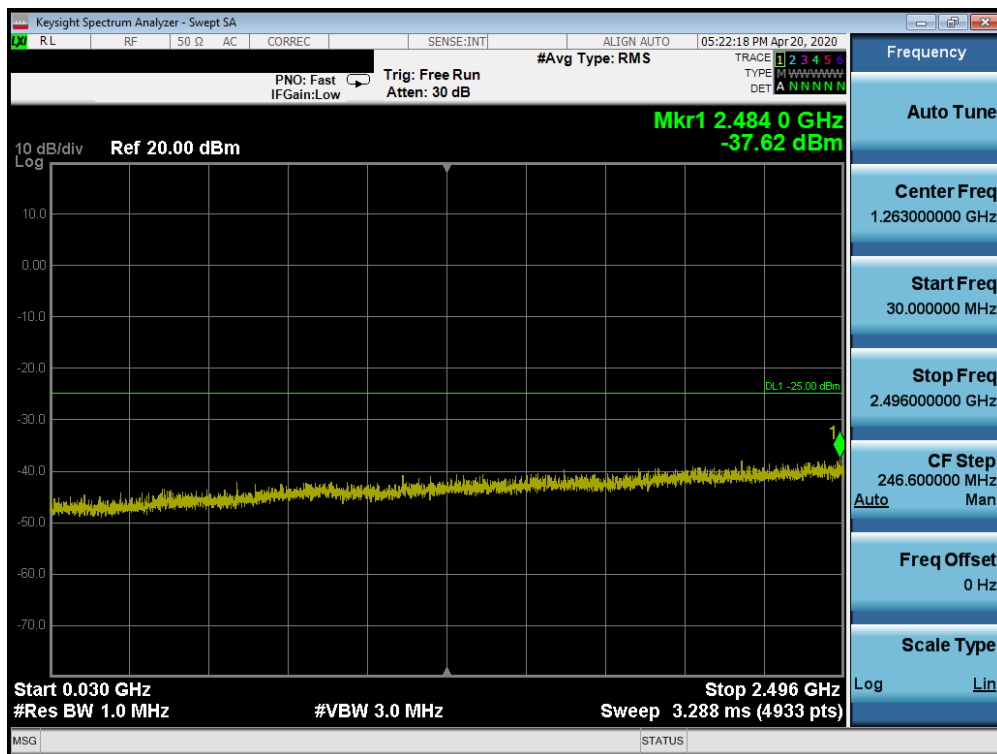
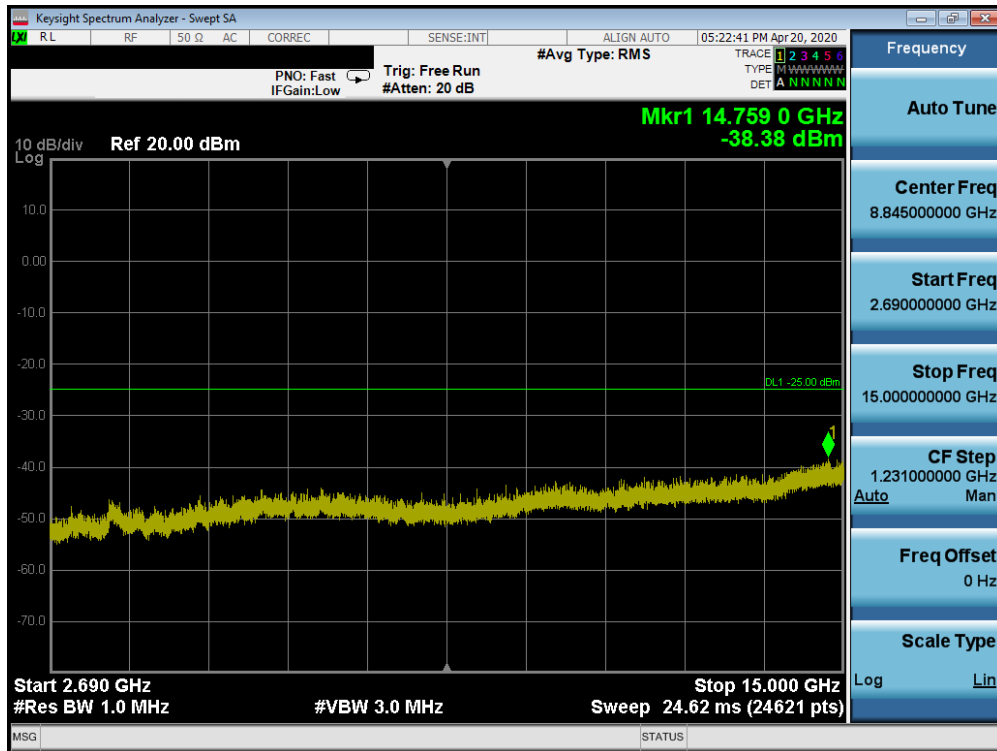


Plot 7-291. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

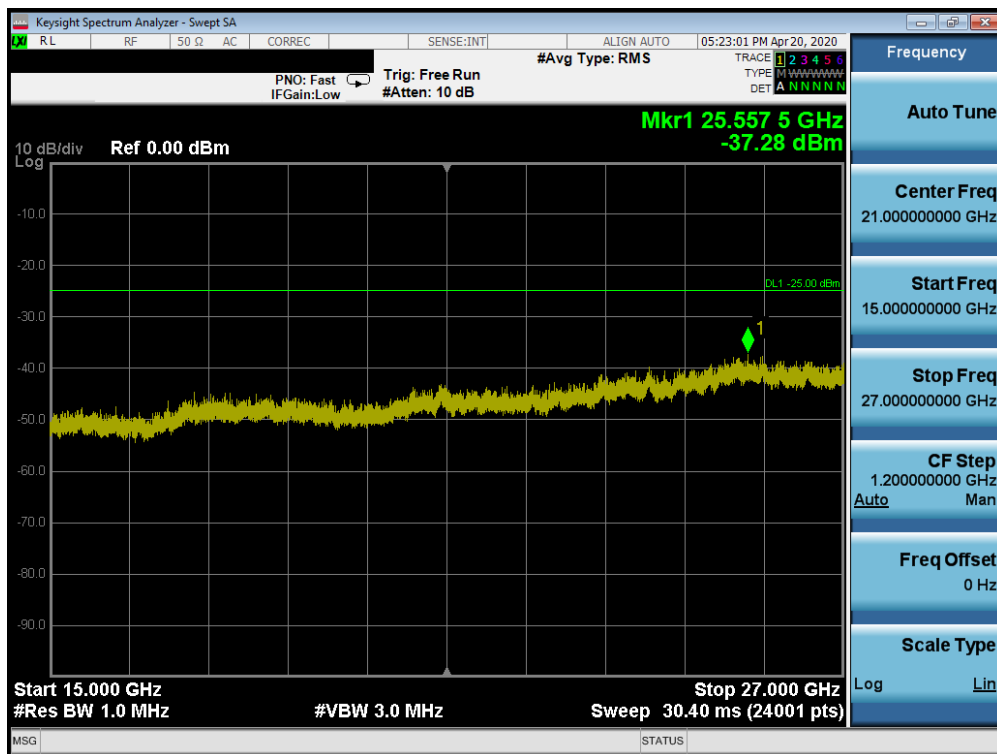


Plot 7-292. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 169 of 443 |

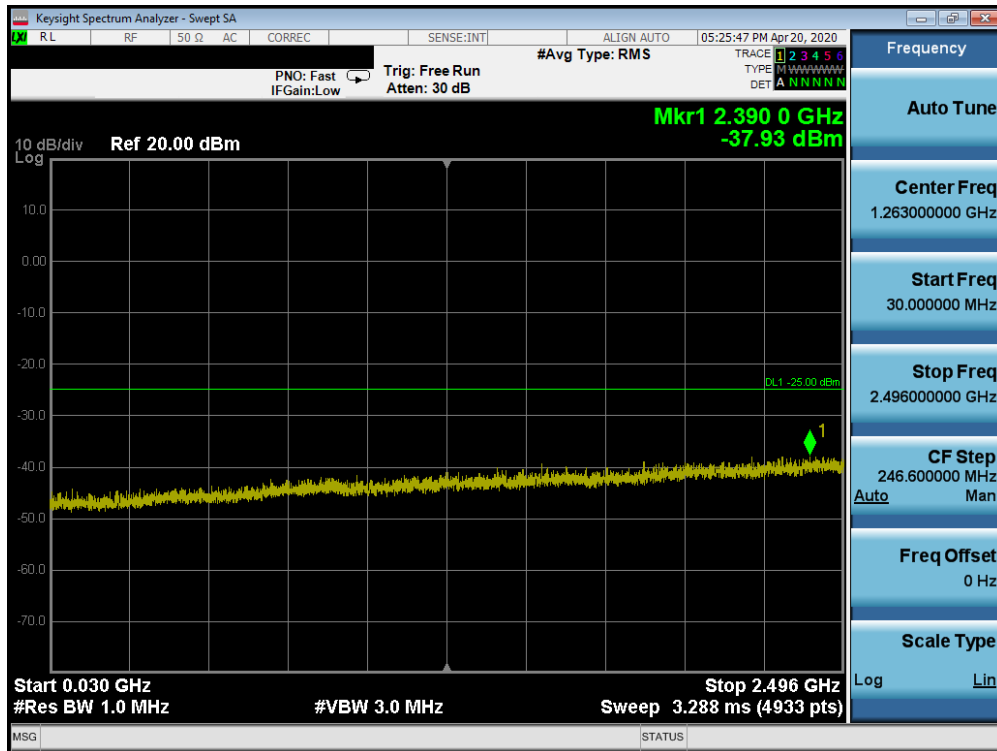


Plot 7-293. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

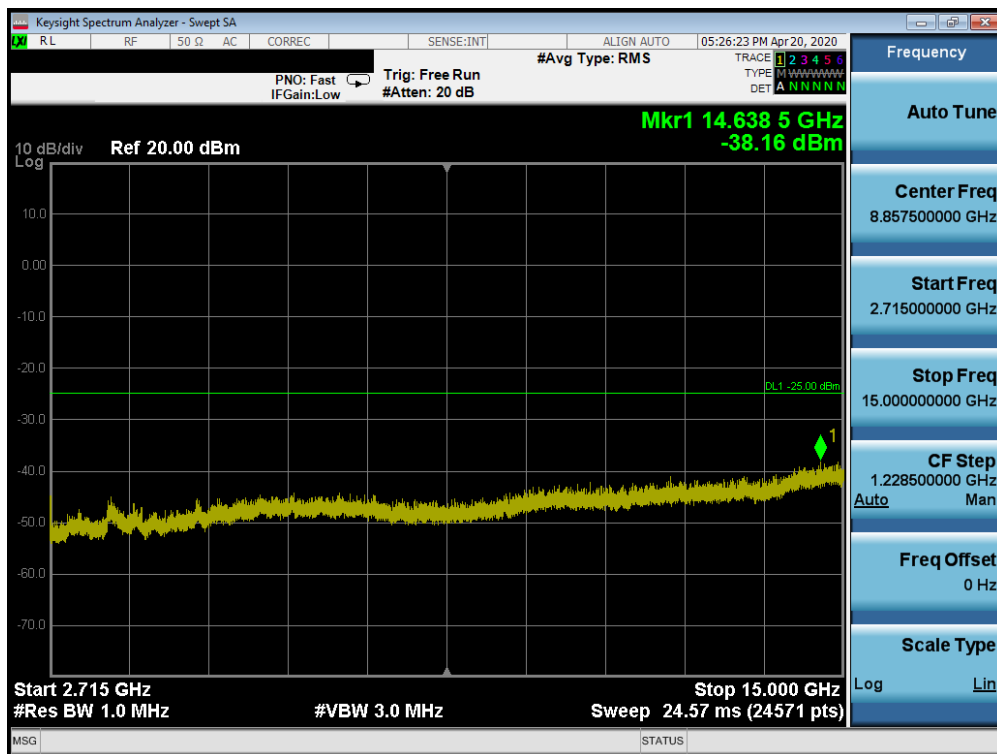


Plot 7-294. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 170 of 443 |

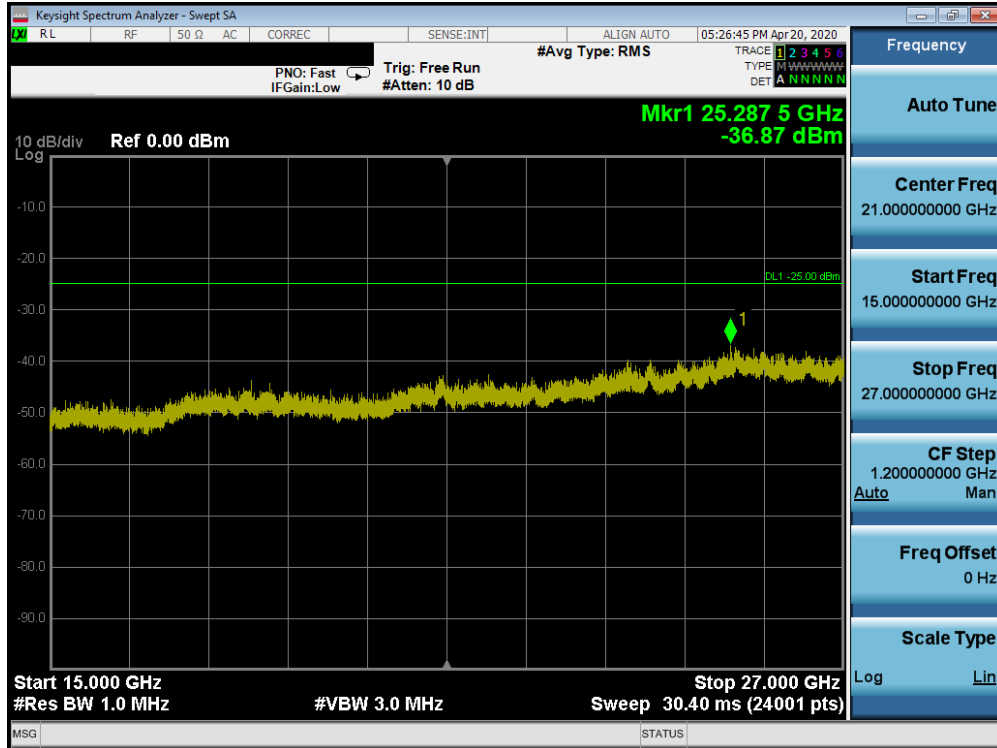


Plot 7-295. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)



Plot 7-296. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)

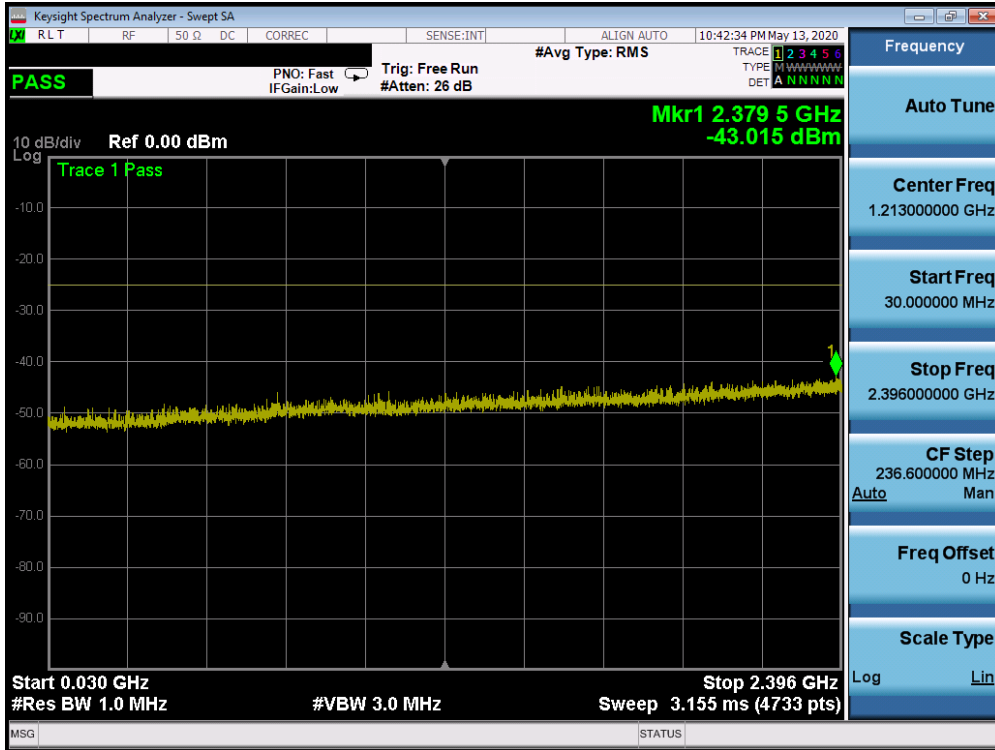
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 171 of 443 |



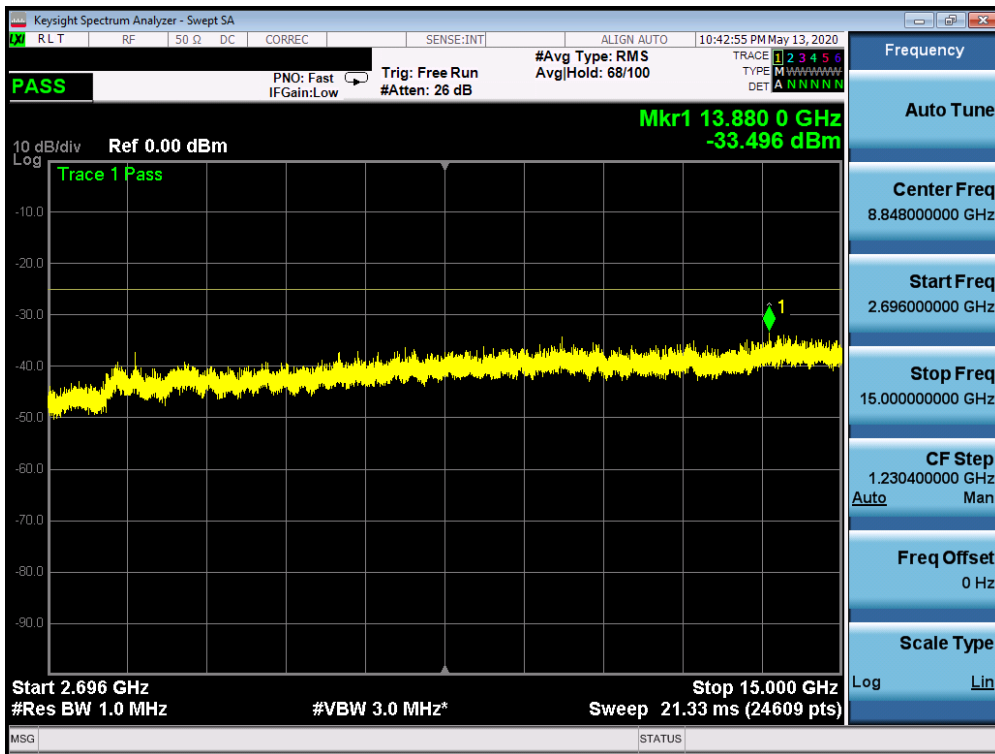
Plot 7-297. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)

| | | | | |
|---|--|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 172 of 443 |

NR Band n41

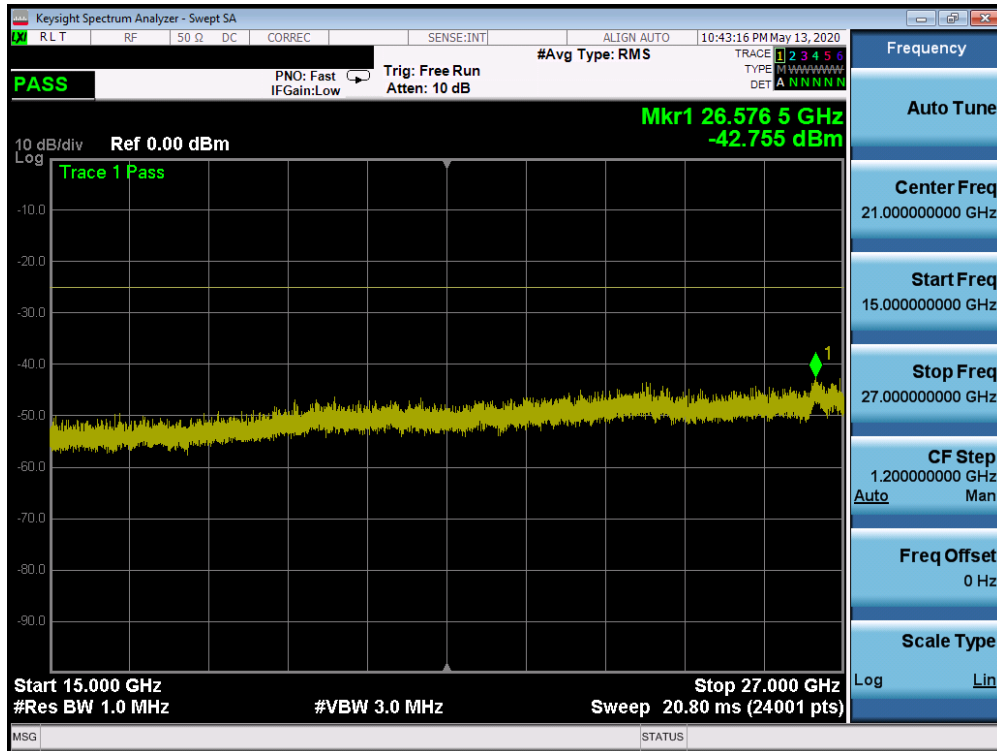


Plot 7-298. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Low Channel)

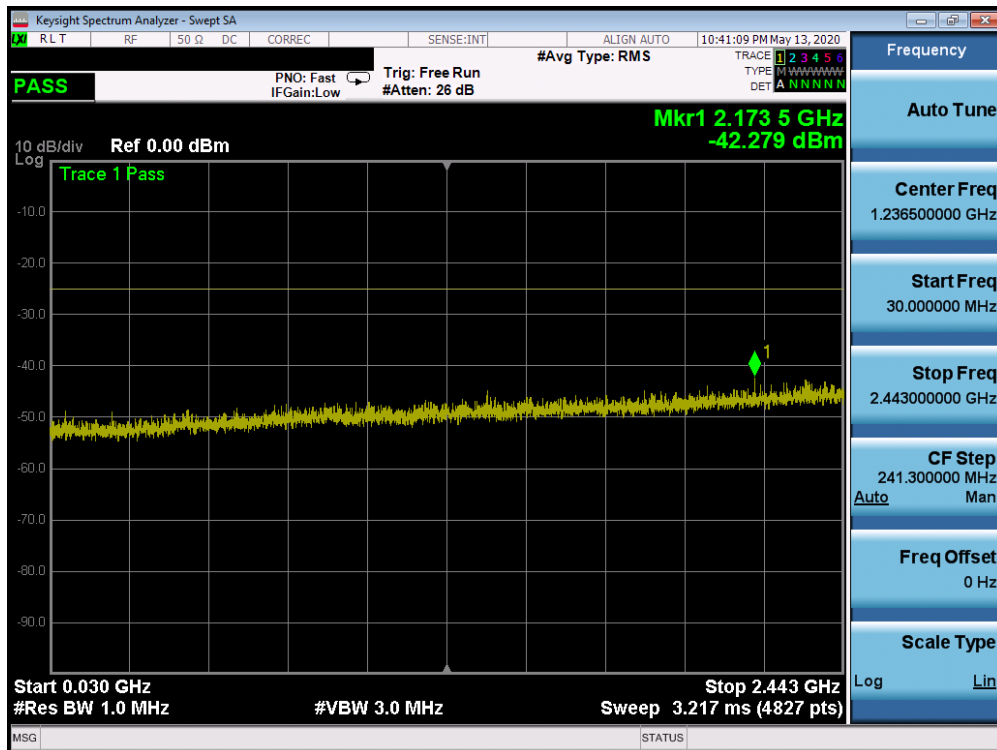


Plot 7-299. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Low Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 173 of 443 |

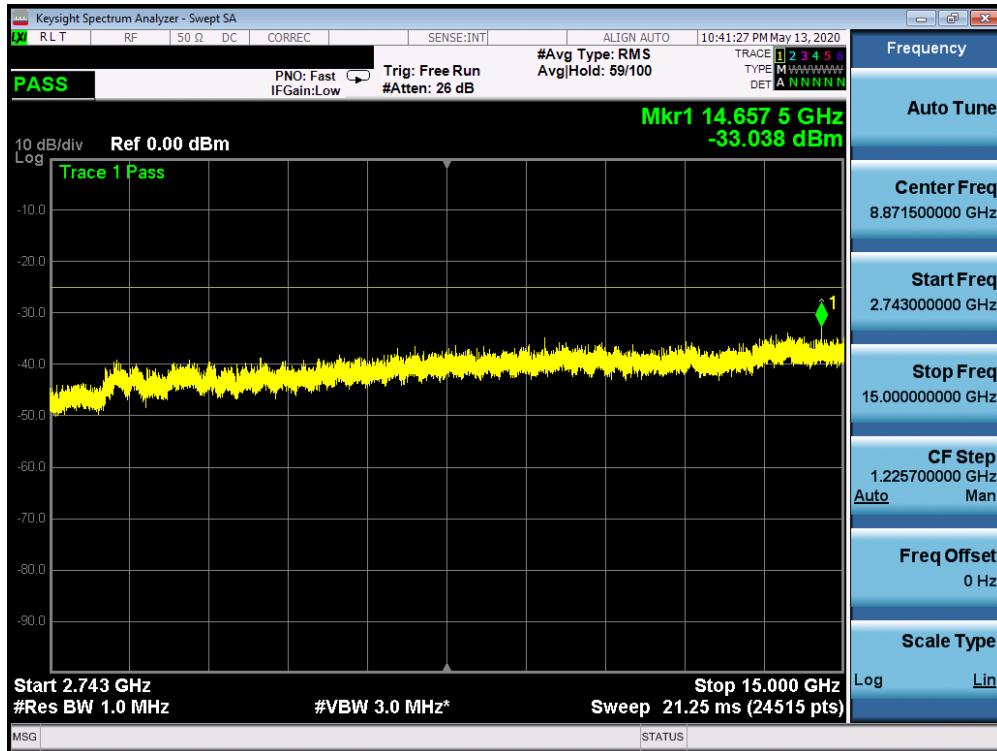


Plot 7-300. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Low Channel)

