

SISO Antenna-1 Power Spectral Density Measurements (242 Tones)

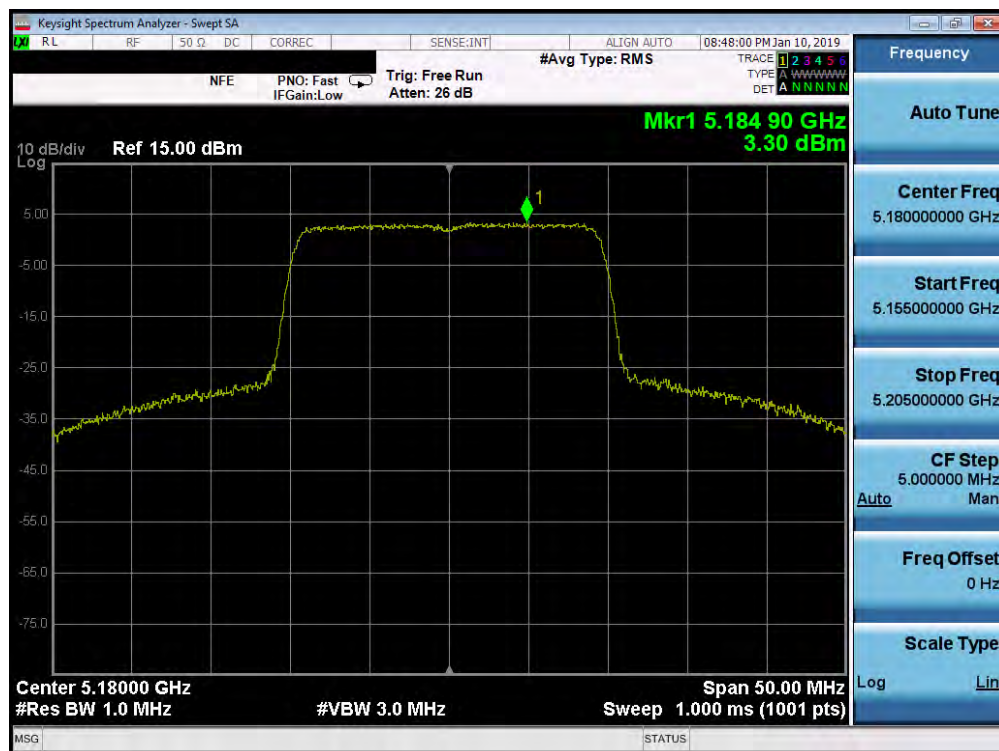
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	11.00	-7.70
	5200	40	ax (20MHz)	242T	MCS0	6.19	11.00	-4.81
	5240	48	ax (20MHz)	242T	MCS0	7.55	11.00	-3.45
	5190	38	ax (40MHz)	242T	MCS0	0.89	11.00	-10.11
	5230	46	ax (40MHz)	242T	MCS0	5.37	11.00	-5.63
	5210	42	ax (80MHz)	242T	MCS0	-0.57	11.00	-11.57
Band 2A	5260	52	ax (20MHz)	242T	MCS0	7.56	11.00	-3.44
	5280	56	ax (20MHz)	242T	MCS0	8.05	11.00	-2.95
	5320	64	ax (20MHz)	242T	MCS0	5.00	11.00	-6.00
	5270	54	ax (40MHz)	242T	MCS0	5.39	11.00	-5.61
	5310	62	ax (40MHz)	242T	MCS0	0.39	11.00	-10.61
	5290	58	ax (80MHz)	242T	MCS0	-0.54	11.00	-11.54
Band 2C	5500	100	ax (20MHz)	242T	MCS0	7.93	11.00	-3.07
	5600	120	ax (20MHz)	242T	MCS0	6.54	11.00	-4.46
	5720	144	ax (20MHz)	242T	MCS0	6.66	11.00	-4.34
	5510	102	ax (40MHz)	242T	MCS0	0.11	11.00	-10.89
	5590	118	ax (40MHz)	242T	MCS0	4.24	11.00	-6.76
	5710	142	ax (40MHz)	242T	MCS0	4.61	11.00	-6.39
	5530	106	ax (80MHz)	242T	MCS0	0.64	11.00	-10.36
	5610	122	ax (80MHz)	242T	MCS0	6.19	11.00	-4.81
	5690	138	ax (80MHz)	242T	MCS0	6.44	11.00	-4.56

Table 7-72. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

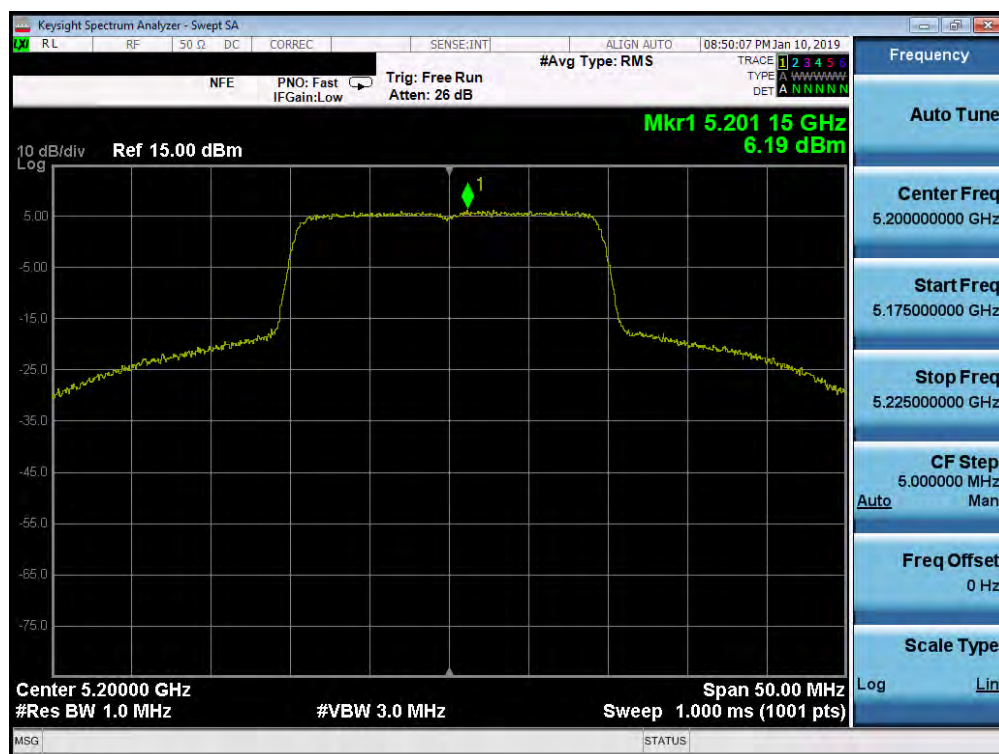
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	3.30	-7.94	-4.64	10.0	-14.64
	5200	40	ax (20MHz)	242T	MCS0	6.19	-7.51	-1.32	10.0	-11.32
	5240	48	ax (20MHz)	242T	MCS0	7.55	-7.44	0.11	10.0	-9.89
	5190	38	ax (40MHz)	242T	MCS0	0.89	-7.94	-7.05	10.0	-17.05
	5230	46	ax (40MHz)	242T	MCS0	5.37	-7.44	-2.07	10.0	-12.07
	5210	42	ax (80MHz)	242T	MCS0	-0.57	-7.94	-8.51	10.0	-18.51

Table 7-73. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 242 Tones)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 152 of 514

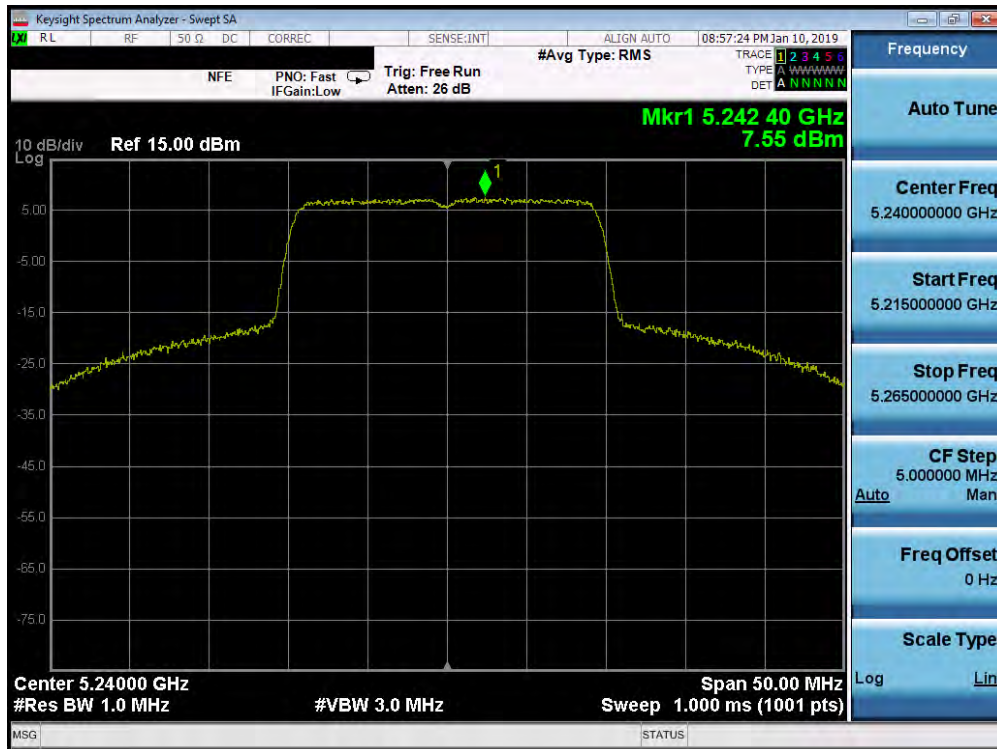


Plot 7-190. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 36)

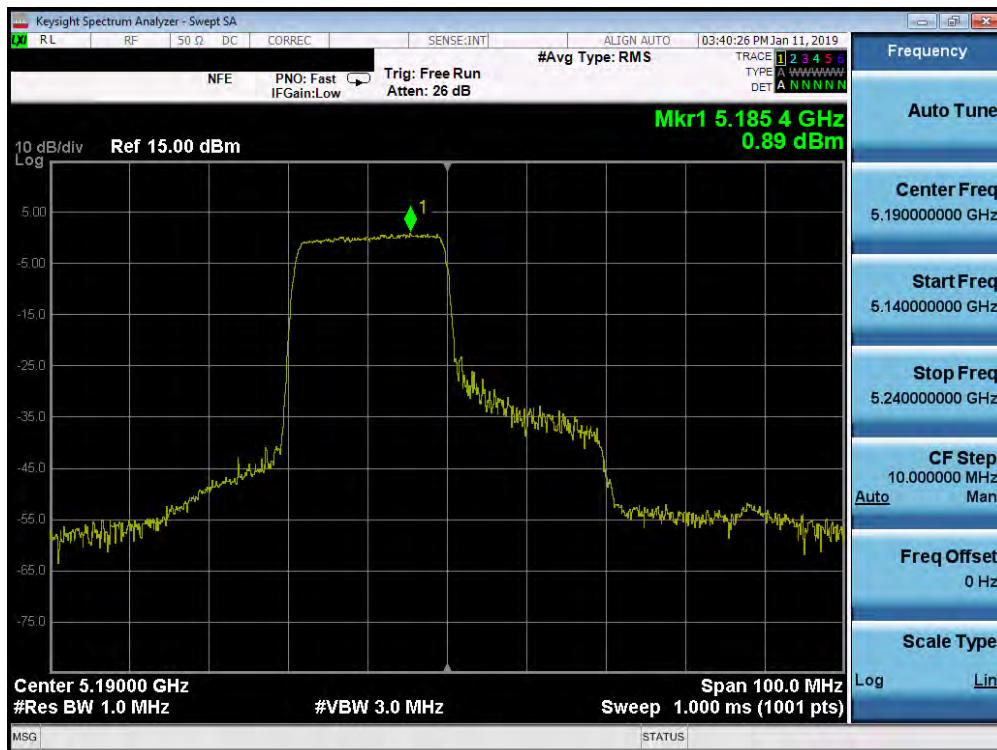


Plot 7-191. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 153 of 514

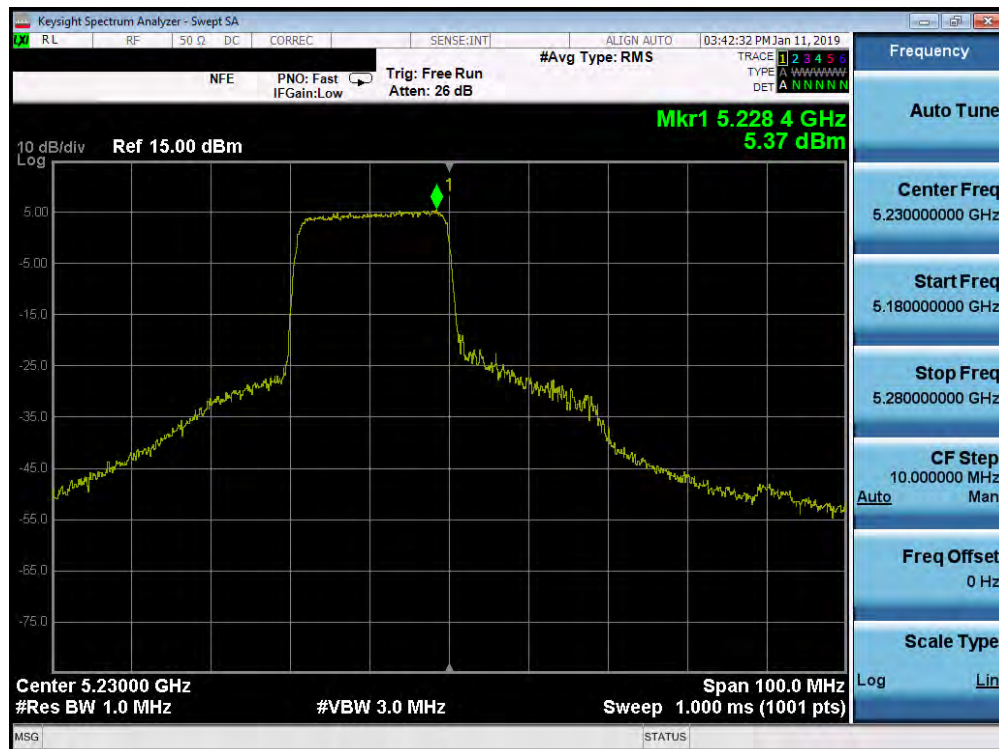


Plot 7-192. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 48)

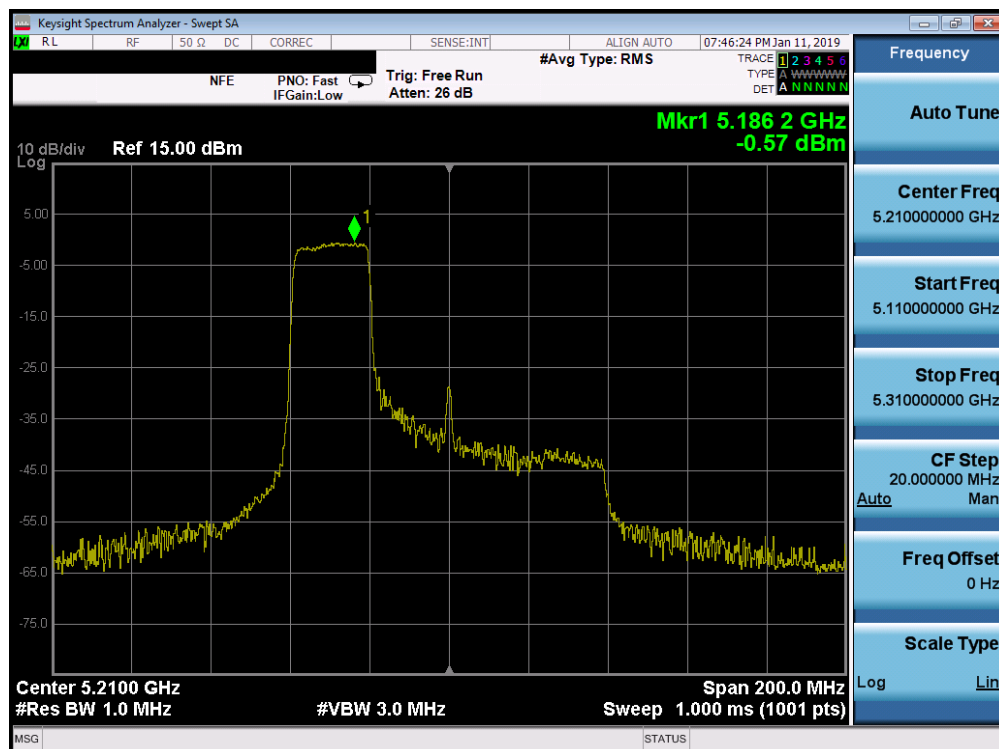


Plot 7-193. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 154 of 514

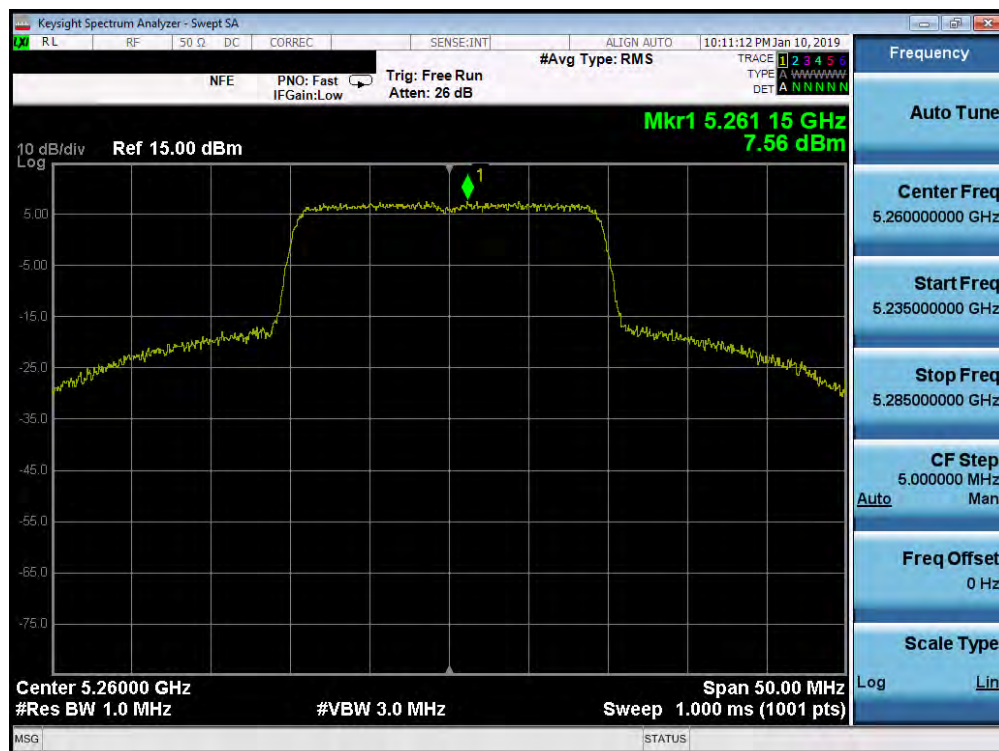


Plot 7-194. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 46)

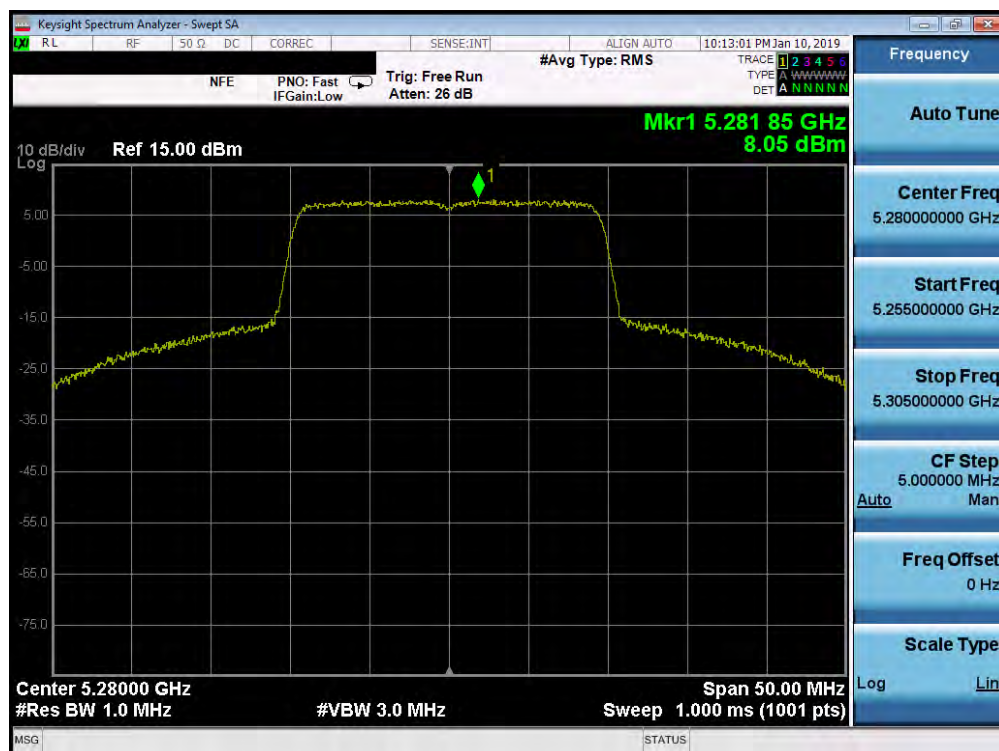


Plot 7-195. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 155 of 514

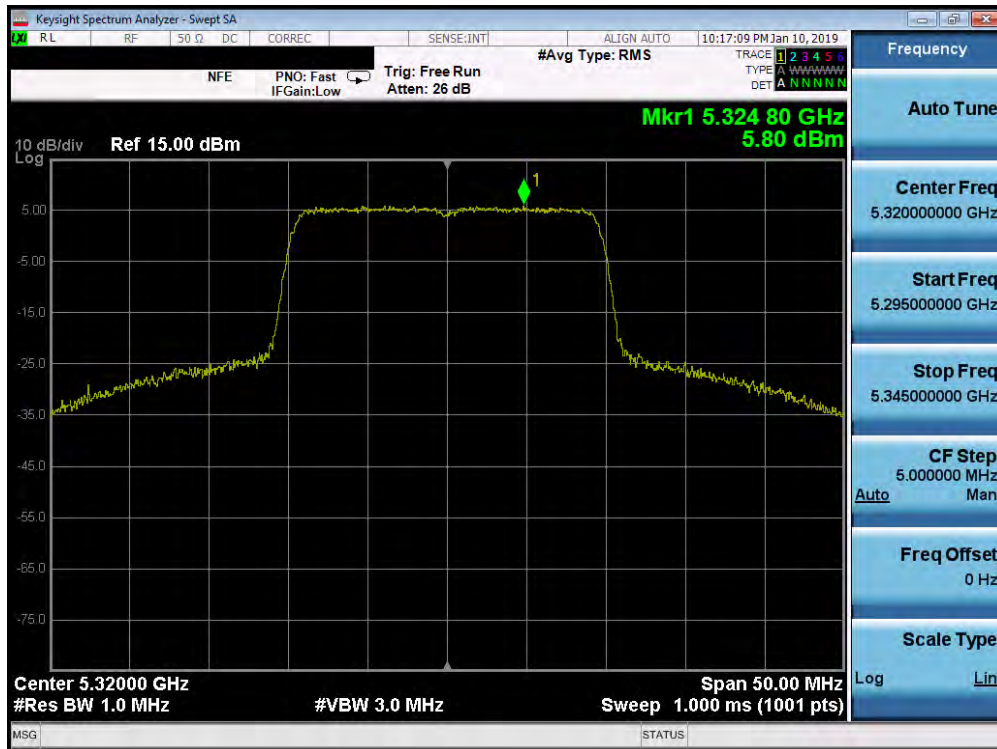


Plot 7-196. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 52)

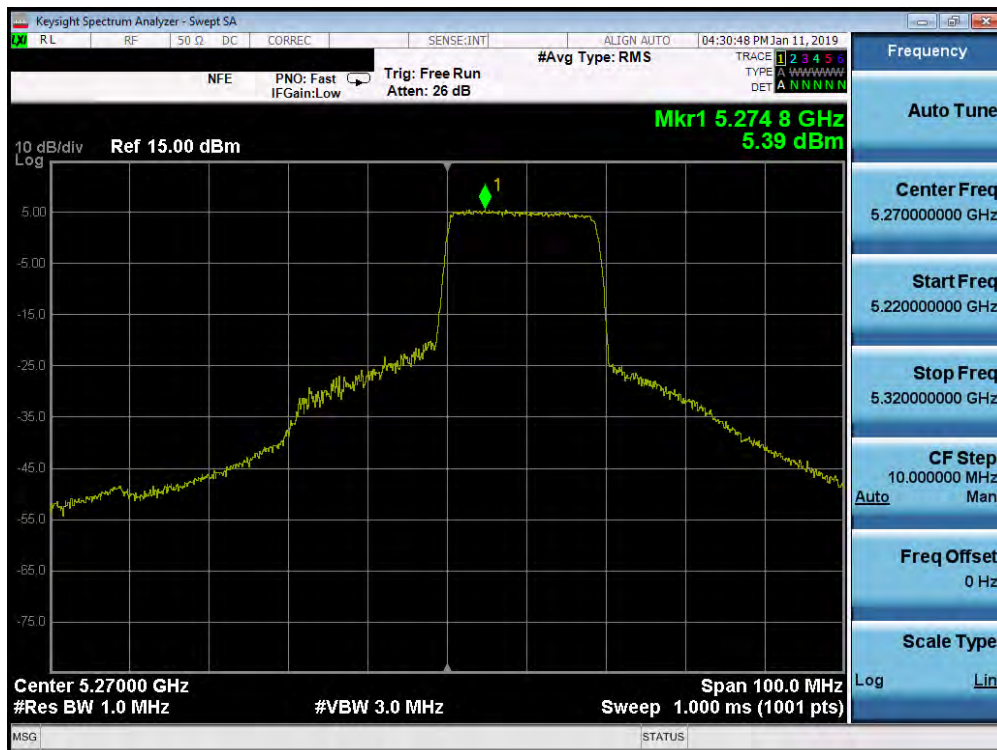


Plot 7-197. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 156 of 514

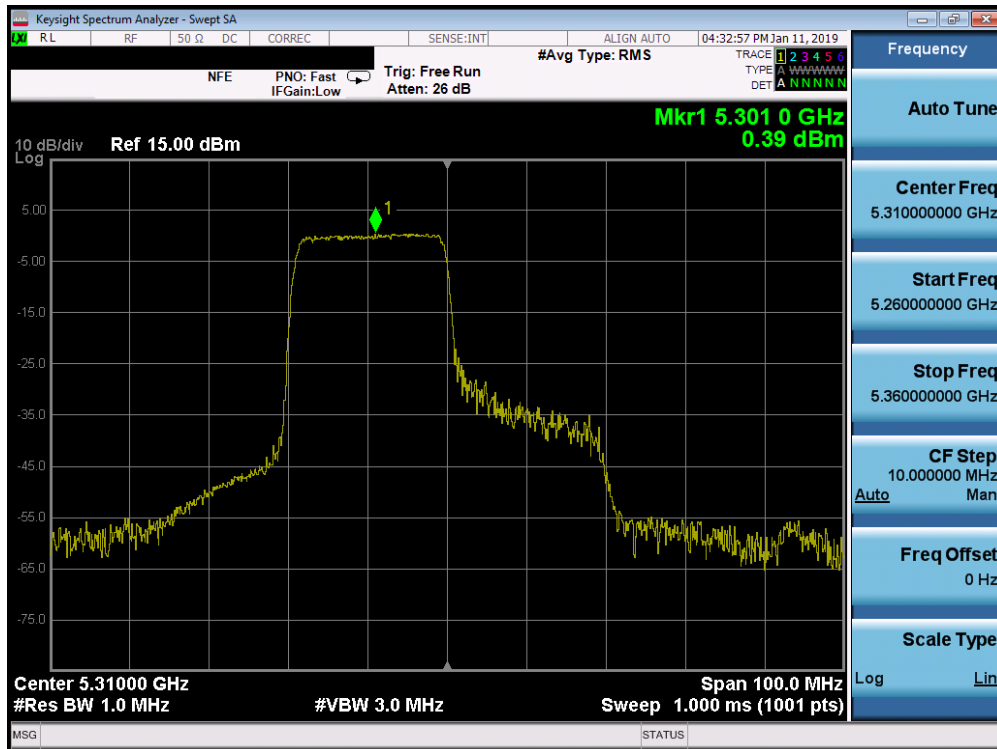


Plot 7-198. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 64)

