

Plot 7-160. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant E)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 102 of 344

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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.

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

For Band 30, the minimum permissible attenuation level of any spurious emission <228MHz and >2365MHz is $70 + 10 \log_{10}(P_{[Watts]})$.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

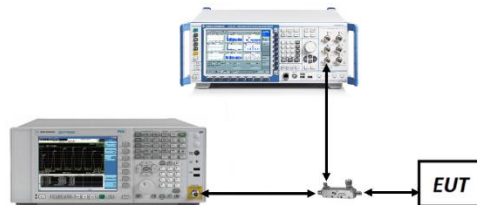


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

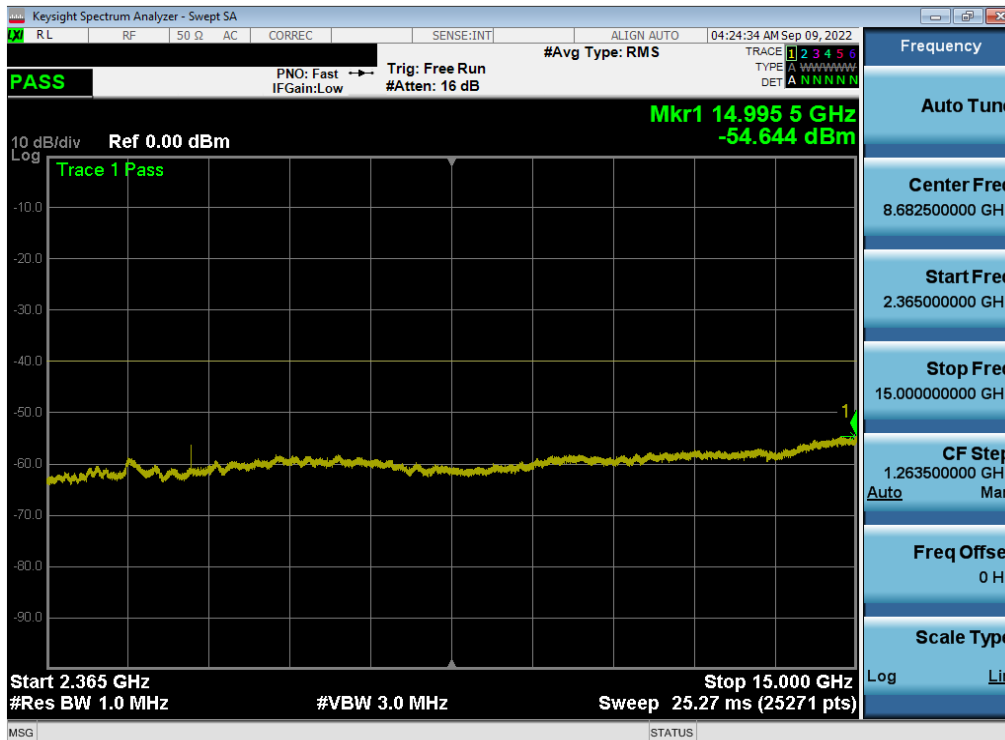
1. Per Part 27, RSS-195 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine 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 – Ant A



Plot 7-161. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)



Plot 7-162. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)

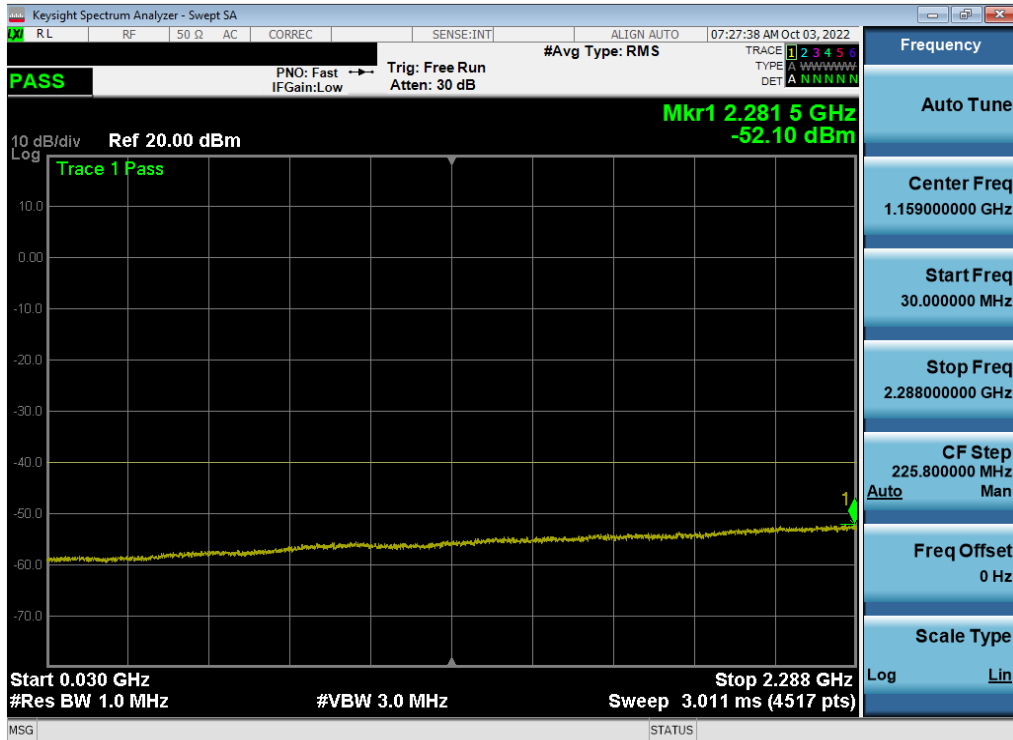
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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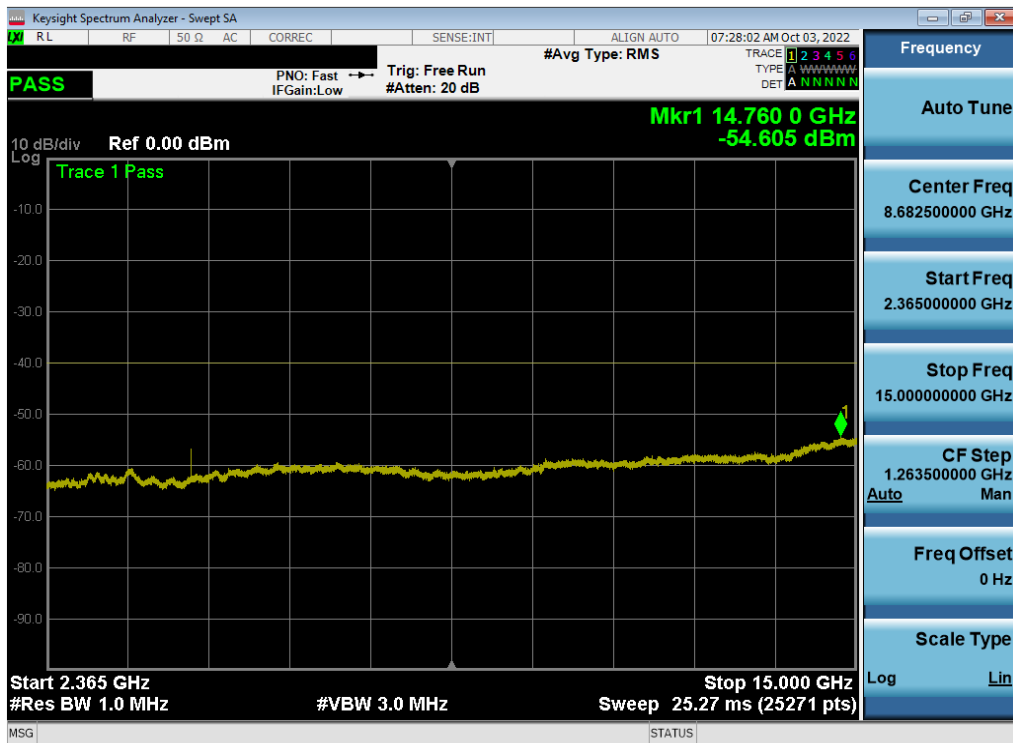
Plot 7-163. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant A)

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LTE Band 30 – Ant F

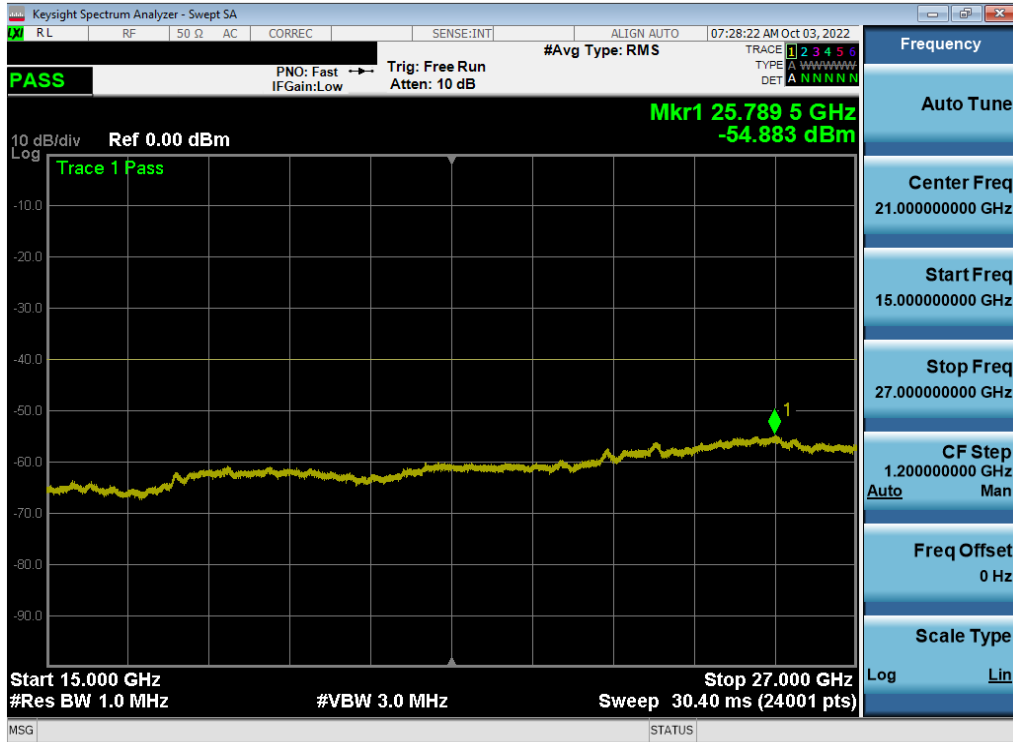


Plot 7-164. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)



Plot 7-165. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

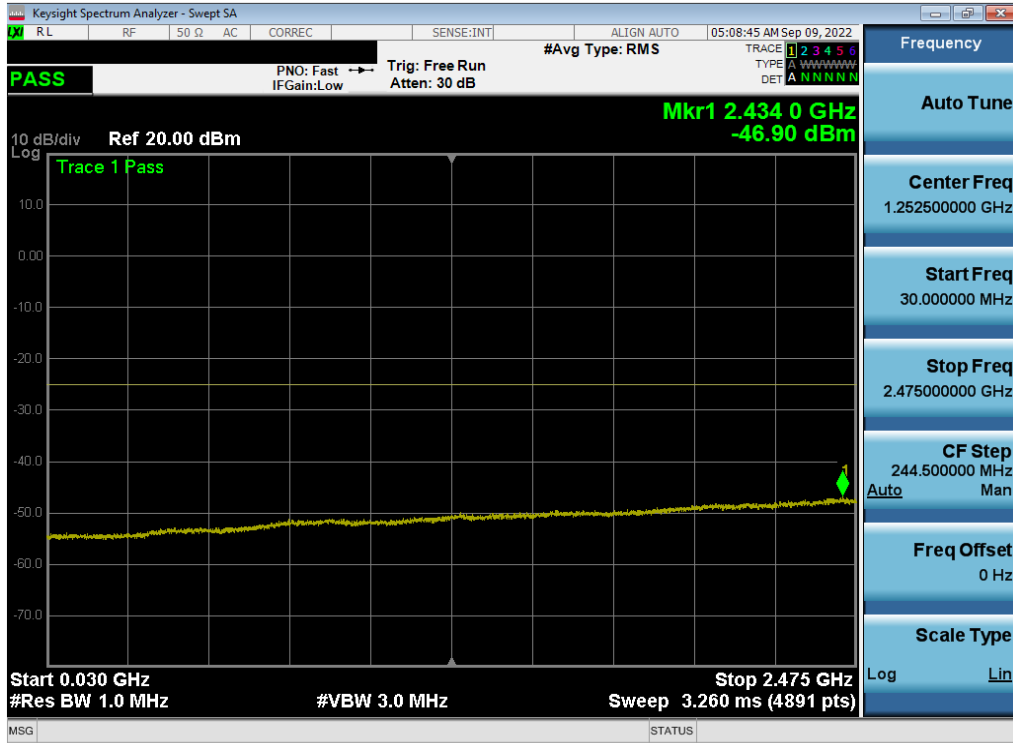
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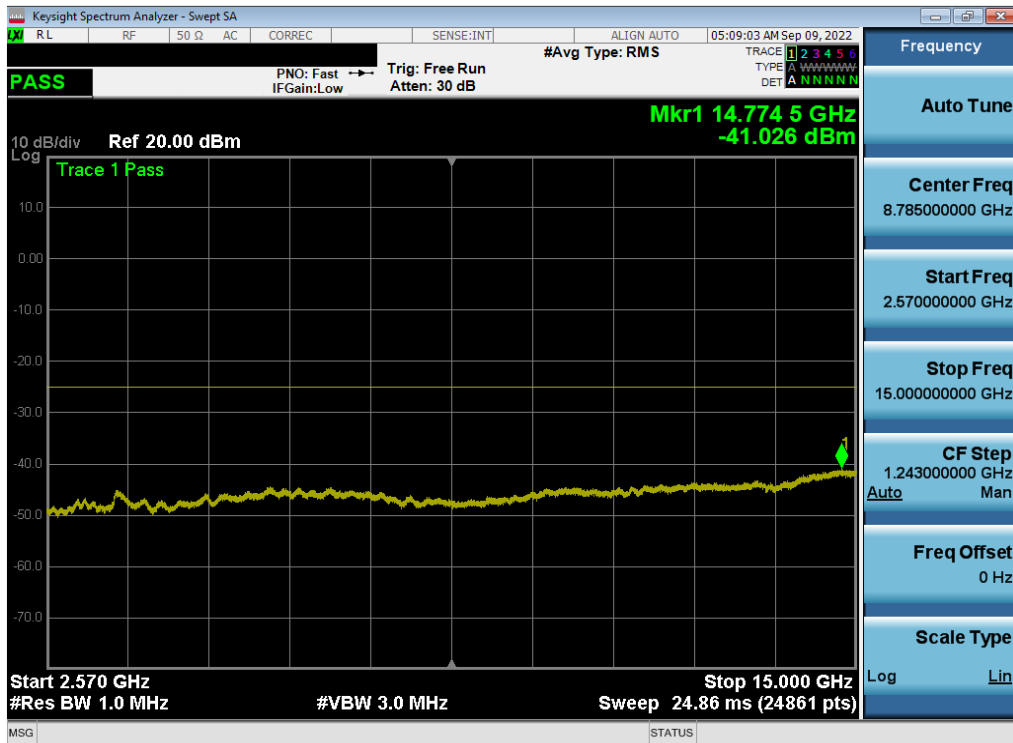
Plot 7-166. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant F)

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LTE Band 7 – Ant B



Plot 7-167. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-168. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

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Plot 7-169. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

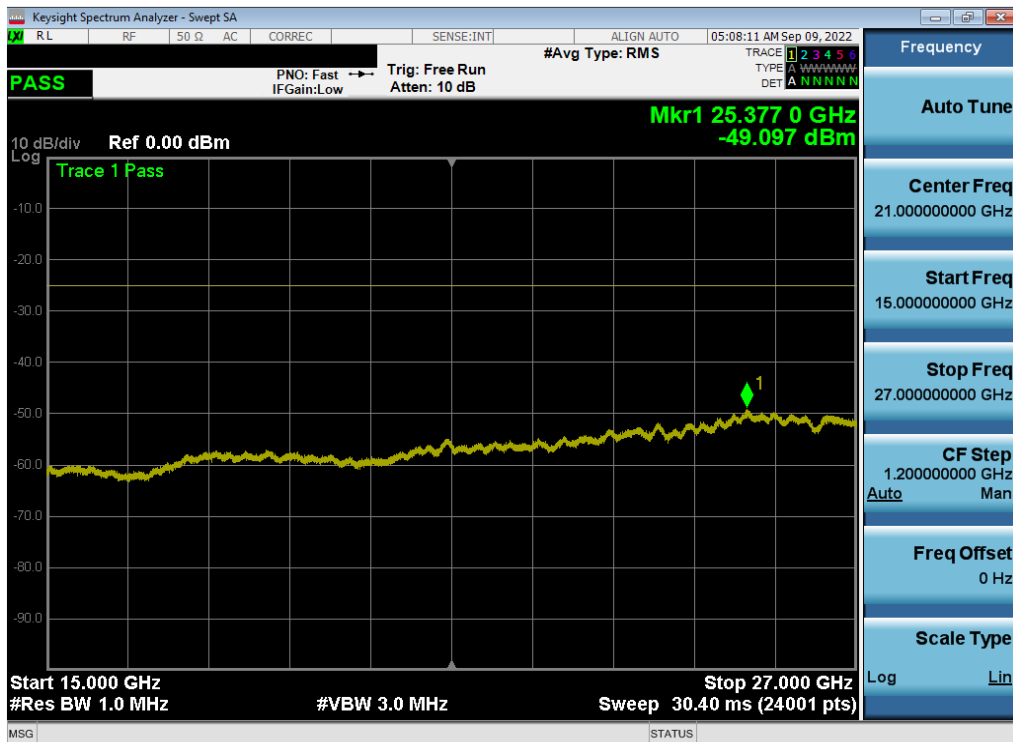


Plot 7-170. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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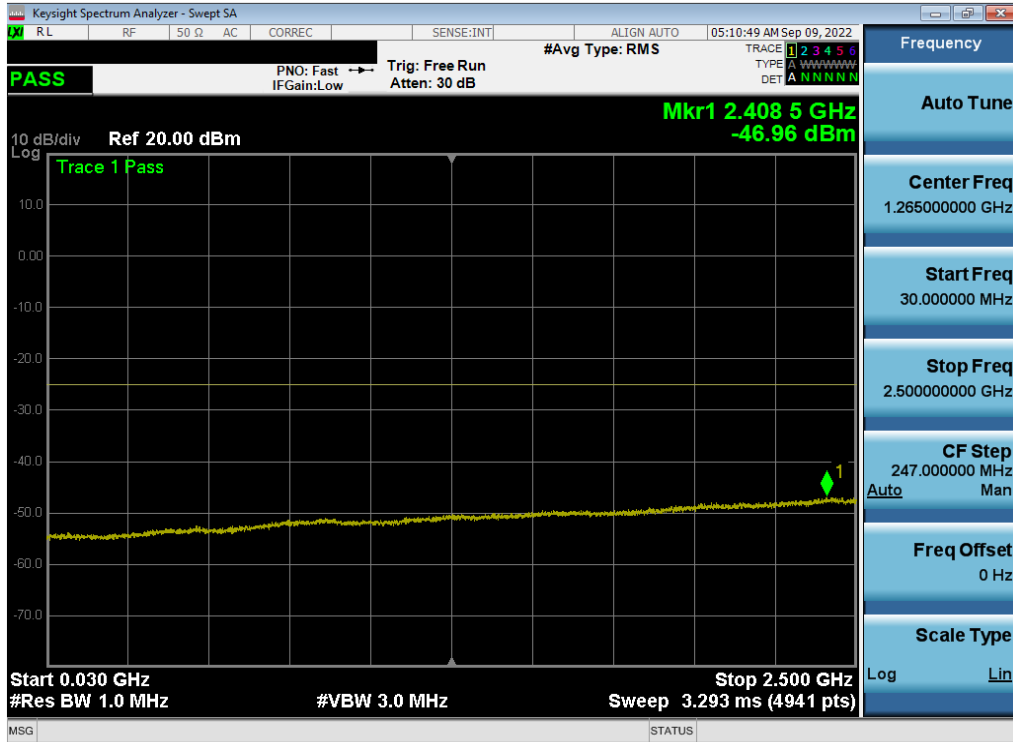


