax (20MHz)	26T	MCS0	9.16	11.00	-1.84
, pr	5240	48	ax (20MHz)	26T	MCS0	8.04	11.00	-2.96
Band	5190	38	ax (40MHz)	26T	MCS0	7.99	11.00	-3.01
_	5230	46	ax (40MHz)	26T	MCS0	8.18	11.00	-2.82
	5210	42	ax (80MHz)	26T	MCS0	8.30	11.00	-2.70
	5260	52	ax (20MHz)	26T	MCS0	8.96	11.00	-2.04
∢	5280	56	ax (20MHz)	26T	MCS0	7.76	11.00	-3.24
d 2	5320	64	ax (20MHz)	26T	MCS0	8.06	11.00	-2.94
Band 2A	5270	54	ax (40MHz)	26T	MCS0	8.17	11.00	-2.83
ш	5310	62	ax (40MHz)	26T	MCS0	8.31	11.00	-2.69
	5290	58	ax (80MHz)	26T	MCS0	8.76	11.00	-2.24
	5500	100	ax (20MHz)	26T	MCS0	8.69	11.00	-2.31
	5600	120	ax (20MHz)	26T	MCS0	8.51	11.00	-2.49
	5720	144	ax (20MHz)	26T	MCS0	8.91	11.00	-2.09
2C	5510	102	ax (40MHz)	26T	MCS0	8.21	11.00	-2.79
Bnad	5590	118	ax (40MHz)	26T	MCS0	8.60	11.00	-2.40
Bn	5710	142	ax (40MHz)	26T	MCS0	6.48	11.00	-4.52
	5530	106	ax (80MHz)	26T	MCS0	7.54	11.00	-3.46
	5610	122	ax (80MHz)	26T	MCS0	8.07	11.00	-2.93
	5690	138	ax (80MHz)	26T	MCS0	6.30	11.00	-4.70

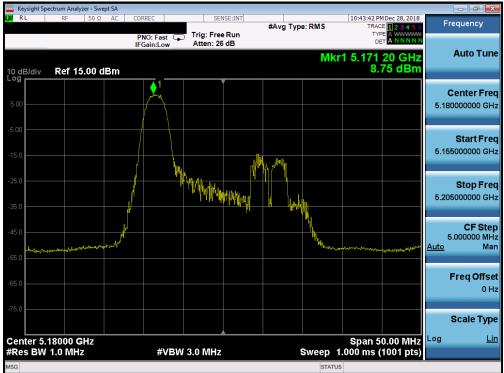
Table 7-81. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

	Frequen cy [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	8.75	-7.68	1.07	10.0	-8.93
-	5200	40	ax (20MHz)	26T	MCS0	9.16	-7.68	1.48	10.0	-8.52
	5240	48	ax (20MHz)	26T	MCS0	8.04	-7.38	0.66	10.0	-9.34
Band	5190	38	ax (40MHz)	26T	MCS0	7.99	-7.68	0.31	10.0	-9.69
-	5230	46	ax (40MHz)	26T	MCS0	8.18	-7.38	0.80	10.0	-9.20
	5210	42	ax (80MHz)	26T	MCS0	8.30	-7.68	0.62	10.0	-9.38

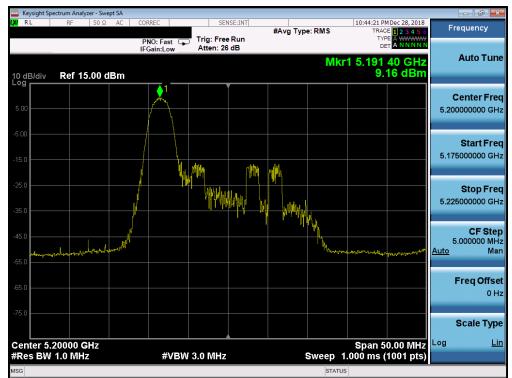
Table 7-82. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 26 Tones)

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Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)



Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

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Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



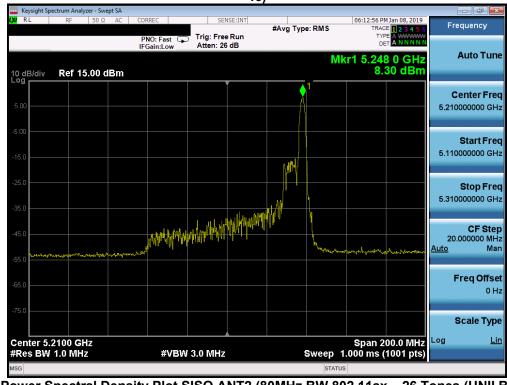
Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

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Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



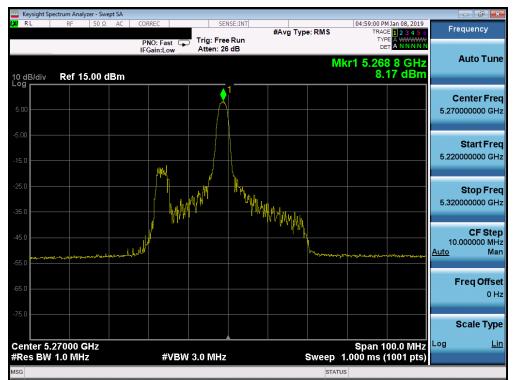
Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 197 of 510
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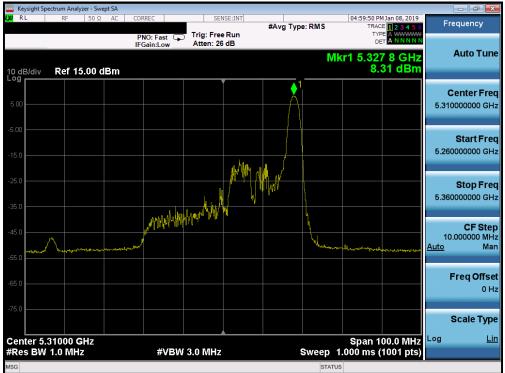
Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



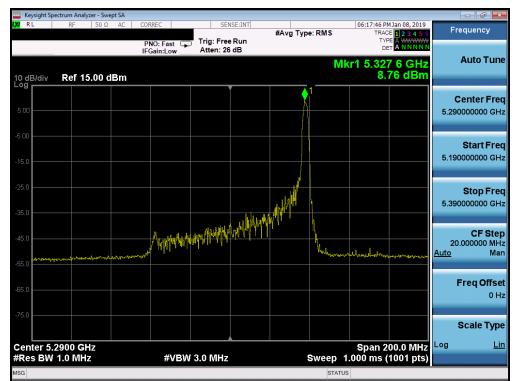
Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)



Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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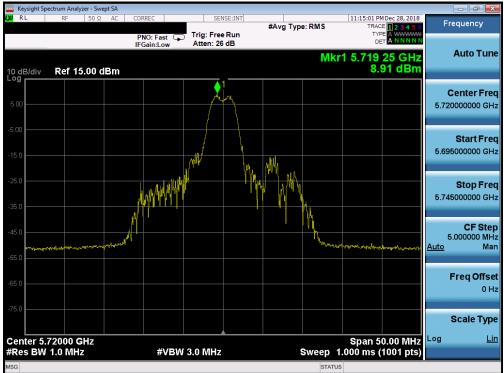
Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)



