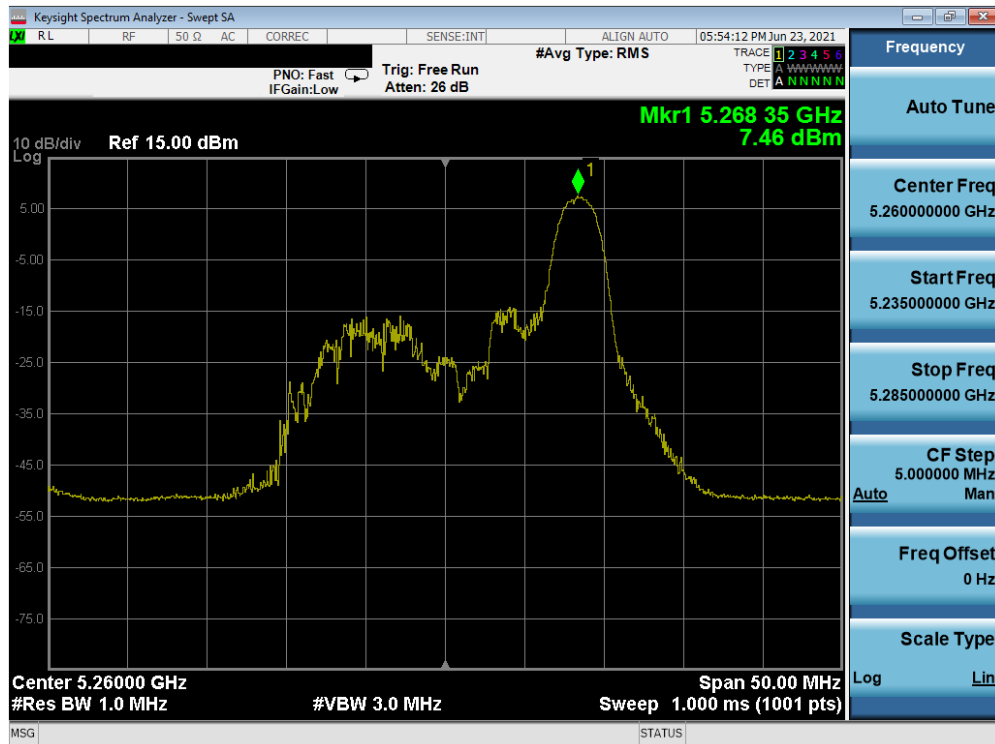


Plot 7-255. Power Spectral Density Plot MIMO SOUTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 1) – Ch. 50)

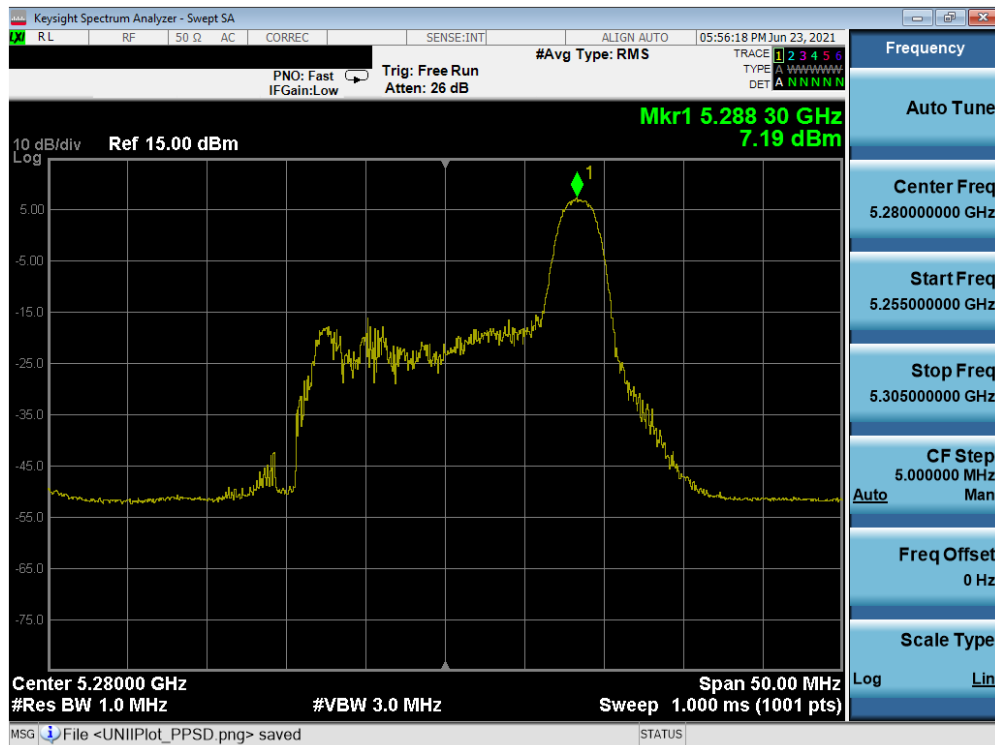


Plot 7-256. Power Spectral Density Plot MIMO SOUTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2A) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 189 of 341

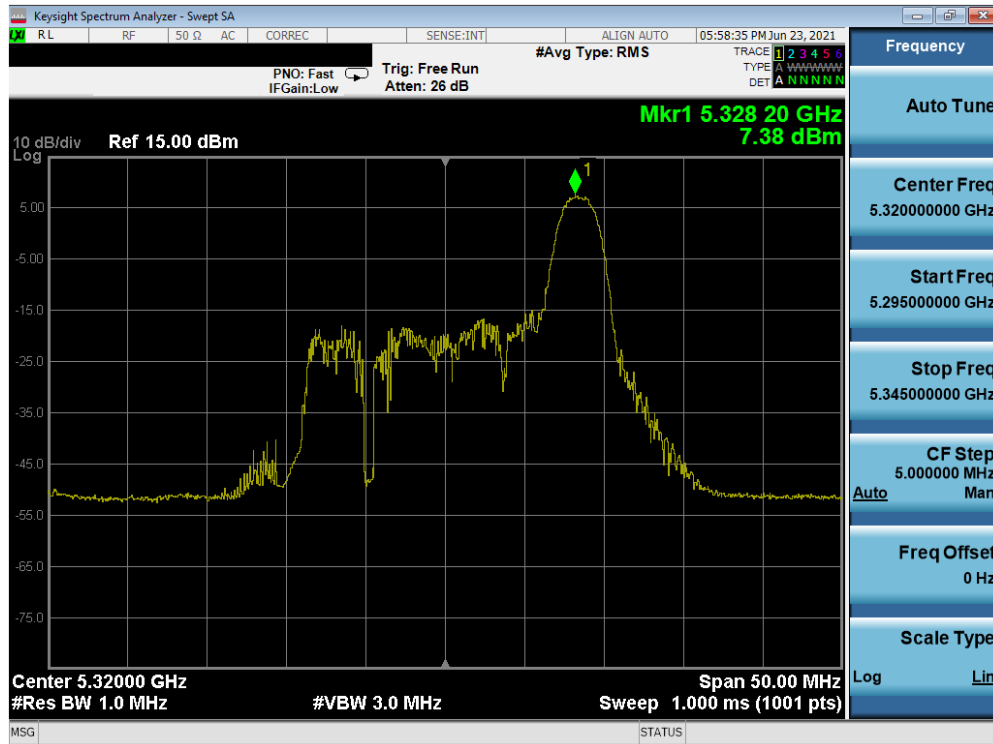


Plot 7-257. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

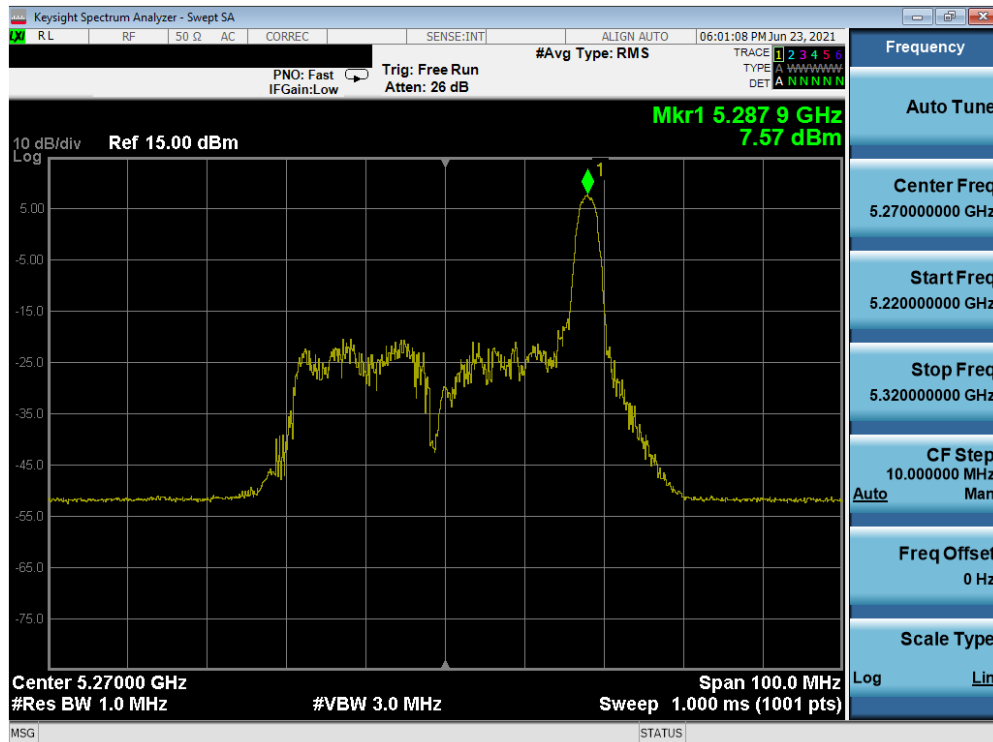


Plot 7-258. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 190 of 341

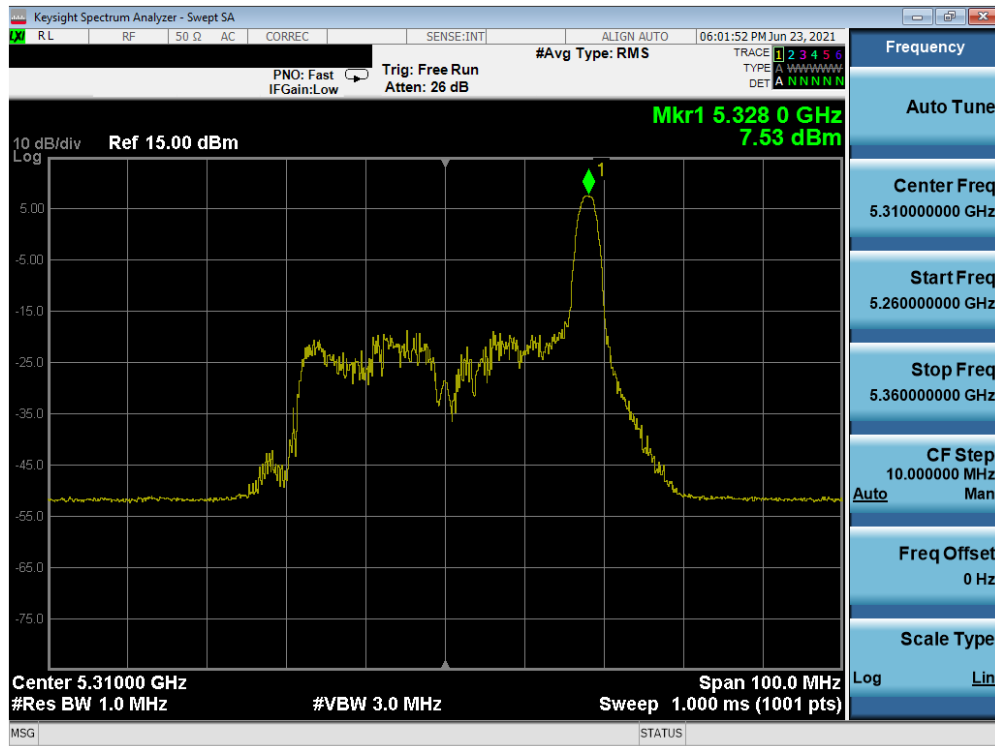


Plot 7-259. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

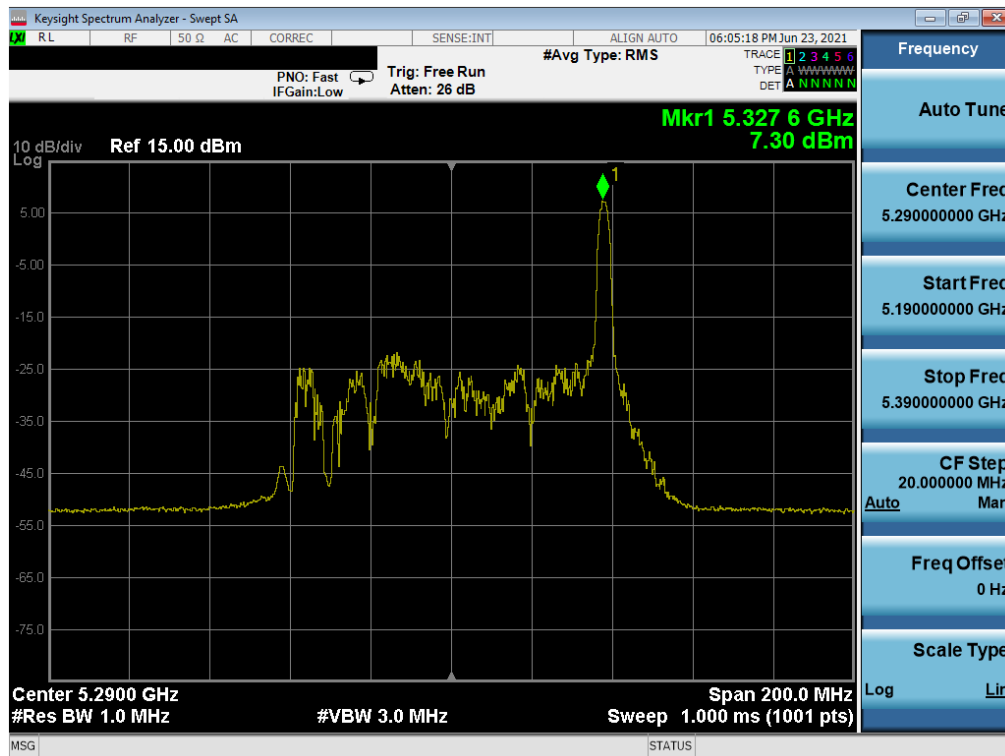


Plot 7-260. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 191 of 341

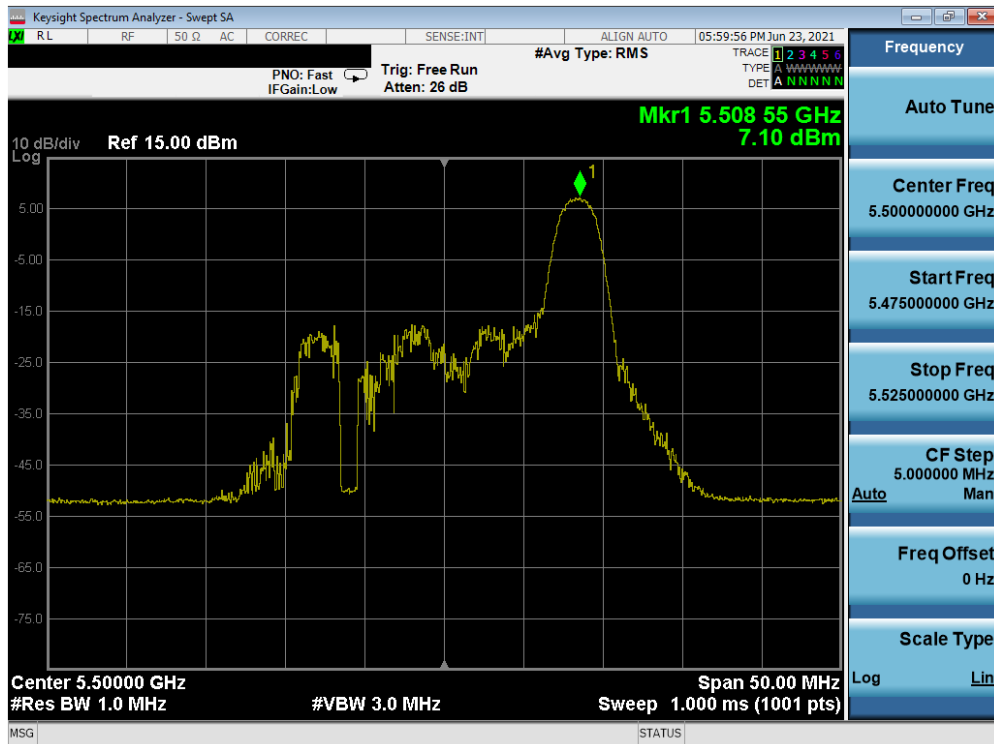


Plot 7-261. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

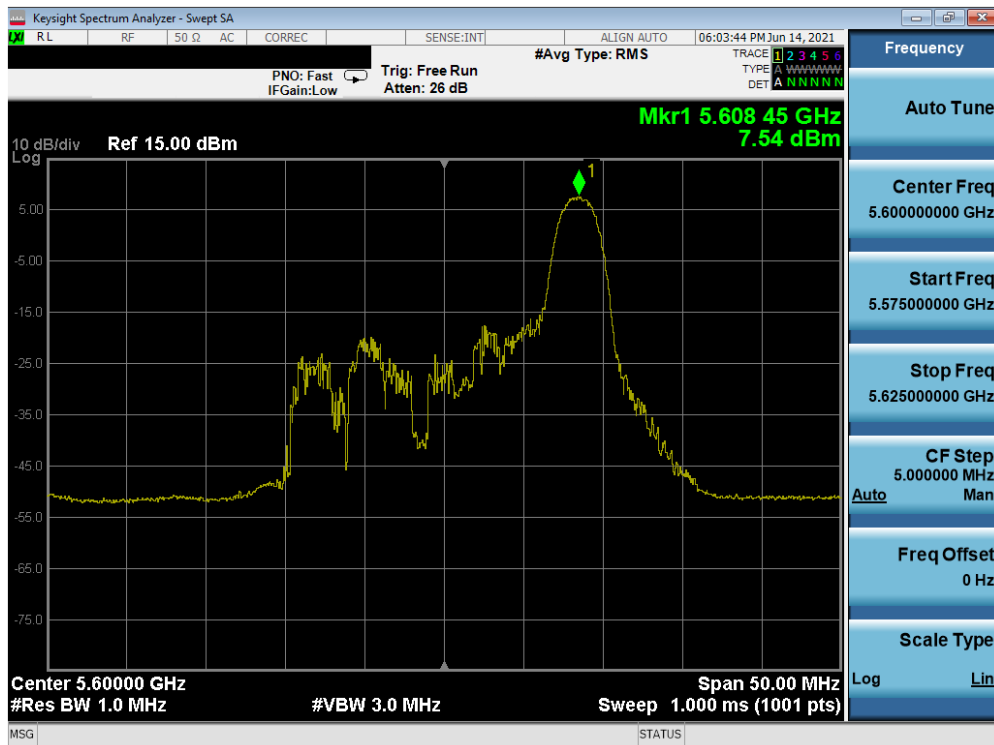


Plot 7-262. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 192 of 341



Plot 7-263. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

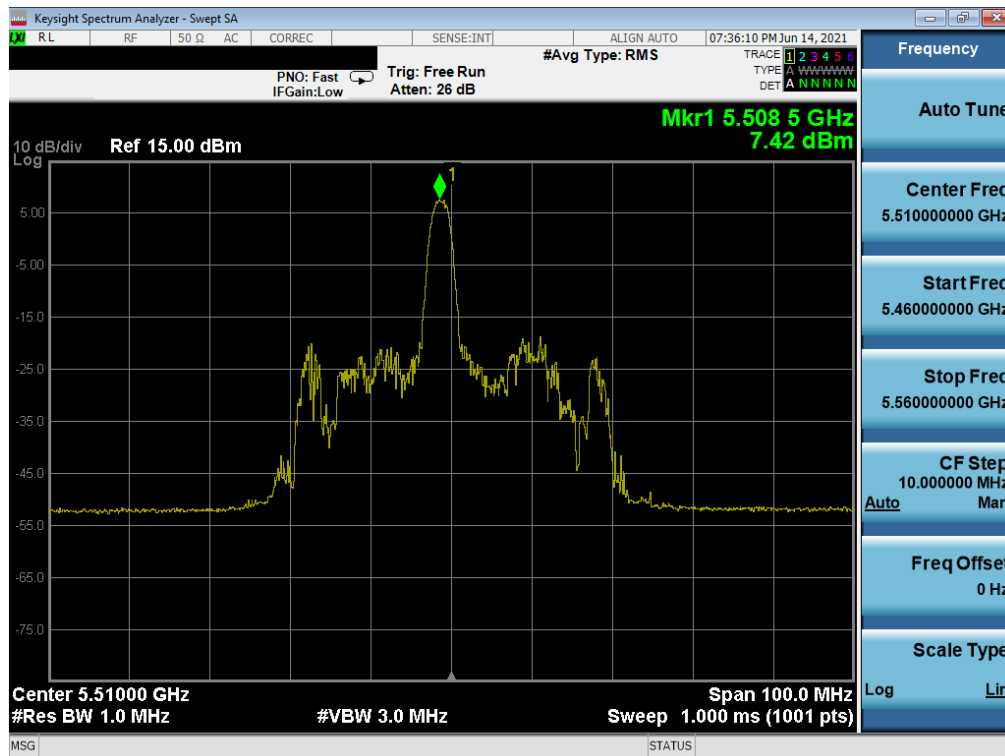


Plot 7-264. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 193 of 341

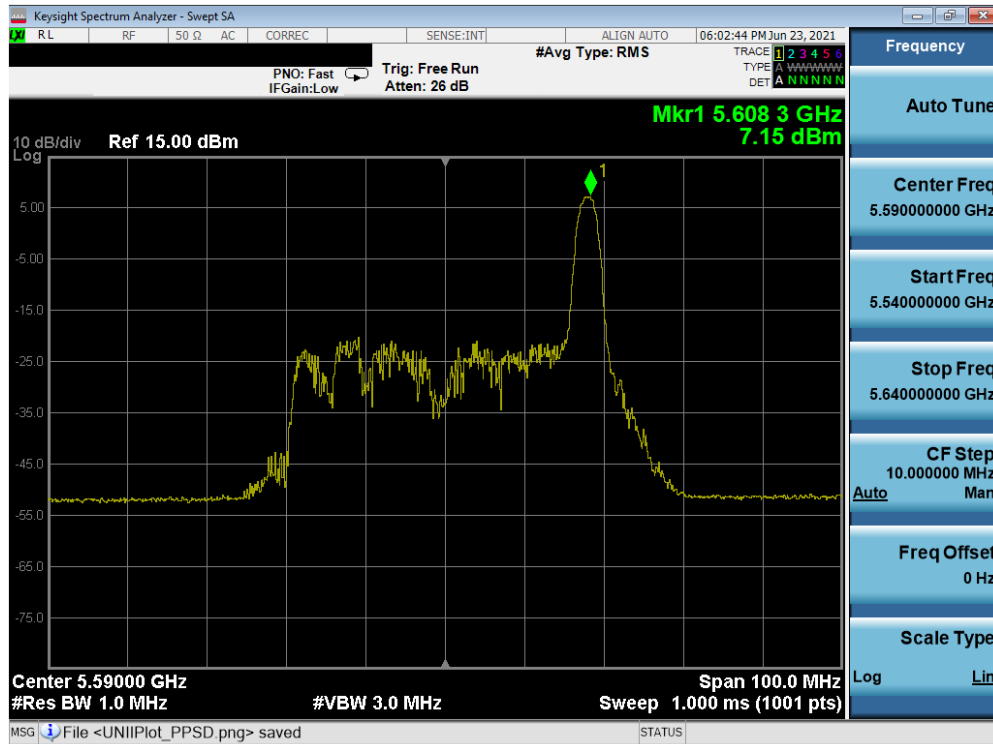


Plot 7-265. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

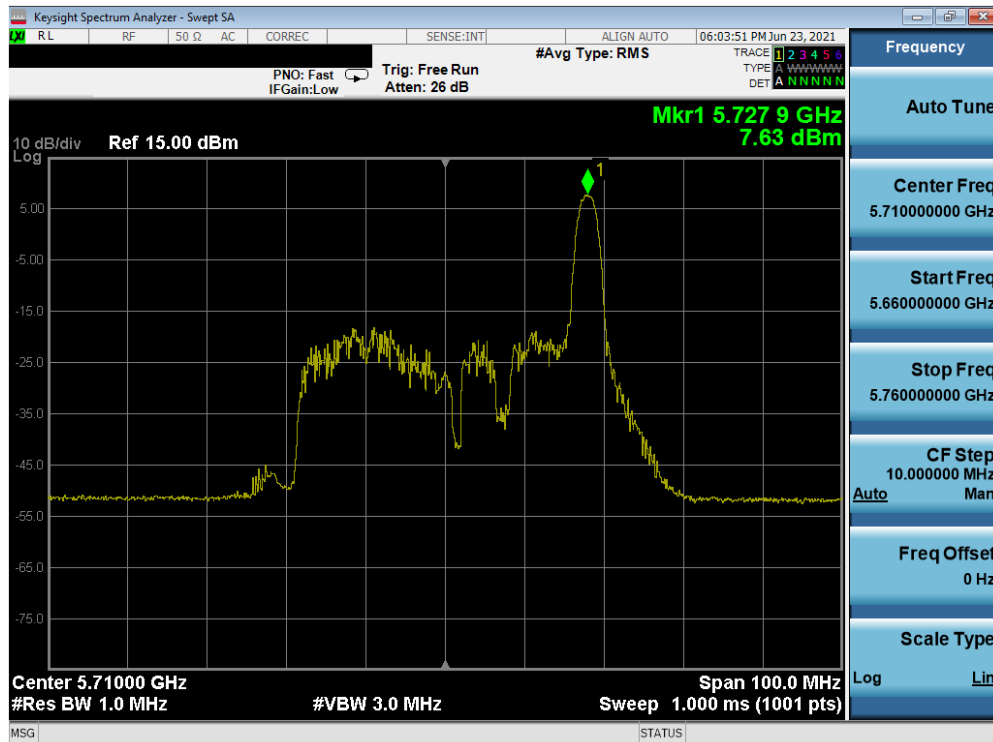


Plot 7-266. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 194 of 341

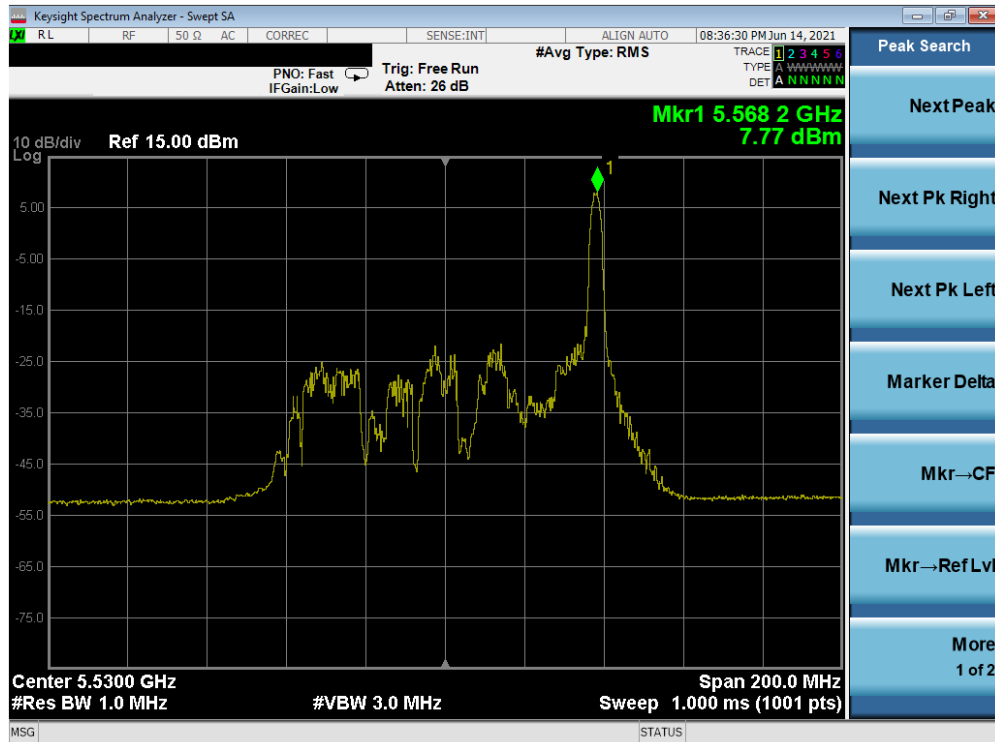


Plot 7-267. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)

