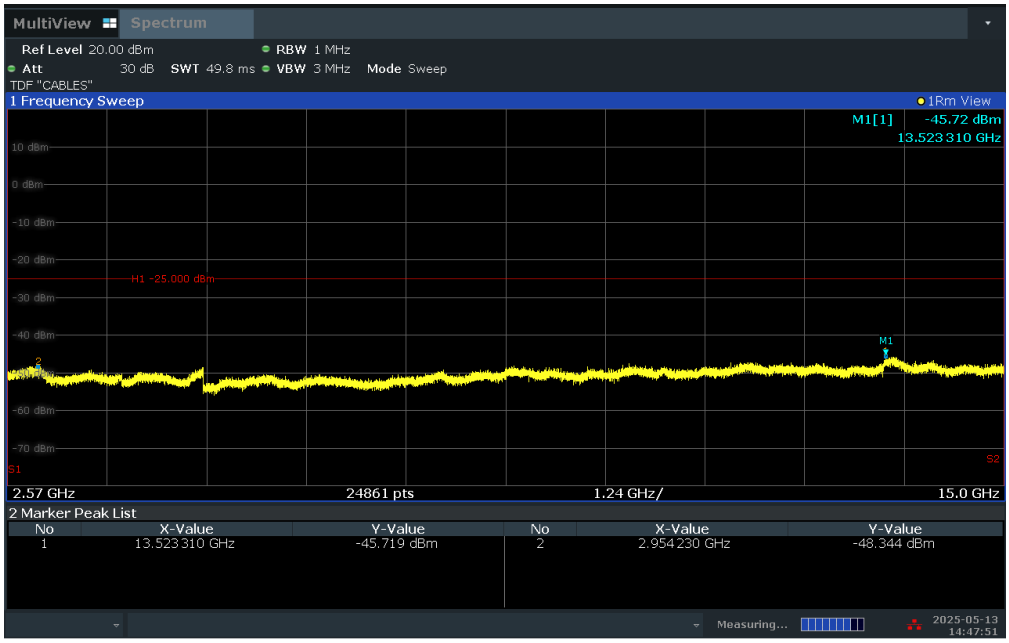
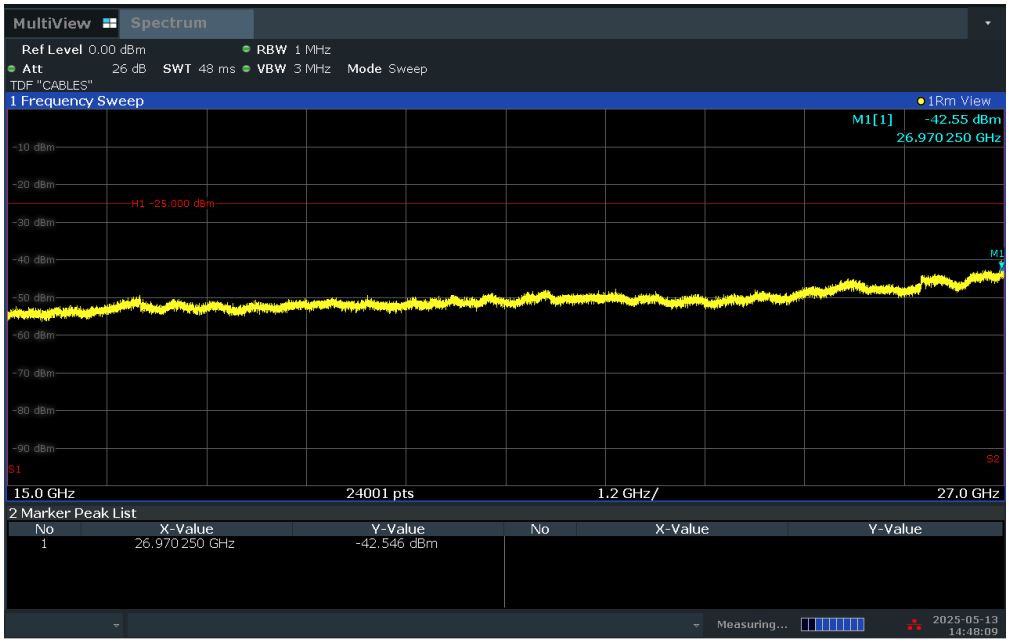


02:47:51 PM 05/13/2025

Plot 7-187. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



02:48:09 PM 05/13/2025

Plot 7-188. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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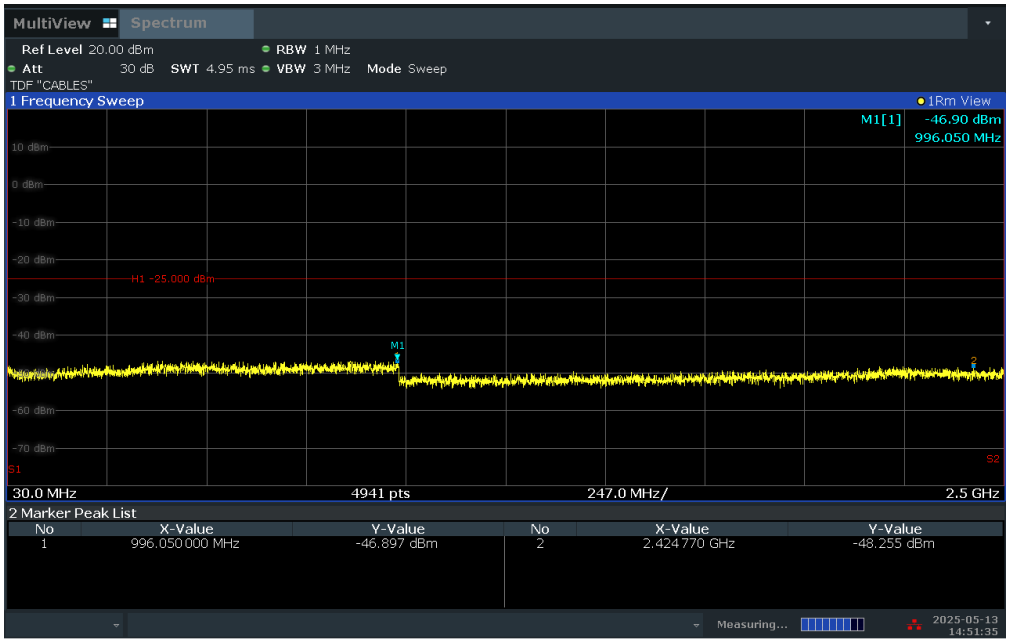
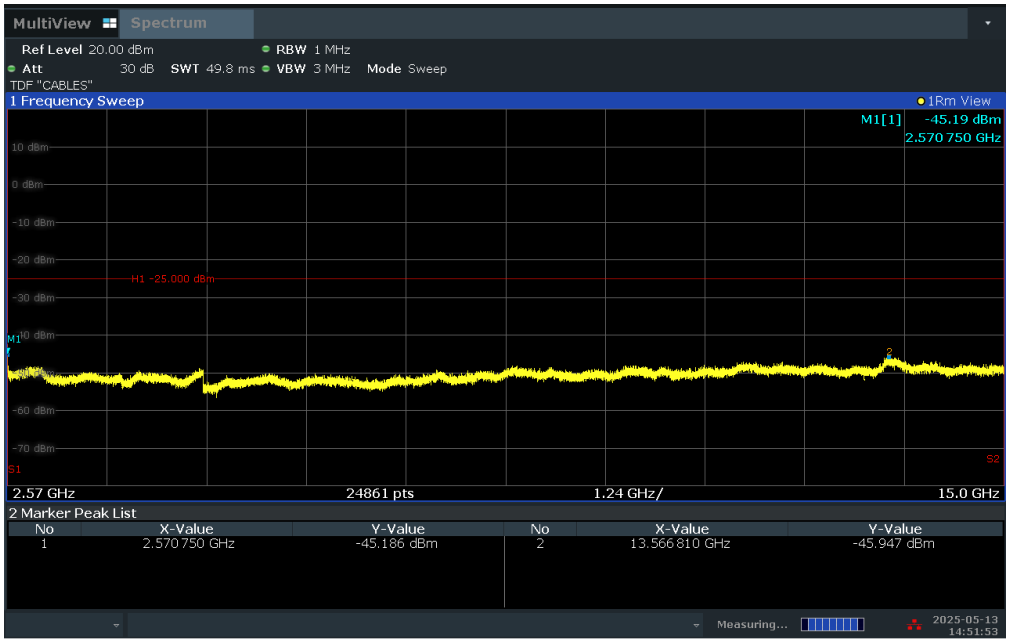


02:51:35 PM 05/13/2025

Plot 7-189. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



02:51:54 PM 05/13/2025

Plot 7-190. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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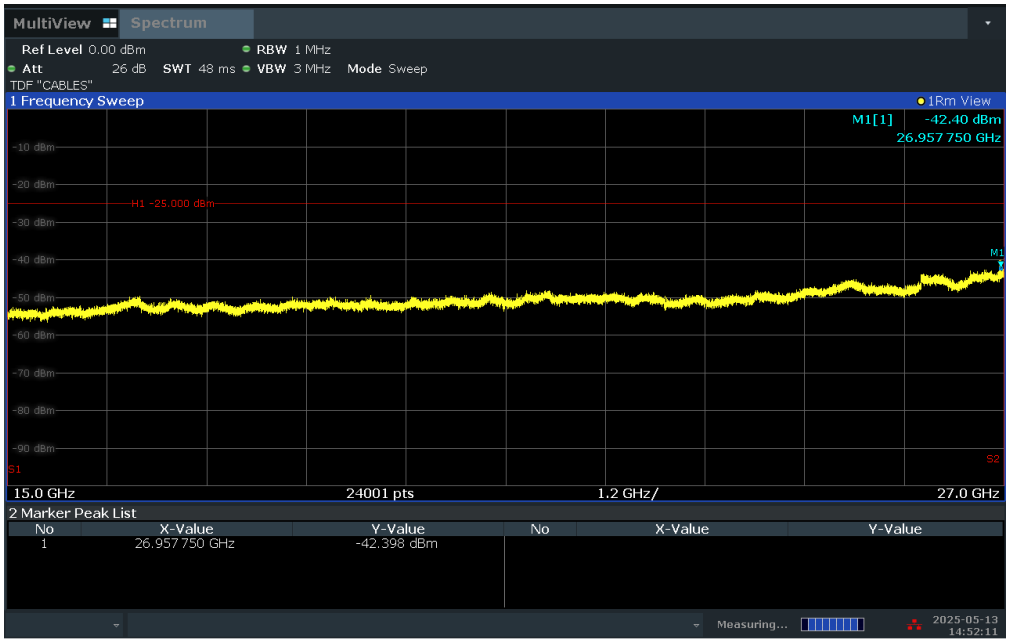

02:52:12 PM 05/13/2025

Plot 7-191. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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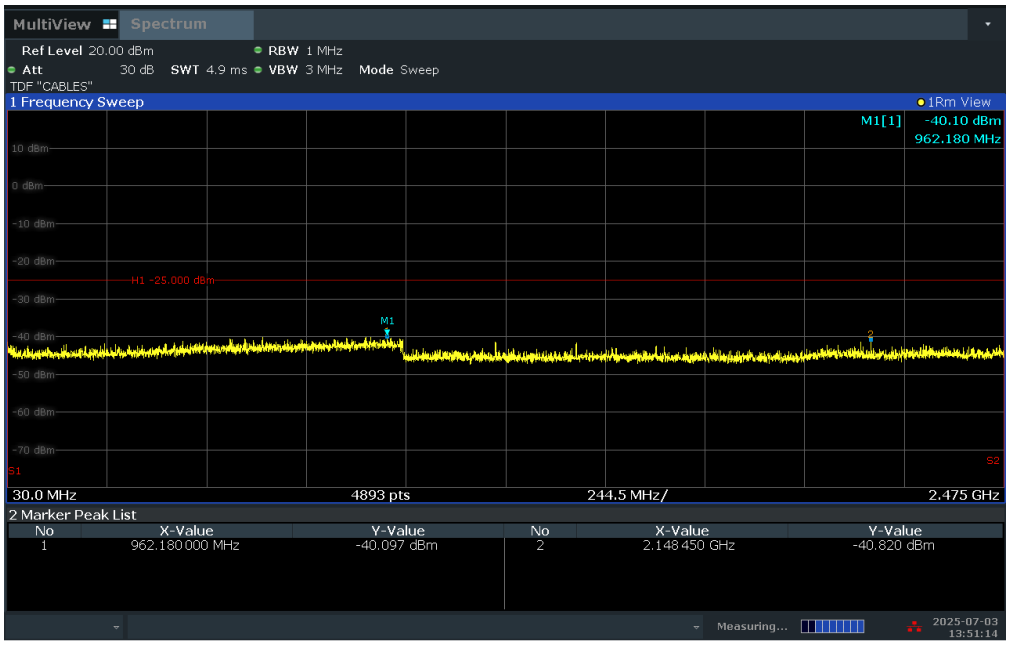
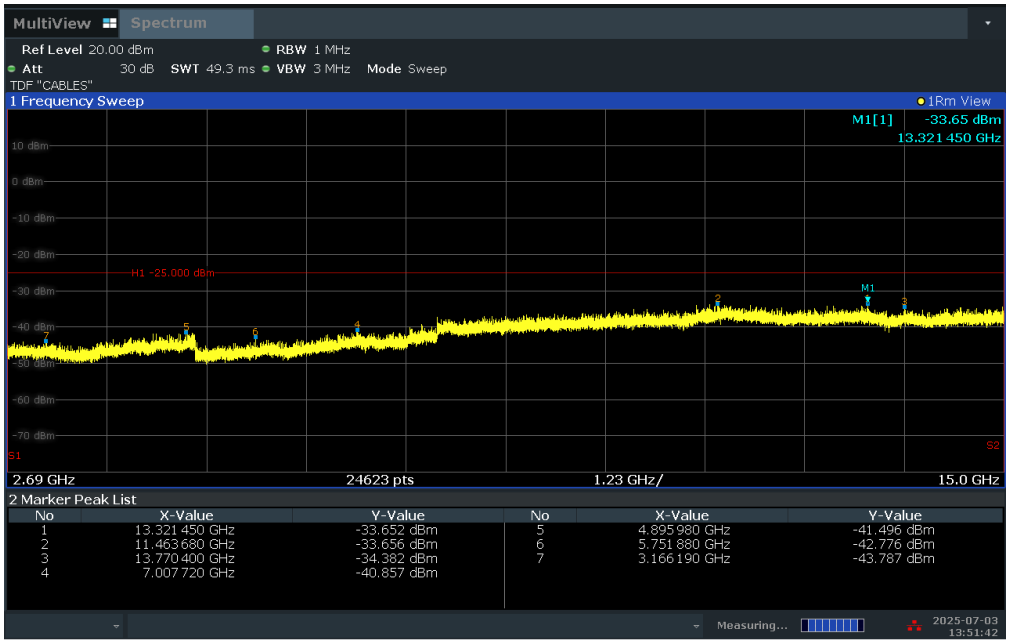
LTE Band 41



01:51:14 PM 07/03/2025

Plot 7-192. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



01:51:42 PM 07/03/2025

Plot 7-193. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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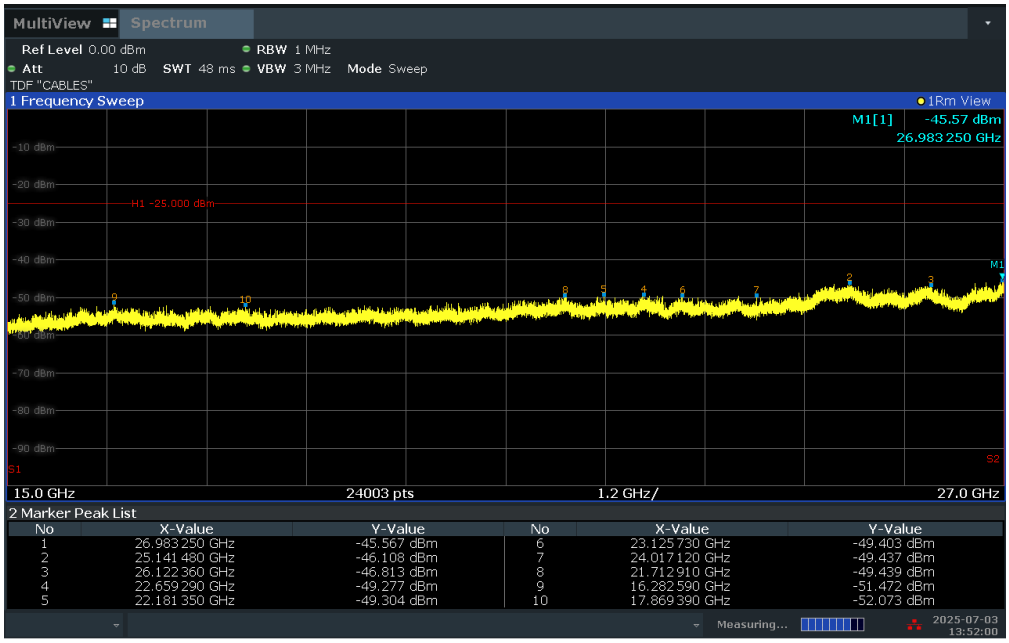

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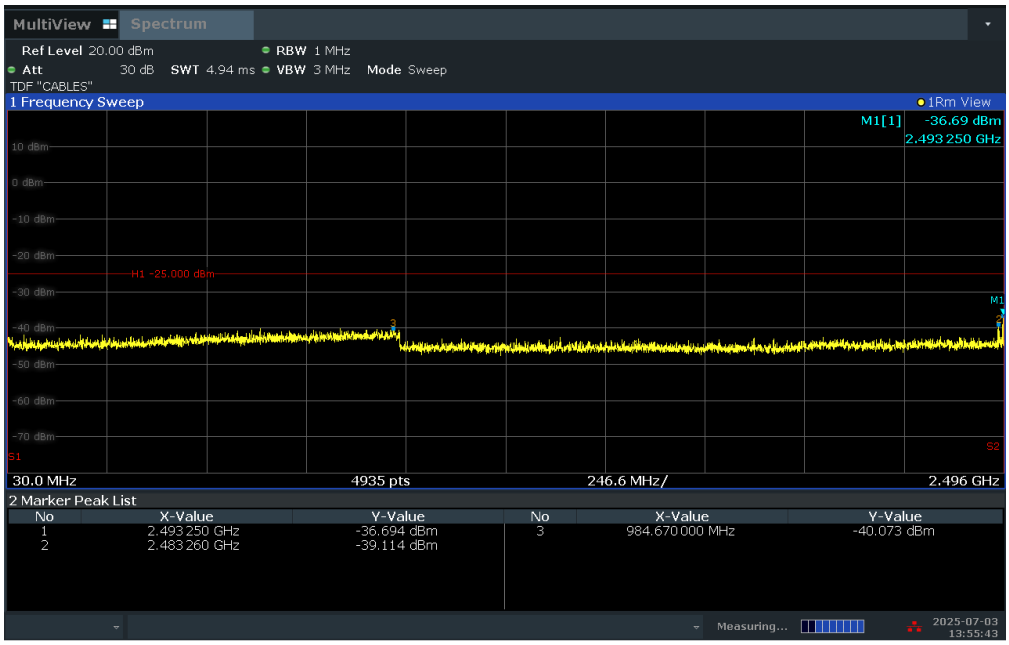
Plot 7-194. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



01:55:43 PM 07/03/2025

Plot 7-195. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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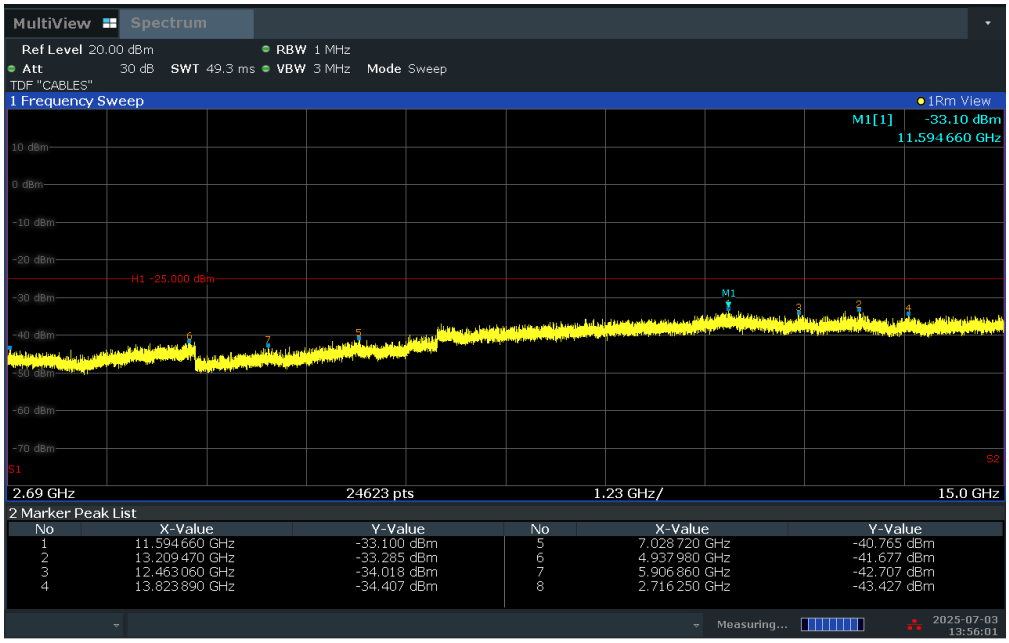
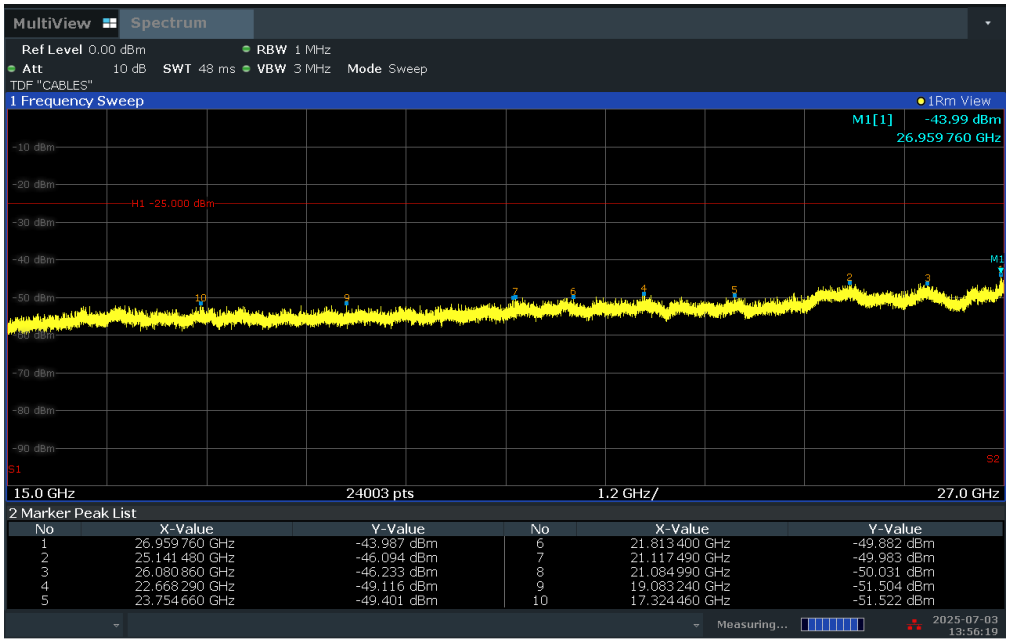


01:56:02 PM 07/03/2025

Plot 7-196. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



01:56:20 PM 07/03/2025

Plot 7-197. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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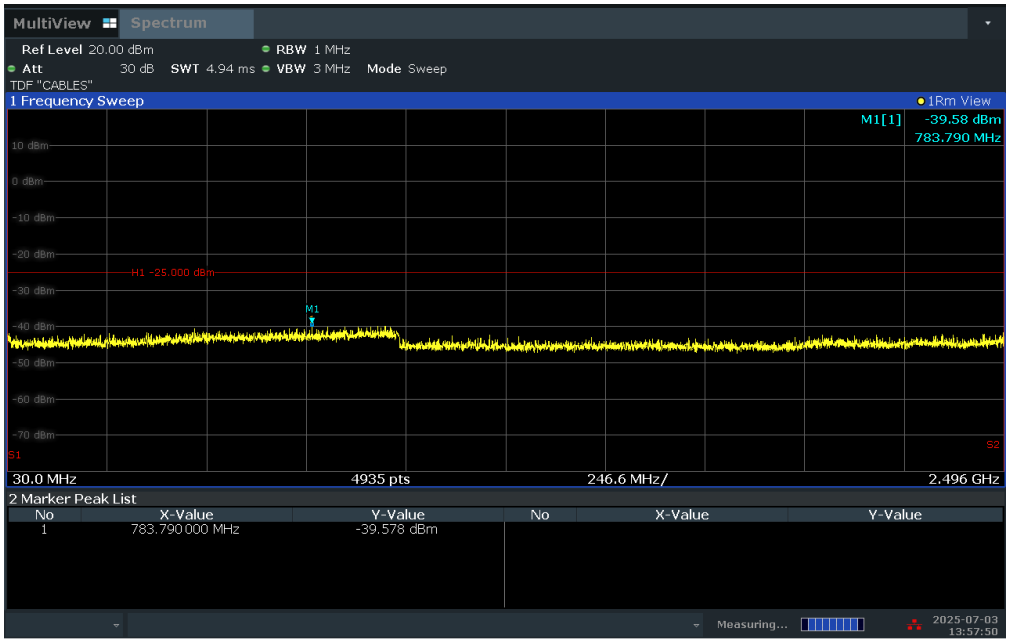
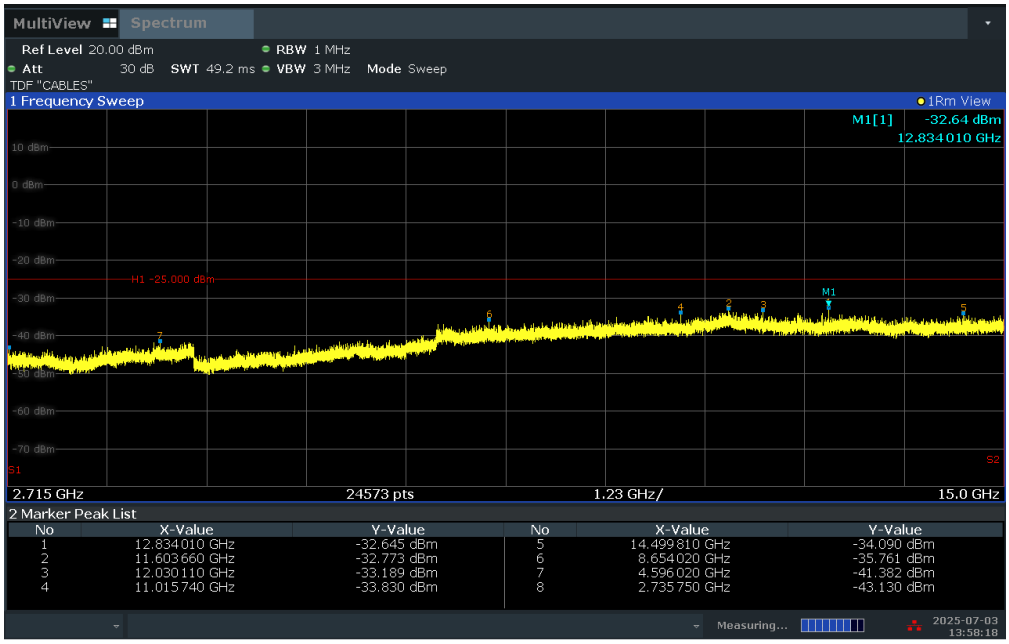