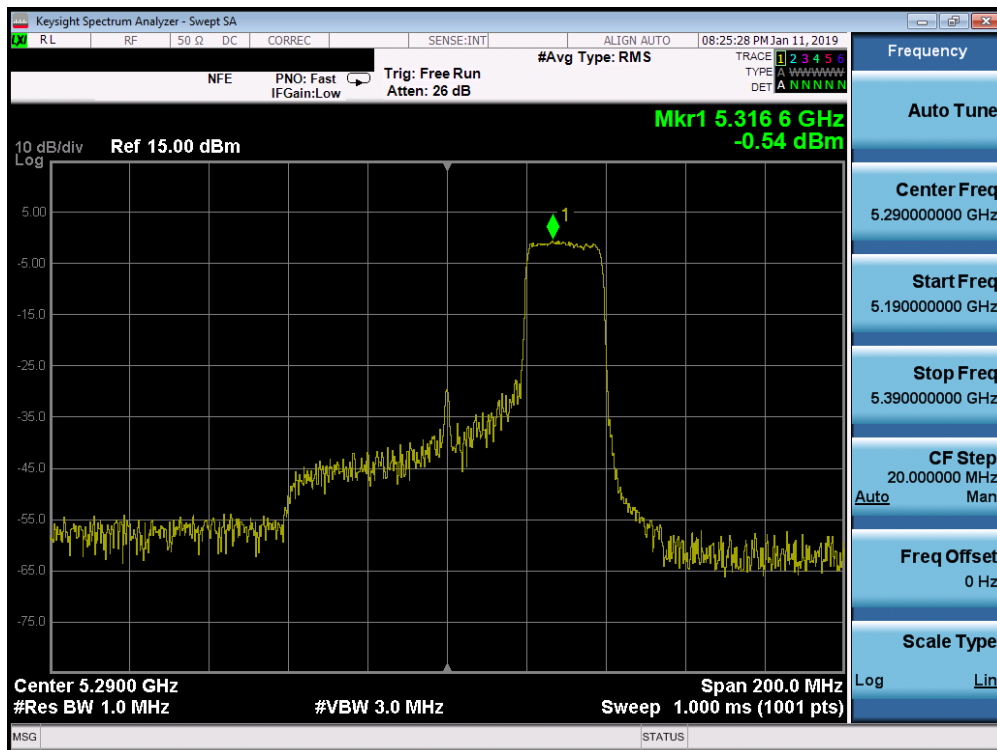


Plot 7-199. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 157 of 514

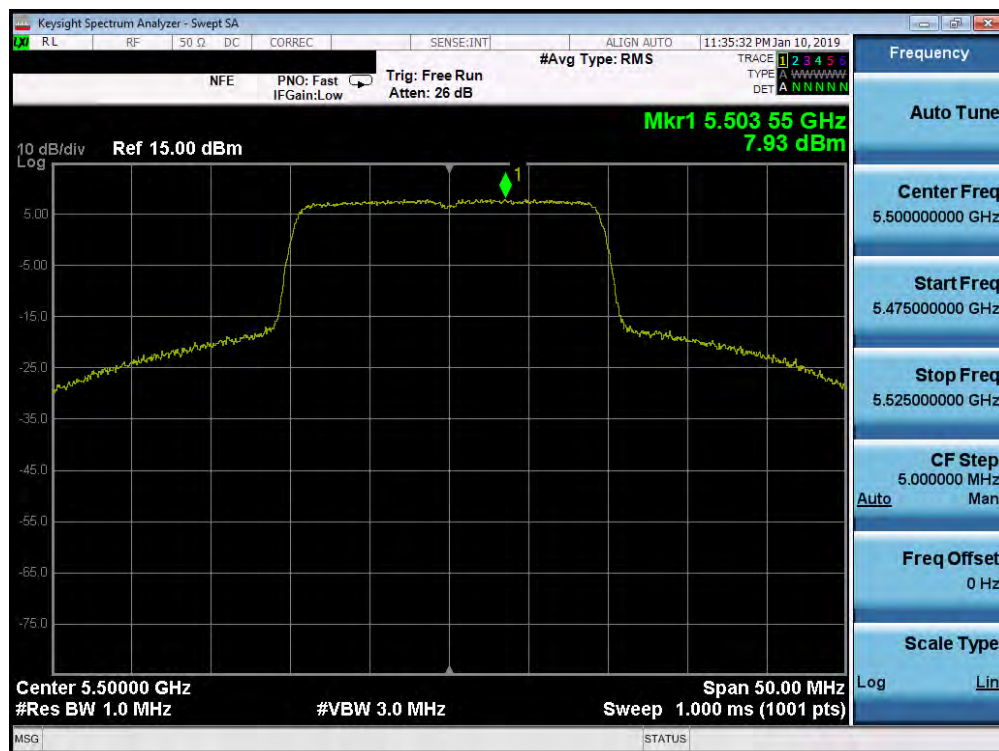


Plot 7-200. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 62)

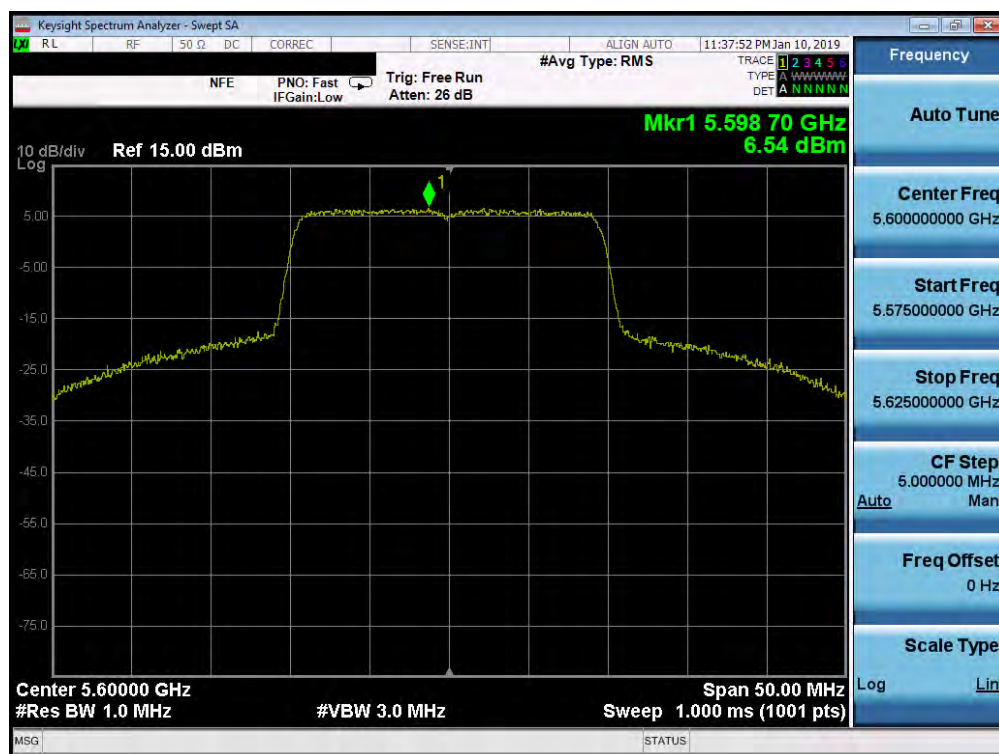


Plot 7-201. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 158 of 514

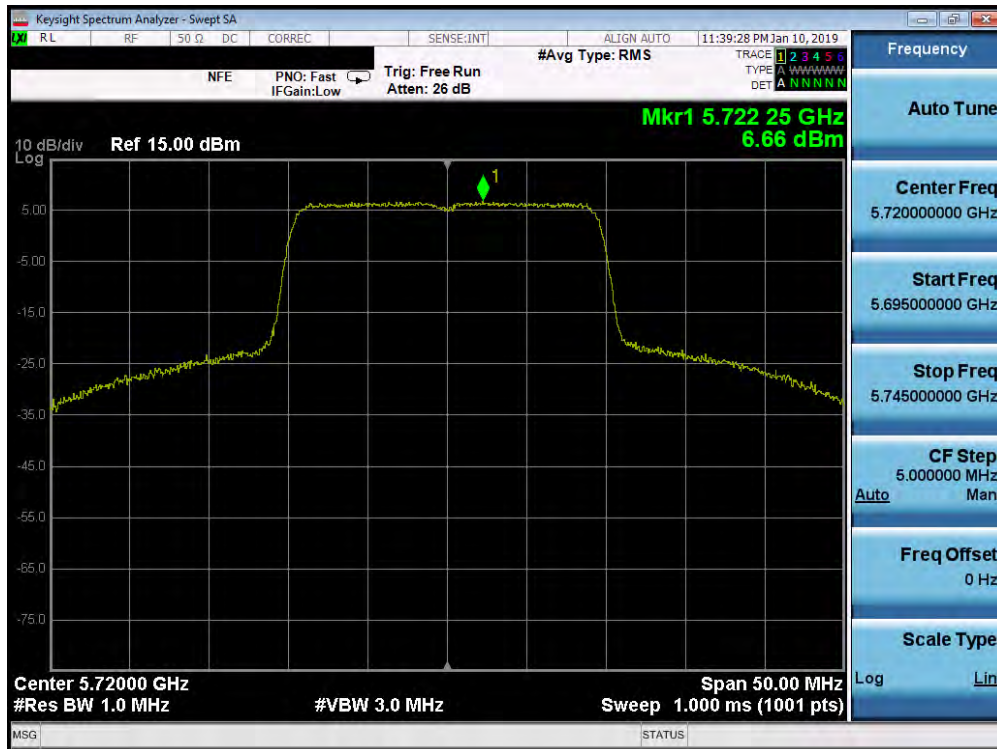


Plot 7-202. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)

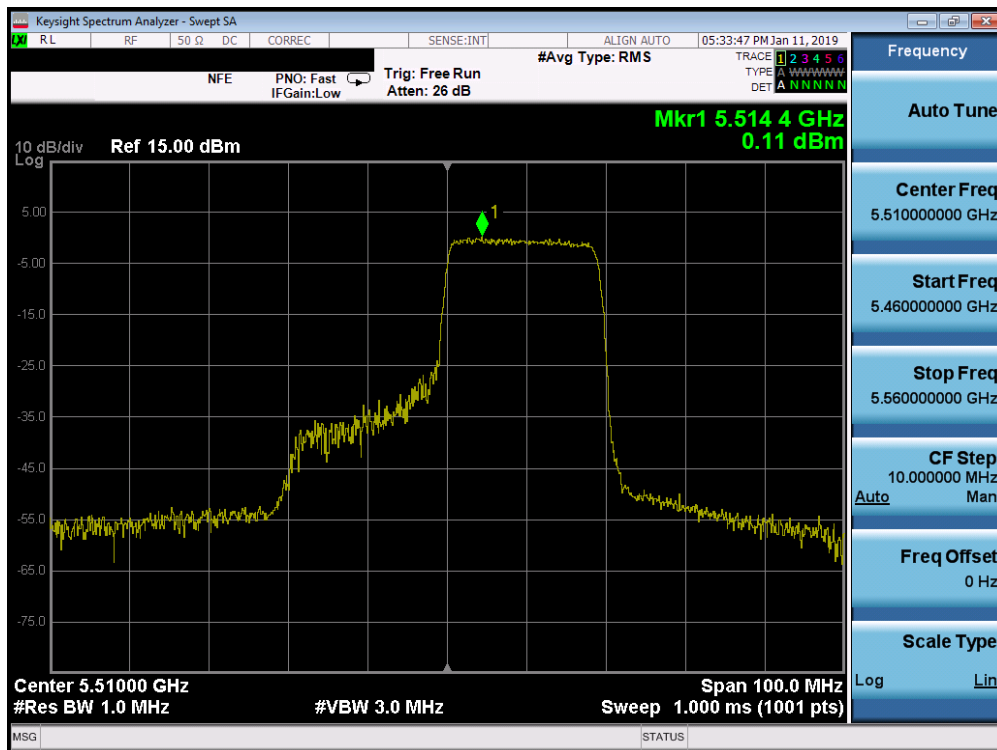


Plot 7-203. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 159 of 514

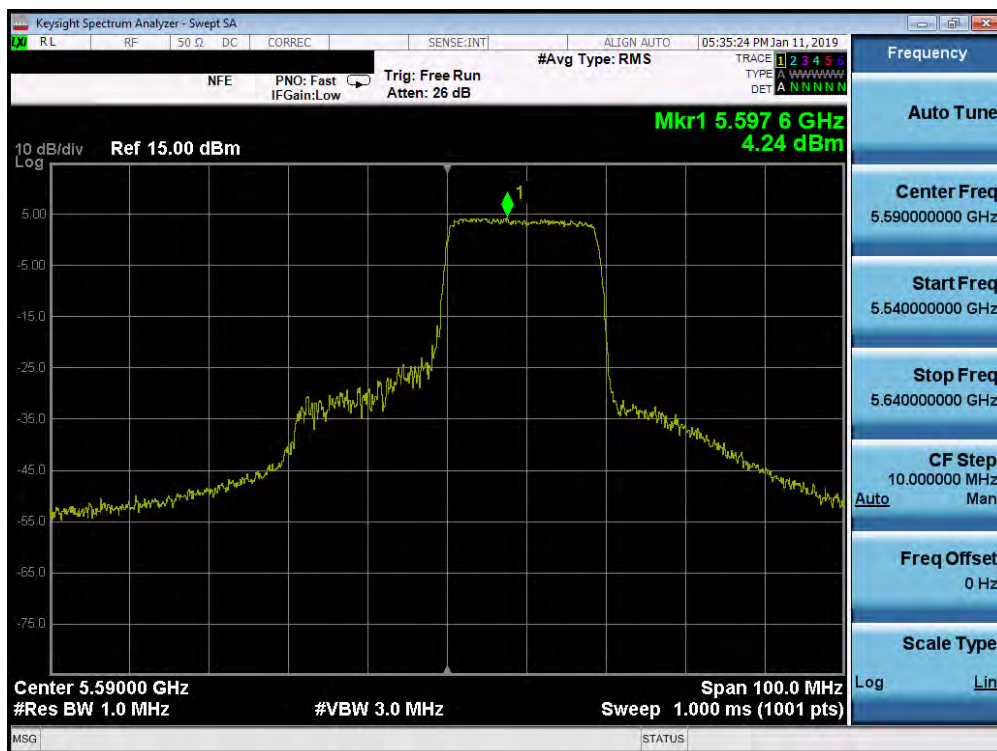


Plot 7-204. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 144)

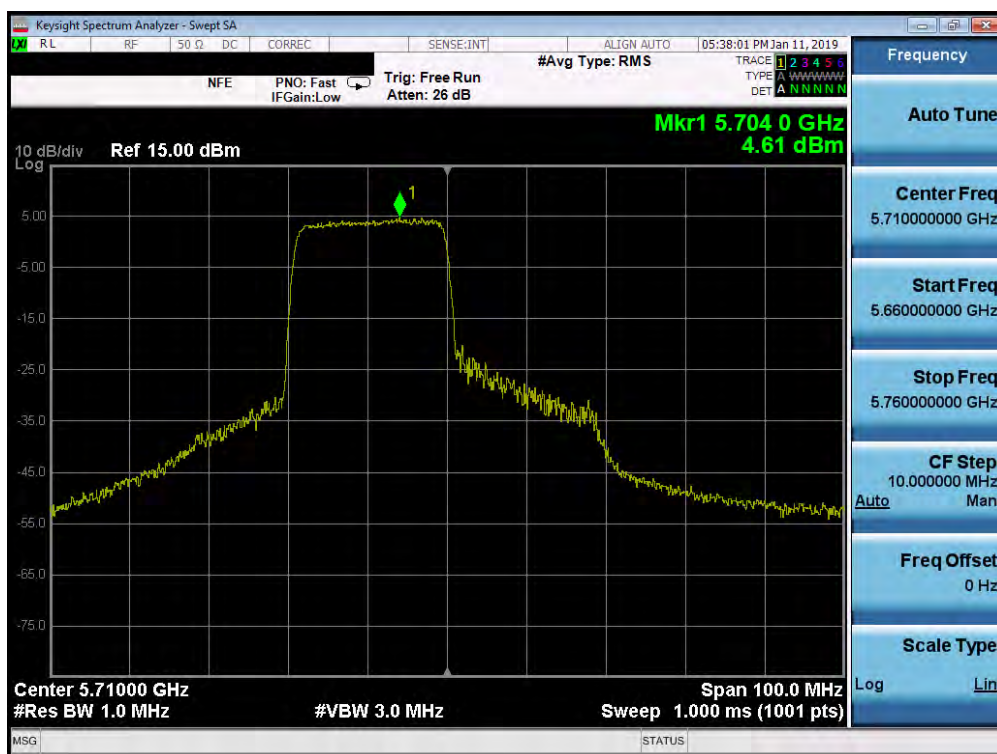


Plot 7-205. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 160 of 514

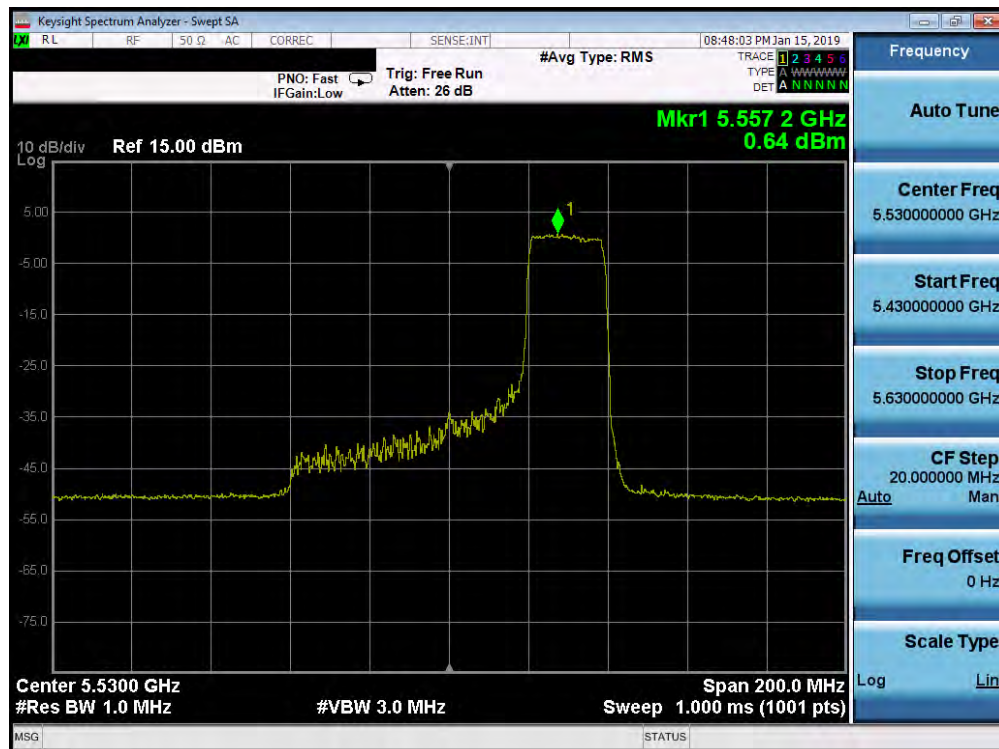


Plot 7-206. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 118)



Plot 7-207. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 161 of 514

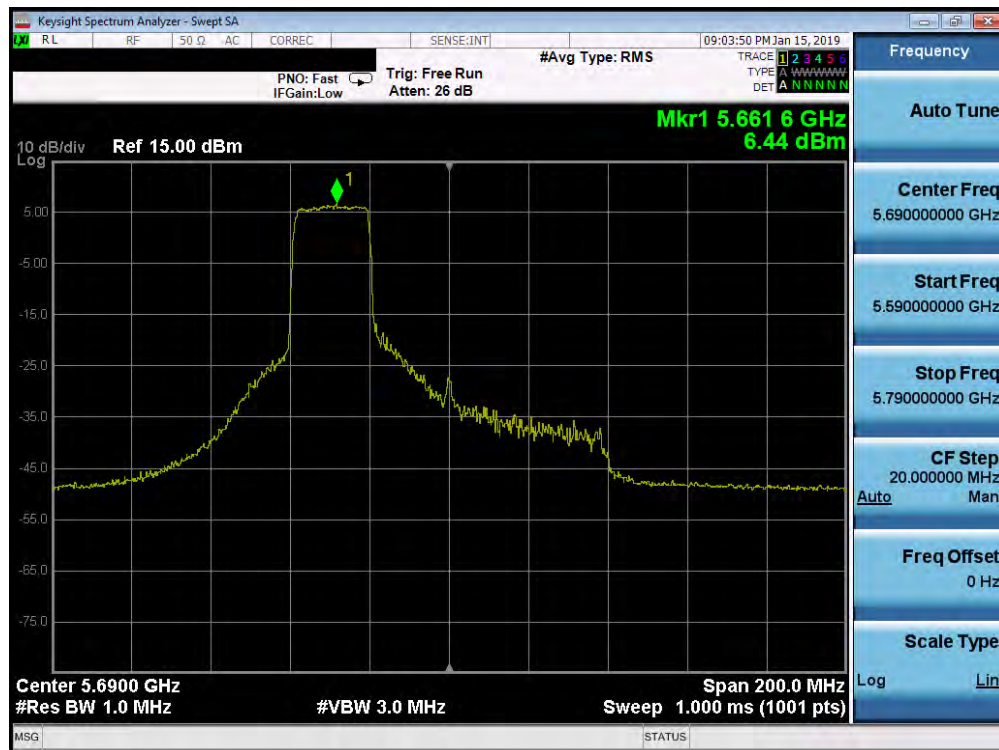


Plot 7-208. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 162 of 514

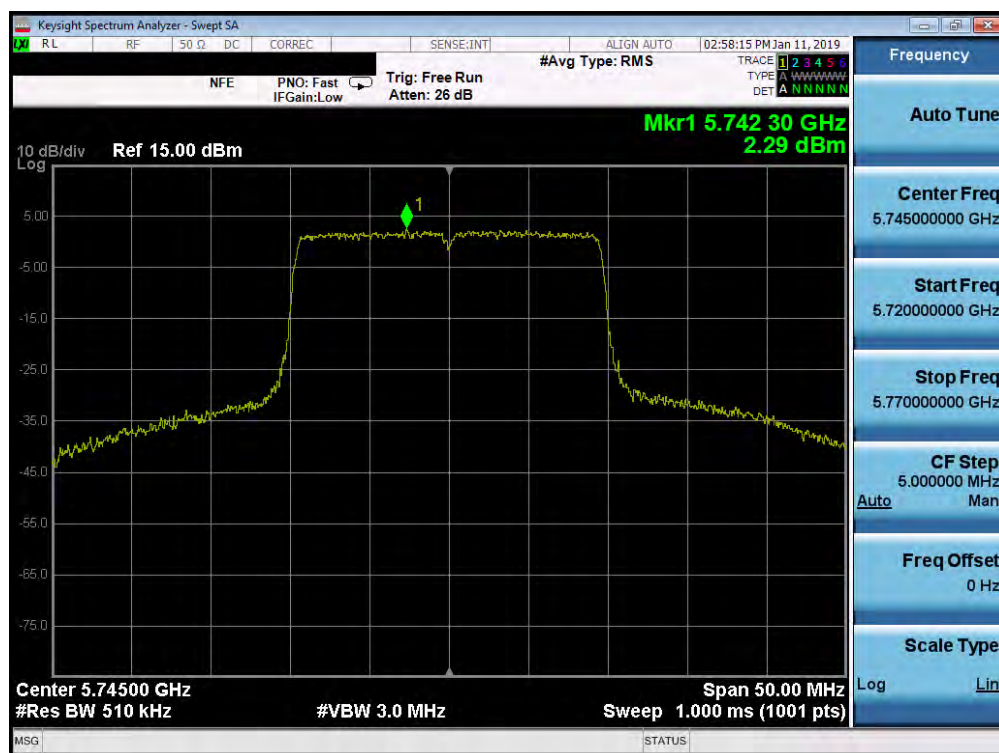


Plot 7-210. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 163 of 514

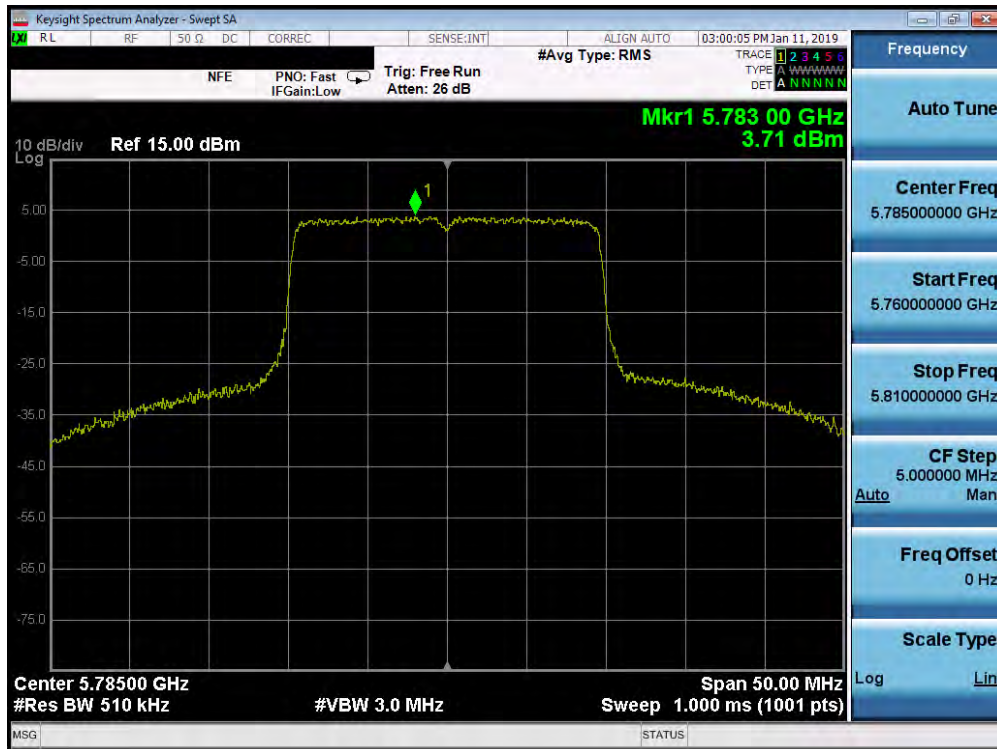
Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
5745	149	ax (20MHz)	242T	MCS0	2.29	30.00	-27.71
5785	157	ax (20MHz)	242T	MCS0	3.71	30.00	-26.29
5825	165	ax (20MHz)	242T	MCS0	2.37	30.00	-27.63
5755	151	ax (40MHz)	242T	MCS0	2.33	30.00	-27.67
5795	159	ax (40MHz)	242T	MCS0	2.89	30.00	-27.11
5775	155	ax (80MHz)	242T	MCS0	7.25	30.00	-22.75

Table 7-74. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (242 Tones)

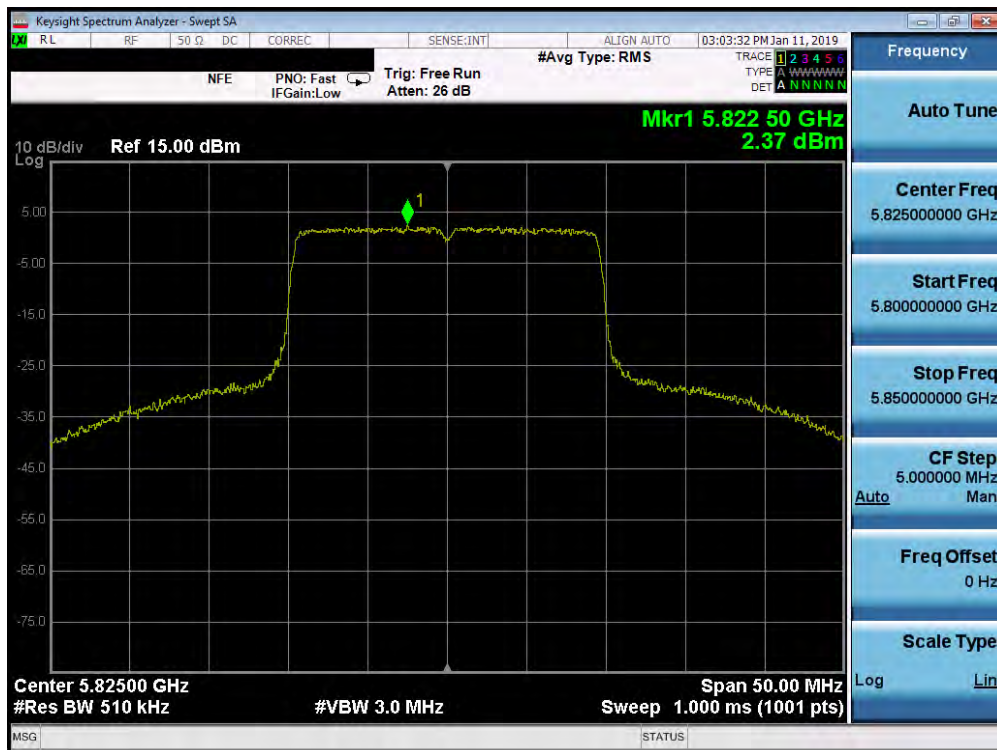


Plot 7-211. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 164 of 514

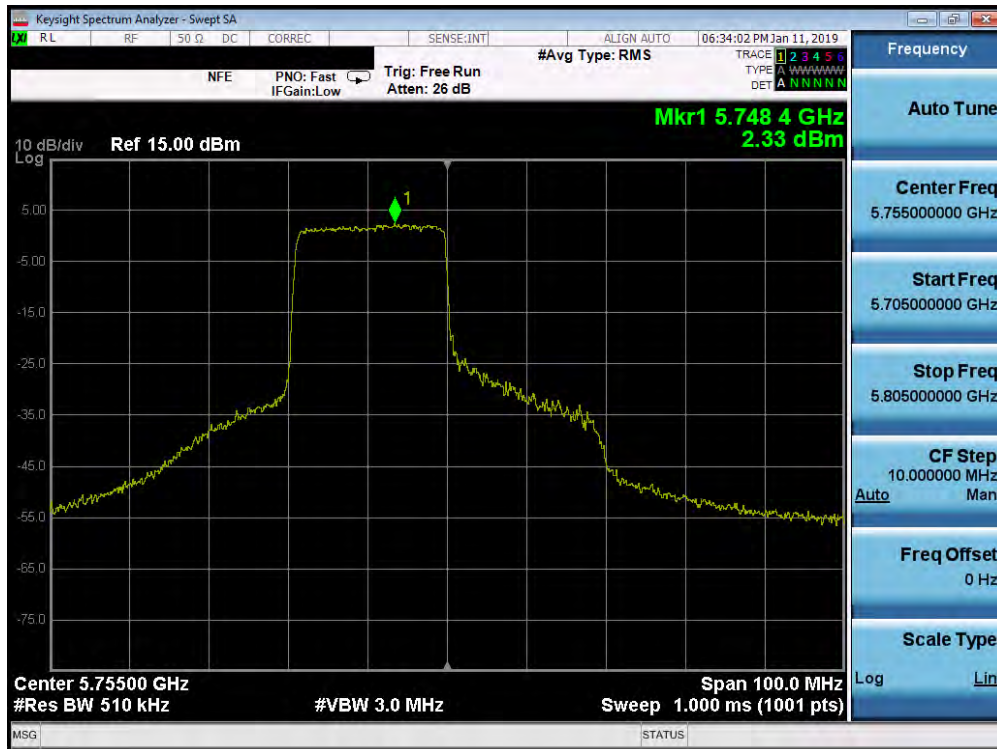


Plot 7-212. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

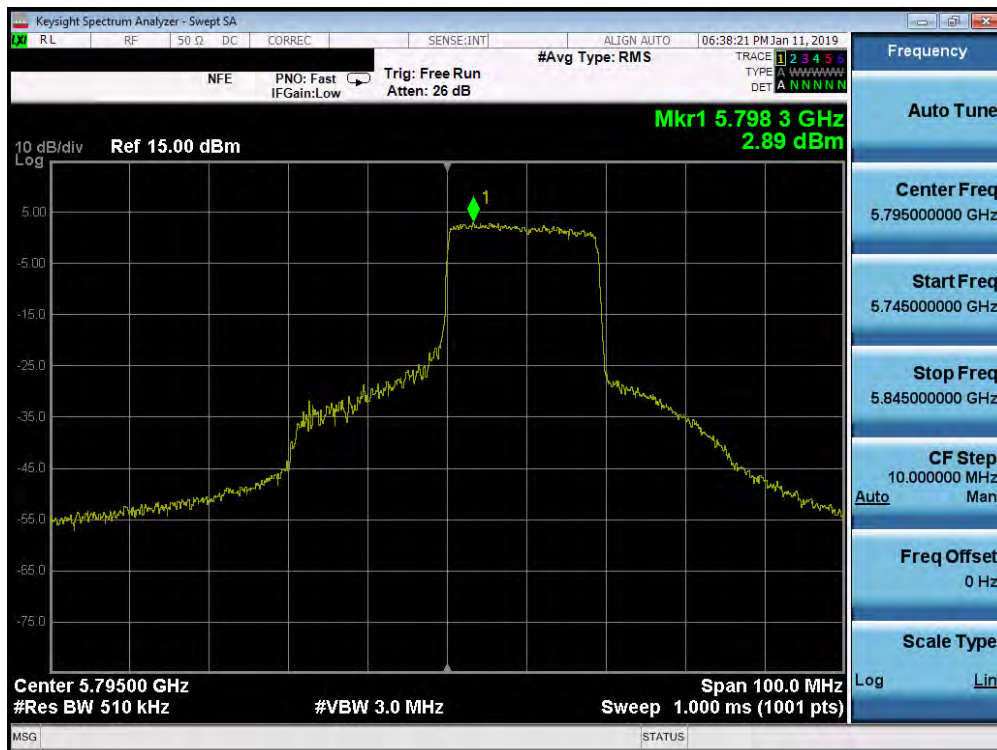


Plot 7-213. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 165 of 514

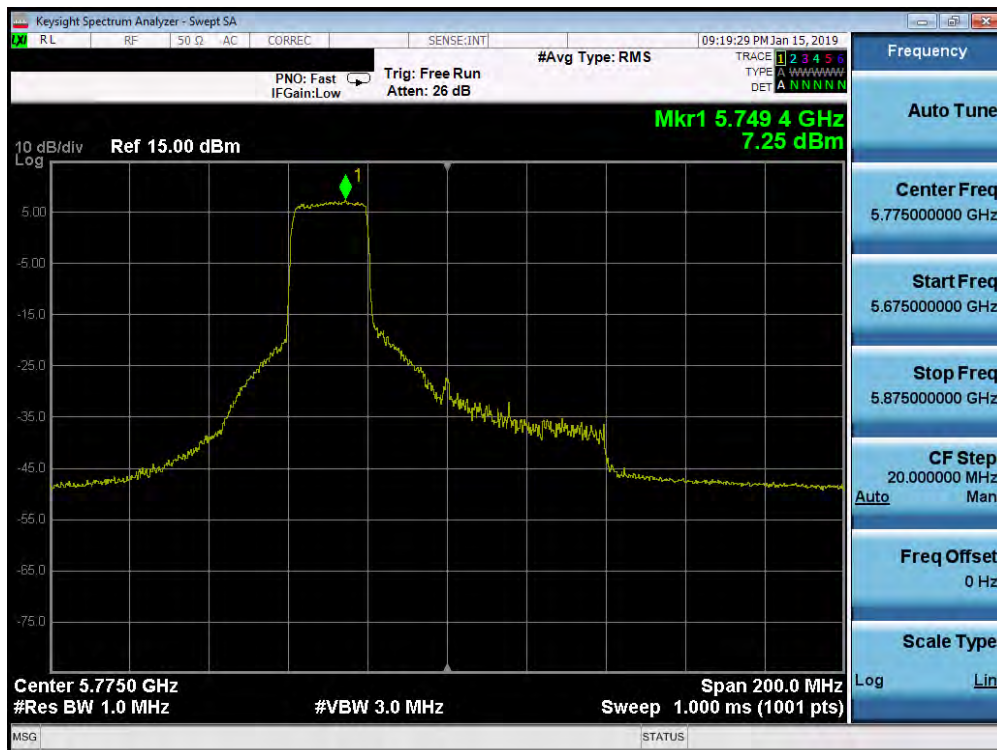


Plot 7-214. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 151)