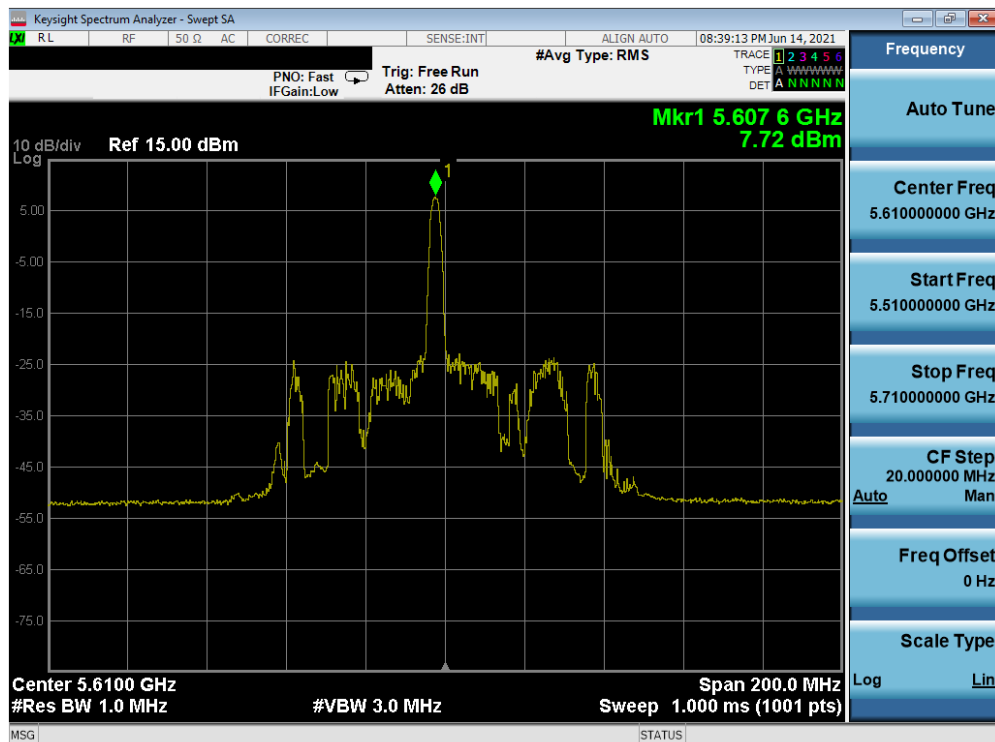


Plot 7-268. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 195 of 341

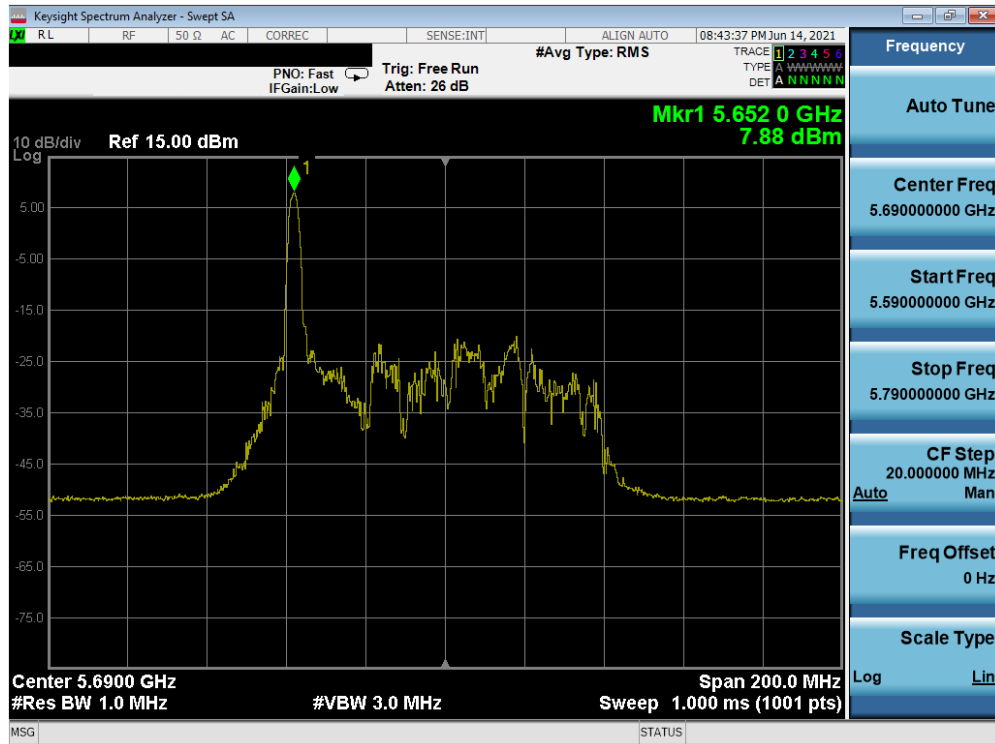


Plot 7-269. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

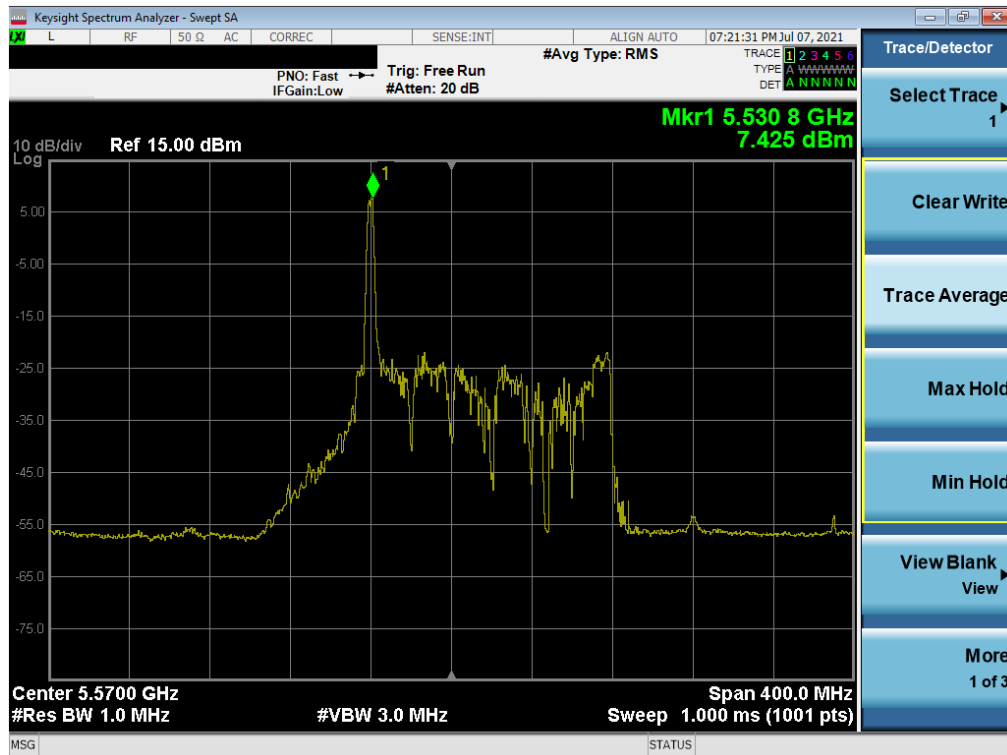


Plot 7-270. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 196 of 341

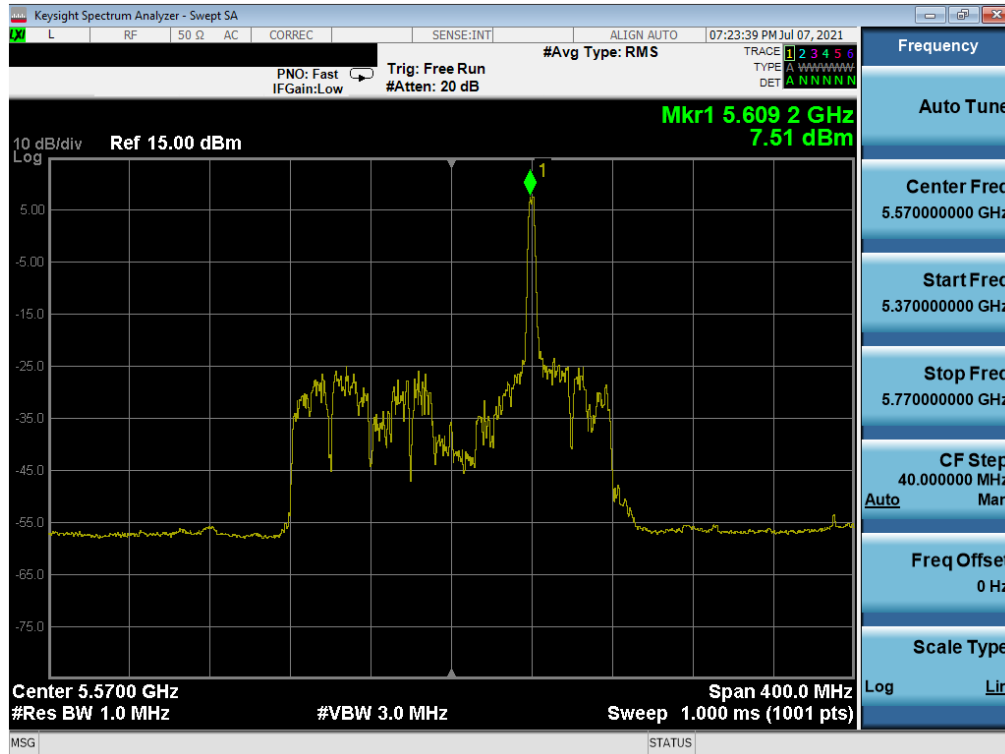


Plot 7-271. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

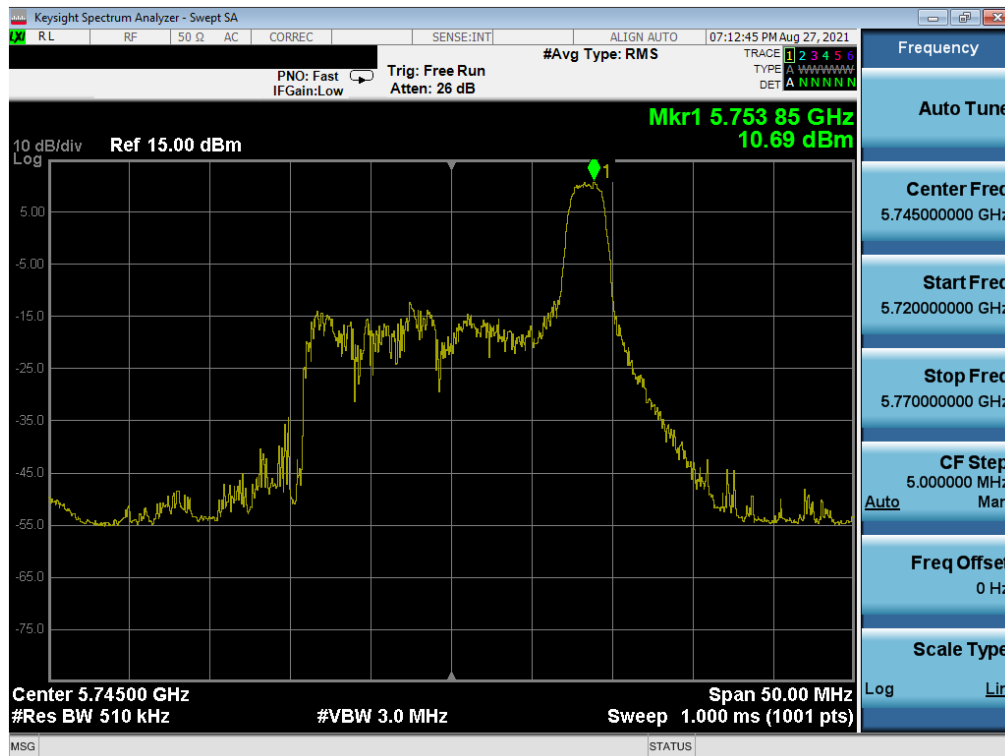


Plot 7-272. Power Spectral Density Plot MIMO SOUTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 197 of 341

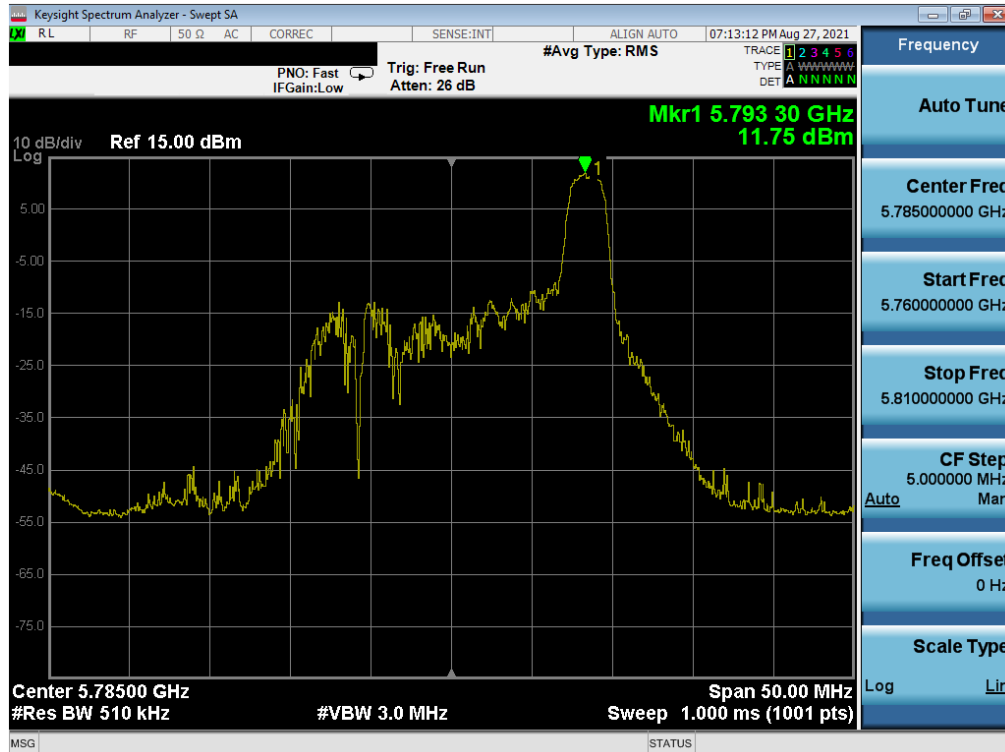


Plot 7-273. Power Spectral Density Plot MIMO SOUTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