01:57:51 PM 07/03/2025

Plot 7-198. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



01:58:19 PM 07/03/2025

Plot 7-199. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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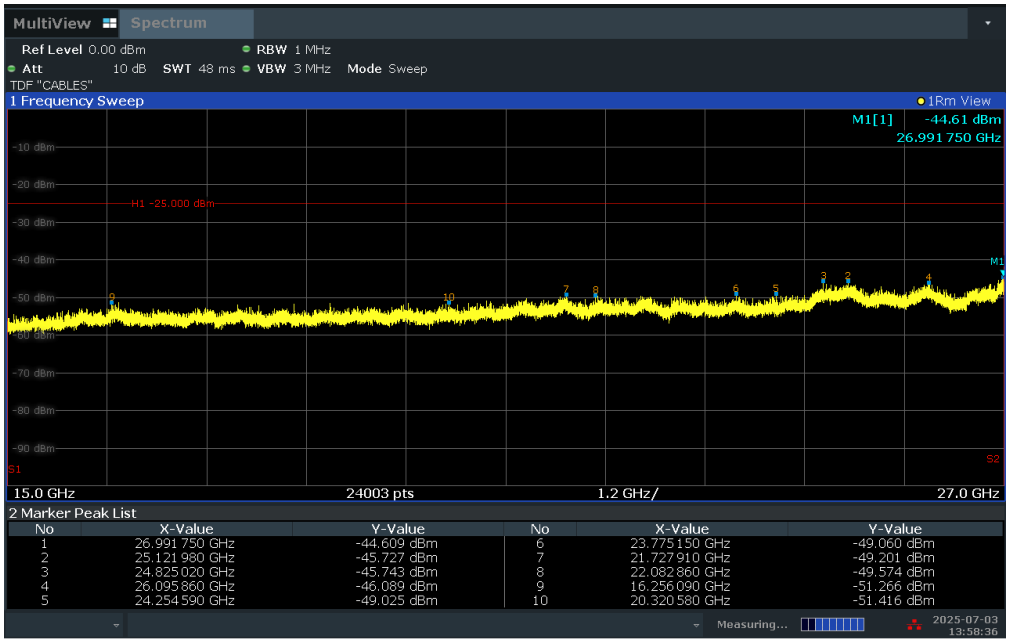

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Plot 7-200. Conducted Spurious Plot (LTE Band 41 - 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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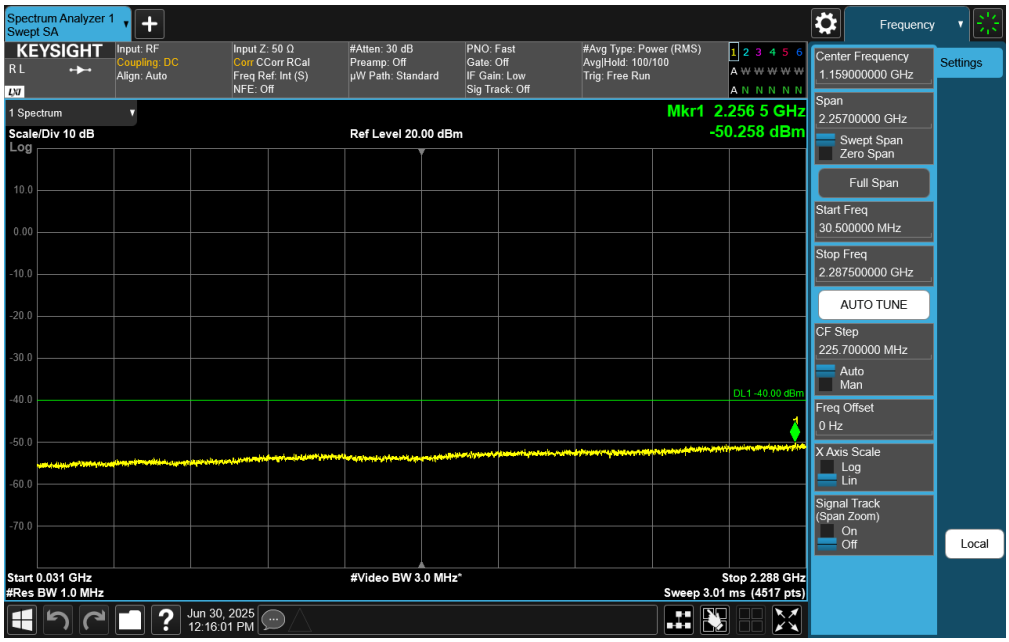
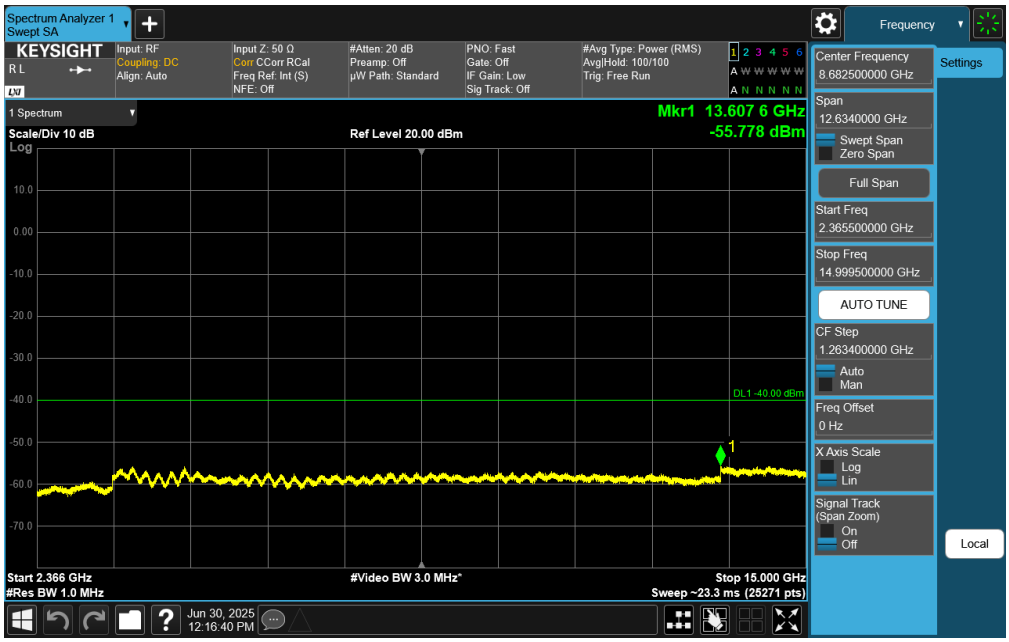
NR Band n30



Plot 7-201. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-202. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)

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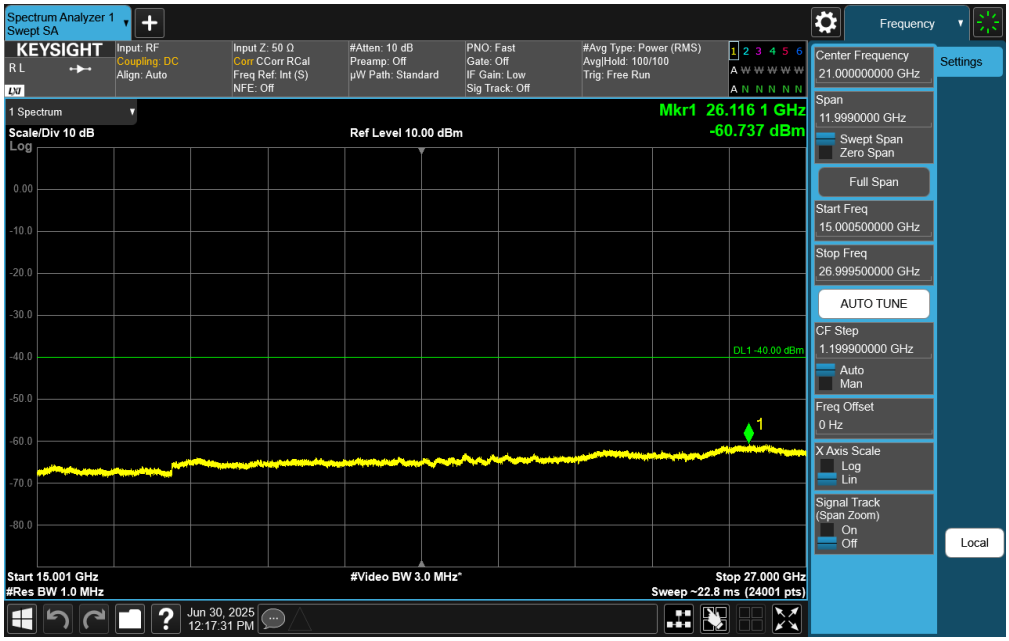
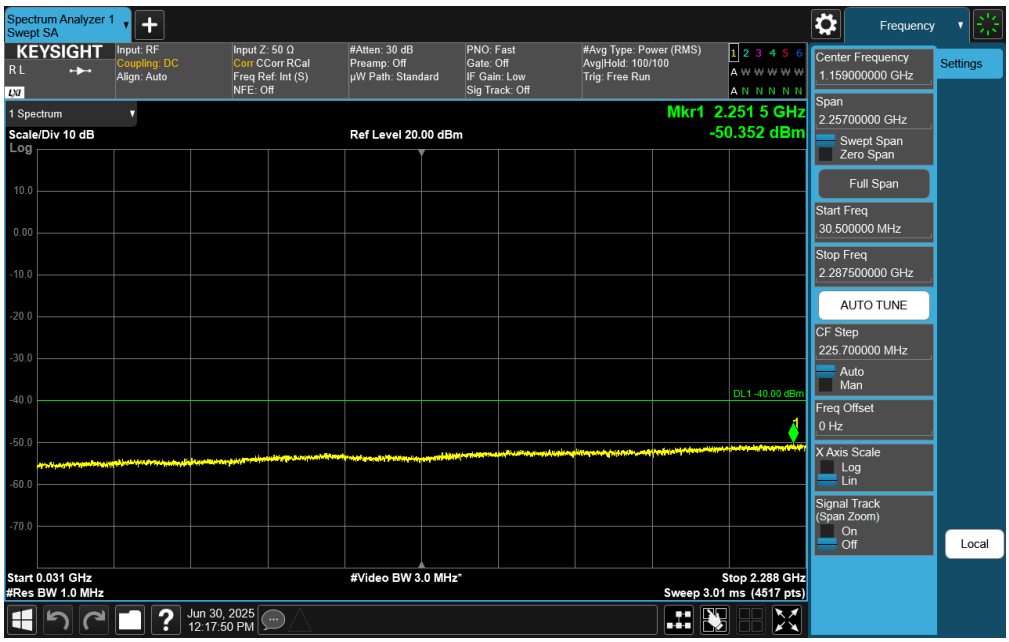


Plot 7-203. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-204. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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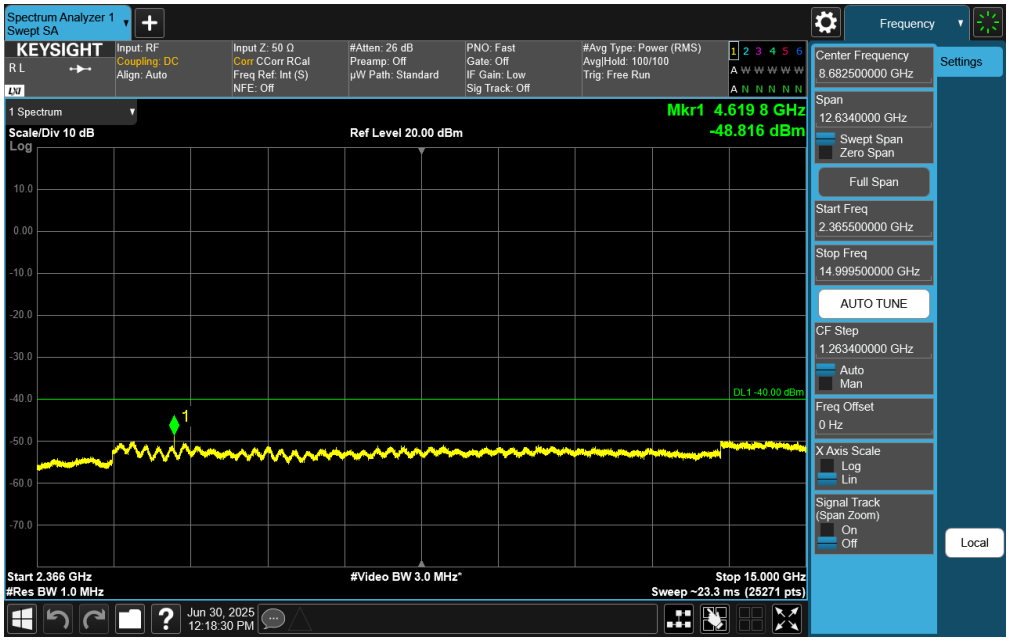
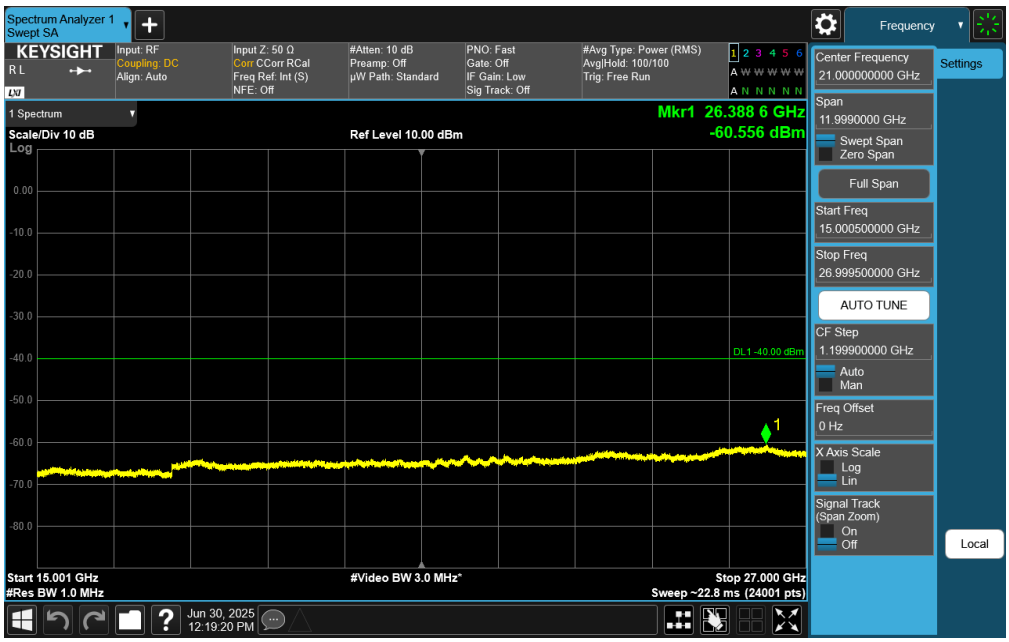


Plot 7-205. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-206. Conducted Spurious Plot (NR Band n30 - 10MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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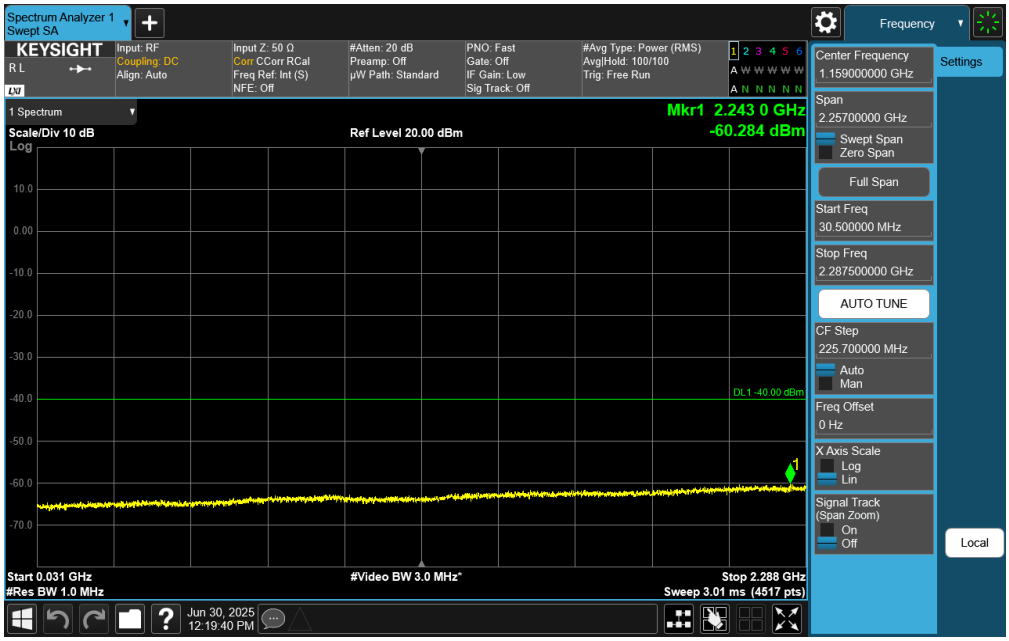
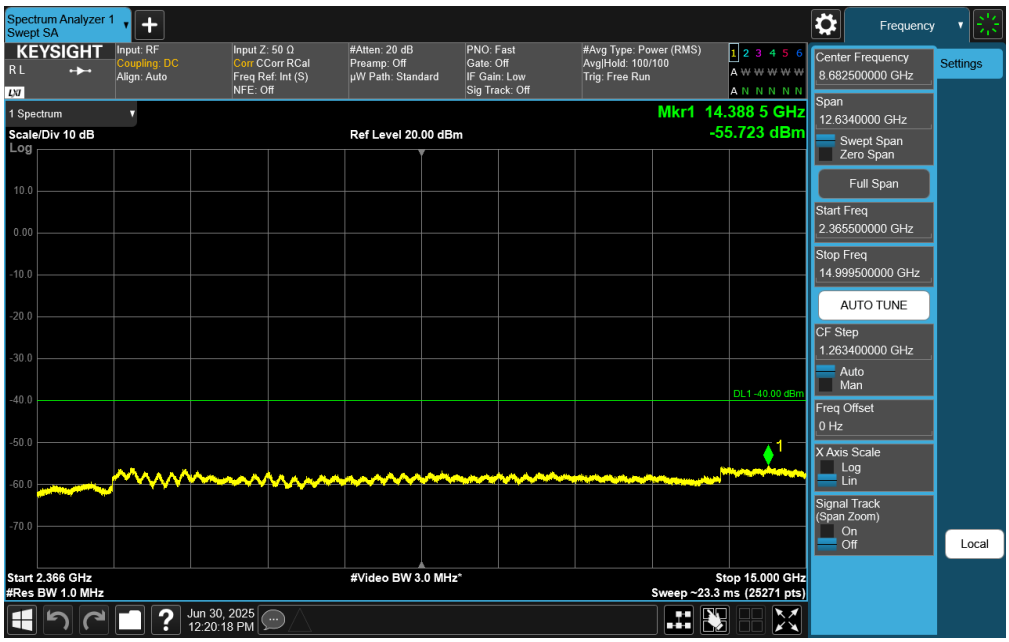


Plot 7-207. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-208. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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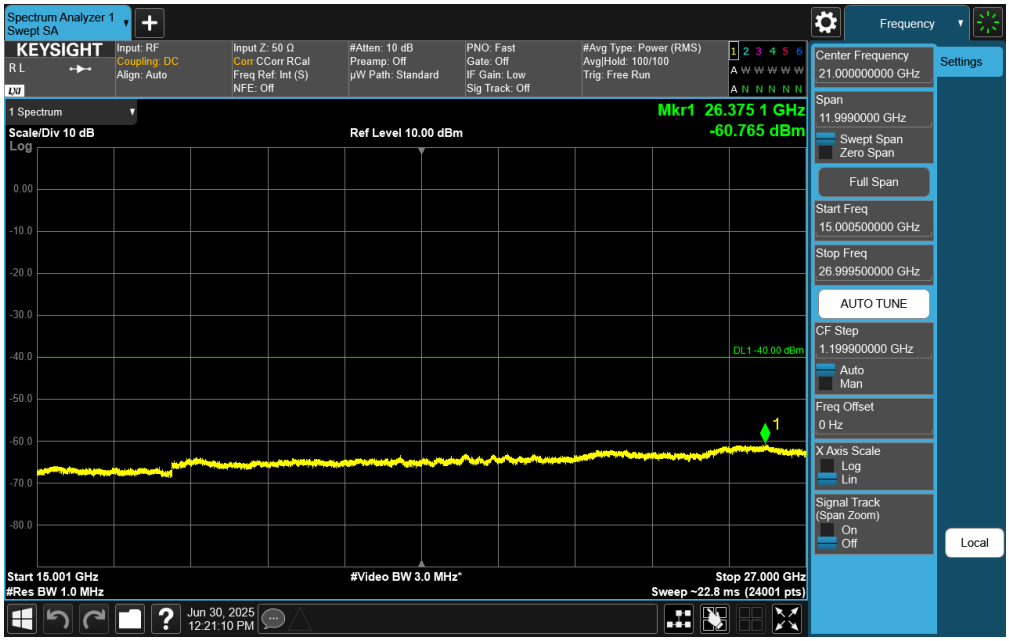

Plot 7-209. Conducted Spurious Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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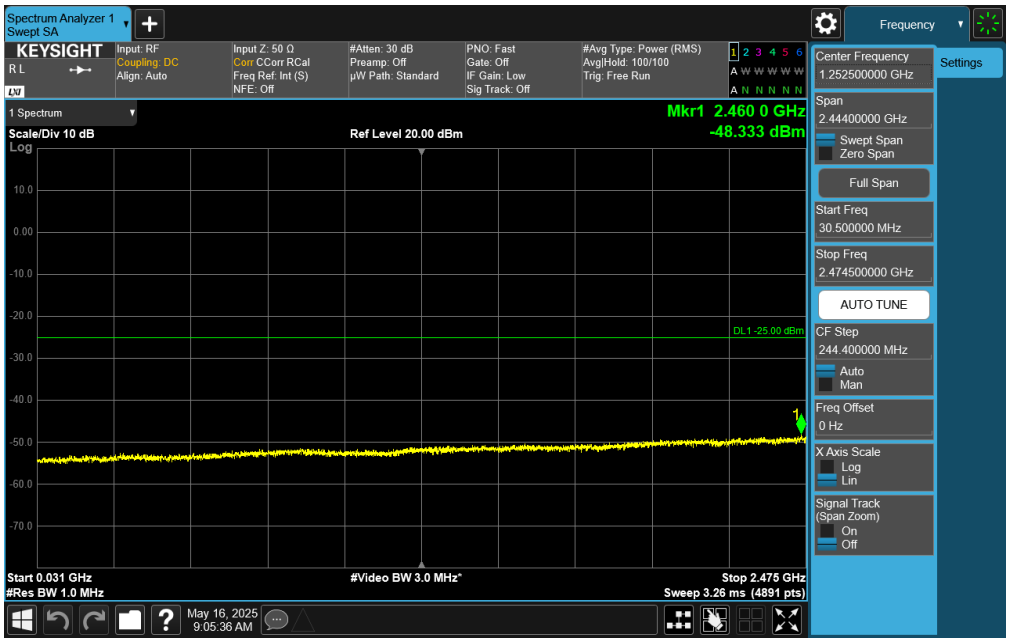
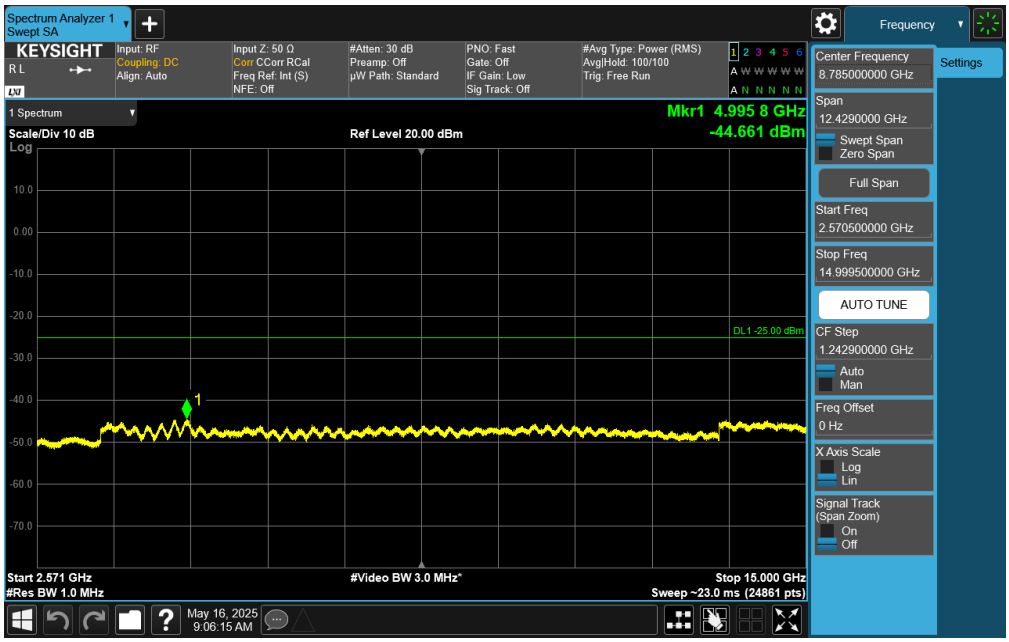
NR Band n7



