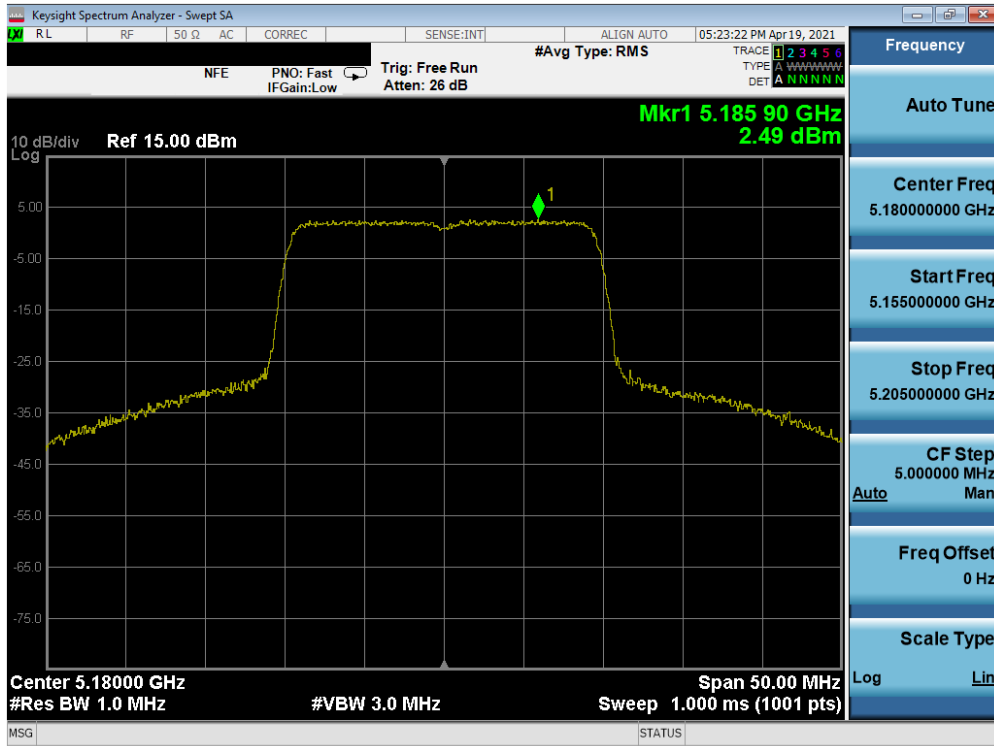
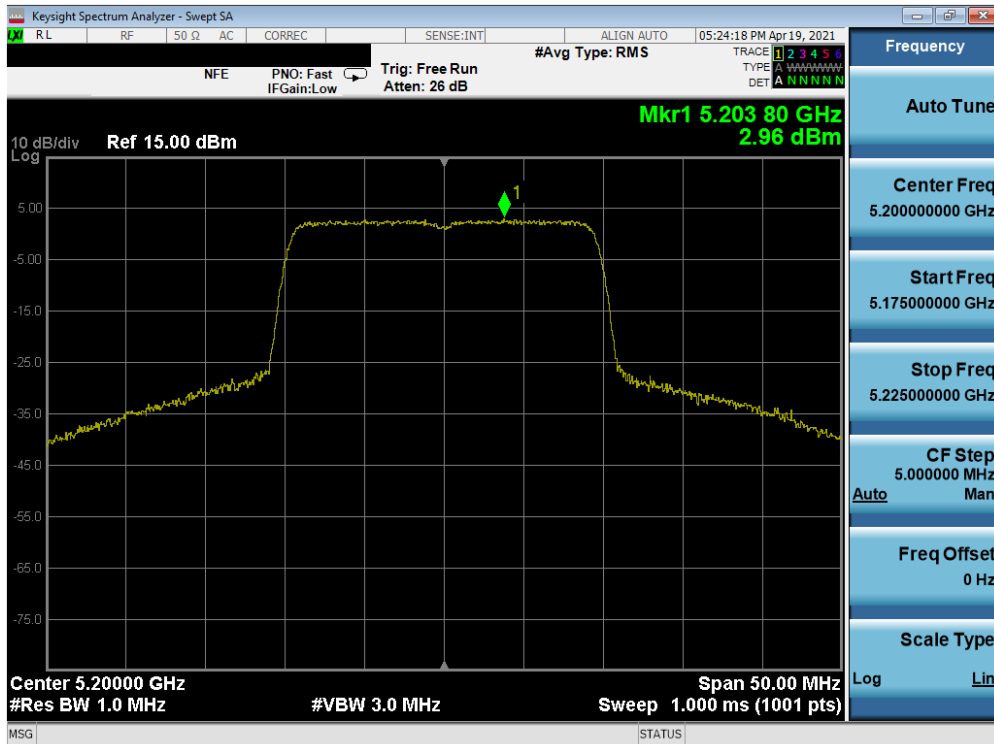