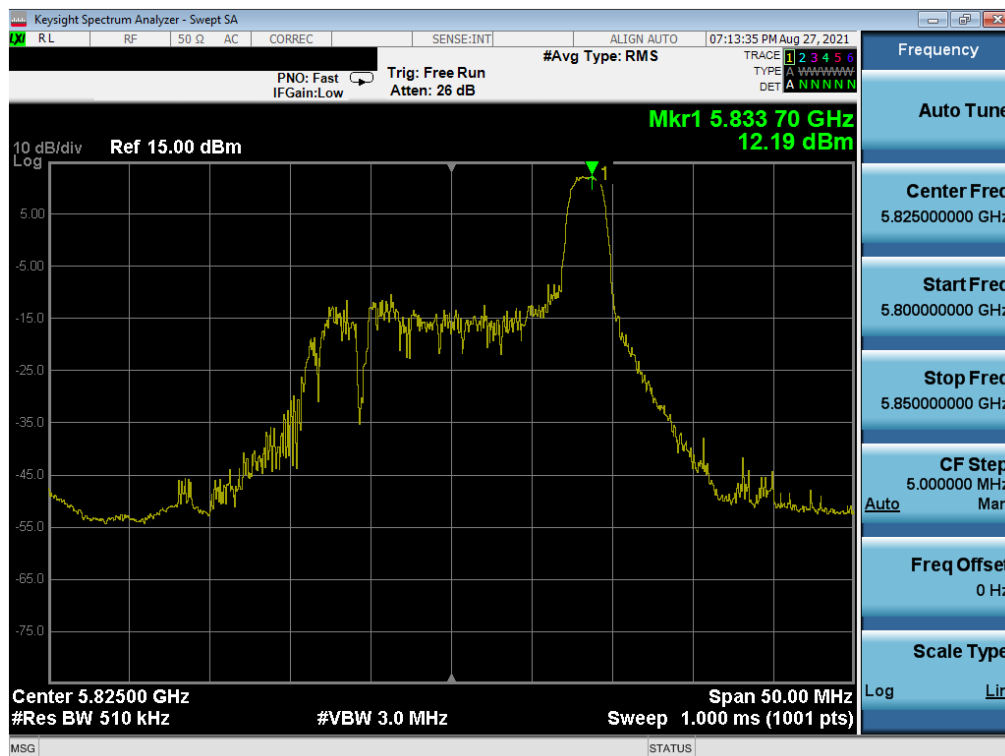


Plot 7-274. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 198 of 341

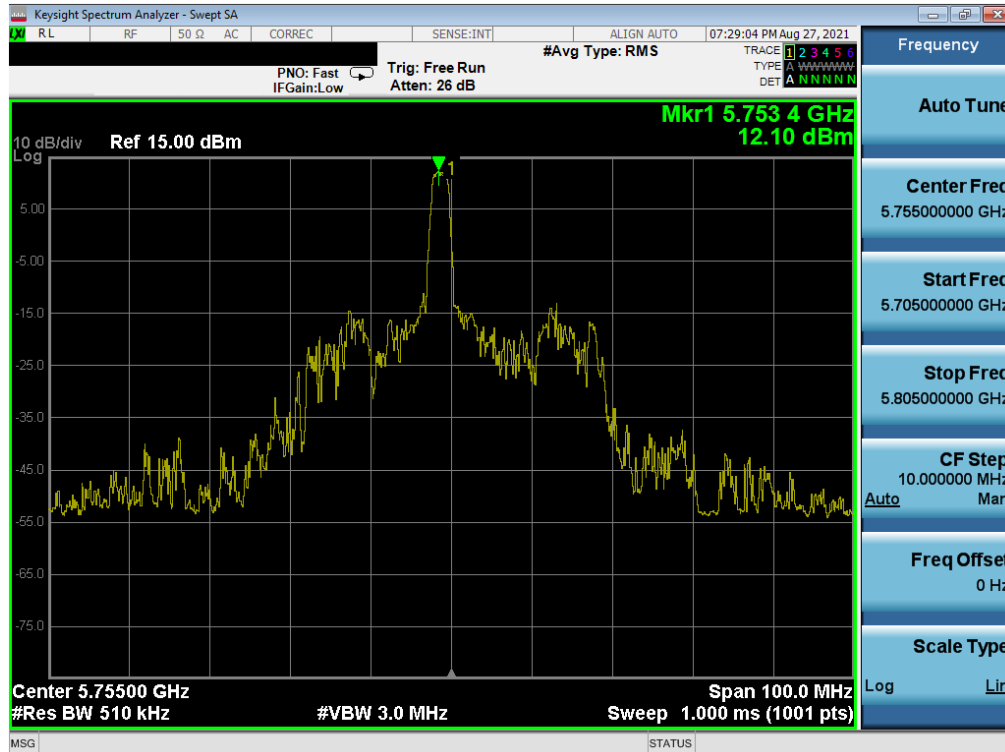


Plot 7-275. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

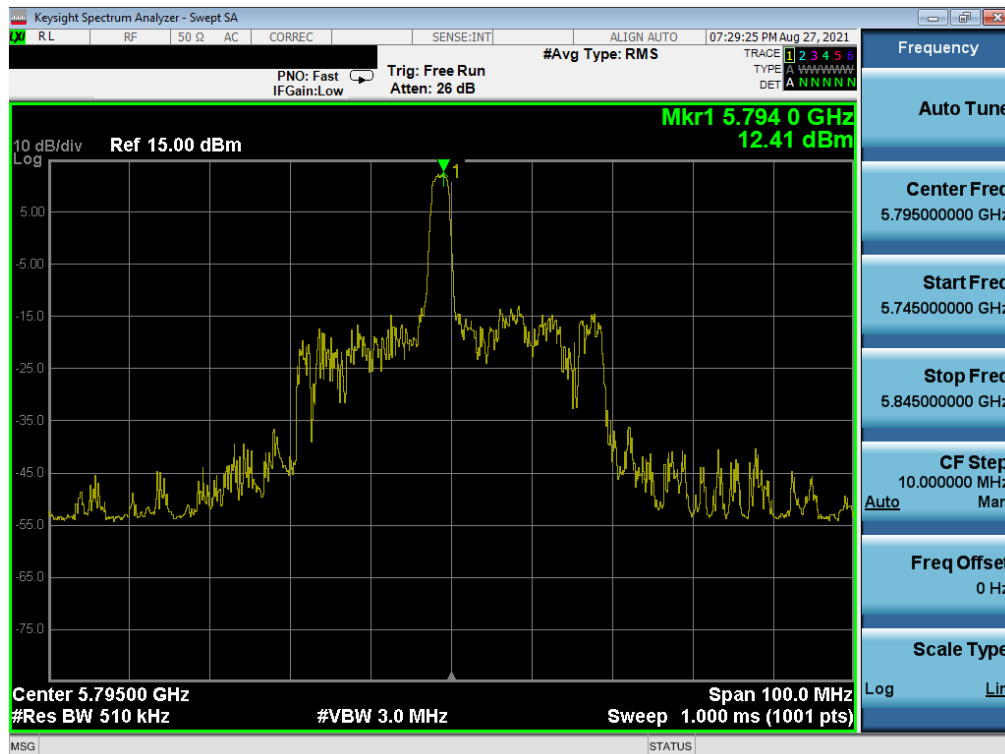


Plot 7-276. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 199 of 341

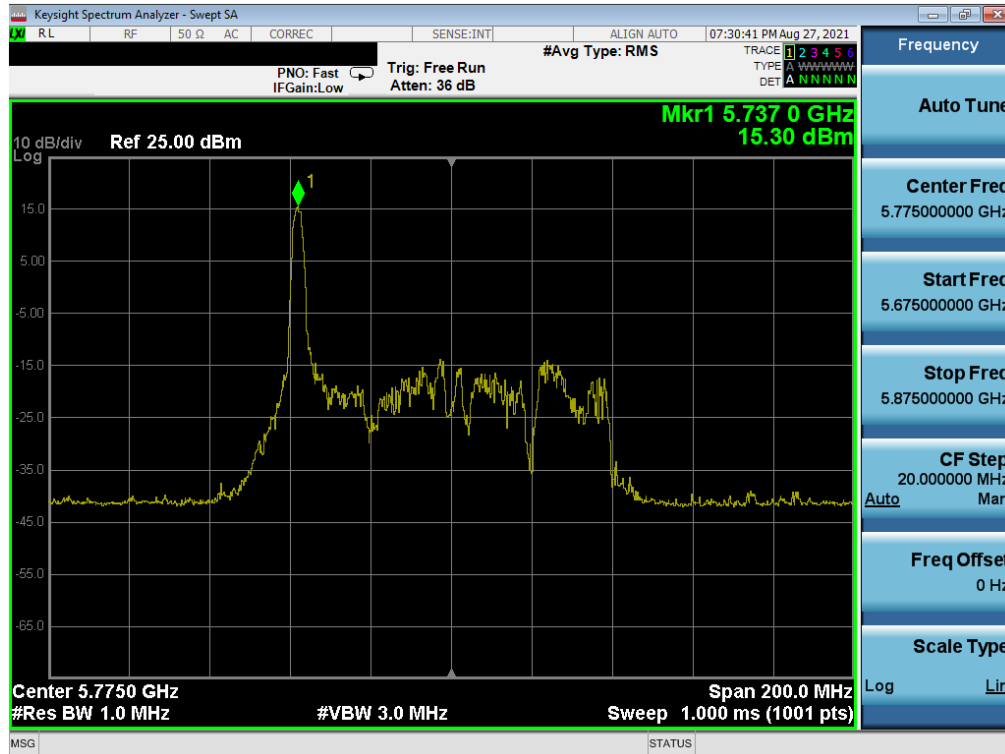


Plot 7-277. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

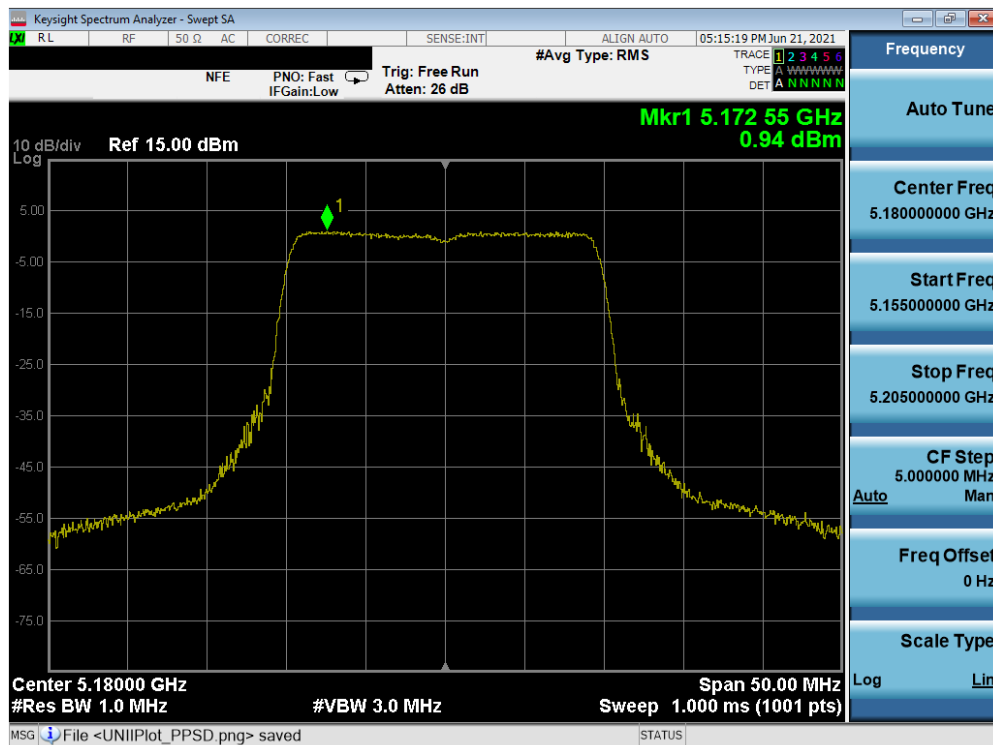


Plot 7-278. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 200 of 341

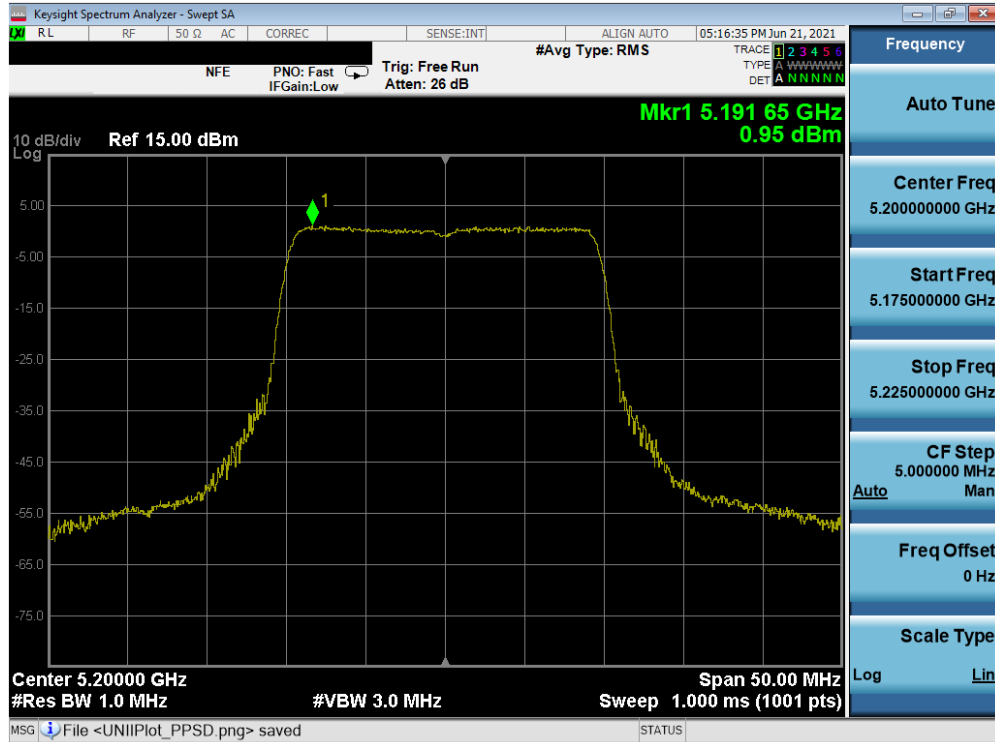


Plot 7-279. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

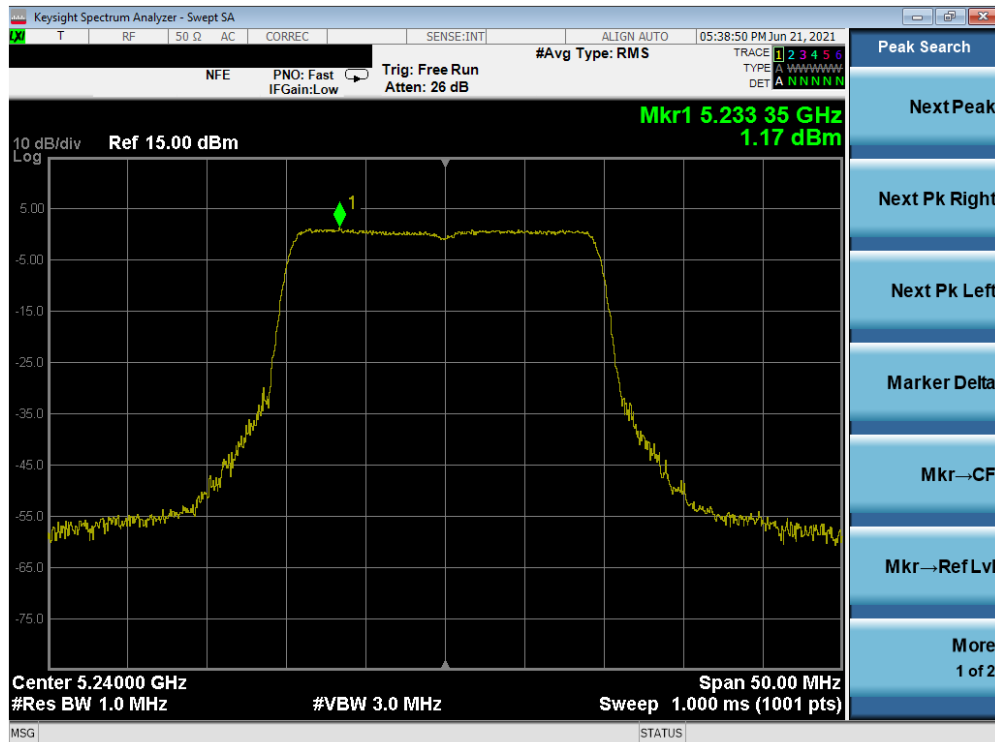


Plot 7-280. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 201 of 341

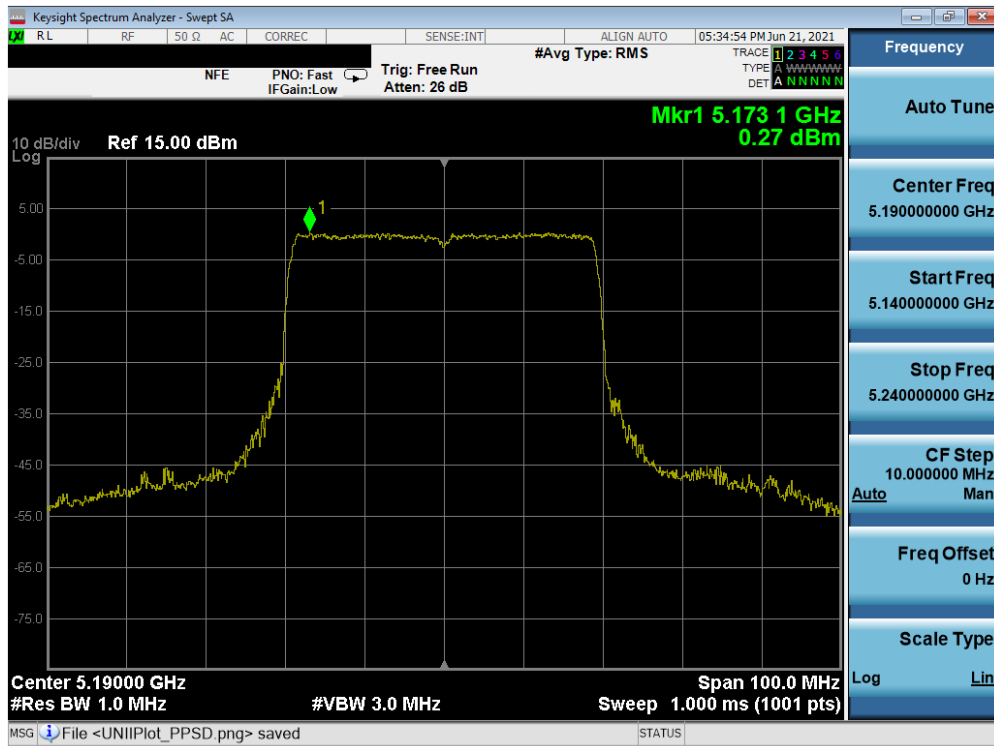


Plot 7-281. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

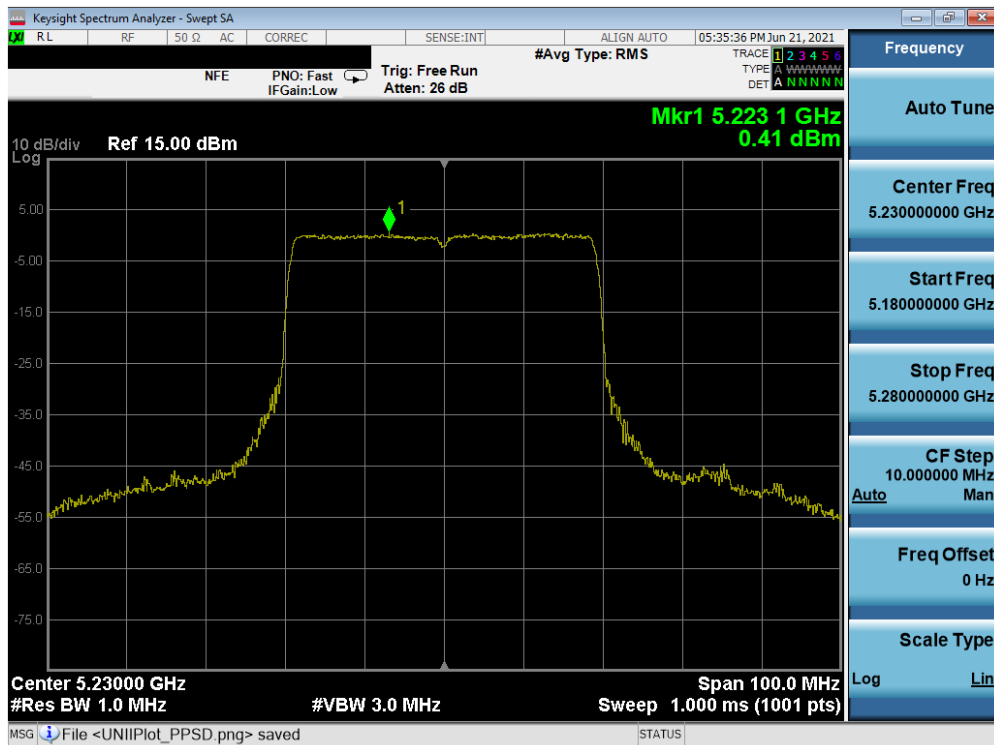


Plot 7-282. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 202 of 341

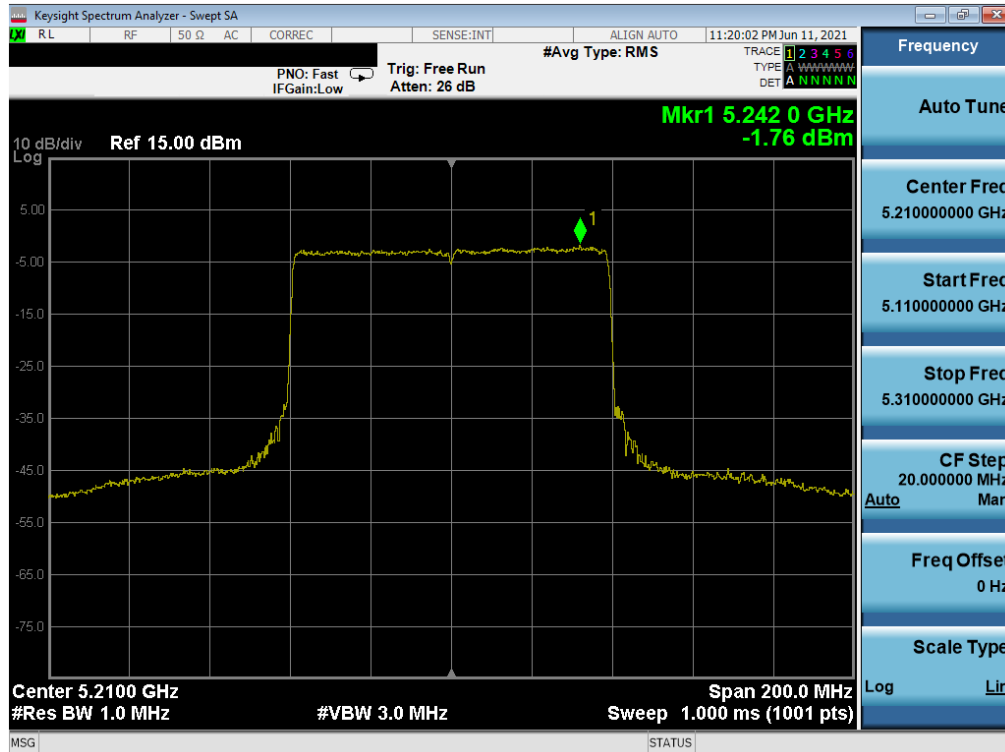


Plot 7-283. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

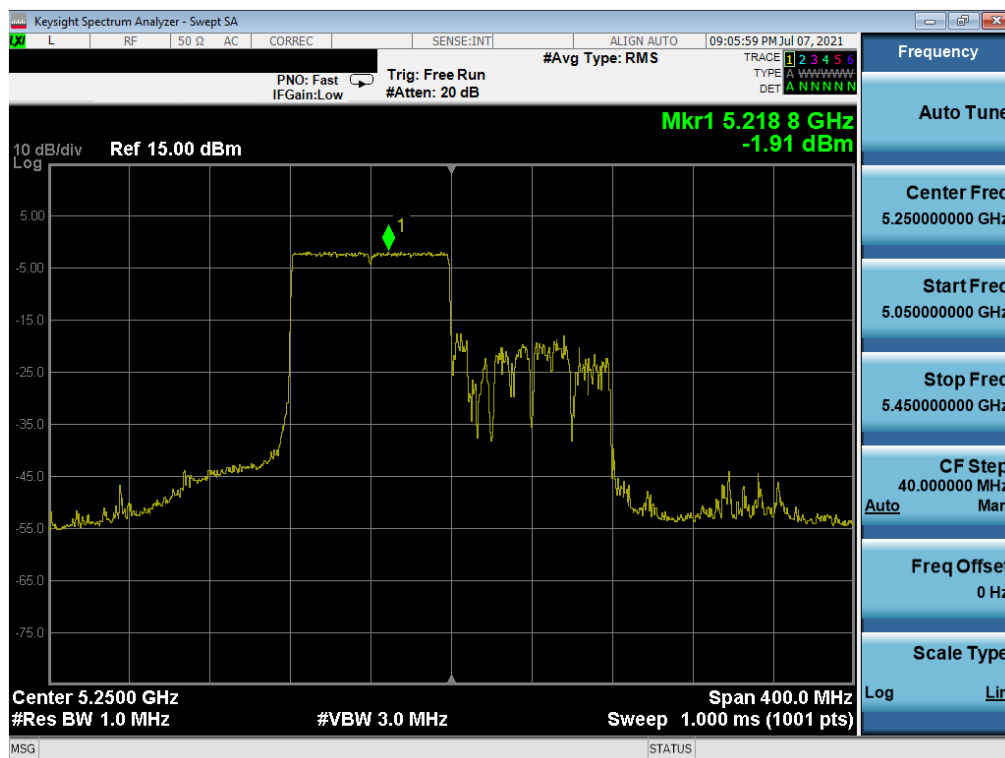


Plot 7-284. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 203 of 341

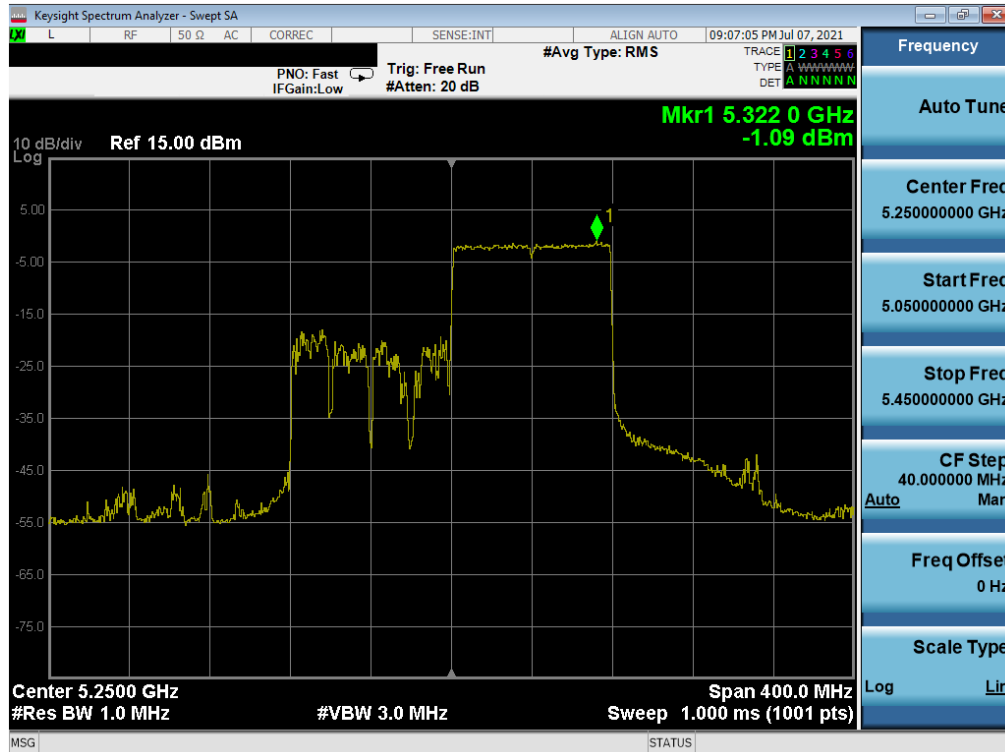


Plot 7-285. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

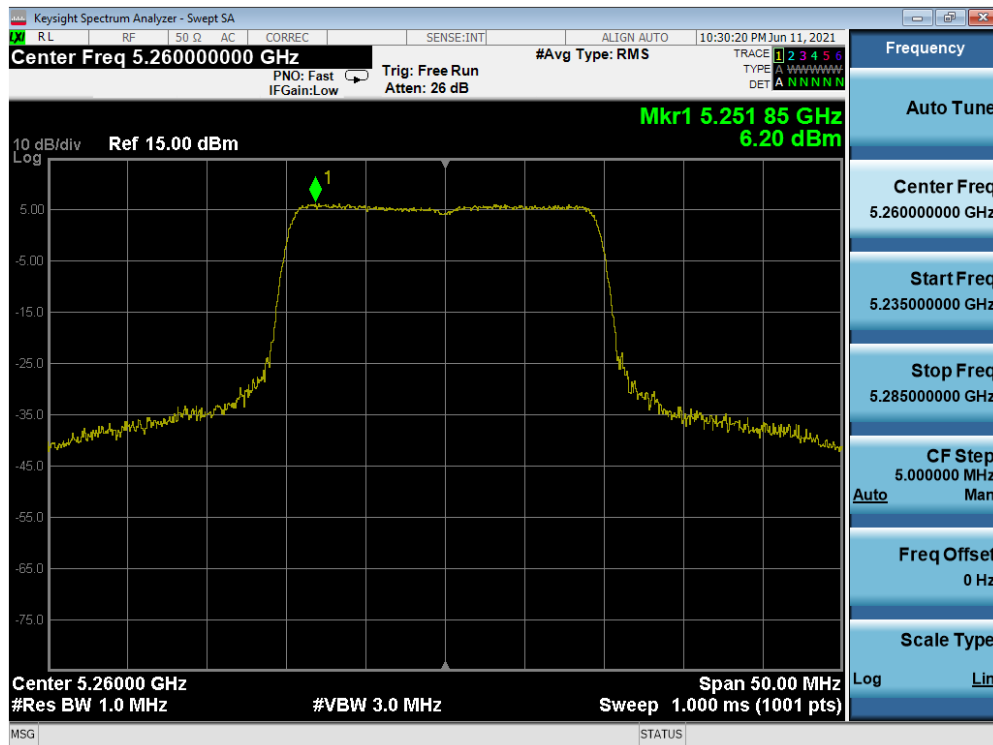


Plot 7-286. Power Spectral Density Plot MIMO SOUTH (160MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 204 of 341

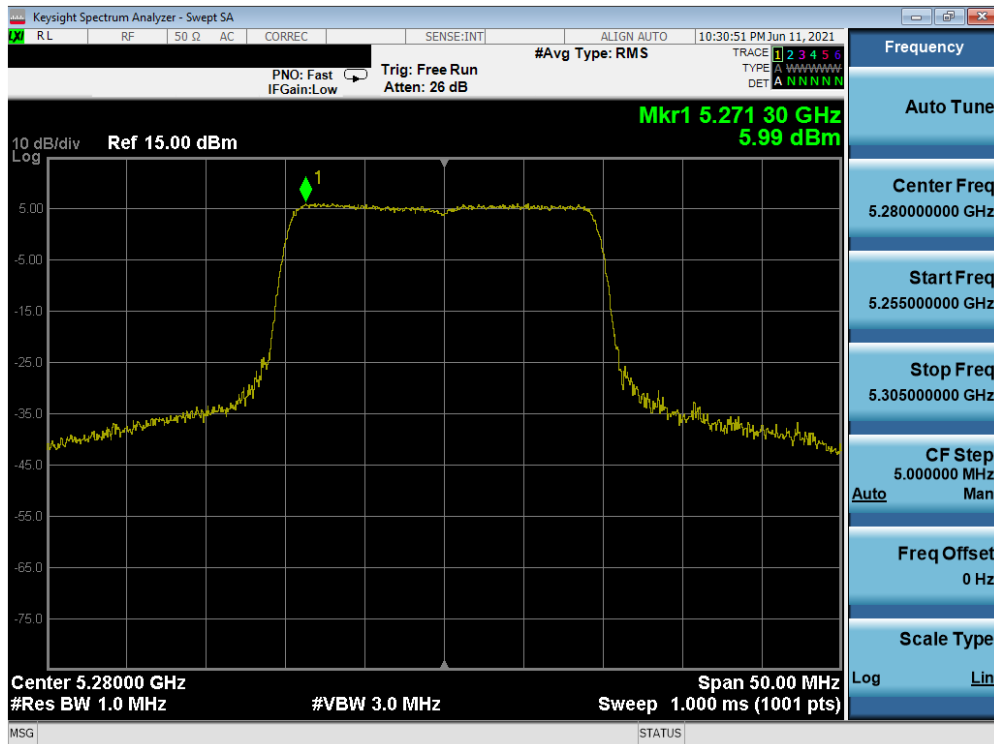


Plot 7-287. Power Spectral Density Plot MIMO SOUTH (160MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 50)