Plot 7-215. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 166 of 514



SISO Antenna-1 Power Spectral Density Measurements (484 Tones)

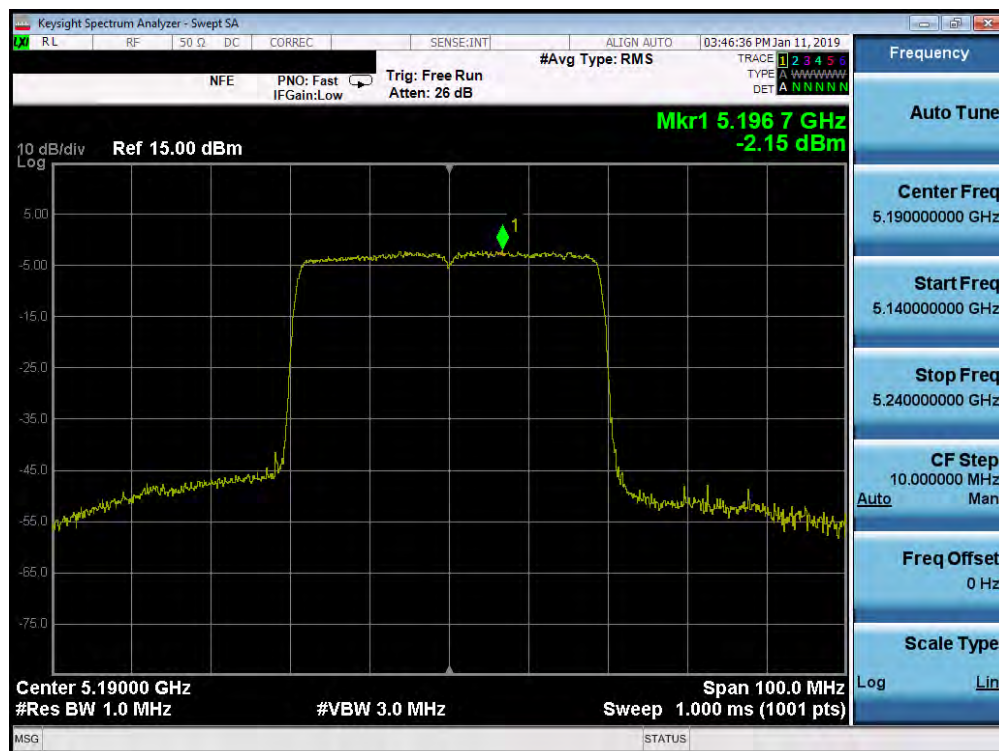
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	11.00	-13.15
	5230	46	ax (40MHz)	484T	MCS0	0.95	11.00	-10.05
	5210	42	ax (80MHz)	484T	MCS0	-3.65	11.00	-14.65
Band 2A	5270	54	ax (40MHz)	484T	MCS0	1.48	11.00	-9.52
	5310	62	ax (40MHz)	484T	MCS0	-2.02	11.00	-13.02
	5290	58	ax (80MHz)	484T	MCS0	-3.52	11.00	-14.52
Band 2C	5510	102	ax (40MHz)	484T	MCS0	-3.29	11.00	-14.29
	5590	118	ax (40MHz)	484T	MCS0	0.19	11.00	-10.81
	5710	142	ax (40MHz)	484T	MCS0	0.49	11.00	-10.51
	5530	106	ax (80MHz)	484T	MCS0	-2.25	11.00	-13.25
	5610	122	ax (80MHz)	484T	MCS0	2.45	11.00	-8.55
	5690	138	ax (80MHz)	484T	MCS0	3.13	11.00	-7.87

Table 7-75. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (484 Tones)

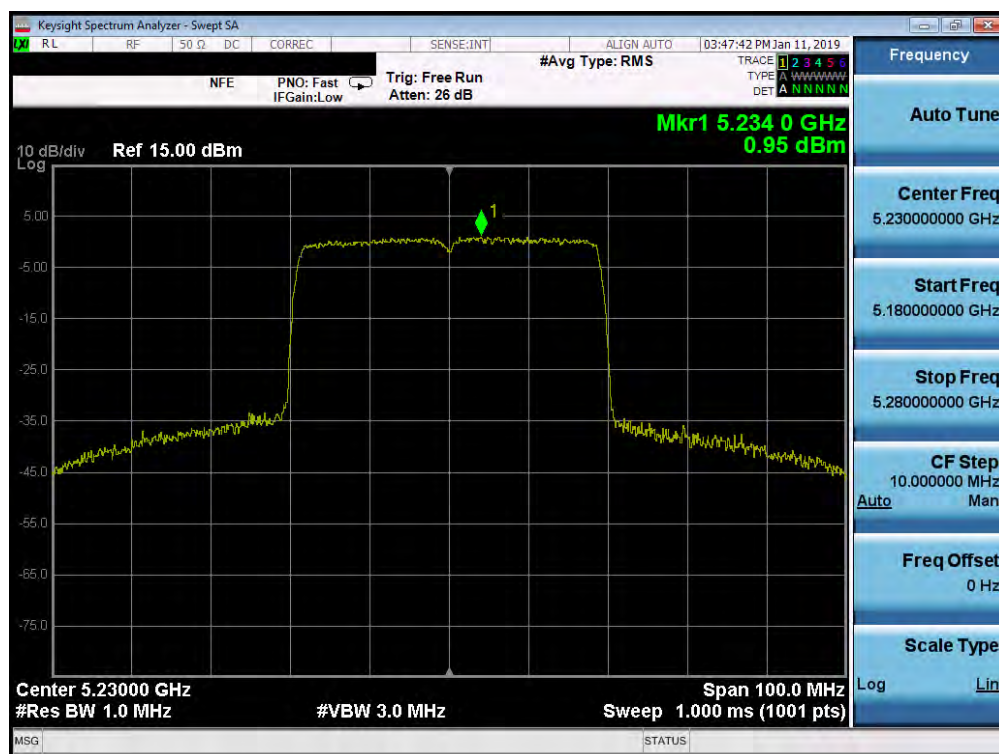
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5190	38	ax (40MHz)	484T	MCS0	-2.15	-7.94	-10.09	10.0	-20.09
	5230	46	ax (40MHz)	484T	MCS0	0.95	-7.44	-6.49	10.0	-16.49
	5210	42	ax (80MHz)	484T	MCS0	-3.65	-7.94	-11.59	10.0	-21.59

Table 7-76. Bands 1 e.i.r.p Conducted Power Spectral Density Measurements (ISED 484 Tones)

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	
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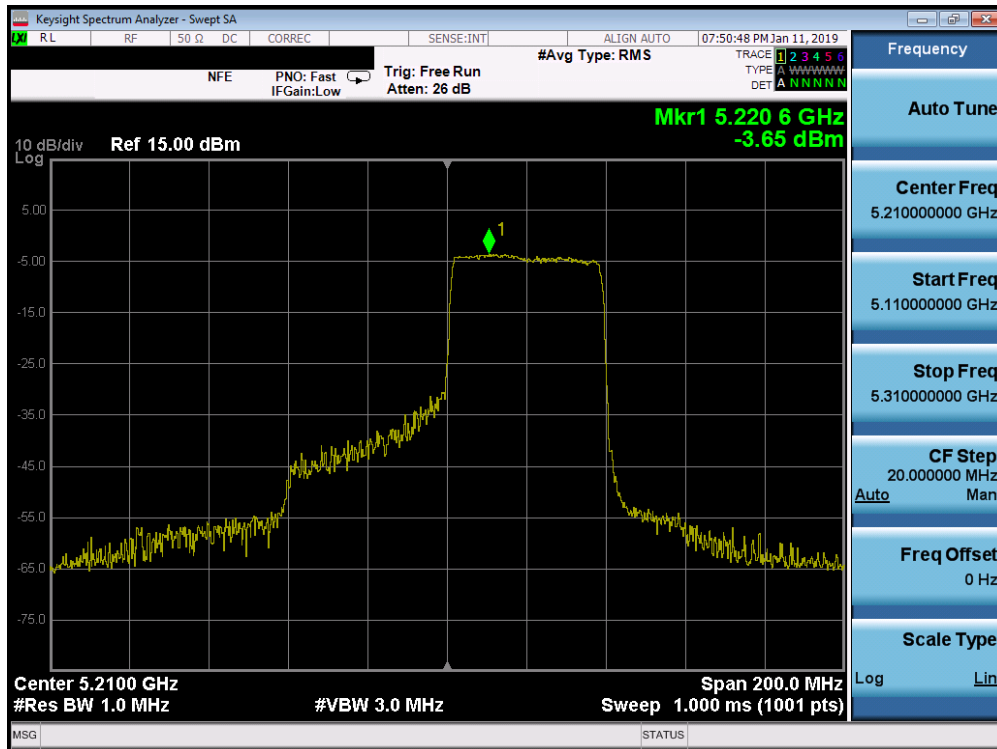


Plot 7-217. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 38)

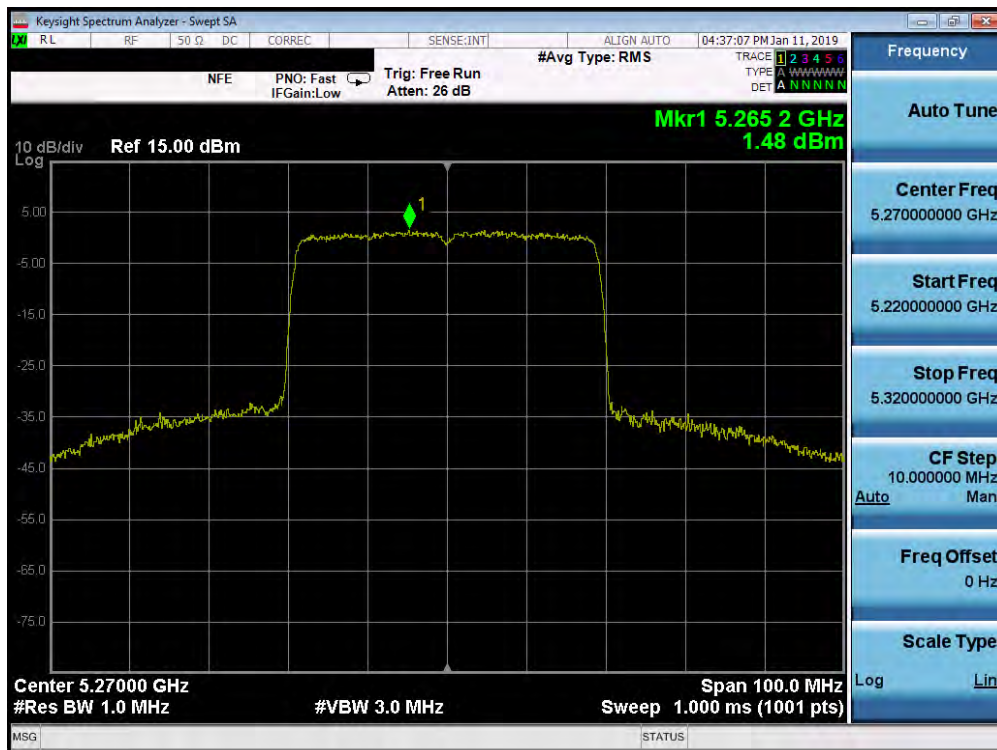


Plot 7-218. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 169 of 514

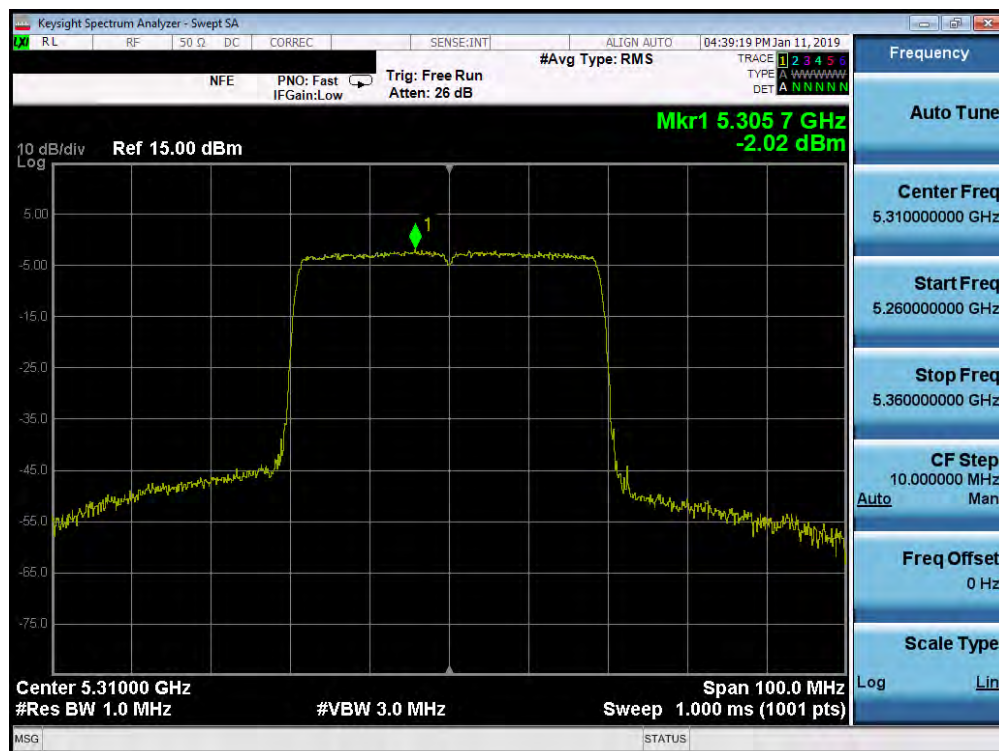


Plot 7-219. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 1) – Ch. 42)

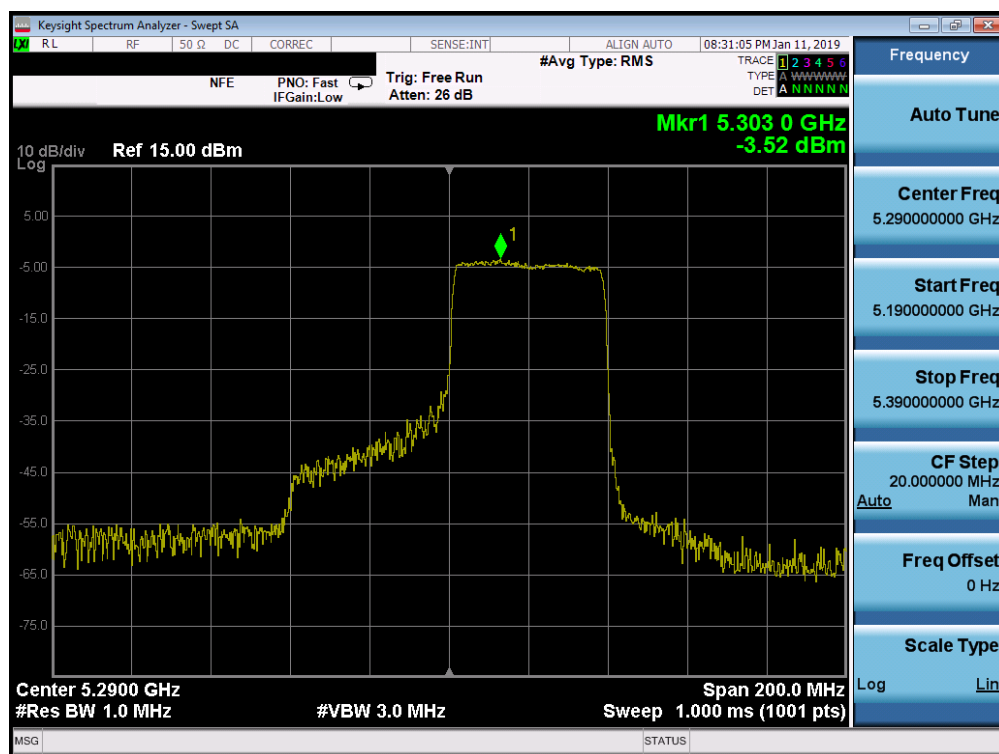


Plot 7-220. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 170 of 514

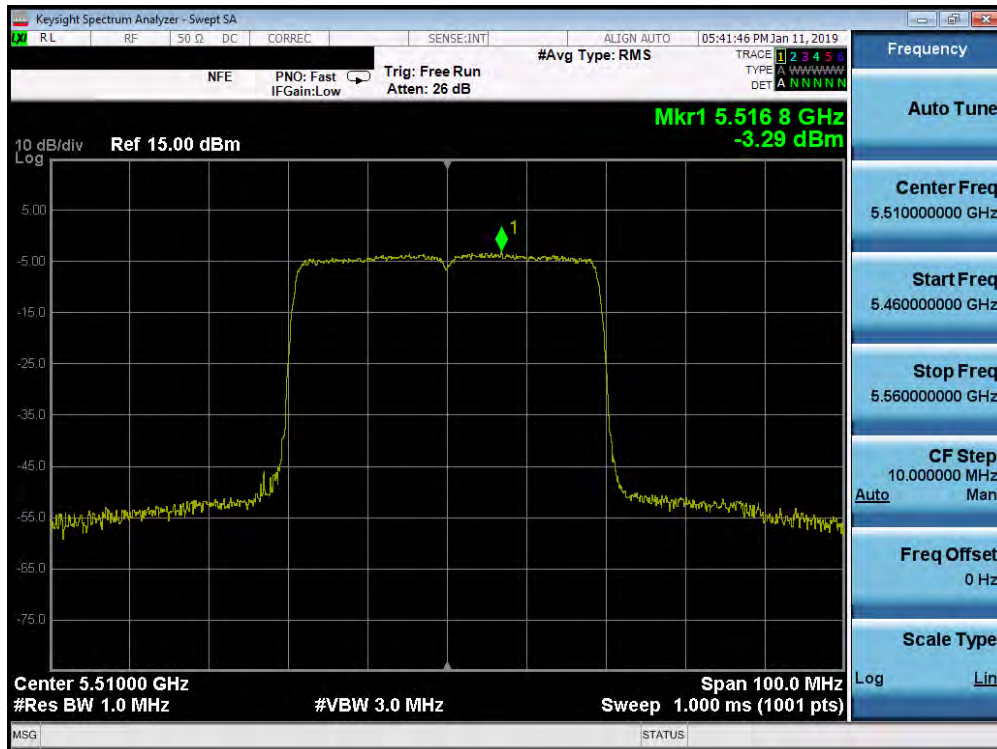


Plot 7-221. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 62)