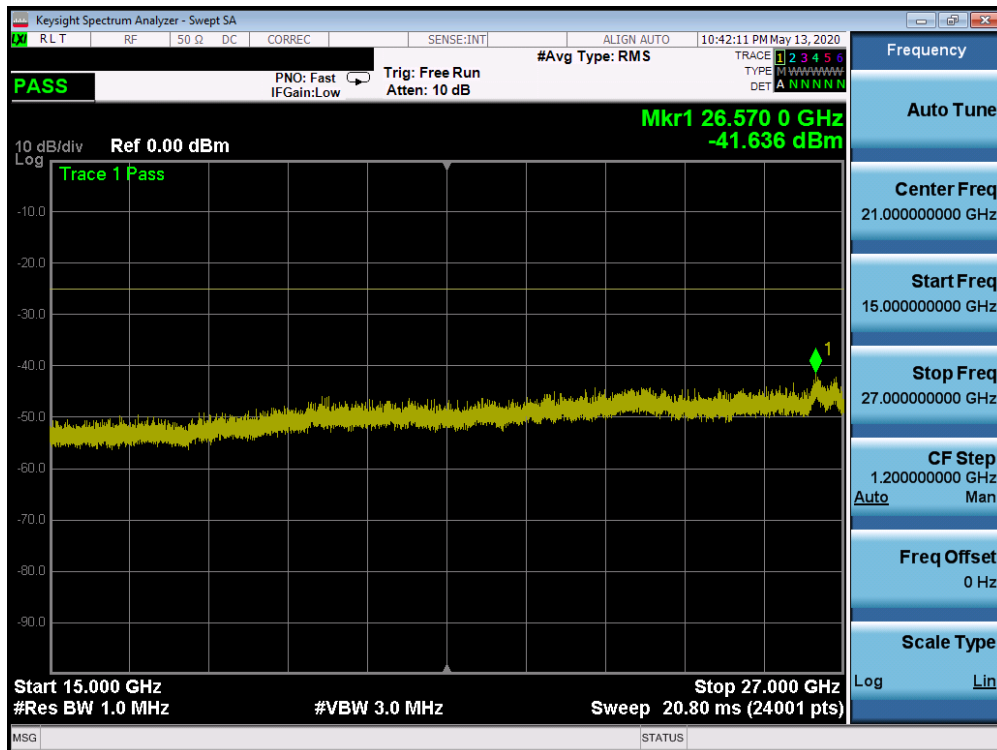


Plot 7-301. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 174 of 443 |

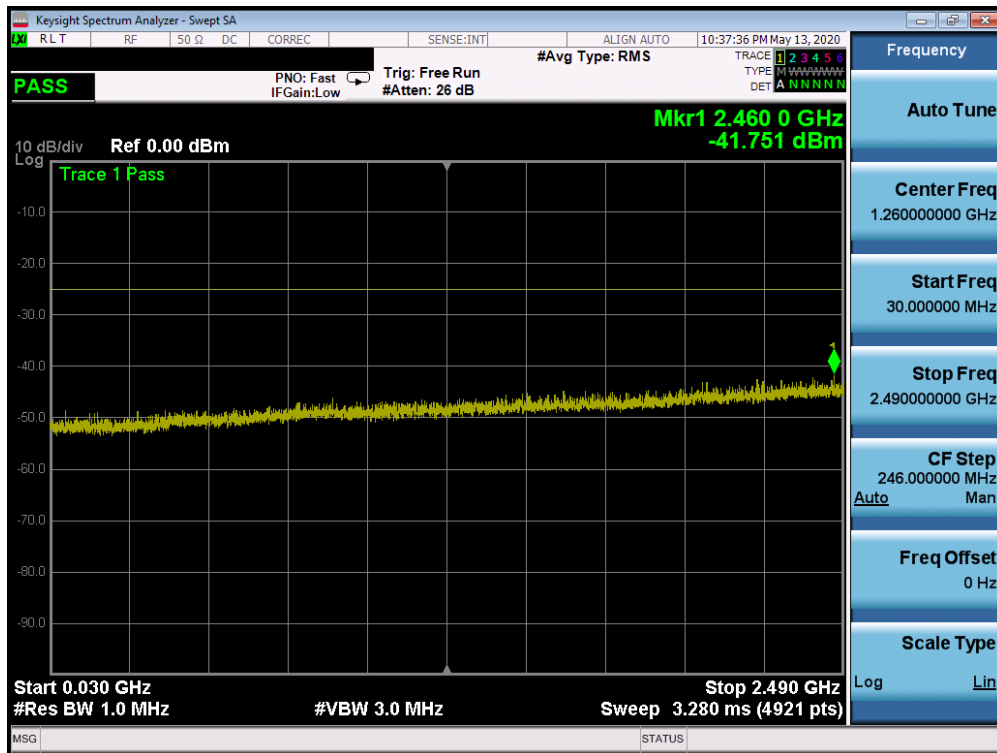


Plot 7-302. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Mid Channel)

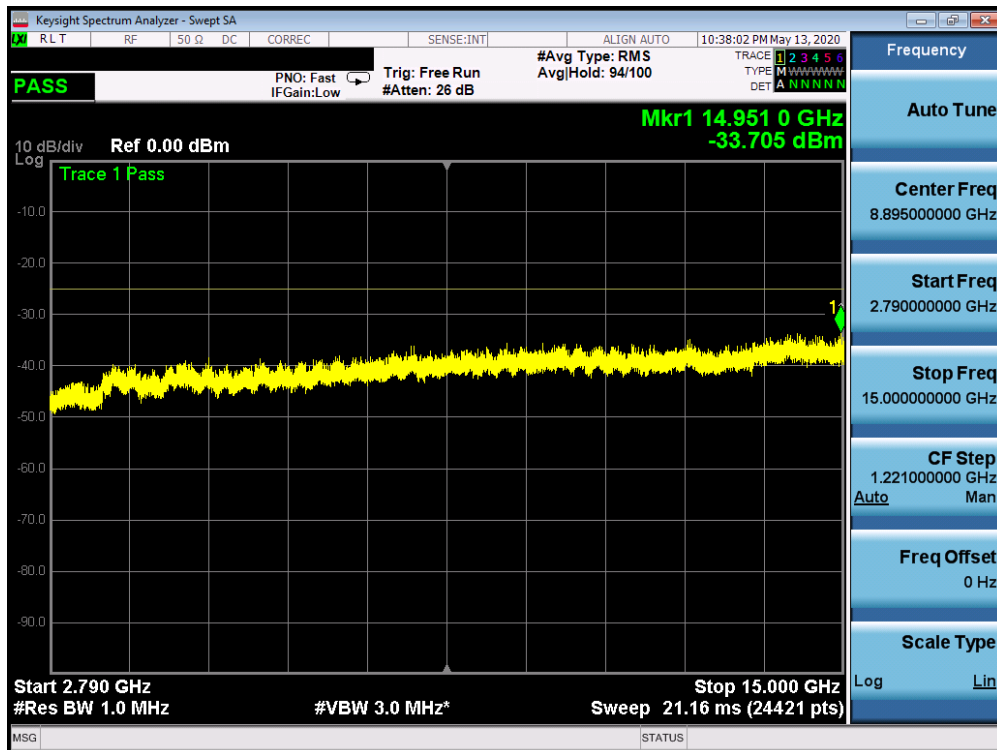


Plot 7-303. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 175 of 443 |

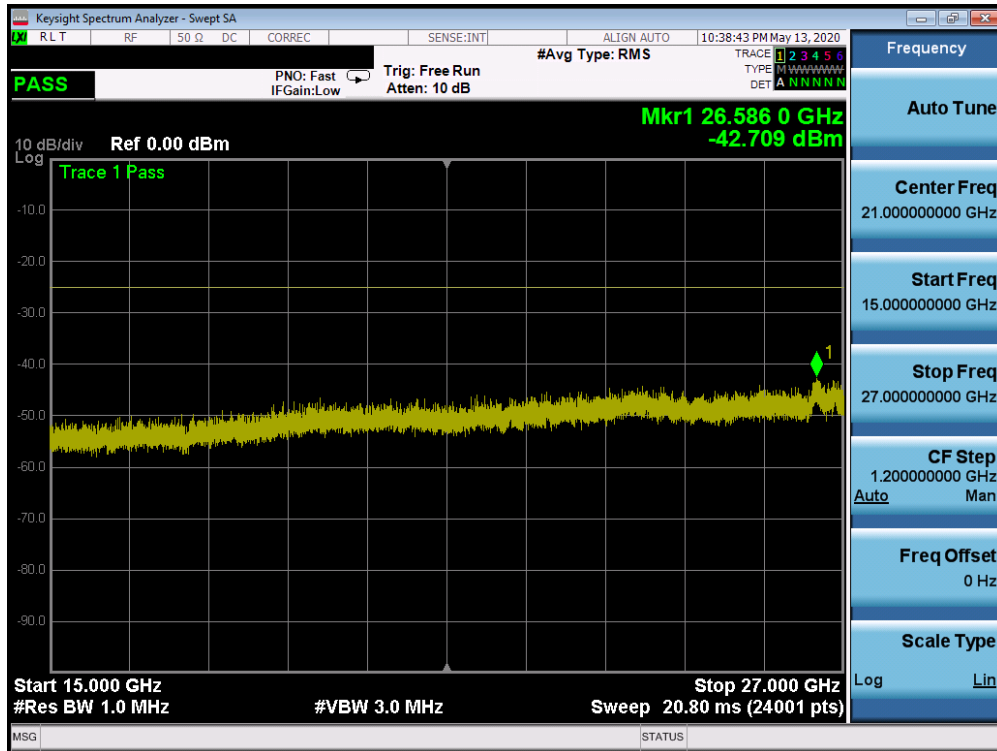


Plot 7-304. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - High Channel)



Plot 7-305. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 176 of 443 |



Plot 7-306. Conducted Spurious Plot (n41 - 100MHz DFT-s-OFDM-QPSK - RB Size 1, RB Offset 1 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 177 of 443 |

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

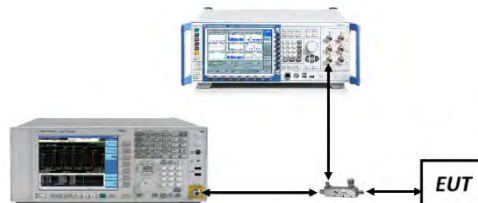


Figure 7-3. Test Instrument & Measurement Setup

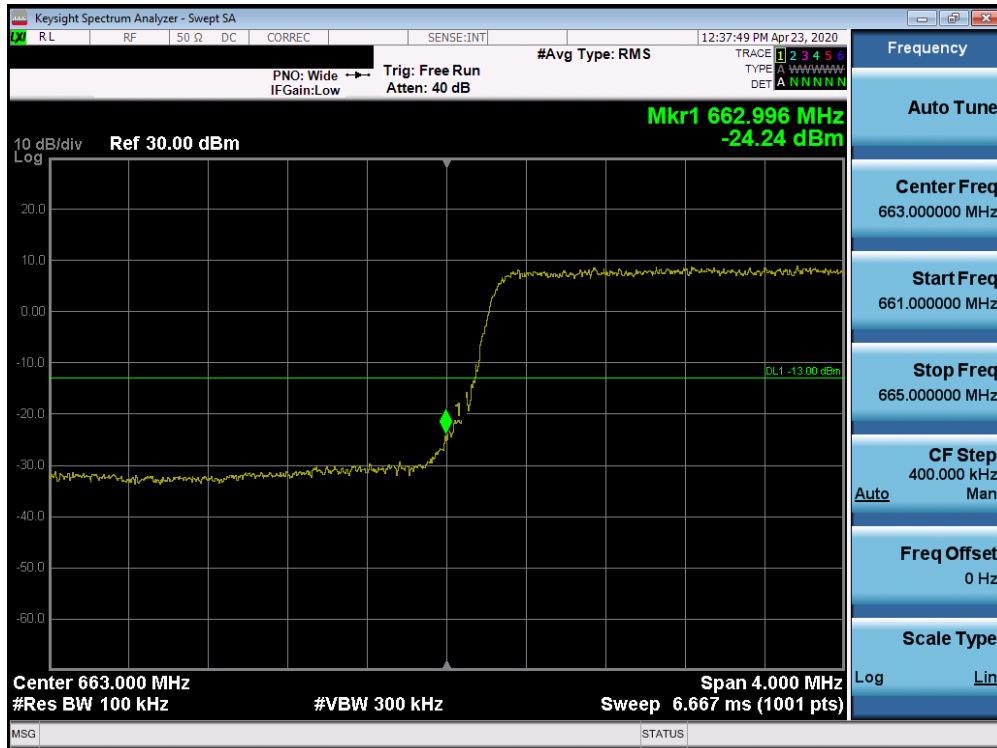
| | | | | |
|---|---------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMN986W | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 178 of 443 |

Test Notes

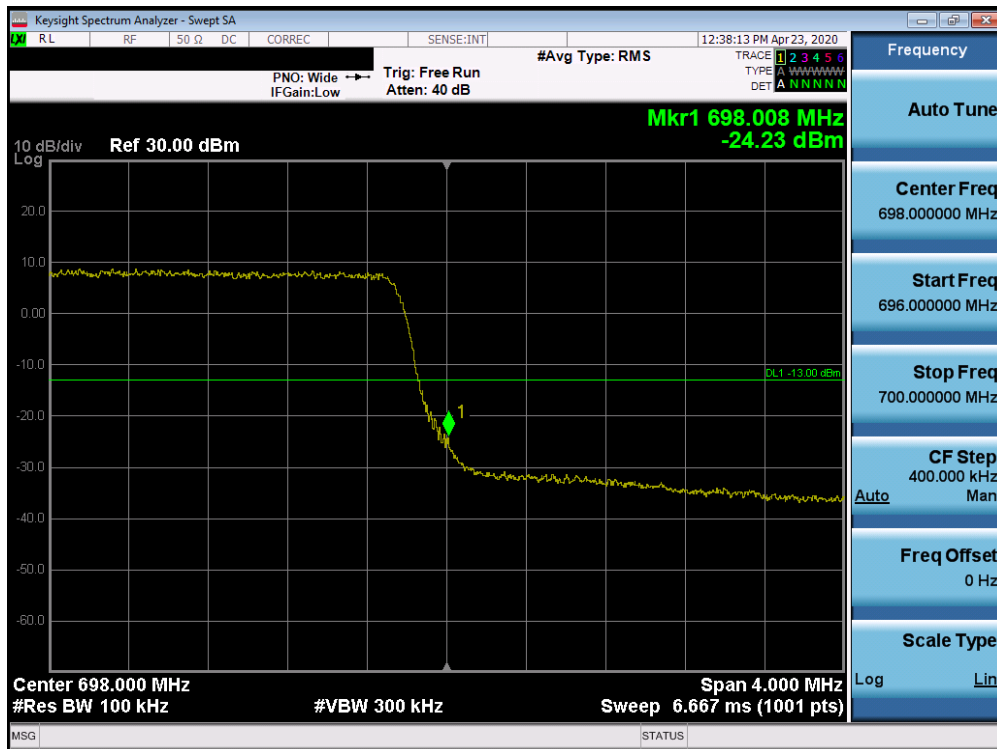
Per 22.917(b) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

| | | | |
|--|---|---|---|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | Page 179 of 443 |

Band 71

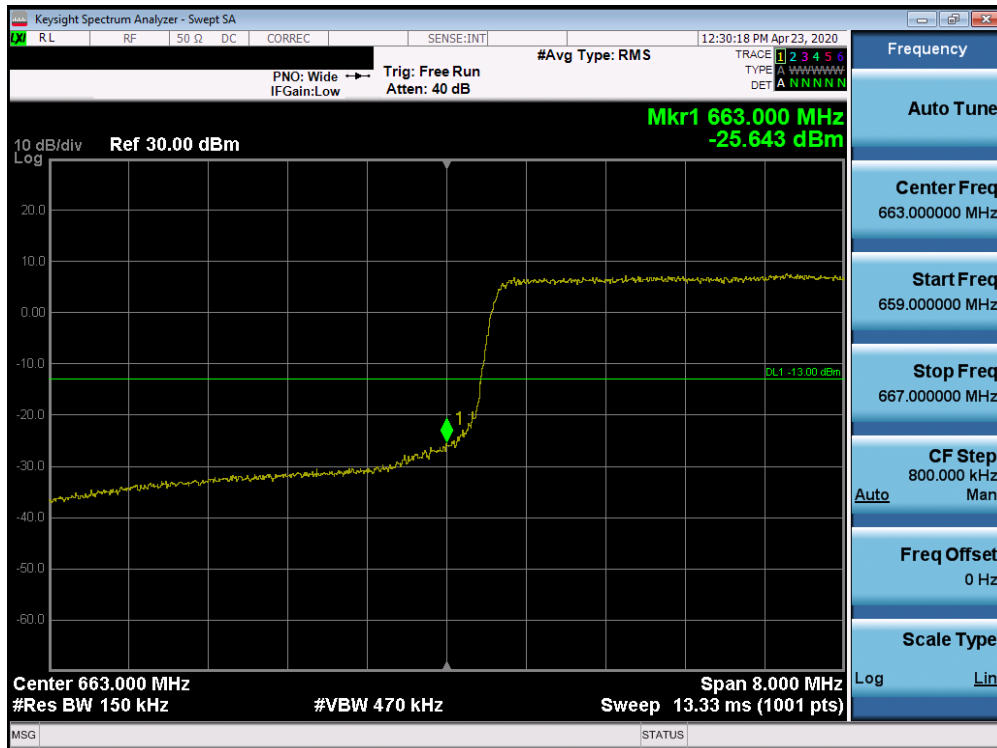


Plot 7-307. Lower Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

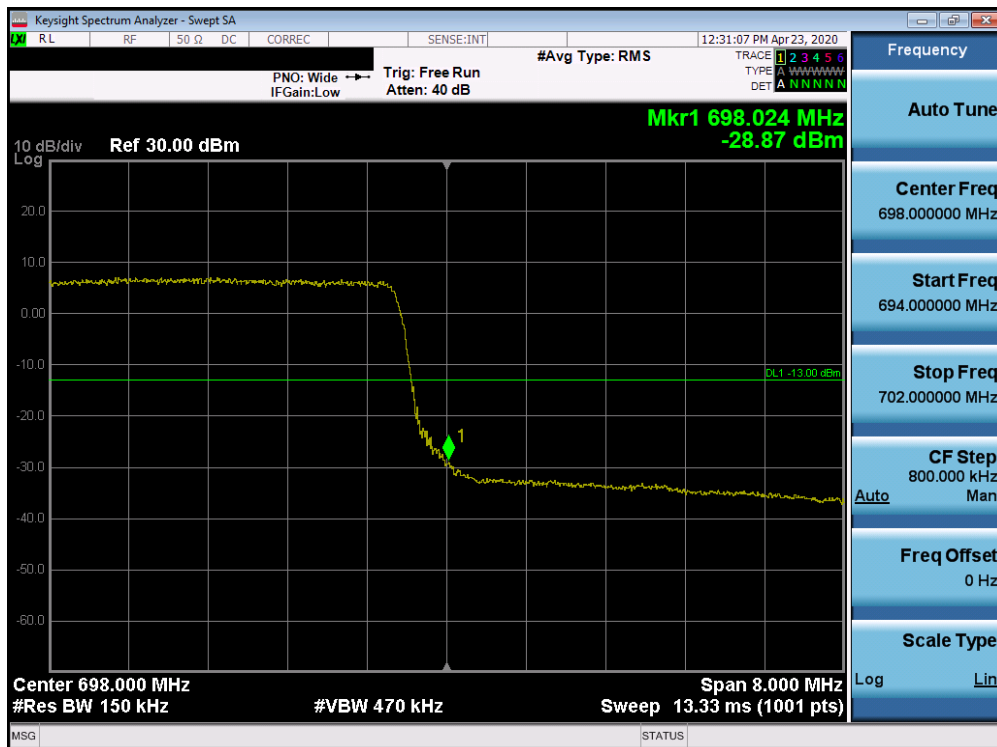


Plot 7-308. Upper Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 180 of 443 |

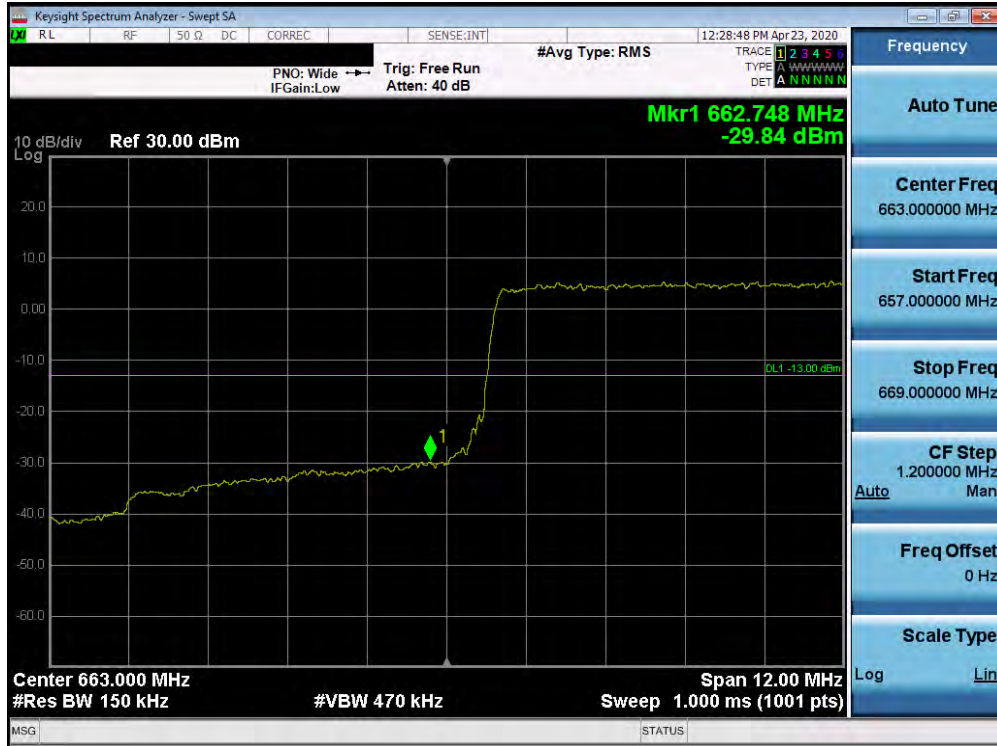


Plot 7-309. Lower Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

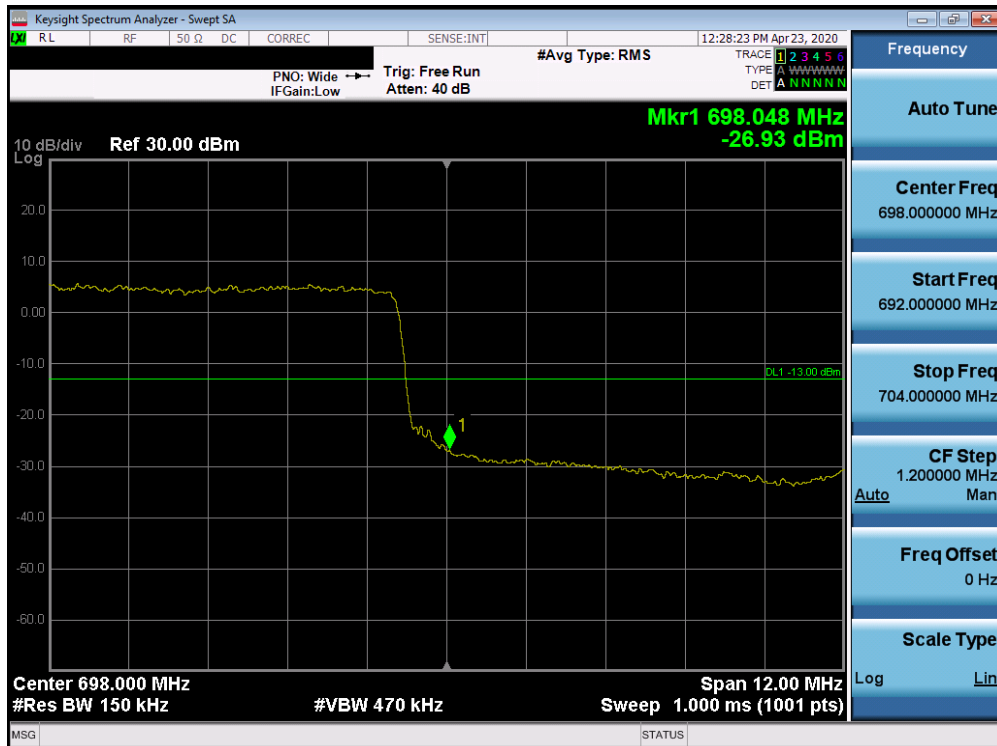


Plot 7-310. Upper Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 181 of 443 |