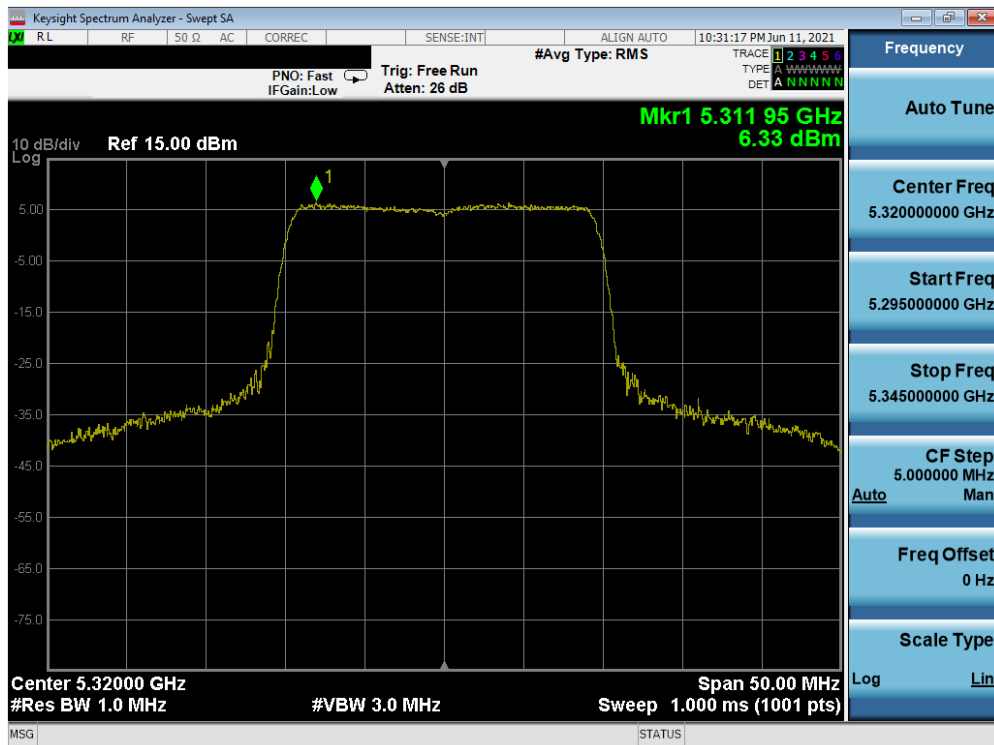


Plot 7-288. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 205 of 341

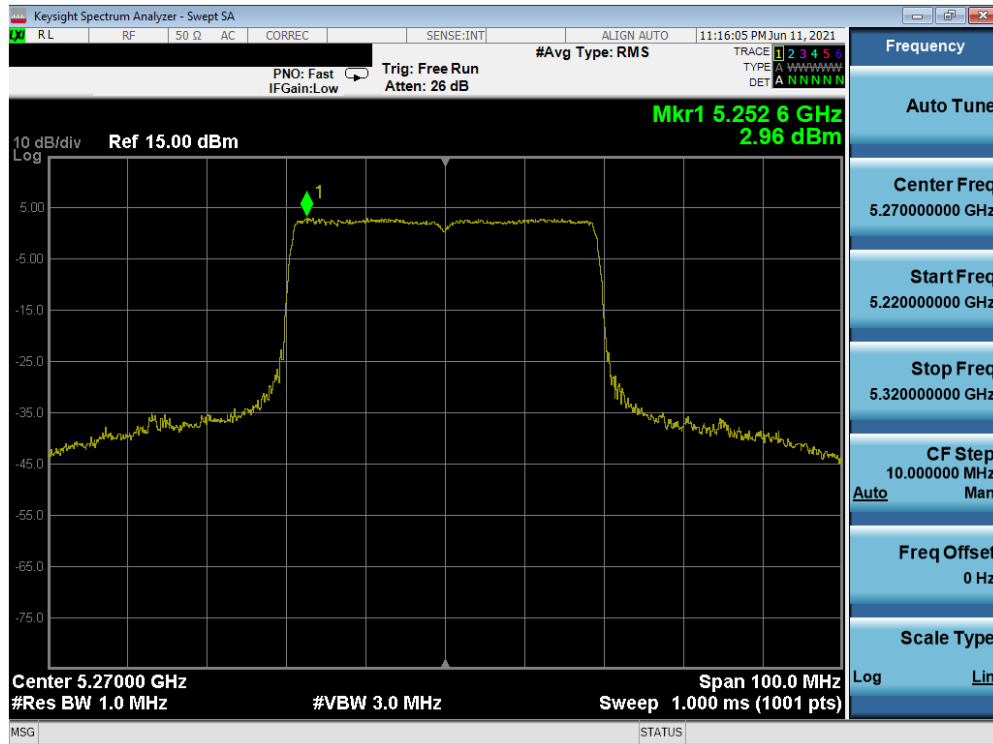


Plot 7-289. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

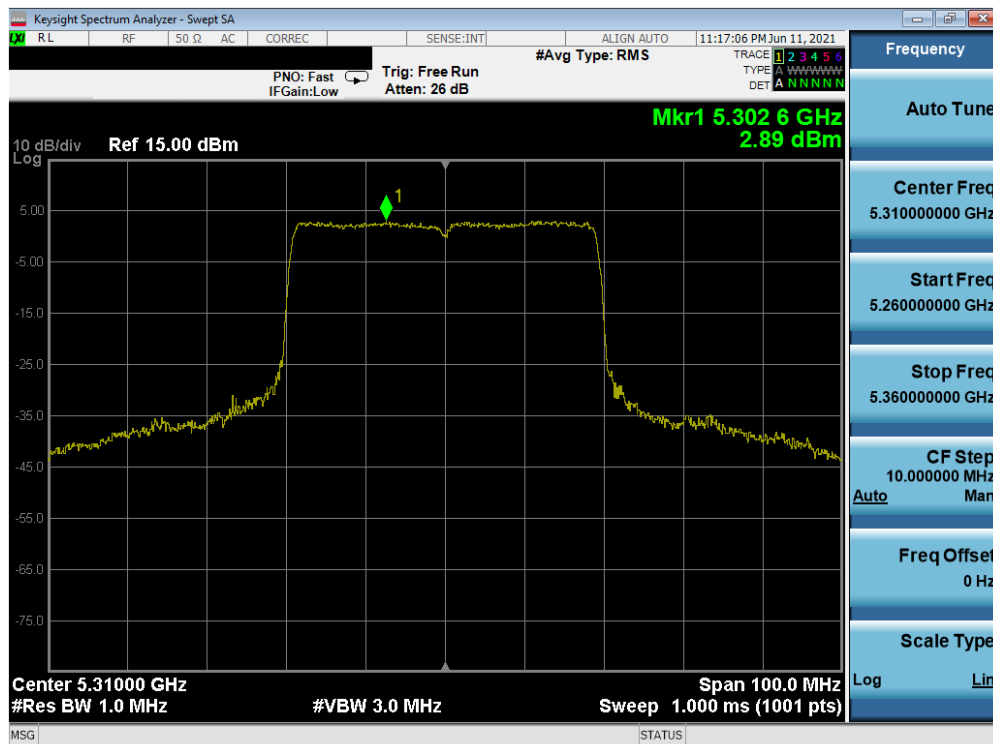


Plot 7-290. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 206 of 341

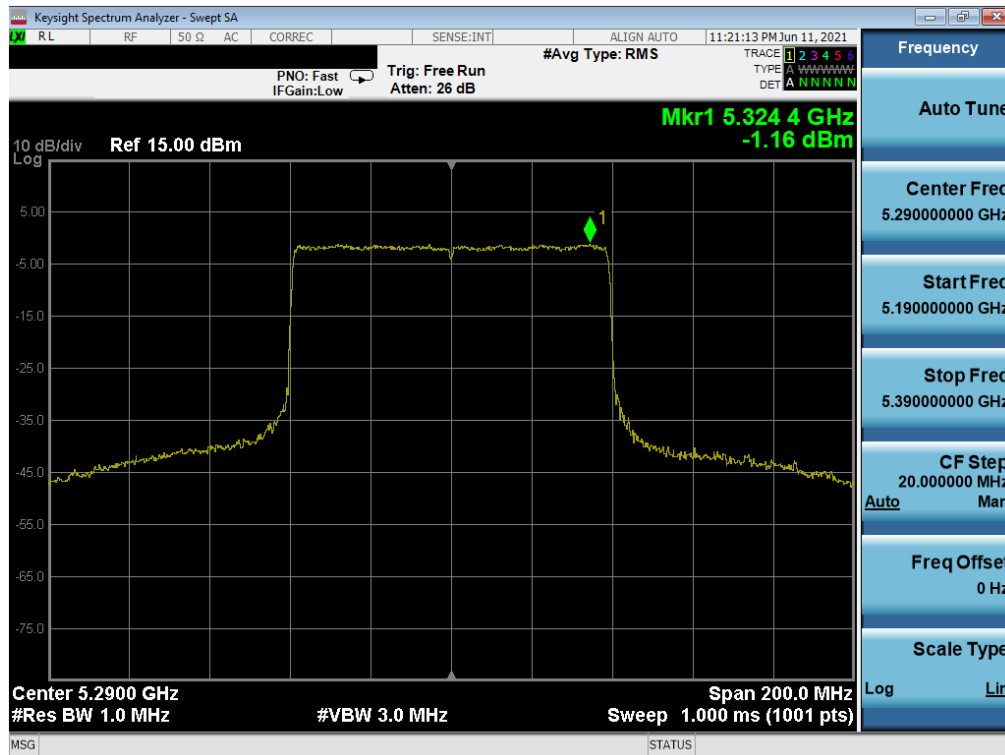


Plot 7-291. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

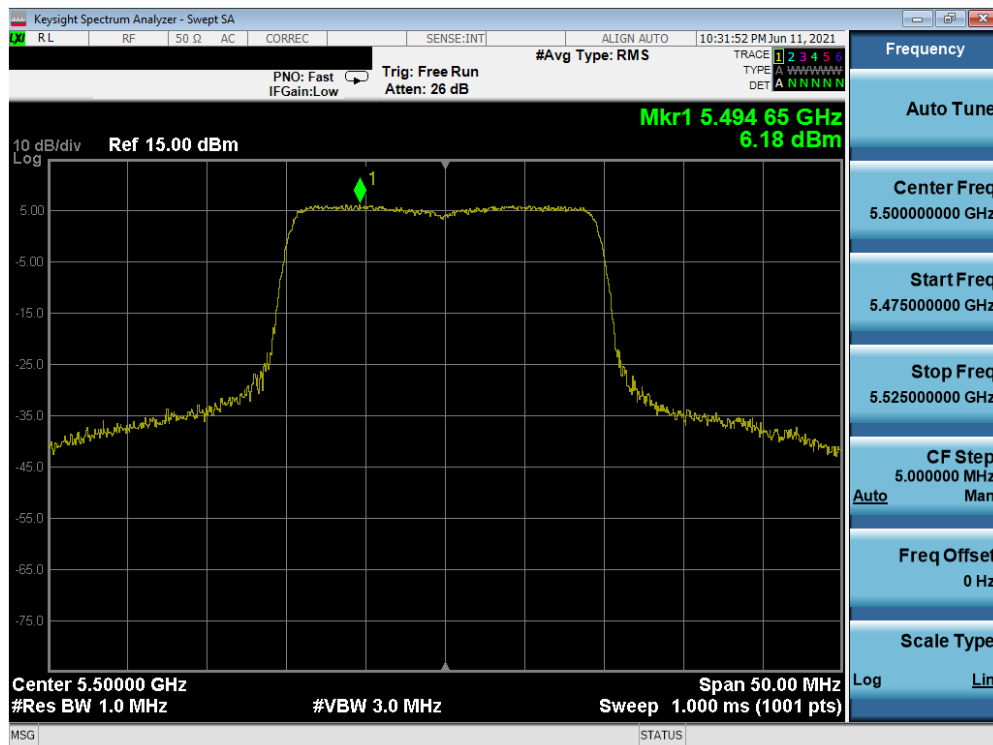


Plot 7-292. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 207 of 341

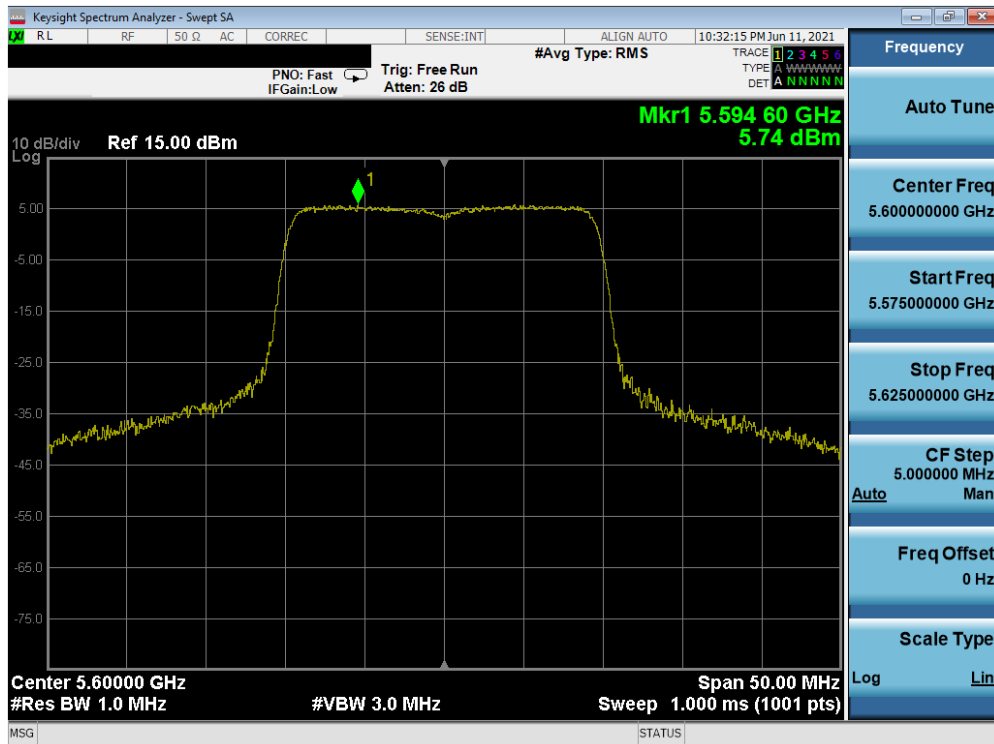


Plot 7-293. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

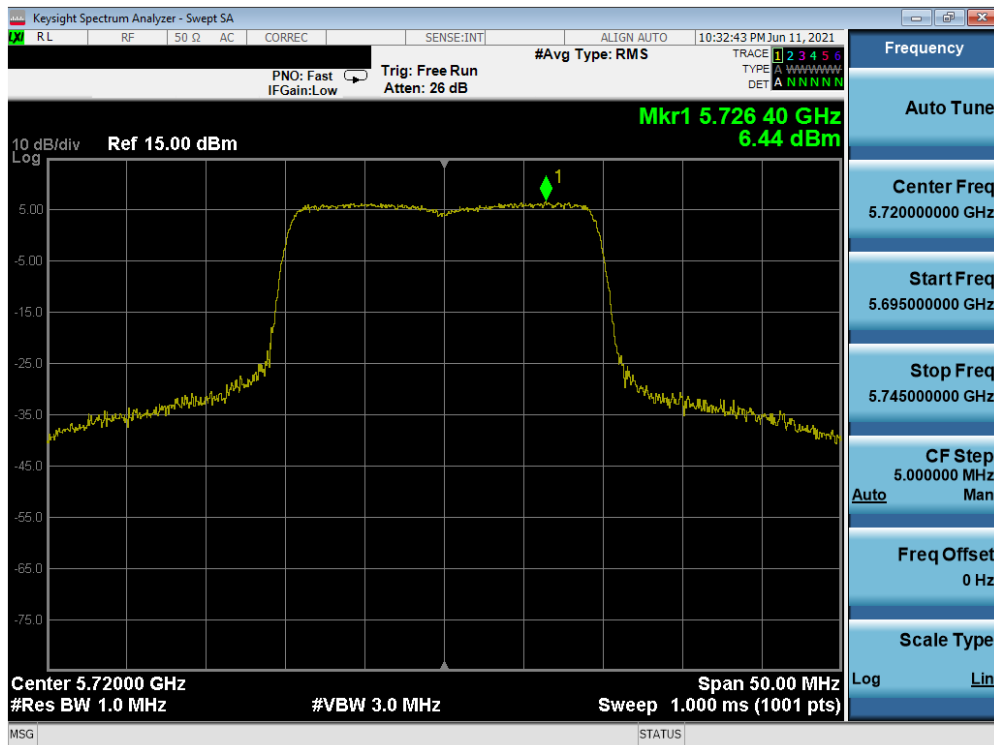


Plot 7-294. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 208 of 341

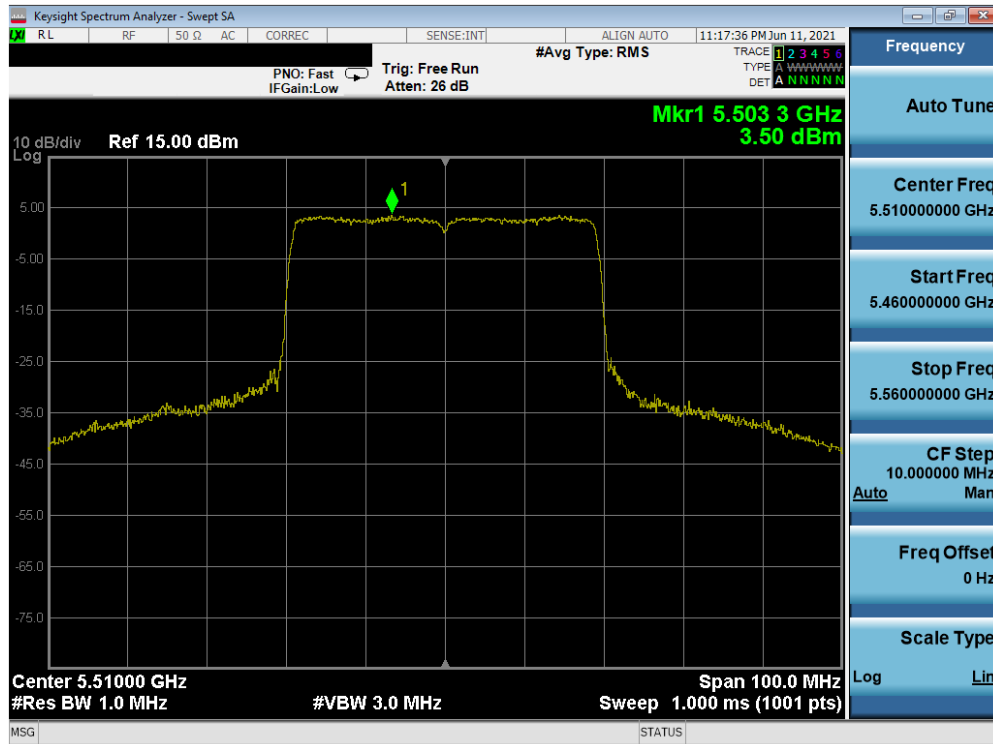


Plot 7-295. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

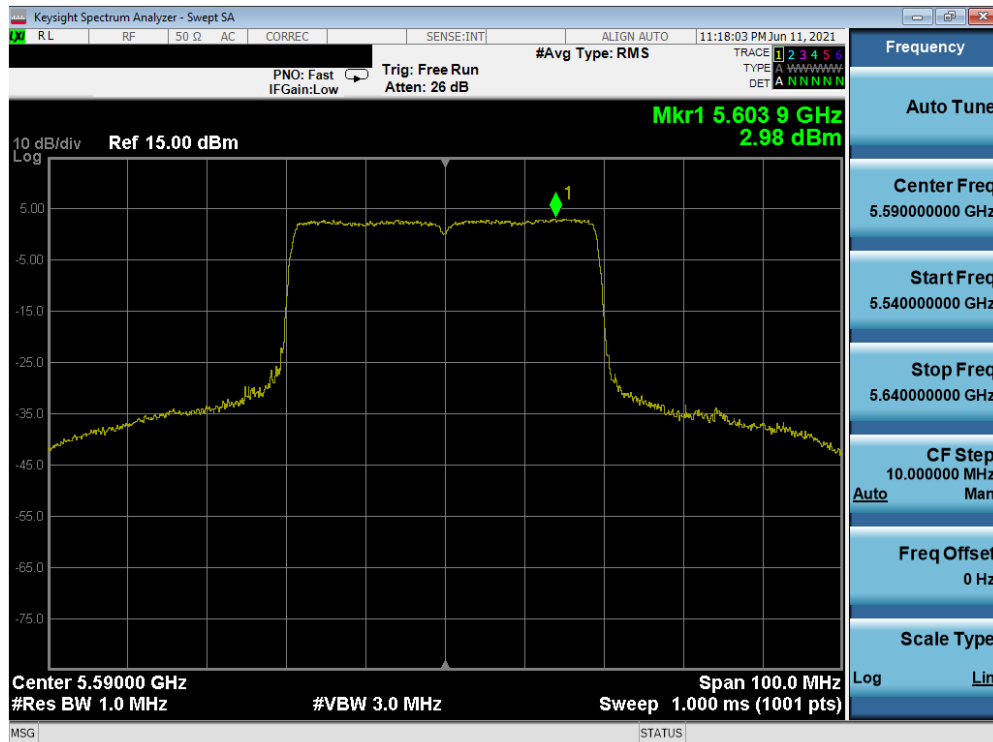


Plot 7-296. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 209 of 341

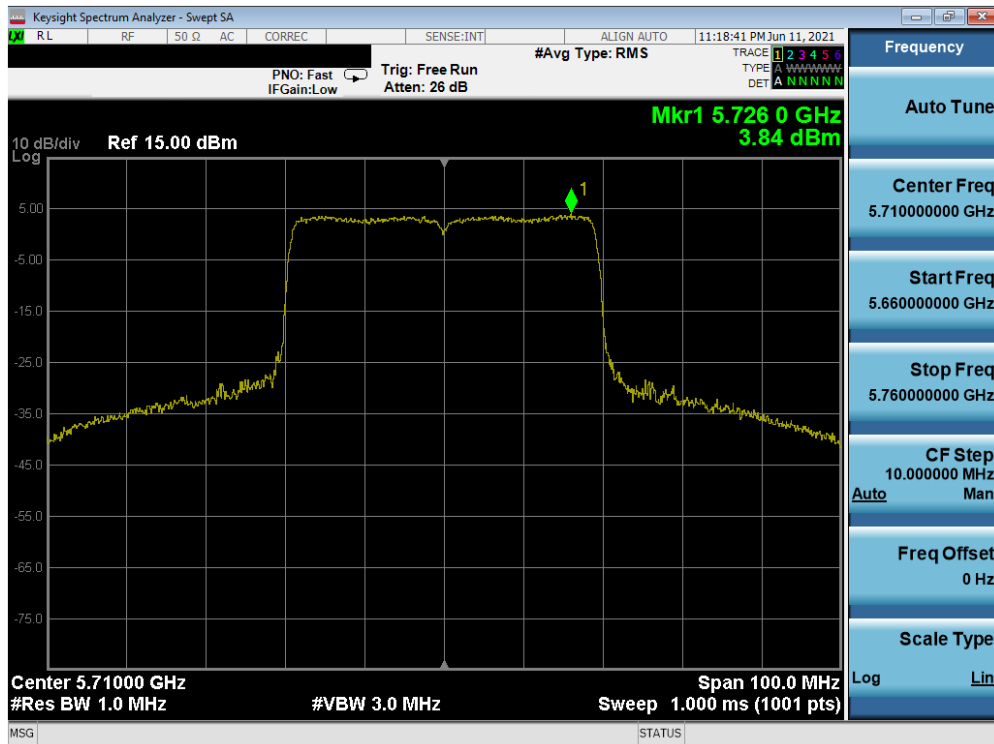


Plot 7-297. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

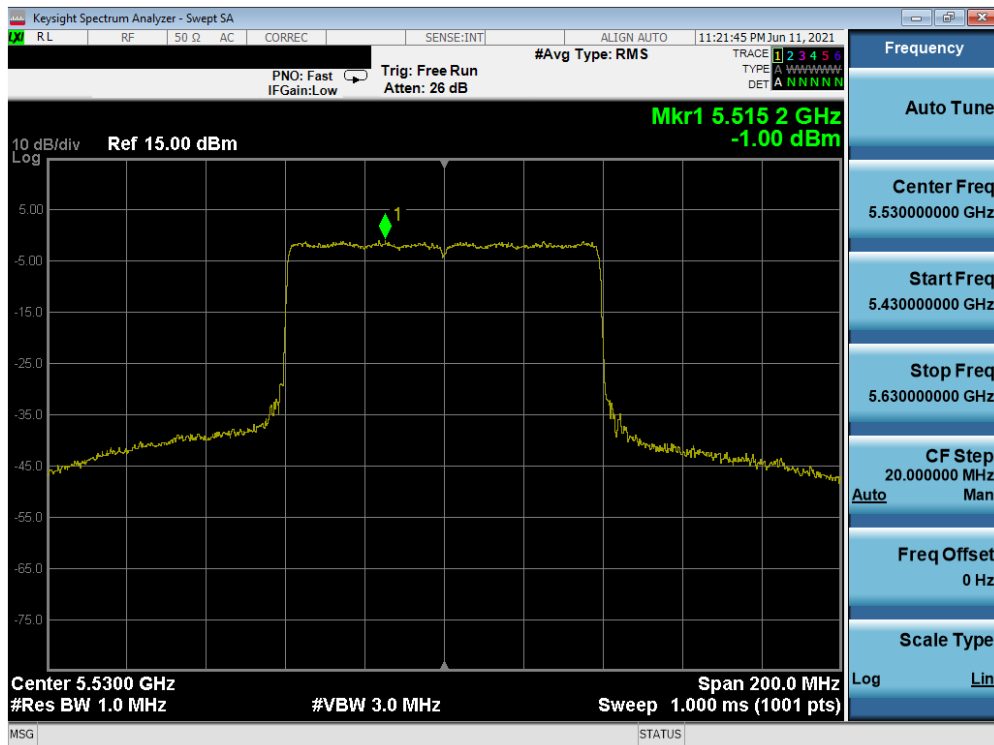


Plot 7-298. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 210 of 341

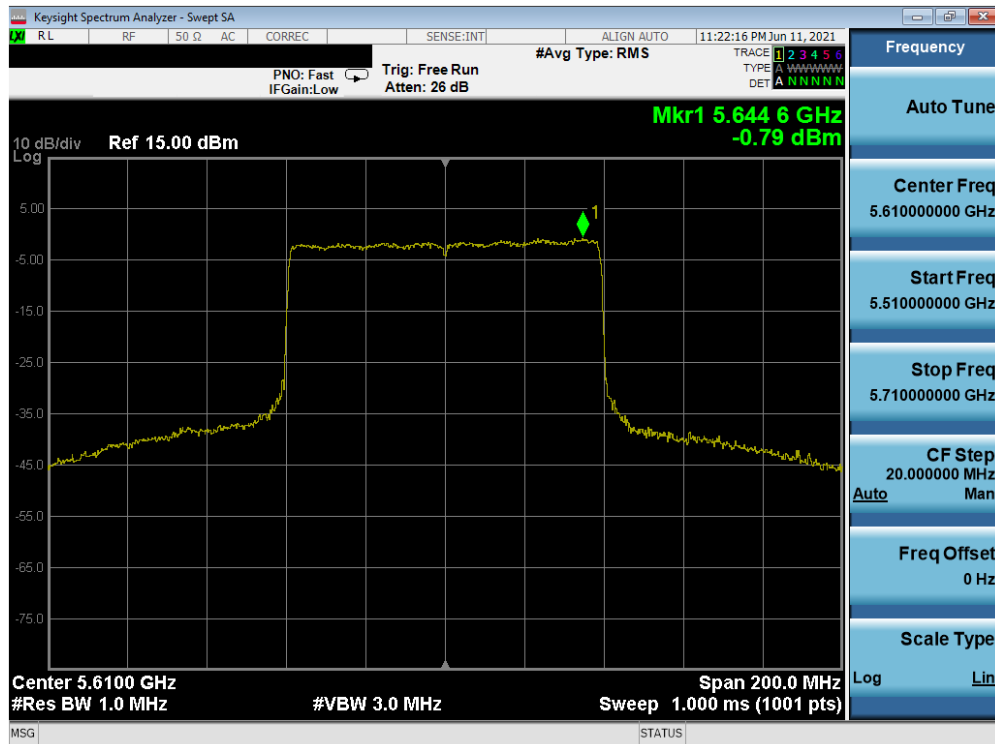


Plot 7-299. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

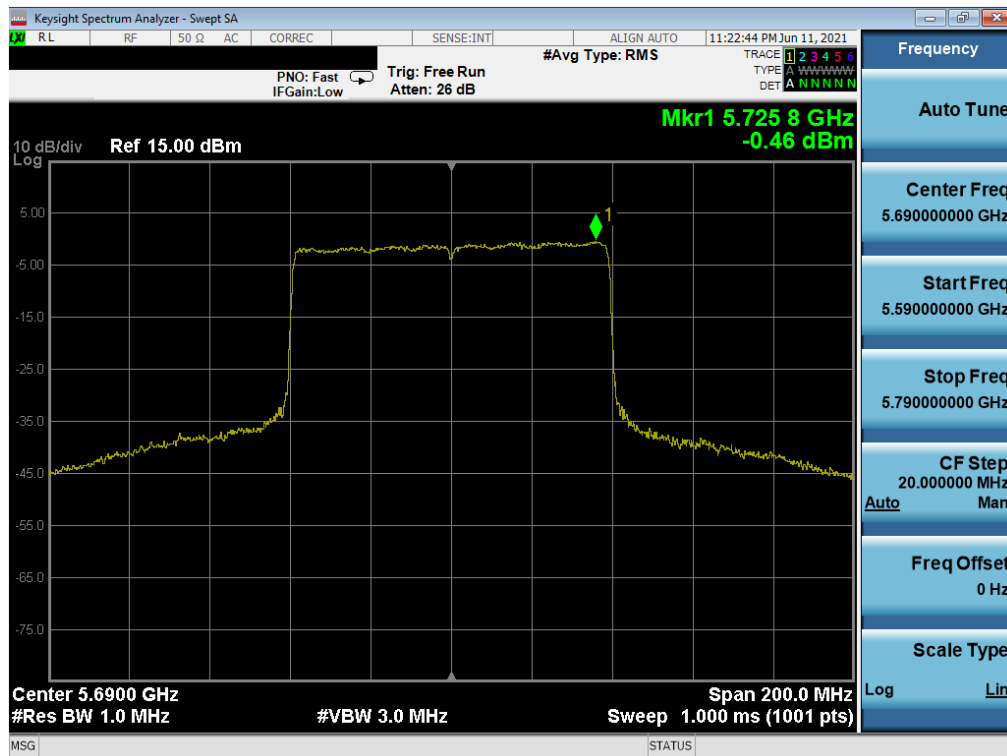


Plot 7-300. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 211 of 341

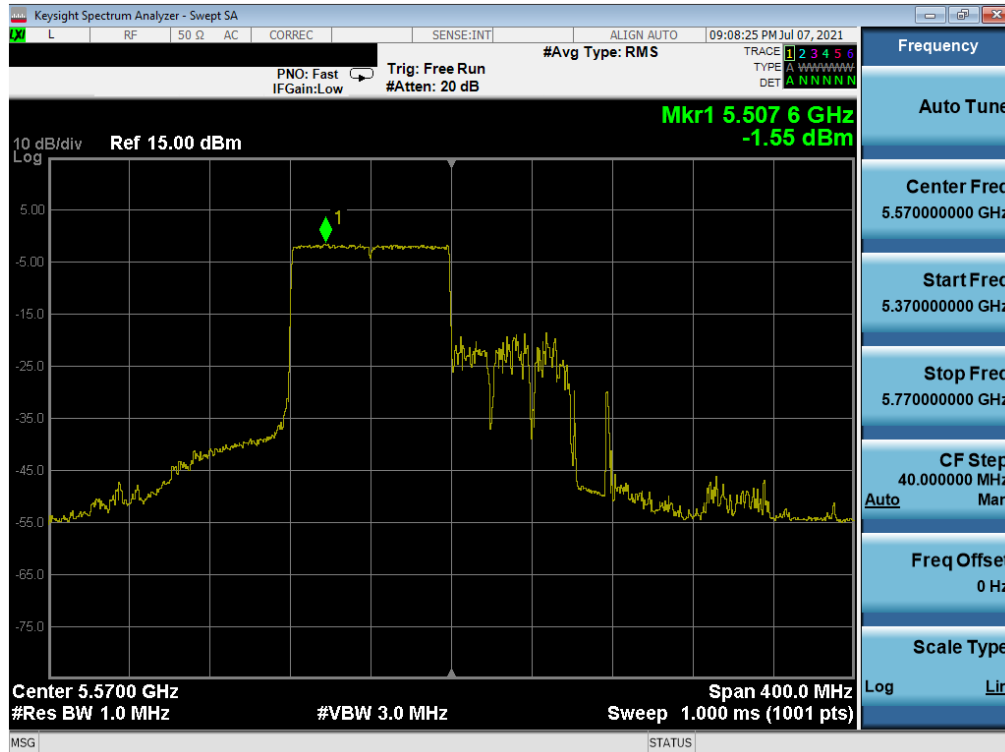


Plot 7-301. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

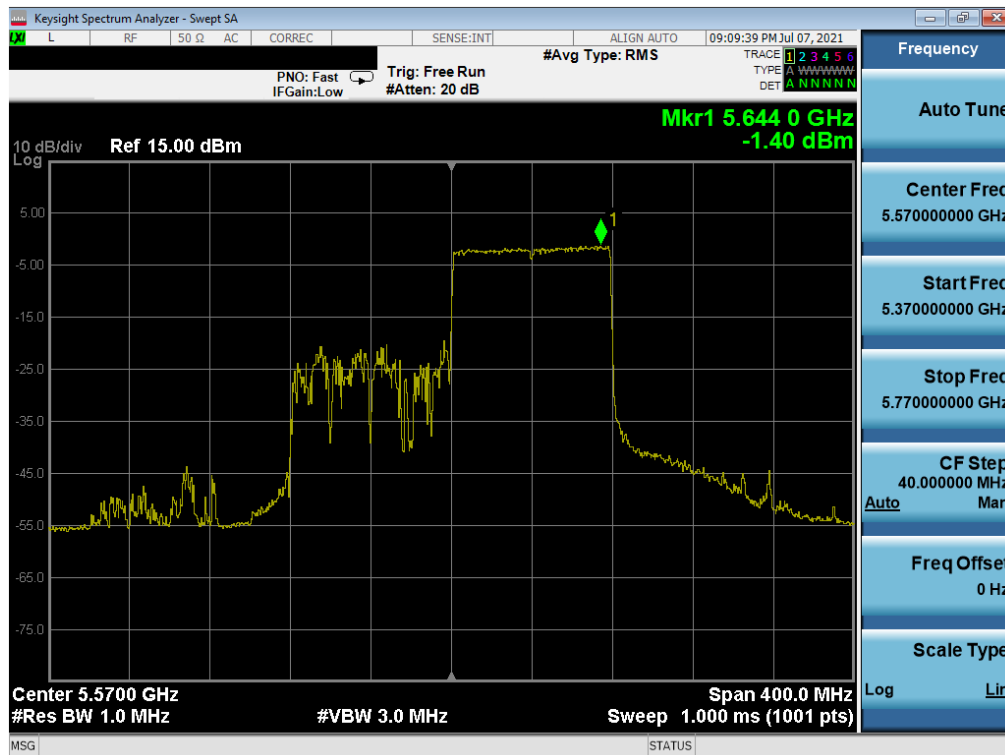


Plot 7-302. Power Spectral Density Plot MIMO SOUTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 212 of 341

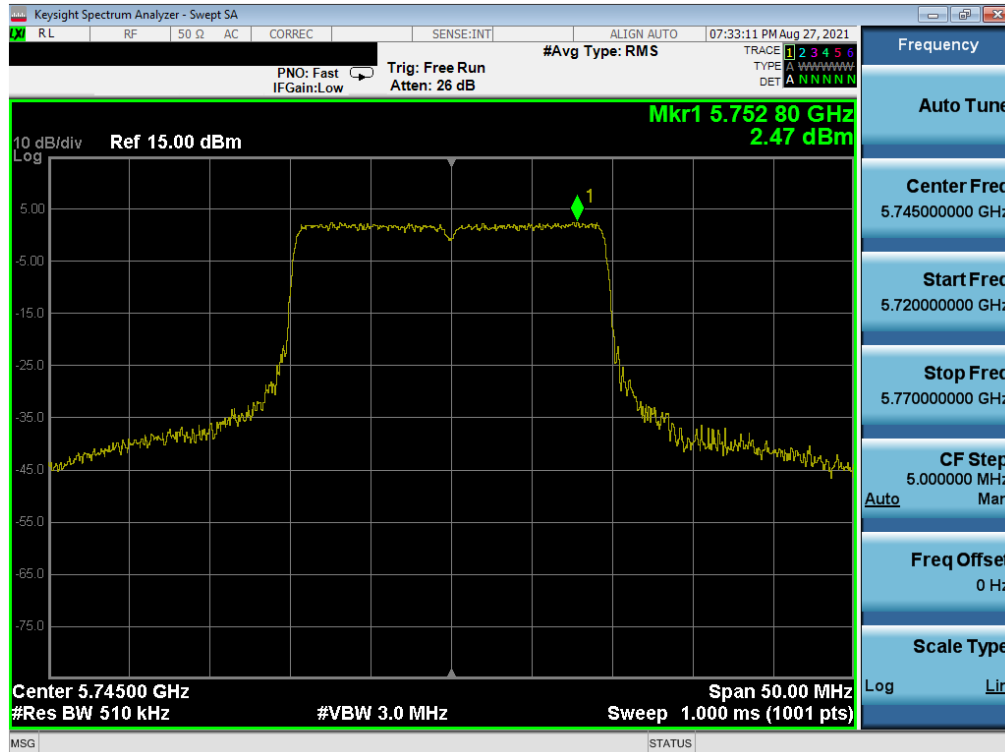


Plot 7-303. Power Spectral Density Plot MIMO SOUTH (160MHz (L) BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

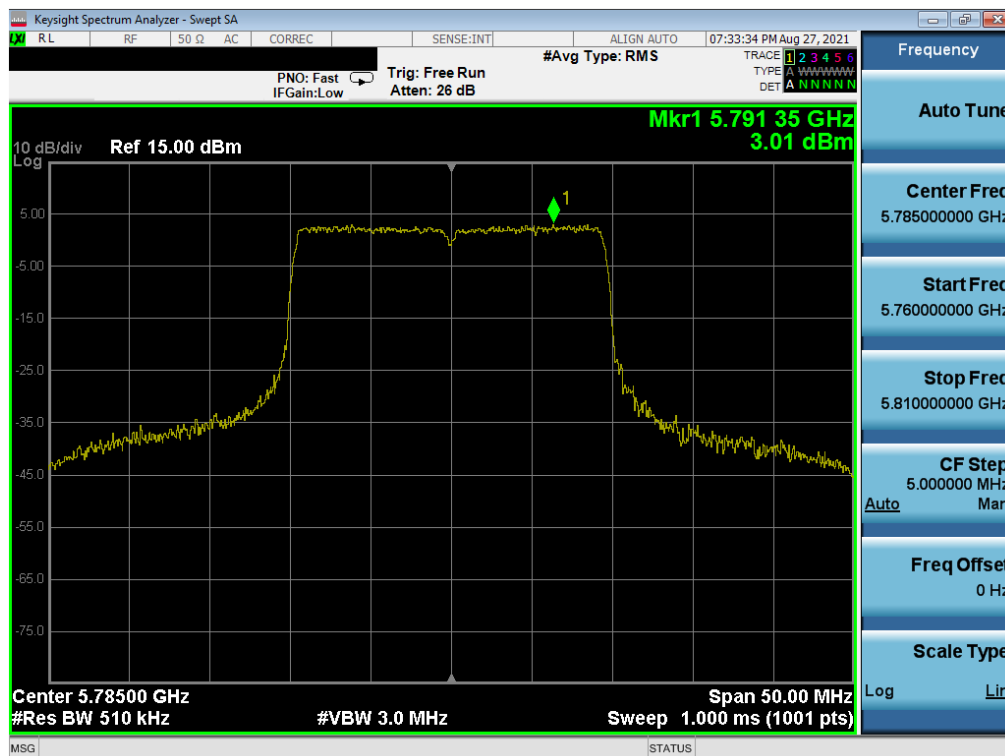


Plot 7-304. Power Spectral Density Plot MIMO SOUTH (160MHz (U) BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 213 of 341

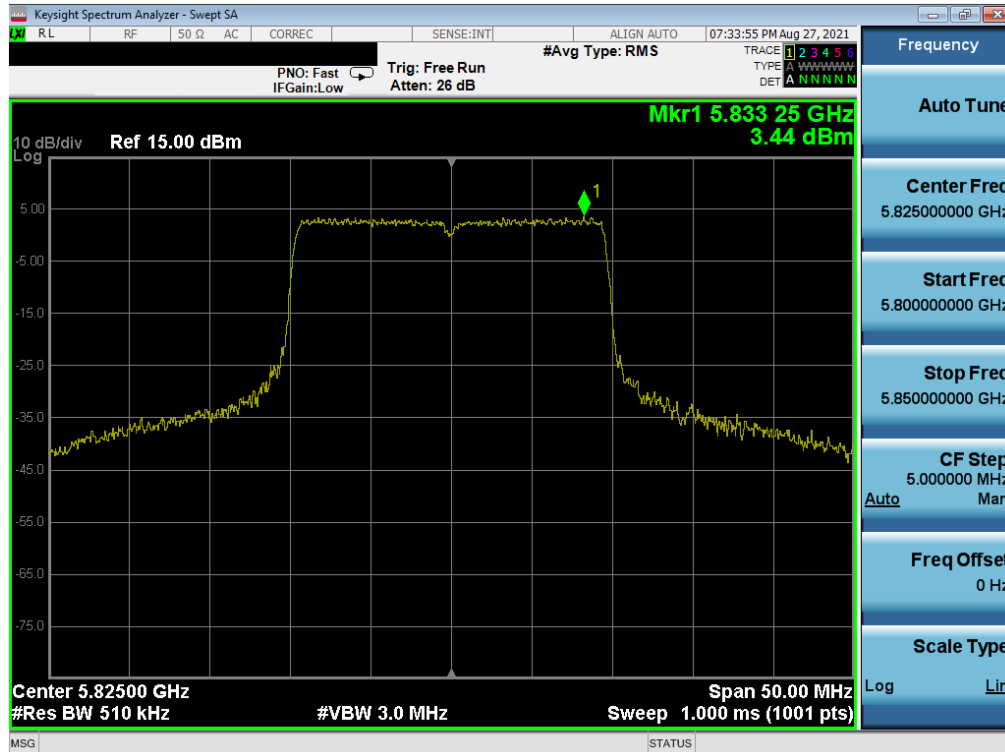


Plot 7-305. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

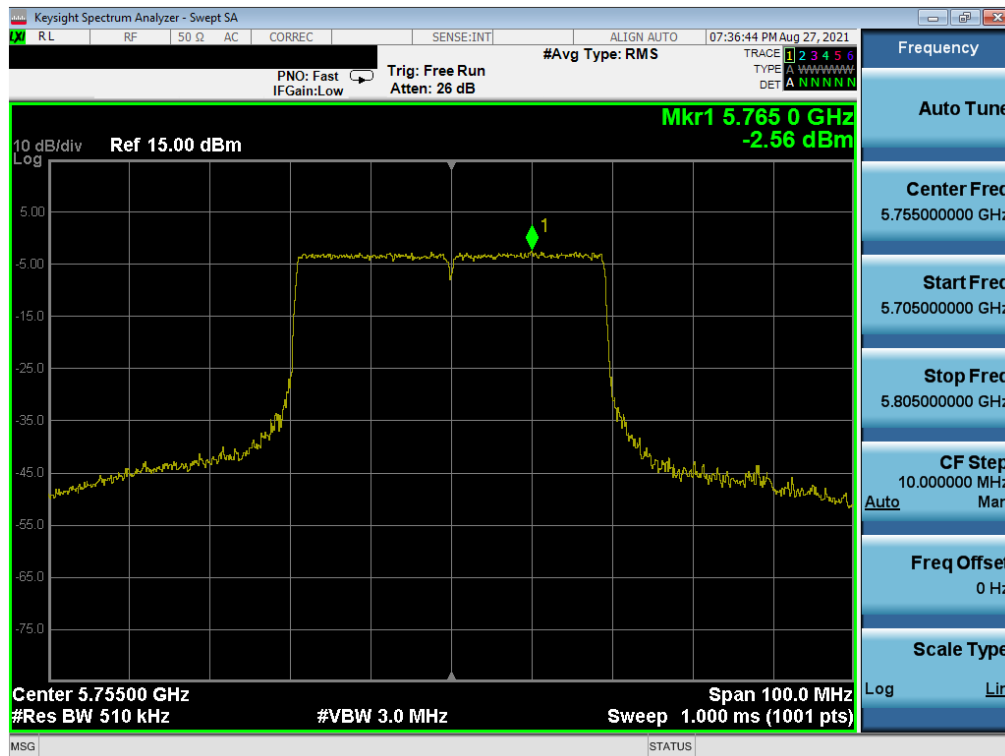


Plot 7-306. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 214 of 341

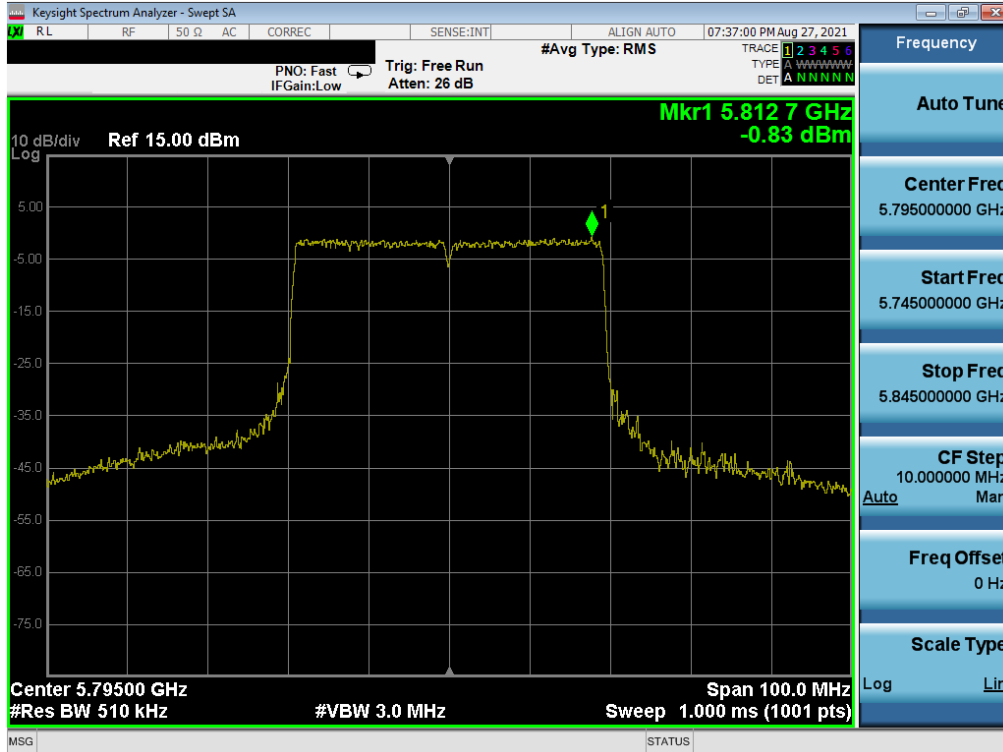


Plot 7-307. Power Spectral Density Plot MIMO SOUTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

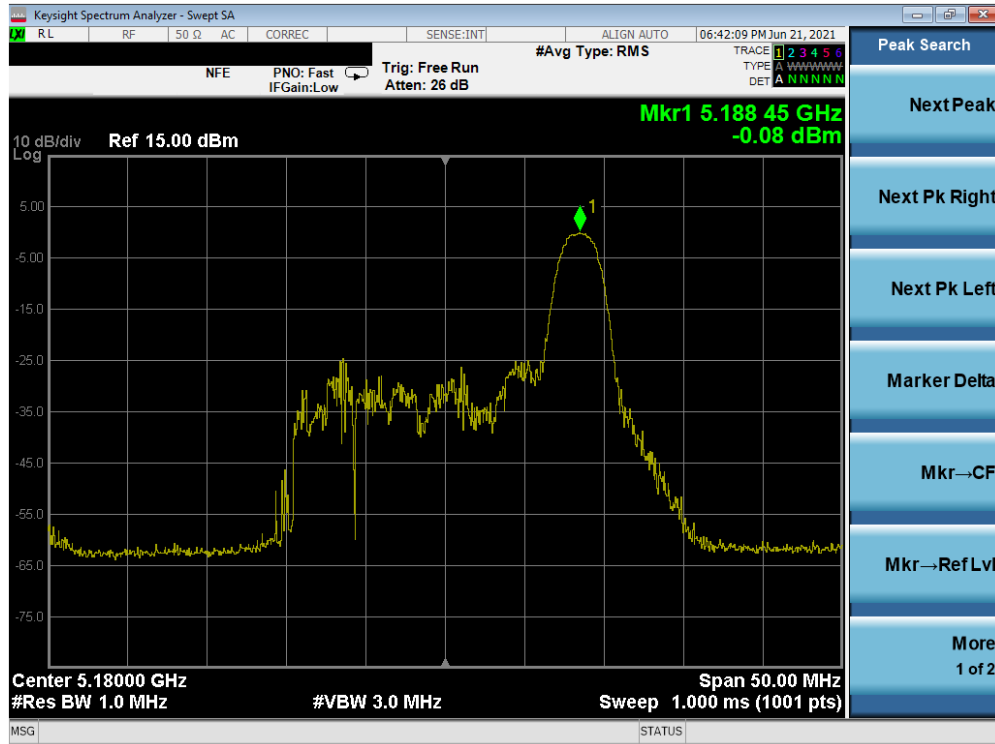


Plot 7-308. Power Spectral Density Plot MIMO SOUTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

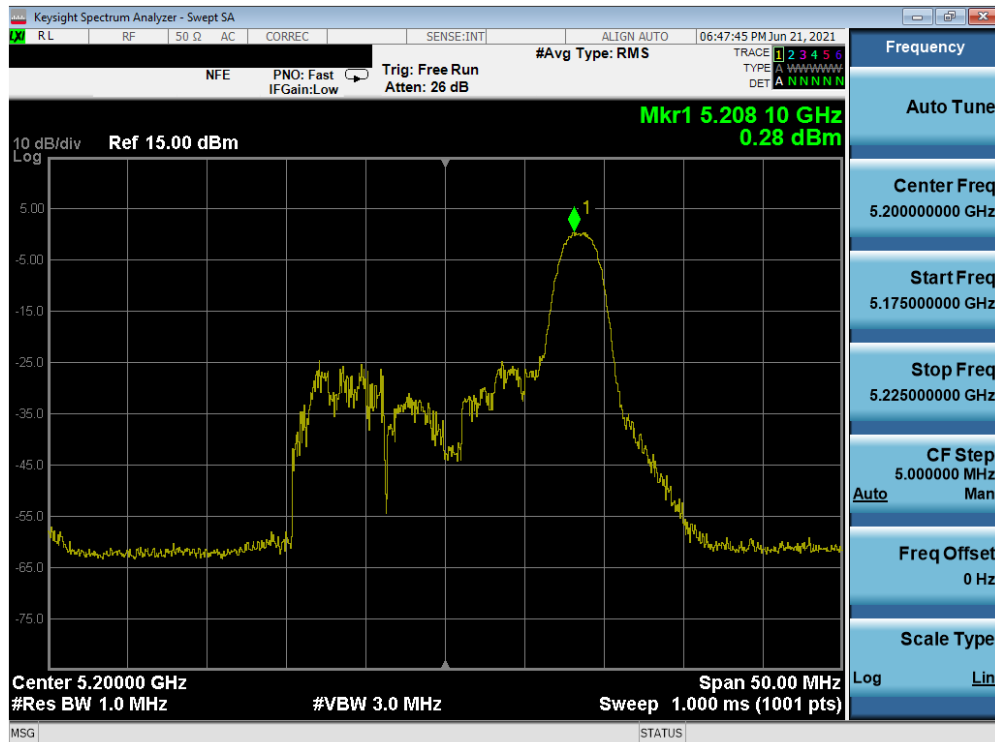
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 215 of 341



MIMO NORTH Power Spectral Density Measurements (26 Tones)

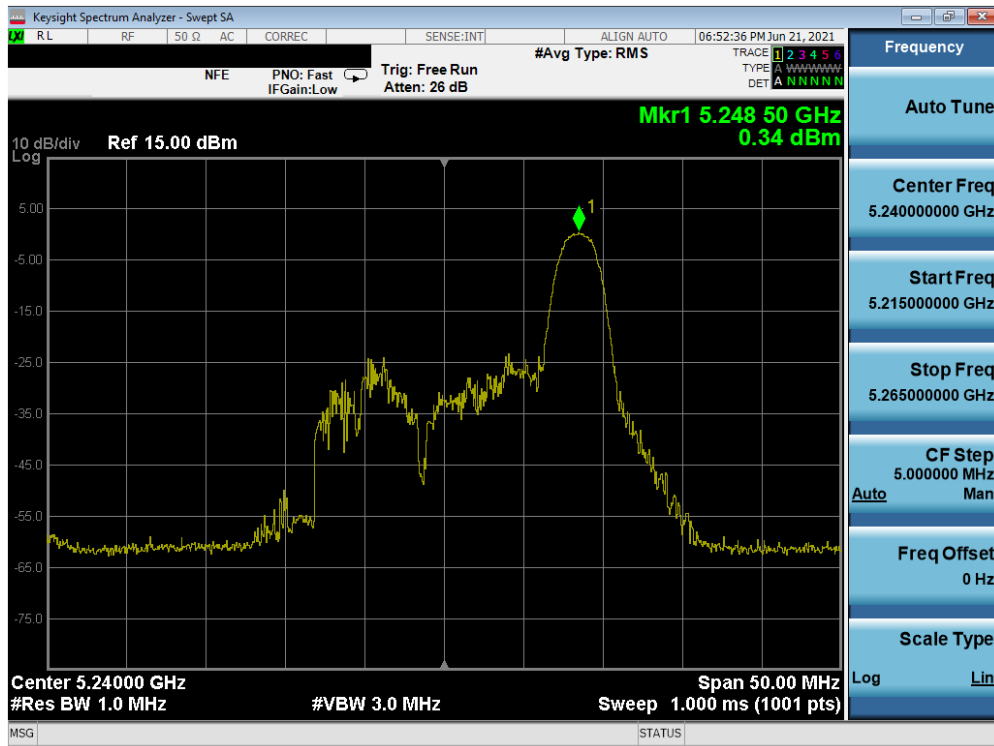


Plot 7-311. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

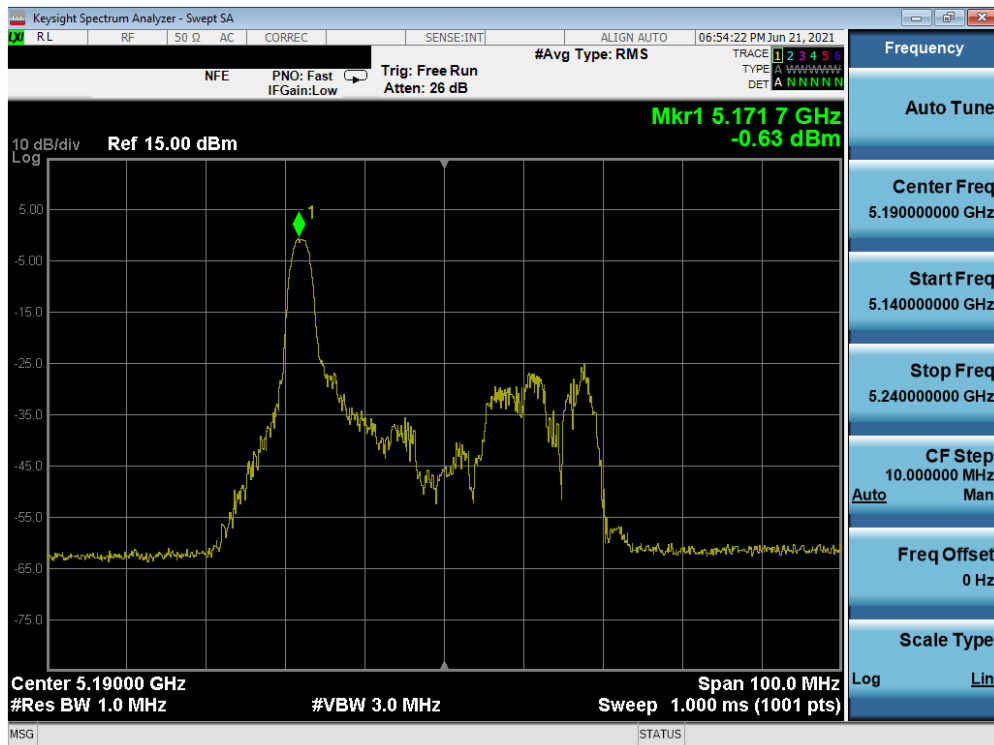


Plot 7-312. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 217 of 341

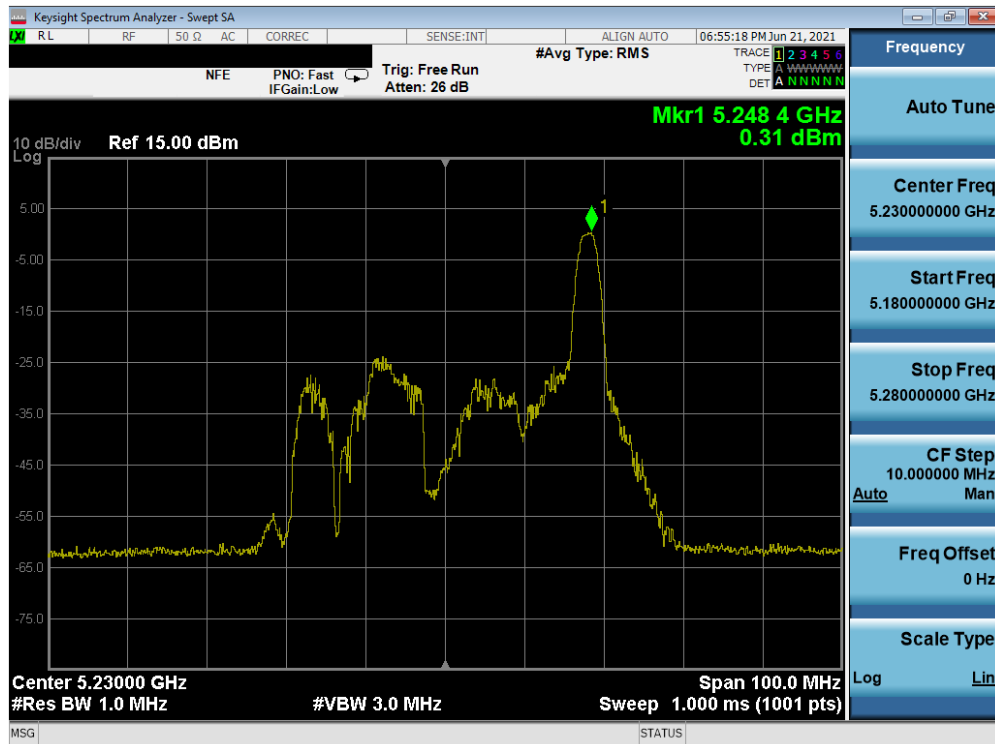


Plot 7-313. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)