Plot 7-171. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

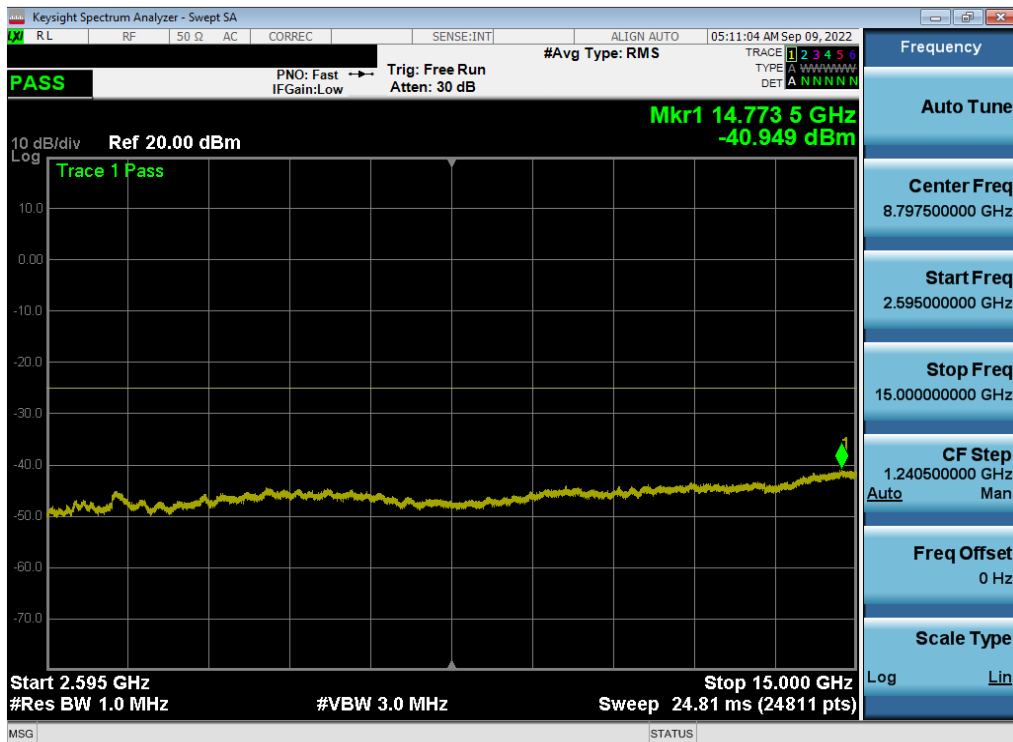


Plot 7-172. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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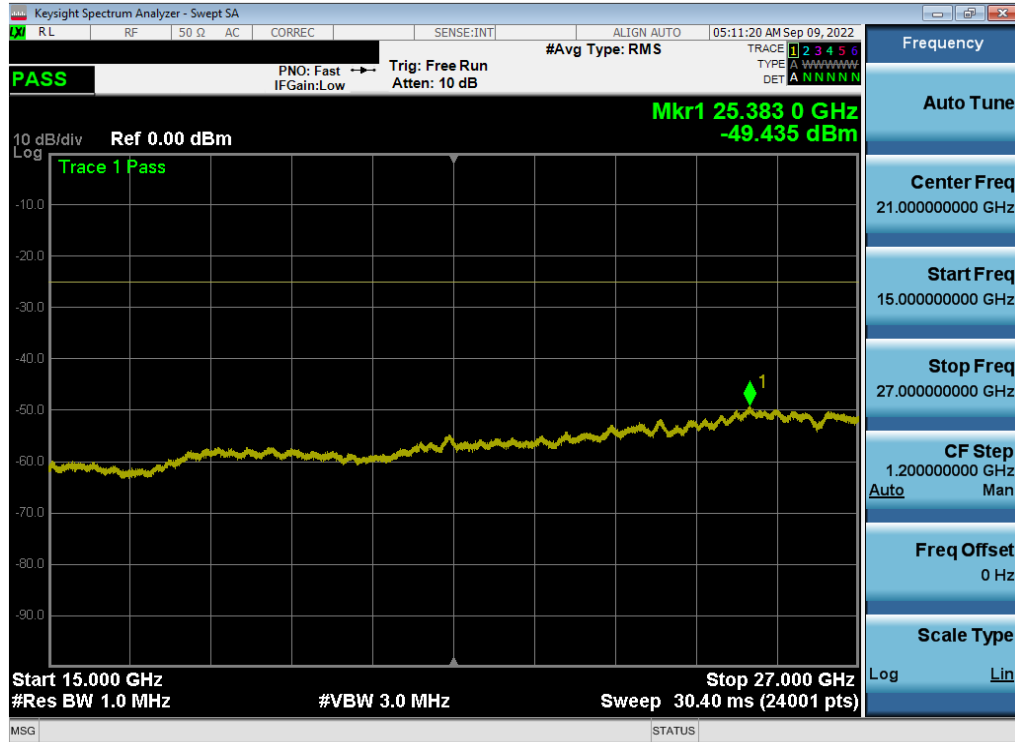


Plot 7-173. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-174. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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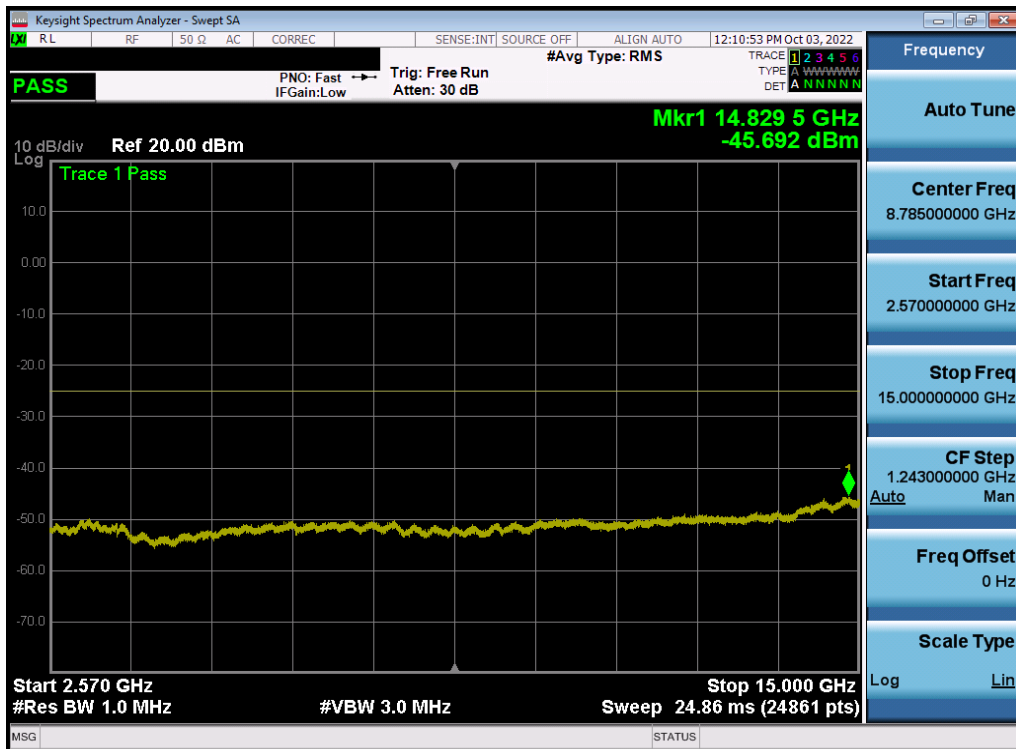
Plot 7-175. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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LTE Band 7 – Ant F

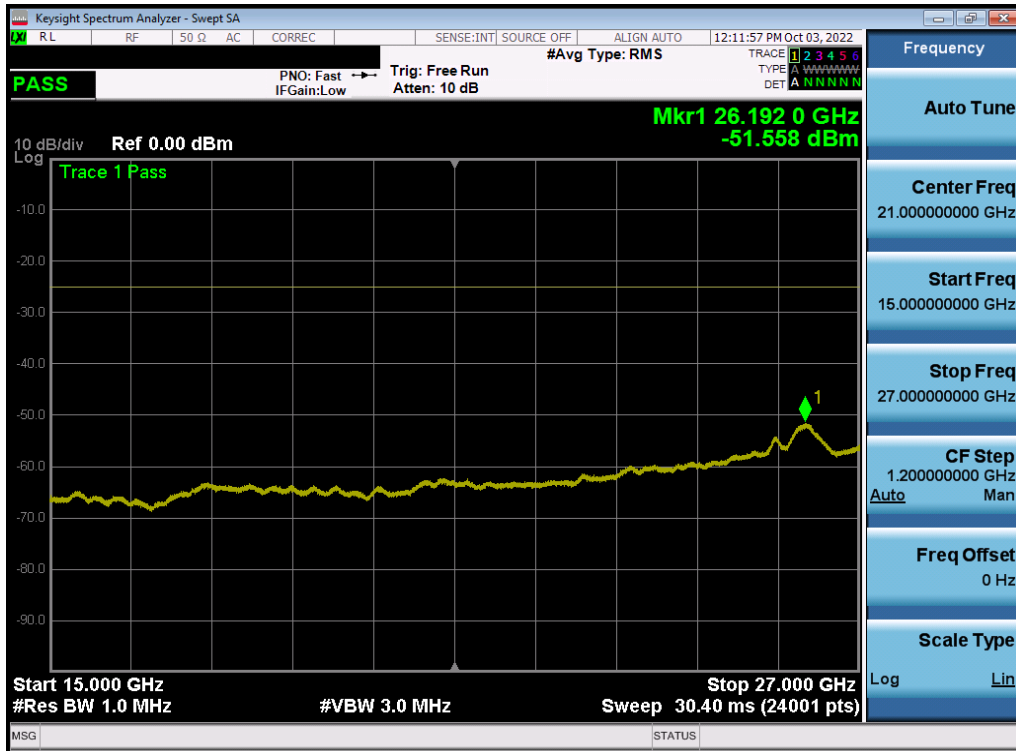


Plot 7-176. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



Plot 7-177. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

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Plot 7-178. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

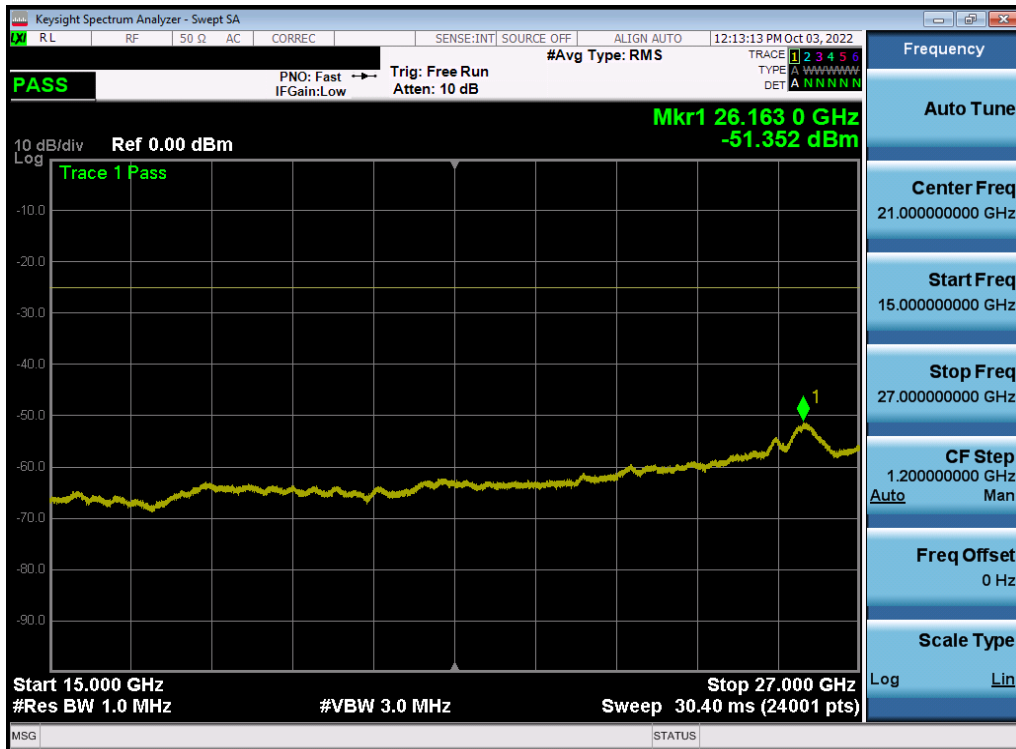


Plot 7-179. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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Plot 7-180. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

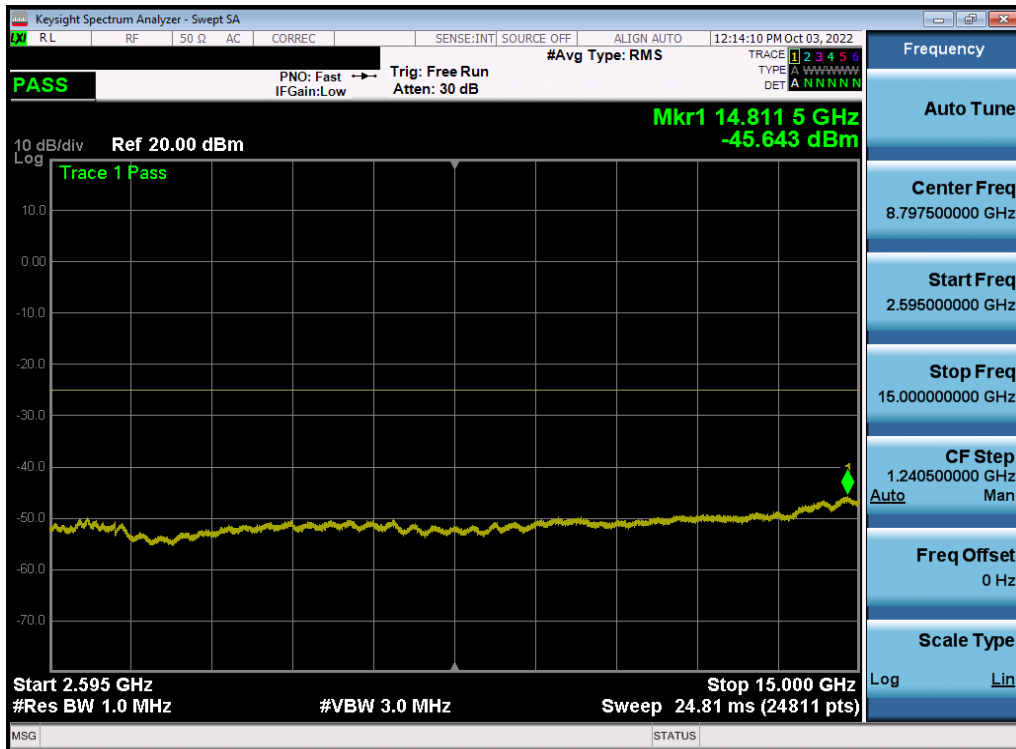


Plot 7-181. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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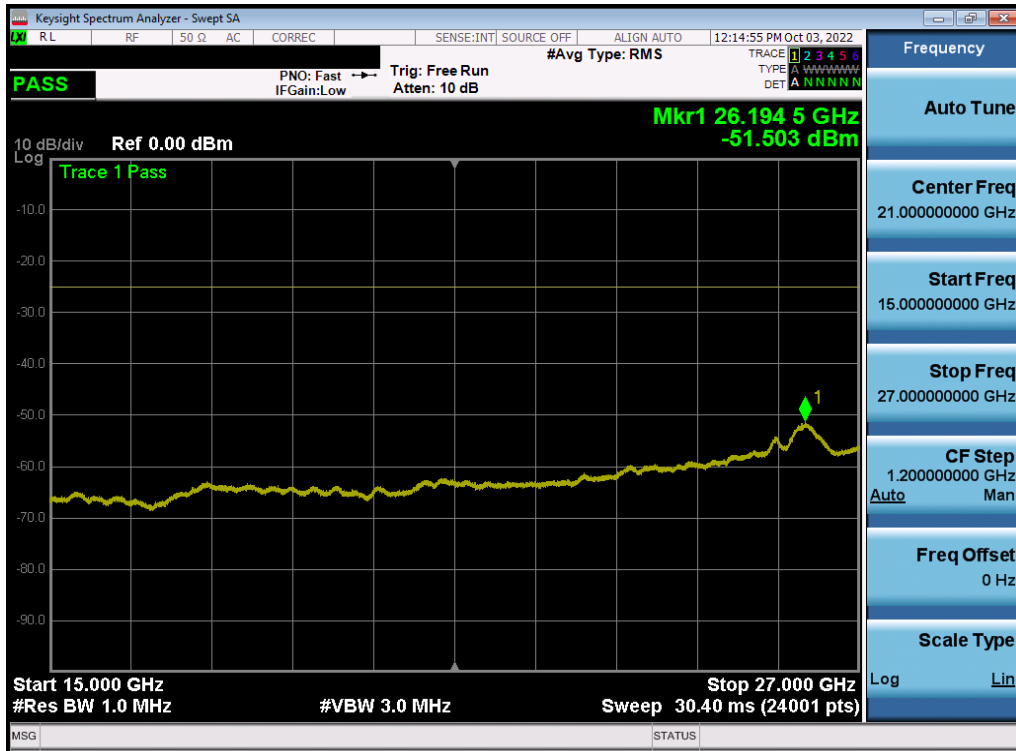