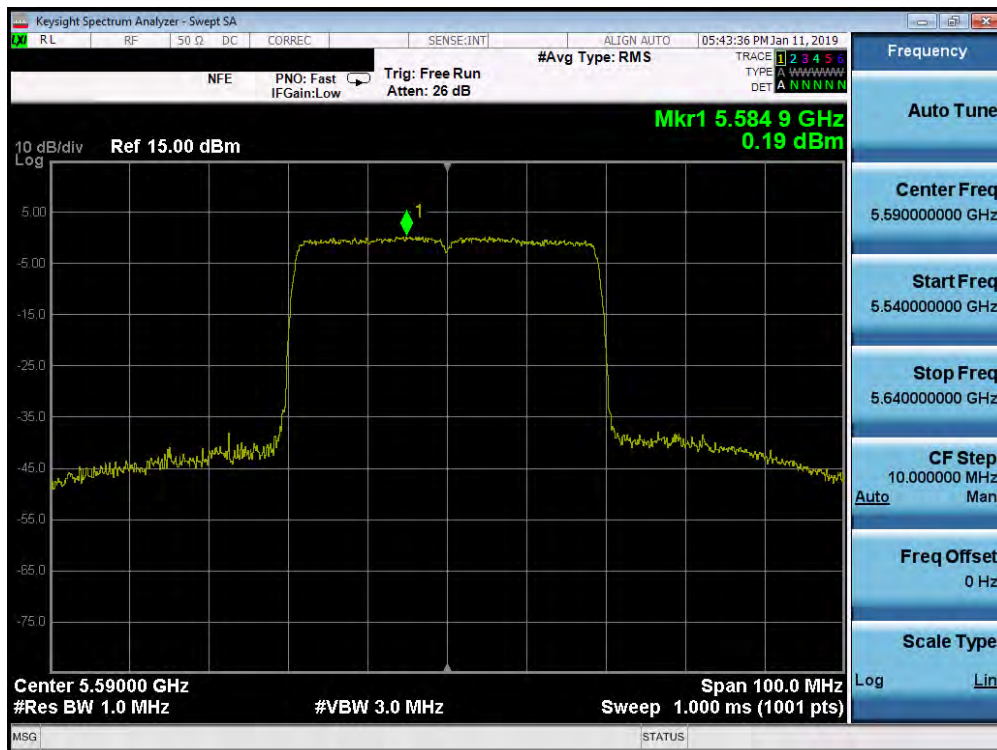


Plot 7-222. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 171 of 514

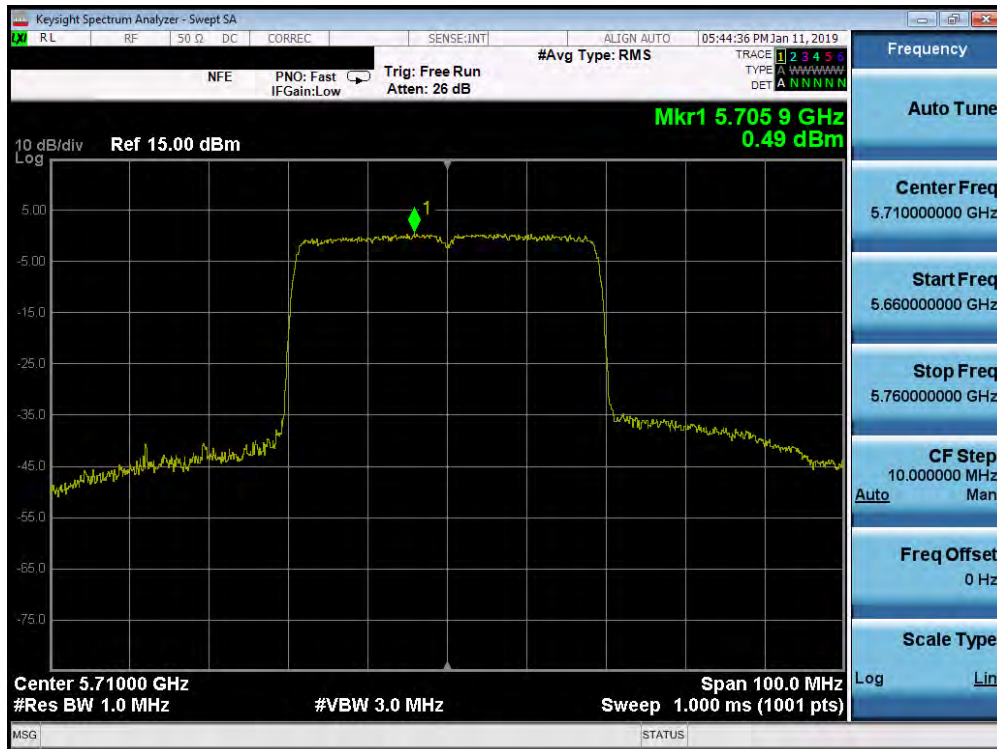


Plot 7-223. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

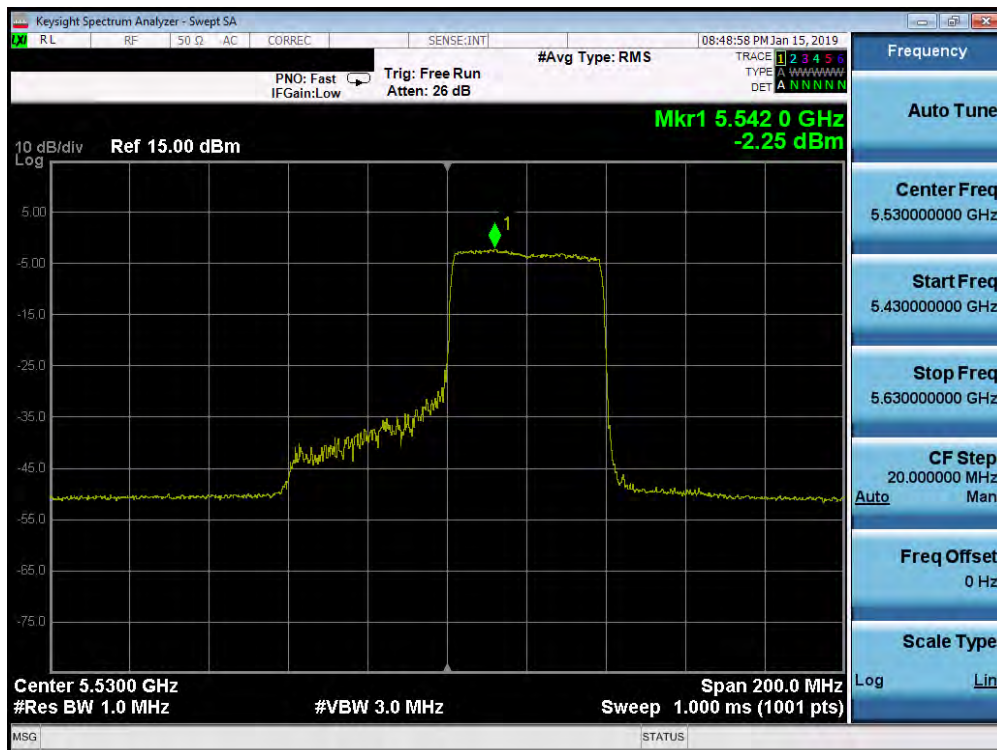


Plot 7-224. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 172 of 514

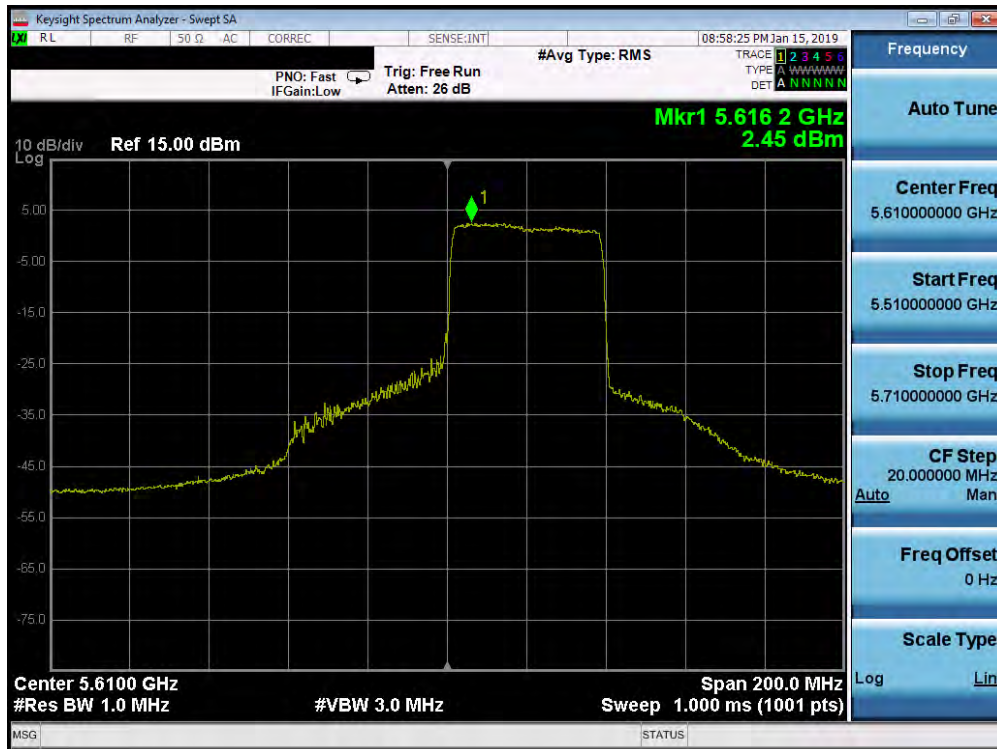


Plot 7-225. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

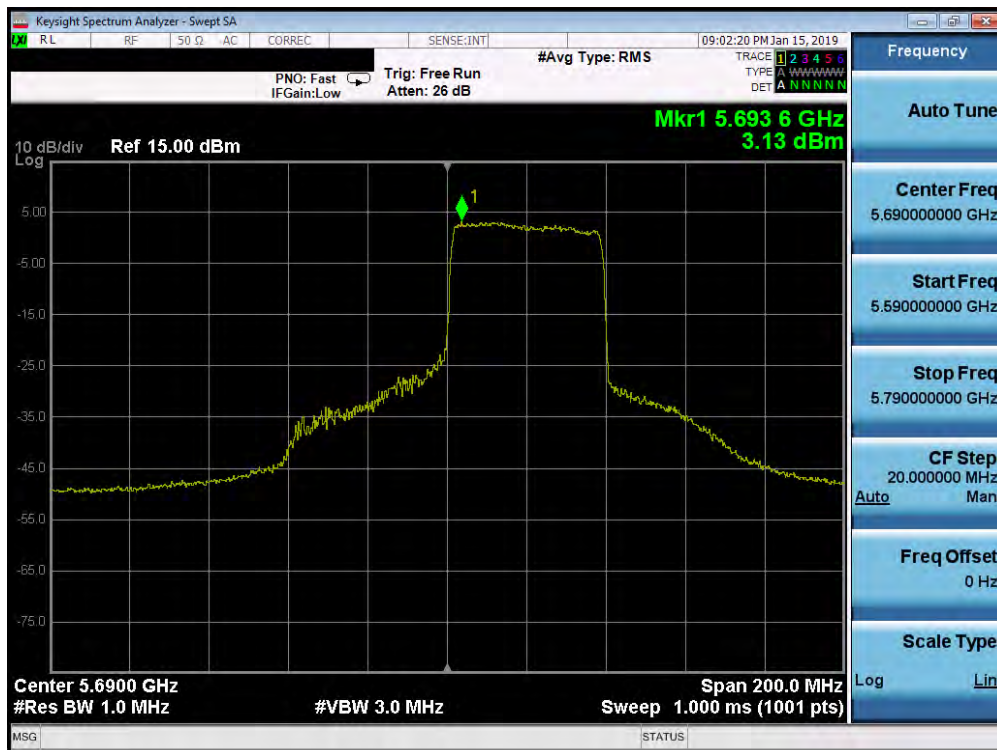


Plot 7-226. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 173 of 514



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

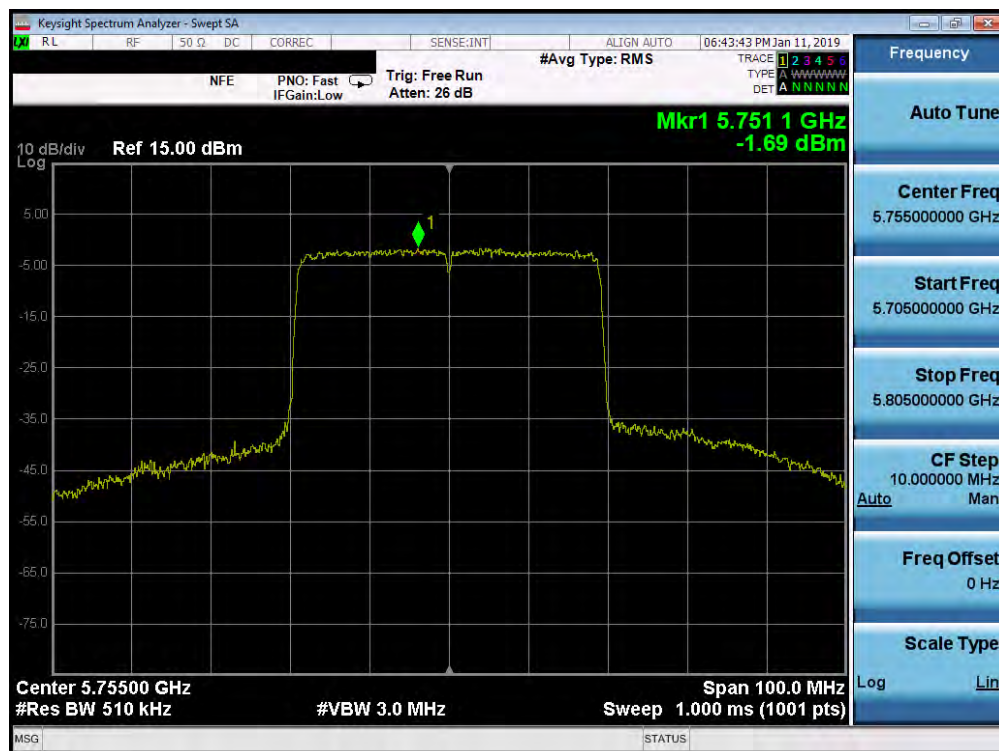


Plot 7-228. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 174 of 514

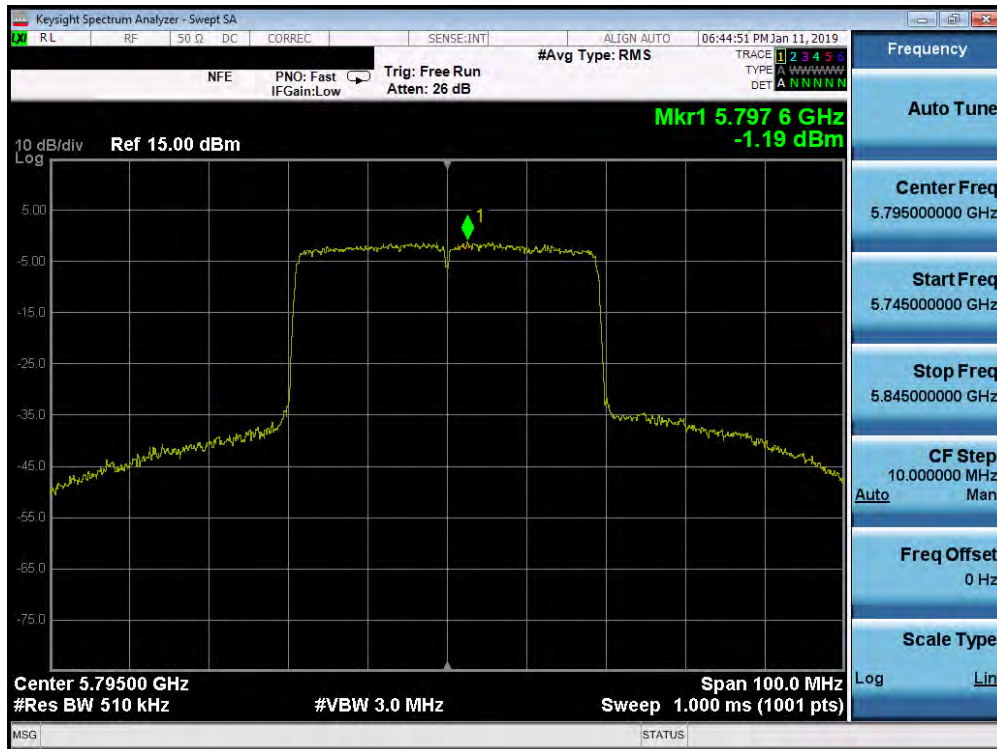
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5755	151	ax (40MHz)	484T	MCS0	-1.69	30.00	-31.69
	5795	159	ax (40MHz)	484T	MCS0	-1.19	30.00	-31.19
	5775	155	ax (80MHz)	484T	MCS0	3.43	30.00	-26.57

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

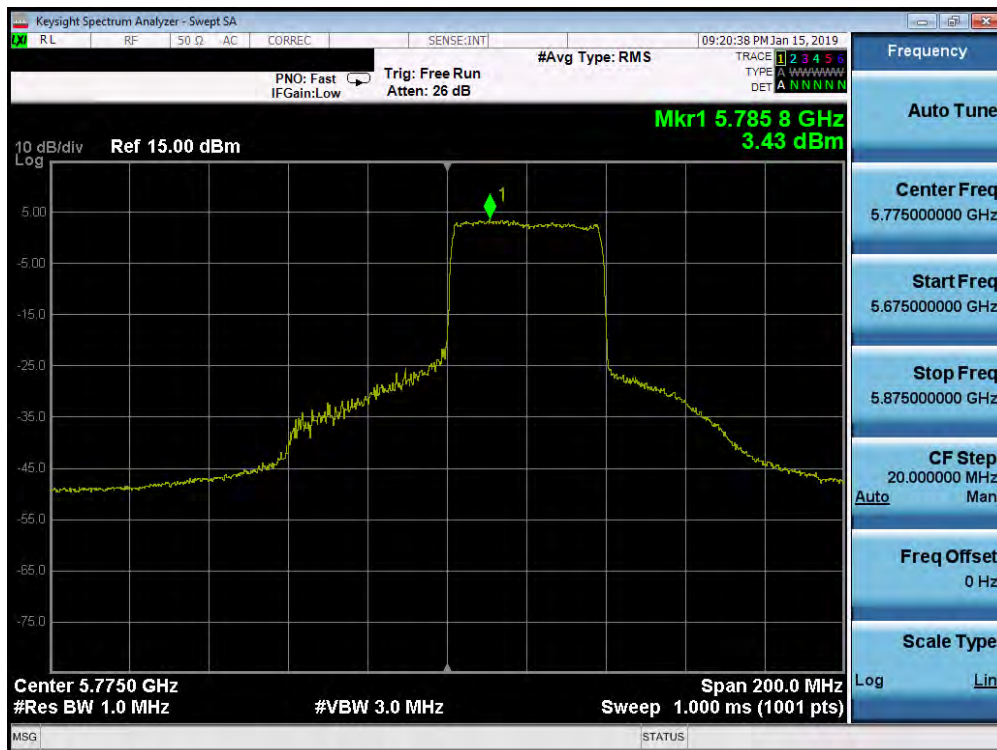


Plot 7-229. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 175 of 514



Plot 7-230. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 159)



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 176 of 514

SISO Antenna-1 Power Spectral Density Measurements (996 Tones)

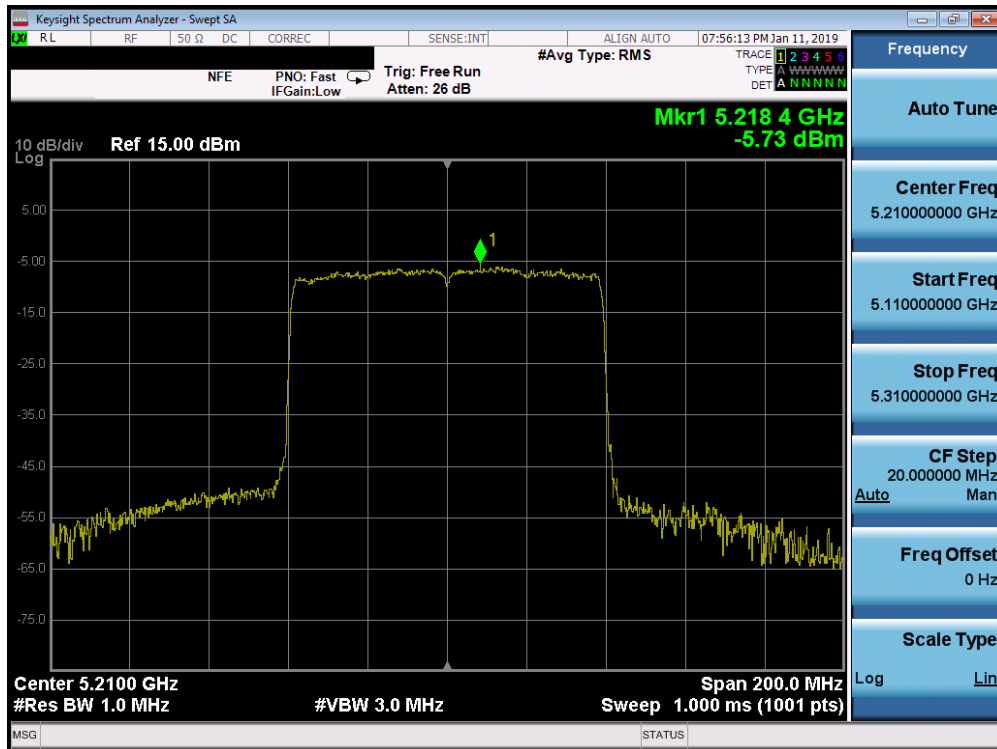
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	11.00	-16.73
Band 2A	5290	58	ax (80MHz)	996T	MCS0	-6.40	11.00	-17.40
Band 2C	5530	106	ax (80MHz)	996T	MCS0	-5.43	11.00	-16.43
	5610	122	ax (80MHz)	996T	MCS0	-1.60	11.00	-12.60
	5690	138	ax (80MHz)	996T	MCS0	-5.03	11.00	-16.03

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

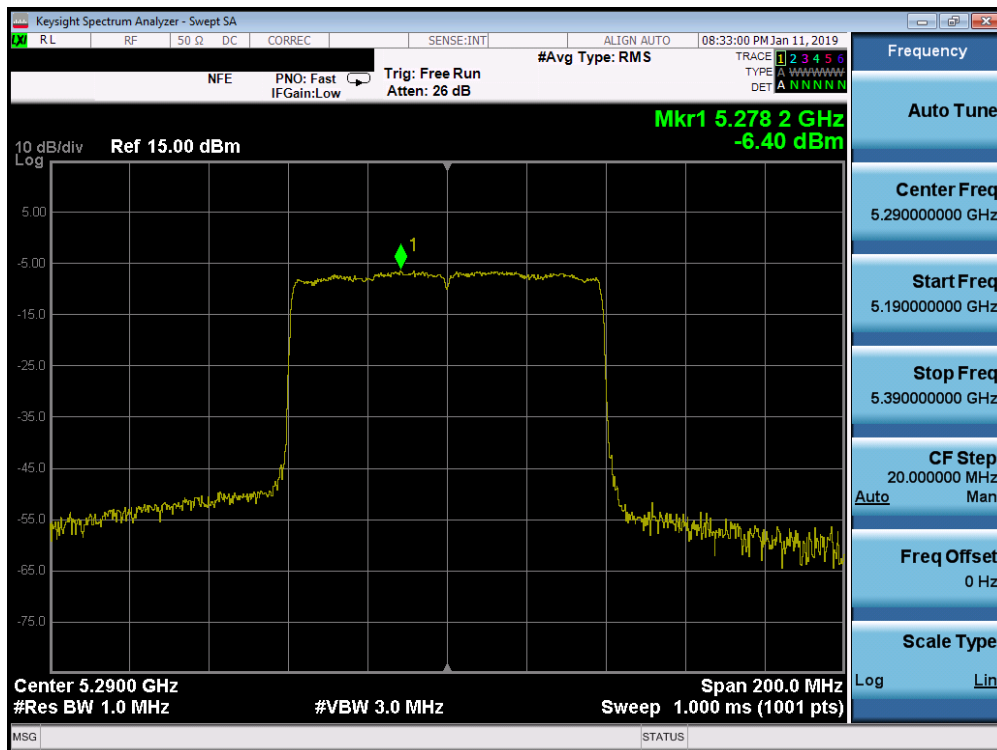
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5210	42	ax (80MHz)	996T	MCS0	-5.73	-7.94	-13.67	10.0	-23.67

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

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 177 of 514

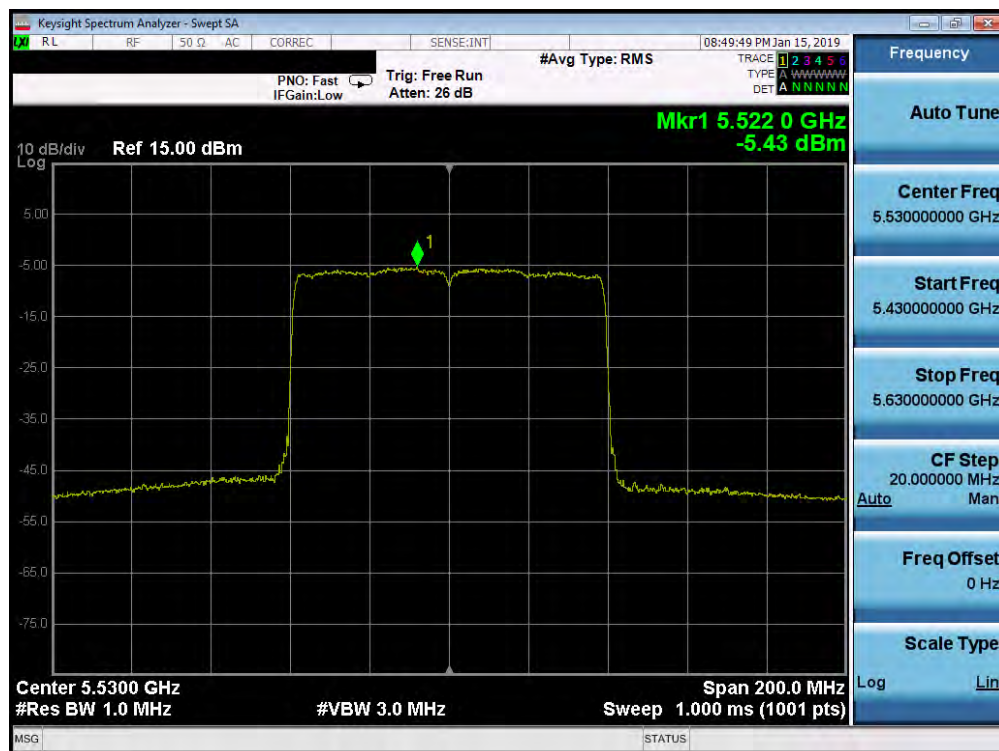


Plot 7-232. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 1) – Ch. 42)

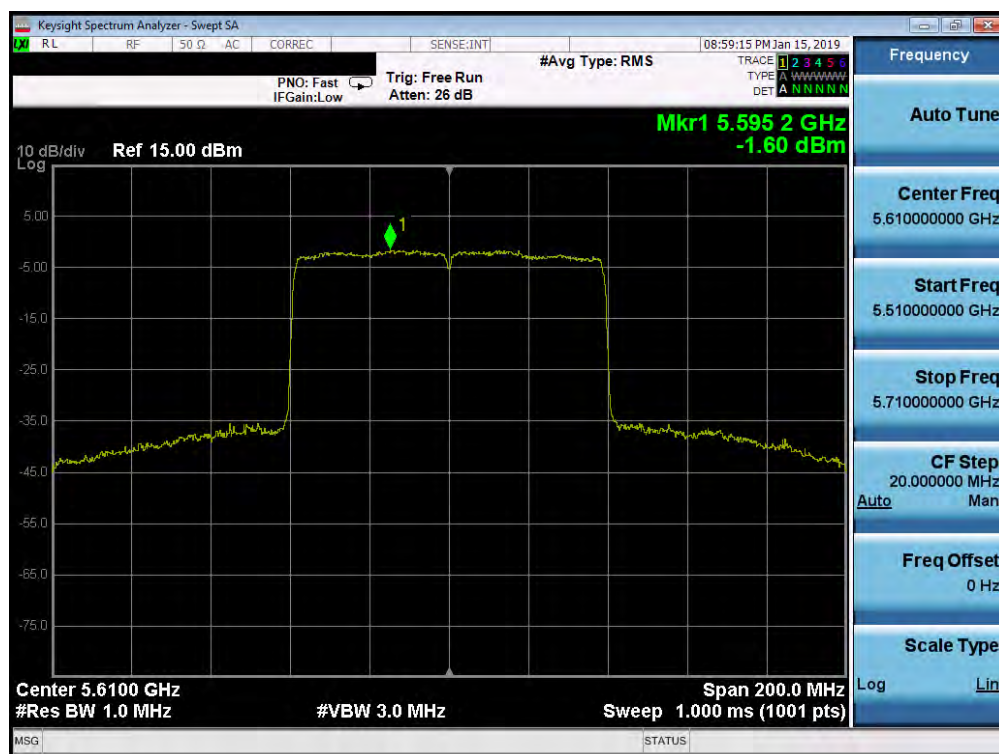


Plot 7-233. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 178 of 514

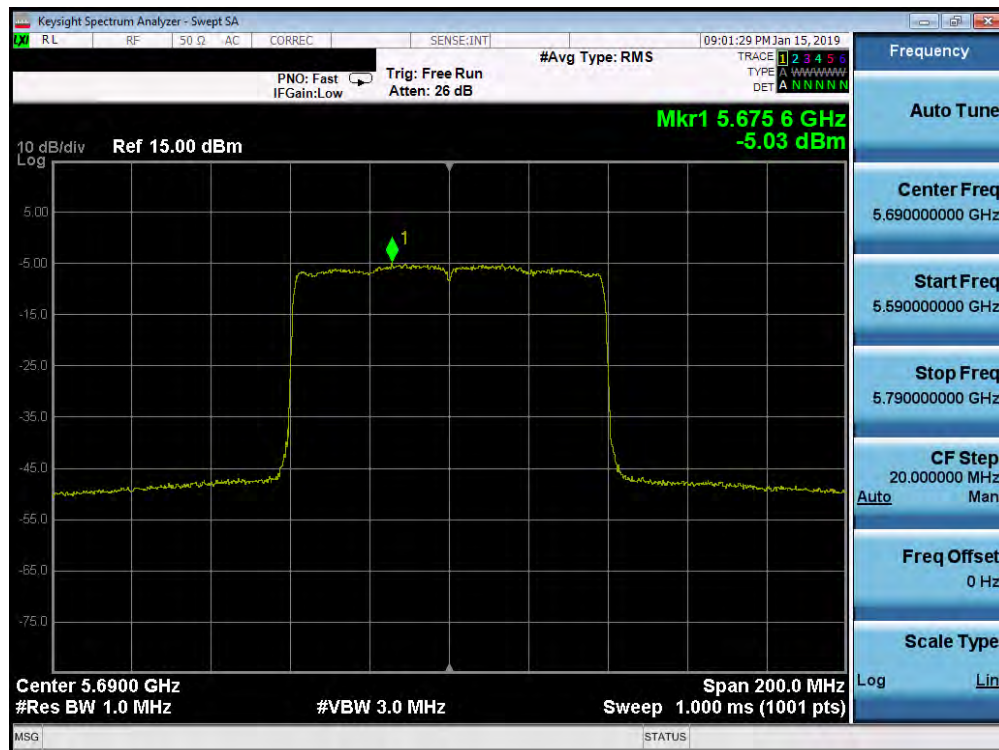


Plot 7-234. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 106)



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 179 of 514

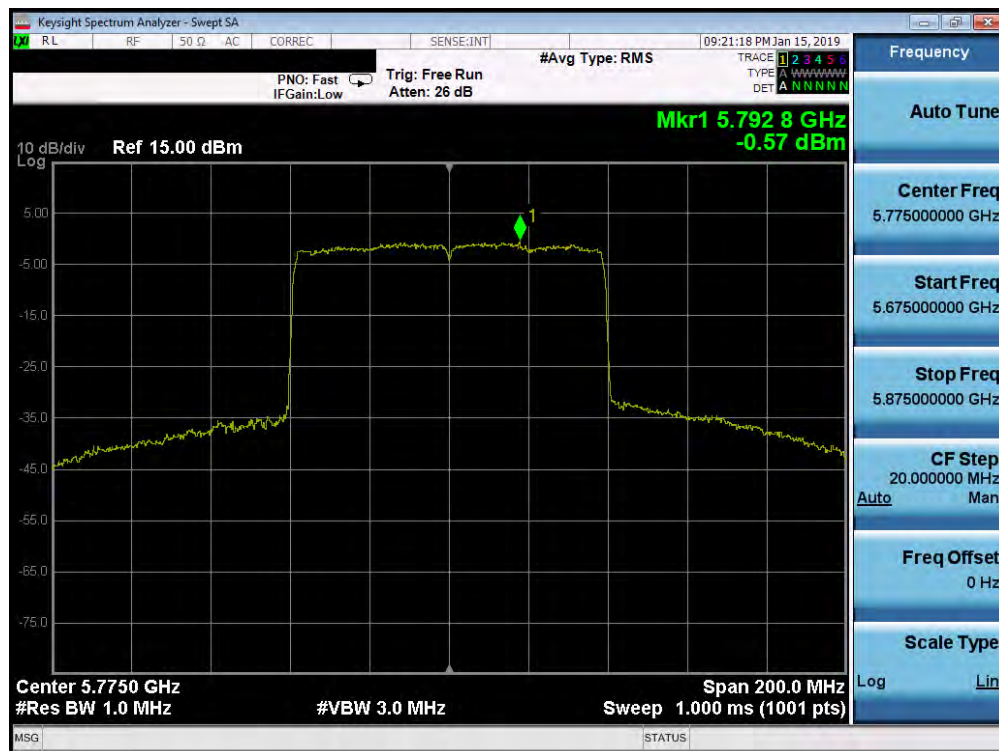


Plot 7-236. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 180 of 514

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5775	155	ax (80MHz)	996T	MCS0	-0.57	30.00	-30.57

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



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 181 of 514

SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

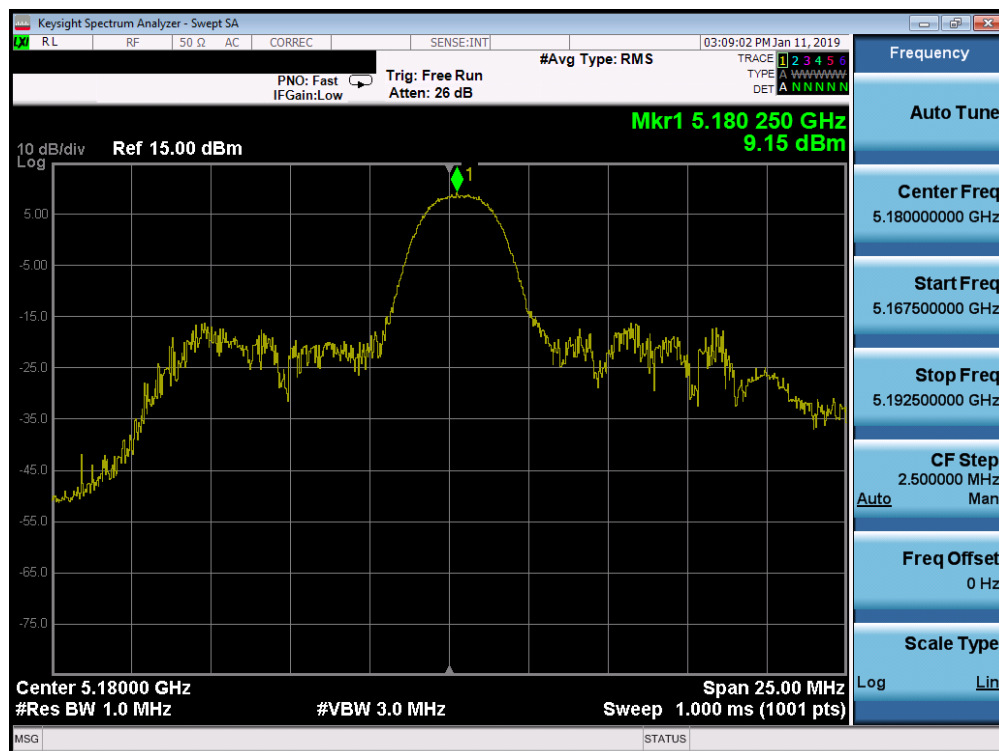
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	11.00	-1.85
	5200	40	ax (20MHz)	26T	MCS0	8.84	11.00	-2.16
	5240	48	ax (20MHz)	26T	MCS0	8.98	11.00	-2.02
	5190	38	ax (40MHz)	26T	MCS0	8.02	11.00	-2.98
	5230	46	ax (40MHz)	26T	MCS0	8.55	11.00	-2.45
	5210	42	ax (80MHz)	26T	MCS0	9.39	11.00	-1.61
Band 2A	5260	52	ax (20MHz)	26T	MCS0	8.71	11.00	-2.29
	5280	56	ax (20MHz)	26T	MCS0	8.62	11.00	-2.38
	5320	64	ax (20MHz)	26T	MCS0	8.79	11.00	-2.21
	5270	54	ax (40MHz)	26T	MCS0	8.26	11.00	-2.74
	5310	62	ax (40MHz)	26T	MCS0	8.10	11.00	-2.90
	5290	58	ax (80MHz)	26T	MCS0	10.01	11.00	-0.99
Band 2C	5500	100	ax (20MHz)	26T	MCS0	9.53	11.00	-1.47
	5600	120	ax (20MHz)	26T	MCS0	9.51	11.00	-1.49
	5720	144	ax (20MHz)	26T	MCS0	9.36	11.00	-1.64
	5510	102	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5590	118	ax (40MHz)	26T	MCS0	8.47	11.00	-2.53
	5710	142	ax (40MHz)	26T	MCS0	8.40	11.00	-2.60
	5530	106	ax (80MHz)	26T	MCS0	9.98	11.00	-1.02
	5610	122	ax (80MHz)	26T	MCS0	10.10	11.00	-0.90
	5690	138	ax (80MHz)	26T	MCS0	10.42	11.00	-0.58

