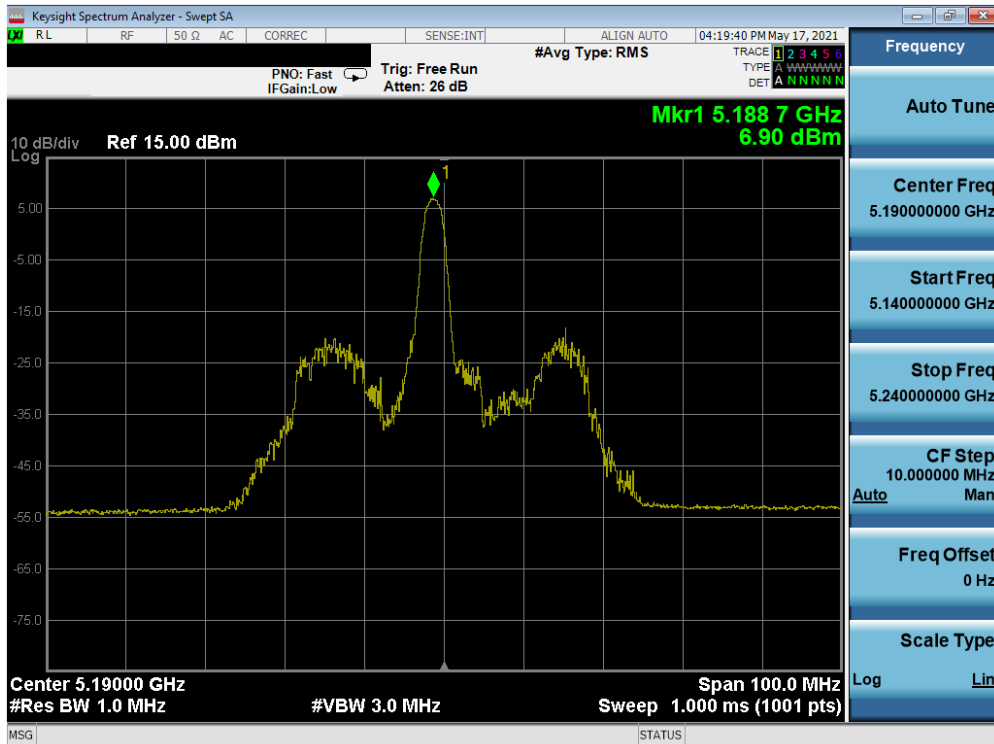


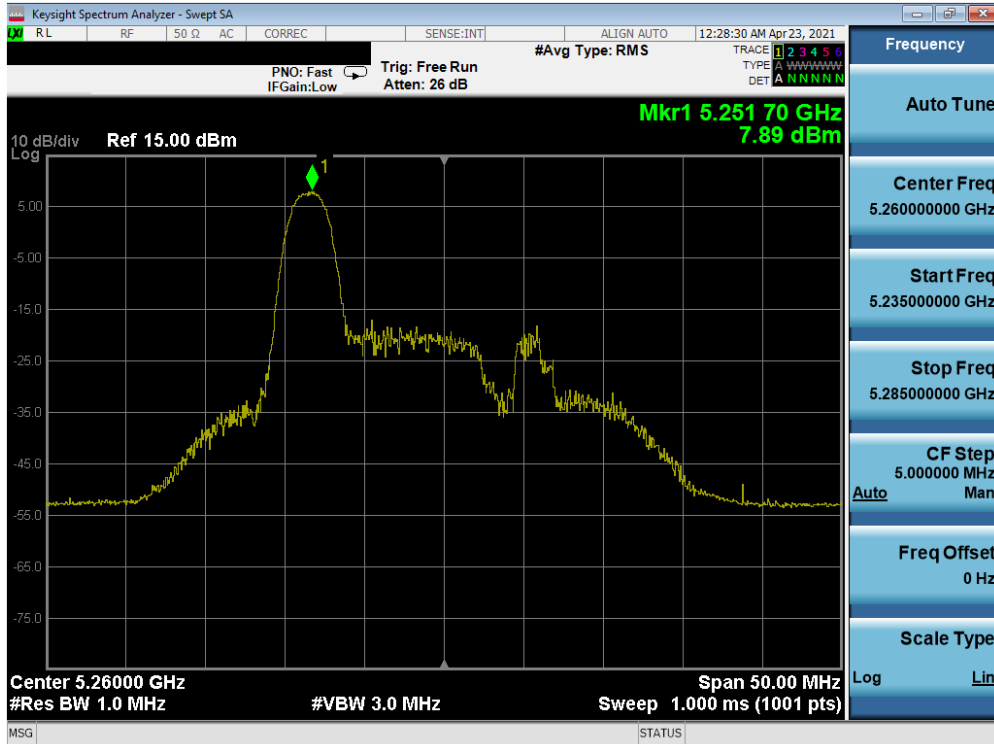
Plot 7-111. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



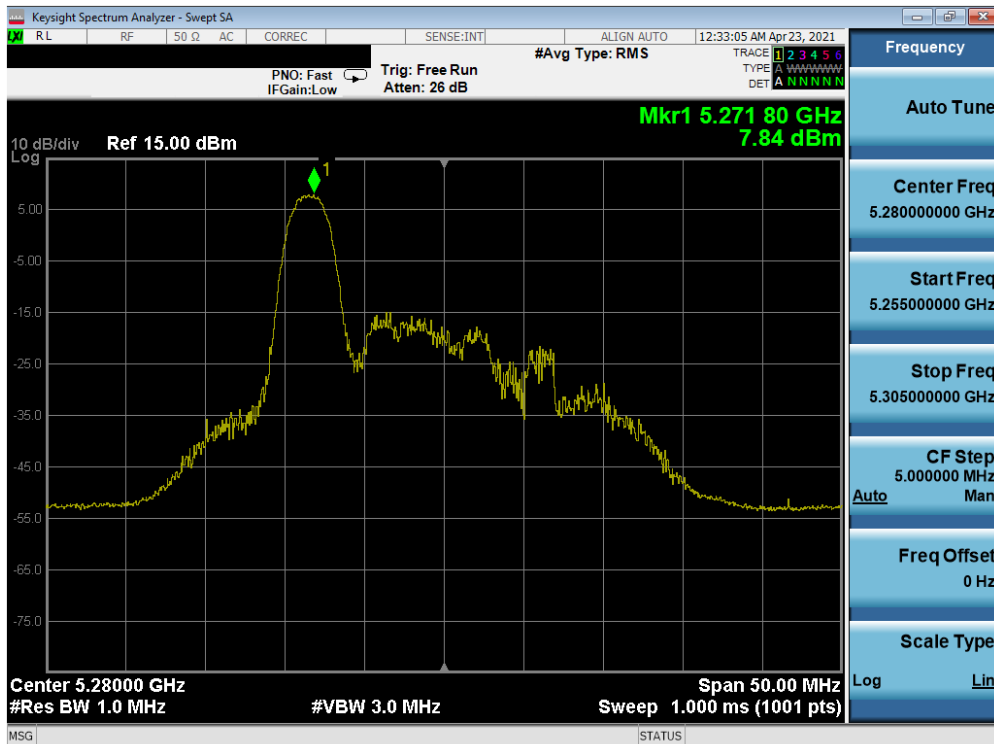
Plot 7-112. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 95 of 216



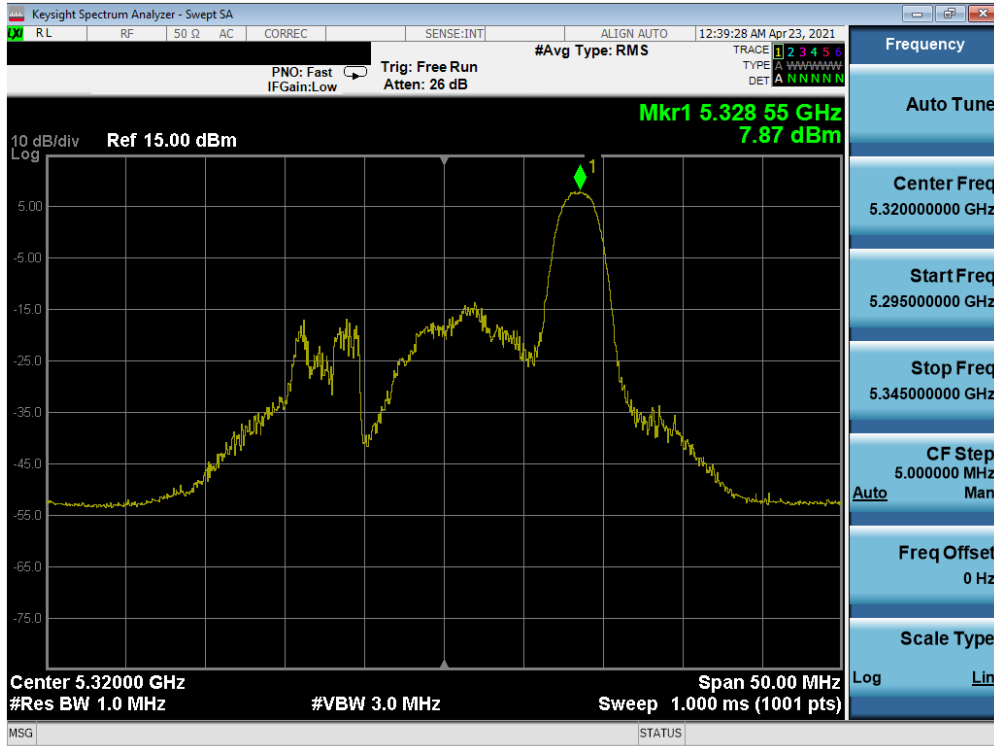


Plot 7-115. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

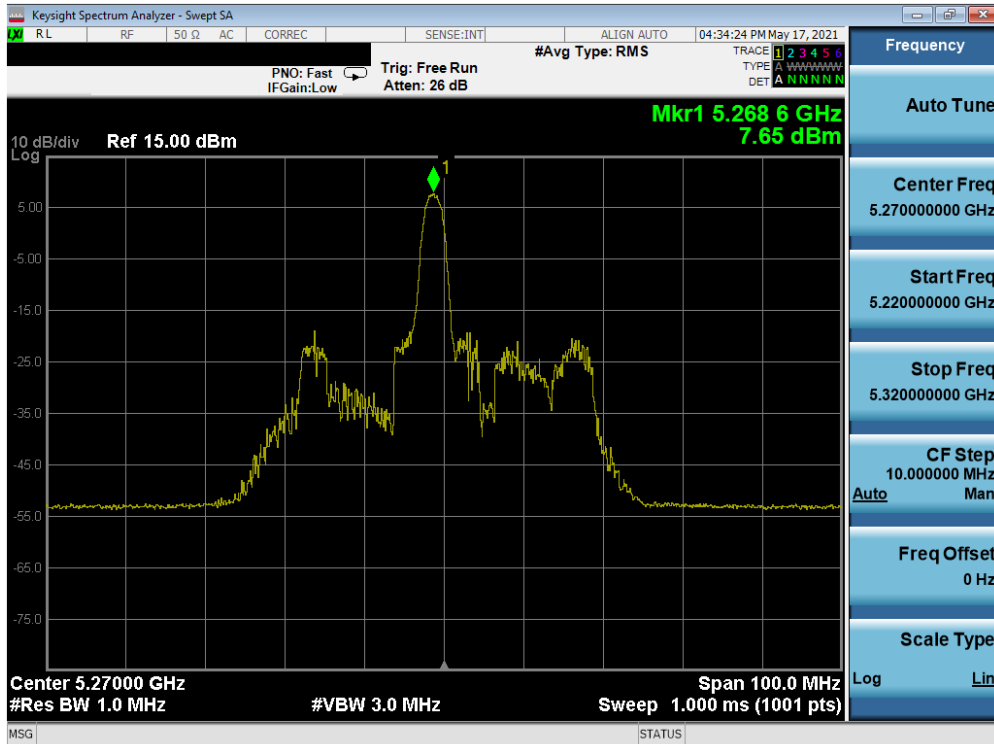


Plot 7-116. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 97 of 216

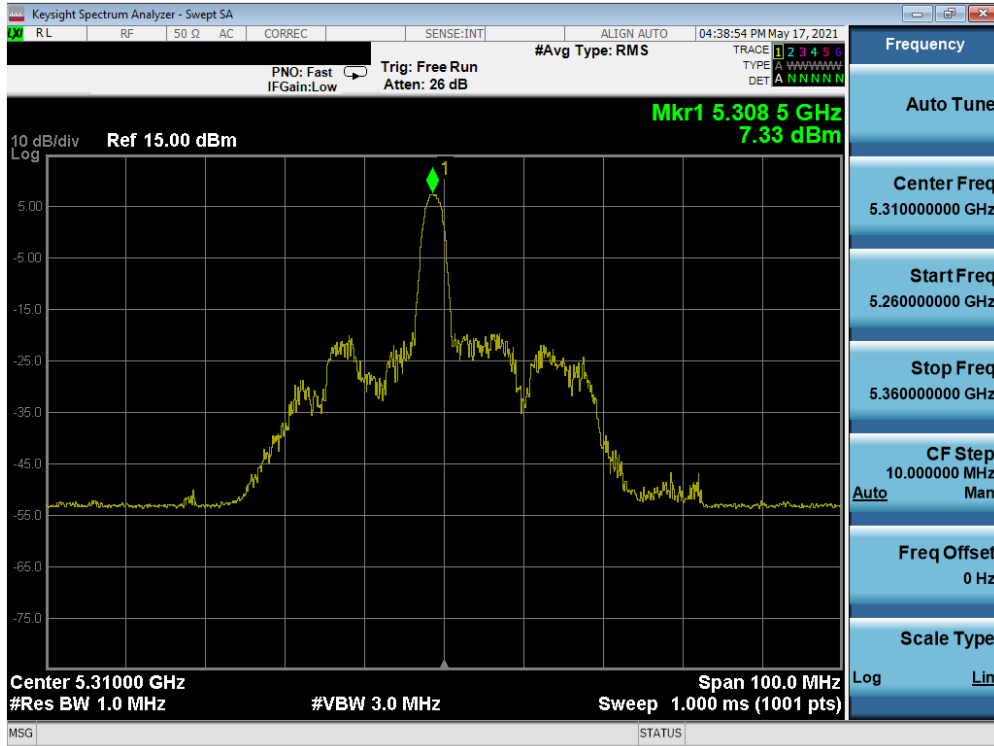


Plot 7-117. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

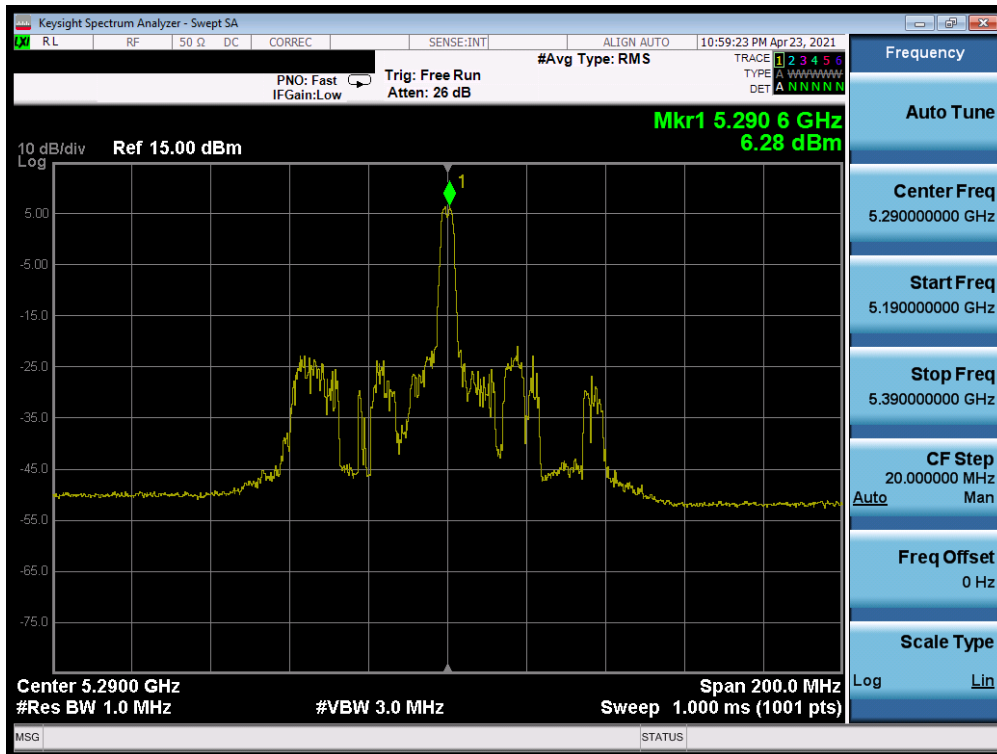


Plot 7-118. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 98 of 216

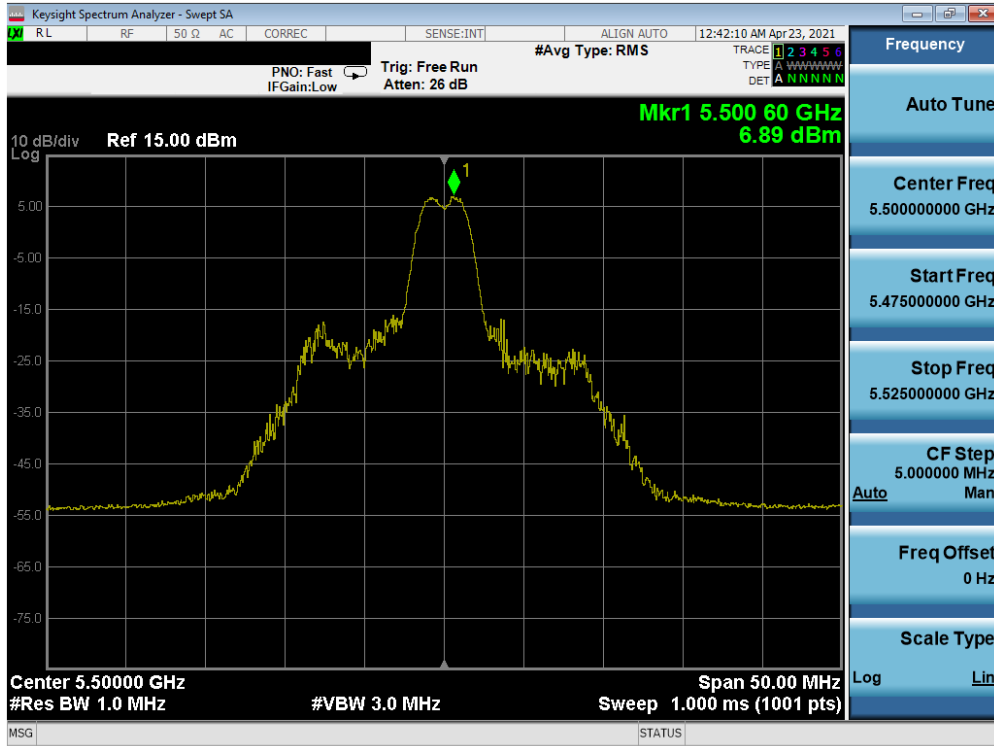


Plot 7-119. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

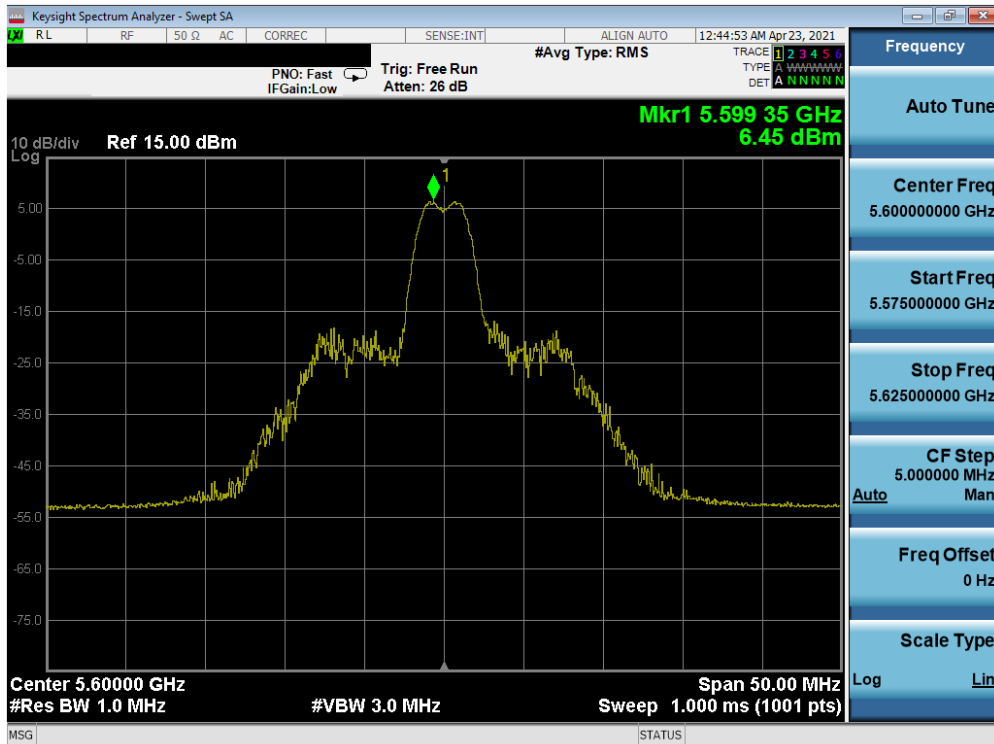


Plot 7-120. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U1	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 99 of 216