SISO ANT 1 Power Spectral Density Measurements (Full Tones) – N

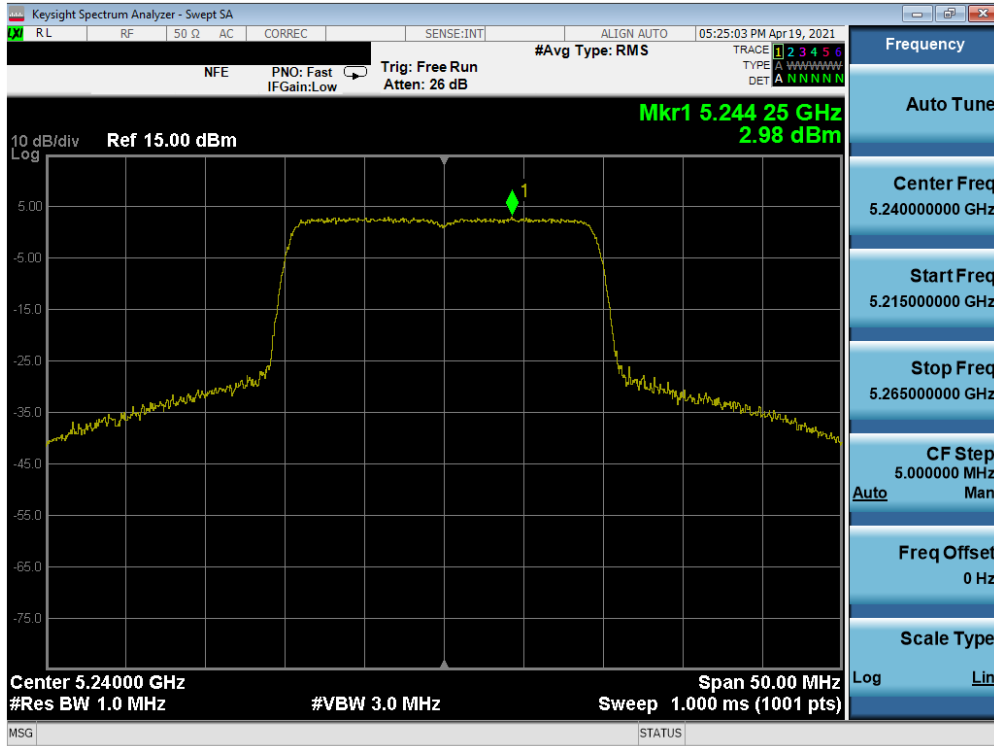


Plot 7-244. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

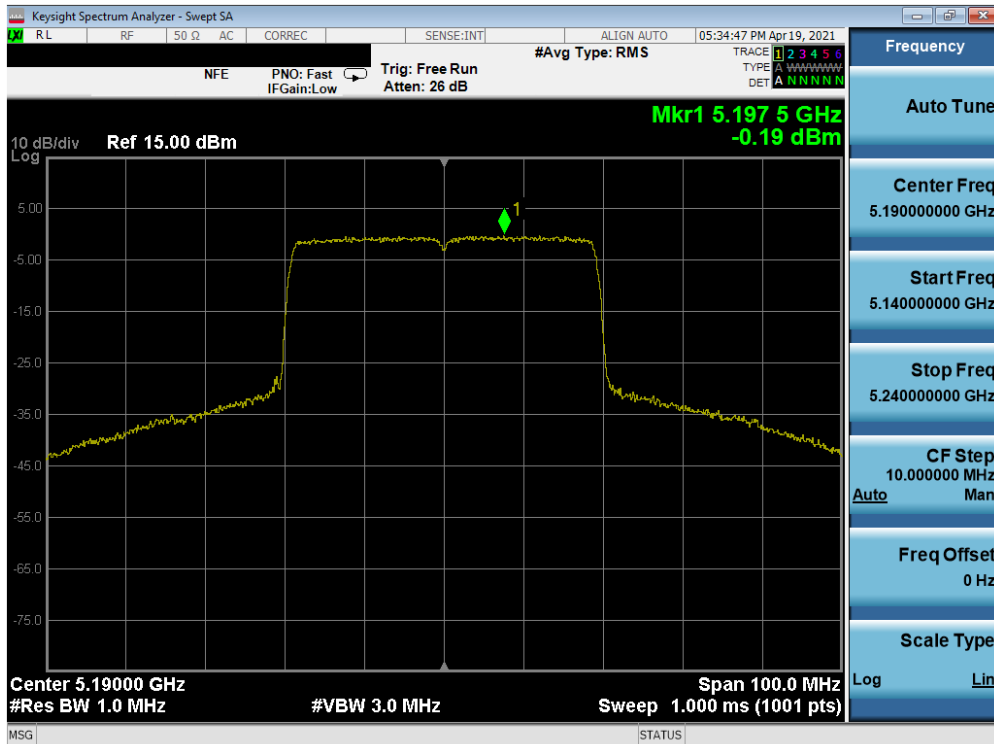


Plot 7-245. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 186 of 413

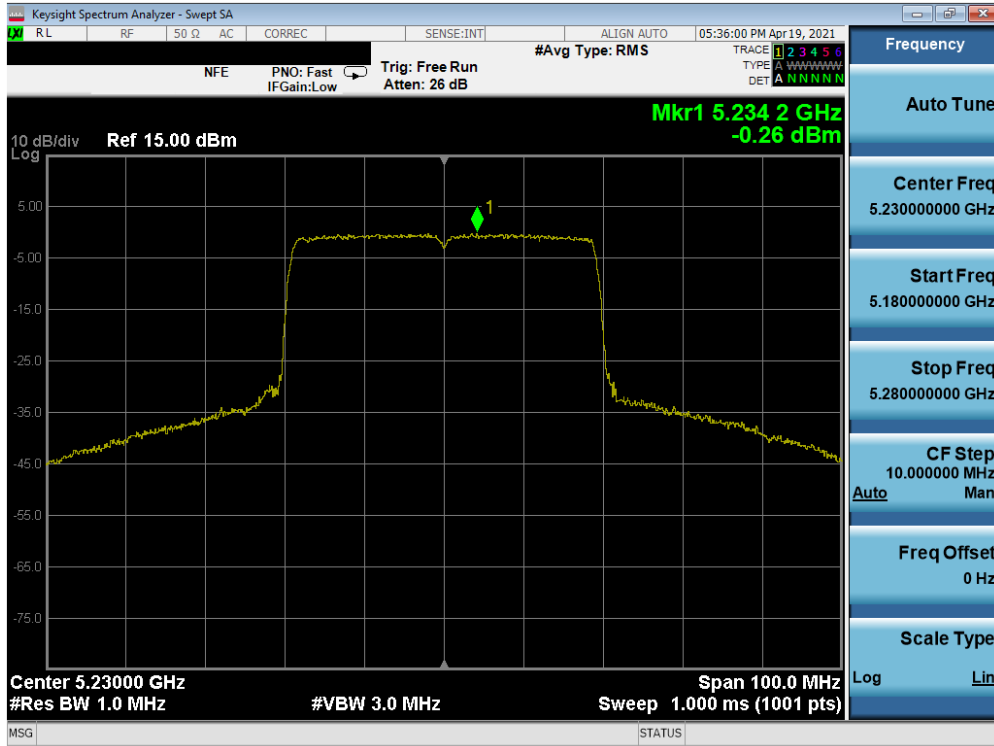


Plot 7-246. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

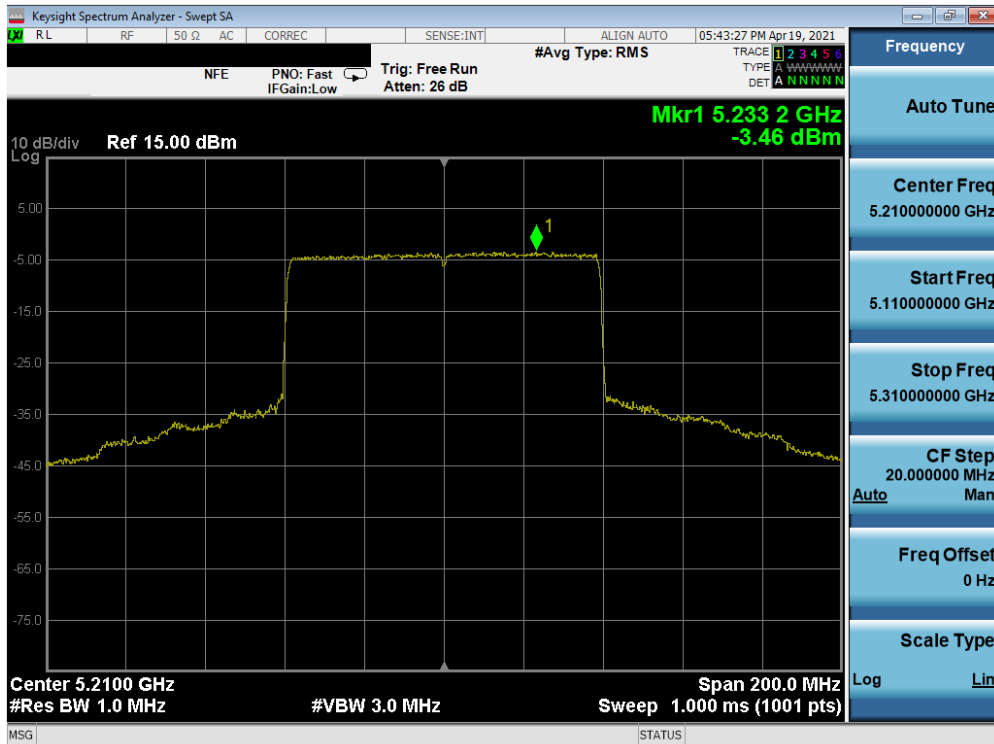


Plot 7-247. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 187 of 413

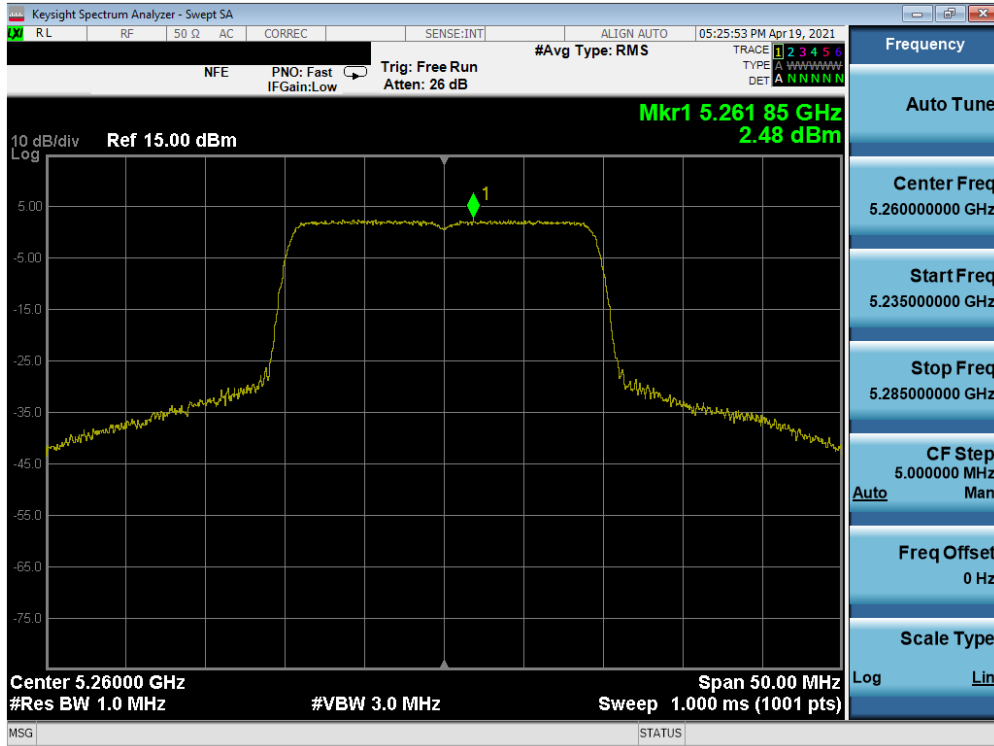


Plot 7-248. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

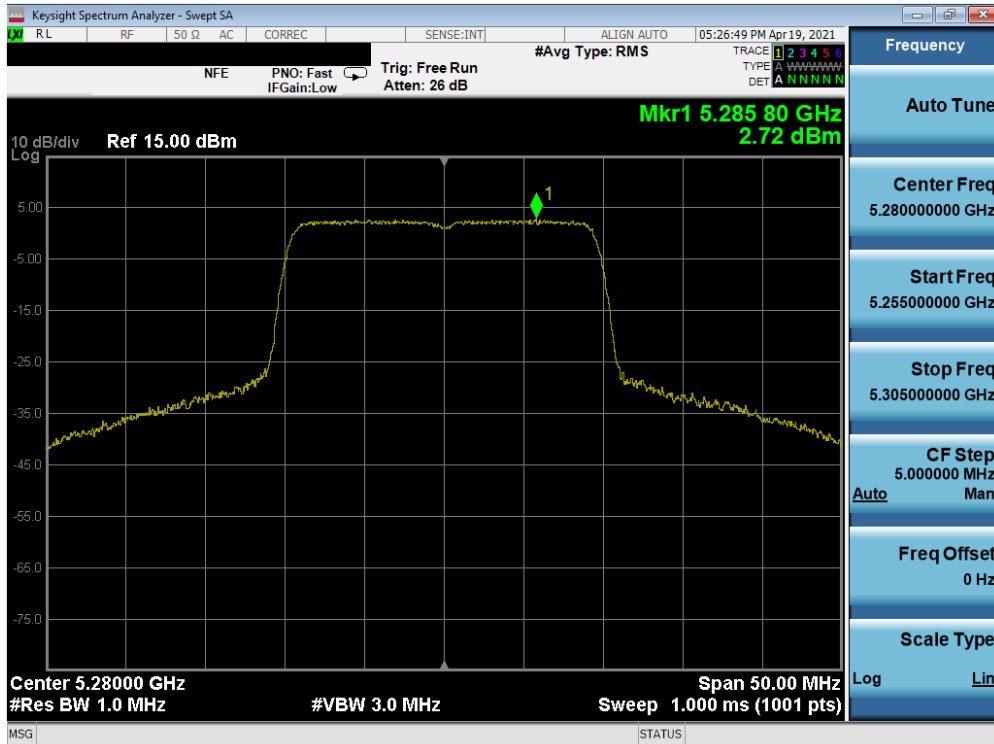


Plot 7-249. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 188 of 413

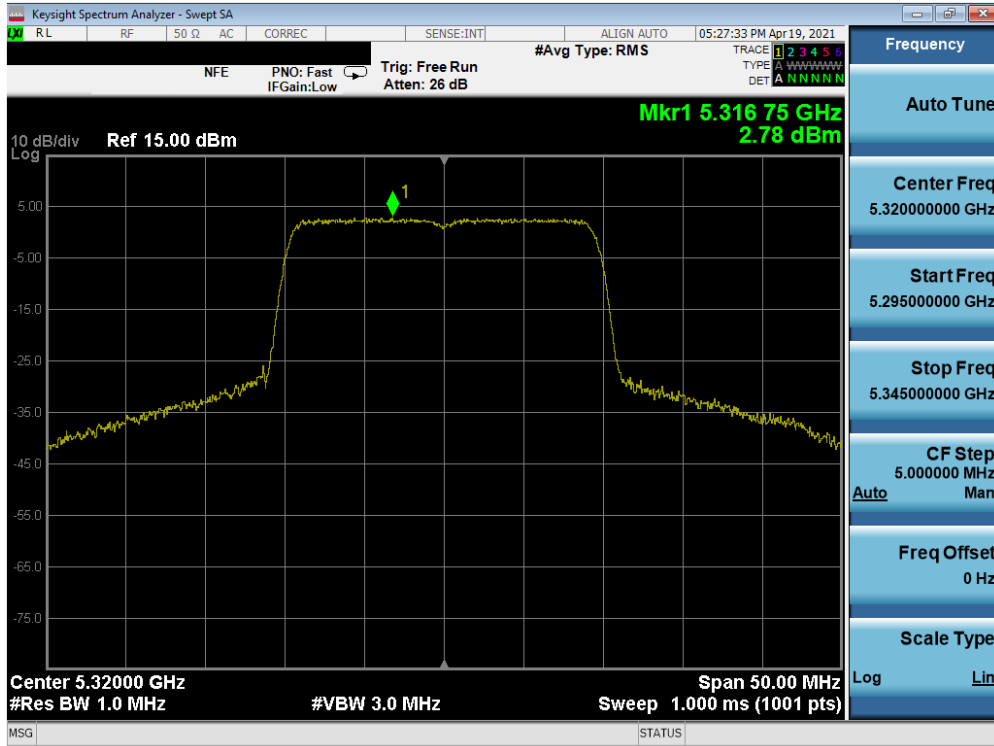


Plot 7-250. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

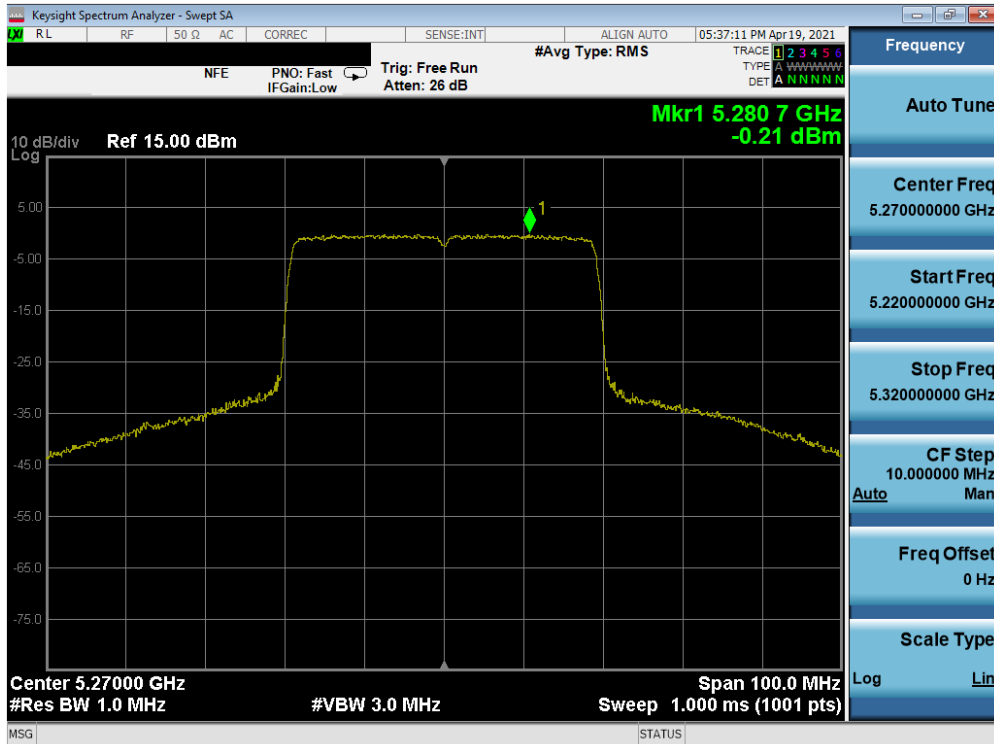


Plot 7-251. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 189 of 413

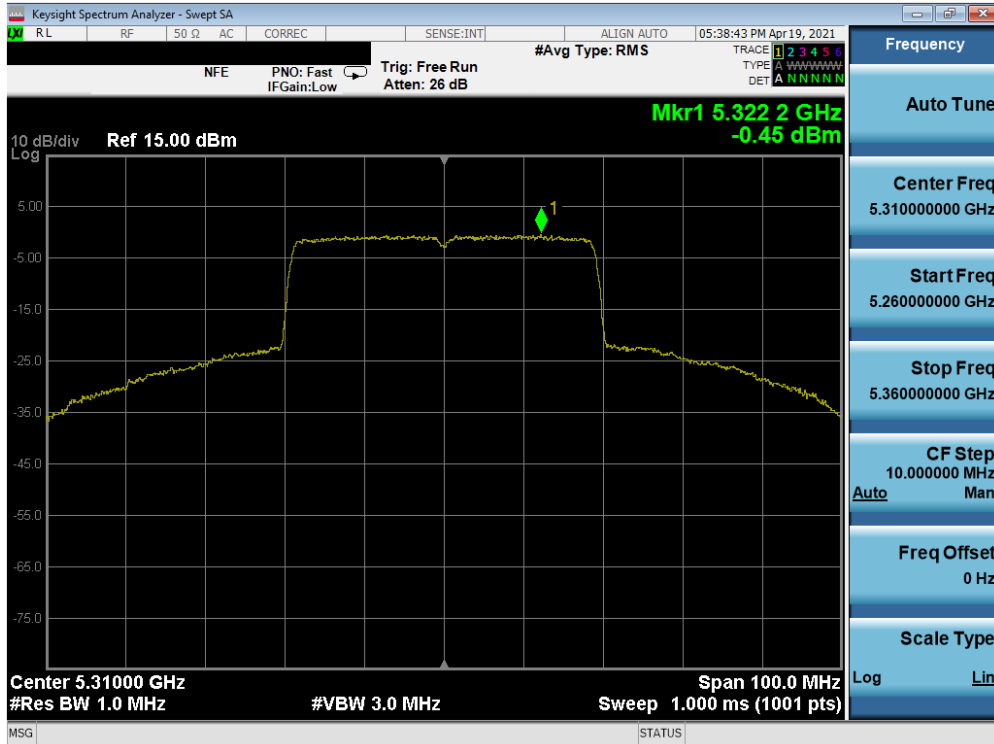


Plot 7-252. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

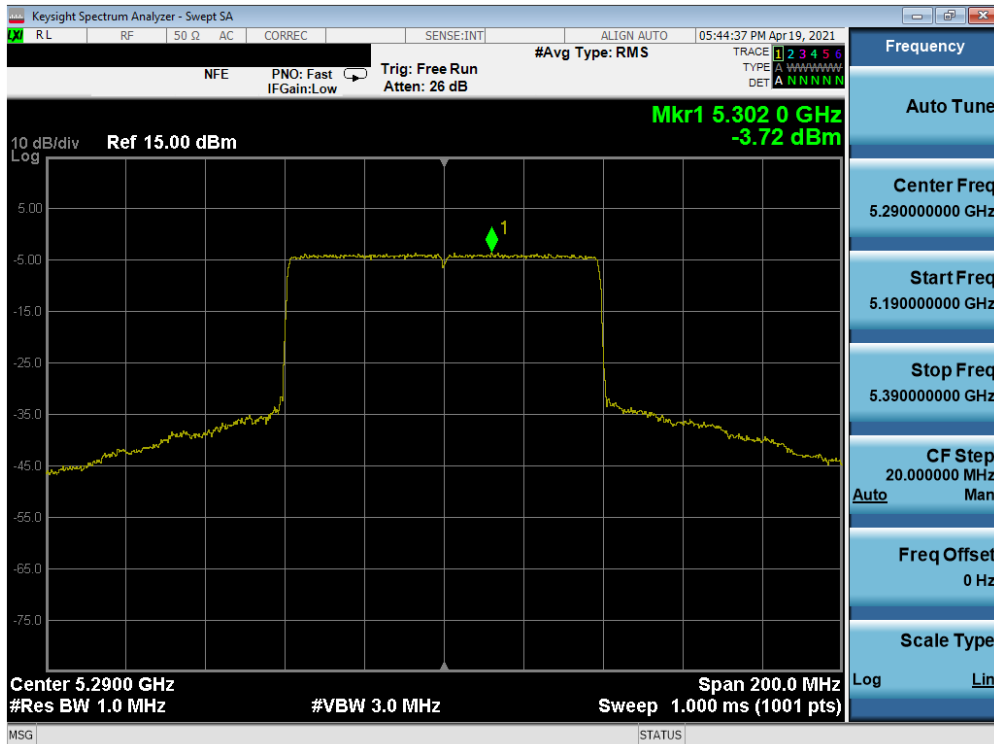


Plot 7-253. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 190 of 413

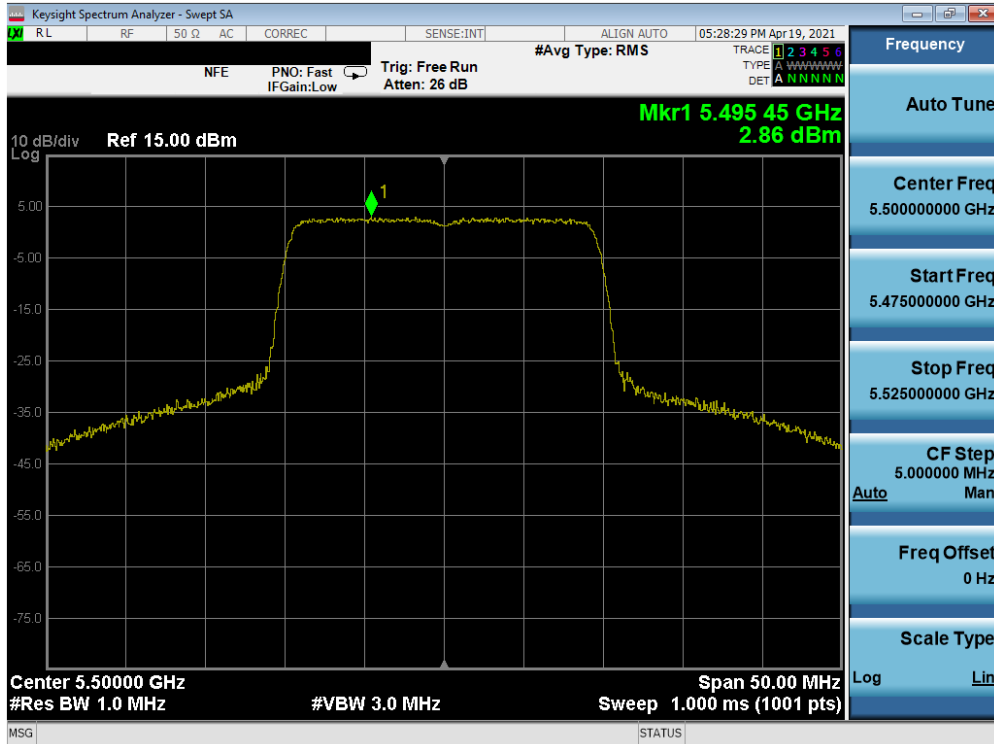


Plot 7-254. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

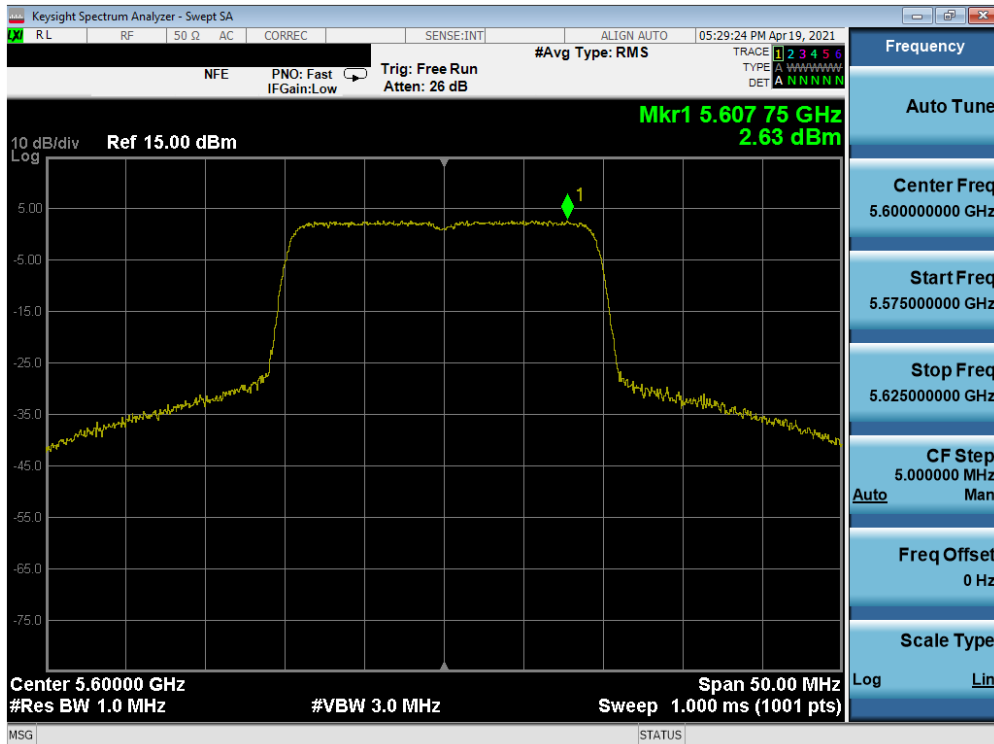


Plot 7-255. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 191 of 413

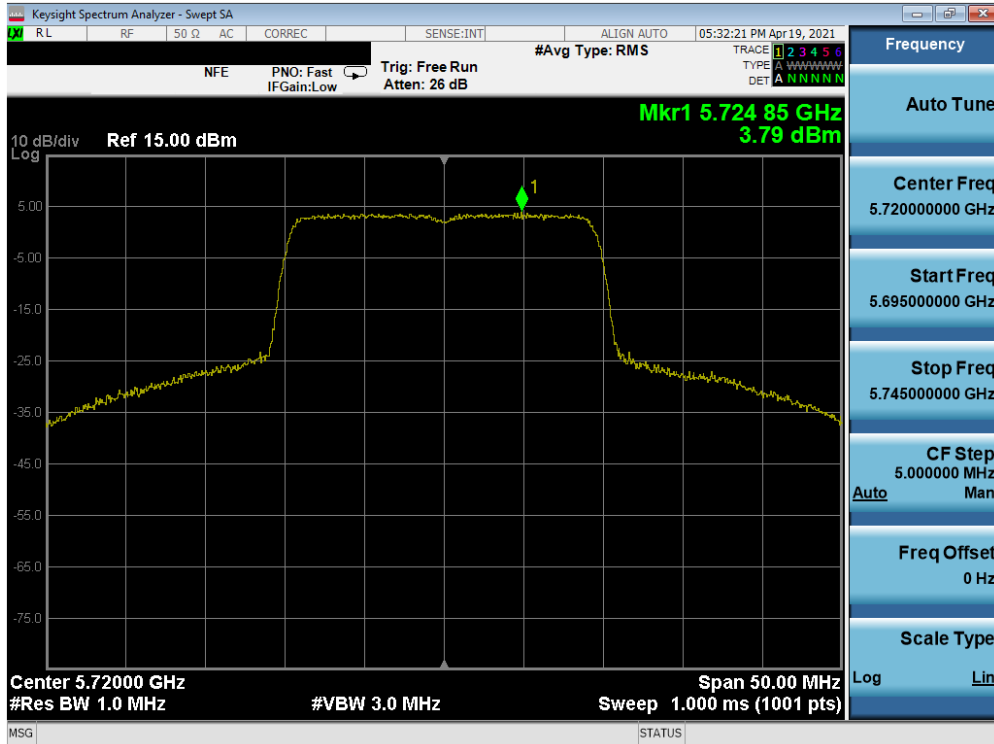


Plot 7-256. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

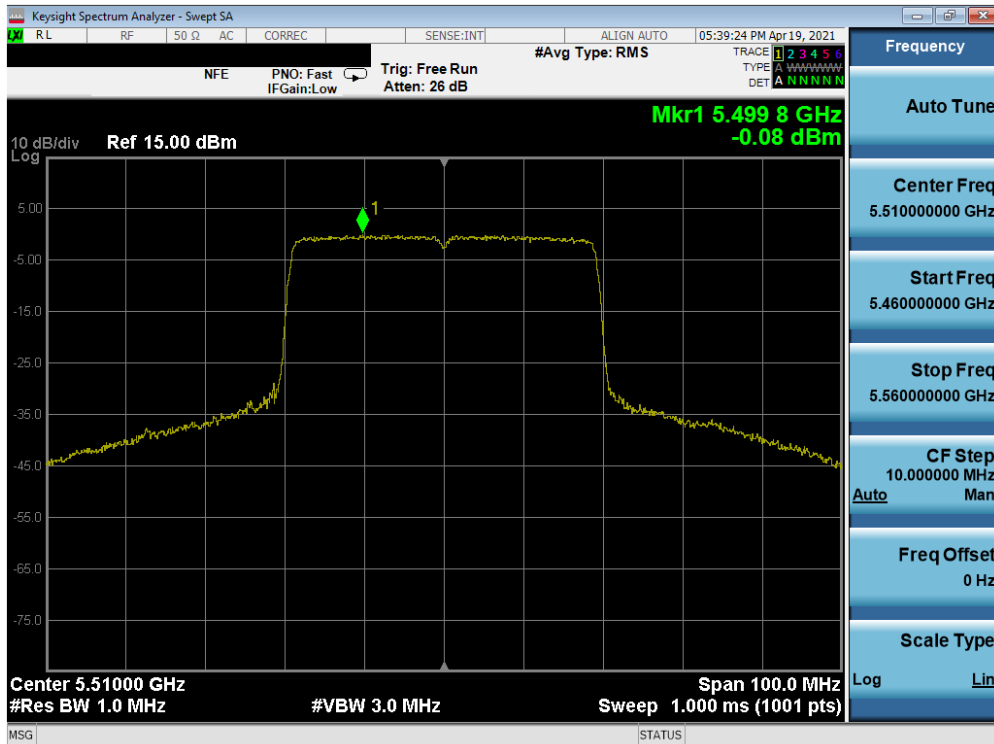


Plot 7-257. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 192 of 413

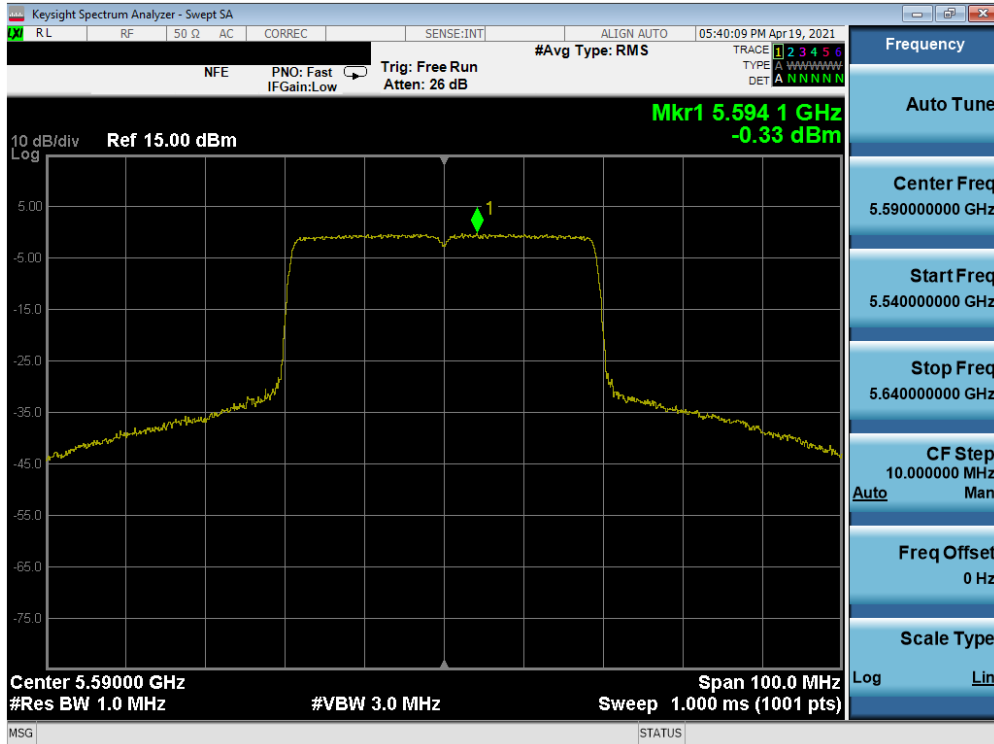


Plot 7-258. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

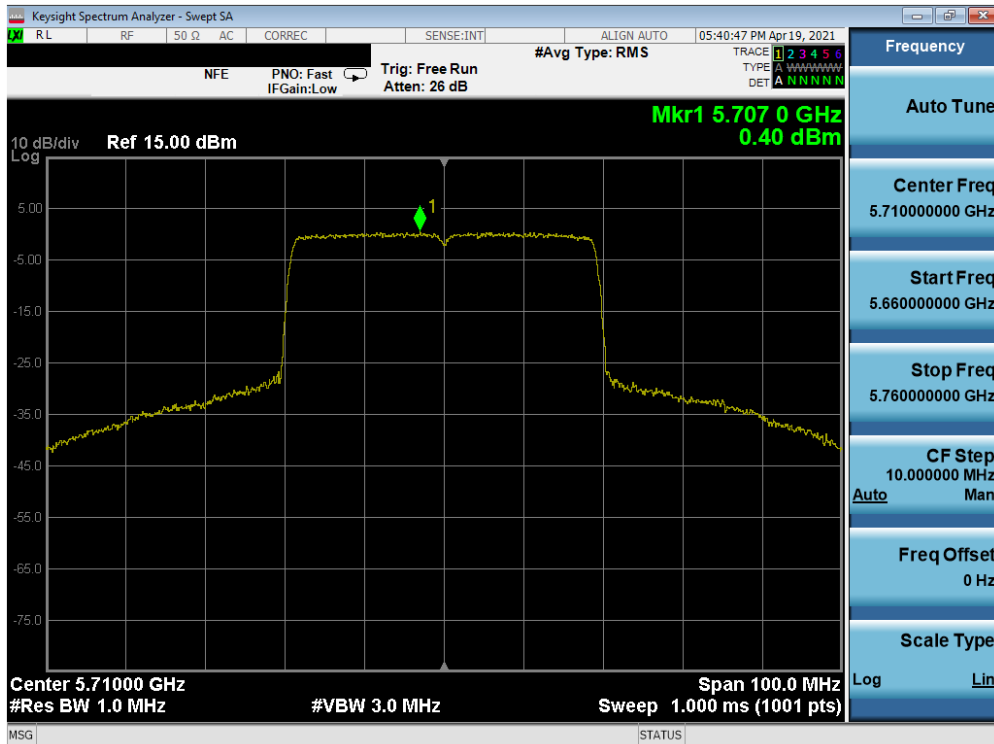


Plot 7-259. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 193 of 413

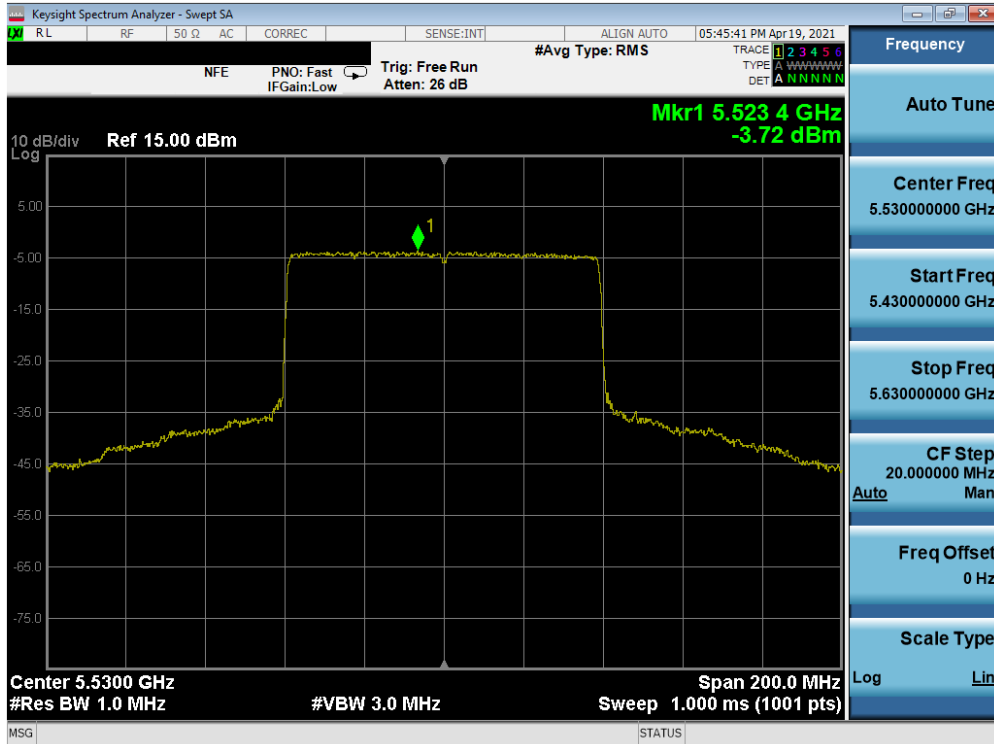


Plot 7-260. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

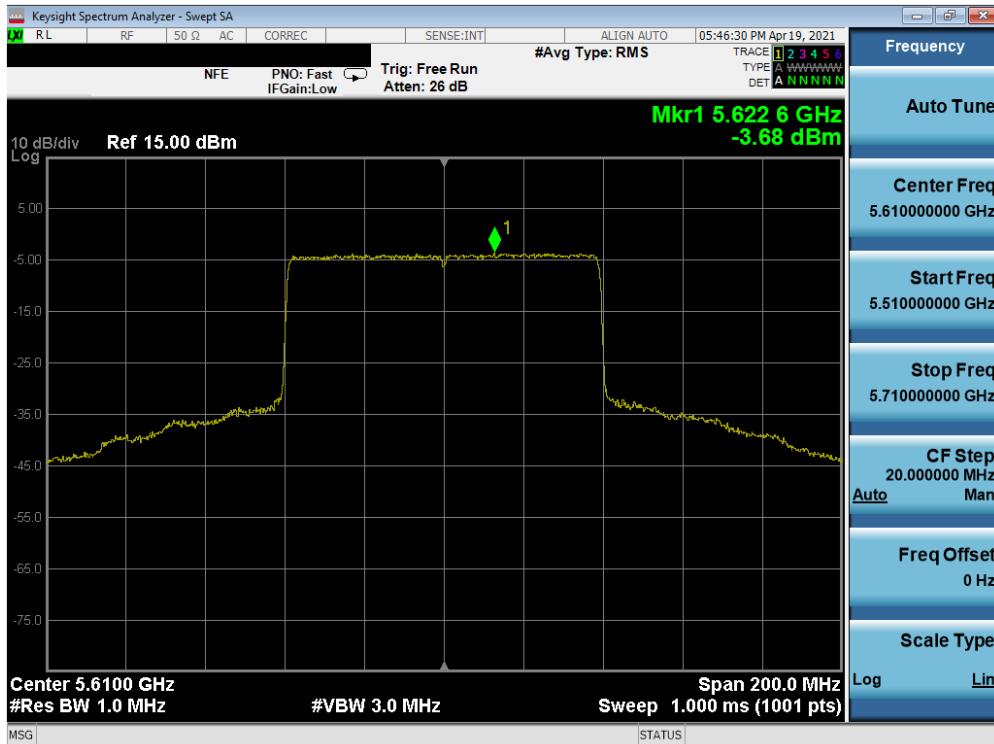


Plot 7-261. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 194 of 413

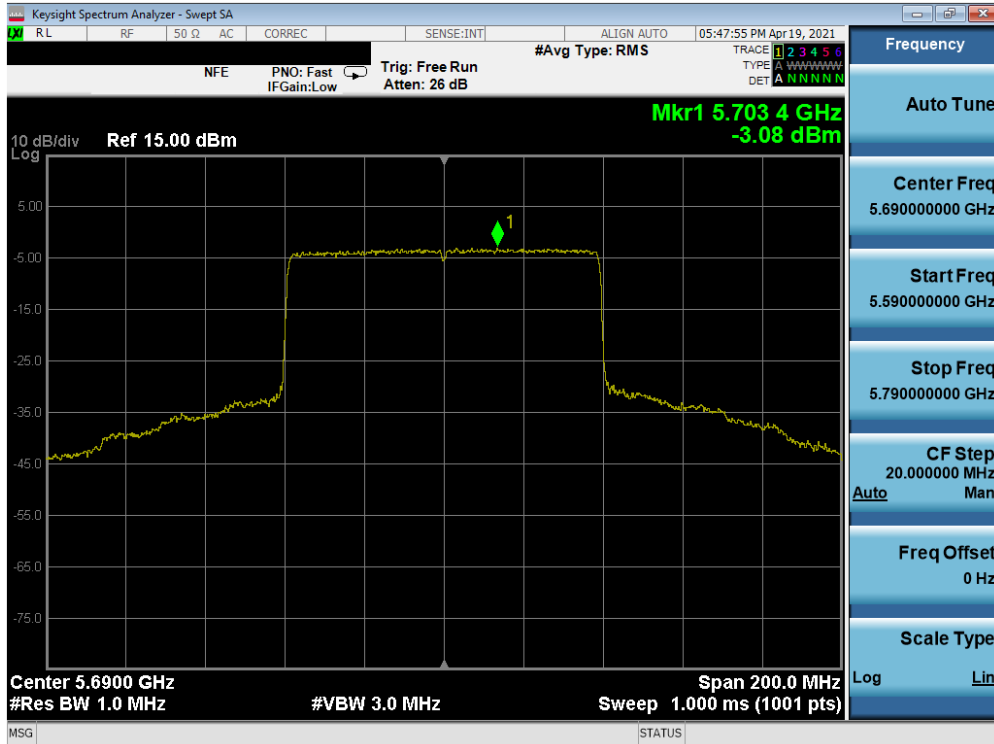


Plot 7-262. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

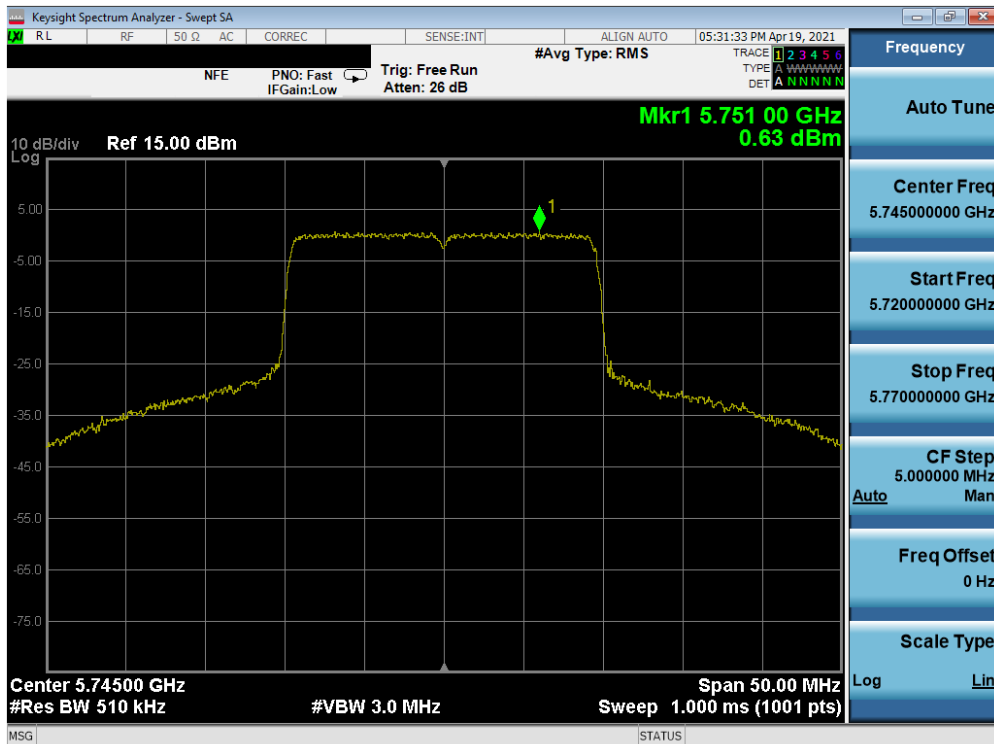


Plot 7-263. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 195 of 413

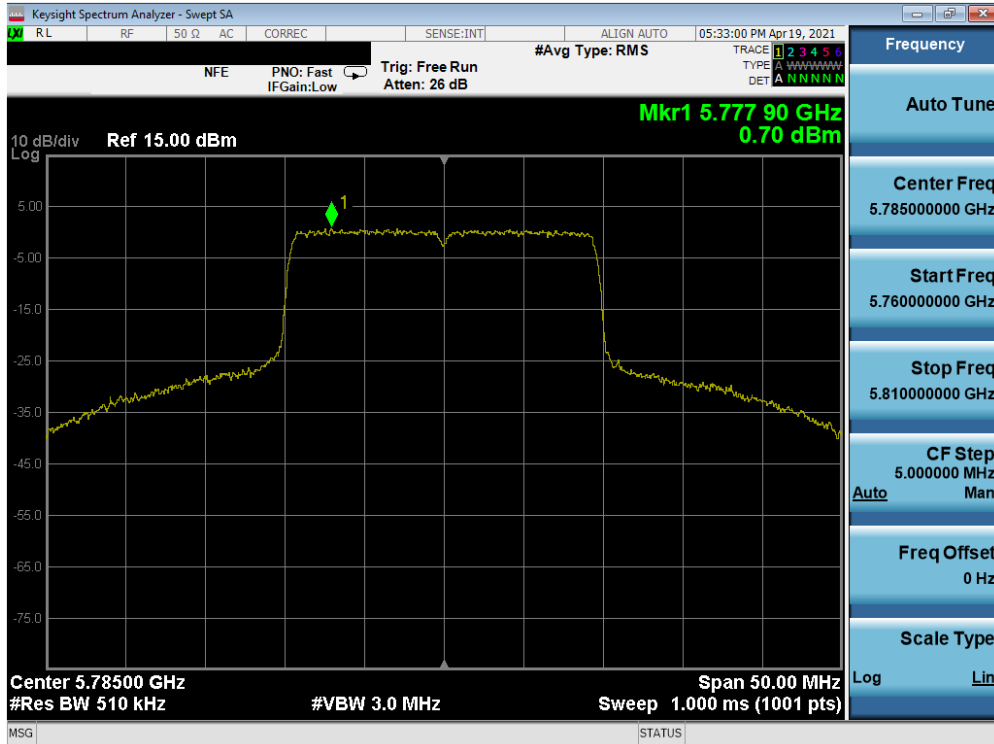


Plot 7-264. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

