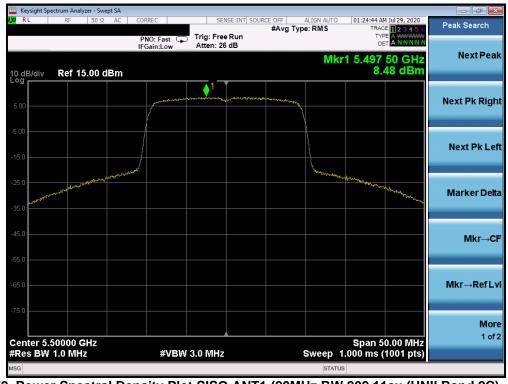


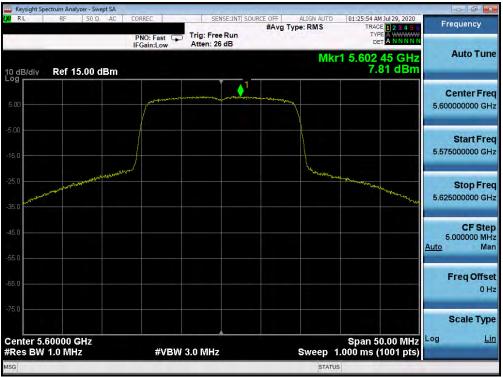
Plot 7-171. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)



Plot 7-172. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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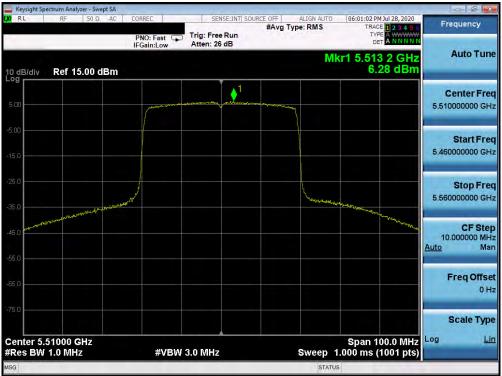
Plot 7-173. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)



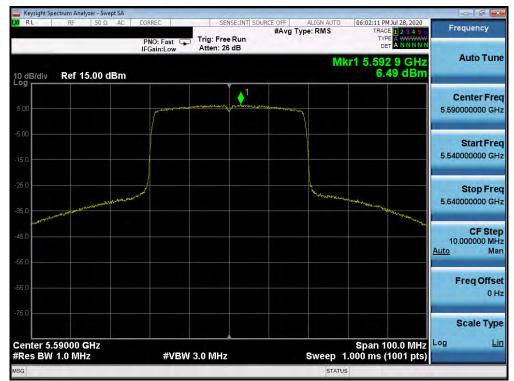
Plot 7-174. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF916U	PCTEST Provide the part of @remove	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 119 of 242
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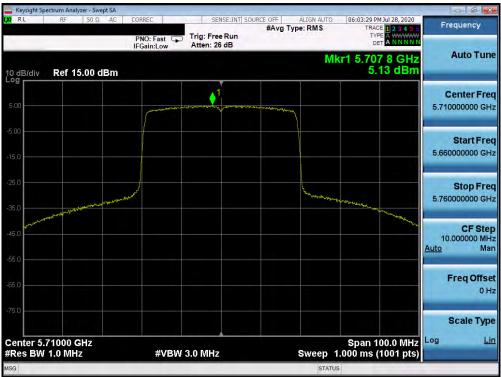
Plot 7-175. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)



Plot 7-176. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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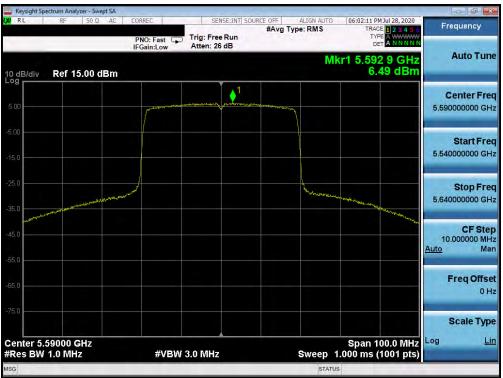
Plot 7-177. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)



Plot 7-178. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF916U	Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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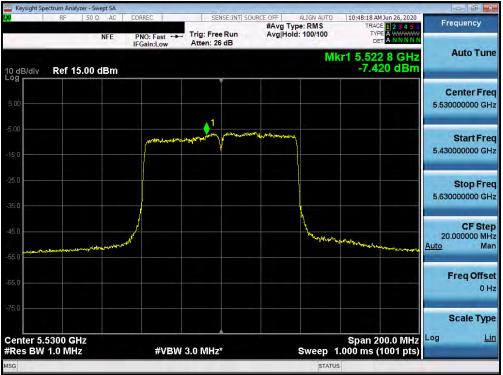
Plot 7-179. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)



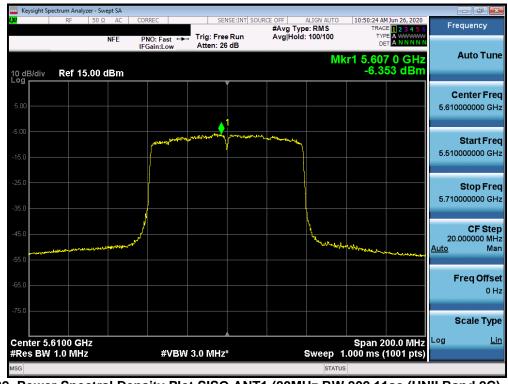
Plot 7-180. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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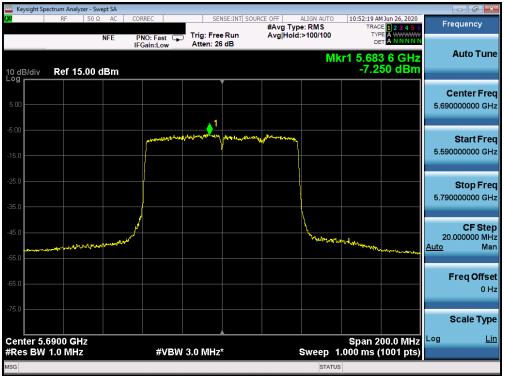
Plot 7-181. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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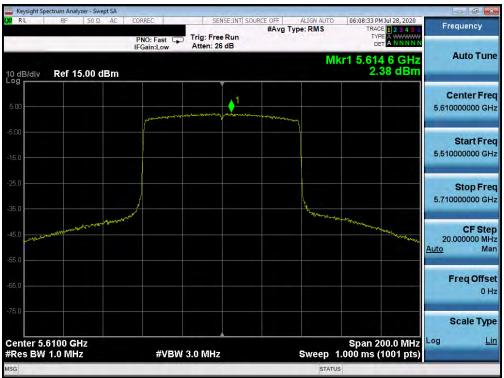
Plot 7-183. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)



Plot 7-184. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	NG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 122 of 242
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Plot 7-185. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)



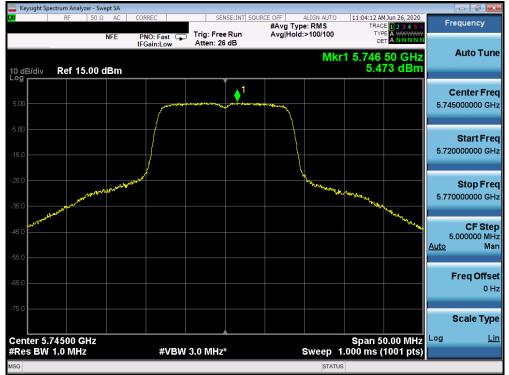
Plot 7-186. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality 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	5.47	30.0	-24.53
	5785	157	а	6	5.29	30.0	-24.71
	5825	165	а	6	4.32	30.0	-25.68
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	5.21	30.0	-24.79
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	2.21	30.0	-27.79
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	1.89	30.0	-28.11
3	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.35	30.0	-24.65
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.46	30.0	-24.54
B	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.26	30.0	-24.74
	5755	151	n (40MHz)	13.5/15 (MCS0)	-4.79	30.0	-34.79
	5795	159	n (40MHz)	13.5/15 (MCS0)	-3.01	30.0	-33.01
	5755	151	ax (40MHz)	13.5/15 (MCS0)	5.58	30.0	-24.42
	5795	159	ax (40MHz)	13.5/15 (MCS0)	5.19	30.0	-24.81
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-9.58	30.0	-39.58
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	1.35	30.0	-28.65

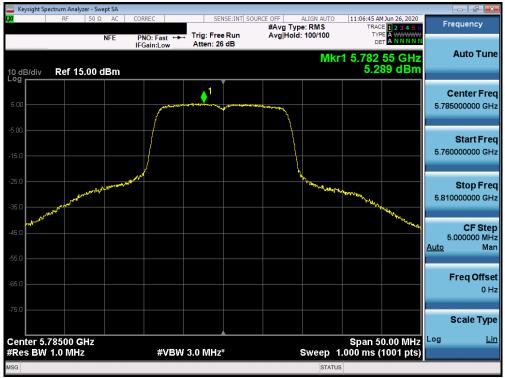
Table 7-23. Band 3 Conducted Power Spectral Density Measurements SISO ANT1



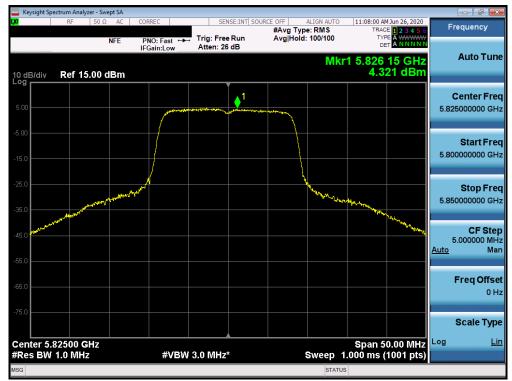
Plot 7-187. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immin	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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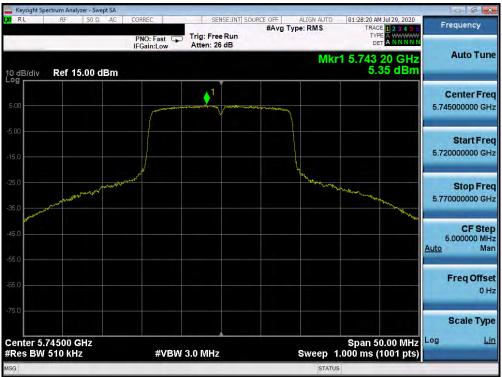
Plot 7-188. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) – Ch. 157)



Plot 7-189. Power Spectral Density Plot SISO ANT1 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 126 of 242
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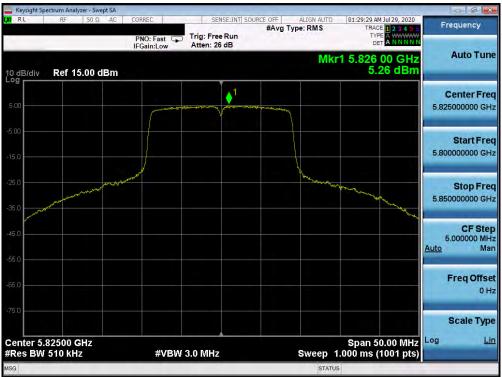
Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)

PNO: Fast 😱 Trig: Fr FGain:Low Atten:	ree Run	#Avg Type	RMS	TRACE	123456 A WWWWWW A N N N N N	Frequency
PGam.Low Attent	20 00	_		DE	ANNNN	I Constant of the local division of the loca
			Mkr	1 5.786 5.4	85 GHz 16 dBm	Auto Tuno
for the second state of th	an provident where the	man				Center Free 5.785000000 GH
						Start Fre 5.760000000 GH
			mangura	T THE REAL PROPERTY OF	W. W	Stop Fre 5.810000000 GH
						CF Ste 5.000000 MH Auto Ma
						Freq Offse 0 H
						Scale Typ
#VBW 3.0 MH	z	S	weep 1.	Span 50 000 ms (1	0.00 MHz 1001 pts)	Log <u>Li</u>
	#VBW 3.0 MH	#VBW 3.0 MHz	#VBW 3.0 MHz S		Span 50 #VBW 3.0 MHz Sweep 1.000 ms (1	Span 50.00 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

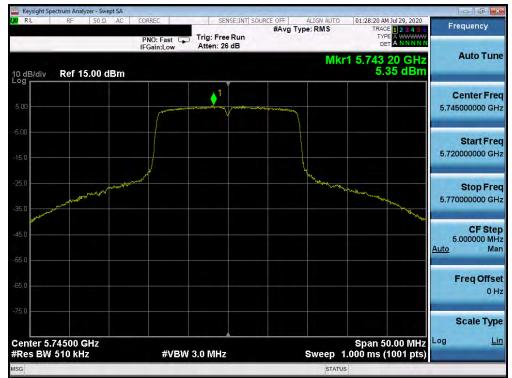
Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



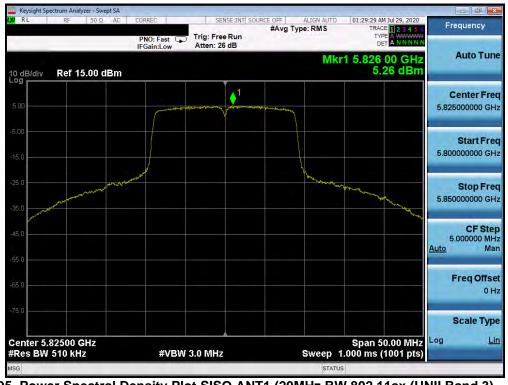
Plot 7-193. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF916U	Post to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 040	
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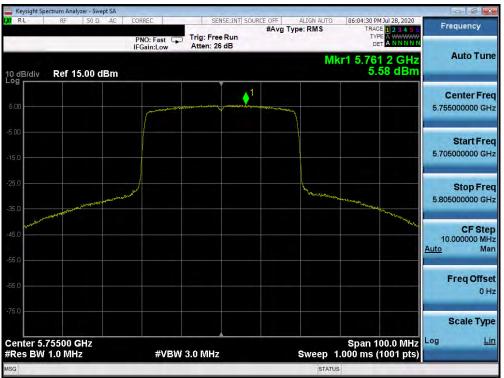
Plot 7-194. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