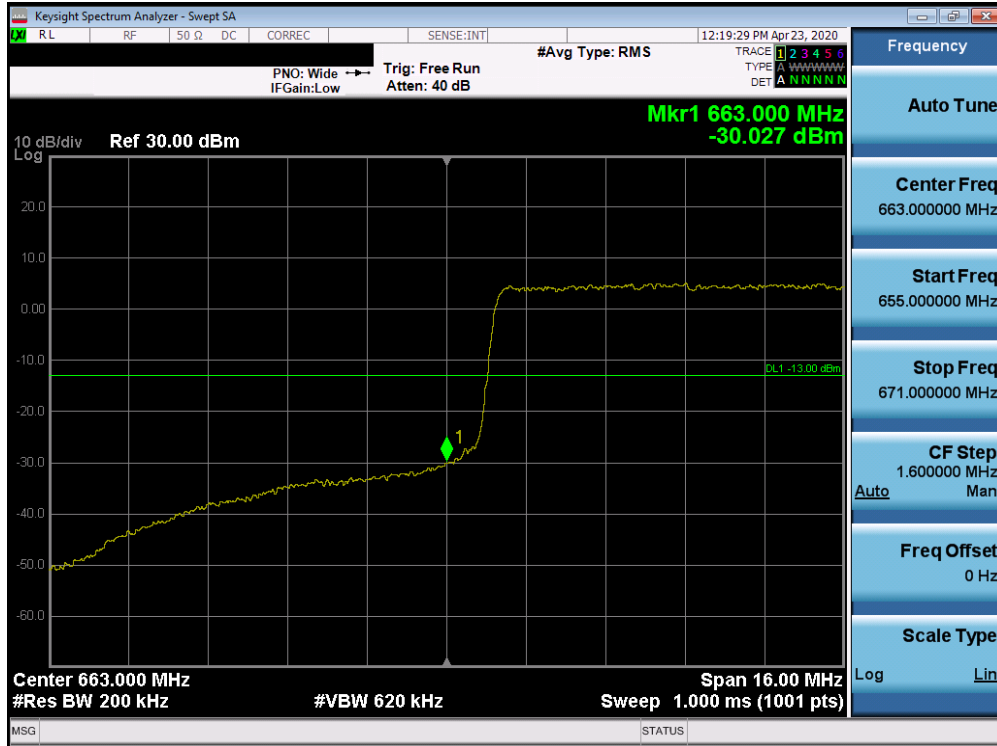


Plot 7-311. Lower Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

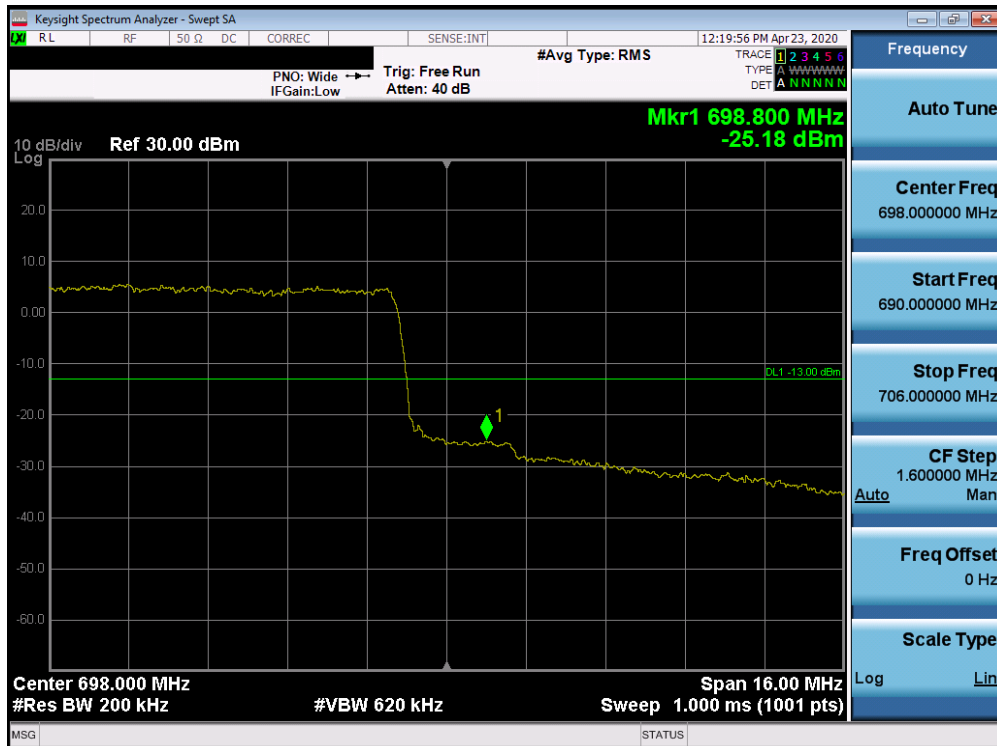


Plot 7-312. Upper Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 182 of 443 |



Plot 7-313. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-314. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 183 of 443 |

NR Band n71

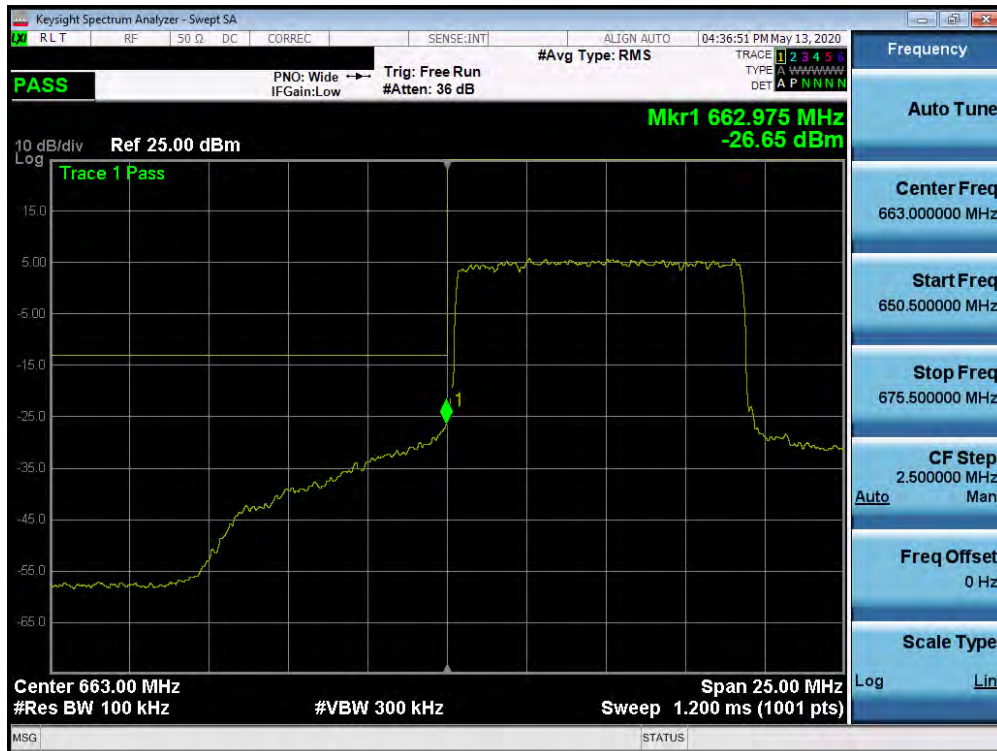


Plot 7-315. Lower Band Edge Plot (n71 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-316. Upper Band Edge Plot (n71 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 184 of 443 |

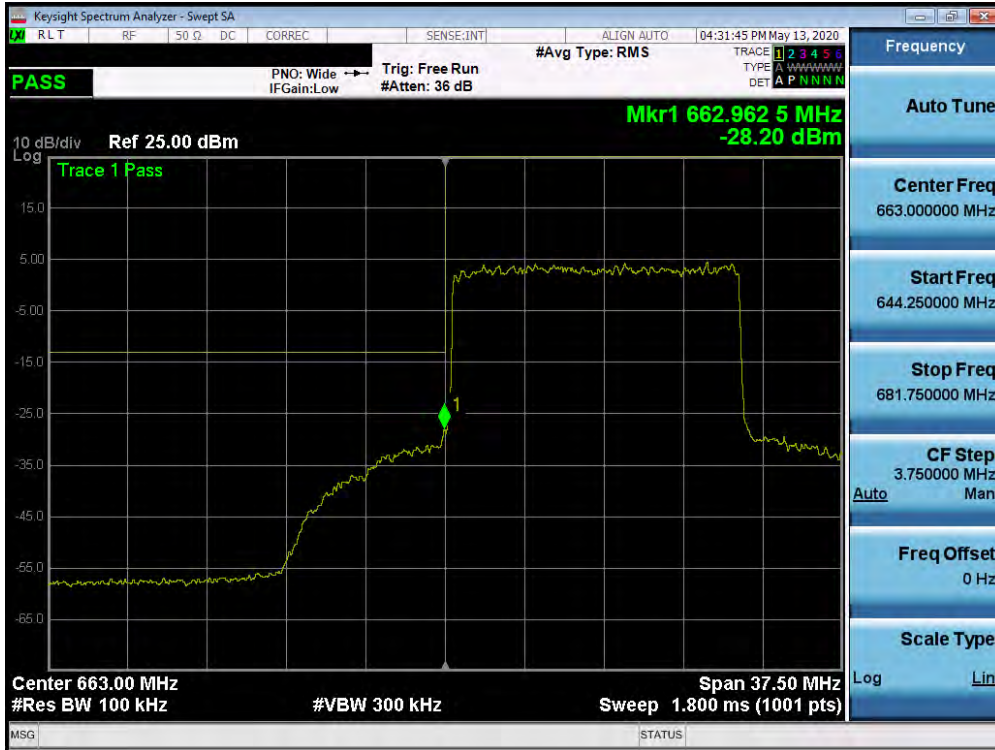


Plot 7-317. Lower Band Edge Plot (n71 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-318. Upper Band Edge Plot (n71 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 185 of 443 |

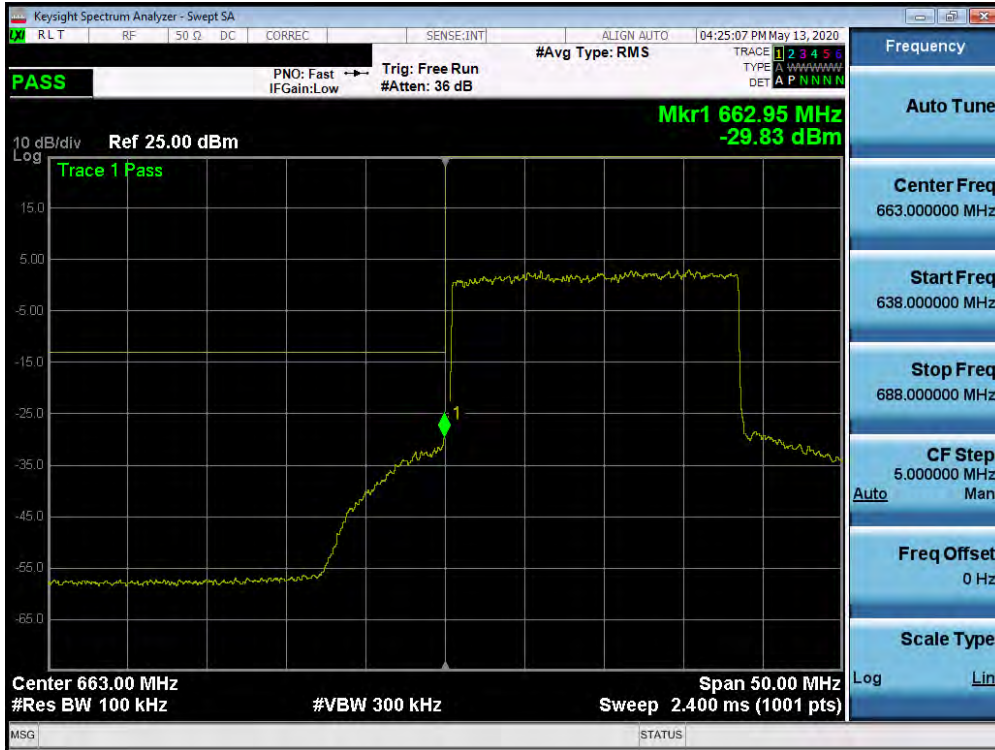


Plot 7-319. Lower Band Edge Plot (n71 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-320. Upper Band Edge Plot (n71 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 186 of 443 |



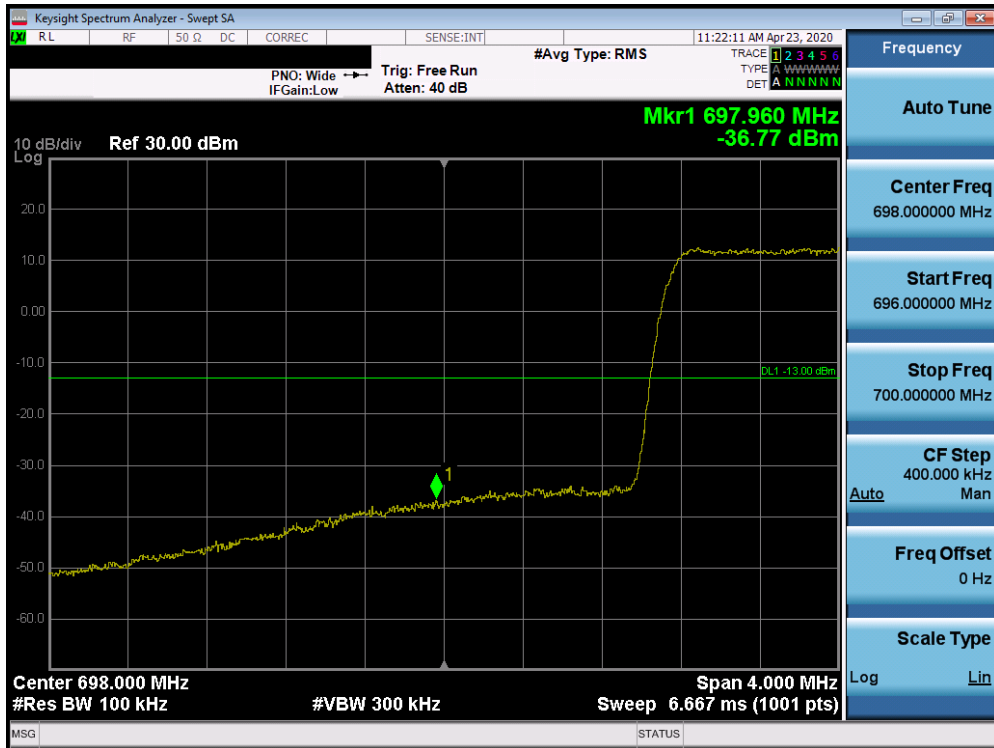
Plot 7-321. Lower Band Edge Plot (n71 - 20MHz DFT-s -OFDM-QPSK - Full RB Configuration)



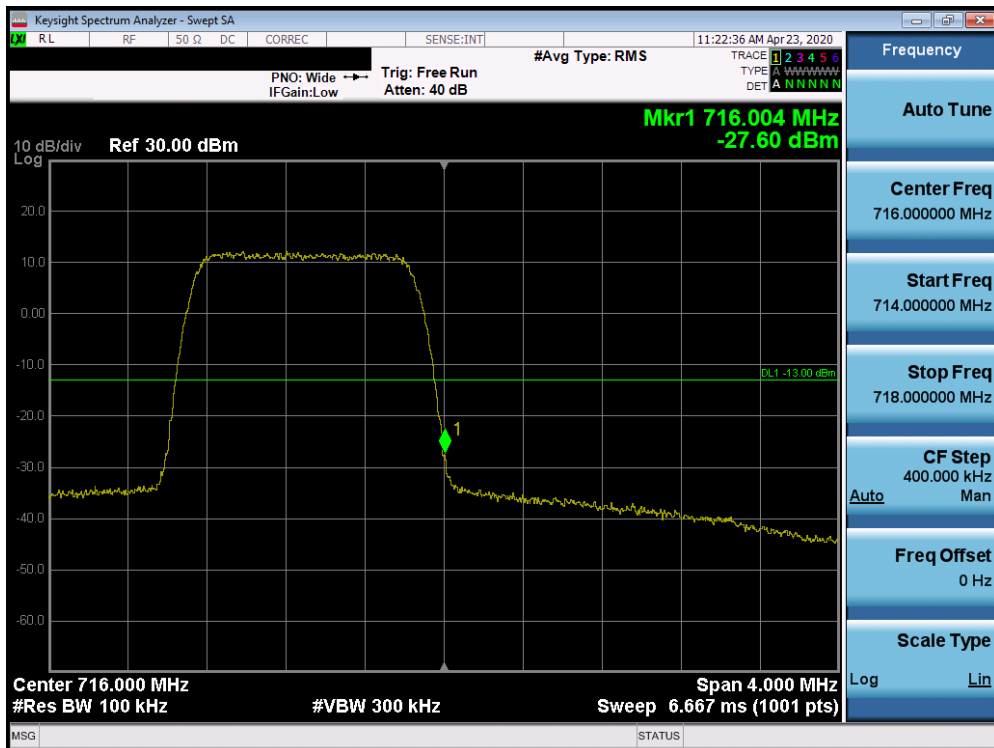
Plot 7-322. Upper Band Edge Plot (n71 - 20MHz DFT-s -OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|---------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 187 of 443 |

Band 12

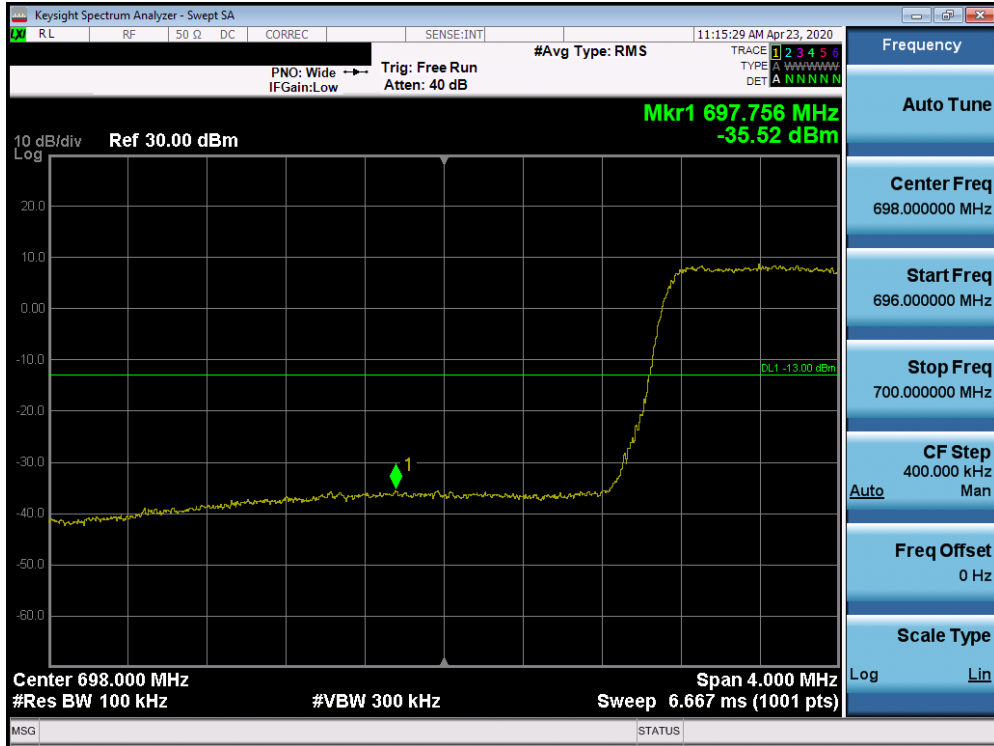


Plot 7-323. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-324. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 188 of 443 |

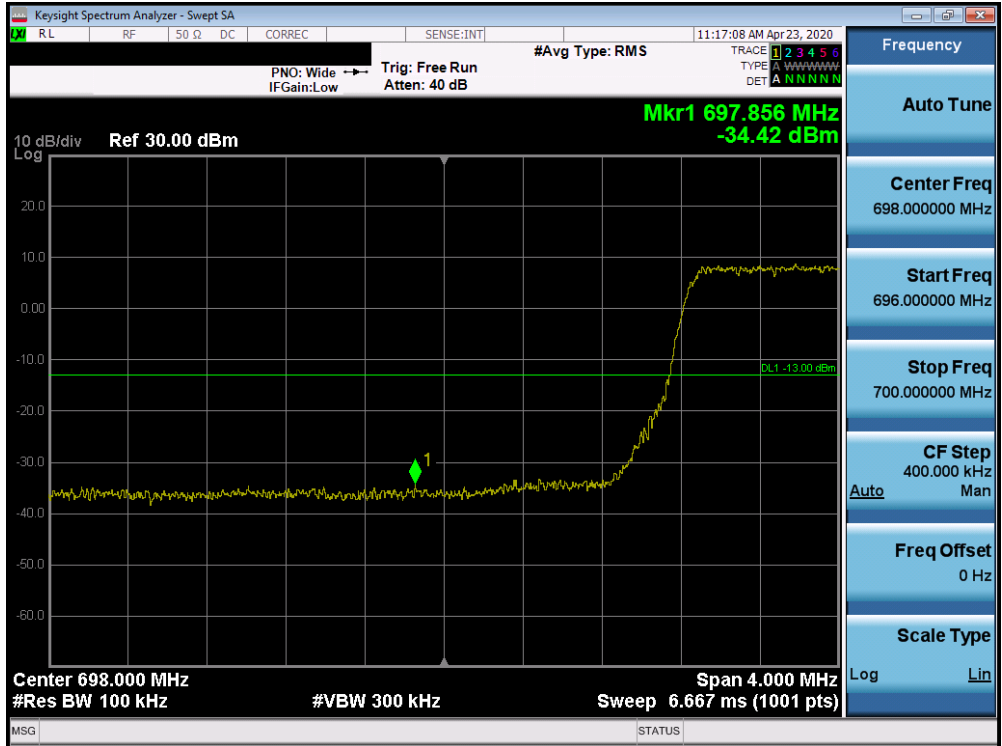


Plot 7-325. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-326. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 189 of 443 |

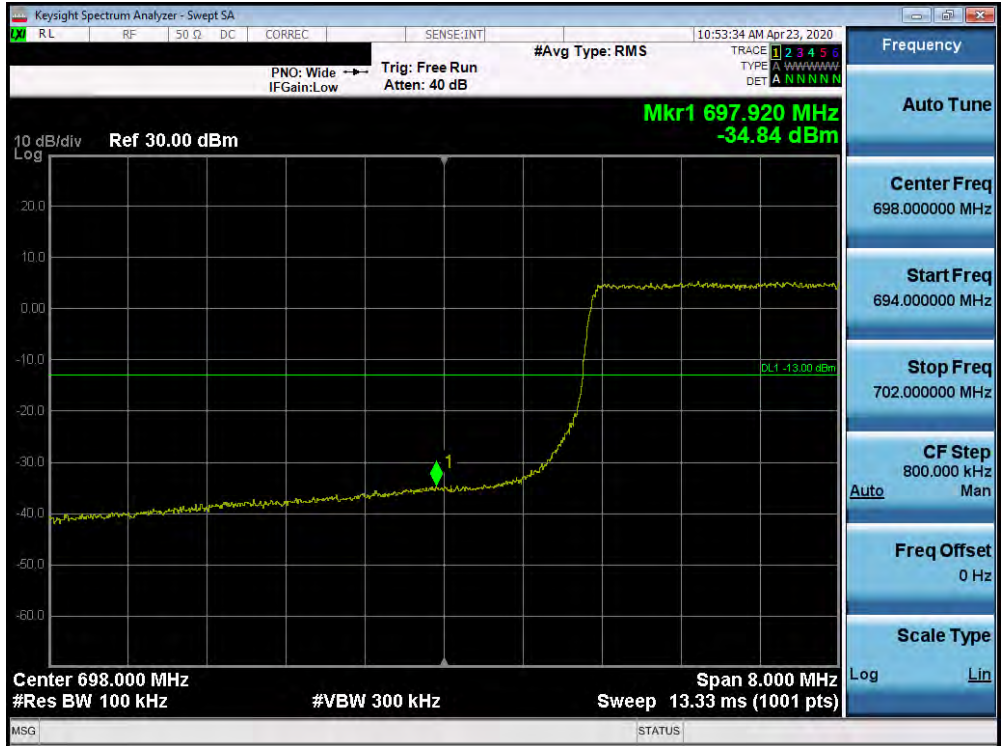


Plot 7-327. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-328. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 190 of 443 |



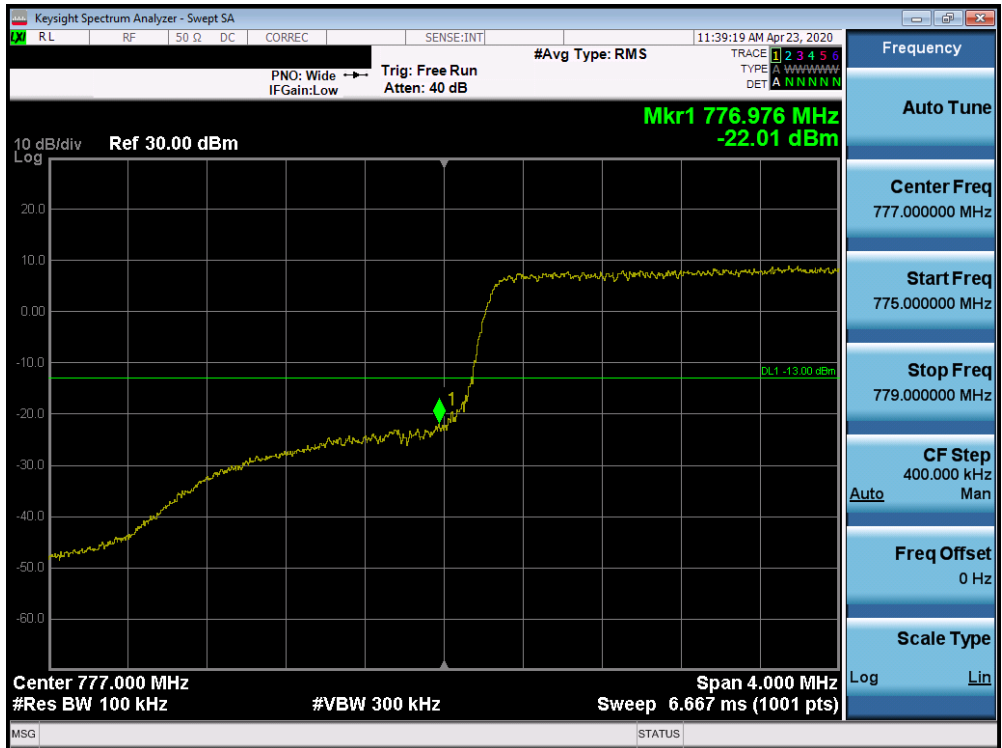
Plot 7-329. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-330. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 191 of 443 |