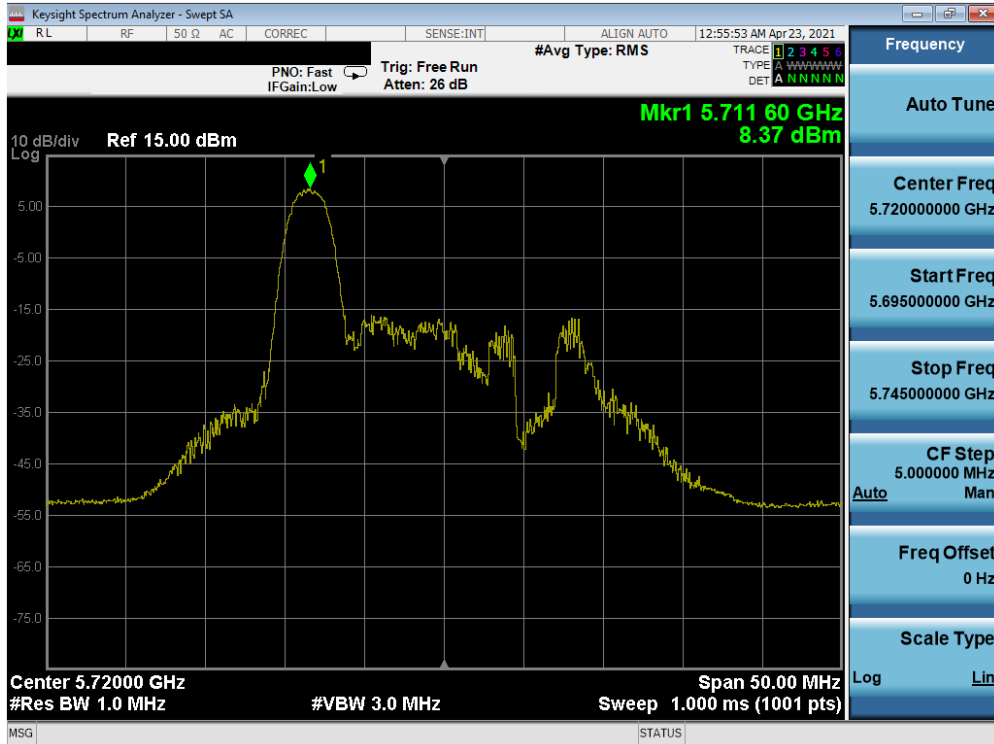


Plot 7-121. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

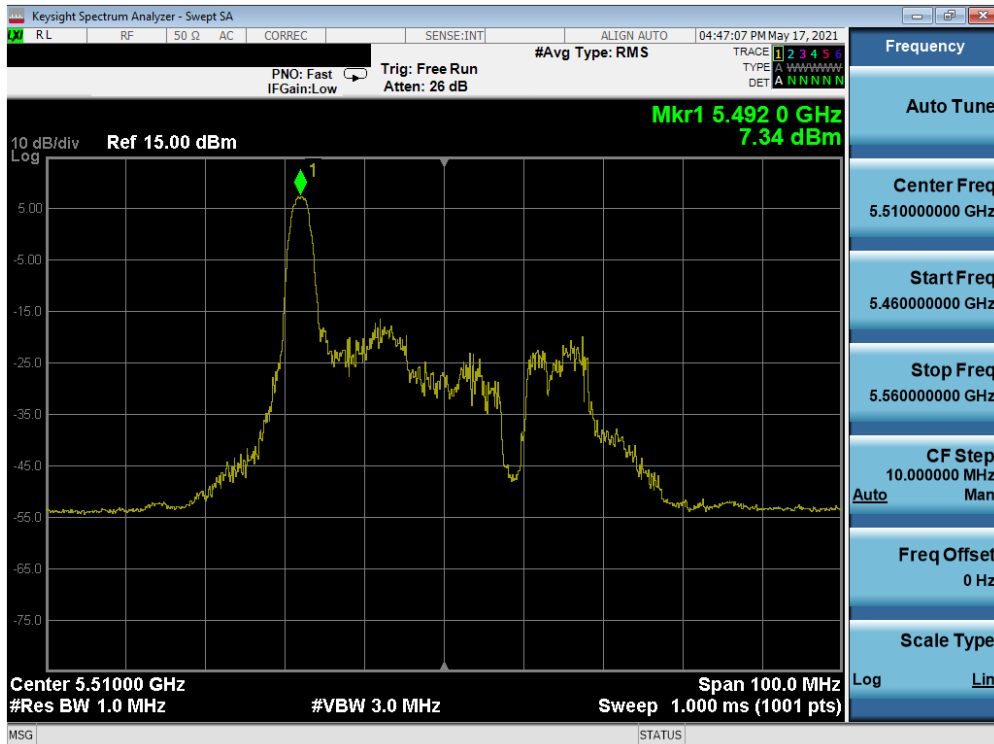


Plot 7-122. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 100 of 216



Plot 7-123. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

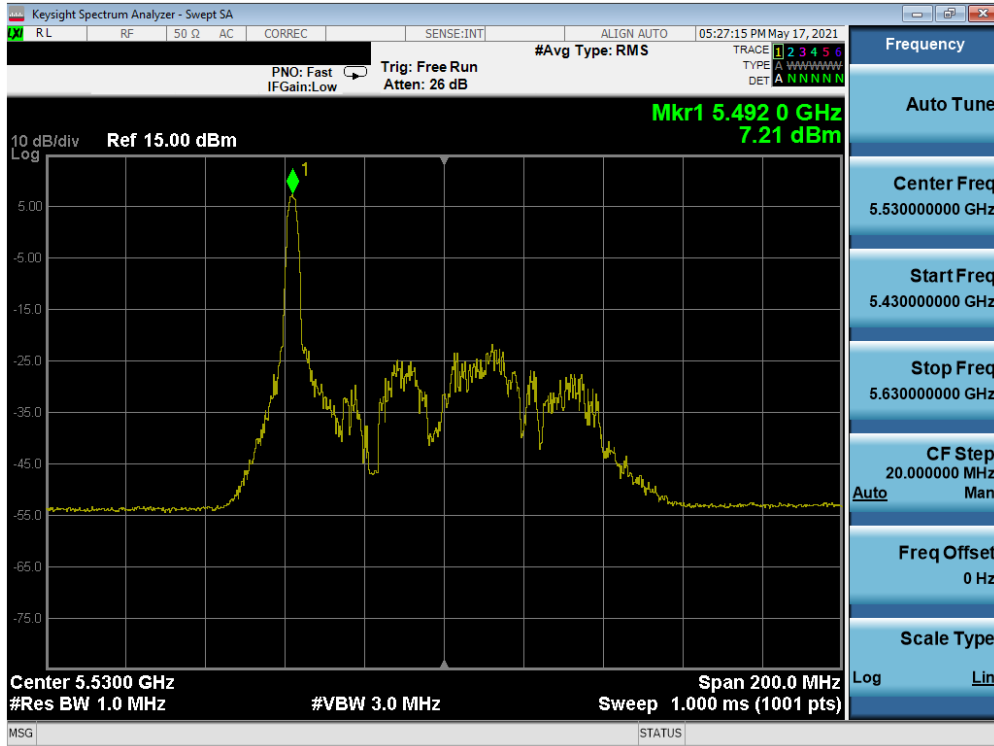


Plot 7-124. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 101 of 216





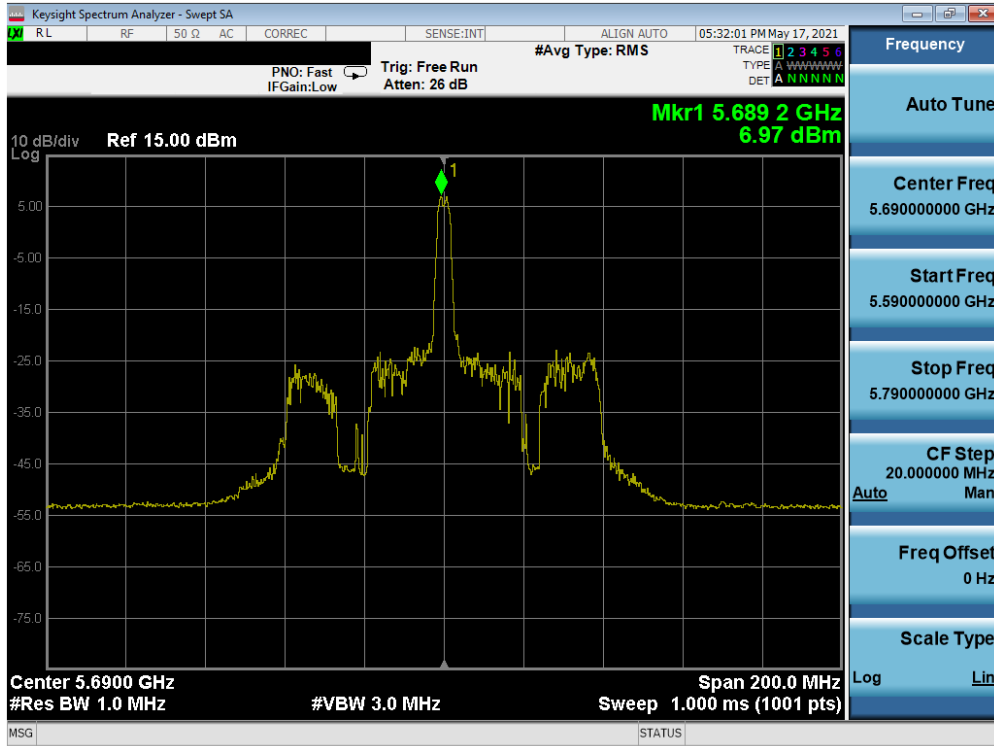


Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

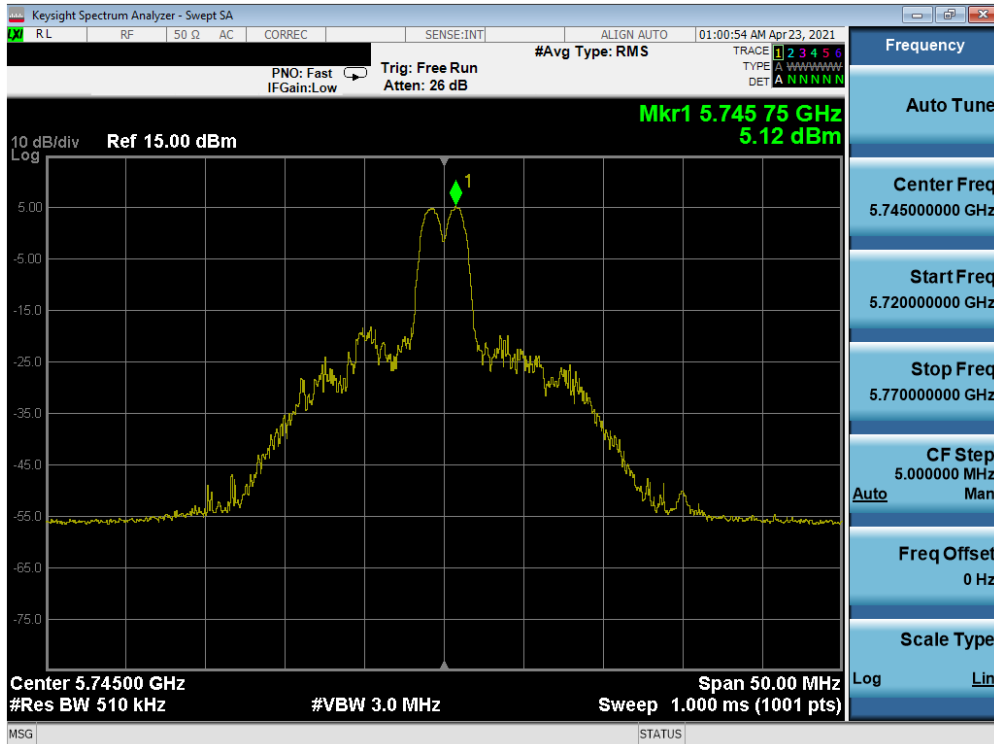


Plot 7-128. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 103 of 216

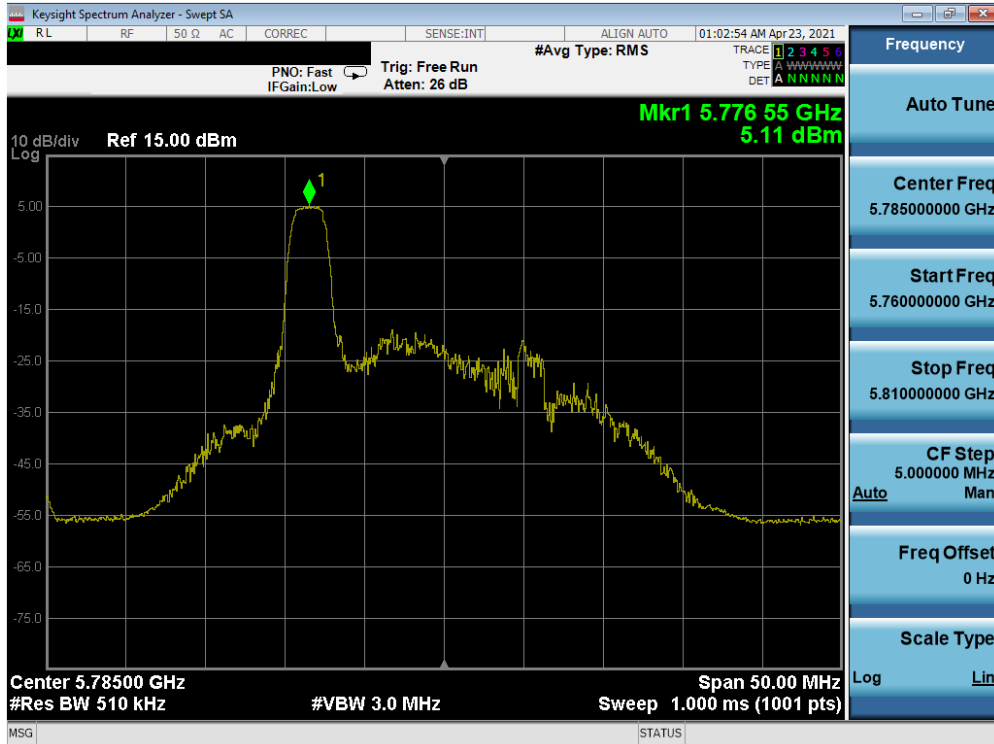


Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

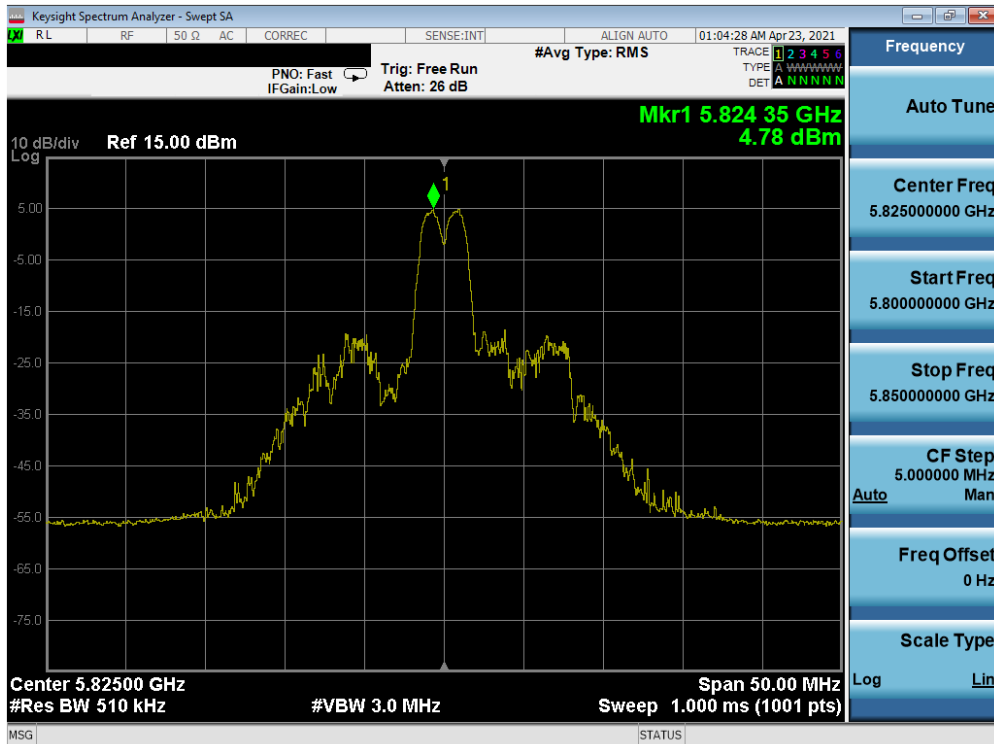


Plot 7-130. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 104 of 216

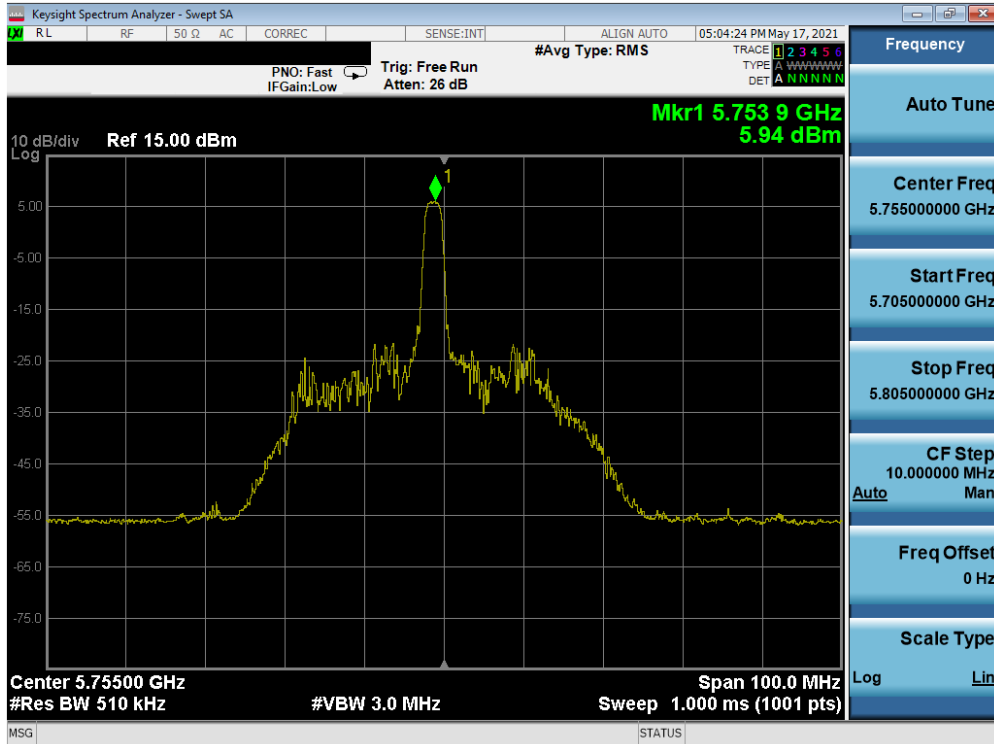


Plot 7-131. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

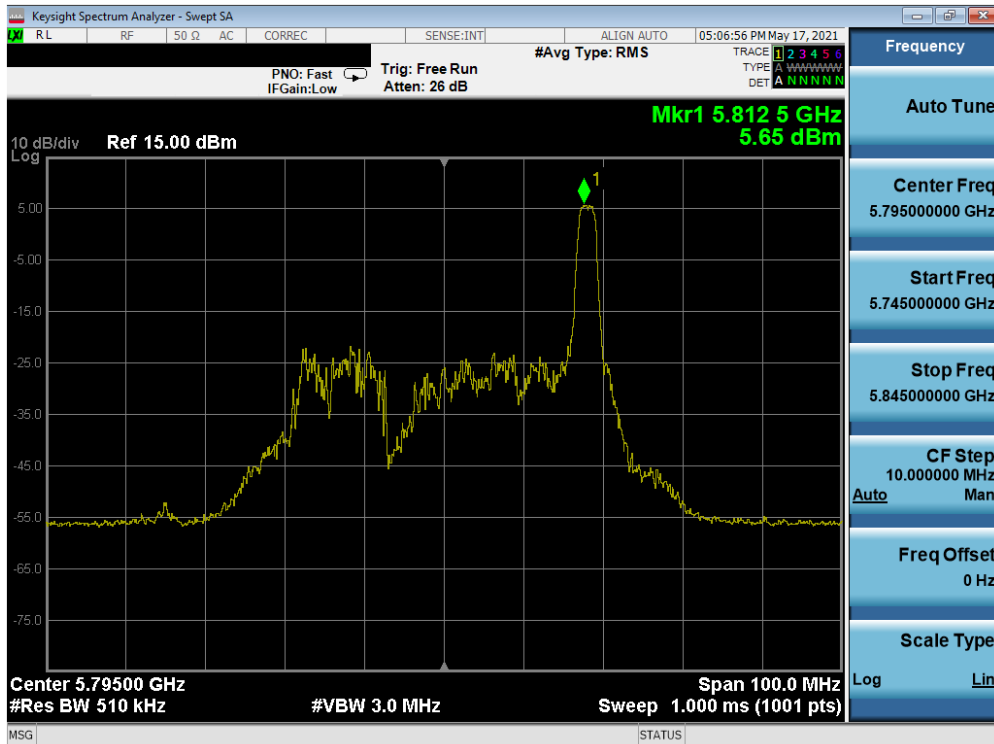


Plot 7-132. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 105 of 216

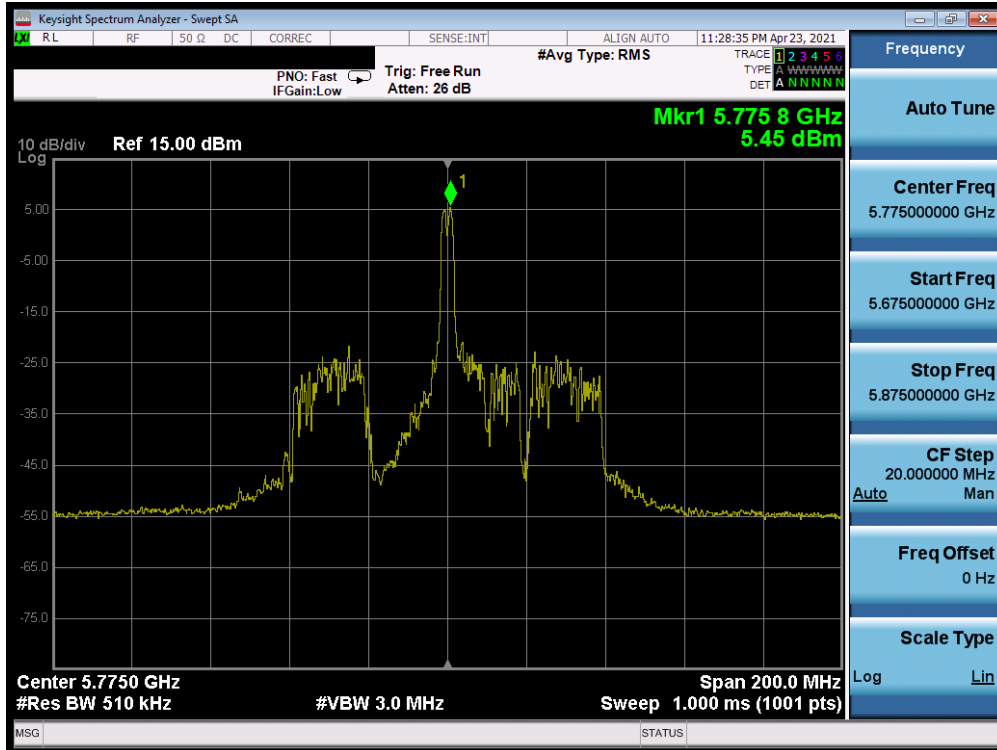


Plot 7-133. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



Plot 7-134. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 106 of 216



Plot 7-135. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 107 of 216

## SISO ANT 1 Power Spectral Density Measurements (Full 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	2.91	11.0	-8.09
	5200	40	ax (20MHz)	242T	MCS0	2.96	11.0	-8.04
	5240	48	ax (20MHz)	242T	MCS0	3.30	11.0	-7.70
	5190	38	ax (40MHz)	484T	MCS0	0.04	11.0	-10.96
	5230	46	ax (40MHz)	484T	MCS0	-0.15	11.0	-11.15
	5210	42	ax (80MHz)	996T	MCS0	-3.36	11.0	-14.36
Band 2A	5260	52	ax (20MHz)	242T	MCS0	2.81	11.0	-8.19
	5280	56	ax (20MHz)	242T	MCS0	2.88	11.0	-8.12
	5320	64	ax (20MHz)	242T	MCS0	2.66	11.0	-8.34
	5270	54	ax (40MHz)	484T	MCS0	1.16	11.0	-9.84
	5310	62	ax (40MHz)	484T	MCS0	1.13	11.0	-9.87
	5290	58	ax (80MHz)	996T	MCS0	-2.31	11.0	-13.31
Band 2C	5500	100	ax (20MHz)	242T	MCS0	2.80	11.0	-8.20
	5600	120	ax (20MHz)	242T	MCS0	2.00	11.0	-9.00
	5720	144	ax (20MHz)	242T	MCS0	2.99	11.0	-8.01
	5510	102	ax (40MHz)	484T	MCS0	0.34	11.0	-10.66
	5590	118	ax (40MHz)	484T	MCS0	0.98	11.0	-10.02
	5710	142	ax (40MHz)	484T	MCS0	1.40	11.0	-9.60
	5530	106	ax (80MHz)	996T	MCS0	-3.58	11.0	-14.58
	5610	122	ax (80MHz)	996T	MCS0	-3.51	11.0	-14.51
	5690	138	ax (80MHz)	996T	MCS0	-2.42	11.0	-13.42

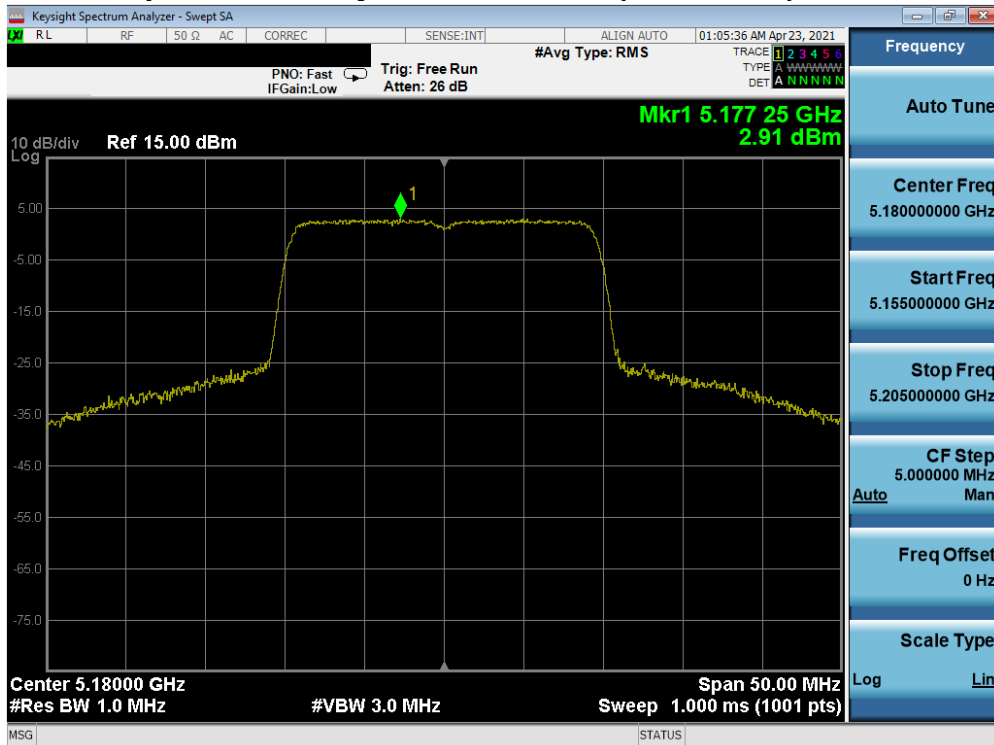
Table 7-42. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	0.35	30.00	-29.65
	5785	157	ax (20MHz)	242T	MCS0	1.00	30.00	-29.00
	5825	165	ax (20MHz)	242T	MCS0	0.49	30.00	-29.51
	5755	151	ax (40MHz)	484T	MCS0	-1.03	30.00	-31.03
	5795	159	ax (40MHz)	484T	MCS0	-0.80	30.00	-30.80
	5775	155	ax (80MHz)	996T	MCS0	-4.13	30.00	-34.13

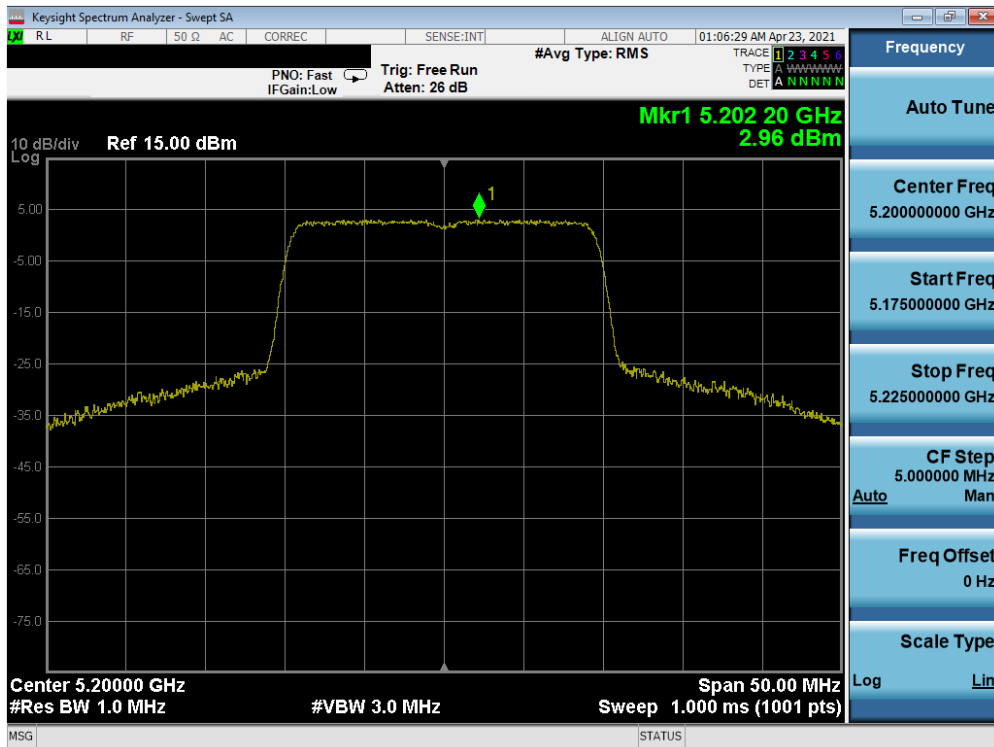
Table 7-43. Band 3 Conducted Power Spectral Density Measurements (Full Tones)

FCC ID: A3LSMF711U1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 108 of 216

### SISO ANT 1 Power Spectral Density Measurements (Full Tones)

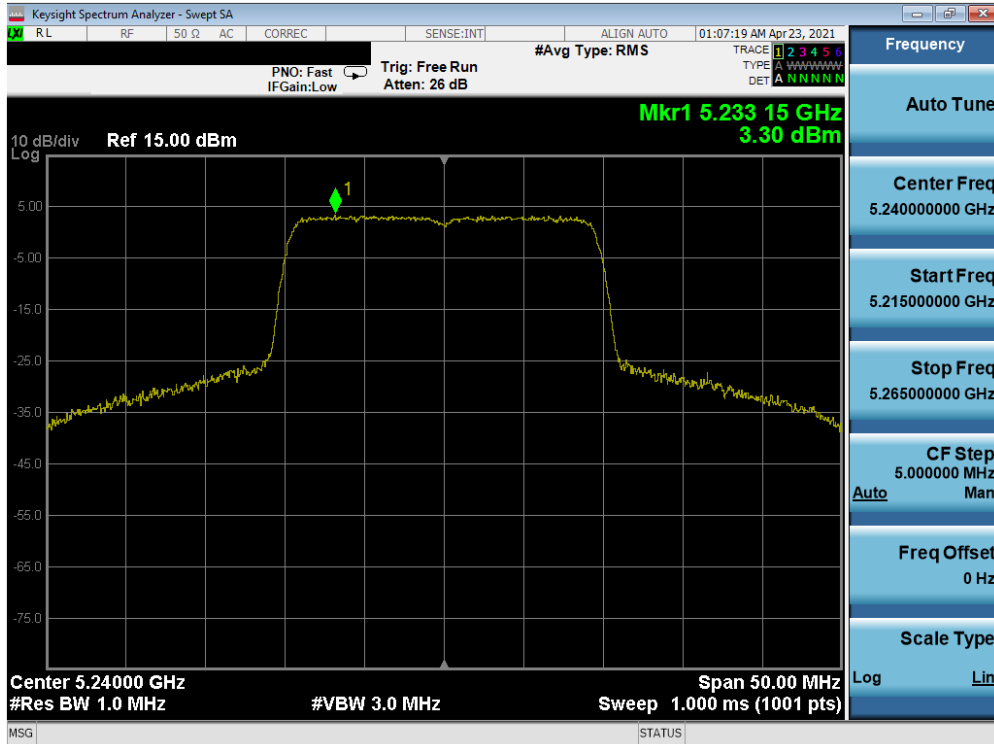


Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

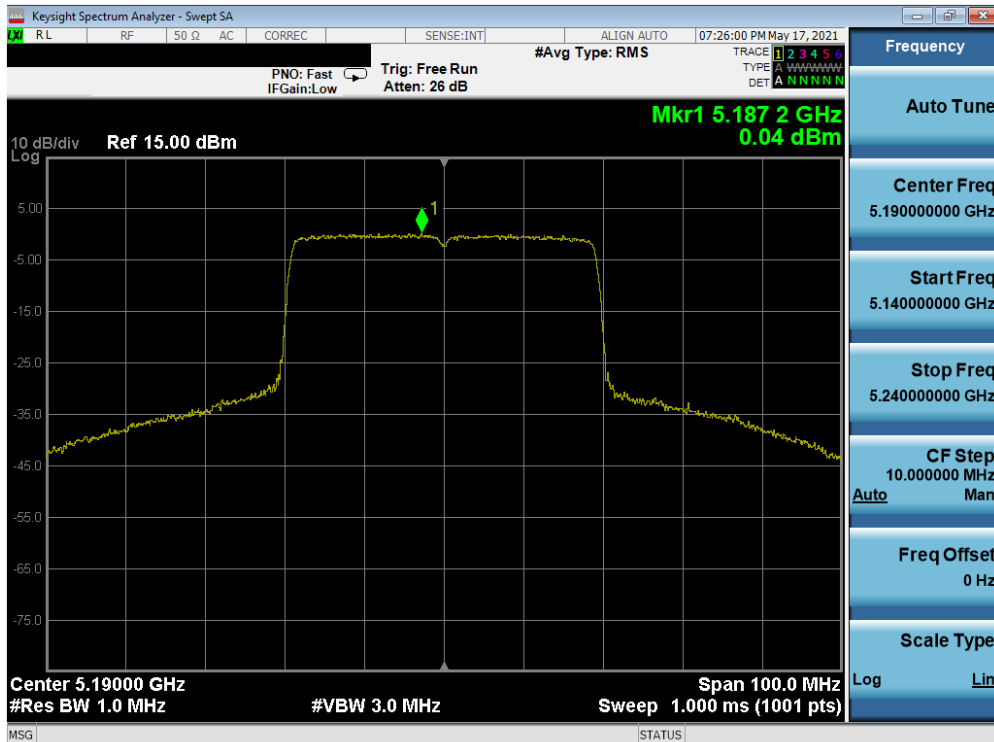


Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 109 of 216



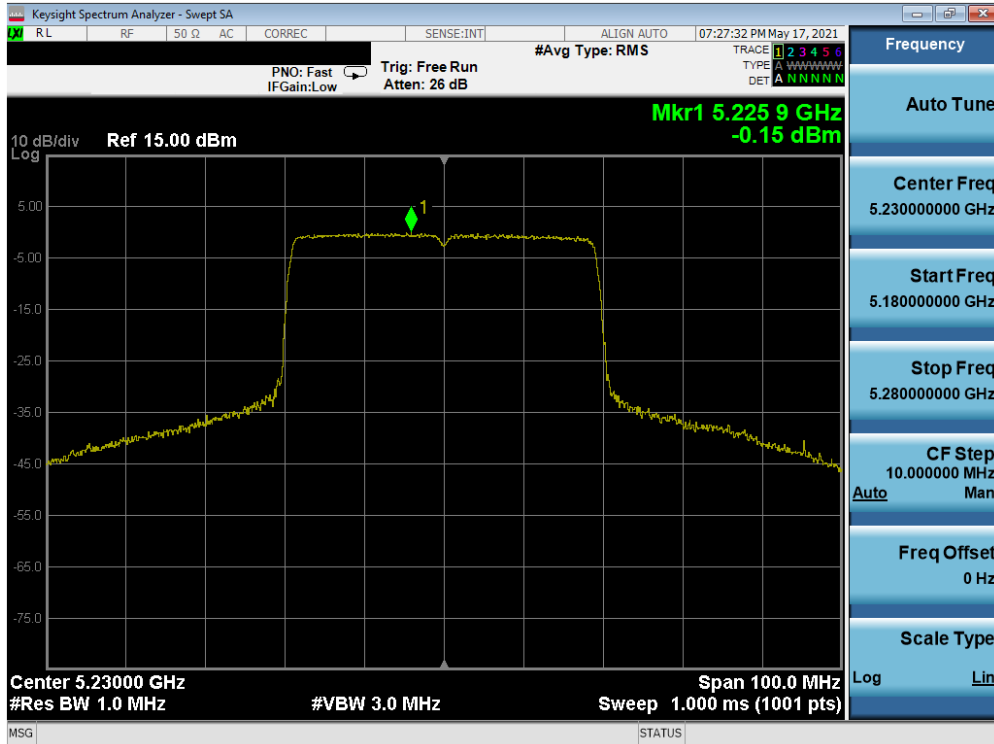
Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)



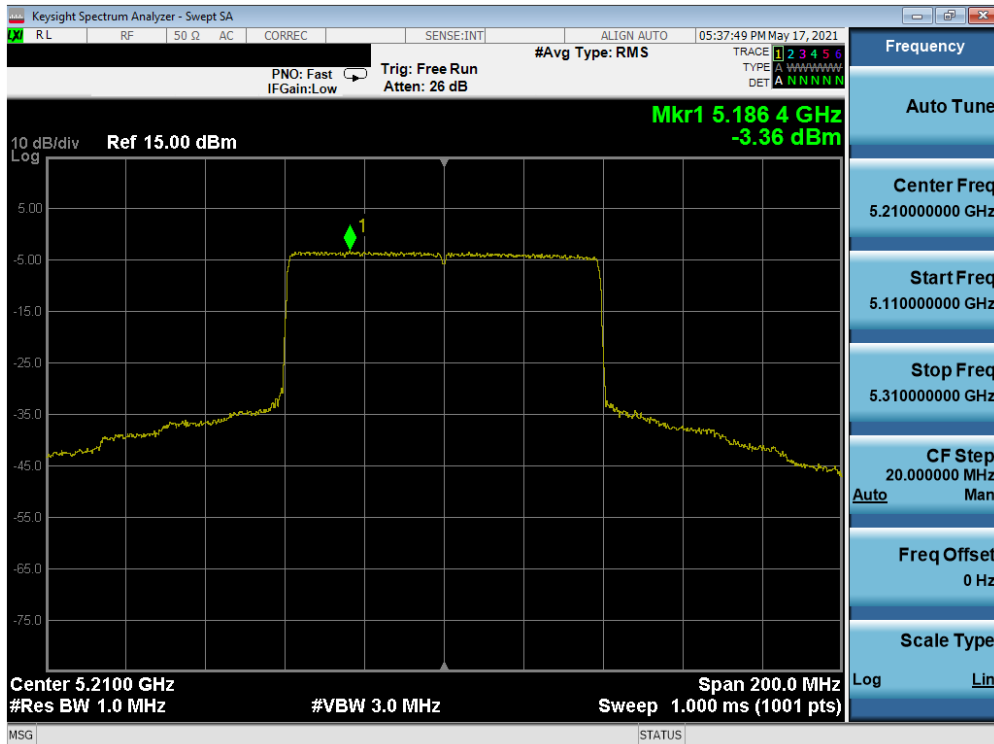
Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 110 of 216