Plot 7-195. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-196. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-197. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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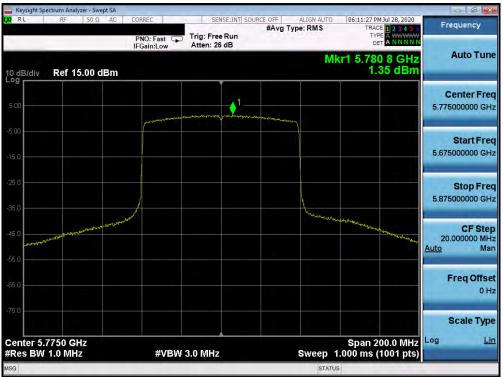
Plot 7-198. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



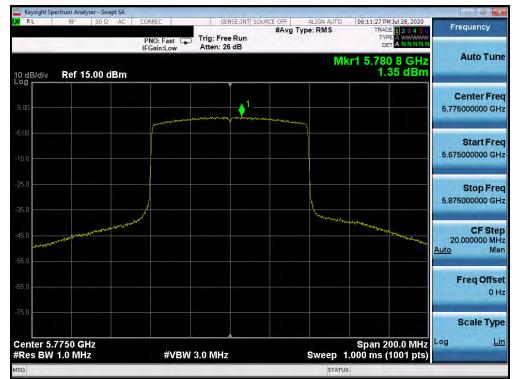
Plot 7-199. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-200. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-201. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 122 of 242	
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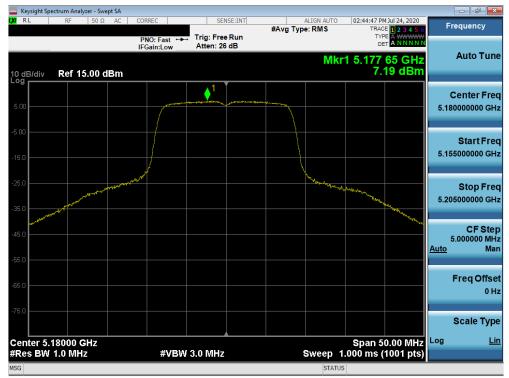
SISO Antenna-2 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	а	6	7.19	11.0	-3.81
	5200	40	а	6	7.84	11.0	-3.16
	5240	48	а	6	7.21	11.0	-3.79
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.47	11.0	-3.53
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	7.66	11.0	-3.34
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.83	11.0	-4.17
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	7.18	11.0	-3.82
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	7.32	11.0	-3.68
B	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.75	11.0	-3.25
	5190	38	n (40MHz)	13.5/15 (MCS0)	3.26	11.0	-7.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	3.02	11.0	-7.98
	5190	38	ax (40MHz)	13.5/15 (MCS0)	3.37	11.0	-7.63
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.82	11.0	-8.18
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.09	11.0	-12.09
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-1.11	11.0	-12.11
	5260	52	a	6	7.06	11.0	-3.95
	5280	56	а	6	7.17	11.0	-3.83
	5320	64	а	6	7.72	11.0	-3.28
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	7.26	11.0	-3.74
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.06	11.0	-3.94
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.62	11.0	-4.38
A	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	7.11	11.0	-3.89
ç pı	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	7.14	11.0	-3.86
Band 2A	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	7.61	11.0	-3.39
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.19	11.0	-8.81
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.39	11.0	-8.61
	5270	54	ax (40MHz)	13.5/15 (MCS0)	3.35	11.0	-7.65
	5310	62	ax (40MHz)	13.5/15 (MCS0)	3.17	11.0	-7.83
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-2.08	11.0	-13.08
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-0.94	11.0	-11.94
	5500	100	a	6	6.48	11.0	-4.52
	5600	120	а	6	7.78	11.0	-3.22
	5720	144	а	6	7.44	11.0	-3.56
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	7.72	11.0	-3.28
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	7.28	11.0	-3.72
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	7.58	11.0	-3.42
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	7.04	11.0	-3.96
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	7.09	11.0	-3.91
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	7.20	11.0	-3.80
Ŋ	5510	102	n (40MHz)	13.5/15 (MCS0)	3.34	11.0	-7.66
Band 2C	5590	118	n (40MHz)	13.5/15 (MCS0)	3.31	11.0	-7.69
Bar	5710	142	n (40MHz)	13.5/15 (MCS0)	2.83	11.0	-8.17
	5510	102	ax (40MHz)	13.5/15 (MCS0)	3.64	11.0	-7.37
	5590	118	ax (40MHz)	13.5/15 (MCS0)	3.42	11.0	-7.58
	5710	142	ax (40MHz)	13.5/15 (MCS0)	3.60	11.0	-7.40
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.87	11.0	-12.87
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.90	11.0	-12.90
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-3.51	11.0	-14.51
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-0.76	11.0	-11.76
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-0.86	11.0	-11.86
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-0.71	11.0	-11.71
				Spectral Dens			

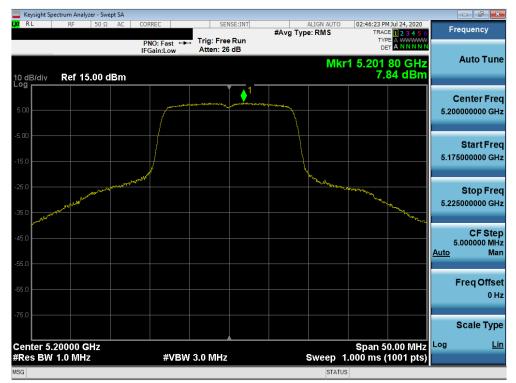
Table 7-24. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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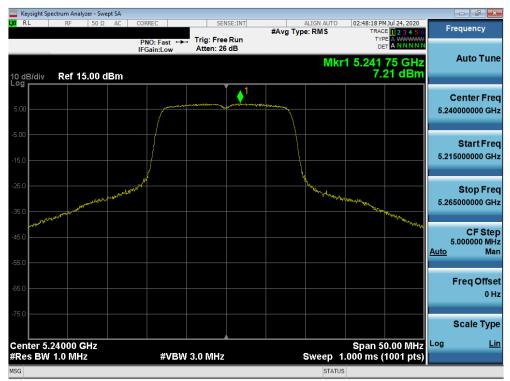




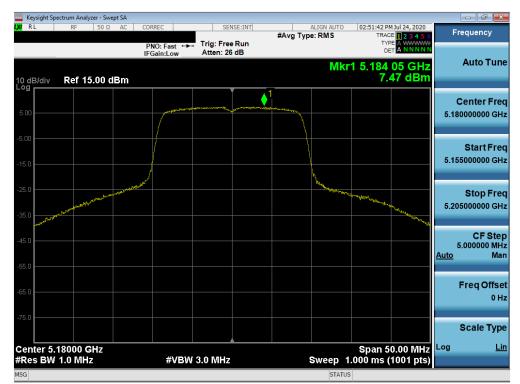
Plot 7-203. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF916U	PCTEST Provid to be part of @ manuary	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 124 of 242
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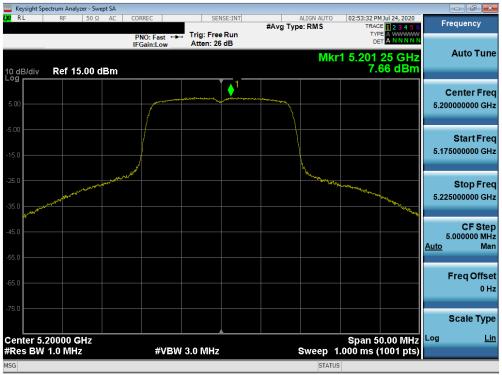
Plot 7-204. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) - Ch. 48)



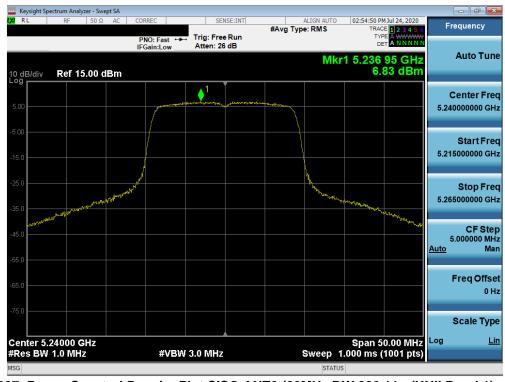
Plot 7-205. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-206. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



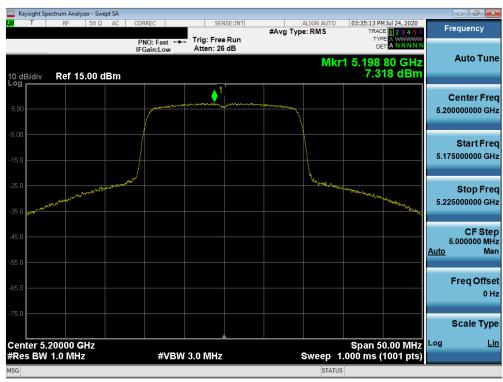
Plot 7-207. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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		ctrum Analyzer										
LXI RI		RF	50 Ω AC	CORREC			#Avg Typ	ALIGN AUTO e: RMS	TRAC	1 Jul 24, 2020 E 1 2 3 4 5 6 E A WWWW	F	requency
				PNO:Fast ↔ IFGain:Low	Atten: 26				DE			Auto Tune
10 dE Log	3/div	Ref 15.0	0 dBm				_	Mkr	1 5.181	30 GHz 18 dBm		Autorune
						♦ ¹					(Center Freq
5.00											5.18	0000000 GHz
-5.00												Start Freq
-15.0											5.15	5000000 GHz
				1								
-25.0		مى مەربىلى 1911- يەر	mal and the state of the state					- Contractory	the washing the water			Stop Freq
-35.0	and the second	Provent and								and many and should be a set	5.20	5000000 GHz
-45.0												CF Step
											Auto (5.000000 MHz Man
-55.0												
-65.0												Freq Offset 0 Hz
-75.0												
												Scale Type
		8000 GH	z						Span 5	V.VV IIIII IZ	Log	<u>Lin</u>
	s BW ′	1.0 MHz		#VBV	V 3.0 MHz					1001 pts)		
MSG								STATUS				

Plot 7-208. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



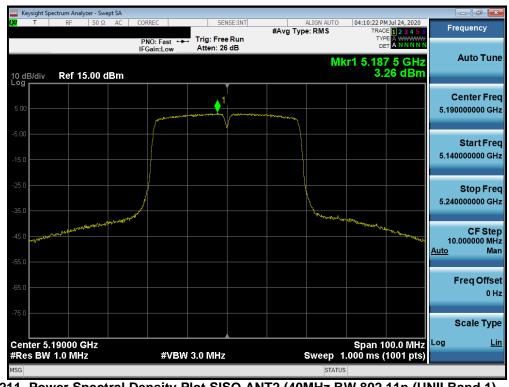
Plot 7-209. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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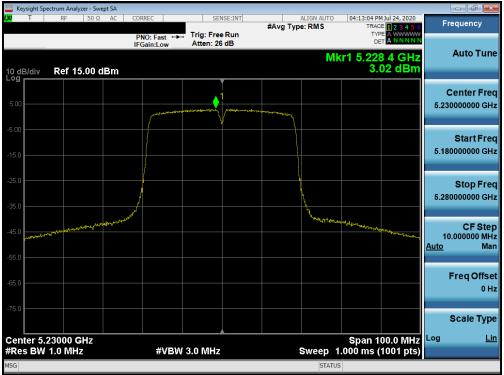
Plot 7-210. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



Plot 7-211. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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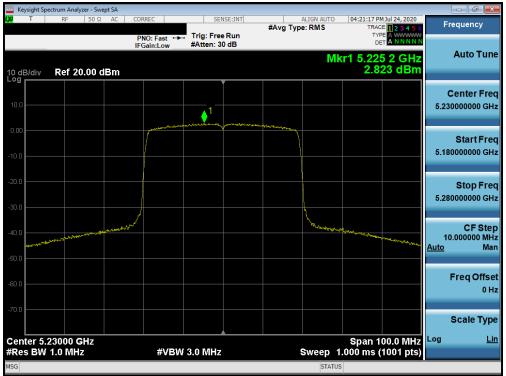
Plot 7-212. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



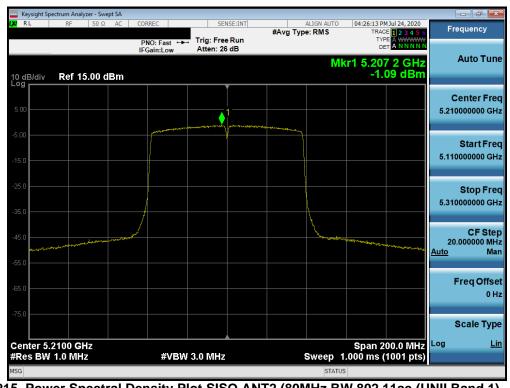
Plot 7-213. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-214. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



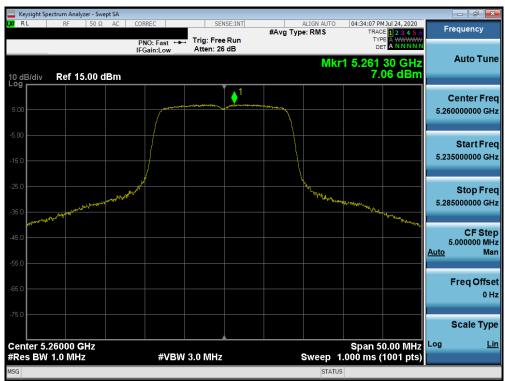
Plot 7-215. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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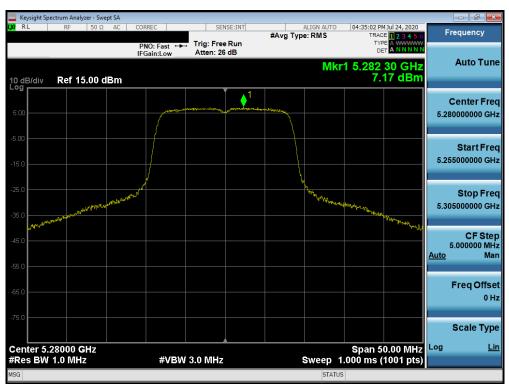
Plot 7-216. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