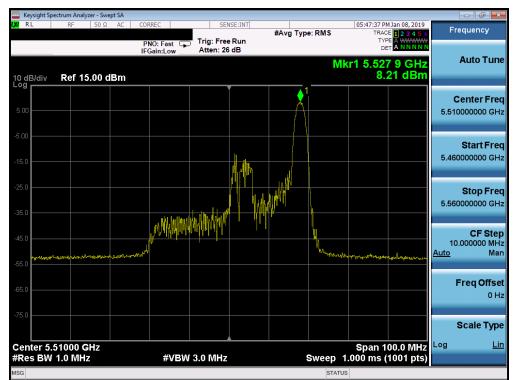
Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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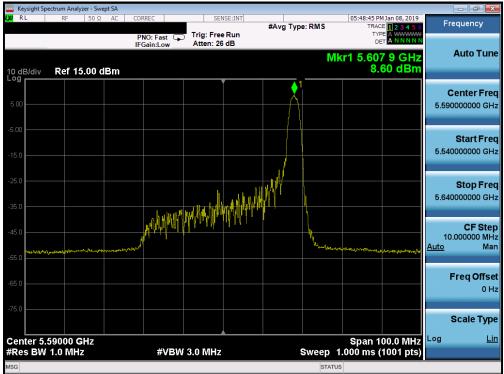
Plot 7-252. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



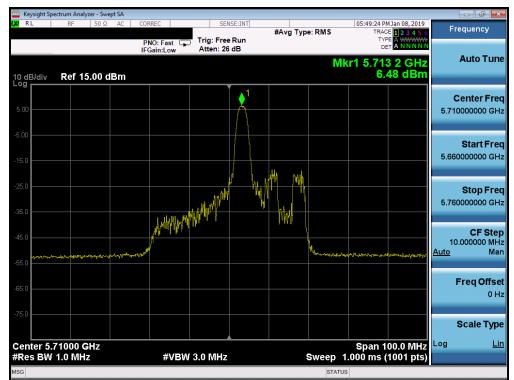
Plot 7-253. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-254. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-255. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

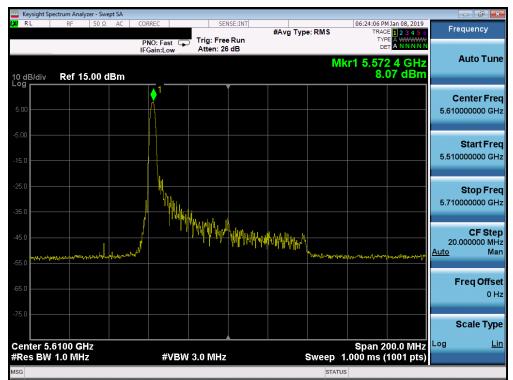
FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Sp	pectrum Analyzer	- Swept SA								
X/IRL	RF 5	i0 Ω AC	CORREC		NSE:INT	#Avg Typ	e: RMS	TRAC	4 Jan 08, 2019 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div	Ref 15.0	0 dBm	PNO: Fast G IFGain:Low	Atten: 26			Mł	(r1 5.49)	2 2 GHz 54 dBm	Auto Tune
5.00										Center Free 5.530000000 GH:
-5.00			hall de la							<b>Start Free</b> 5.430000000 GH:
-25.0			··· 970	1 1						<b>Stop Free</b> 5.630000000 GH:
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-75.0 Center 5.	.5300 GHz							Span 2	00.0 MHz	Scale Type
	1.0 MHz		#VB\	V 3.0 MHz			Sweep 1	.000 ms (	1001 pts)	
MSG							STATUS	5		

Plot 7-256. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-257. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

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Plot 7-258. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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_		Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
		5745	149	ax (20MHz)	26T	MCS0	6.24	30.00	-23.76
	8	5785	157	ax (20MHz)	26T	MCS0	6.70	30.00	-23.30
		5825	165	ax (20MHz)	26T	MCS0	6.45	30.00	-23.55
	Band	5755	151	ax (40MHz)	26T	MCS0	5.88	30.00	-24.12
	_	5795	159	ax (40MHz)	26T	MCS0	6.34	30.00	-23.66
		5775	155	ax (80MHz)	26T	MCS0	8.91	30.00	-21.09

Table 7-83. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)



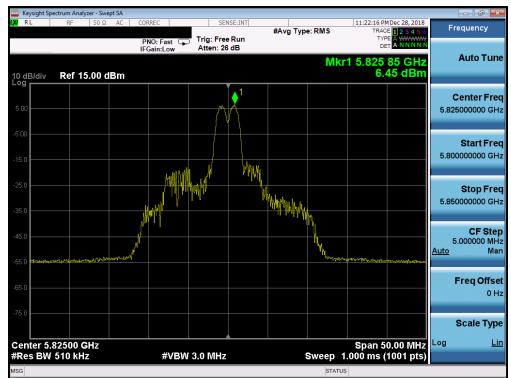
Plot 7-259. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

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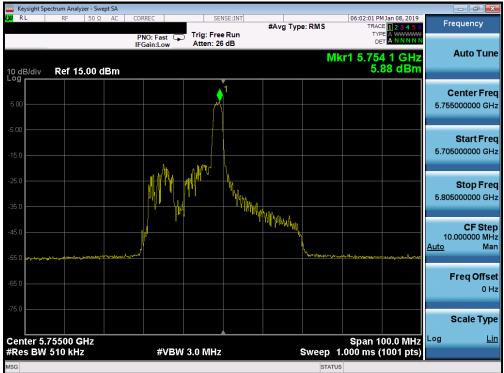
Plot 7-260. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)



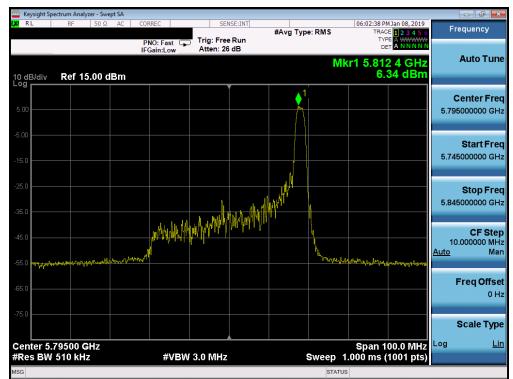
Plot 7-261. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