Band 13

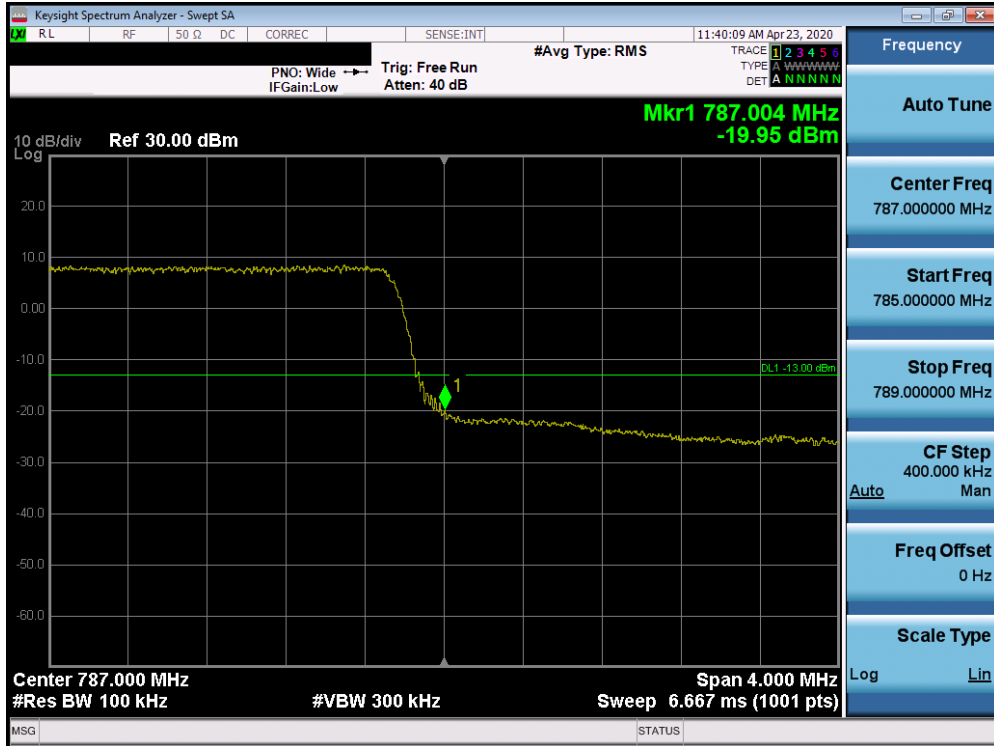


Plot 7-331. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

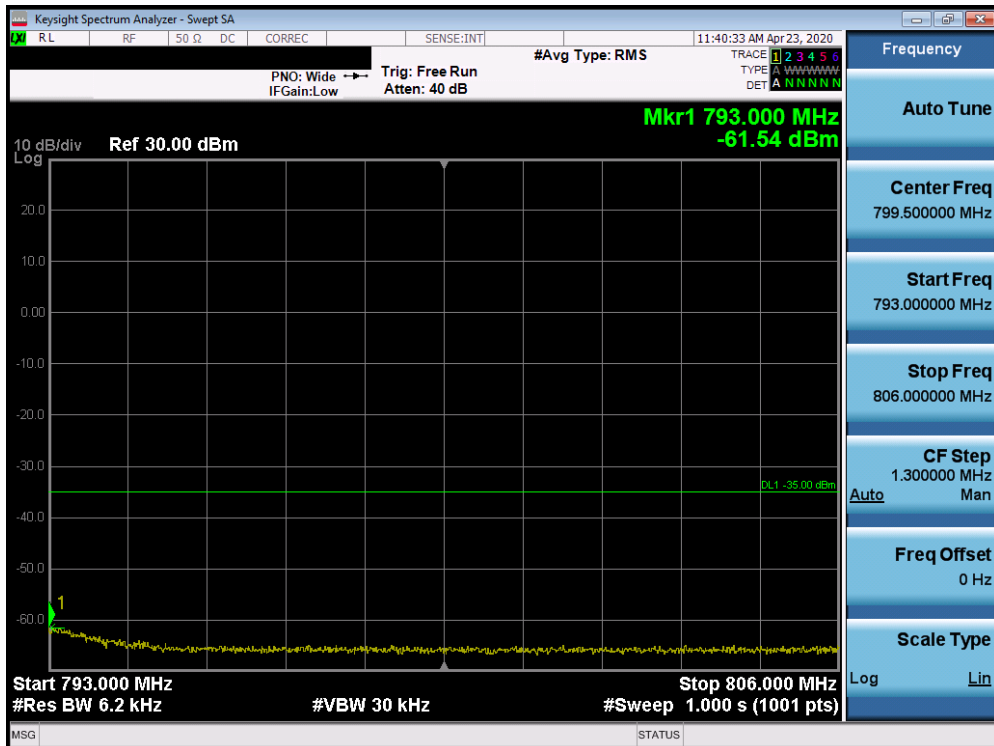


Plot 7-332. Lower Extended Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 192 of 443 |

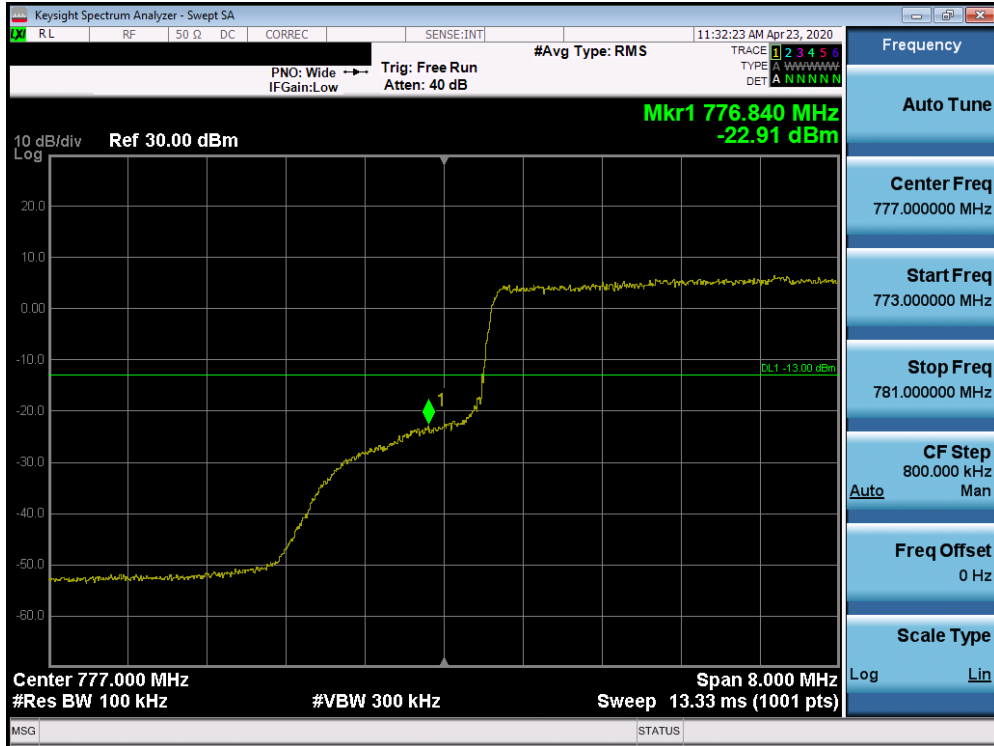


Plot 7-333. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

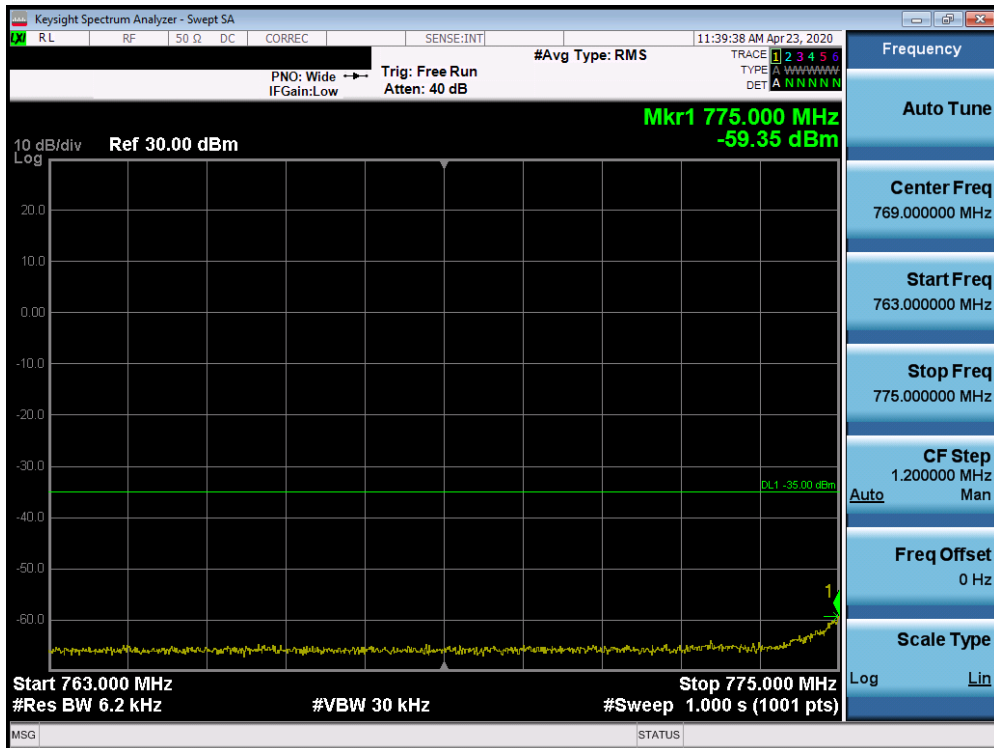


Plot 7-334. Upper Extended Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 193 of 443 |



Plot 7-335. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

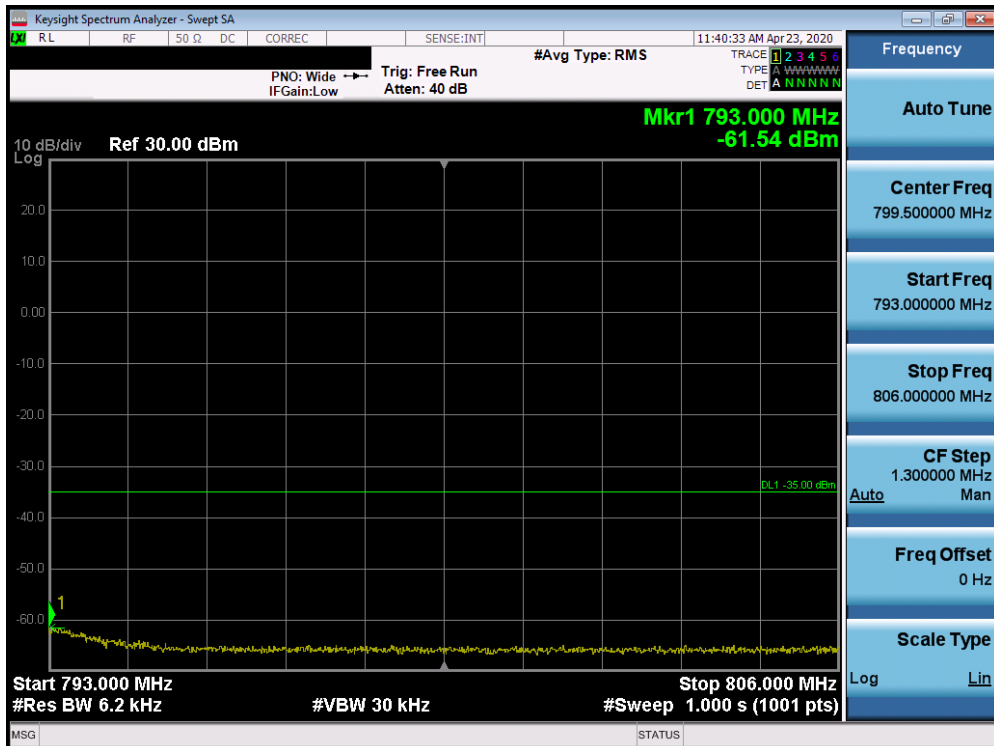


Plot 7-336. Lower Extended Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 194 of 443 |



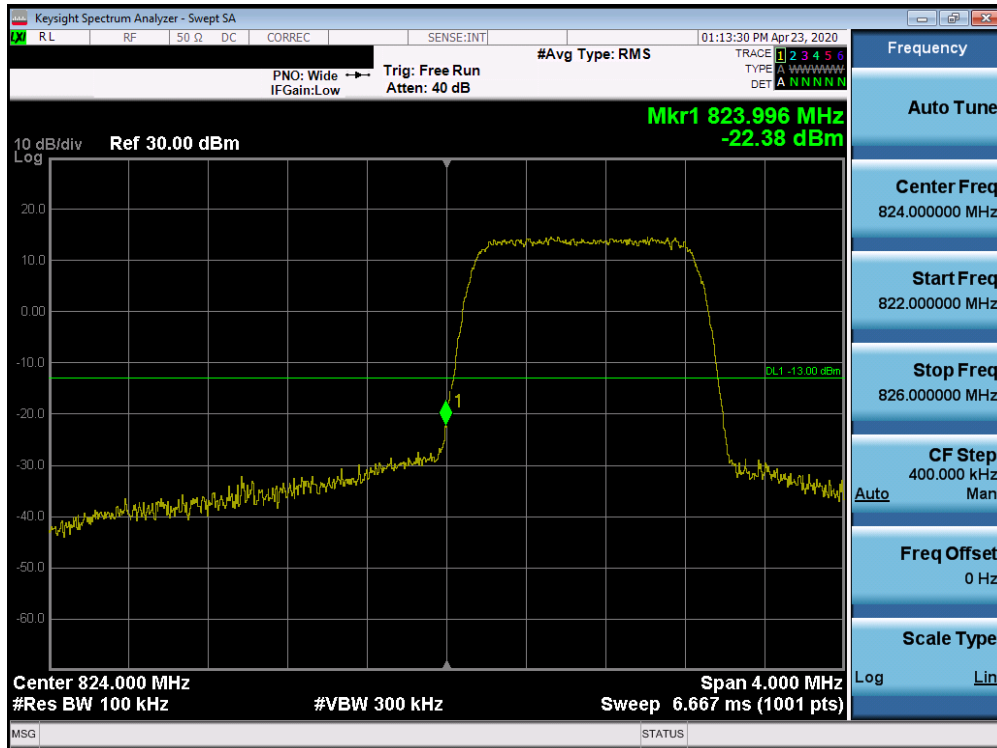
Plot 7-337. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



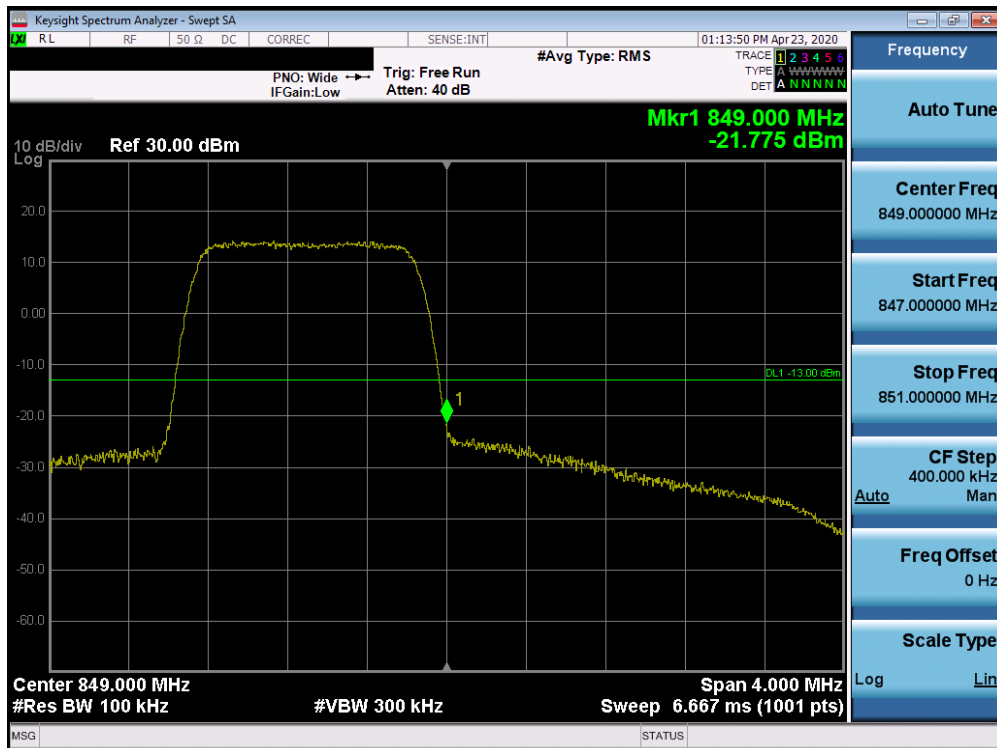
Plot 7-338. Upper Extended Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 195 of 443 |