Plot 7-210. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-211. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)

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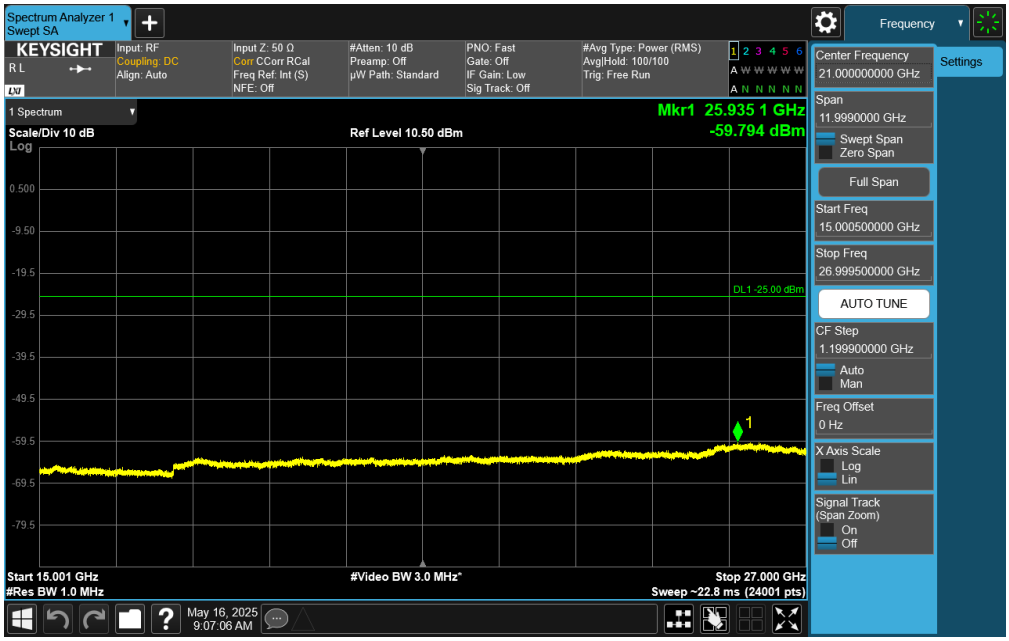
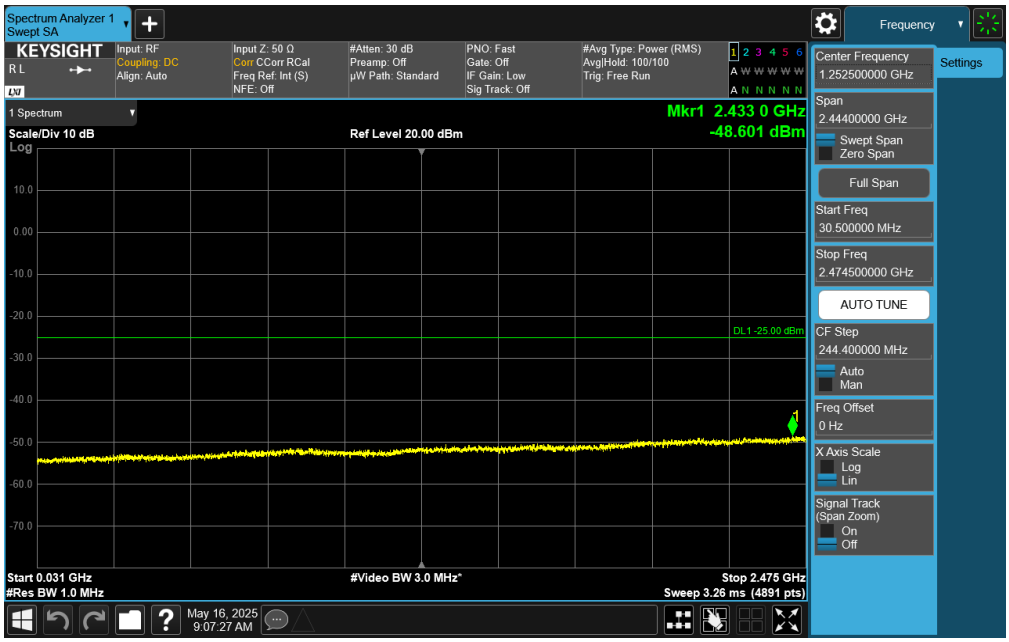


Plot 7-212. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-213. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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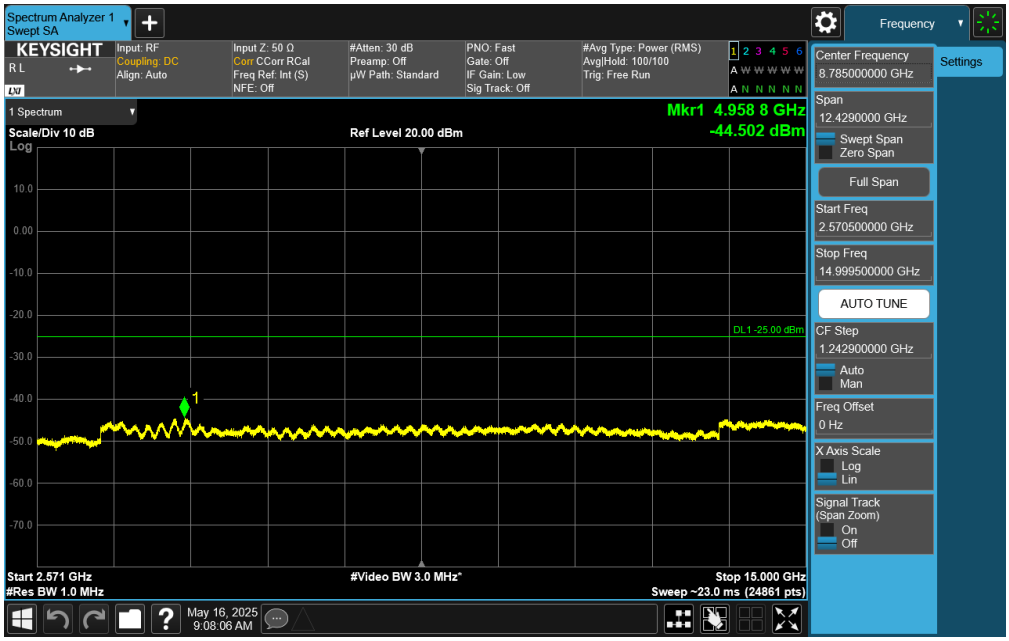
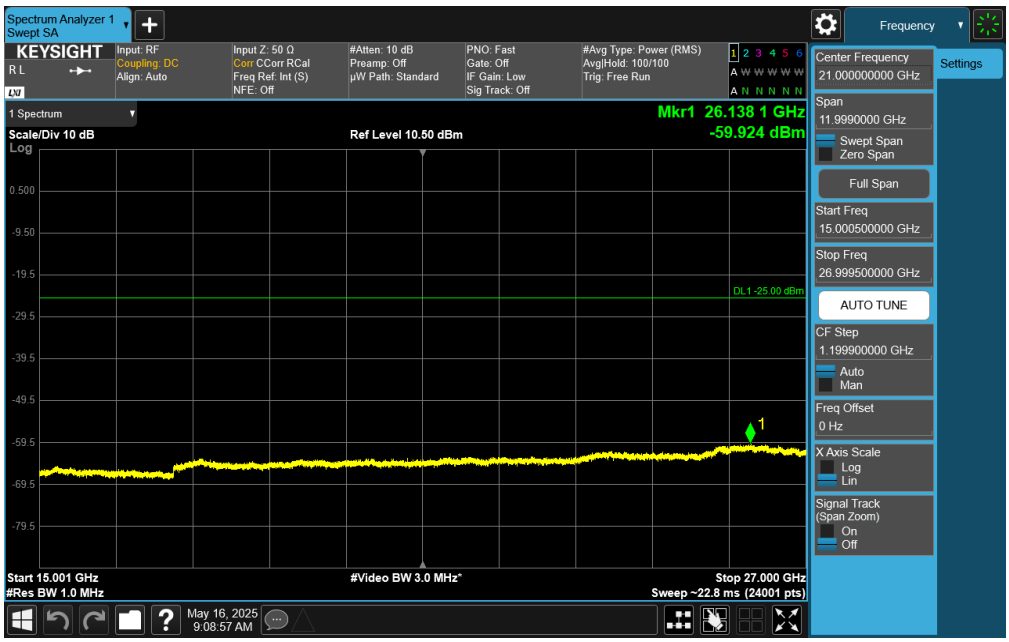


Plot 7-214. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-215. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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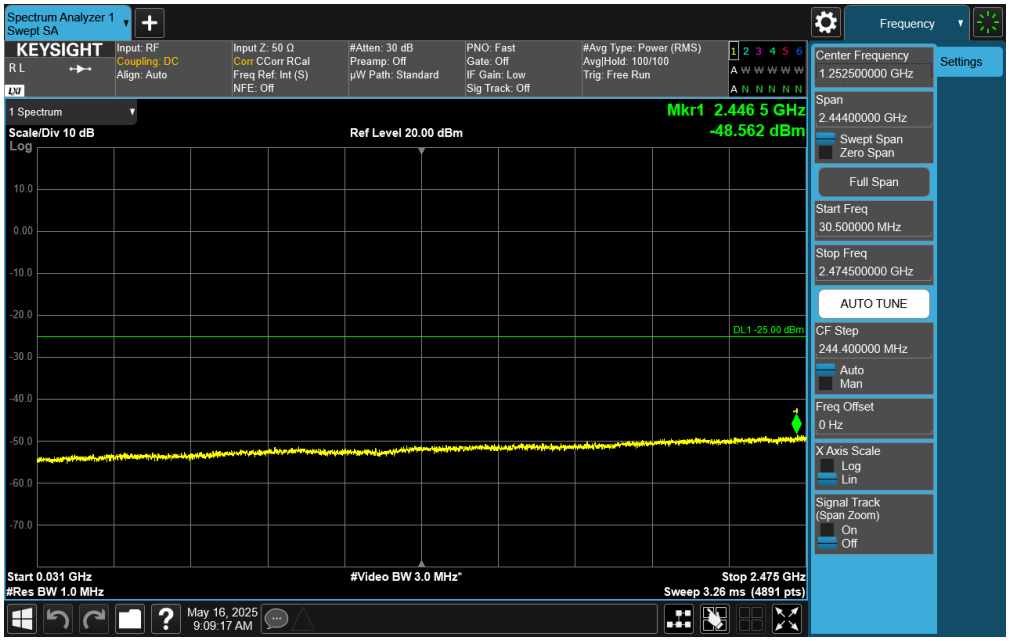
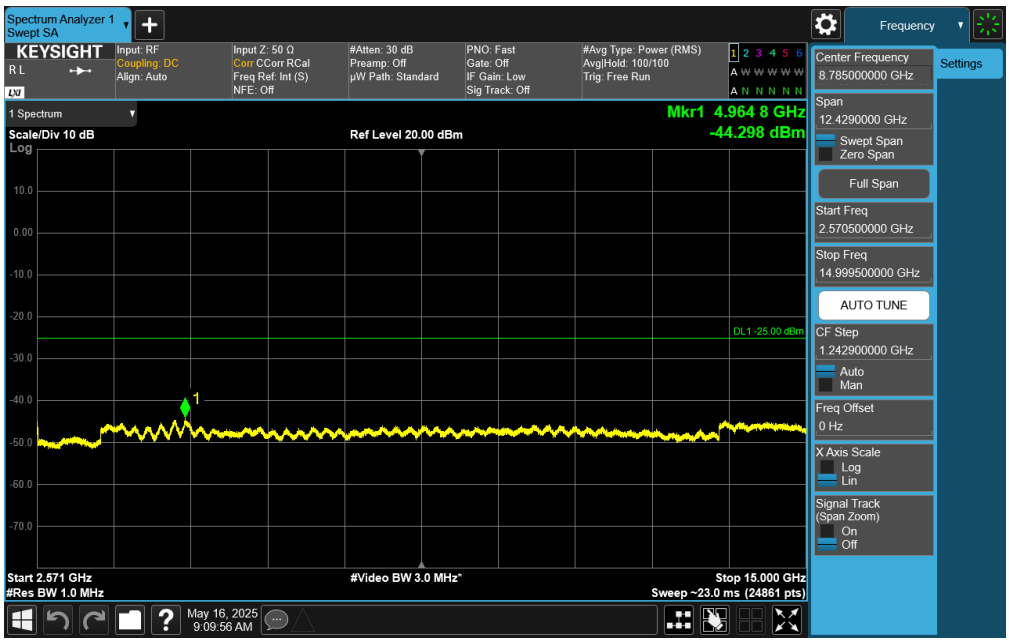


Plot 7-216. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-217. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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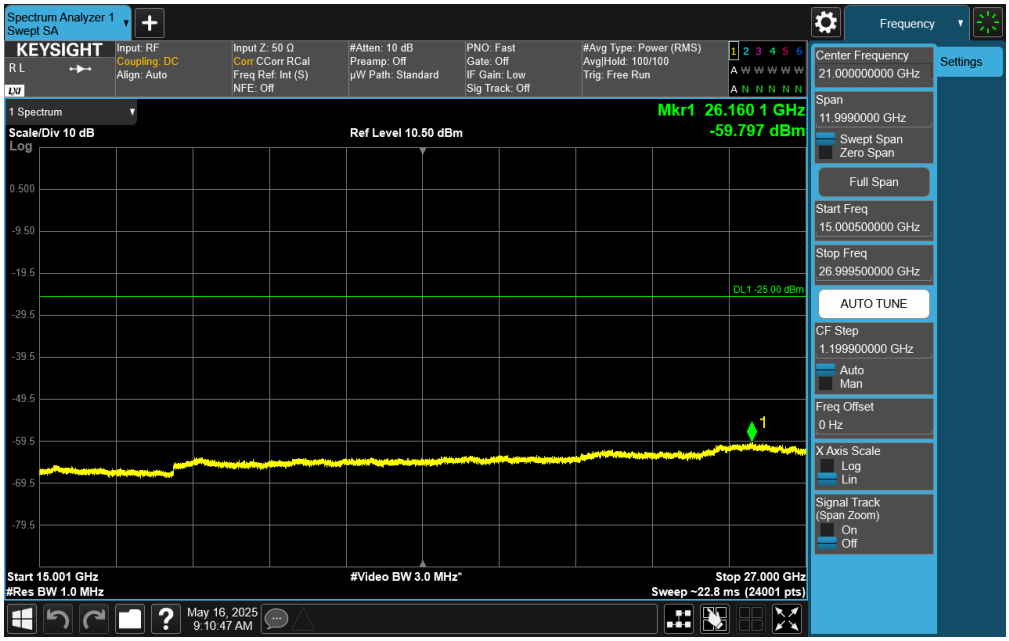

Plot 7-218. Conducted Spurious Plot (NR Band n7 - 50MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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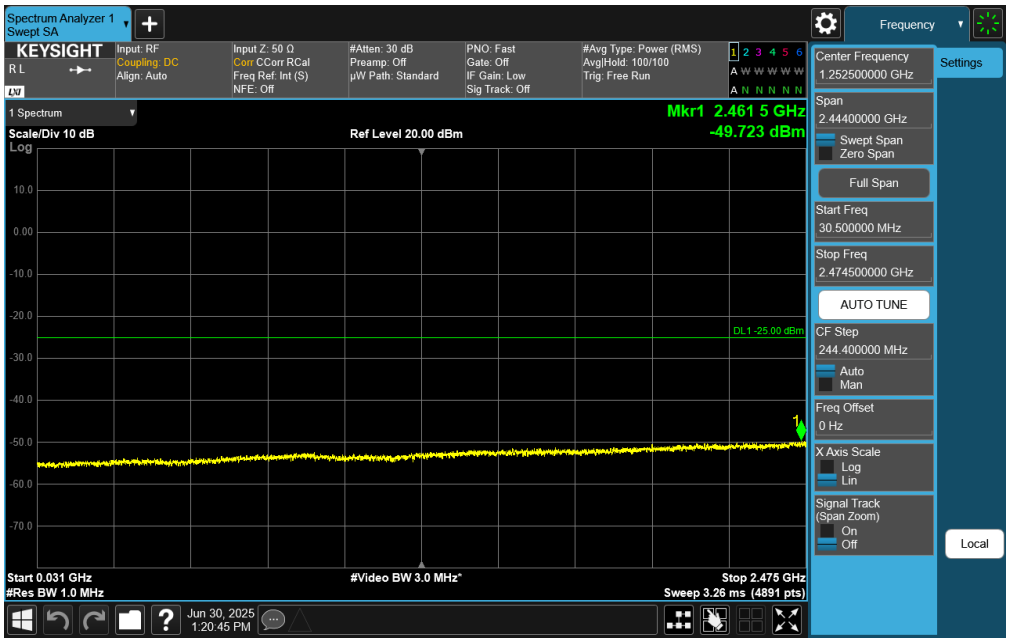
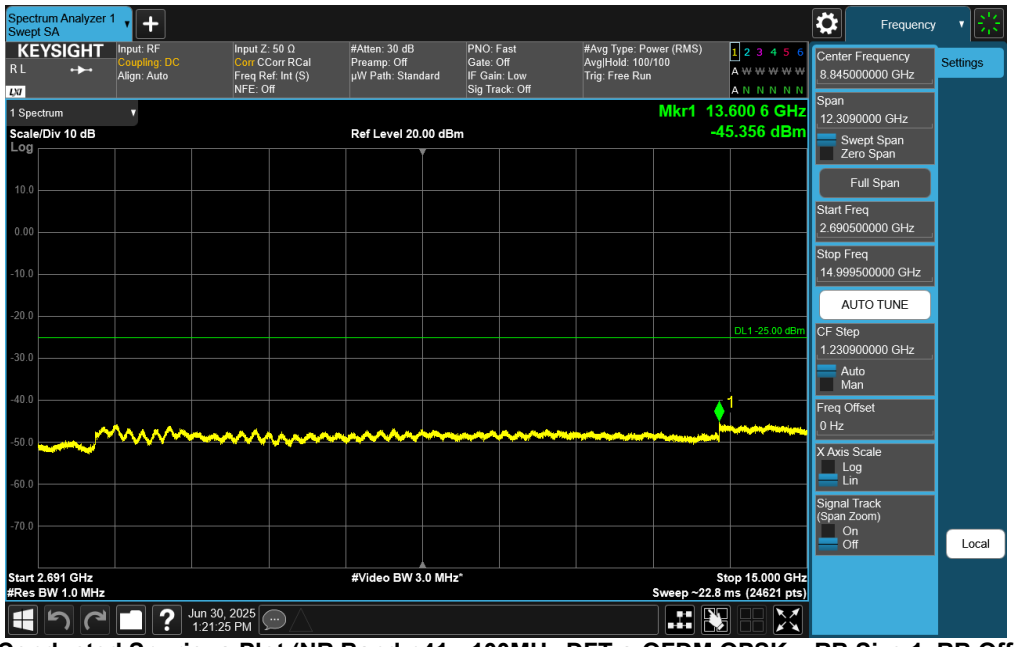
NR Band n41



Plot 7-219. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-220. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)

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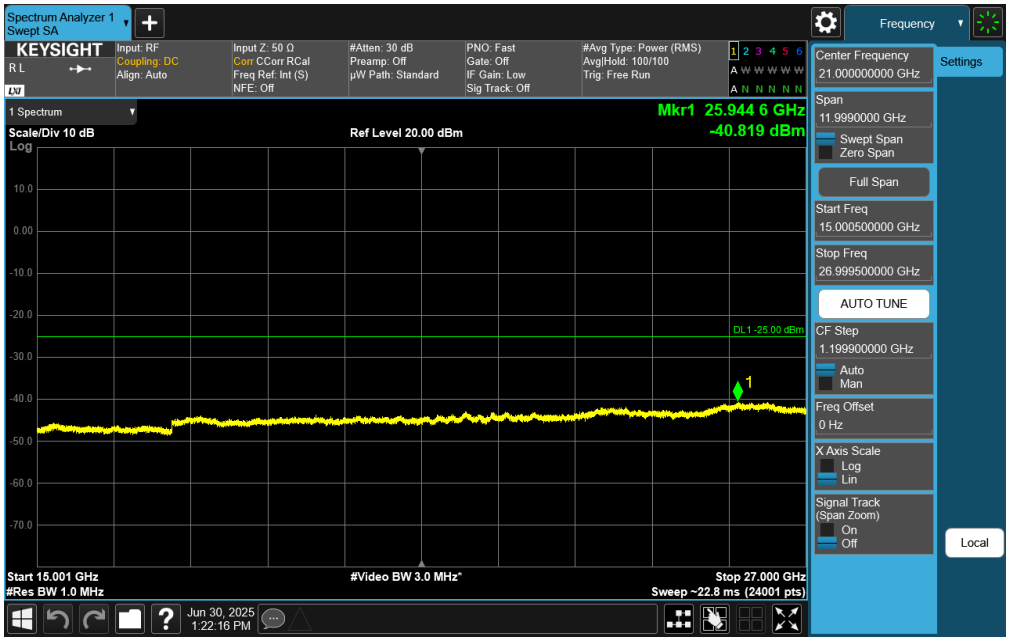
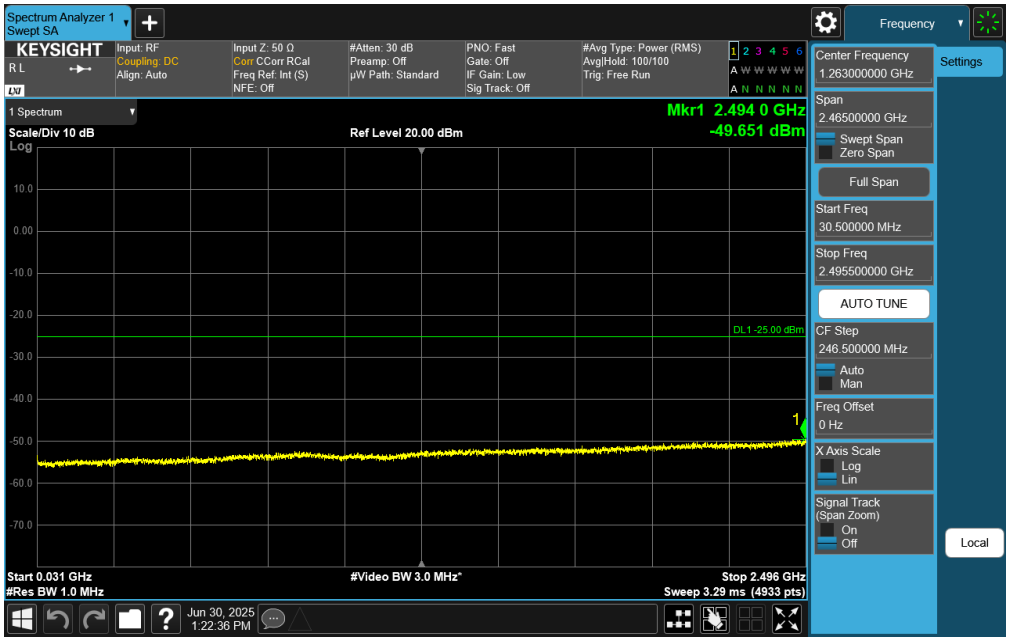


Plot 7-221. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-222. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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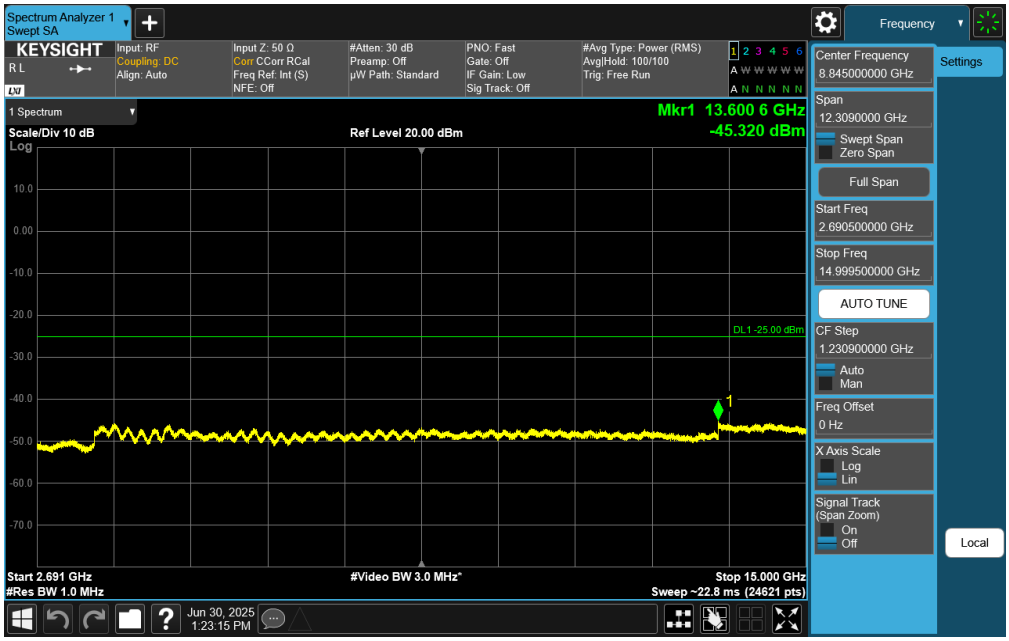
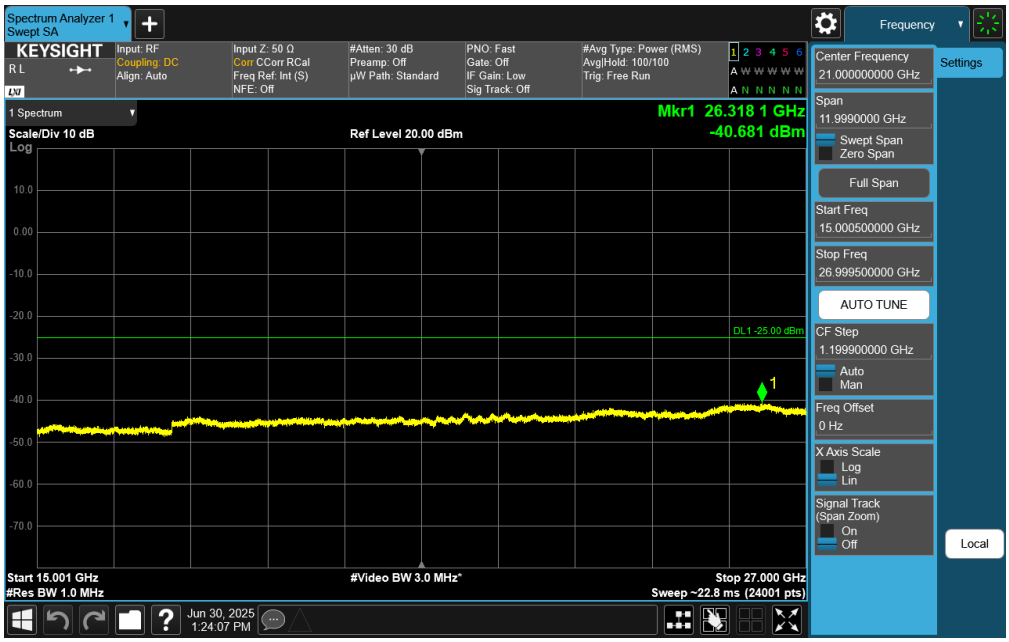