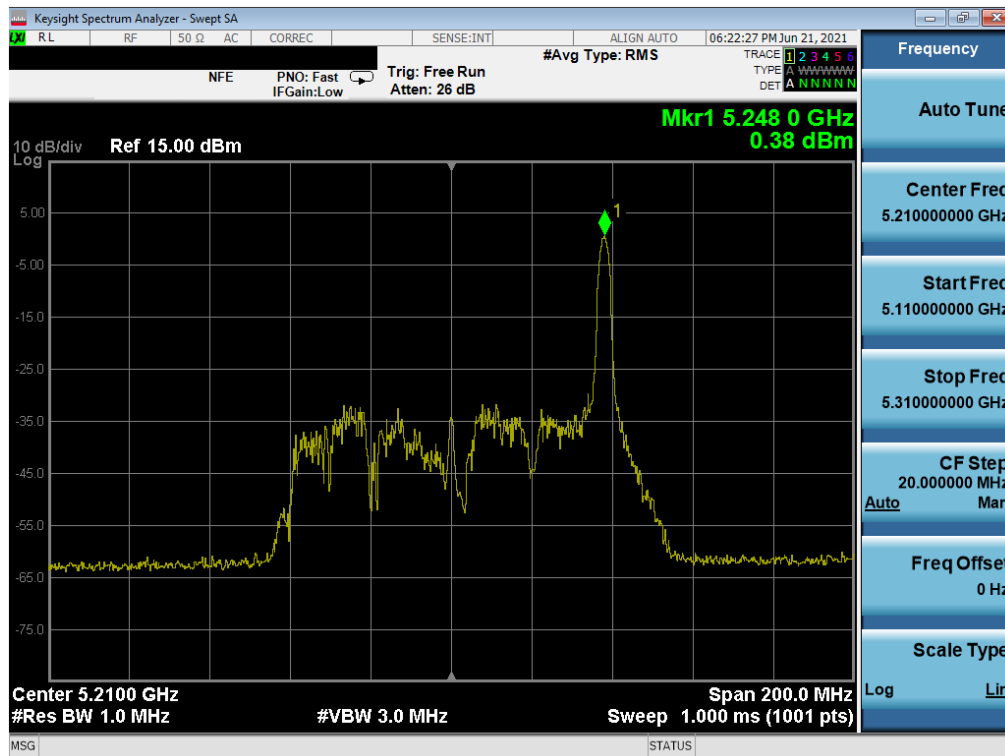


Plot 7-314. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 218 of 341

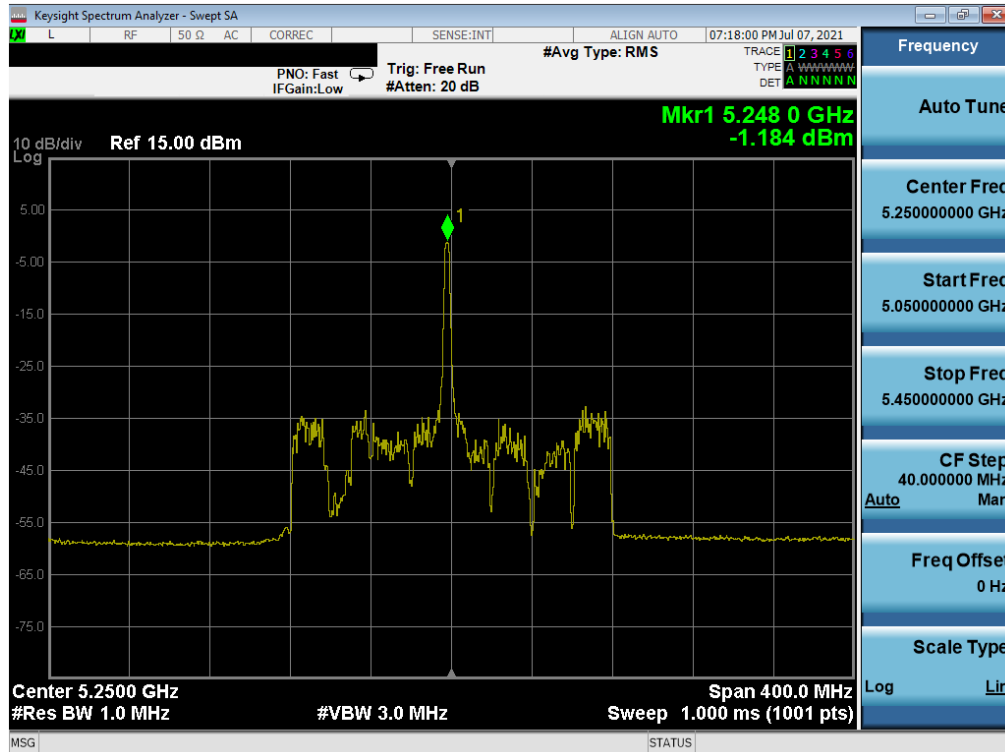


Plot 7-315. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-316. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 219 of 341

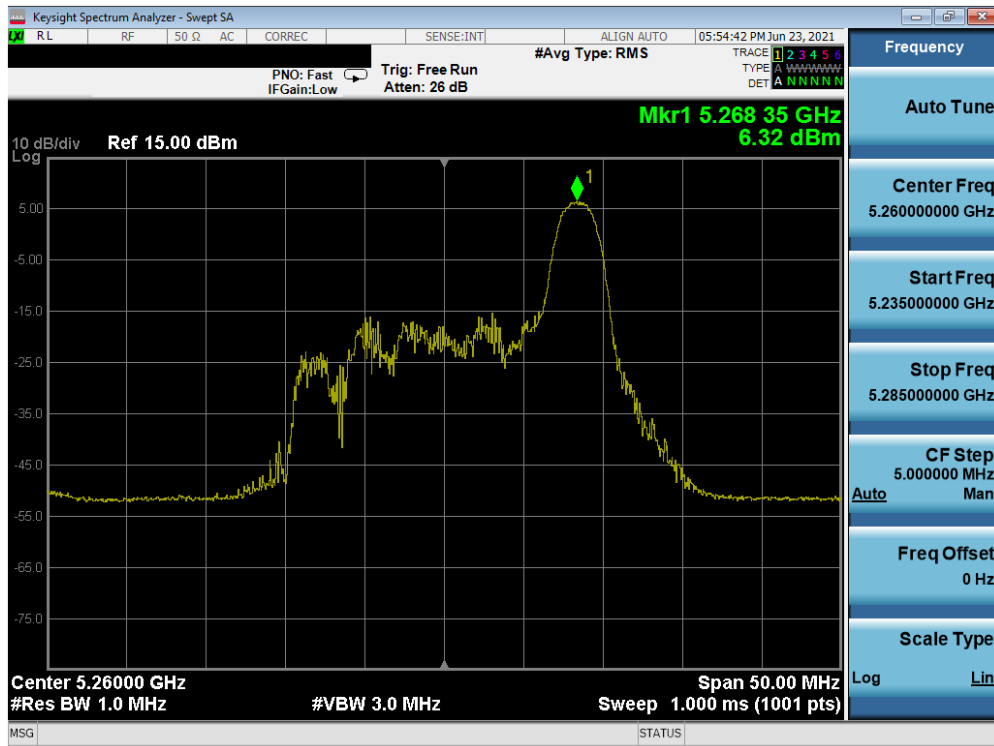


Plot 7-317. Power Spectral Density Plot MIMO NORTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 1) – Ch. 50)

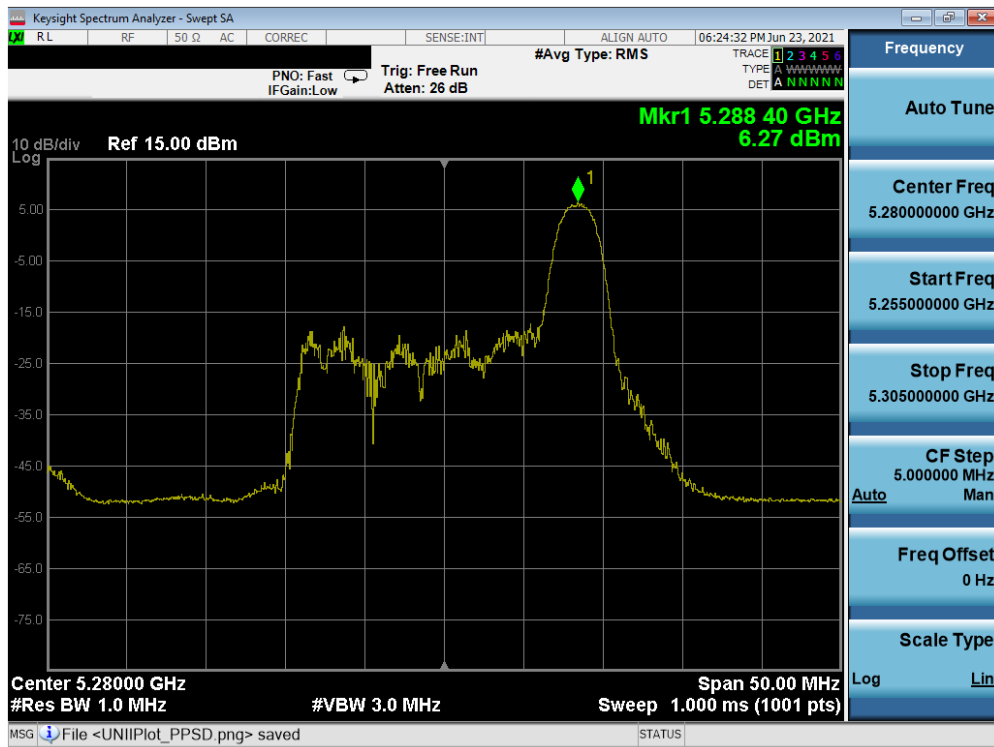


Plot 7-318. Power Spectral Density Plot MIMO NORTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2A) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 220 of 341

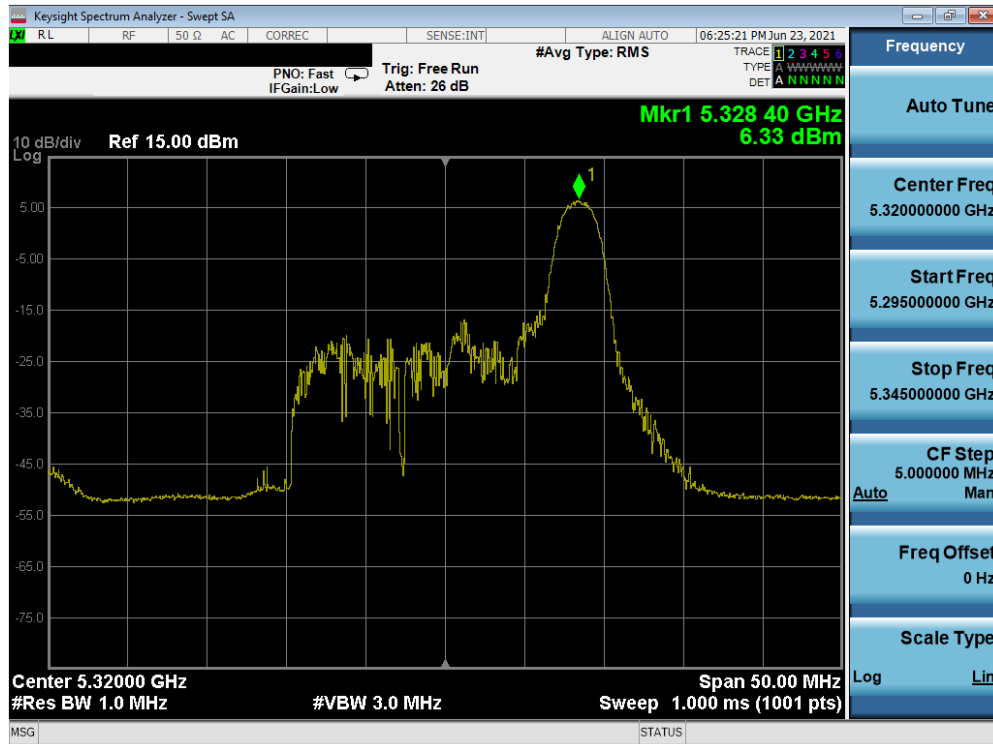


Plot 7-319. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

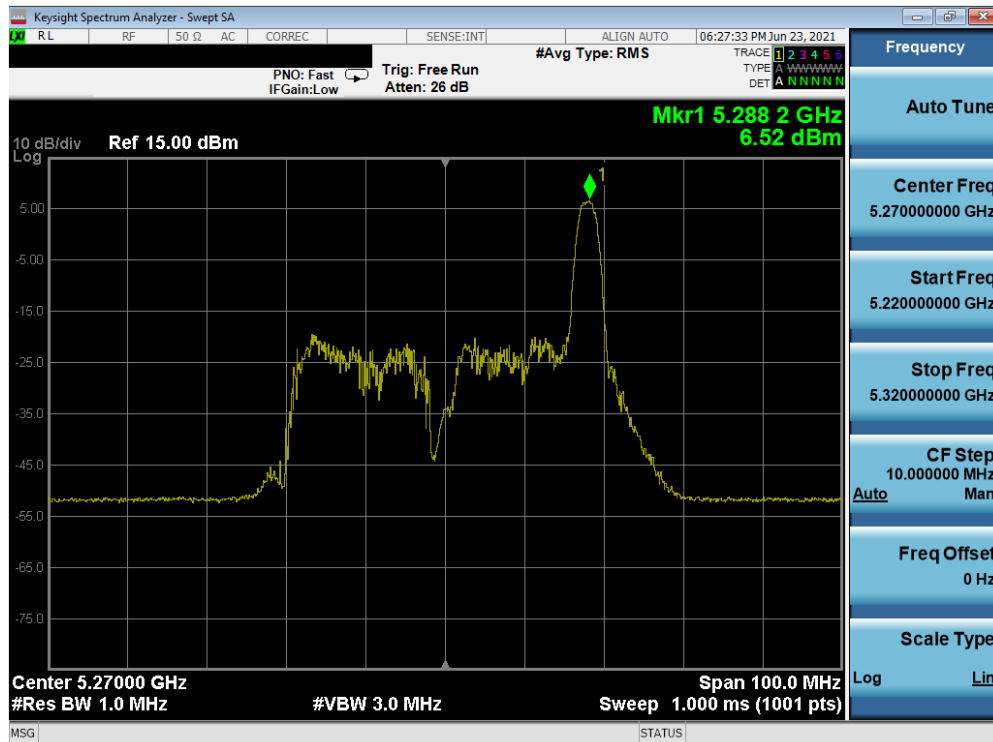


Plot 7-320. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 221 of 341

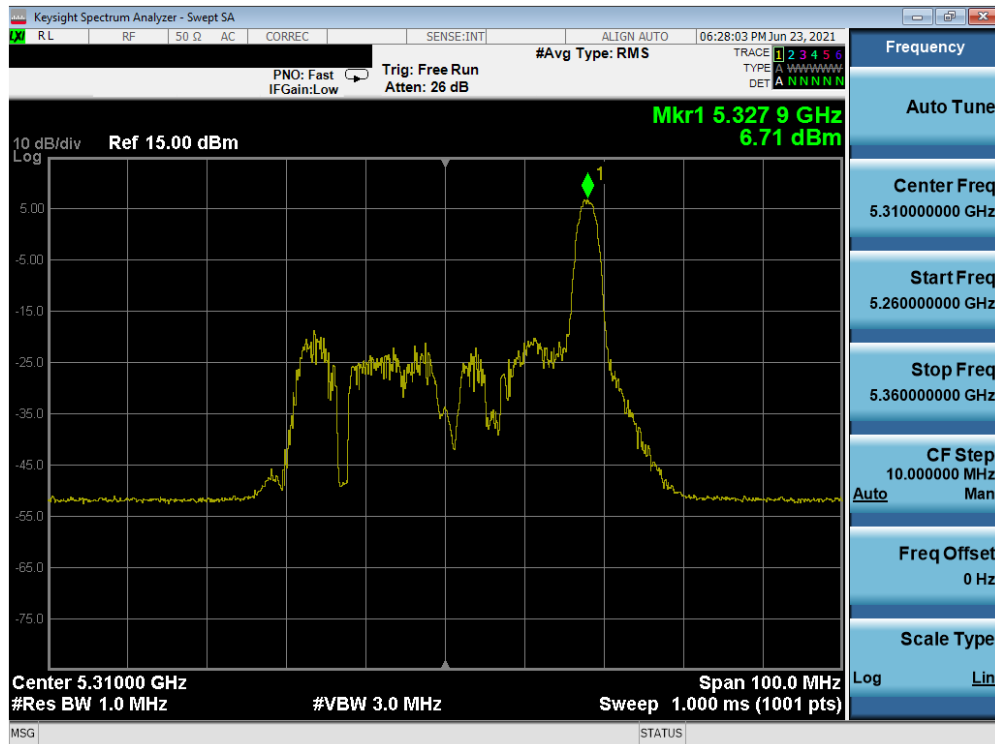


Plot 7-321. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

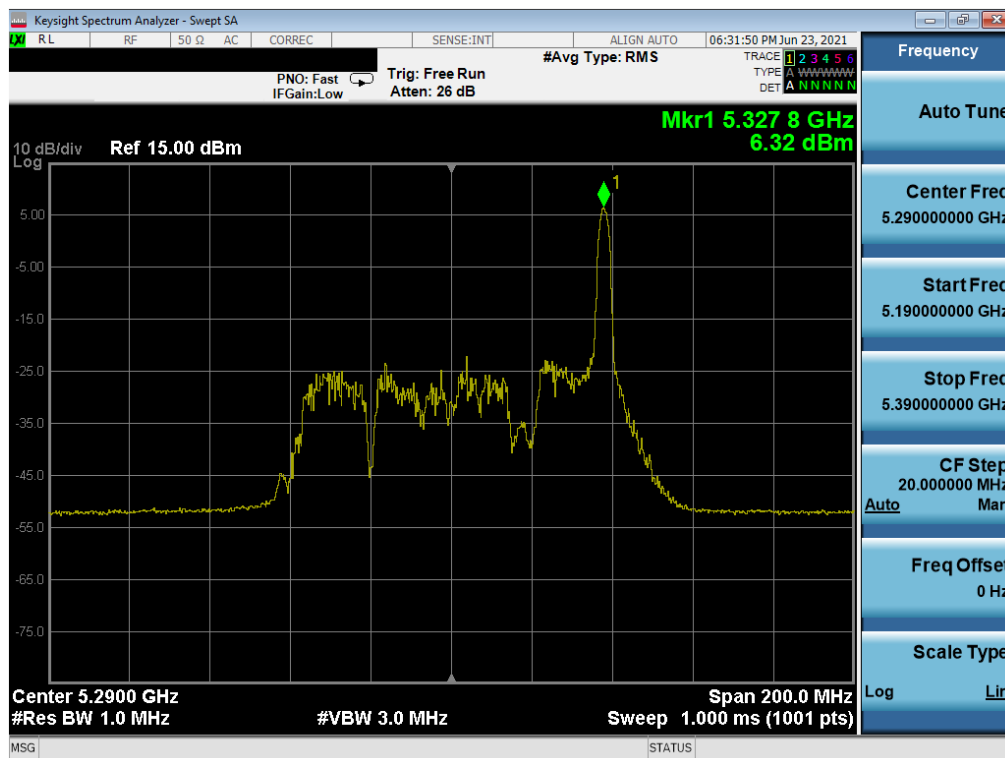


Plot 7-322. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 222 of 341

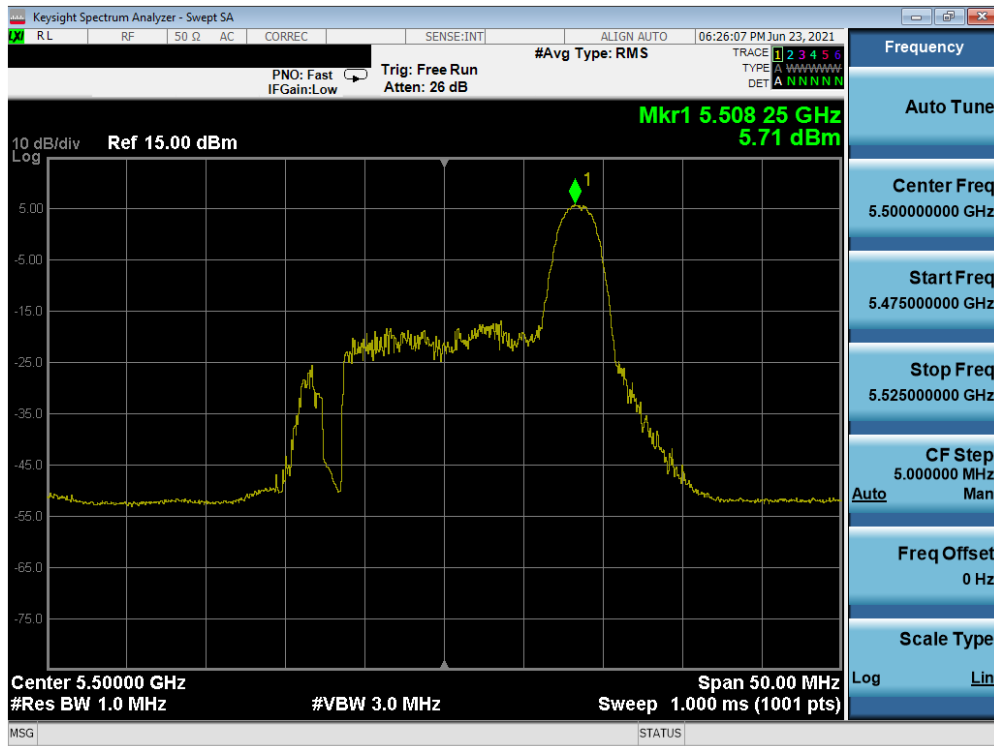


Plot 7-323. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

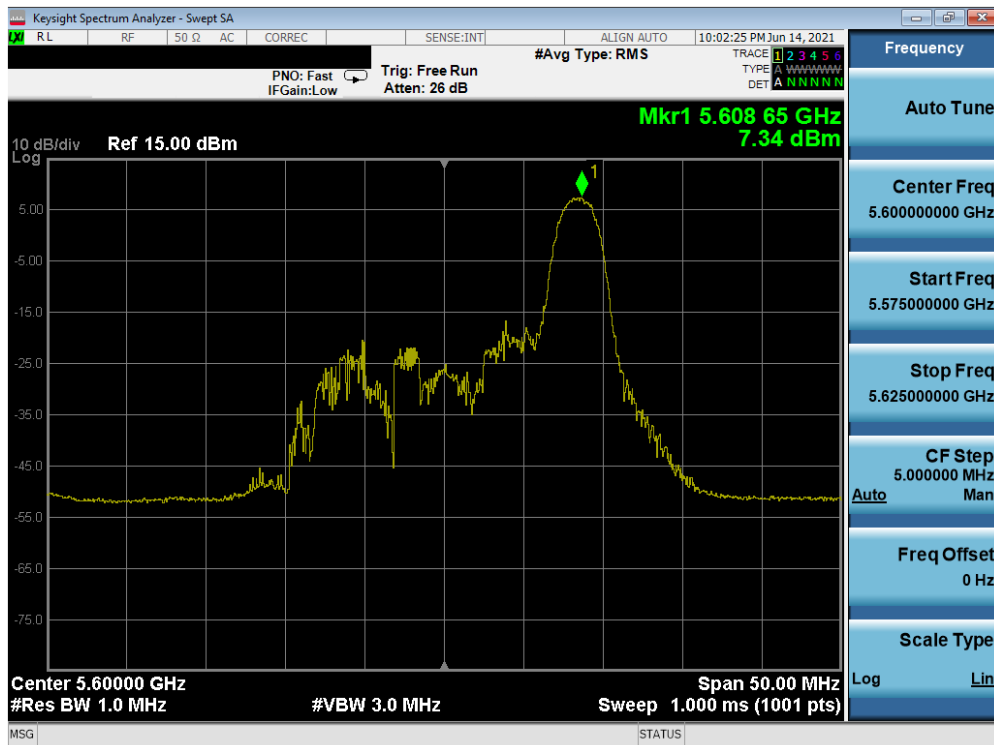


Plot 7-324. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 223 of 341

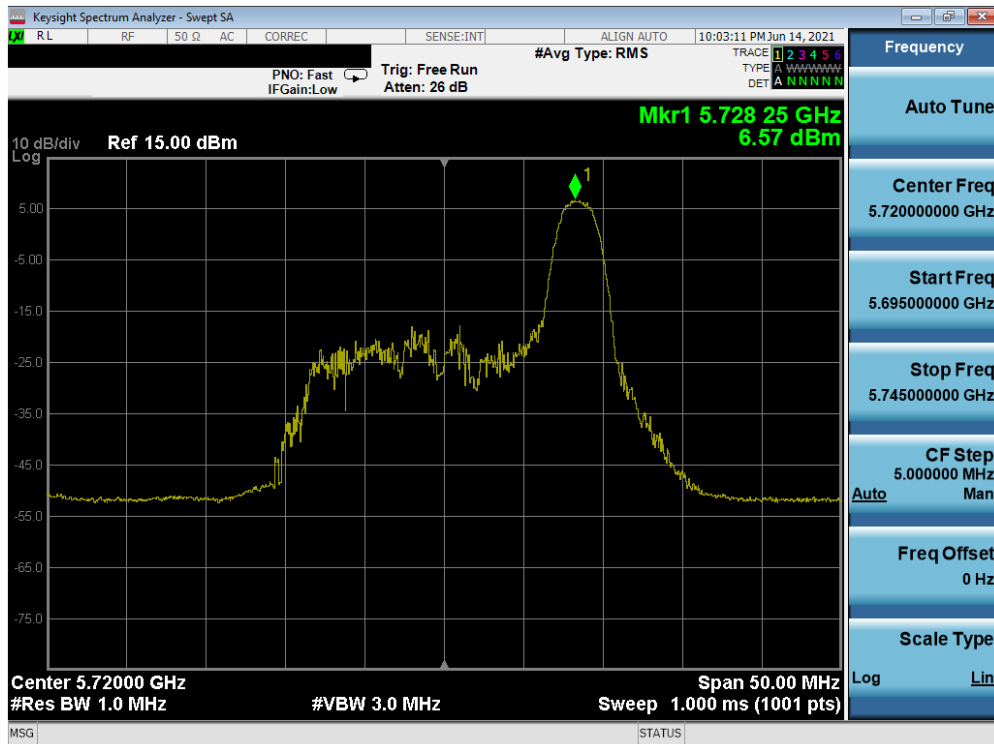


Plot 7-325. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)

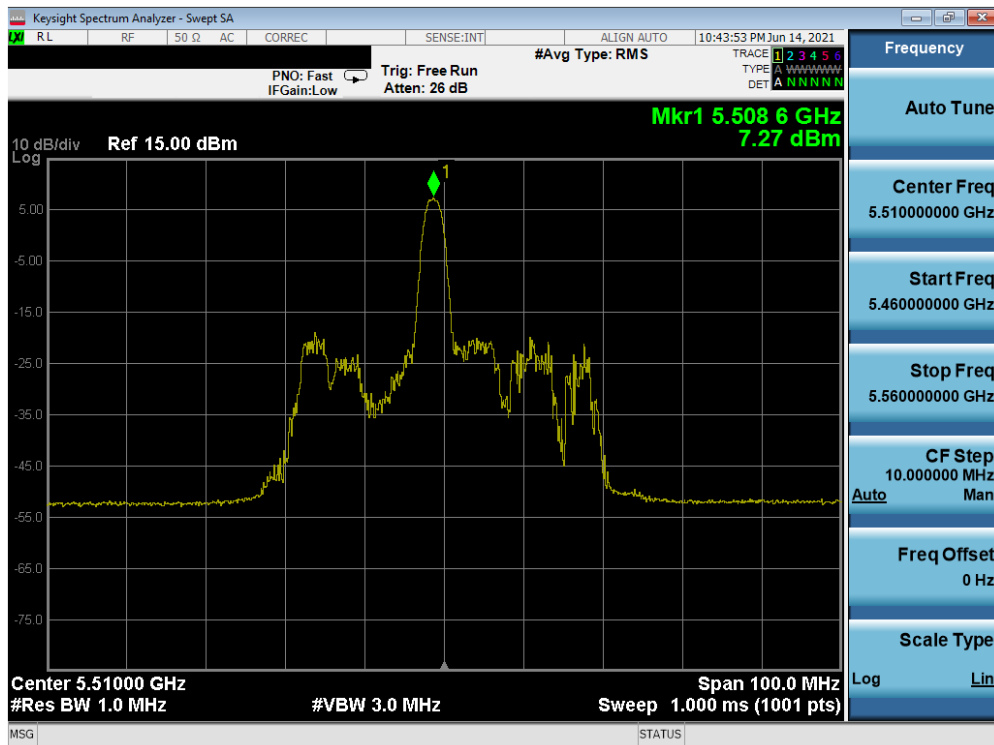


Plot 7-326. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 224 of 341

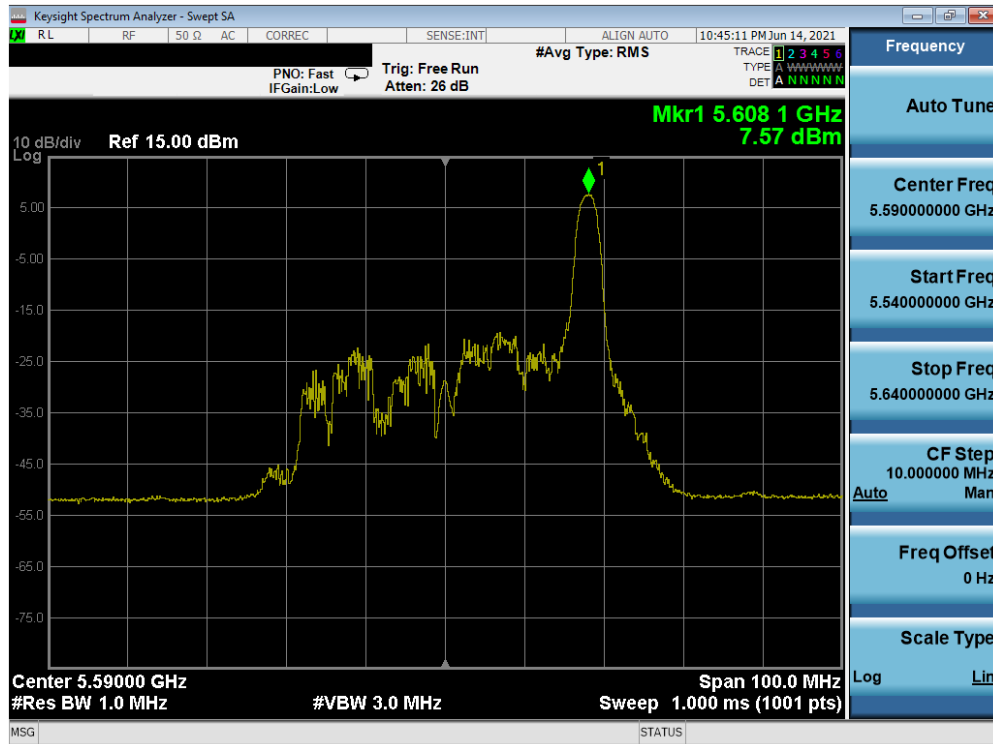


Plot 7-327. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

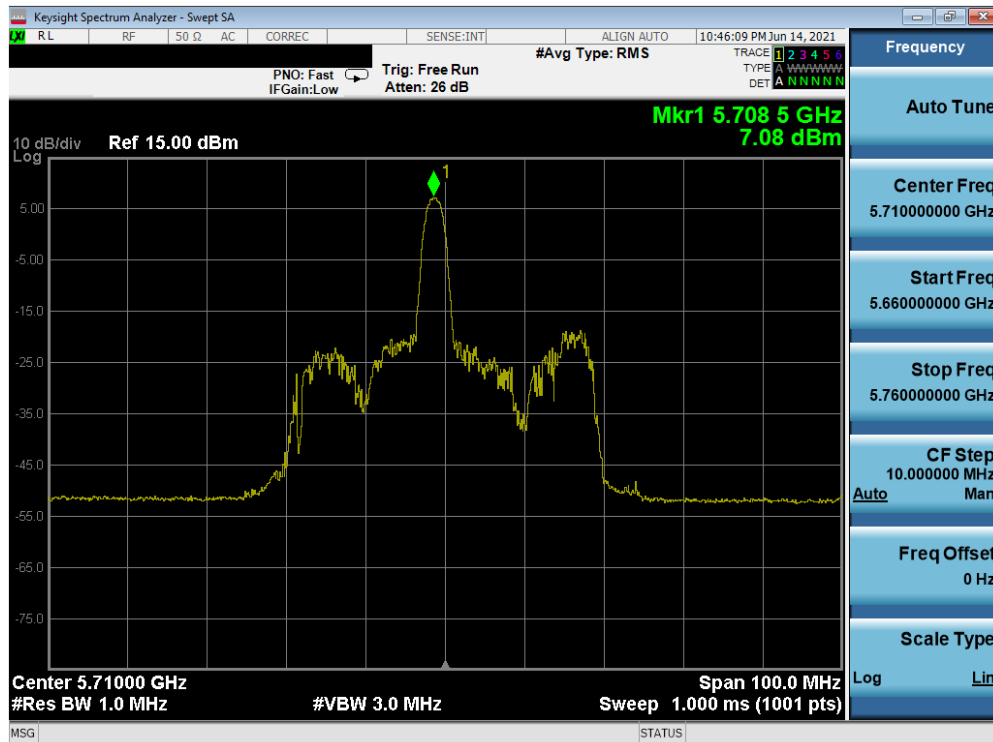


Plot 7-328. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 225 of 341

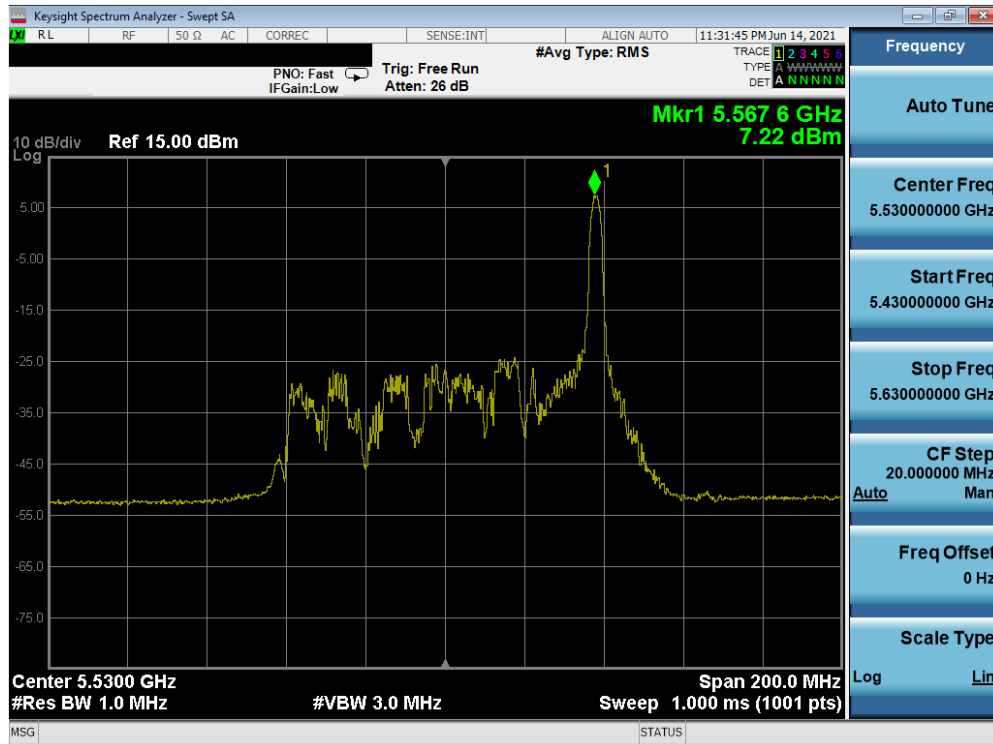


Plot 7-329. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)