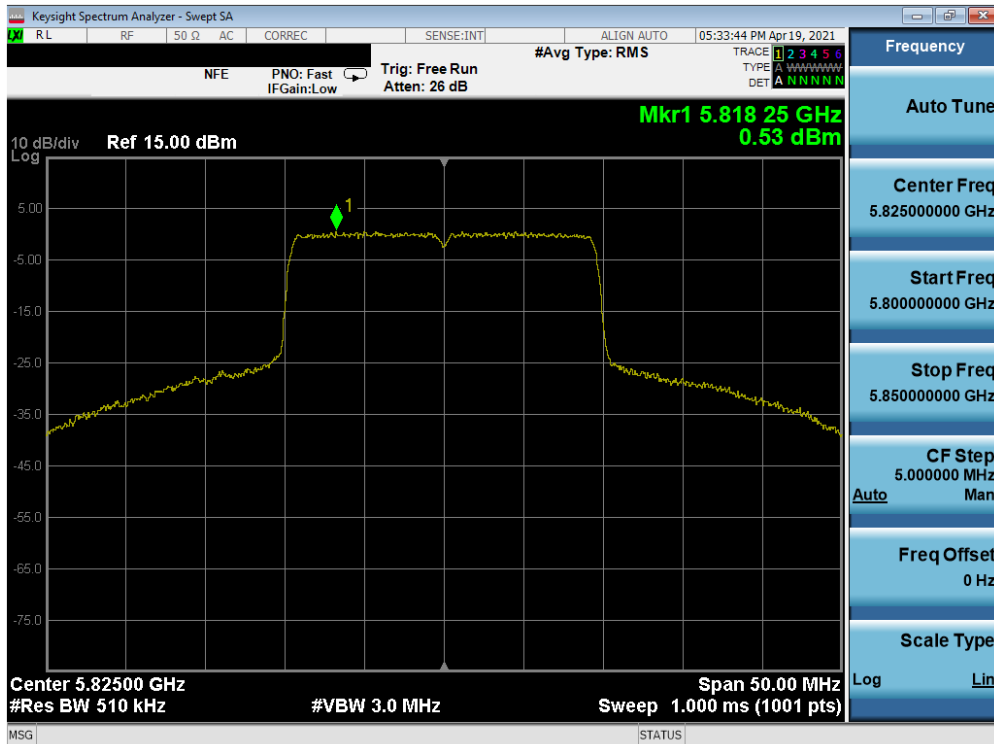


Plot 7-265. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 196 of 413

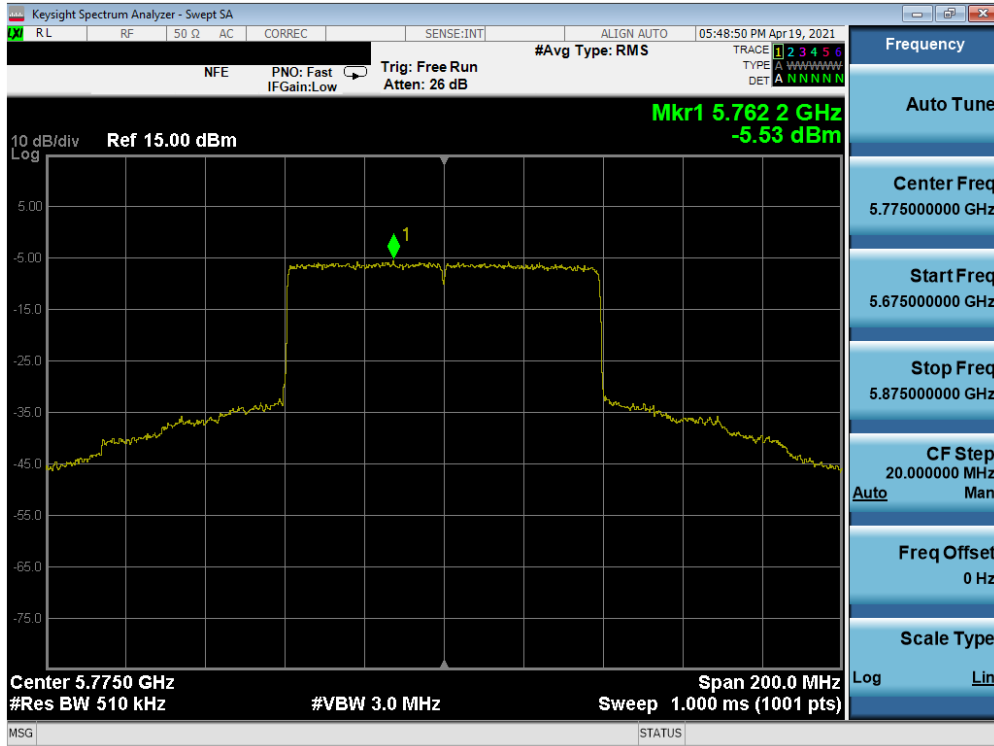


Plot 7-266. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)



Plot 7-267. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 197 of 413



Plot 7-270. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 199 of 413

SISO ANT 1 Power Spectral Density Measurements (26 Tones) – Q

	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	6.79	11.0	-4.21
	5200	40	ax (20MHz)	26T	MCS0	6.75	11.0	-4.25
	5240	48	ax (20MHz)	26T	MCS0	7.04	11.0	-3.96
	5190	38	ax (40MHz)	26T	MCS0	6.90	11.0	-4.10
	5230	46	ax (40MHz)	26T	MCS0	7.84	11.0	-3.16
	5210	42	ax (80MHz)	26T	MCS0	5.02	11.0	-5.98
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.89	11.0	-3.11
	5280	56	ax (20MHz)	26T	MCS0	7.84	11.0	-3.16
	5320	64	ax (20MHz)	26T	MCS0	7.87	11.0	-3.13
	5270	54	ax (40MHz)	26T	MCS0	7.65	11.0	-3.35
	5310	62	ax (40MHz)	26T	MCS0	7.33	11.0	-3.67
	5290	58	ax (80MHz)	26T	MCS0	6.28	11.0	-4.72
Band 2C	5500	100	ax (20MHz)	26T	MCS0	6.89	11.0	-4.11
	5600	120	ax (20MHz)	26T	MCS0	6.45	11.0	-4.55
	5720	144	ax (20MHz)	26T	MCS0	8.37	11.0	-2.63
	5510	102	ax (40MHz)	26T	MCS0	7.34	11.0	-3.66
	5590	118	ax (40MHz)	26T	MCS0	7.65	11.0	-3.35
	5710	142	ax (40MHz)	26T	MCS0	8.06	11.0	-2.94
	5530	106	ax (80MHz)	26T	MCS0	7.21	11.0	-3.79
	5610	122	ax (80MHz)	26T	MCS0	7.47	11.0	-3.53
	5690	138	ax (80MHz)	26T	MCS0	6.97	11.0	-4.03

Table 7-82. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements (26 Tones)

	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)	26T	MCS0	5.12	30.00	-24.88
	5785	157	ax (20MHz)	26T	MCS0	5.11	30.00	-24.89
	5825	165	ax (20MHz)	26T	MCS0	4.78	30.00	-25.22
	5755	151	ax (40MHz)	26T	MCS0	5.94	30.00	-24.06
	5795	159	ax (40MHz)	26T	MCS0	5.65	30.00	-24.35
	5775	155	ax (80MHz)	26T	MCS0	5.45	30.00	-24.55

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

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 200 of 413

SISO ANT 1 Power Spectral Density Measurements (Full Tones) – Q

	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

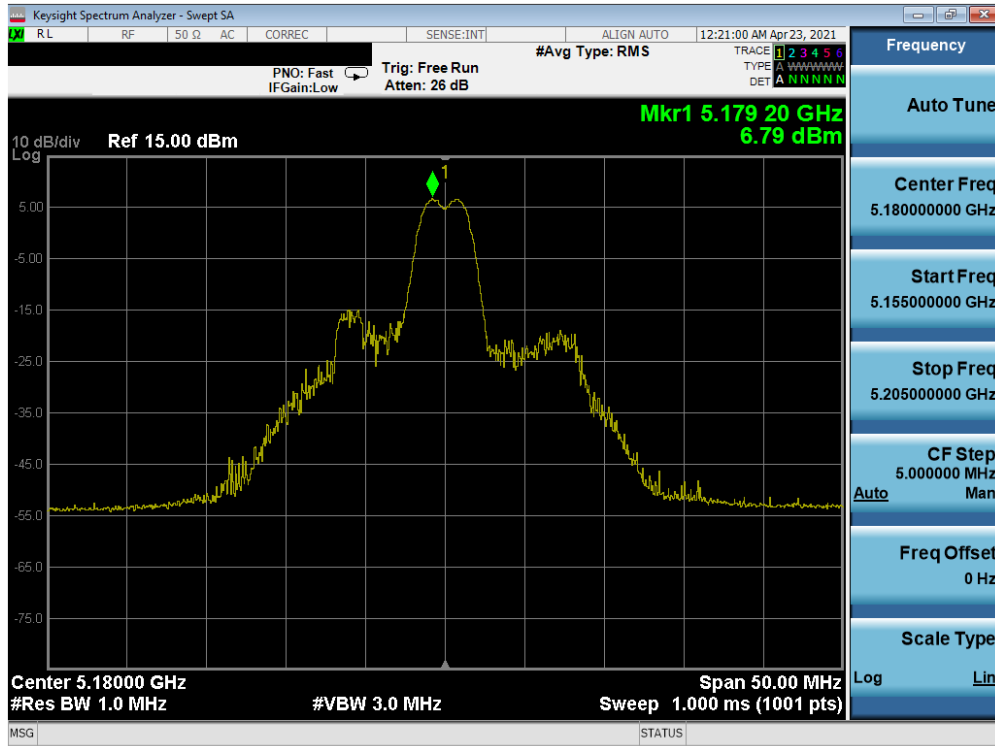
Table 7-84. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	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

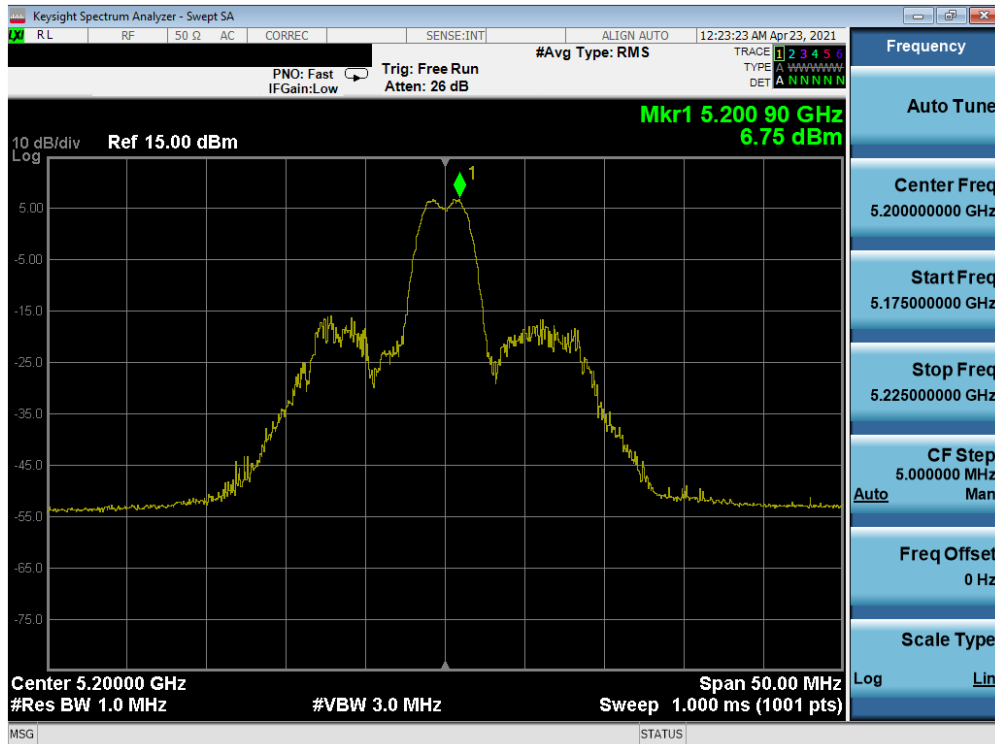
Table 7-85. Band 3 Conducted Power Spectral Density Measurements (Full Tones)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 201 of 413