Plot 7-223. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-224. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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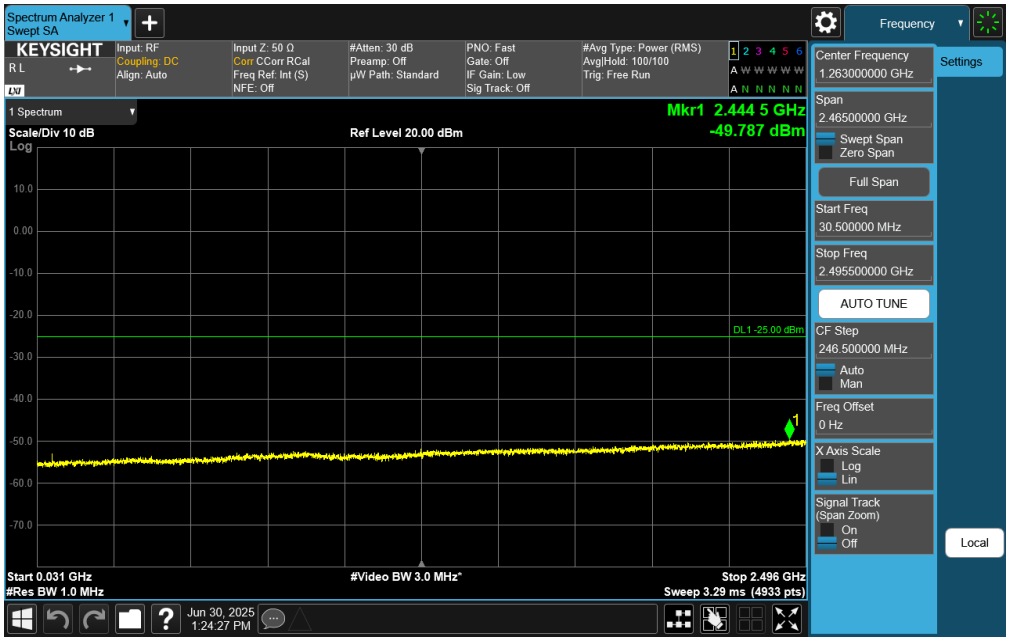
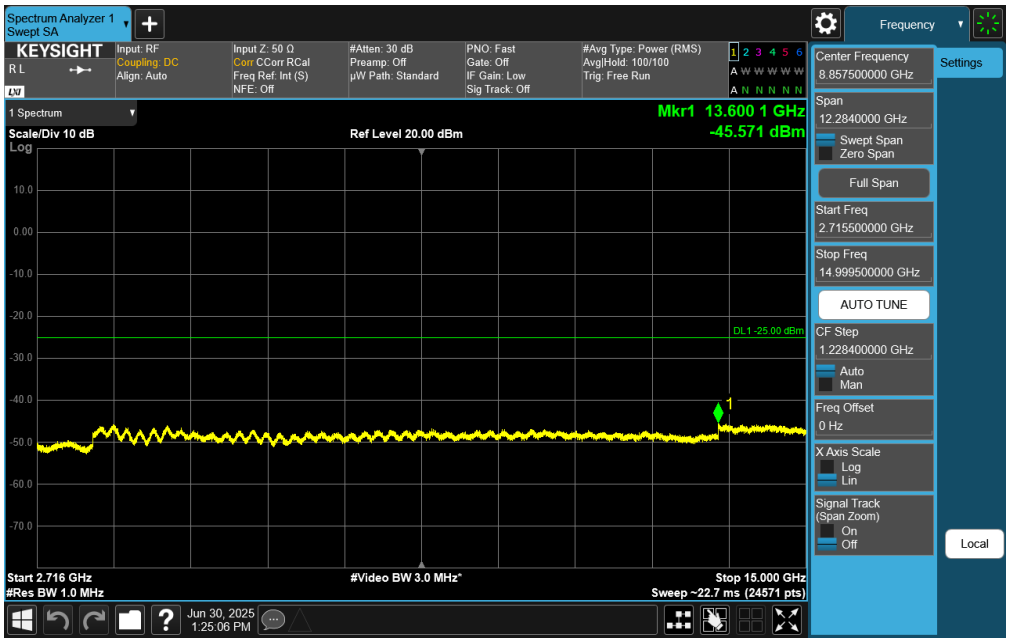


Plot 7-225. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-226. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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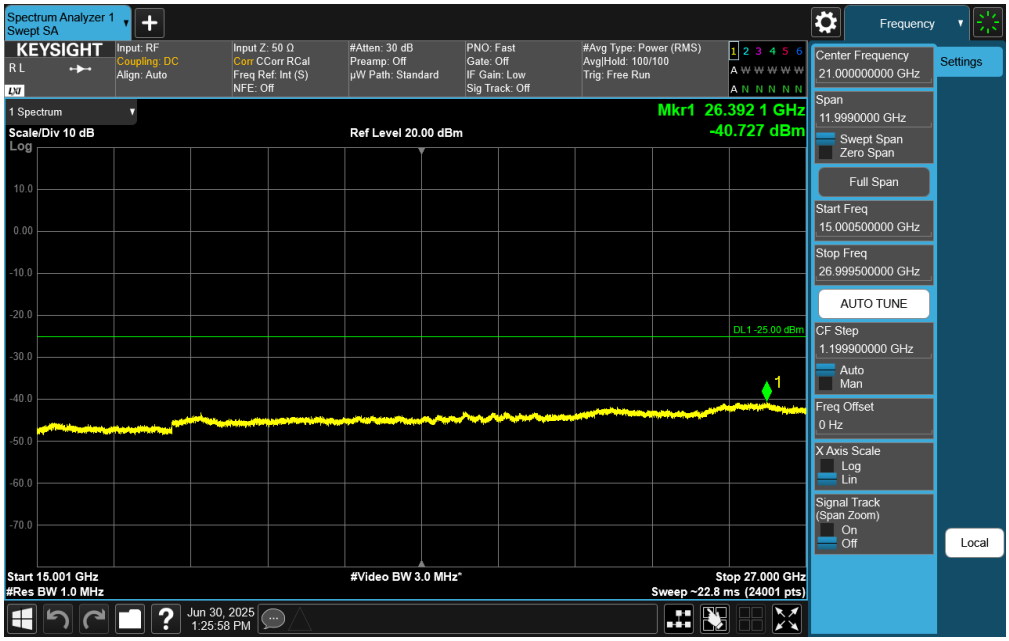

Plot 7-227. Conducted Spurious Plot (NR Band n41 - 100MHz DFT-s-OFDM QPSK – RB Size 1, RB Offset 0 – High Channel)

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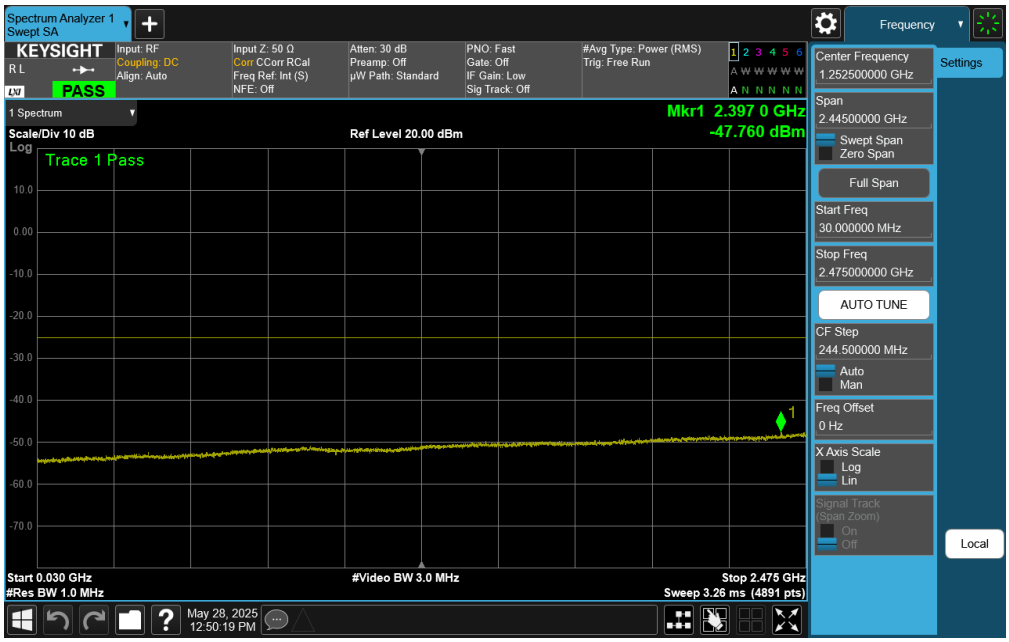
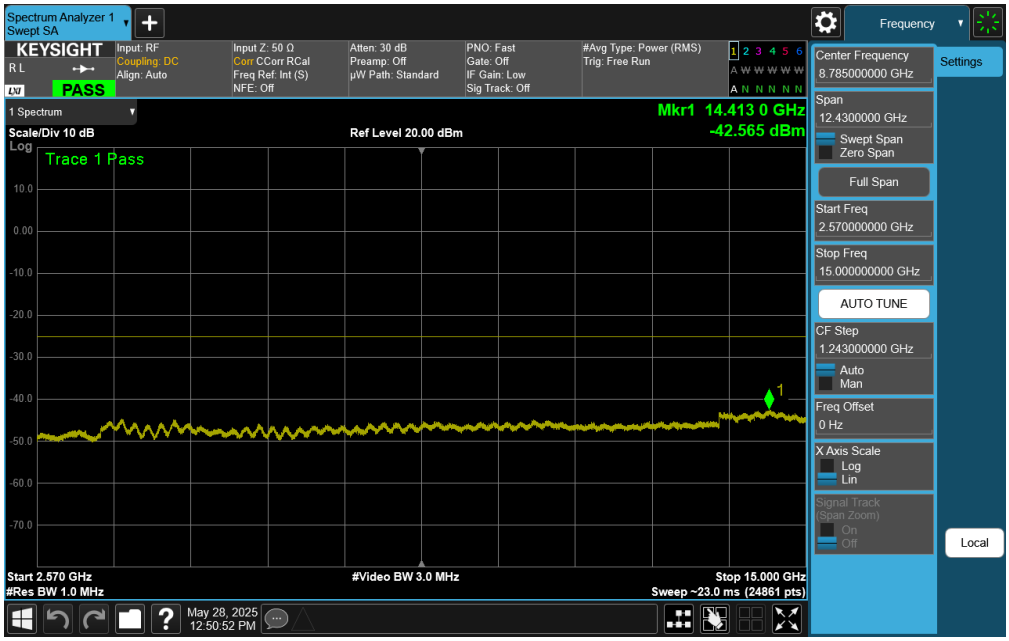
ULCA - LTE Band 7



Plot 7-228. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-229. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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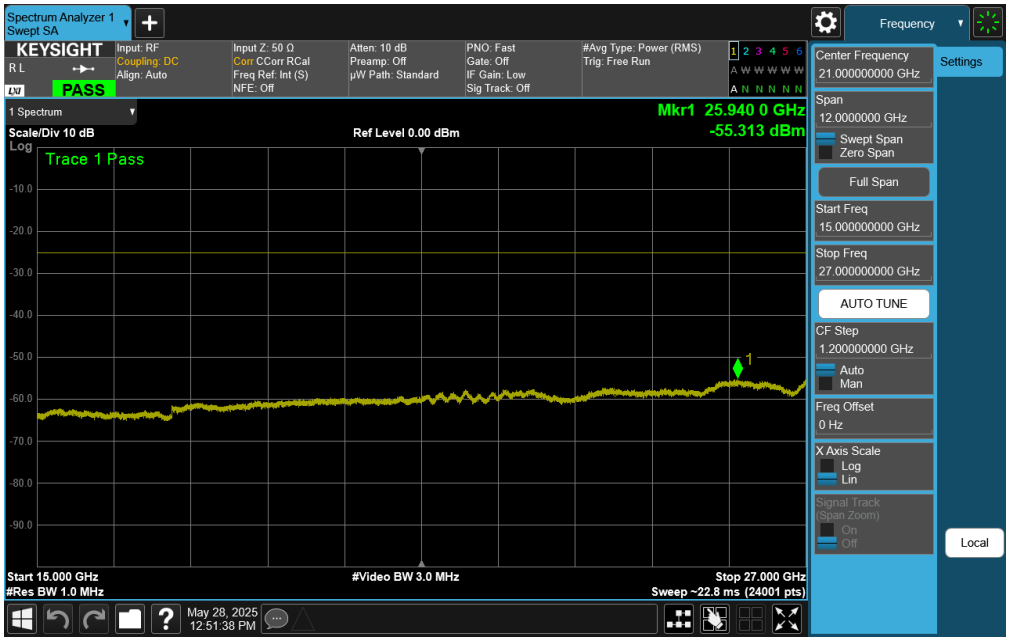
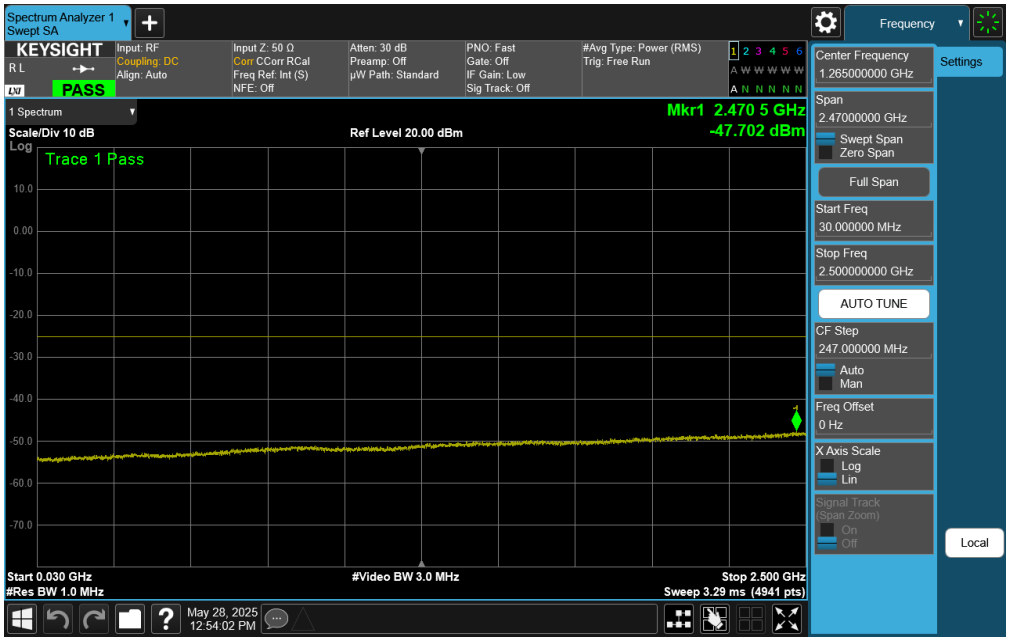


Plot 7-230. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-231. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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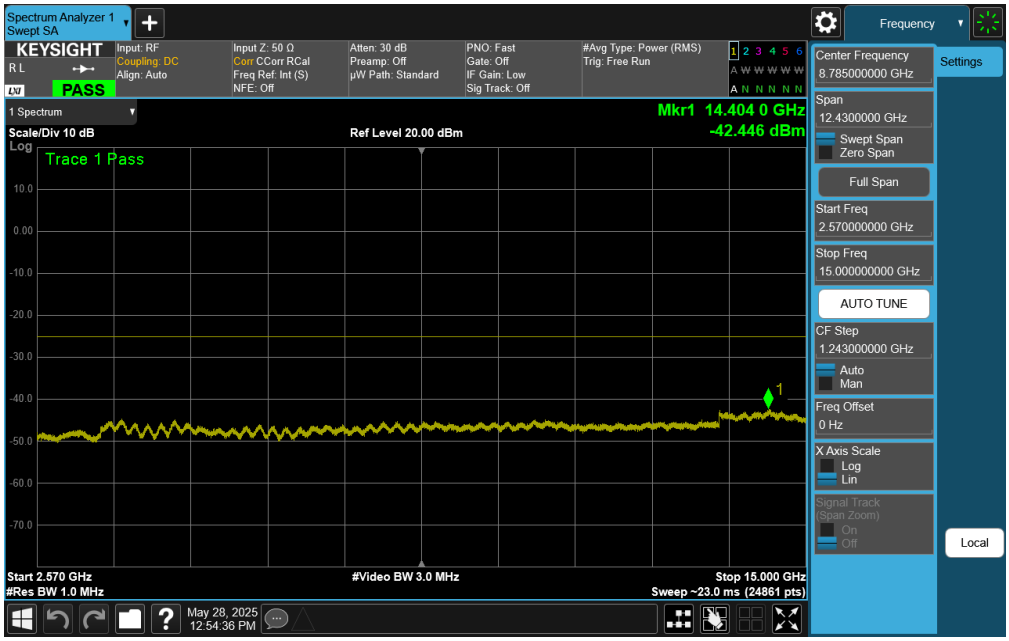
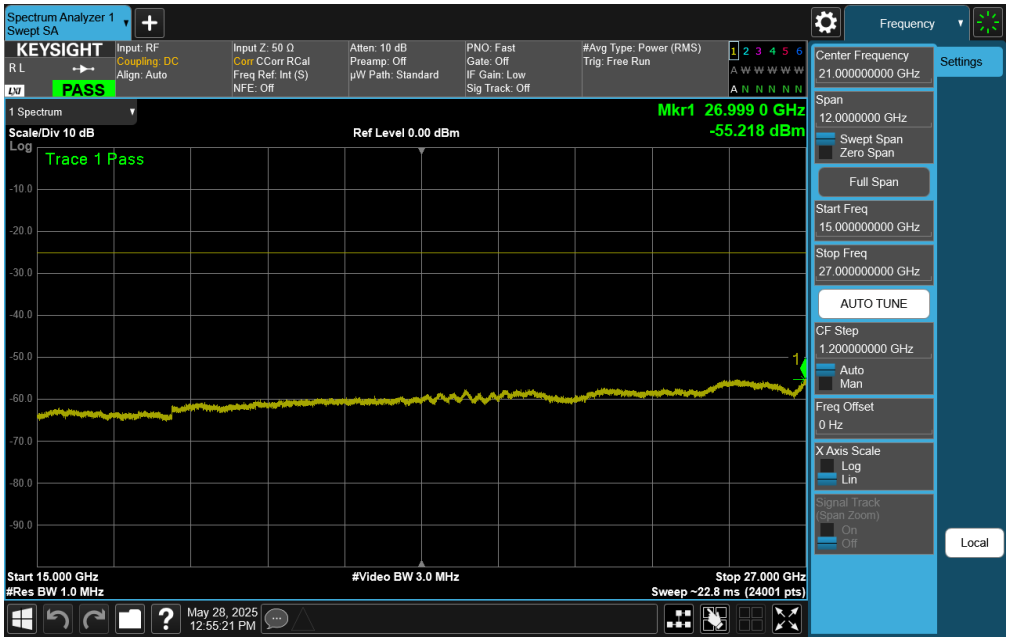


Plot 7-232. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-233. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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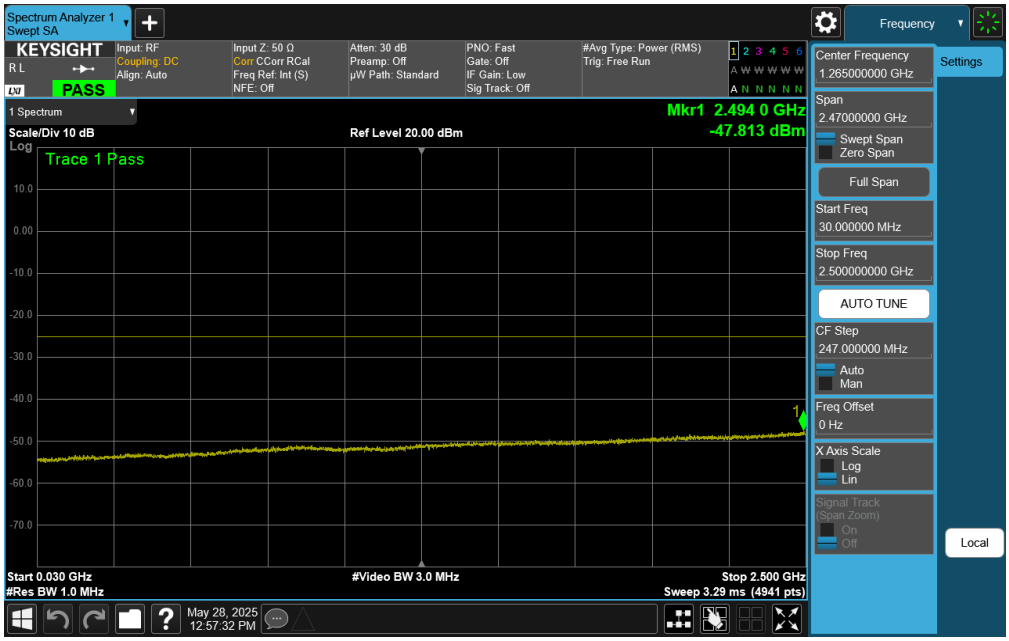
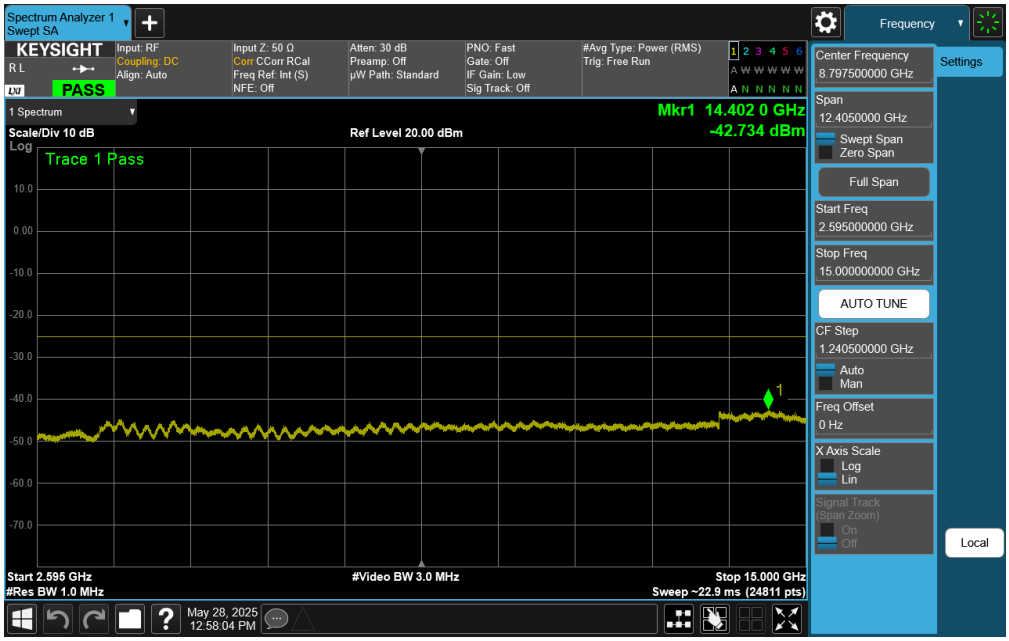


Plot 7-234. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-235. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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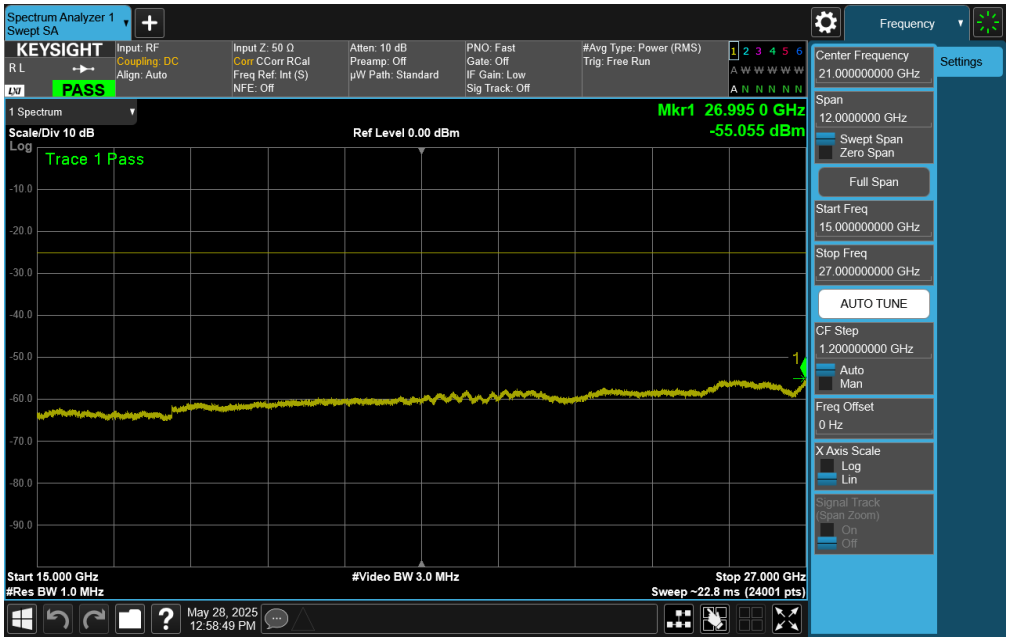