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Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-263. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 109 of 510
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## SISO Antenna-2 Power Spectral Density Measurements (52 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	52T	MCS0	8.04	11.00	-2.96
-	5200	40	ax (20MHz)	52T	MCS0	8.04	11.00	-2.96
, pr	5240	48	ax (20MHz)	52T	MCS0	7.91	11.00	-3.09
Band	5190	38	ax (40MHz)	52T	MCS0	7.75	11.00	-3.25
_	5230	46	ax (40MHz)	52T	MCS0	8.09	11.00	-2.91
	5210	42	ax (80MHz)	52T	MCS0	8.16	11.00	-2.84
٩	5260	52	ax (20MHz)	52T	MCS0	8.04	11.00	-2.96
	5280	56	ax (20MHz)	52T	MCS0	7.68	11.00	-3.32
d 2	5320	64	ax (20MHz)	52T	MCS0	8.34	11.00	-2.66
Band 2A	5270	54	ax (40MHz)	52T	MCS0	7.98	11.00	-3.02
Ξ	5310	62	ax (40MHz)	52T	MCS0	7.94	11.00	-3.06
	5290	58	ax (80MHz)	52T	MCS0	8.17	11.00	-2.83
	5500	100	ax (20MHz)	52T	MCS0	8.32	11.00	-2.68
	5600	120	ax (20MHz)	52T	MCS0	8.74	11.00	-2.26
	5720	144	ax (20MHz)	52T	MCS0	8.63	11.00	-2.37
2C	5510	102	ax (40MHz)	52T	MCS0	8.39	11.00	-2.61
Bnad	5590	118	ax (40MHz)	52T	MCS0	8.33	11.00	-2.67
Bn	5710	142	ax (40MHz)	52T	MCS0	8.06	11.00	-2.94
	5530	106	ax (80MHz)	52T	MCS0	7.91	11.00	-3.09
	5610	122	ax (80MHz)	52T	MCS0	7.87	11.00	-3.13
	5690	138	ax (80MHz)	52T	MCS0	8.21	11.00	-2.79

Table 7-84. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (52 Tones)

	Frequen cy [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	52T	MCS0	8.04	-7.68	0.36	10.0	-9.64
	5200	40	ax (20MHz)	52T	MCS0	8.04	-7.68	0.36	10.0	-9.64
1 pc	5240	48	ax (20MHz)	52T	MCS0	7.91	-7.38	0.53	10.0	-9.47
Band	5190	38	ax (40MHz)	52T	MCS0	7.75	-7.68	0.07	10.0	-9.93
-	5230	46	ax (40MHz)	52T	MCS0	8.09	-7.38	0.71	10.0	-9.29
	5210	42	ax (80MHz)	52T	MCS0	8.16	-7.68	0.48	10.0	-9.52

Table 7-85. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 52 Tones)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-265. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 36)



Plot 7-266. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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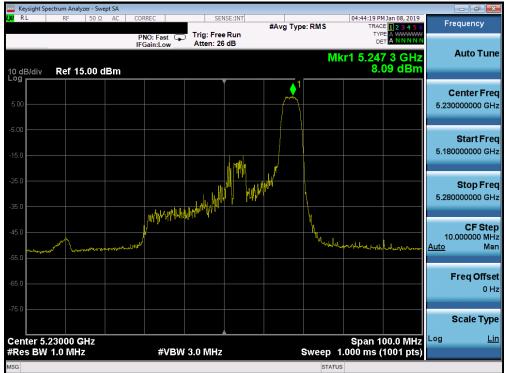
Plot 7-267. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)



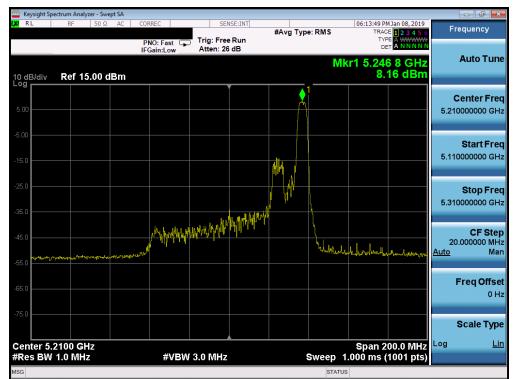
Plot 7-268. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-269. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 52 Tones (UNII Band 1) - Ch. 46)



Plot 7-270. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 52 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-271. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 52 Tones (UNII Band 2A) - Ch. 52)



Plot 7-272. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 52 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-273. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)



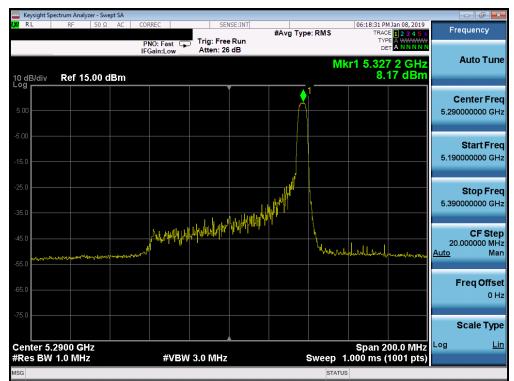
Plot 7-274. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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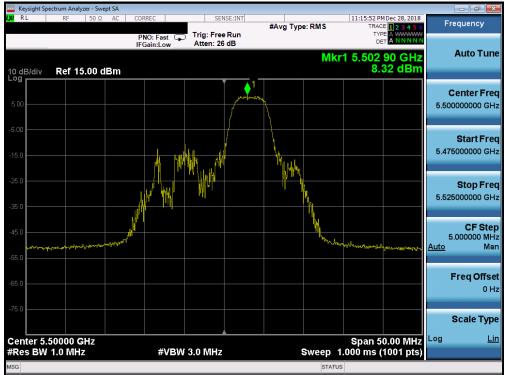
Plot 7-275. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)



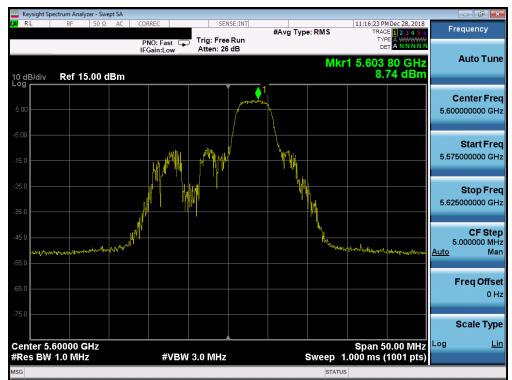
Plot 7-276. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-277. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)



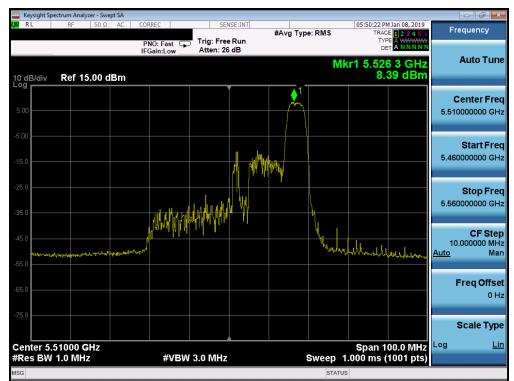
Plot 7-278. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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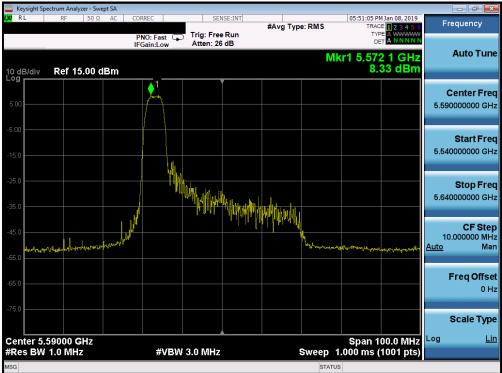
Plot 7-279. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)