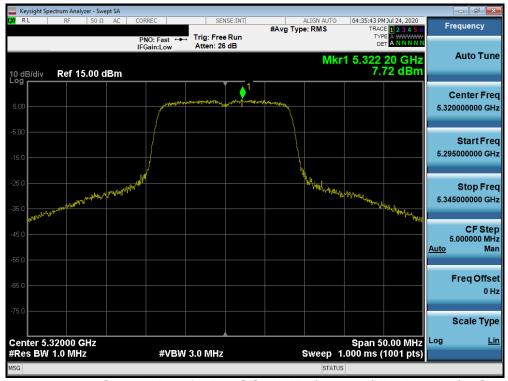
Plot 7-217. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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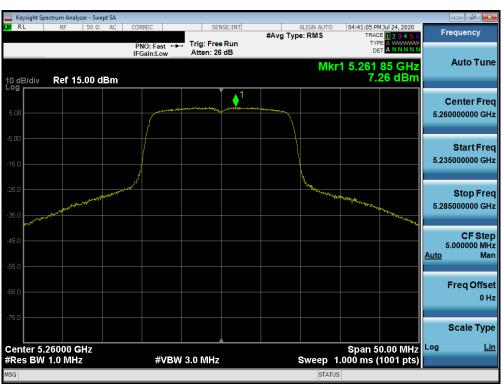
Plot 7-218. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 56)



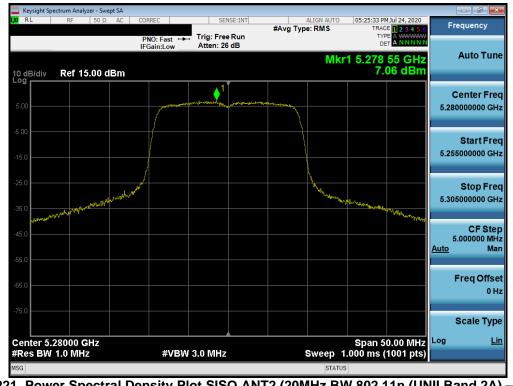
Plot 7-219. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF916U	Proved to be part of @reference	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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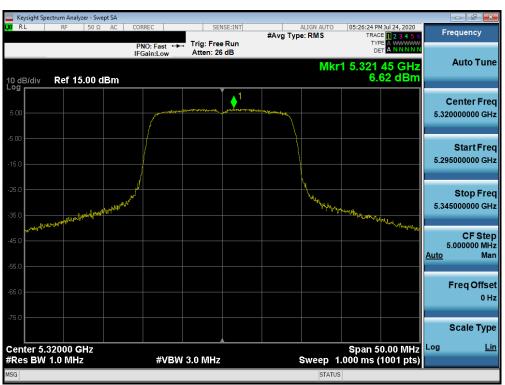
Plot 7-220. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



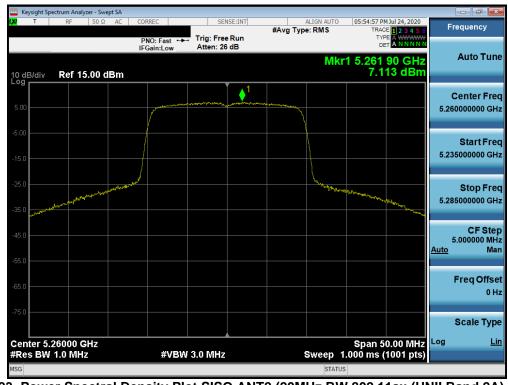
Plot 7-221. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immin	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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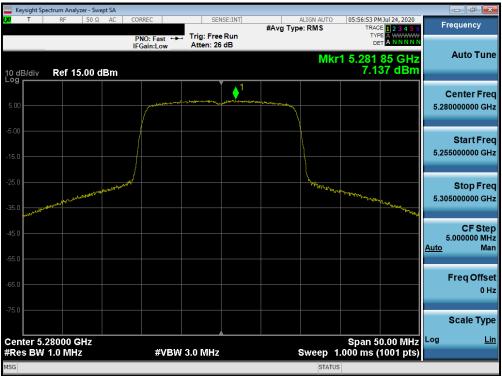
Plot 7-222. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



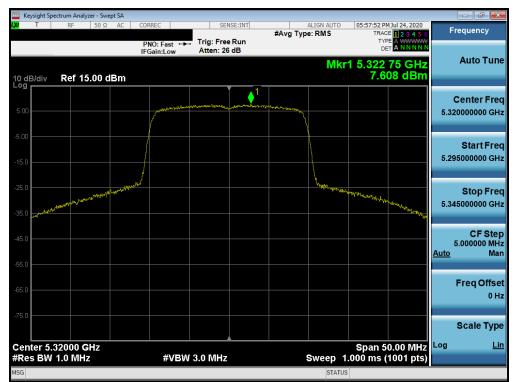
Plot 7-223. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immin	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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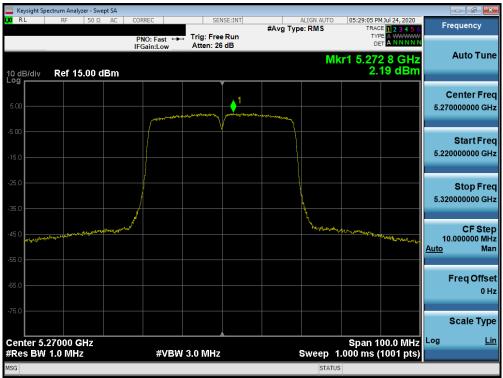
Plot 7-224. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



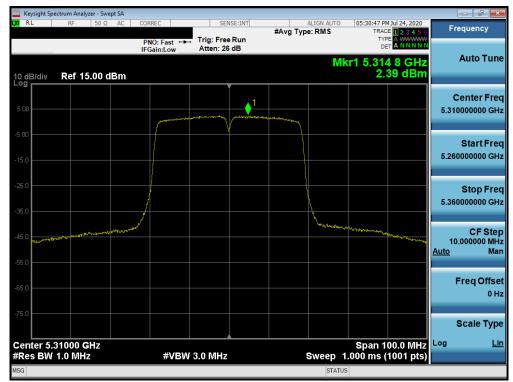
Plot 7-225. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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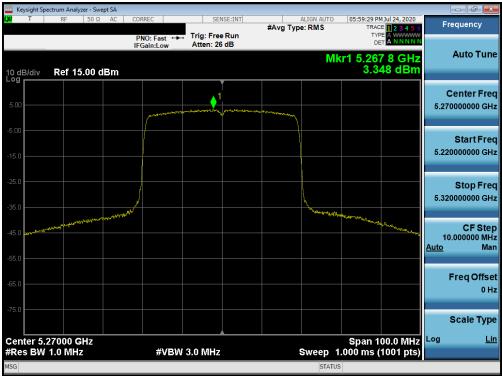
Plot 7-226. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



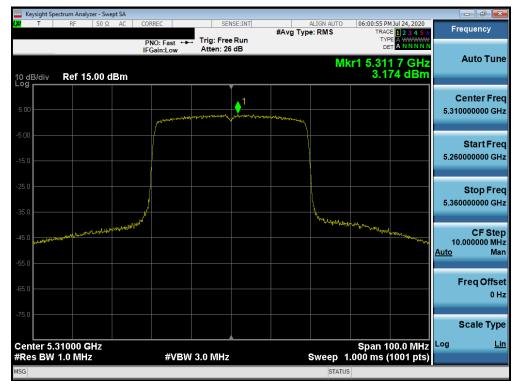
Plot 7-227. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF916U	Proud to be part of @ man	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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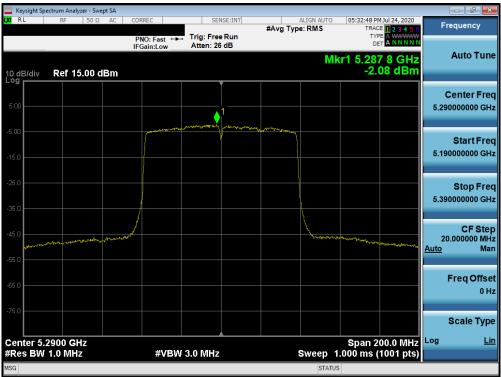
Plot 7-228. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



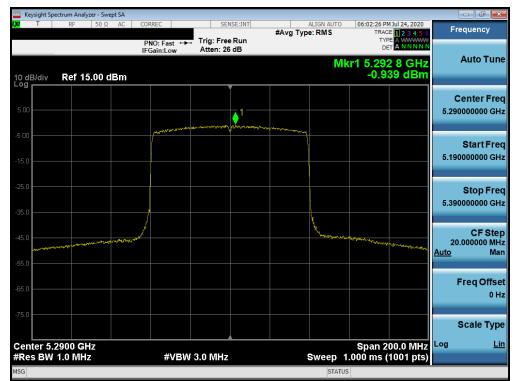
Plot 7-229. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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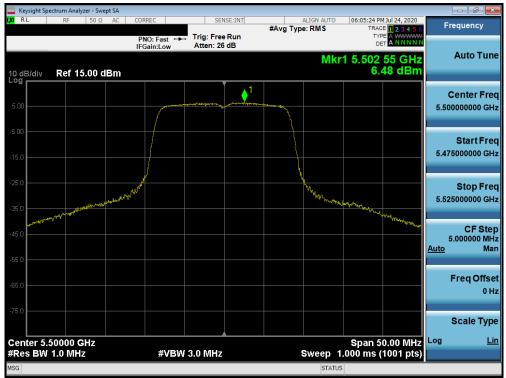
Plot 7-230. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



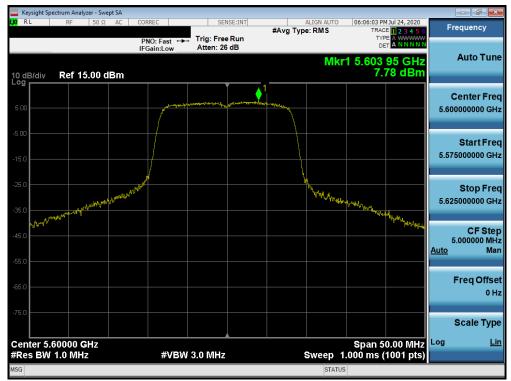
Plot 7-231. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF916U	Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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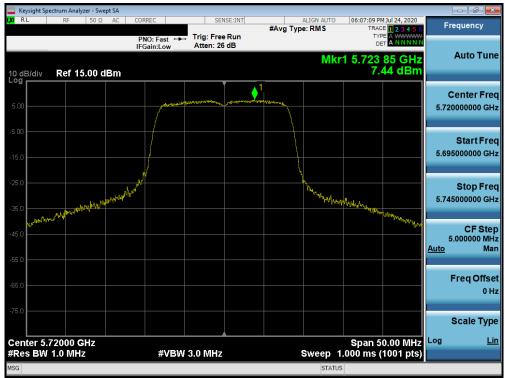
Plot 7-232. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)



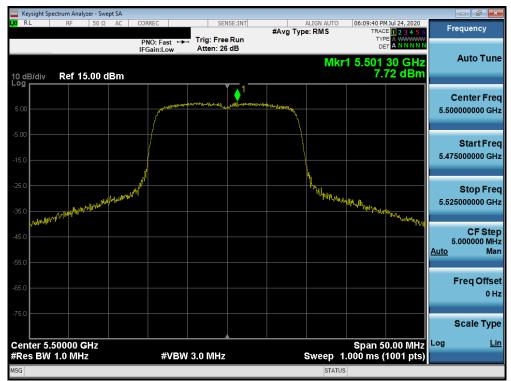
Plot 7-233. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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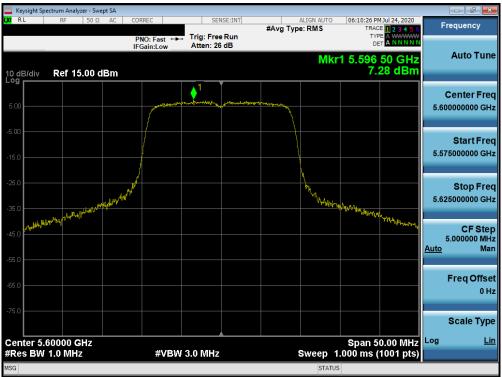
Plot 7-234. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) - Ch. 144)



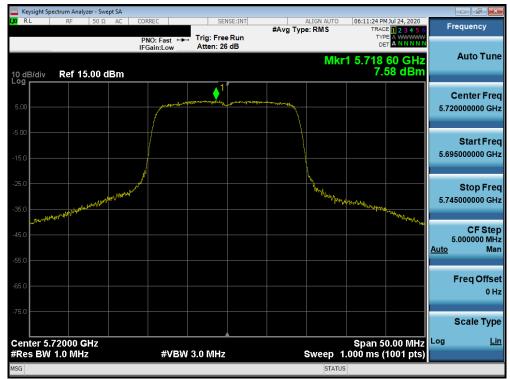
Plot 7-235. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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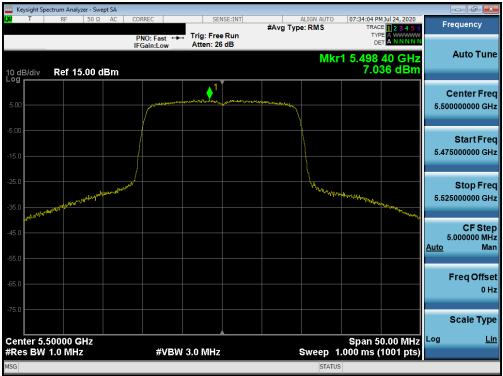
Plot 7-236. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