Plot 7-182. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-183. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

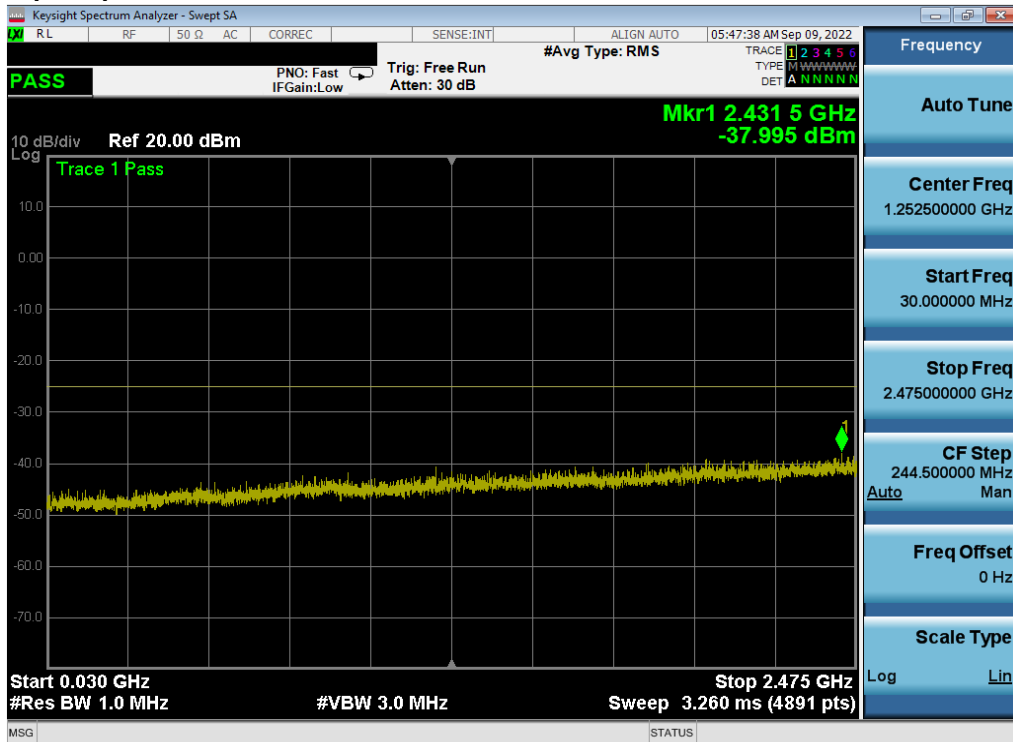
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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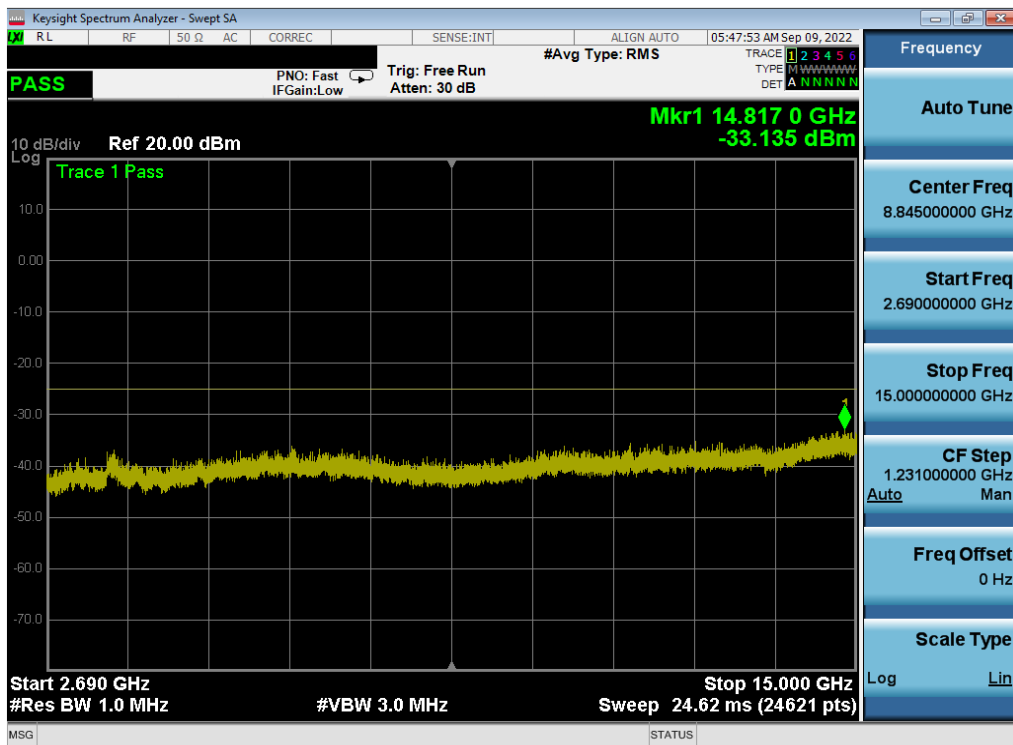
Plot 7-184. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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LTE Band 41(PC2) – Ant F

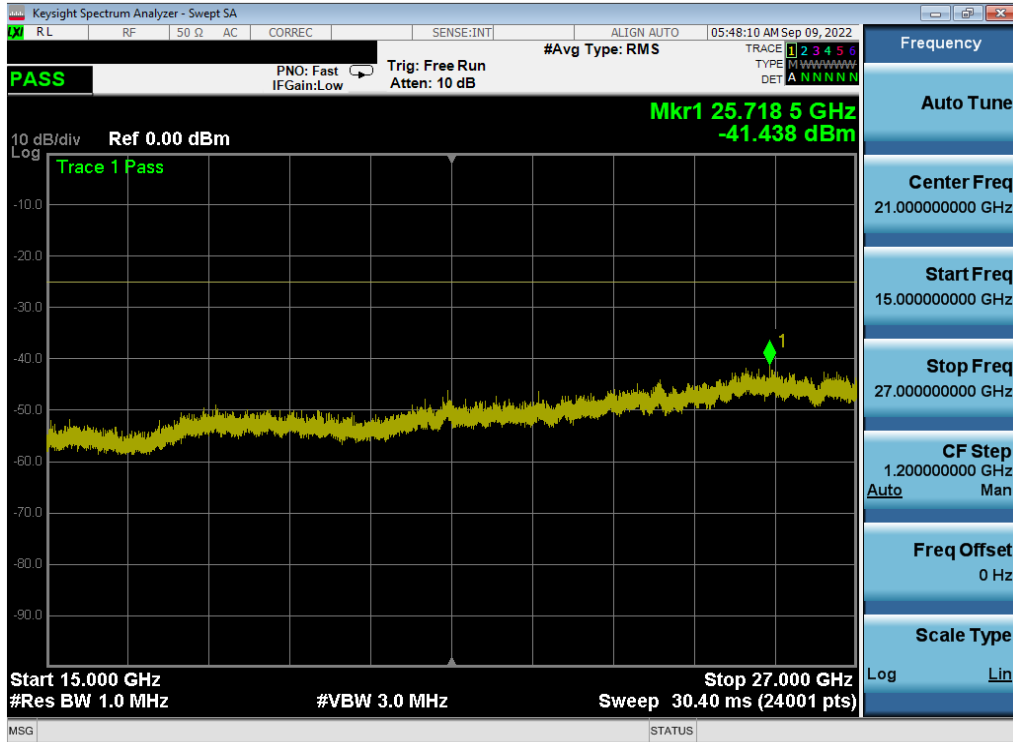


Plot 7-185. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel – Ant F)

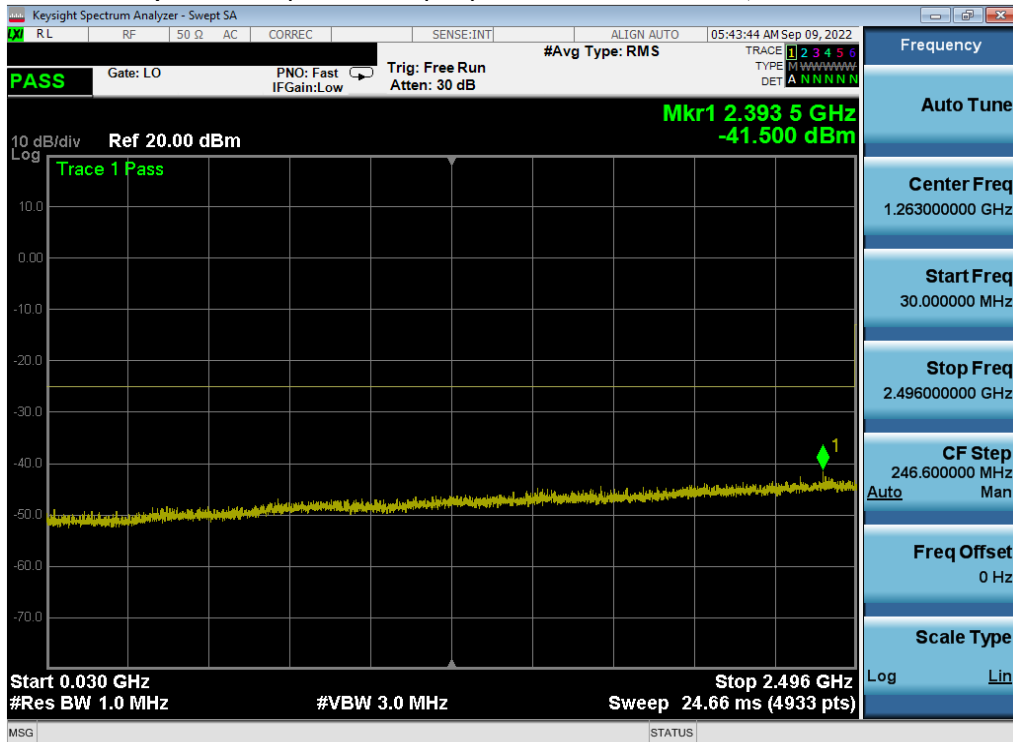


Plot 7-186. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

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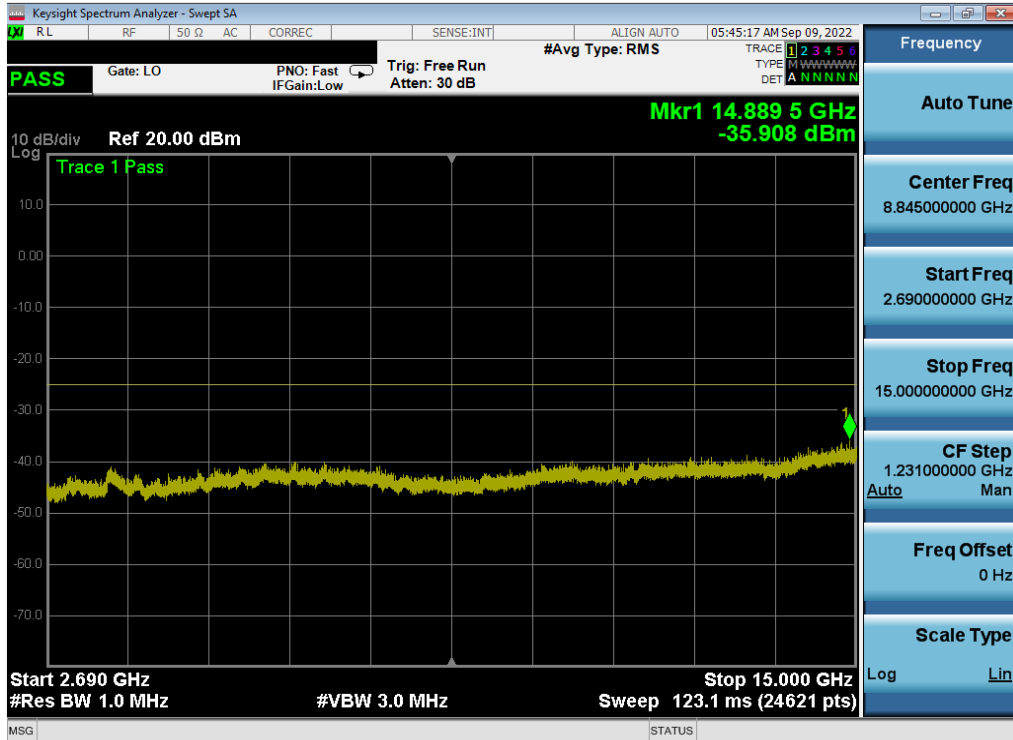


Plot 7-187. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

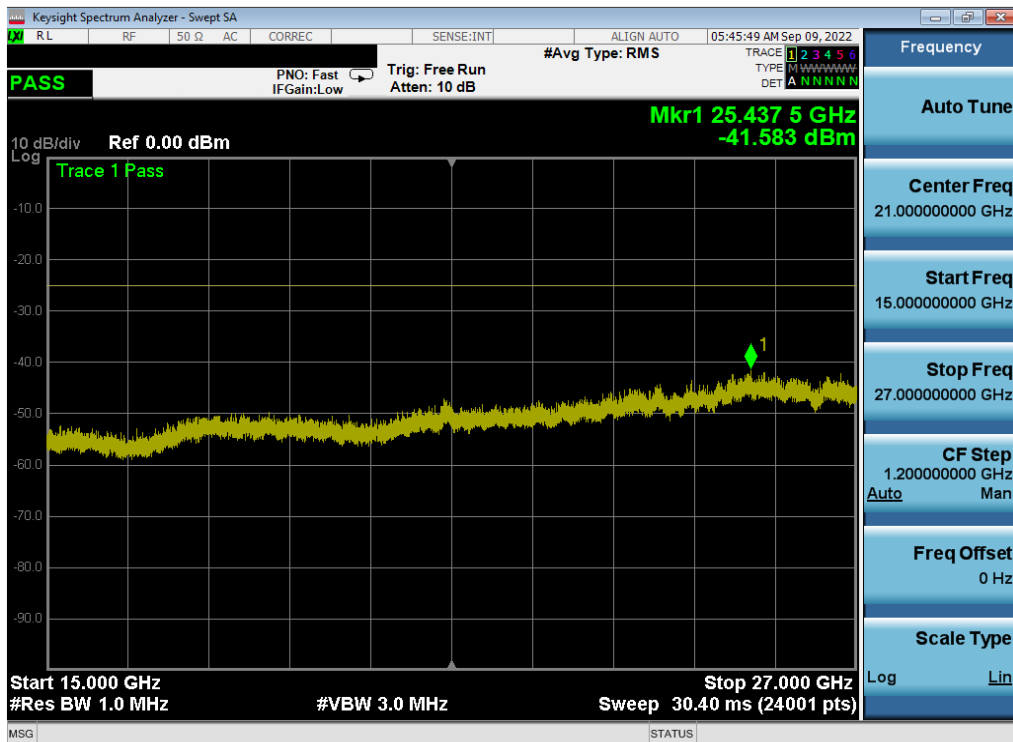


Plot 7-188. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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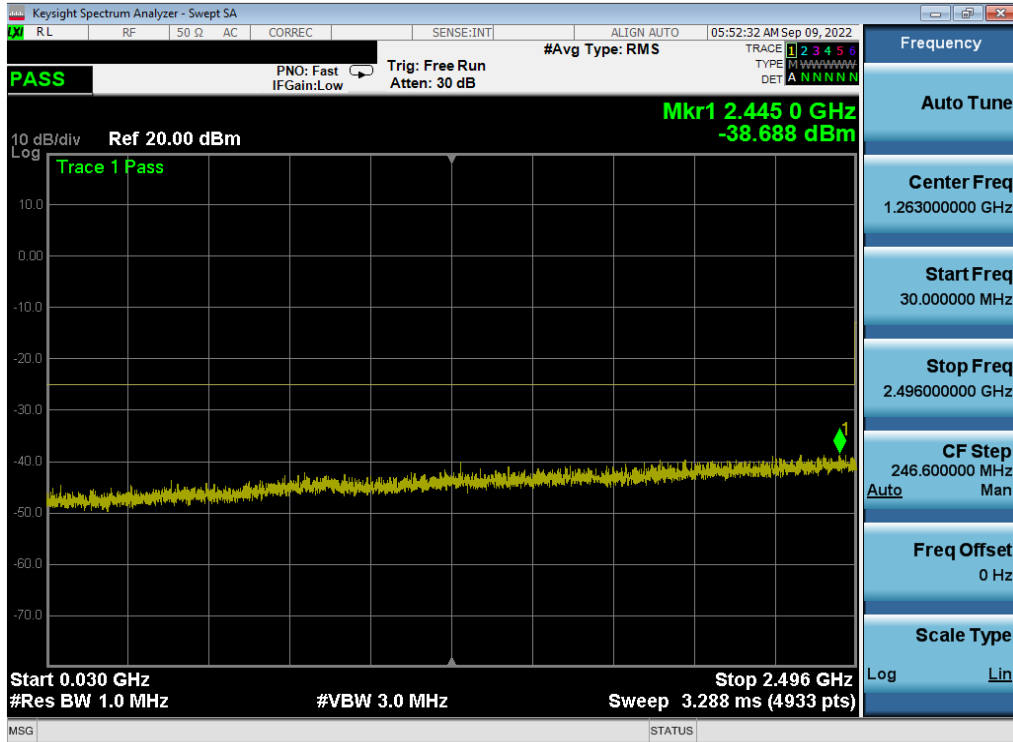