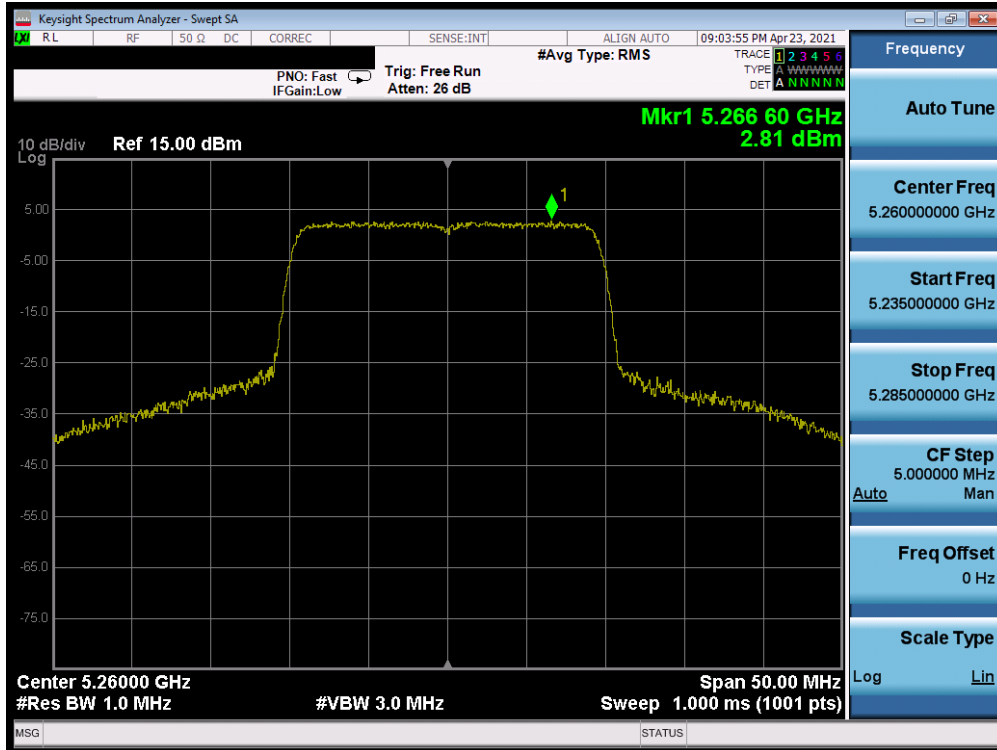


Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

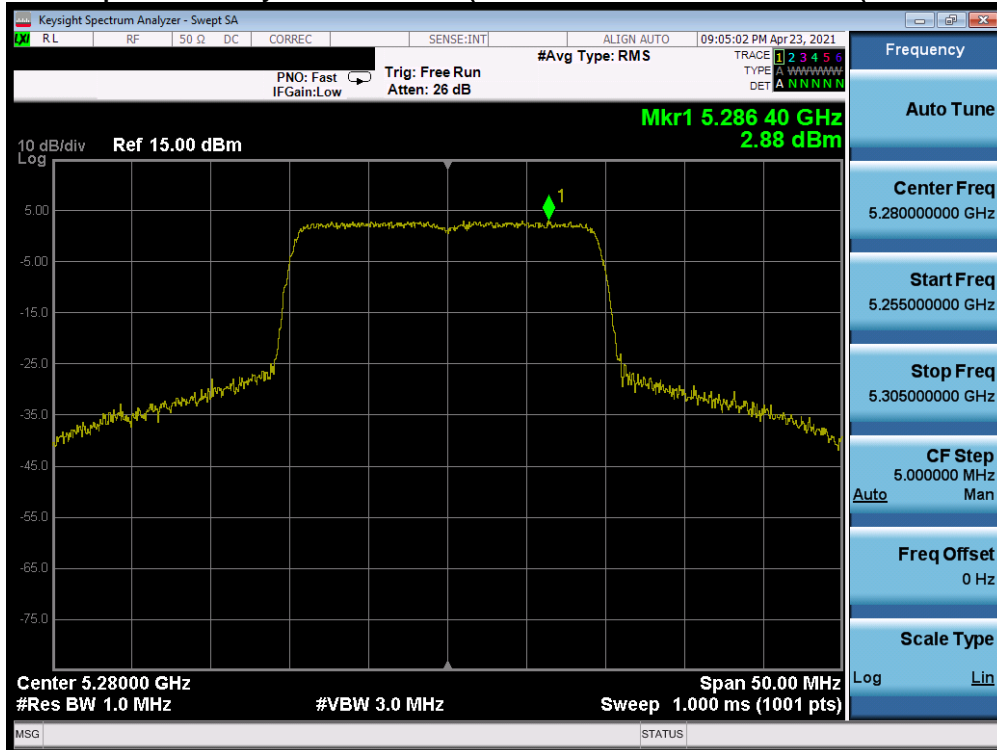


Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 111 of 216

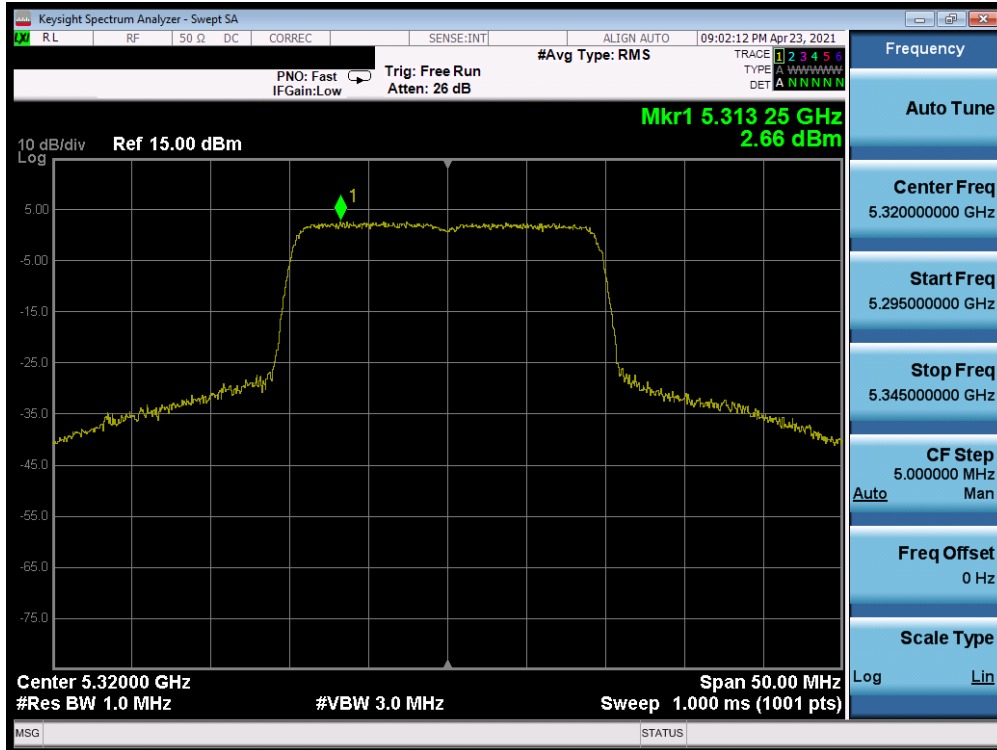


Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

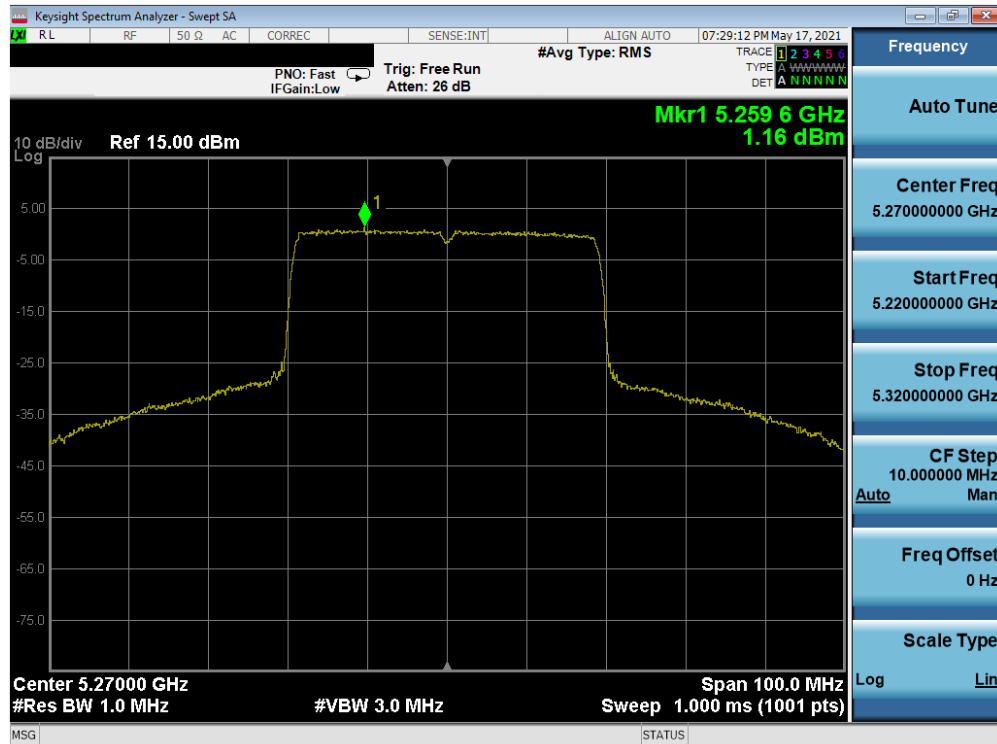


Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 112 of 216

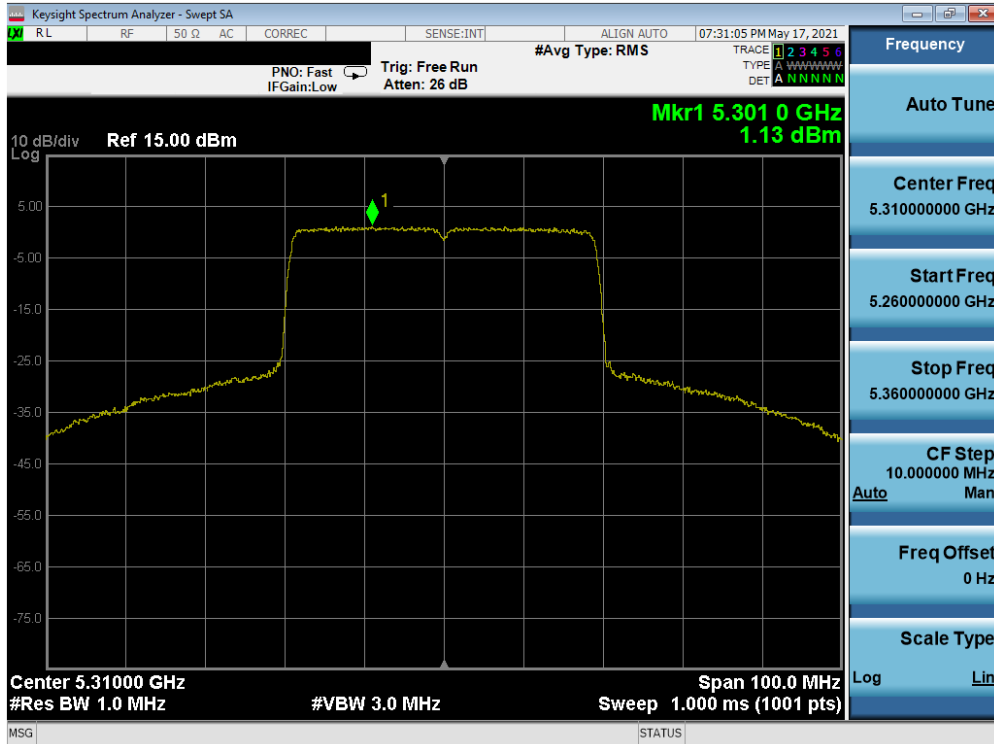


Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

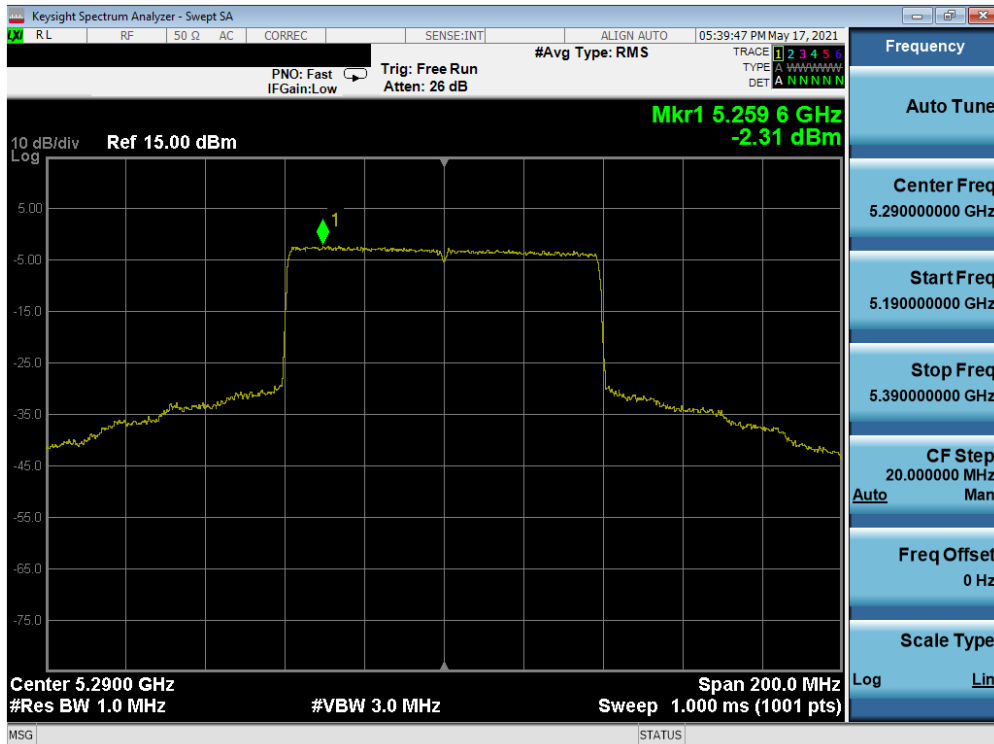


Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 113 of 216

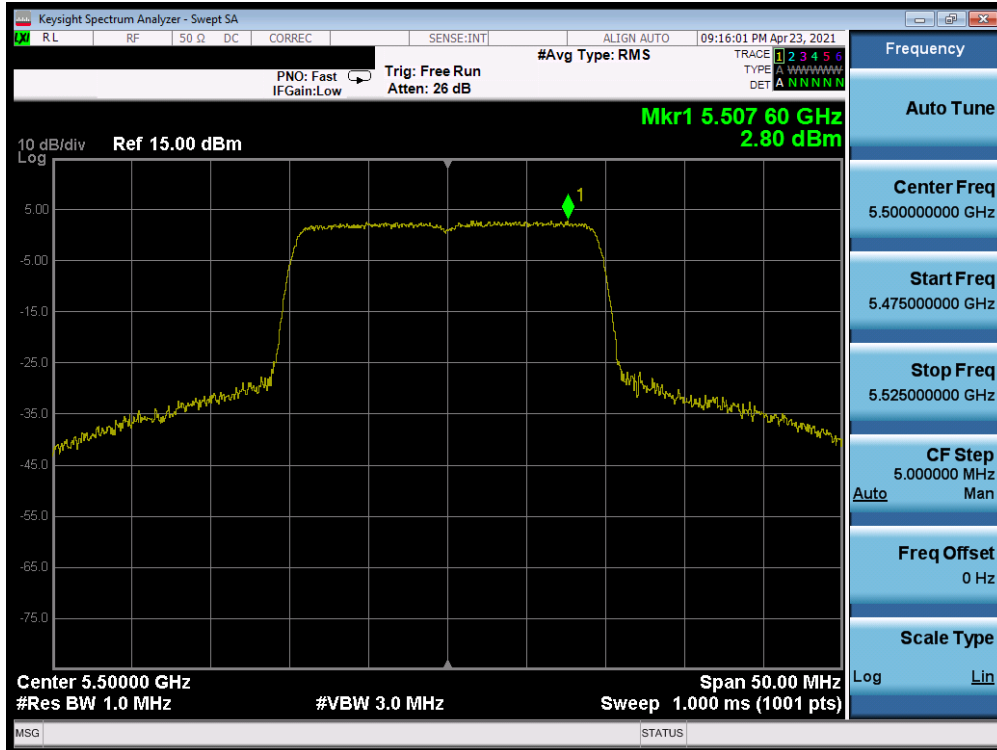


Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

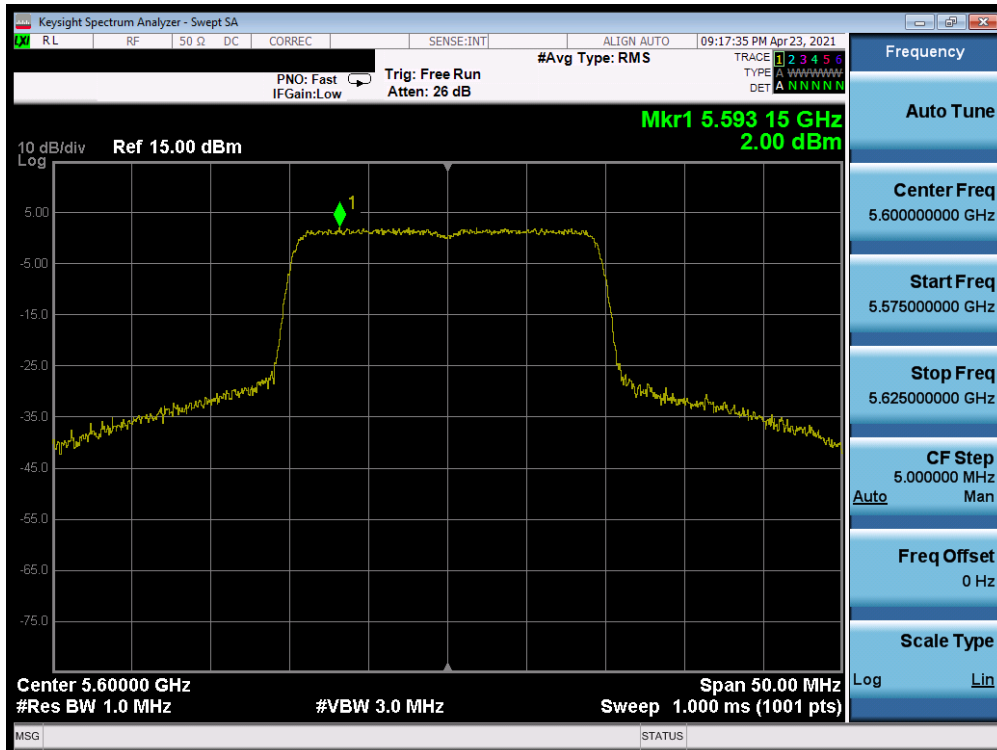


Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 114 of 216

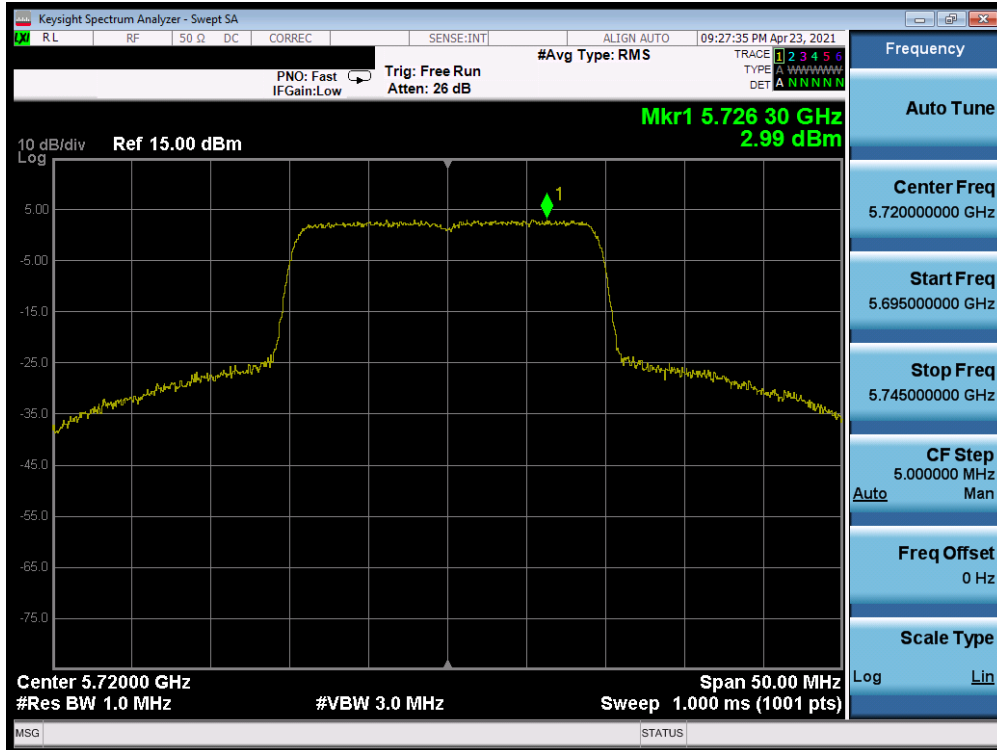


Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

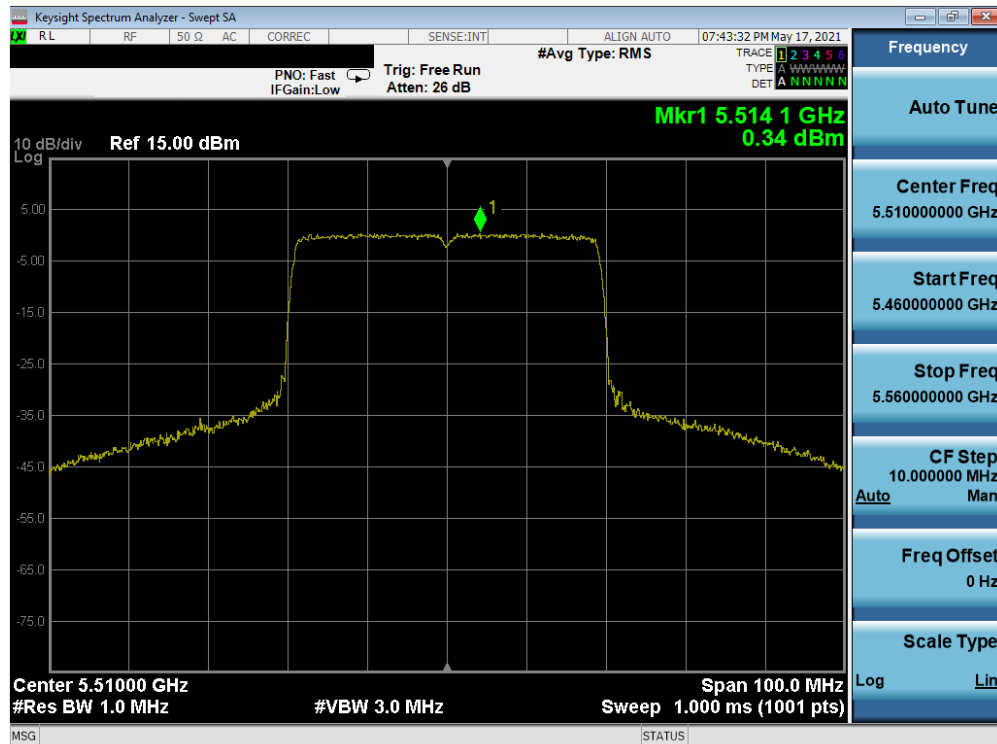


Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 115 of 216

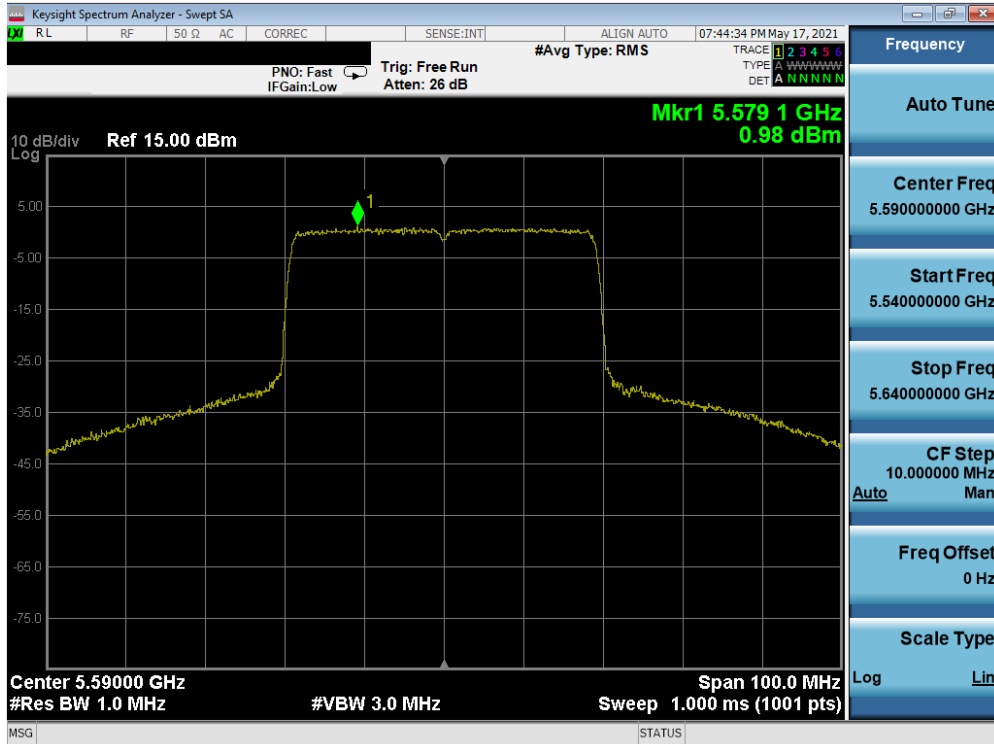


Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

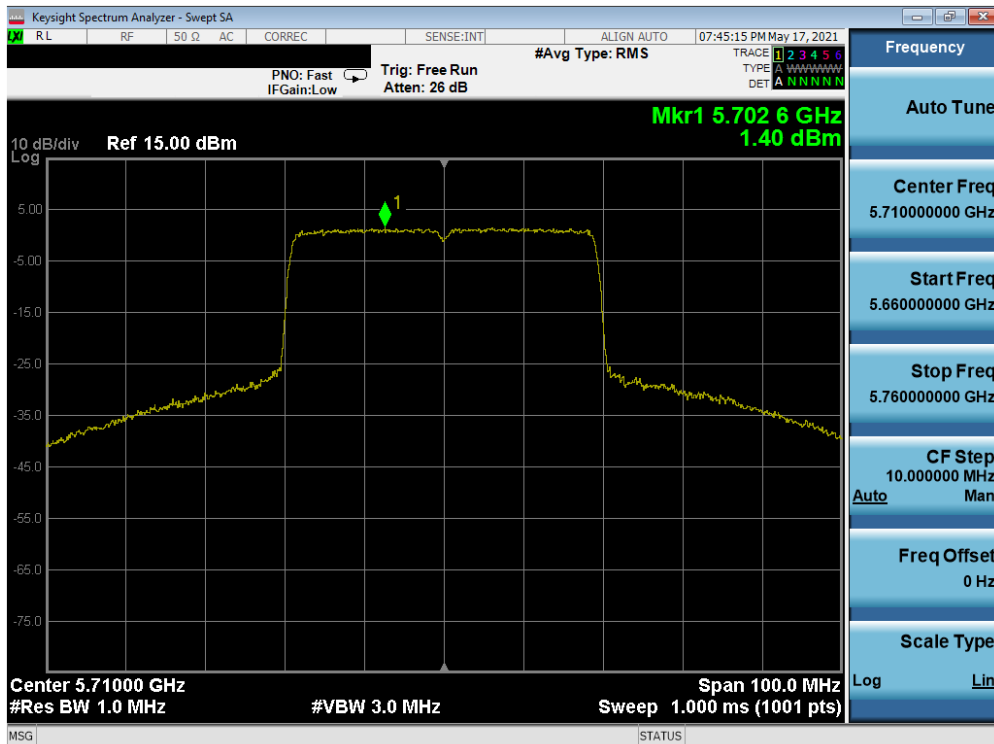


Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 116 of 216



Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

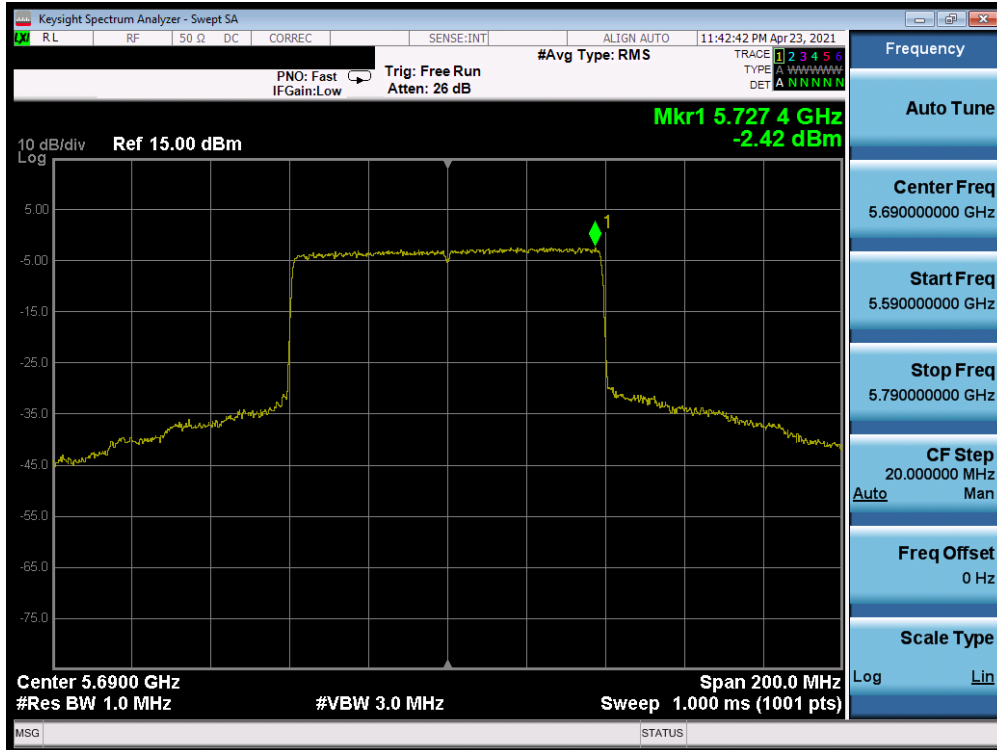


Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

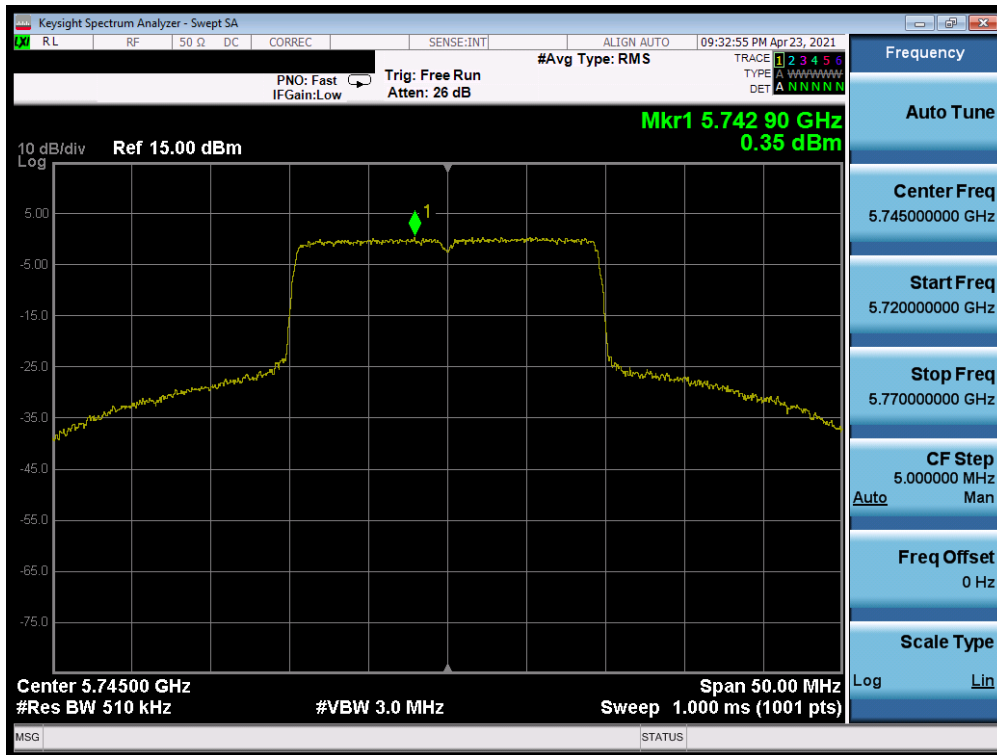
FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 117 of 216