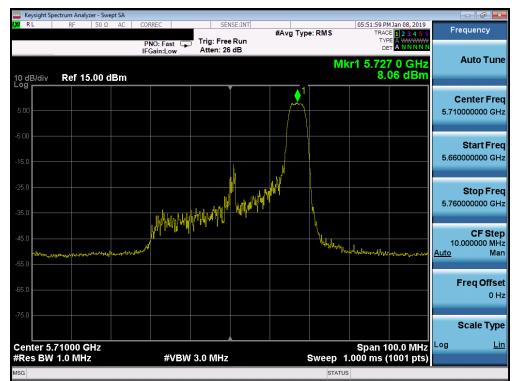
Plot 7-280. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-281. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 52 Tones (UNII Band 2C) - Ch. 118)

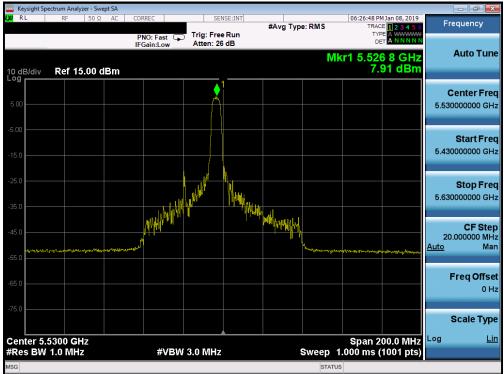


Plot 7-282. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 52 Tones (UNII Band 2C) - Ch. 142)

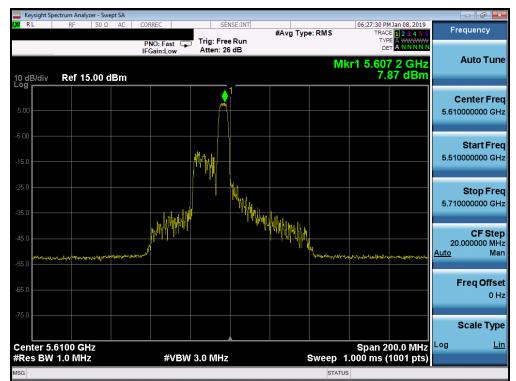
FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 208 of 510
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Plot 7-283. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 52 Tones (UNII Band 2C) - Ch. 106)



Plot 7-284. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 52 Tones (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-285. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	52T	MCS0	5.18	30.00	-24.82
<i>с</i>	5785	157	ax (20MHz)	52T	MCS0	5.72	30.00	-24.28
	5825	165	ax (20MHz)	52T	MCS0	5.49	30.00	-24.51
Band	5755	151	ax (40MHz)	52T	MCS0	4.85	30.00	-25.15
	5795	159	ax (40MHz)	52T	MCS0	5.87	30.00	-24.13
	5775	155	ax (80MHz)	52T	MCS0	9.00	30.00	-21.00

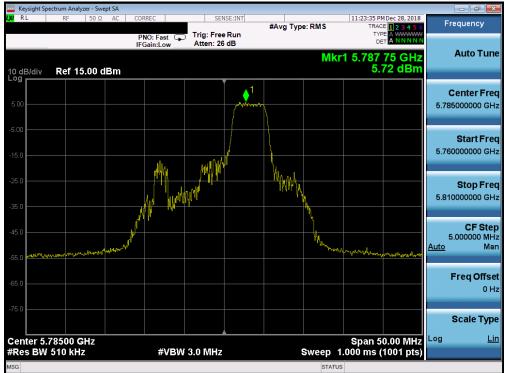
Table 7-86. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (52 Tones)



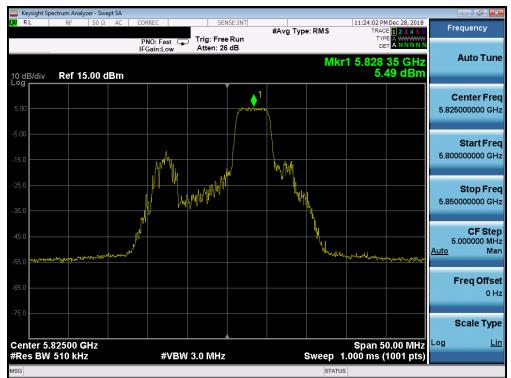
Plot 7-286. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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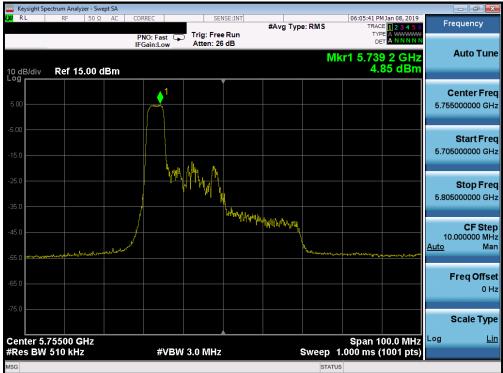
Plot 7-287. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)



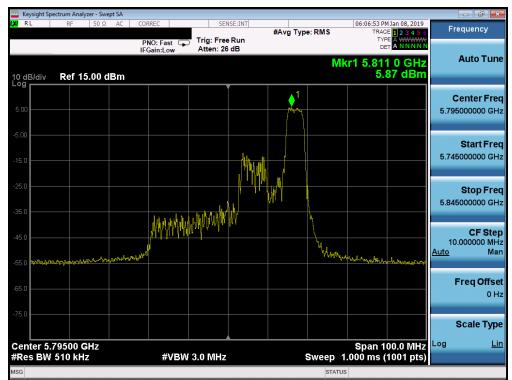
Plot 7-288. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Daga 212 of 510	
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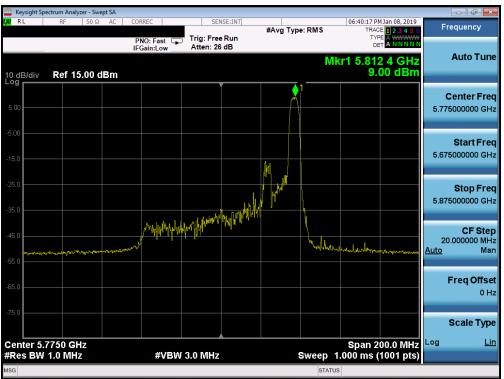
Plot 7-289. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)