Plot 7-189. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

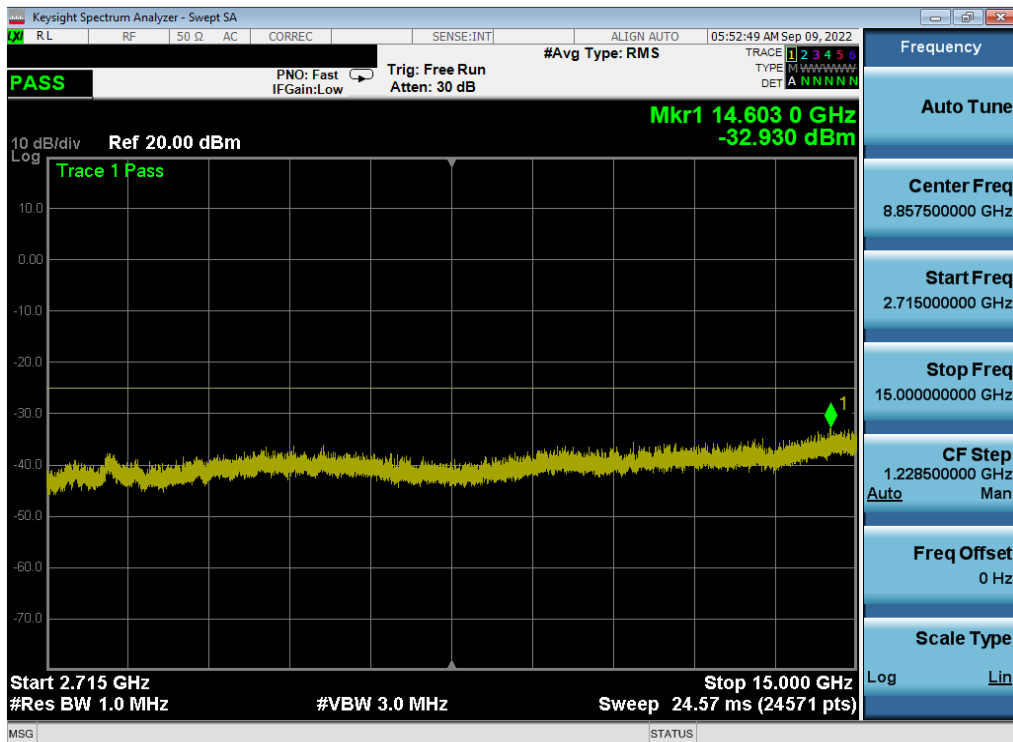


Plot 7-190. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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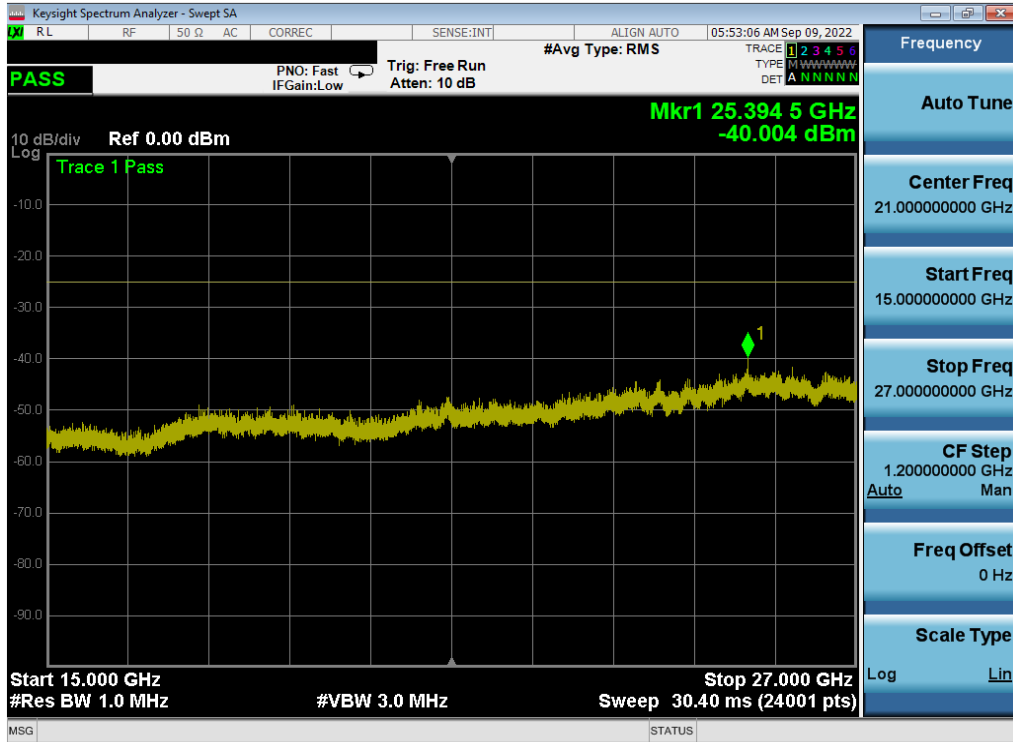


Plot 7-191. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)



Plot 7-192. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

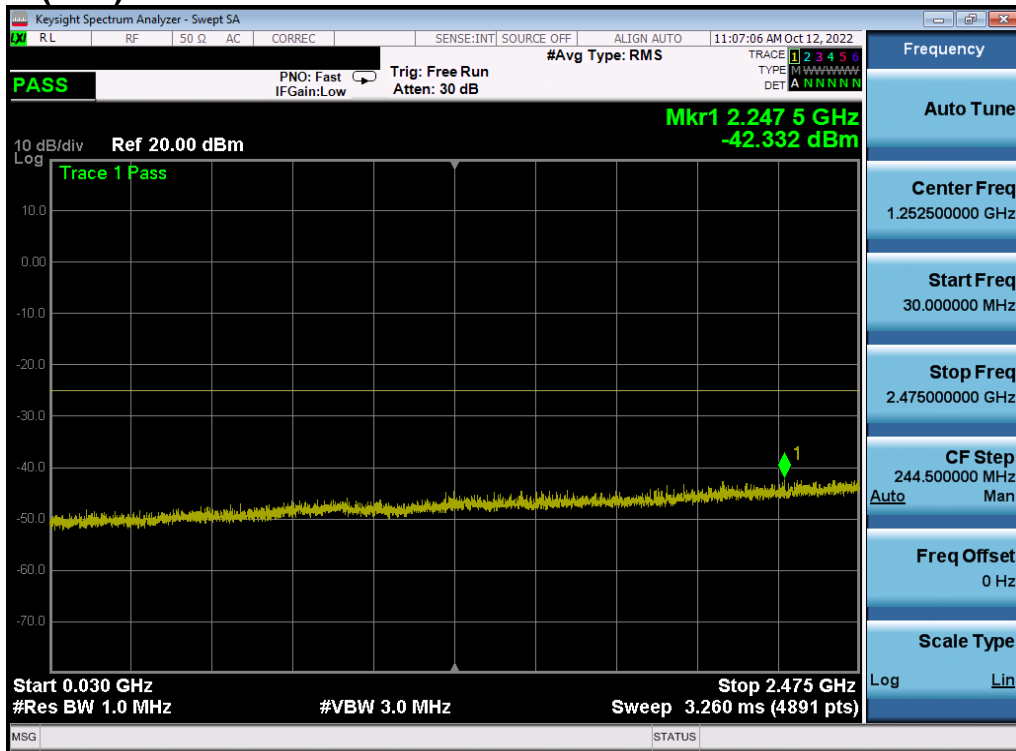
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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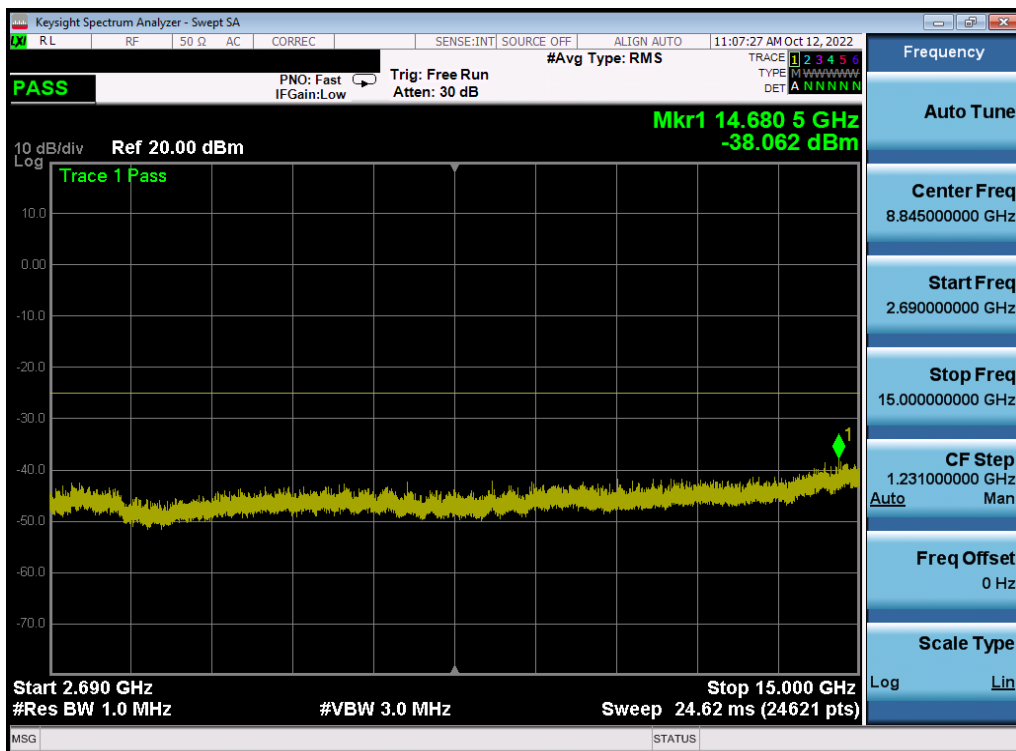
Plot 7-193. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

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LTE Band 41(PC2) – Ant B

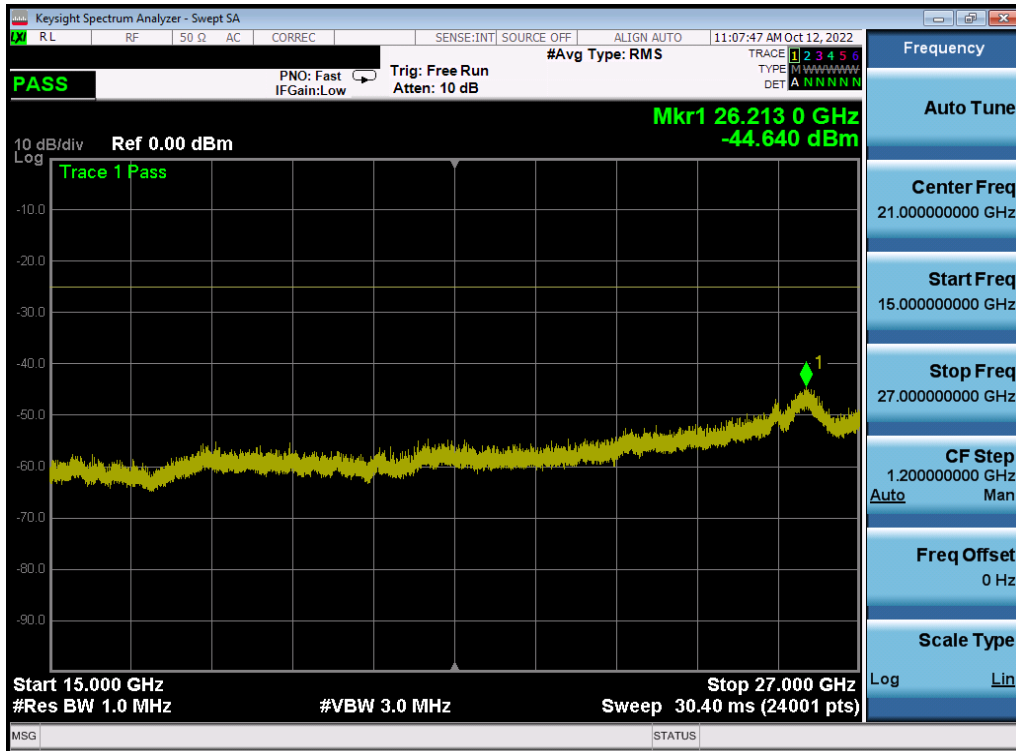


Plot 7-194. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

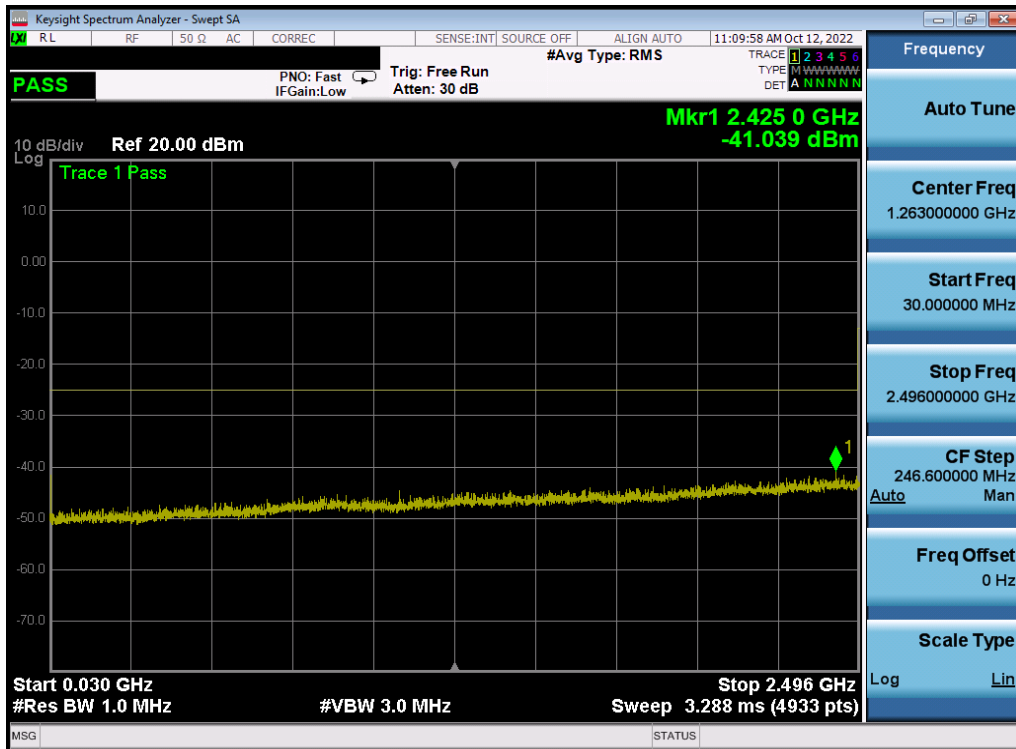


Plot 7-195. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

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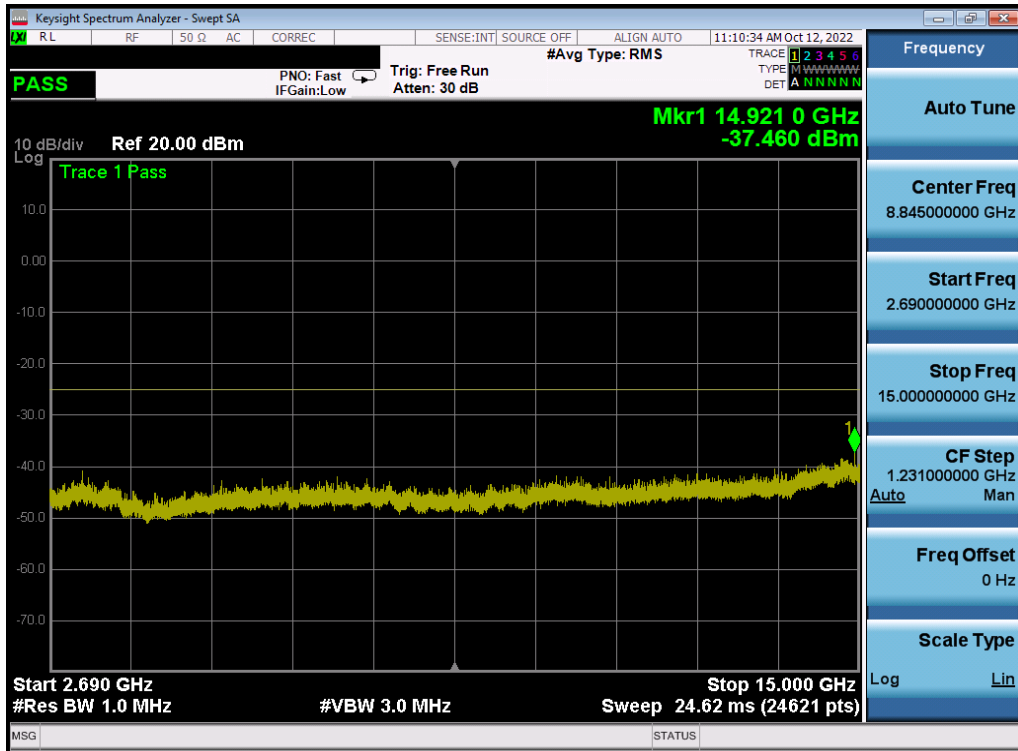