SISO ANT 1 Power Spectral Density Measurements (26 Tones) – Q

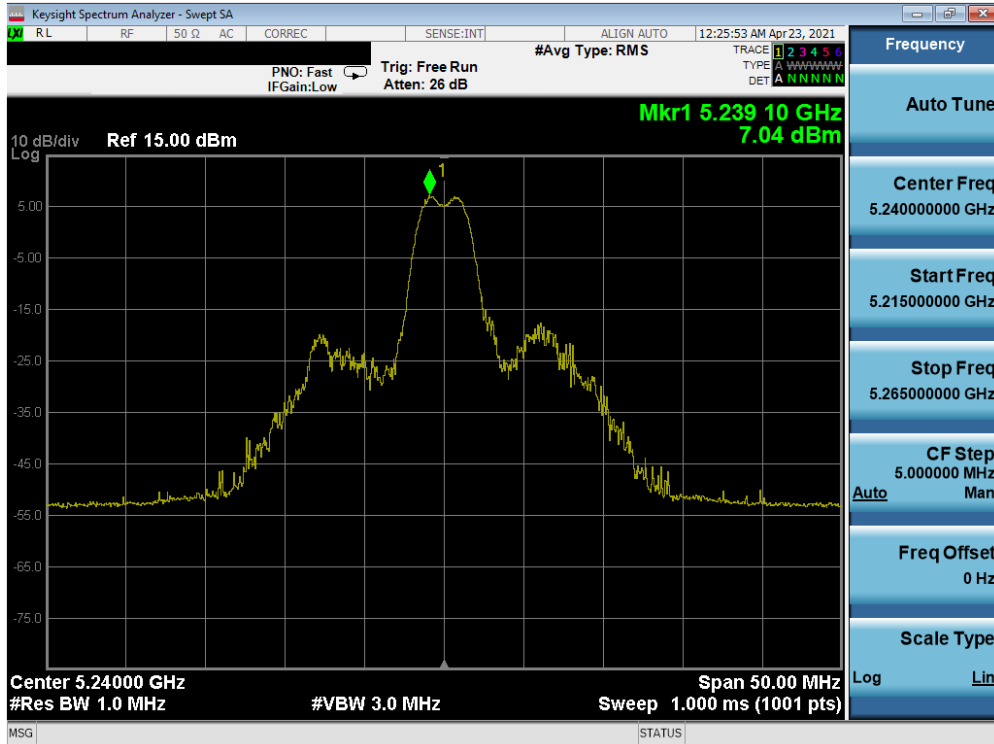


Plot 7-271. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

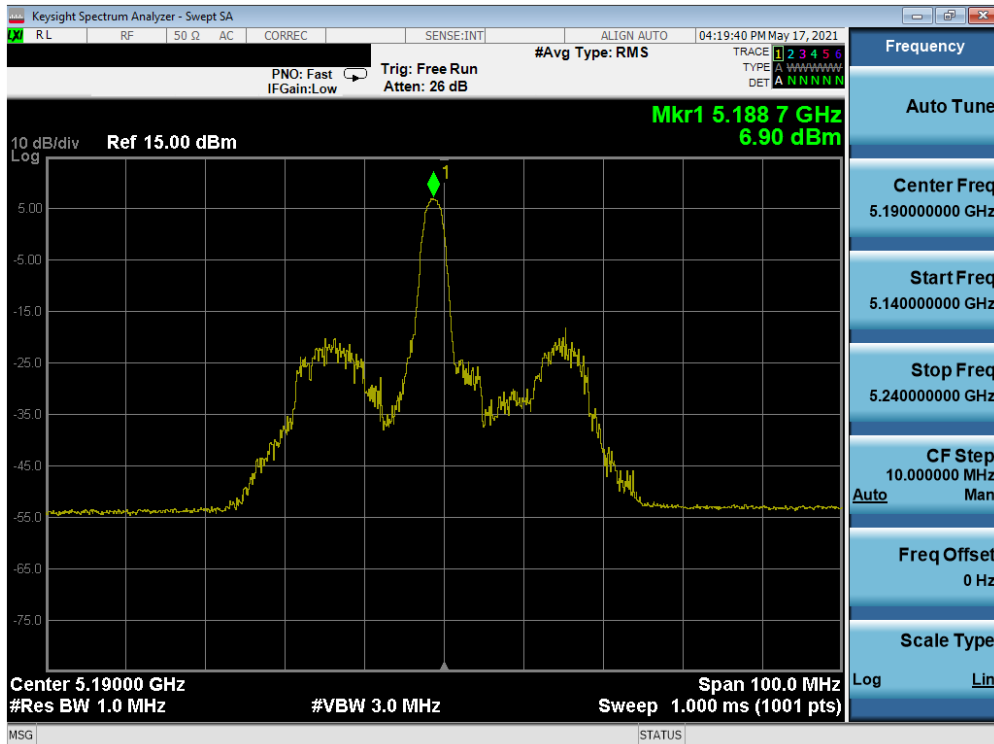


Plot 7-272. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 202 of 413

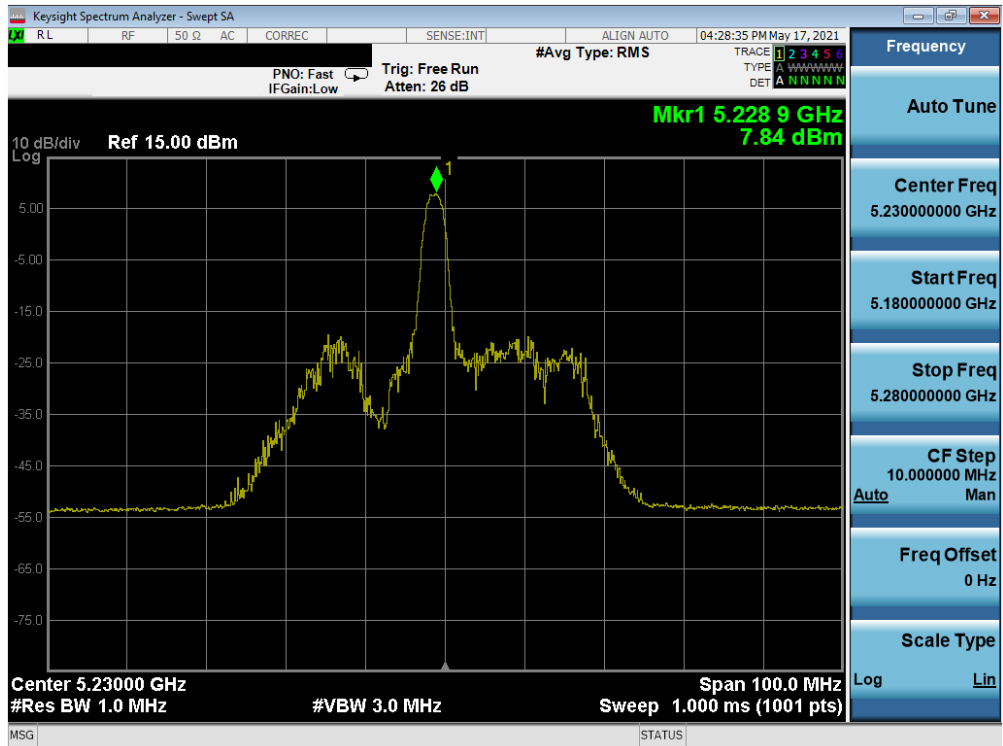


Plot 7-273. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

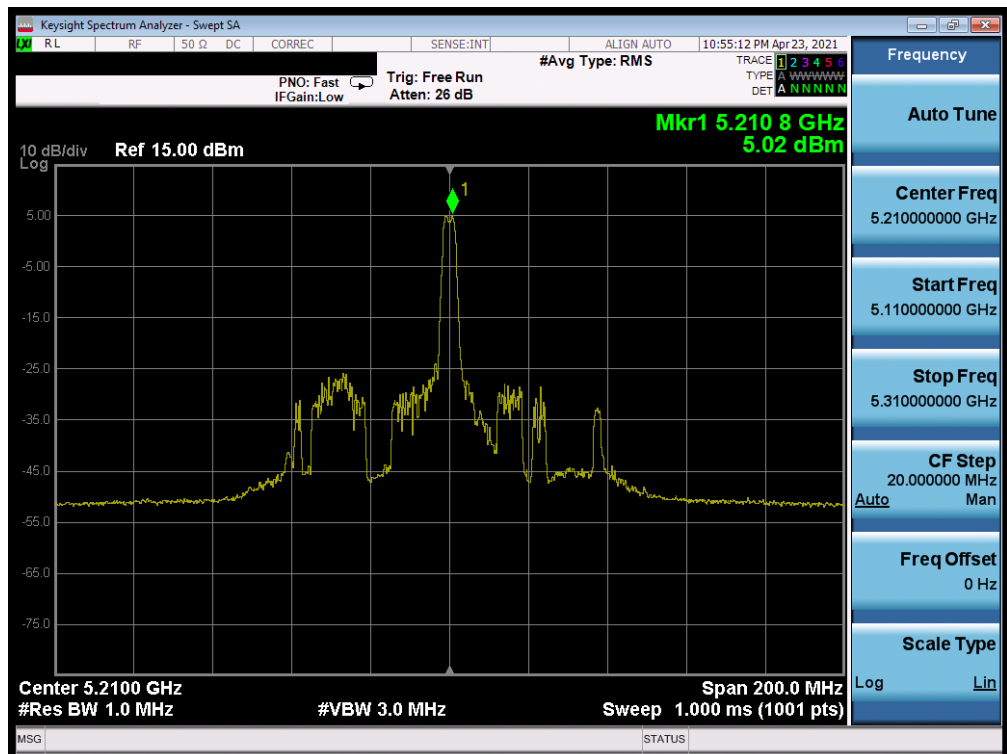


Plot 7-274. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 203 of 413

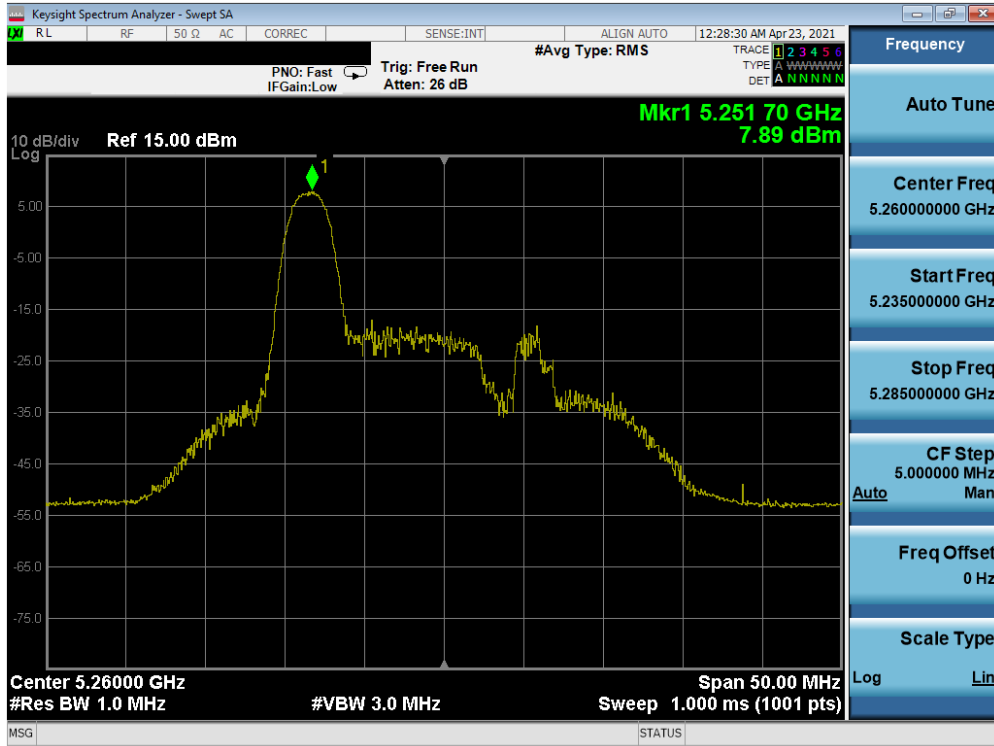


Plot 7-275. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

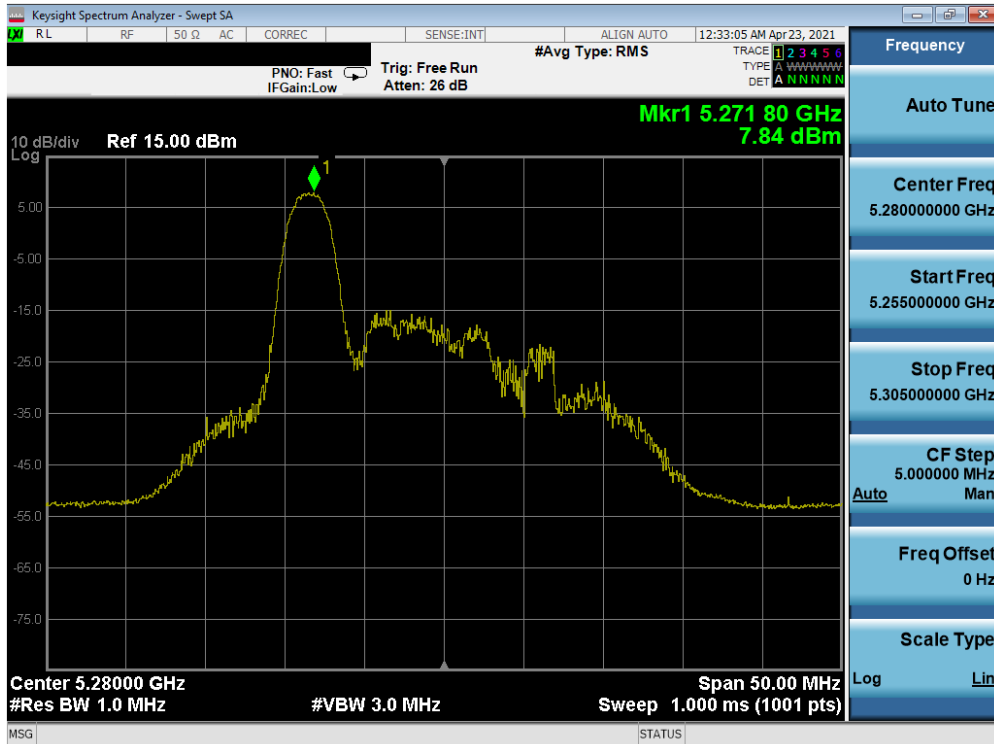


Plot 7-276. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 204 of 413

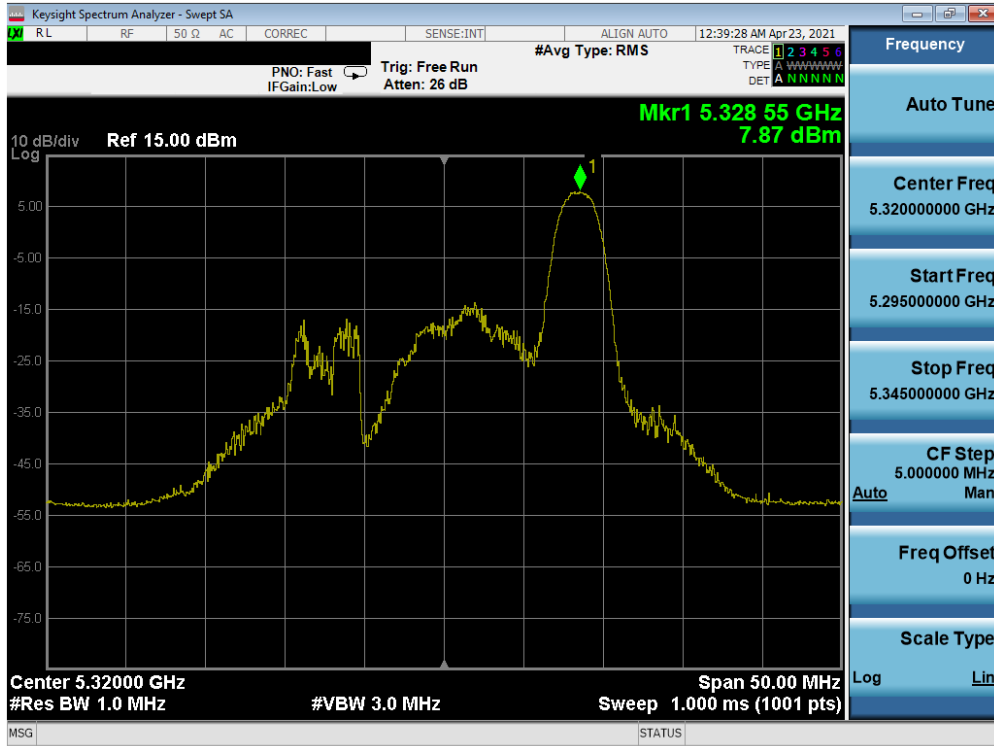


Plot 7-277. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

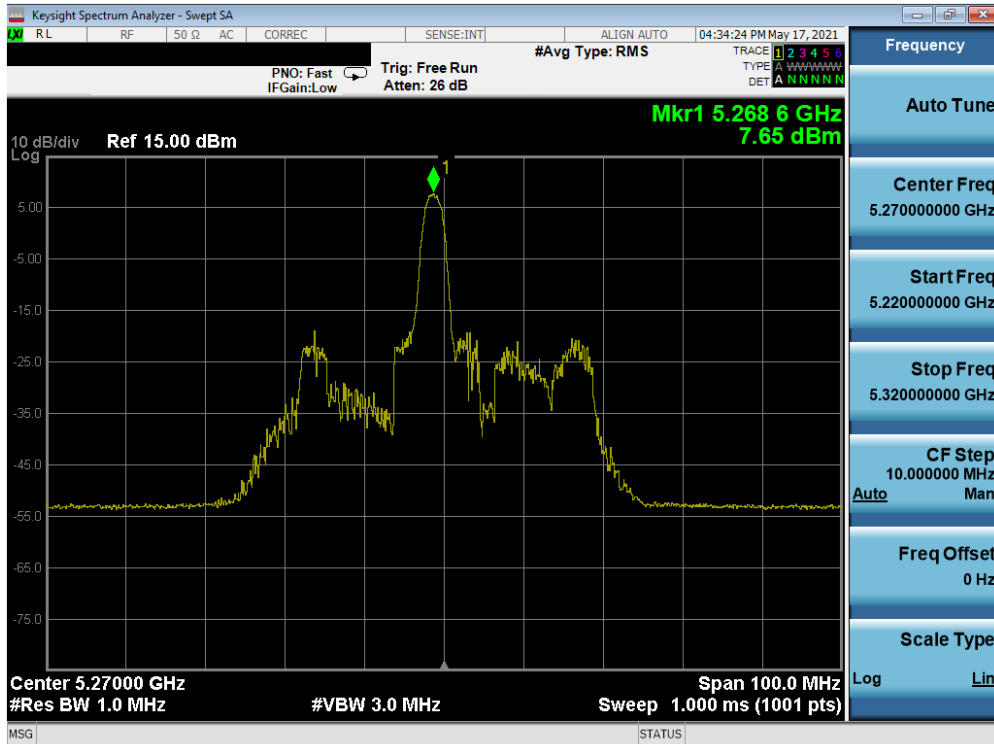


Plot 7-278. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 205 of 413



Plot 7-279. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

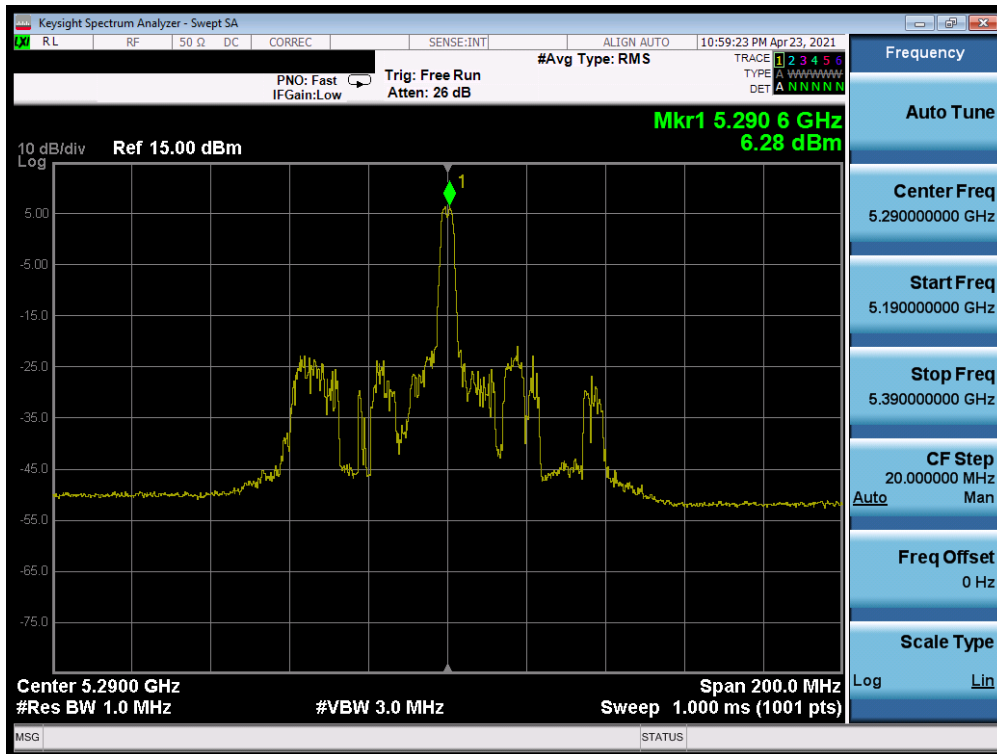


Plot 7-280. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 206 of 413

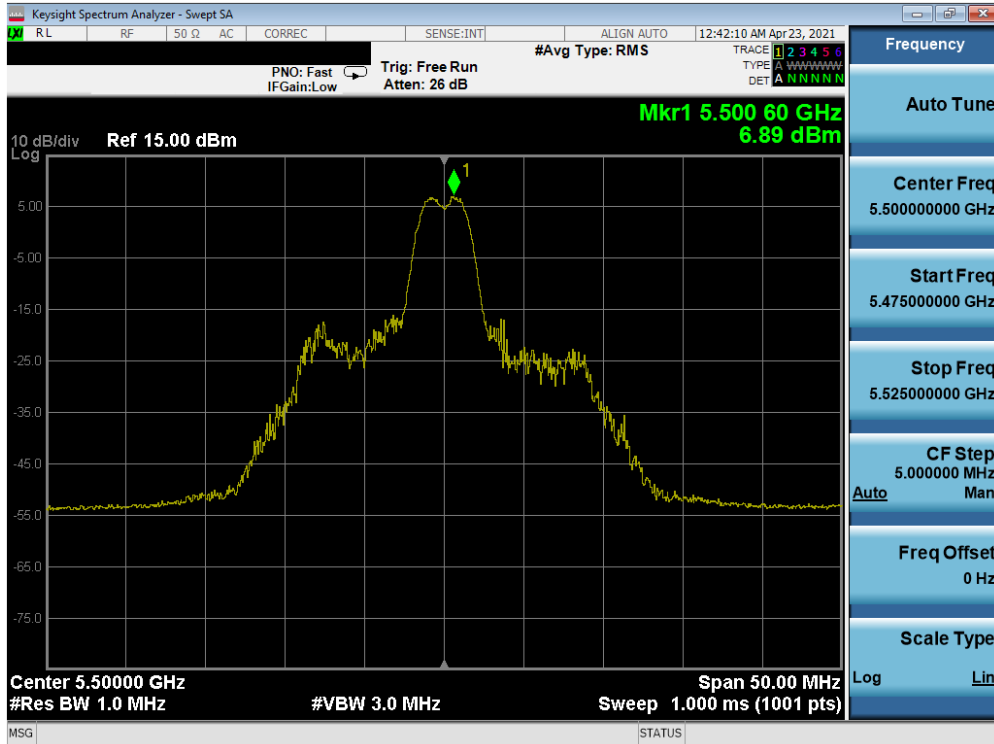


Plot 7-281. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

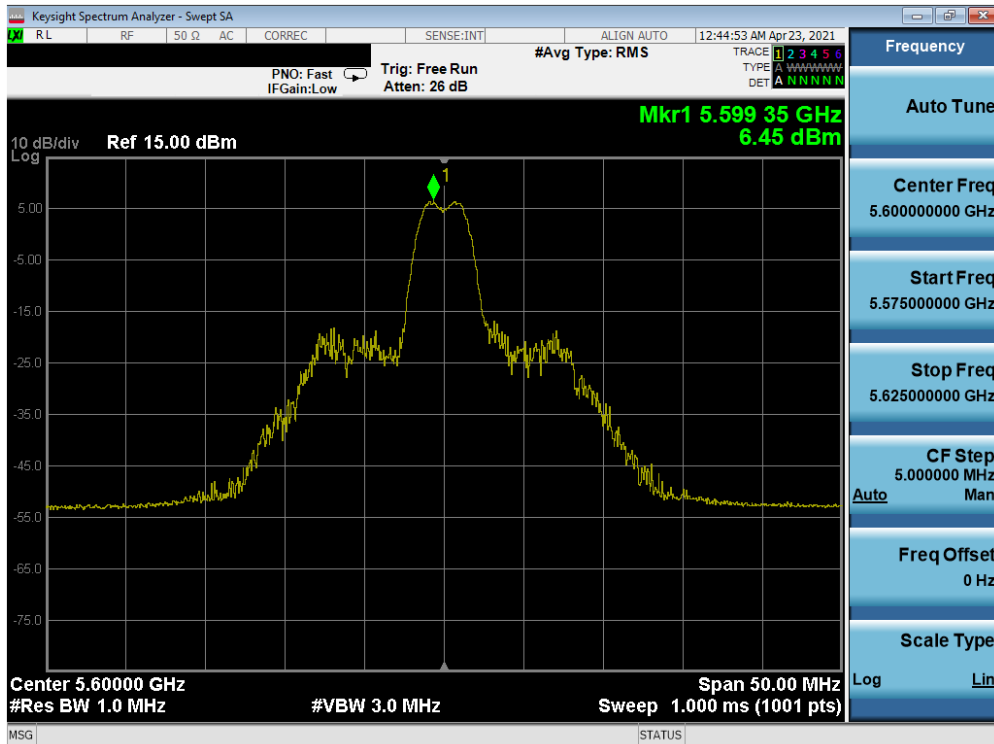


Plot 7-282. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 207 of 413

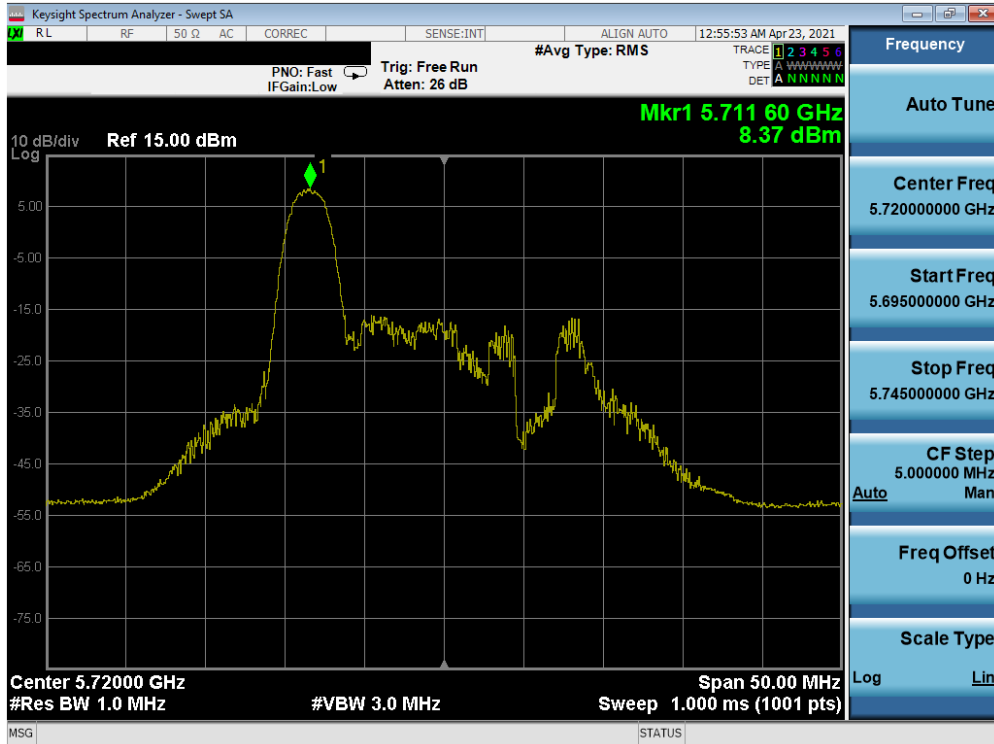


Plot 7-283. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

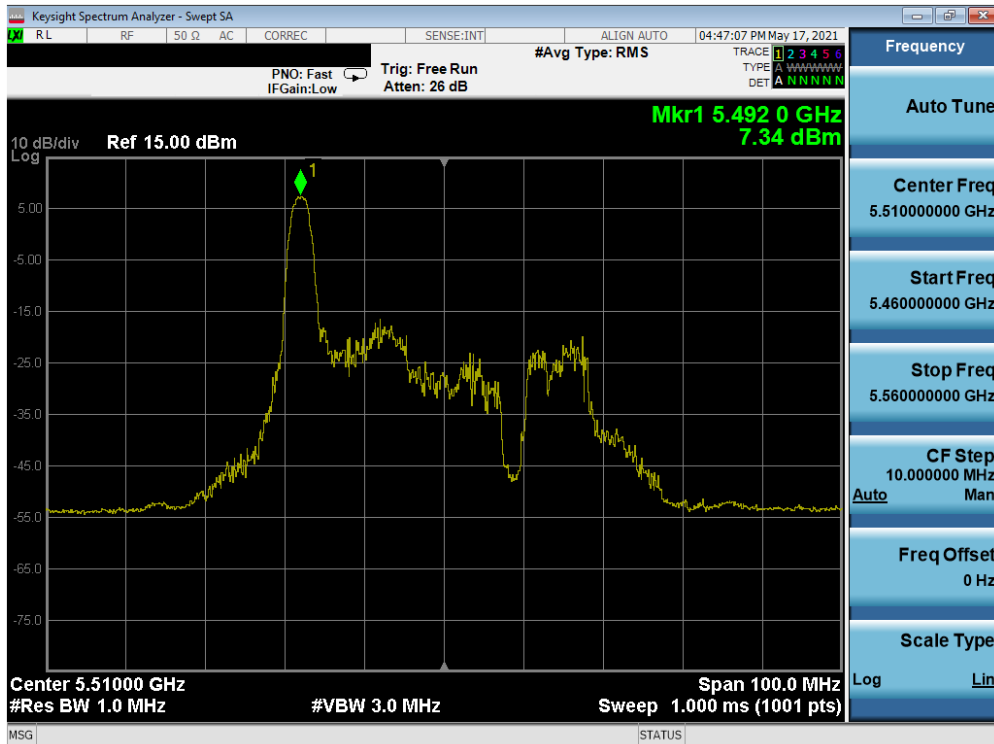


Plot 7-284. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 208 of 413

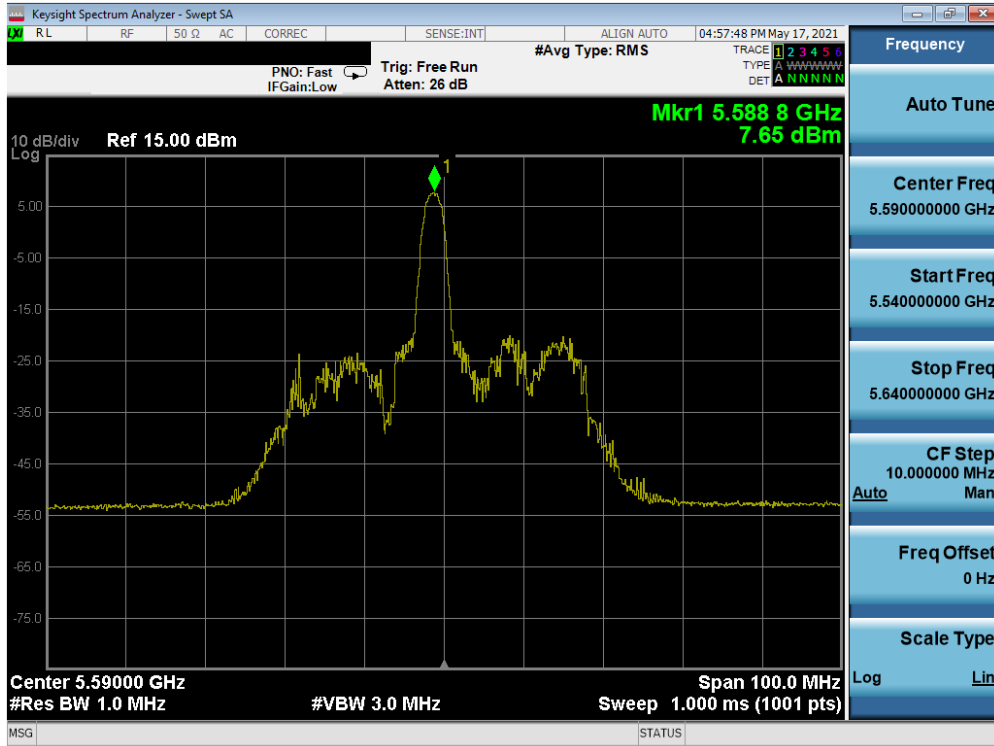


Plot 7-285. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

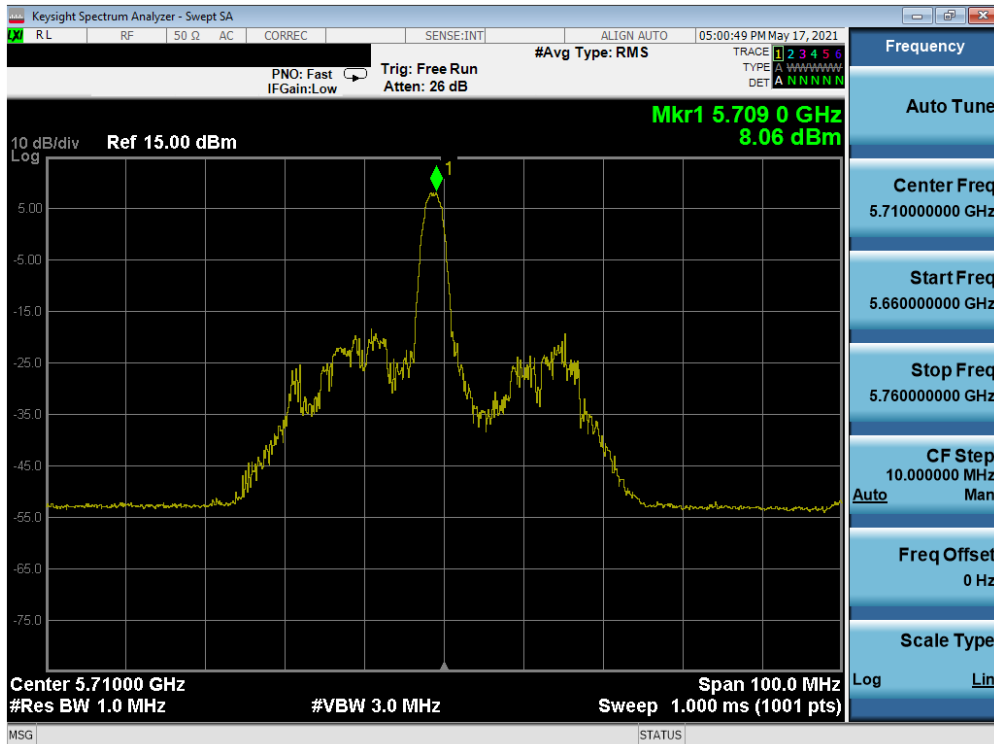


Plot 7-286. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 209 of 413

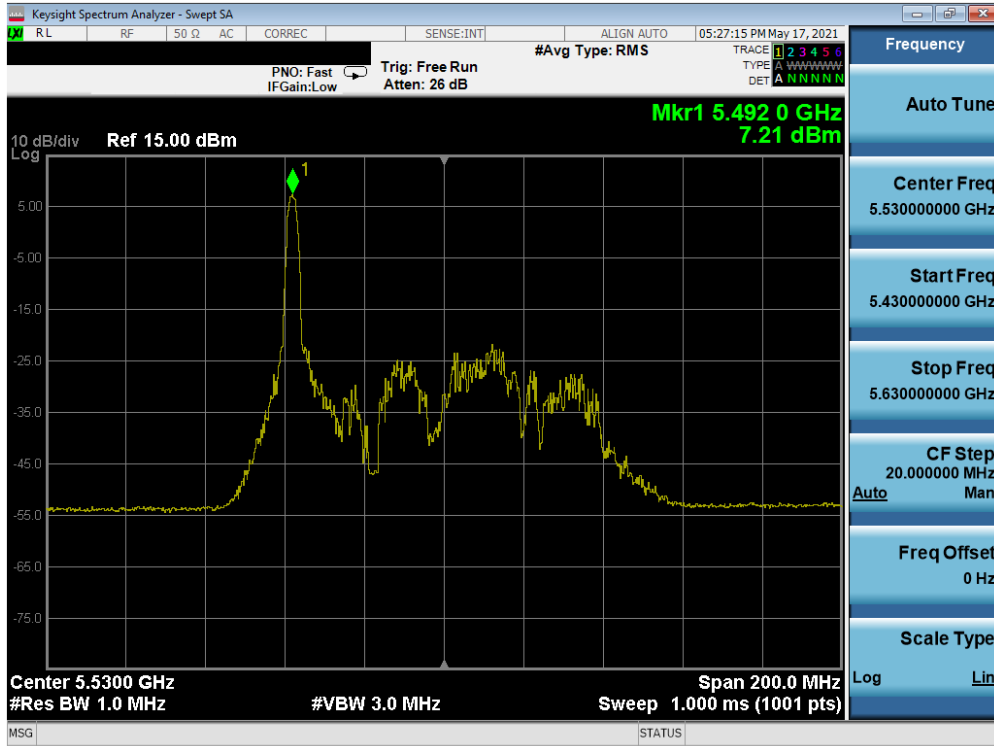


Plot 7-287. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

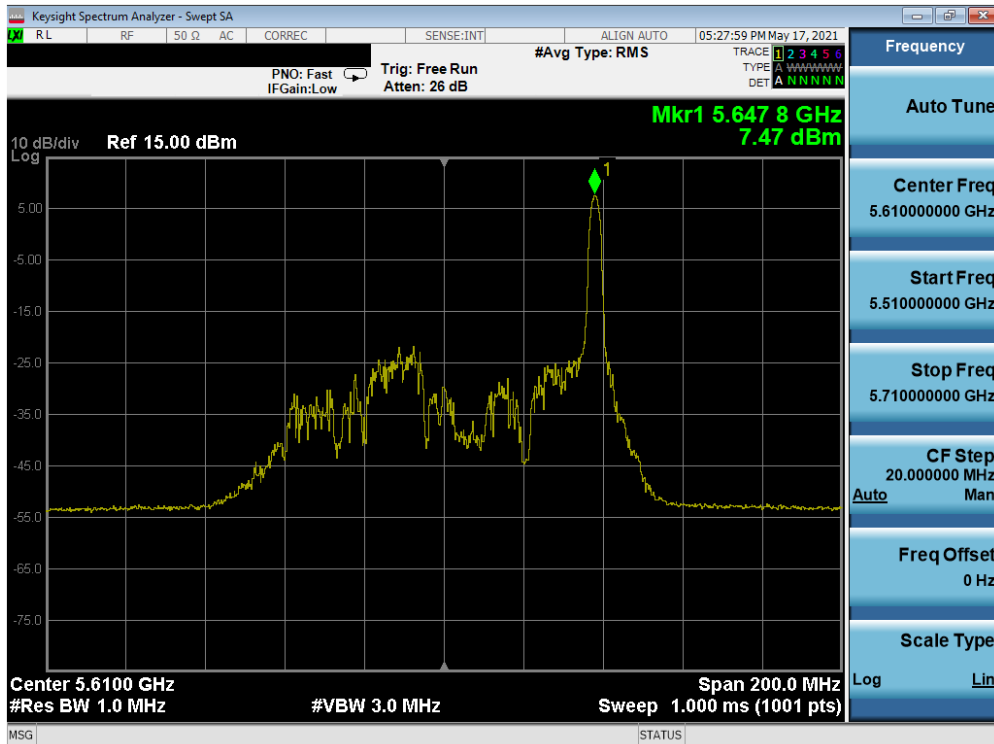


Plot 7-288. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 210 of 413

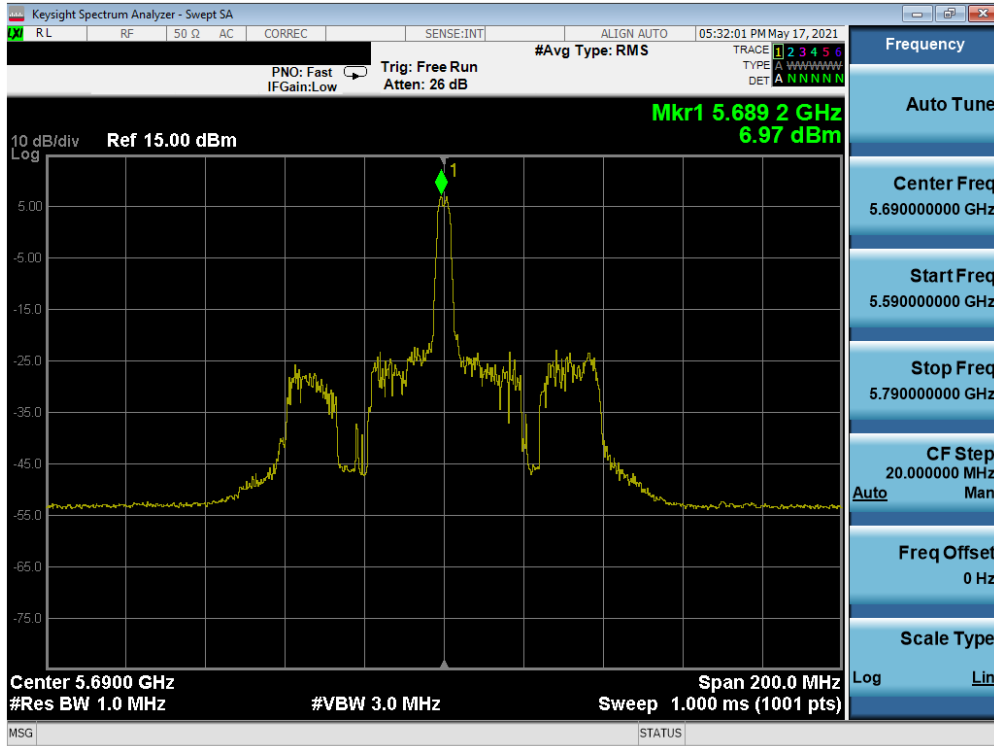


Plot 7-289. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

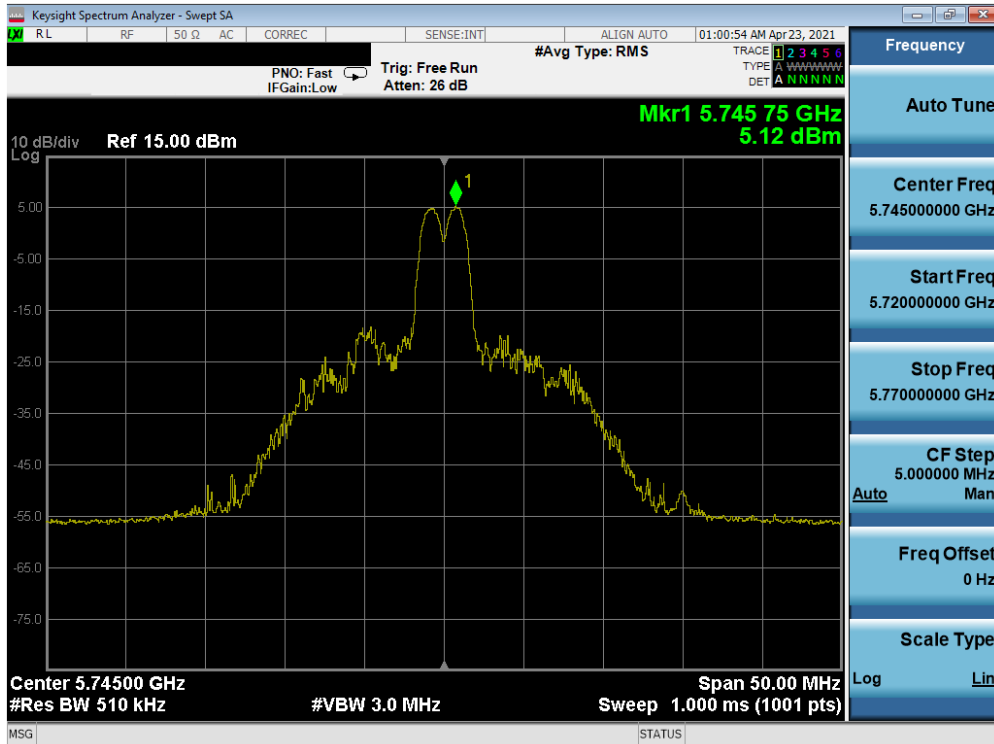


Plot 7-290. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 211 of 413

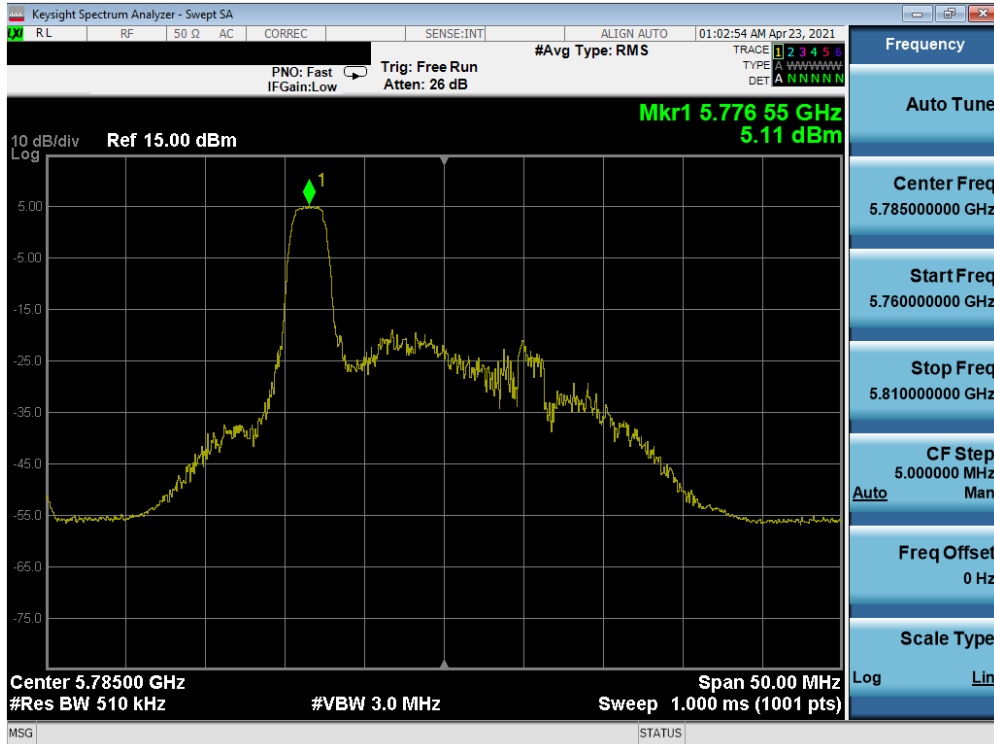


Plot 7-291. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

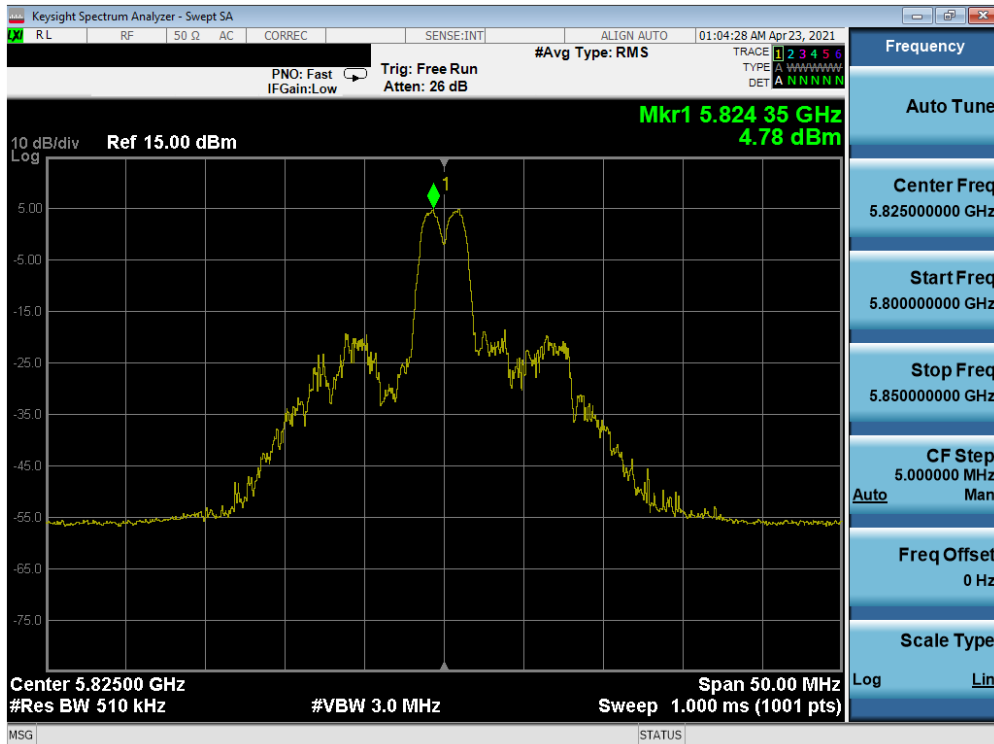


Plot 7-292. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 212 of 413

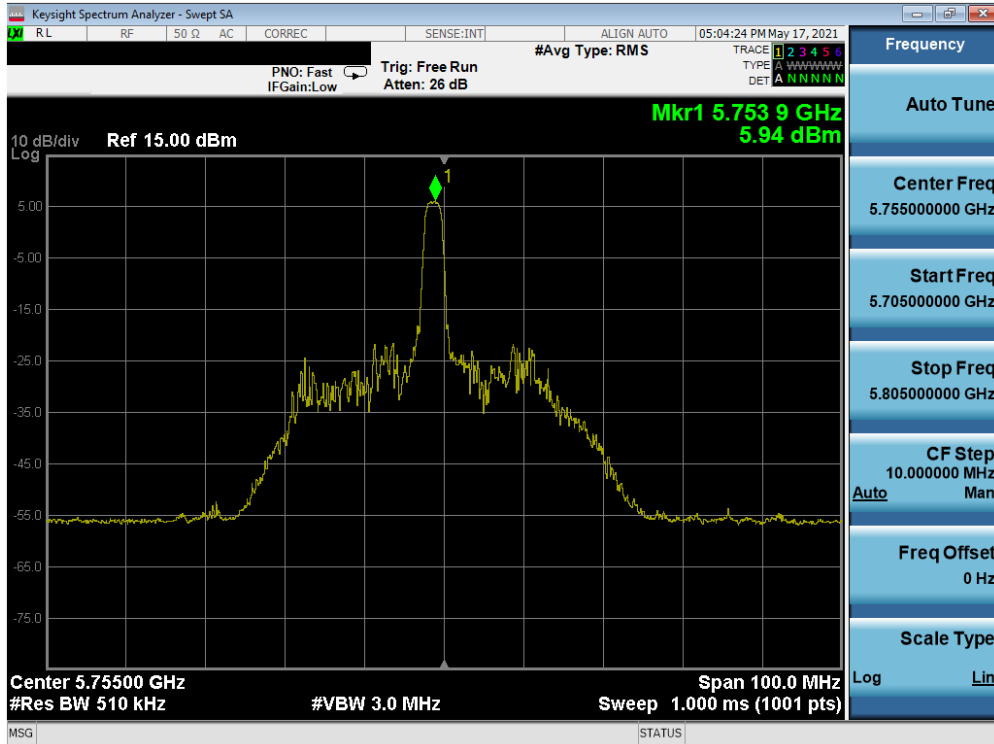


Plot 7-293. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

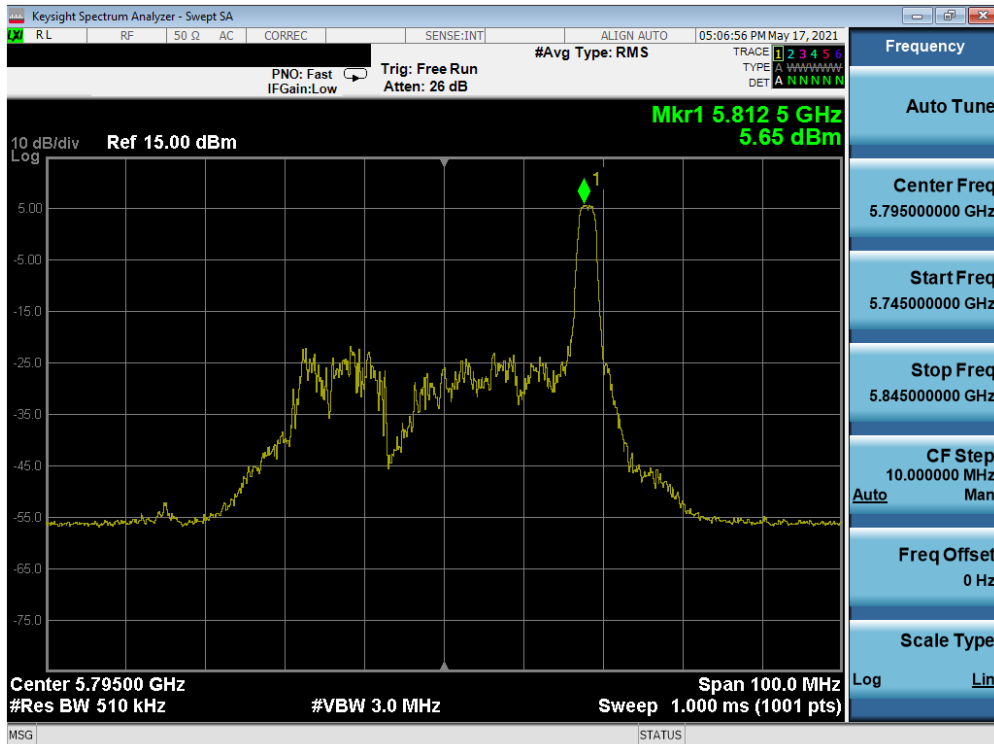


Plot 7-294. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 213 of 413

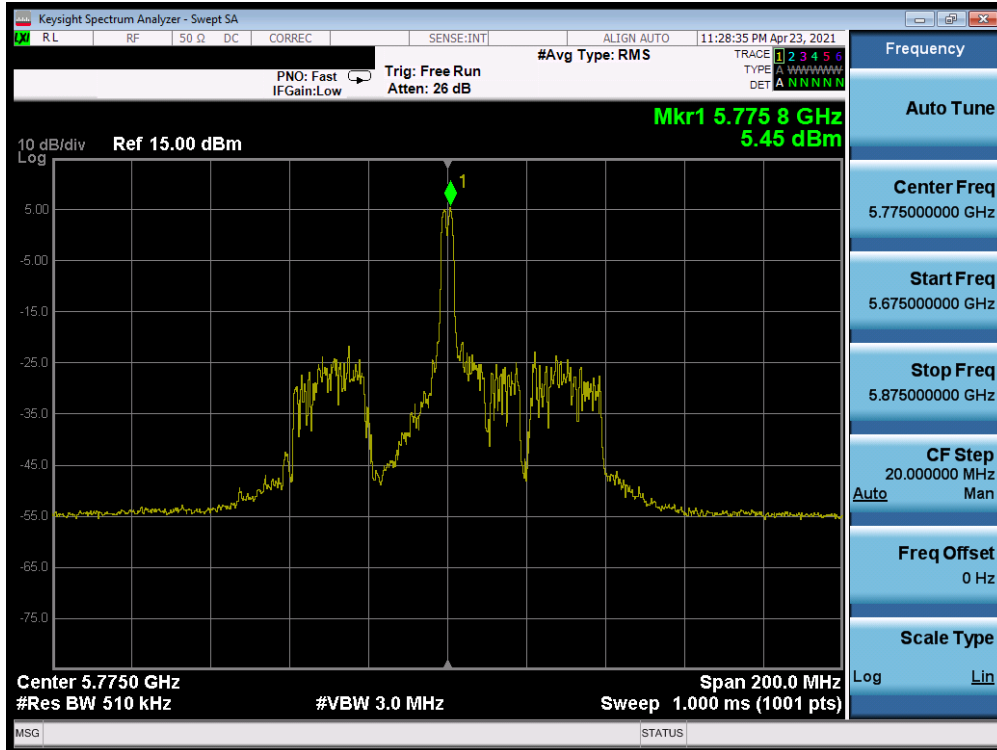


Plot 7-295. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)



Plot 7-296. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)

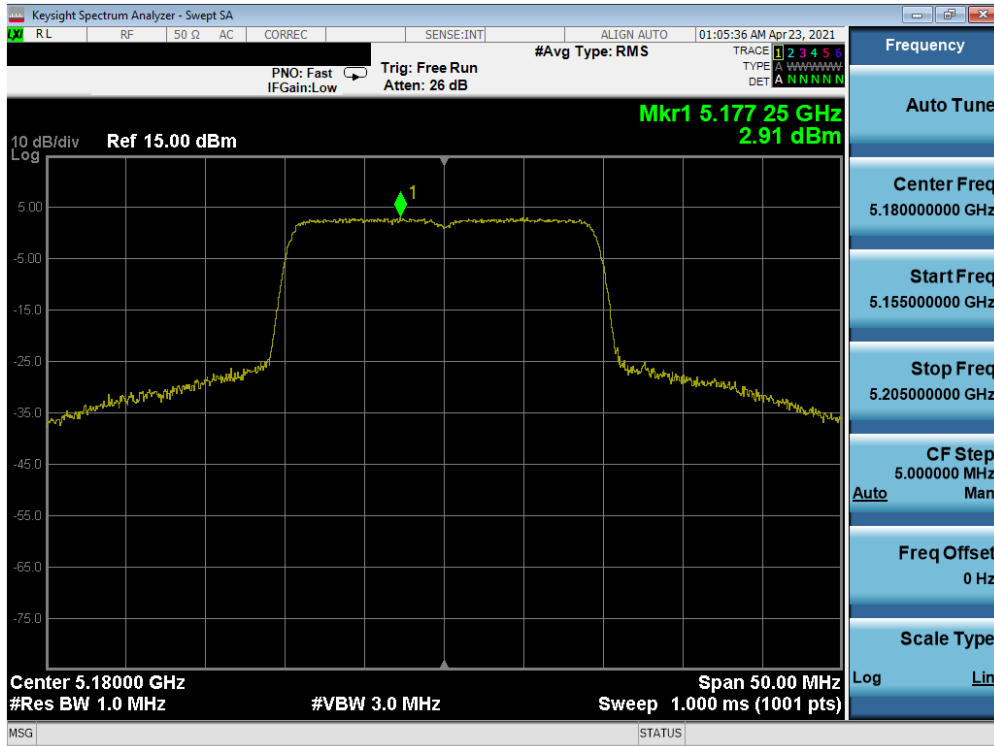
FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 214 of 413



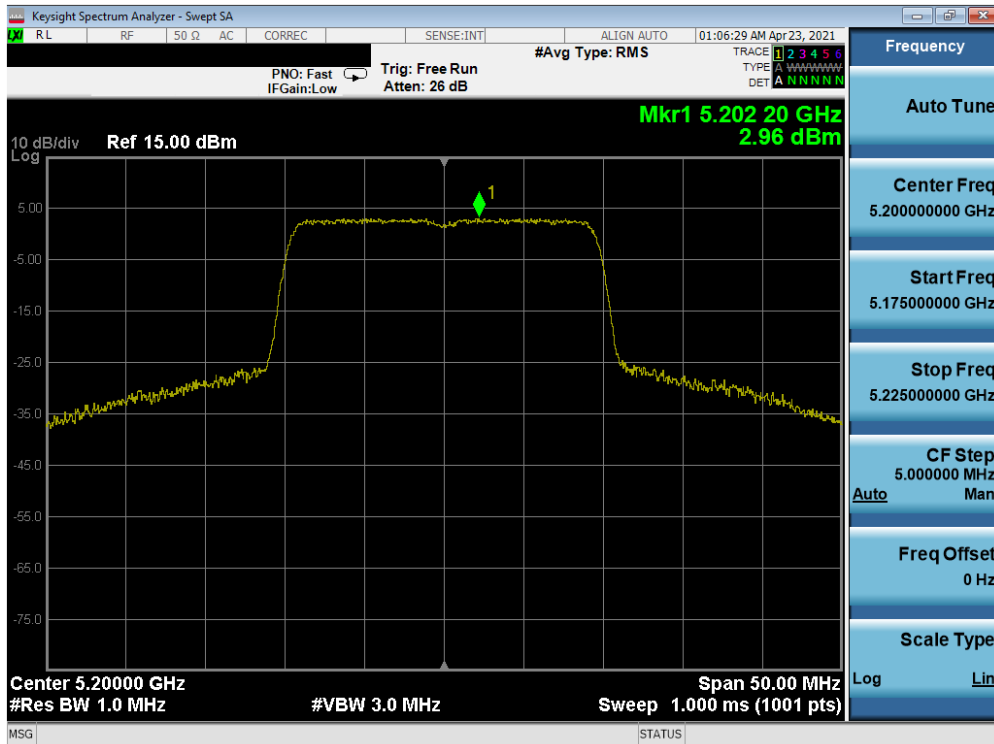
Plot 7-297. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711B	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 215 of 413