Plot 7-290. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-291. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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## SISO Antenna-2 Power Spectral Density Measurements (106 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	106T	MCS0	6.87	11.00	-4.13
-	5200	40	ax (20MHz)	106T	MCS0	7.20	11.00	-3.80
, p	5240	48	ax (20MHz)	106T	MCS0	7.05	11.00	-3.95
Band	5190	38	ax (40MHz)	106T	MCS0	6.89	11.00	-4.11
_	5230	46	ax (40MHz)	106T	MCS0	6.76	11.00	-4.24
	5210	42	ax (80MHz)	106T	MCS0	7.23	11.00	-3.77
	5260	52	ax (20MHz)	106T	MCS0	7.03	11.00	-3.97
∢	5280	56	ax (20MHz)	106T	MCS0	7.14	11.00	-3.86
d 2	5320	64	ax (20MHz)	106T	MCS0	7.26	11.00	-3.74
Band 2A	5270	54	ax (40MHz)	106T	MCS0	6.87	11.00	-4.13
ш	5310	62	ax (40MHz)	106T	MCS0	7.06	11.00	-3.94
	5290	58	ax (80MHz)	106T	MCS0	7.25	11.00	-3.75
	5500	100	ax (20MHz)	106T	MCS0	7.16	11.00	-3.84
	5600	120	ax (20MHz)	106T	MCS0	7.58	11.00	-3.42
	5720	144	ax (20MHz)	106T	MCS0	6.78	11.00	-4.22
2C	5510	102	ax (40MHz)	106T	MCS0	7.06	11.00	-3.94
Bnad	5590	118	ax (40MHz)	106T	MCS0	7.68	11.00	-3.32
Bn	5710	142	ax (40MHz)	106T	MCS0	7.62	11.00	-3.38
	5530	106	ax (80MHz)	106T	MCS0	7.19	11.00	-3.81
	5610	122	ax (80MHz)	106T	MCS0	7.41	11.00	-3.59
	5690	138	ax (80MHz)	106T	MCS0	7.50	11.00	-3.50

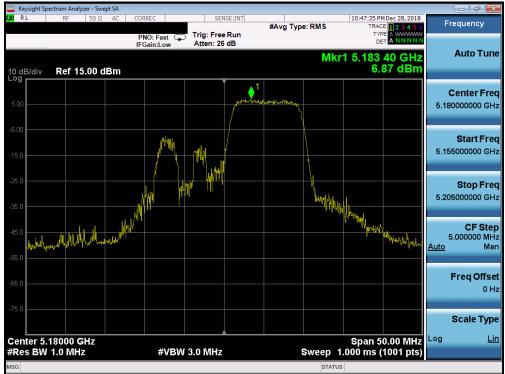
Table 7-87. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (106 Tones)

	Frequen cy [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	106T	MCS0	6.87	-7.68	-0.81	10.0	-10.81
-	5200	40	ax (20MHz)	106T	MCS0	7.20	-7.68	-0.48	10.0	-10.48
	5240	48	ax (20MHz)	106T	MCS0	7.05	-7.38	-0.33	10.0	-10.33
Band	5190	38	ax (40MHz)	106T	MCS0	6.89	-7.68	-0.79	10.0	-10.79
-	5230	46	ax (40MHz)	106T	MCS0	6.76	-7.38	-0.62	10.0	-10.62
	5210	42	ax (80MHz)	106T	MCS0	7.23	-7.68	-0.45	10.0	-10.45

Table 7-88. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 106 Tones)

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Plot 7-292. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 36)



Plot 7-293. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 40)

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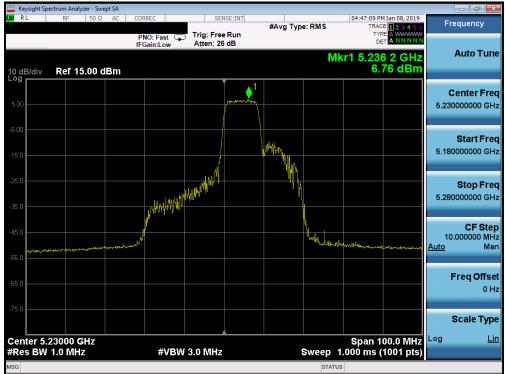
Plot 7-294. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 48)



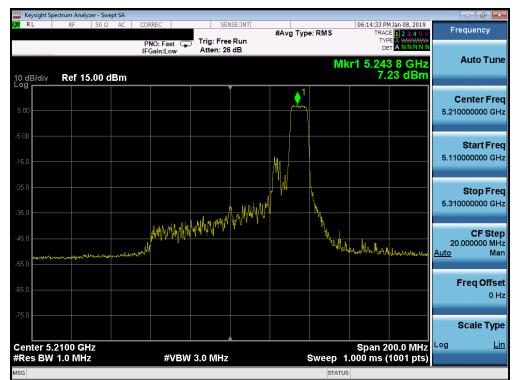
Plot 7-295. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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1M1811260212-15.A3L	11/9/2018 - 1/22/2019	Portable Handset		Page 217 of 519	
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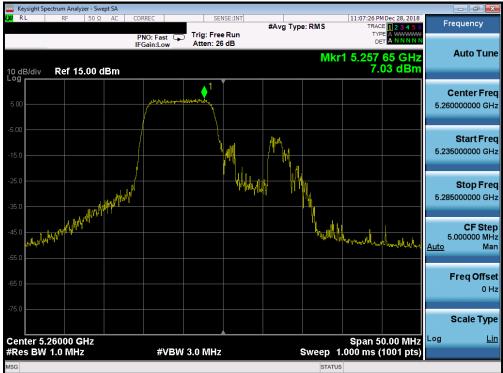
Plot 7-296. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 46)



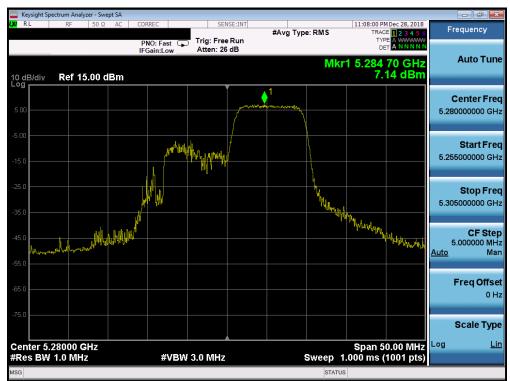
Plot 7-297. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 219 of 510
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Plot 7-298. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 52)



Plot 7-299. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 210 of 510	
1M1811260212-15.A3L	11/9/2018 - 1/22/2019	Portable Handset		Page 219 of 519	
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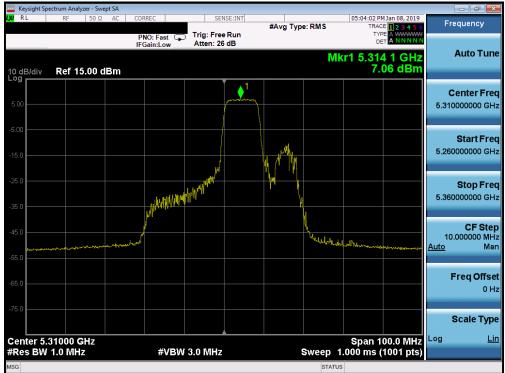
Plot 7-300. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 64)