Plot 7-236. Conducted Spurious Plot (ULCA LTE 7 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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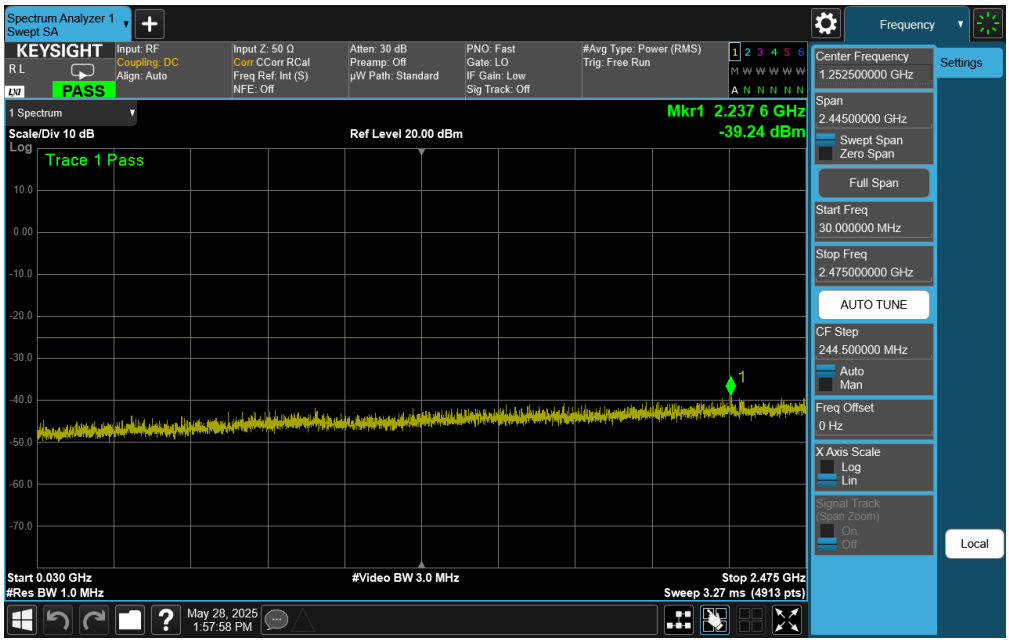
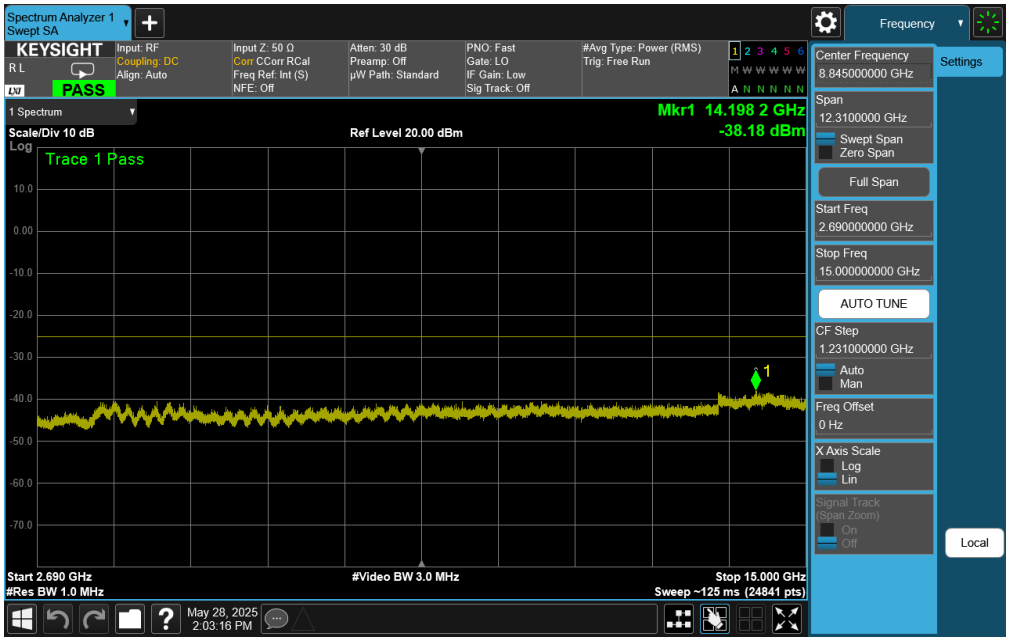
ULCA - LTE Band 41



Plot 7-237. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-238. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

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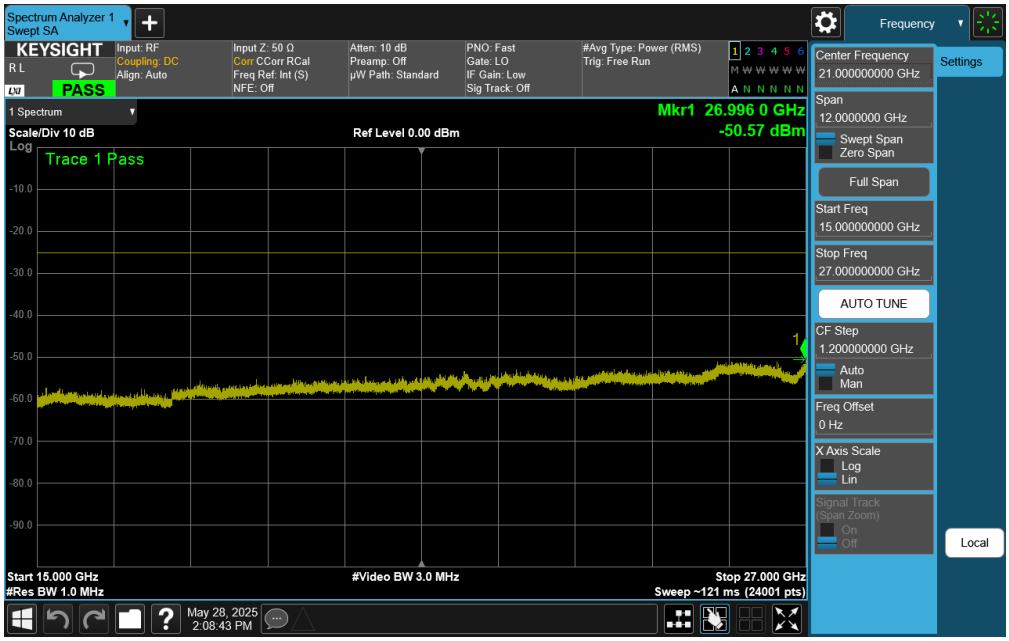
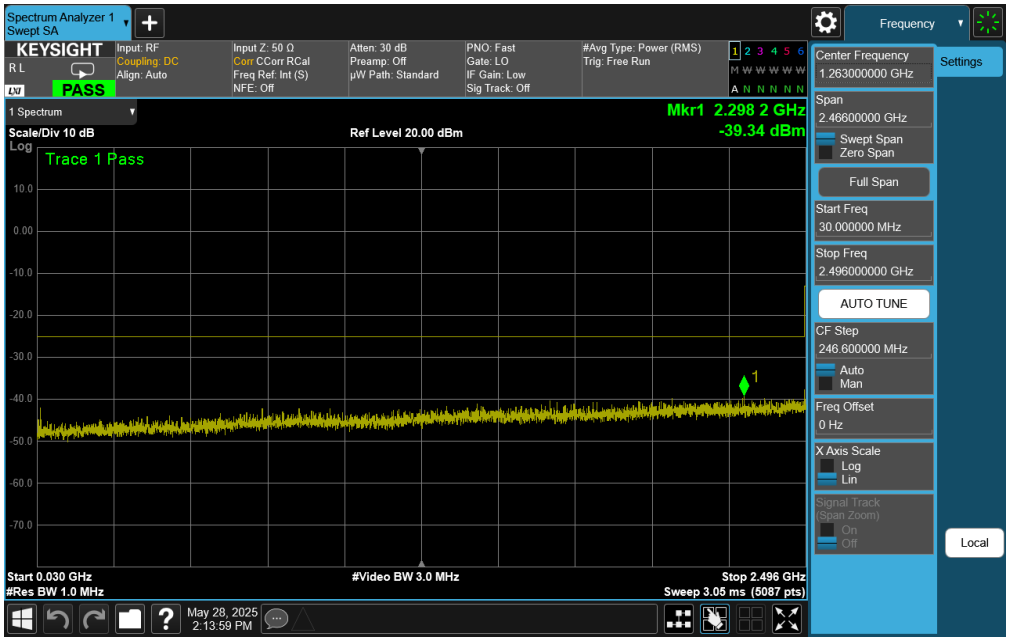


Plot 7-239. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-240. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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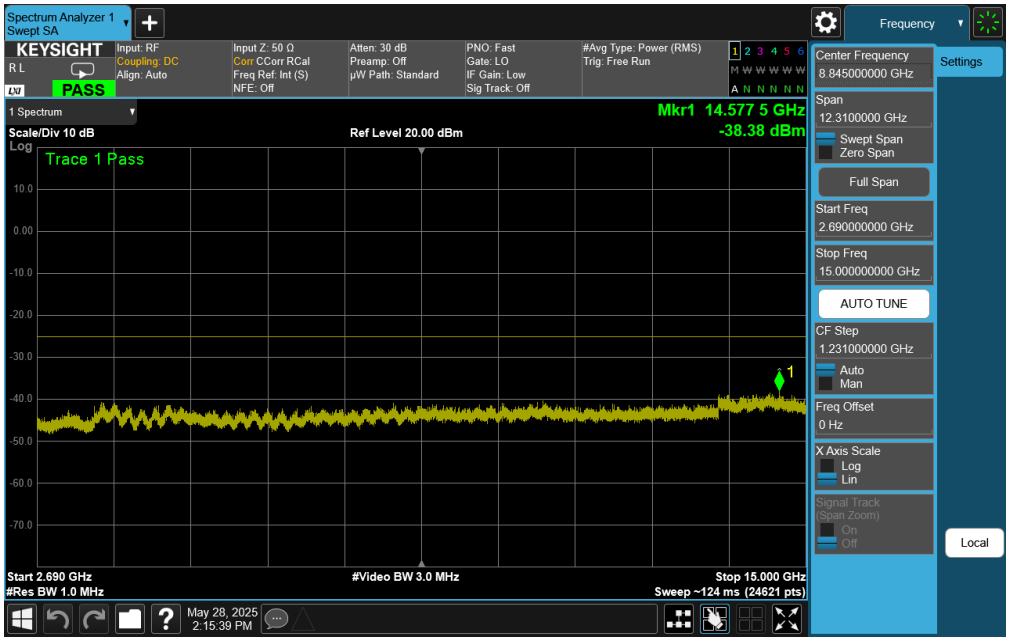
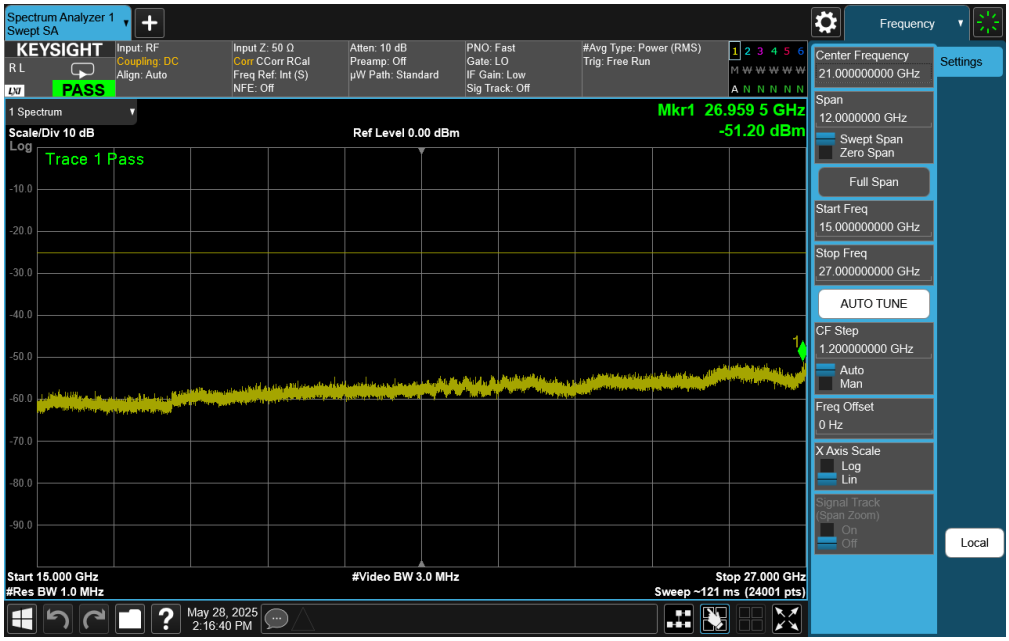


Plot 7-241. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-242. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

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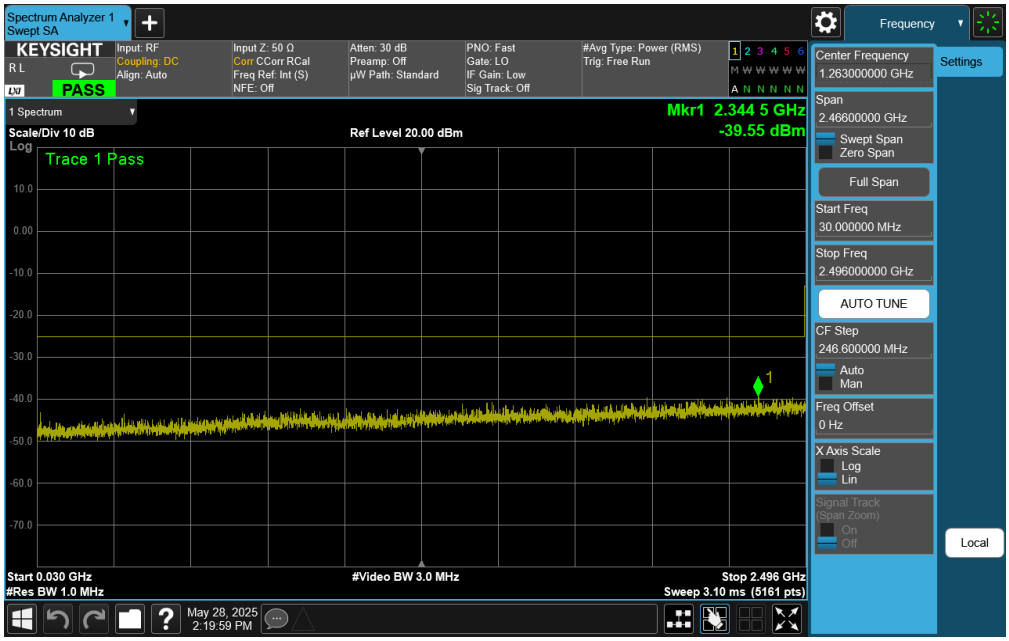
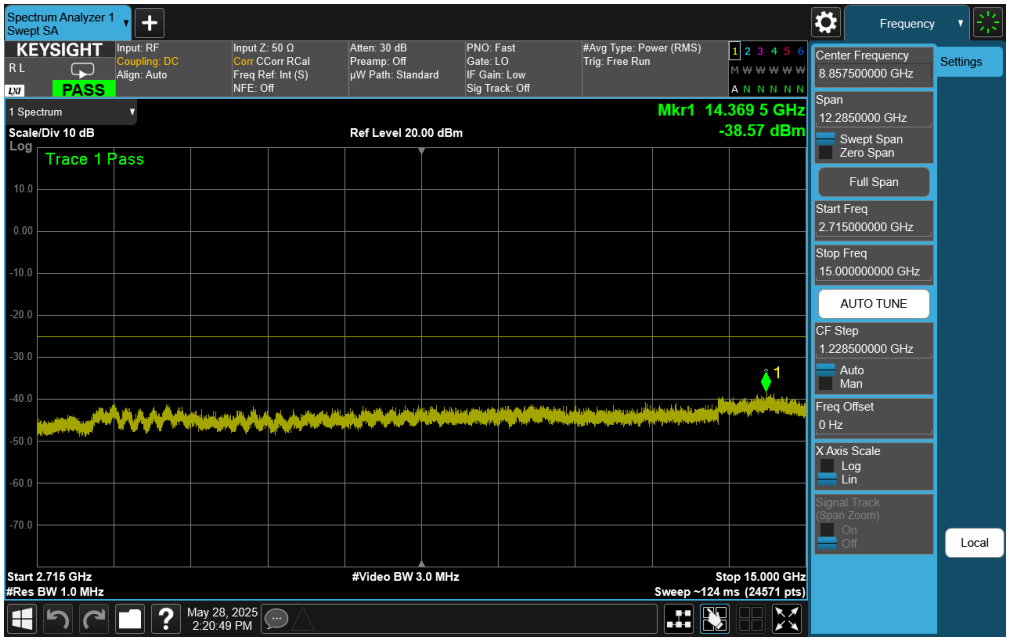


Plot 7-243. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-244. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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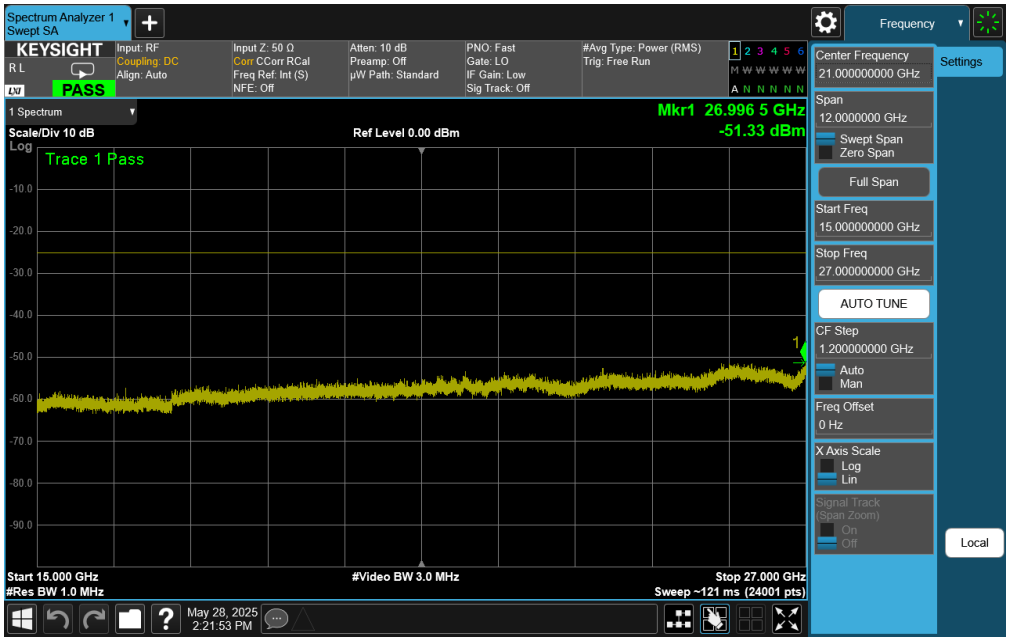

Plot 7-245. Conducted Spurious Plot (ULCA LTE 41 – (20+20)MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

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7.4 Band Edge Emissions at Antenna Terminal

§2.1051, §27.53(a), §27.53(m)

Test Overview and Limit

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 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. All ports were tested and only the worst case data was reported.

The minimum permissible attenuation level for LTE Band 30 and NR Band n30 is > 43 + 10log$_{10}$ (P[Watts] at 2300-2305MHz & 2345-2360MHz, > 55 + 10log$_{10}$ (P[Watts]) at 2320-2324MHz & 2341-2345MHz, > 61 + 10log$_{10}$ (P[Watts]) at 2324-2328MHz & 2337-2341MHz, > 67 + 10log$_{10}$ (P[Watts]) at 2288-2292MHz & 2328-2337MHz, and > 70 + 10log$_{10}$ (P[Watts]) at frequencies < 2288MHz & >2365MHz.

For LTE Bands 7, 41, and NR Band n7, n41 the minimum permissible attenuation level is noted in the Test Notes on the following page.

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 ≥ 1% of the emission bandwidth
4. VBW ≥ 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
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.

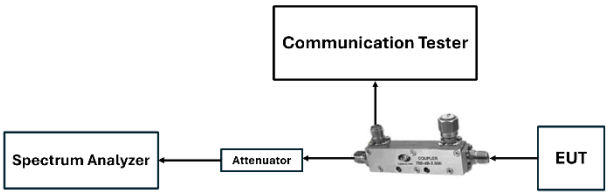

Figure 7-5. LTE Test Instrument & Measurement Setup

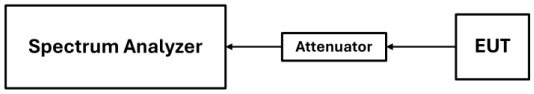

Figure 7-6. FR1 Test Instrument & Measurement Setup

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Test Notes

1. Per 27.53(h), 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.

2. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). 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 emissions are attenuated at least 26 dB below the transmitter power.

3. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

4. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

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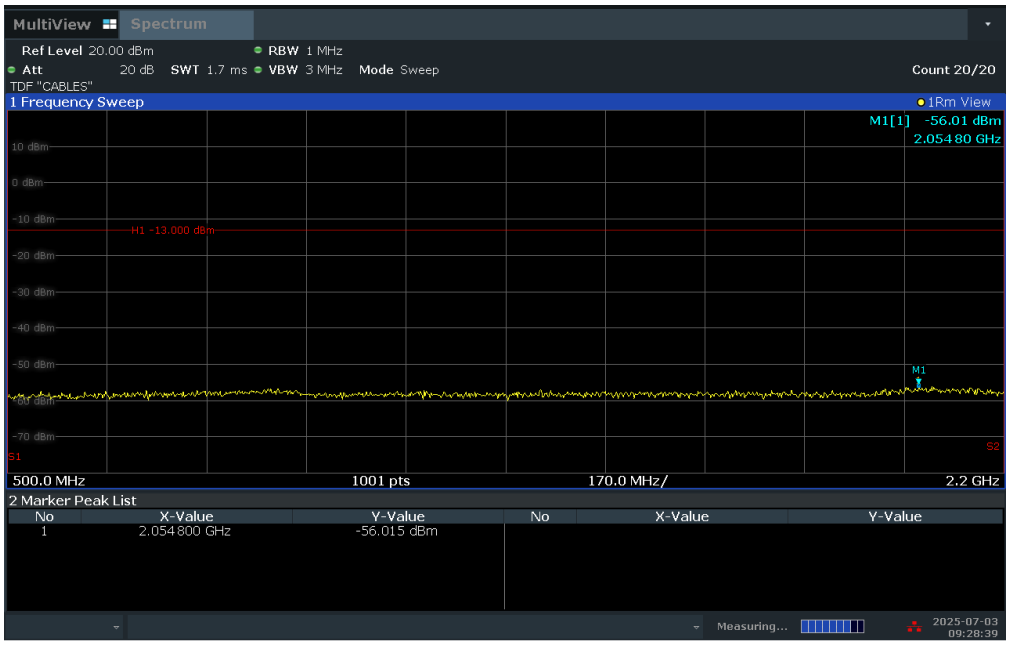
LTE Band 30



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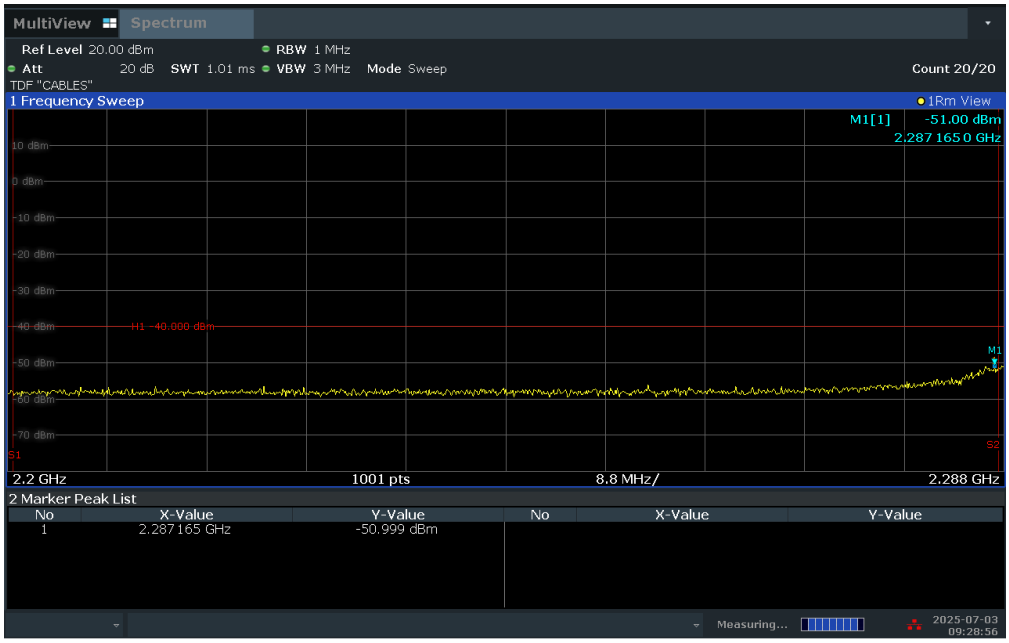
Plot 7-246. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