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

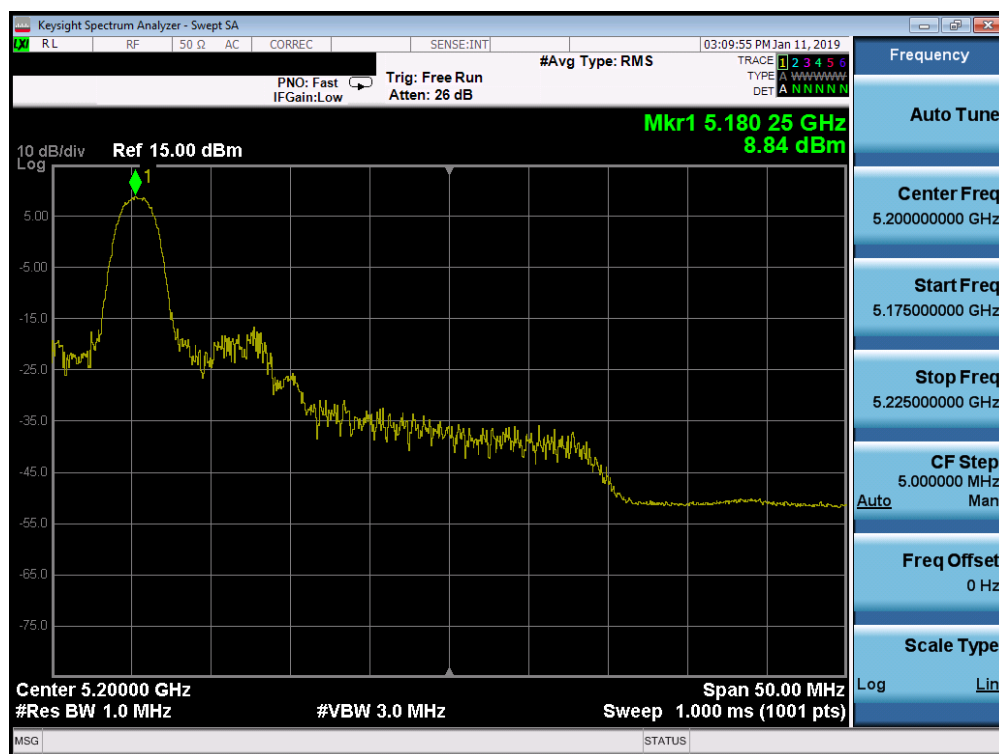
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	9.15	-7.70	1.45	10.0	-8.55
	5200	40	ax (20MHz)	26T	MCS0	8.84	-7.57	1.27	10.0	-8.73
	5240	48	ax (20MHz)	26T	MCS0	8.98	-8.01	0.97	10.0	-9.03
	5190	38	ax (40MHz)	26T	MCS0	8.02	-7.57	0.45	10.0	-9.55
	5230	46	ax (40MHz)	26T	MCS0	8.55	-8.01	0.54	10.0	-9.46
	5210	42	ax (80MHz)	26T	MCS0	9.39	-7.57	1.82	10.0	-8.18