Plot 7-196. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

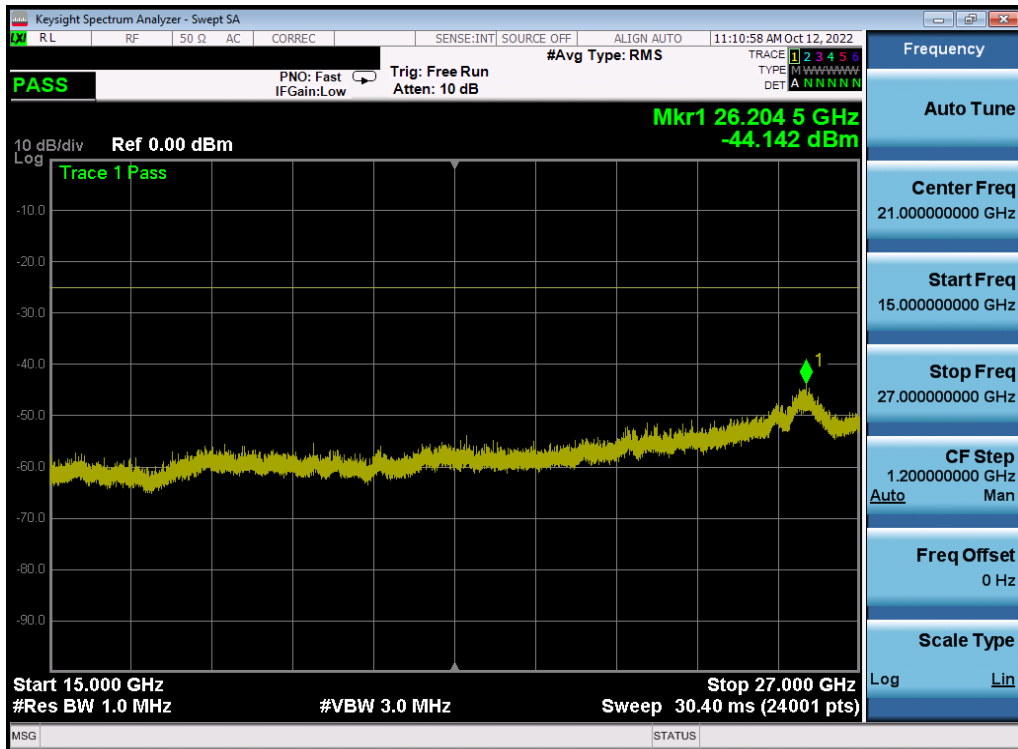


Plot 7-197. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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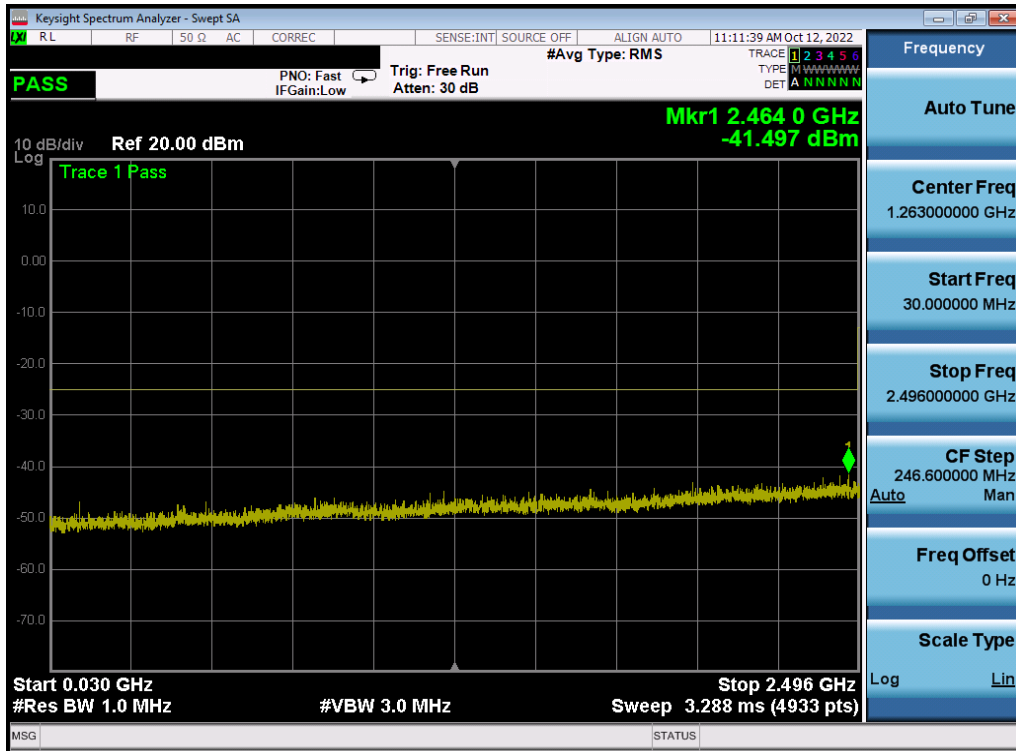


Plot 7-198. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

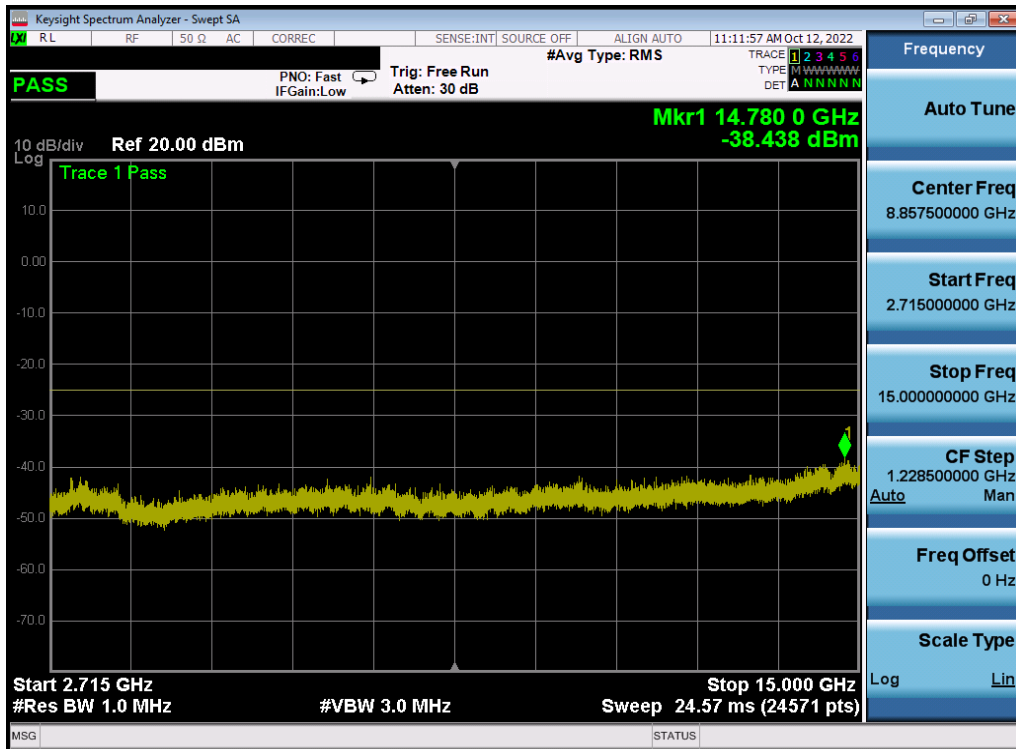


Plot 7-199. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

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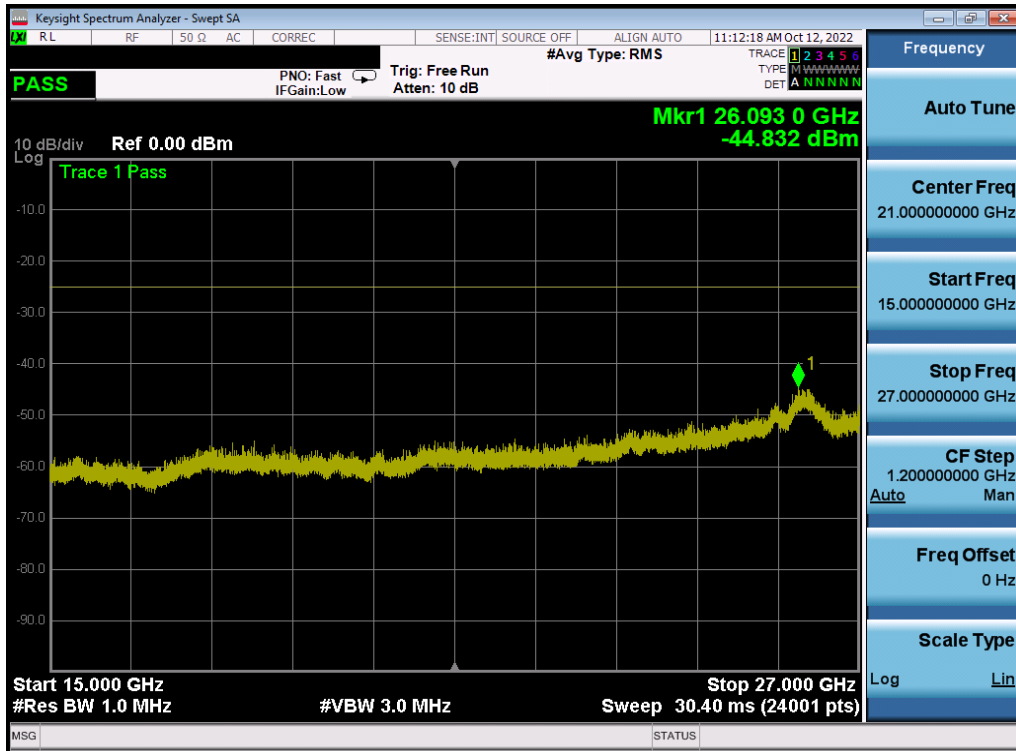


Plot 7-200. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-201. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

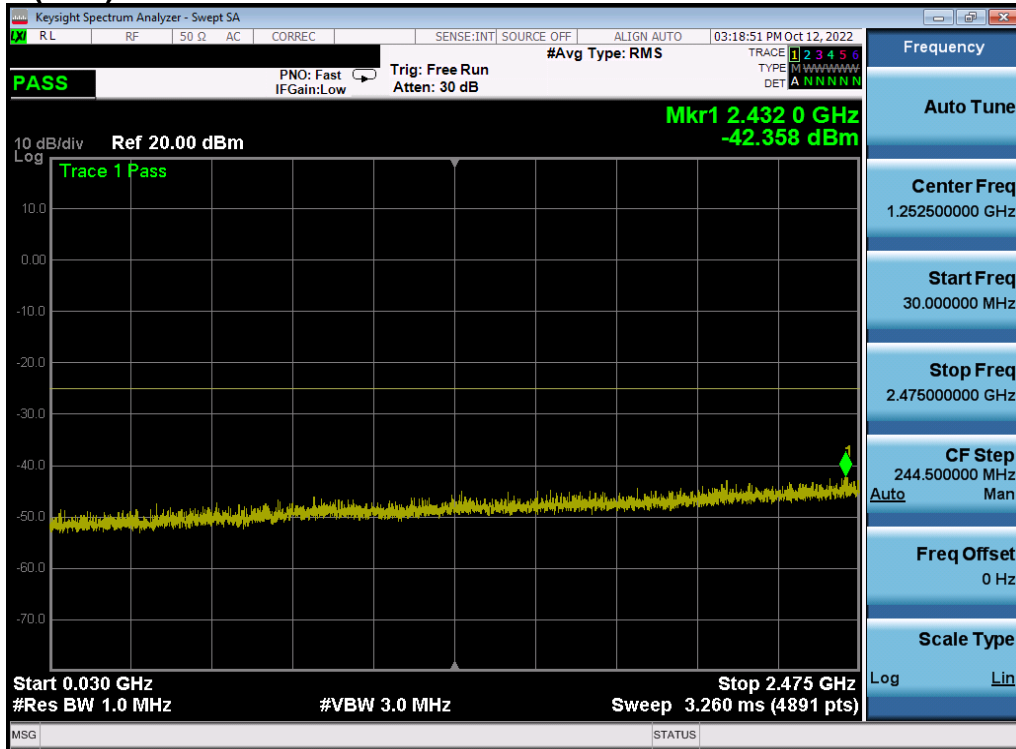
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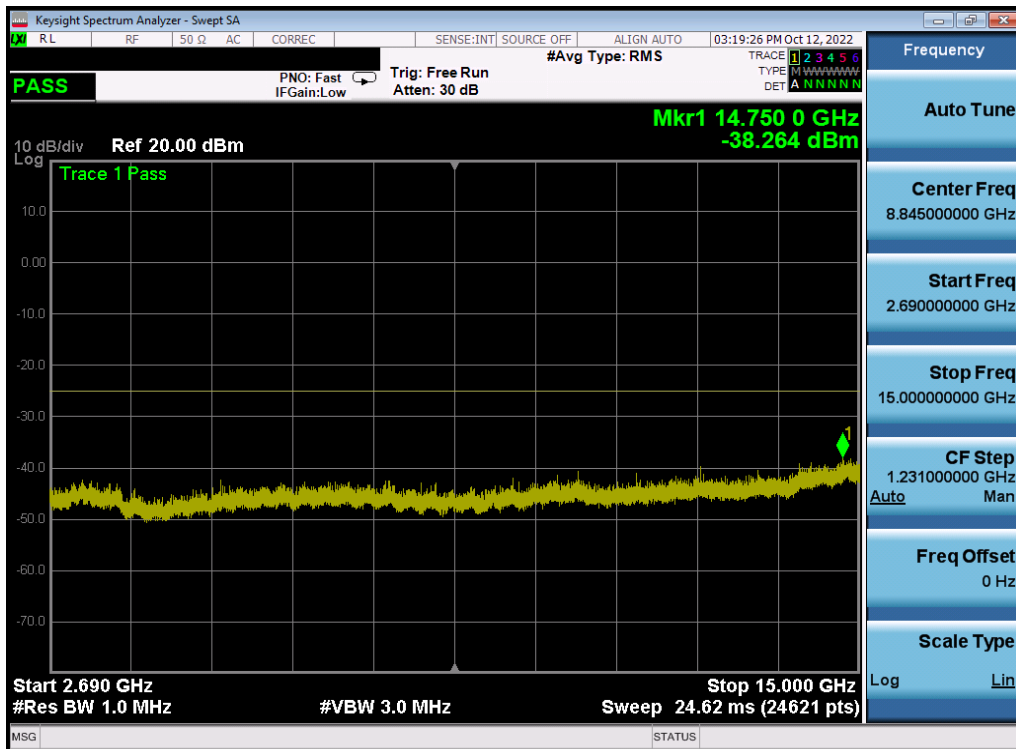
Plot 7-202. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

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LTE Band 41(PC3)/38 – Ant B

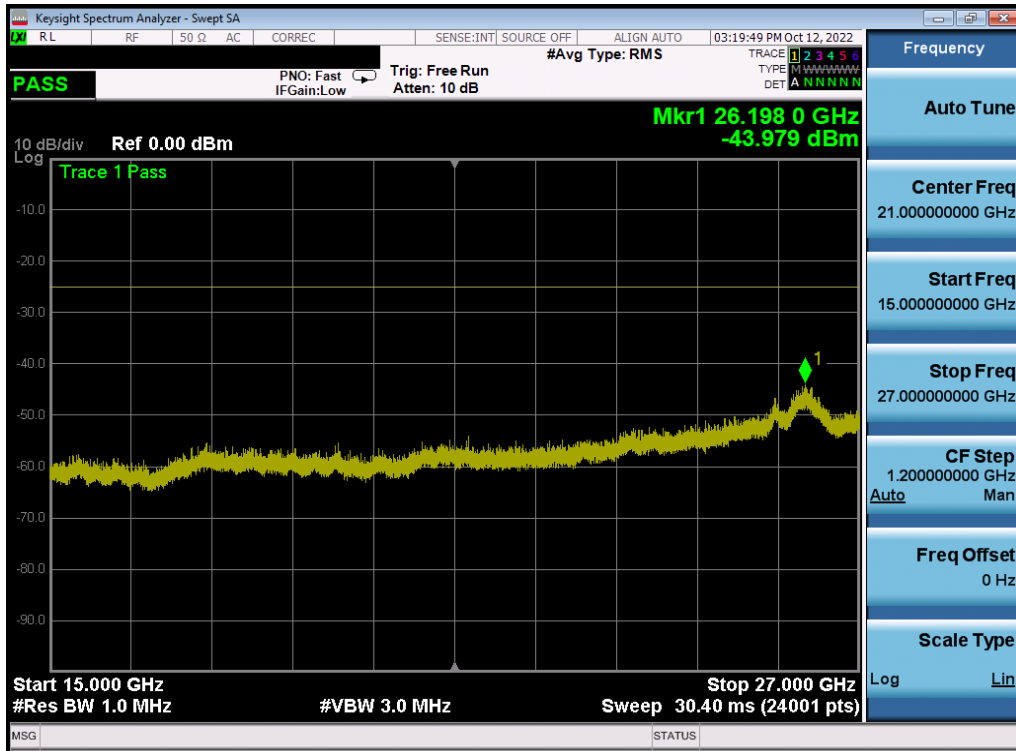


Plot 7-203. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

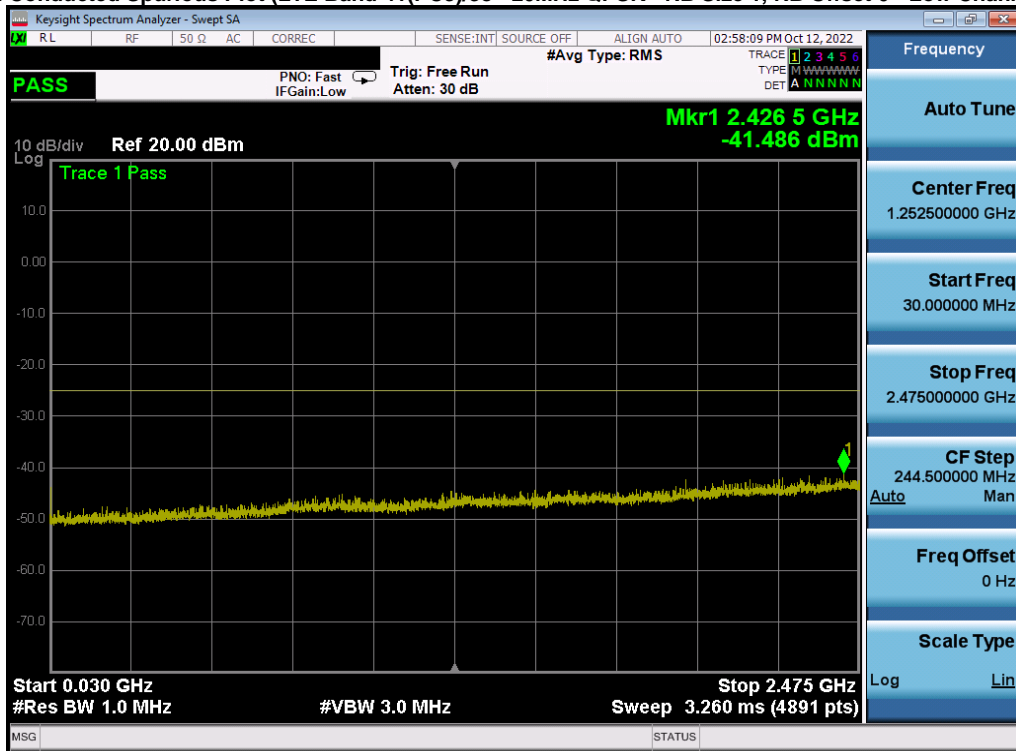


Plot 7-204. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

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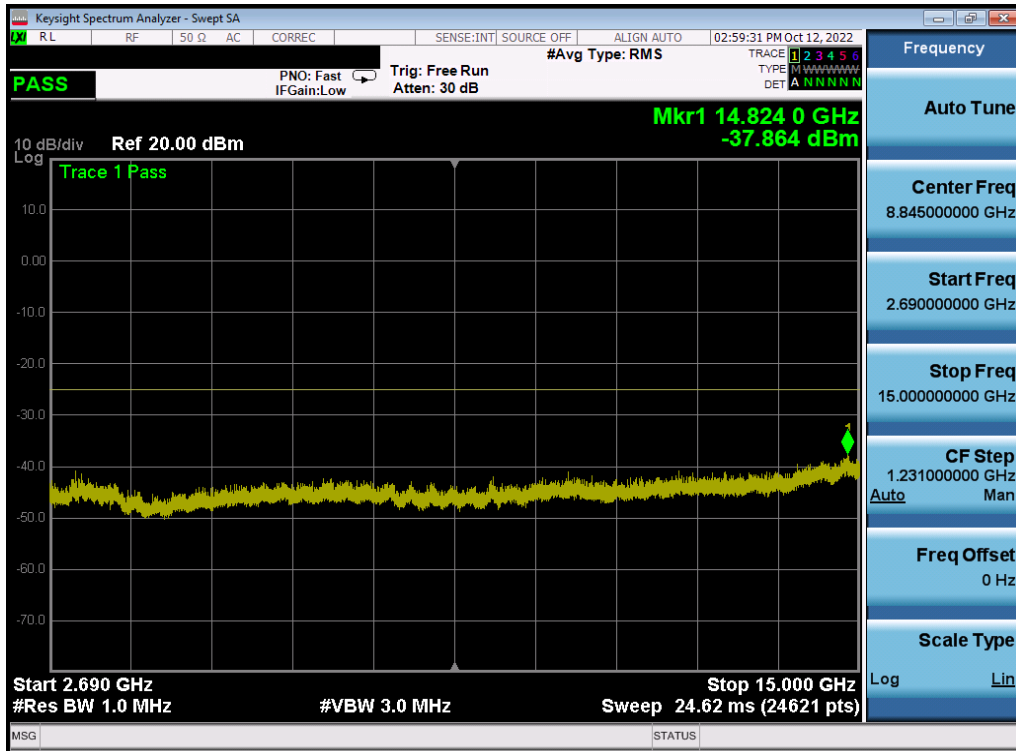