Band 5

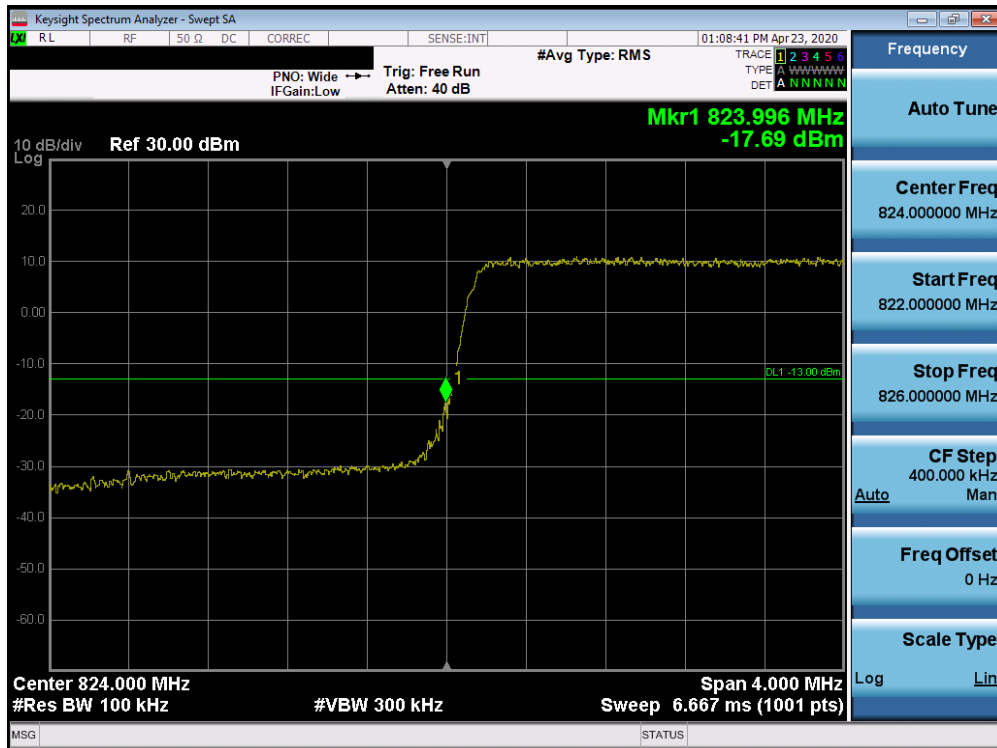


Plot 7-339. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

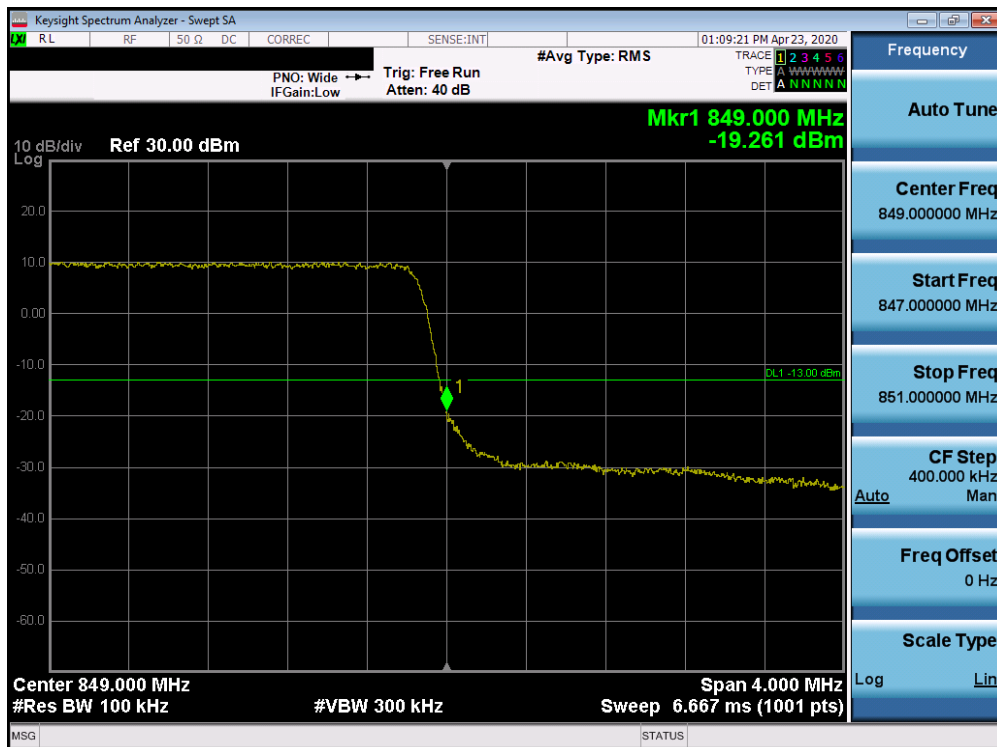


Plot 7-340. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 196 of 443 |

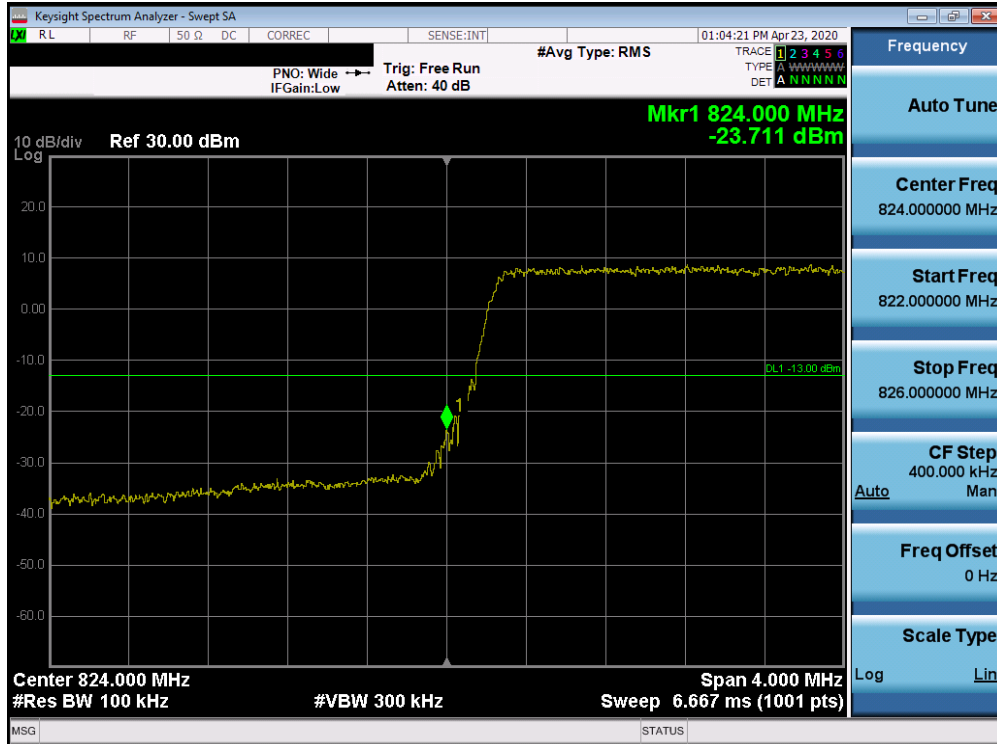


Plot 7-341. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

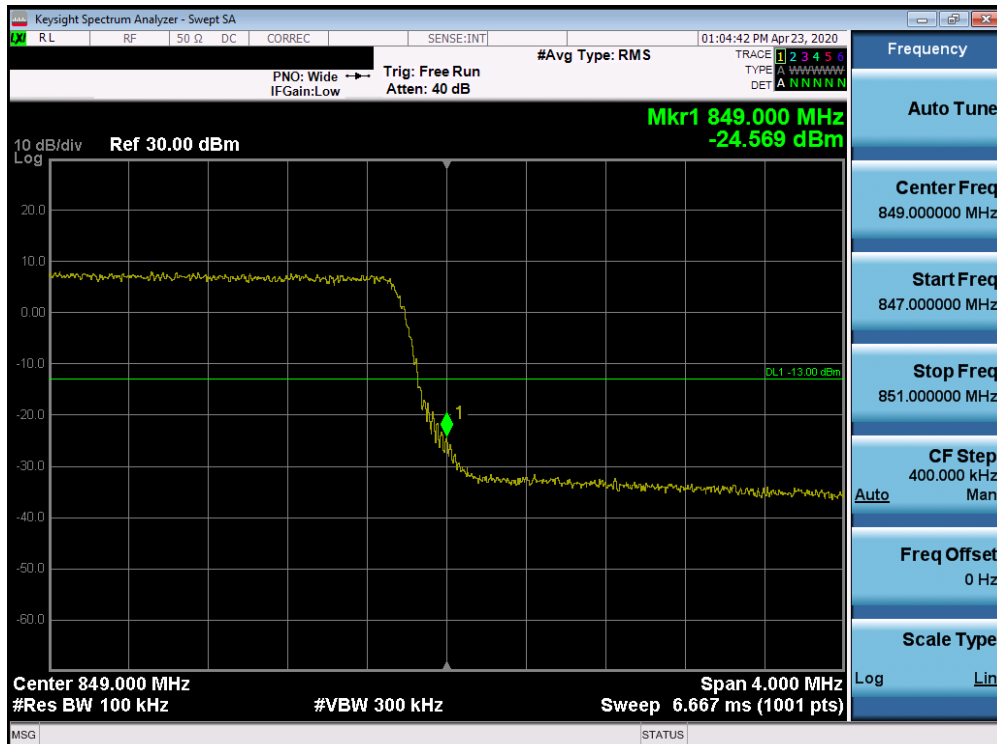


Plot 7-342. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 197 of 443 |

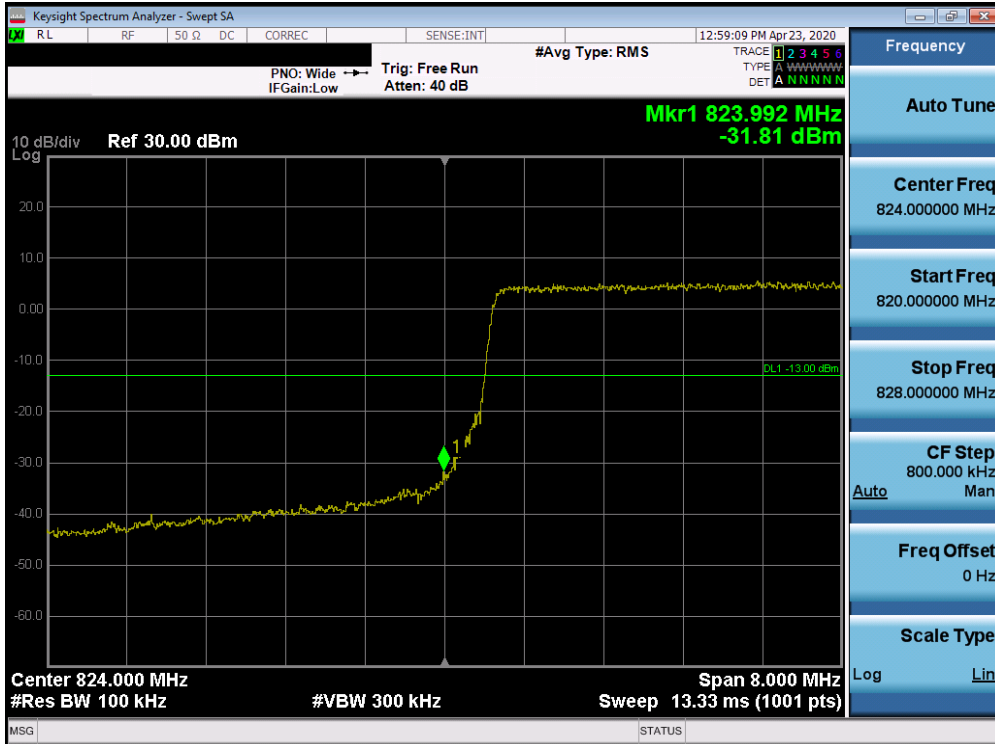


Plot 7-343. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-344. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 198 of 443 |



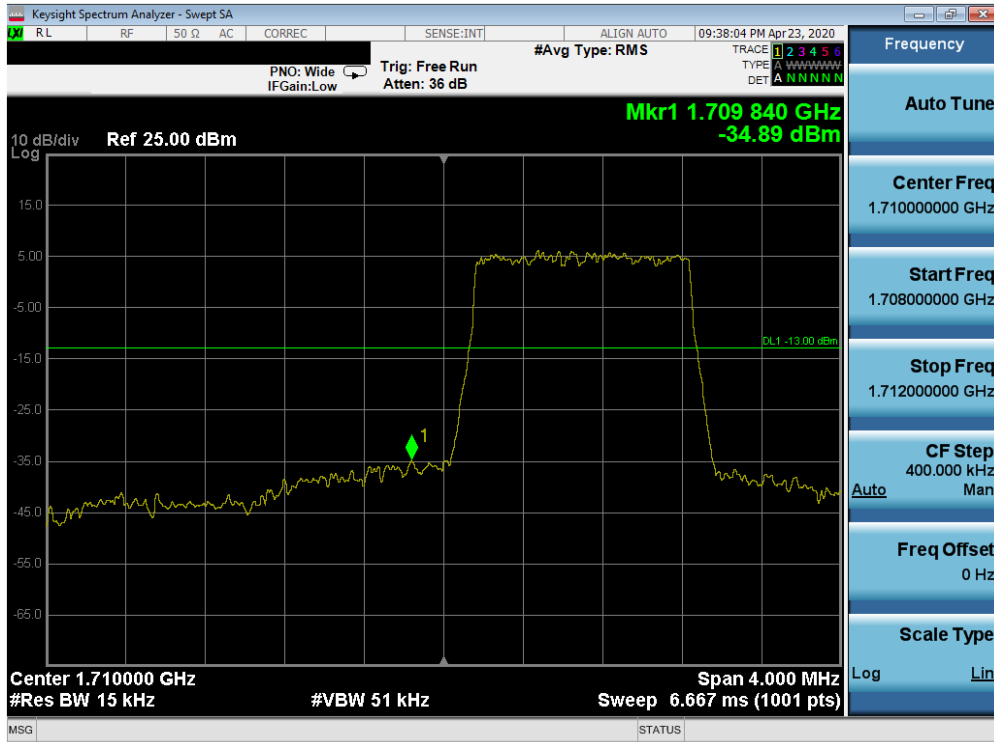
Plot 7-345. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)



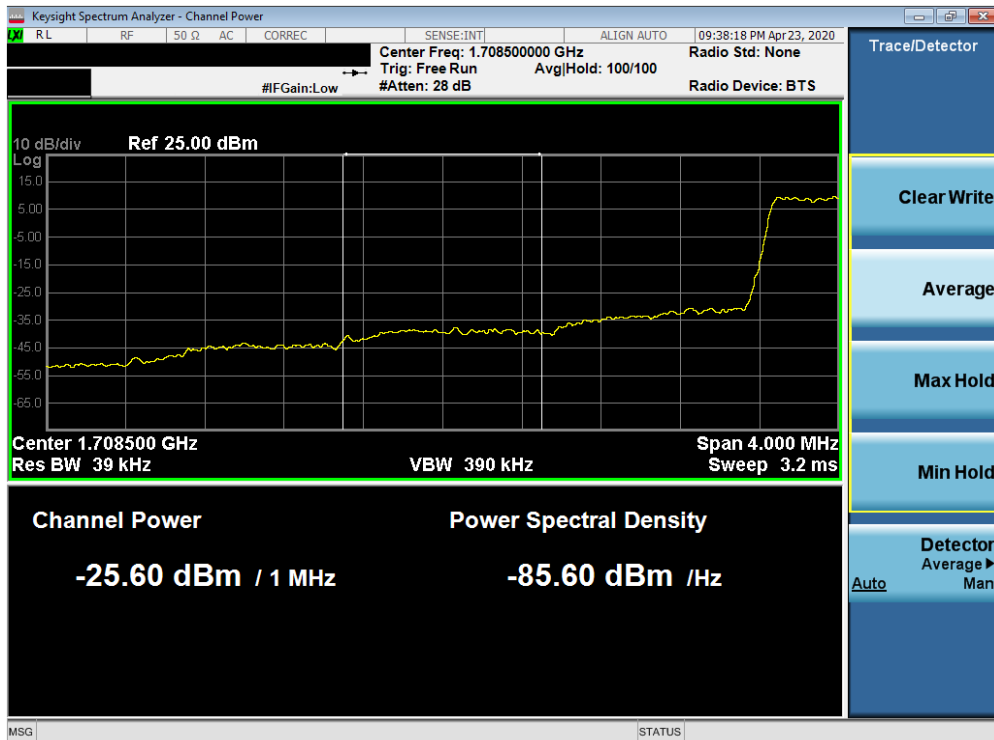
Plot 7-346. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 199 of 443 |