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

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 182 of 514

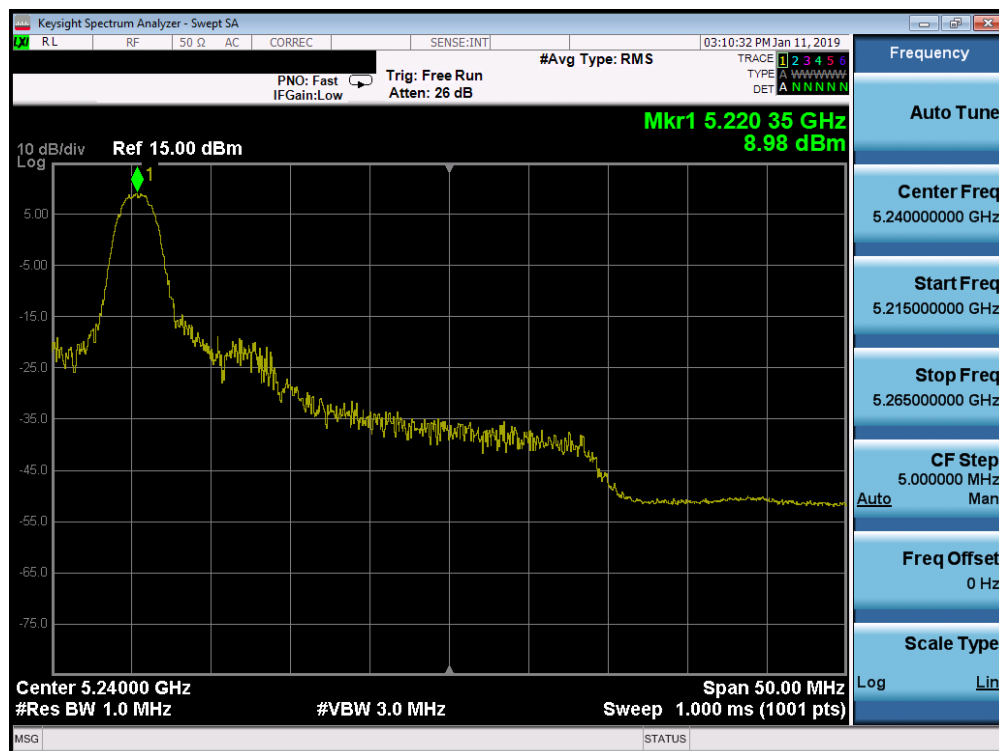


Plot 7-238. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

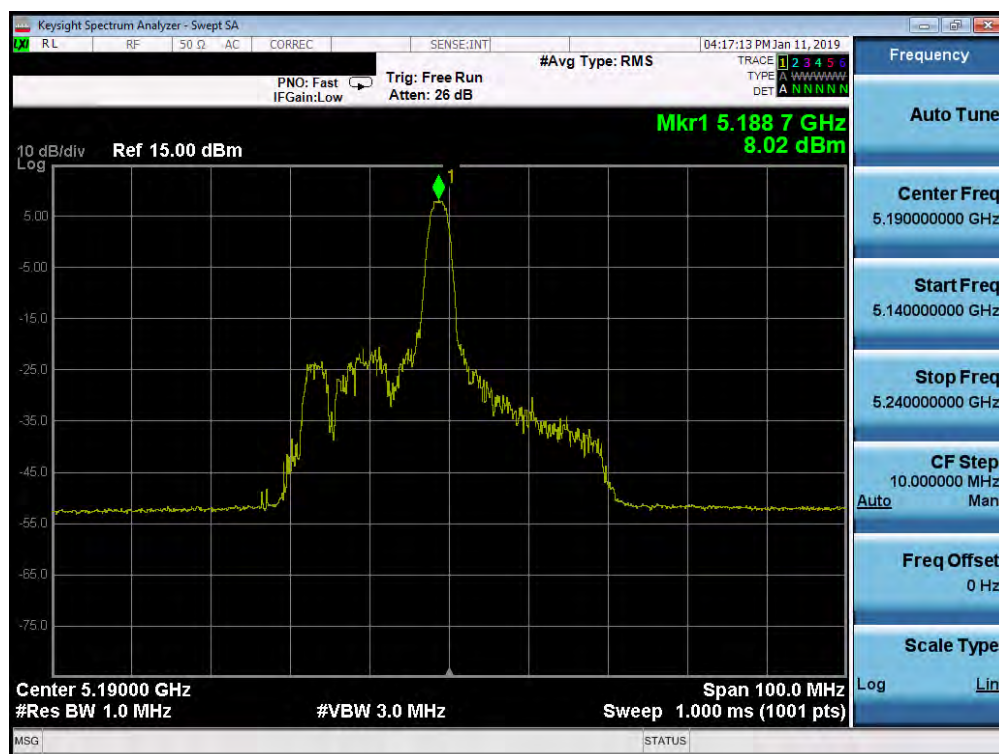


Plot 7-239. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 183 of 514

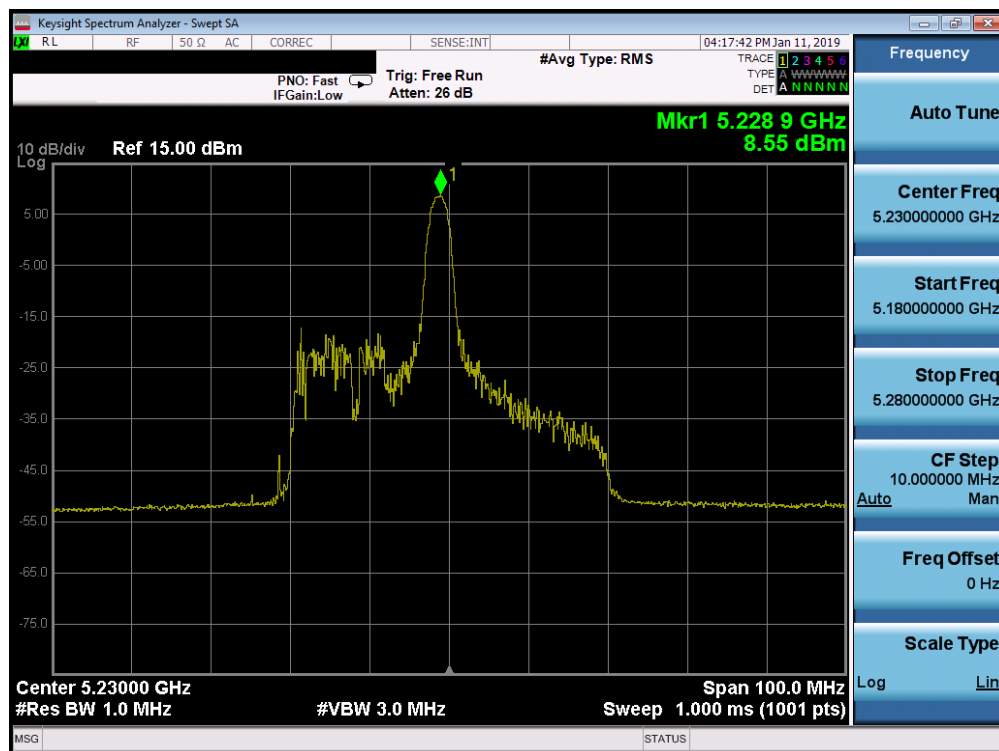


Plot 7-240. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

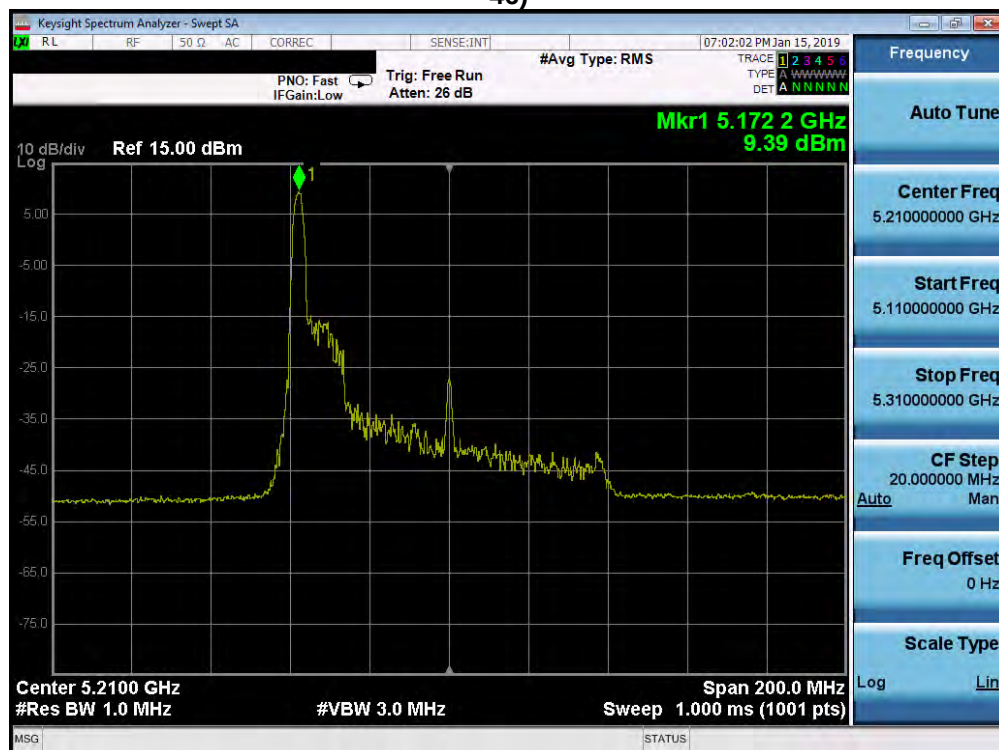


Plot 7-241. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 184 of 514

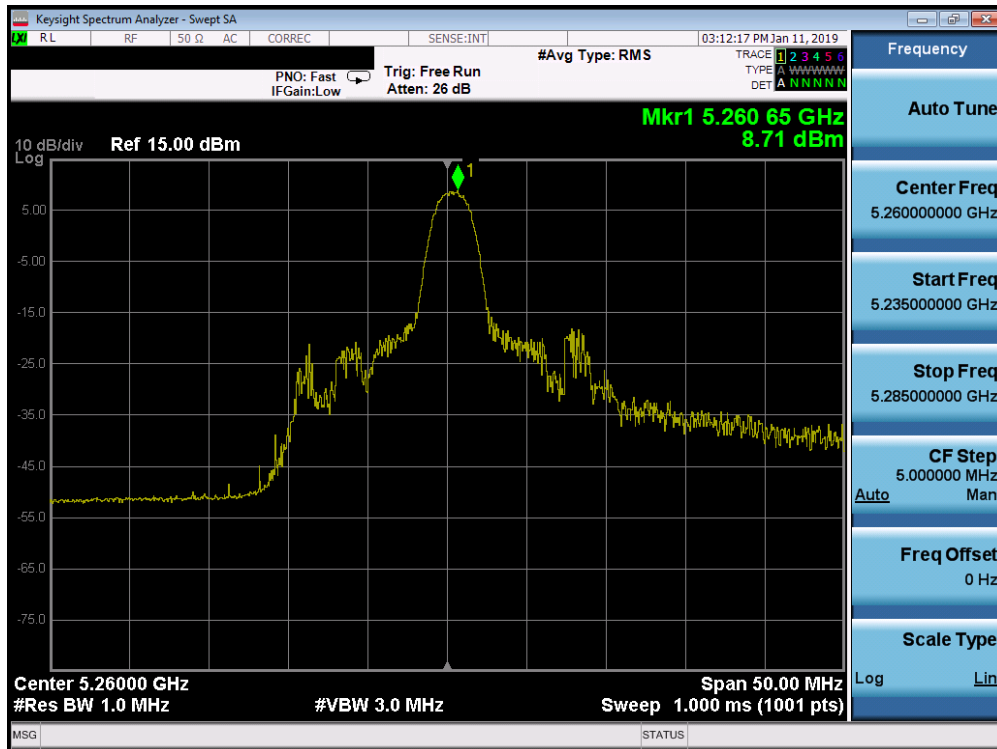


Plot 7-242. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

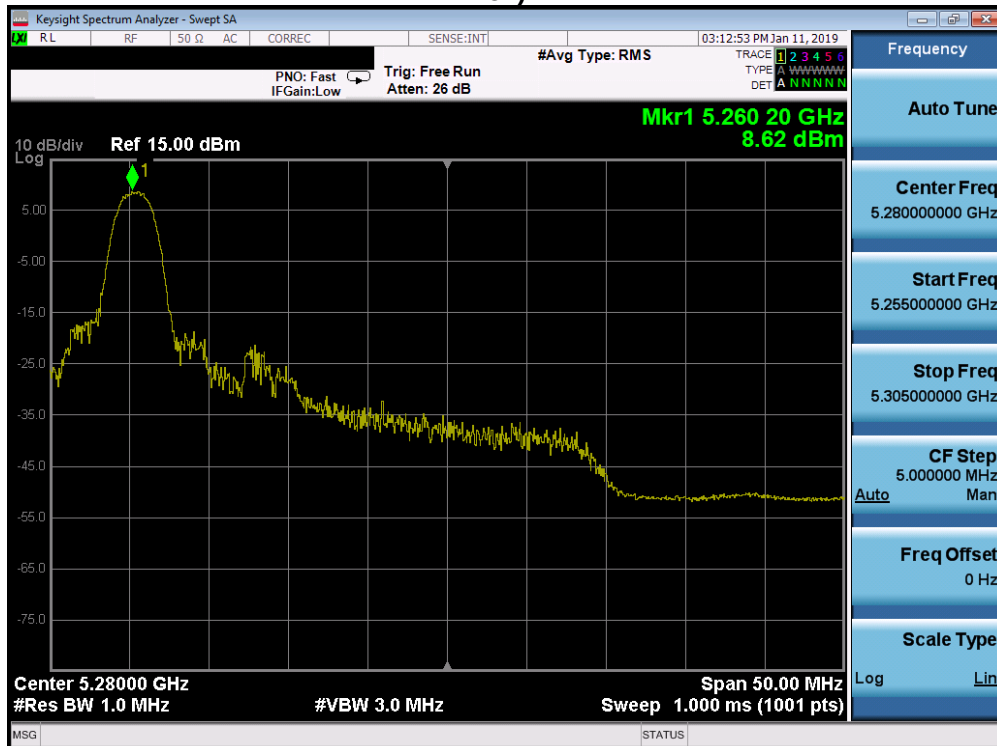


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 185 of 514

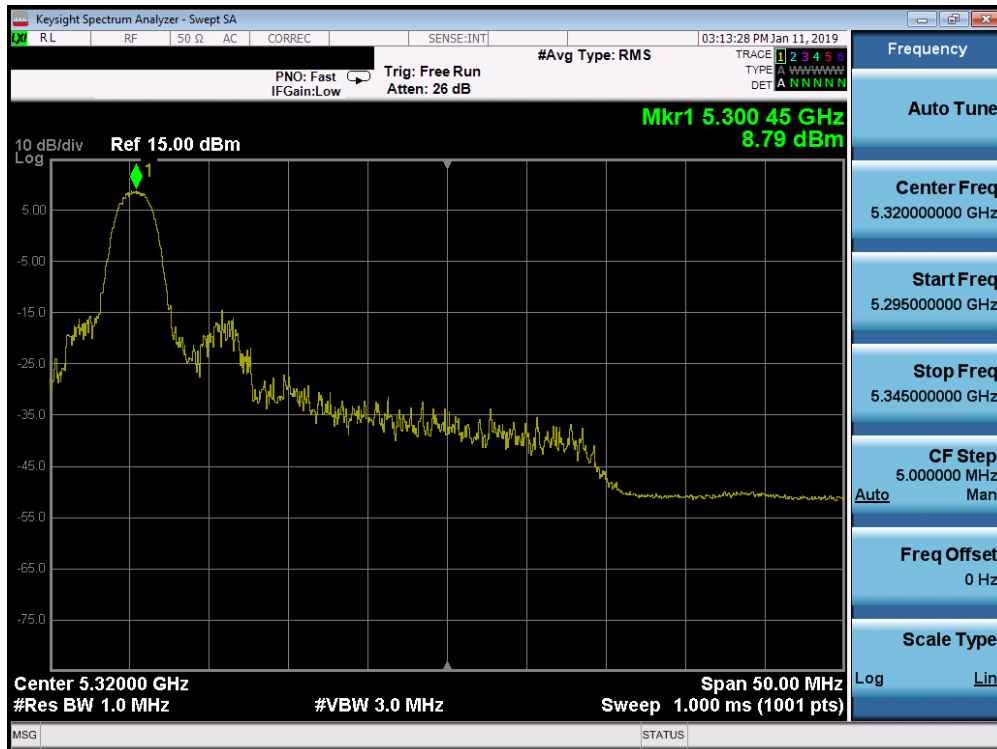


Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

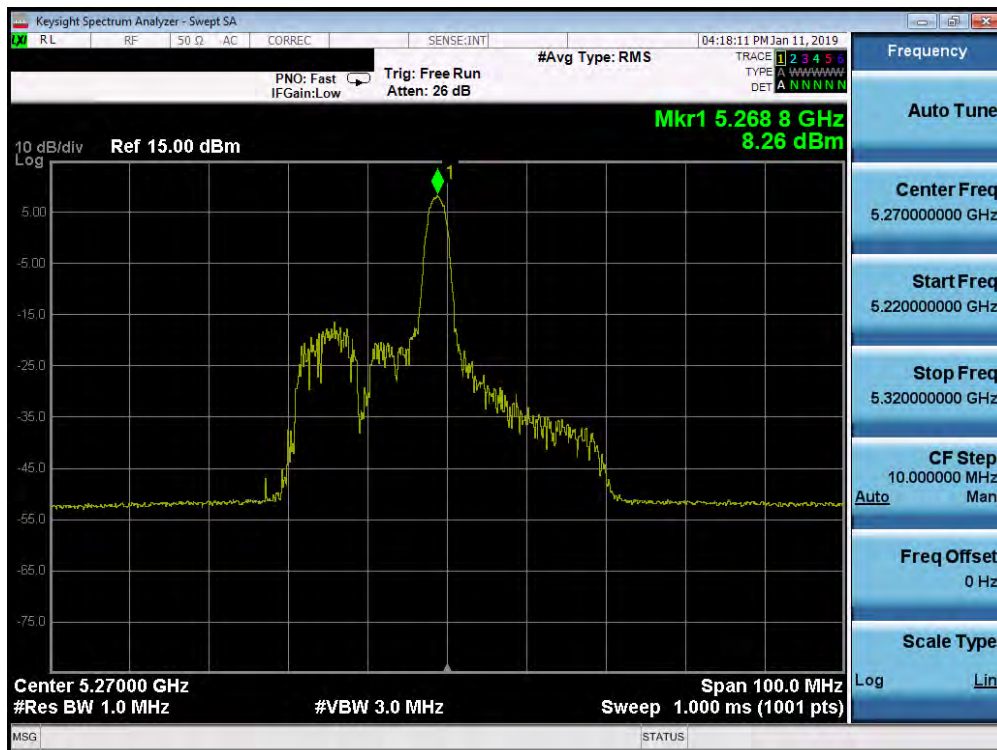


Plot 7-245. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 186 of 514		



Plot 7-246. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

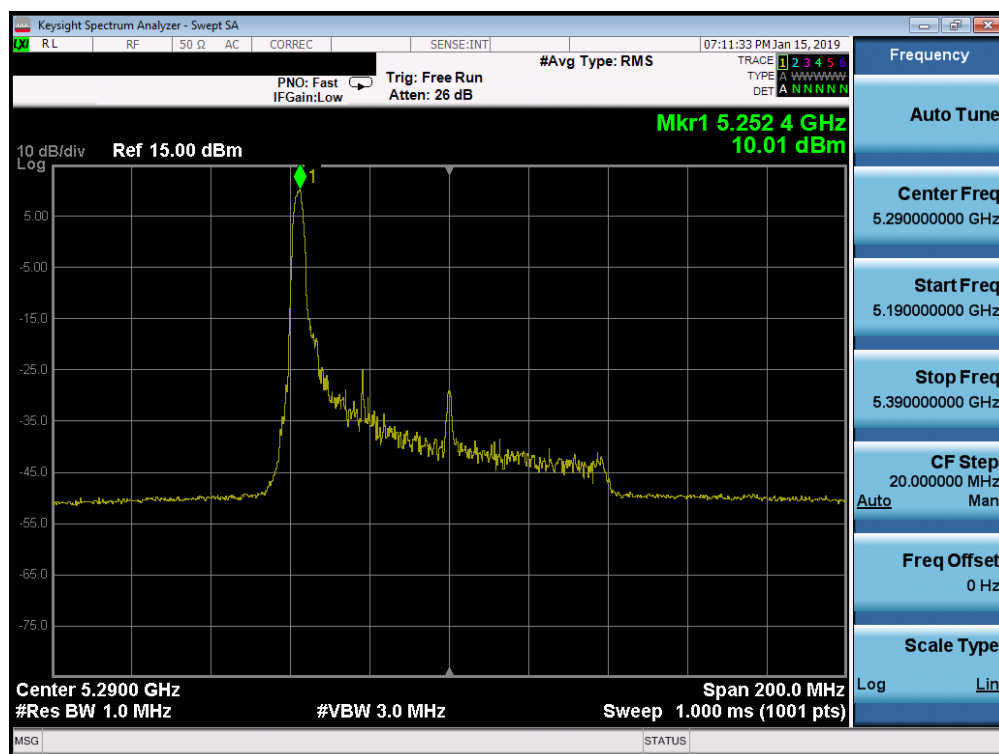


Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 187 of 514		

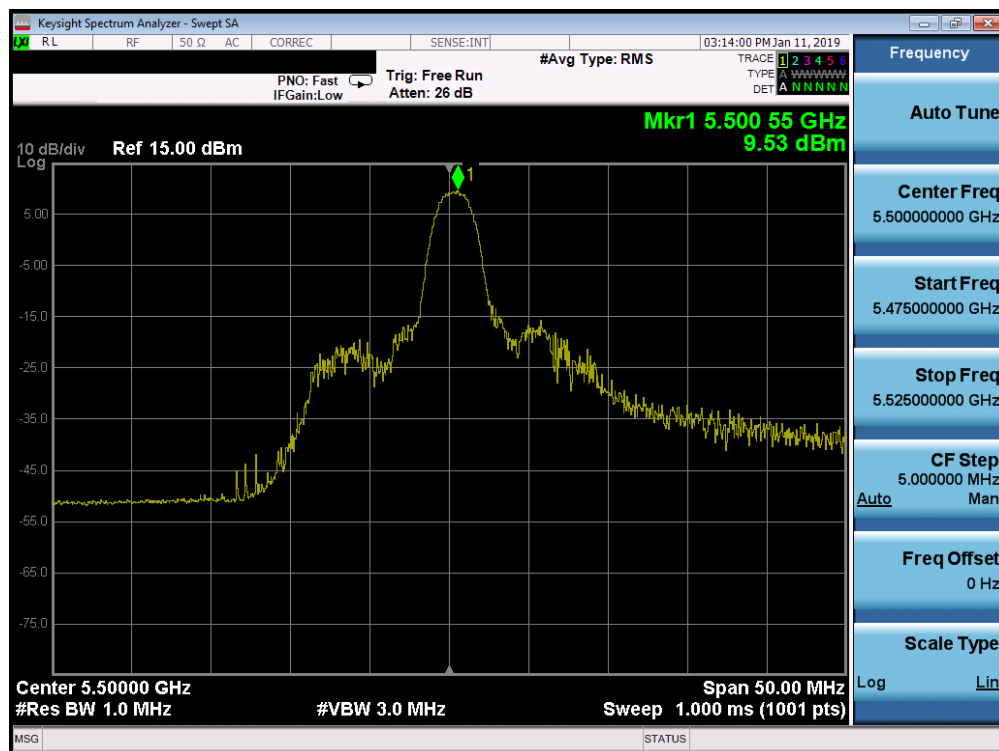


Plot 7-248. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

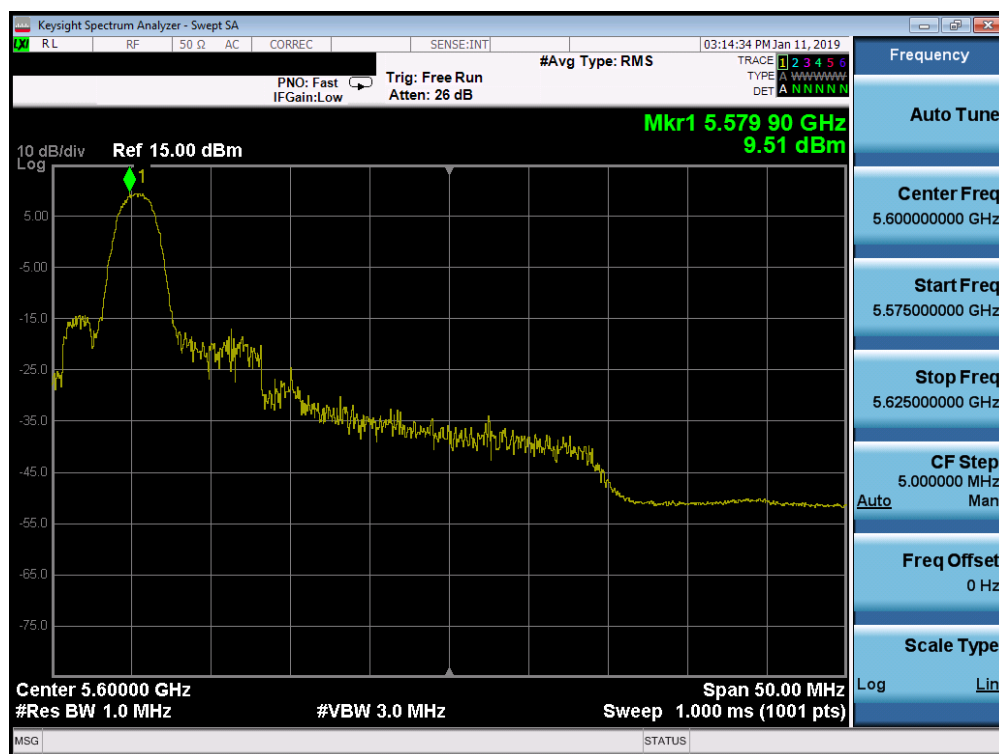


Plot 7-249. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 188 of 514

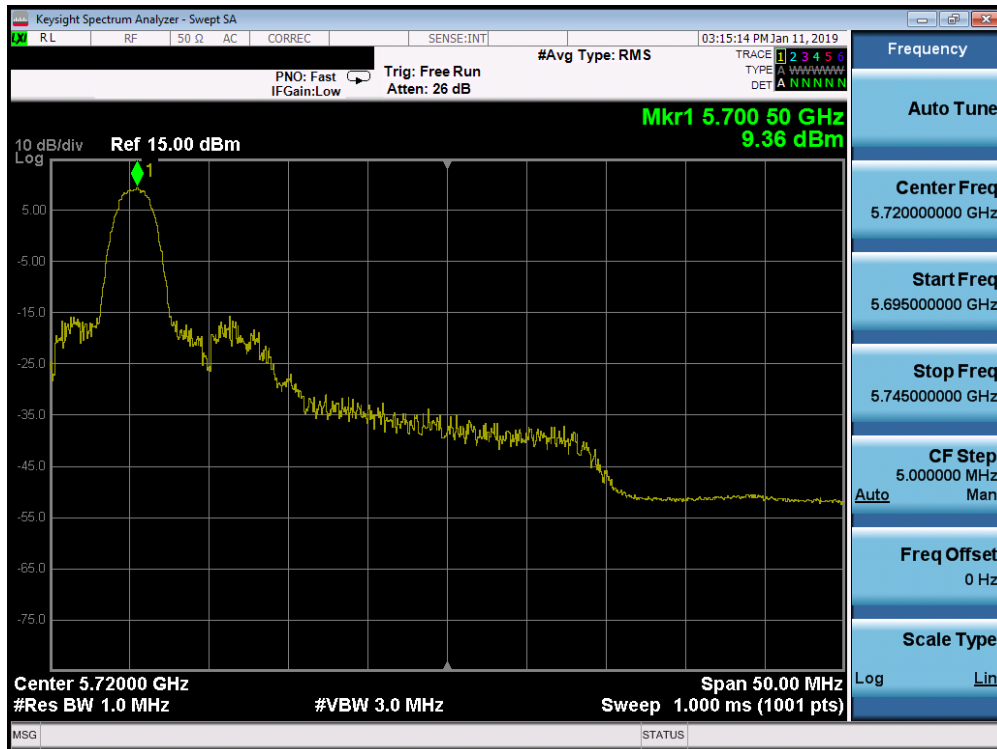


Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

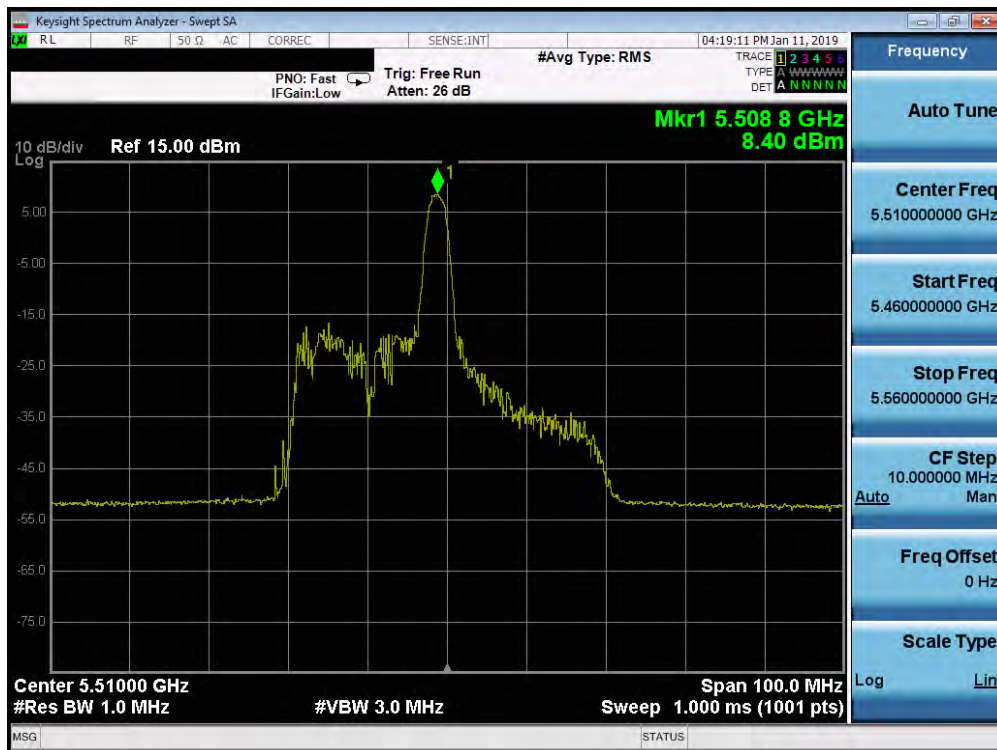


Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 189 of 514



Plot 7-252. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

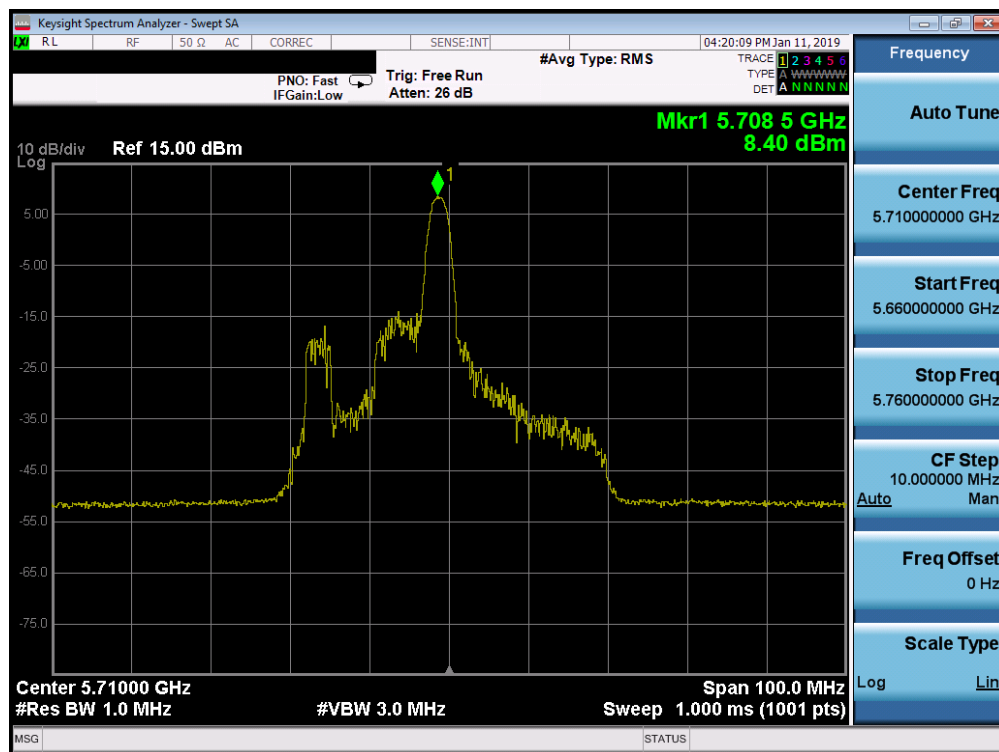


Plot 7-253. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 190 of 514		

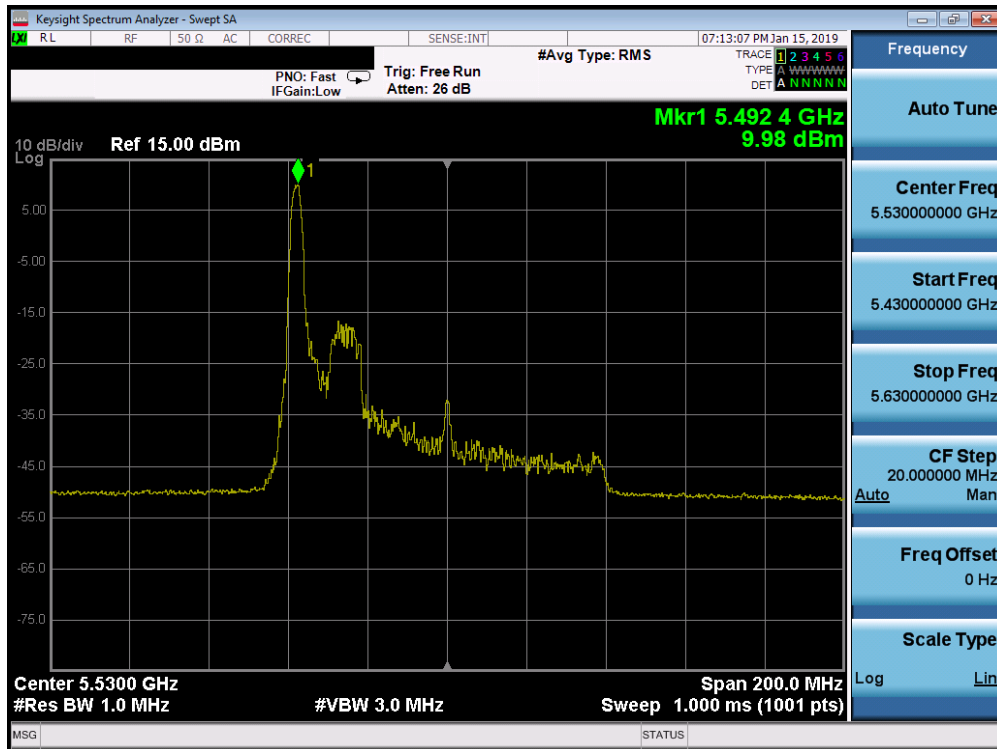


Plot 7-254. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

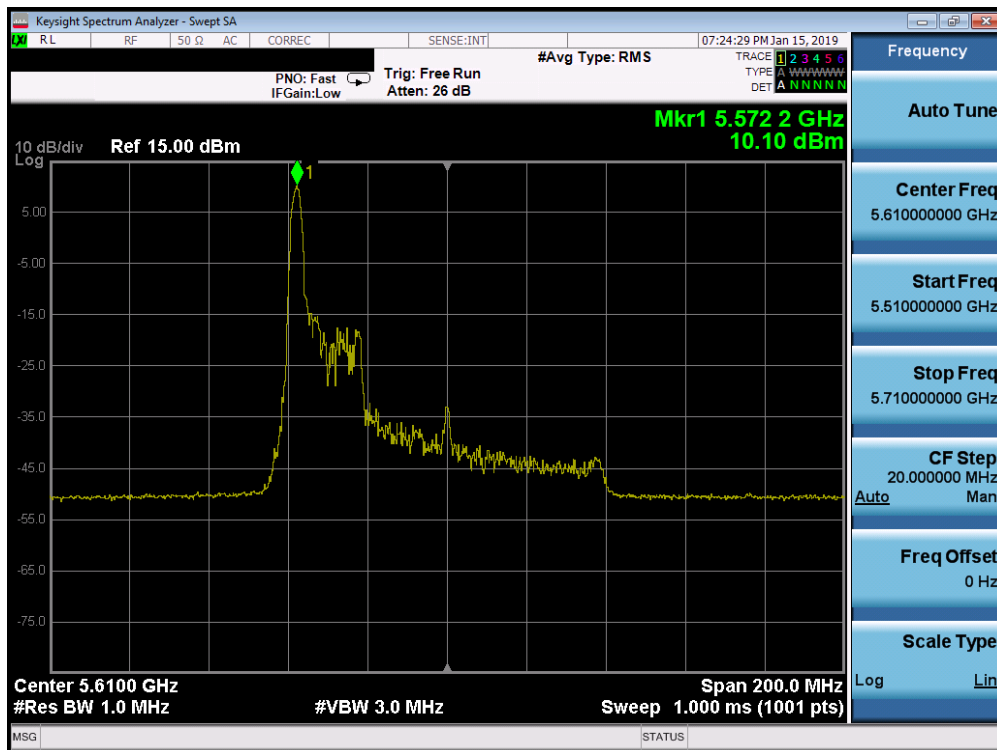


Plot 7-255. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 191 of 514		

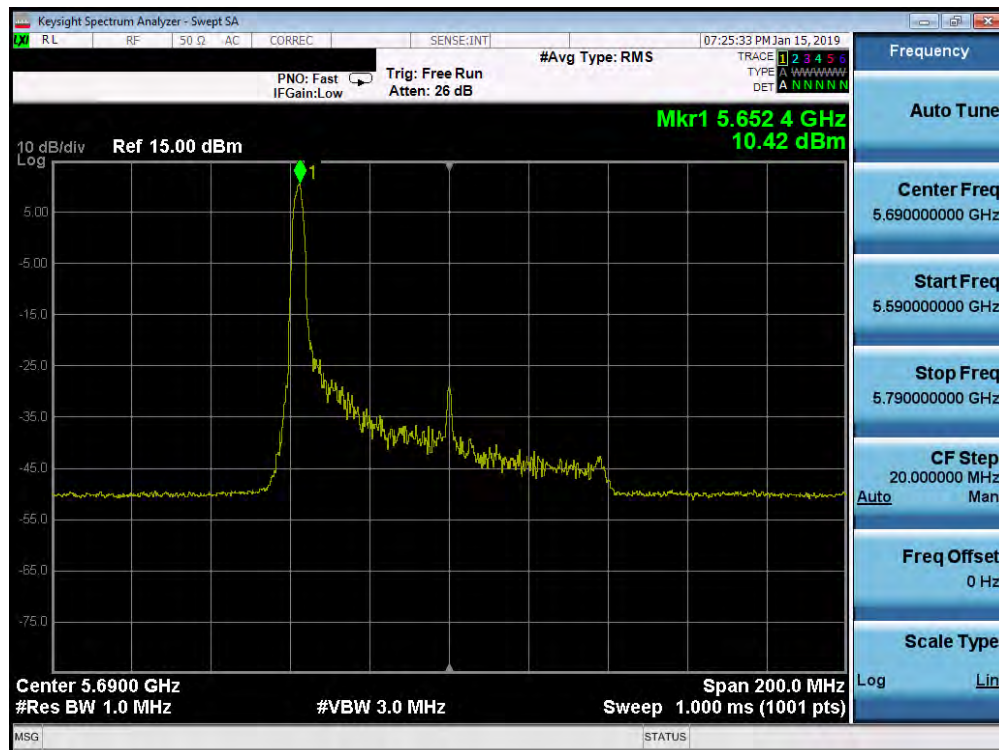


Plot 7-256. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 192 of 514



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

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 193 of 514

Keysight Spectrum Analyzer - Swept SA

03:19:21 PM Jan 11, 2019

RL RF 50 Ω AC CORREC SENSE:INT #Avg Type: RMS

TRACE 1 2 3 4 5
TYPE A W W W W W
DET A N N N N N

PNO: Fast IFGain:Low Trig: Free Run Atten: 26 dB

10 dB/div Log Ref 15.00 dBm

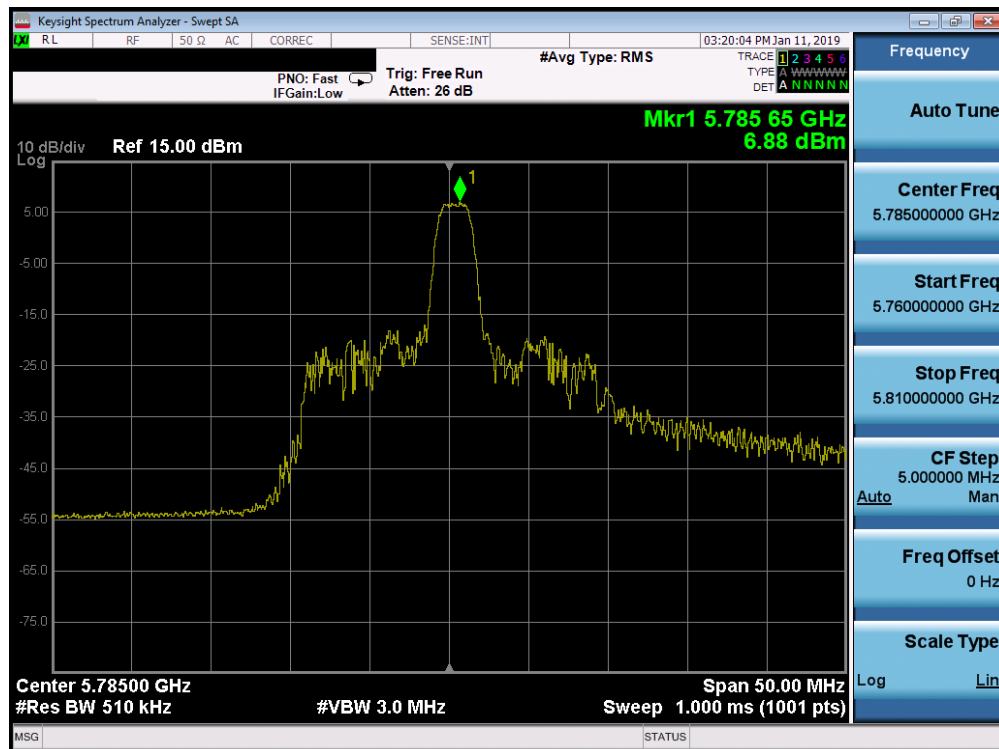
Mkr1 5.745 35 GHz
6.79 dBm

Center Freq 5.74500000 GHz
Start Freq 5.720000000 GHz
Stop Freq 5.770000000 GHz
CF Step 5.000000 MHz
Auto Man
Freq Offset 0 Hz
Scale Type Lin Log

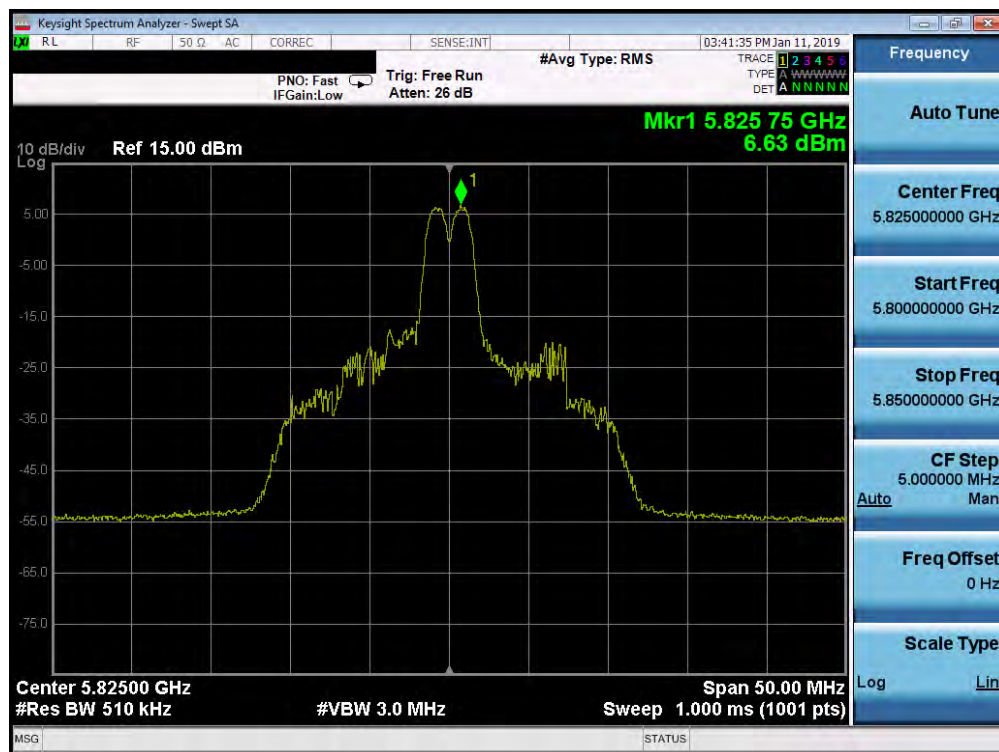
Center 5.74500 GHz Span 50.00 MHz
#Res BW 510 kHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

MSG STATUS

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 194 of 514

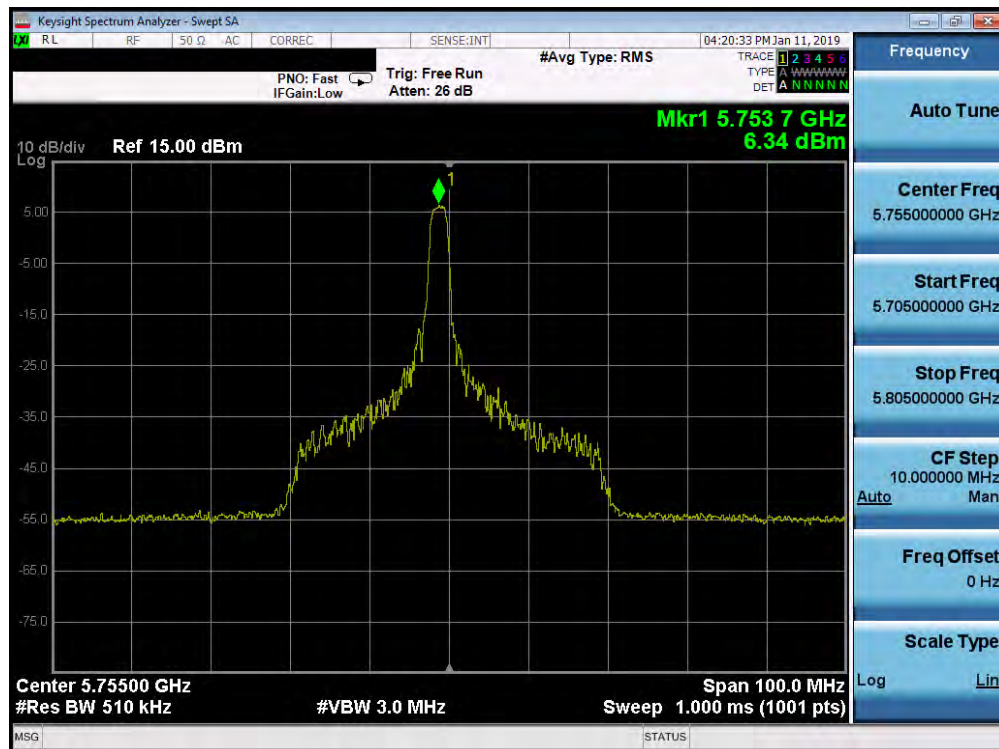


Plot 7-260. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

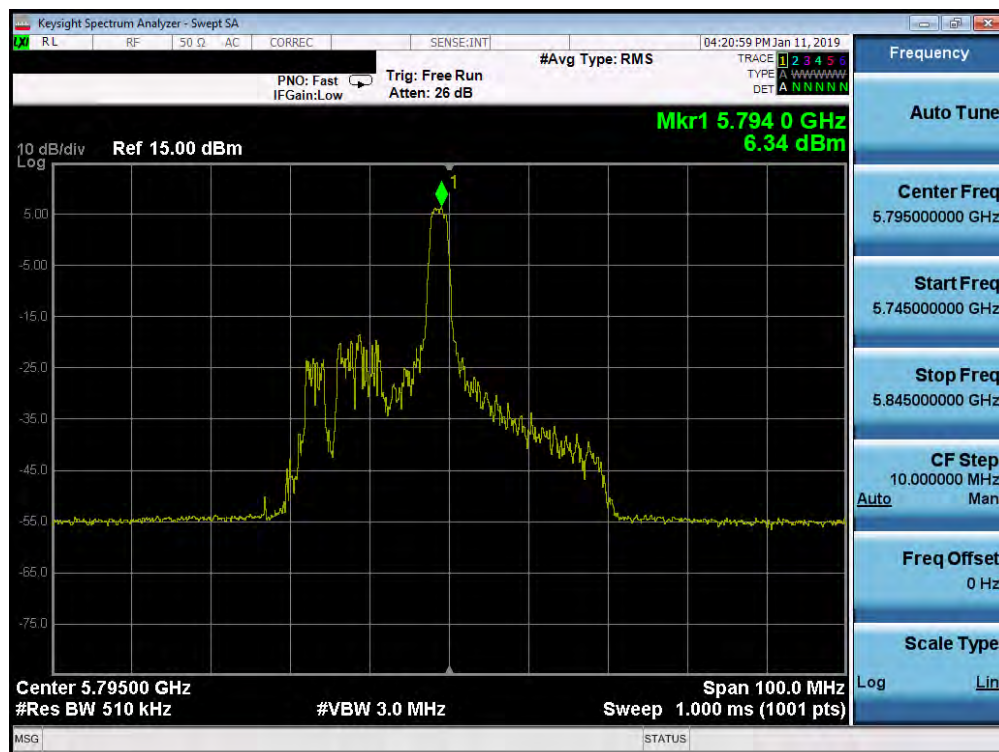


Plot 7-261. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 195 of 514

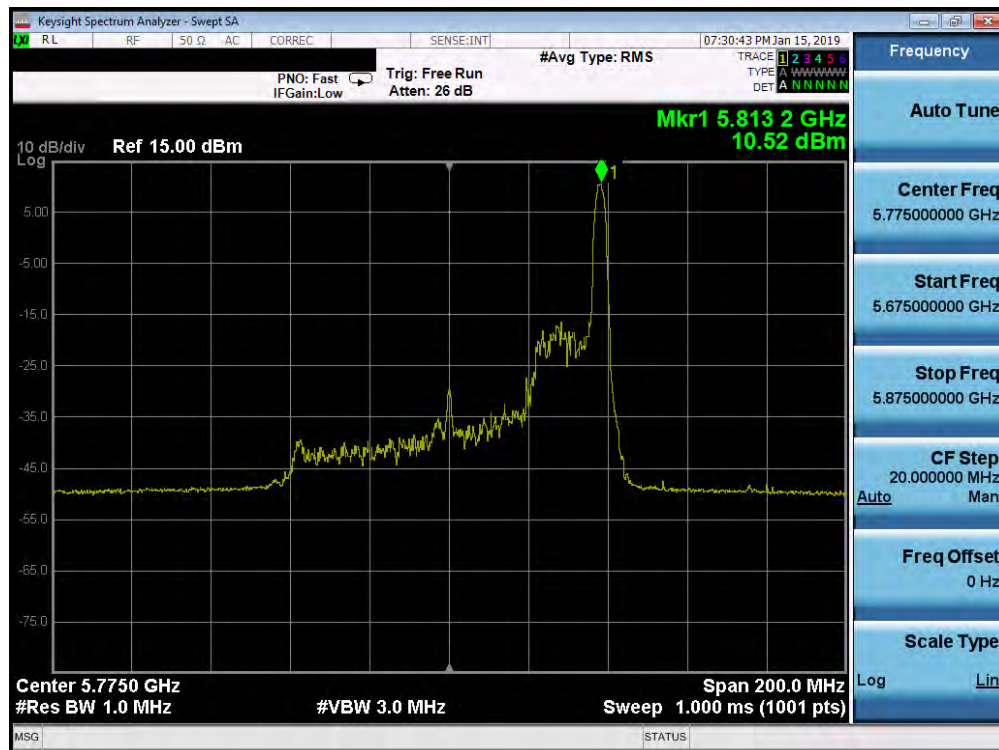


Plot 7-262. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 196 of 514



Plot 7-264. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 197 of 514

SISO Antenna-2 Power Spectral Density Measurements (52 Tones)

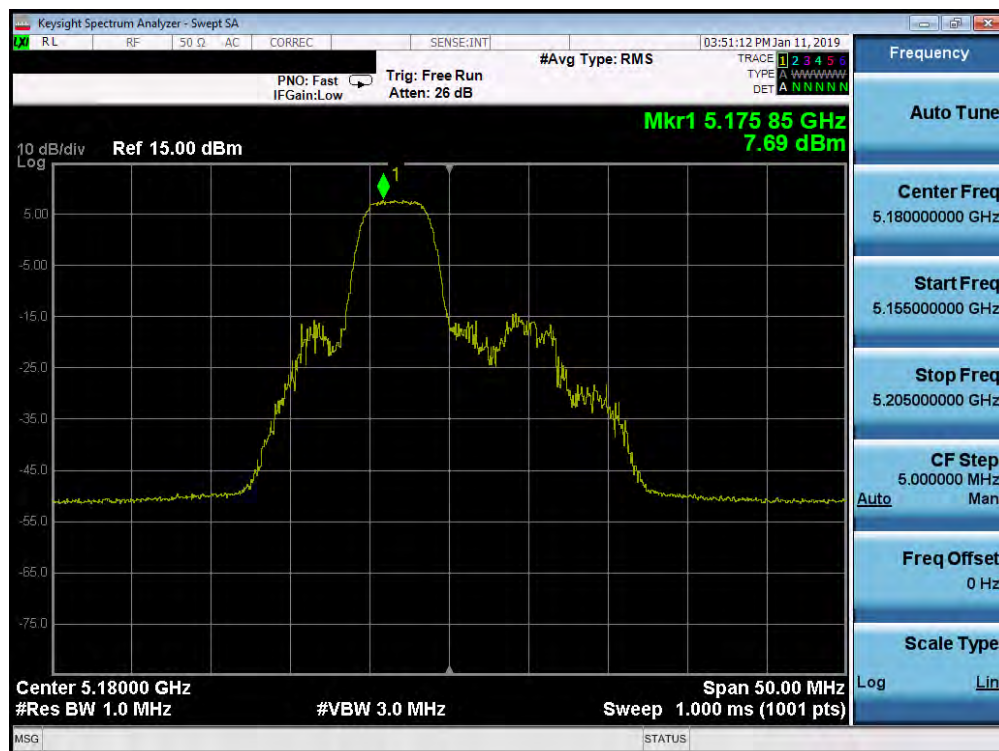
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	7.69	11.00	-3.31
	5200	40	ax (20MHz)	52T	MCS0	7.79	11.00	-3.21
	5240	48	ax (20MHz)	52T	MCS0	7.88	11.00	-3.12
	5190	38	ax (40MHz)	52T	MCS0	7.60	11.00	-3.40
	5230	46	ax (40MHz)	52T	MCS0	7.79	11.00	-3.21
	5210	42	ax (80MHz)	52T	MCS0	9.40	11.00	-1.60
Band 2A	5260	52	ax (20MHz)	52T	MCS0	7.63	11.00	-3.37
	5280	56	ax (20MHz)	52T	MCS0	7.64	11.00	-3.36
	5320	64	ax (20MHz)	52T	MCS0	8.06	11.00	-2.94
	5270	54	ax (40MHz)	52T	MCS0	7.29	11.00	-3.71
	5310	62	ax (40MHz)	52T	MCS0	7.65	11.00	-3.35
	5290	58	ax (80MHz)	52T	MCS0	8.76	11.00	-2.24
Band 2C	5500	100	ax (20MHz)	52T	MCS0	8.60	11.00	-2.40
	5600	120	ax (20MHz)	52T	MCS0	8.60	11.00	-2.40
	5720	144	ax (20MHz)	52T	MCS0	8.19	11.00	-2.81
	5510	102	ax (40MHz)	52T	MCS0	7.78	11.00	-3.22
	5590	118	ax (40MHz)	52T	MCS0	7.78	11.00	-3.22
	5710	142	ax (40MHz)	52T	MCS0	7.53	11.00	-3.47
	5530	106	ax (80MHz)	52T	MCS0	9.03	11.00	-1.97
	5610	122	ax (80MHz)	52T	MCS0	9.70	11.00	-1.30
	5690	138	ax (80MHz)	52T	MCS0	9.50	11.00	-1.50