SISO ANT 1 Power Spectral Density Measurements (Full Tones) – Q

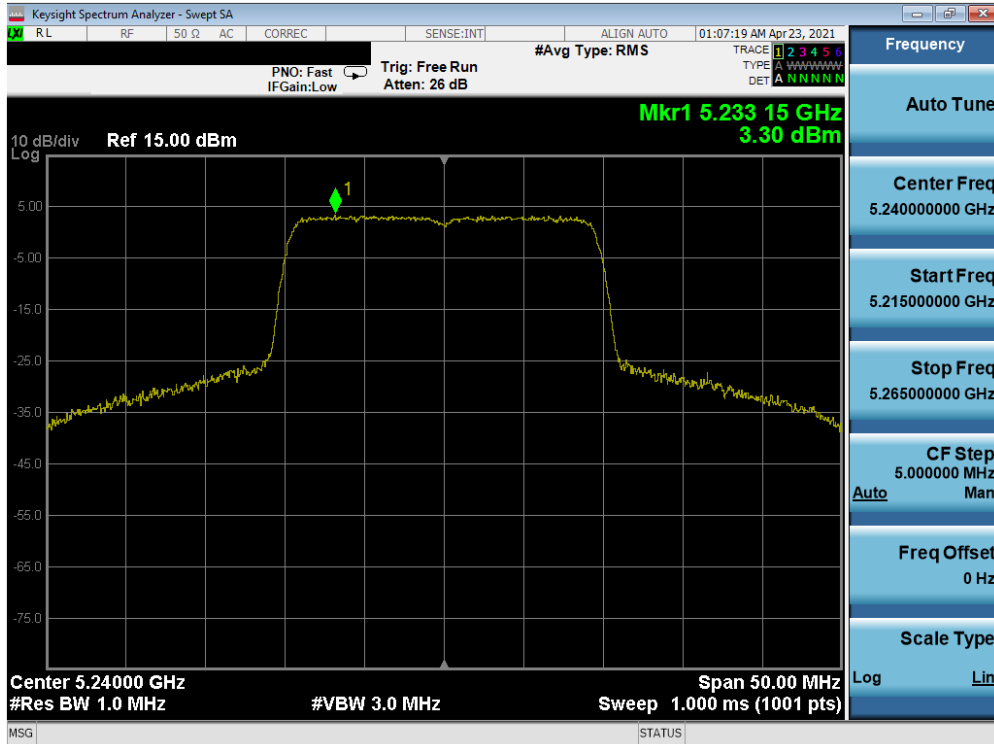


Plot 7-298. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

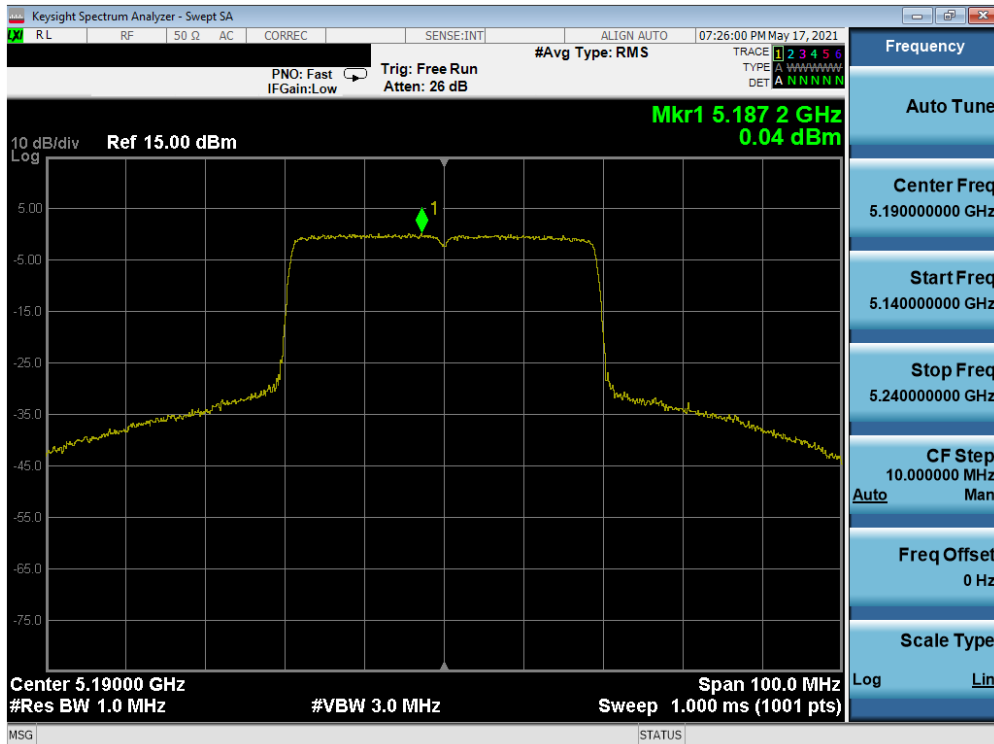


Plot 7-299. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 216 of 413

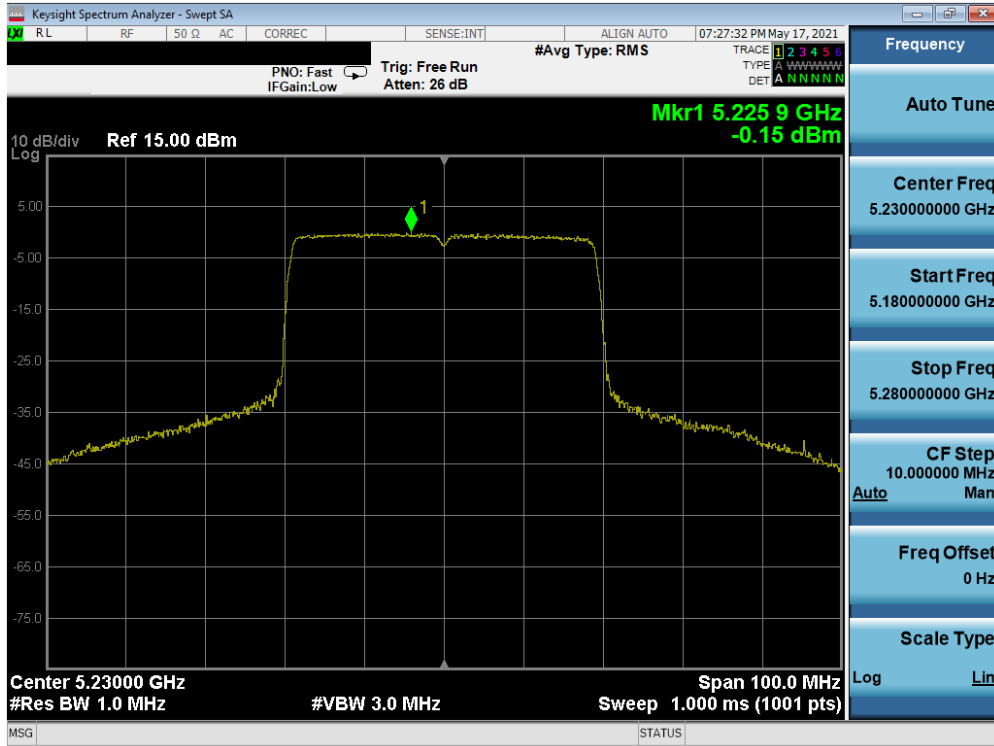


Plot 7-300. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

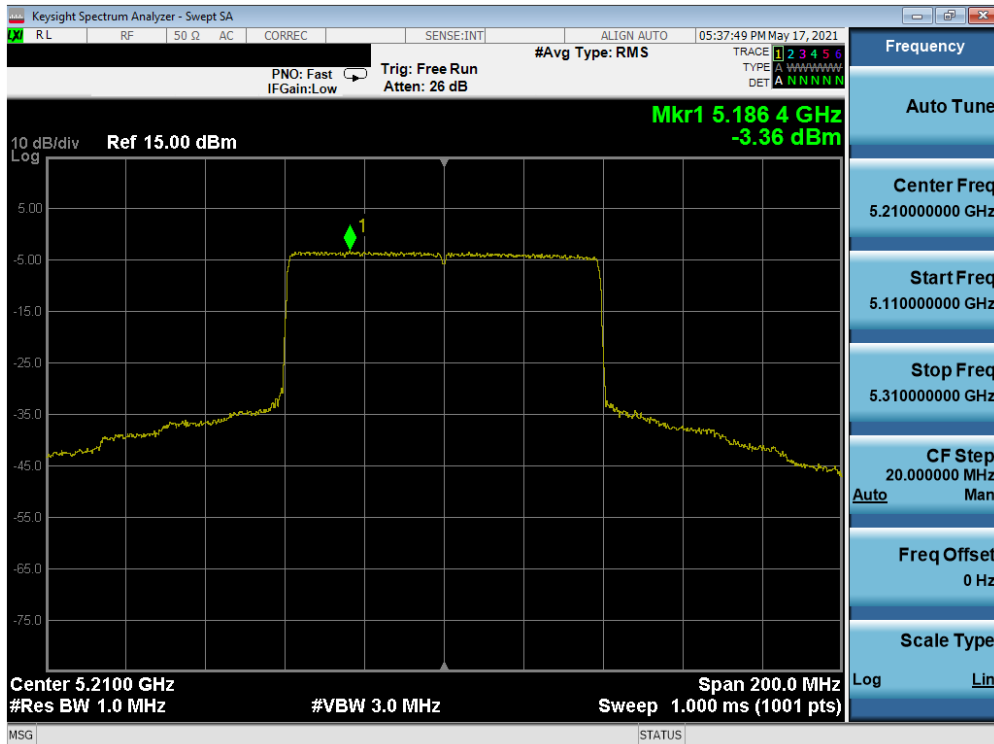


Plot 7-301. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 217 of 413

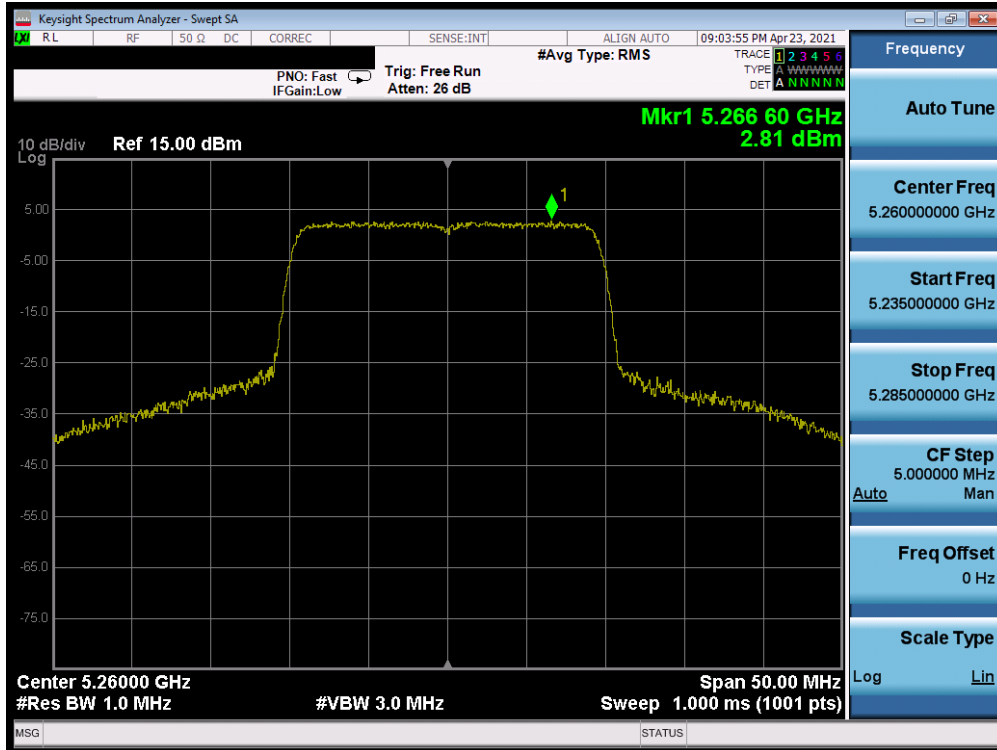


Plot 7-302. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

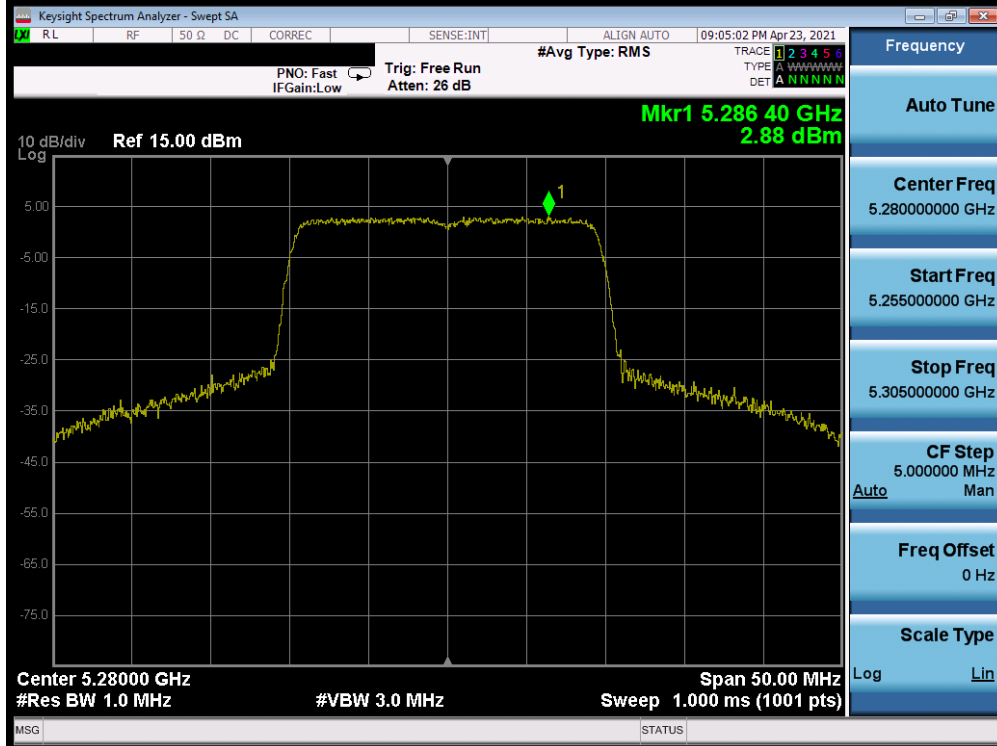


Plot 7-303. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 218 of 413

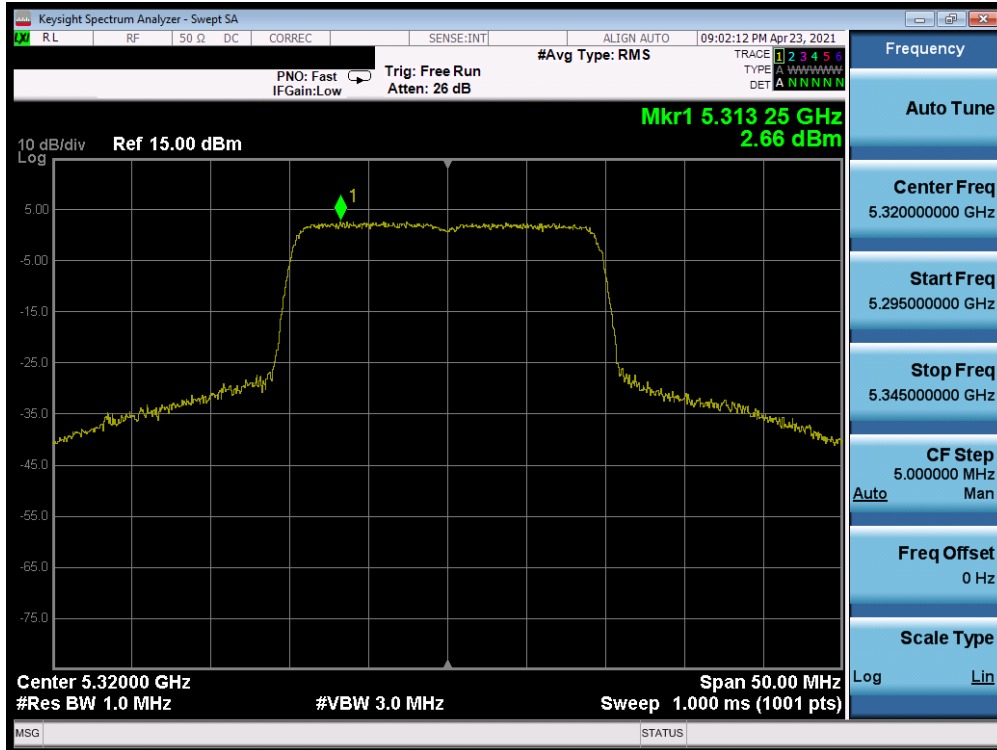


Plot 7-304. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

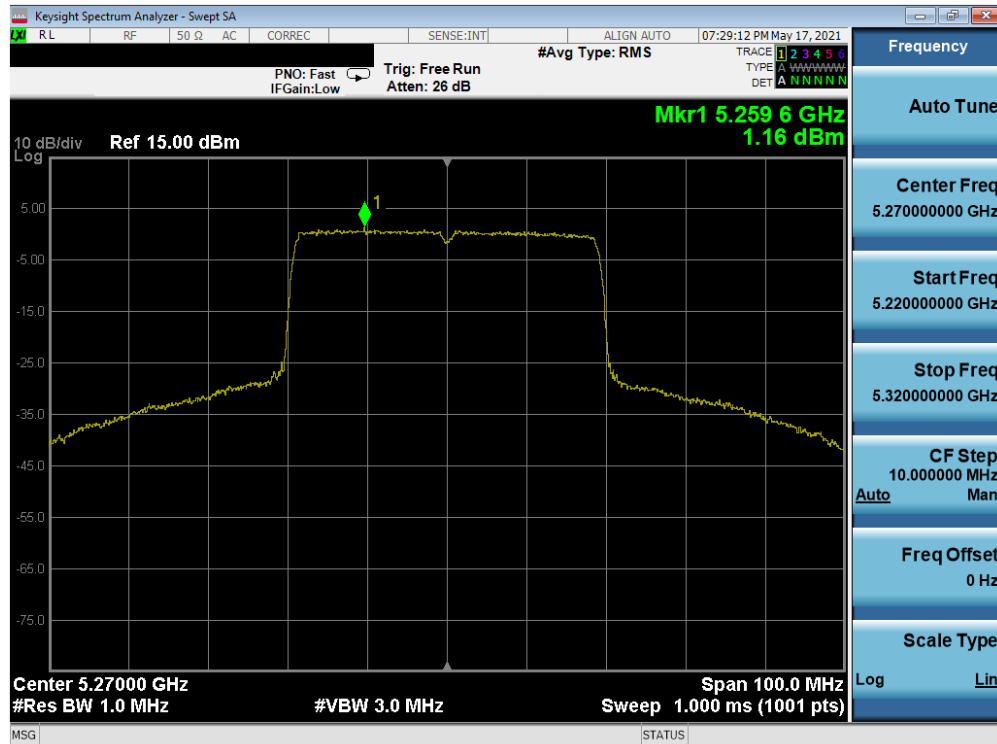


Plot 7-305. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 219 of 413

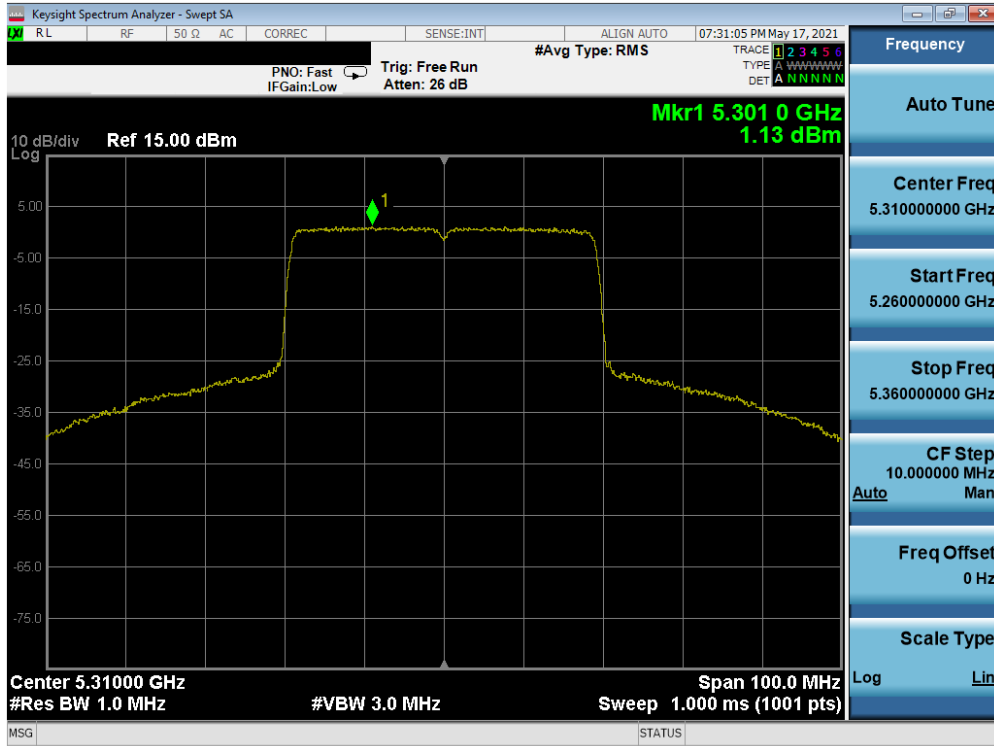


Plot 7-306. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

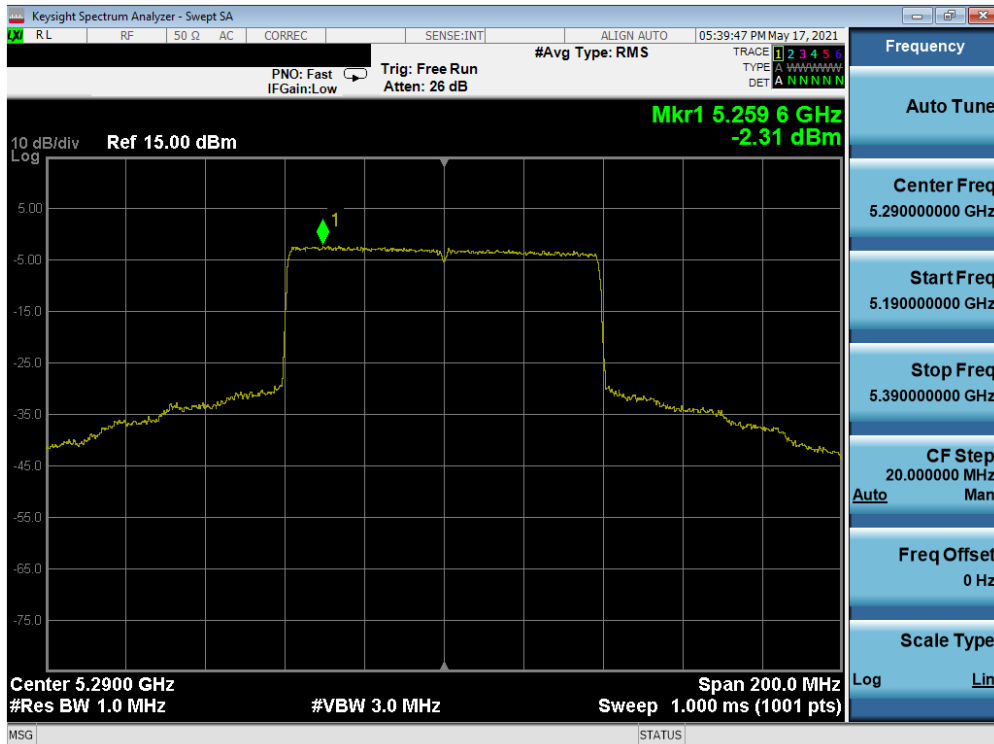


Plot 7-307. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 220 of 413

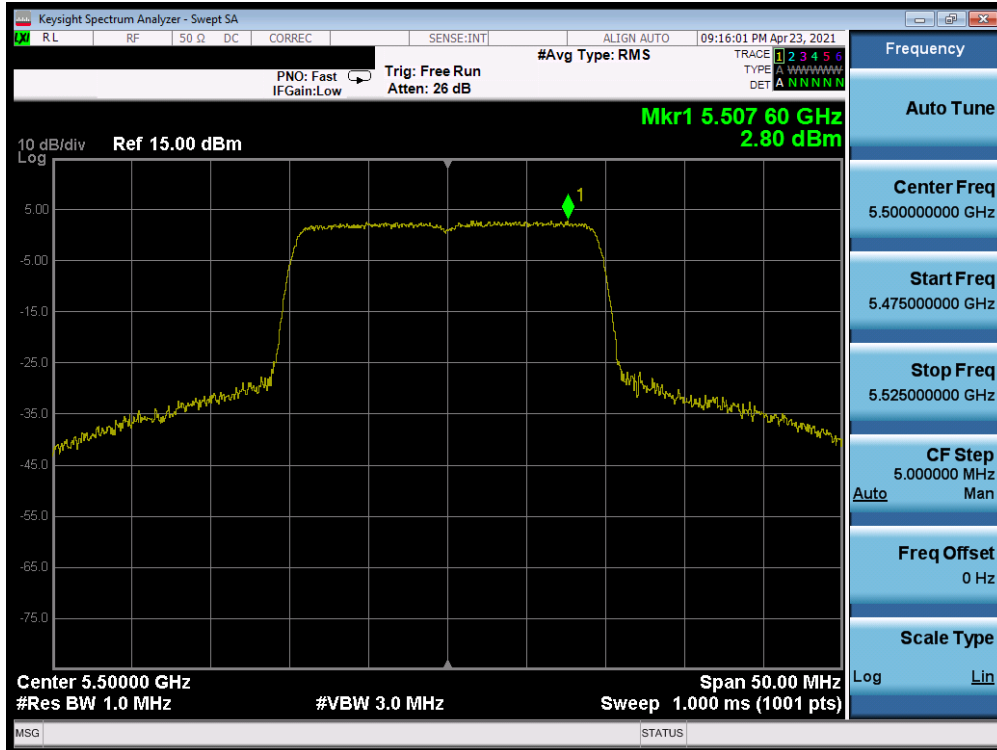


Plot 7-308. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

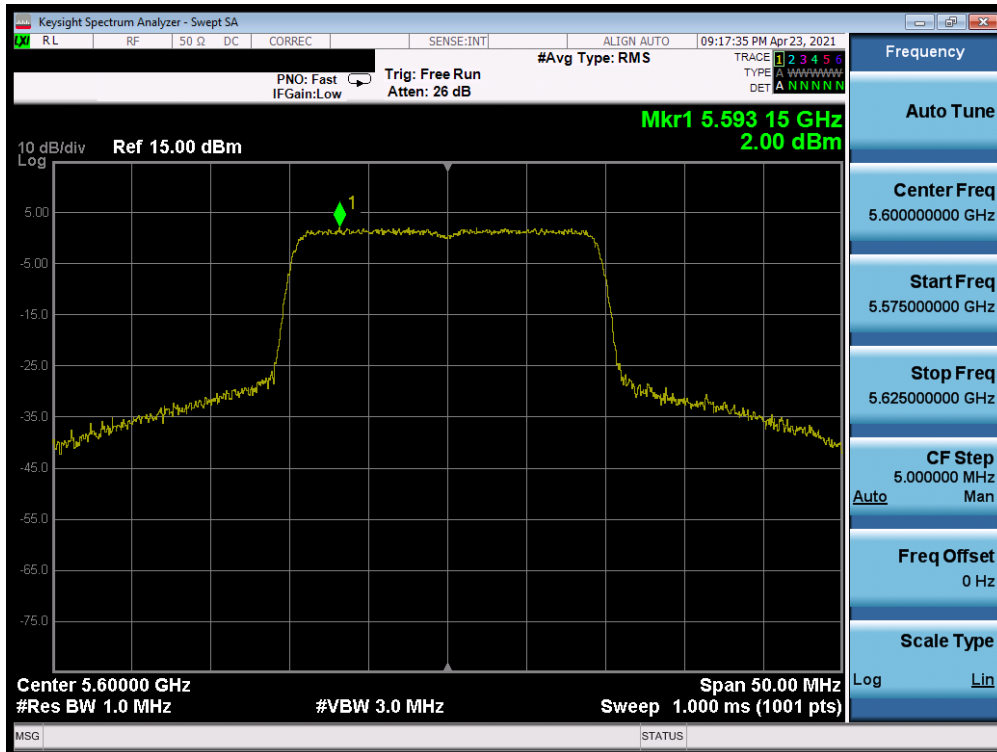


Plot 7-309. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 221 of 413

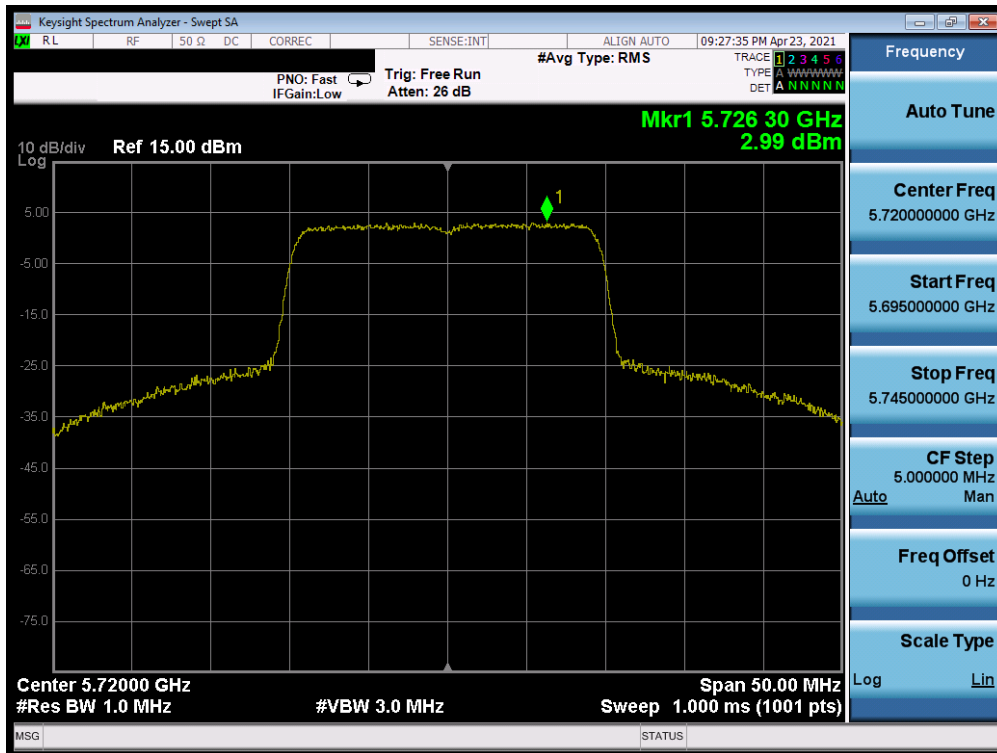


Plot 7-310. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

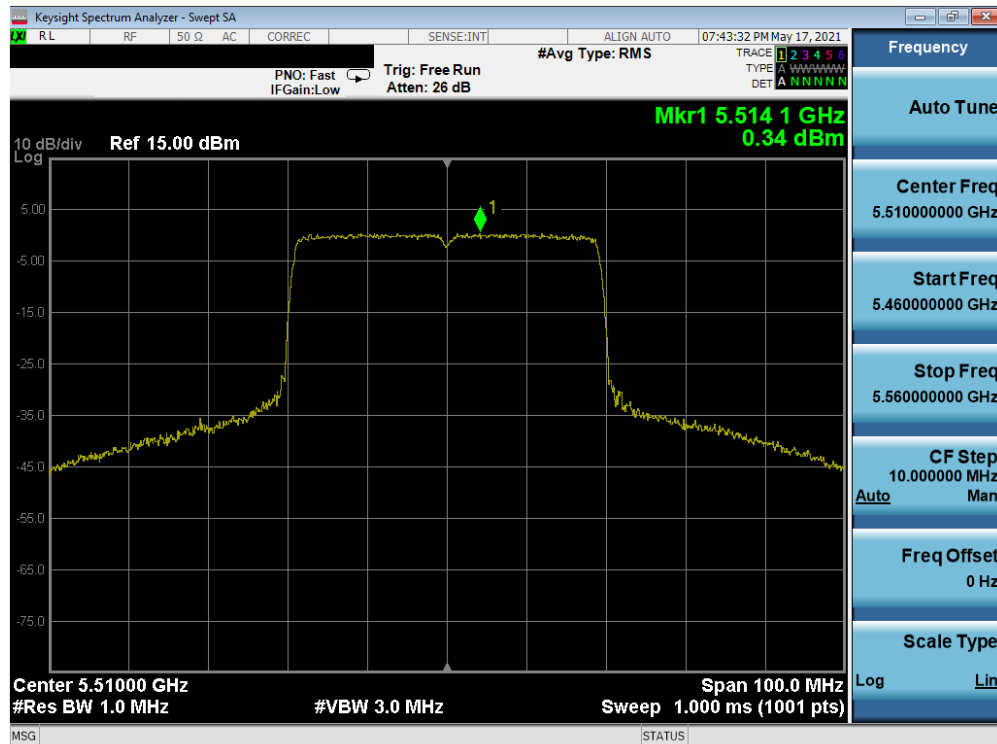


Plot 7-311. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 222 of 413

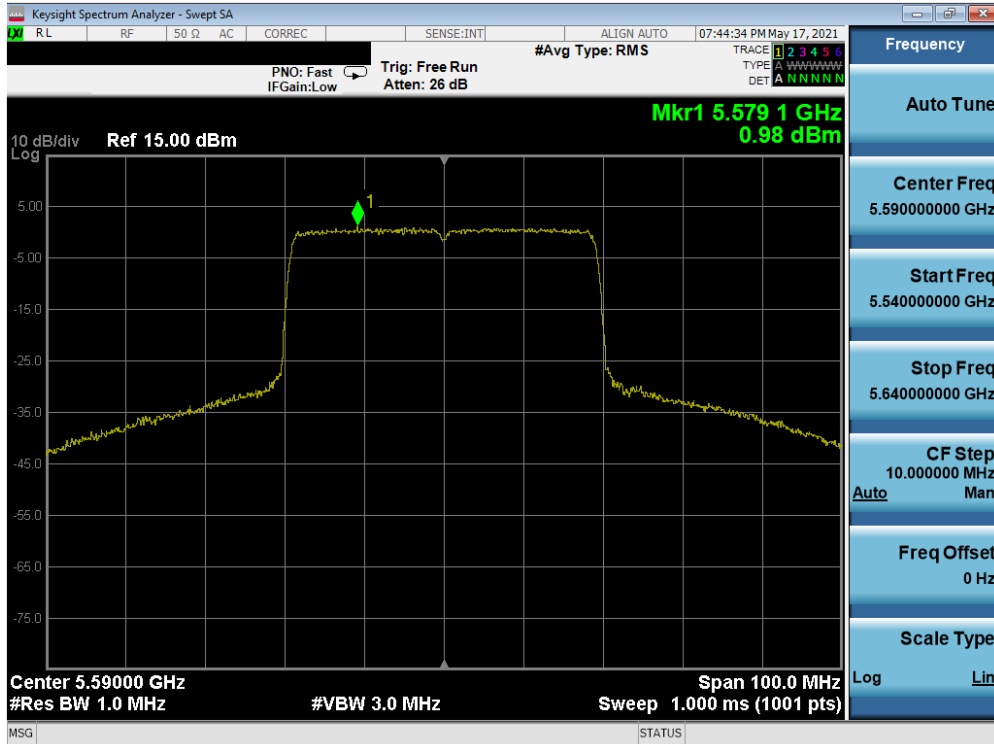


Plot 7-312. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

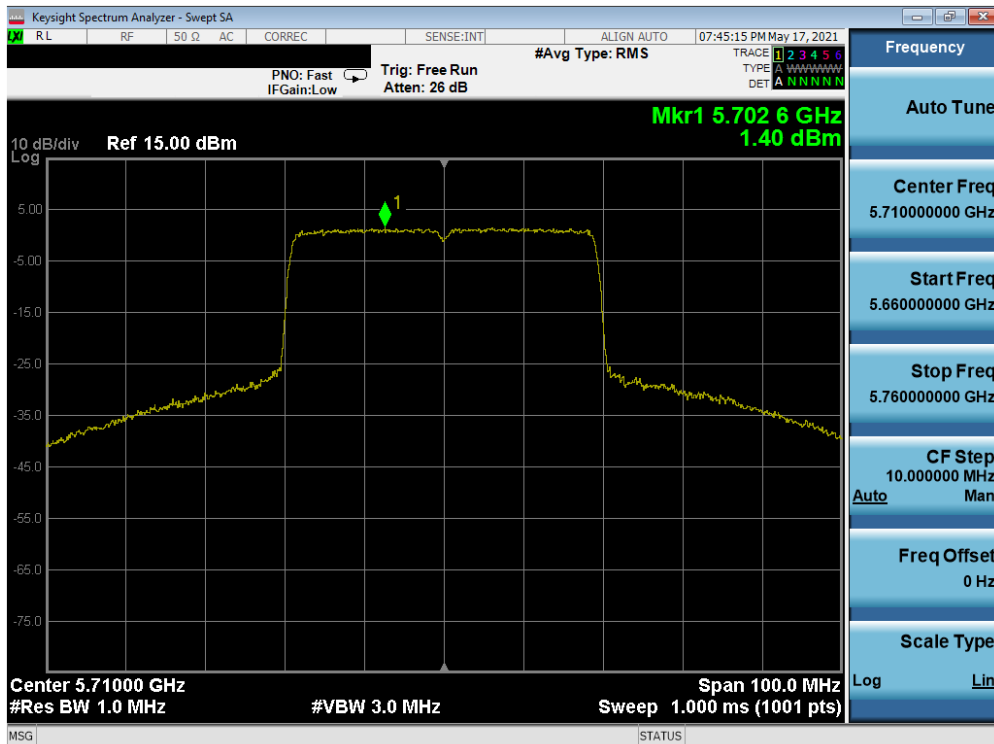


Plot 7-313. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 223 of 413

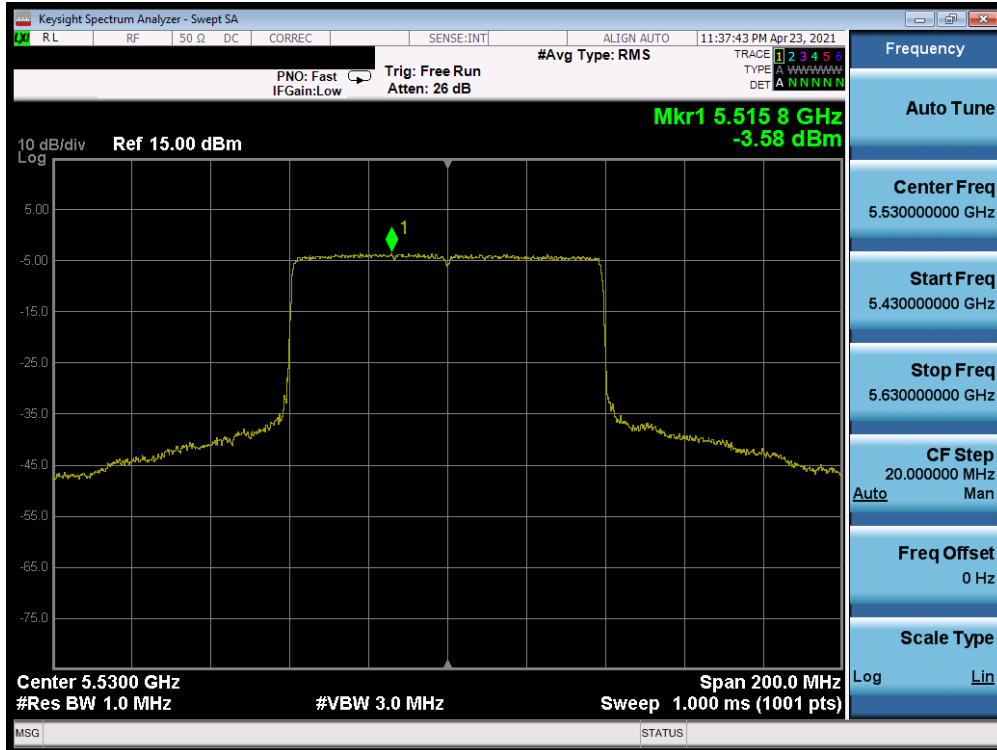


Plot 7-314. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

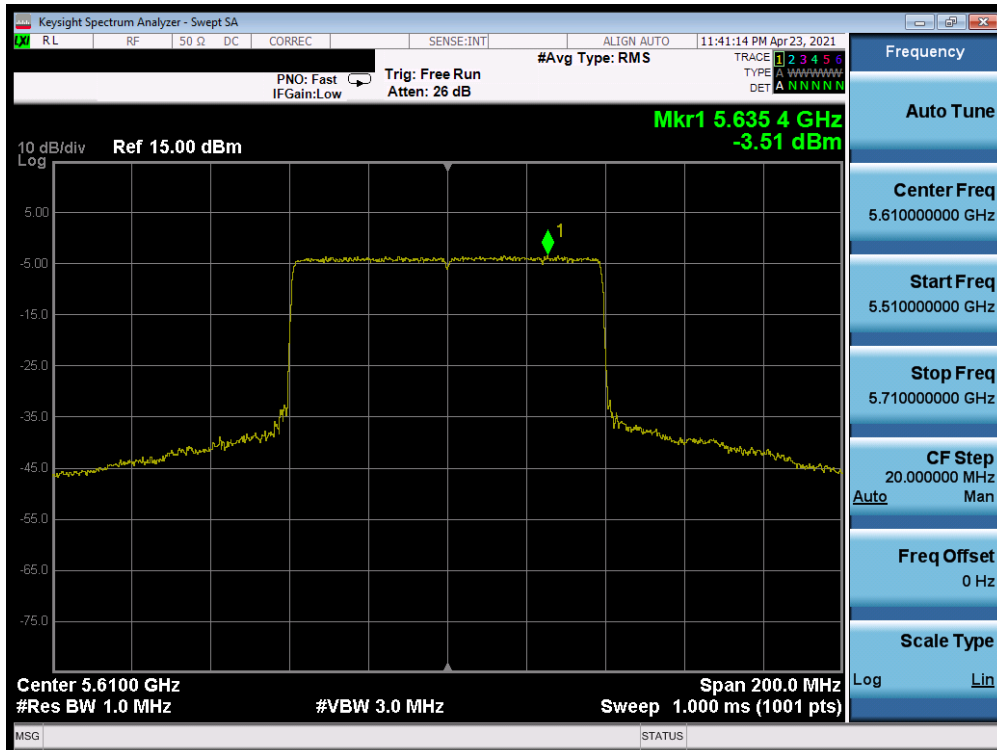


Plot 7-315. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 224 of 413

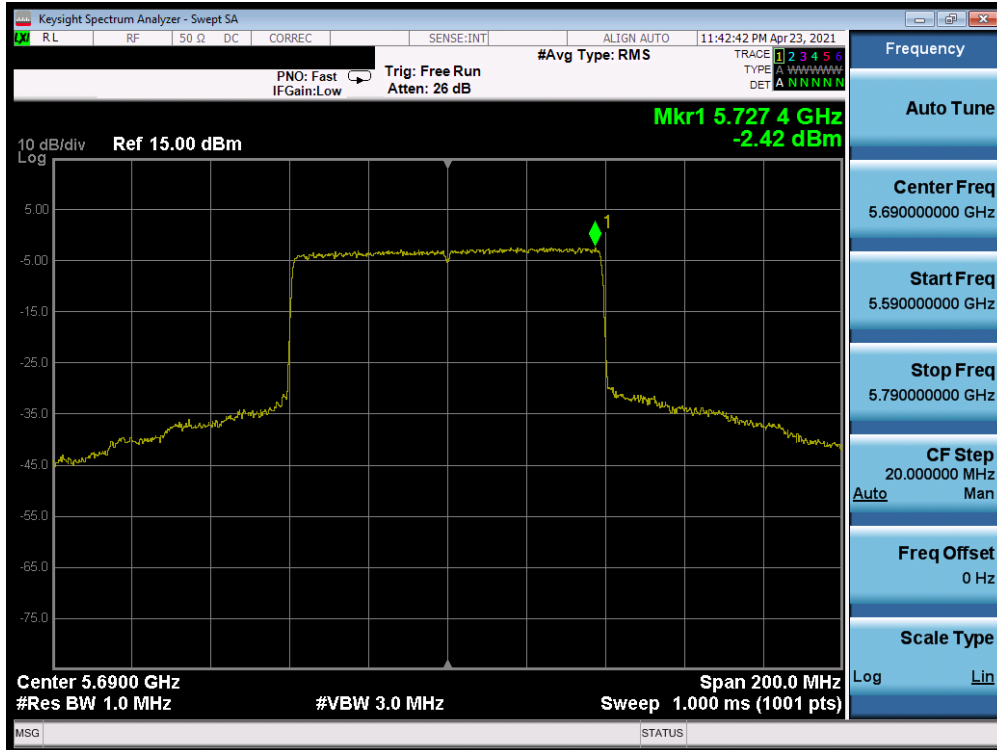


Plot 7-316. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)



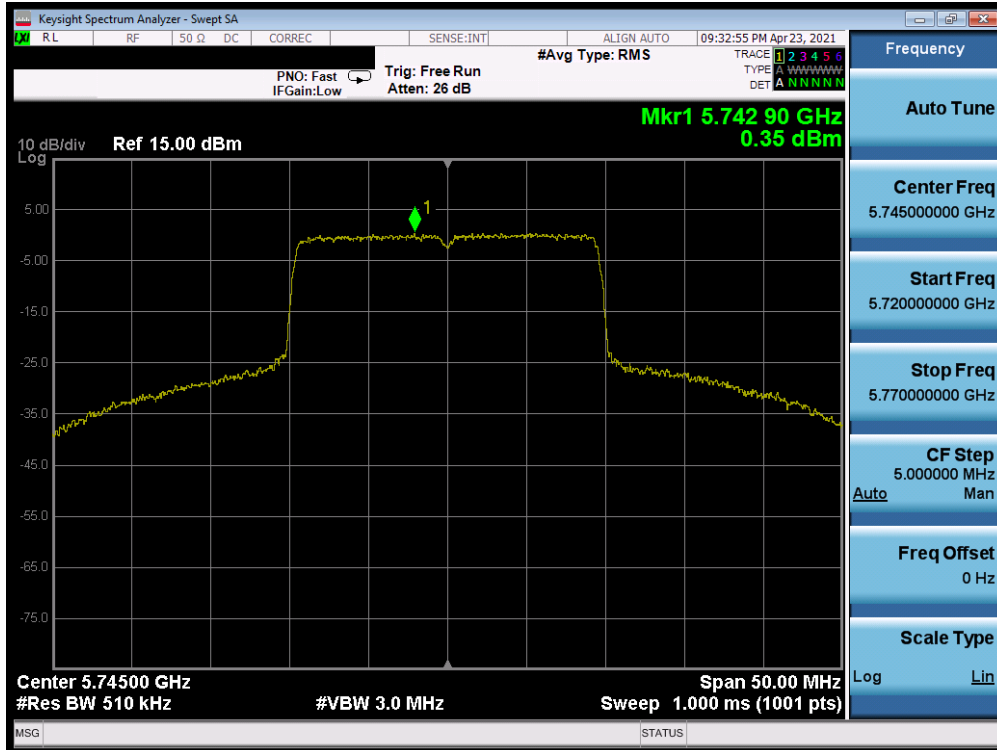
Plot 7-317. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 225 of 413