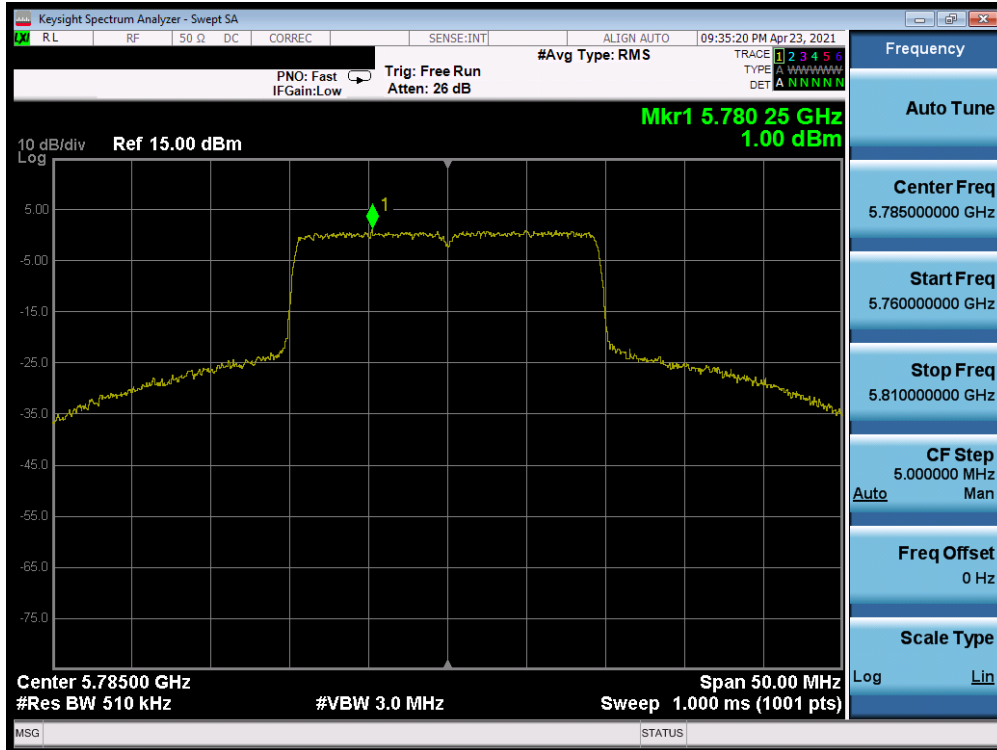


Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

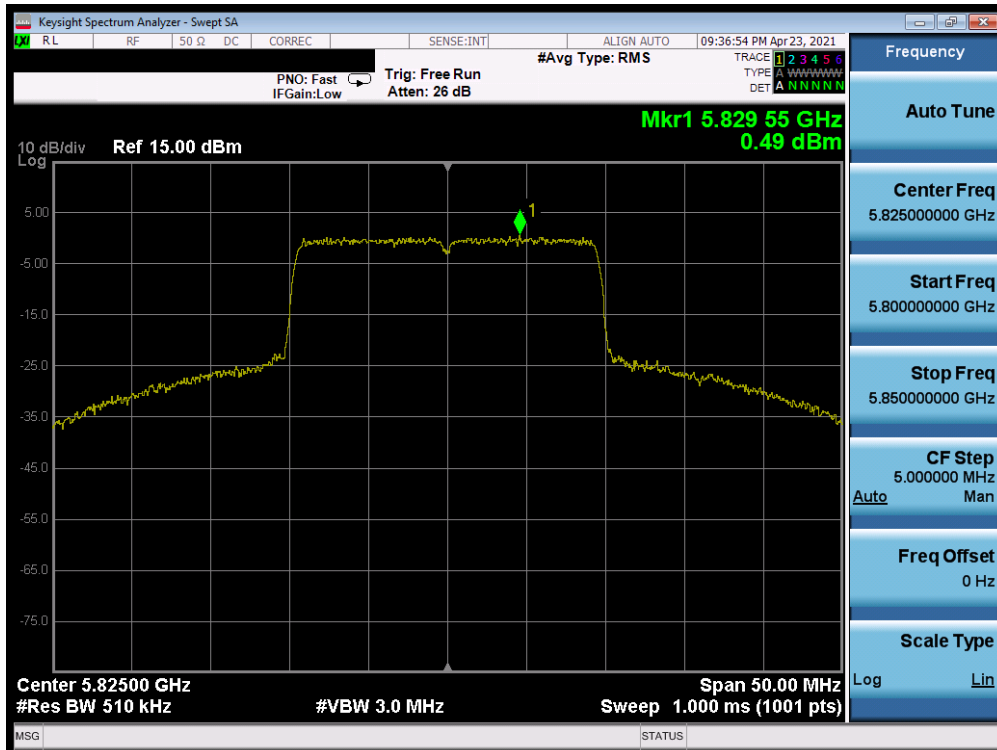


Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 119 of 216

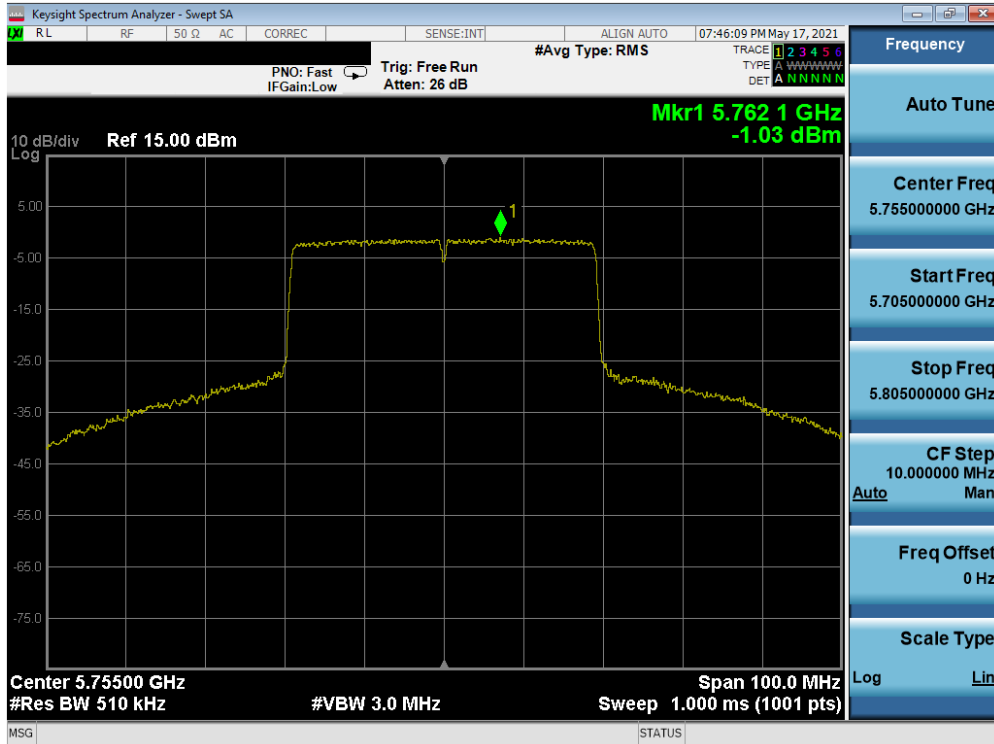


Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

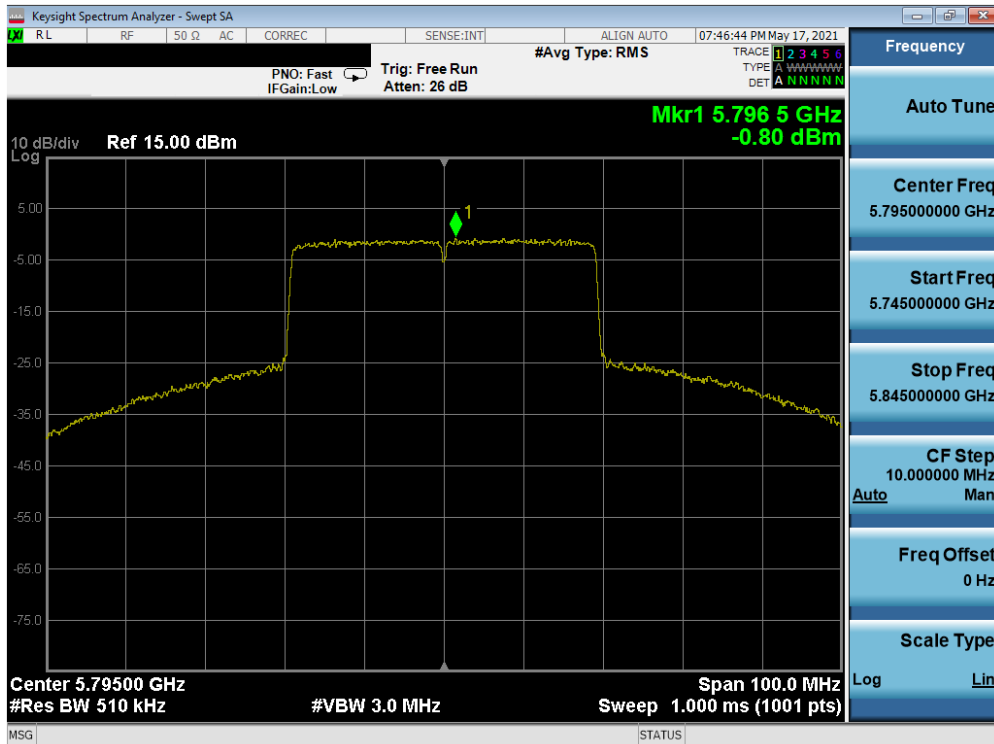


Plot 7-159. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 120 of 216

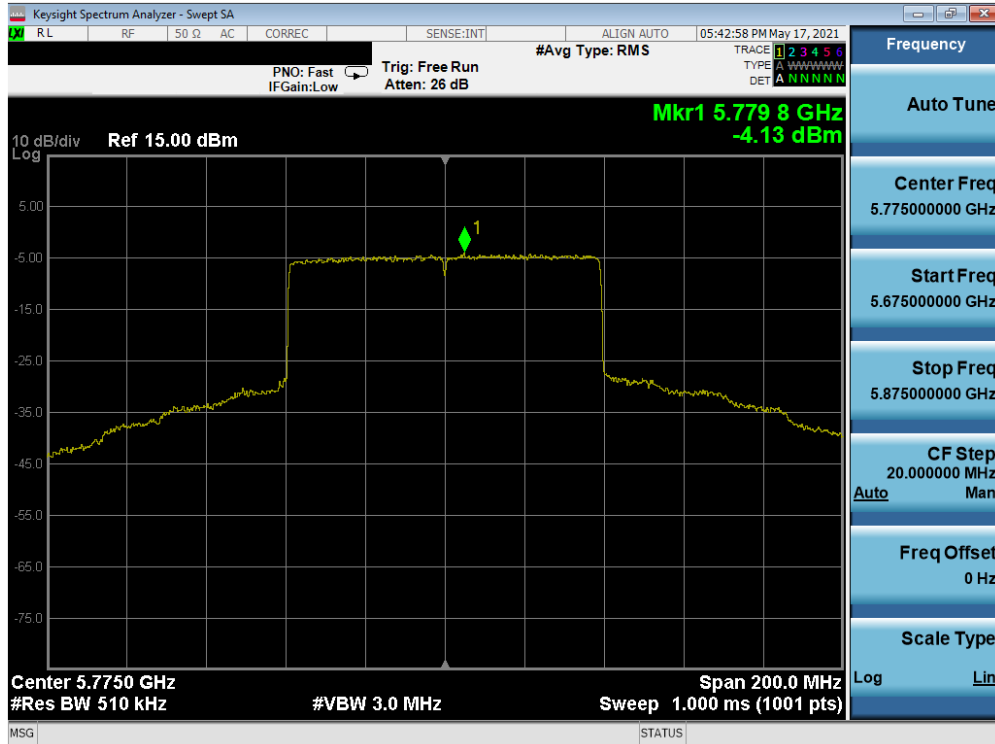


Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 121 of 216



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

### Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26T	MCS0	5.38	5.27	8.34	11.00	-2.66
	5200	40	ax (20MHz)	26T	MCS0	5.66	4.74	8.24	11.00	-2.76
	5240	48	ax (20MHz)	26T	MCS0	6.64	5.90	9.30	11.00	-1.70
	5190	38	ax (40MHz)	26T	MCS0	6.90	5.81	9.40	11.00	-1.60
	5230	46	ax (40MHz)	26T	MCS0	7.84	6.17	10.09	11.00	-0.91
Band 2A	5210	42	ax (80MHz)	26T	MCS0	5.94	7.31	9.69	11.00	-1.31
	5260	52	ax (20MHz)	26T	MCS0	7.05	5.94	9.54	11.00	-1.46
	5280	56	ax (20MHz)	26T	MCS0	6.92	6.04	9.51	11.00	-1.49
	5320	64	ax (20MHz)	26T	MCS0	7.51	6.25	9.94	11.00	-1.06
	5270	54	ax (40MHz)	26T	MCS0	7.65	6.36	10.06	11.00	-0.94
Band 2C	5310	62	ax (40MHz)	26T	MCS0	7.33	6.13	9.78	11.00	-1.22
	5290	58	ax (80MHz)	26T	MCS0	6.33	4.99	8.72	11.00	-2.28
	5500	100	ax (20MHz)	26T	MCS0	6.74	6.47	9.62	11.00	-1.38
	5600	120	ax (20MHz)	26T	MCS0	5.63	5.63	8.64	11.00	-2.36
	5720	144	ax (20MHz)	26T	MCS0	7.30	6.28	9.83	11.00	-1.17
	5510	102	ax (40MHz)	26T	MCS0	7.34	6.51	9.96	11.00	-1.04
	5590	118	ax (40MHz)	26T	MCS0	7.65	6.51	10.13	11.00	-0.87
	5710	142	ax (40MHz)	26T	MCS0	8.06	6.03	10.17	11.00	-0.83
5530	106	ax (80MHz)	26T	MCS0	7.21	6.51	9.88	11.00	-1.12	
5610	122	ax (80MHz)	26T	MCS0	7.47	6.17	9.88	11.00	-1.12	
5690	138	ax (80MHz)	26T	MCS0	6.33	7.12	9.75	11.00	-1.25	

Table 7-44. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMF711U1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 122 of 216

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	ax (20MHz)	26T	MCS0	5.64	3.62	7.75	30.00	-22.25
	5785	157	ax (20MHz)	26T	MCS0	4.55	4.79	7.68	30.00	-22.32
	5825	165	ax (20MHz)	26T	MCS0	4.89	5.09	8.00	30.00	-22.00
	5755	151	ax (40MHz)	26T	MCS0	5.53	6.76	9.20	30.00	-20.80
	5795	159	ax (40MHz)	26T	MCS0	4.48	5.92	8.27	30.00	-21.73
	5775	155	ax (80MHz)	26T	MCS0	5.51	5.16	8.35	30.00	-21.65

**Table 7-45. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)**

FCC ID: A3LSMF711U1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 123 of 216

## Summed MIMO Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	2.29	1.97	5.14	11.00	-5.86
	5200	40	ax (20MHz)	242T	MCS0	2.17	2.03	5.11	11.00	-5.89
	5240	48	ax (20MHz)	242T	MCS0	2.89	2.23	5.58	11.00	-5.42
	5190	38	ax (40MHz)	484T	MCS0	0.36	-1.44	2.56	11.00	-8.44
	5230	46	ax (40MHz)	484T	MCS0	1.49	-0.63	3.57	11.00	-7.43
Band 2A	5210	42	ax (80MHz)	996T	MCS0	-3.36	-4.73	-0.98	11.00	-11.98
	5260	52	ax (20MHz)	242T	MCS0	3.60	2.27	6.00	11.00	-5.00
	5280	56	ax (20MHz)	242T	MCS0	3.64	2.17	5.98	11.00	-5.02
	5320	64	ax (20MHz)	242T	MCS0	3.61	2.35	6.04	11.00	-4.96
	5270	54	ax (40MHz)	484T	MCS0	-0.87	-0.22	2.48	11.00	-8.52
Band 2C	5310	62	ax (40MHz)	484T	MCS0	-1.22	-1.59	1.61	11.00	-9.39
	5290	58	ax (80MHz)	996T	MCS0	-6.36	-5.51	-2.90	11.00	-13.90
	5500	100	ax (20MHz)	242T	MCS0	3.13	3.25	6.20	11.00	-4.80
	5600	120	ax (20MHz)	242T	MCS0	2.27	2.79	5.55	11.00	-5.45
	5720	144	ax (20MHz)	242T	MCS0	3.39	2.52	5.99	11.00	-5.01
	5510	102	ax (40MHz)	484T	MCS0	0.14	-0.05	3.06	11.00	-7.94
	5590	118	ax (40MHz)	484T	MCS0	0.79	0.03	3.44	11.00	-7.56
	5710	142	ax (40MHz)	484T	MCS0	0.27	1.24	3.79	11.00	-7.21
5530	106	ax (80MHz)	996T	MCS0	-3.29	-3.79	-0.52	11.00	-11.52	
5610	122	ax (80MHz)	996T	MCS0	-3.10	-4.38	-0.68	11.00	-11.68	
5690	138	ax (80MHz)	996T	MCS0	-1.62	-0.41	2.04	11.00	-8.96	

Table 7-46. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	2.03	0.07	4.17	30.00	-25.83
	5785	157	ax (20MHz)	242T	MCS0	0.60	0.69	3.66	30.00	-26.34
	5825	165	ax (20MHz)	242T	MCS0	0.92	1.35	4.15	30.00	-25.85
	5755	151	ax (40MHz)	484T	MCS0	-1.87	0.29	2.35	30.00	-27.65
	5795	159	ax (40MHz)	484T	MCS0	-1.61	-0.84	1.80	30.00	-28.20
	5775	155	ax (80MHz)	996T	MCS0	-3.49	-3.50	-0.48	30.00	-30.48

Table 7-47. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

Note:

### Sample MIMO Calculation:

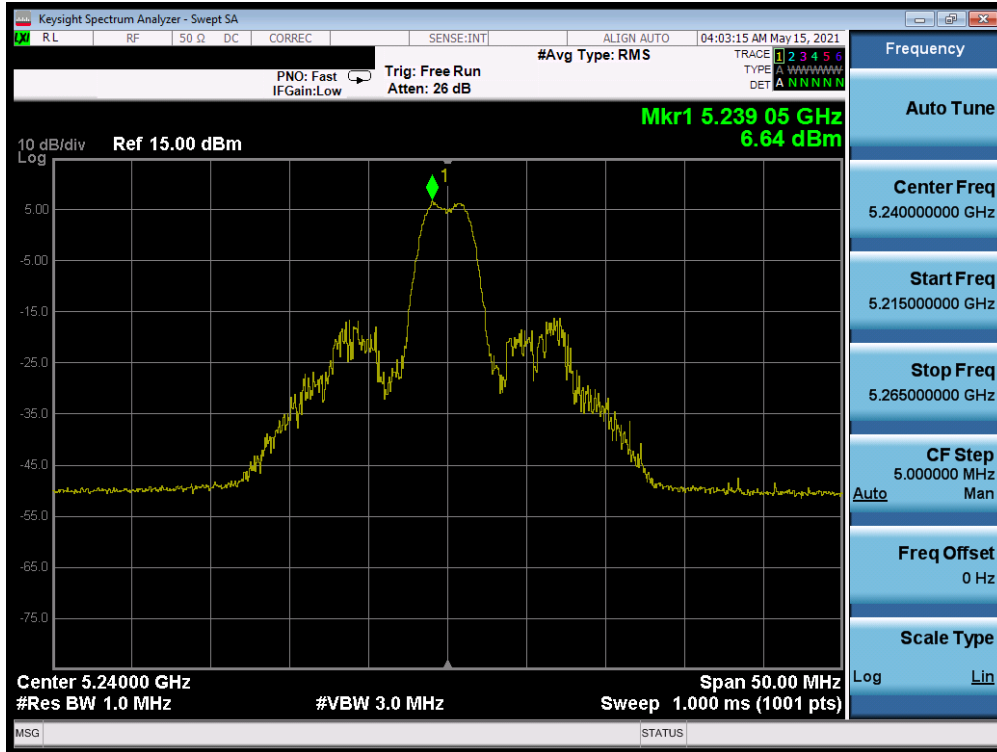
Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

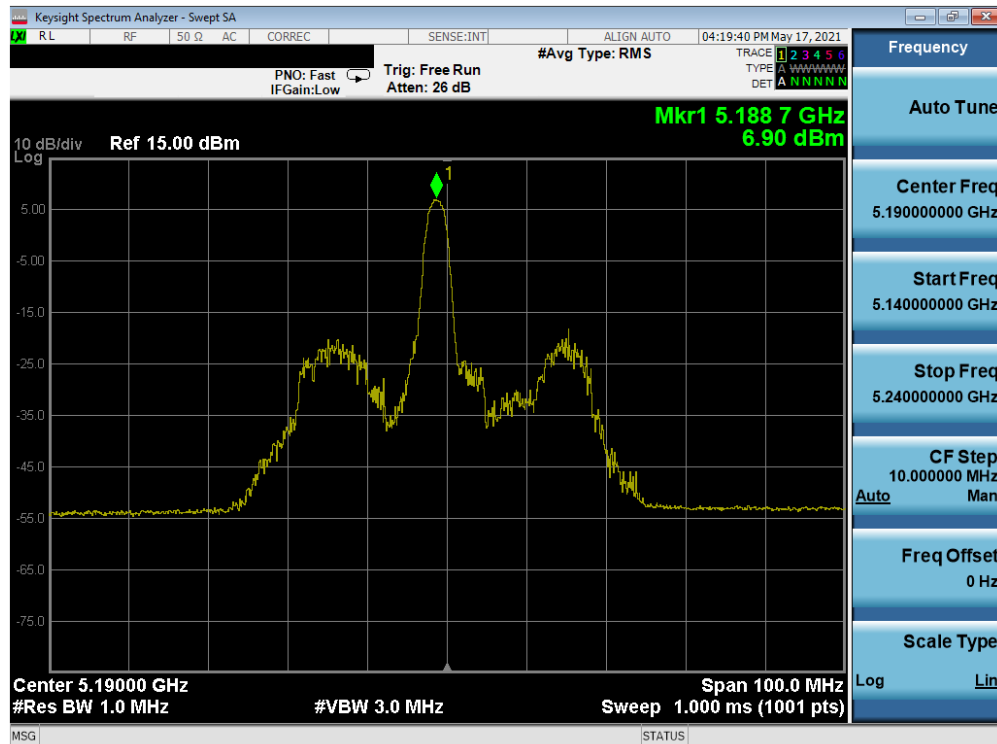
$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

FCC ID: A3LSMF711U1		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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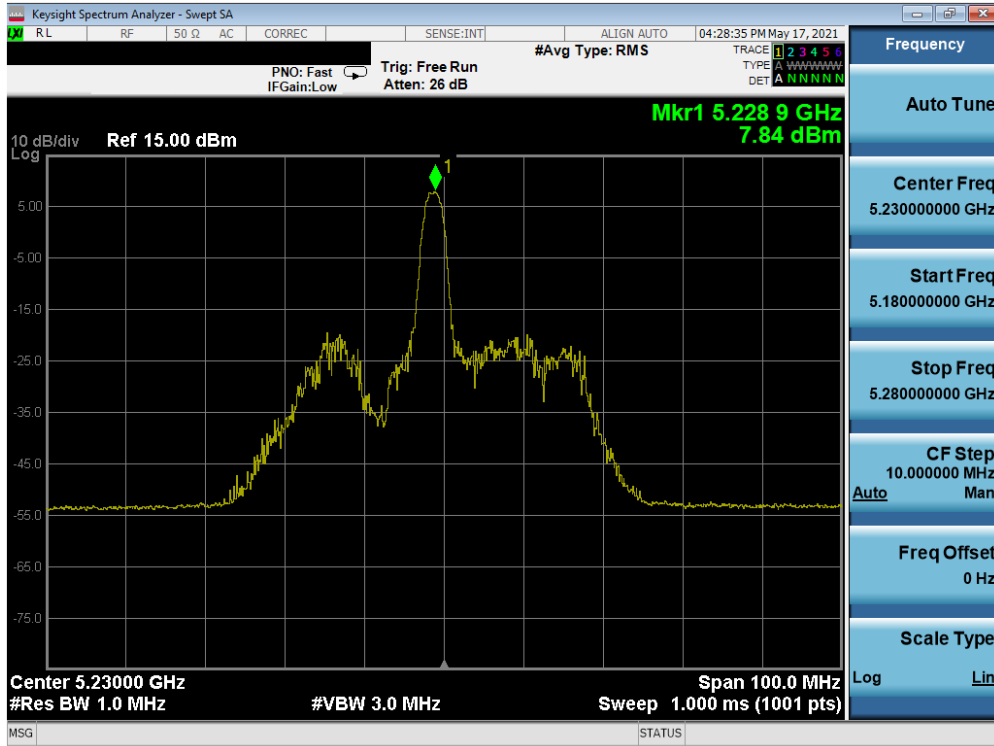
Plot 7-165. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



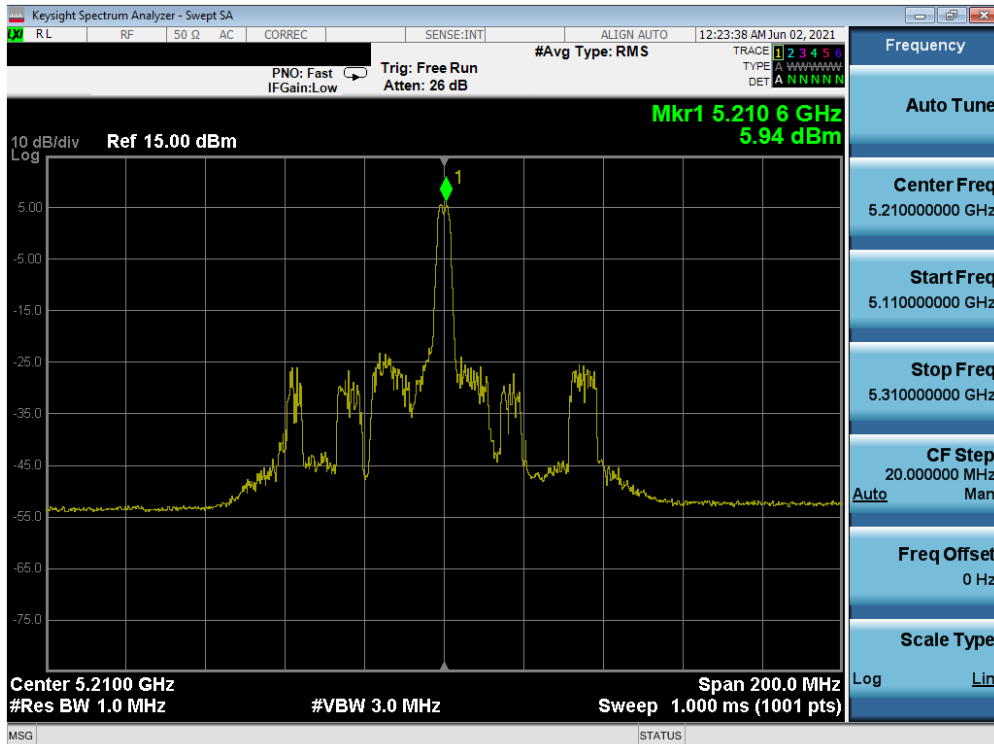
Plot 7-166. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 126 of 216




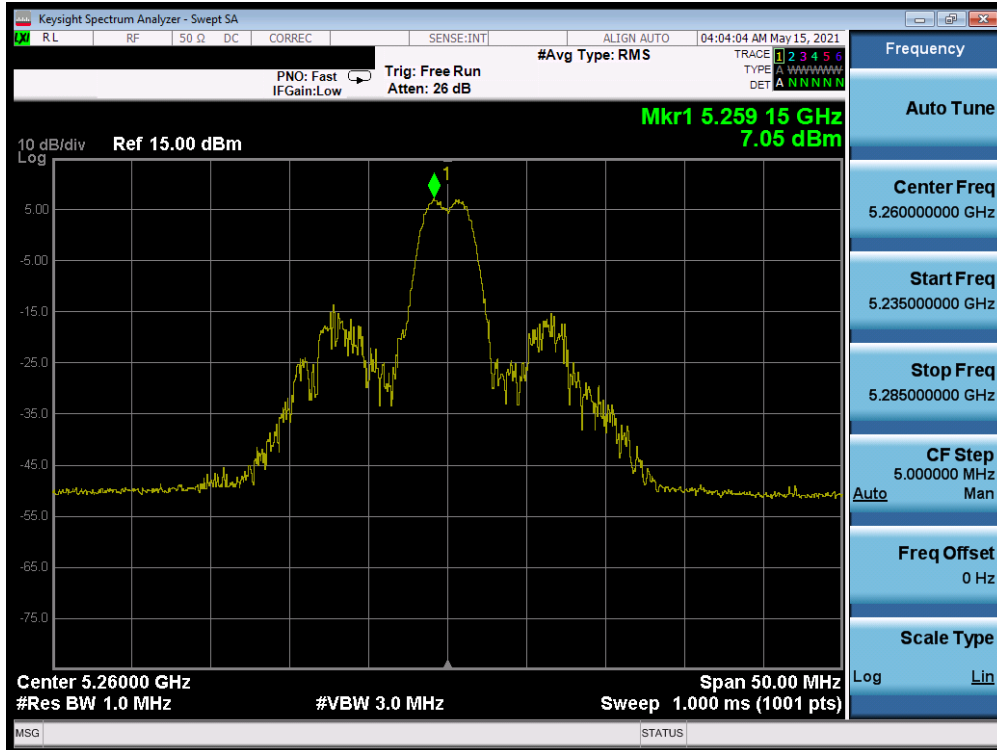


Plot 7-167. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

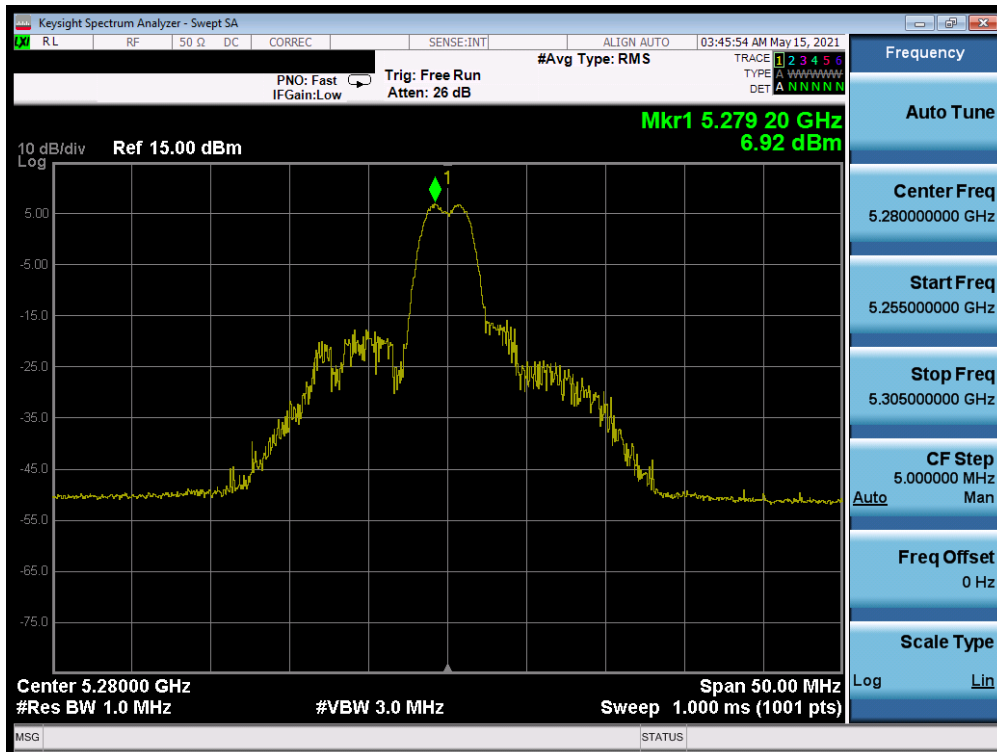


Plot 7-168. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U1	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 127 of 216