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

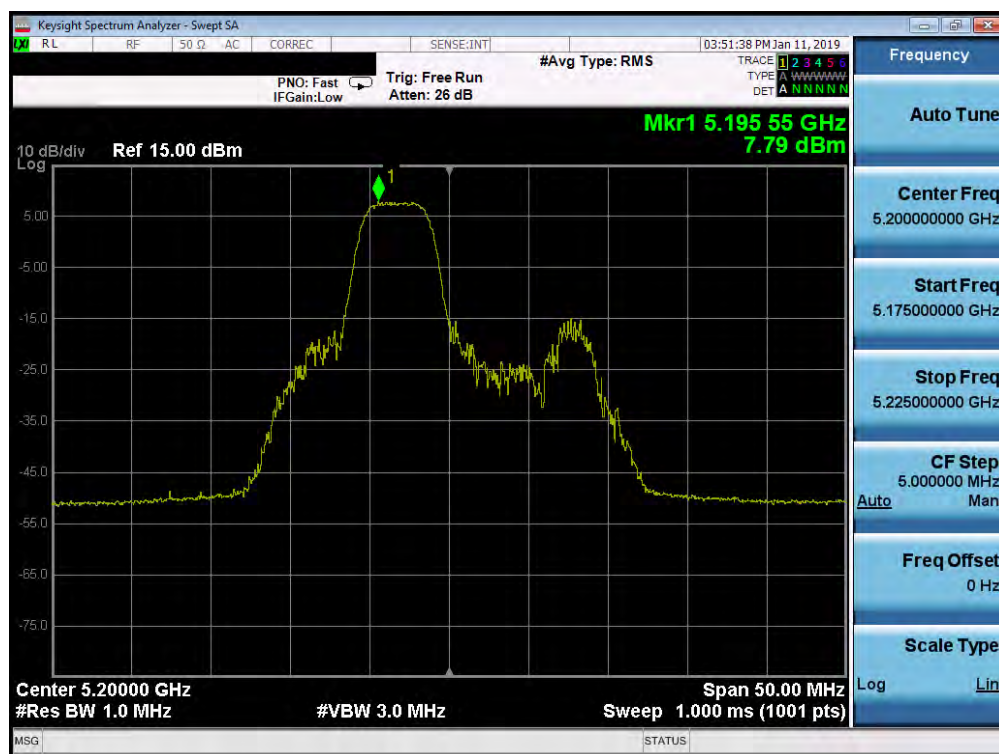
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	52T	MCS0	7.69	-7.70	-0.01	10.0	-10.01
	5200	40	ax (20MHz)	52T	MCS0	7.79	-7.57	0.22	10.0	-9.78
	5240	48	ax (20MHz)	52T	MCS0	7.88	-8.01	-0.13	10.0	-10.13
	5190	38	ax (40MHz)	52T	MCS0	7.60	-7.57	0.03	10.0	-9.97
	5230	46	ax (40MHz)	52T	MCS0	7.79	-8.01	-0.22	10.0	-10.22
	5210	42	ax (80MHz)	52T	MCS0	9.40	-7.57	1.83	10.0	-8.17

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

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	
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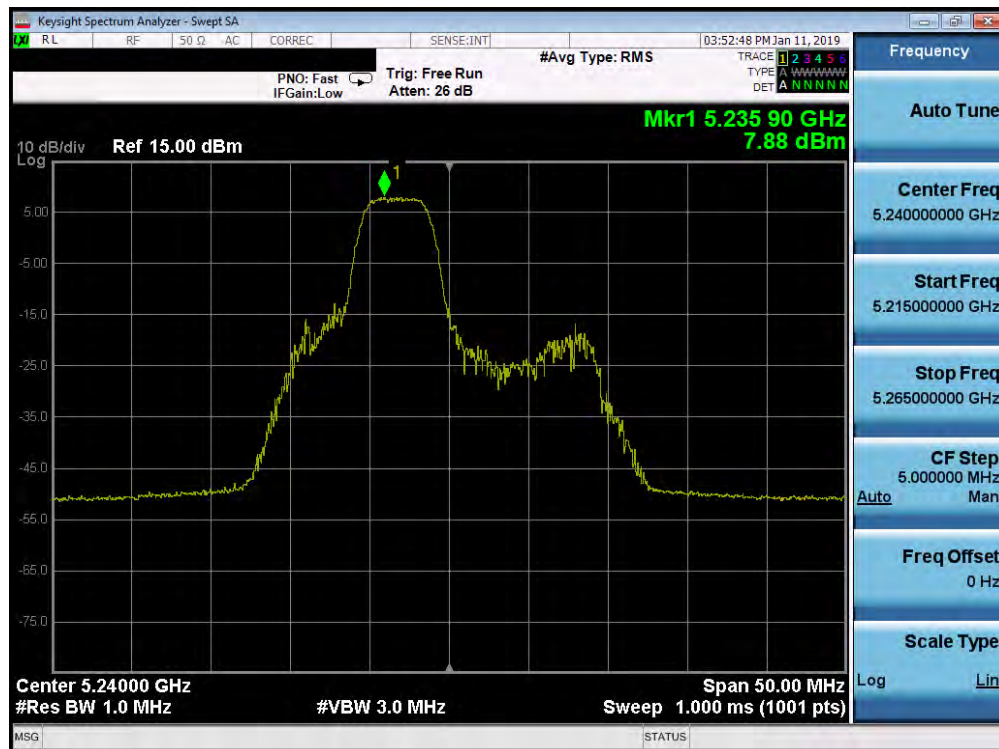


Plot 7-265. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 52 Tones (UNII Band 1) - Ch. 36)

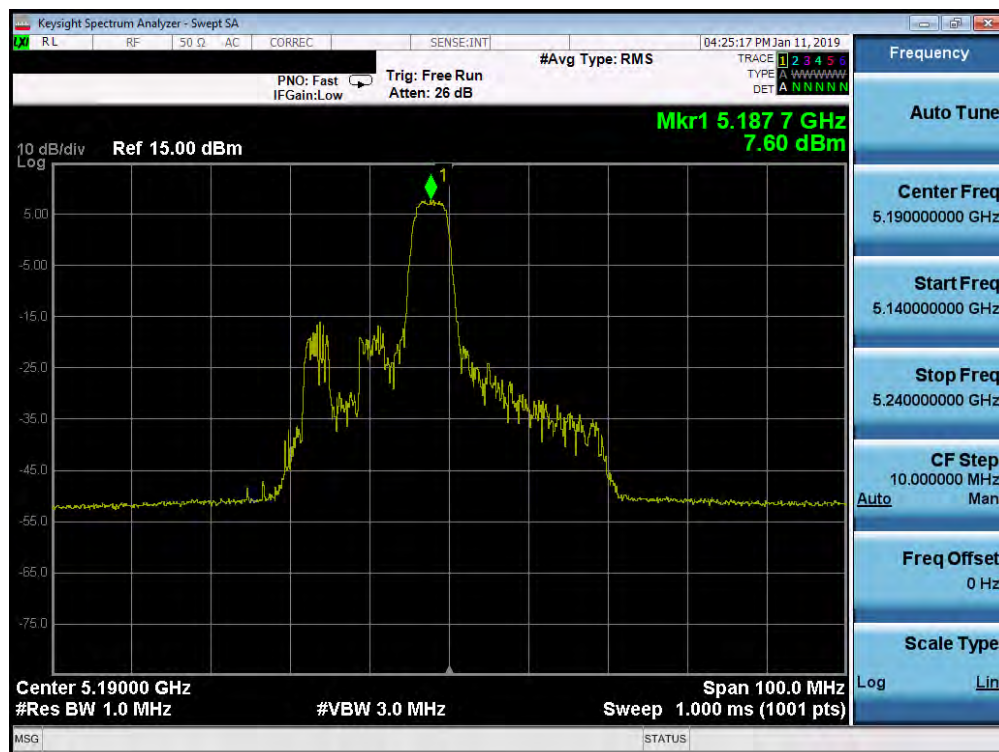


Plot 7-266. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 52 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 199 of 514

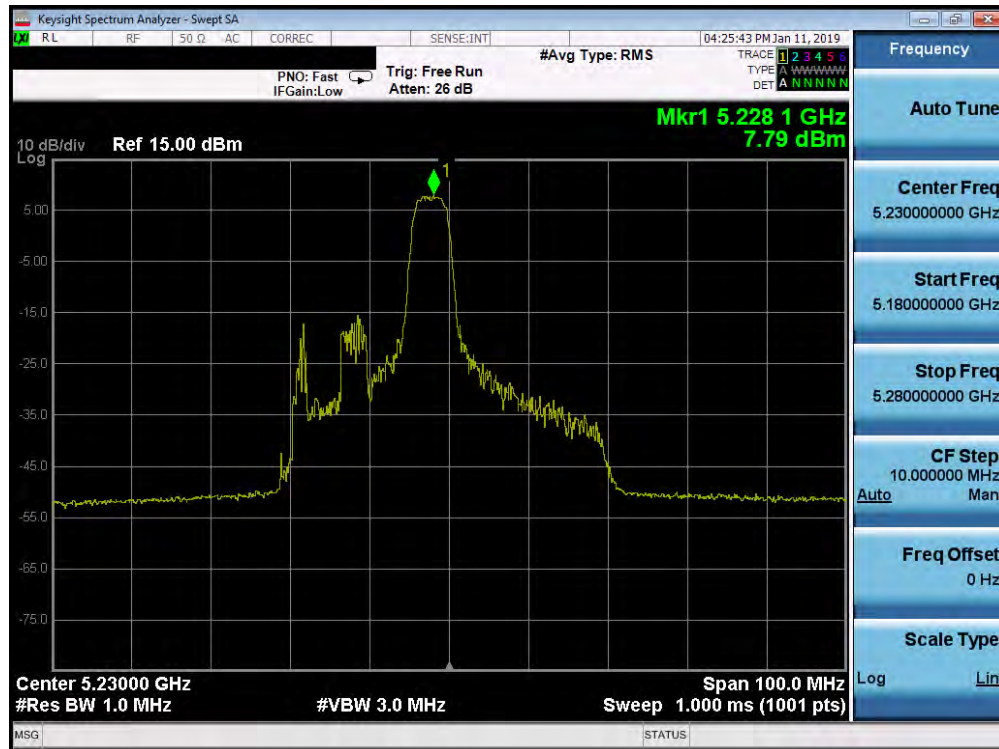


Plot 7-267. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 48)

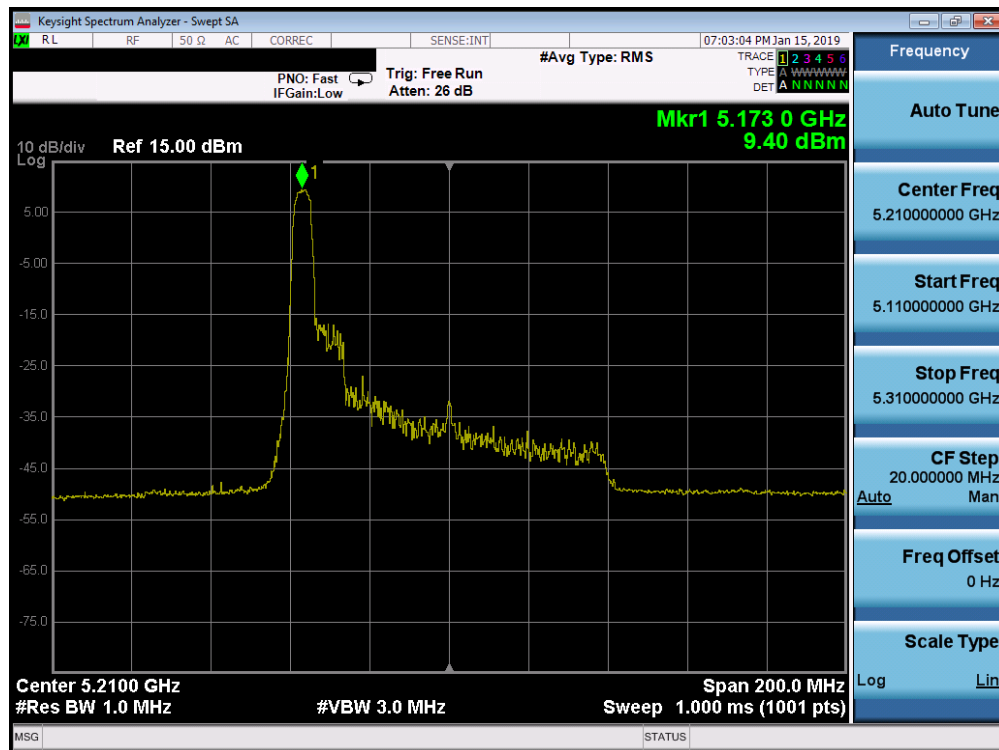


Plot 7-268. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset			Page 200 of 514

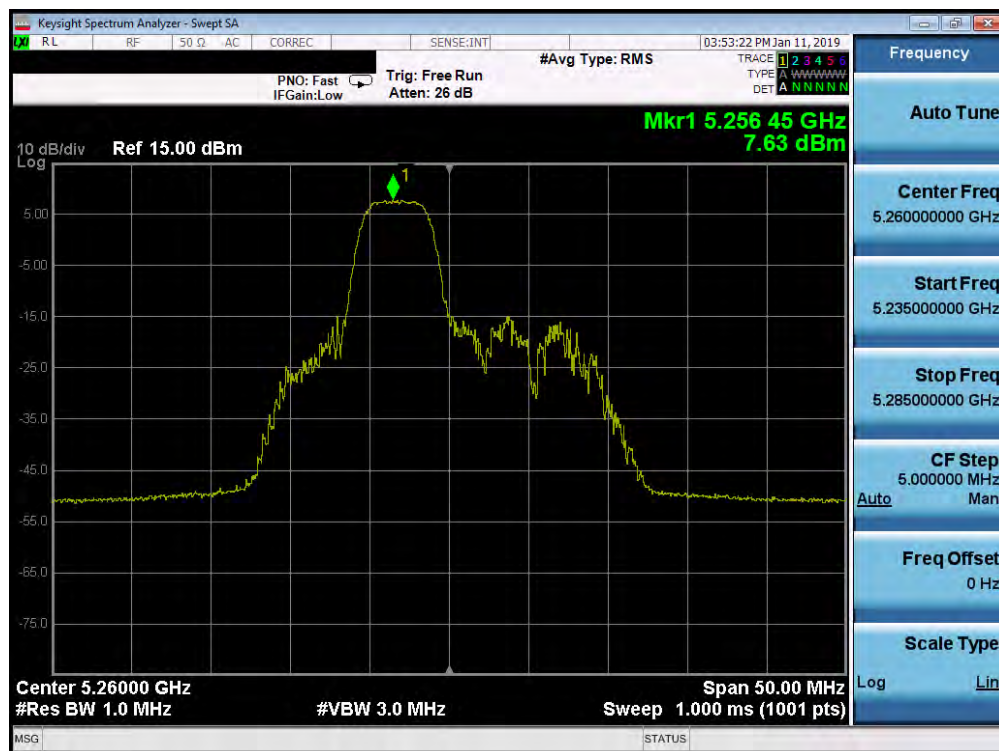


Plot 7-269. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 46)

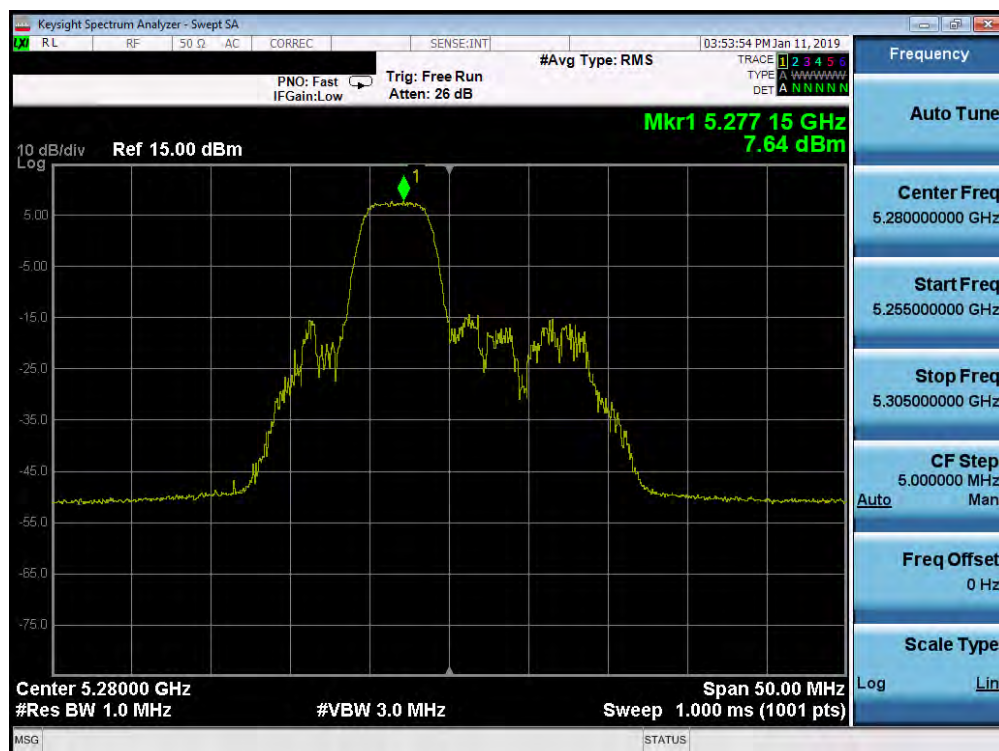


Plot 7-270. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 201 of 514

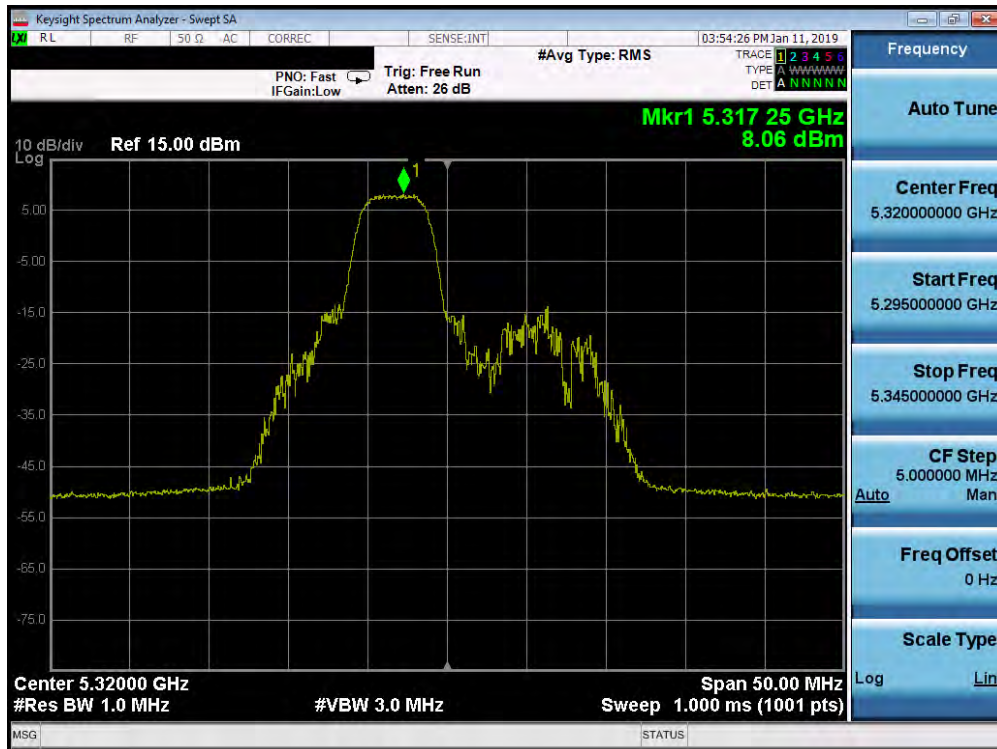


Plot 7-271. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 52)

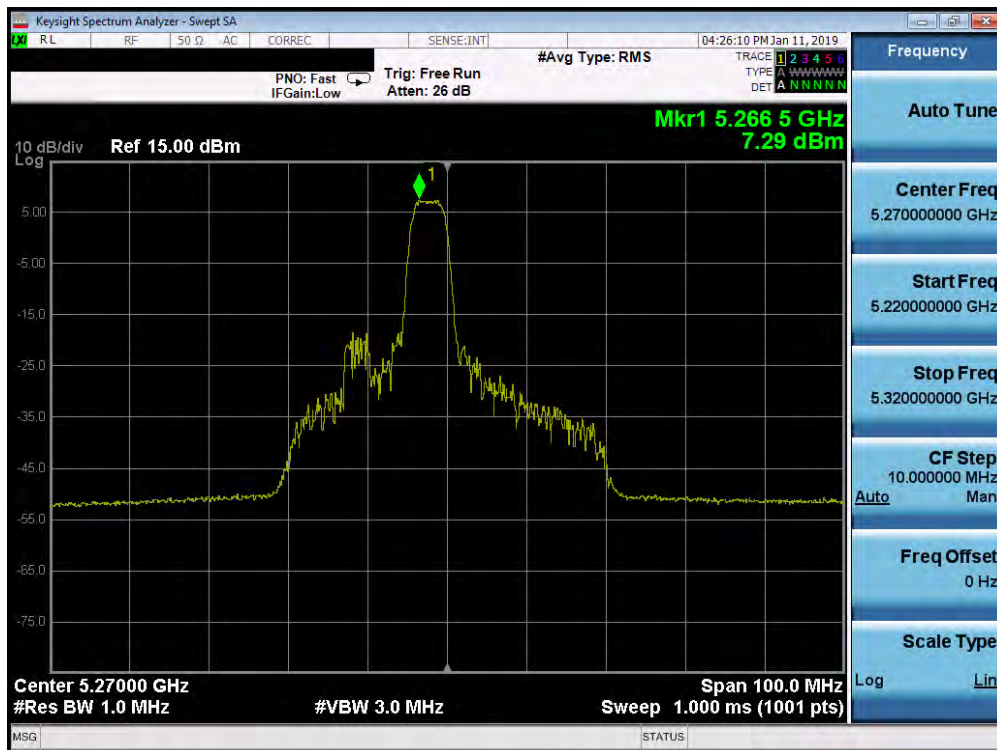


Plot 7-272. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 202 of 514

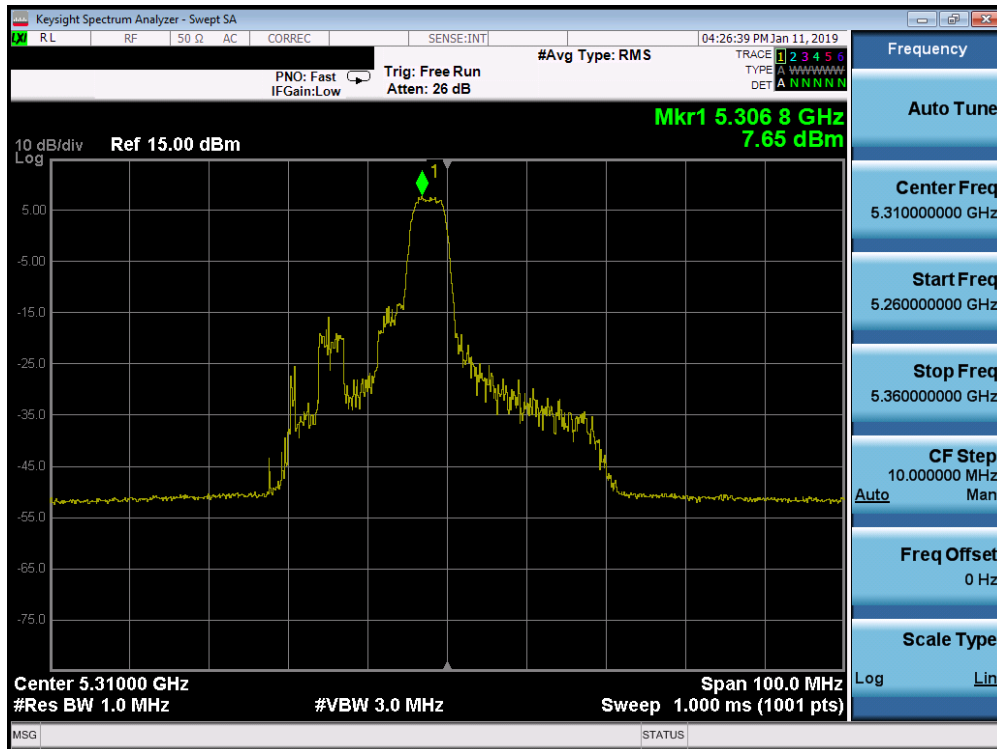


Plot 7-273. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 64)

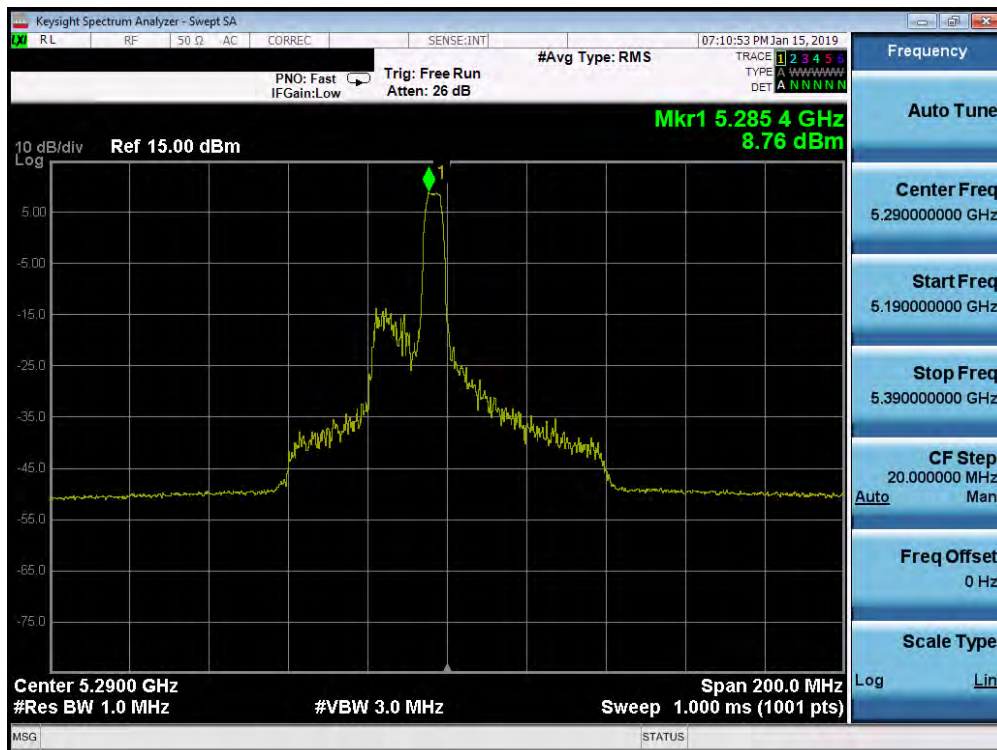


Plot 7-274. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 203 of 514

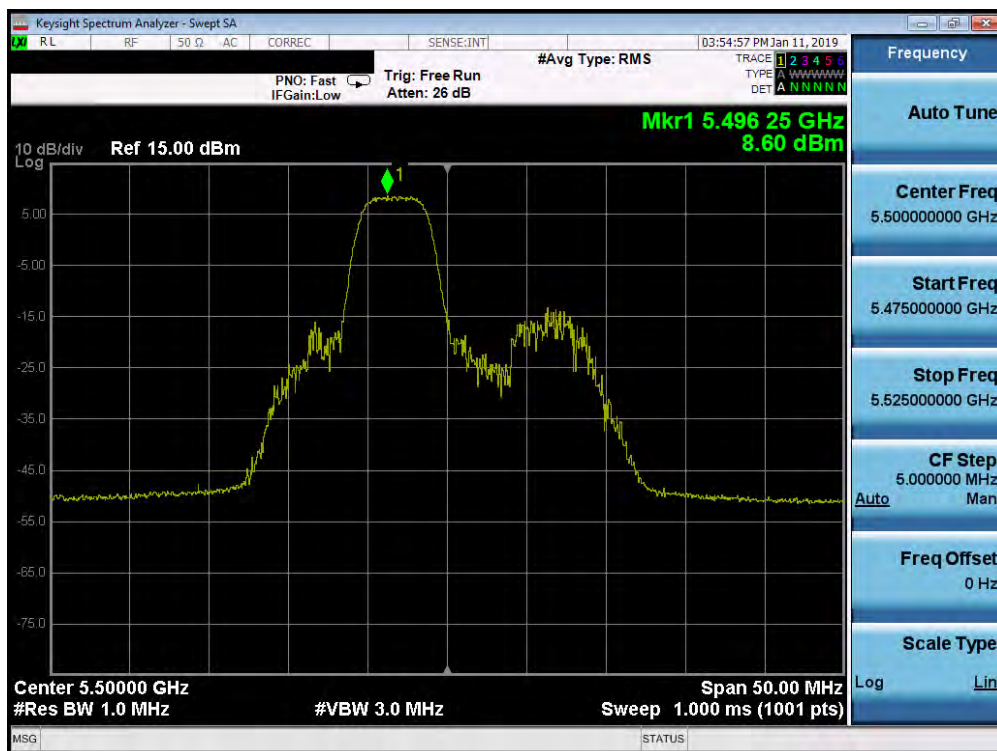


Plot 7-275. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 62)

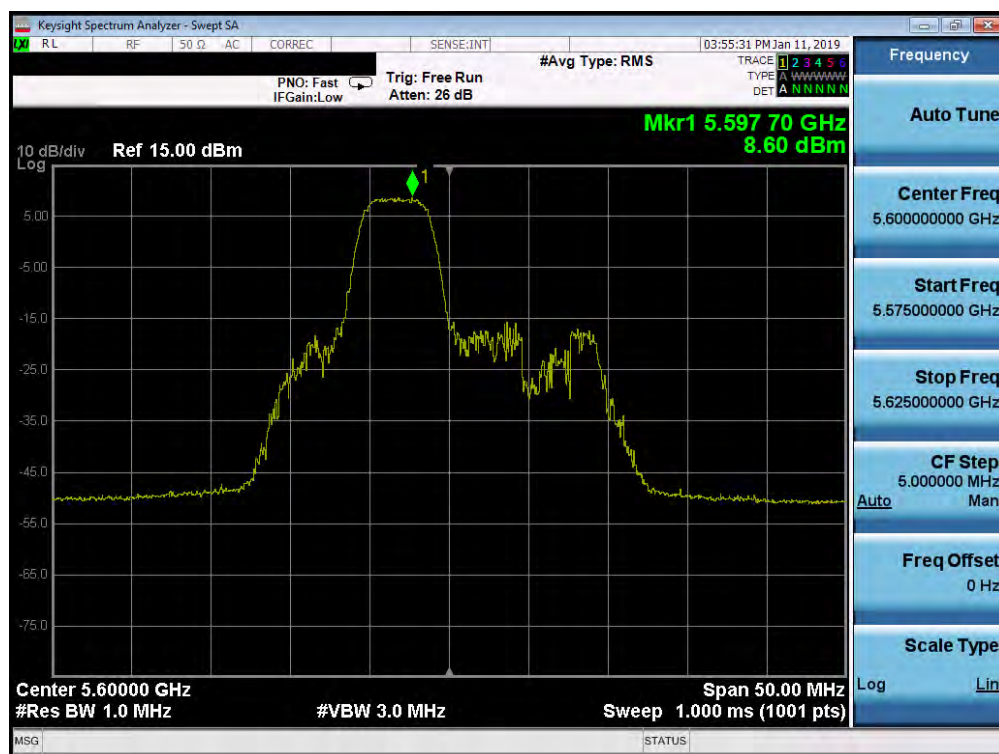


Plot 7-276. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG973U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 204 of 514