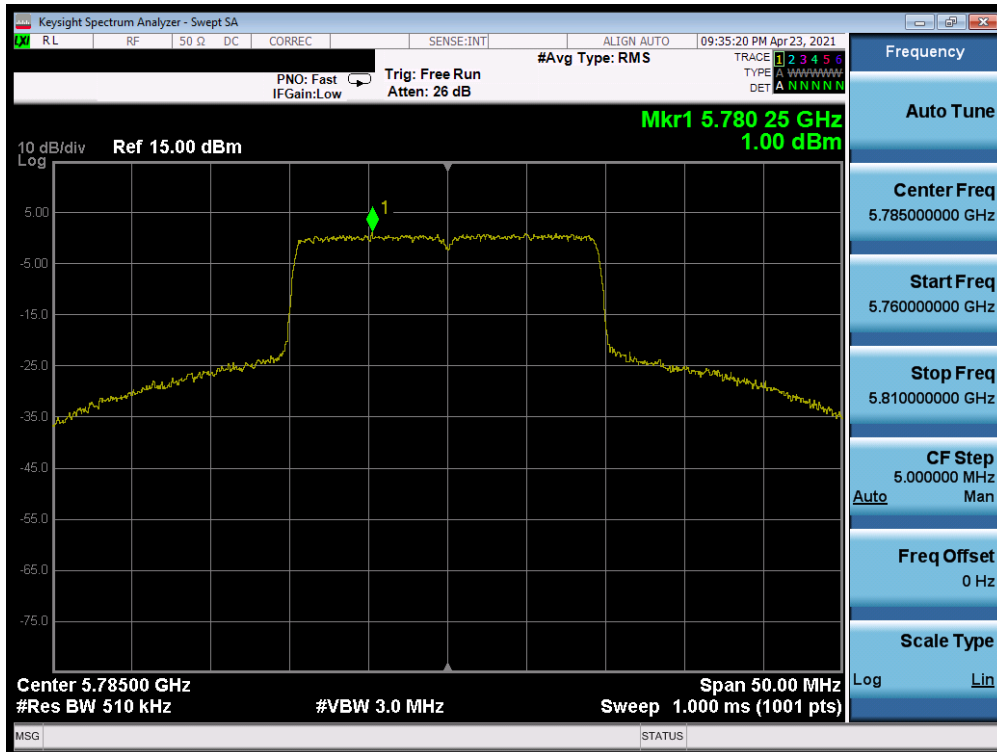


Plot 7-318. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 226 of 413

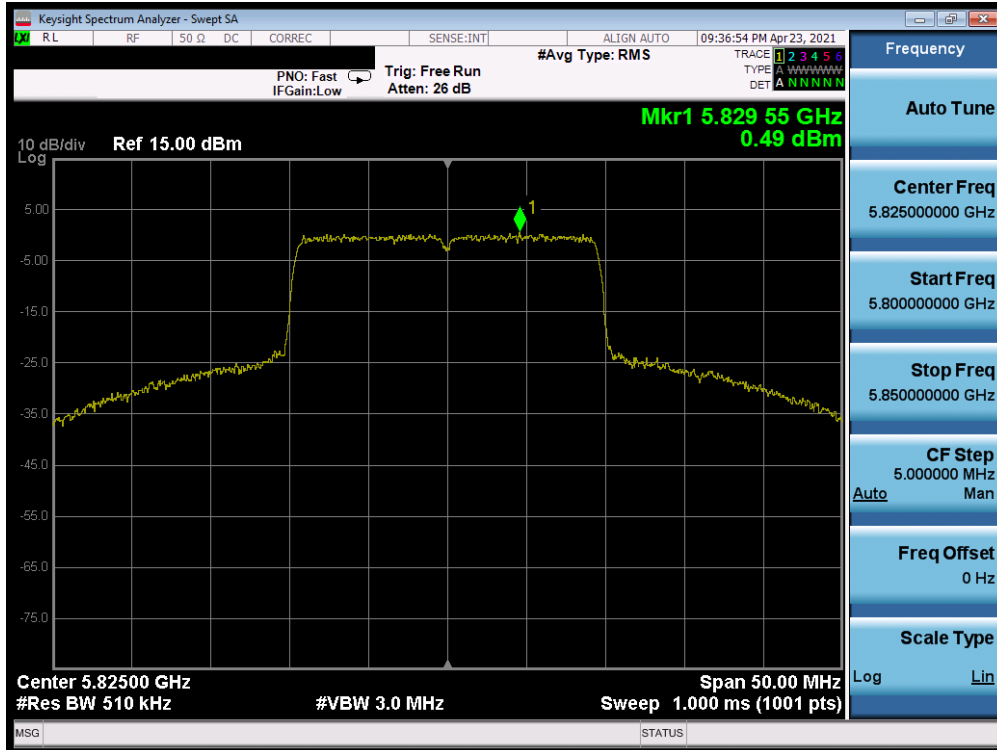


Plot 7-319. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

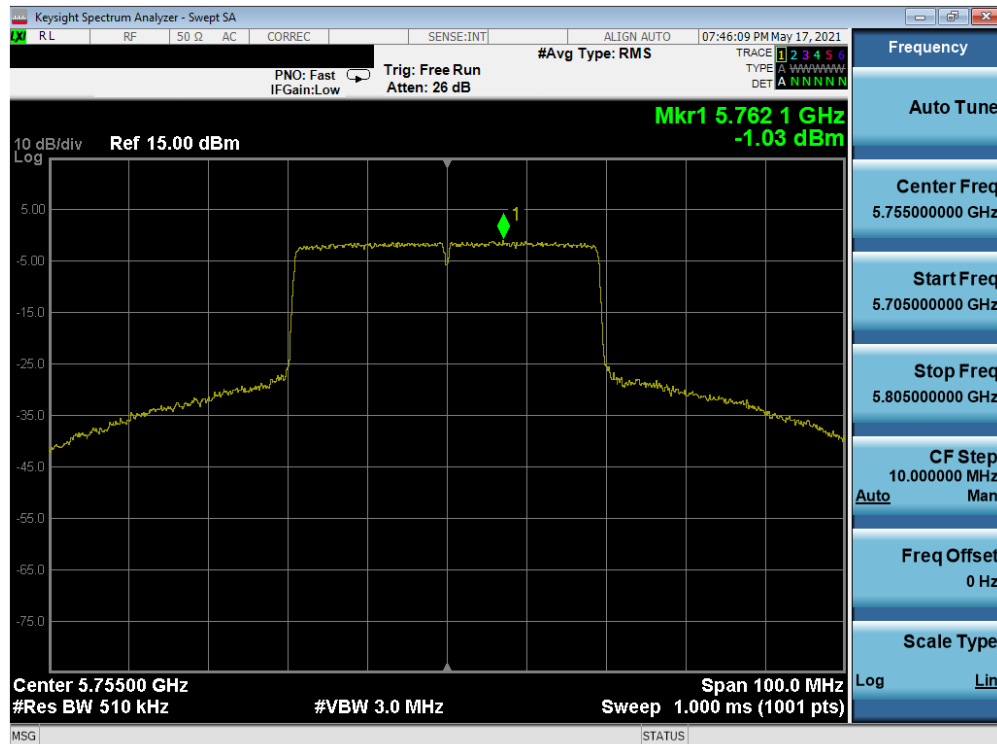


Plot 7-320. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 227 of 413

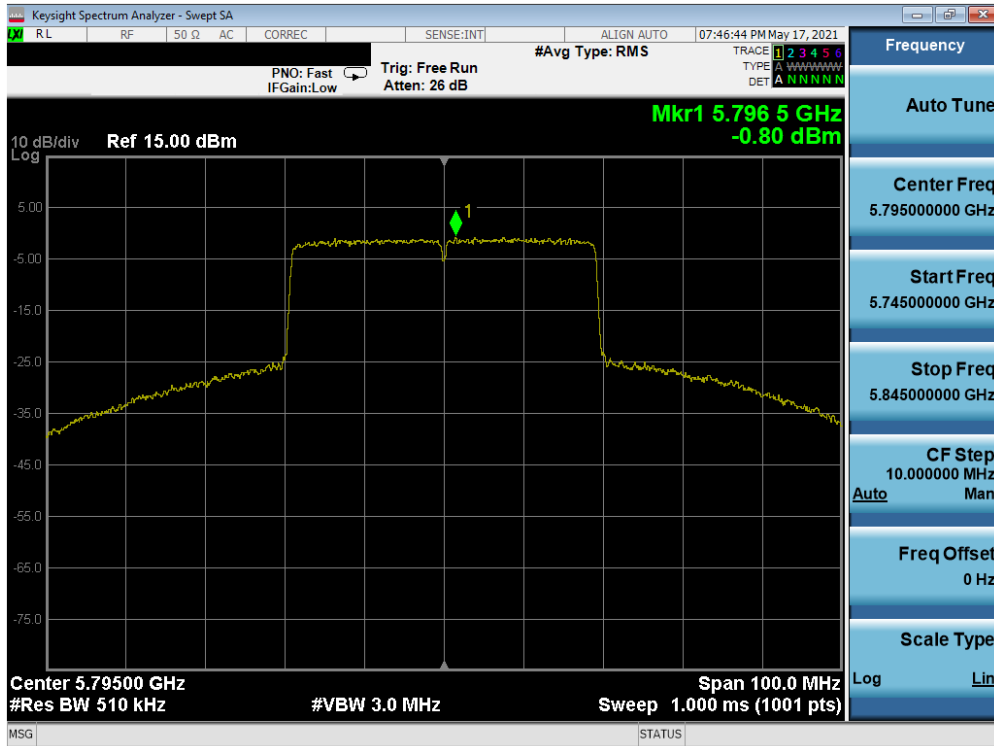


Plot 7-321. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

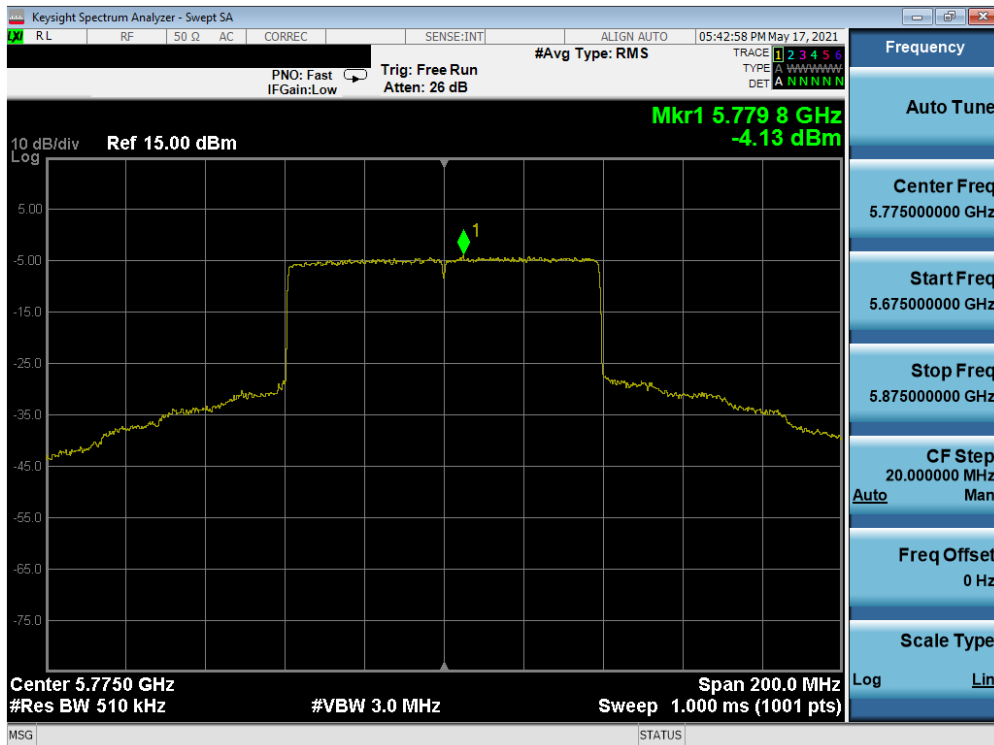


Plot 7-322. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 228 of 413



Plot 7-323. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-324. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 229 of 413

Summed MIMO Power Spectral Density Measurements (26 Tones) – N

	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	6.31	5.89	9.12	11.00	-1.88
	5200	40	ax (20MHz)	26T	MCS0	5.65	5.91	8.79	11.00	-2.21
	5240	48	ax (20MHz)	26T	MCS0	6.86	7.57	10.24	11.00	-0.76
	5190	38	ax (40MHz)	26T	MCS0	7.23	6.26	9.78	11.00	-1.22
	5230	46	ax (40MHz)	26T	MCS0	6.36	7.43	9.93	11.00	-1.07
	5210	42	ax (80MHz)	26T	MCS0	6.41	7.75	10.14	11.00	-0.86
Band 2A	5260	52	ax (20MHz)	26T	MCS0	6.84	7.65	10.27	11.00	-0.73
	5280	56	ax (20MHz)	26T	MCS0	6.37	5.99	9.20	11.00	-1.80
	5320	64	ax (20MHz)	26T	MCS0	6.09	7.80	10.04	11.00	-0.96
	5270	54	ax (40MHz)	26T	MCS0	7.21	7.53	10.38	11.00	-0.62
	5310	62	ax (40MHz)	26T	MCS0	6.67	7.68	10.21	11.00	-0.79
	5290	58	ax (80MHz)	26T	MCS0	6.26	7.07	9.69	11.00	-1.31
Band 2C	5500	100	ax (20MHz)	26T	MCS0	7.04	7.15	10.10	11.00	-0.90
	5600	120	ax (20MHz)	26T	MCS0	6.63	6.24	9.45	11.00	-1.55
	5720	144	ax (20MHz)	26T	MCS0	5.44	5.80	8.63	11.00	-2.37
	5510	102	ax (40MHz)	26T	MCS0	7.00	7.68	10.37	11.00	-0.63
	5590	118	ax (40MHz)	26T	MCS0	7.65	7.16	10.42	11.00	-0.58
	5710	142	ax (40MHz)	26T	MCS0	6.38	6.99	9.71	11.00	-1.29
	5530	106	ax (80MHz)	26T	MCS0	7.62	6.82	10.25	11.00	-0.75
	5610	122	ax (80MHz)	26T	MCS0	6.65	5.71	9.21	11.00	-1.79
5690	138	ax (80MHz)	26T	MCS0	5.97	6.04	9.01	11.00	-1.99	

Table 7-86. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (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 Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	4.01	3.88	6.96	30.00	-23.04
	5785	157	ax (20MHz)	26T	MCS0	4.13	4.47	7.31	30.00	-22.69
	5825	165	ax (20MHz)	26T	MCS0	4.07	4.32	7.21	30.00	-22.79
	5755	151	ax (40MHz)	26T	MCS0	4.75	4.16	7.47	30.00	-22.53
	5795	159	ax (40MHz)	26T	MCS0	5.07	4.70	7.90	30.00	-22.10
	5775	155	ax (80MHz)	26T	MCS0	4.75	4.46	7.62	30.00	-22.38

Table 7-87. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 230 of 413

Summed MIMO Power Spectral Density Measurements (Full Tones) – N

	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	1.65	0.41	4.09	11.00	-6.91
	5200	40	ax (20MHz)	242T	MCS0	2.19	1.36	4.81	11.00	-6.19
	5240	48	ax (20MHz)	242T	MCS0	2.06	2.93	5.53	11.00	-5.47
	5190	38	ax (40MHz)	484T	MCS0	-2.56	-1.77	0.86	11.00	-10.14
	5230	46	ax (40MHz)	484T	MCS0	-0.69	0.38	2.88	11.00	-8.12
Band 2A	5210	42	ax (80MHz)	996T	MCS0	-5.62	-5.05	-2.31	11.00	-13.31
	5260	52	ax (20MHz)	242T	MCS0	2.12	3.54	5.90	11.00	-5.10
	5280	56	ax (20MHz)	242T	MCS0	2.25	2.54	5.41	11.00	-5.59
	5320	64	ax (20MHz)	242T	MCS0	2.65	3.71	6.22	11.00	-4.78
	5270	54	ax (40MHz)	484T	MCS0	-0.80	-0.86	2.18	11.00	-8.82
Band 2C	5310	62	ax (40MHz)	484T	MCS0	-0.79	-0.35	2.44	11.00	-8.56
	5290	58	ax (80MHz)	996T	MCS0	-6.77	-6.46	-3.60	11.00	-14.60
	5500	100	ax (20MHz)	242T	MCS0	3.41	2.20	5.86	11.00	-5.14
	5600	120	ax (20MHz)	242T	MCS0	2.13	1.95	5.05	11.00	-5.95
	5720	144	ax (20MHz)	242T	MCS0	1.25	1.16	4.22	11.00	-6.78
	5510	102	ax (40MHz)	484T	MCS0	-0.11	-0.60	2.66	11.00	-8.34
	5590	118	ax (40MHz)	484T	MCS0	-0.72	-0.95	2.18	11.00	-8.82
	5710	142	ax (40MHz)	484T	MCS0	-0.75	-1.18	2.05	11.00	-8.95
5530	106	ax (80MHz)	996T	MCS0	-2.84	-3.36	-0.08	11.00	-11.08	
5610	122	ax (80MHz)	996T	MCS0	-4.07	-4.01	-1.03	11.00	-12.03	
5690	138	ax (80MHz)	996T	MCS0	-3.64	-4.08	-0.84	11.00	-11.84	

Table 7-88. 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	-0.90	-1.05	2.04	30.00	-27.96
	5785	157	ax (20MHz)	242T	MCS0	0.43	-0.47	3.01	30.00	-26.99
	5825	165	ax (20MHz)	242T	MCS0	0.75	-0.30	3.27	30.00	-26.73
	5755	151	ax (40MHz)	484T	MCS0	-2.81	-2.02	0.61	30.00	-29.39
	5795	159	ax (40MHz)	484T	MCS0	-3.20	-2.36	0.25	30.00	-29.75
	5775	155	ax (80MHz)	996T	MCS0	-5.52	-6.65	-3.04	30.00	-33.04

Table 7-89. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

Note:

Sample MIMO Calculation:

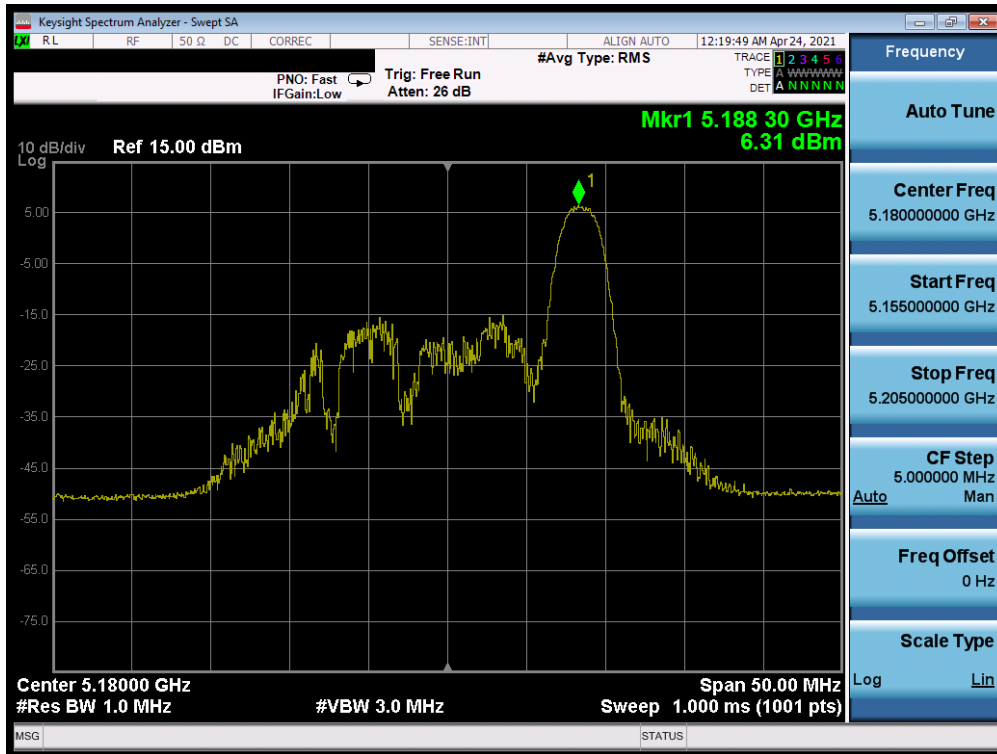
Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

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

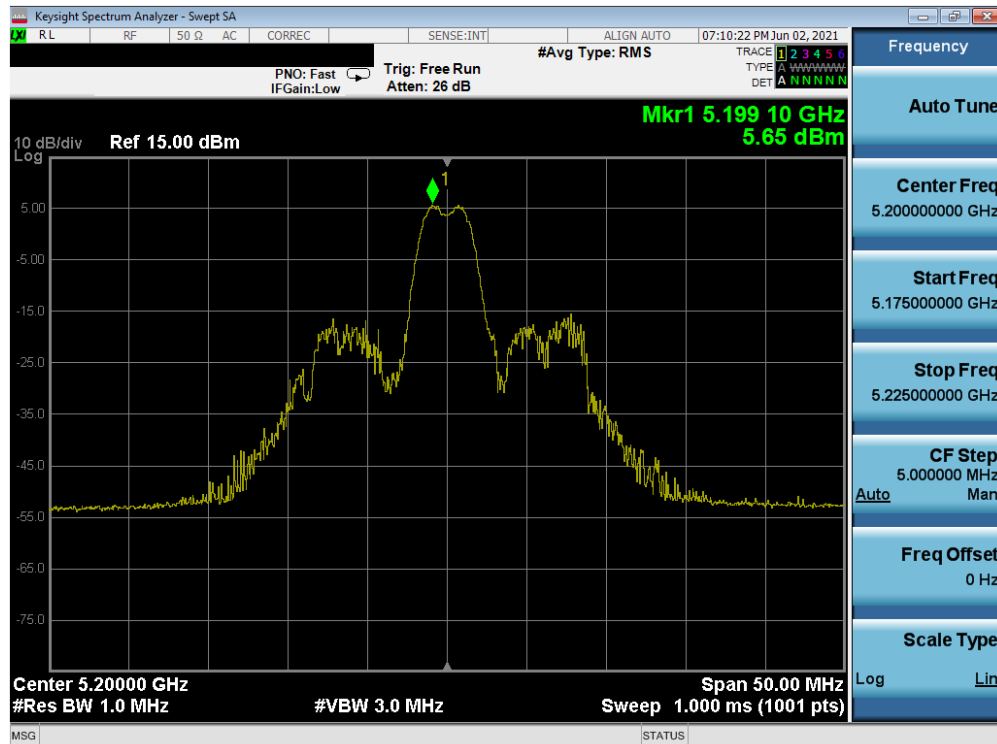
$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

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MIMO Antenna-1 Power Spectral Density Measurements (26 Tones) – N

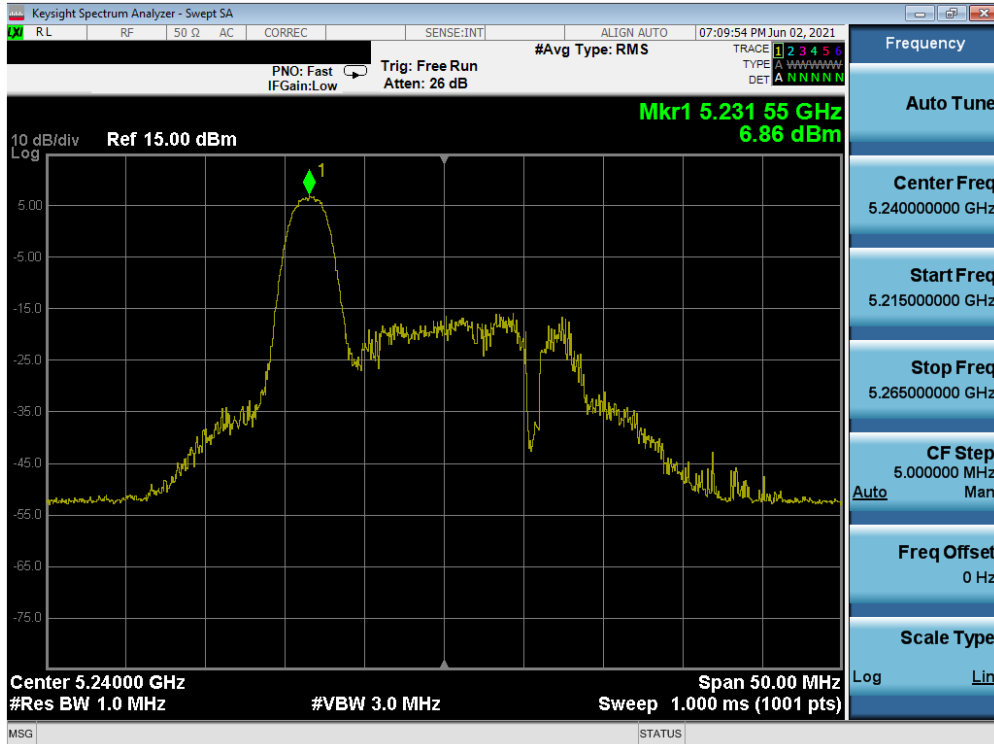


Plot 7-325. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

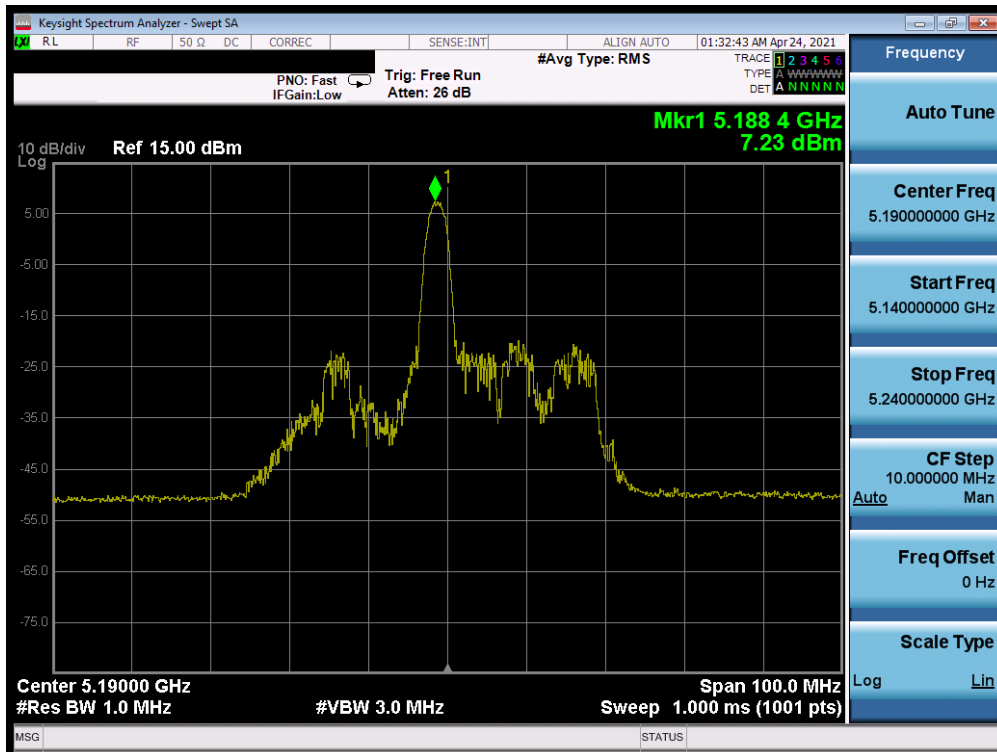


Plot 7-326. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 232 of 413

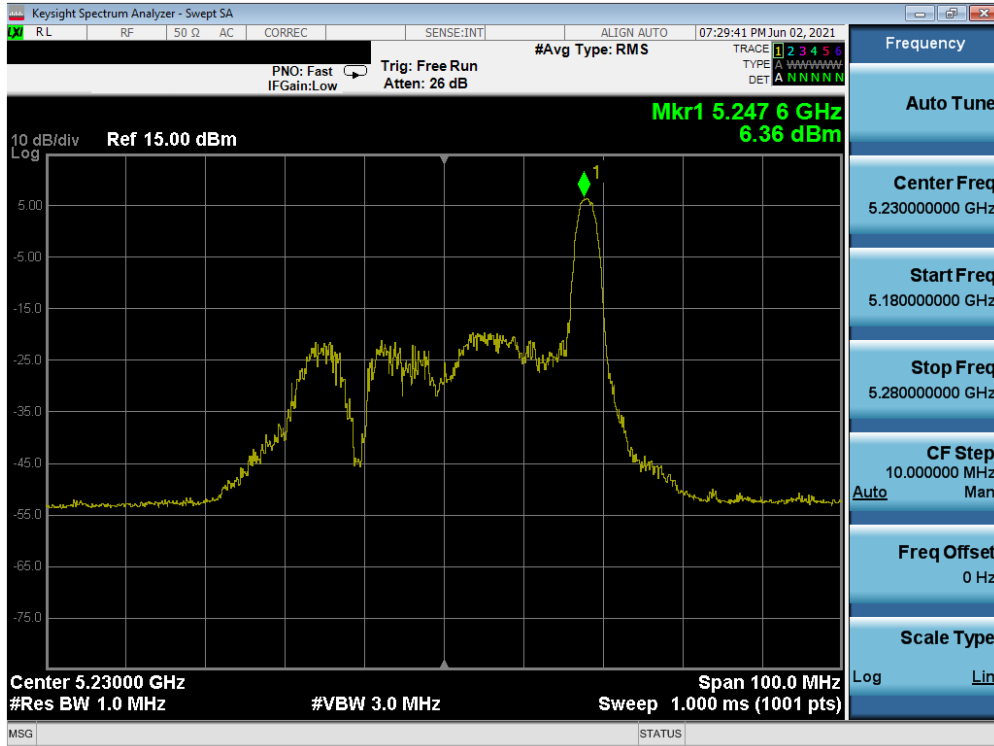


Plot 7-327. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

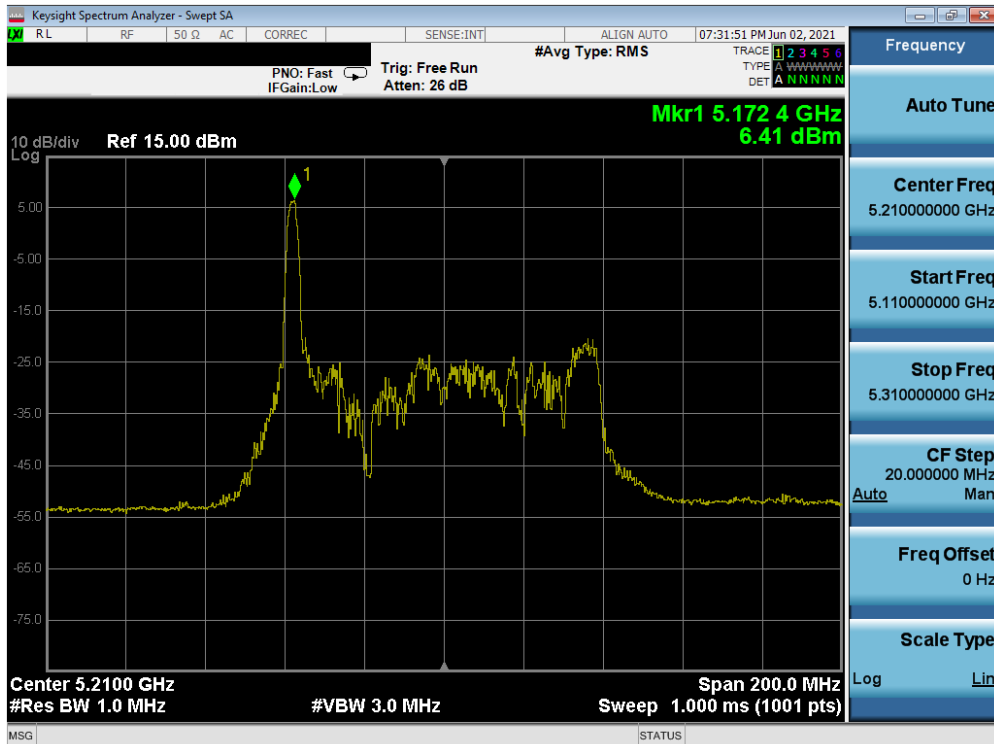


Plot 7-328. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 233 of 413

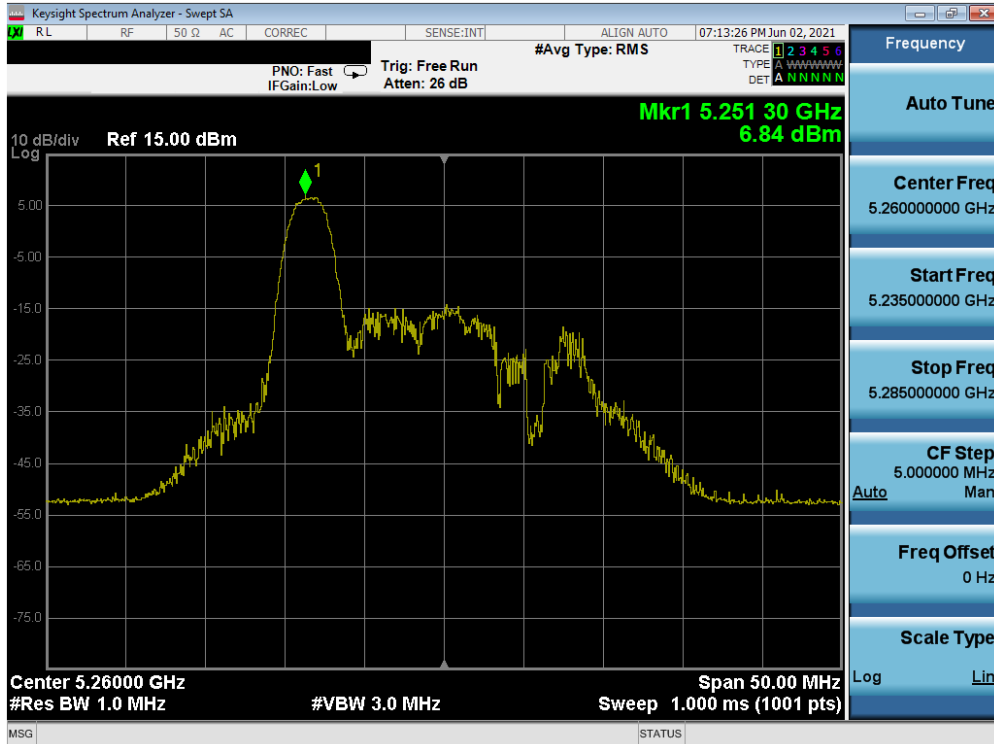


Plot 7-329. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

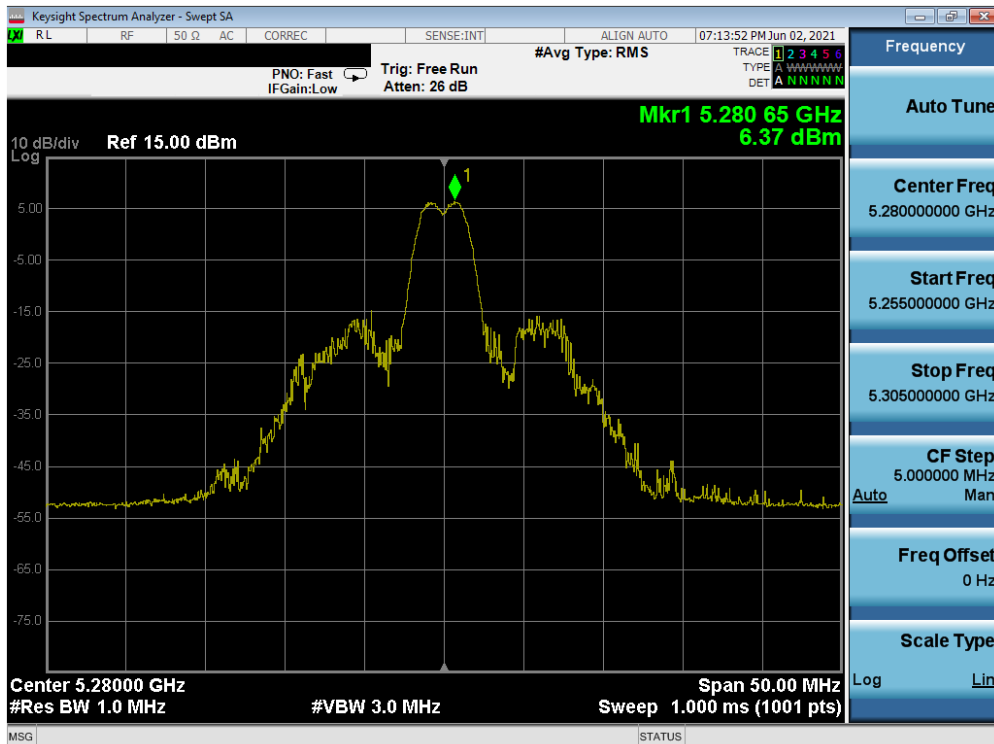


Plot 7-330. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 234 of 413

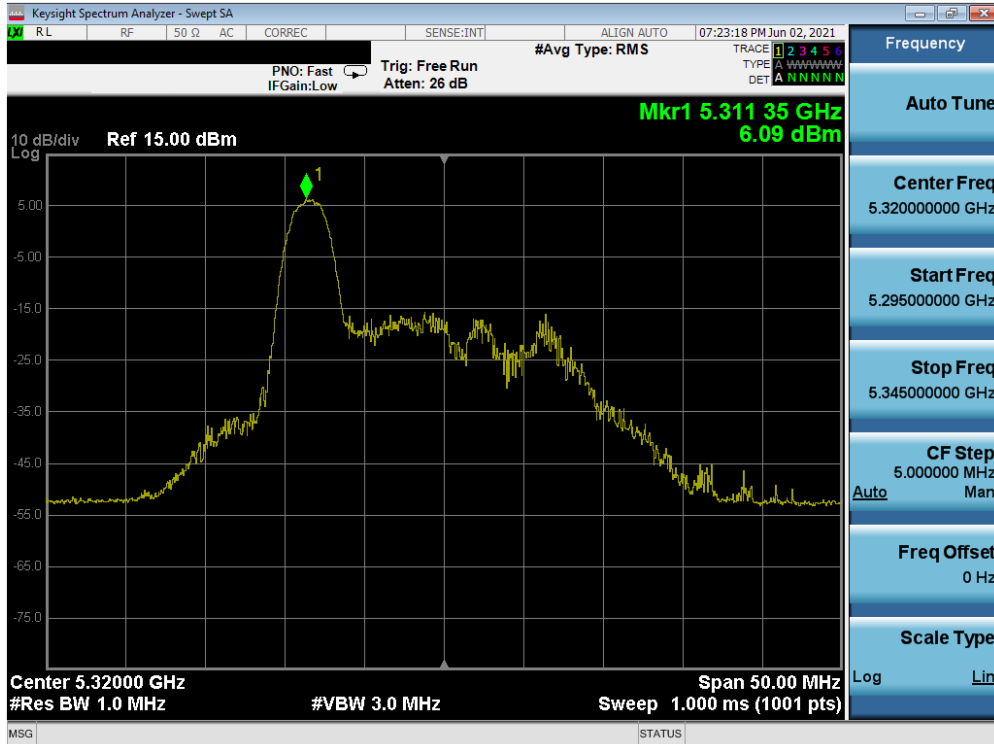


Plot 7-331. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

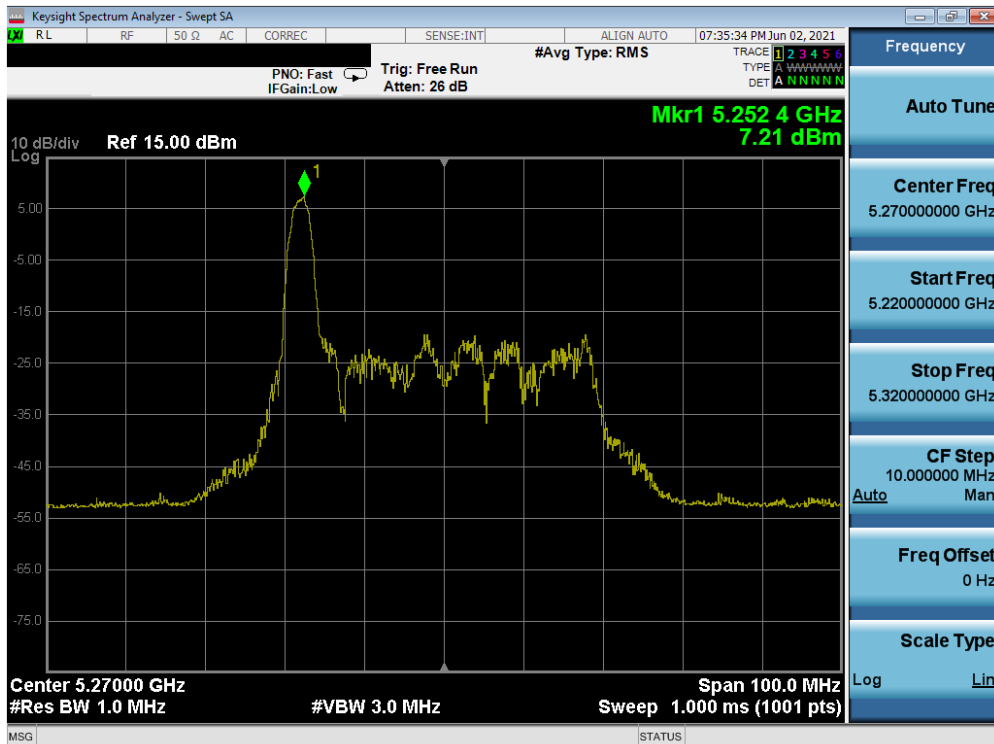


Plot 7-332. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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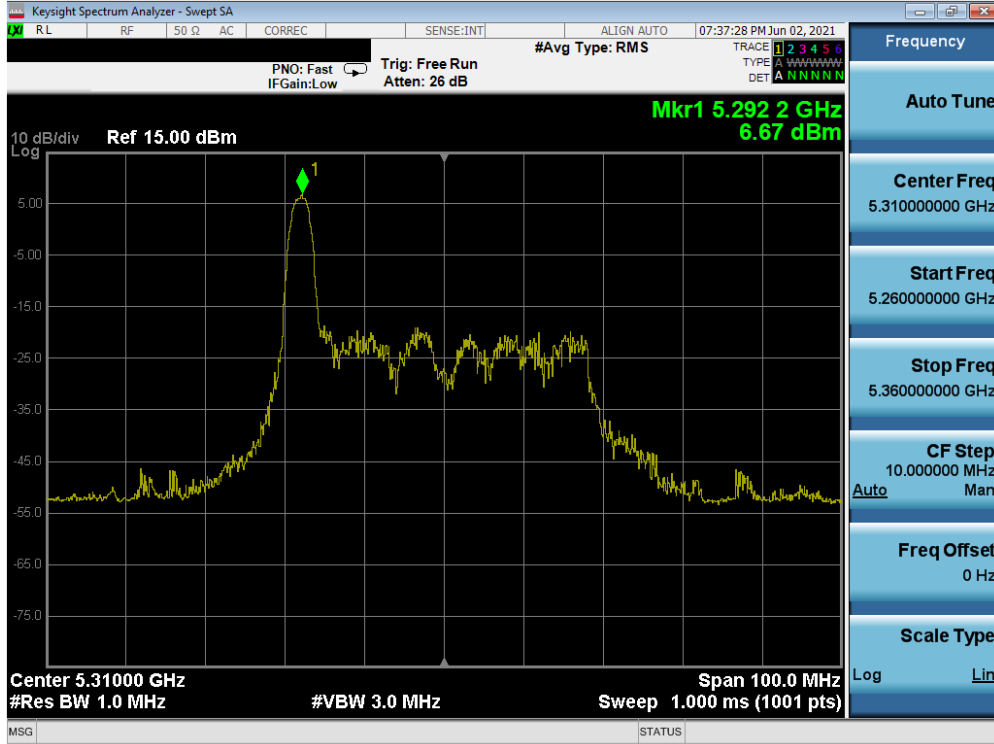