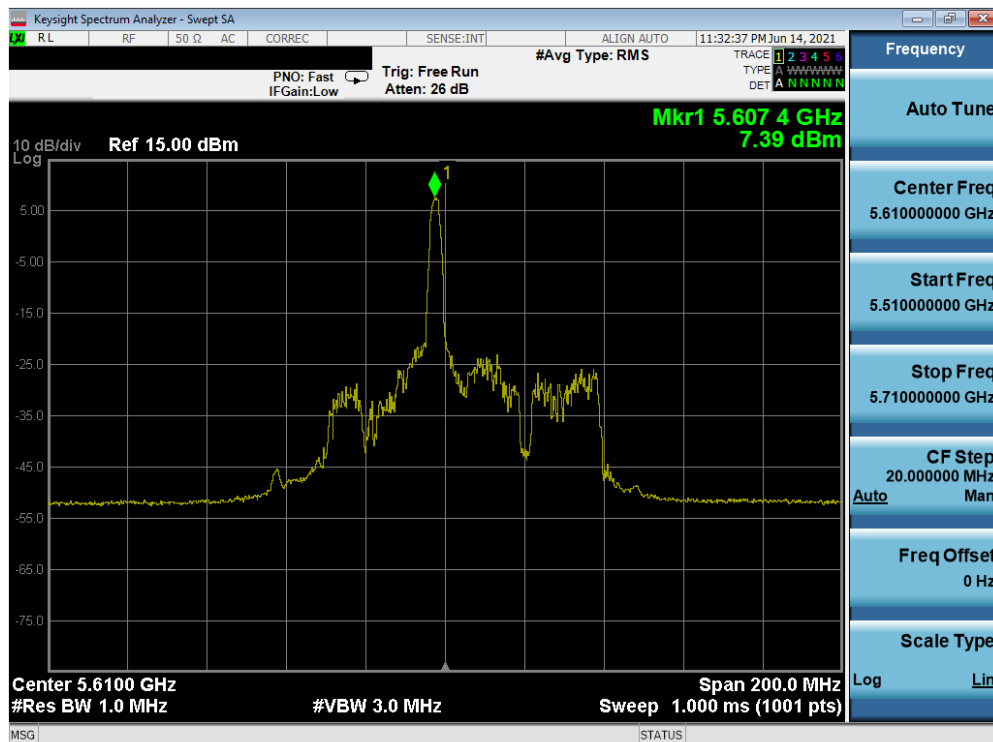


Plot 7-330. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 226 of 341

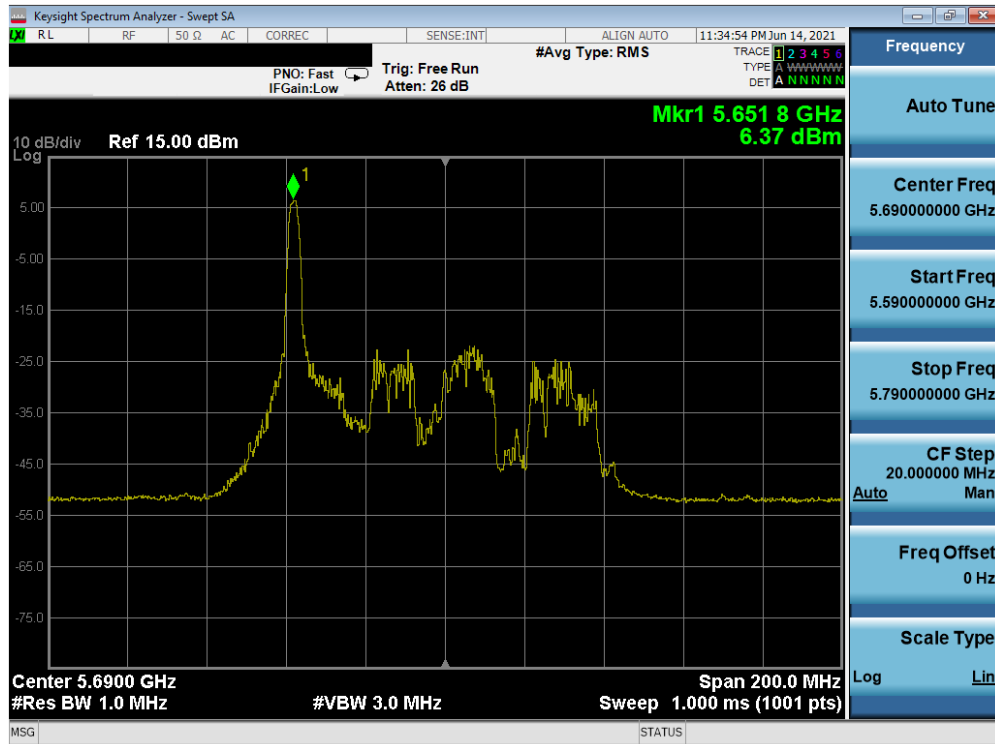


Plot 7-331. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

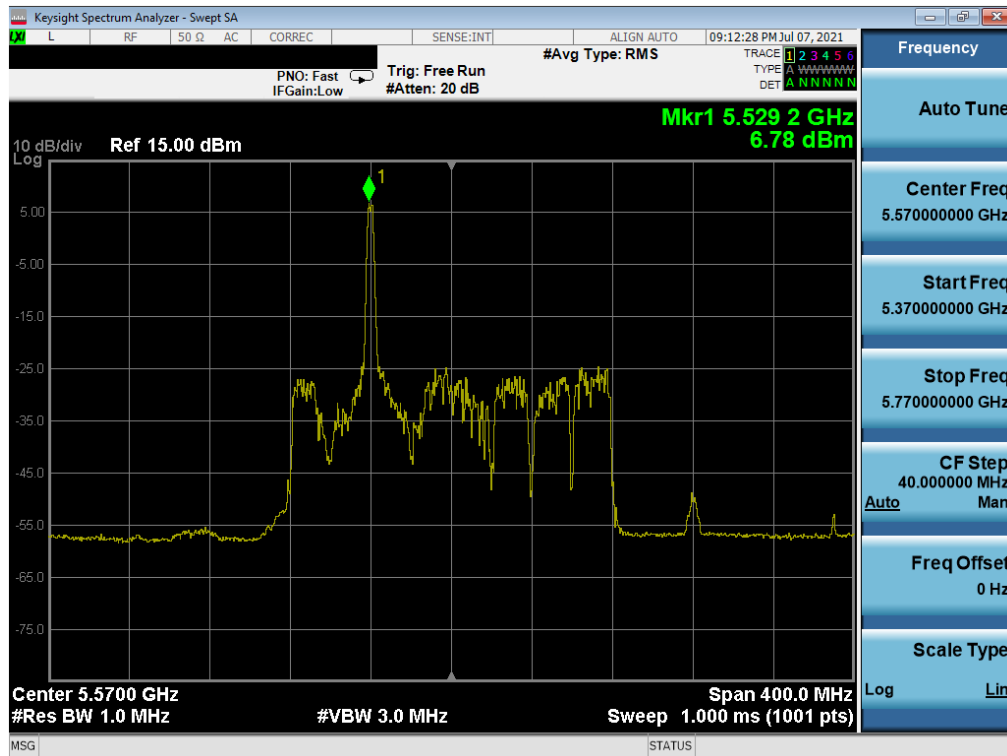


Plot 7-332. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 227 of 341

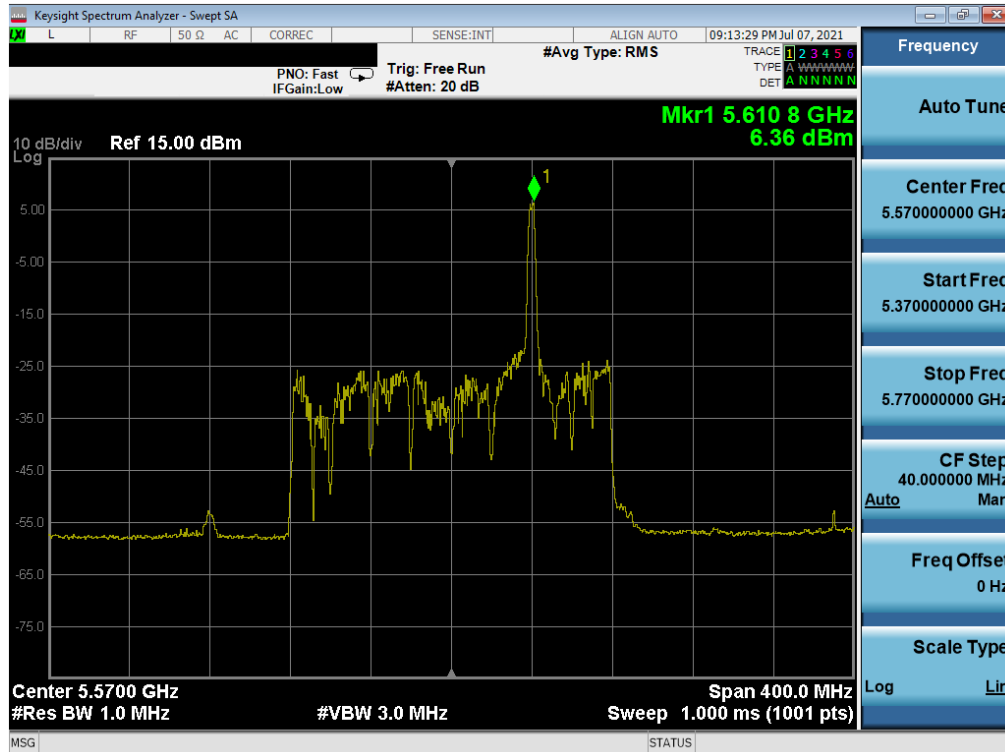


Plot 7-333. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)

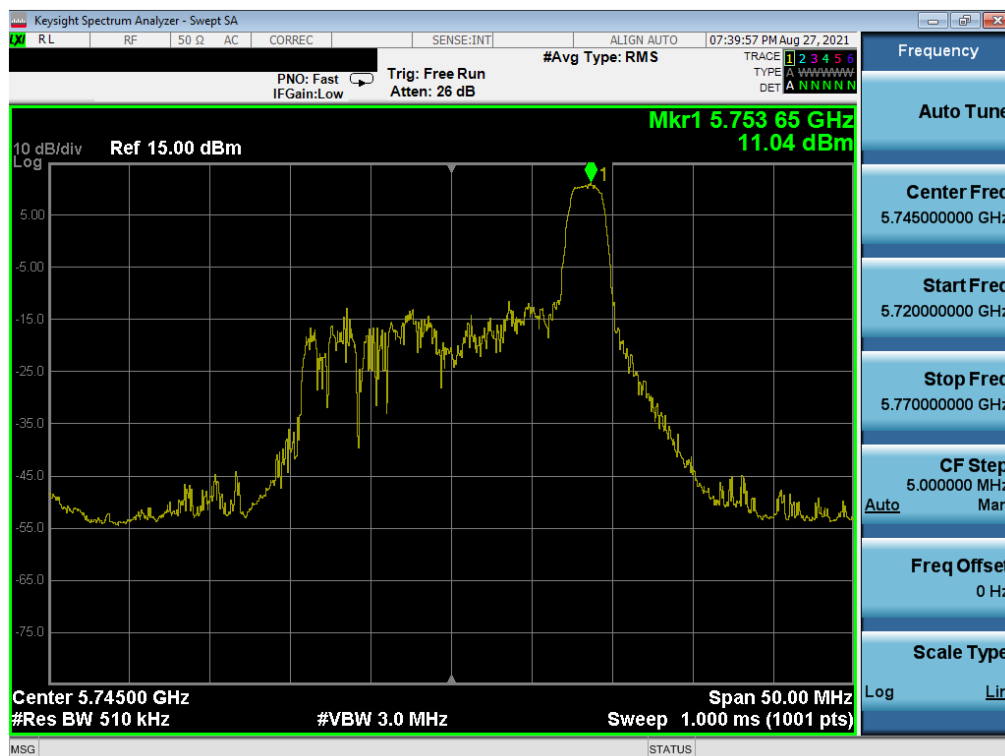


Plot 7-334. Power Spectral Density Plot MIMO NORTH (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 228 of 341

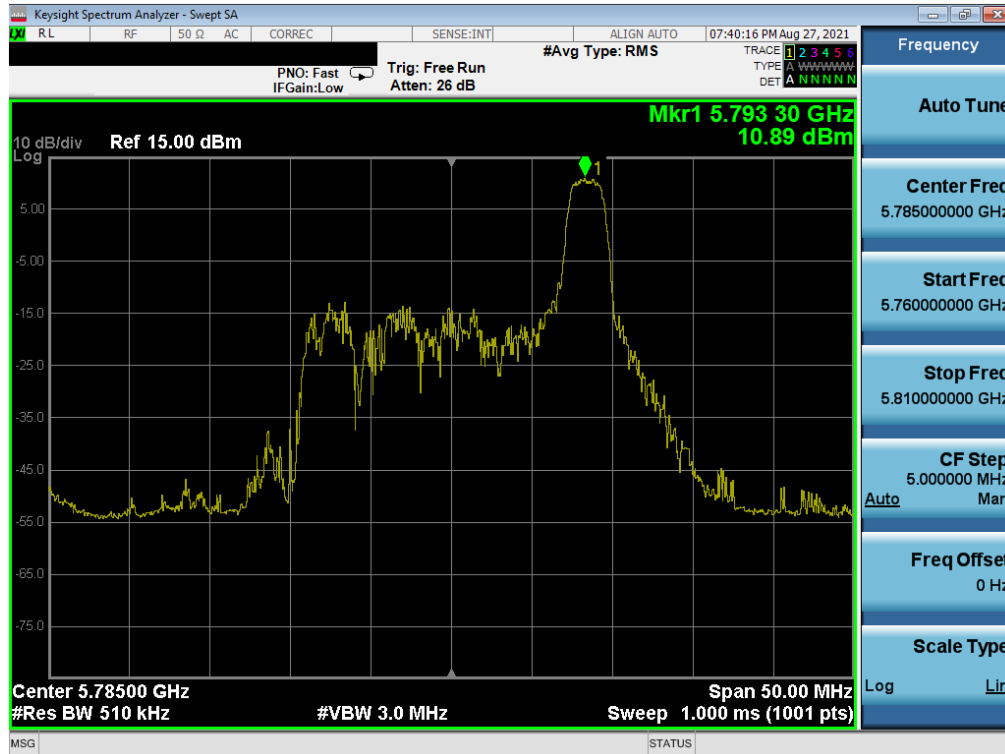


Plot 7-335. Power Spectral Density Plot MIMO NORTH (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