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Plot 7-247. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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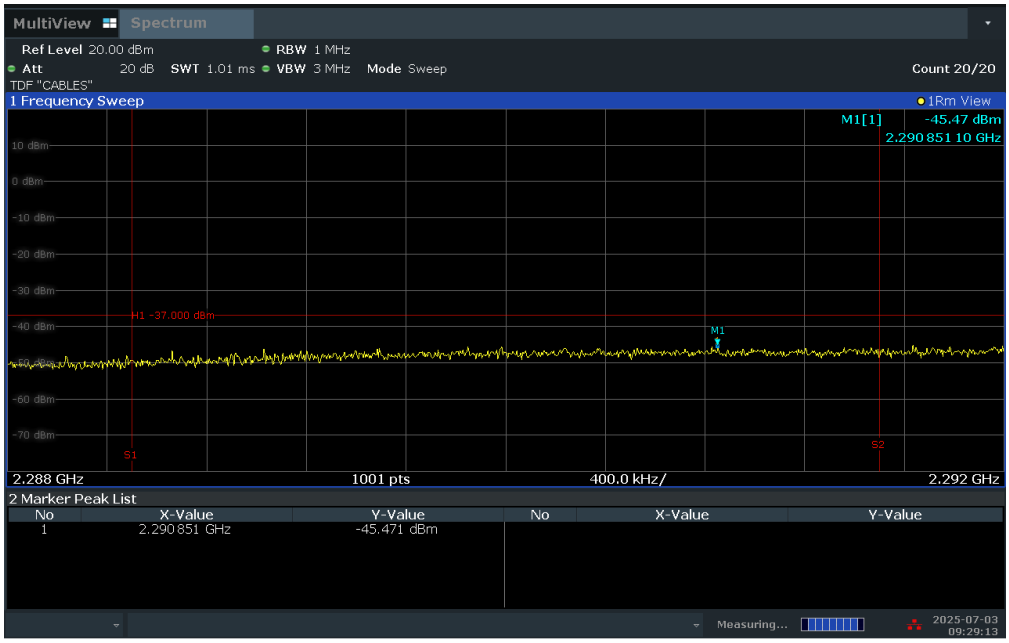

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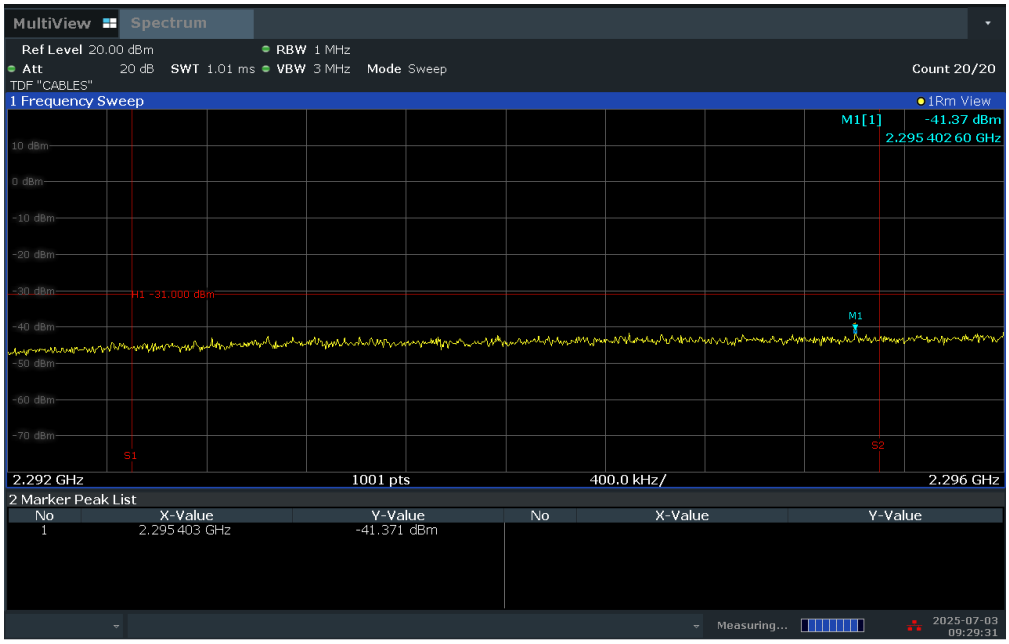
Plot 7-248. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



09:29:31 AM 07/03/2025

Plot 7-249. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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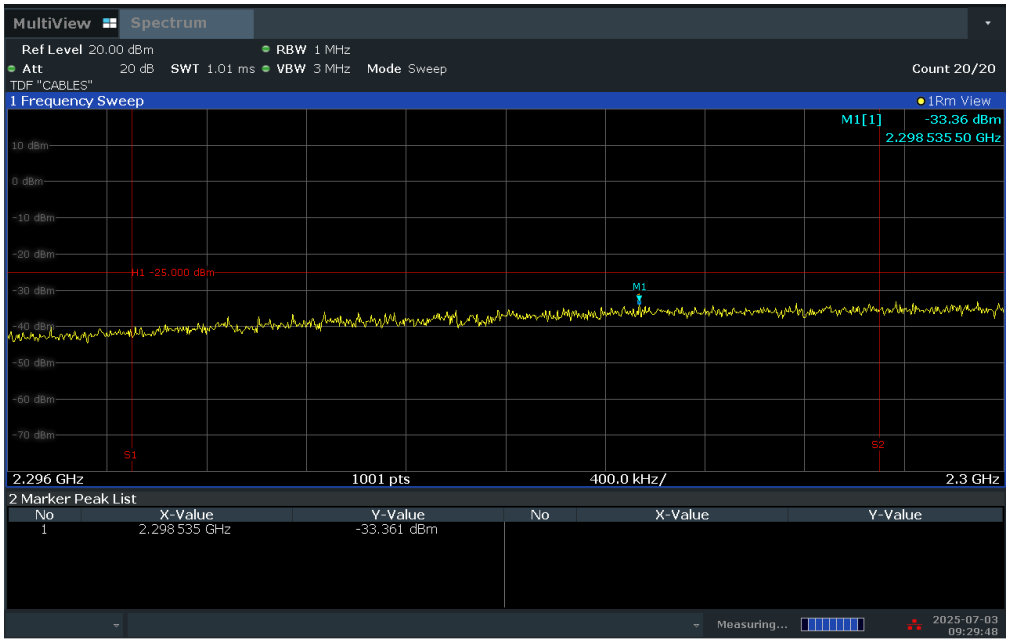
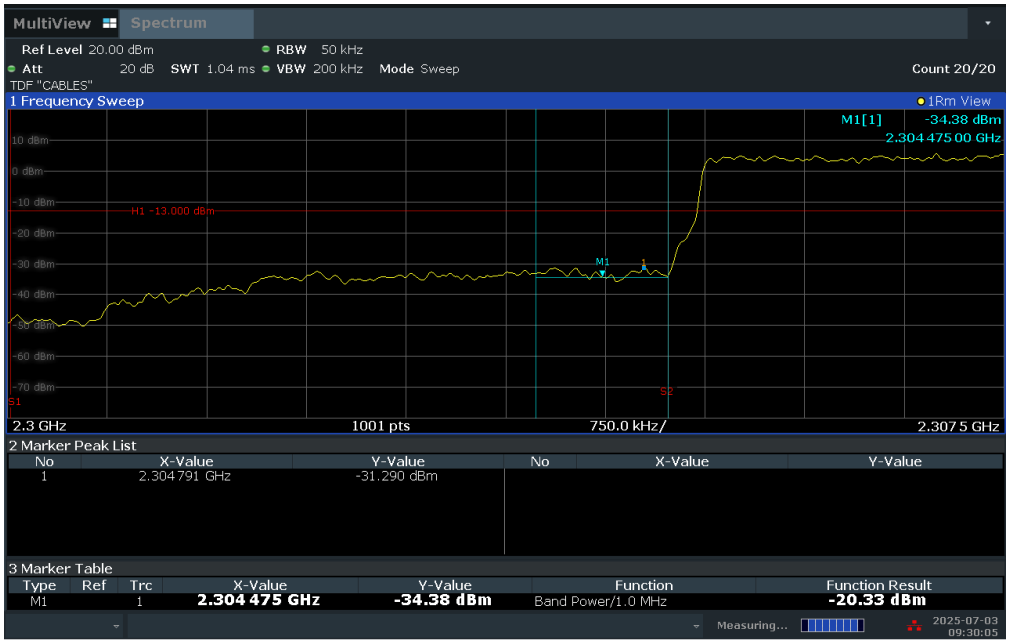


09:29:48 AM 07/03/2025

Plot 7-250. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



09:30:06 AM 07/03/2025

Plot 7-251. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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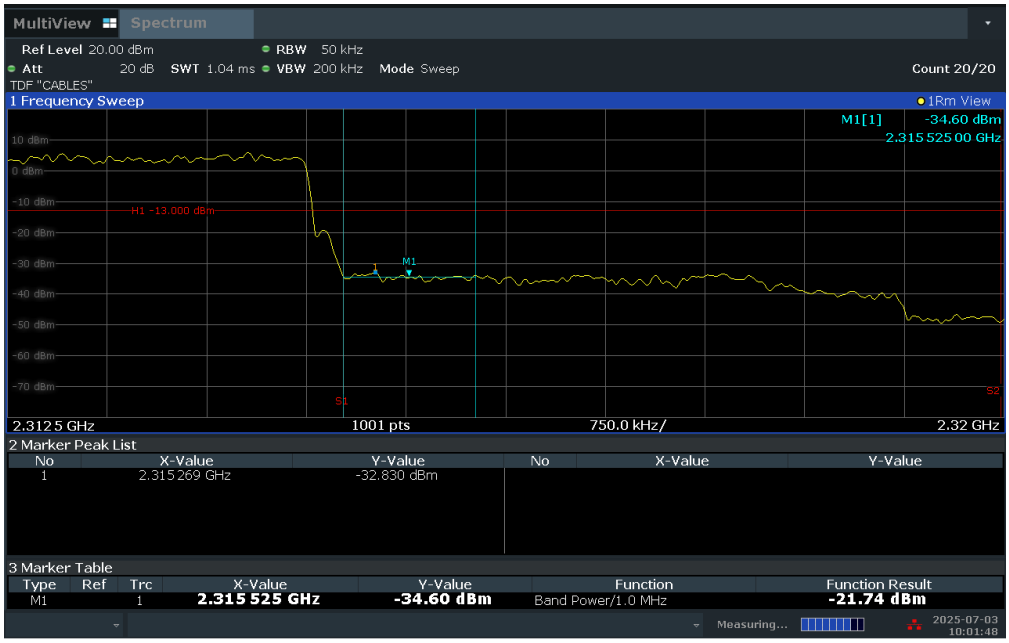
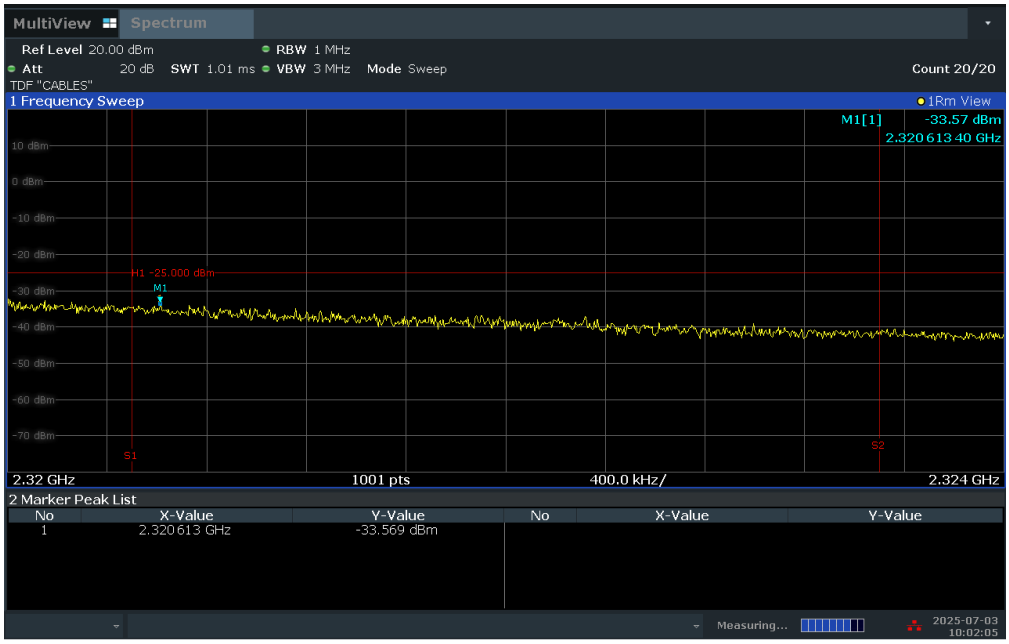


10:01:48 AM 07/03/2025

Plot 7-252. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



10:02:06 AM 07/03/2025

Plot 7-253. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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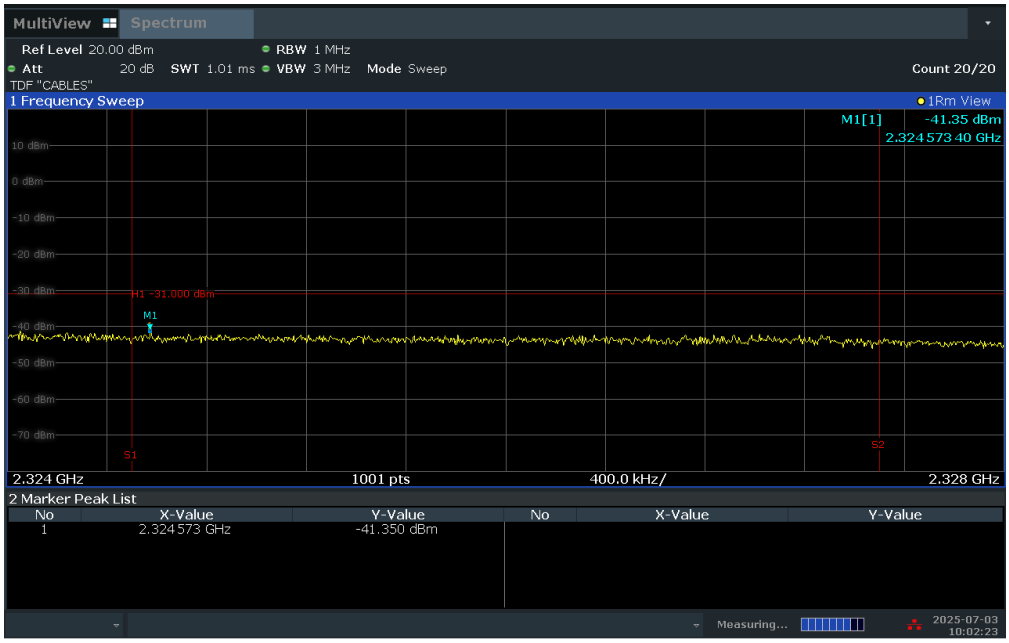

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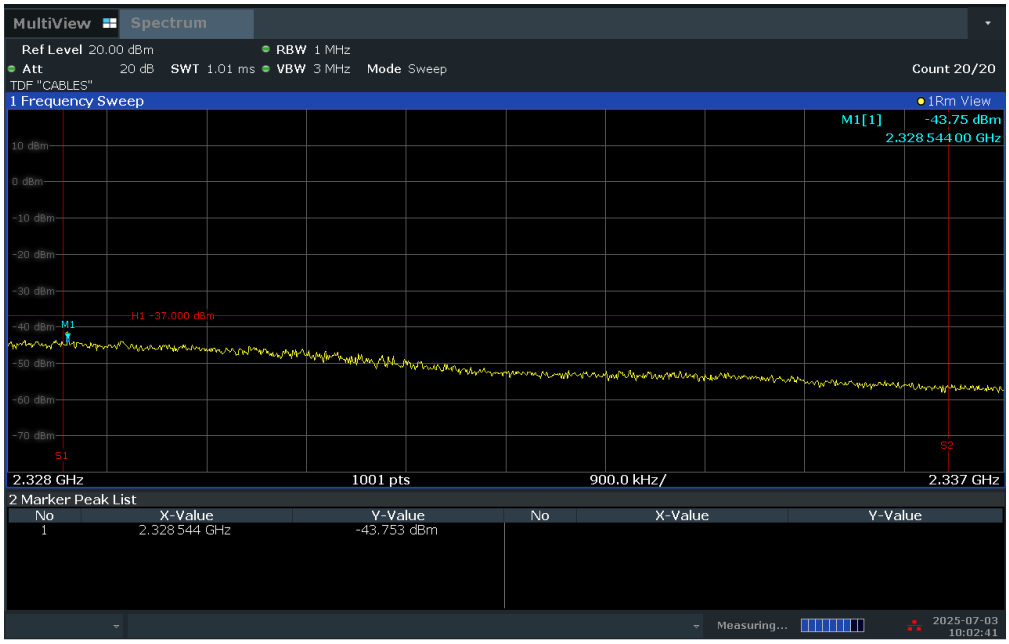
Plot 7-254. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



10:02:41 AM 07/03/2025

Plot 7-255. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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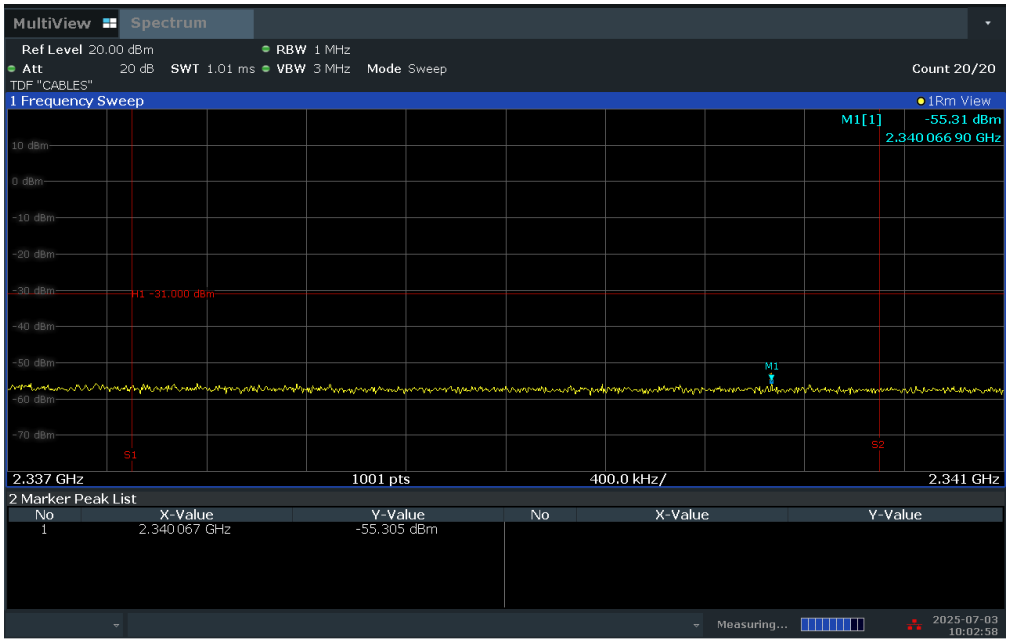

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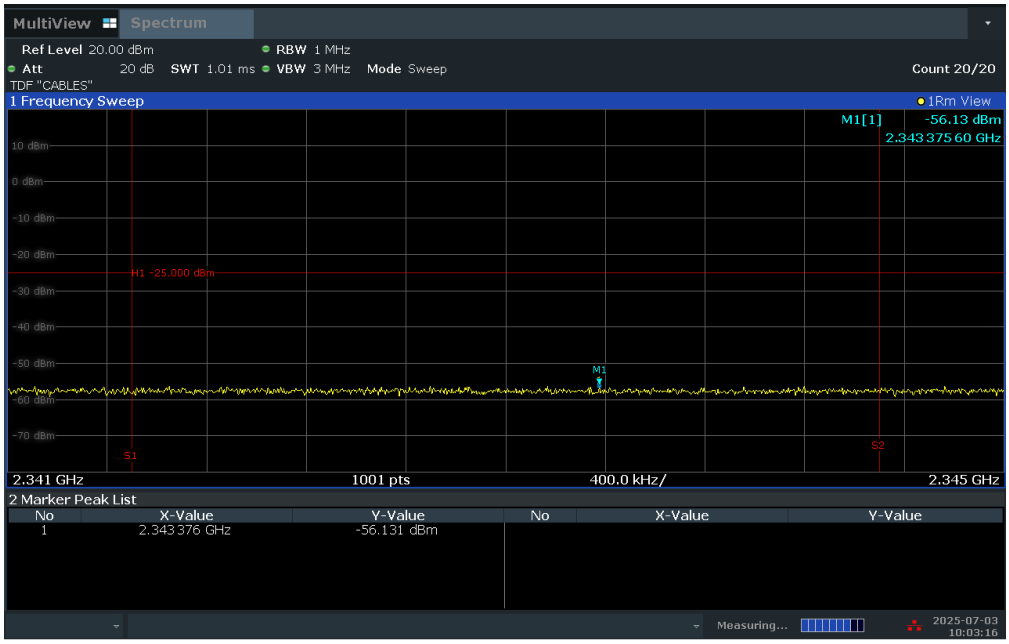
Plot 7-256. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



10:03:16 AM 07/03/2025

Plot 7-257. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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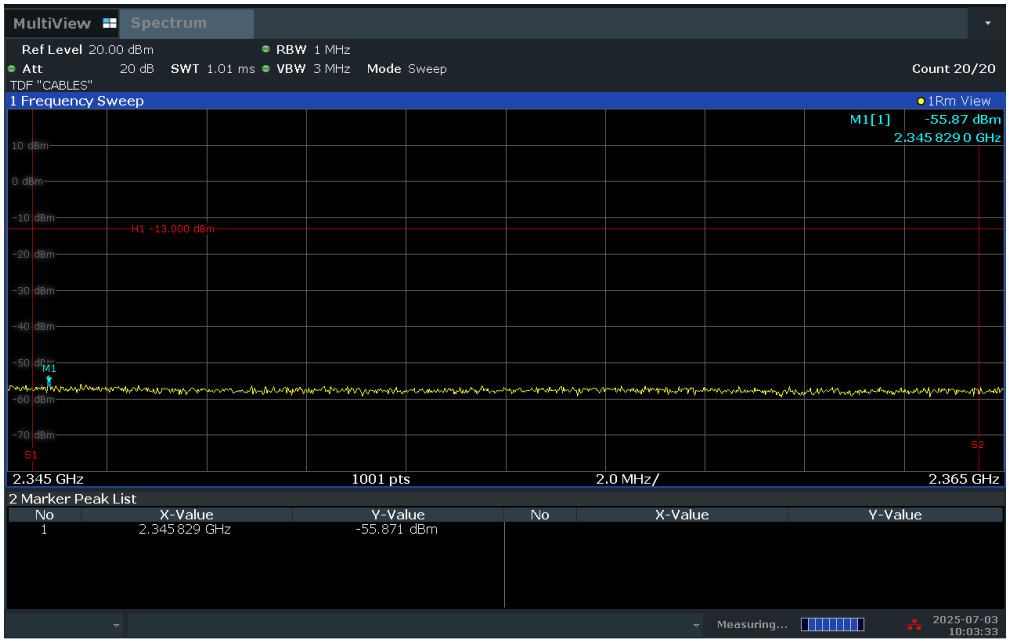

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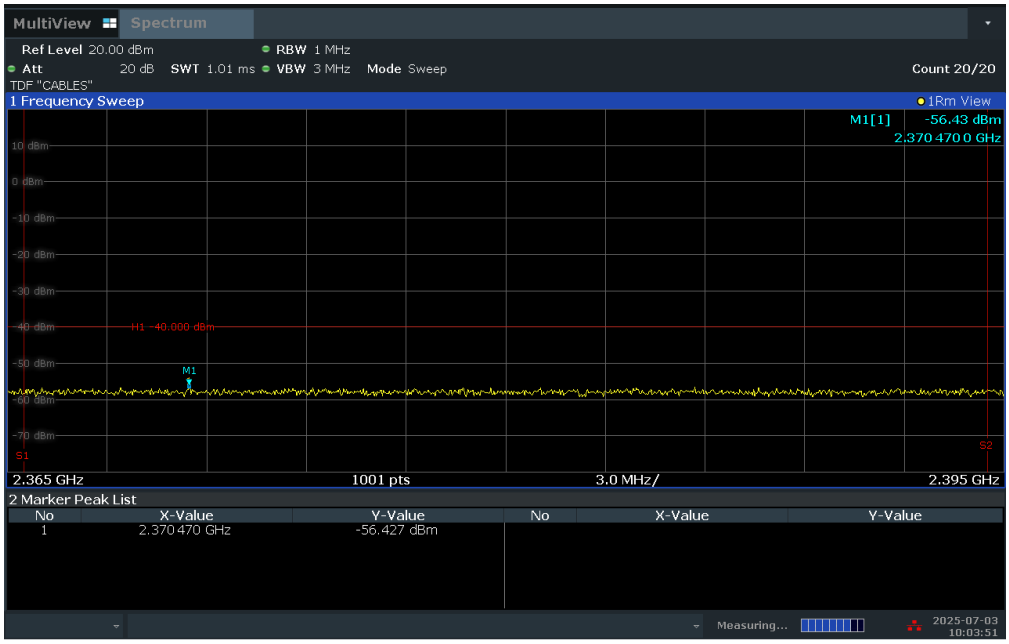
Plot 7-258. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



10:03:51 AM 07/03/2025

Plot 7-259. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)