Plot 7-333. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

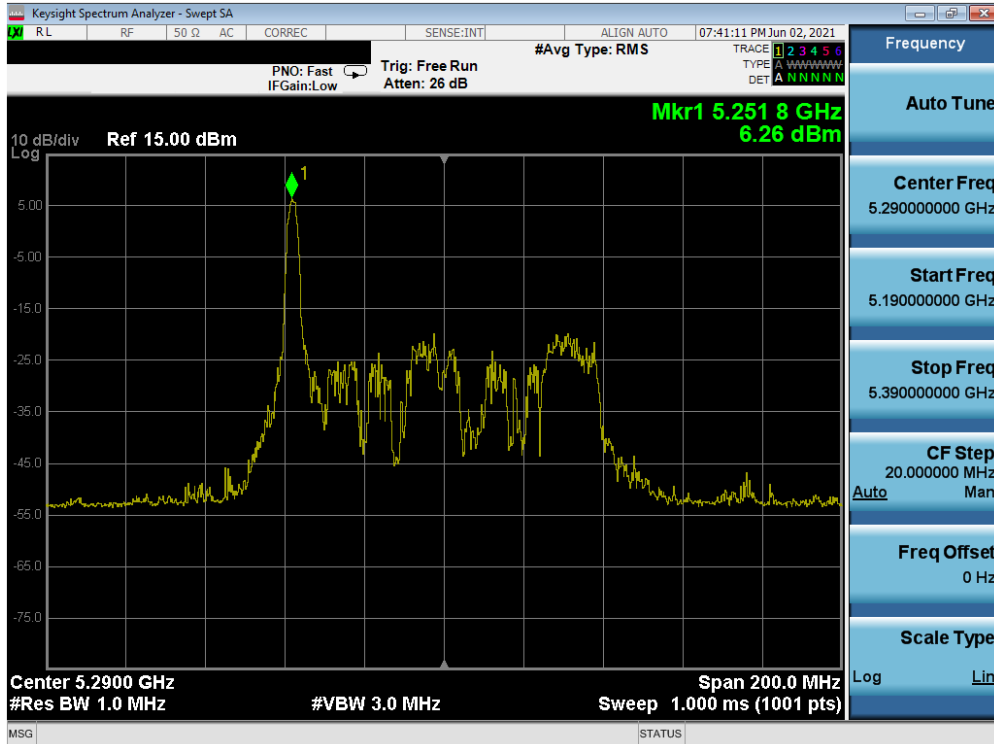


Plot 7-334. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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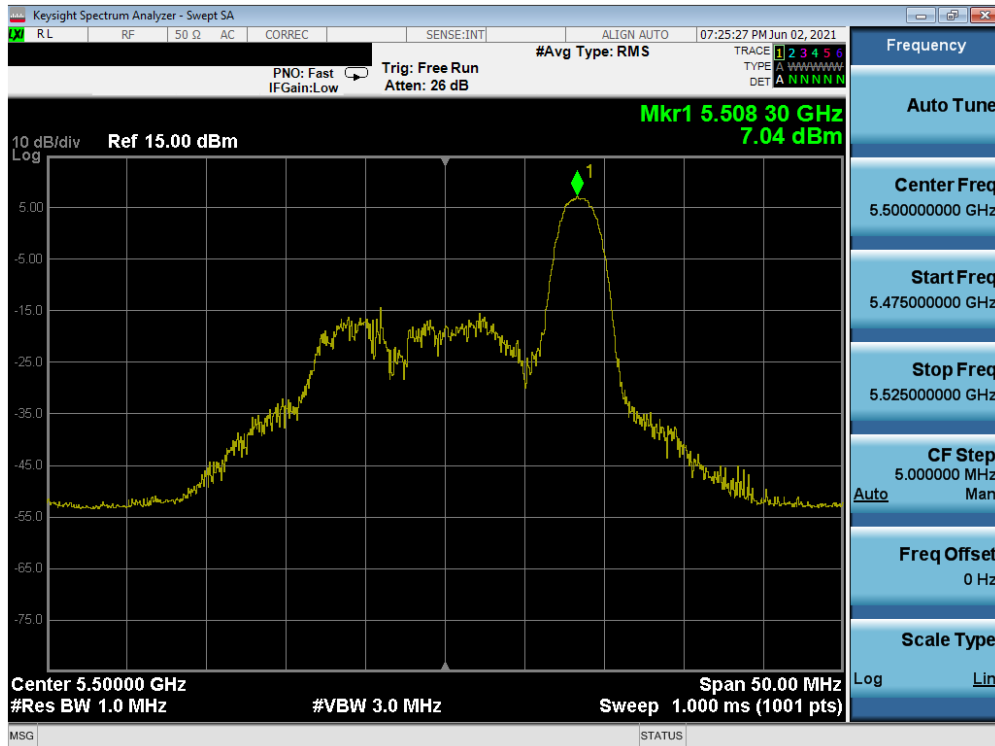


Plot 7-335. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

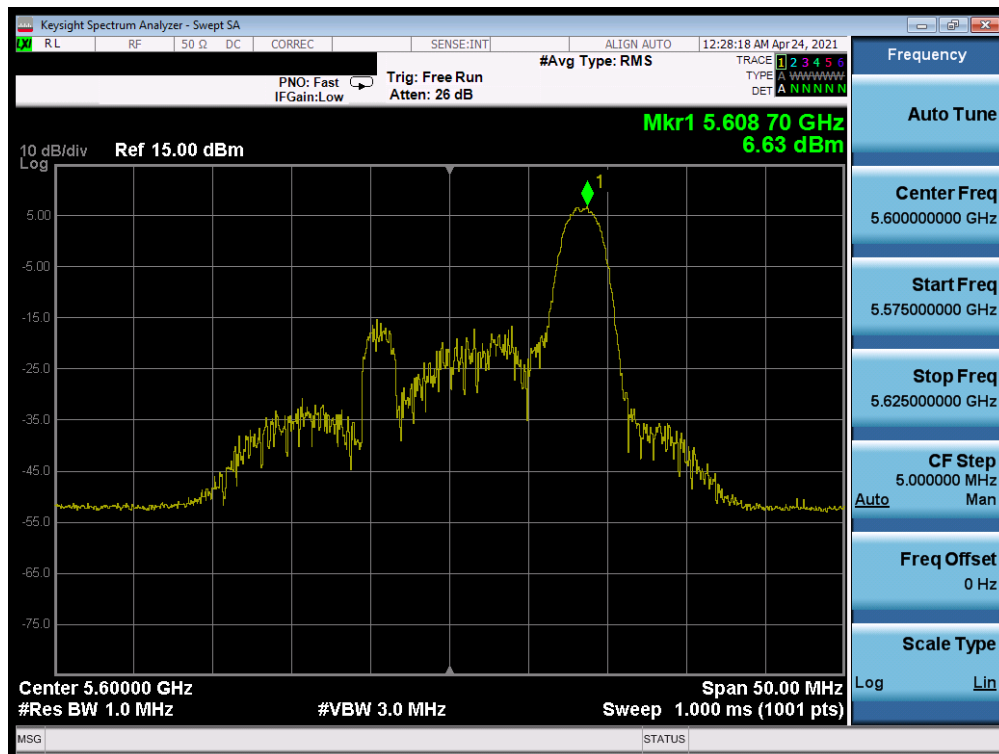


Plot 7-336. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 237 of 413

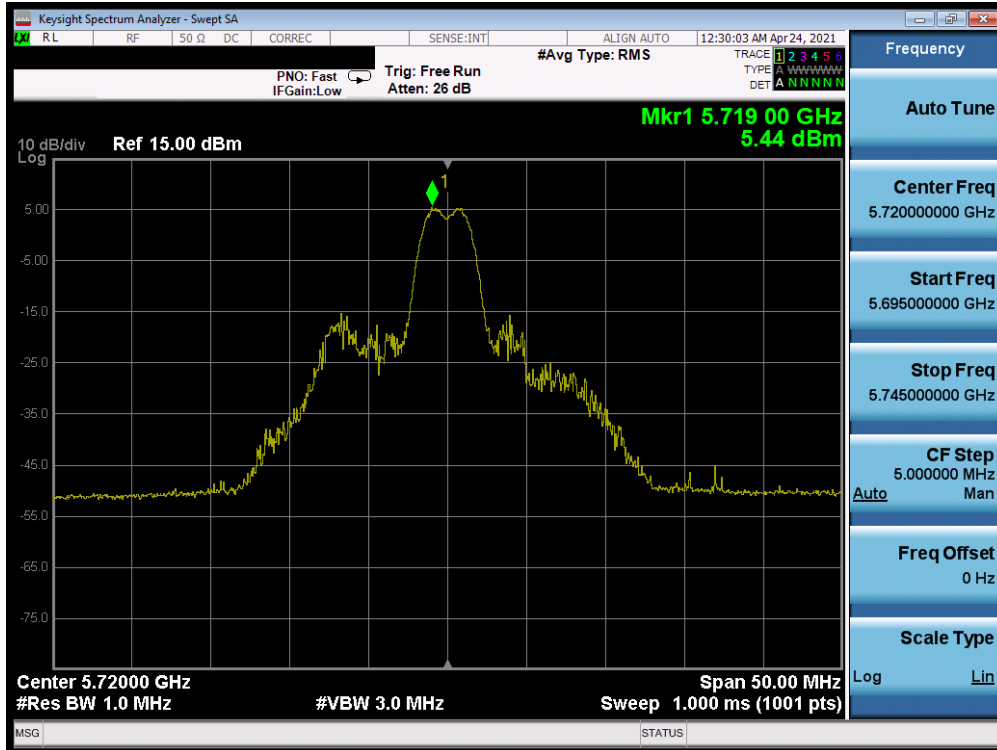


Plot 7-337. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

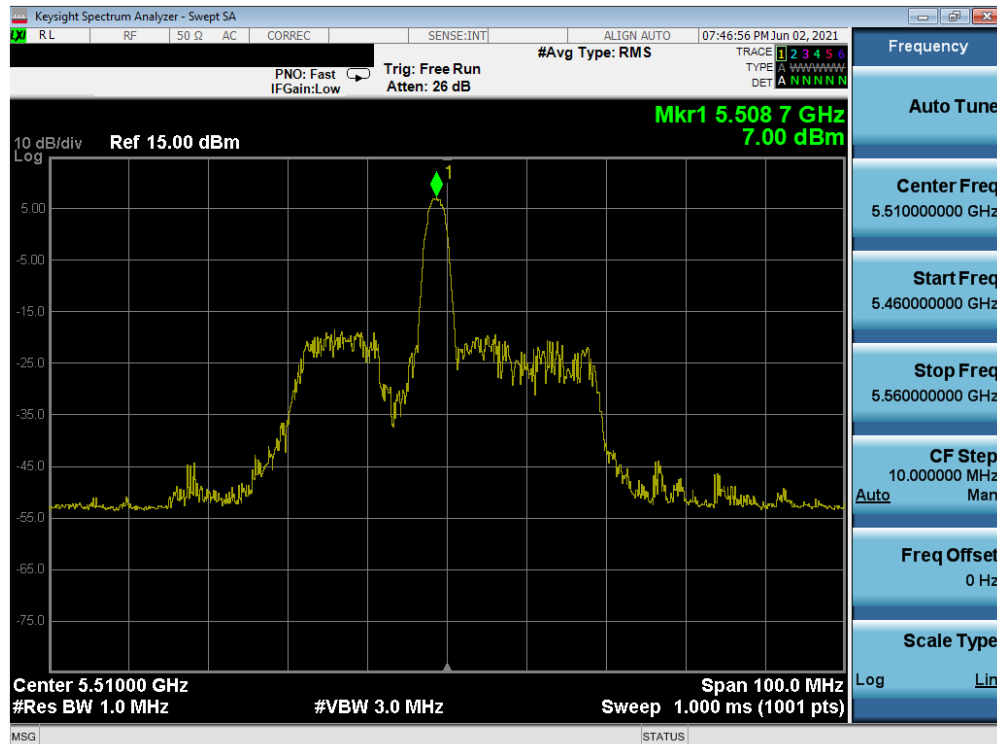


Plot 7-338. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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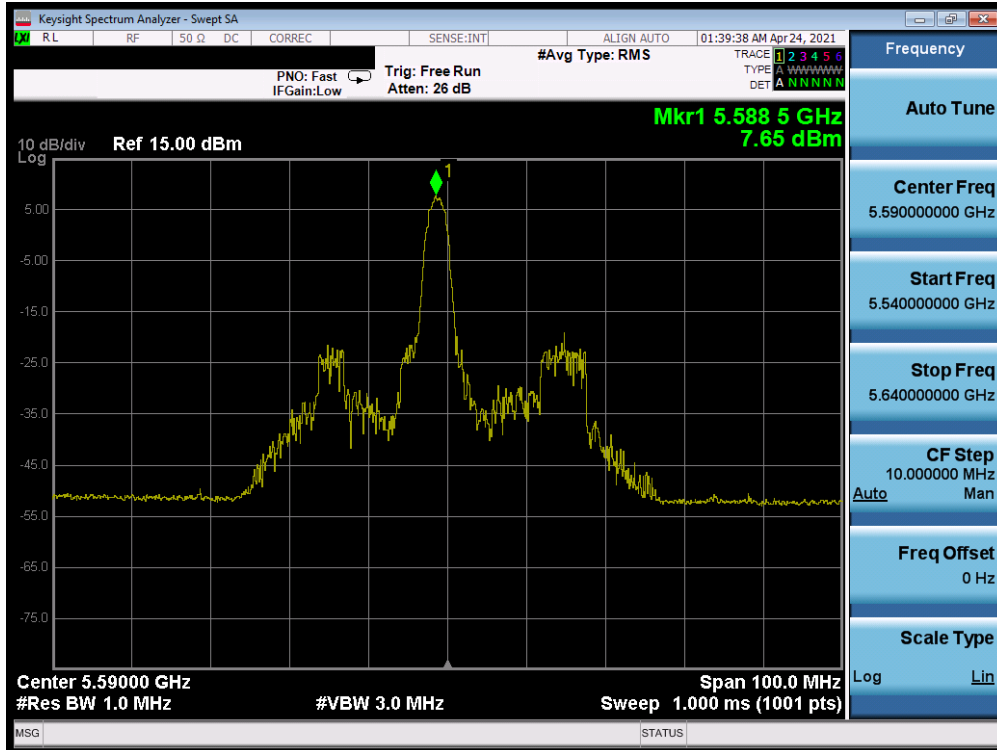


Plot 7-339. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

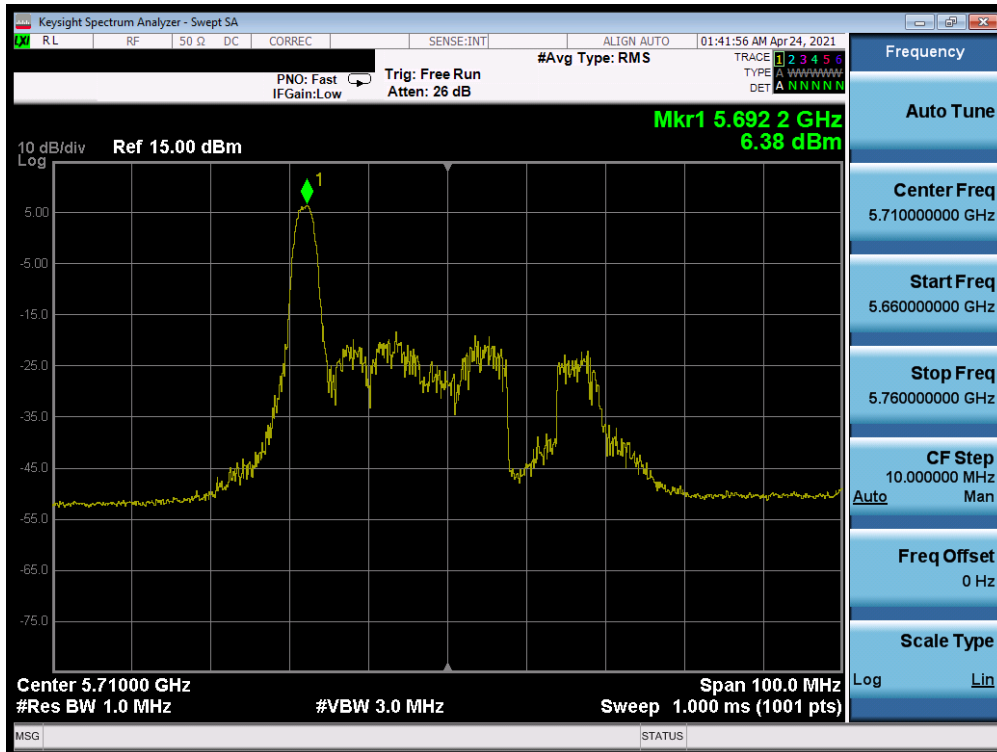


Plot 7-340. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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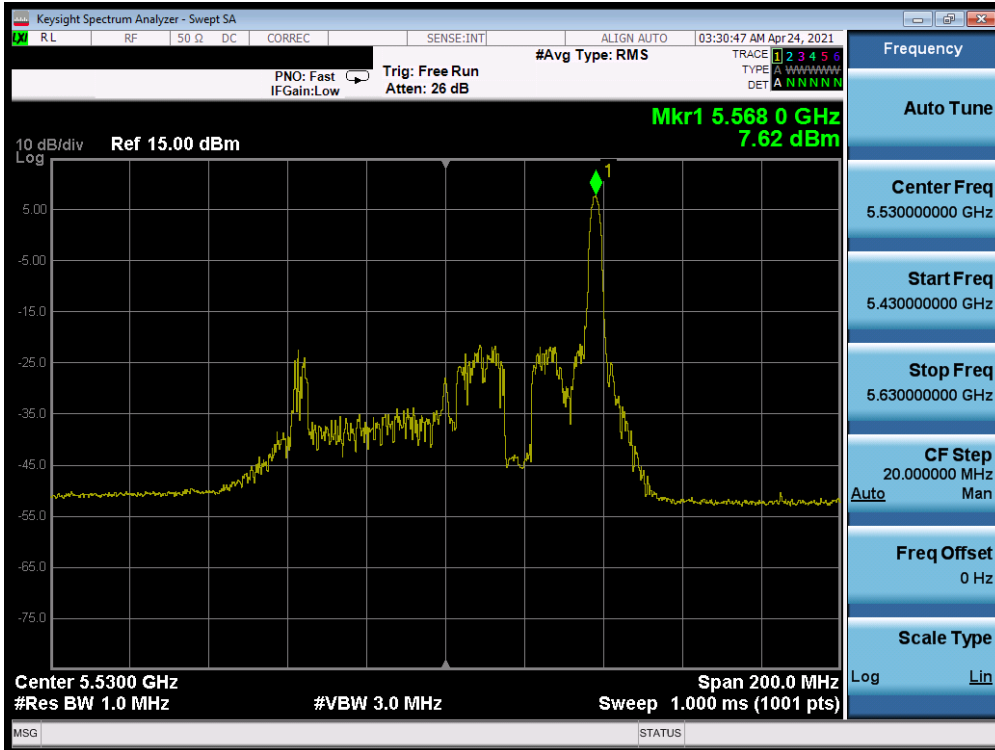


Plot 7-341. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

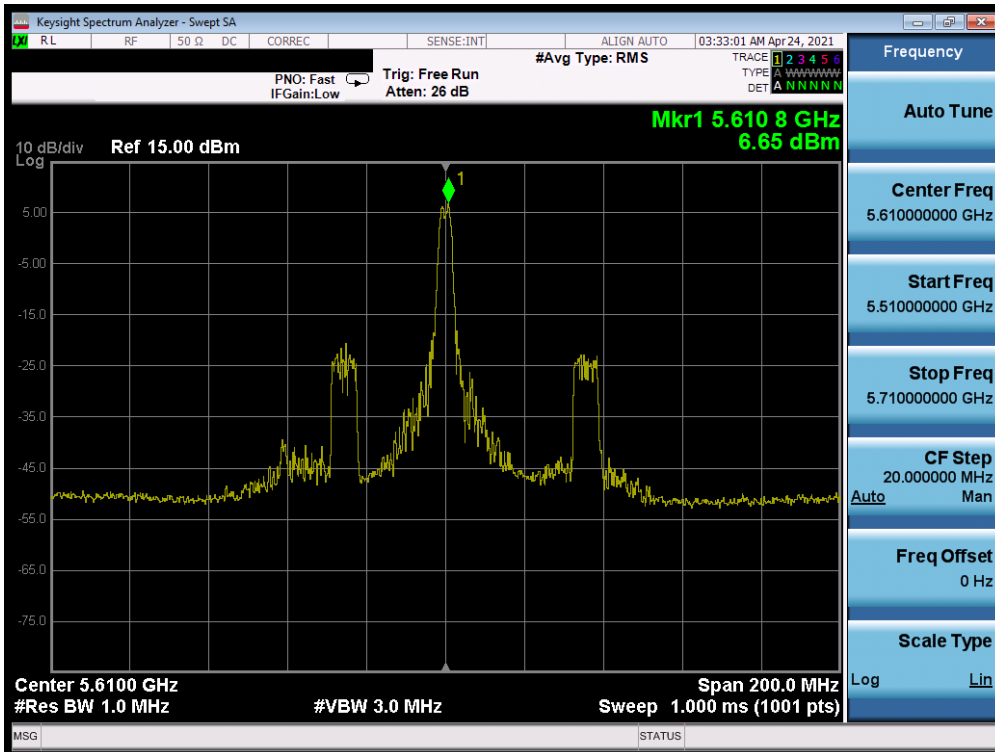


Plot 7-342. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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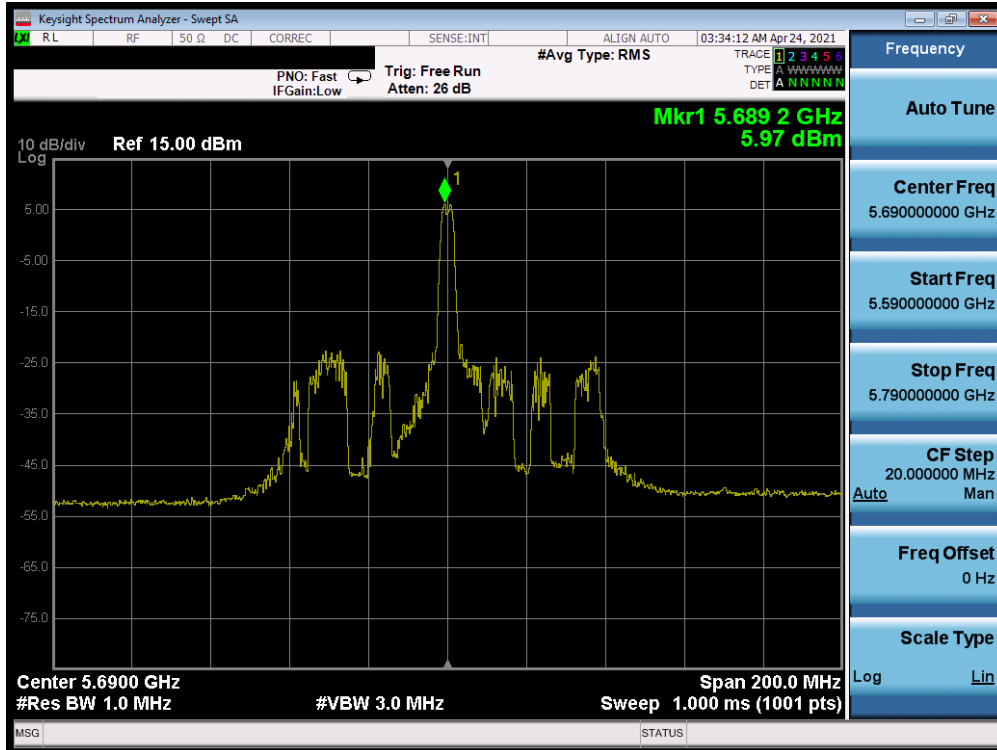


Plot 7-343. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)



Plot 7-344. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 241 of 413

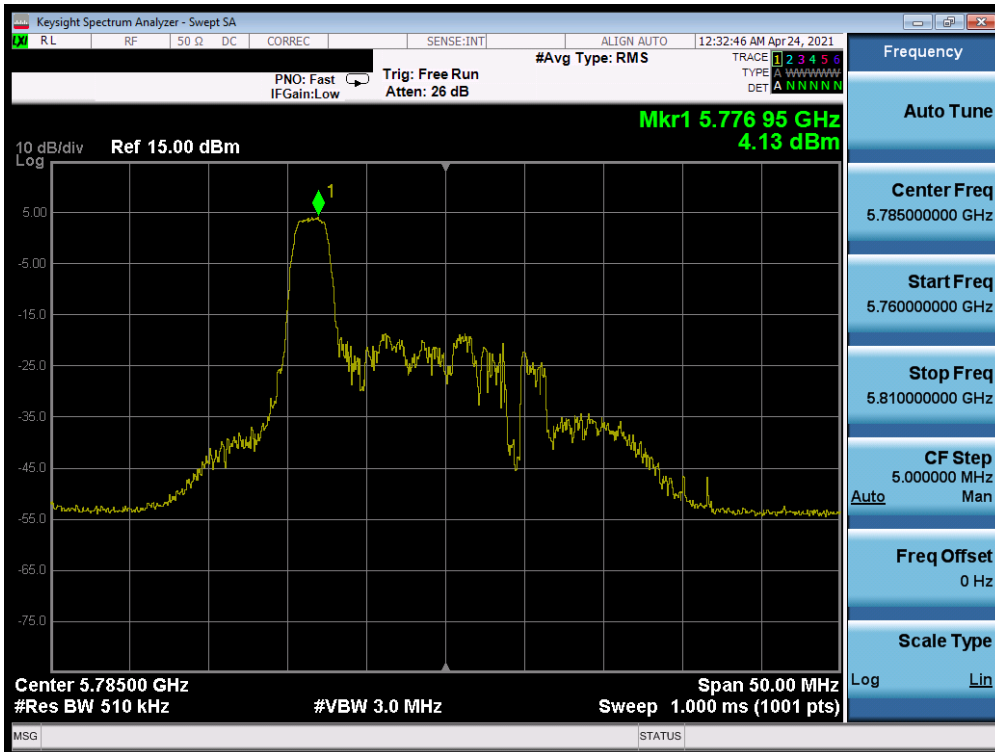


Plot 7-345. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 242 of 413

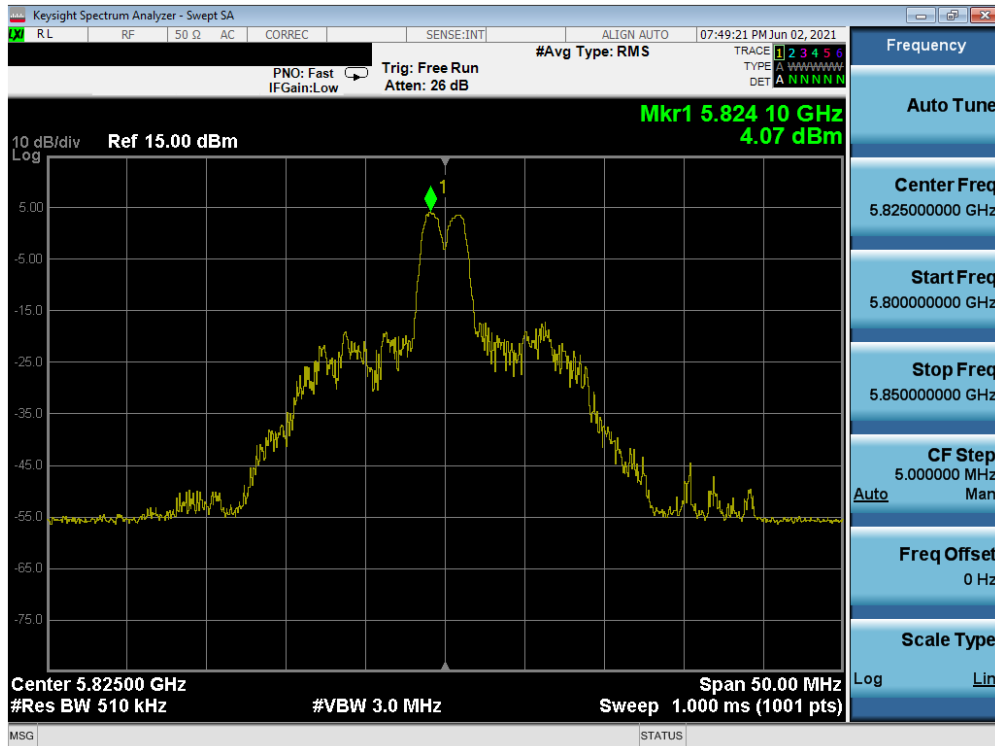


Plot 7-346. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

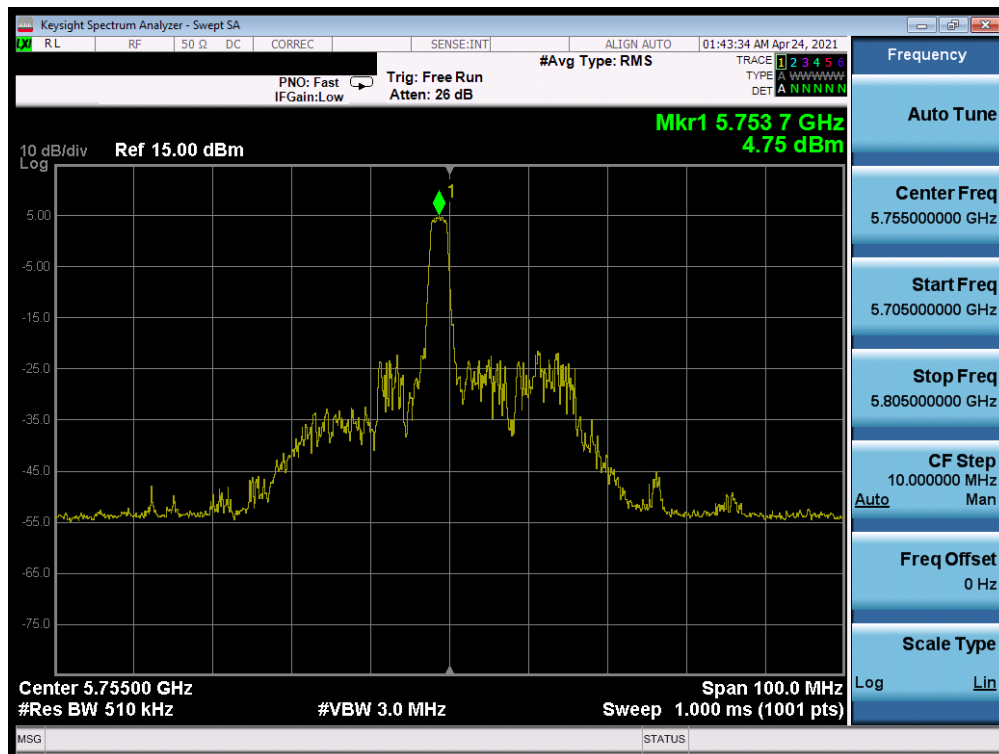


Plot 7-347. Power Spectral Density Plot MIMO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: A3LSMF711B	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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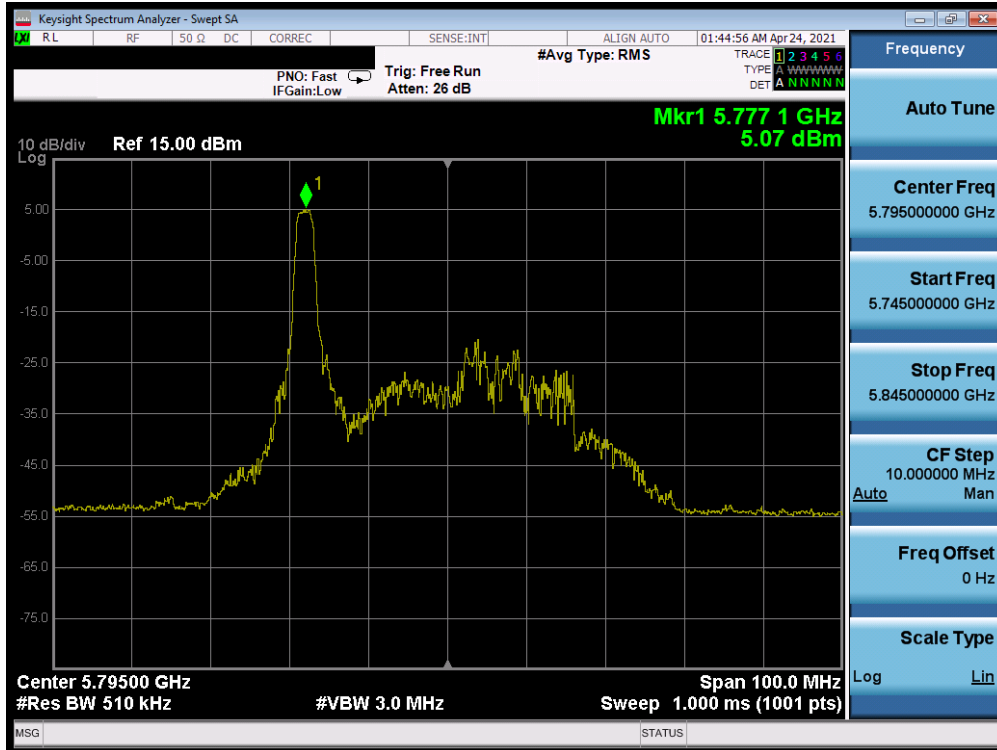