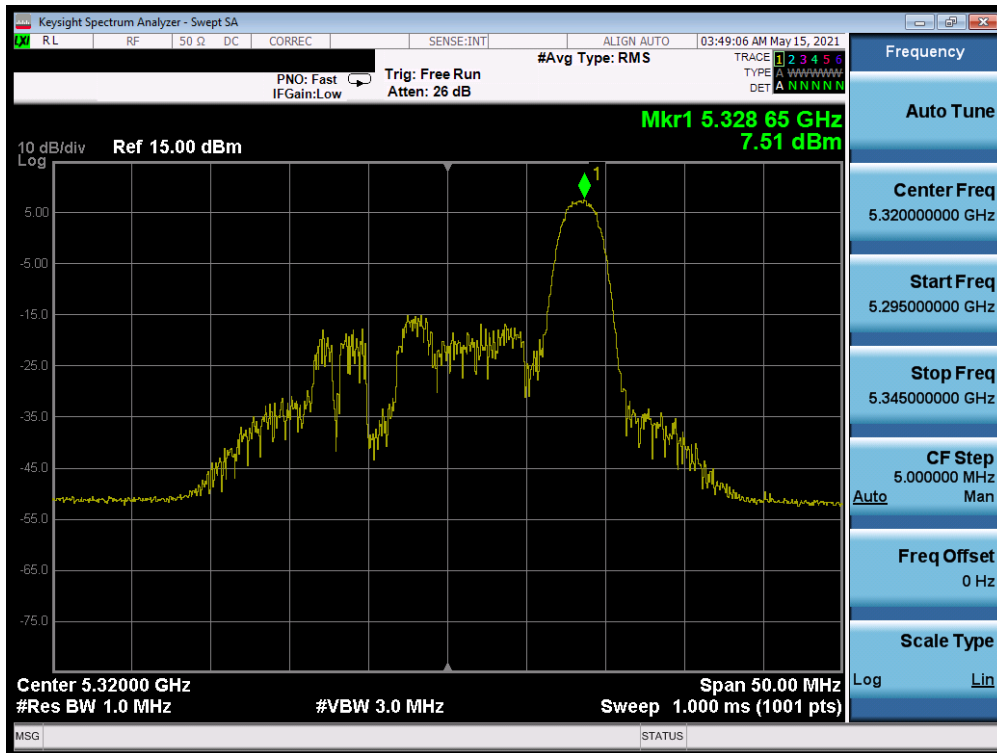


Plot 7-169. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

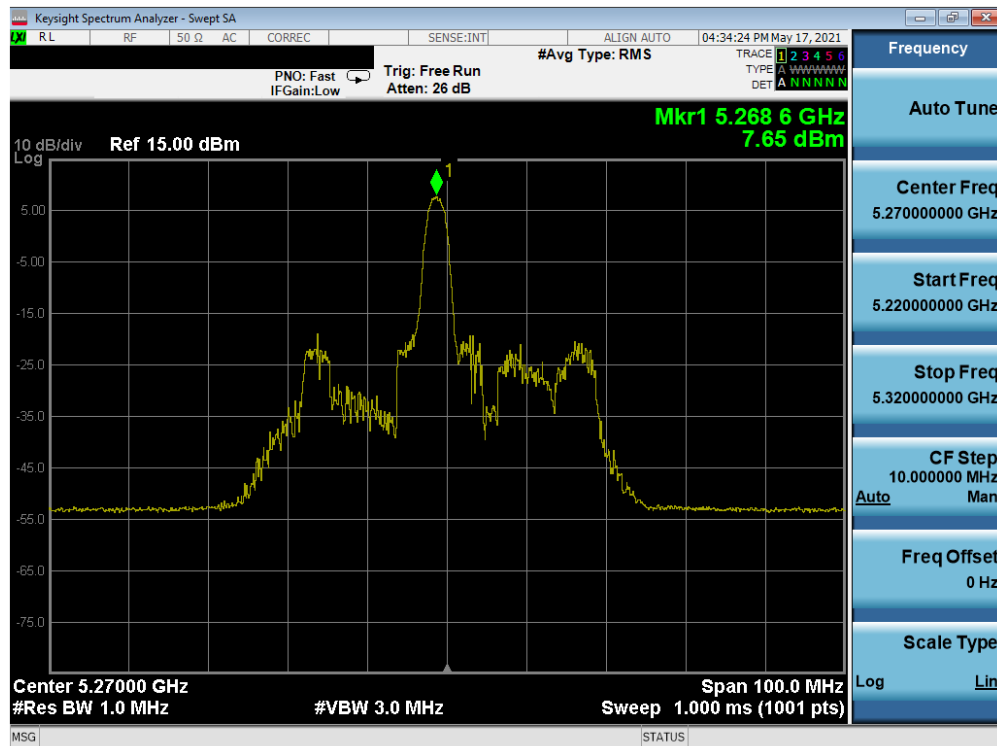


Plot 7-170. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 128 of 216

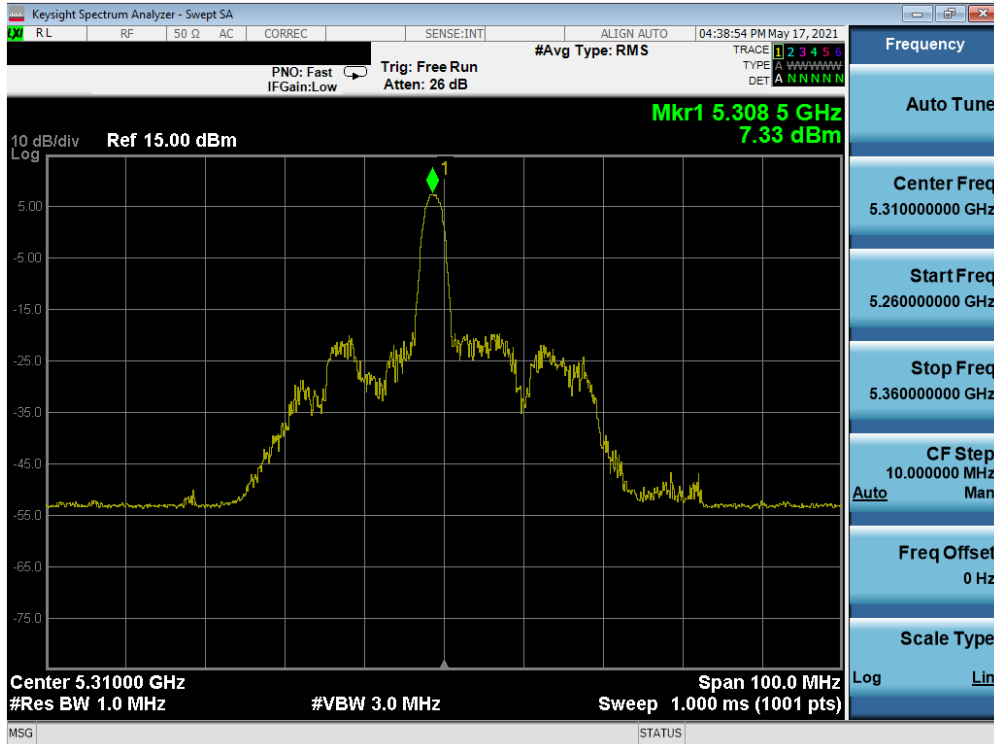


Plot 7-171. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

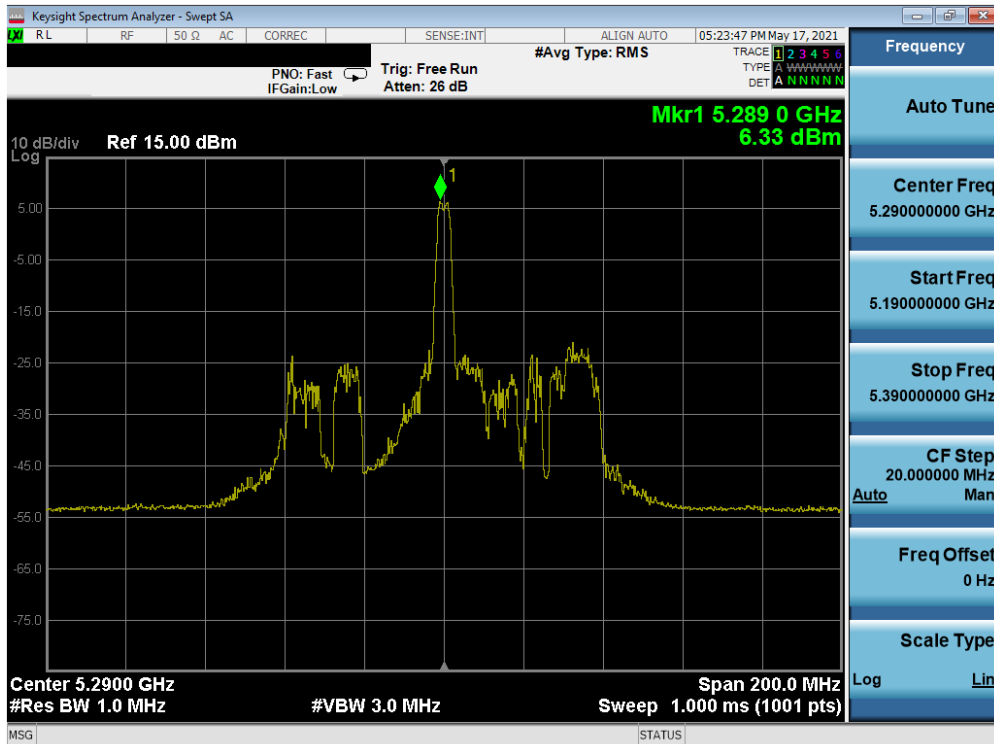


Plot 7-172. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 129 of 216

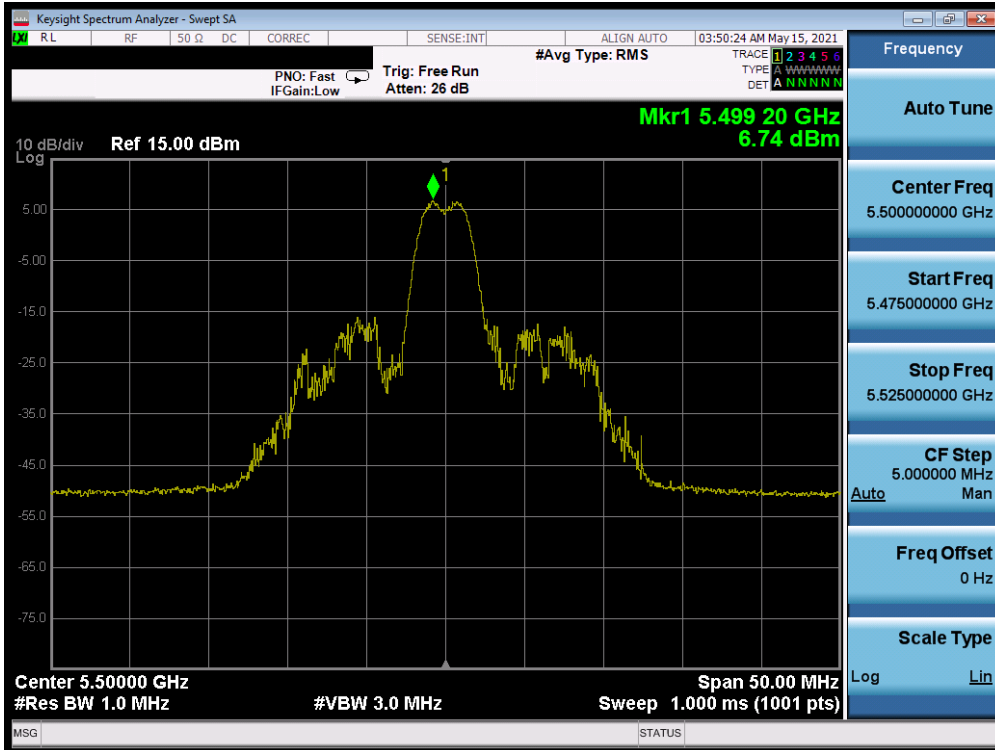


Plot 7-173. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

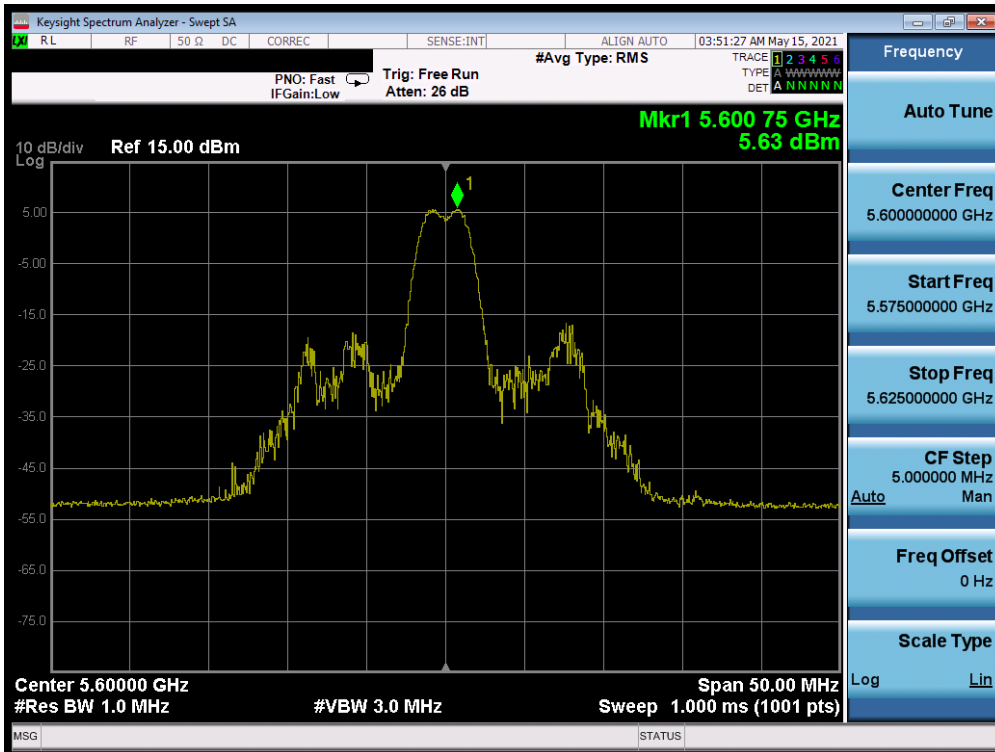


Plot 7-174. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 130 of 216

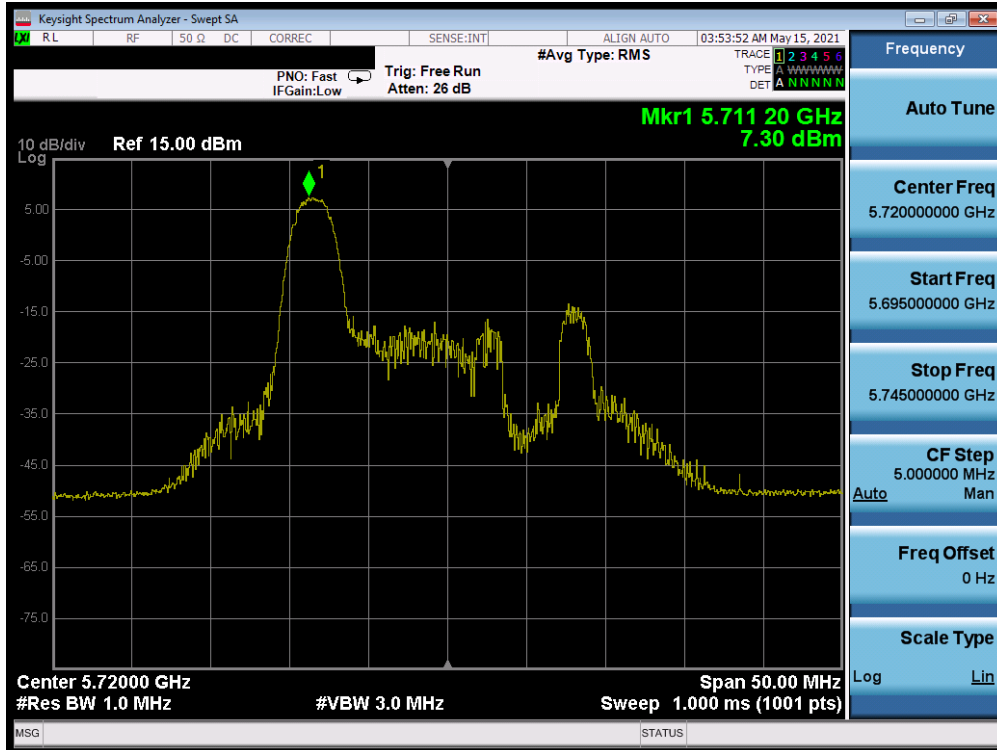


Plot 7-175. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

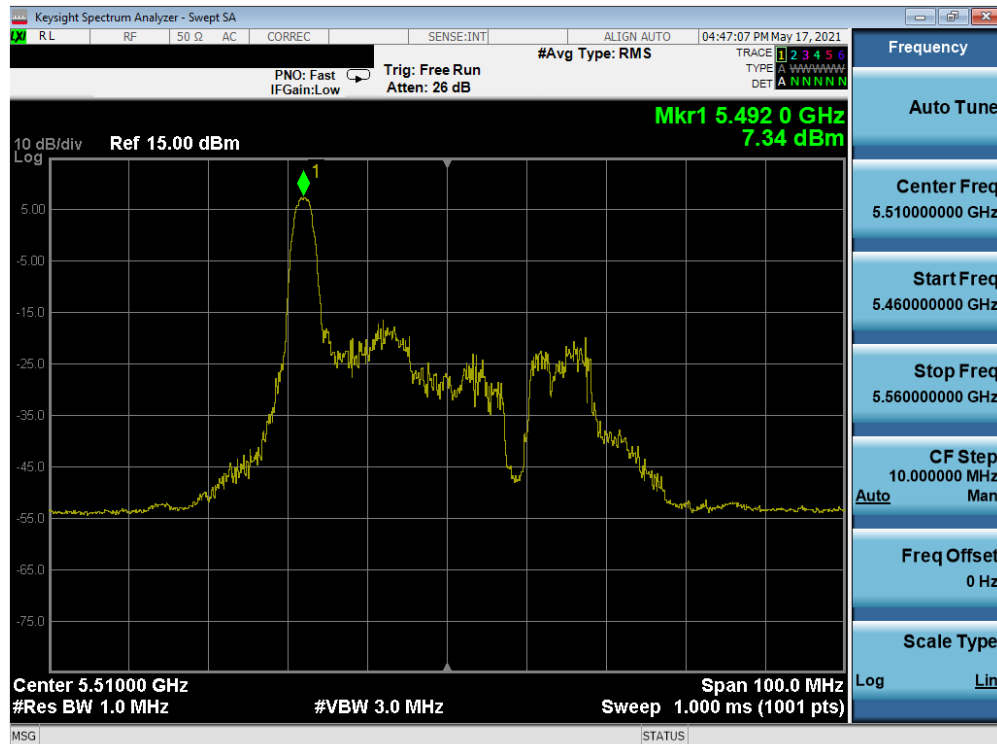


Plot 7-176. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 131 of 216



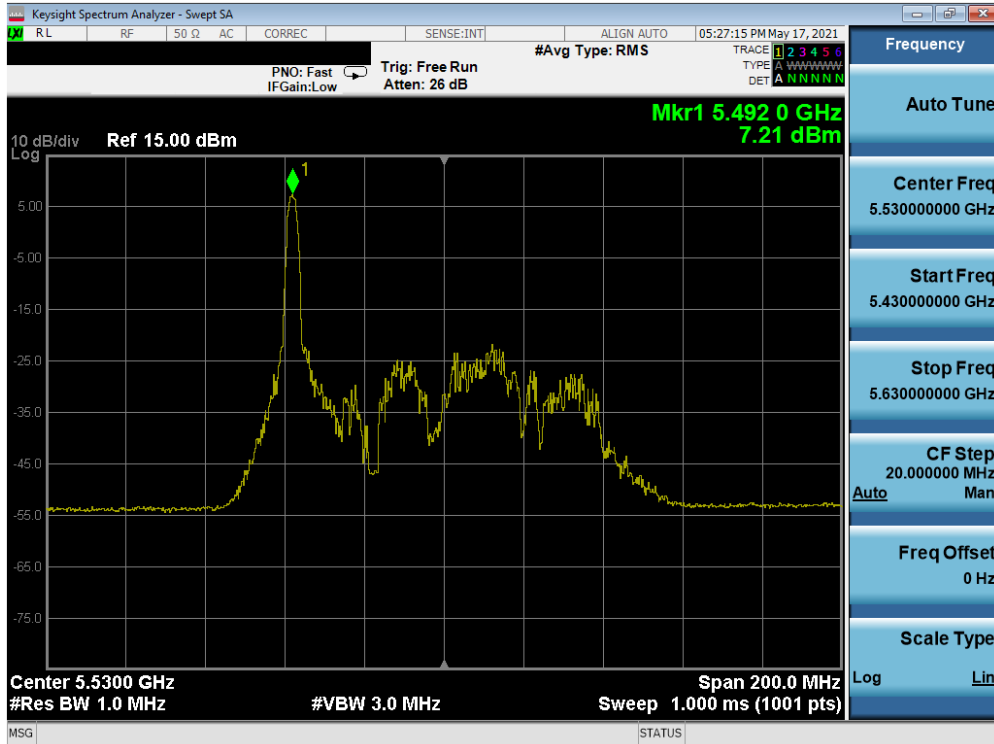
Plot 7-177. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



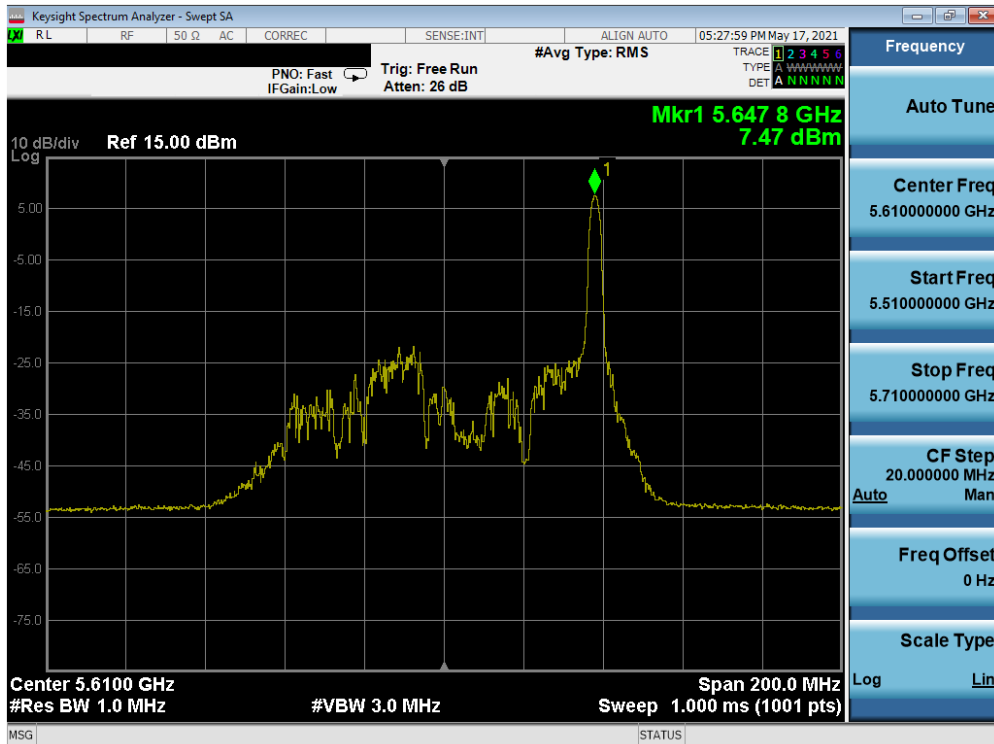
Plot 7-178. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 132 of 216





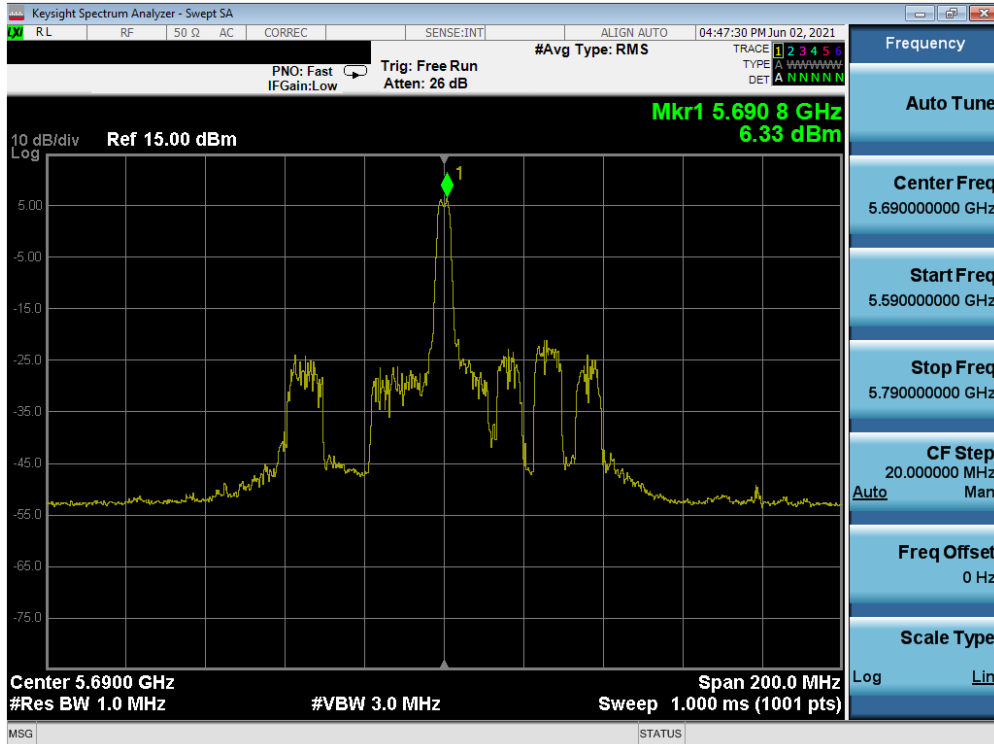
Plot 7-181. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



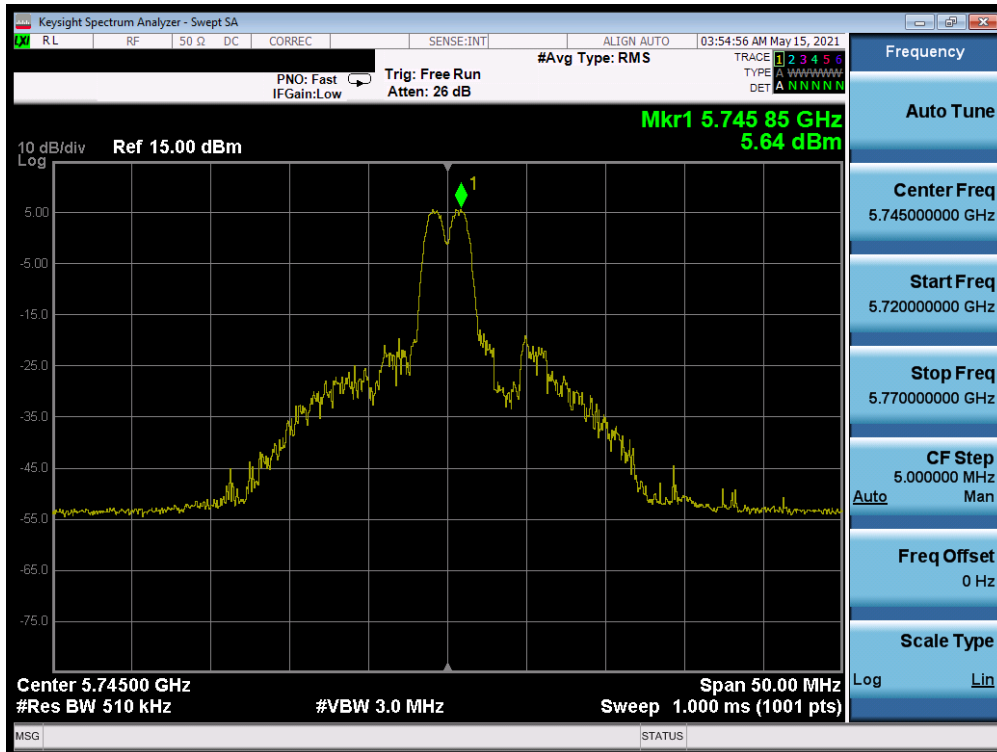
Plot 7-182. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 134 of 216



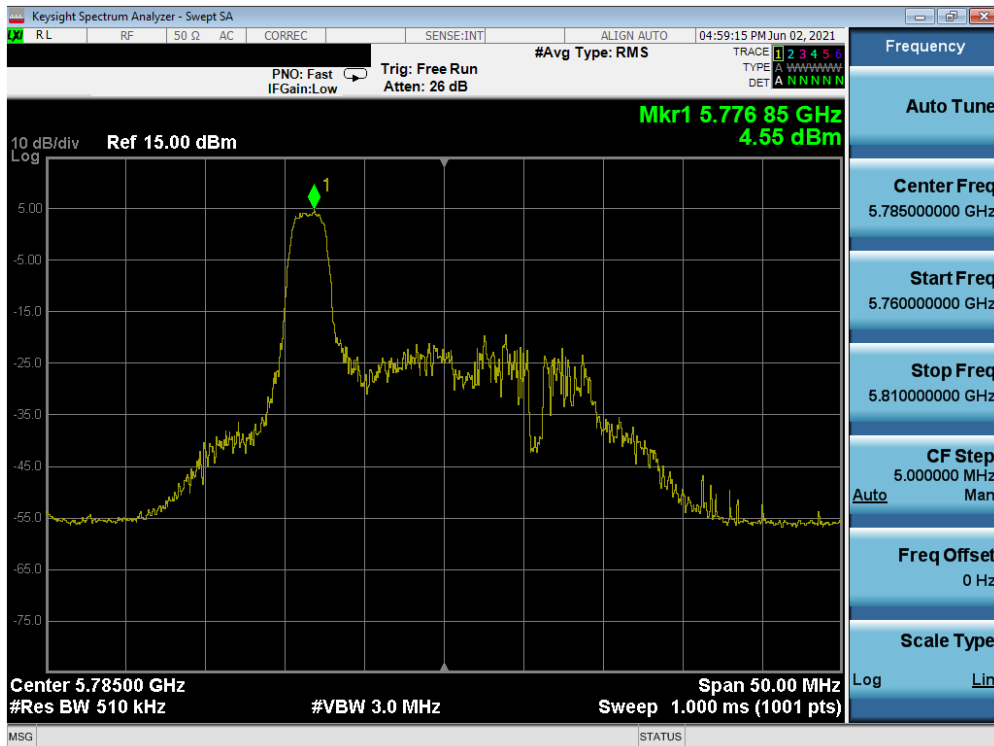


Plot 7-183. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

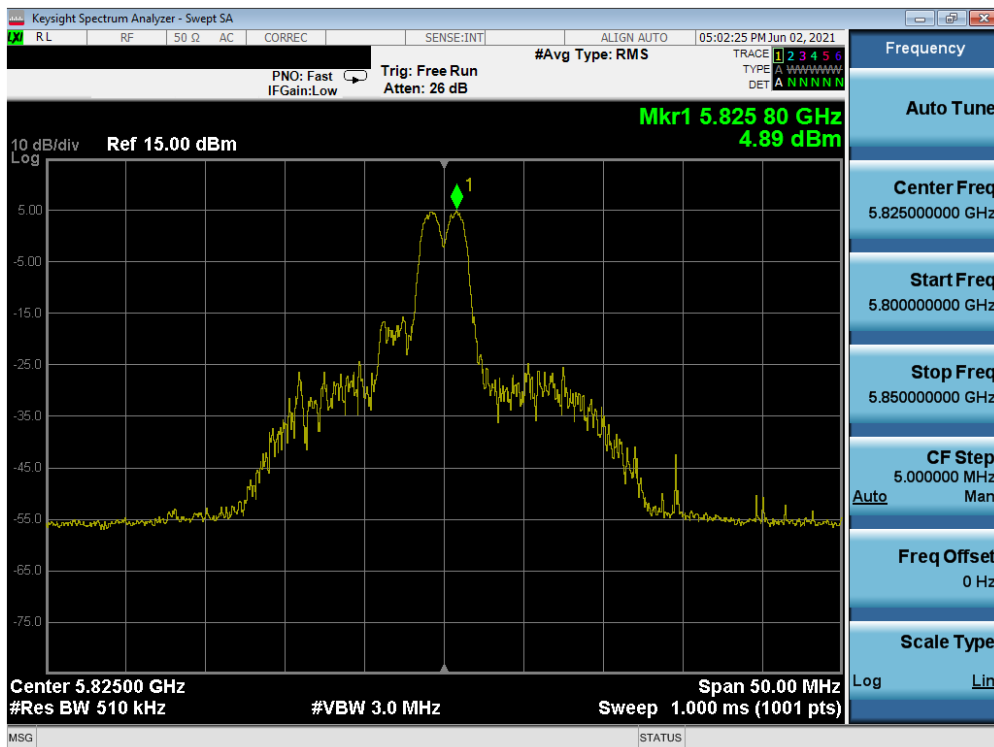


Plot 7-184. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 135 of 216

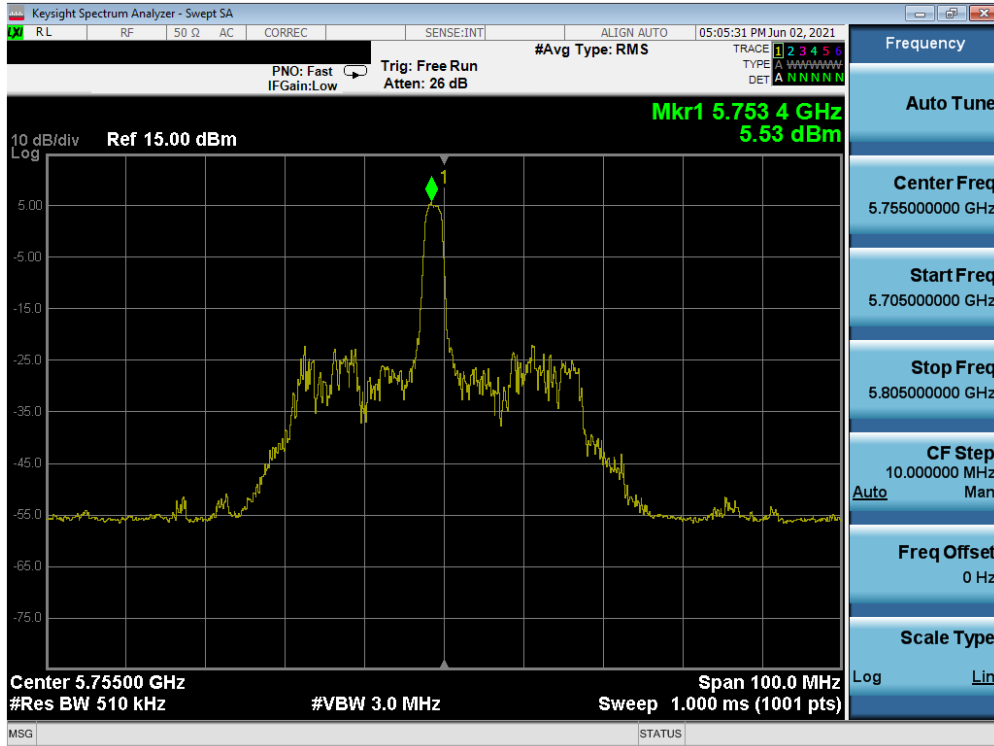


Plot 7-185. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

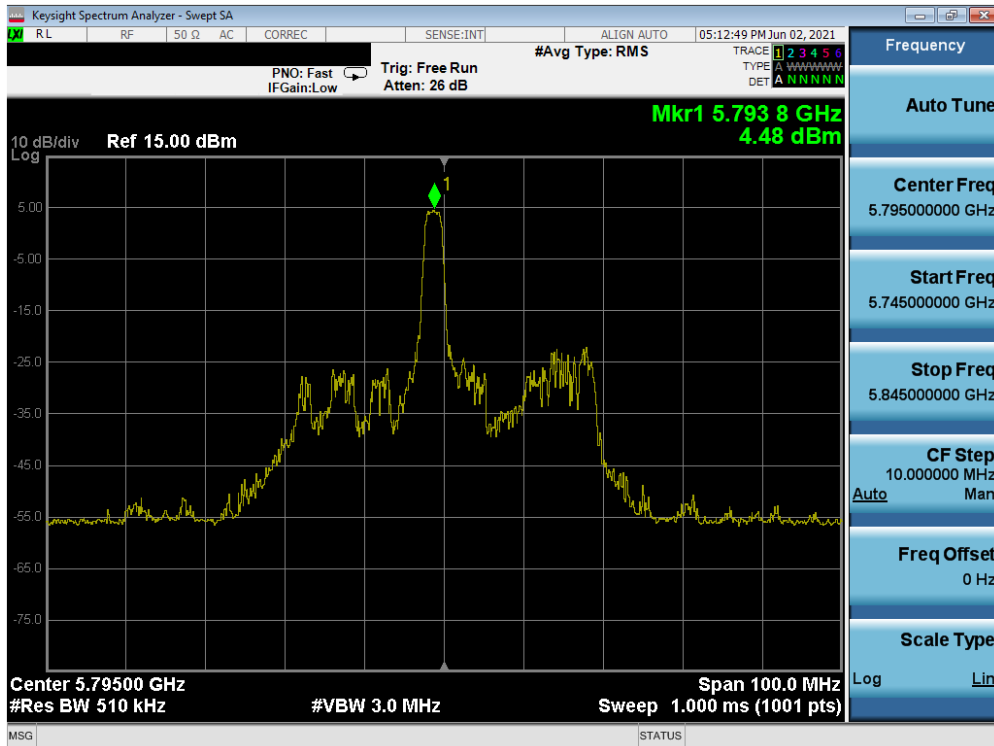


Plot 7-186. Power Spectral Density Plot MIMO ANT1 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 136 of 216