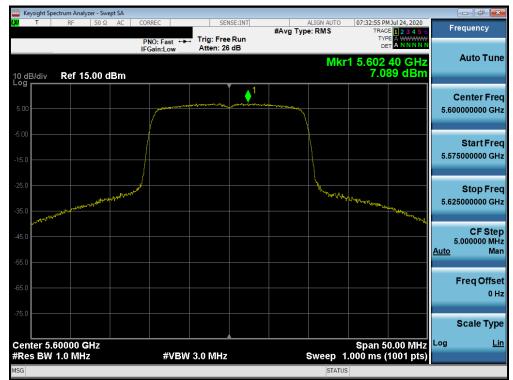
Plot 7-237. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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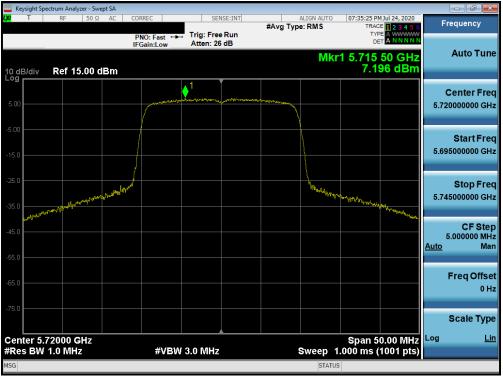
Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



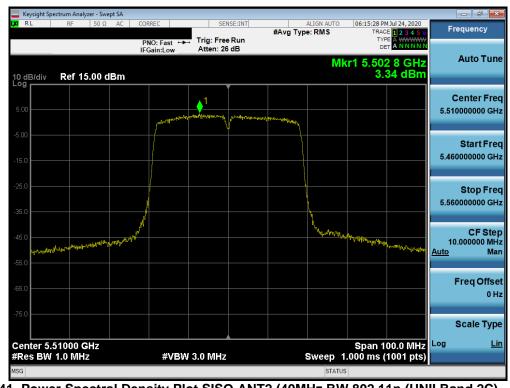
Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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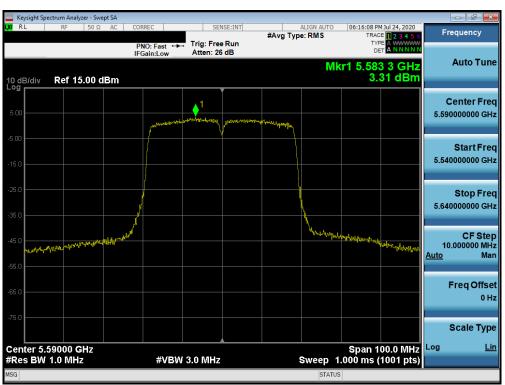
Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



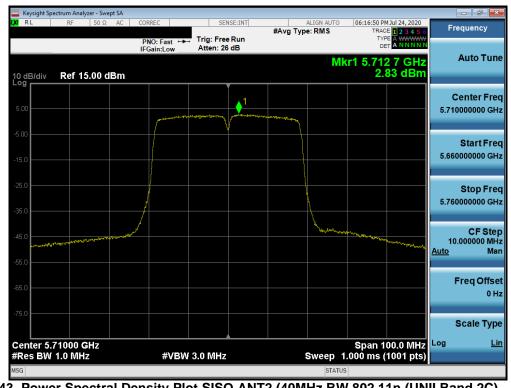
Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

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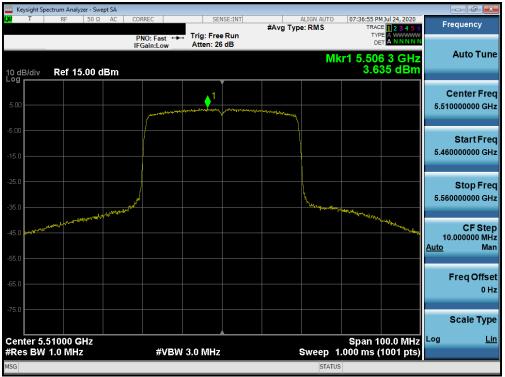
Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



Plot 7-243. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ manuar	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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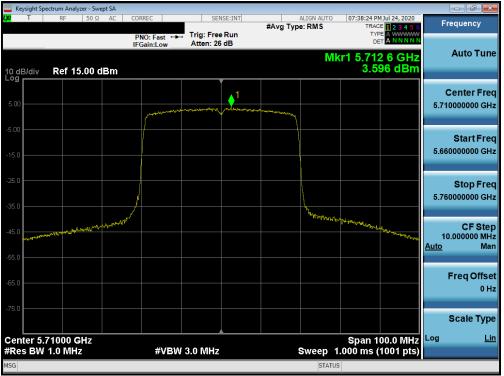
Plot 7-244. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



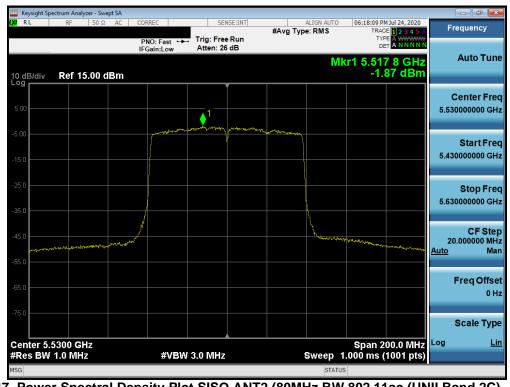
Plot 7-245. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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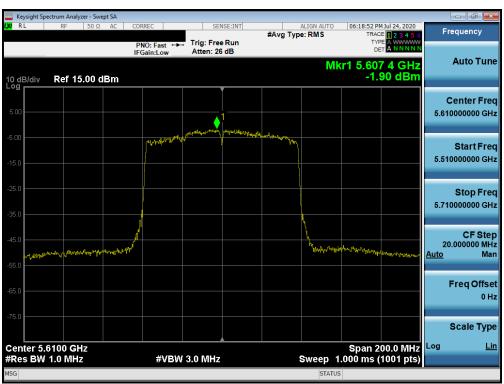
Plot 7-246. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11x (UNII Band 2C) - Ch. 142)



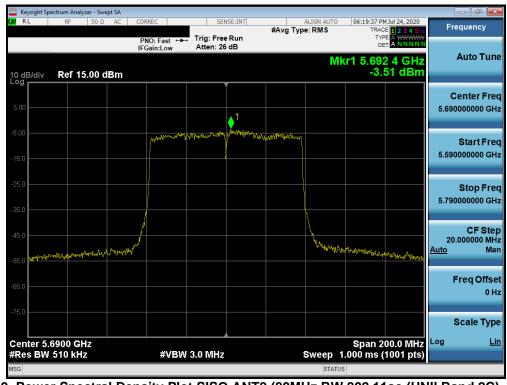
Plot 7-247. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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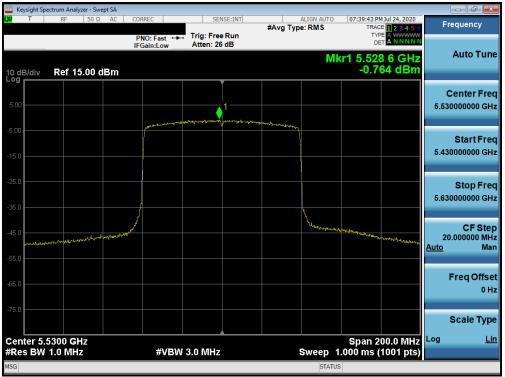
Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

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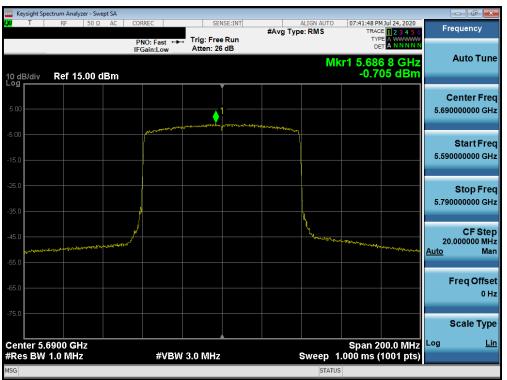
Plot 7-250. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-251. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

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Plot 7-252. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

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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	7.66	30.0	-22.34
	5785	157	а	6	7.64	30.0	-22.36
	5825	165	а	6	7.20	30.0	-22.80
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	7.81	30.0	-22.19
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	7.17	30.0	-22.83
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.76	30.0	-23.24
3	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	7.21	30.0	-22.79
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	7.41	30.0	-22.59
ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	7.05	30.0	-22.96
	5755	151	n (40MHz)	13.5/15 (MCS0)	2.76	30.0	-27.24
	5795	159	n (40MHz)	13.5/15 (MCS0)	3.08	30.0	-26.92
	5755	151	ax (40MHz)	13.5/15 (MCS0)	3.39	30.0	-26.61
	5795	159	ax (40MHz)	13.5/15 (MCS0)	3.36	30.0	-26.65
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-2.12	30.0	-32.12
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-0.73	30.0	-30.73

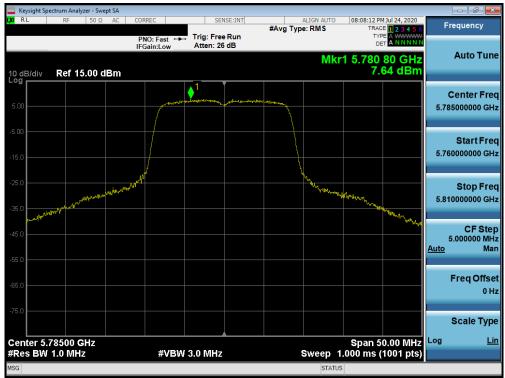
Table 7-25. Band 3 Conducted Power Spectral Density Measurements SISO ANT2



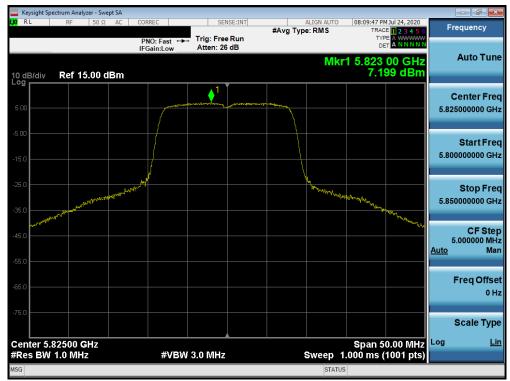
Plot 7-253. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immin	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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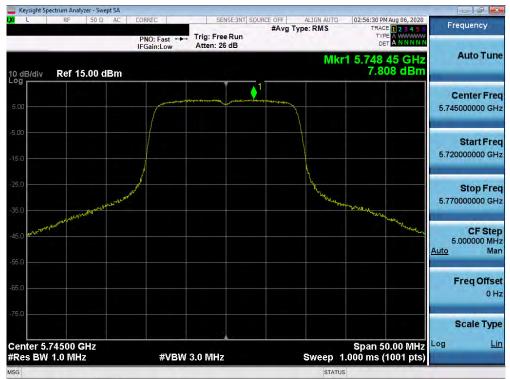
Plot 7-254. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 157)



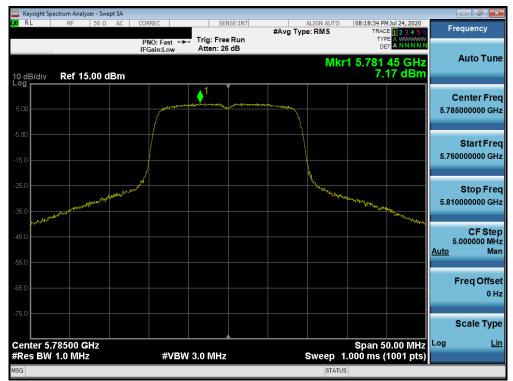
Plot 7-255. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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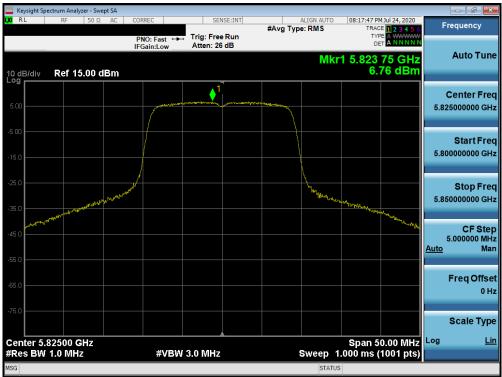
Plot 7-256. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



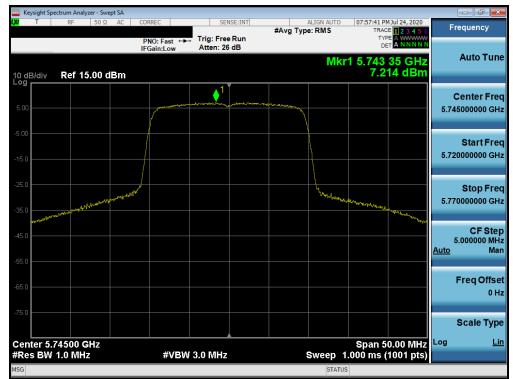
Plot 7-257. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF916U	Proved to be part of @rimmer	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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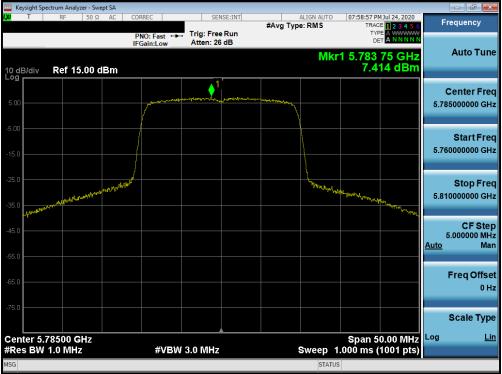
Plot 7-258. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