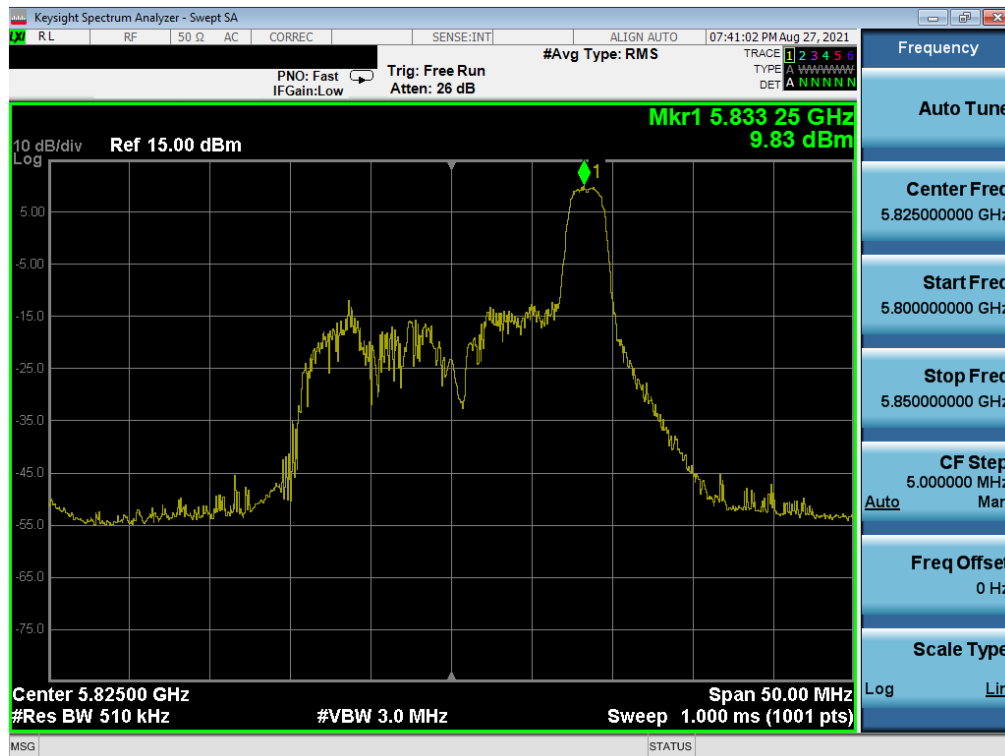


Plot 7-336. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 229 of 341

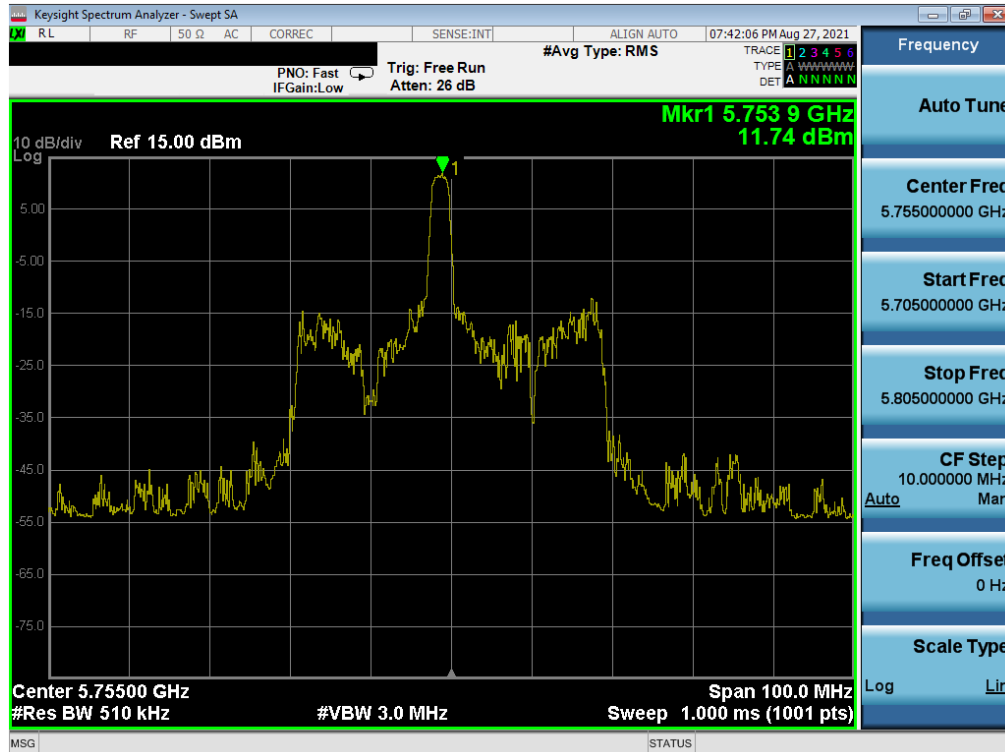


Plot 7-337. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

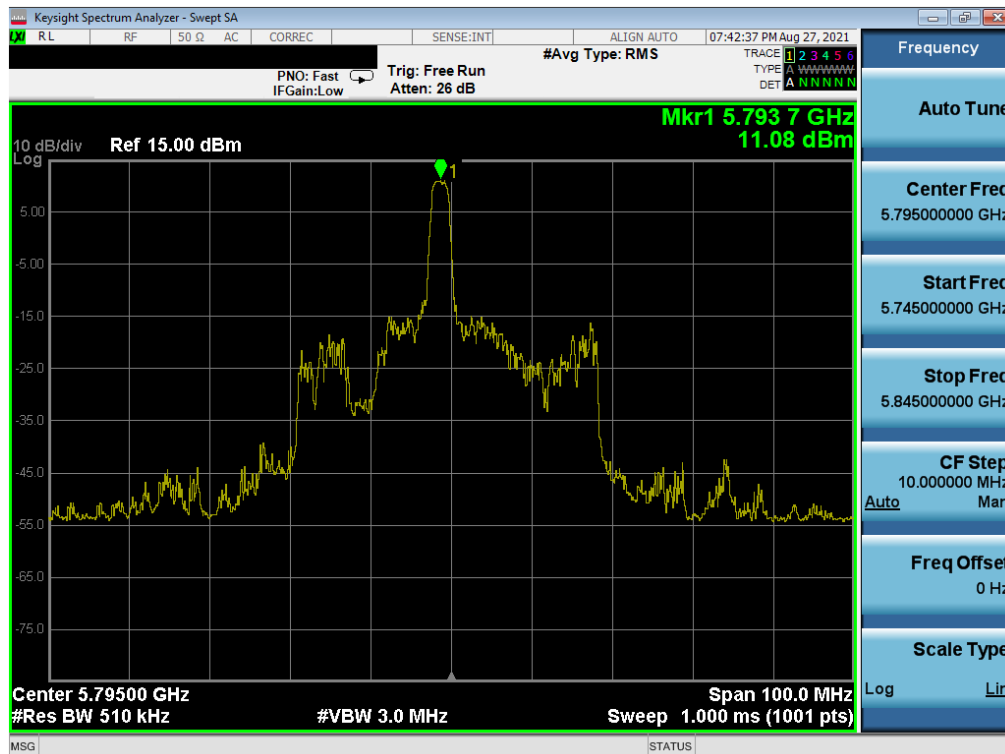


Plot 7-338. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 230 of 341



Plot 7-339. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

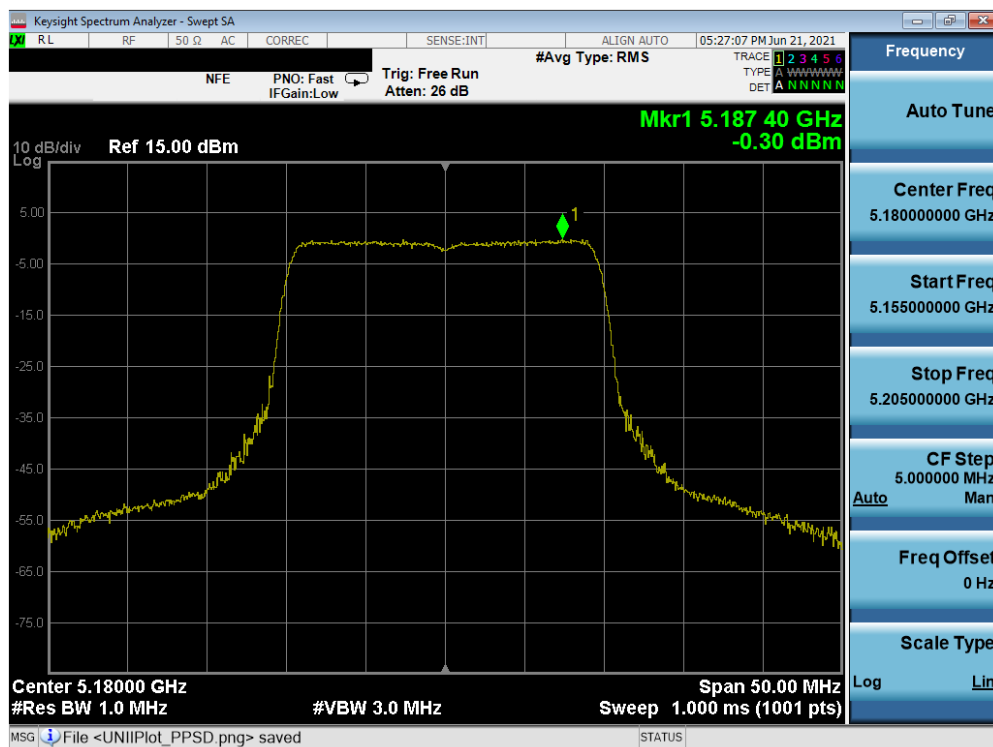


Plot 7-340. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 231 of 341

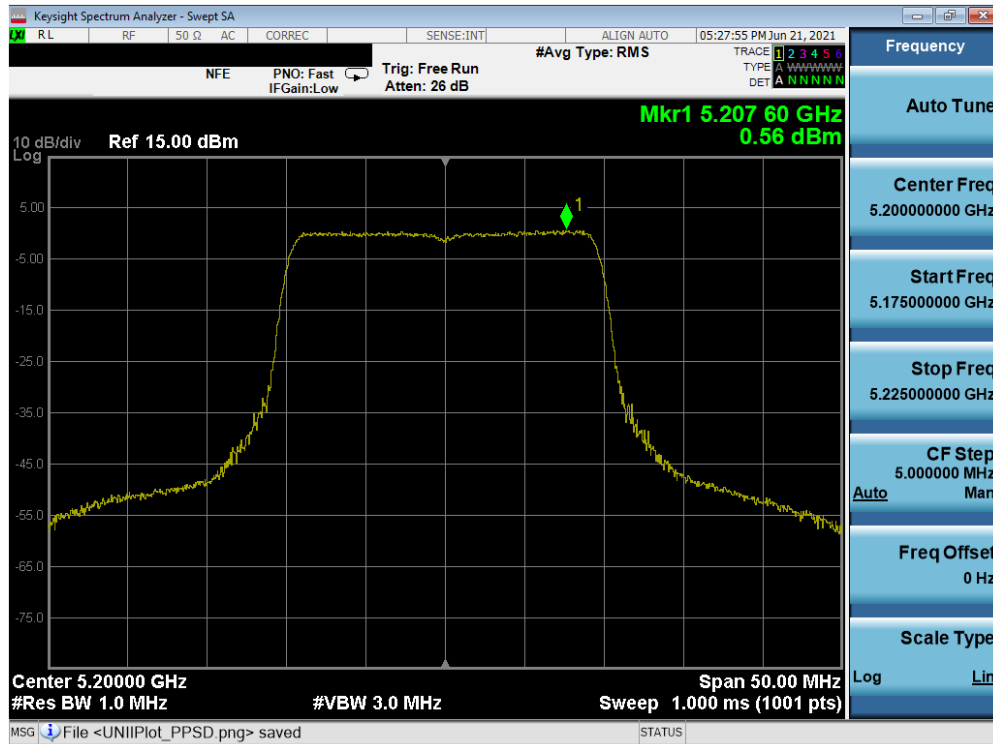


Plot 7-341. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

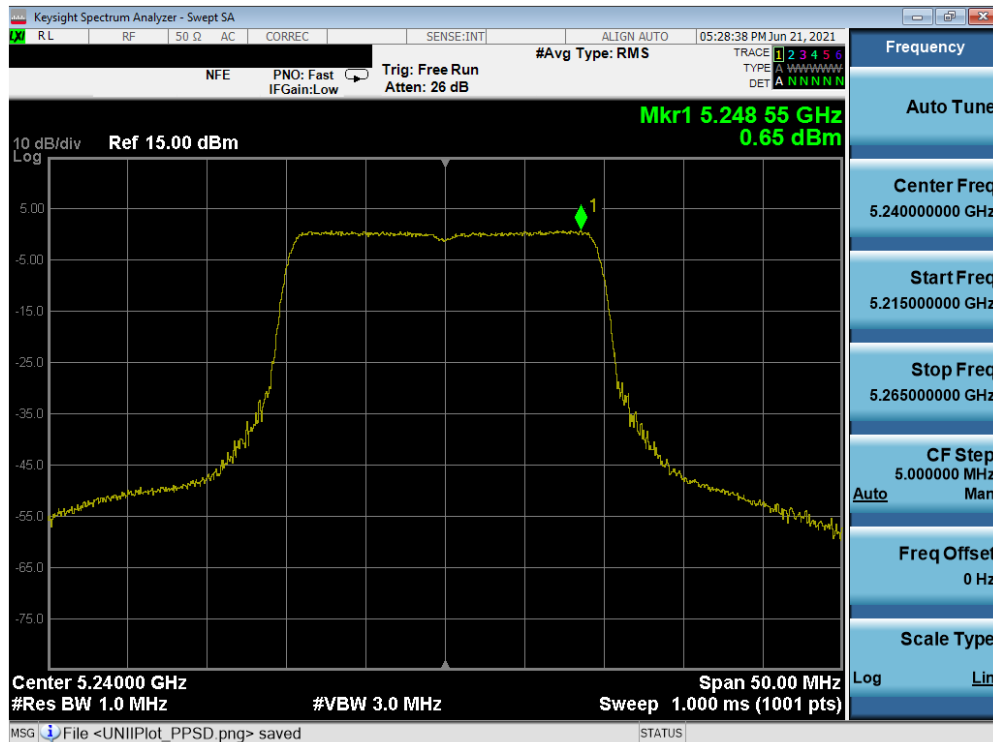


Plot 7-342. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 232 of 341

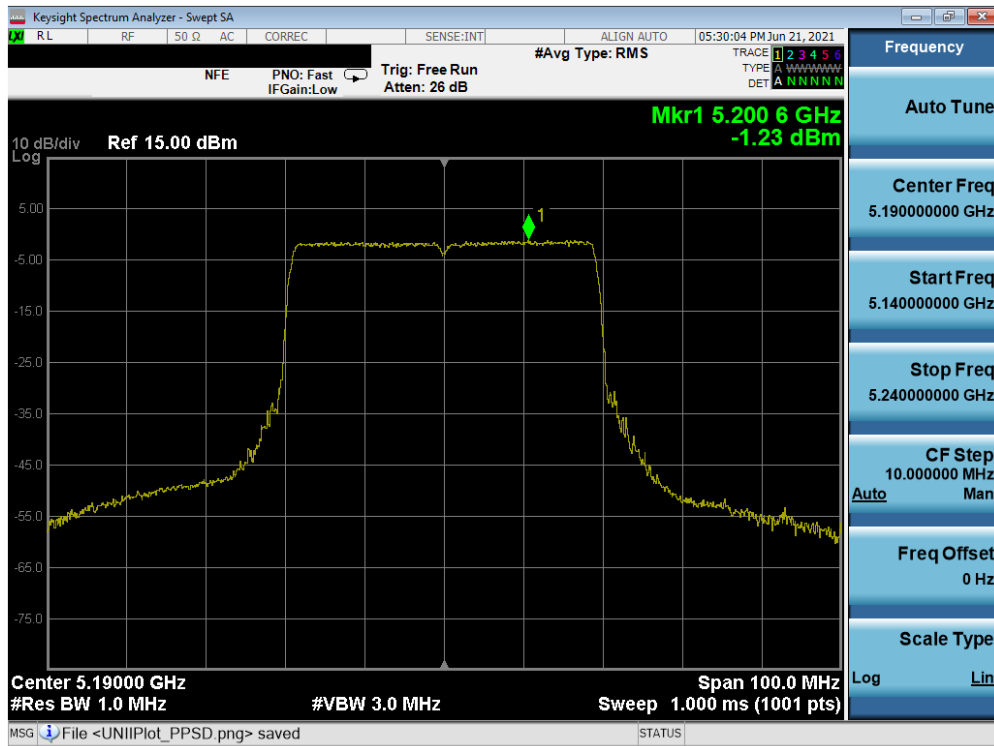


Plot 7-343. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

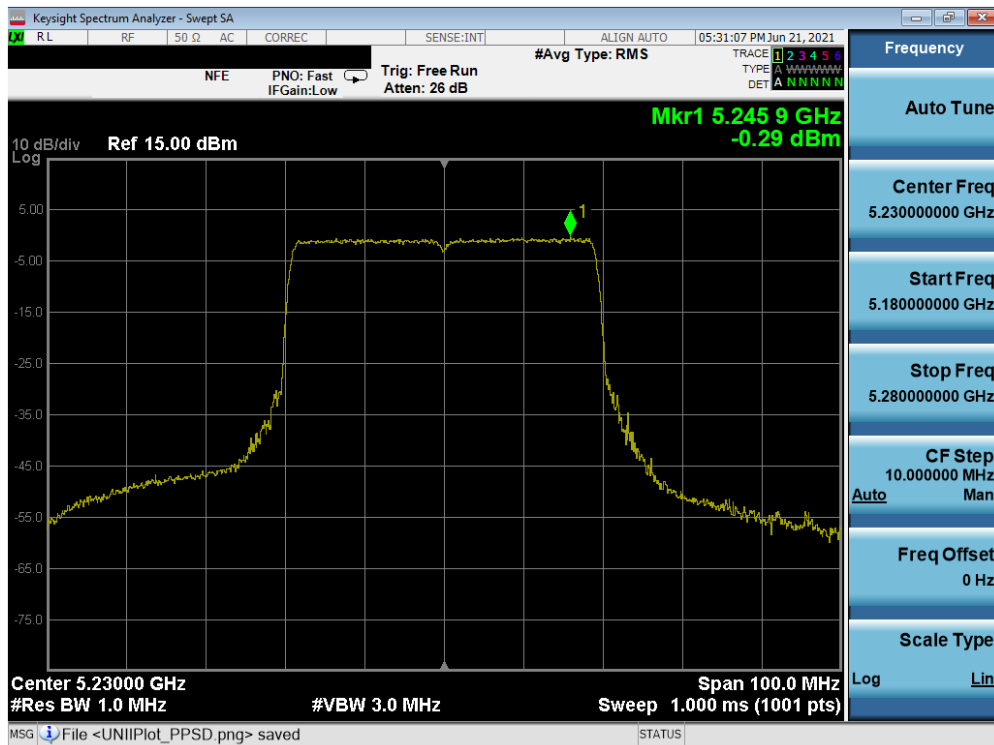


Plot 7-344. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 233 of 341

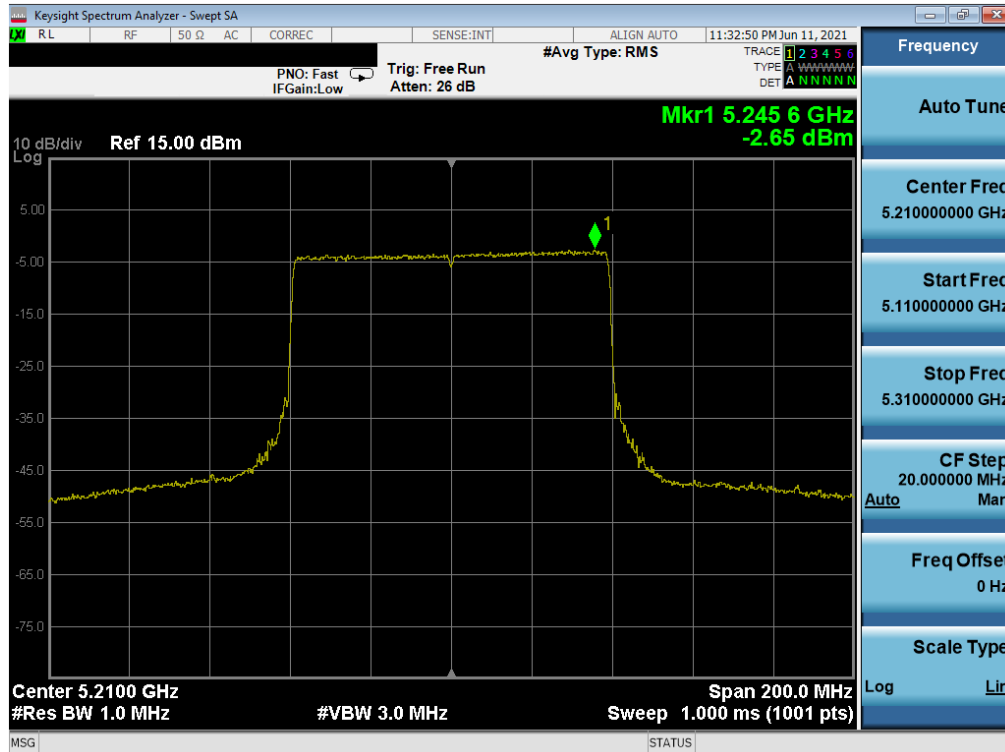


Plot 7-345. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

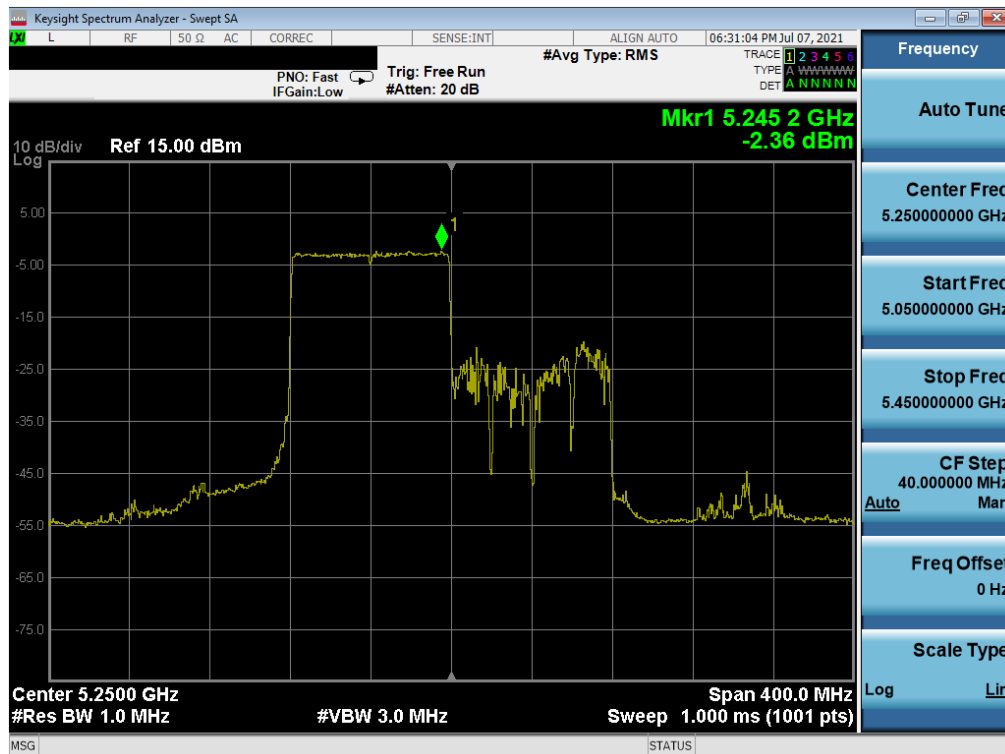


Plot 7-346. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 234 of 341

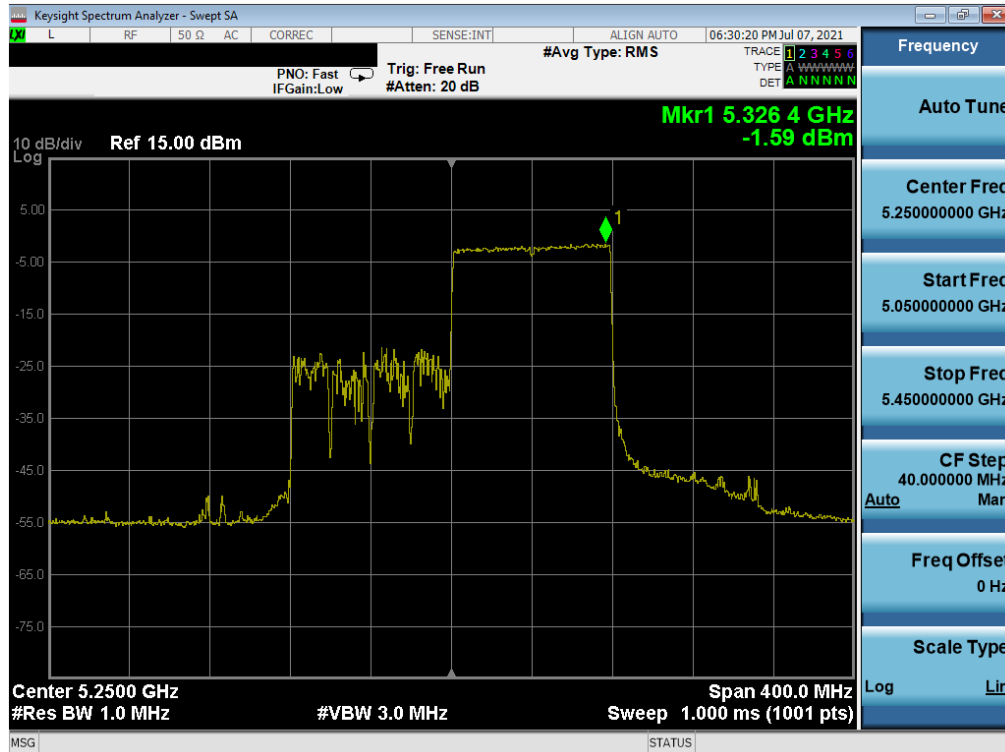


Plot 7-347. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

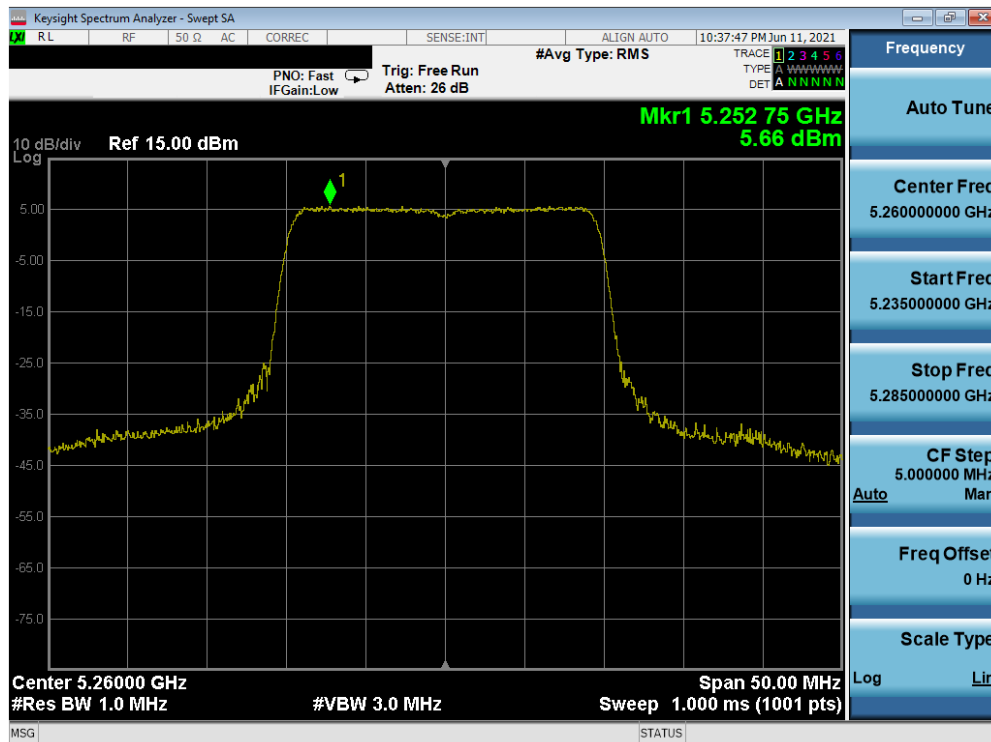


Plot 7-348. Power Spectral Density Plot MIMO NORTH (160MHz BW (U) 802.11ax – Full Tones (UNII Band 1) – Ch. 50)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 235 of 341

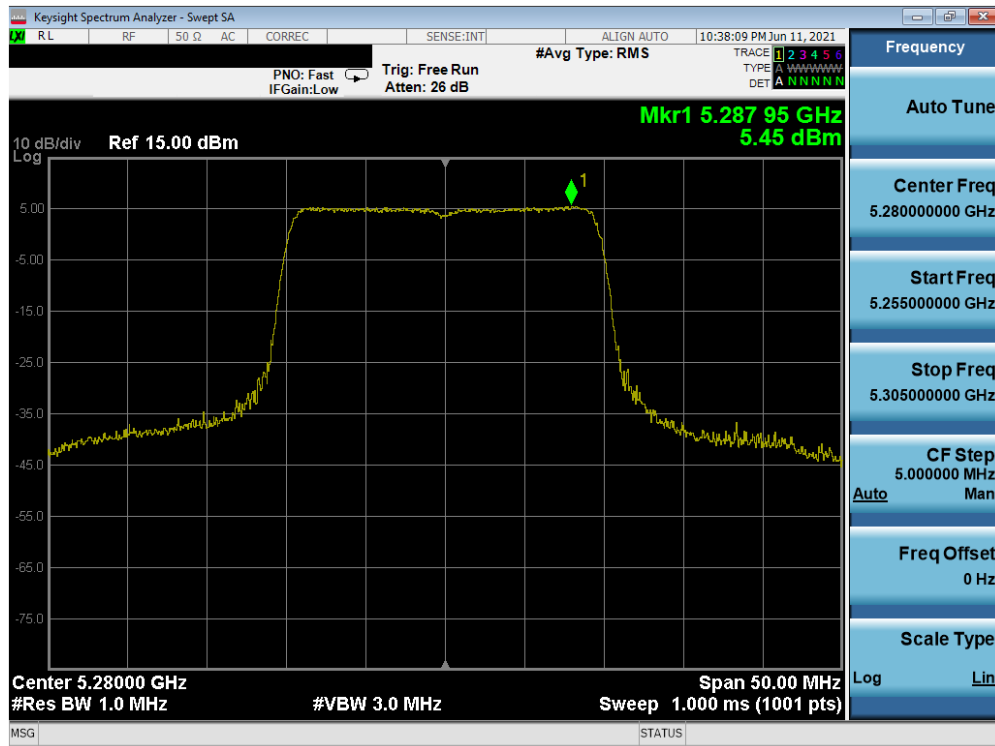


Plot 7-349. Power Spectral Density Plot MIMO NORTH (160MHz BW (L) 802.11ax – Full Tones (UNII Band 2A) – Ch. 50)

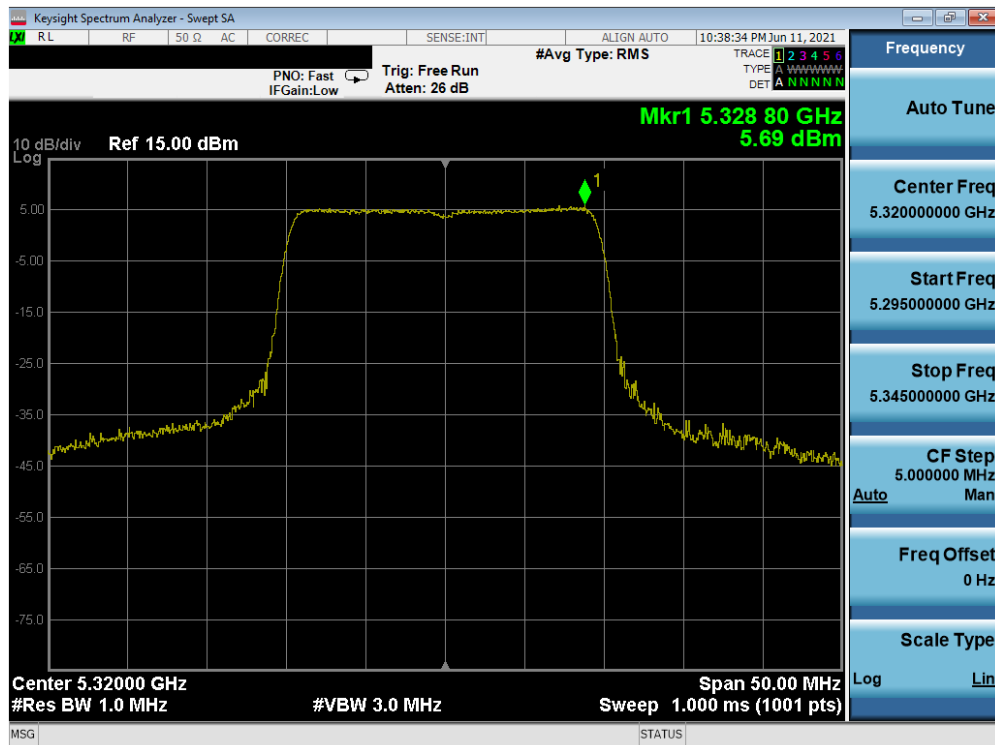


Plot 7-350. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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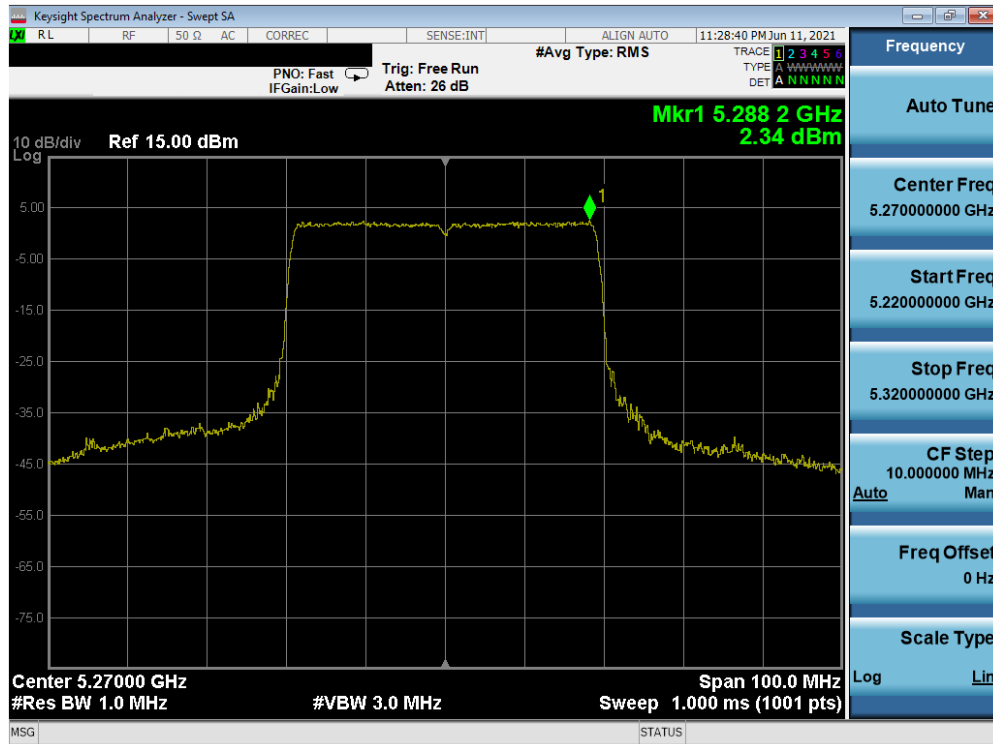


Plot 7-351. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

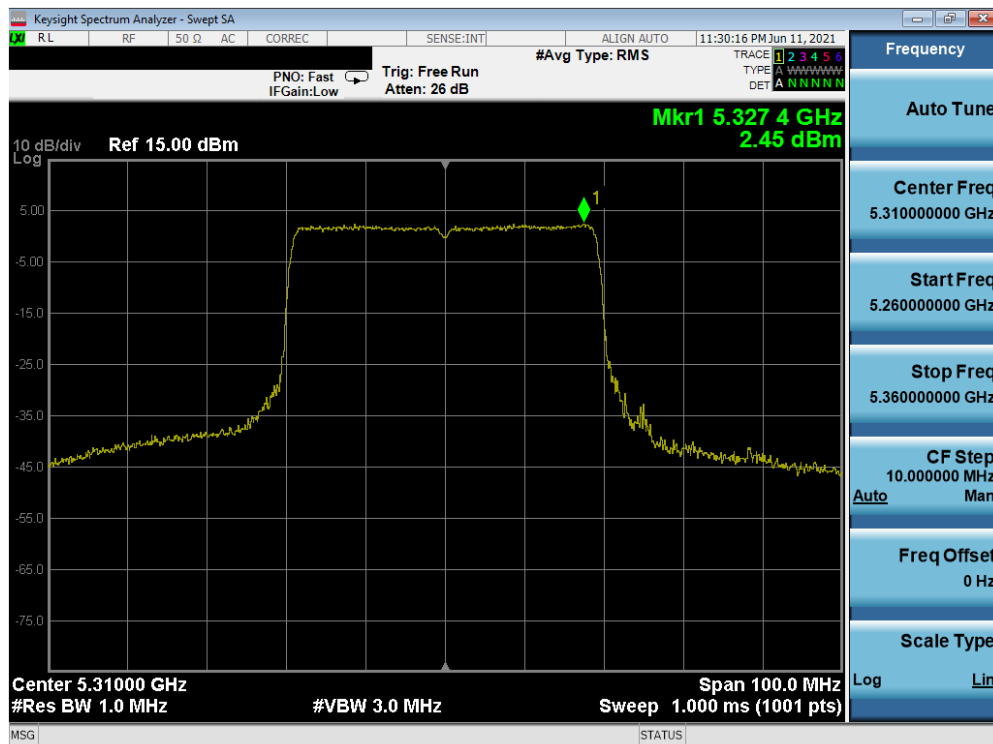


Plot 7-352. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 237 of 341

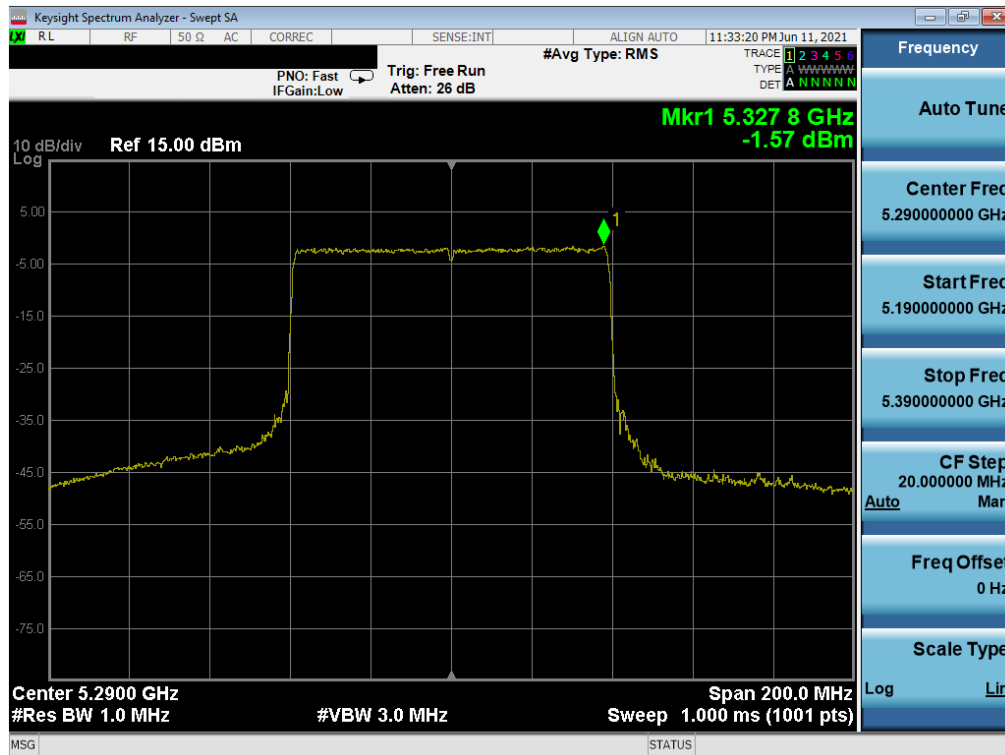


Plot 7-353. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

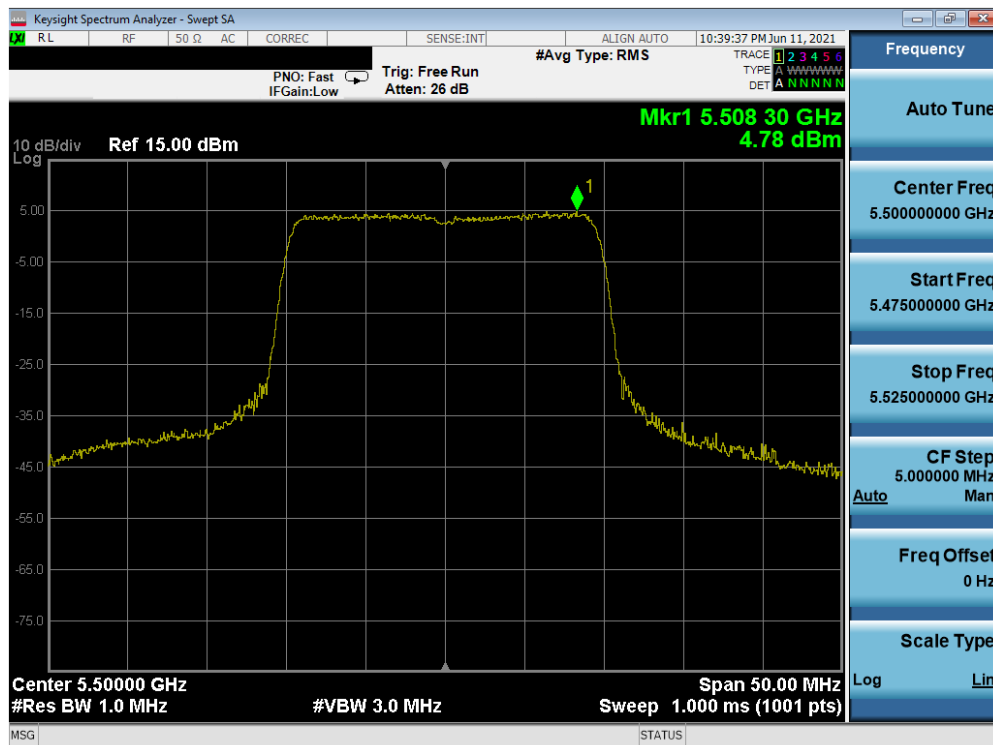


Plot 7-354. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 238 of 341

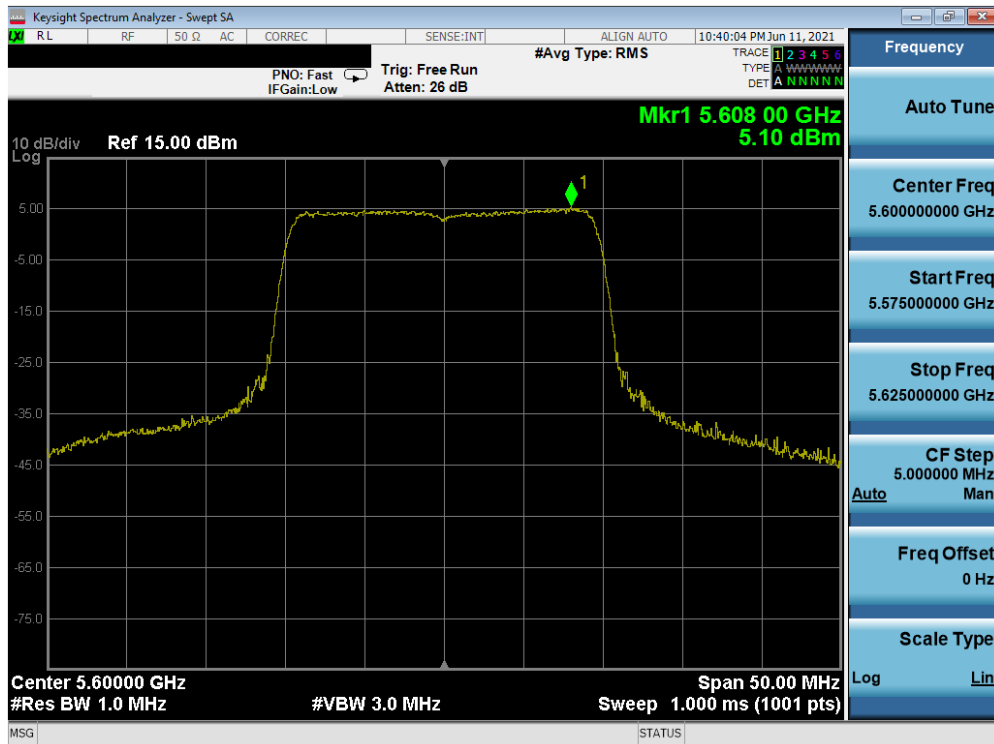


Plot 7-355. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

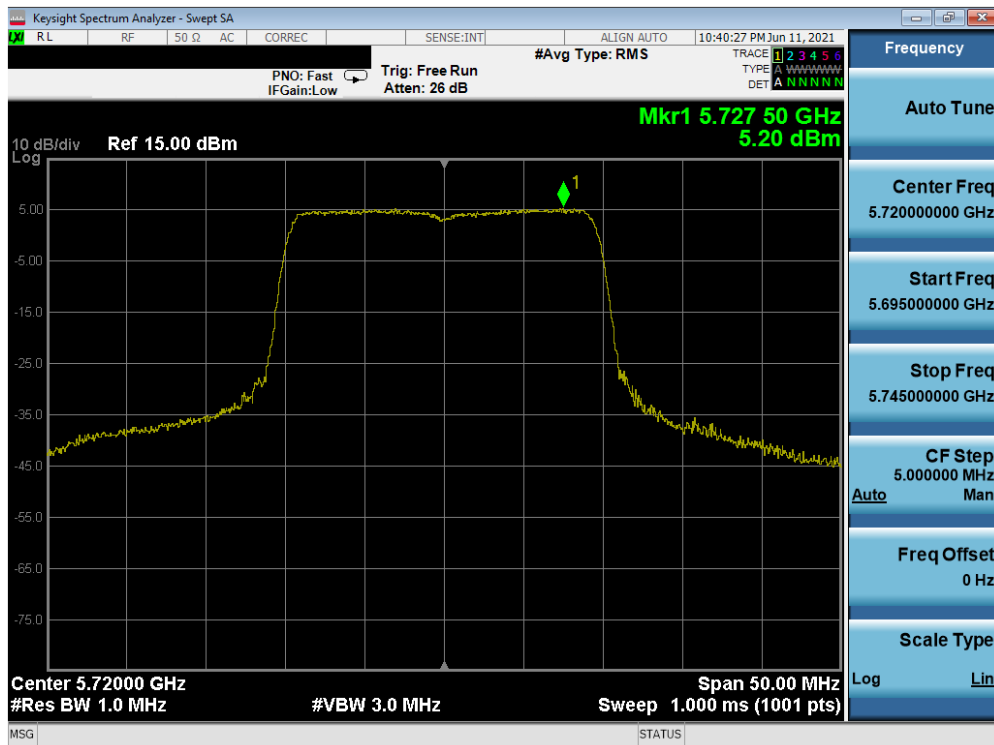


Plot 7-356. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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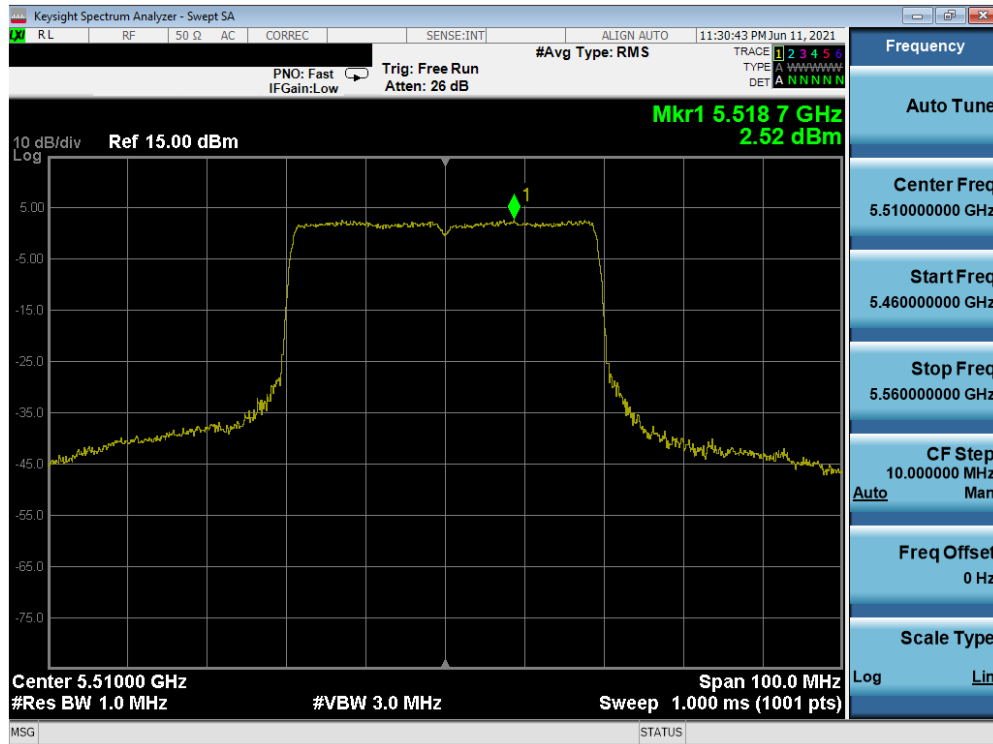


Plot 7-357. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

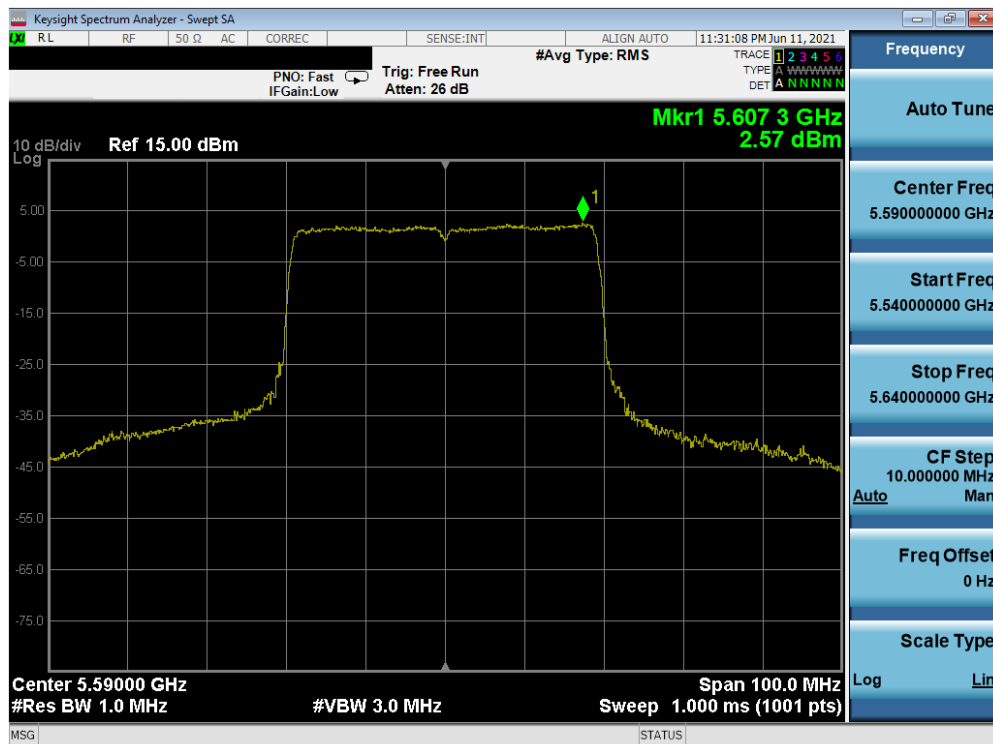


Plot 7-358. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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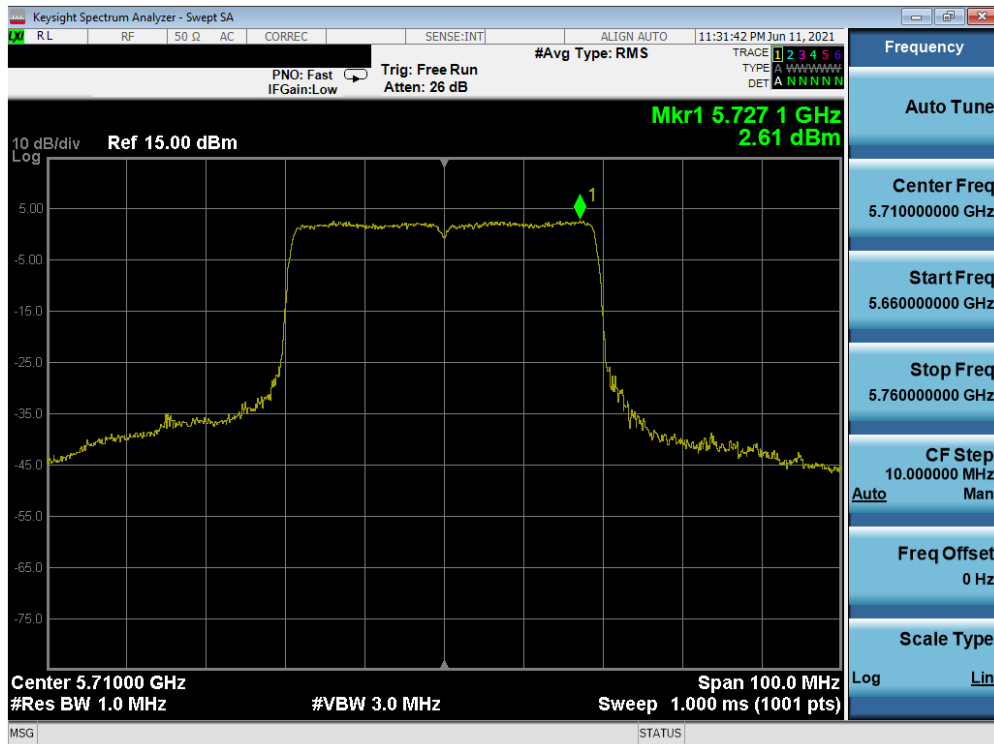