Plot 7-348. Power Spectral Density Plot MIMO ANT1 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

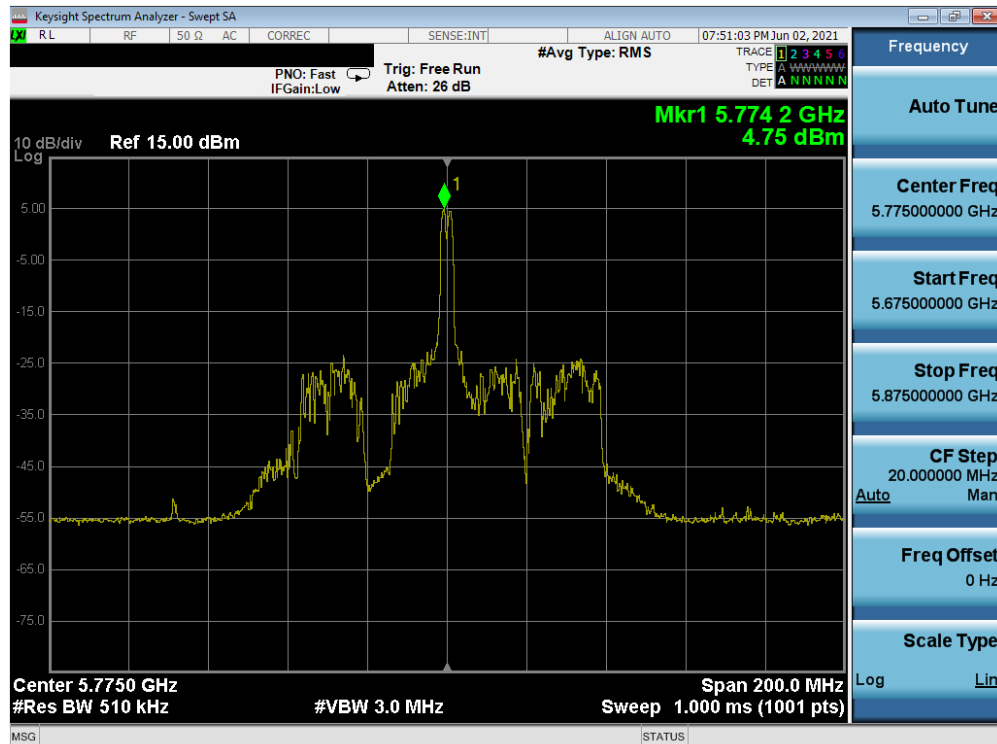


Plot 7-349. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 244 of 413



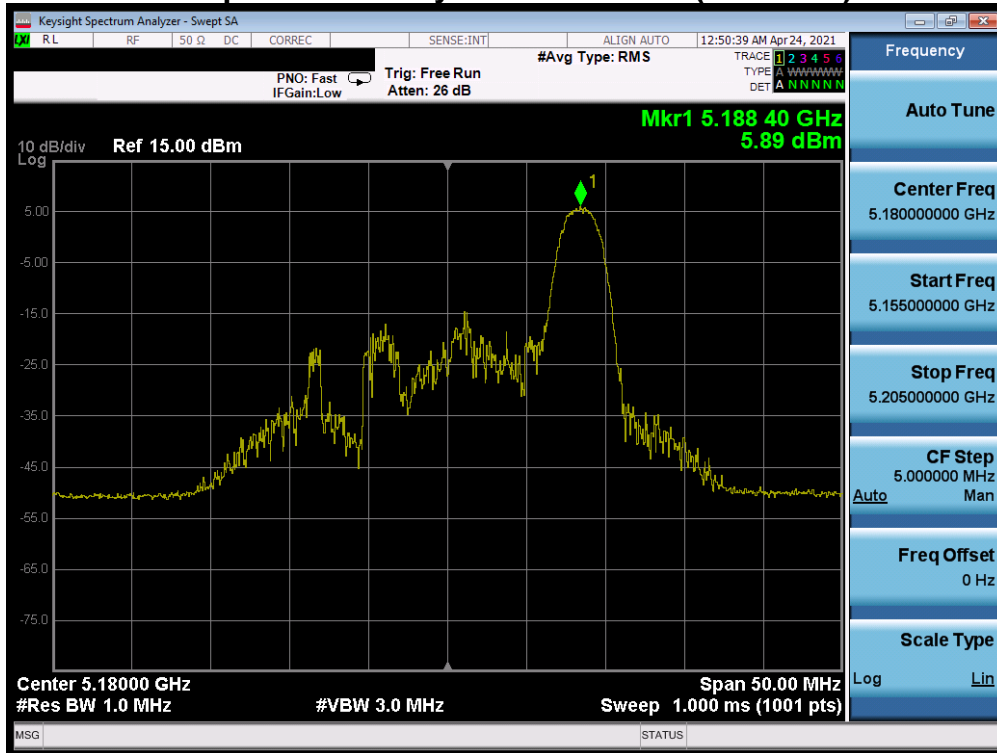
Plot 7-350. Power Spectral Density Plot MIMO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



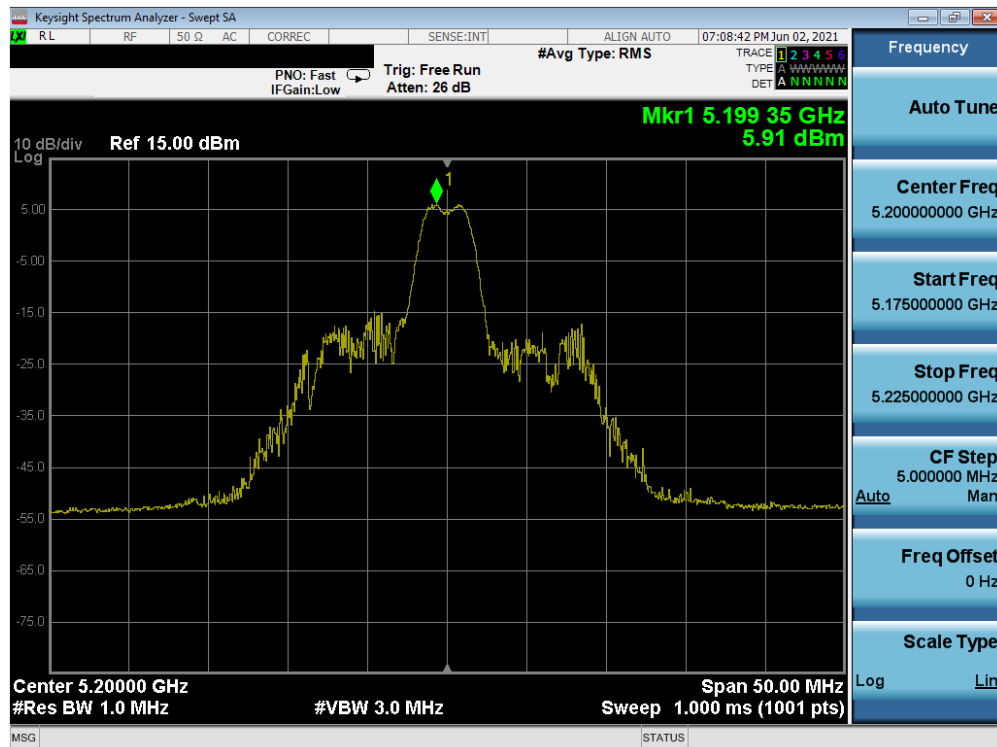
Plot 7-351. Power Spectral Density Plot MIMO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 245 of 413

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

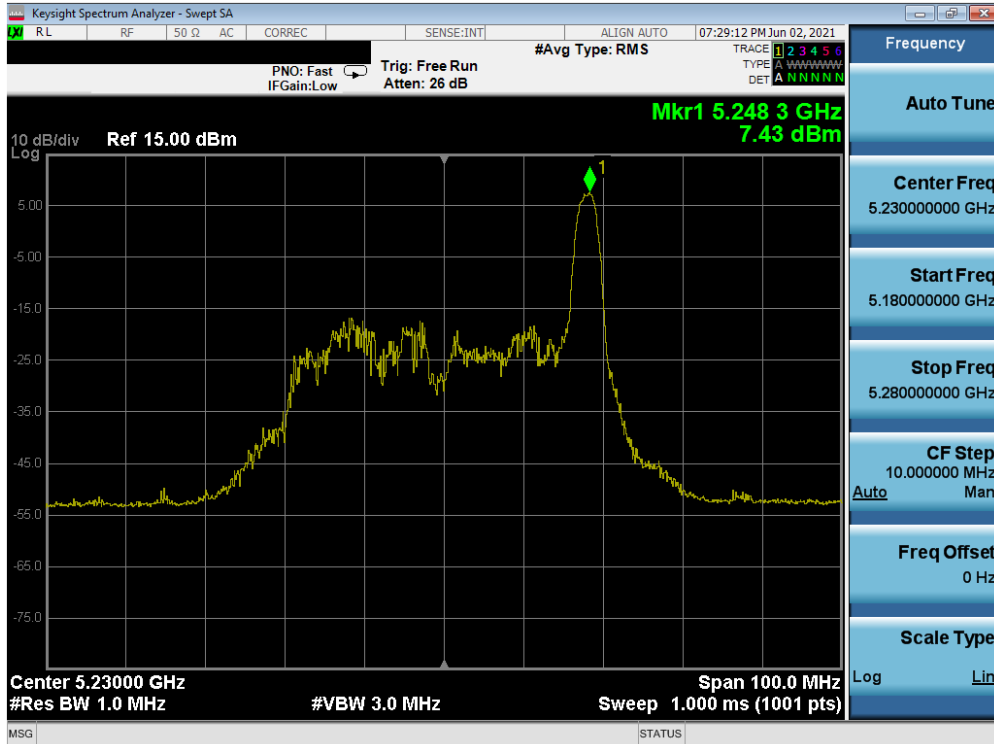


Plot 7-352. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

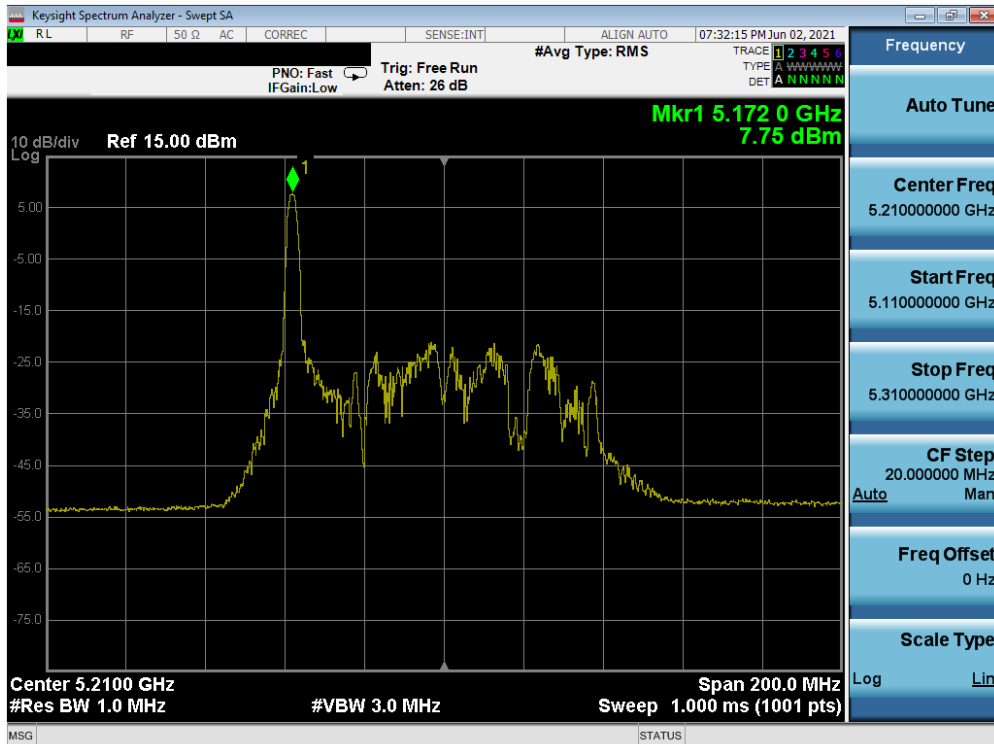


Plot 7-353. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 246 of 413



Plot 7-356. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)

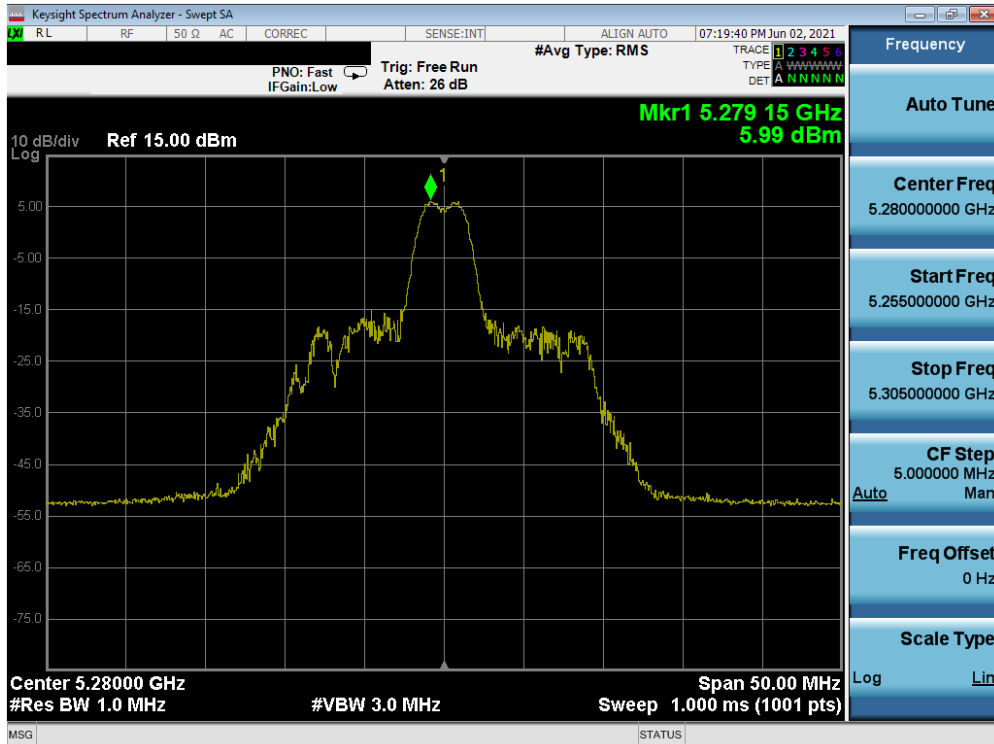


Plot 7-357. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 248 of 413

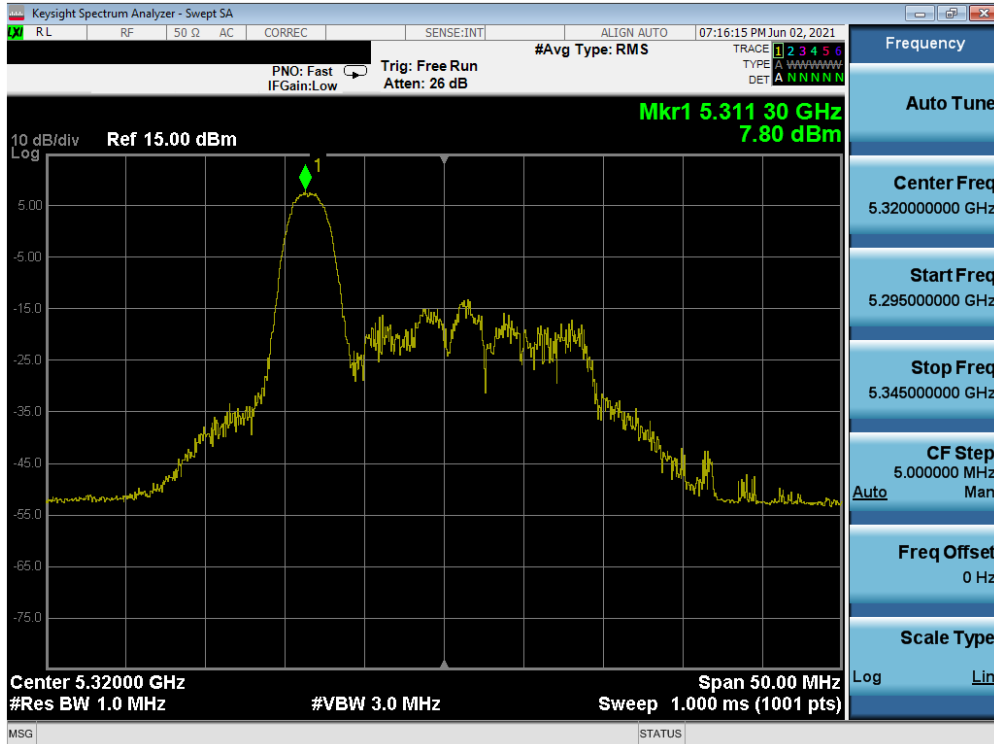


Plot 7-358. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

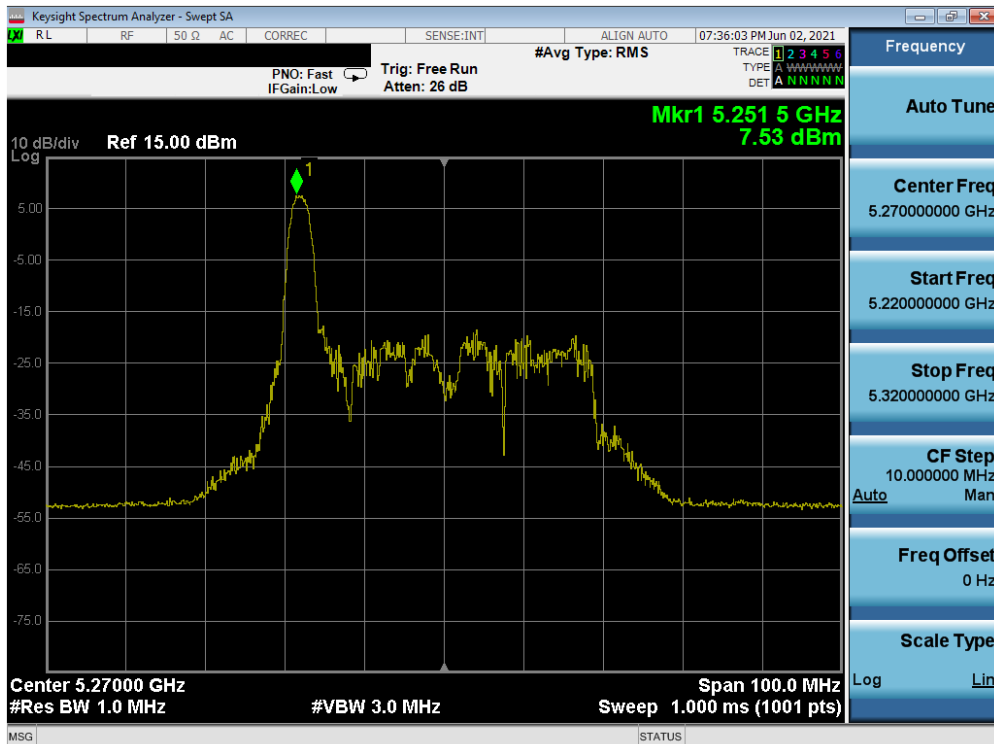


Plot 7-359. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 249 of 413

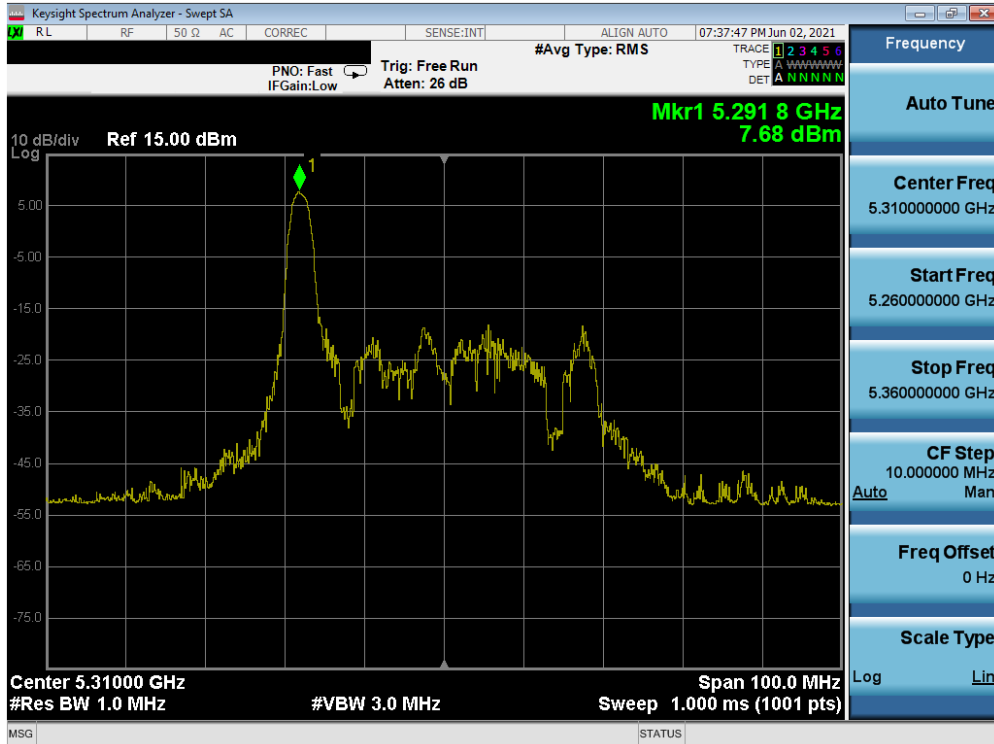


Plot 7-360. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

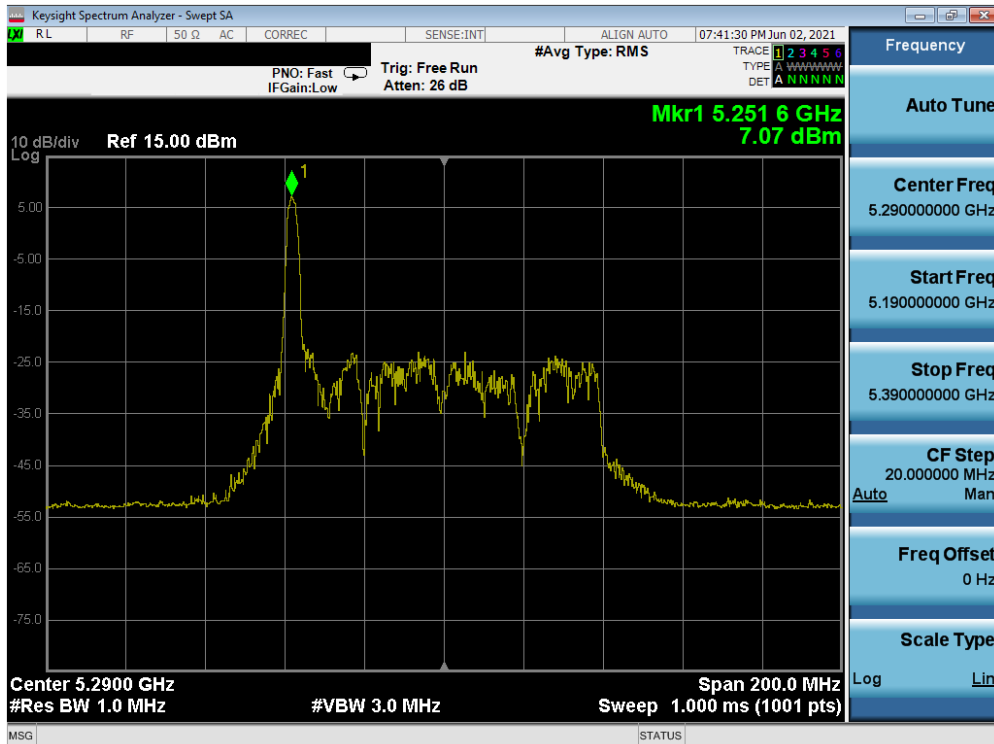


Plot 7-361. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)


FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 250 of 413

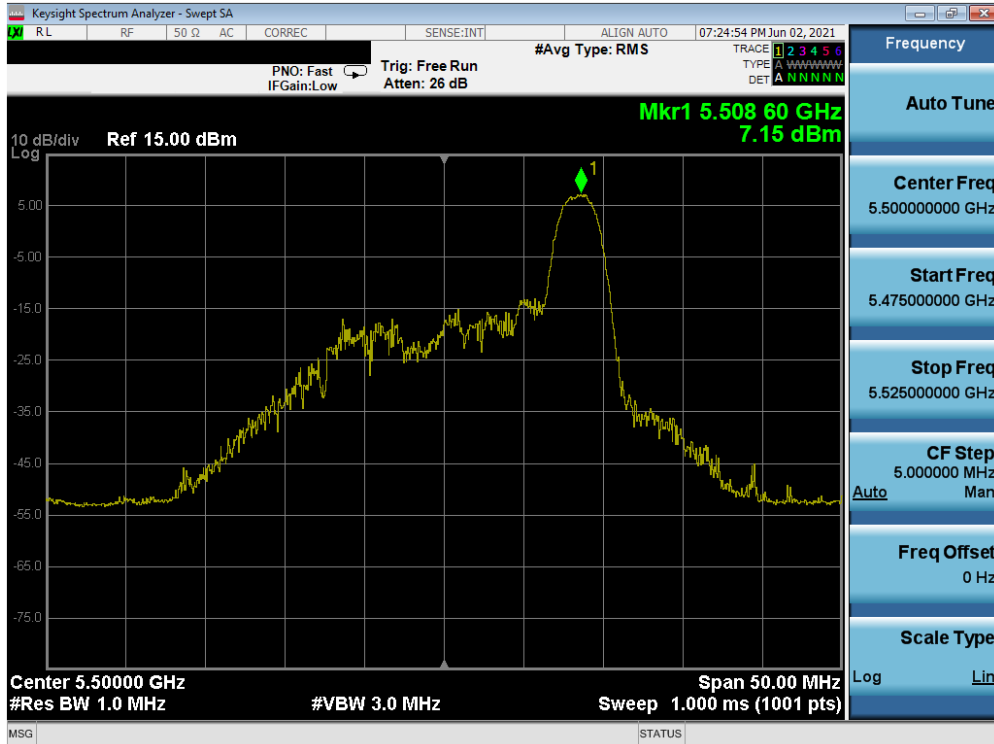


Plot 7-362. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

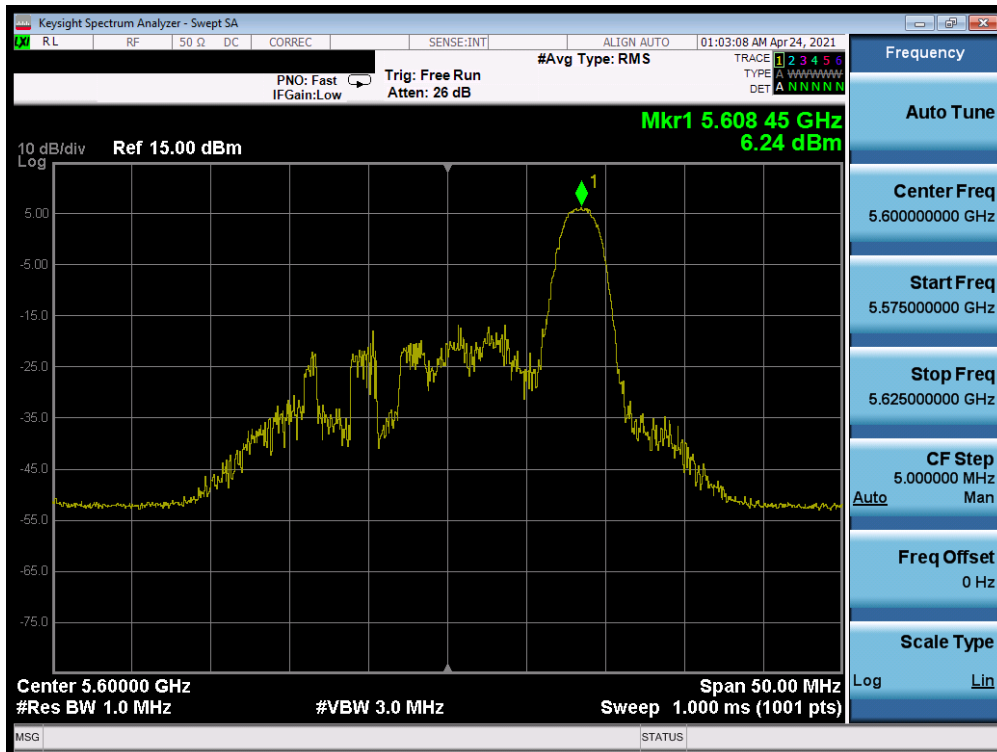


Plot 7-363. Power Spectral Density Plot MIMO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 251 of 413

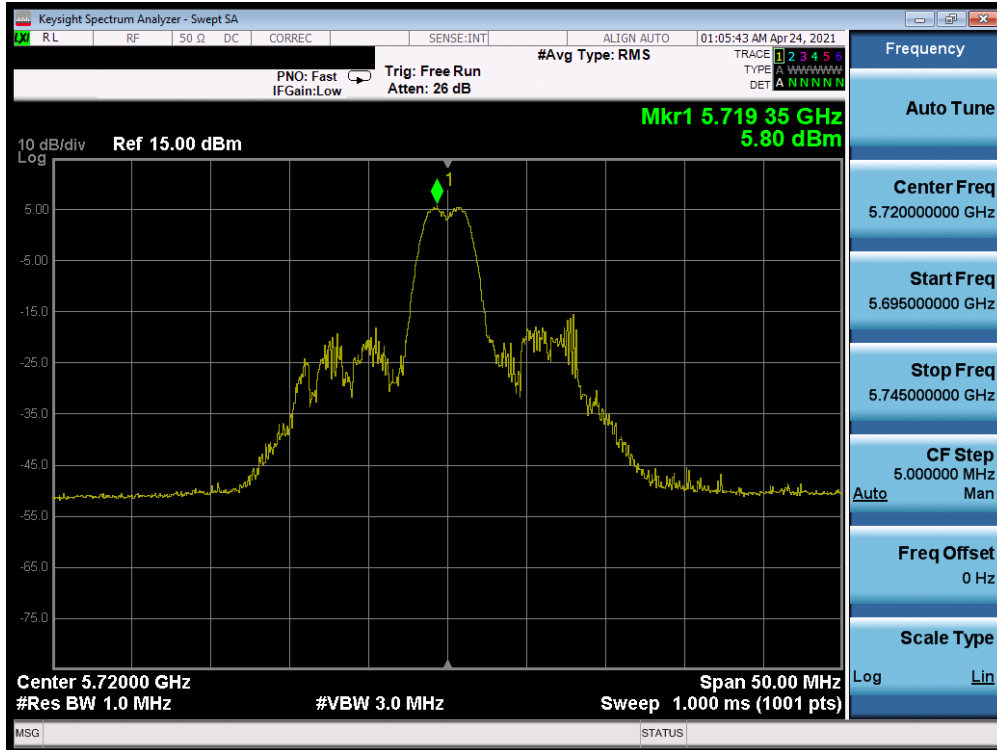


Plot 7-364. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

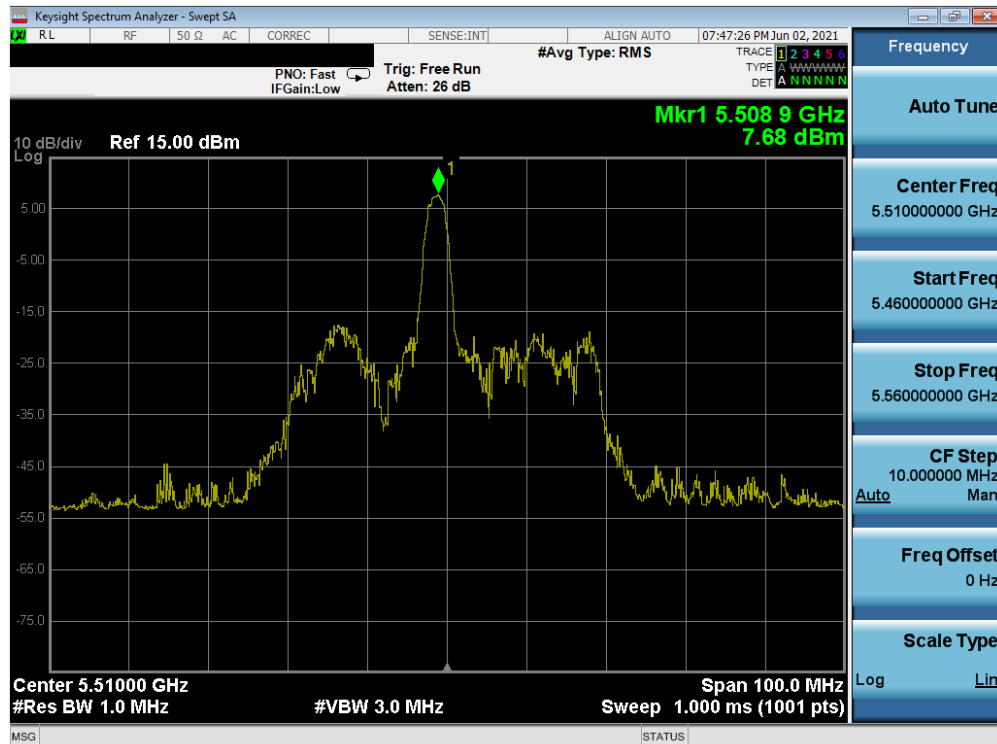


Plot 7-365. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 252 of 413



Plot 7-366. Power Spectral Density Plot MIMO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)



Plot 7-367. Power Spectral Density Plot MIMO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104130035-13.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 253 of 413