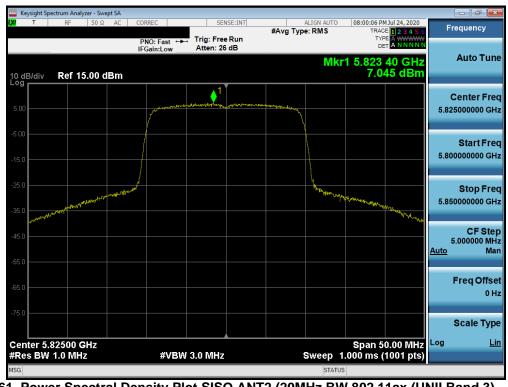
Plot 7-259. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remover	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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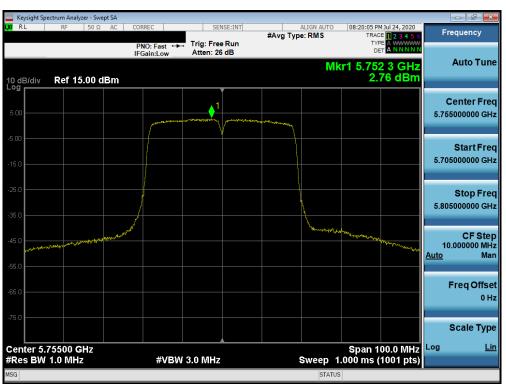
Plot 7-260. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



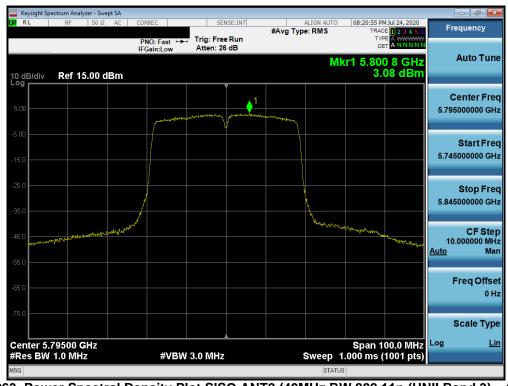
Plot 7-261. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



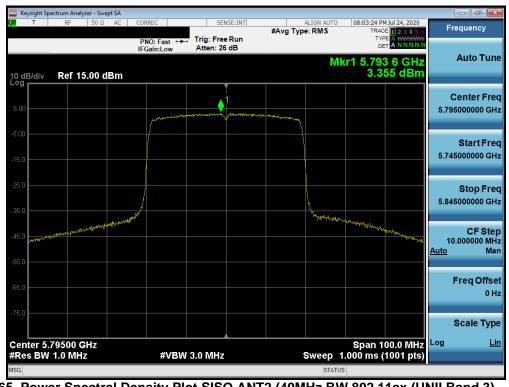
Plot 7-263. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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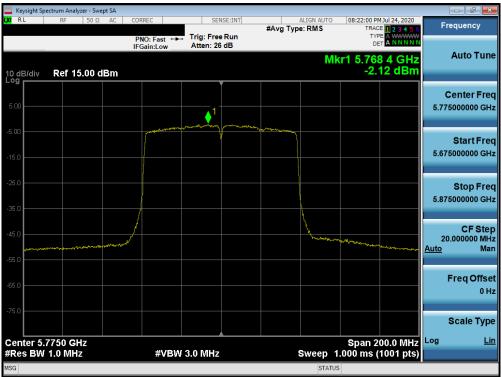
Plot 7-264. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-265. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF916U	PCTEST Froud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-266. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-267. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immer	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Summed MIMO Power Spectral Density Measurements

	-				Antenna-1	Antenna-2	Summed MIMO	Max Power	
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]				Density	Margin
	נואורזבן	NO.			[dBm]	[dBm]	[dBm]	[dBm/MHz]	[dB]
	5180	36	а	6	4.68	7.19	9.12	11.0	-1.88
	5200	40	а	6	4.06	7.84	9.36	11.0	-1.64
	5240	48	а	6	4.84	7.21	9.20	11.0	-1.80
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.57	7.47	9.27	11.0	-1.73
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.93	7.66	9.20	11.0	-1.80
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.62	6.83	8.88	11.0	-2.12
Ξ	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	7.55	7.18	10.38	11.0	-0.62
Band 1	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	7.74	7.32	10.54	11.0	-0.46
ш	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.95	7.75	10.86	11.0	-0.14
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.81	8.91	9.35	11.0	-1.65
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.55	7.32	7.98	11.0	-3.02
	5190	38	ax (40MHz)	13.5/15 (MCS0)	5.82	7.75	9.90	11.0	-1.10
	5230	46	ax (40MHz)	13.5/15 (MCS0)	5.23	3.26	7.37	11.0	-3.63
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-7.66	7.75	7.87	11.0	-3.13
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	1.47	3.26	5.47	11.0	-5.53
	5260	52	а	6	4.56	3.02	6.87	11.0	-4.13
	5280	56	а	6	4.56	3.37	7.02	11.0	-3.98
	5320	64	а	6	4.89	2.82	6.99	11.0	-4.01
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	4.51	-1.09	5.57	11.0	-5.43
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	4.28	-1.11	5.38	11.0	-5.62
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	4.46	6.62	8.68	11.0	-2.32
2A	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	7.99	7.06	10.56	11.0	-0.44
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	7.65	7.17	10.43	11.0	-0.57
Ba	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	7.69	7.72	10.72	11.0	-0.28
	5270	54	n (40MHz)	13.5/15 (MCS0)	-1.16	7.06	7.66	11.0	-3.34
	5310	62	n (40MHz)	13.5/15 (MCS0)	-1.09	7.17	7.78	11.0	-3.22
	5270	54	ax (40MHz)	13.5/15 (MCS0)	6.00	7.72	9.96	11.0	-1.04
	5310	62	ax (40MHz)	13.5/15 (MCS0)	5.58	7.26	9.51	11.0	-1.49
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-7.66	7.72	7.85	11.0	-3.15
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	2.08	7.26	8.41	11.0	-2.59
	5500	100	а	6	4.78	7.06	9.08	11.0	-1.92
	5600	120	а	6	5.29	7.11	9.31	11.0	-1.69
	5720	144	а	6	5.38	7.61	9.65	11.0	-1.35
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.50	2.19	6.51	11.0	-4.49
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.26	3.35	6.84	11.0	-4.16
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.90	-2.08	5.69	11.0	-5.31
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	8.48	-0.94	8.95	11.0	-2.05
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	7.81	6.48	10.21	11.0	-0.79
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	8.47	7.20	10.89	11.0	-0.11
2C	5510	102	n (40MHz)	13.5/15 (MCS0)	6.28	-0.94	7.03	11.0	-3.97
Band	5590	118	n (40MHz)	13.5/15 (MCS0)	6.49	6.48	9.50	11.0	-1.50
Ba	5710	142	n (40MHz)	13.5/15 (MCS0)	5.13	7.78	9.67	11.0	-1.33
	5510	102	ax (40MHz)	13.5/15 (MCS0)	6.28	3.64	8.17	11.0	-2.83
	5590	118	ax (40MHz)	13.5/15 (MCS0)	6.49	7.72	10.16	11.0	-0.84
	5710	142	ax (40MHz)	13.5/15 (MCS0)	5.13	7.28	9.35	11.0	-1.65
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-7.42	-1.87	-0.80	11.0	-11.80
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-6.35	7.44	7.62	11.0	-3.38
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-7.25	7.72	7.86	11.0	-3.14
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	2.85	-0.76	4.42	11.0	-6.58
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	2.38	7.28	8.50	11.0	-2.50
	5690	138	ax (80MHz)	29.3/32.5 (MCS0)	1.34	-0.71	3.45	11.0	-7.55

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

FCC ID: A3LSMF916U	PCTEST Provid to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNE	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional 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	а	6.5/7.2 (MCS0)	4.68	7.19	9.12	-2.20	6.93	10.0	-3.07
	5200	40	а	6.5/7.2 (MCS0)	4.06	7.84	9.36	-2.60	6.76	10.0	-3.24
	5240	48	а	6.5/7.2 (MCS0)	4.84	7.21	9.20	-2.60	6.59	10.0	-3.41
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.57	7.47	9.27	-2.20	7.07	10.0	-2.93
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.93	7.66	9.19	-2.60	6.59	10.0	-3.41
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.62	6.83	8.87	-2.60	6.27	10.0	-3.73
-	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	7.55	8.91	11.29	-2.20	9.10	10.0	-0.90
Band	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	7.74	7.32	10.55	-2.60	7.94	10.0	-2.06
ä	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	7.95	7.75	10.86	-2.60	8.26	10.0	-1.74
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.81	8.91	9.35	-2.20	7.15	10.0	-2.85
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.55	7.32	7.98	-2.60	5.37	10.0	-4.63
	5190	38	ax (40MHz)	13.5/15 (MCS0)	5.82	7.75	9.90	-2.60	7.30	10.0	-2.70
	5230	46	ax (40MHz)	13.5/15 (MCS0)	5.23	3.26	7.37	-2.20	5.17	10.0	-4.83
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-7.66	7.75	7.87	-2.60	5.27	10.0	-4.73
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	1.47	3.26	5.47	-2.60	2.86	10.0	-7.14

Table 7-27. Band 1 MIMO e.i.r.p Conducted Power Spectral Density Measurements (ISED)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]		Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	5.21	7.20	9.33	30.0	-20.67
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	2.21	7.17	8.37	30.0	-21.63
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	1.89	6.76	7.98	30.0	-22.02
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.35	7.21	9.39	30.0	-20.61
-	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.46	7.41	9.56	30.0	-20.44
d 3	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.26	7.05	9.25	30.0	-20.75
Band	5755	151	n (40MHz)	13.5/15 (MCS0)	-4.79	7.21	7.48	30.0	-22.52
	5795	159	n (40MHz)	13.5/15 (MCS0)	-3.01	2.76	3.78	30.0	-26.22
	5755	151	ax (40MHz)	13.5/15 (MCS0)	5.58	3.08	7.52	30.0	-22.48
	5795	159	ax (40MHz)	13.5/15 (MCS0)	5.19	3.39	7.39	30.0	-22.61
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-9.58	3.08	3.31	30.0	-26.69
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	1.35	-0.73	3.44	30.0	-26.56

Table 7-28. Band 3 MIMO Conducted Power Spectral Density Measurements

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 4.57 dBm for Antenna-1 and 7.47 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

(4.57 dBm + 7.47 dBm) = (2.86 mW + 5.58 mW) = 8.45 mW = 9.27 dBm

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7.6 Radiated Spurious Emission Measurements – Above 1GHz §15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna 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. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-29 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-29. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Test Setup

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

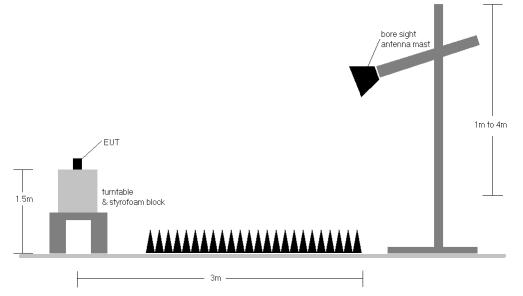


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

- 1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-29.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-29. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
- 8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- ο Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- ο Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

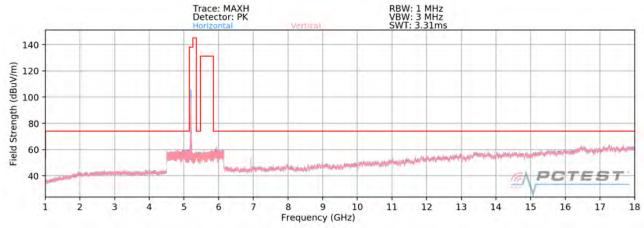
Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:

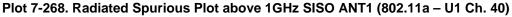
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

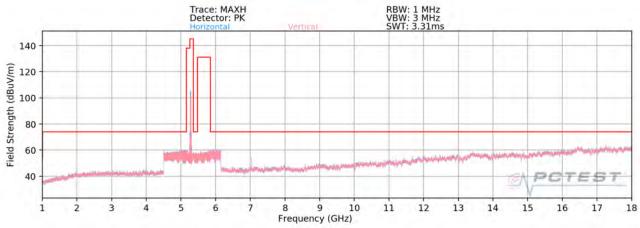
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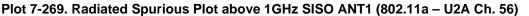


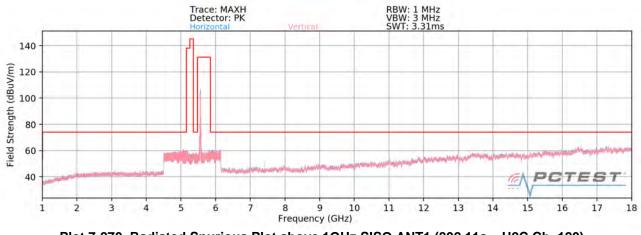


7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements





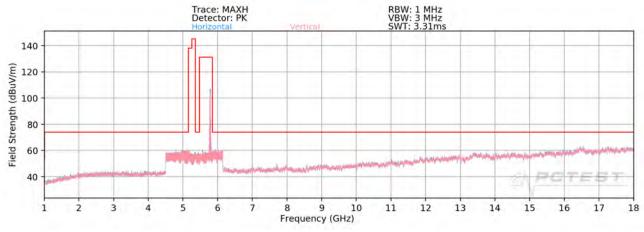




Plot 7-270. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 120)

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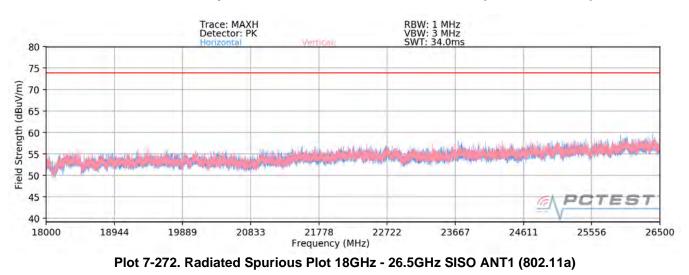




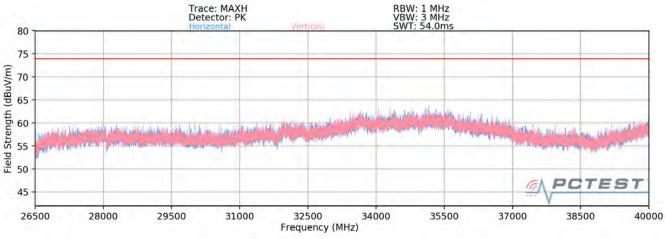
Plot 7-271. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

FCC ID: A3LSMF916U	PCTEST Proved to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-273. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