Plot 7-359. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

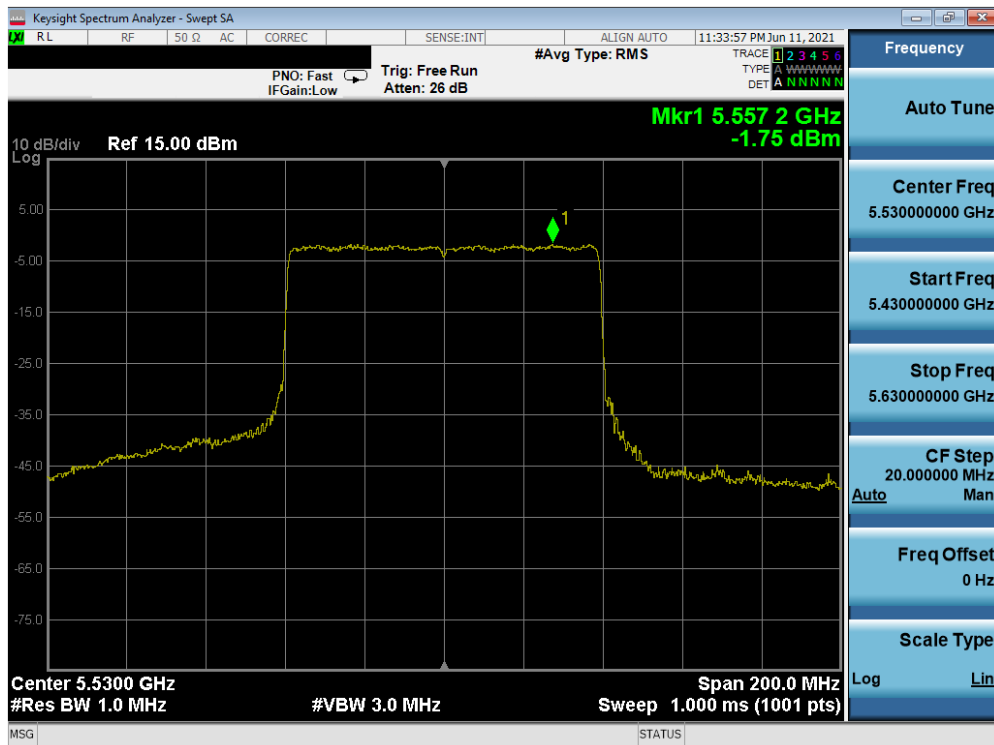


Plot 7-360. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 241 of 341

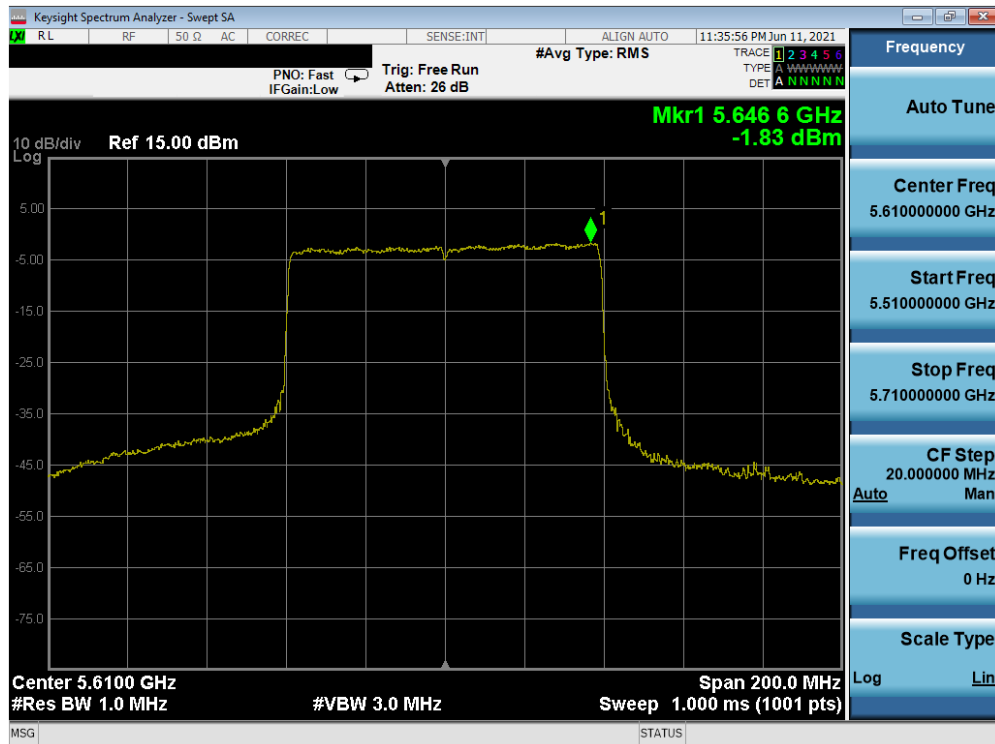


Plot 7-361. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

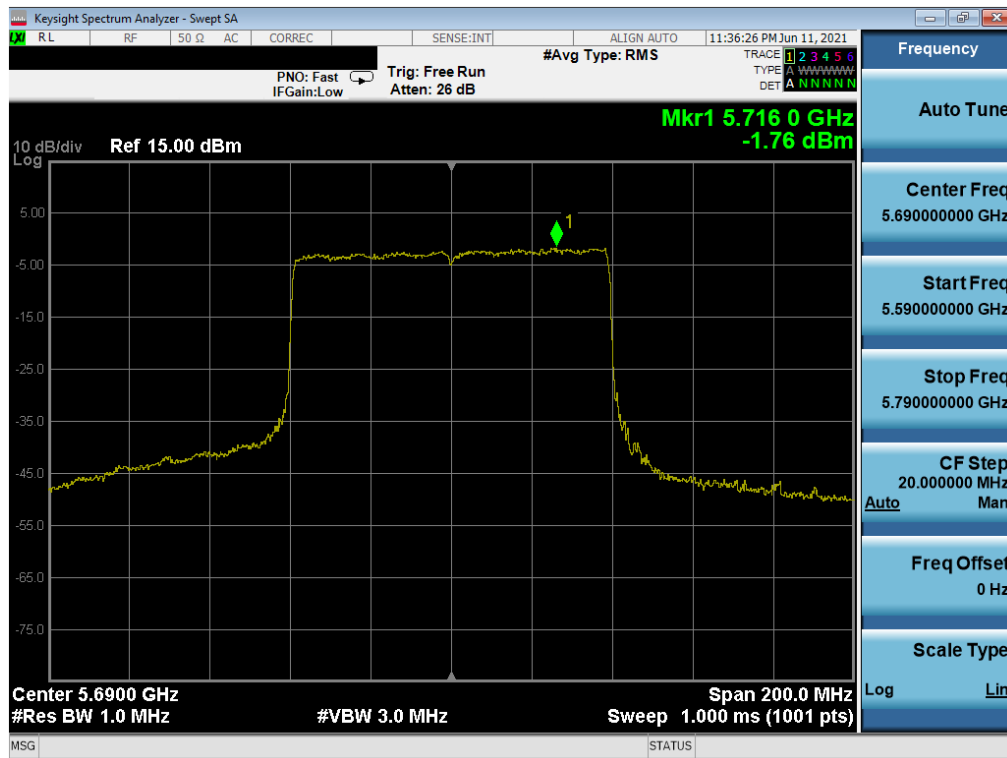


Plot 7-362. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 242 of 341

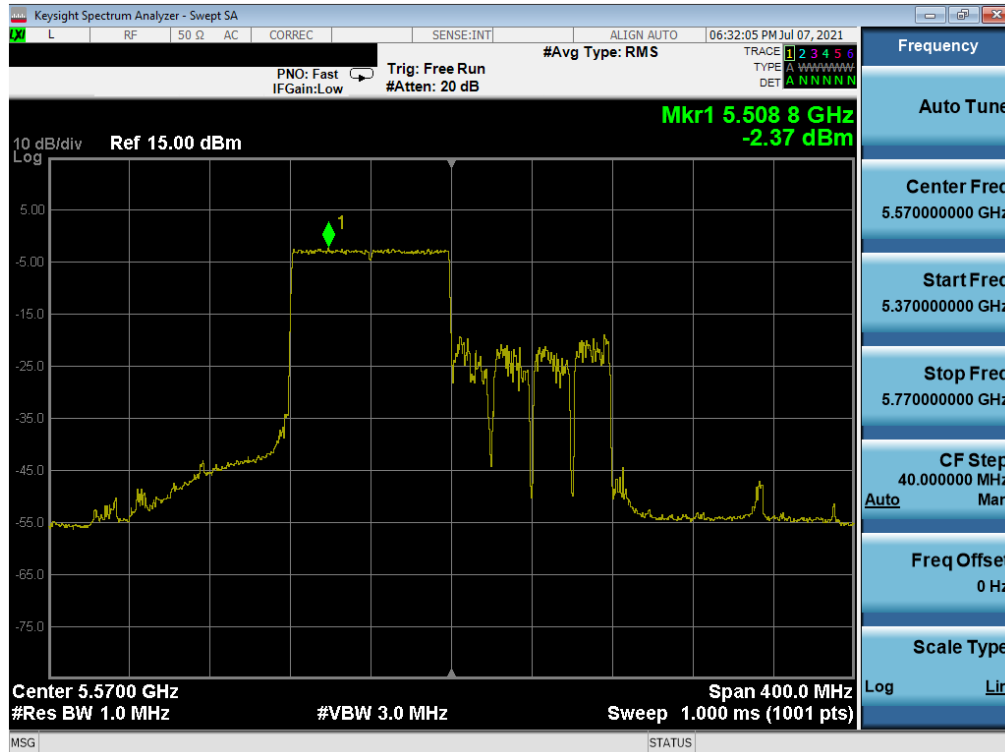


Plot 7-363. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

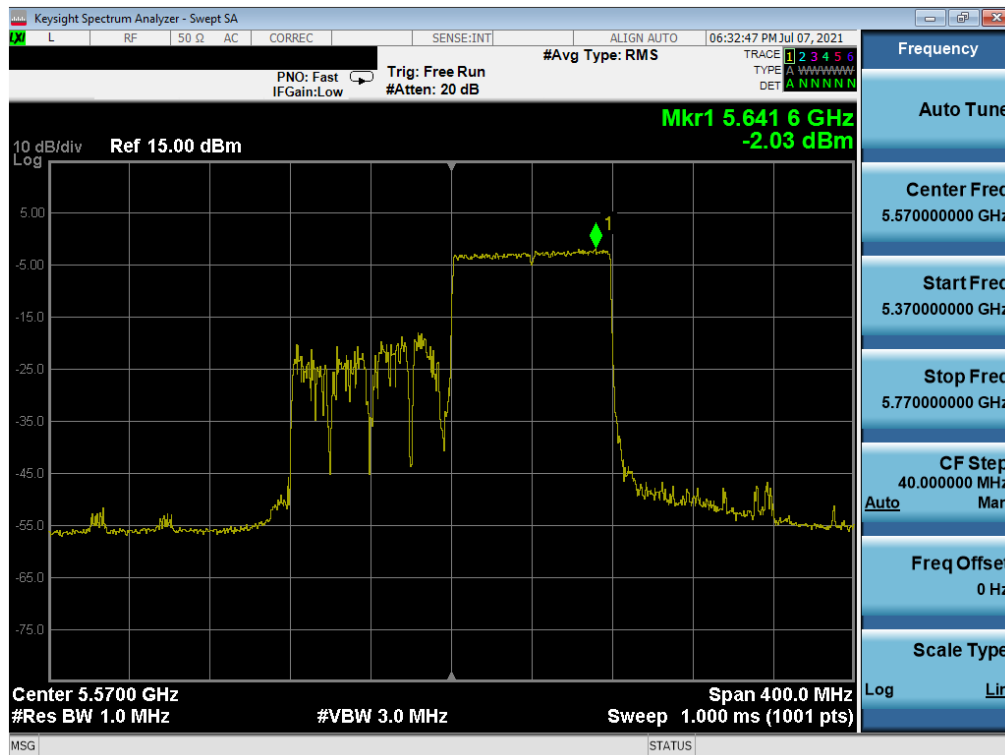


Plot 7-364. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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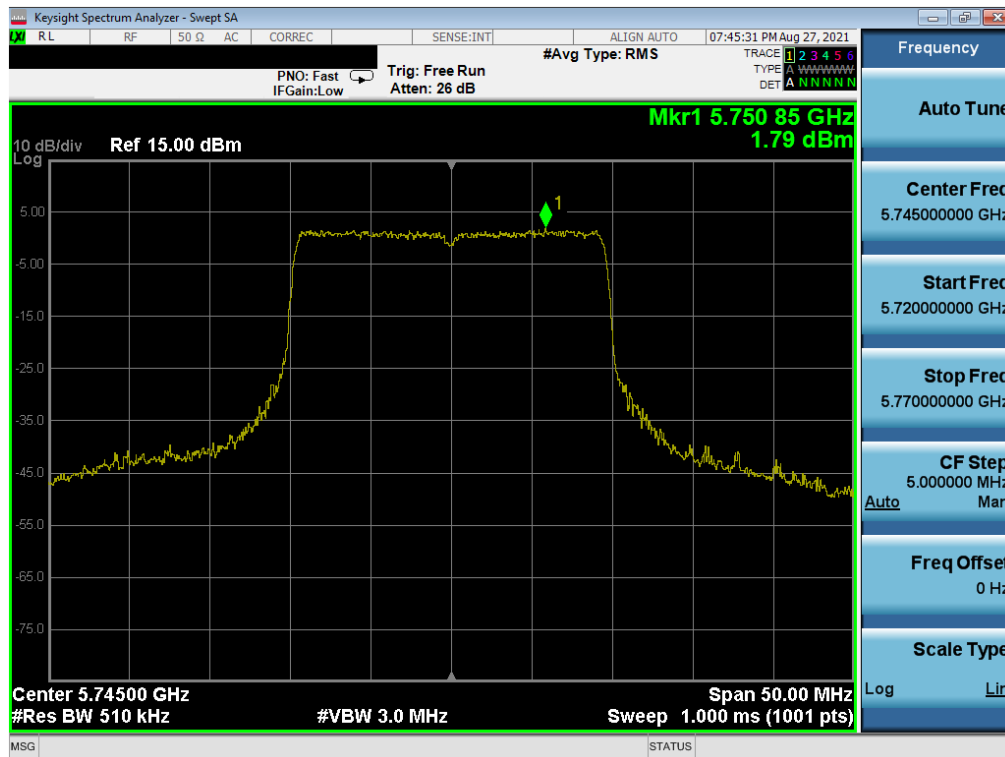


Plot 7-365. Power Spectral Density Plot MIMO NORTH (160MHz BW (L) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

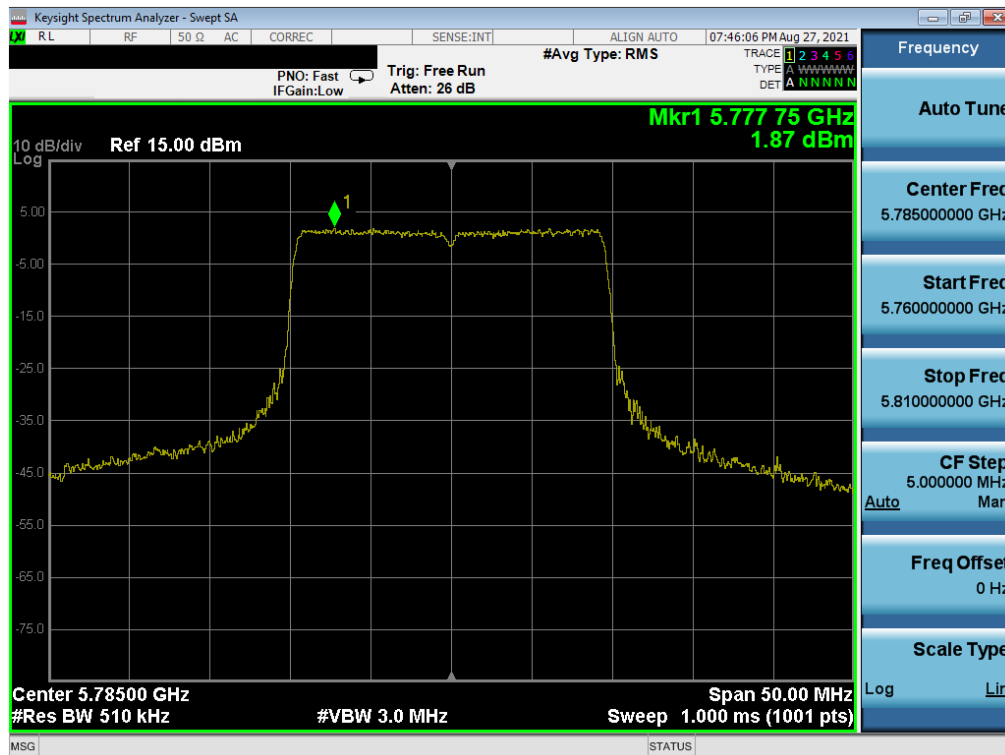


Plot 7-366. Power Spectral Density Plot MIMO NORTH (160MHz BW (U) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-15-R1.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 244 of 341

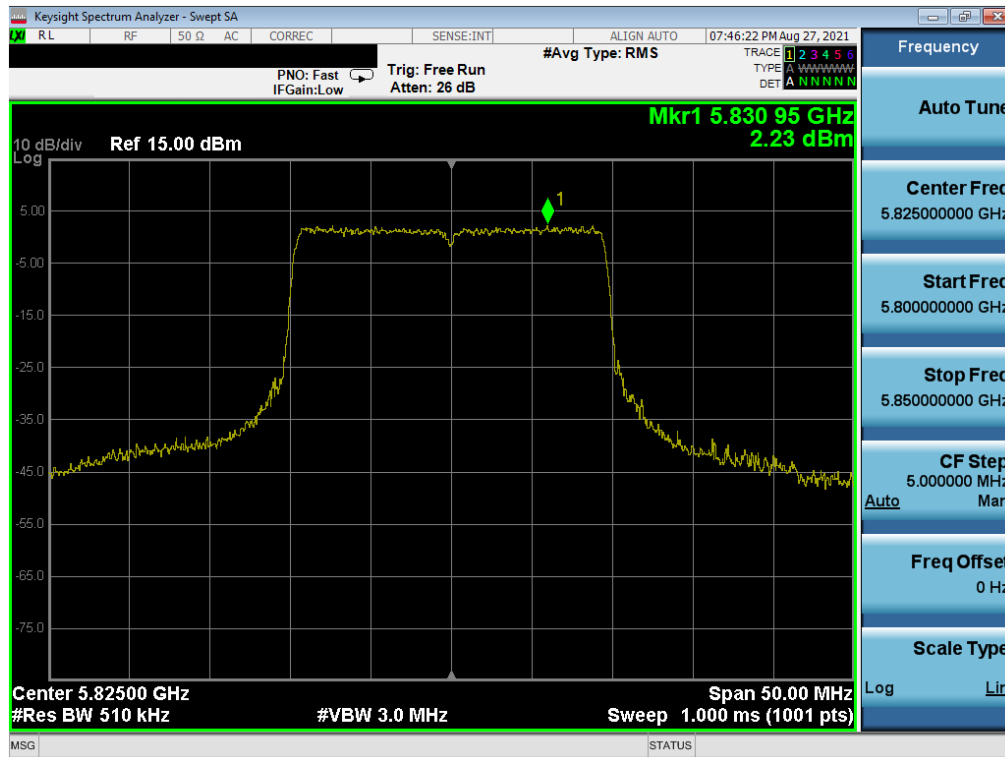


Plot 7-367. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

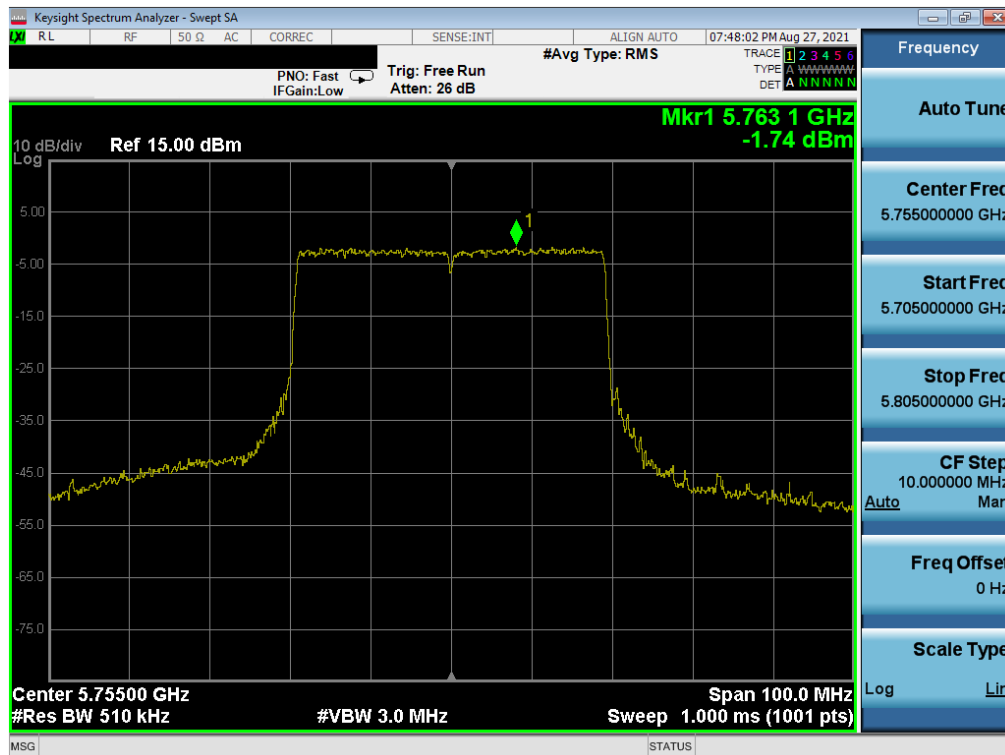


Plot 7-368. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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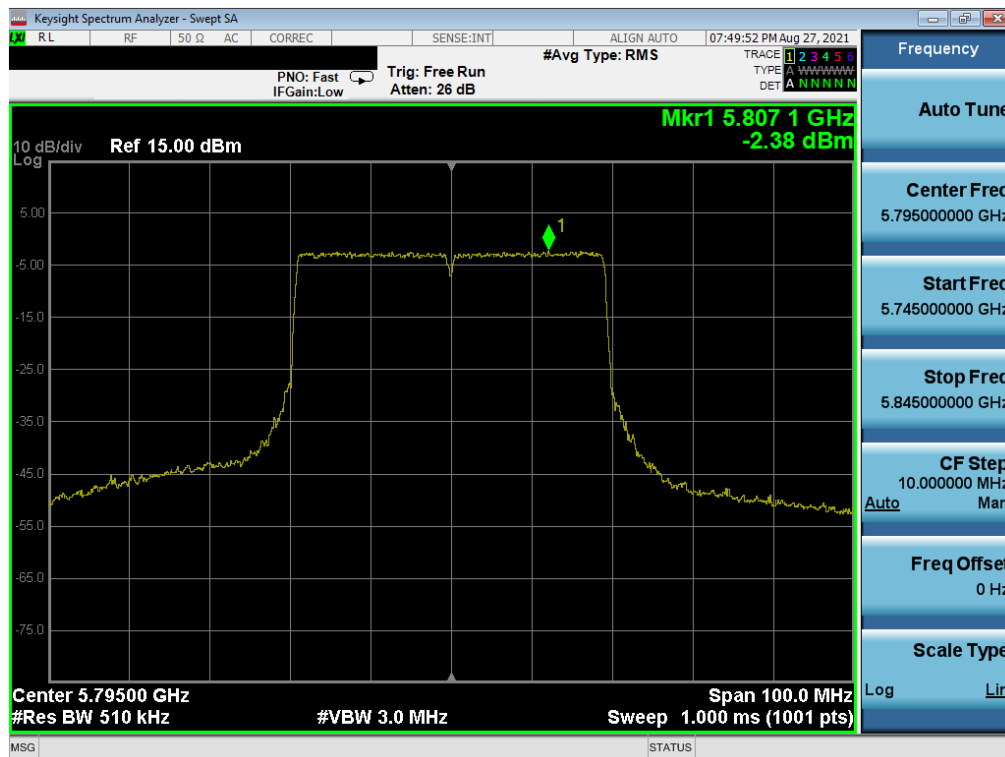


Plot 7-369. Power Spectral Density Plot MIMO NORTH (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

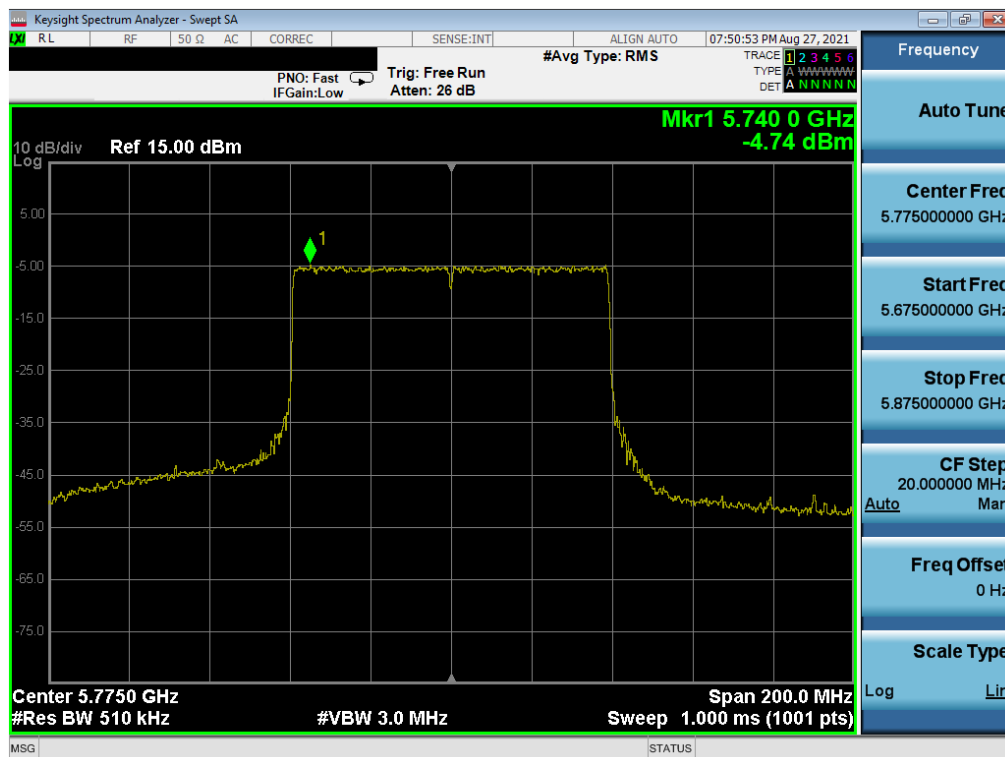


Plot 7-370. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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Plot 7-371. Power Spectral Density Plot MIMO NORTH (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-372. Power Spectral Density Plot MIMO NORTH (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-109 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-109. Radiated Limits

Test Procedures Used

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

Test Settings

Average Measurements above 1GHz (Method AD)

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

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Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

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

Test Setup

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

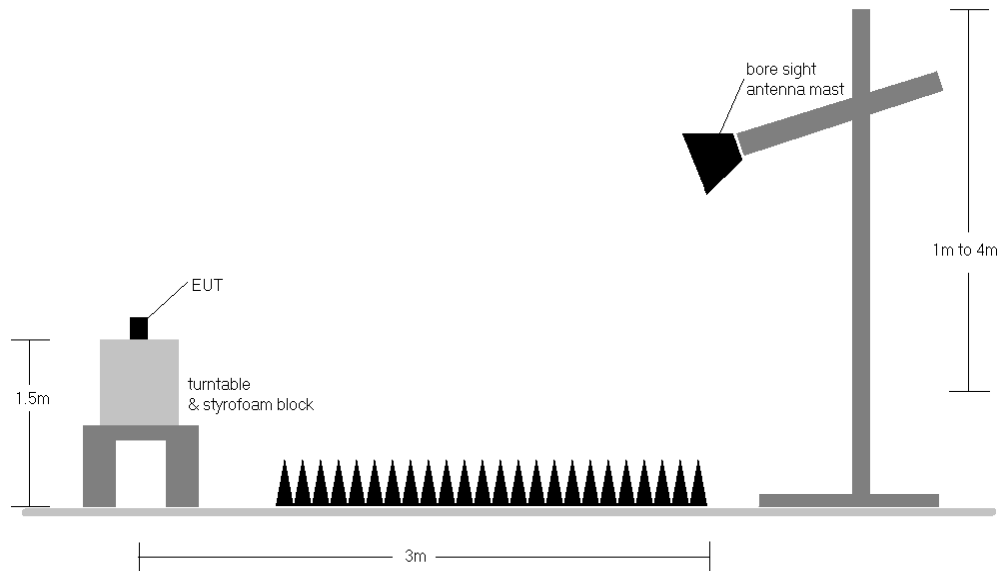


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Microsoft	Approved by: Technical Manager
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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-109.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-109. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

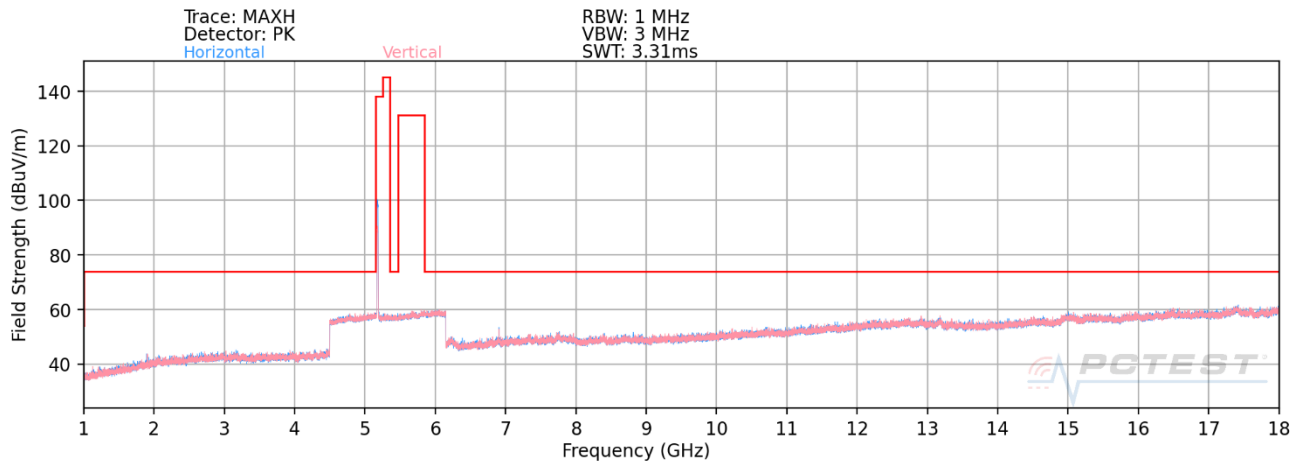
- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

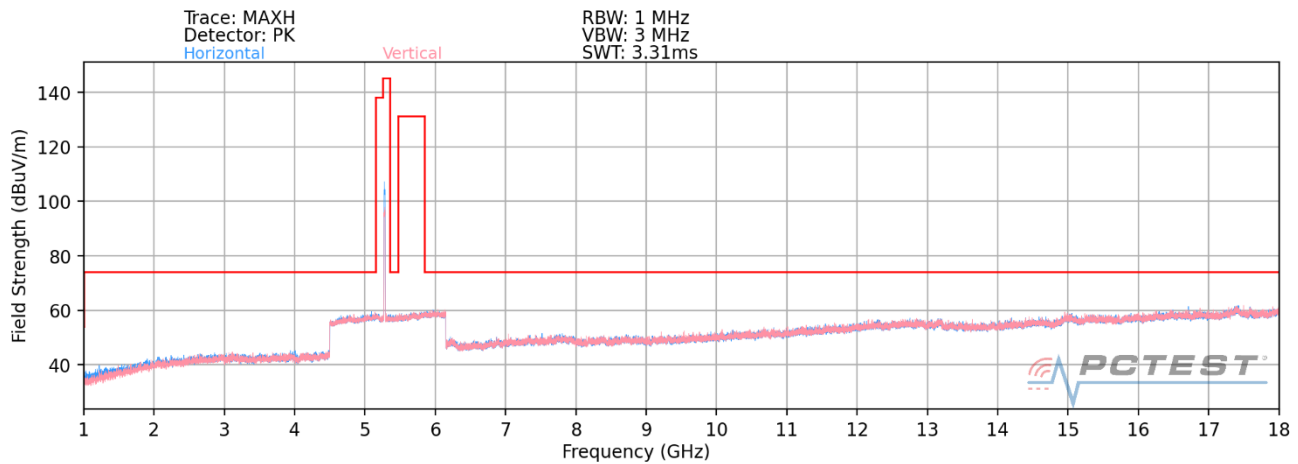
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7.6.1 SISO SOUTH Radiated Spurious Emission Measurements

26 Tones



Plot 7-373. Radiated Spurious Plot above 1GHz SISO SOUTH (802.11ax – U1 Ch. 40 – 26 Tones) Closed



Plot 7-374. Radiated Spurious Plot above 1GHz SISO SOUTH (802.11ax – U2A Ch. 56 – 26 Tones) Closed

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