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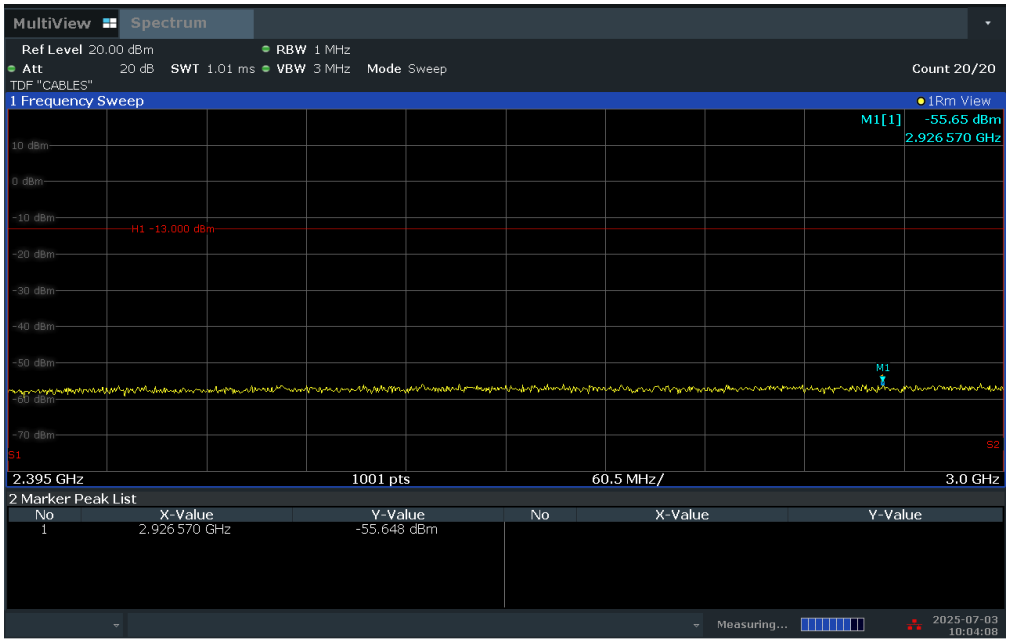
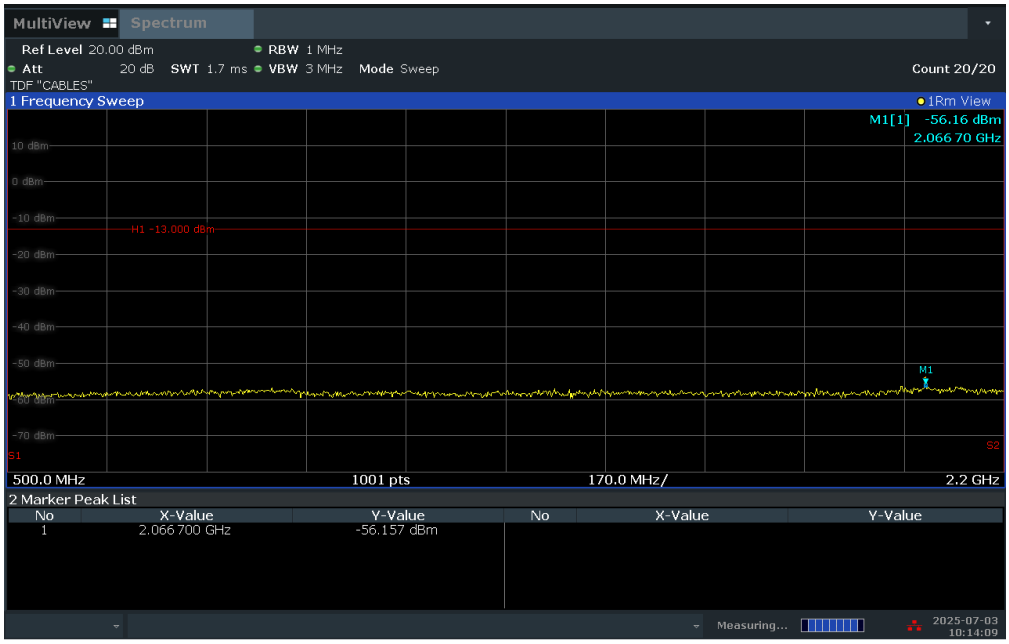


10:04:09 AM 07/03/2025

Plot 7-260. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB)



10:14:09 AM 07/03/2025

Plot 7-261. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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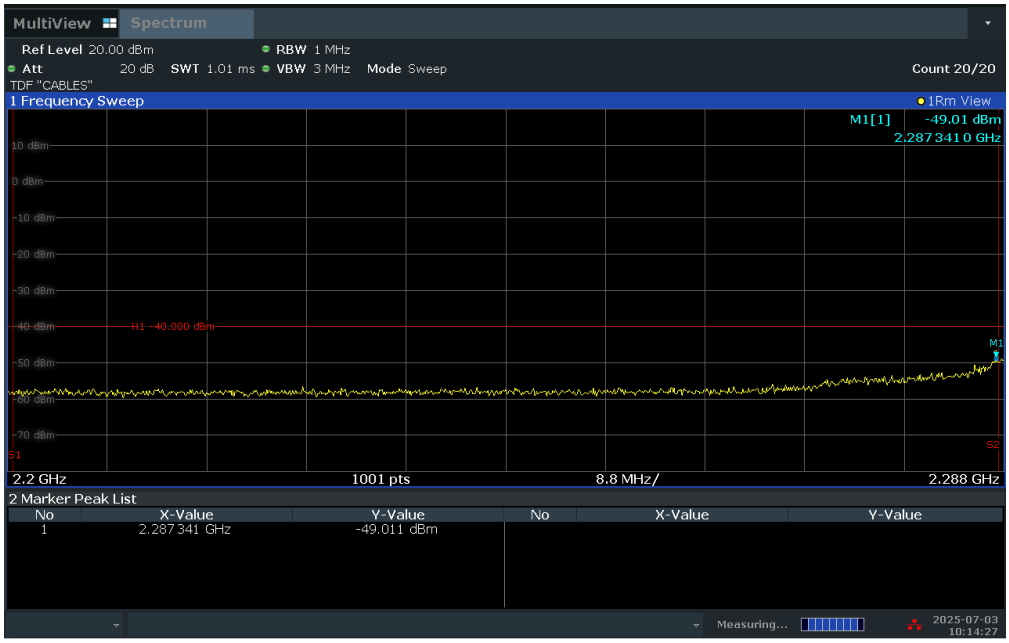

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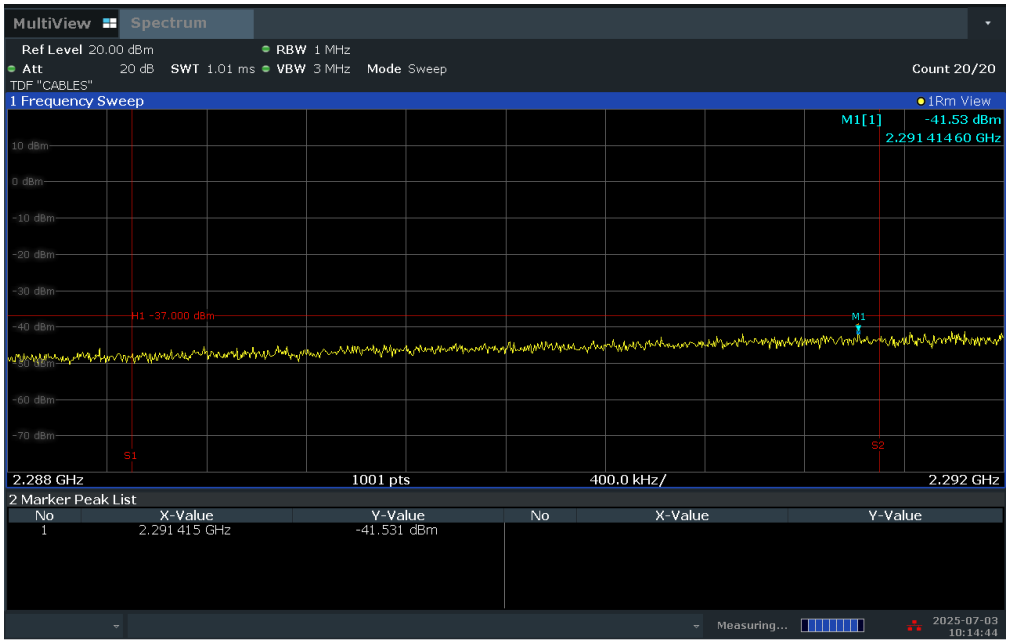
Plot 7-262. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



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Plot 7-263. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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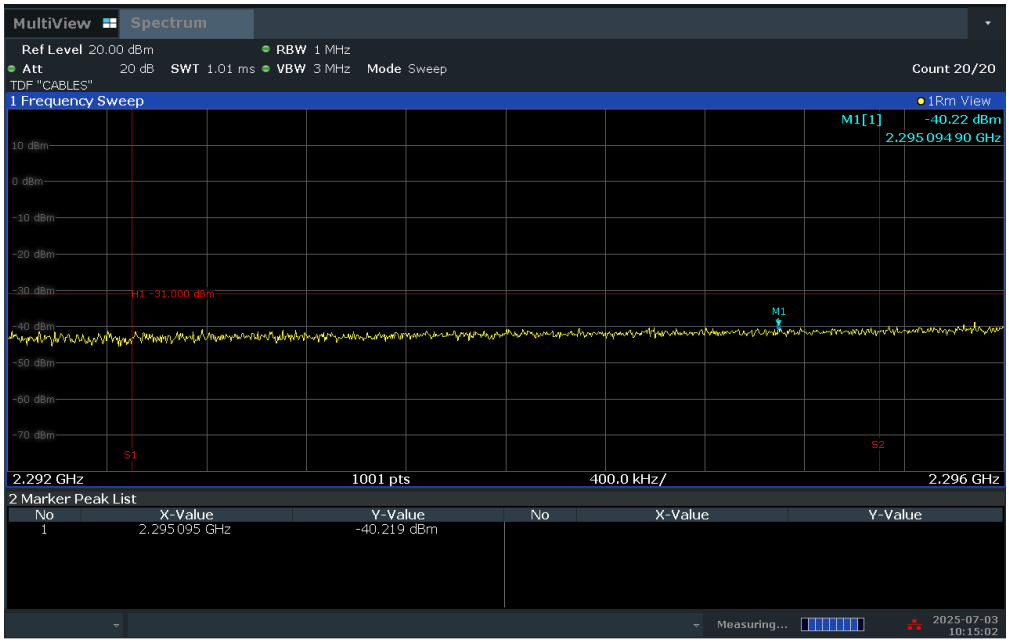

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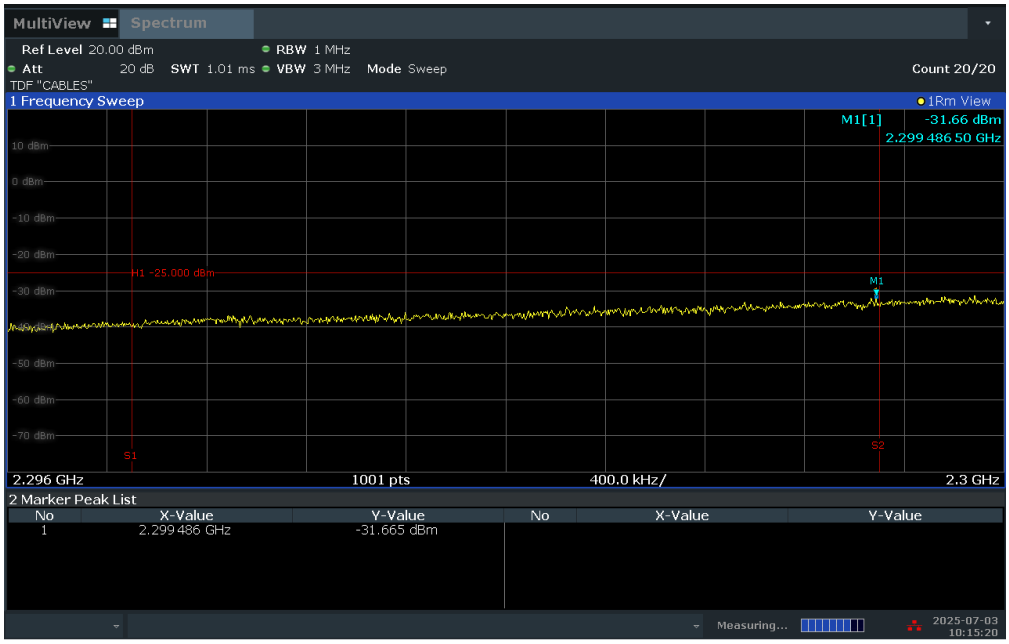
Plot 7-264. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



10:15:20 AM 07/03/2025

Plot 7-265. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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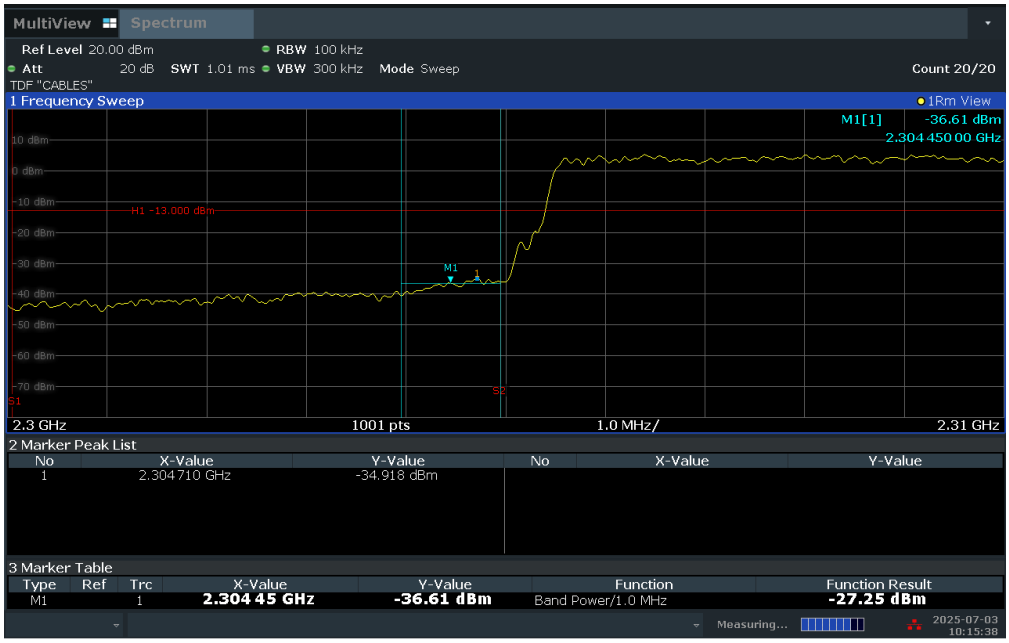

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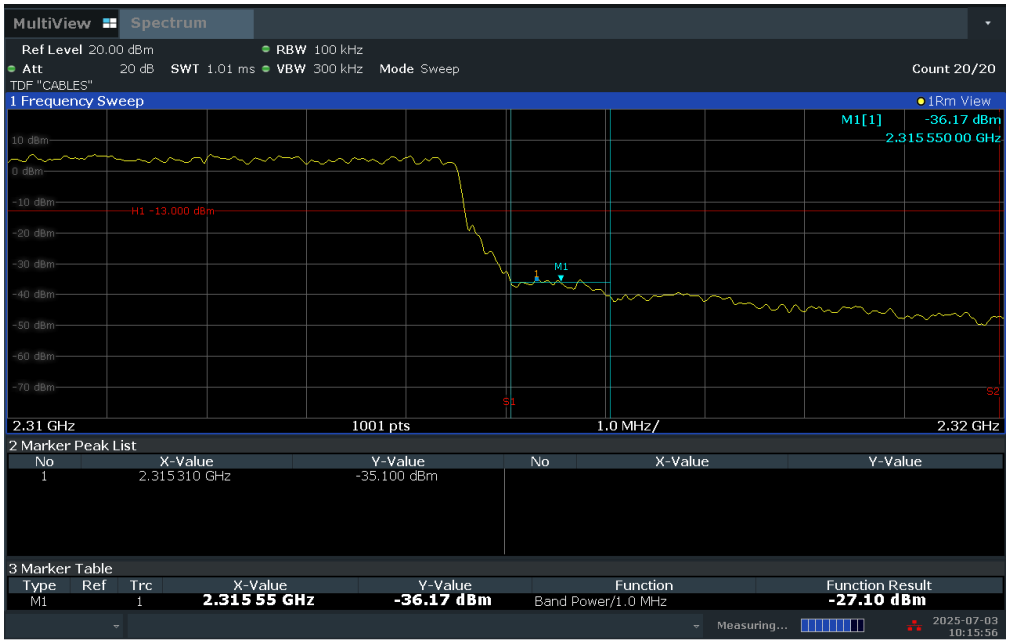
Plot 7-266. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



10:15:56 AM 07/03/2025

Plot 7-267. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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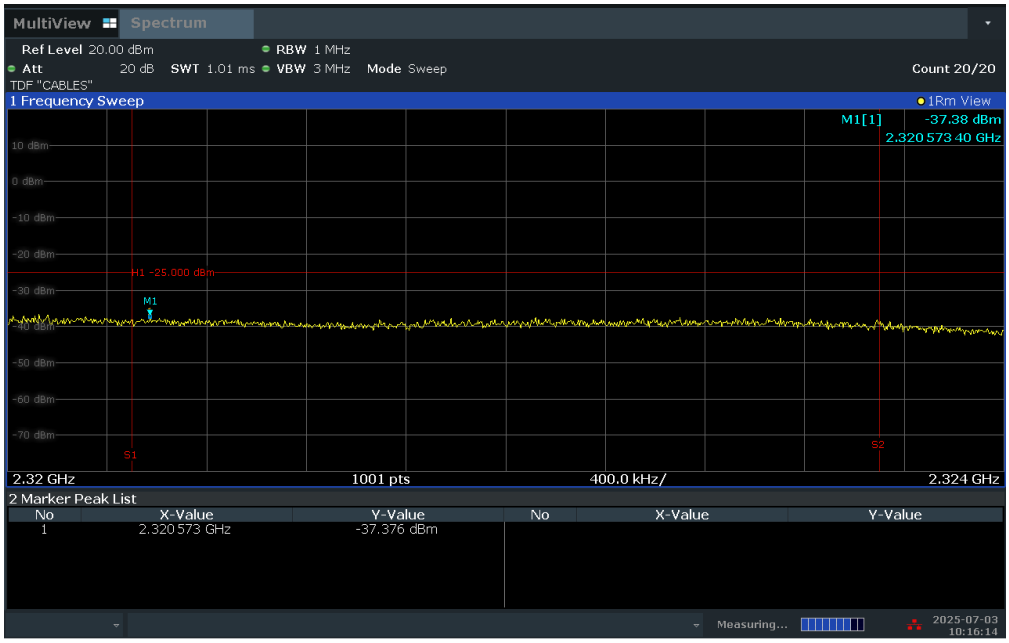

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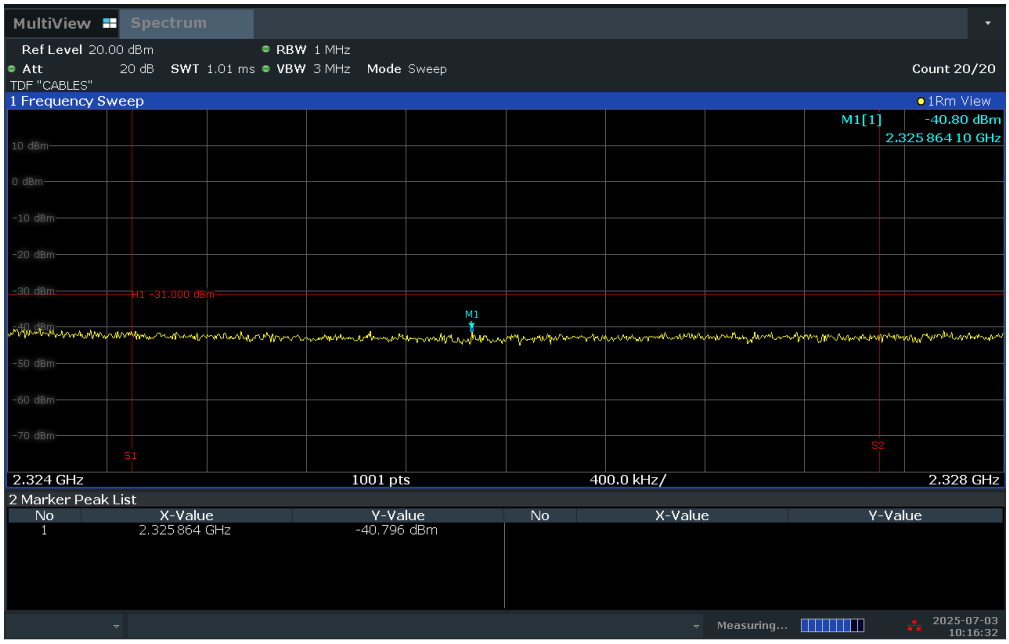
Plot 7-268. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



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Plot 7-269. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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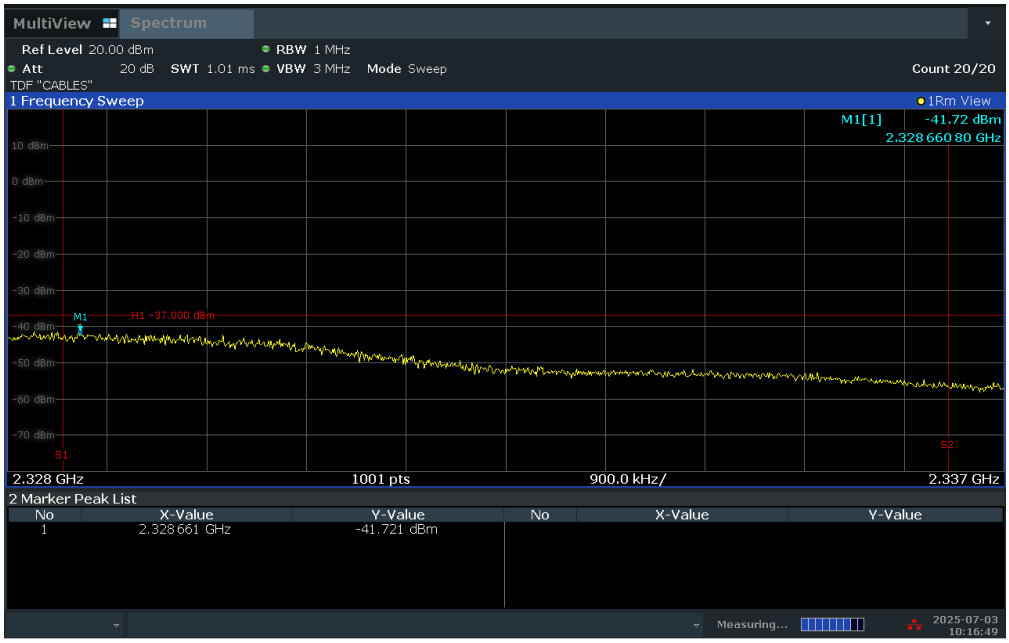

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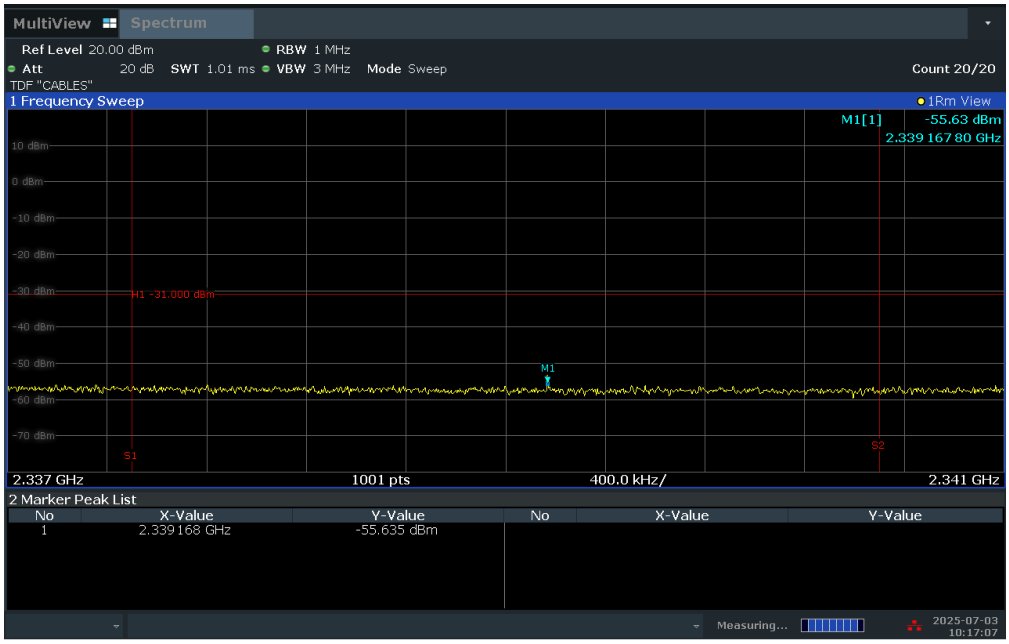
Plot 7-270. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



10:17:08 AM 07/03/2025

Plot 7-271. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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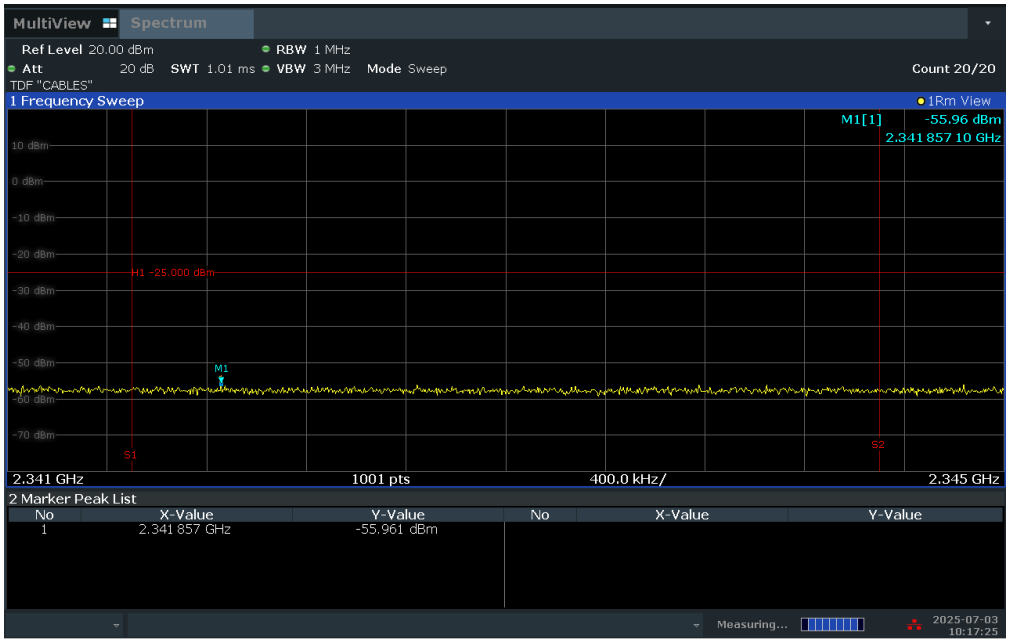