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SISO Antenna-1 Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	-	-	-71.72	17.66	0.00	52.94	68.20	-15.26
*	15540.00	Average	Н	-	-	-84.72	27.40	0.00	49.68	53.98	-4.30
*	15540.00	Peak	Н	-	-	-72.34	27.40	0.00	62.06	73.98	-11.92
*	20720.00	Average	Н	150	320	-61.95	-3.74	-9.54	31.77	53.98	-22.21
*	20720.00	Peak	Н	150	320	-50.02	-3.74	-9.54	43.70	73.98	-30.28
	25900.00	Peak	Н	-	-	-54.01	-3.03	-9.54	40.42	68.20	-27.78

Table 7-30. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

802.11a
6Mbps
1 & 3 Meters
5200MHz
40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	Н	-	-	-67.12	17.05	0.00	56.93	68.20	-11.27
*	15600.00	Average	н	-	-	-85.02	27.72	0.00	49.70	53.98	-4.28
*	15600.00	Peak	н	-	-	-68.21	27.72	0.00	66.51	73.98	-7.47
*	20800.00	Average	н	150	318	-62.24	-3.76	-9.54	31.46	53.98	-22.52
*	20800.00	Peak	н	150	318	-50.83	-3.76	-9.54	42.87	73.98	-31.11
	26000.00	Peak	Н	-	-	-53.44	-2.81	-9.54	41.21	68.20	-26.99

Table 7-31. Radiated Measurements SISO ANT1

FCC ID: A3LSMF916U	Provid to be part of @remining	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5240MHz
Channel:	48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	н	-	-	-71.75	18.64	0.00	53.89	68.20	-14.31
*	15720.00	Average	н	-	-	-84.91	28.05	0.00	50.14	53.98	-3.84
*	15720.00	Peak	н	-	-	-73.47	28.05	0.00	61.58	73.98	-12.40
*	20960.00	Average	н	150	318	-63.20	-3.71	-9.54	30.55	53.98	-23.43
*	20960.00	Peak	Н	150	318	-51.42	-3.71	-9.54	42.33	73.98	-31.65
	26200.00	Peak	Н	-	-	-52.48	-2.65	-9.54	42.33	68.20	-25.87

Table 7-32. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5260MHz 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	Н	-	-	-72.47	19.03	0.00	53.56	68.20	-14.64
*	15780.00	Average	Н	-	-	-84.84	27.96	0.00	50.12	53.98	-3.86
*	15780.00	Peak	Н	-	-	-72.93	27.96	0.00	62.03	73.98	-11.95
*	21040.00	Average	Н	150	320	-61.95	-3.74	-9.54	31.77	53.98	-22.21
*	21040.00	Peak	Н	150	320	-50.02	-3.74	-9.54	43.70	73.98	-30.28
	26300.00	Peak	Н	-	-	-54.01	-3.03	-9.54	40.42	68.20	-27.78

Table 7-33. Radiated Measurements SISO ANT1

FCC ID: A3LSMF916U	PCTEST Proxit to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	н	-	-	-71.99	18.52	0.00	53.53	68.20	-14.67
*	15840.00	Average	Н	-	-	-84.85	27.75	0.00	49.90	53.98	-4.08
*	15840.00	Peak	Н	-	-	-72.58	27.75	0.00	62.17	73.98	-11.81
*	21120.00	Average	Н	150	318	-62.24	-3.76	-9.54	31.46	53.98	-22.52
*	21120.00	Peak	Н	150	318	-50.83	-3.76	-9.54	42.87	73.98	-31.11
	26400.00	Peak	Н	-	-	-53.44	-2.81	-9.54	41.21	68.20	-26.99

Table 7-34. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5320MHz 64

* 106	640.00				[degree]	[dBm]	[dB/m]	Factor [dB]	Strength [dBµV/m]	[dBµV/m]	[dB]
100		Average	Н	-	-	-83.54	18.06	0.00	41.52	53.98	-12.46
* 450	640.00	Peak	н	-	-	-72.12	18.06	0.00	52.94	73.98	-21.04
155	960.00	Average	н	-	-	-86.41	28.47	0.00	49.06	53.98	-4.92
* 159	960.00	Peak	н	-	-	-73.50	28.47	0.00	61.97	73.98	-12.01
* 212	280.00	Average	н	150	318	-63.20	-3.71	-9.54	30.55	53.98	-23.43
* 212	280.00	Peak	н	150	318	-51.42	-3.71	-9.54	42.33	73.98	-31.65
266		Peak	Н	-	-	-52.48	-2.65	-9.54	42.32	68.20	-25.88

Table 7-35. Radiated Measurements SISO ANT1

FCC ID: A3LSMF916U	Proved to be part of @remove	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11a			
Worst Case Transfer Rate:	6Mbps			
Distance of Measurements:	1 & 3 Meters			
Operating Frequency:	5500MHz			
Channel:	100			

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	Н	-	-	-83.80	19.55	0.00	42.75	53.98	-11.23
*	11000.00	Peak	н	-	-	-72.69	19.55	0.00	53.86	73.98	-20.12
	16500.00	Peak	Н	-	-	-72.68	27.92	0.00	62.24	68.20	-5.96
	22000.00	Peak	Н	-	-	-53.20	-3.43	-9.54	40.83	68.20	-27.37
	27500.00	Peak	Н	-	-	-53.19	-2.72	-9.54	41.55	68.20	-26.65

Table 7-36. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5600MHz 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	н	-	-	-83.45	18.21	0.00	41.76	53.98	-12.21
*	11200.00	Peak	Н	-	-	-71.92	18.21	0.00	53.29	73.98	-20.68
	16800.00	Peak	н	-	-	-72.96	29.29	0.00	63.33	68.20	-4.87
*	22400.00	Average	н	-	-	-63.83	-3.34	-9.54	30.29	53.98	-23.69
*	22400.00	Peak	Н	-	-	-52.73	-3.34	-9.54	41.39	73.98	-32.59
	28000.00	Peak	Н	-	-	-53.28	-2.26	-9.54	41.91	68.20	-26.29

Table 7-37. Radiated Measurements SISO ANT1

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802.11a			
6Mbps			
1 & 3 Meters			
5720MHz			
144			

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	Н	-	-	-83.82	19.81	0.00	42.99	53.98	-10.99
*	11440.00	Peak	Н	-	-	-72.37	19.81	0.00	54.44	73.98	-19.54
	17160.00	Peak	н	-	-	-72.29	29.21	0.00	63.92	68.20	-4.28
*	22880.00	Average	н	-	-	-63.79	-3.38	-9.54	30.29	53.98	-23.69
*	22880.00	Peak	Н	-	-	-53.19	-3.38	-9.54	40.89	73.98	-33.09
	28600.00	Peak	Н	-	-	-53.05	-2.02	-9.54	42.39	68.20	-25.81

Table 7-38. Radiated Measurements SISO ANT1

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5745MHz 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	н	-	-	-83.59	20.17	0.00	43.58	53.98	-10.40
*	11490.00	Peak	Н	-	-	-72.28	20.17	0.00	54.89	73.98	-19.09
	17235.00	Peak	Н	-	-	-72.75	29.21	0.00	63.46	68.20	-4.74
*	22980.00	Average	Н	-	-	-64.37	-3.46	-9.54	29.63	53.98	-24.35
*	22980.00	Peak	Н	-	-	-53.40	-3.46	-9.54	40.60	73.98	-33.38
	28725.00	Peak	Н	-	-	-53.66	-2.02	-9.54	41.77	68.20	-26.43

Table 7-39. Radiated Measurements SISO ANT1

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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5785MHz
Channel:	157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	Н	-	-	-84.01	19.94	0.00	42.93	53.98	-11.05
*	11570.00	Peak	н	-	-	-72.69	19.94	0.00	54.25	73.98	-19.73
	17355.00	Peak	Н	-	-	-72.86	27.43	0.00	61.57	68.20	-6.63
	23140.00	Peak	н	-	-	-53.24	-3.47	-9.54	40.75	68.20	-27.45
	28925.00	Peak	Н	-	-	-53.91	-2.31	-9.54	41.24	68.20	-26.96

Table 7-40. Radiated Measurements SISO ANT1

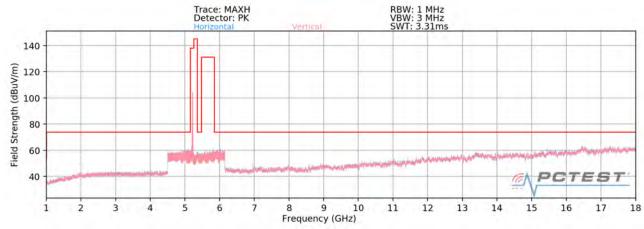
Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	Н	-	-	-83.93	20.39	0.00	43.46	53.98	-10.52
*	11650.00	Peak	Н	-	-	-72.82	20.39	0.00	54.57	73.98	-19.41
	17475.00	Peak	Н	-	-	-73.42	29.79	0.00	63.37	68.20	-4.83
	23300.00	Peak	Н	-	-	-53.32	-3.52	-9.54	40.62	68.20	-27.58
	29125.00	Peak	Н	-	-	-52.87	-1.91	-9.54	42.68	68.20	-25.52

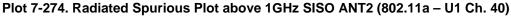
Table 7-41. Radiated Measurements SISO ANT1

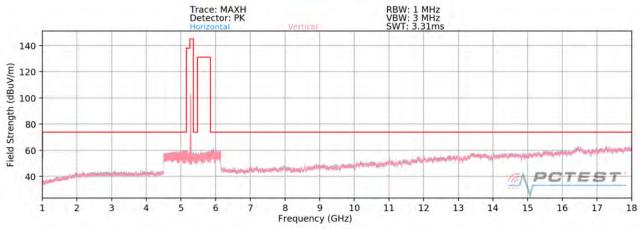
FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immer	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 192 of 242
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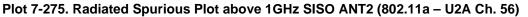


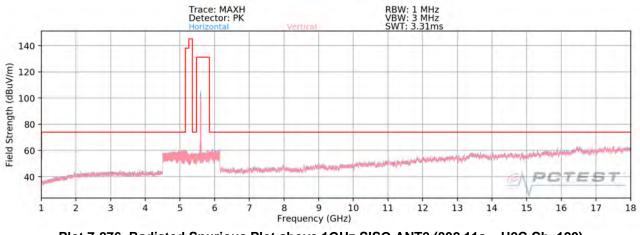


7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements





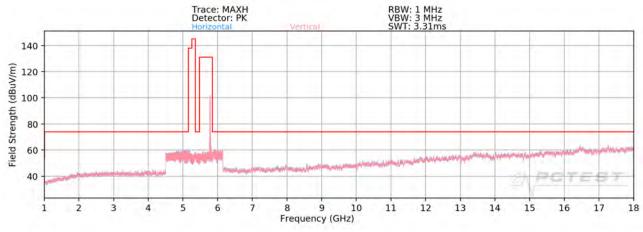




Plot 7-276. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U2C Ch. 120)

FCC ID: A3LSMF916U	PCTEST Provid to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 192 of 242
1M2005200087-09.A3L	6/11 - 8/07/2020	Portable Handset		Page 183 of 242
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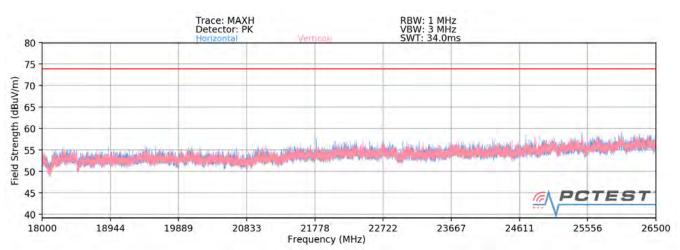




Plot 7-277. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

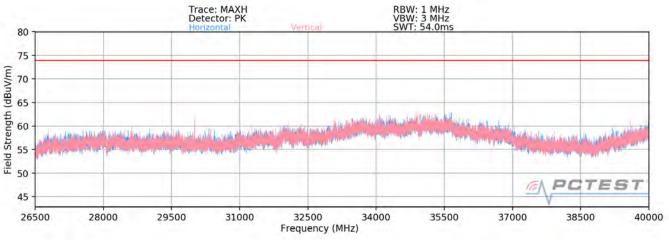
FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 184 of 242
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SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)





Plot 7-279. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 195 of 242
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SISO Antenna-2 Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	Н	-	-	-72.21	17.66	0.00	52.45	68.20	-15.75
*	15540.00	Average	н	-	-	-84.88	27.40	0.00	49.52	53.98	-4.46
*	15540.00	Peak	н	-	-	-72.56	27.40	0.00	61.84	73.98	-12.14
*	20720.00	Average	н	150	254	-64.25	-3.74	-9.54	29.47	53.98	-24.51
*	20720.00	Peak	н	150	254	-53.61	-3.74	-9.54	40.11	73.98	-33.87
	25900.00	Peak	Н	-	-	-52.78	-3.03	-9.54	41.65	68.20	-26.55

Table 7-42. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

_	802.11a
_	6Mbps
-	1 & 3 Meters
	5200MHz
	40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	Н	-	-	-70.34	17.05	0.00	53.71	68.20	-14.49
*	15600.00	Average	н	-	-	-85.27	27.72	0.00	49.45	53.98	-4.53
*	15600.00	Peak	н	-	-	-71.64	27.72	0.00	63.08	73.98	-10.90
*	20800.00	Average	н	-	-	-64.84	-3.76	-9.54	28.86	53.98	-25.12
*	20800.00	Peak	н	-	-	-54.82	-3.76	-9.54	38.88	73.98	-35.10
	26000.00	Peak	Н	-	-	-52.75	-2.81	-9.54	41.90	68.20	-26.30

Table 7-43. Radiated Measurements SISO ANT2

FCC ID: A3LSMF916U	Provid to be part of @remining	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 196 of 242
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5240MHz
Channel:	48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	н	-	-	-72.61	18.64	0.00	53.03	68.20	-15.17
*	15720.00	Average	н	-	-	-85.13	28.05	0.00	49.92	53.98	-4.06
*	15720.00	Peak	Н	-	-	-72.46	28.05	0.00	62.59	73.98	-11.39
*	20960.00	Average	Н	-	-	-64.19	-3.71	-9.54	29.56	53.98	-24.42
*	20960.00	Peak	Н	-	-	-53.72	-3.71	-9.54	40.03	73.98	-33.95
	26200.00	Peak	Н	-	-	-52.97	-2.65	-9.54	41.83	68.20	-26.37