Band 66/4

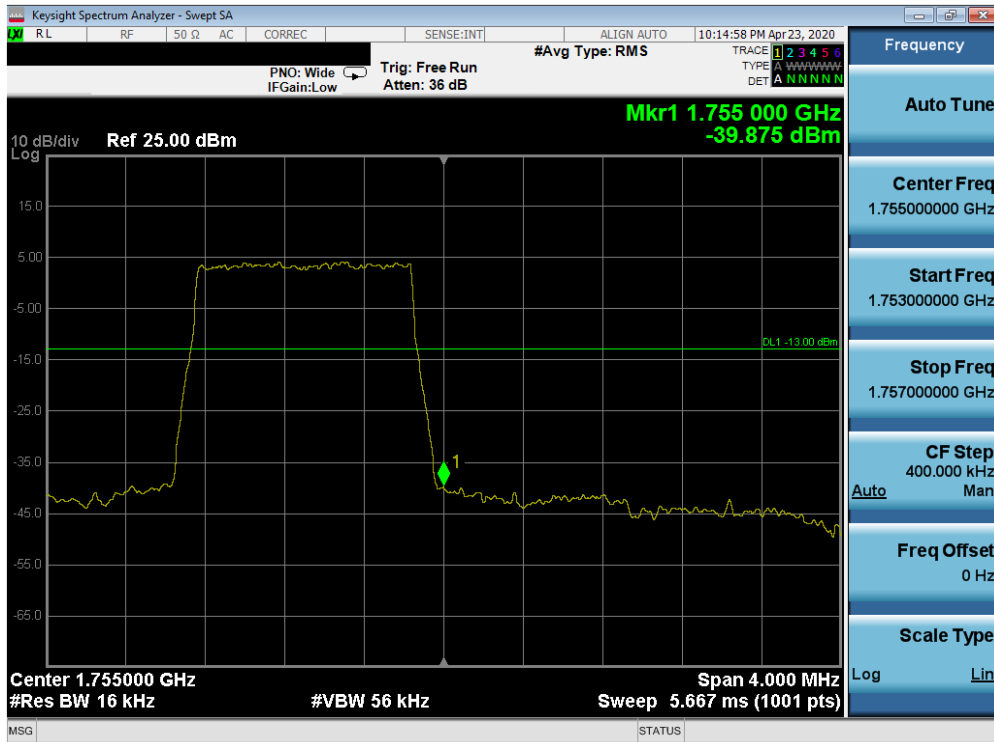


Plot 7-347. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

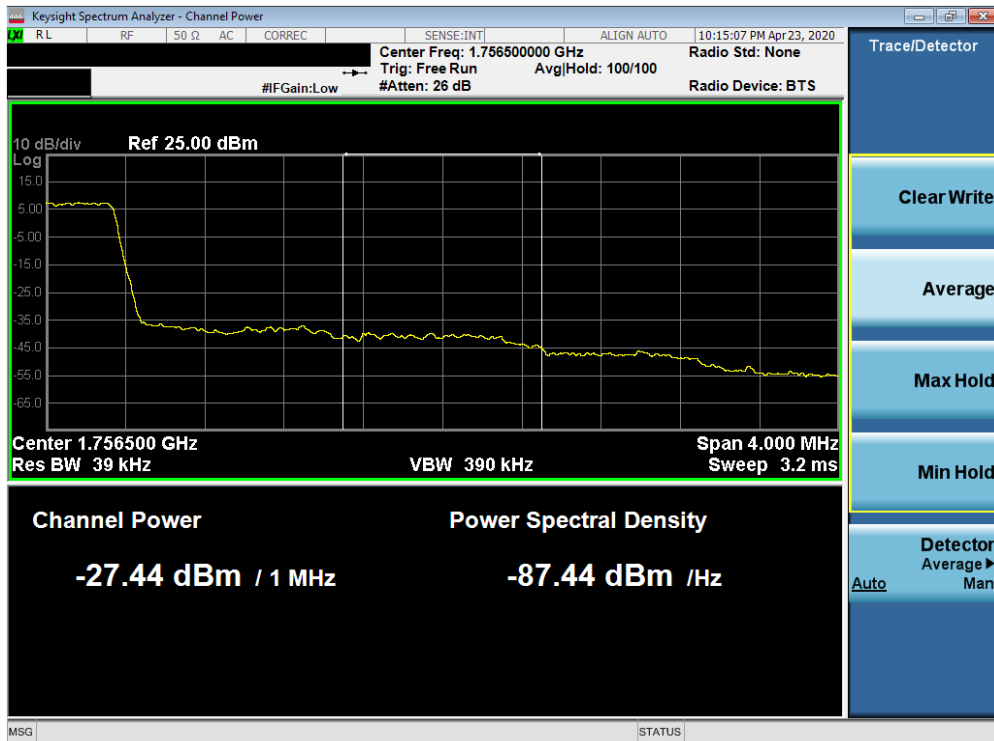


Plot 7-348. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 200 of 443 |

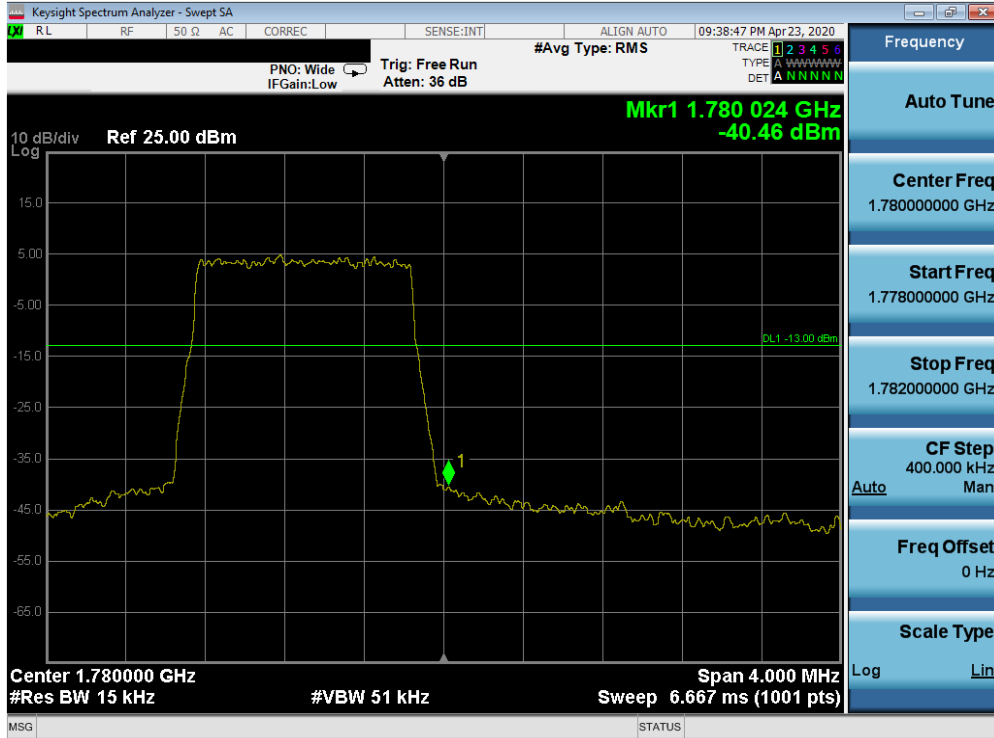


Plot 7-349. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

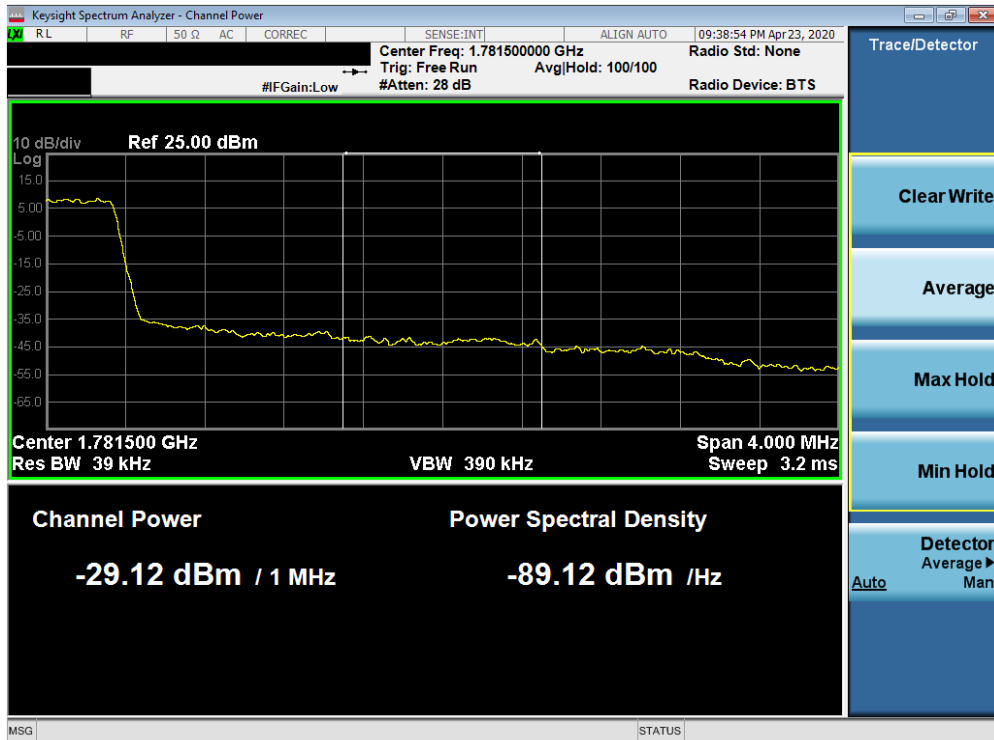


Plot 7-350. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 201 of 443 |

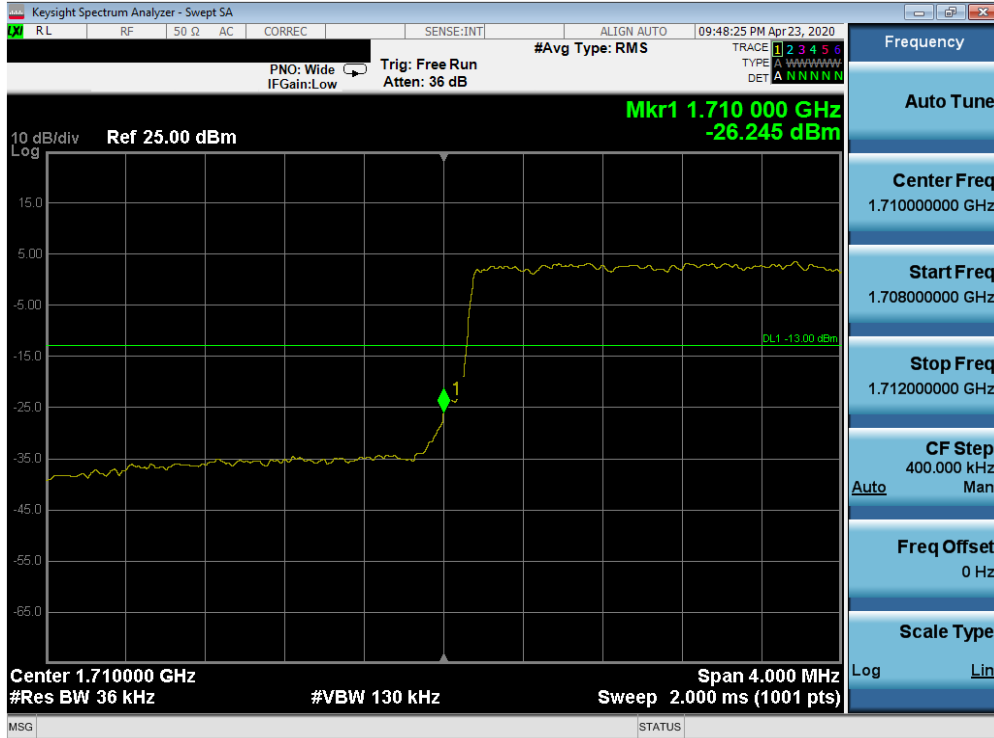


Plot 7-351. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

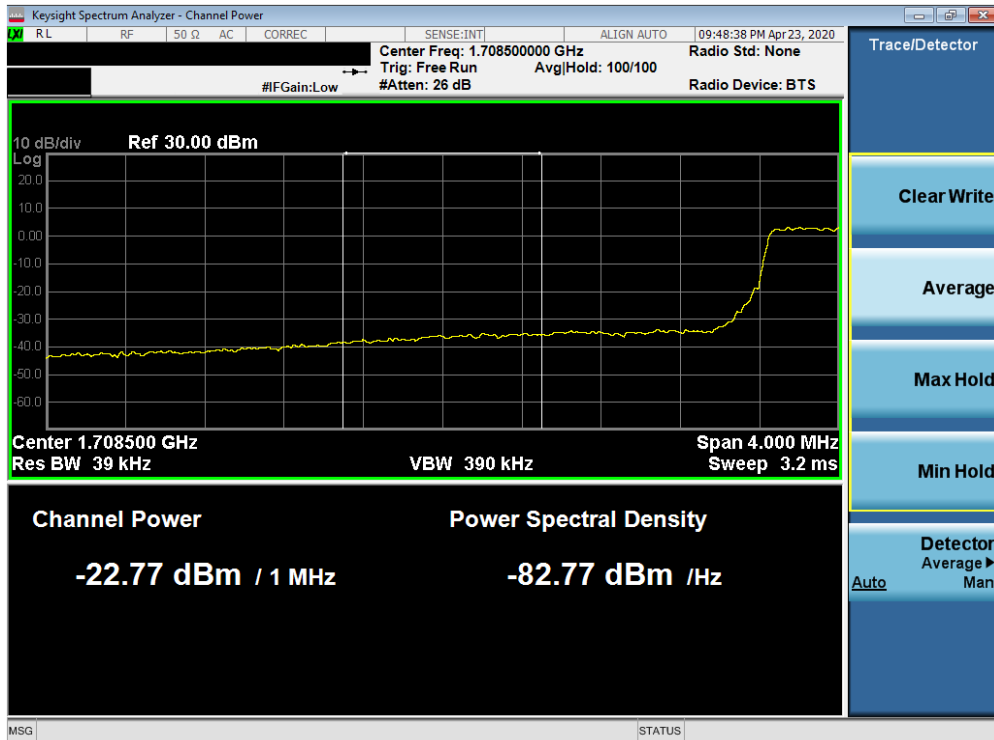


Plot 7-352. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 202 of 443 |

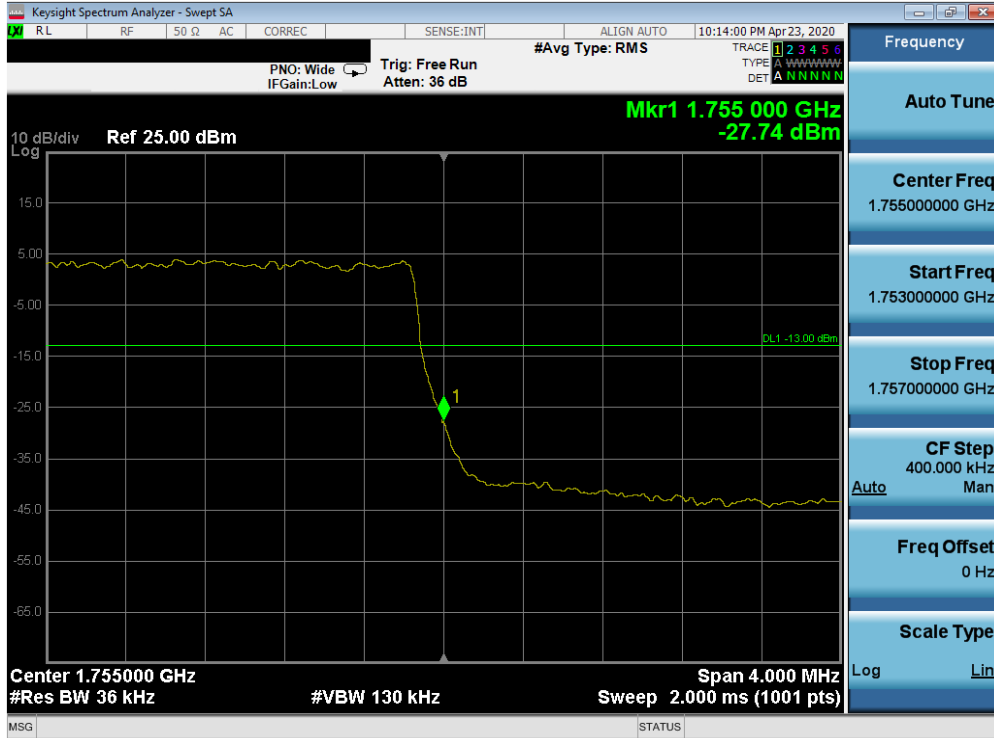


Plot 7-353. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

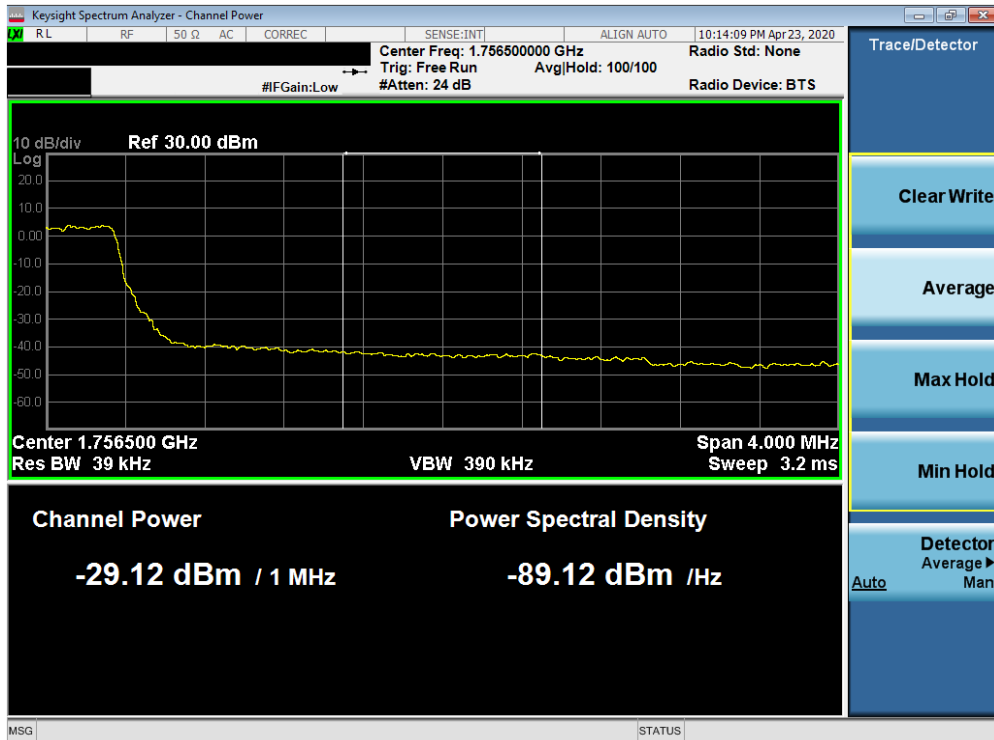


Plot 7-354. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 203 of 443 |

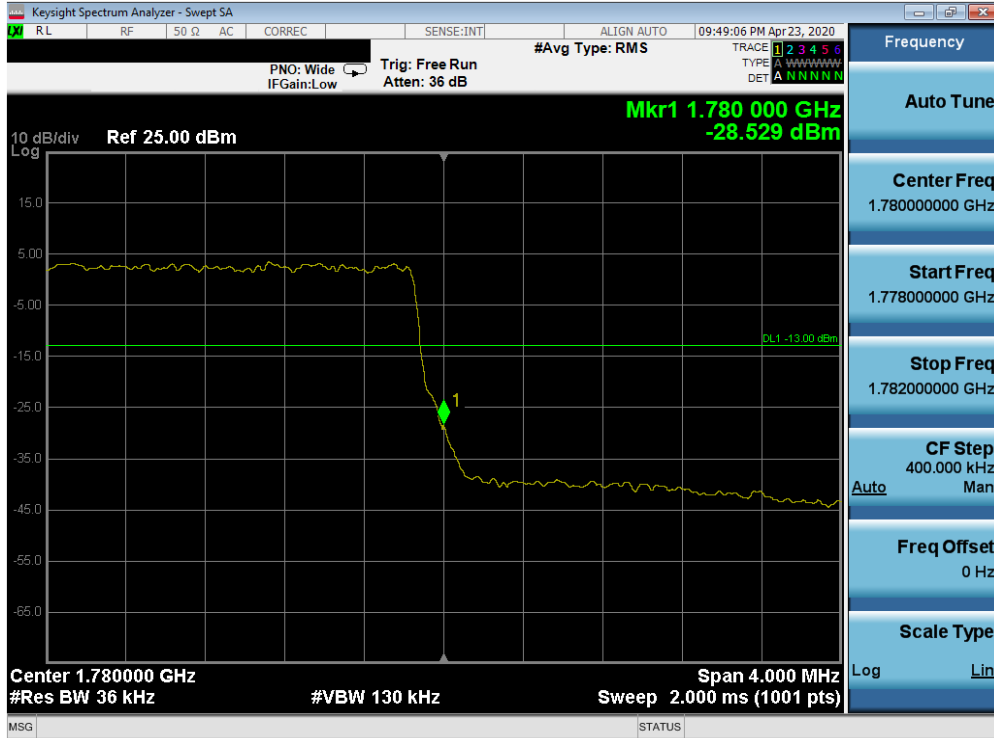


Plot 7-355. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

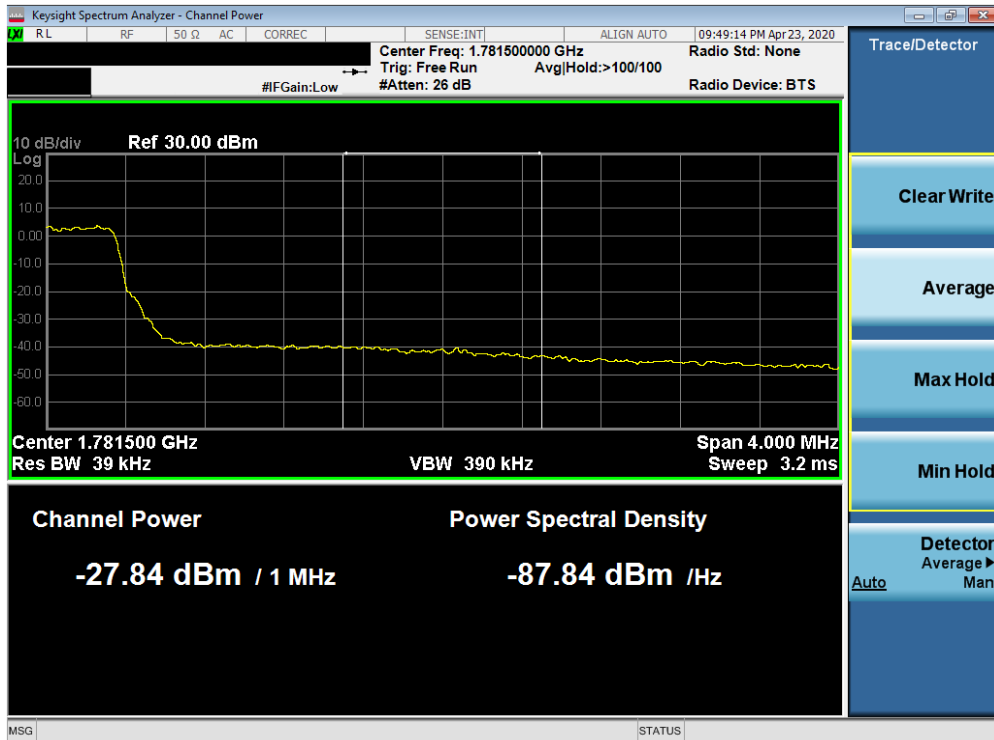


Plot 7-356. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 204 of 443 |

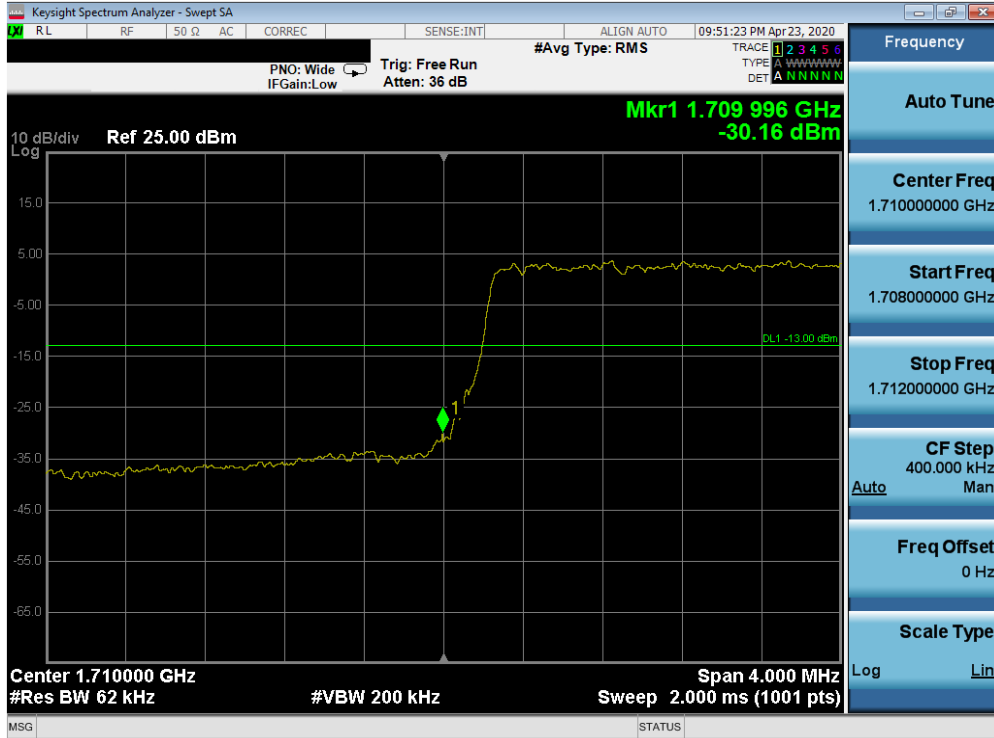


Plot 7-357. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

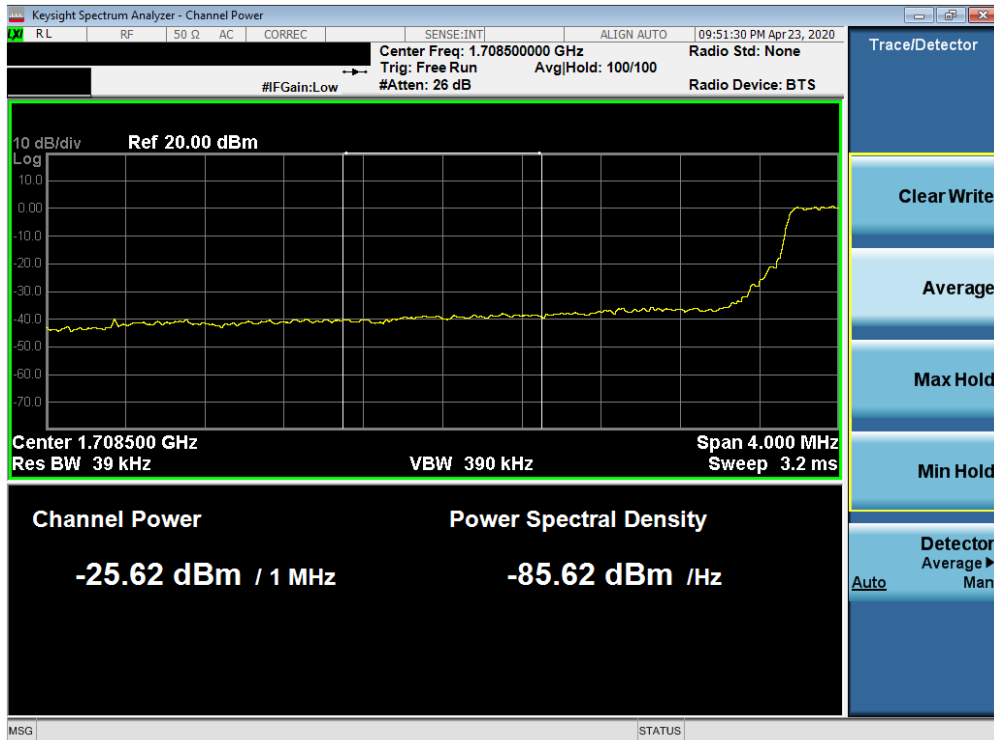


Plot 7-358. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 205 of 443 |



Plot 7-359. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

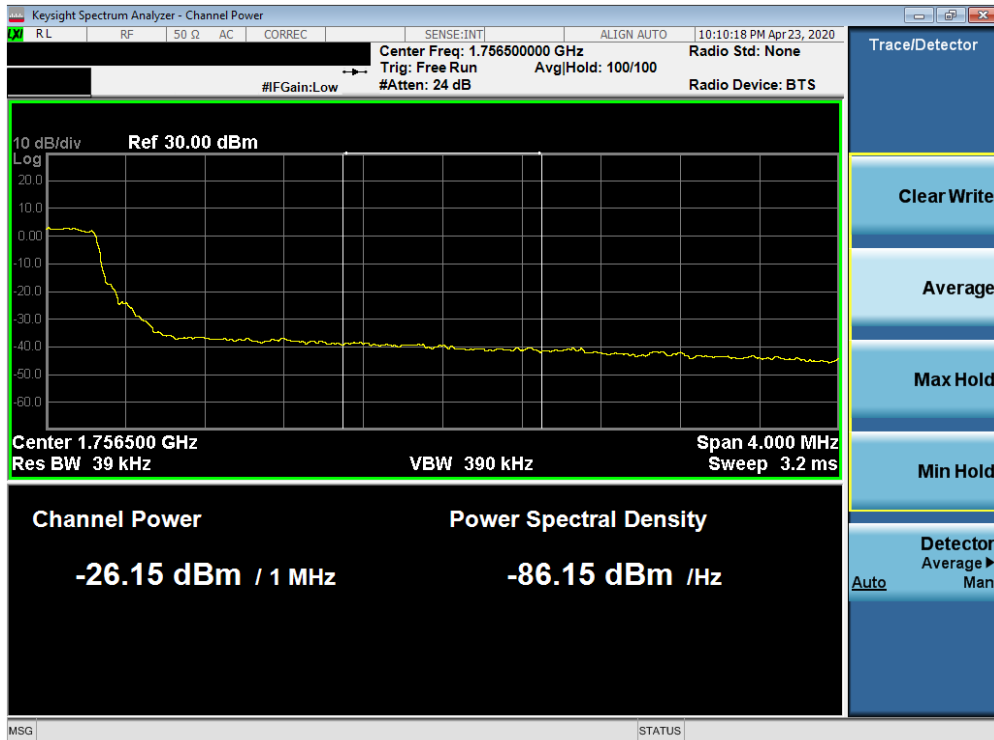


Plot 7-360. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 206 of 443 |

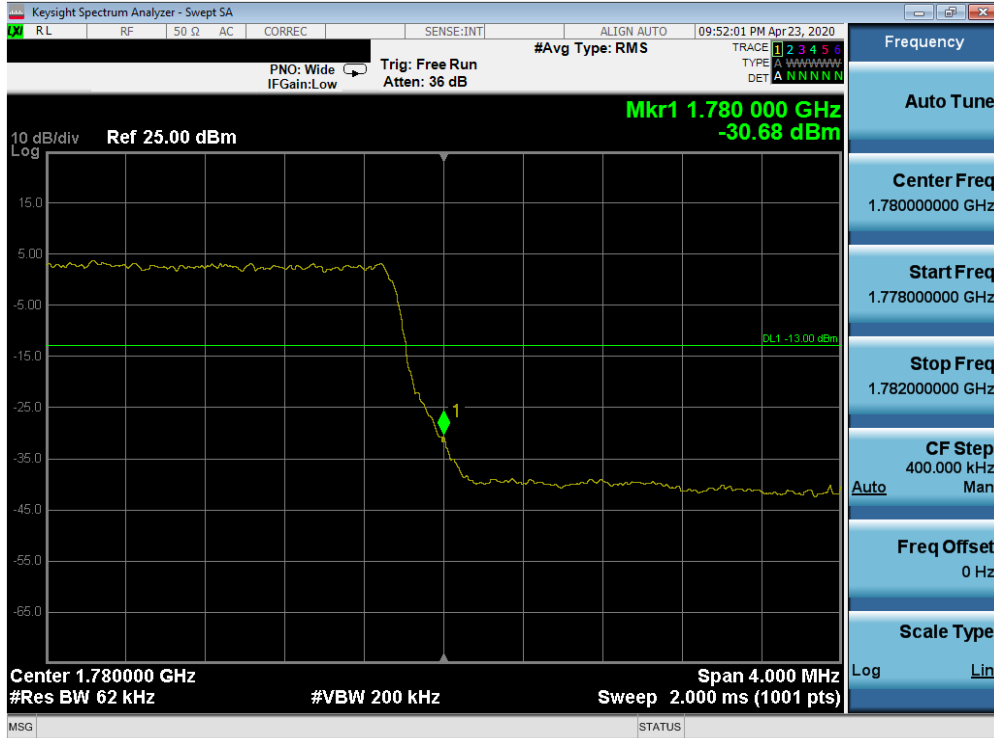


Plot 7-361. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

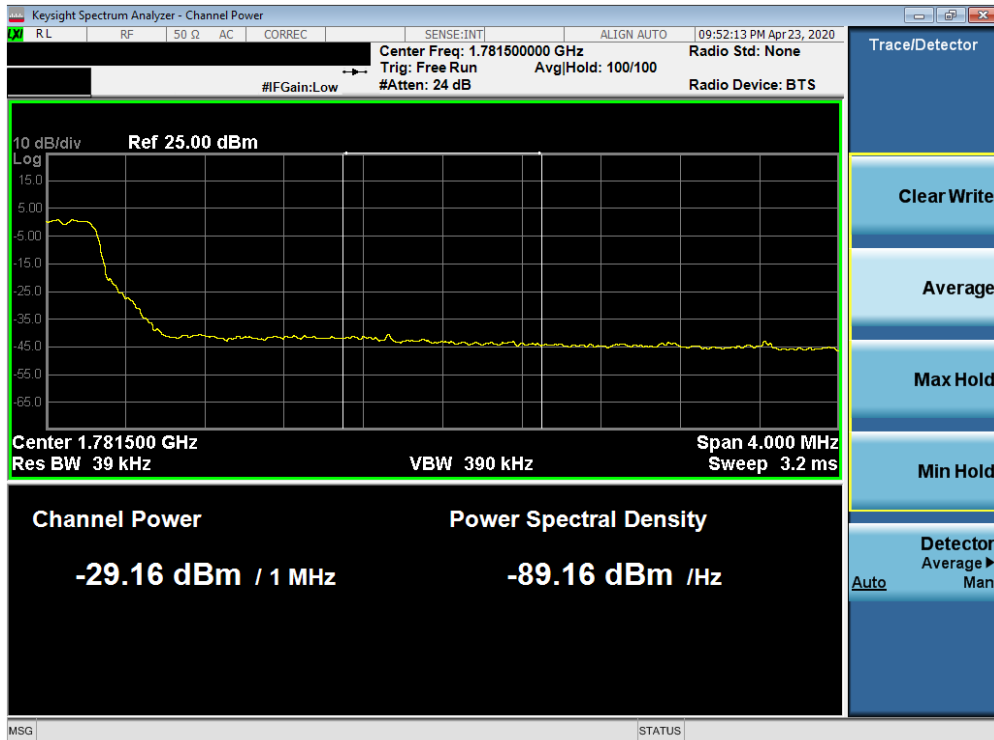


Plot 7-362. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 207 of 443 |

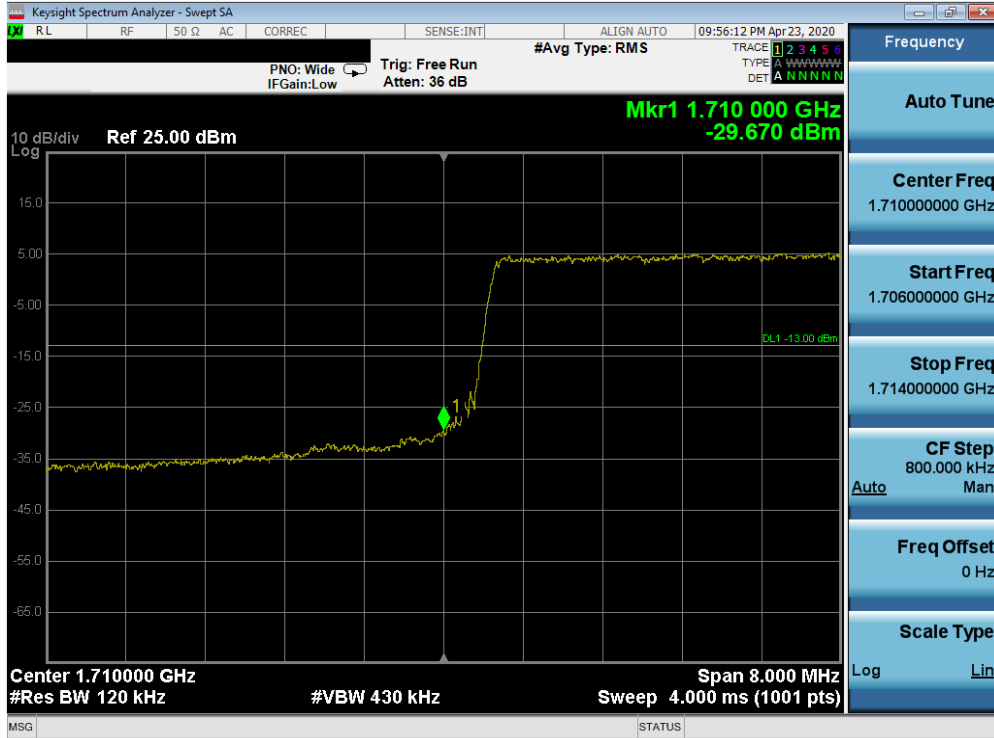