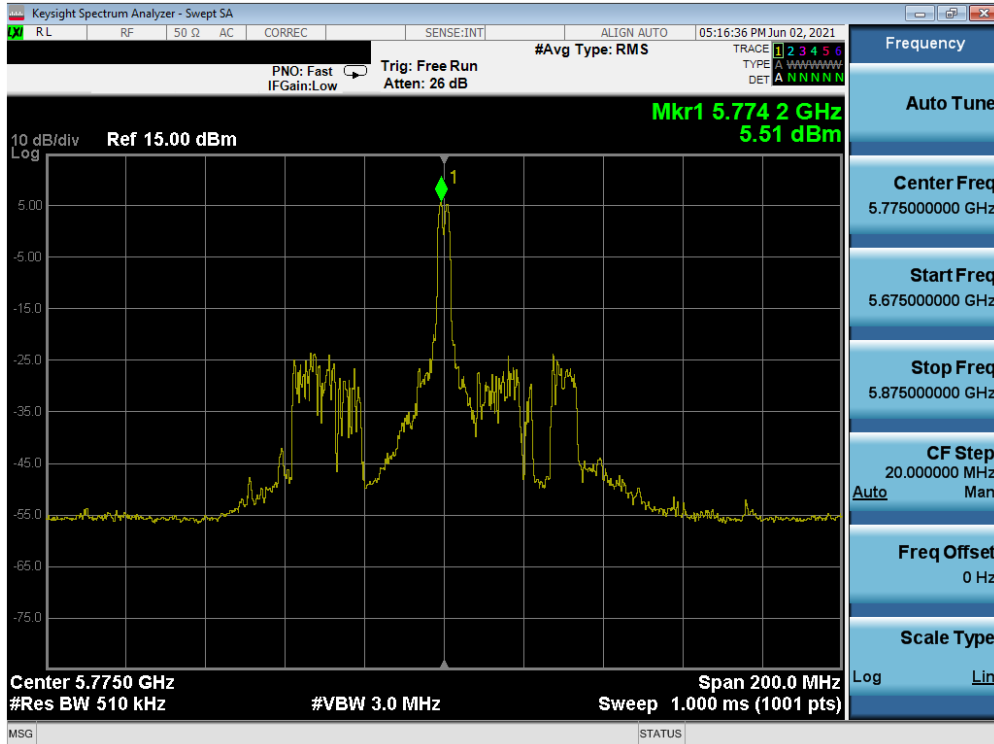


Plot 7-187. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-188. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

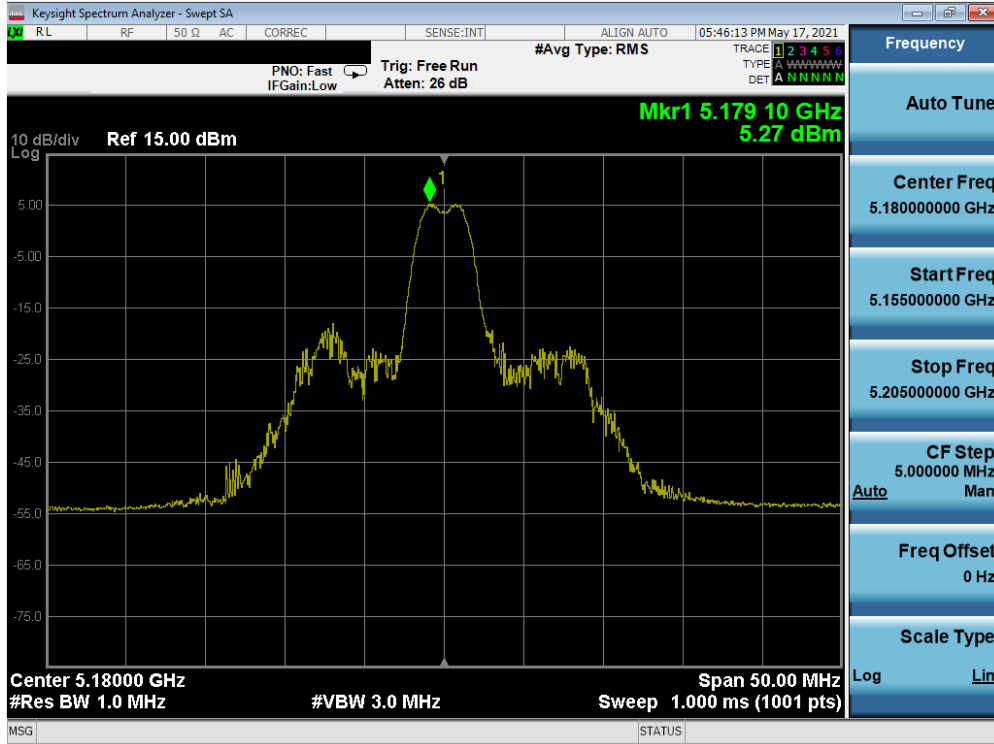
FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 137 of 216



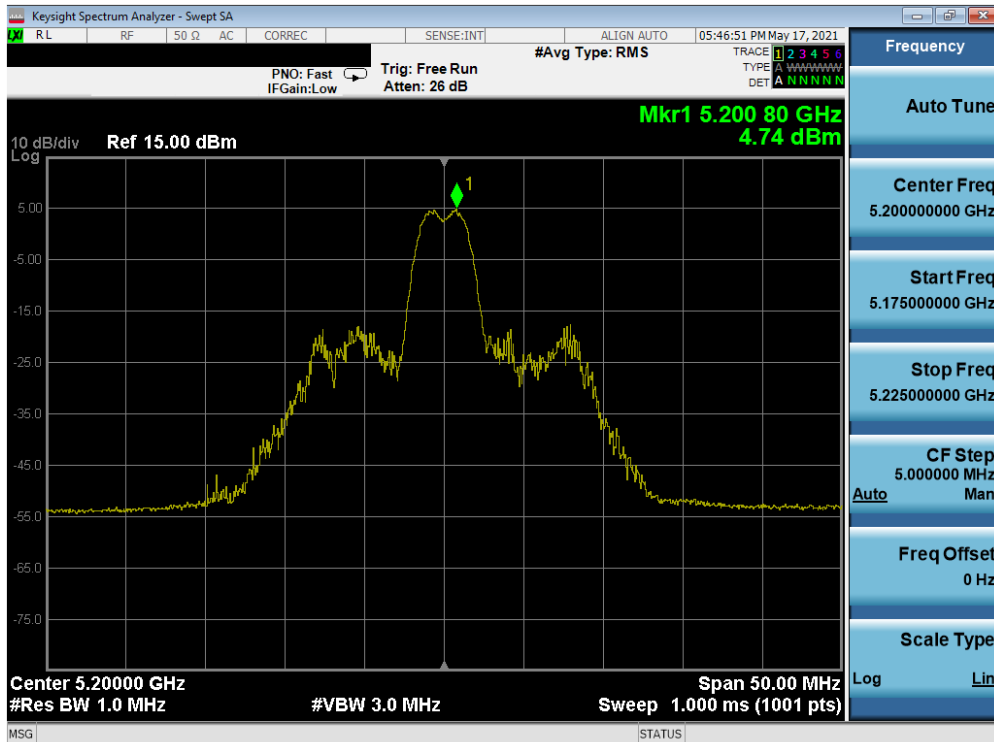
Plot 7-189. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 138 of 216

## MIMO Antenna-2 Power Spectral Density Measurements (26 Tones)

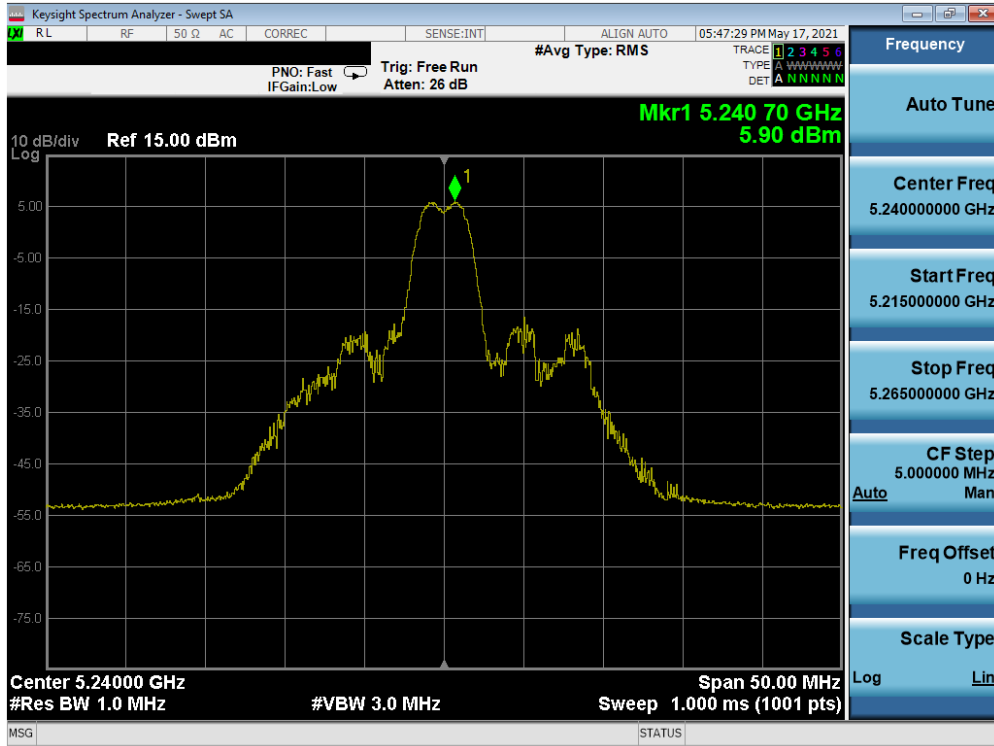


Plot 7-190. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

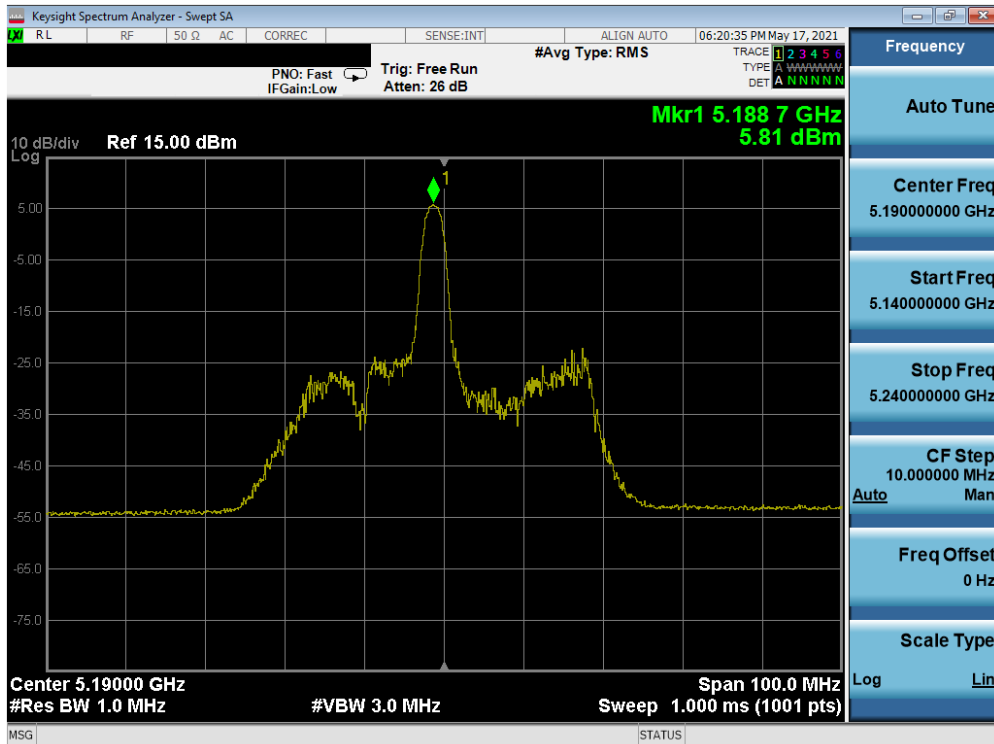


Plot 7-191. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 139 of 216

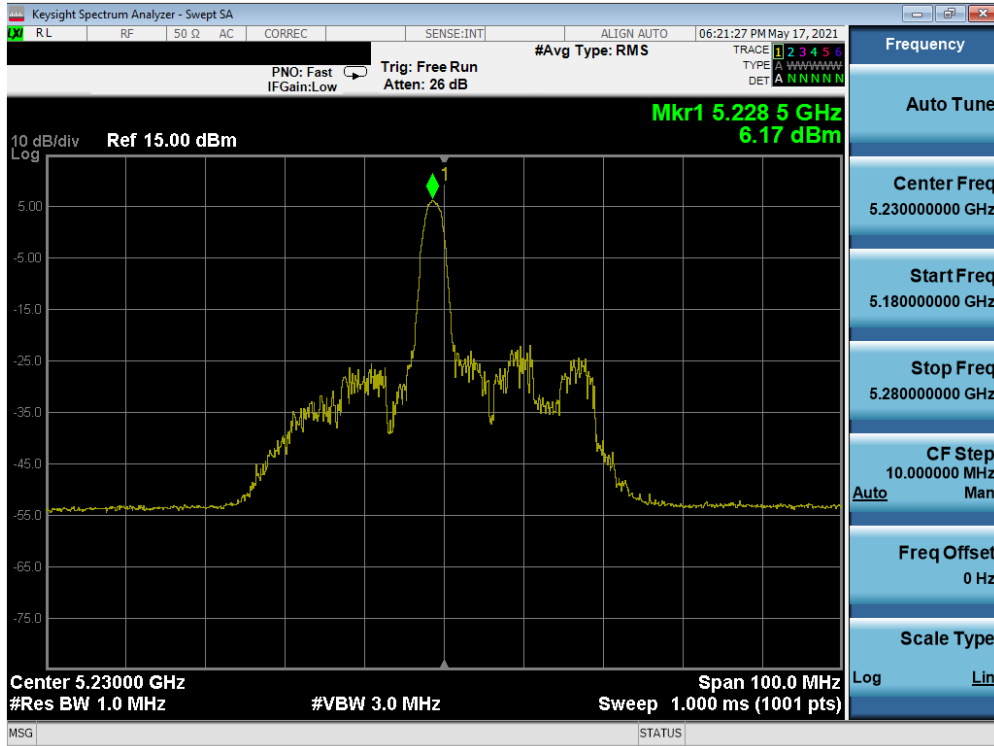


Plot 7-192. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

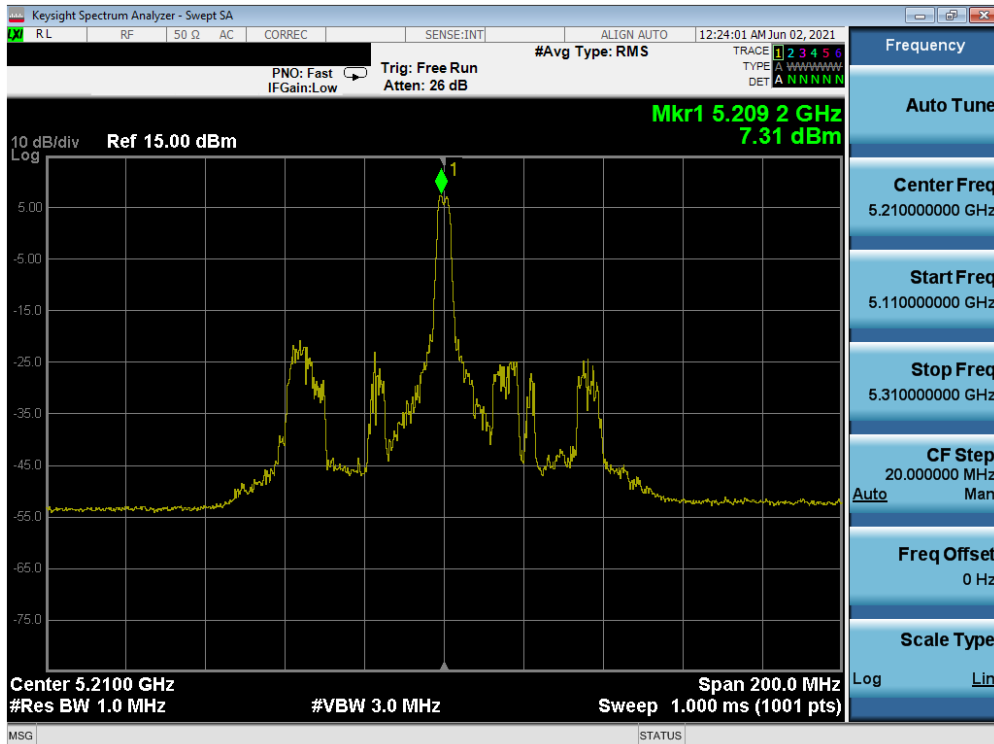


Plot 7-193. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 140 of 216

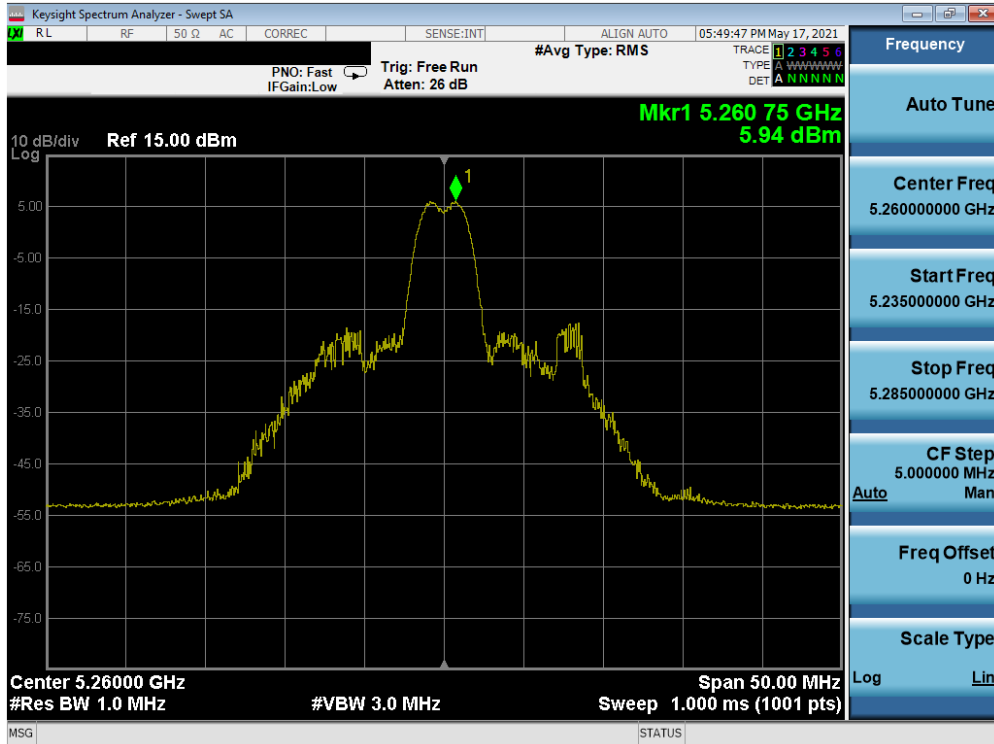


Plot 7-194. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

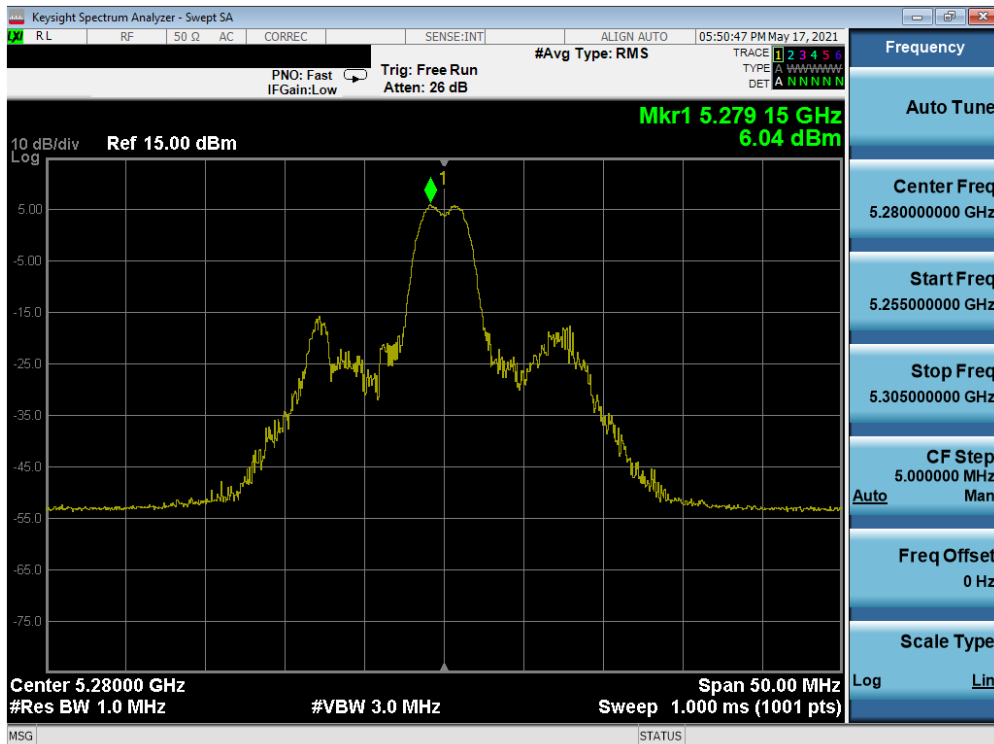


Plot 7-195. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 141 of 216



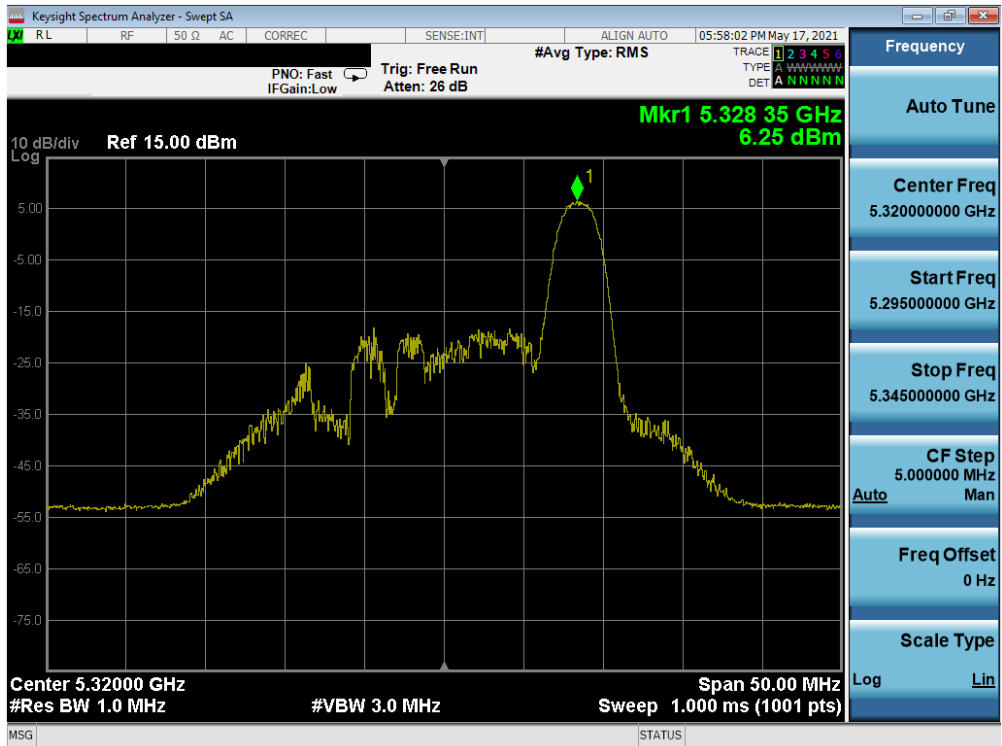
Plot 7-196. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)



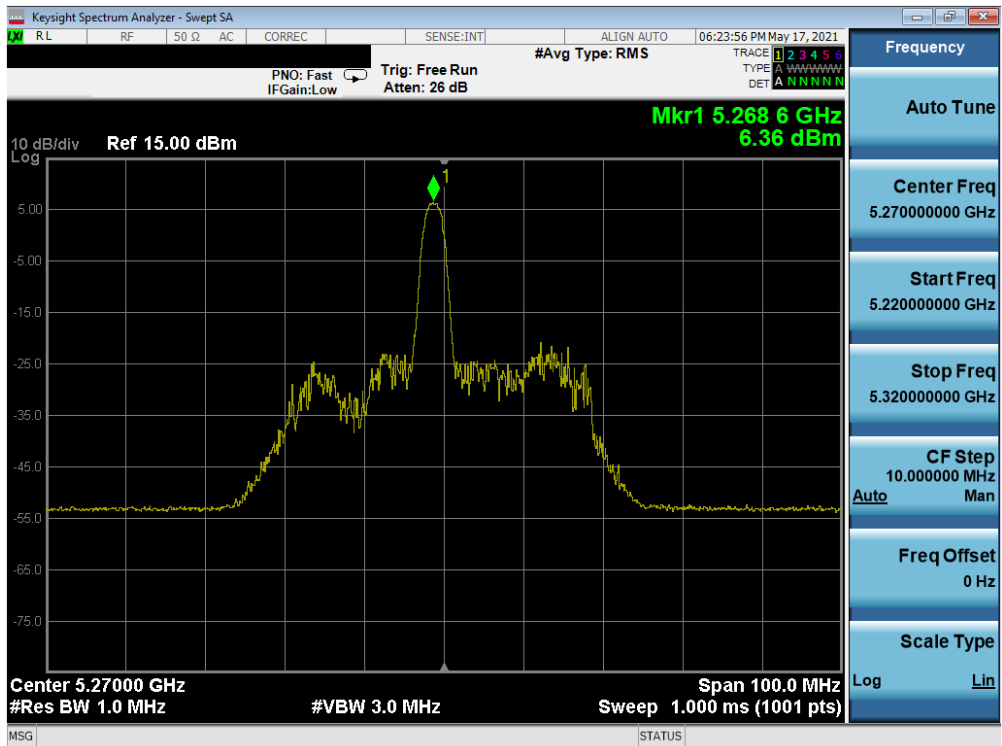
Plot 7-197. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 142 of 216





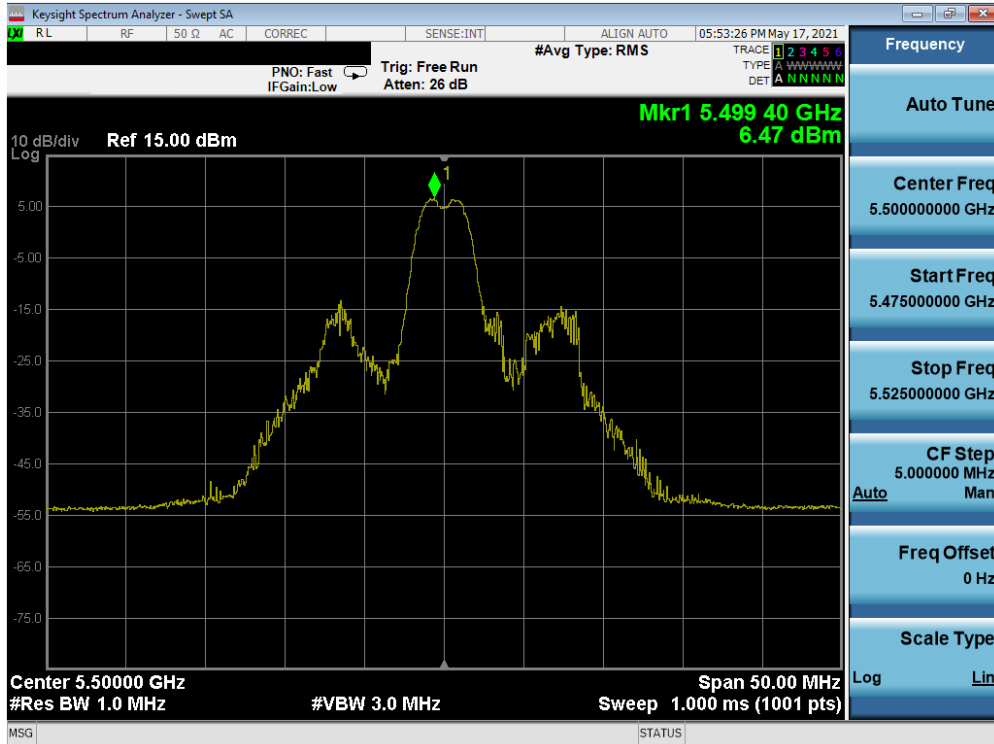
Plot 7-198. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



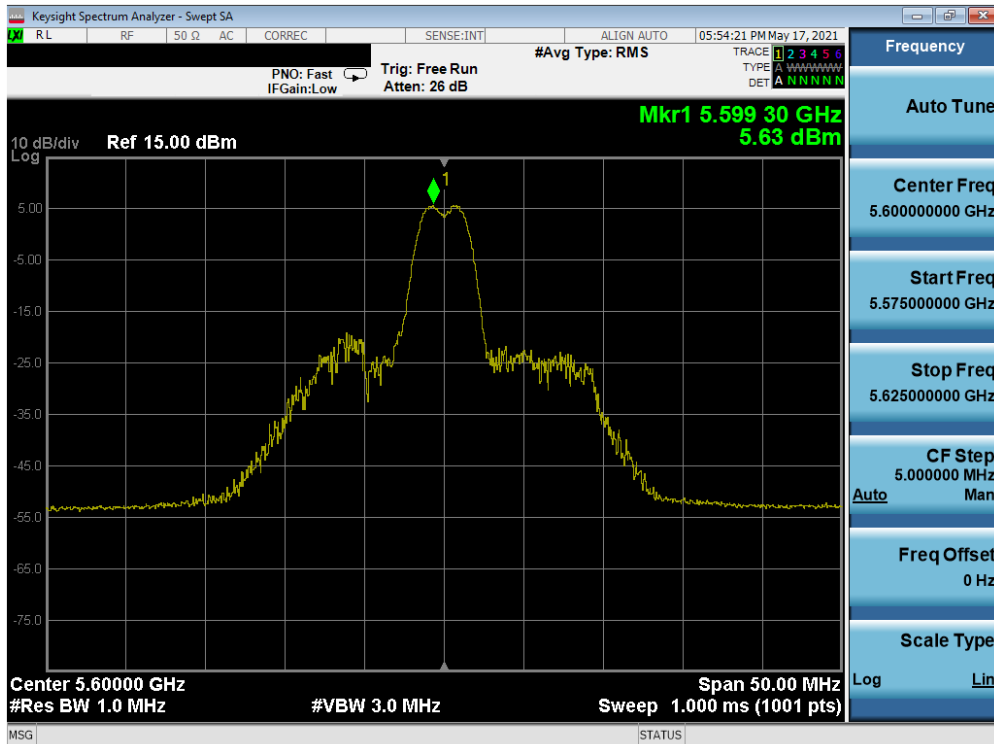
Plot 7-199. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 143 of 216