Table 7-44. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5260MHz 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	н	-	-	-72.67	19.03	0.00	53.36	68.20	-14.84
*	15780.00	Average	Н	-	-	-85.00	27.96	0.00	49.96	53.98	-4.02
*	15780.00	Peak	Н	-	-	-73.23	27.96	0.00	61.73	73.98	-12.25
*	21040.00	Average	Н	-	-	-64.21	-3.74	-9.54	29.51	53.98	-24.47
*	21040.00	Peak	Н	-	-	-53.55	-3.74	-9.54	40.17	73.98	-33.81
	26300.00	Peak	Н	-	-	-53.23	-3.03	-9.54	41.20	68.20	-27.00

Table 7-45. Radiated Measurements SISO ANT2

FCC ID: A3LSMF916U	PCTEST Proxit to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dega 197 of 242
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	Н	-	-	-72.10	18.52	0.00	53.42	68.20	-14.78
*	15840.00	Average	Н	-	-	-84.80	27.75	0.00	49.95	53.98	-4.03
*	15840.00	Peak	н	-	-	-73.32	27.75	0.00	61.43	73.98	-12.55
*	21120.00	Average	н	-	-	-63.93	-3.76	-9.54	29.77	53.98	-24.21
*	21120.00	Peak	н	-	-	-54.32	-3.76	-9.54	39.38	73.98	-34.60
	26400.00	Peak	Н	-	-	-53.13	-2.81	-9.54	41.52	68.20	-26.68

Table 7-46. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5320MHz 64

н	-				[dB]	[dBµV/m]		[dB]
		-	-83.63	18.06	0.00	41.43	53.98	-12.55
Н	-	-	-72.55	18.06	0.00	52.51	73.98	-21.47
н	-	-	-84.73	28.47	0.00	50.74	53.98	-3.24
н	-	-	-73.48	28.47	0.00	61.99	73.98	-11.99
н	-	-	-64.39	-3.71	-9.54	29.36	53.98	-24.62
н	-	-	-53.76	-3.71	-9.54	39.99	73.98	-33.99
н	-	-	-52.18	-2.65	-9.54	42.62	68.20	-25.58
	H	H -	H H H	H - - -64.39 H - - -53.76 H - - -52.18	H - - -64.39 -3.71 H - - -53.76 -3.71 H - - -52.18 -2.65	H - - -64.39 -3.71 -9.54 H - - -53.76 -3.71 -9.54 H - - -52.18 -2.65 -9.54	H - - -64.39 -3.71 -9.54 29.36 H - - -53.76 -3.71 -9.54 39.99 H - - -52.18 -2.65 -9.54 42.62	H - -64.39 -3.71 -9.54 29.36 53.98 H - - -53.76 -3.71 -9.54 39.99 73.98 H - - -52.18 -2.65 -9.54 42.62 68.20

Table 7-47. Radiated Measurements SISO ANT2

FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 199 of 242
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5500MHz
Channel:	100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	Н	-	-	-83.88	19.55	0.00	42.67	53.98	-11.31
*	11000.00	Peak	н	-	-	-72.43	19.55	0.00	54.12	73.98	-19.86
	16500.00	Peak	Н	-	-	-72.99	27.92	0.00	61.93	68.20	-6.27
	22000.00	Peak	Н	-	-	-52.26	-3.43	-9.54	41.77	68.20	-26.43
	27500.00	Peak	Н	-	-	-53.17	-2.72	-9.54	41.57	68.20	-26.63

 Table 7-48. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5600MHz 120

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	н	-	-	-83.26	18.21	0.00	41.95	53.98	-12.02
*	11200.00	Peak	Н	-	-	-71.90	18.21	0.00	53.31	73.98	-20.66
	16800.00	Peak	н	-	-	-72.91	29.29	0.00	63.38	68.20	-4.82
*	22400.00	Average	н	-	-	-63.73	-3.34	-9.54	30.39	53.98	-23.59
*	22400.00	Peak	Н	-	-	-53.55	-3.34	-9.54	40.57	73.98	-33.41
	28000.00	Peak	Н	-	-	-53.62	-2.26	-9.54	41.57	68.20	-26.63

Table 7-49. Radiated Measurements SISO ANT2

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ main	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 190 of 242
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802.11a
6Mbps
1 & 3 Meters
5720MHz
144

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	Н	-	-	-83.85	19.81	0.00	42.96	53.98	-11.02
*	11440.00	Peak	Н	-	-	-71.60	19.81	0.00	55.21	73.98	-18.77
	17160.00	Peak	н	-	-	-72.71	29.21	0.00	63.50	68.20	-4.70
*	22880.00	Average	н	-	-	-63.89	-3.38	-9.54	30.19	53.98	-23.79
*	22880.00	Peak	Н	-	-	-52.65	-3.38	-9.54	41.43	73.98	-32.55
	28600.00	Peak	Н	-	-	-53.44	-2.02	-9.54	42.00	68.20	-26.20

Table 7-50. Radiated Measurements SISO ANT2

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5745MHz 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	н	-	-	-83.70	20.17	0.00	43.47	53.98	-10.51
*	11490.00	Peak	Н	-	-	-71.13	20.17	0.00	56.04	73.98	-17.94
	17235.00	Peak	Н	-	-	-73.23	29.21	0.00	62.98	68.20	-5.22
*	22980.00	Average	Н	-	-	-64.14	-3.46	-9.54	29.86	53.98	-24.12
*	22980.00	Peak	Н	-	-	-53.55	-3.46	-9.54	40.45	73.98	-33.53
	28725.00	Peak	Н	-	-	-51.98	-2.02	-9.54	43.45	68.20	-24.75

 Table 7-51. Radiated Measurements SISO ANT2

FCC ID: A3LSMF916U	PCTEST Proxit to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 242
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5785MHz
Channel:	157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	н	-	-	-83.95	19.94	0.00	42.99	53.98	-10.99
*	11570.00	Peak	н	-	-	-72.81	19.94	0.00	54.13	73.98	-19.85
	17355.00	Peak	н	-	-	-73.10	27.43	0.00	61.33	68.20	-6.87
	23140.00	Peak	н	-	-	-52.88	-3.47	-9.54	41.11	68.20	-27.09
	28925.00	Peak	Н	-	-	-53.63	-2.31	-9.54	41.52	68.20	-26.68

 Table 7-52. Radiated Measurements SISO ANT2

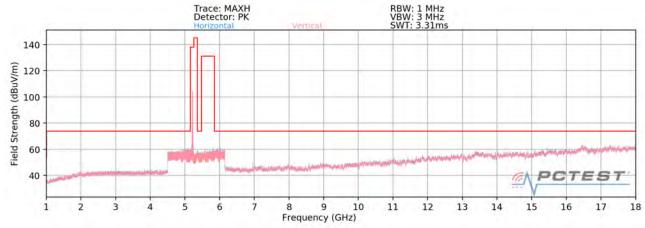
Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel: 802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	Н	-	-	-83.82	20.39	0.00	43.57	53.98	-10.41
*	11650.00	Peak	н	-	-	-72.72	20.39	0.00	54.67	73.98	-19.31
	17475.00	Peak	н	-	-	-73.87	29.79	0.00	62.92	68.20	-5.28
	23300.00	Peak	н	-	-	-53.13	-3.52	-9.54	40.81	68.20	-27.39
	29125.00	Peak	Н	-	-	-53.05	-1.91	-9.54	42.50	68.20	-25.70

Table 7-53. Radiated Measurements SISO ANT2

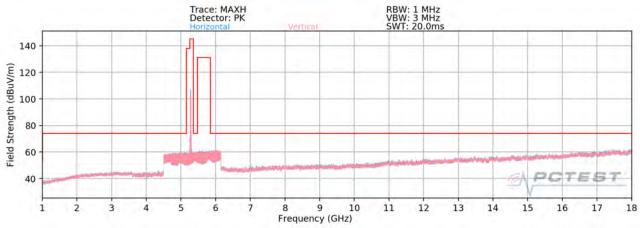
FCC ID: A3LSMF916U	PCTEST Proud to be part of @ immer	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 101 of 242
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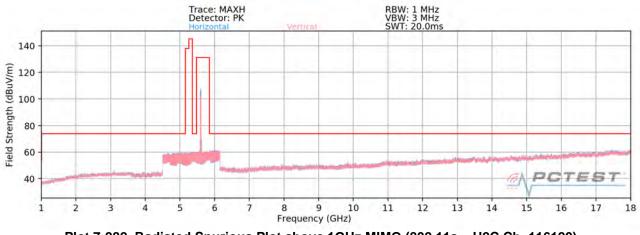


7.6.3 MIMO Radiated Spurious Emission Measurements





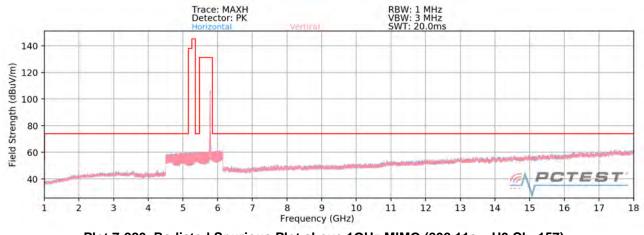




Plot 7-282. Radiated Spurious Plot above 1GHz MIMO (802.11a – U2C Ch. 116120)

FCC ID: A3LSMF916U	PCTEST Proved to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 102 of 242
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Plot 7-283. Radiated Spurious Plot above 1GHz MIMO (802.11a - U3 Ch. 157)

FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 102 of 242
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MIMO Radiated Spurious Emission Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5180MHz
Channel:	36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	314	319	-64.93	12.76	0.00	54.83	68.20	-13.37
*	15540.00	Average	V	-	-	-83.76	15.66	0.00	38.90	53.98	-15.07
*	15540.00	Peak	V	-	-	-71.48	15.66	0.00	51.18	73.98	-22.79
*	20720.00	Average	V	150	320	-63.62	-3.74	-9.54	30.10	53.98	-23.88
*	20720.00	Peak	V	150	320	-50.76	-3.74	-9.54	42.96	73.98	-31.02
	25900.00	Peak	V	-	-	-53.08	-3.03	-9.54	41.35	68.20	-26.85

Table 7-54. Radiated Measurements MIMO

Worst Case Mode: Worst Case Transfer Rate: Distance of Measurements: Operating Frequency: Channel:

802.11a
6Mbps
1 & 3 Meters
5200MHz
40

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10400.00	Peak	V	312	321	-64.49	12.52	0.00	55.03	68.20	-13.17
*	15600.00	Average	V	-	-	-83.78	16.09	0.00	39.31	53.98	-14.67
*	15600.00	Peak	V	-	-	-71.96	16.09	0.00	51.13	73.98	-22.85
*	20800.00	Average	V	150	320	-64.20	-3.76	-9.54	29.50	53.98	-24.48
*	20800.00	Peak	V	150	320	-52.56	-3.76	-9.54	41.14	73.98	-32.84
	26000.00	Peak	V	-	-	-51.37	-2.81	-9.54	43.28	68.20	-24.92

Table 7-55. Radiated Measurements MIMO

FCC ID: A3LSMF916U	Proved to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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802.11a
6Mbps
1 & 3 Meters
5240MHz
48

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correctio n Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10480.00	Peak	V	306	315	-65.90	12.52	0.00	53.62	68.20	-14.58
*	15720.00	Average	V	-	-	-84.79	16.17	0.00	38.38	53.98	-15.60
*	15720.00	Peak	V	-	-	-73.10	16.17	0.00	50.07	73.98	-23.91
*	20960.00	Average	V	-	-	-64.03	-3.71	-9.54	29.72	53.98	-24.26
*	20960.00	Peak	V	-	-	-53.32	-3.71	-9.54	40.43	73.98	-33.55
	26200.00	Peak	V	-	-	-53.24	-2.65	-9.54	41.56	68.20	-26.64

Table 7-56. Radiated Measurements MIMO

802.11a 6Mbps 1 & 3 Meters 5260MHz 52

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10520.00	Peak	V	112	319	-65.88	13.09	0.00	54.21	68.20	-13.99
*	15780.00	Average	V	-	-	-83.88	16.22	0.00	39.34	53.98	-14.64
*	15780.00	Peak	V	-	-	-71.98	16.22	0.00	51.24	73.98	-22.74
*	21040.00	Average	V	-	-	-64.29	-3.74	-9.54	29.43	53.98	-24.55
*	21040.00	Peak	V	-	-	-52.70	-3.74	-9.54	41.02	73.98	-32.96
	26300.00	Peak	V	-	-	-52.20	-3.03	-9.54	42.23	68.20	-25.97

Table 7-57. Radiated Measurements MIMO

FCC ID: A3LSMF916U	PCTEST Proved to be part of @remain	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5280MHz
Channel:	56

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10560.00	Peak	V	111	321	-67.67	13.76	0.00	53.09	68.20	-15.11
*	15840.00	Average	V	-	-	-84.34	15.82	0.00	38.48	53.98	-15.50
*	15840.00	Peak	V	-	-	-72.21	15.82	0.00	50.61	73.98	-23.37
*	21120.00	Average	V	-	-	-64.11	-3.76	-9.54	29.59	53.98	-24.39
*	21120.00	Peak	V	-	-	-53.18	-3.76	-9.54	40.52	73.98	-33.46
	26400.00	Peak	V	-	-	-52.47	-2.81	-9.54	42.18	68.20	-26.02

Table 7-58. Radiated Measurements MIMO

802.11a 6Mbps 1 & 3 Meters 5320MHz 64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	V	114	318	-79.76	13.66	0.00	40.90	53.98	-13.08
*	10640.00	Peak	V	114	318	-67.40	13.66	0.00	53.26	73.98	-20.72
*	15960.00	Average	V	-	-	-83.76	15.05	0.00	38.29	53.98	-15.68
*	15960.00	Peak	V	-	-	-71.57	15.05	0.00	50.48	73.98	-23.49
*	21280.00	Average	V	-	-	-64.45	-3.71	-9.54	29.30	53.98	-24.68
*	21280.00	Peak	V	-	-	-53.39	-3.71	-9.54	40.36	73.98	-33.62
	26600.00	Peak	V	-	-	-52.76	-2.65	-9.54	42.04	68.20	-26.16