Plot 7-363. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

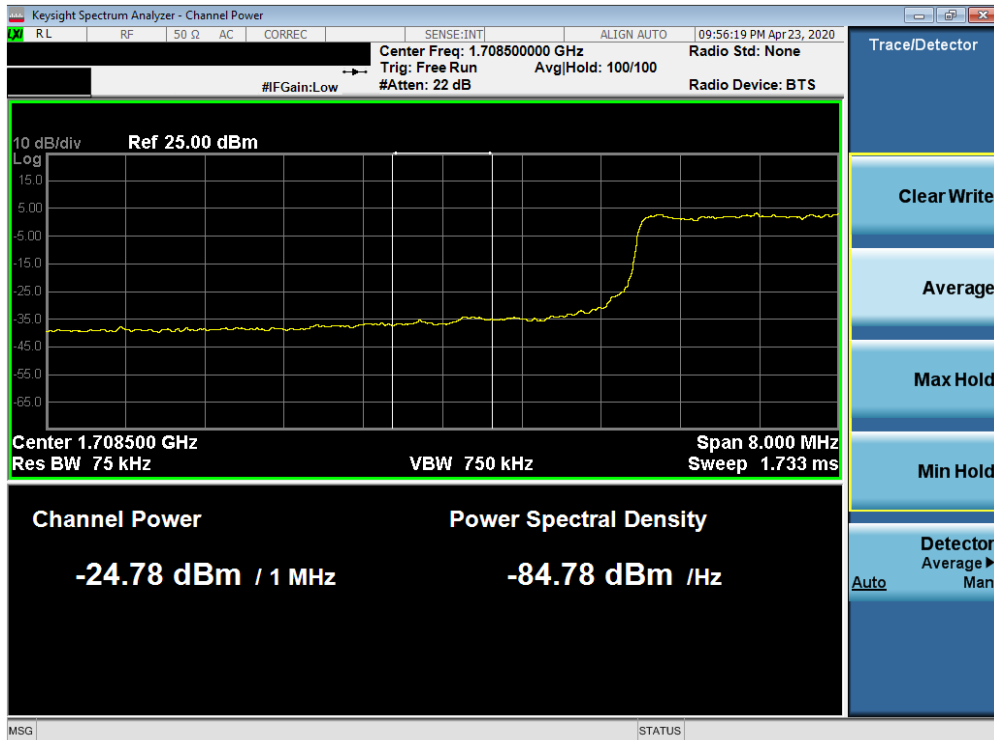


Plot 7-364. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 208 of 443 |



Plot 7-365. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

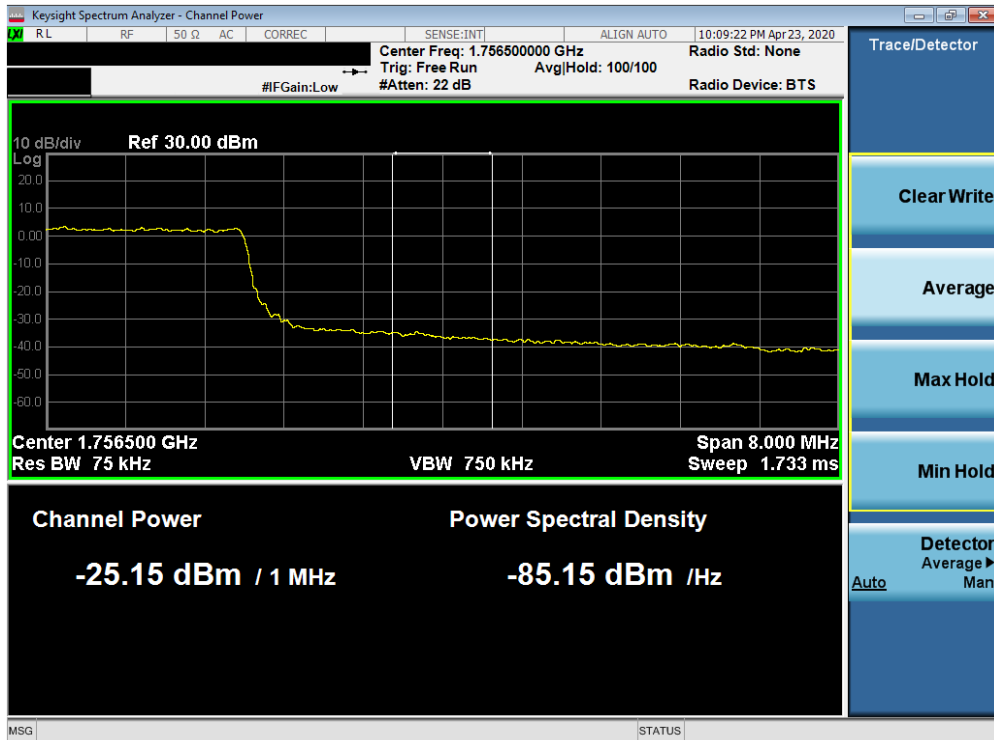


Plot 7-366. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 209 of 443 |



Plot 7-367. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

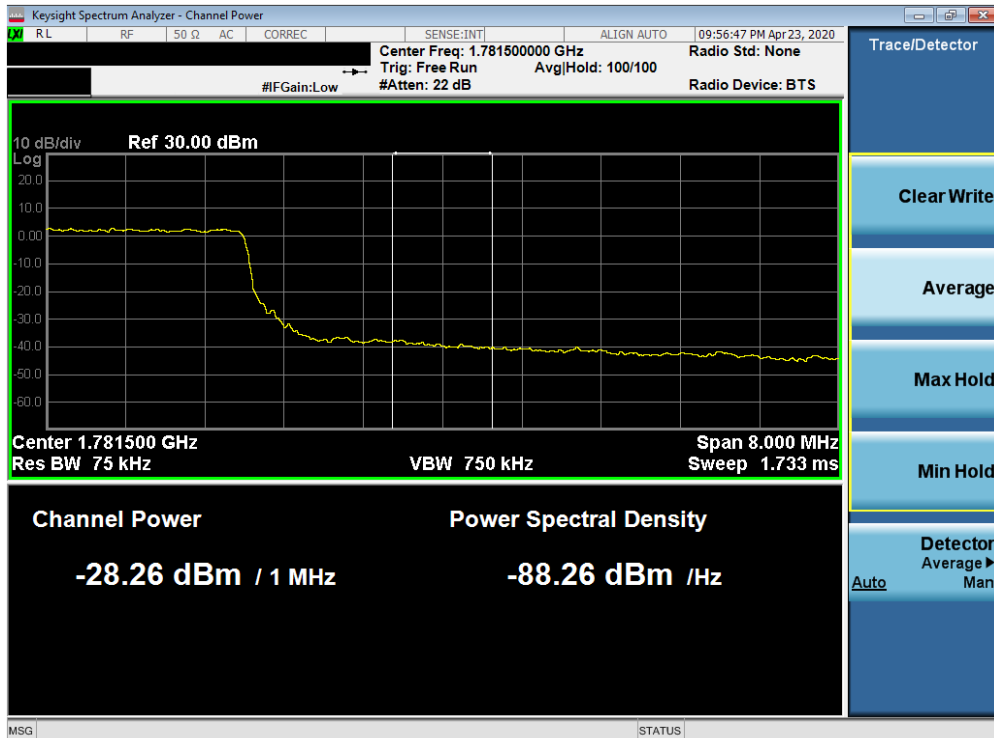


Plot 7-368. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 210 of 443 |

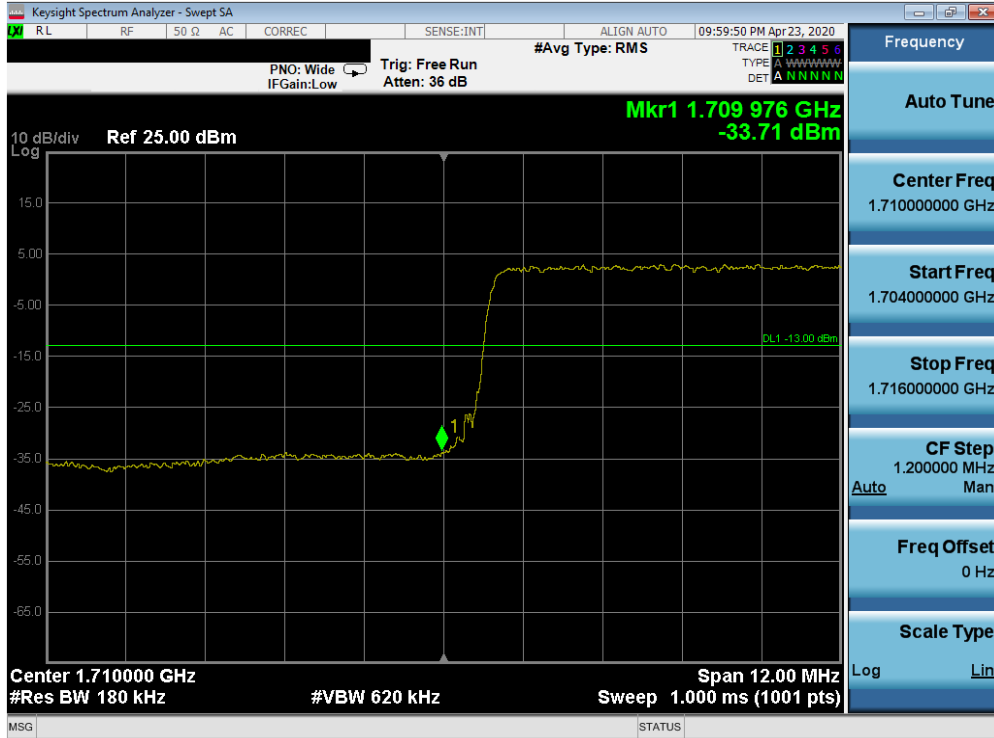


Plot 7-369. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

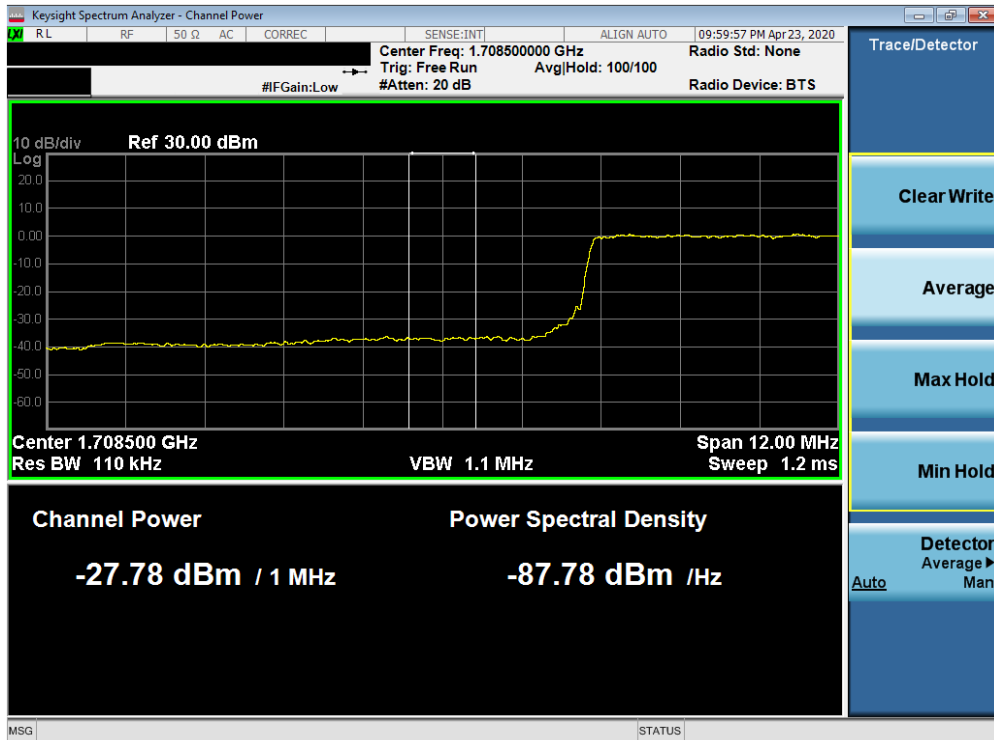


Plot 7-370. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 211 of 443 |



Plot 7-371. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

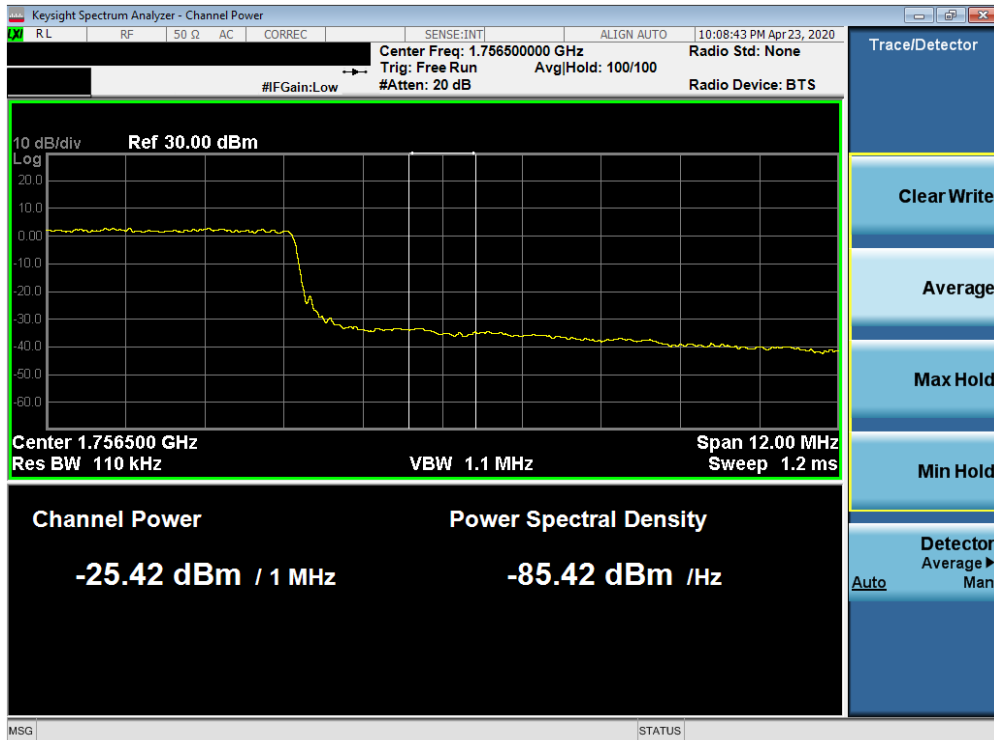


Plot 7-372. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 212 of 443 |

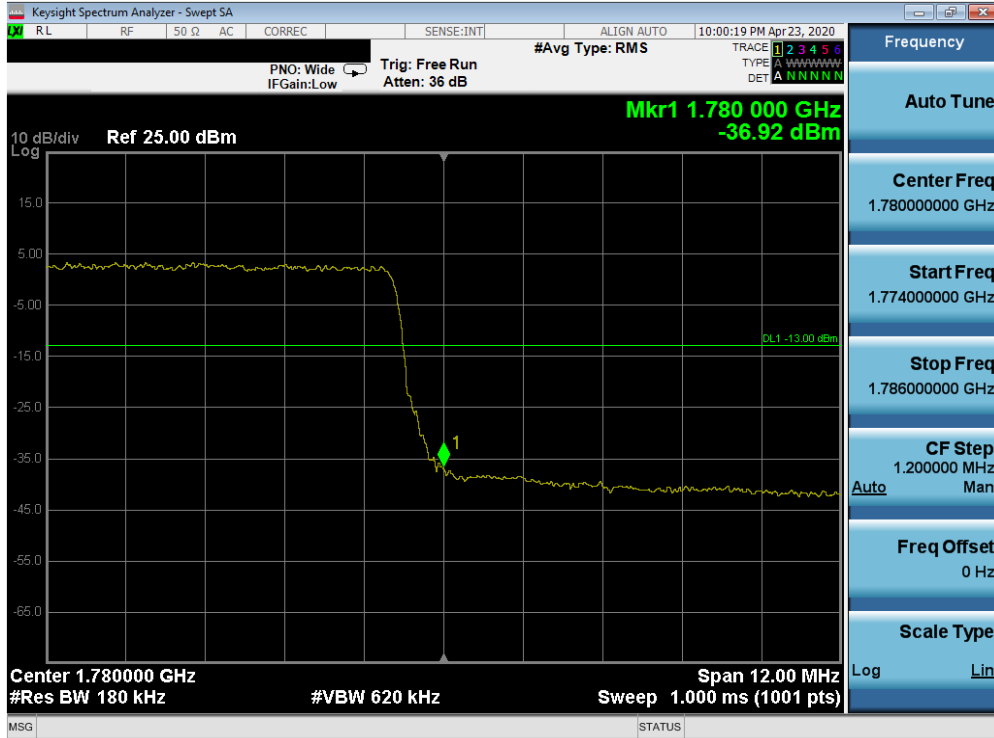


Plot 7-373. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

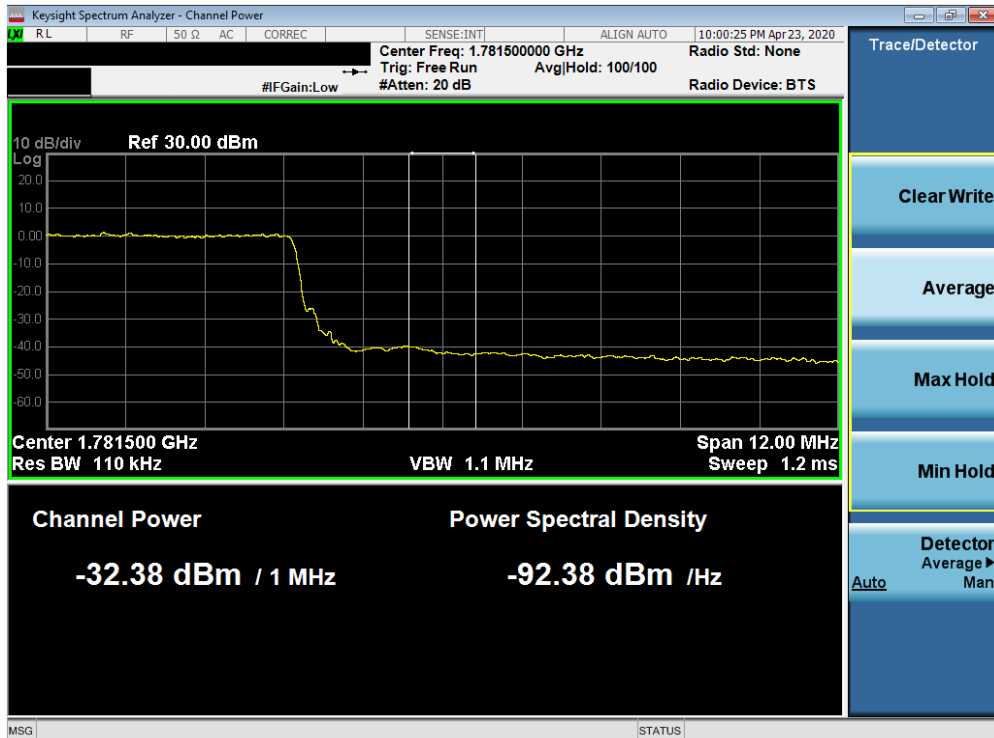


Plot 7-374. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 213 of 443 |

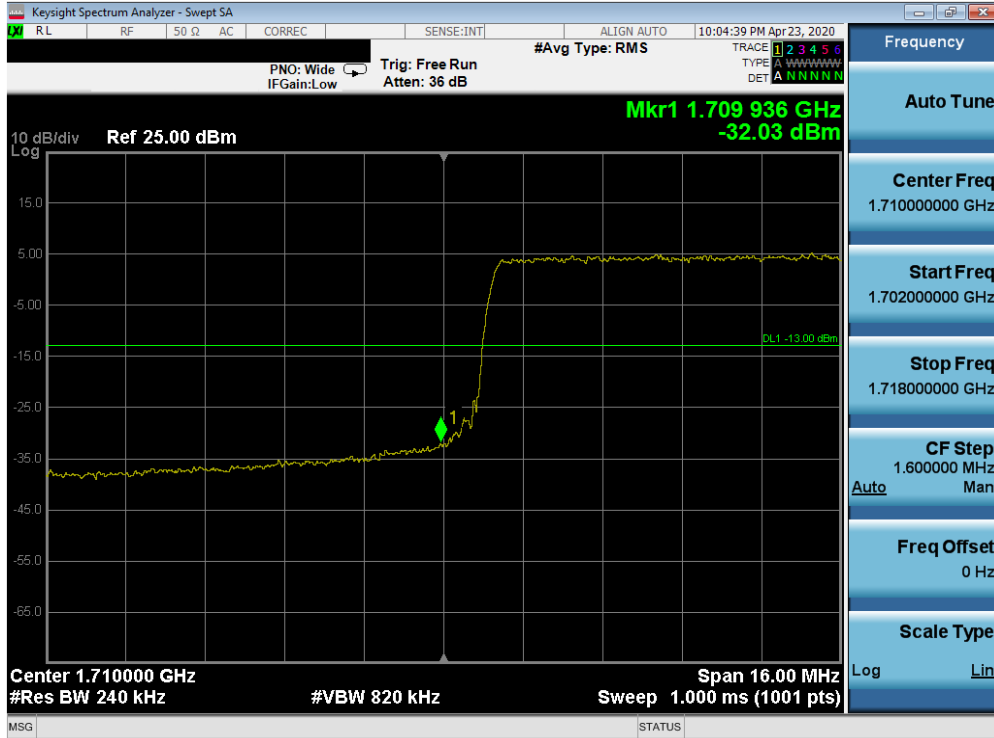


Plot 7-375. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

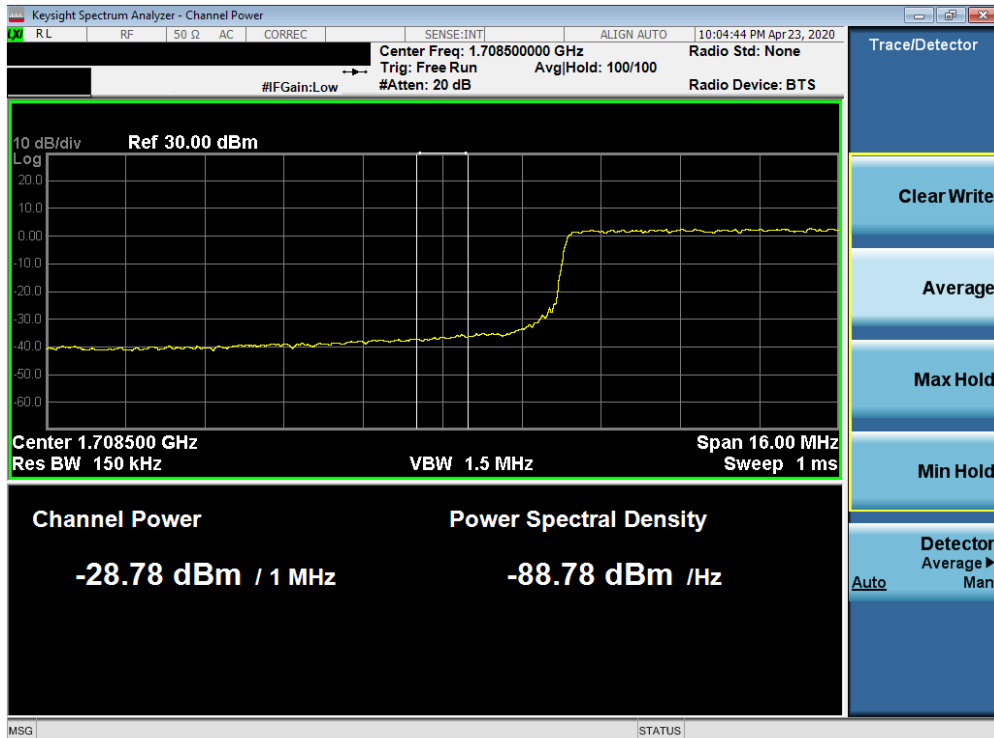


Plot 7-376. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 214 of 443 |

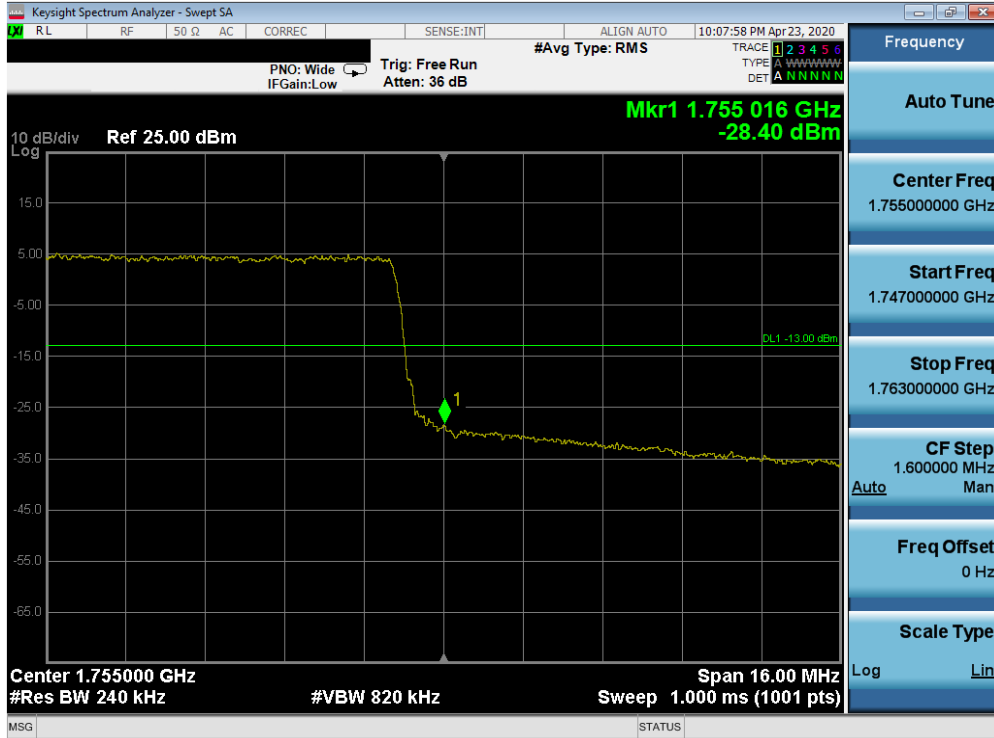


Plot 7-377. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

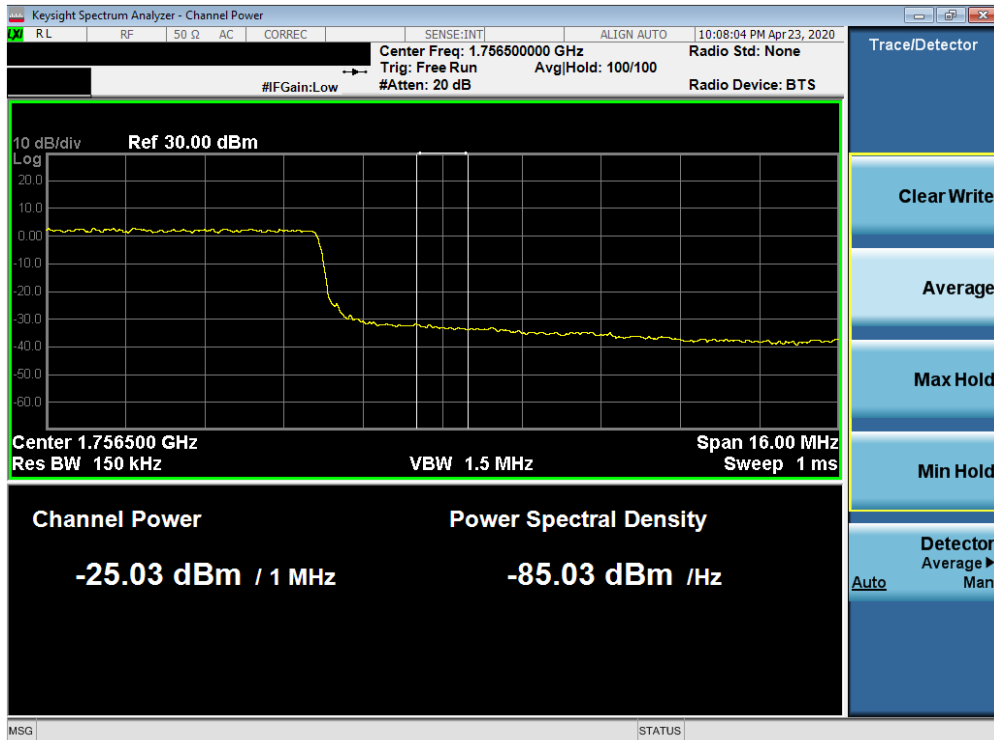


Plot 7-378. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 215 of 443 |

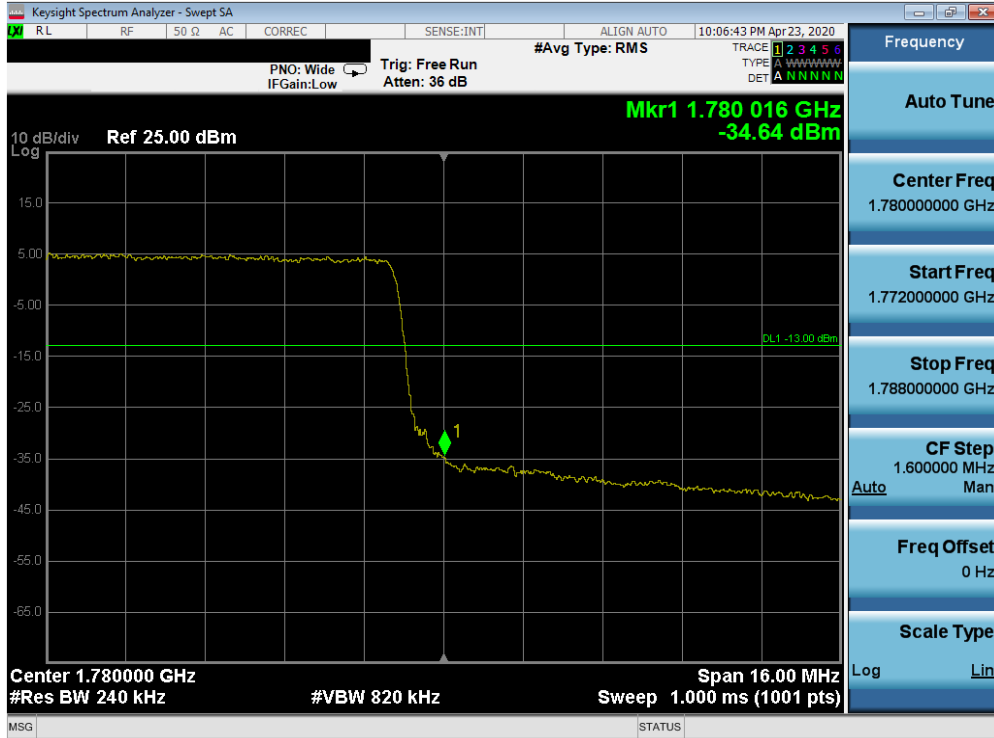


Plot 7-379. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

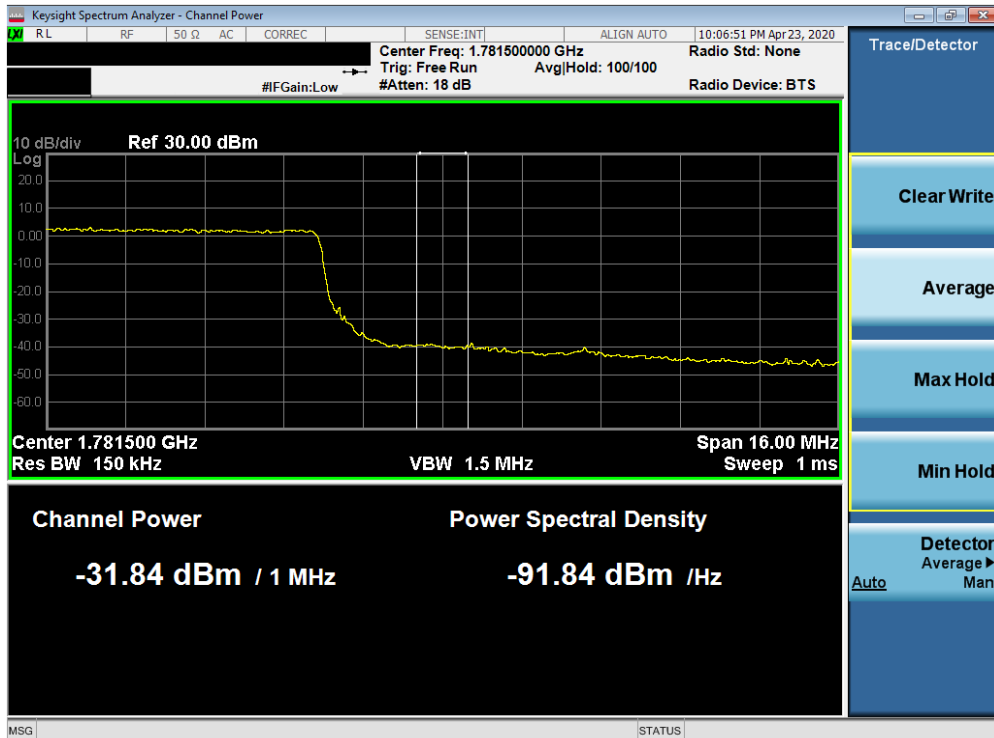