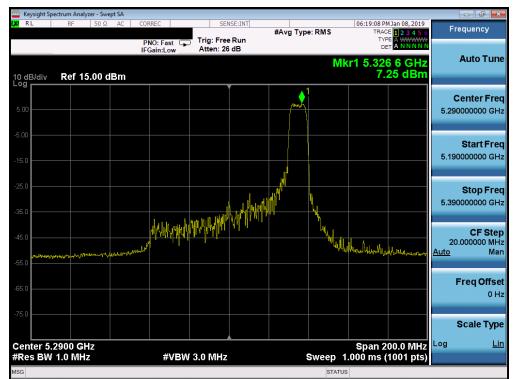
Plot 7-301. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-302. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 62)



Plot 7-303. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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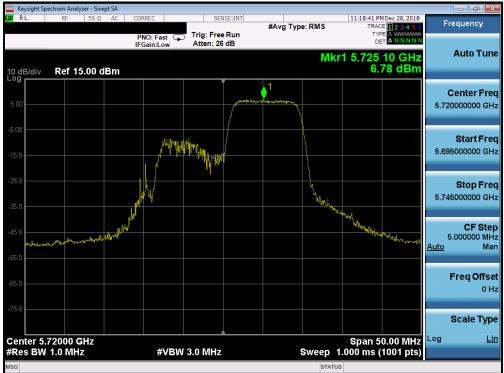
Plot 7-304. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 100)



Plot 7-305. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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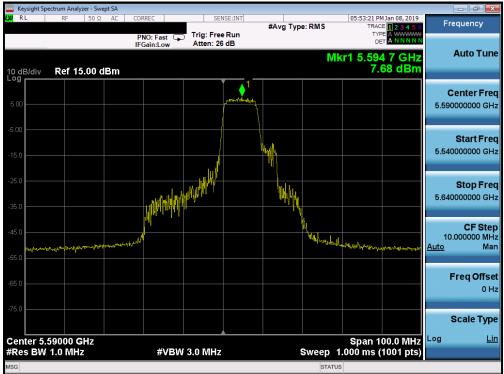
Plot 7-306. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 144)



Plot 7-307. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Daga 222 of 510	
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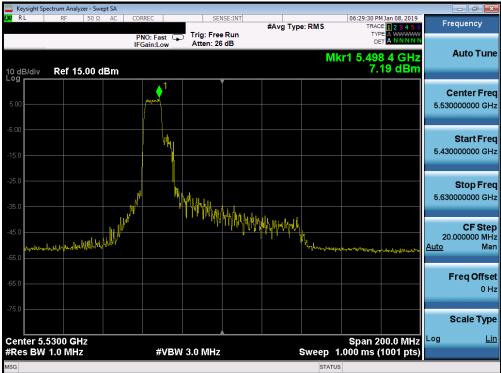
Plot 7-308. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 118)



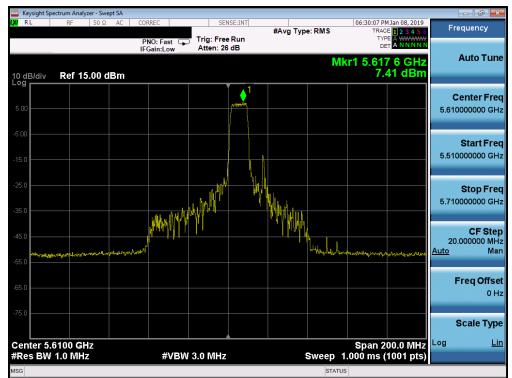
Plot 7-309. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-310. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 106)



Plot 7-311. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 225 of 510	
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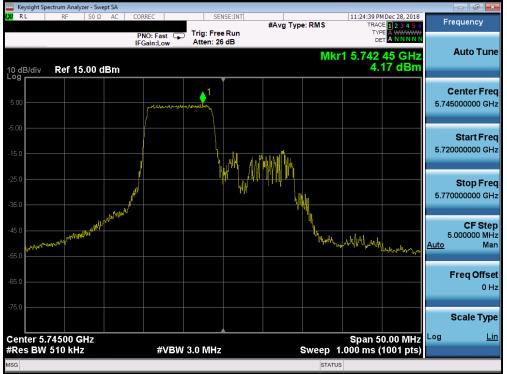
Plot 7-312. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	106T	MCS0	4.17	30.00	-25.83
e	5785	157	ax (20MHz)	106T	MCS0	4.24	30.00	-25.76
	5825	165	ax (20MHz)	106T	MCS0	4.15	30.00	-25.85
Band	5755	151	ax (40MHz)	106T	MCS0	4.78	30.00	-25.22
_	5795	159	ax (40MHz)	106T	MCS0	4.54	30.00	-25.46
	5775	155	ax (80MHz)	106T	MCS0	7.63	30.00	-22.37

Table 7-89. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (106 Tones)



Plot 7-313. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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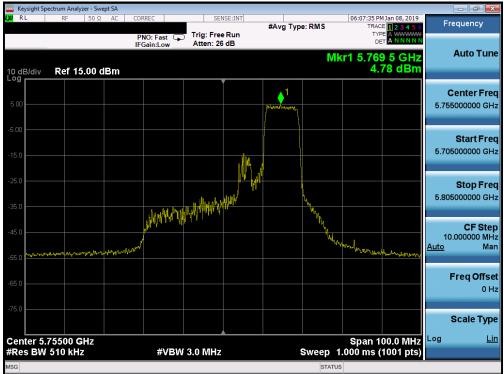
Plot 7-314. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 157)



Plot 7-315. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 228 of 510
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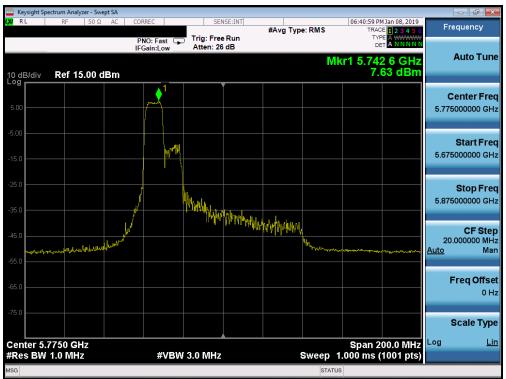
Plot 7-316. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 151)



Plot 7-317. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-318. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 106 Tones (UNII Band 3) – Ch. 155)