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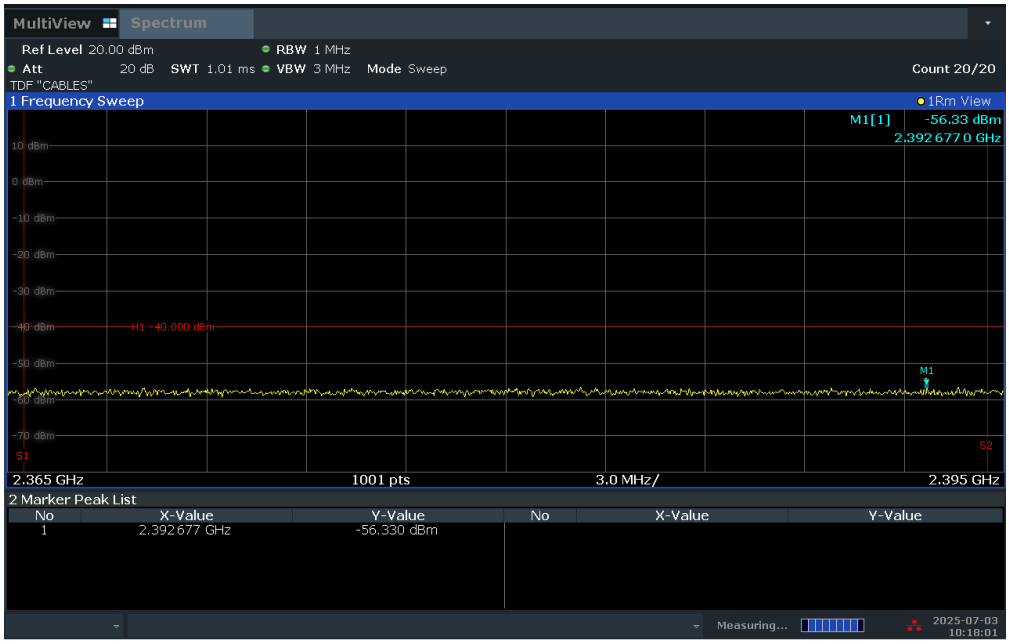
Plot 7-272. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)



10:18:01 AM 07/03/2025

Plot 7-273. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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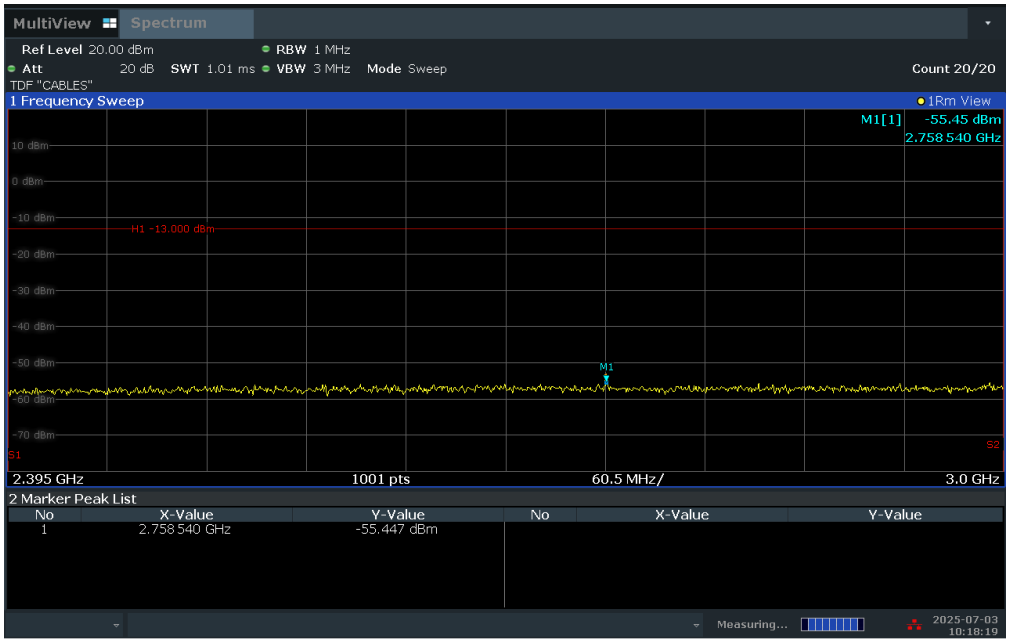

10:18:19 AM 07/03/2025

Plot 7-274. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB)

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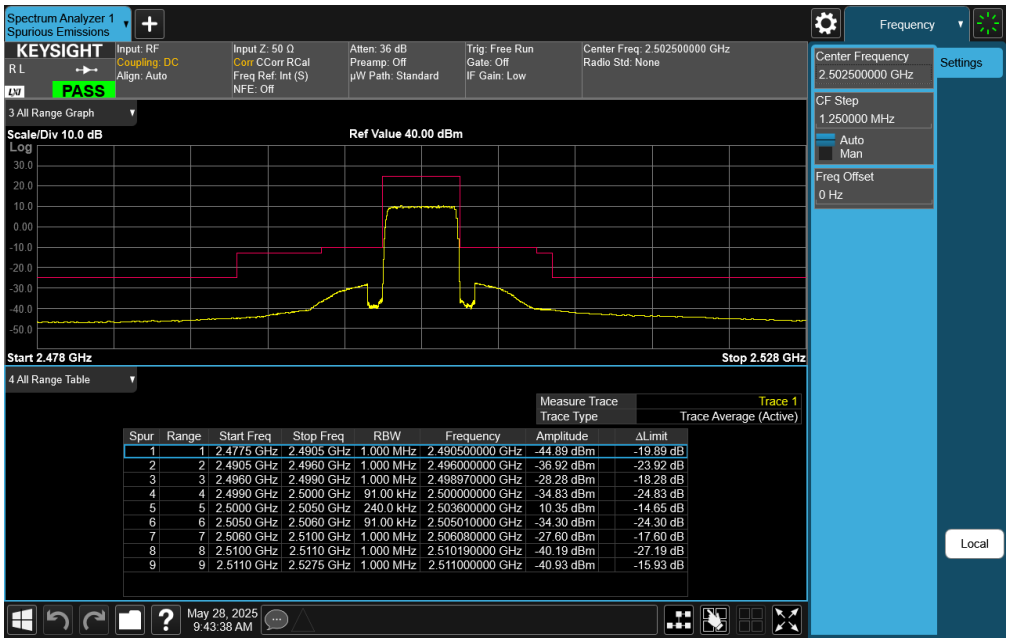
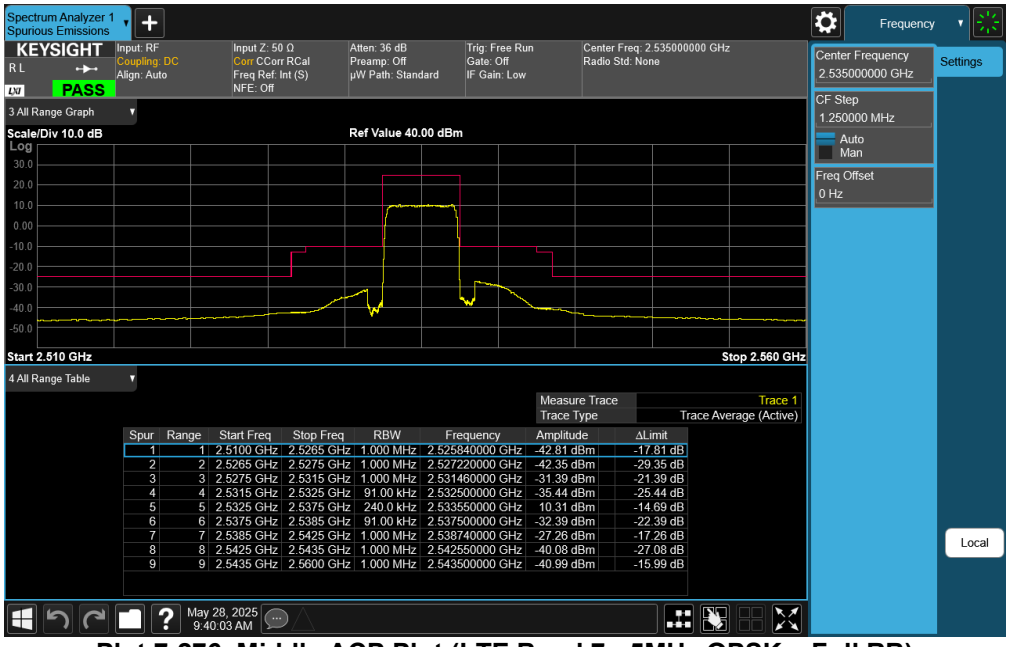
LTE Band 7



Plot 7-275. Lower ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)



Plot 7-276. Middle ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)

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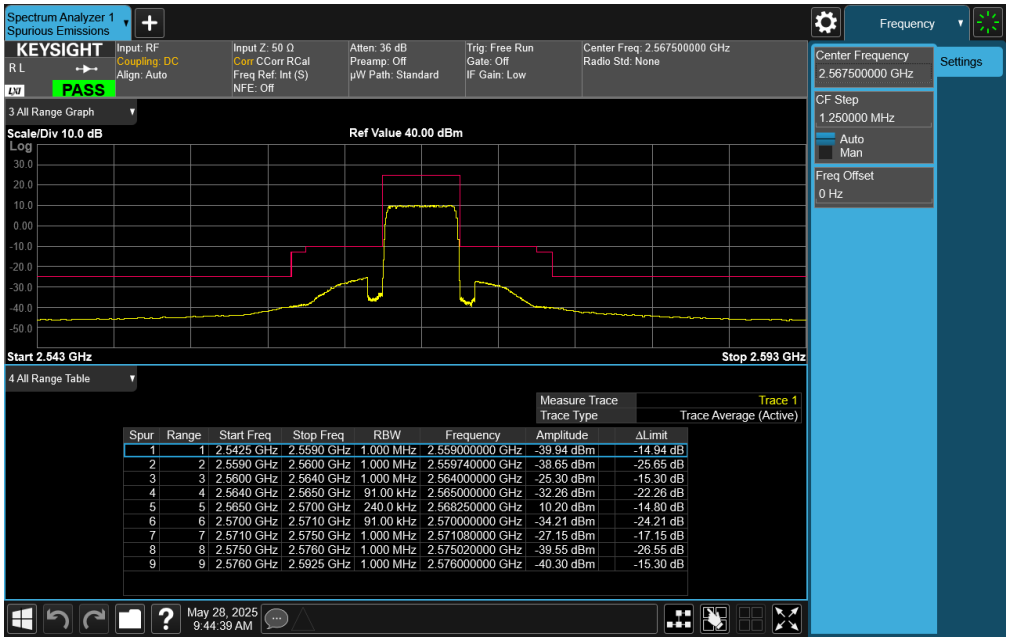
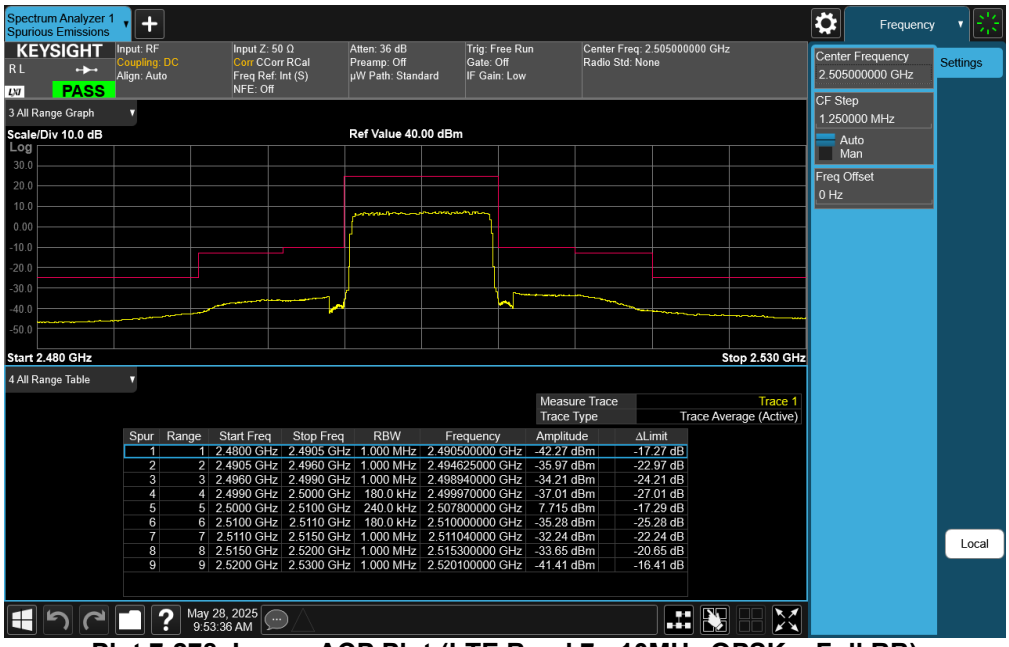


Plot 7-277. Upper ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB)



Plot 7-278. Lower ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)

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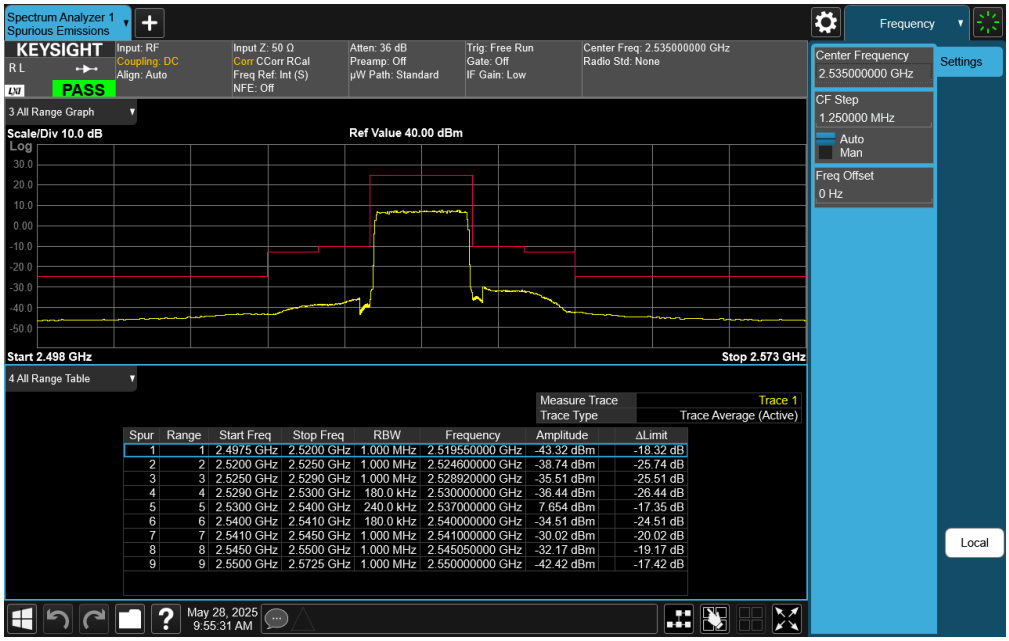
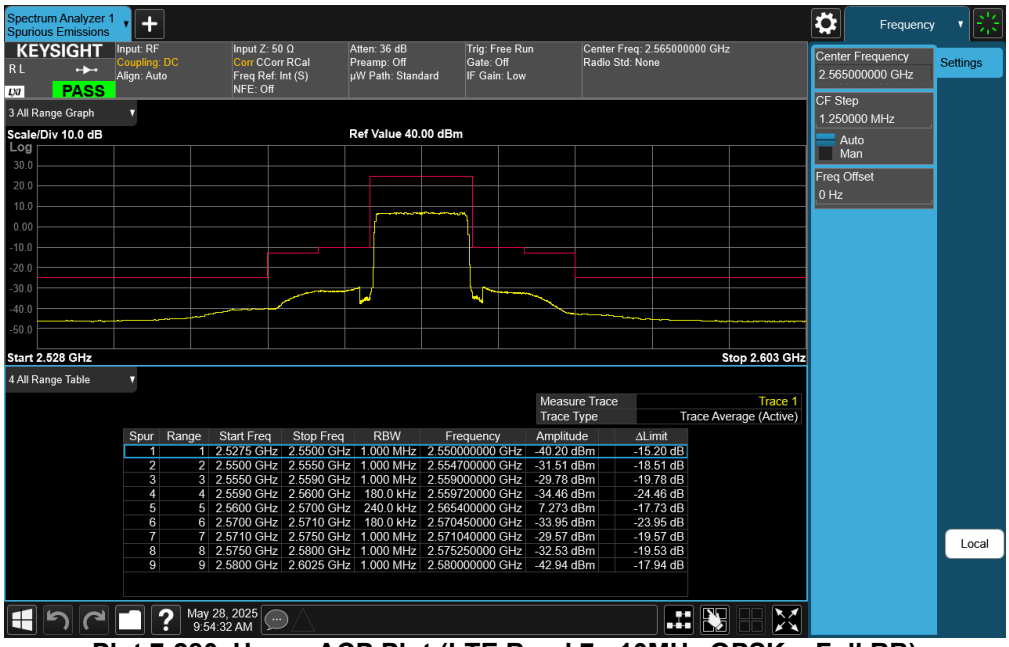


Plot 7-279. Middle ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)



Plot 7-280. Upper ACP Plot (LTE Band 7 - 10MHz QPSK – Full RB)

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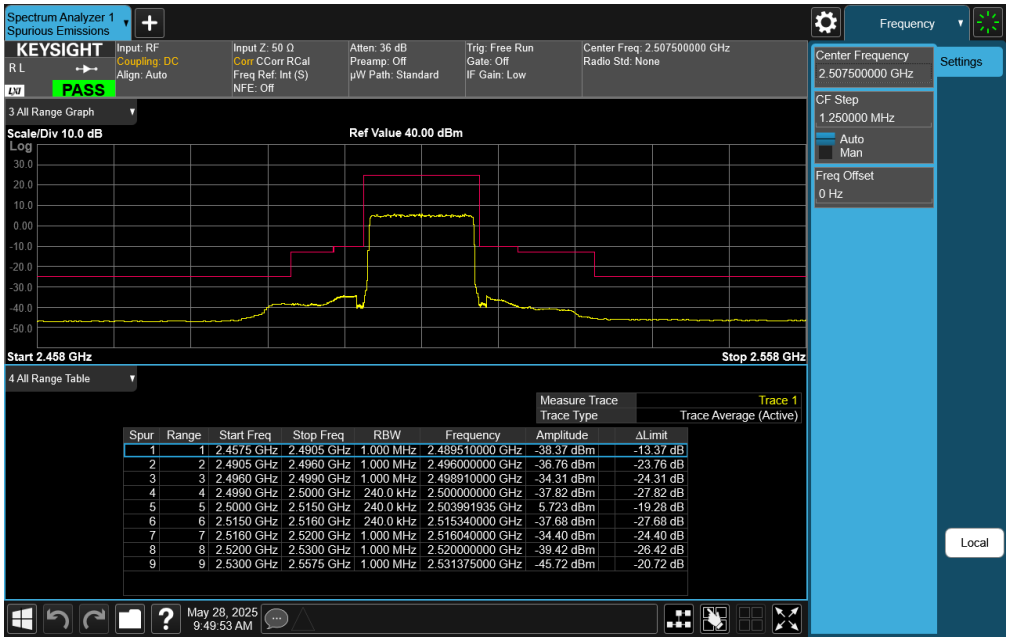
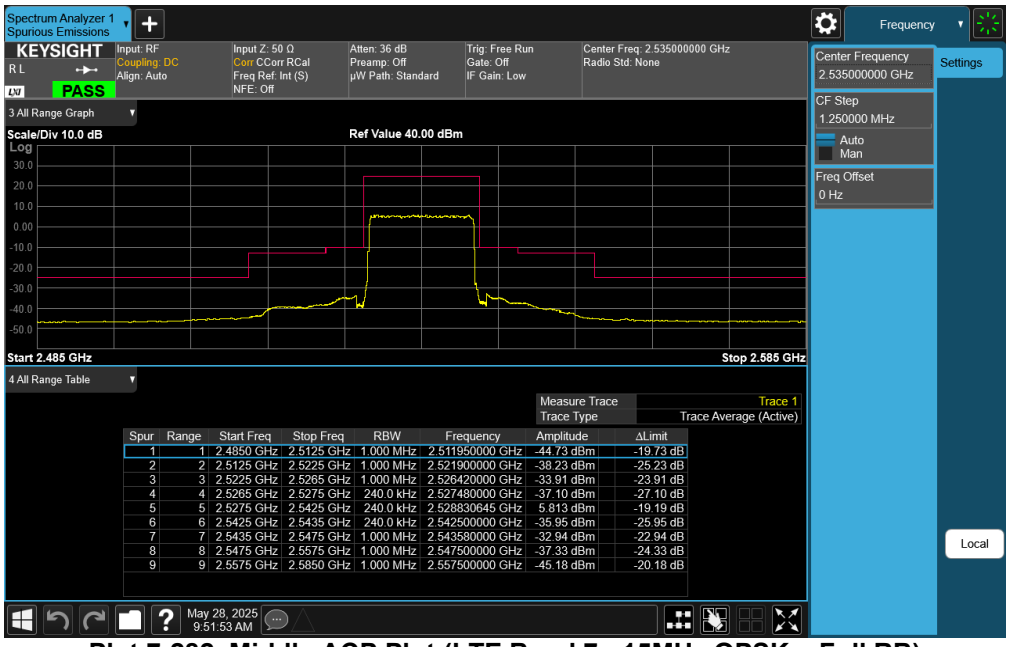


Plot 7-281. Lower ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)



Plot 7-282. Middle ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)

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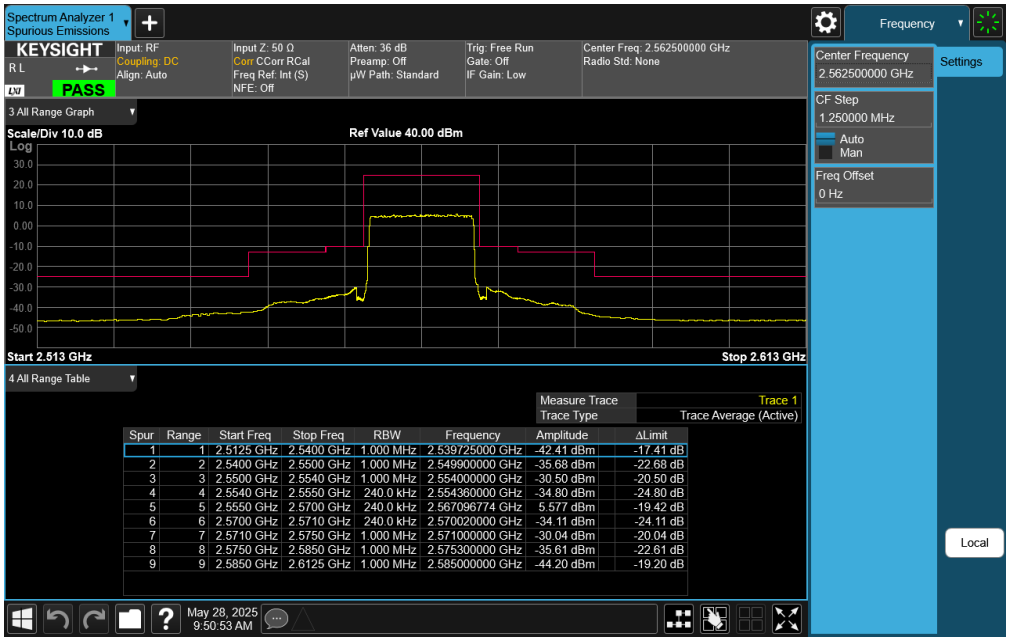
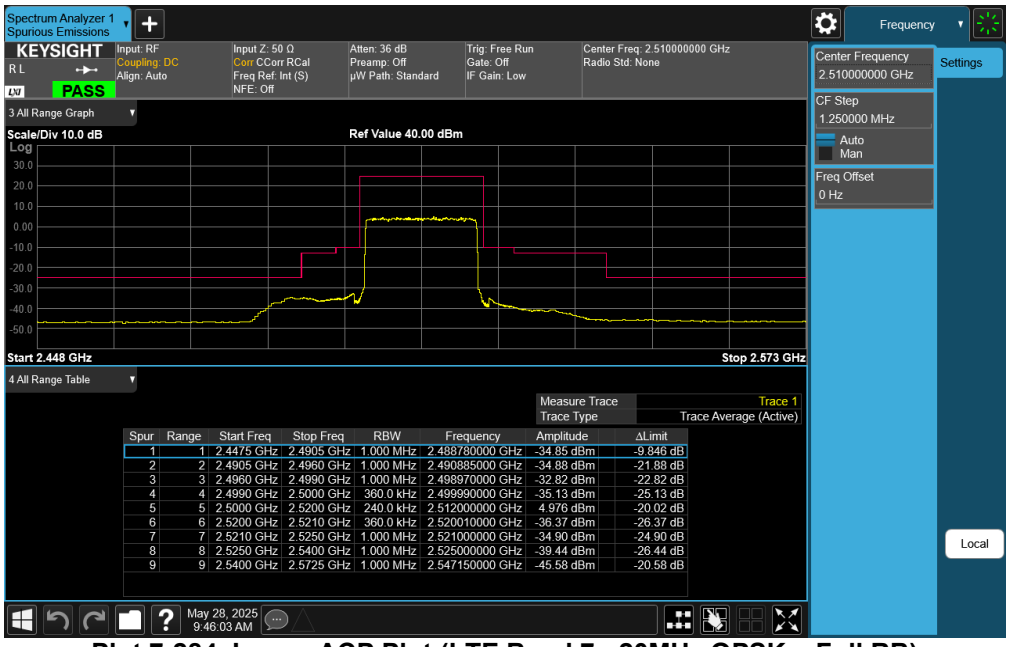


Plot 7-283. Upper ACP Plot (LTE Band 7 - 15MHz QPSK – Full RB)



Plot 7-284. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)

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