Table 7-59. Radiated Measurements MIMO

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5500MHz
Channel:	100

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Factor	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11000.00	Average	V	334	32	-82.28	13.62	0.00	38.34	53.98	-15.64
*	11000.00	Peak	V	334	32	-69.80	13.62	0.00	50.82	73.98	-23.16
	16500.00	Peak	V	-	-	-72.20	15.75	0.00	50.55	68.20	-17.65
	22000.00	Peak	V	-	-	-53.12	-3.43	-9.54	40.91	68.20	-27.29
	27500.00	Peak	V	-	-	-52.75	-2.72	-9.54	41.99	68.20	-26.21

Table 7-60. Radiated Measurements MIMO
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802.11a 6Mbps 1 & 3 Meters 5580MHz 116

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11200.00	Average	V	-	-	-83.21	14.26	0.00	38.05	53.98	-15.93
*	11200.00	Peak	V	-	-	-70.90	14.26	0.00	50.36	73.98	-23.62
	16800.00	Peak	V	-	-	-71.56	16.67	0.00	52.11	68.20	-16.09
*	22400.00	Average	V	-	-	-63.66	-3.34	-9.54	30.46	53.98	-23.52
*	22400.00	Peak	V	-	-	-52.79	-3.34	-9.54	41.33	73.98	-32.65
	28000.00	Peak	V	-	-	-52.80	-2.26	-9.54	42.39	68.20	-25.81

Table 7-61. Radiated Measurements MIMO

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5700MHz
Channel:	140

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]		Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11440.00	Average	V	-	-	-83.02	14.25	0.00	38.23	53.98	-15.74
*	11440.00	Peak	V	-	-	-70.98	14.25	0.00	50.27	73.98	-23.70
	17160.00	Peak	V	-	-	-70.48	18.43	0.00	54.95	68.20	-13.25
*	22880.00	Average	V	-	-	-64.12	-3.38	-9.54	29.96	53.98	-24.02
*	22880.00	Peak	V	-	-	-53.82	-3.38	-9.54	40.26	73.98	-33.72
	28600.00	Peak	V	-	-	-53.21	-2.02	-9.54	42.23	68.20	-25.97

Table 7-62. Radiated Measurements MIMO

802.11a 6Mbps 1 & 3 Meters 5745MHz 149

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11490.00	Average	V	-	-	-83.71	14.74	0.00	38.03	53.98	-15.95
*	11490.00	Peak	V	-	-	-71.42	14.74	0.00	50.32	73.98	-23.66
	17235.00	Peak	V	-	-	-71.43	18.65	0.00	54.22	68.20	-13.98
*	22980.00	Average	V	-	-	-64.10	-3.46	-9.54	29.90	53.98	-24.08
*	22980.00	Peak	V	-	-	-53.07	-3.46	-9.54	40.93	73.98	-33.05
	28725.00	Peak	V	-	-	-53.15	-2.02	-9.54	42.28	69.20	-26.92

Table 7-63. Radiated Measurements MIMO

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5785MHz
Channel:	157

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	L Factor	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11570.00	Average	V	-	-	-83.03	14.20	0.00	38.17	53.98	-15.81
*	11570.00	Peak	V	-	-	-70.92	14.20	0.00	50.28	73.98	-23.70
	17355.00	Peak	V	-	-	-71.64	21.29	0.00	56.65	68.20	-11.55
	23140.00	Peak	V	-	-	-54.06	-3.47	-9.54	39.93	68.20	-28.27
	28925.00	Peak	V	-	-	-53.43	-2.31	-9.54	41.72	68.20	-26.48

802.11a 6Mbps 1 & 3 Meters 5825MHz 165

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	11650.00	Average	V	-	-	-83.18	14.27	0.00	38.09	53.98	-15.89
*	11650.00	Peak	V	-	-	-70.86	14.27	0.00	50.41	73.98	-23.57
	17475.00	Peak	V	-	-	-71.16	20.81	0.00	56.65	68.20	-11.55
	23300.00	Peak	V	-	-	-53.26	-3.52	-9.54	40.68	68.20	-27.52
	29125.00	Peak	V	-	-	-52.13	-1.91	-9.54	43.42	68.20	-24.78

Table 7-65. Radiated Measurements MIMO

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 100 of 242	
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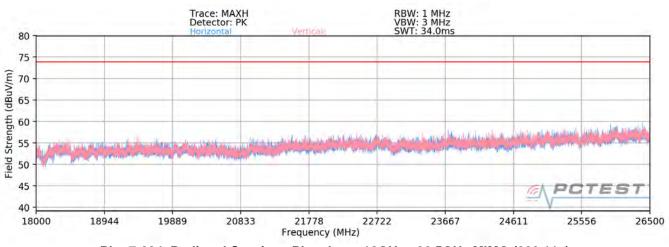
Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	1 & 3 Meters
Operating Frequency:	5320MHz
Channel:	64

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
*	10640.00	Average	н	-	-	-83.73	18.06	0.00	41.33	53.98	-12.65
*	10640.00	Peak	Н	-	-	-72.40	18.06	0.00	52.66	73.98	-21.32
*	15960.00	Average	Н	-	-	-84.83	28.47	0.00	50.64	53.98	-3.34
*	15960.00	Peak	Н	-	-	-73.18	28.47	0.00	62.29	73.98	-11.69
*	21280.00	Average	Н	-	-	-64.21	-3.46	-9.54	29.79	53.98	-24.19
*	21280.00	Peak	Н	-	-	-53.11	-3.46	-9.54	40.89	73.98	-33.09
	26600.00	Peak	Н	-	-	-55.21	-2.02	-9.54	40.23	68.20	-27.97

Table 7-66. Radiated Measurements MIMO with WCP

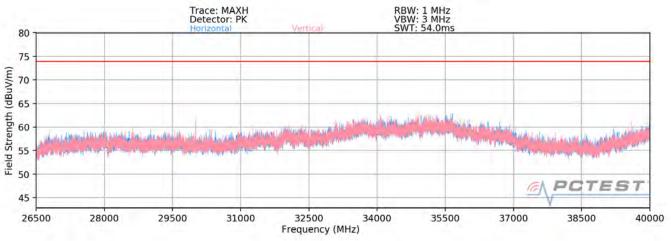
FCC ID: A3LSMF916U	PCTEST Proud to be part of @ minim	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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MIMO Radiated Spurious Emissions Measurements (Above 18GHz)





Plot 7-285. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

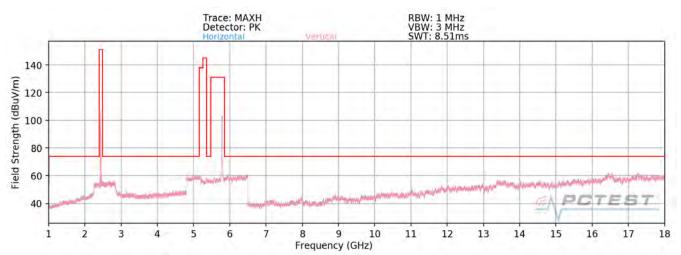
FCC ID: A3LSMF916U	PCTEST Proud to be part of @	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 201 of 242
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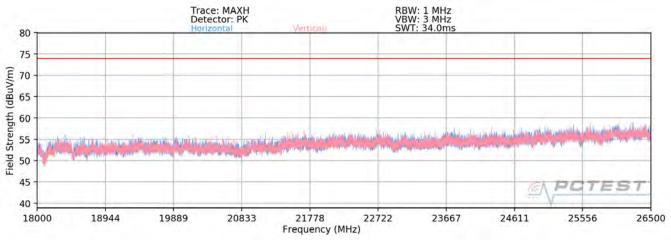
7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	6	157
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	1	6.5/7.2
Mode	b	n

Table 7-67. Simultaneous Transmission Config-1



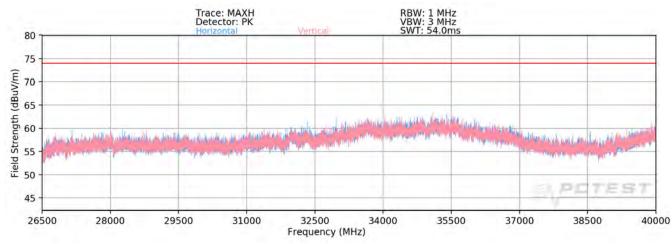
Plot 7-286. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)

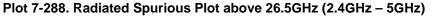


Plot 7-287. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @remine	MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
911.00	Peak	Н	-	-	-79.46	-2.83	24.71	68.20	-43.49
4259.00	Average	Н	-	-	-77.84	9.70	38.86	53.98	-15.12
4259.00	Peak	н	-	-	-66.49	9.70	50.21	73.98	-23.77
7607.00	Average	Н	-	-	-79.54	15.28	42.74	53.98	-11.24
7607.00	Peak	Н	-	-	-68.20	15.28	54.08	73.98	-19.90
9133.00	Average	Н	-	-	-79.83	17.94	45.11	53.98	-8.87
9133.00	Peak	Н	-	-	-68.29	17.94	56.65	73.98	-17.33
10955.00	Average	Н	-	-	-79.49	20.71	48.22	53.98	-5.76
10955.00	Peak	Н	-	-	-68.30	20.71	59.41	73.98	-14.57
12481.00	Average	Н	-	-	-83.27	23.15	46.88	53.98	-7.10
12481.00	Peak	Н	-	-	-72.27	23.15	57.88	73.98	-16.10

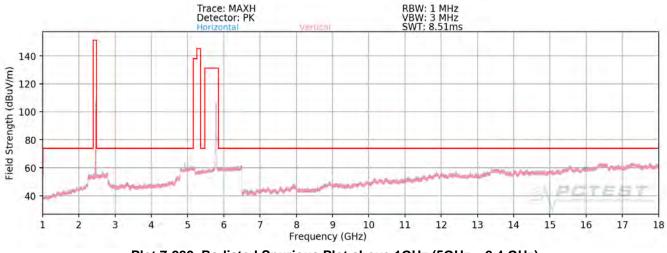
Table 7-68. Radiated Measurements (ANT1 2.4GHz - ANT2 5GHz)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	6	149
Operating Frequency (MHz)	2437	5745
Data Rate (Mbps)	1	6
Mode	b	а

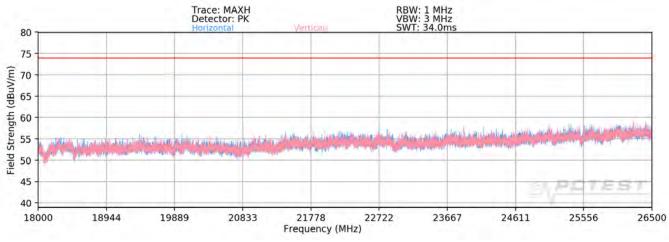
Table 7-69. Simultaneous Transmission Config-2

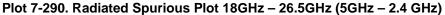


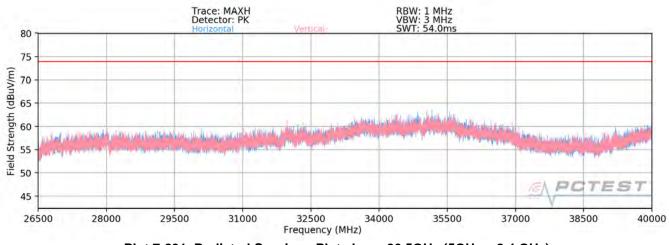
Plot 7-289. Radiated Spurious Plot above 1GHz (5GHz - 2.4 GHz)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ Financian	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-291. Radiated Spurious Plot above 26.5GHz (5GHz - 2.4 GHz)

FCC ID: A3LSMF916U	PCTEST Proud to be part of @ main	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
861.00	Peak	Н	-	-	-79.34	-3.54	24.12	68.20	-44.08
4184.00	Average	Н	-	-	-78.04	10.28	39.24	53.98	-14.74
4184.00	Peak	Н	-	-	-66.70	10.28	50.58	73.98	-23.40
7507.00	Average	Н	-	-	-79.48	15.02	42.54	53.98	-11.44
7507.00	Peak	н	-	-	-68.78	15.02	53.24	73.98	-20.74
9108.00	Average	н	-	-	-80.01	18.31	45.30	53.98	-8.68
9108.00	Peak	н	-	-	-67.93	18.31	57.38	73.98	-16.60
10830.00	Average	н	-	-	-79.64	20.19	47.55	53.98	-6.43
10830.00	Peak	н	-	-	-68.61	20.19	58.58	73.98	-15.40
12431.00	Average	Н	-	-	-83.68	22.86	46.18	53.98	-7.80
12431.00	Peak	Н	-	-	-72.50	22.86	57.36	73.98	-16.62

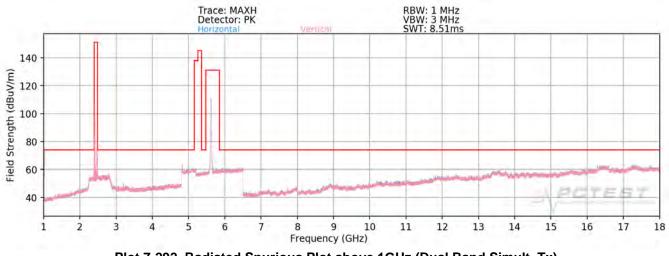
Table 7-70. Radiated Measurements (ANT1 5GHz – ANT2 2.4GHz)

FCC ID: A3LSMF916U	Proud to be part at @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 206 of 242
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Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	165
Operating Frequency (MHz)	2437	5825
Data Rate (Mbps)	6	6.5/7.2
Mode	g	n

Table 7-71. Dual Band Simultaneous Transmission



Plot 7-292. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)

FCC ID: A3LSMF916U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 207 of 242
1M2005200087-09.A3L	6/11 - 8/07/2020	Portable Handset		Page 207 of 242
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