Plot 7-205. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

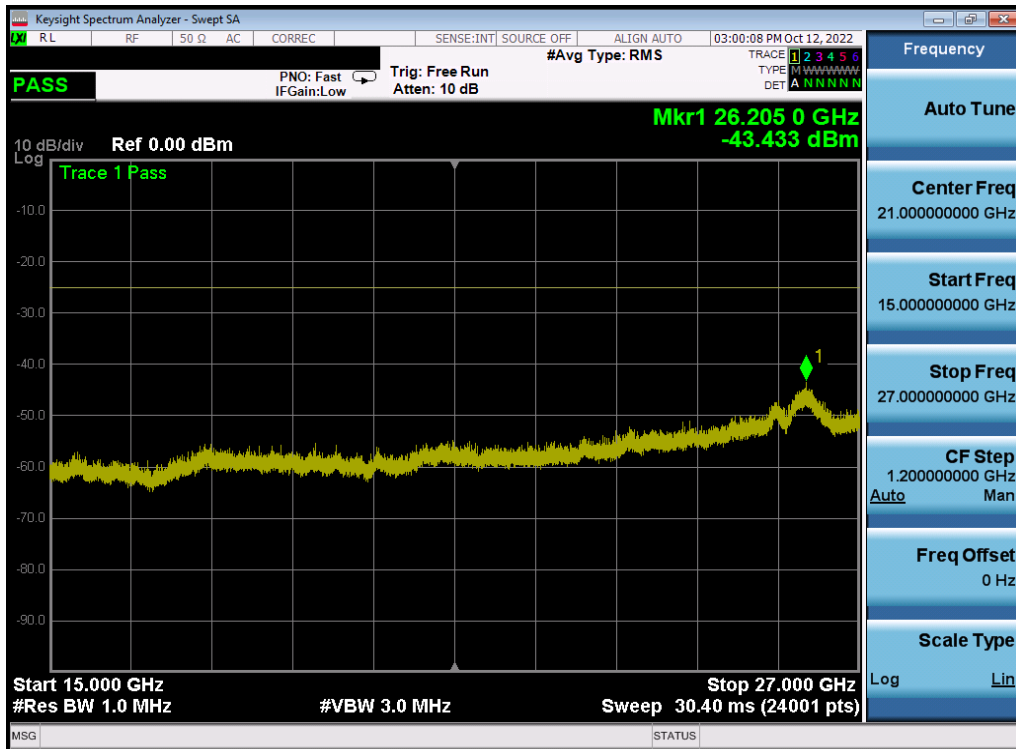


Plot 7-206. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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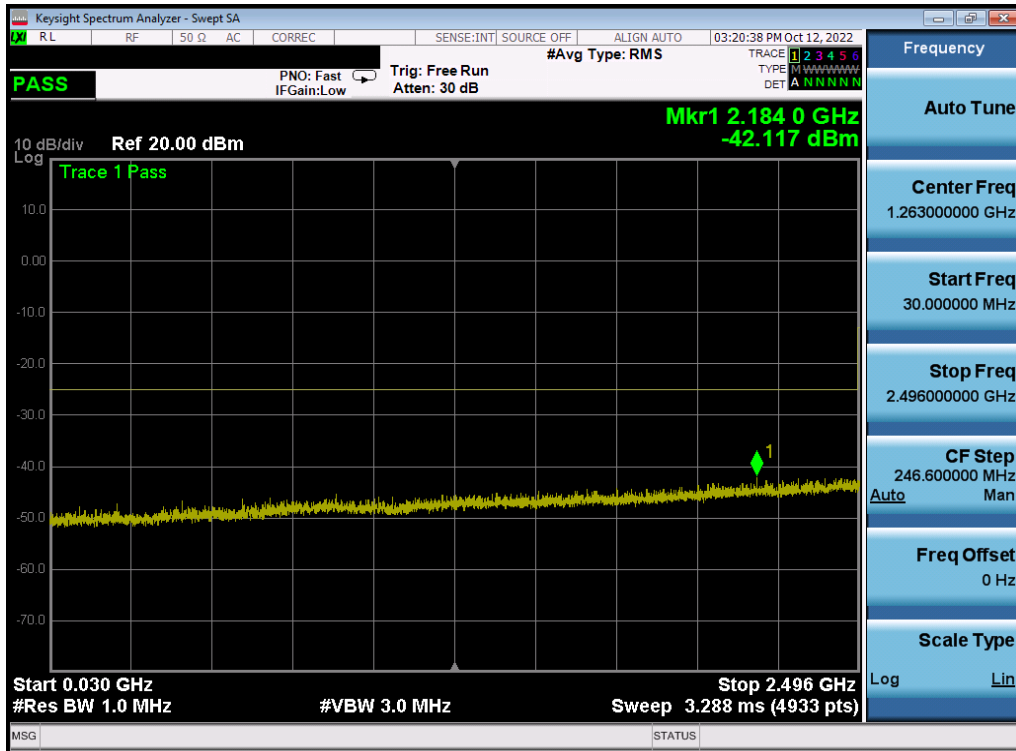


Plot 7-207. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

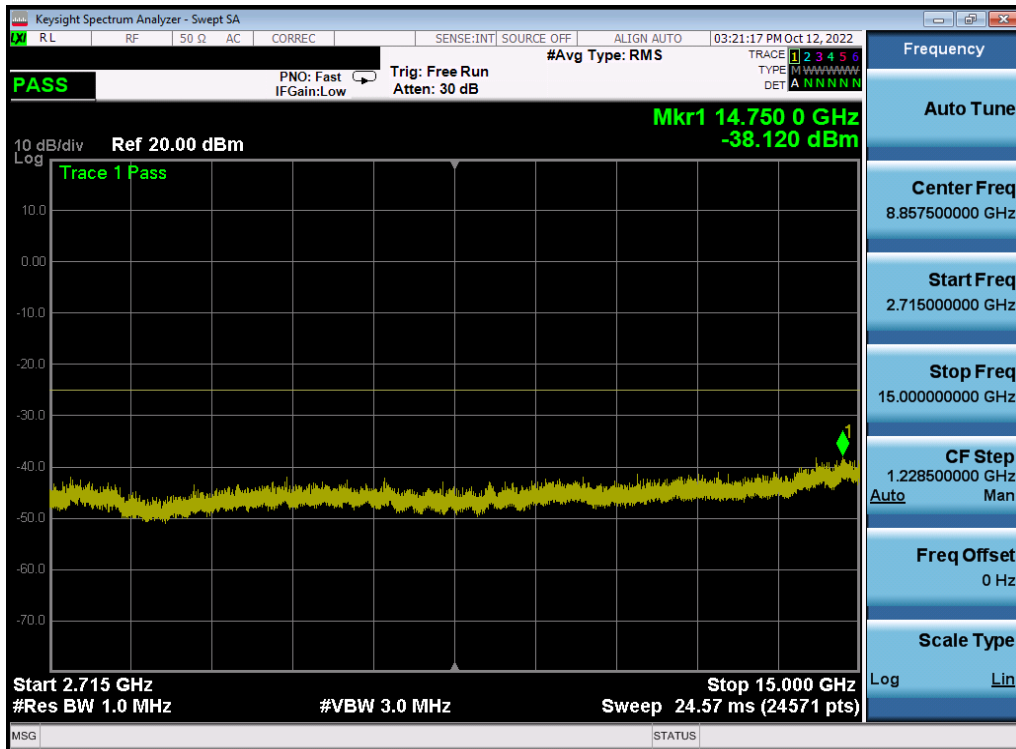


Plot 7-208. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 130 of 344

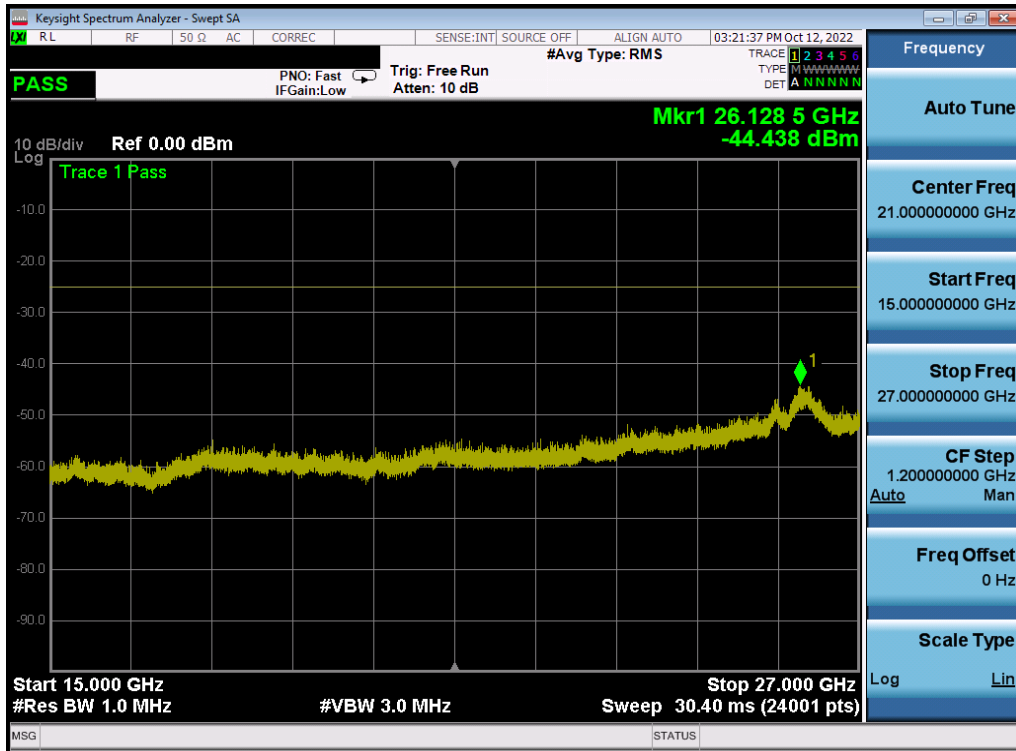


Plot 7-209. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)



Plot 7-210. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 131 of 344



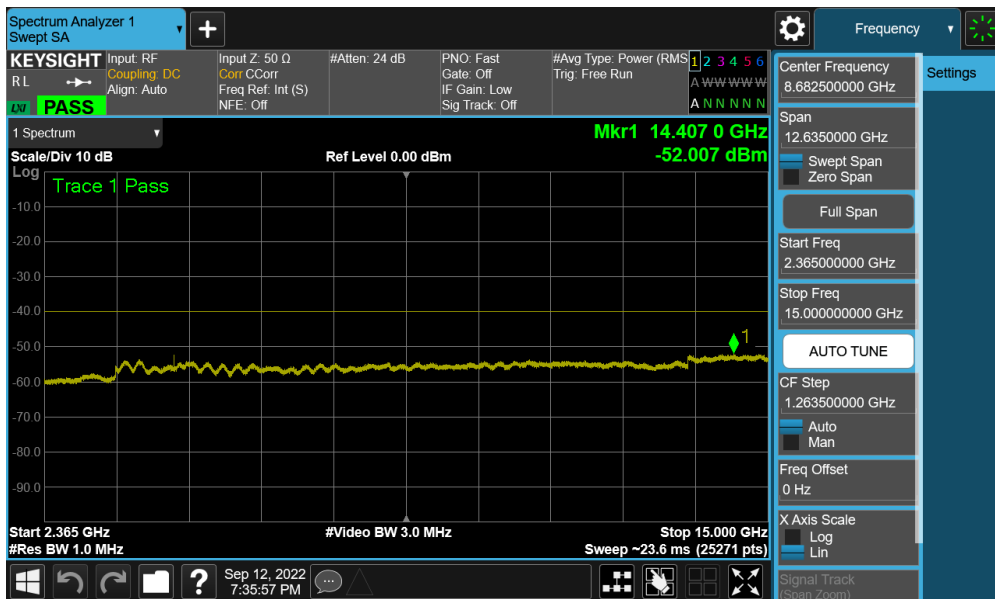
Plot 7-211. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30 – Ant A

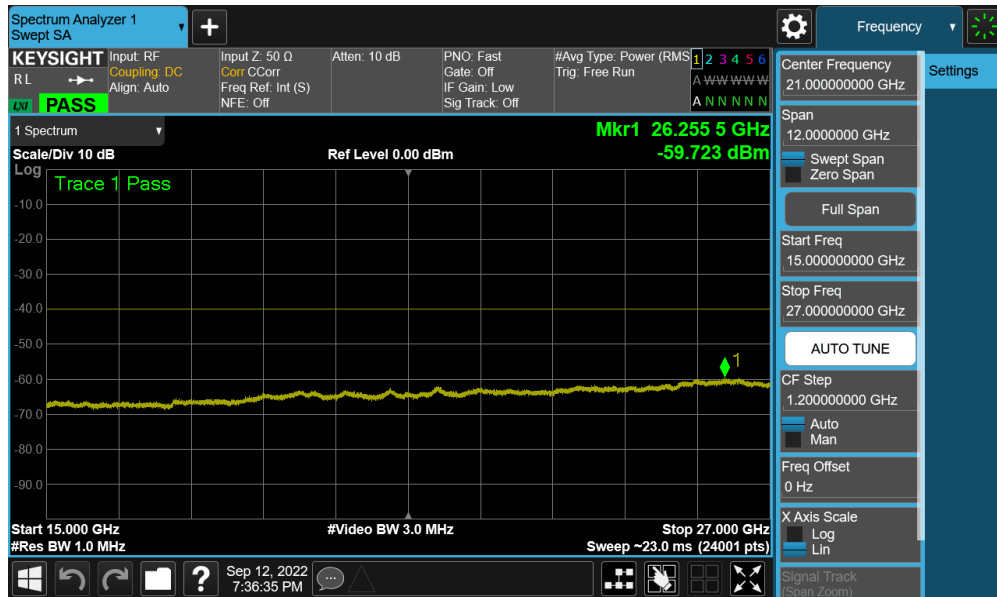


Plot 7-212. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant A)



Plot 7-213. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant A)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 133 of 344



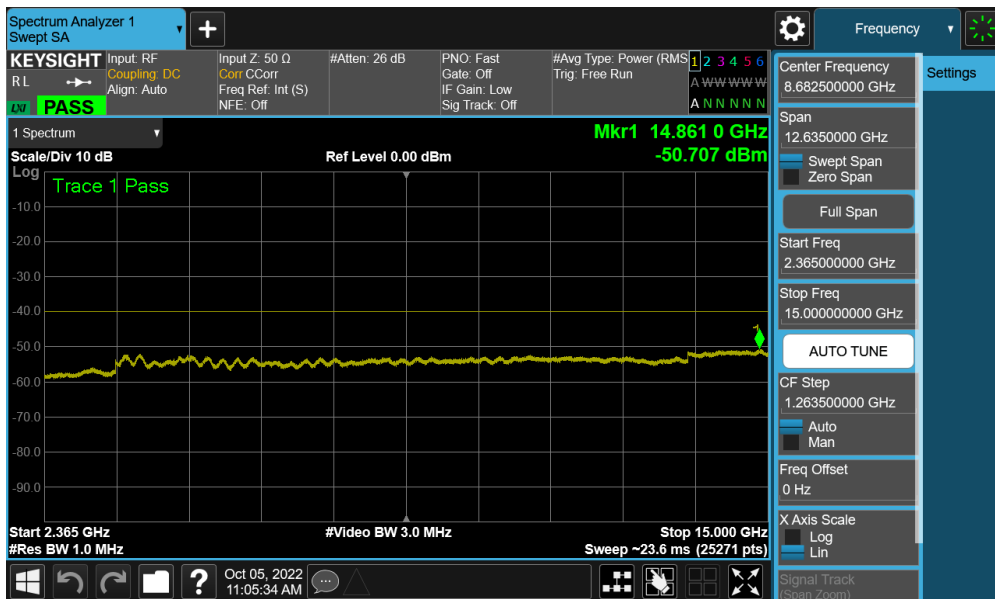
Plot 7-214. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant A)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30 – Ant F