Plot 7-202. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

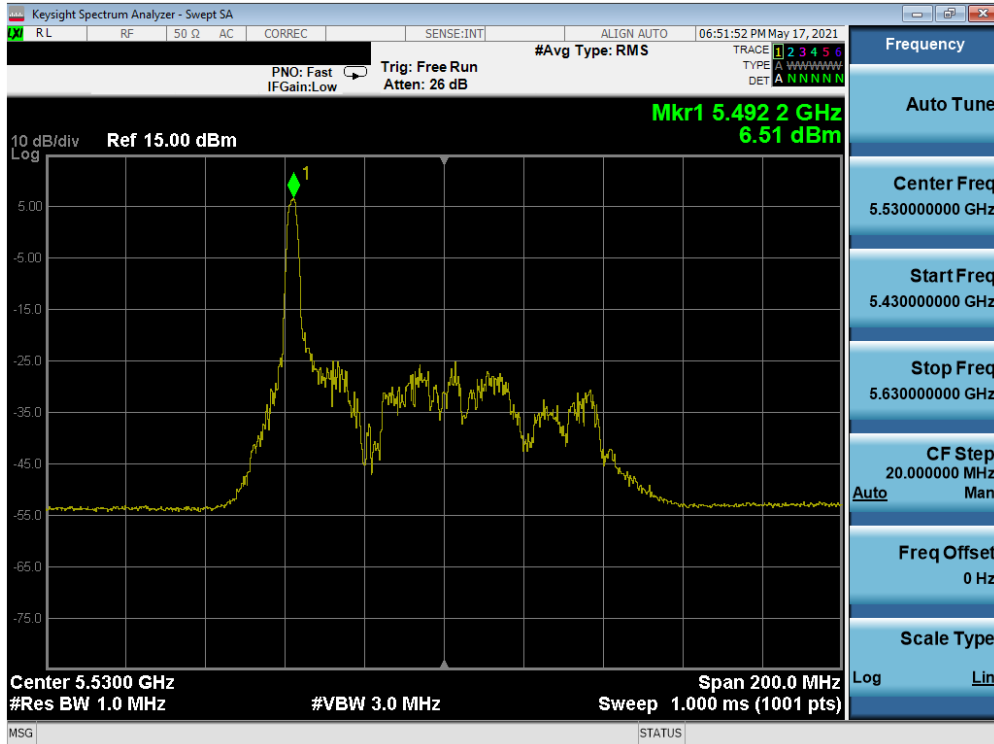


Plot 7-203. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

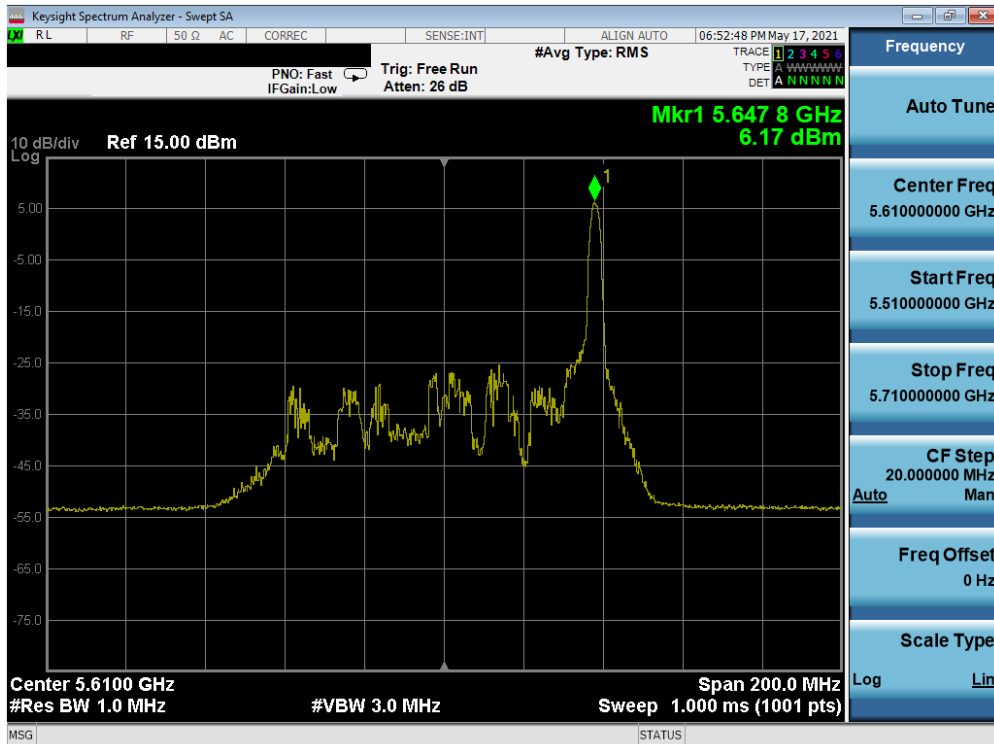
FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 145 of 216





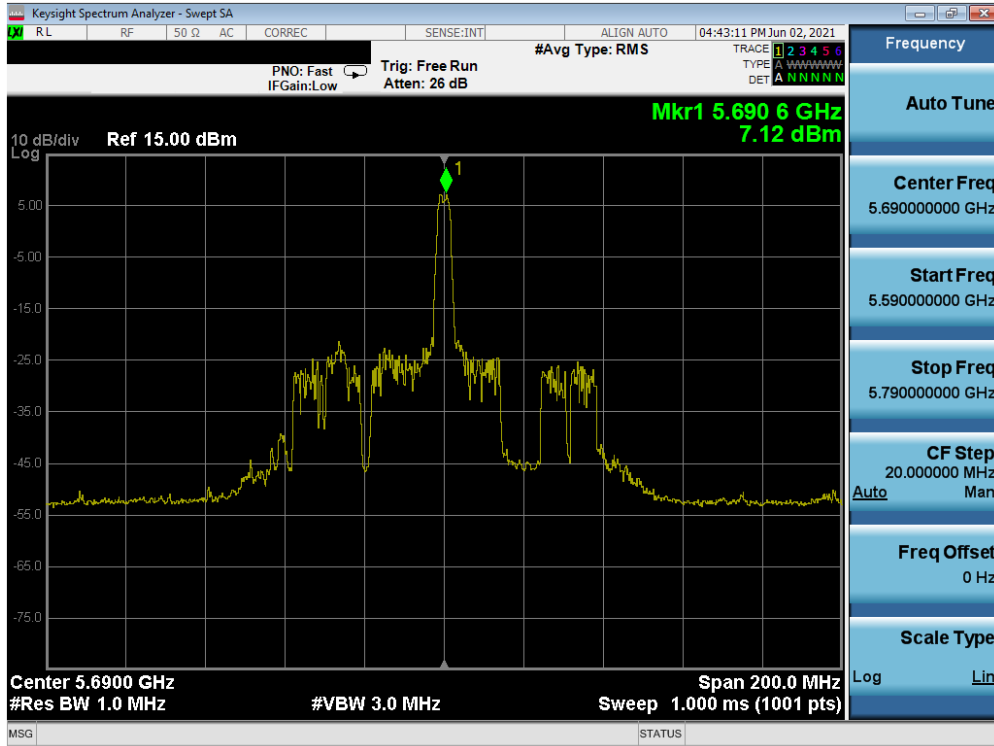


Plot 7-208. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

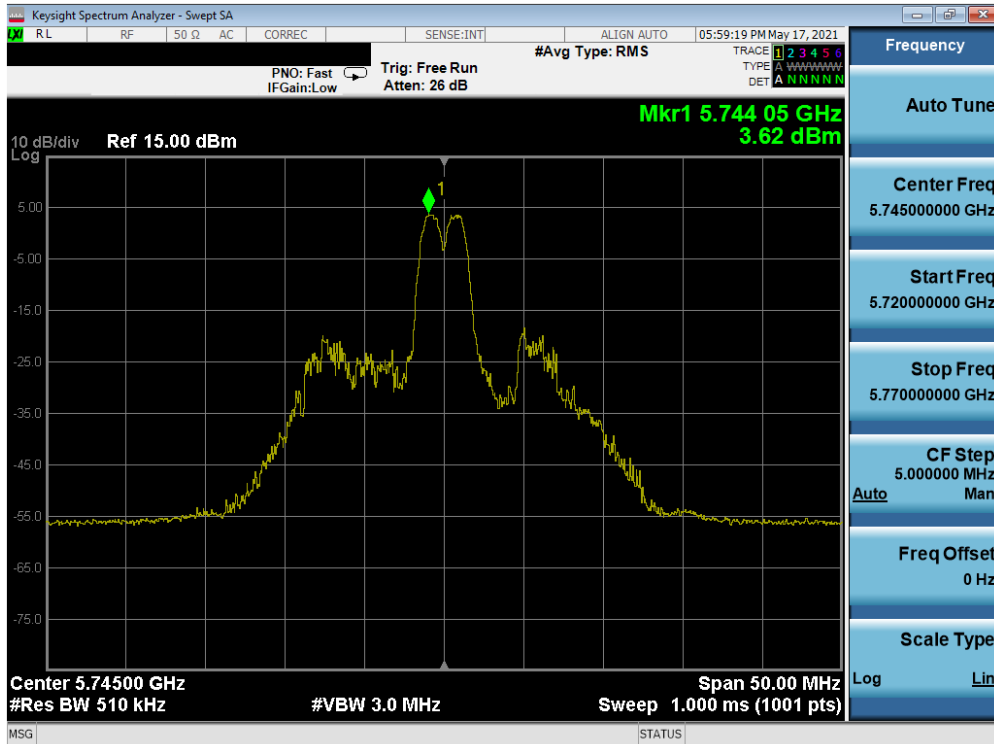


Plot 7-209. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 148 of 216



Plot 7-210. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-211. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

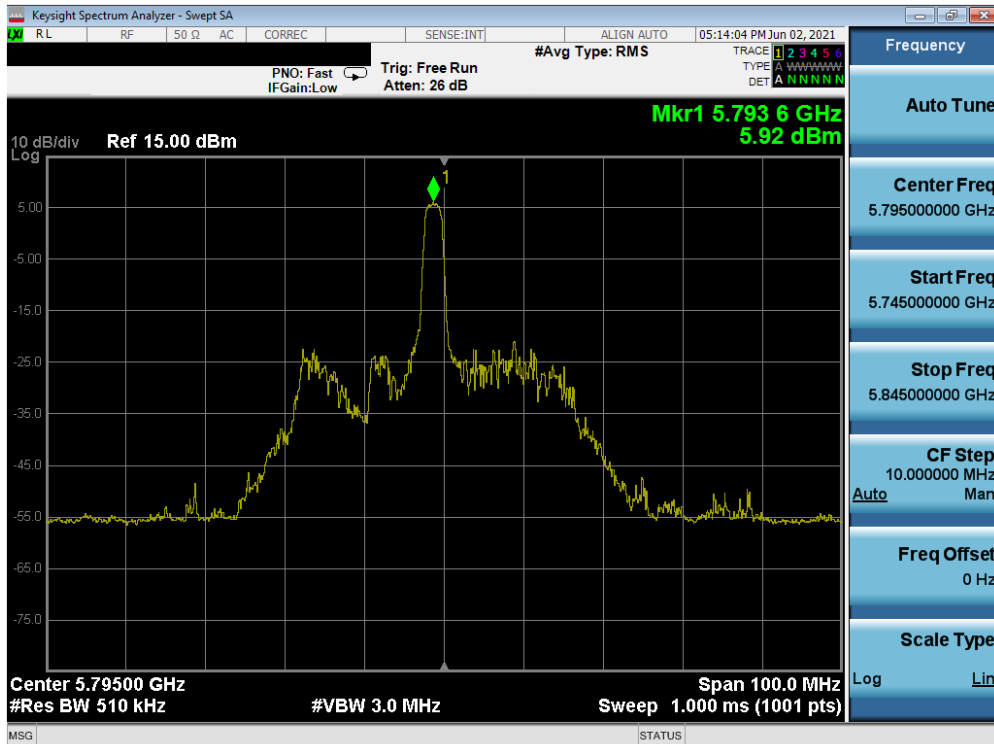
FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 149 of 216





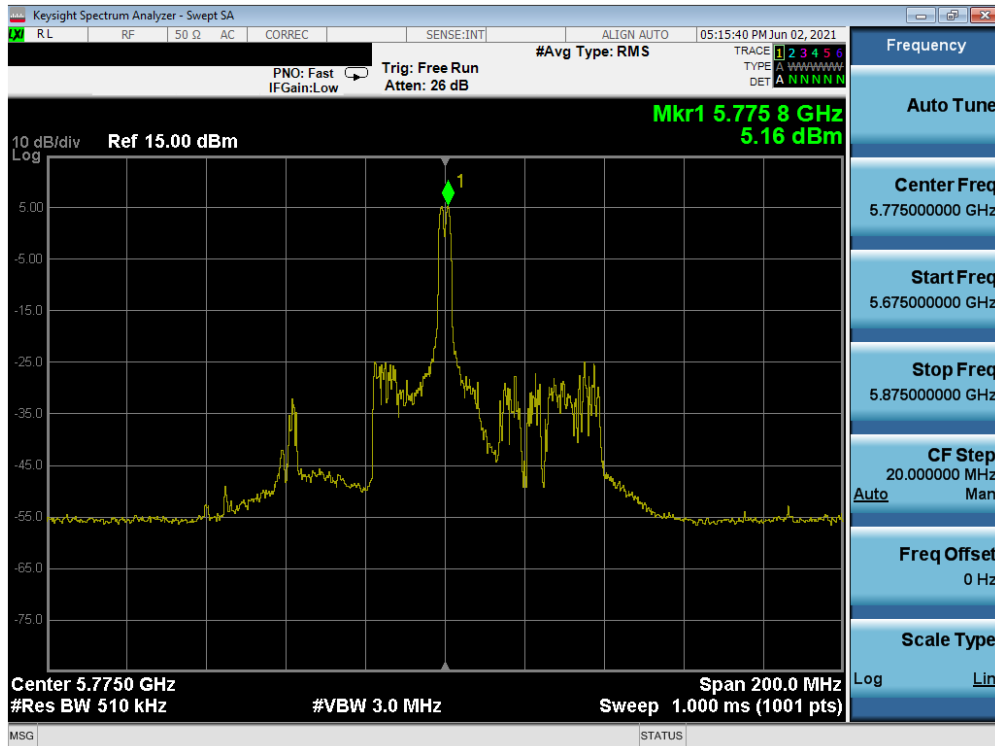


Plot 7-214. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)



Plot 7-215. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

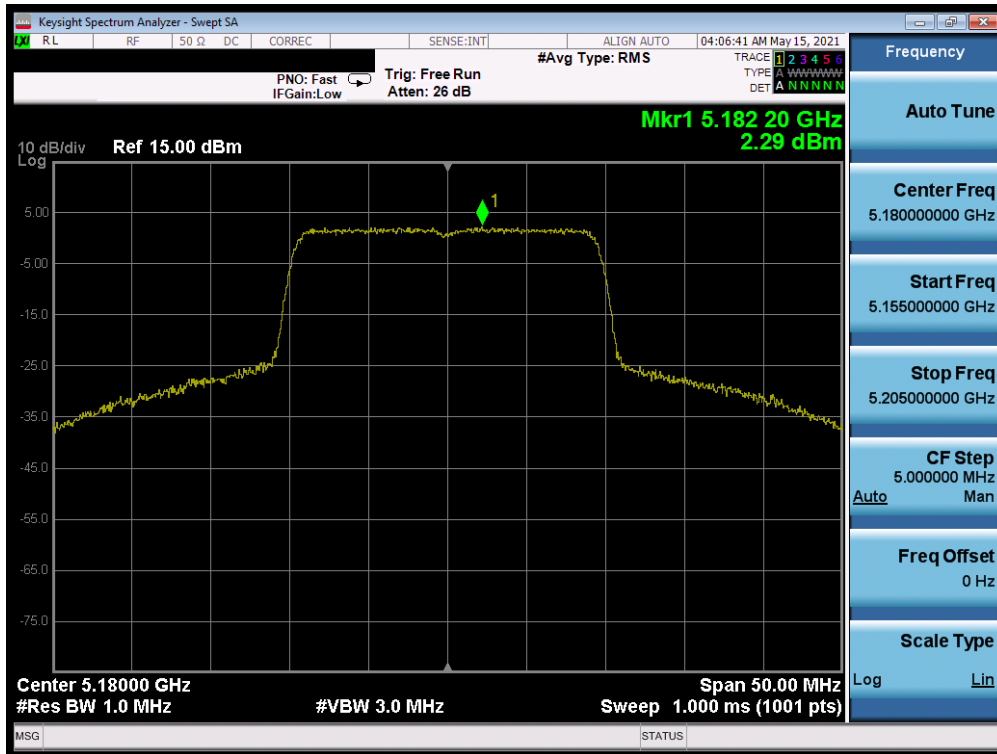
FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 151 of 216



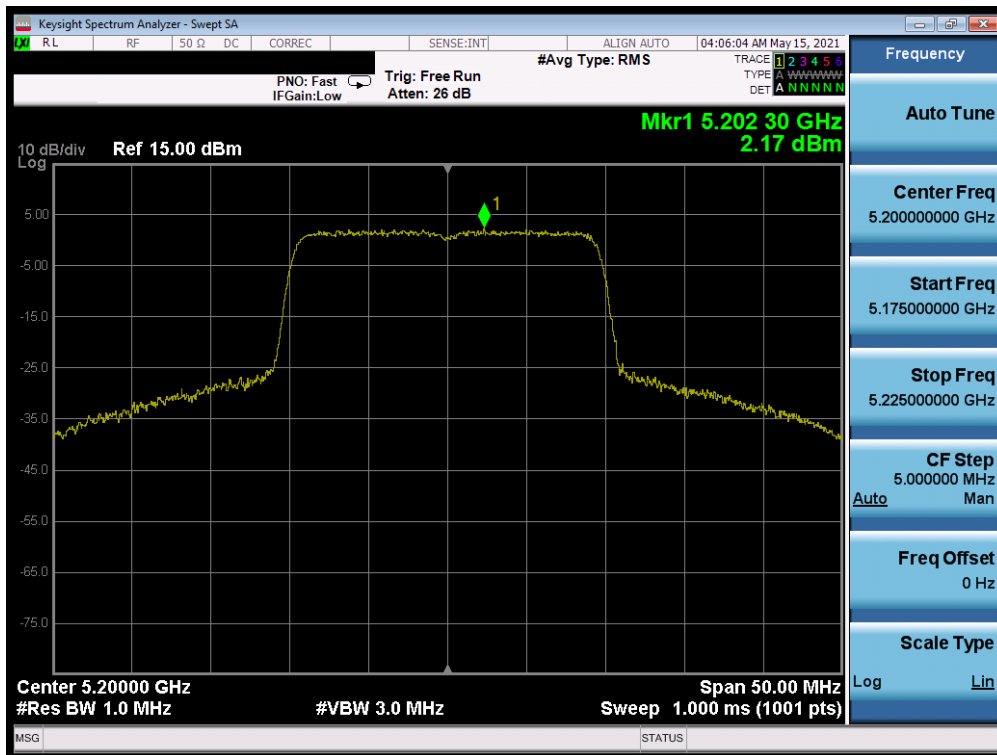
Plot 7-216. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 152 of 216

### MIMO Antenna-1 Power Spectral Density Measurements (Full Tones)



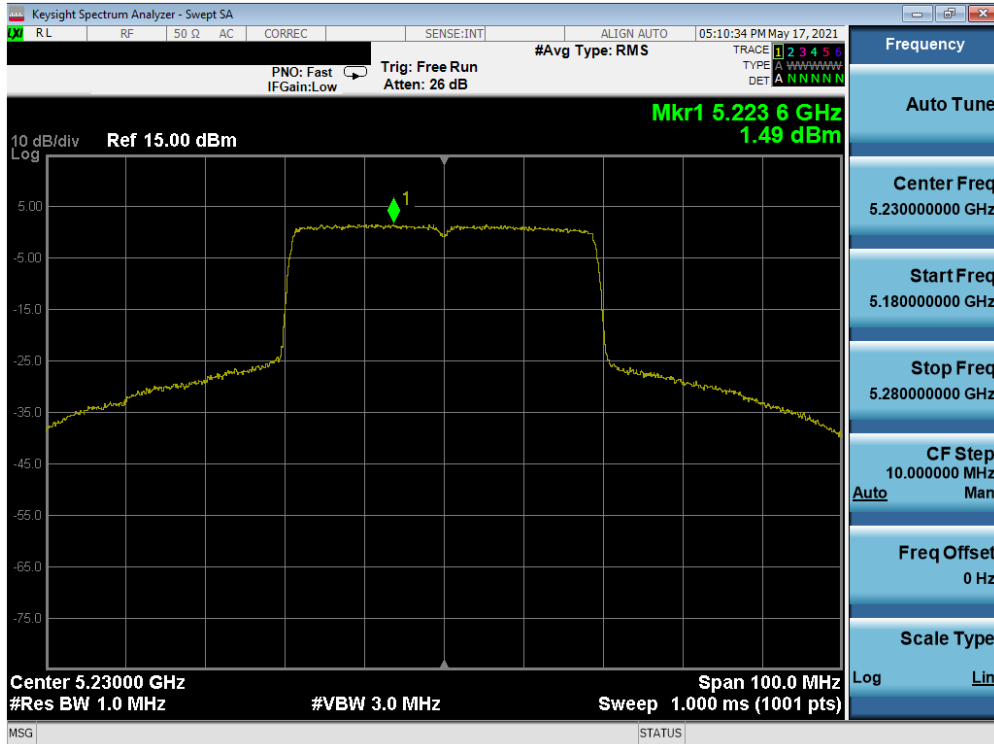
Plot 7-217. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)



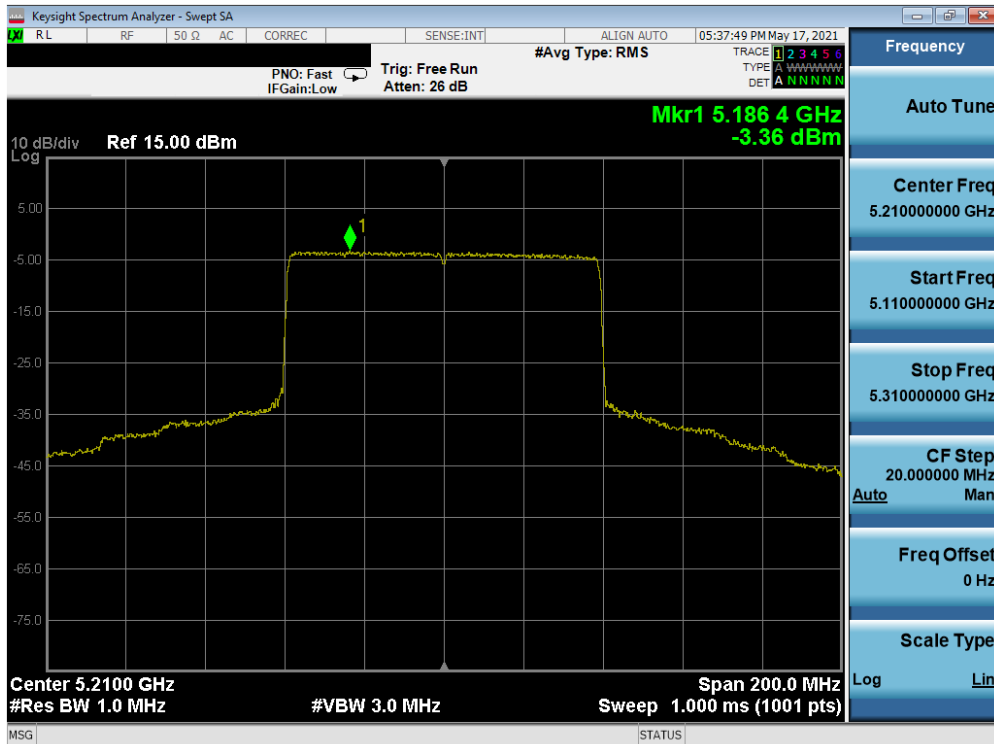
Plot 7-218. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 153 of 216