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## SISO Antenna-2 Power Spectral Density Measurements (242 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	3.93	11.00	-7.07
_	5200	40	ax (20MHz)	242T	MCS0	6.45	11.00	-4.55
1 br	5240	48	ax (20MHz)	242T	MCS0	6.33	11.00	-4.67
Band	5190	38	ax (40MHz)	242T	MCS0	1.36	11.00	-9.64
_	5230	46	ax (40MHz)	242T	MCS0	5.44	11.00	-5.56
	5210	42	ax (80MHz)	242T	MCS0	0.93	11.00	-10.07
	5260	52	ax (20MHz)	242T	MCS0	6.29	11.00	-4.71
∢	5280	56	ax (20MHz)	242T	MCS0	6.33	11.00	-4.67
Band 2A	5320	64	ax (20MHz)	242T	MCS0	4.67	11.00	-6.33
an	5270	54	ax (40MHz)	242T	MCS0	5.51	11.00	-5.49
Ξ	5310	62	ax (40MHz)	242T	MCS0	3.18	11.00	-7.82
	5290	58	ax (80MHz)	242T	MCS0	1.23	11.00	-9.77
	5500	100	ax (20MHz)	242T	MCS0	6.65	11.00	-4.35
	5600	120	ax (20MHz)	242T	MCS0	6.78	11.00	-4.22
	5720	144	ax (20MHz)	242T	MCS0	6.96	11.00	-4.04
2C	5510	102	ax (40MHz)	242T	MCS0	4.04	11.00	-6.96
Bnad	5590	118	ax (40MHz)	242T	MCS0	6.04	11.00	-4.96
Bn	5710	142	ax (40MHz)	242T	MCS0	6.23	11.00	-4.77
	5530	106	ax (80MHz)	242T	MCS0	3.32	11.00	-7.68
	5610	122	ax (80MHz)	242T	MCS0	5.17	11.00	-5.83
	5690	138	ax (80MHz)	242T	MCS0	4.70	11.00	-6.30

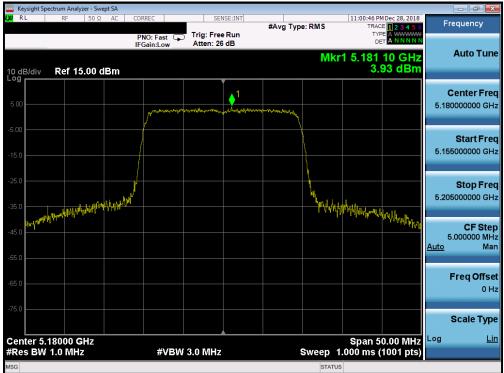
Table 7-90. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT2 (242 Tones)

	Frequen cy [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	3.93	-7.68	-3.75	10.0	-13.75
-	5200	40	ax (20MHz)	242T	MCS0	6.45	-7.68	-1.23	10.0	-11.23
	5240	48	ax (20MHz)	242T	MCS0	6.33	-7.38	-1.05	10.0	-11.05
Band	5190	38	ax (40MHz)	242T	MCS0	1.36	-7.68	-6.32	10.0	-16.32
-	5230	46	ax (40MHz)	242T	MCS0	5.44	-7.38	-1.94	10.0	-11.94
	5210	42	ax (80MHz)	242T	MCS0	0.93	-7.68	-6.75	10.0	-16.75

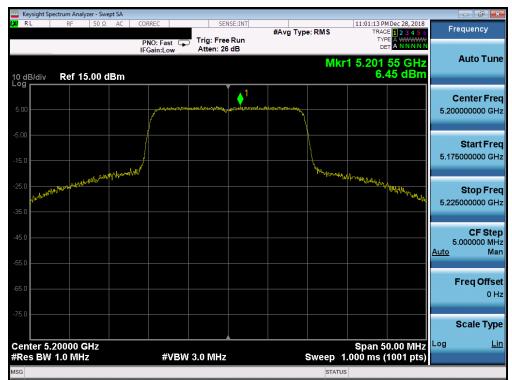
Table 7-91. Bands 1 e.r.i.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

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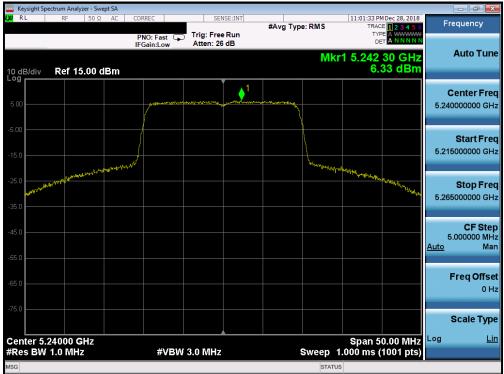
Plot 7-319. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)



Plot 7-320. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

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Plot 7-321. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 48)



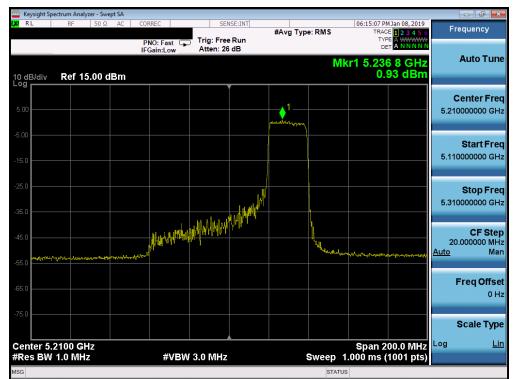
Plot 7-322. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-323. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)



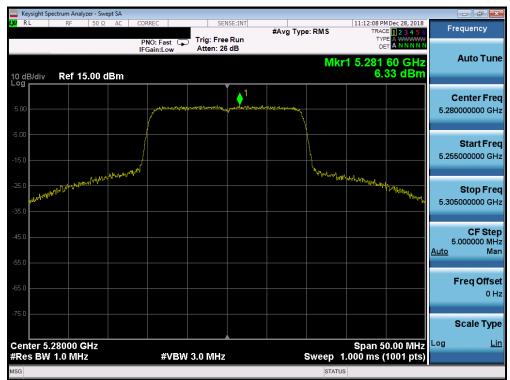
Plot 7-324. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

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Plot 7-325. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)



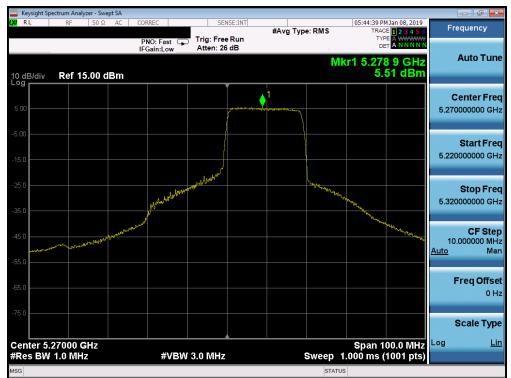
Plot 7-326. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG9700		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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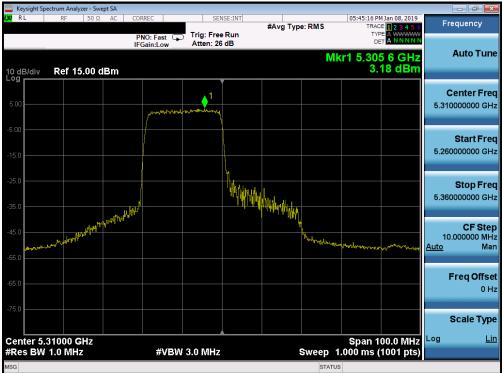
Plot 7-327. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)