Plot 7-380. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 216 of 443 |



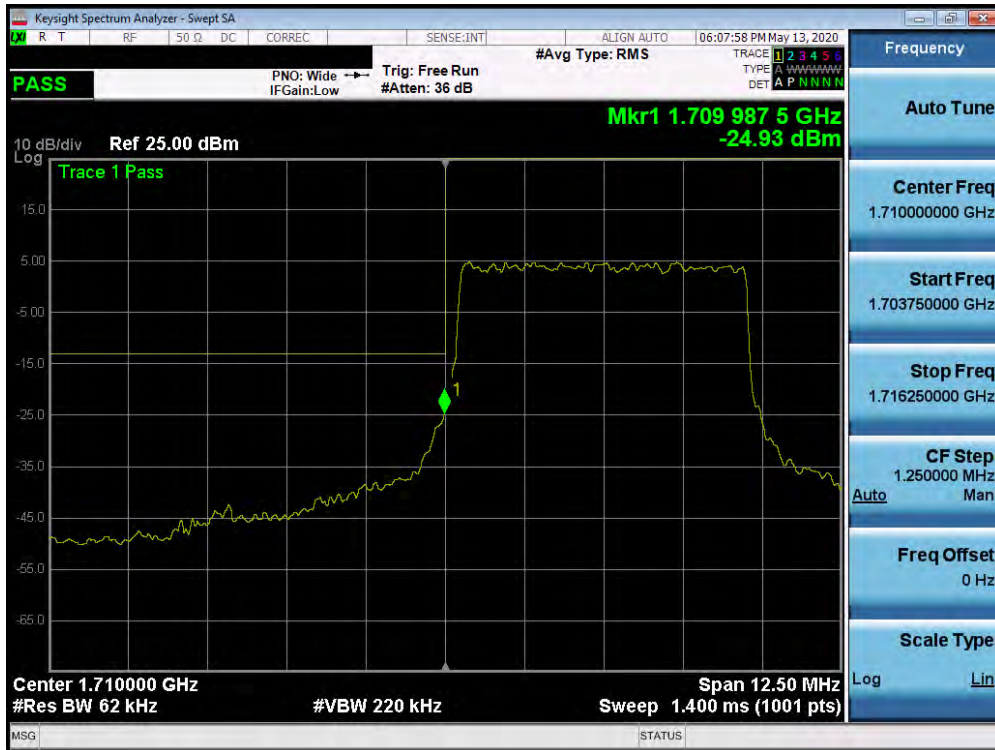
Plot 7-381. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



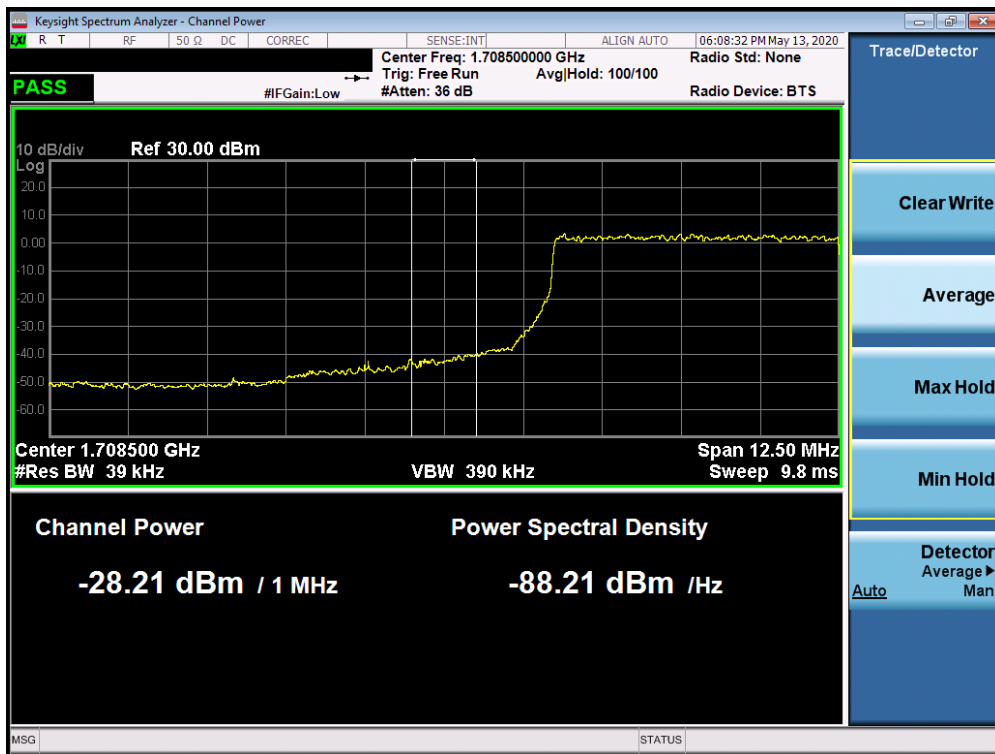
Plot 7-382. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 217 of 443 |

NR Band n66



Plot 7-383. Lower Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

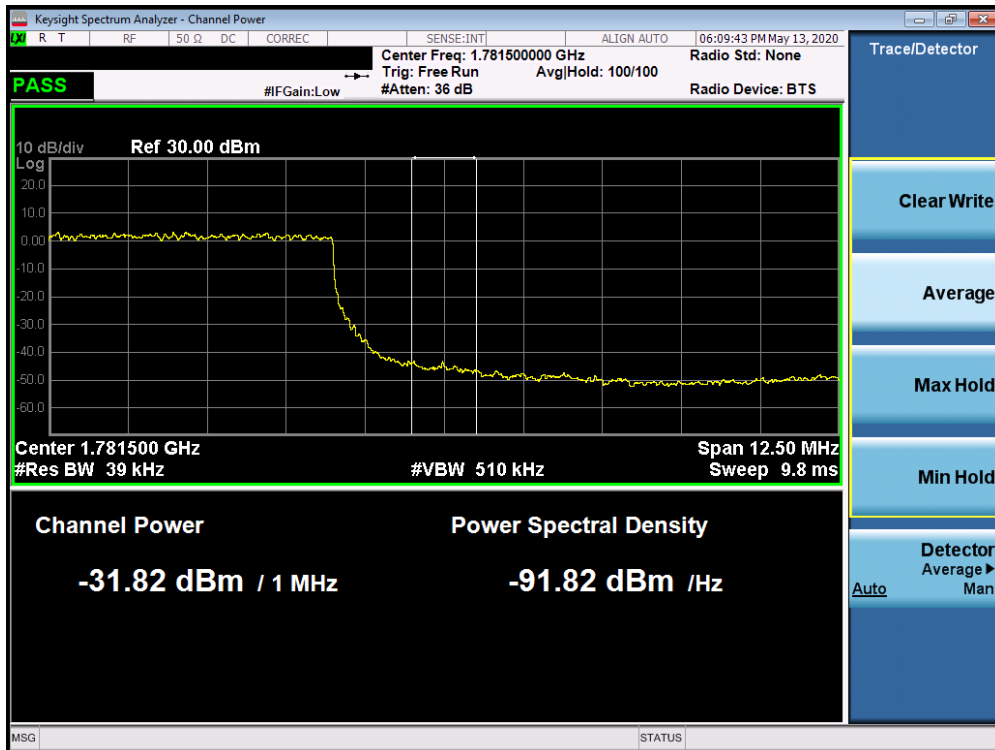


Plot 7-384. Lower Extended Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: A3LSMN986W |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 218 of 443 |

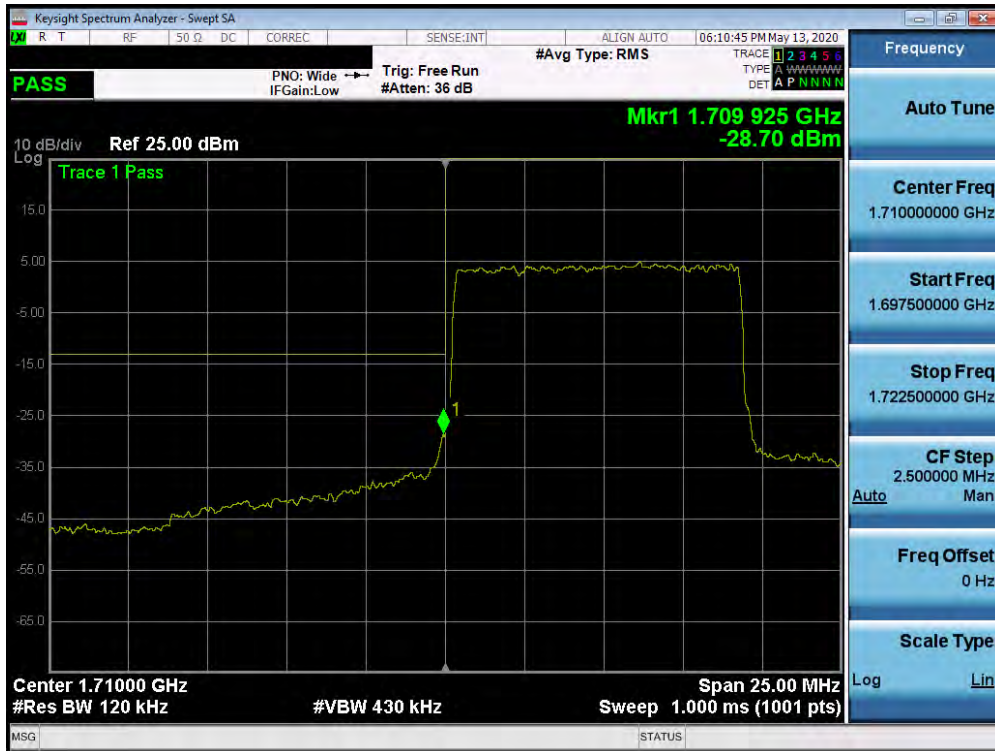


Plot 7-385. Upper Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

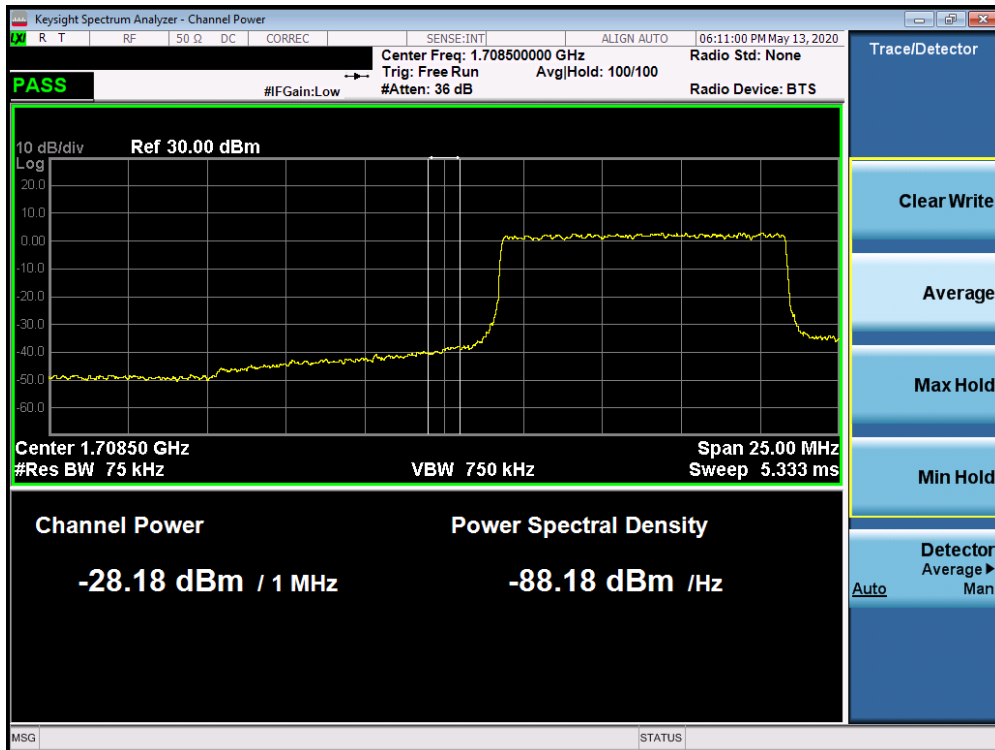


Plot 7-386. Upper Extended Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 219 of 443 |



Plot 7-387. Lower Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

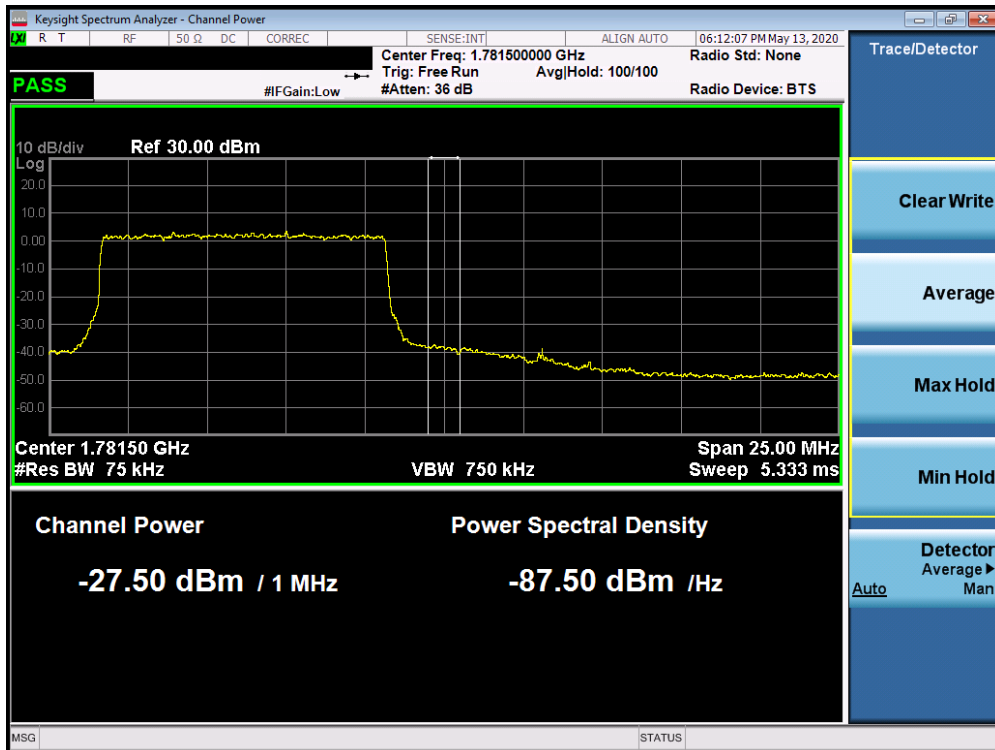


Plot 7-388. Lower Extended Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 220 of 443 |

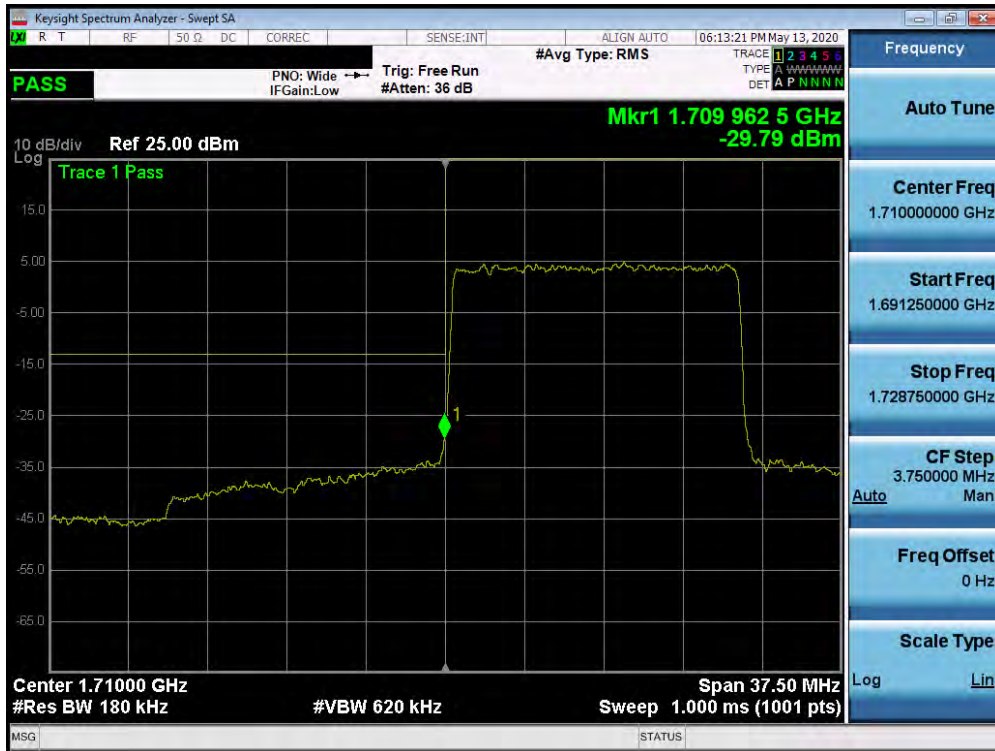


Plot 7-389. Upper Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

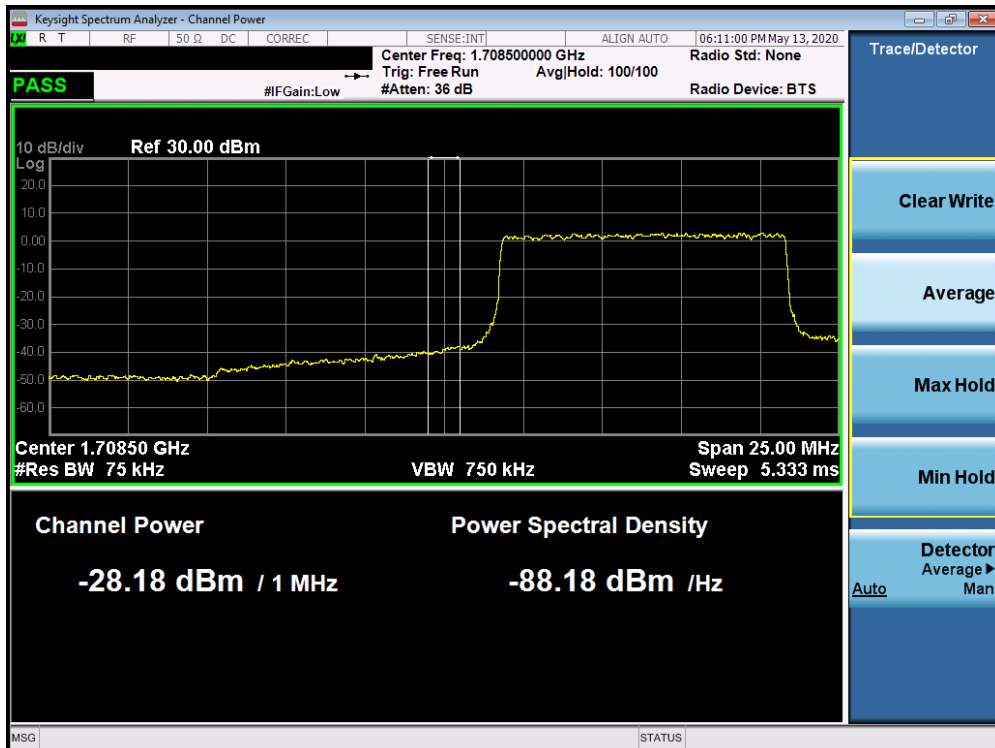


Plot 7-390. Upper Extended Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 221 of 443 |



Plot 7-391. Lower Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

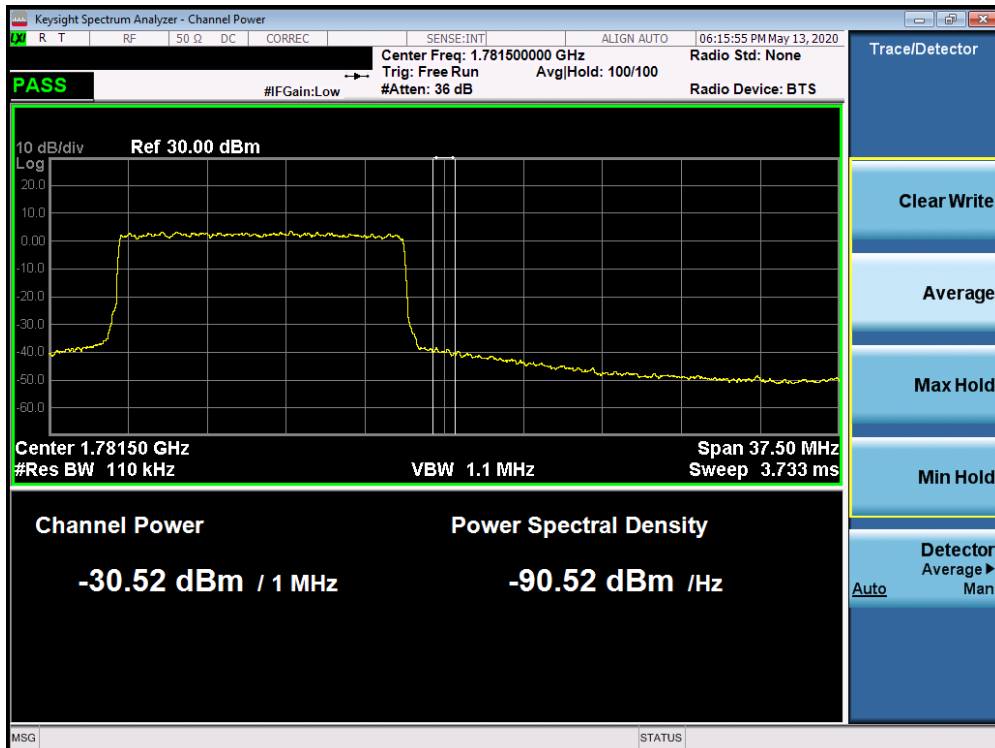


Plot 7-392. Lower Extended Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 222 of 443 |



Plot 7-393. Upper Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-394. Upper Extended Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSMN986W | PCTEST Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
| Test Report S/N: 1M2004170066-03.A3L | Test Dates: 4/17 - 6/22/2020 | EUT Type: Portable Handset | | Page 223 of 443 |