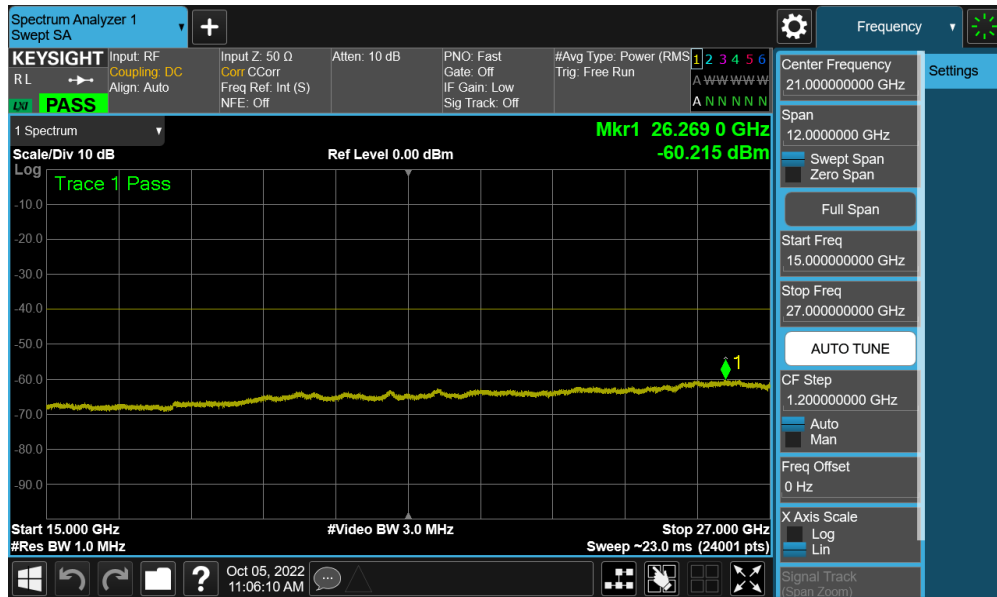


Plot 7-215. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant F)



Plot 7-216. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant F)

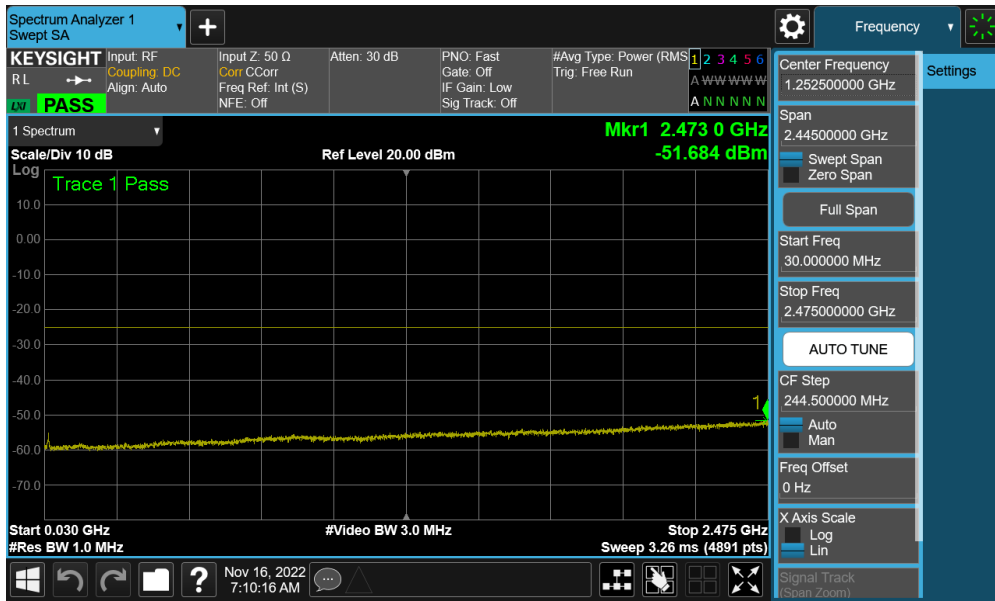
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 135 of 344



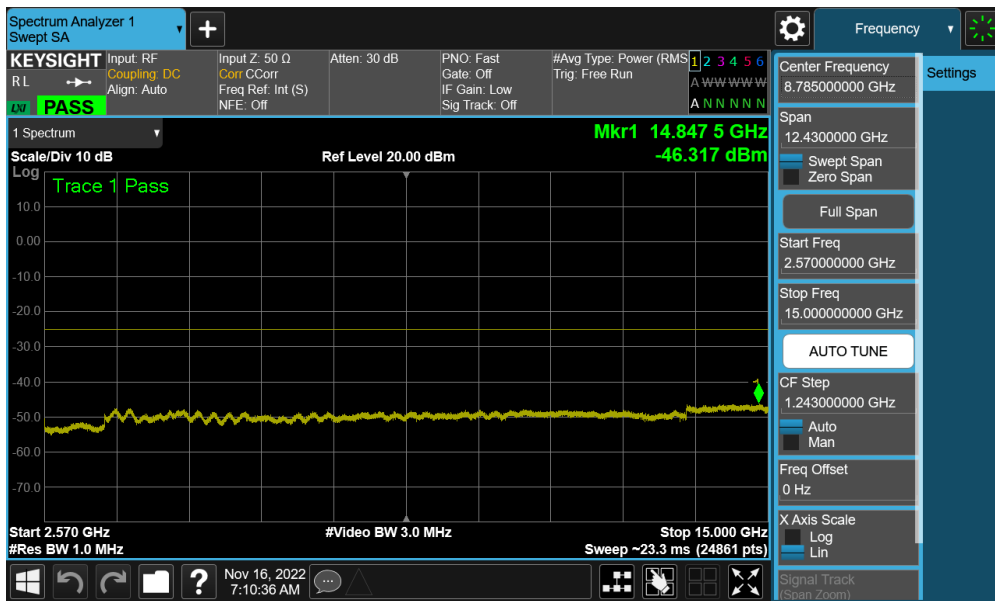
Plot 7-217. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant B

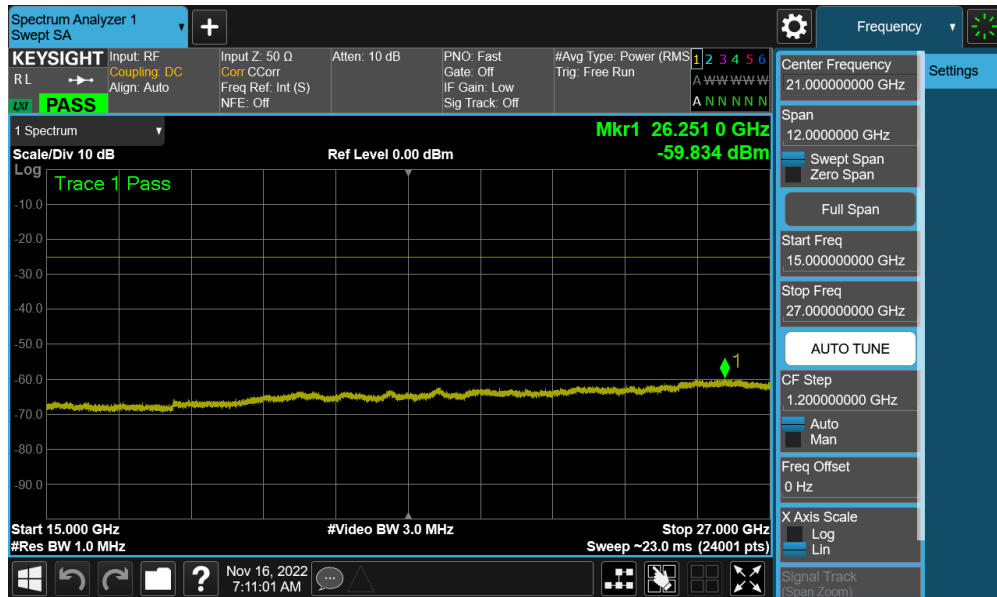


Plot 7-218. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)

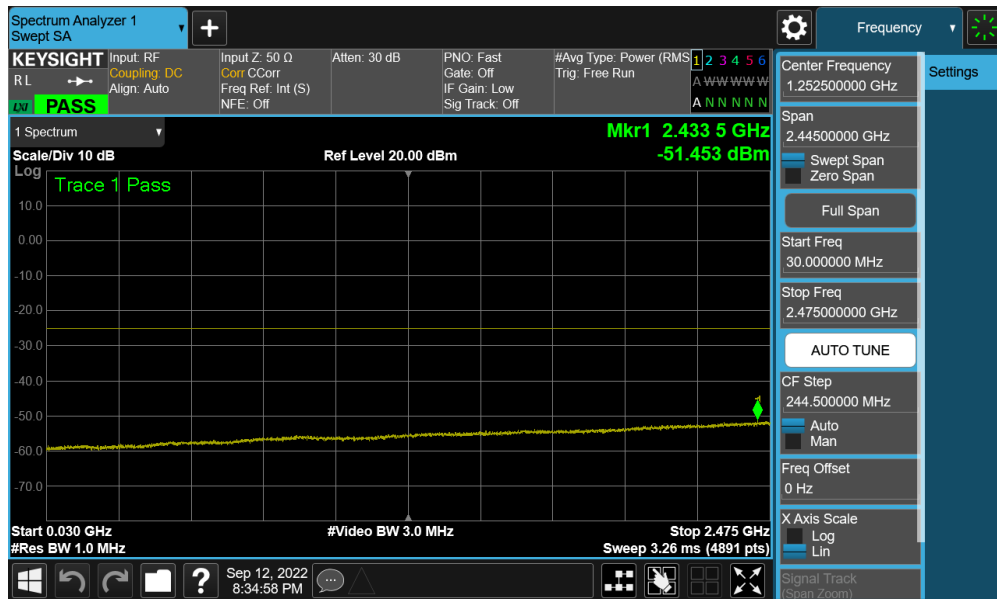


Plot 7-219. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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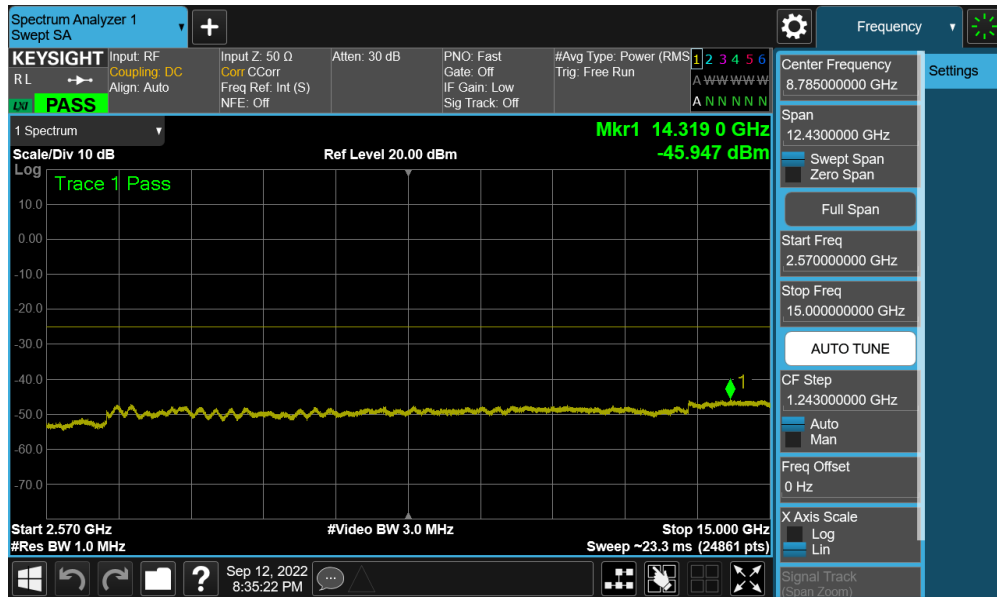


Plot 7-220. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)

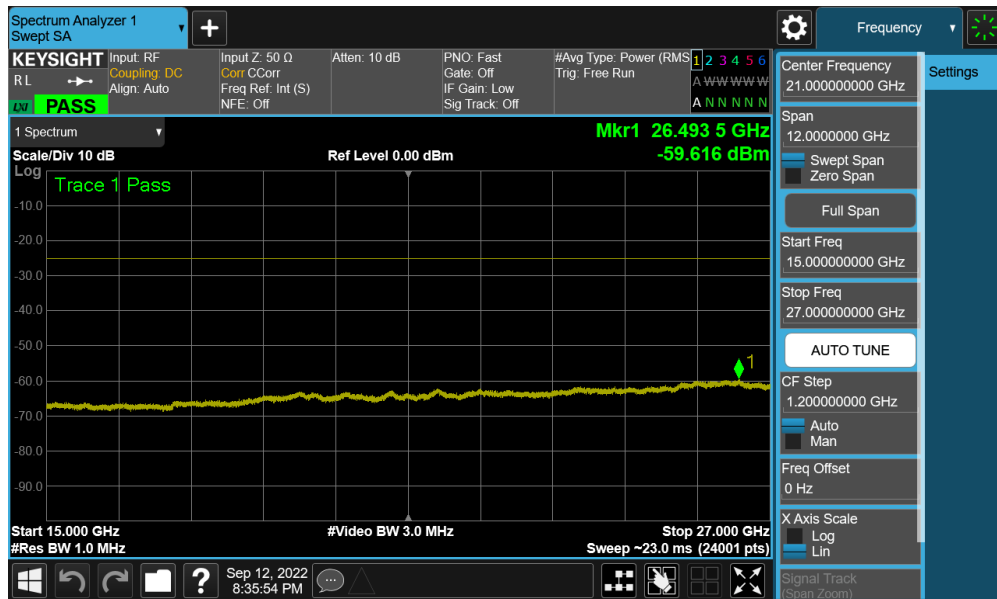


Plot 7-221. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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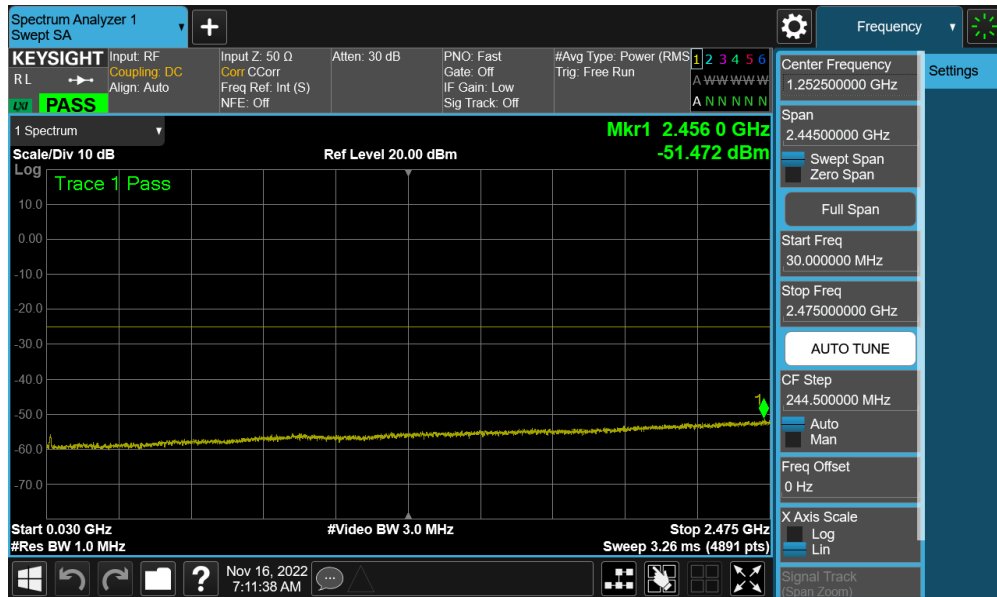


Plot 7-222. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant B)

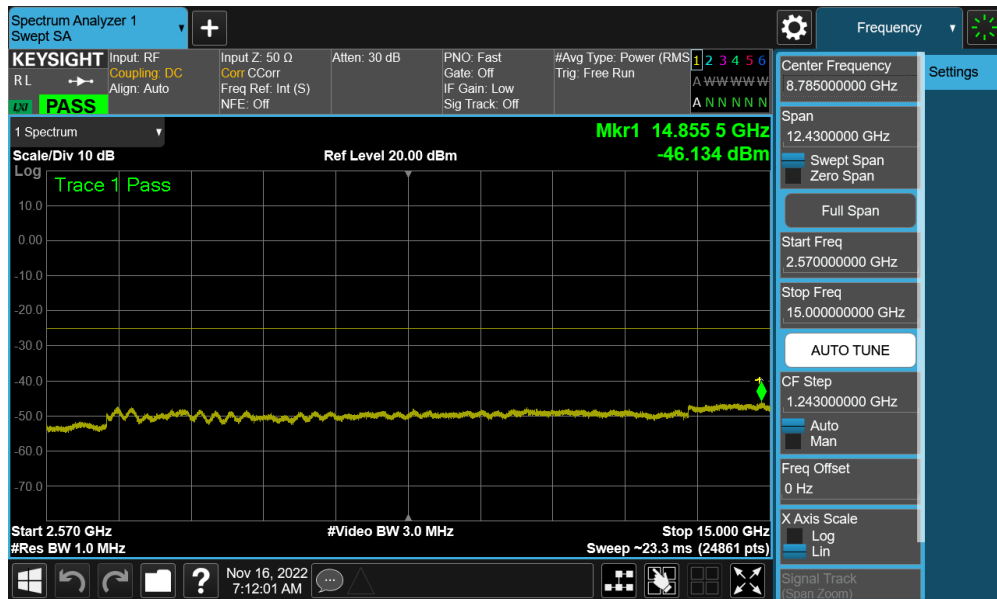


Plot 7-223. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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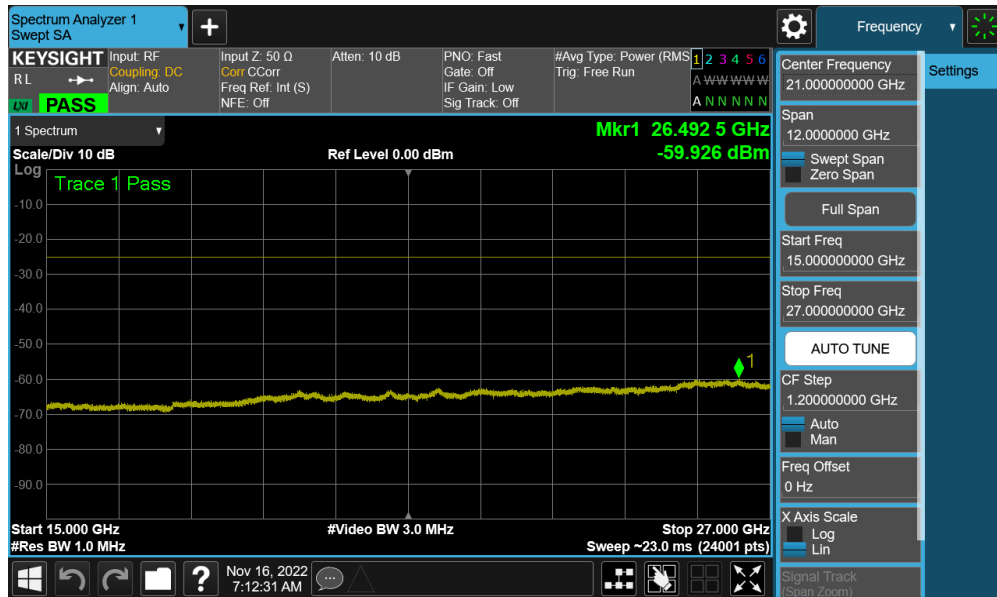