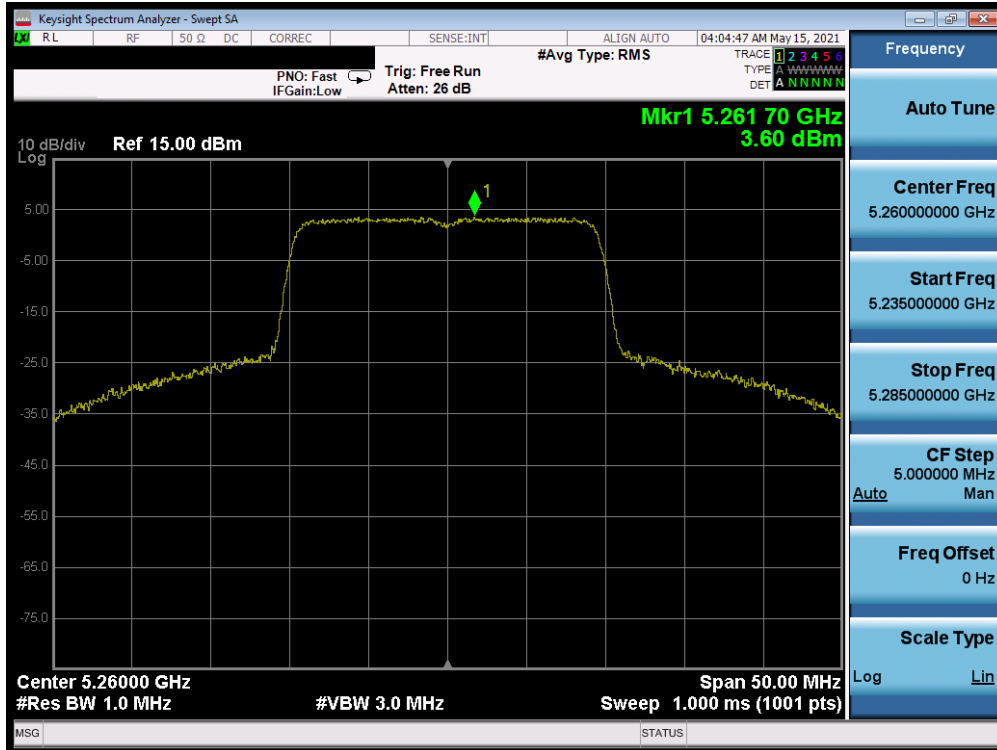


Plot 7-221. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

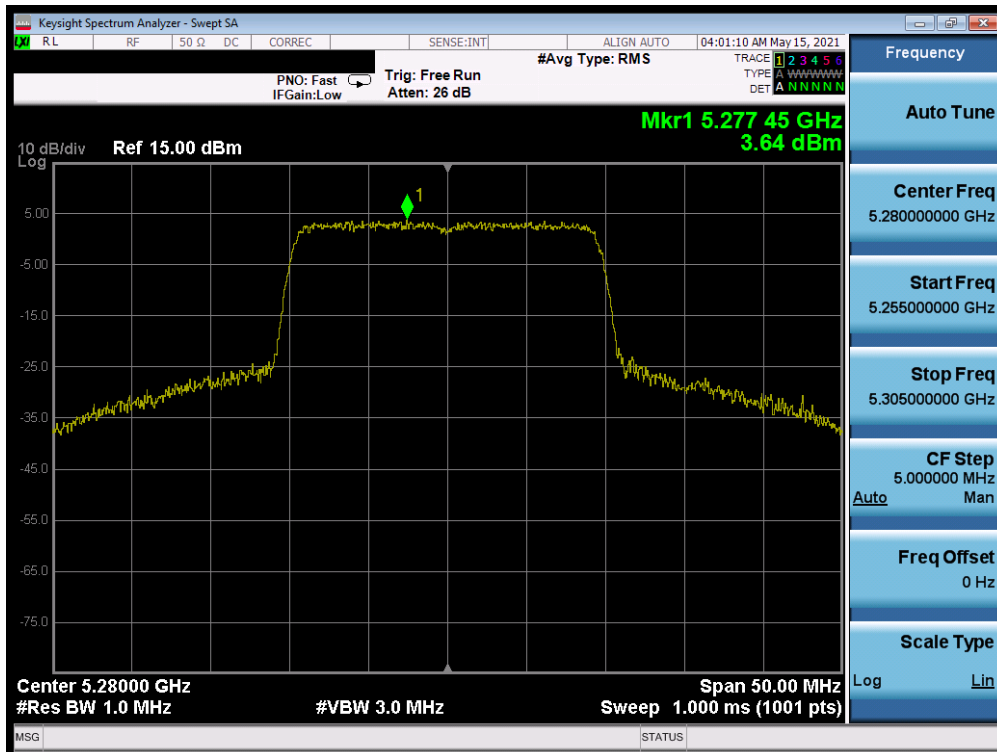


Plot 7-222. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 155 of 216

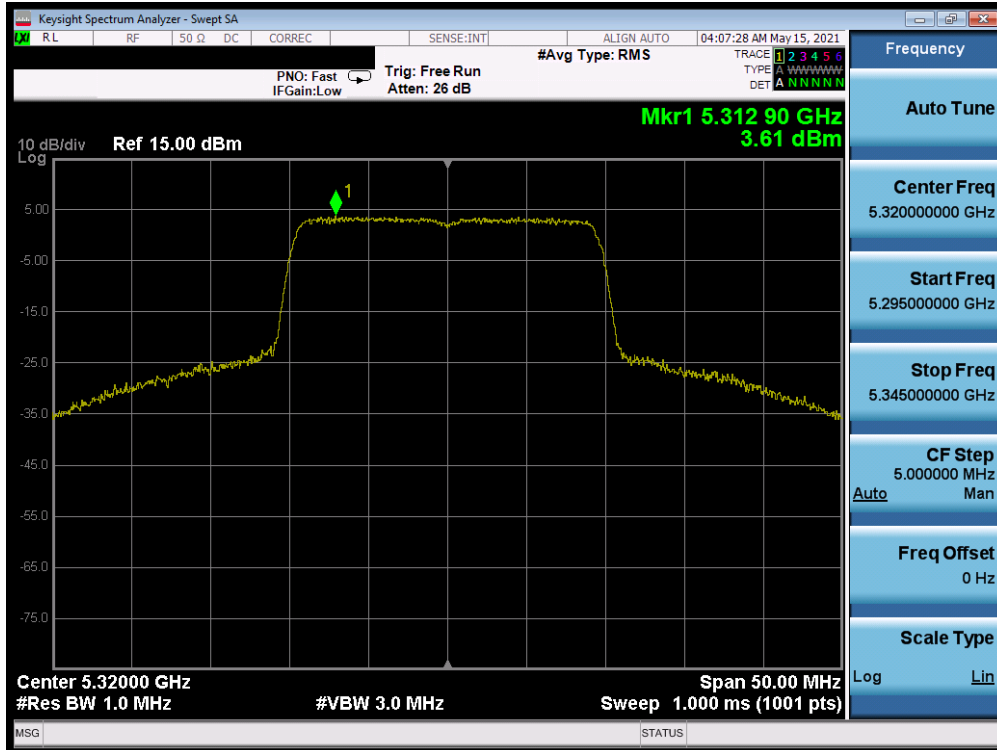


Plot 7-223. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

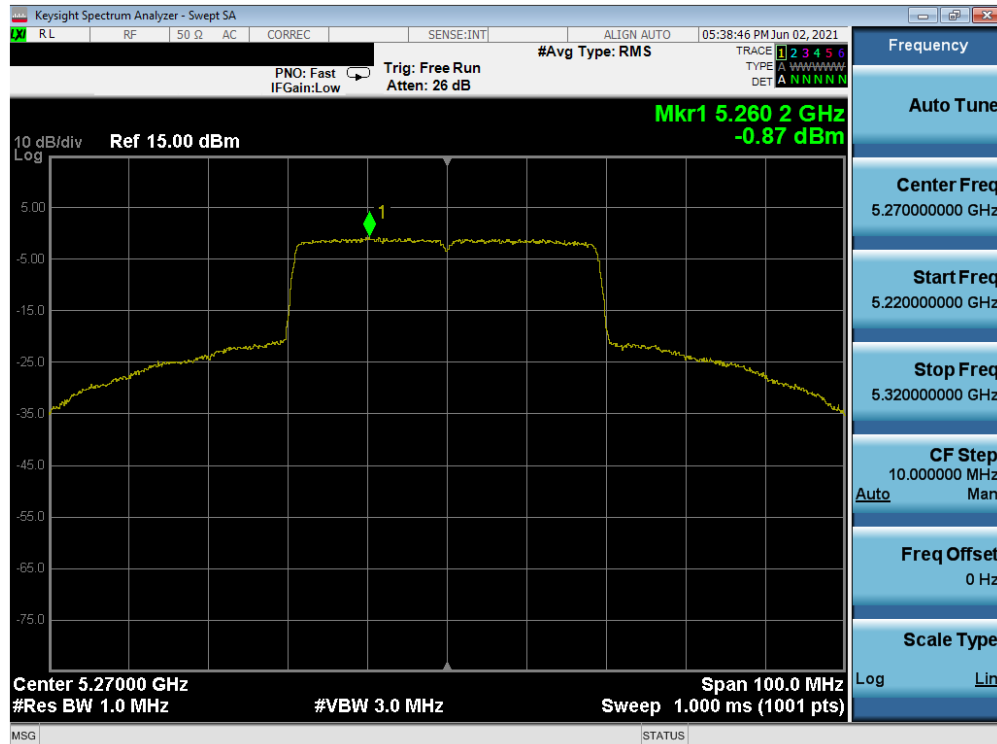


Plot 7-224. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 156 of 216

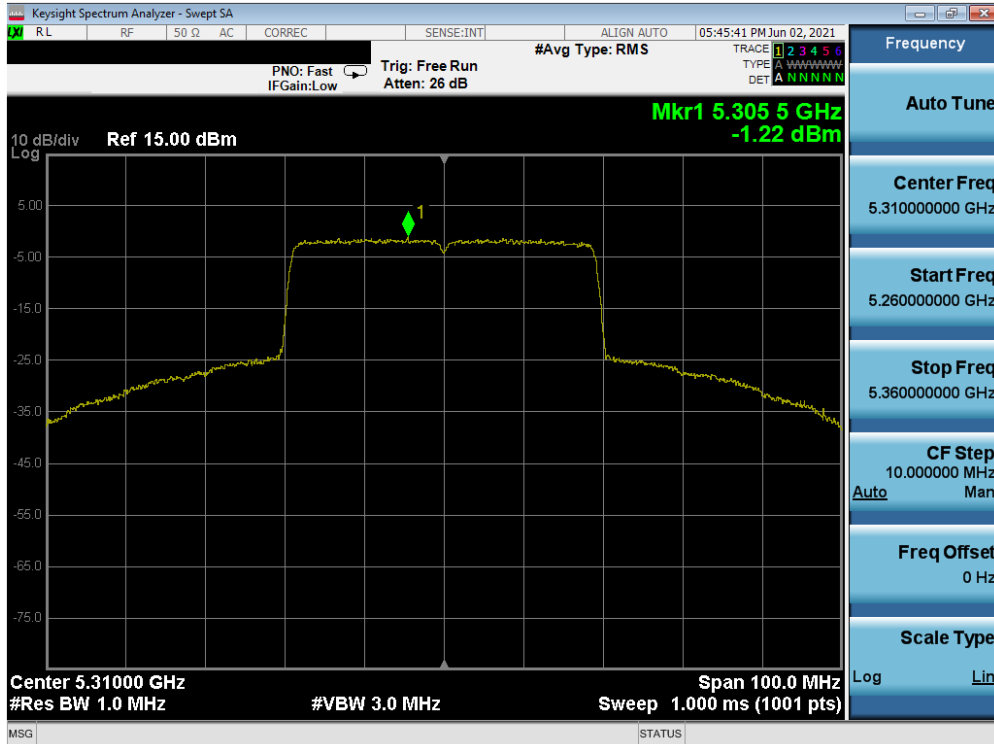


Plot 7-225. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

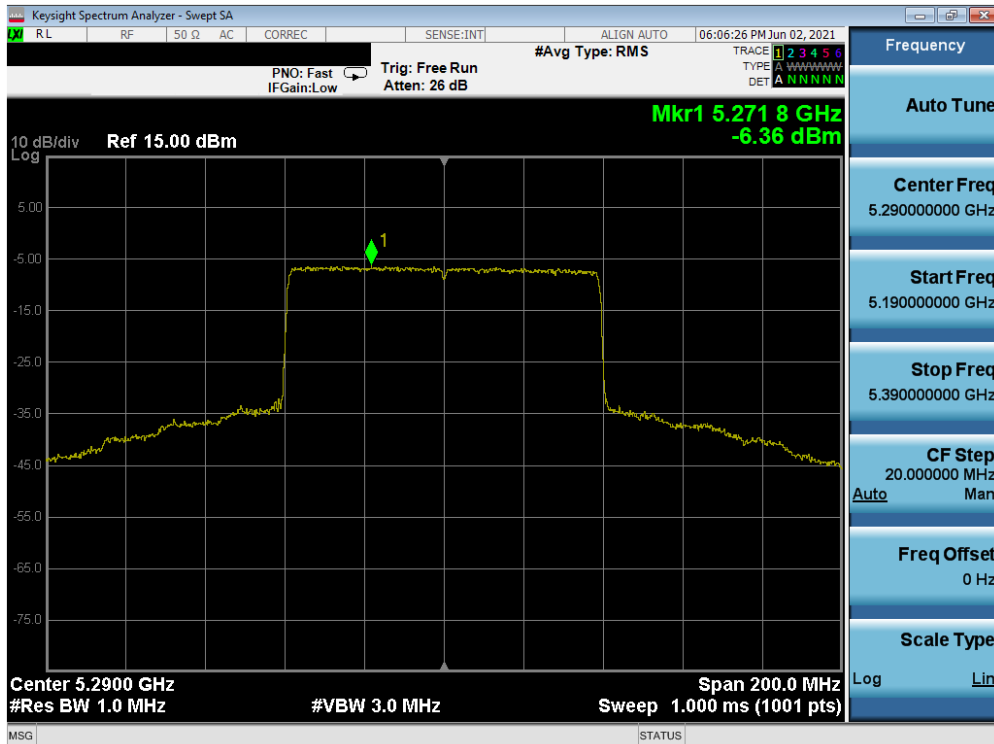


Plot 7-226. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 157 of 216



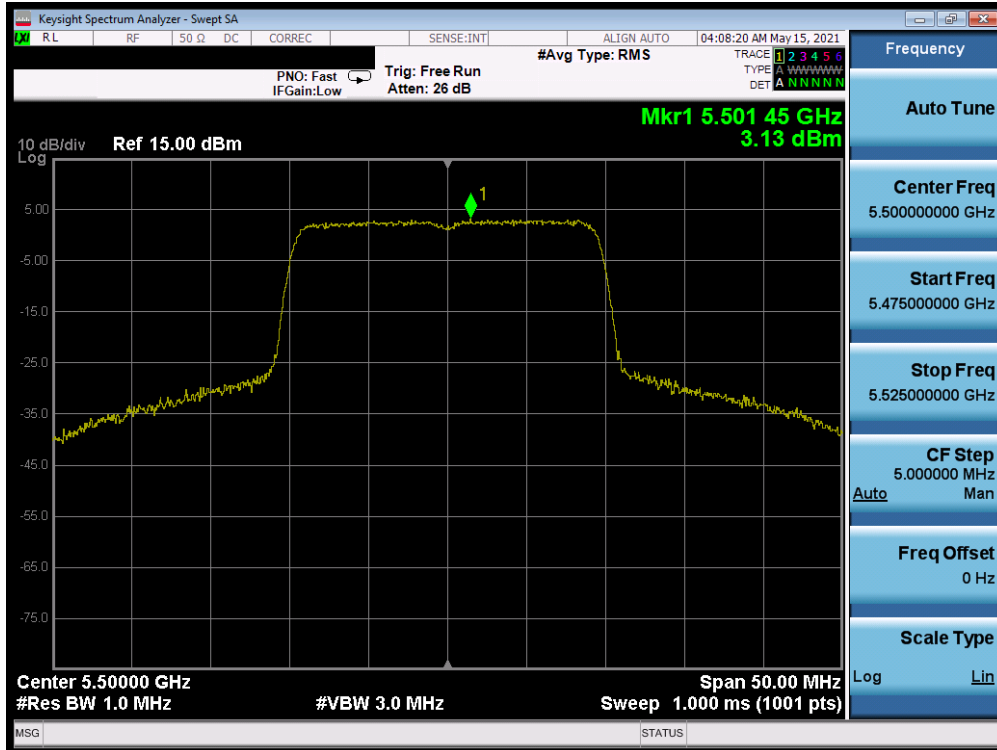
Plot 7-227. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)



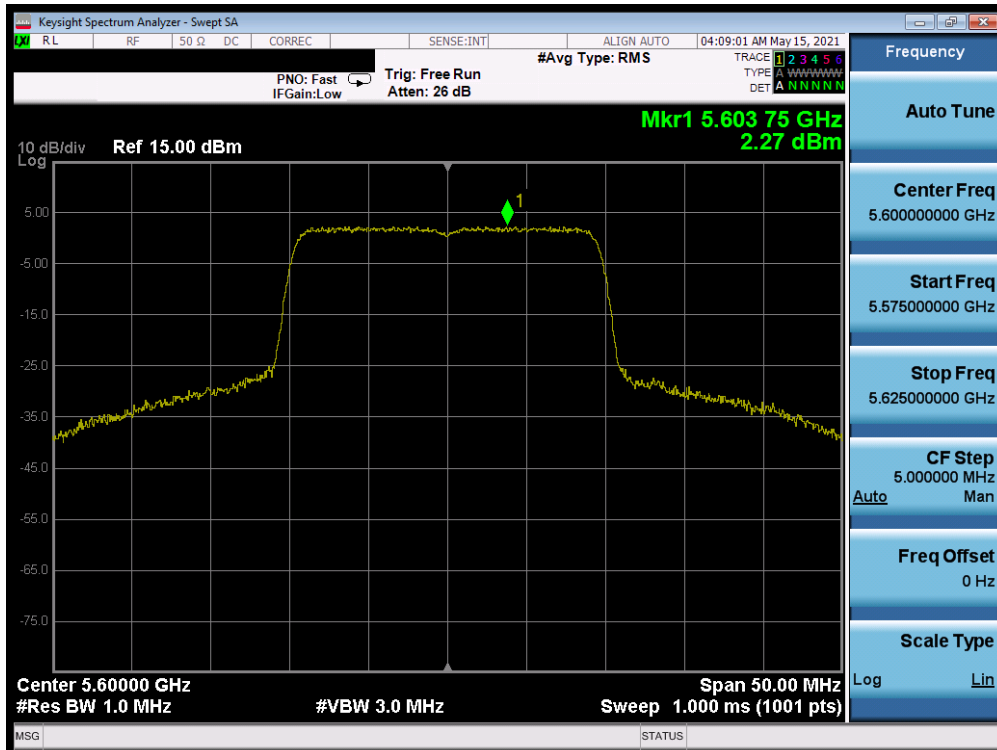
Plot 7-228. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711U1	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 158 of 216



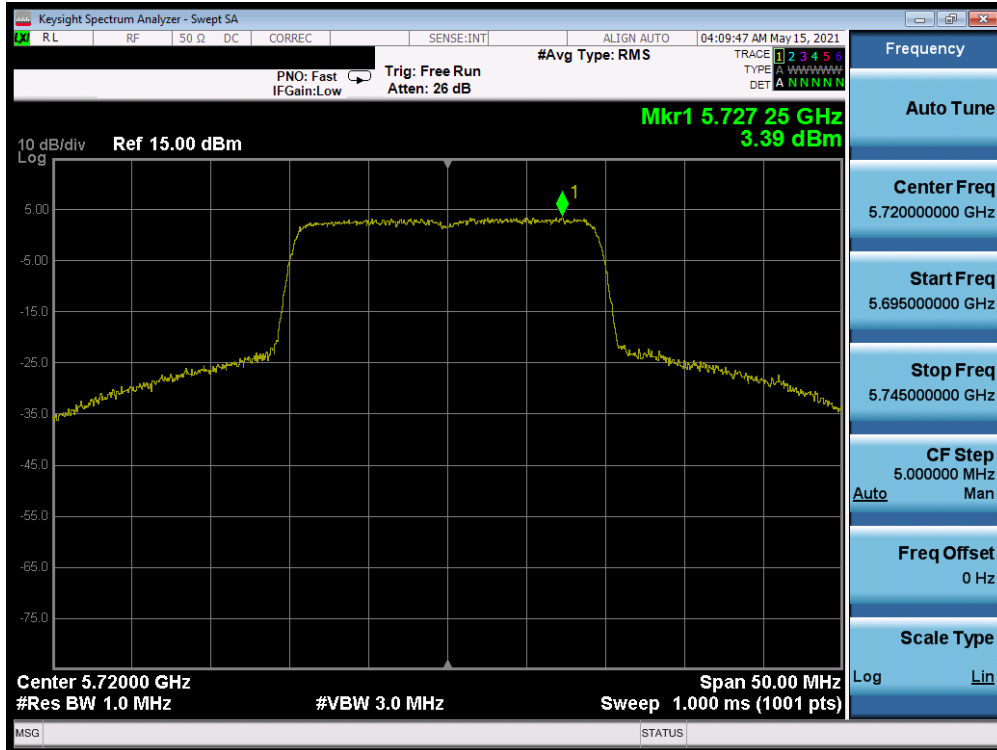


Plot 7-229. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

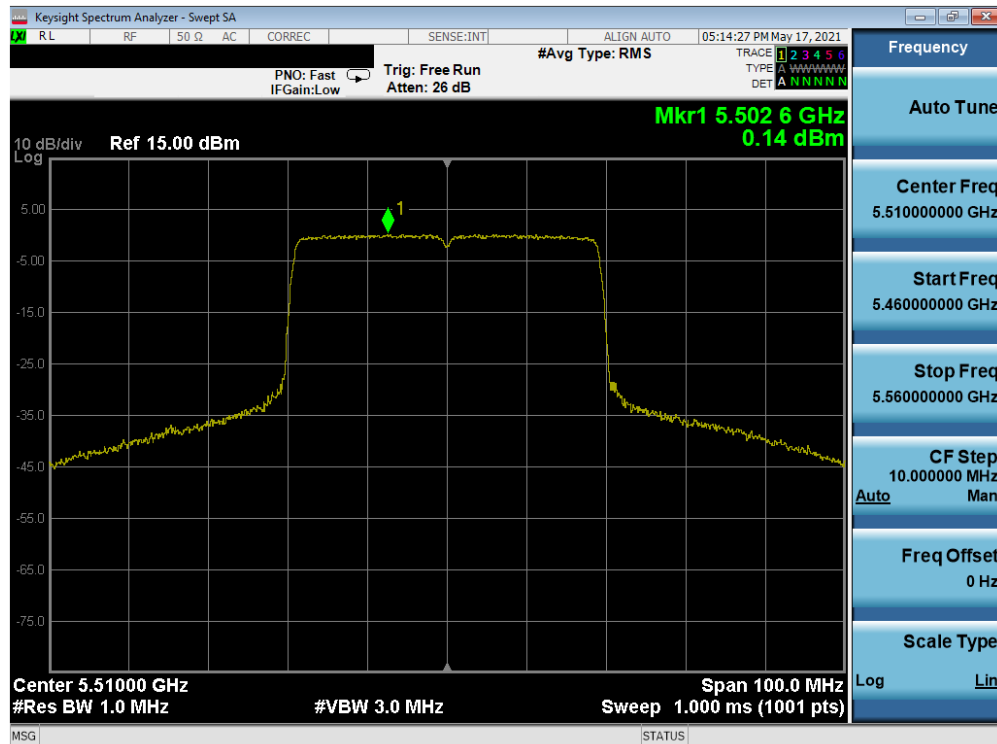


Plot 7-230. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 159 of 216

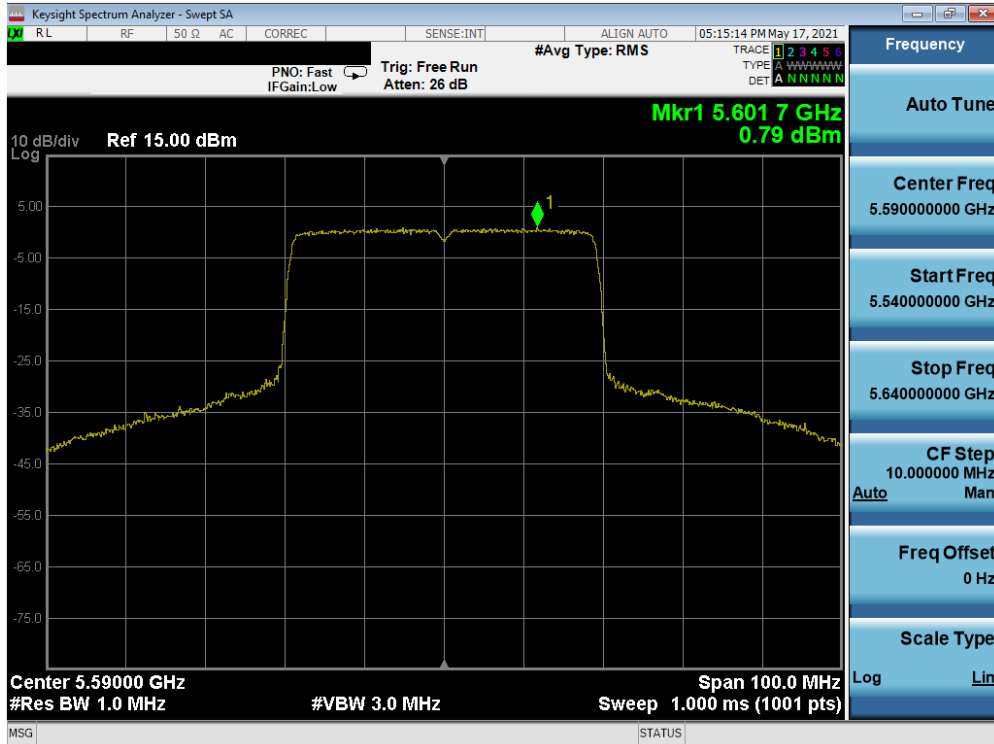


Plot 7-231. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

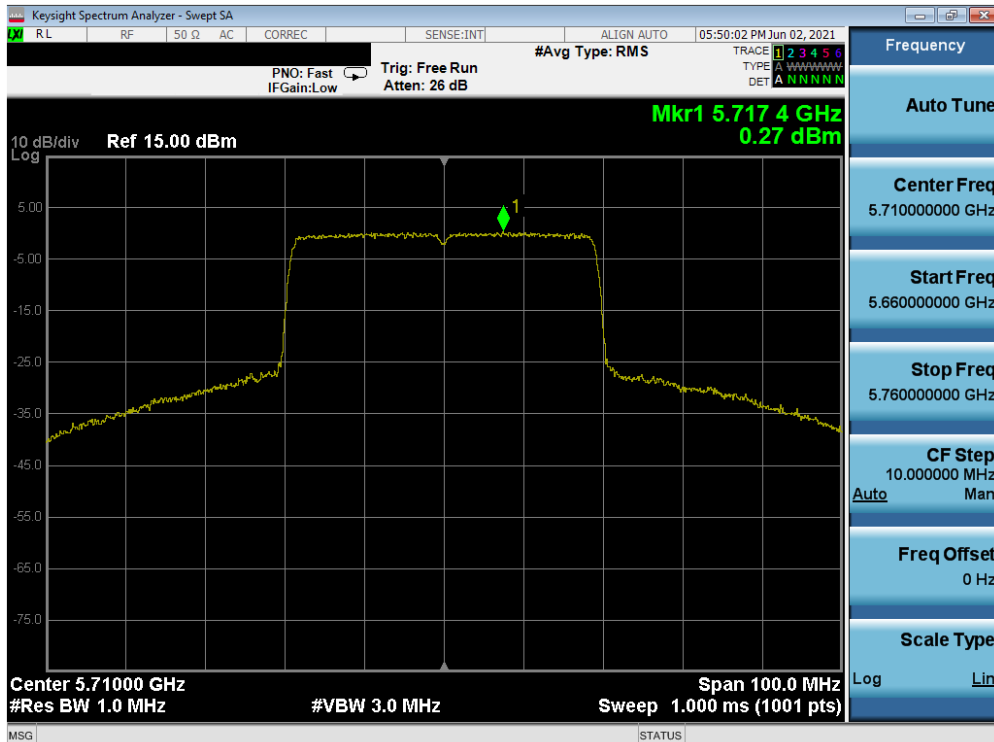


Plot 7-232. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 160 of 216

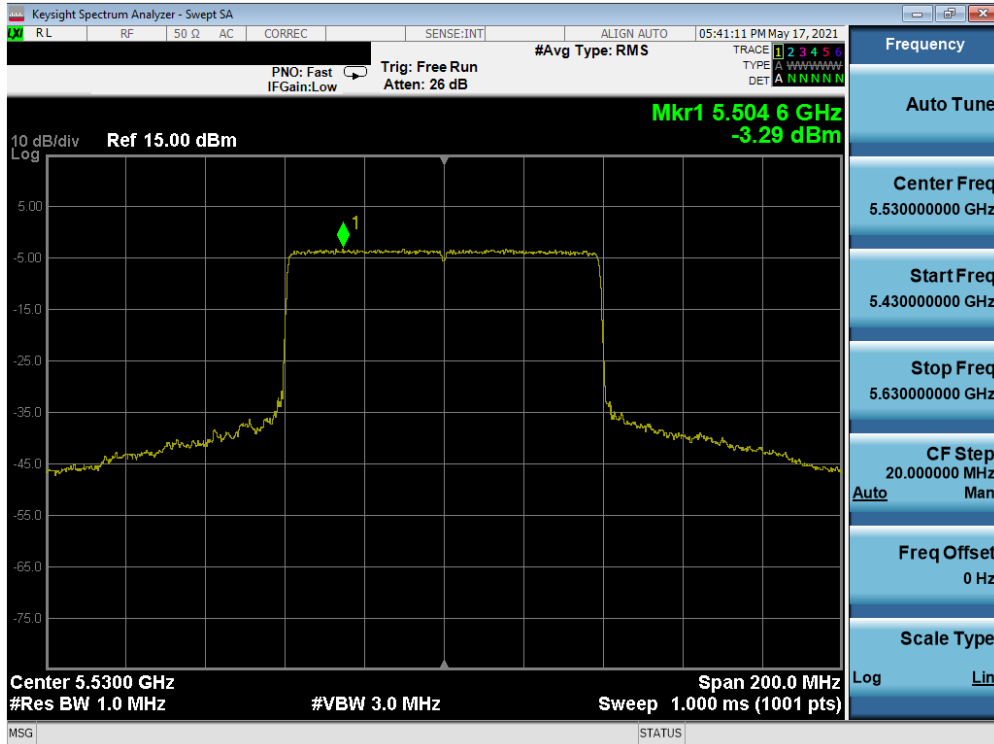


Plot 7-233. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

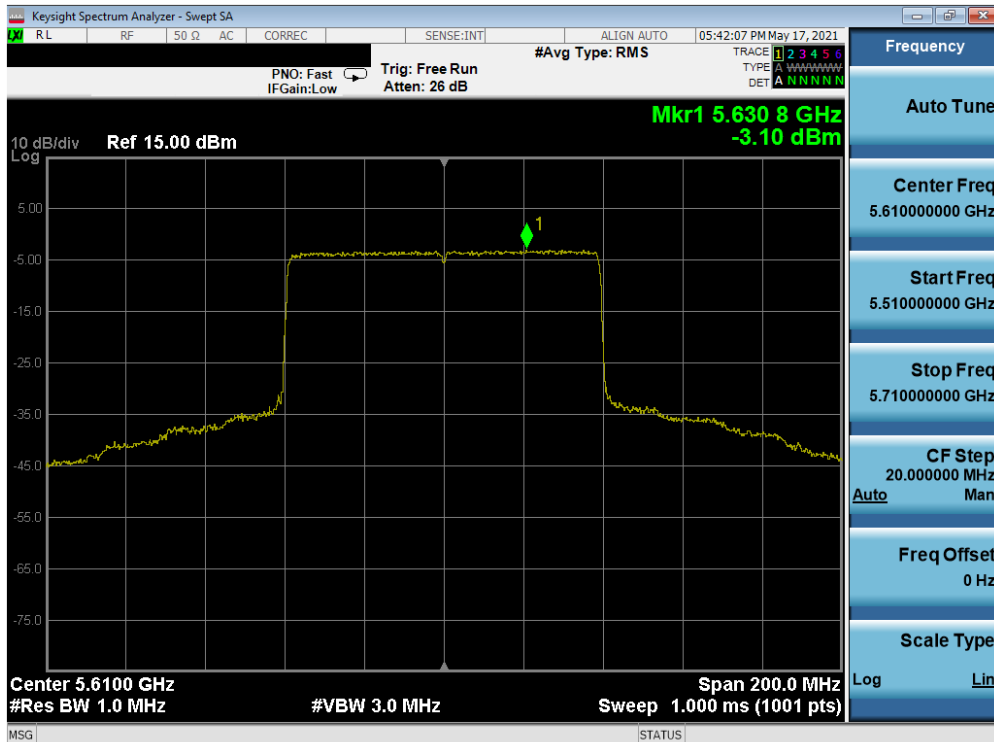


Plot 7-234. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 161 of 216

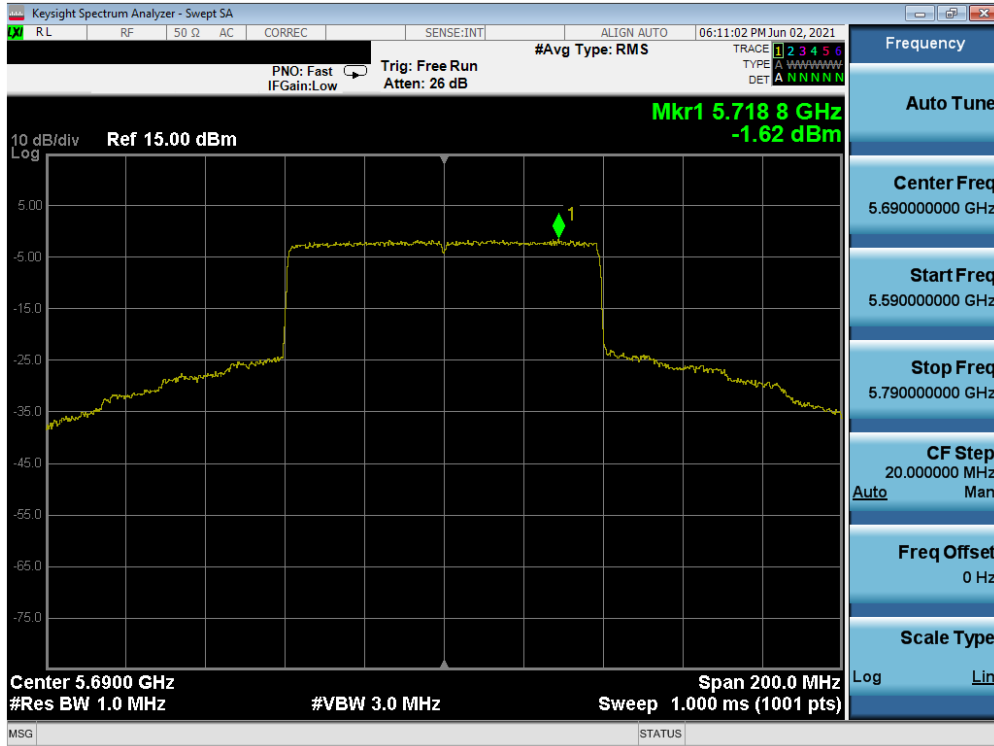


Plot 7-235. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

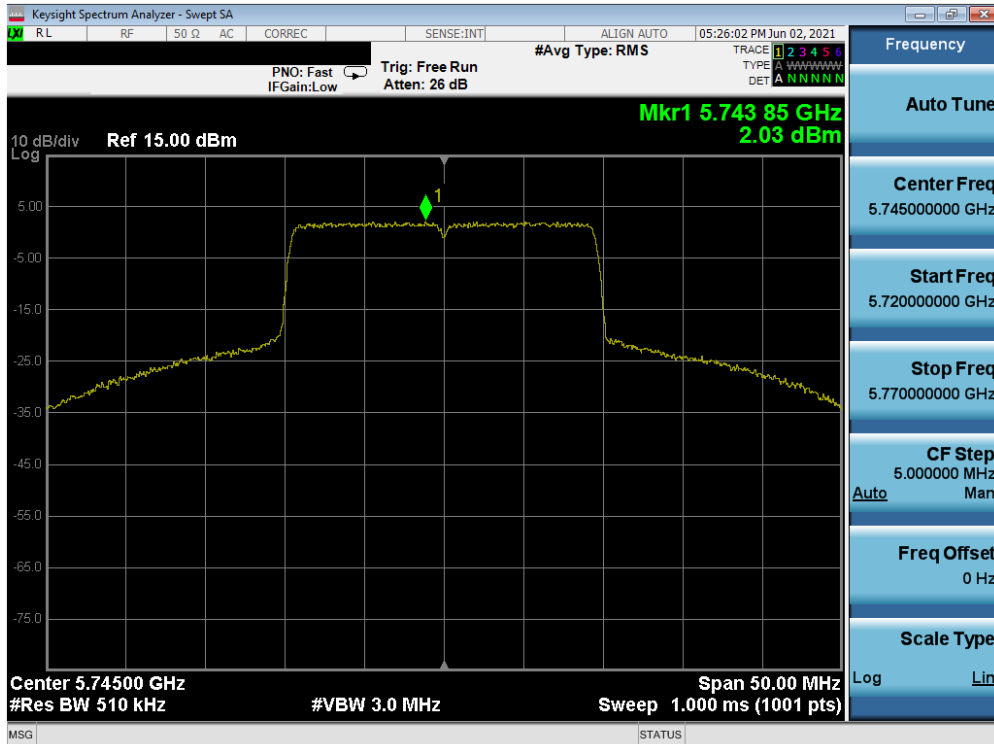


Plot 7-236. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 162 of 216

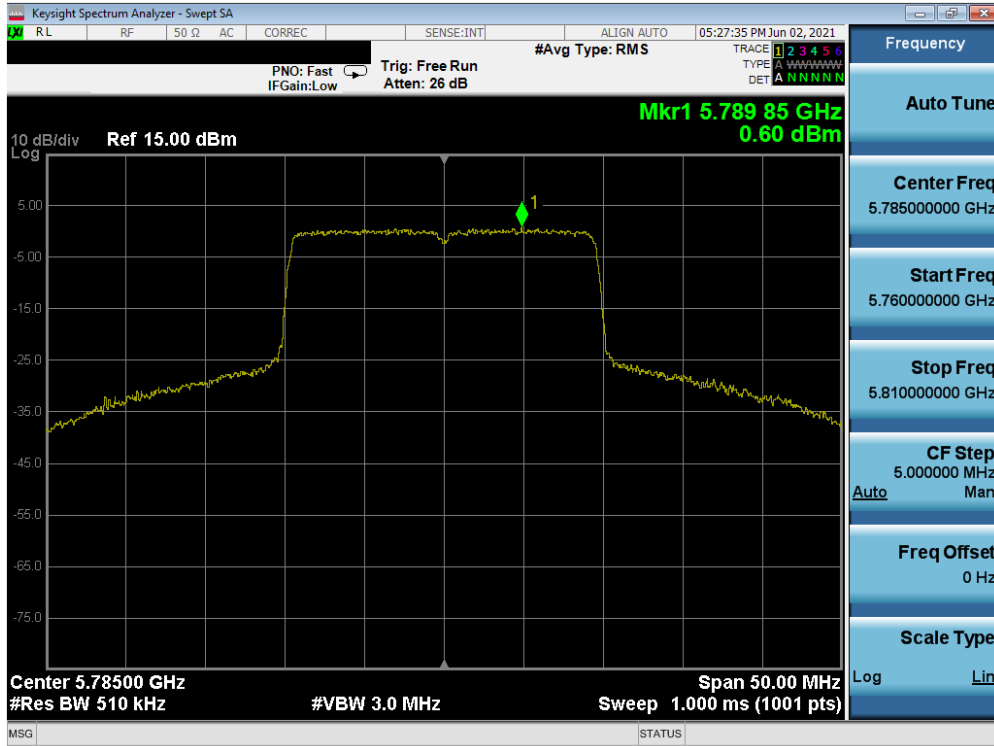


Plot 7-237. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

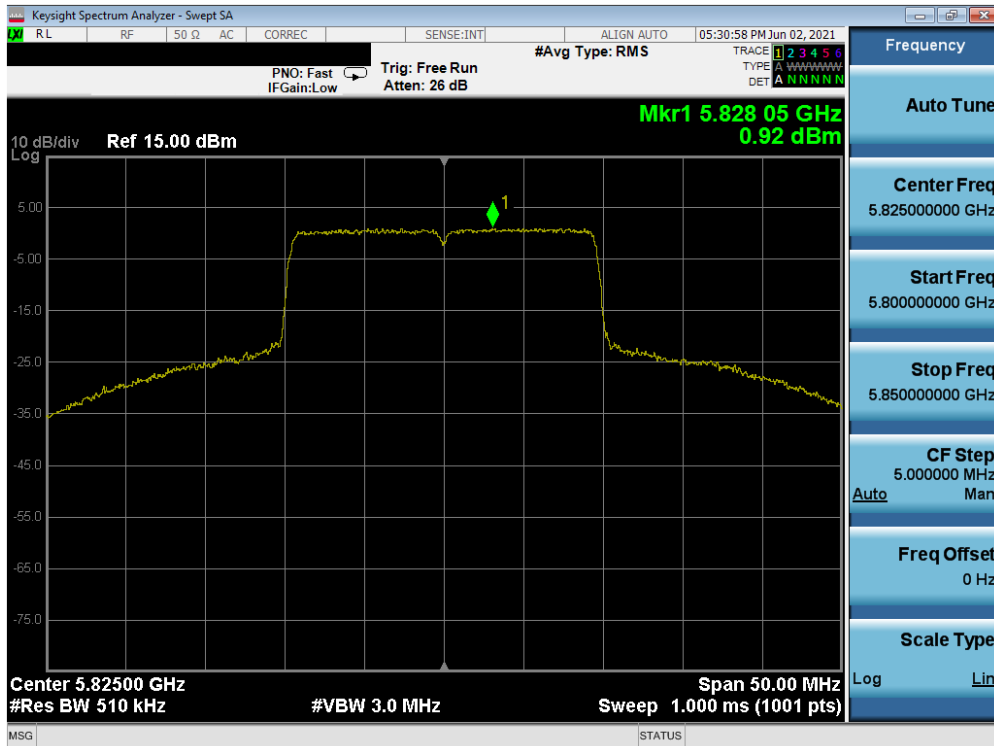


Plot 7-238. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 163 of 216



Plot 7-239. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)



Plot 7-240. Power Spectral Density Plot MIMO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711U1	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2107290086-12.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 164 of 216