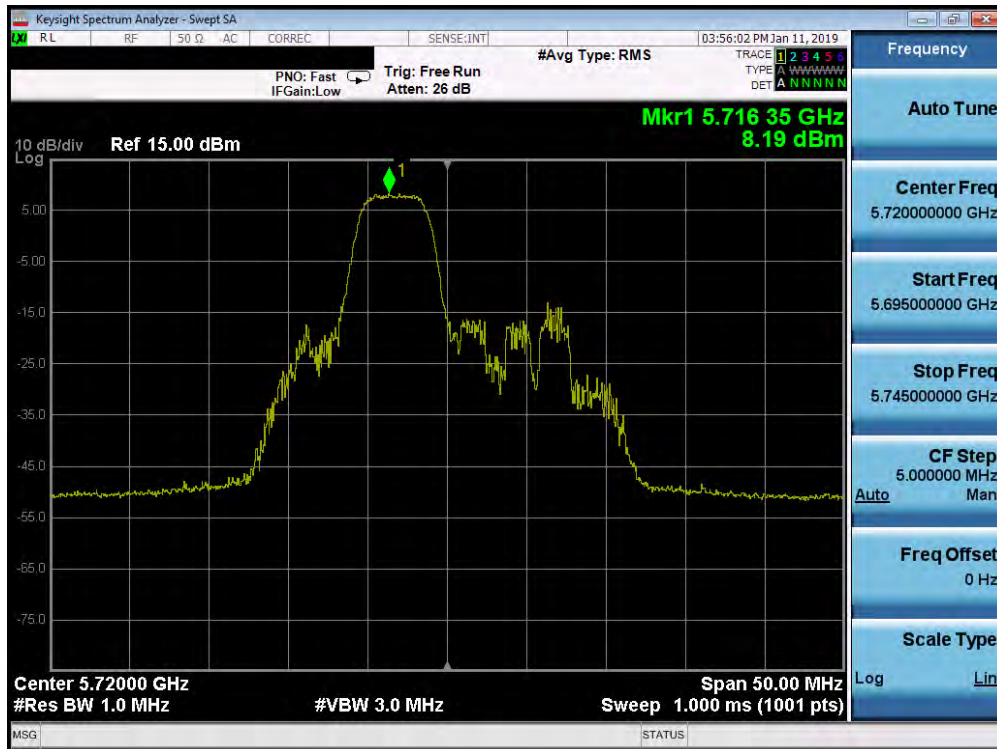


Plot 7-277. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 100)

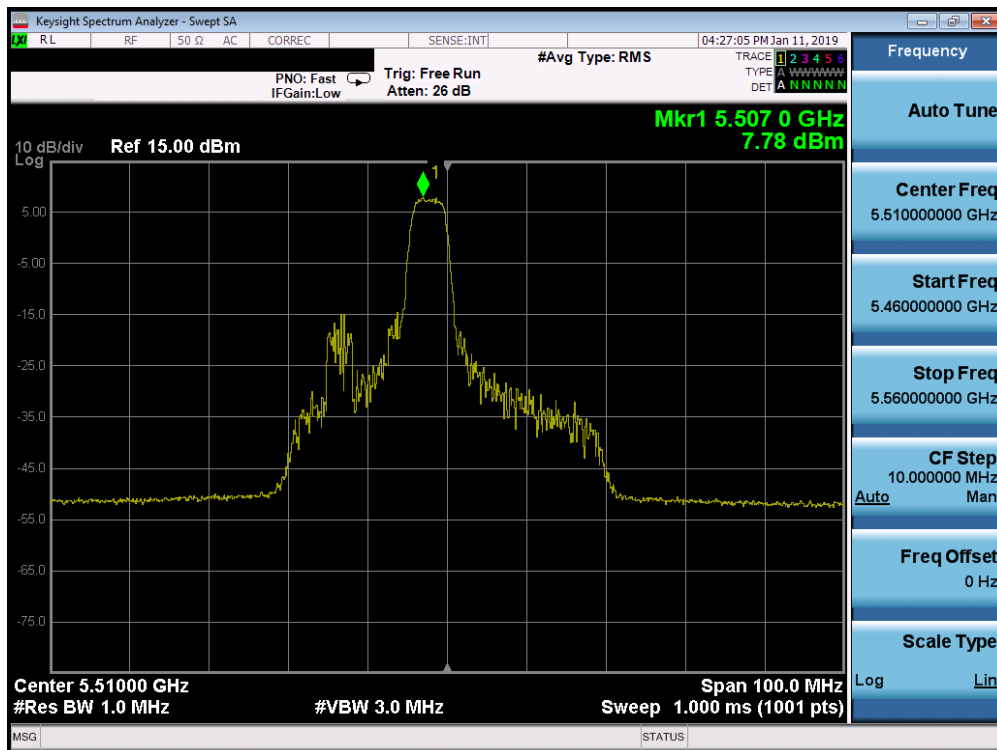


Plot 7-278. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG973U	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset	Page 205 of 514

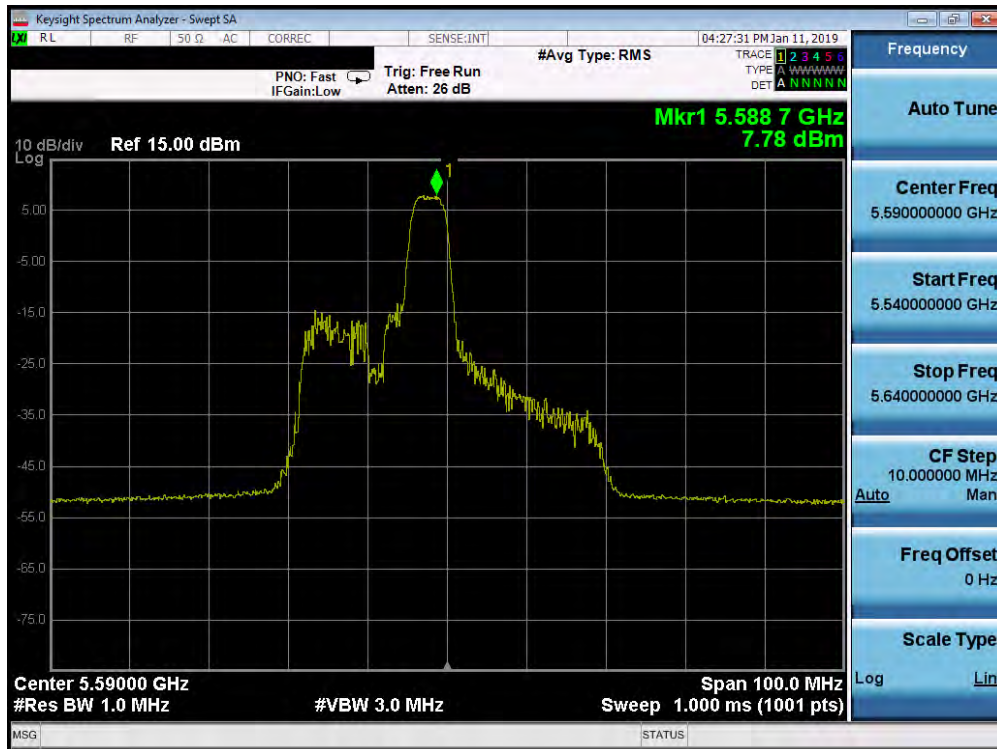


Plot 7-279. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 144)

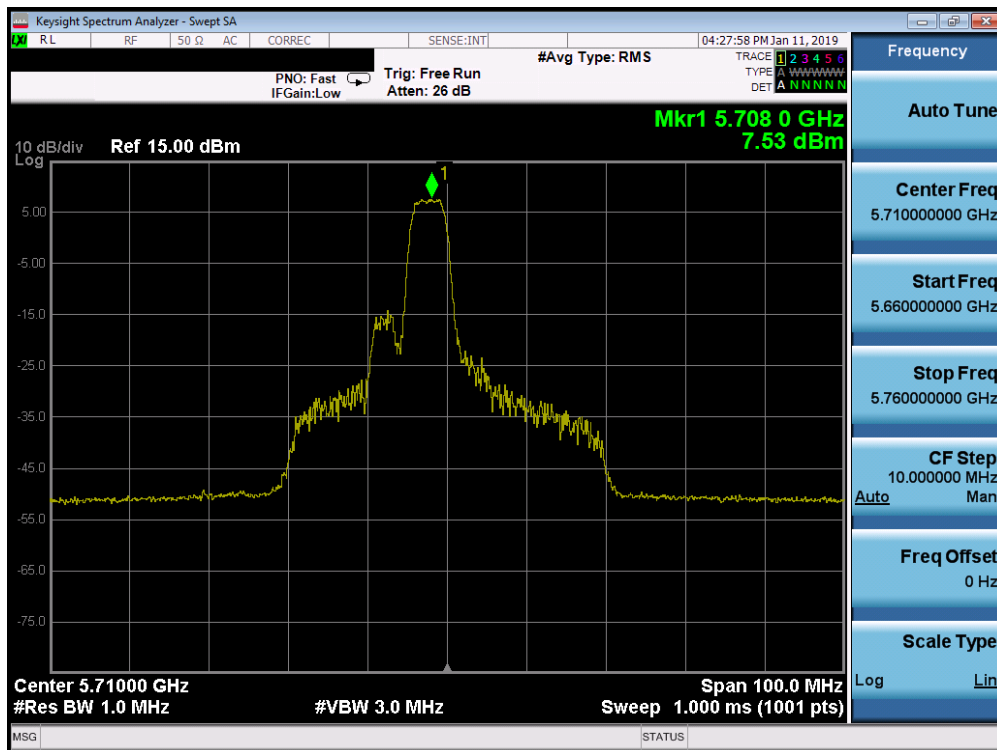


Plot 7-280. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 206 of 514

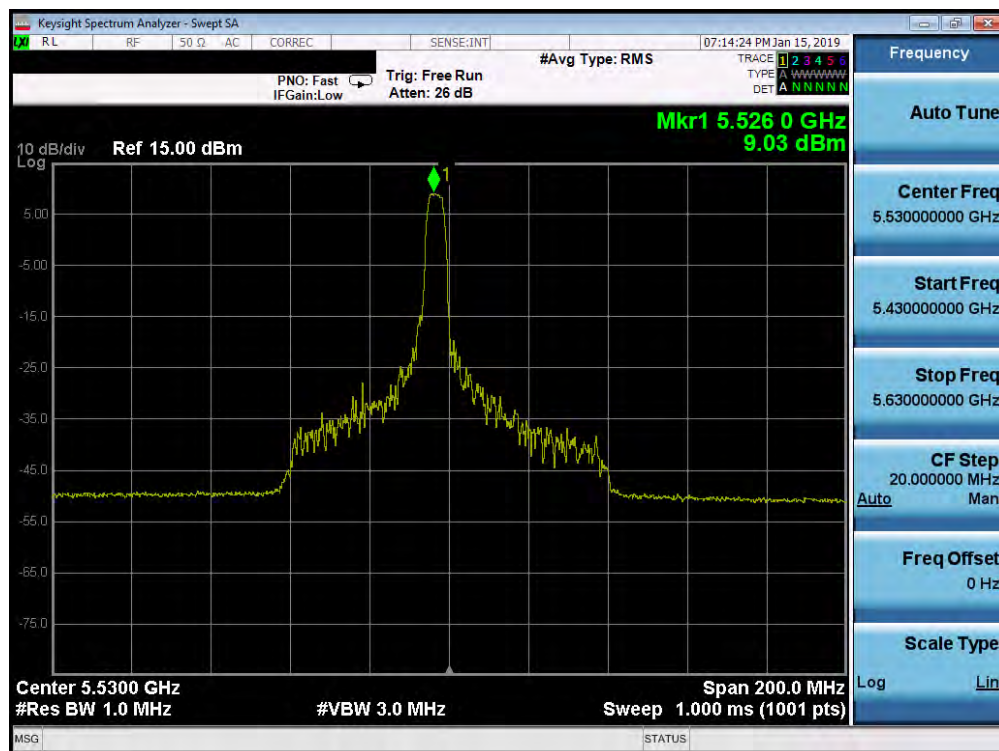


Plot 7-281. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 118)

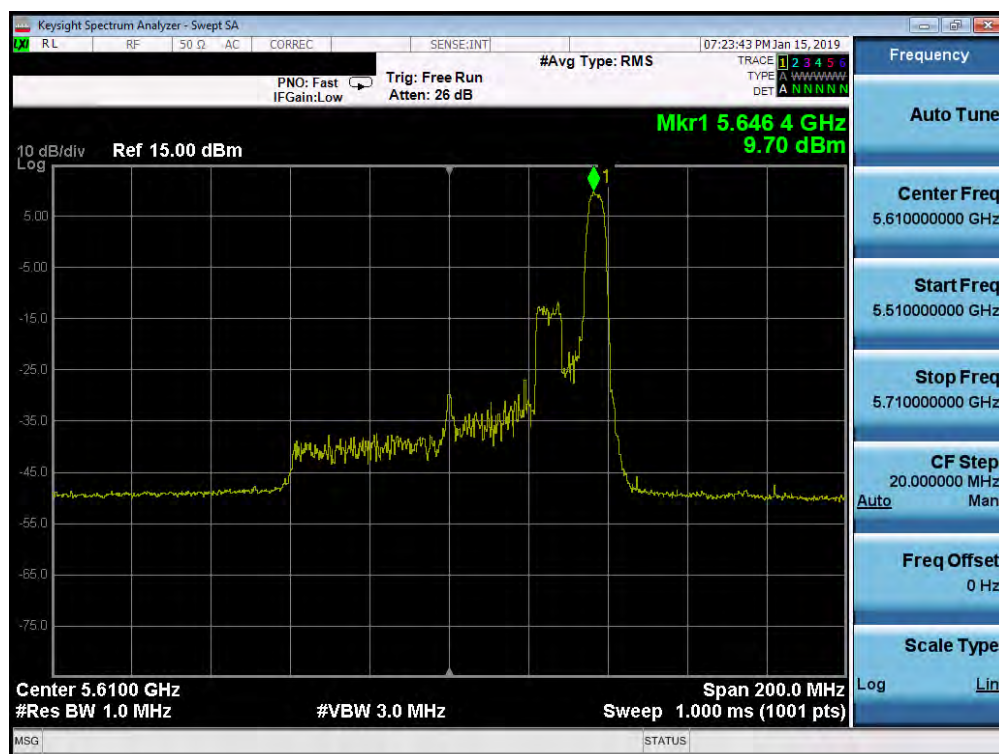


Plot 7-282. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 207 of 514	

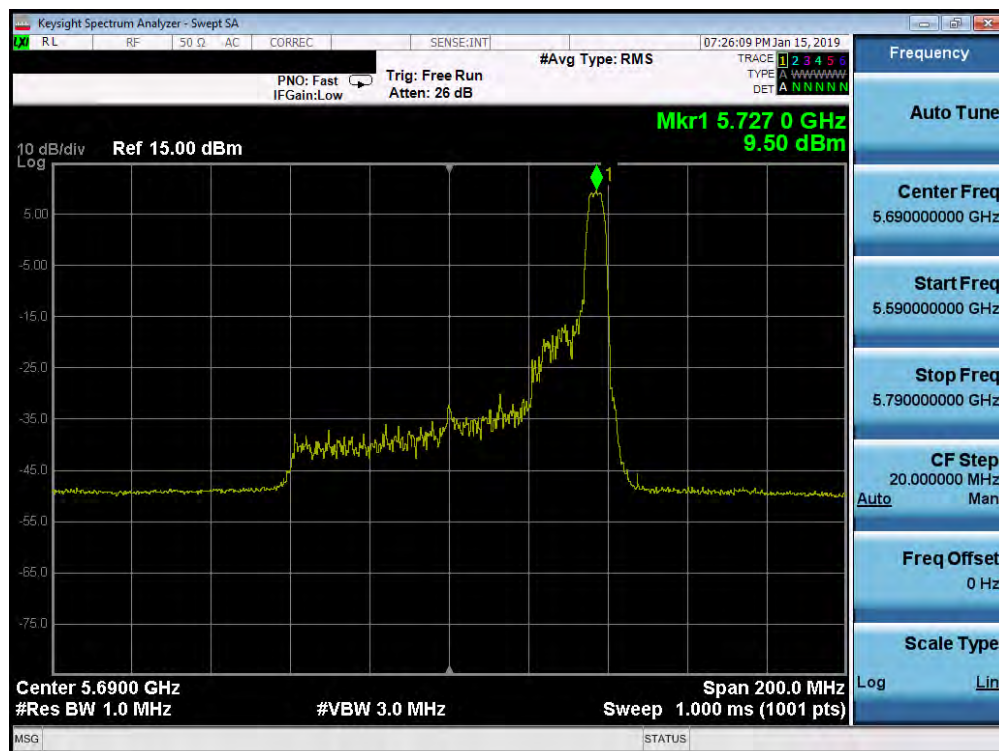


Plot 7-283. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 106)



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

FCC ID: A3LSMG973U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 208 of 514	

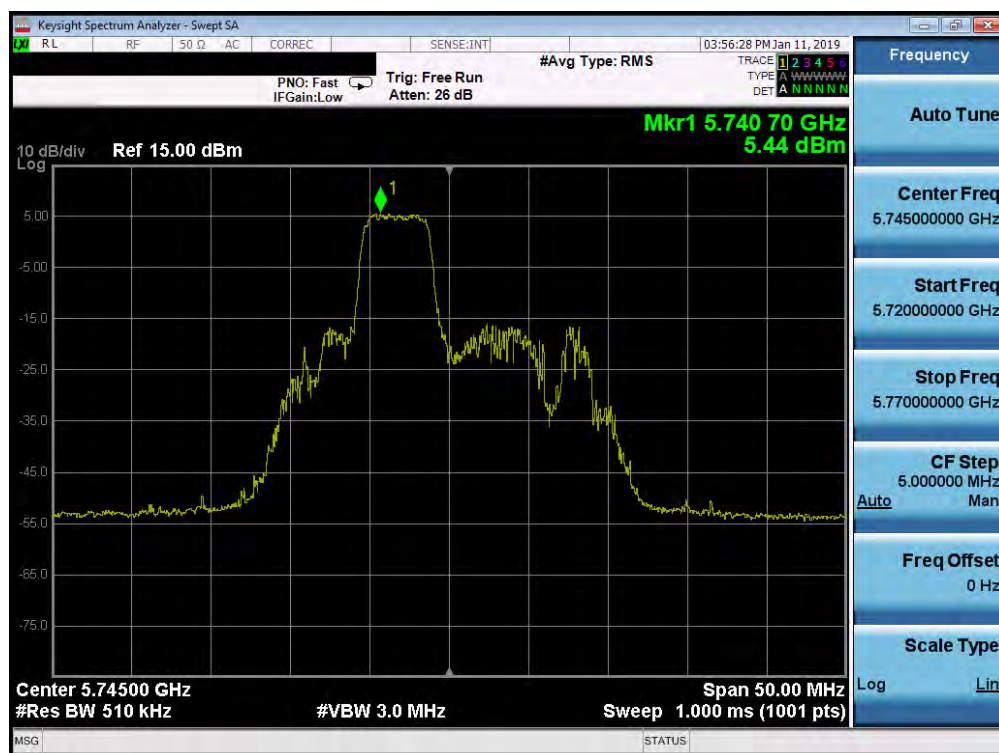


Plot 7-285. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 209 of 514

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	52T	MCS0	5.44	30.00	-24.56
	5785	157	ax (20MHz)	52T	MCS0	5.76	30.00	-24.24
	5825	165	ax (20MHz)	52T	MCS0	5.47	30.00	-24.53
	5755	151	ax (40MHz)	52T	MCS0	5.18	30.00	-24.82
	5795	159	ax (40MHz)	52T	MCS0	5.03	30.00	-24.97
	5775	155	ax (80MHz)	52T	MCS0	10.24	30.00	-19.76

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

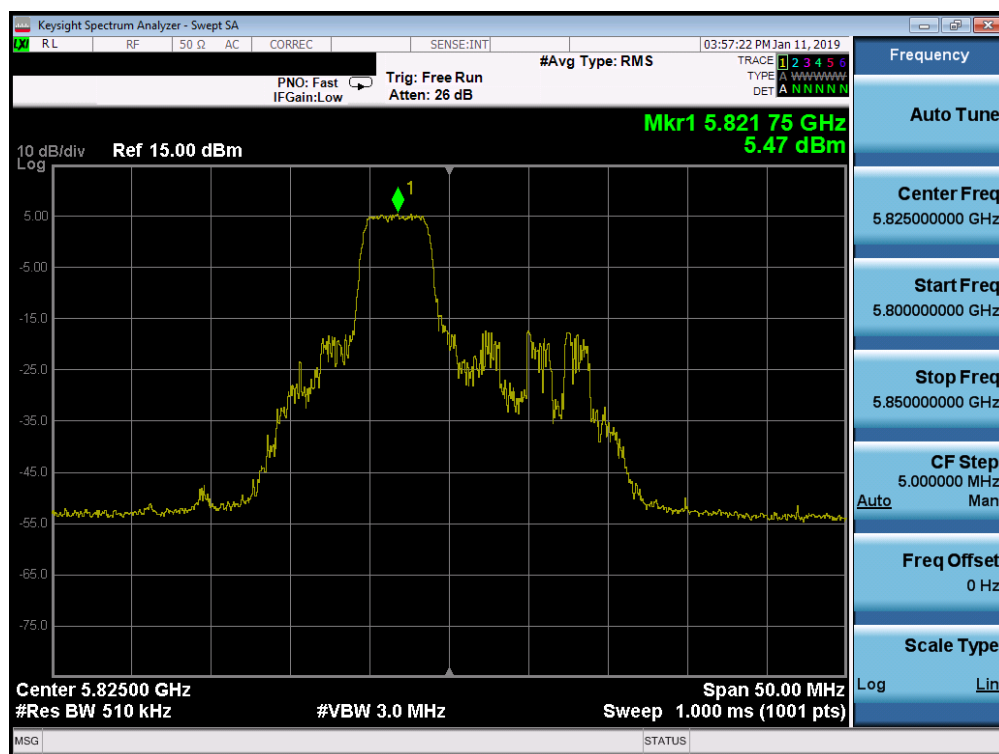


Plot 7-286. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 210 of 514

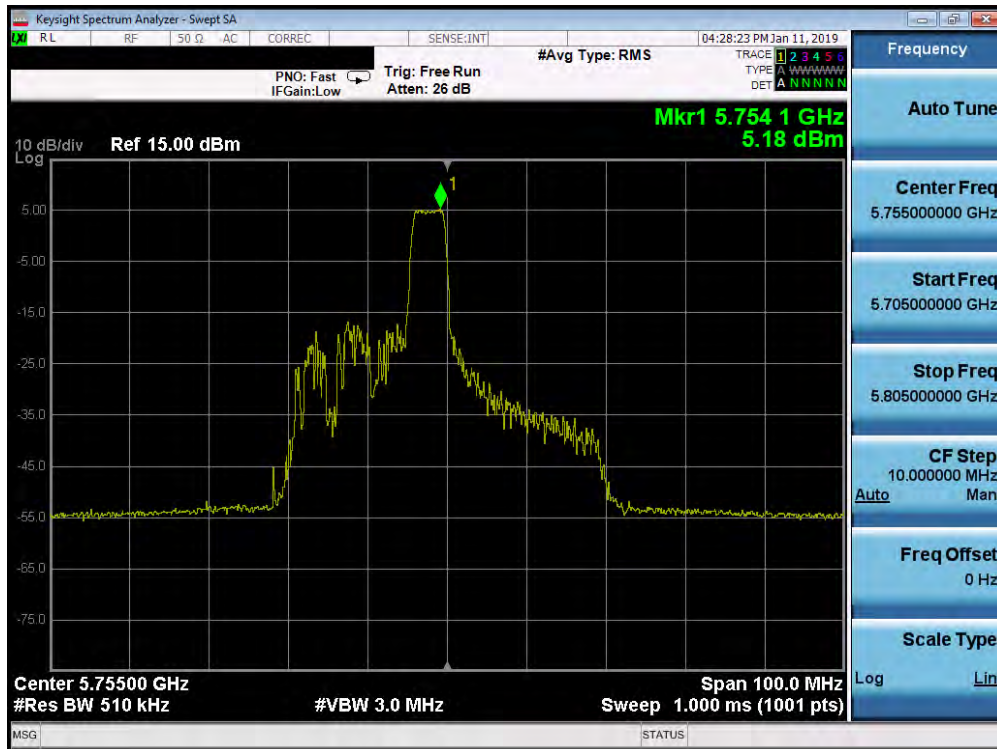


Plot 7-287. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 157)

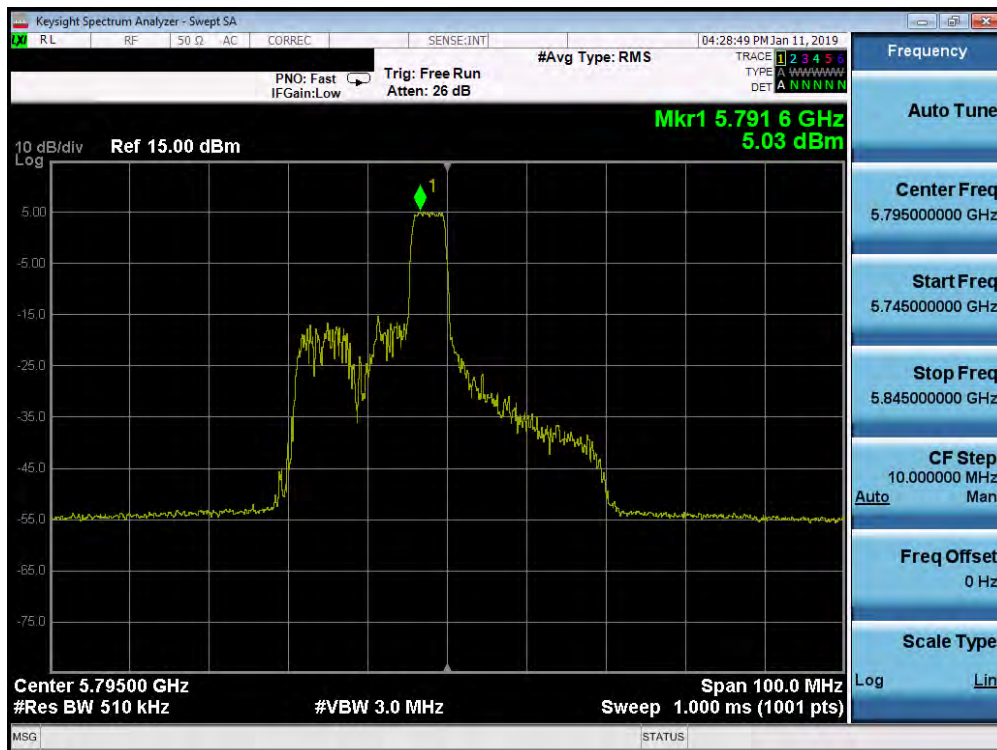


Plot 7-288. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 211 of 514

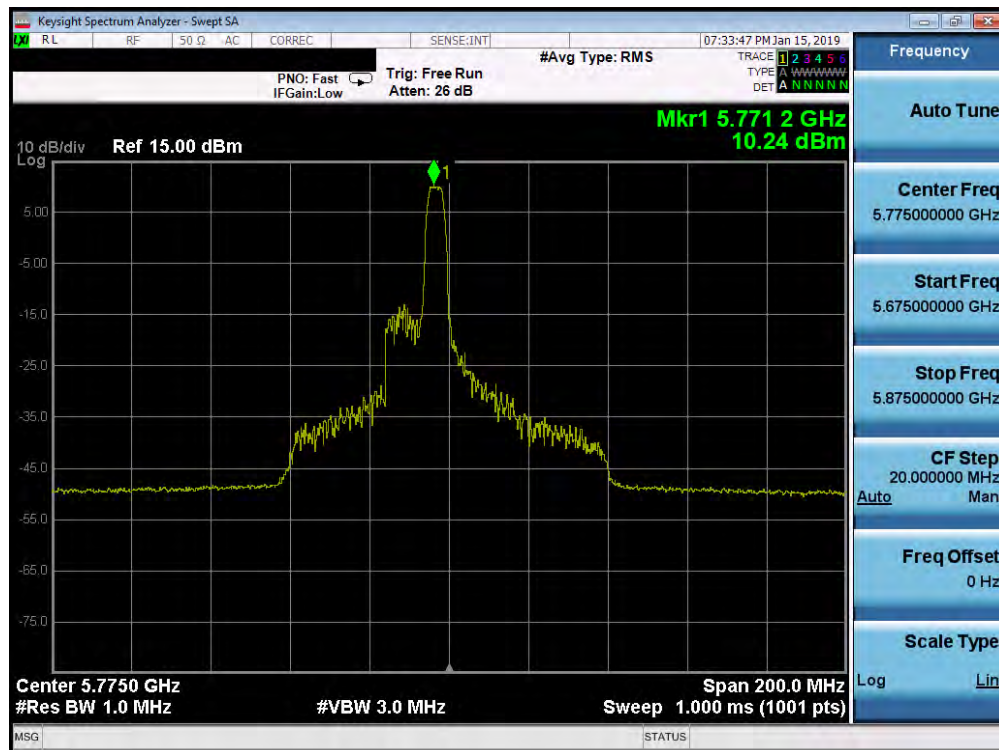


Plot 7-289. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 151)



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

FCC ID: A3LSMG973U	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 212 of 514



Plot 7-291. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 52 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-18.A3L	Test Dates: 10/23 - 1/18/2018	EUT Type: Portable Handset		Page 213 of 514