Plot 7-328. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

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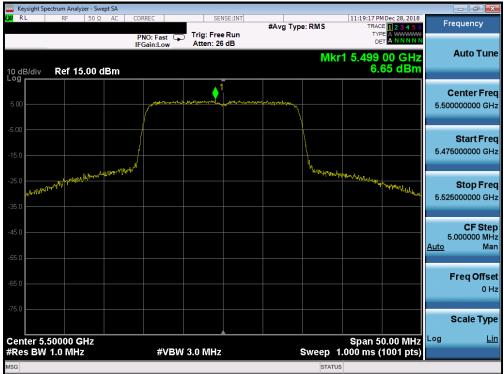
Plot 7-329. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)



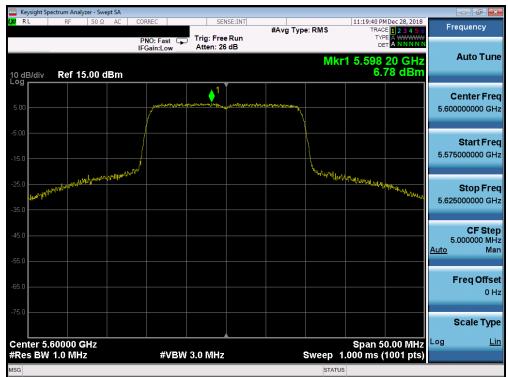
Plot 7-330. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

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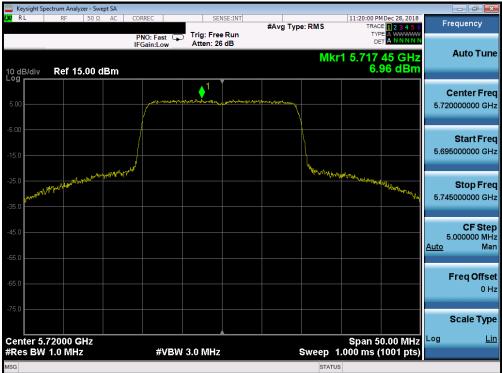
Plot 7-331. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)



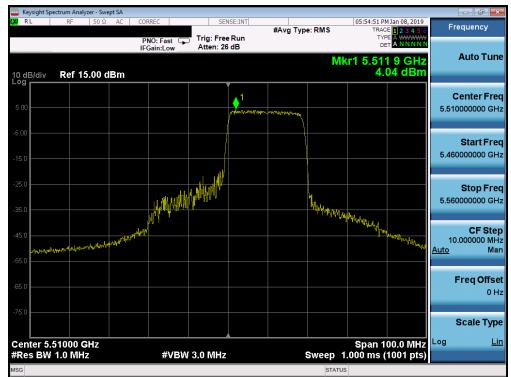
Plot 7-332. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

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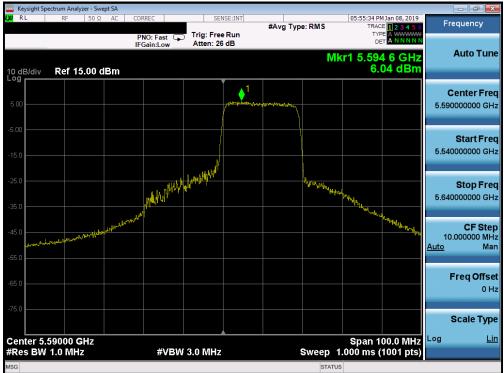
Plot 7-333. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)



Plot 7-334. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

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Plot 7-335. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)



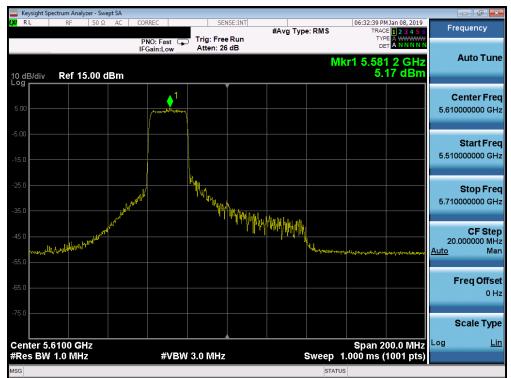
Plot 7-336. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

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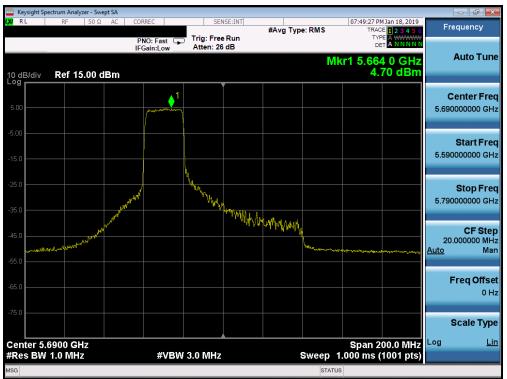
Plot 7-337. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)



Plot 7-338. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

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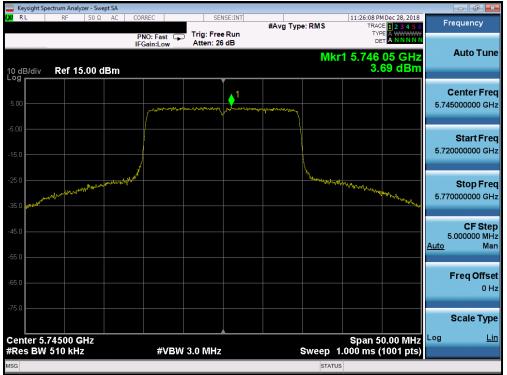
Plot 7-339. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 138)

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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	3.69	30.00	-26.31
e	5785	157	ax (20MHz)	242T	MCS0	4.17	30.00	-25.83
	5825	165	ax (20MHz)	242T	MCS0	4.22	30.00	-25.78
Band	5755	151	ax (40MHz)	242T	MCS0	3.66	30.00	-26.34
_	5795	159	ax (40MHz)	242T	MCS0	3.71	30.00	-26.29
	5775	155	ax (80MHz)	242T	MCS0	5.37	30.00	-24.63

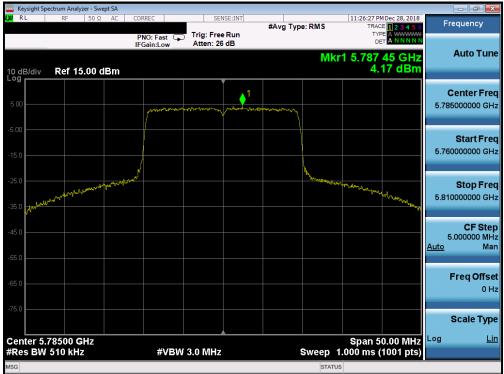
Table 7-92. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (242 Tones)



Plot 7-340. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

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Plot 7-341. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 157)



Plot 7-342. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 165)

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