Plot 7-224. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)



Plot 7-225. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 140 of 344



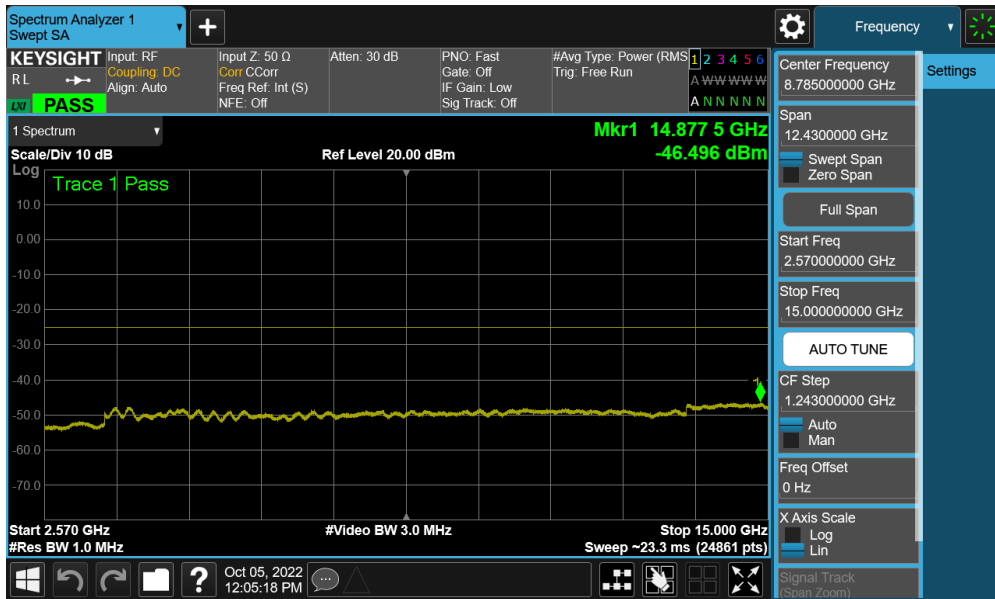
Plot 7-226. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 141 of 344

NR Band n7 – Ant F

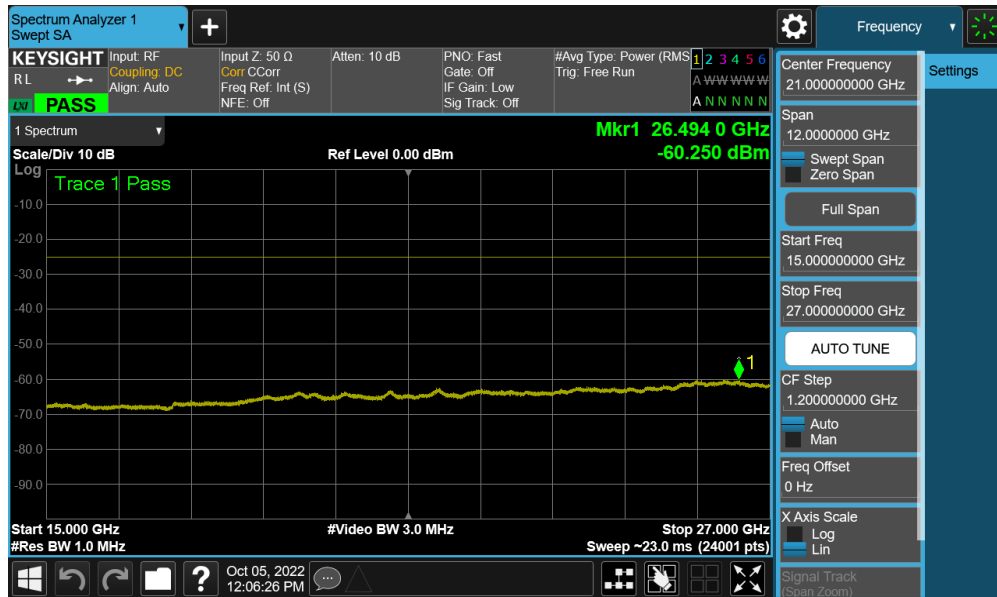


Plot 7-227. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

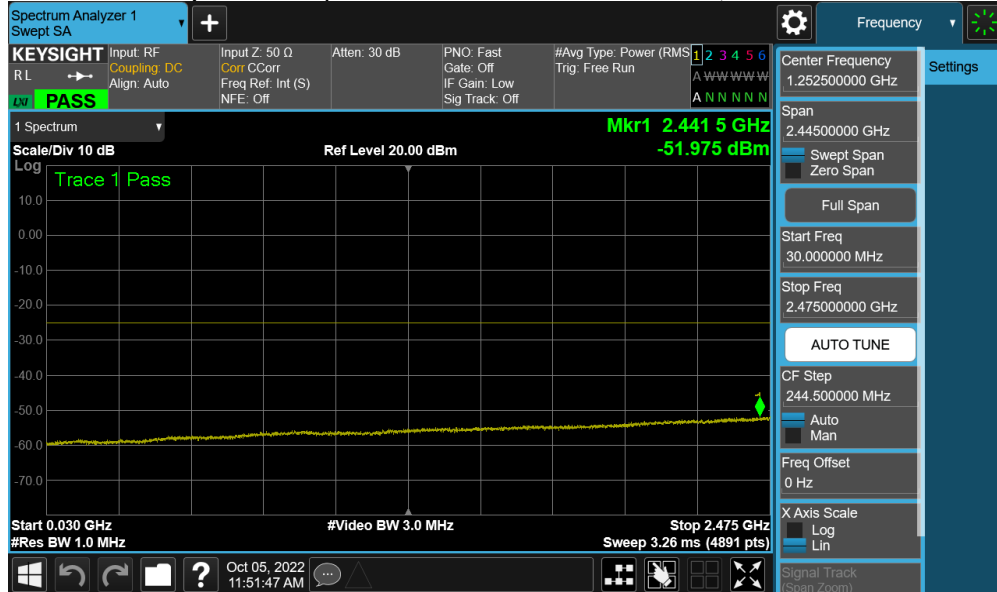


Plot 7-228. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 142 of 344

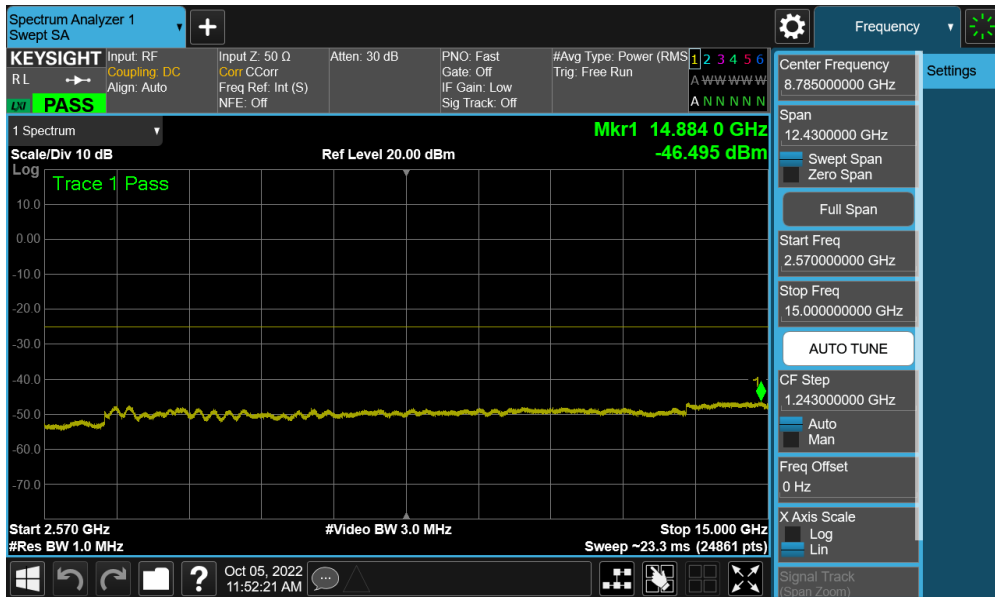


Plot 7-229. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

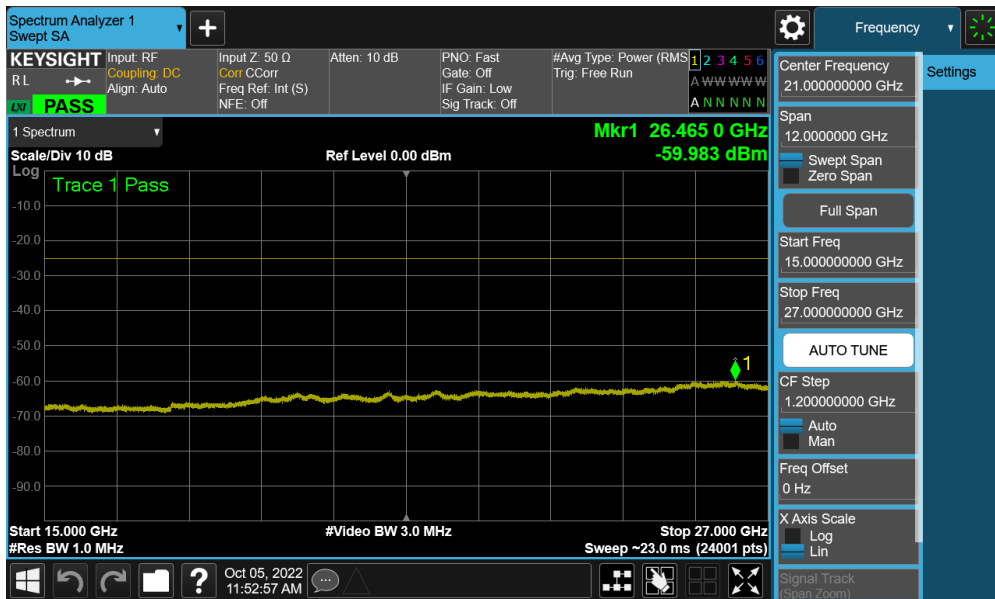


Plot 7-230. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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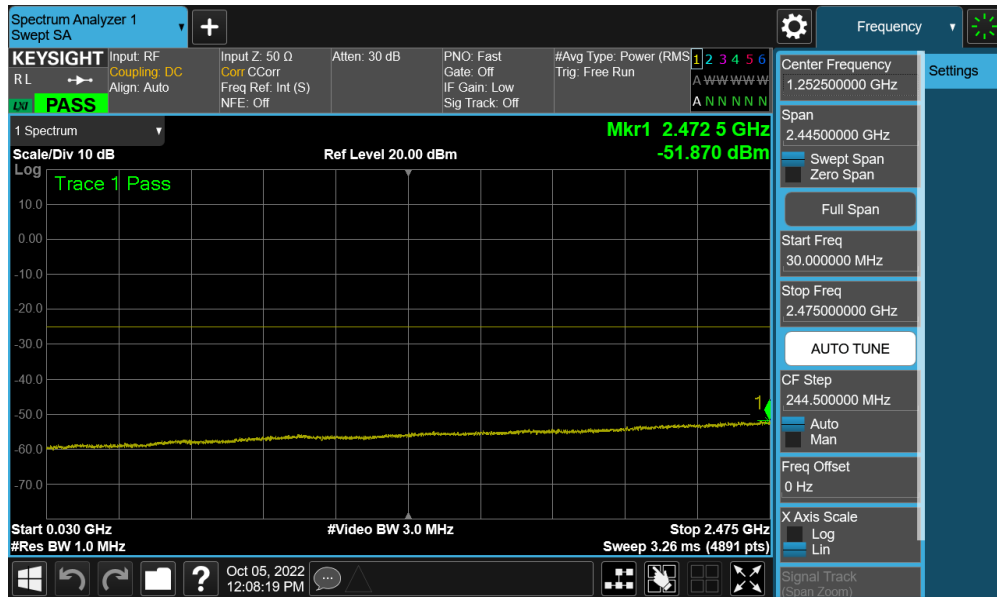


Plot 7-231. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

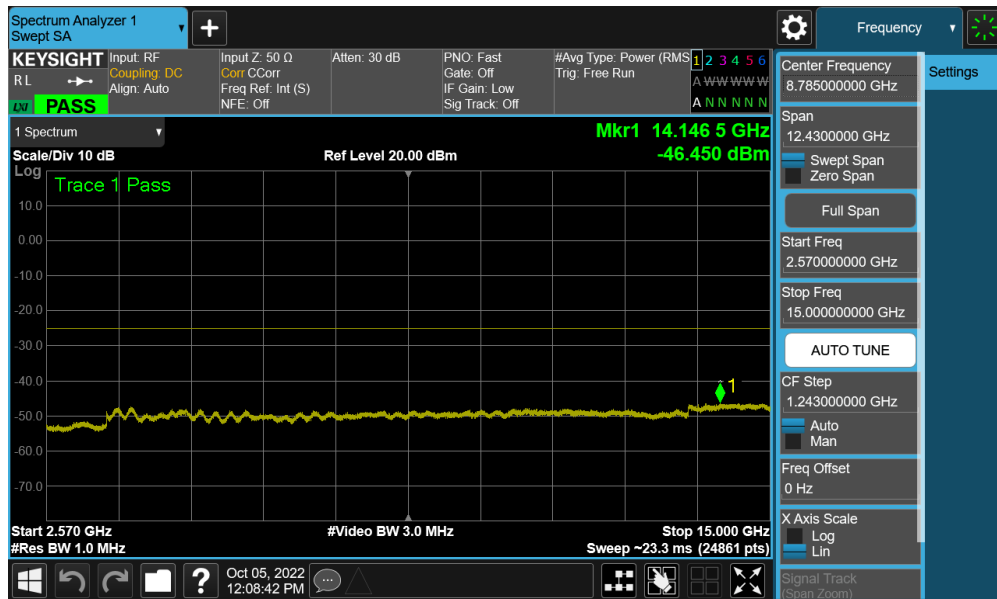


Plot 7-232. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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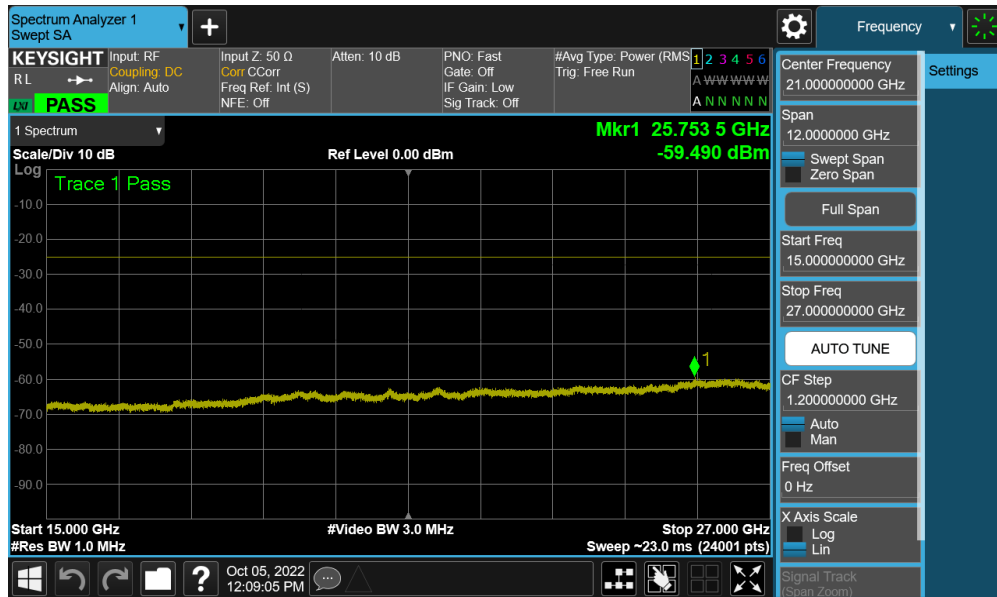


Plot 7-233. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)



Plot 7-234. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

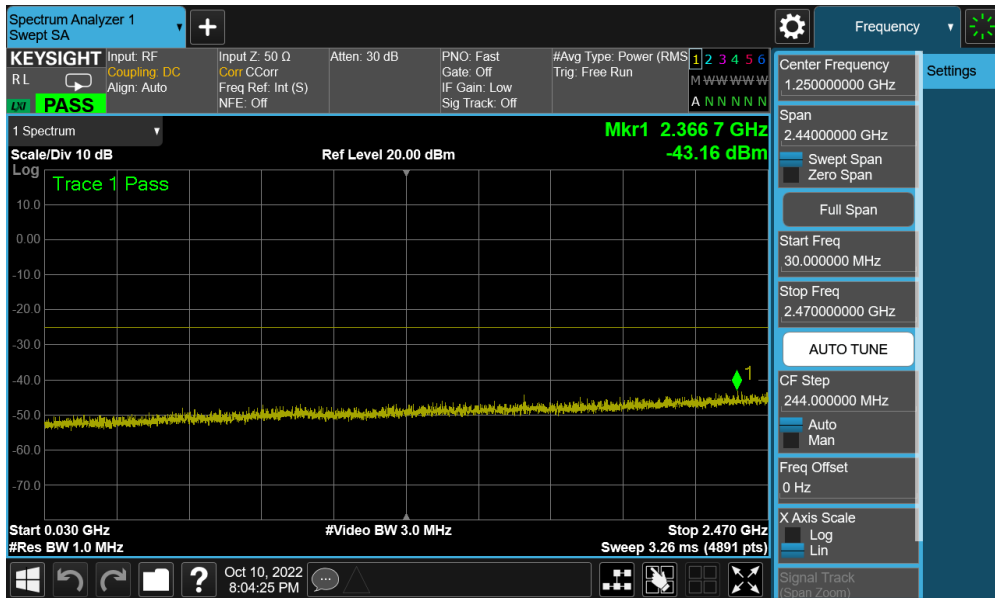
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 145 of 344



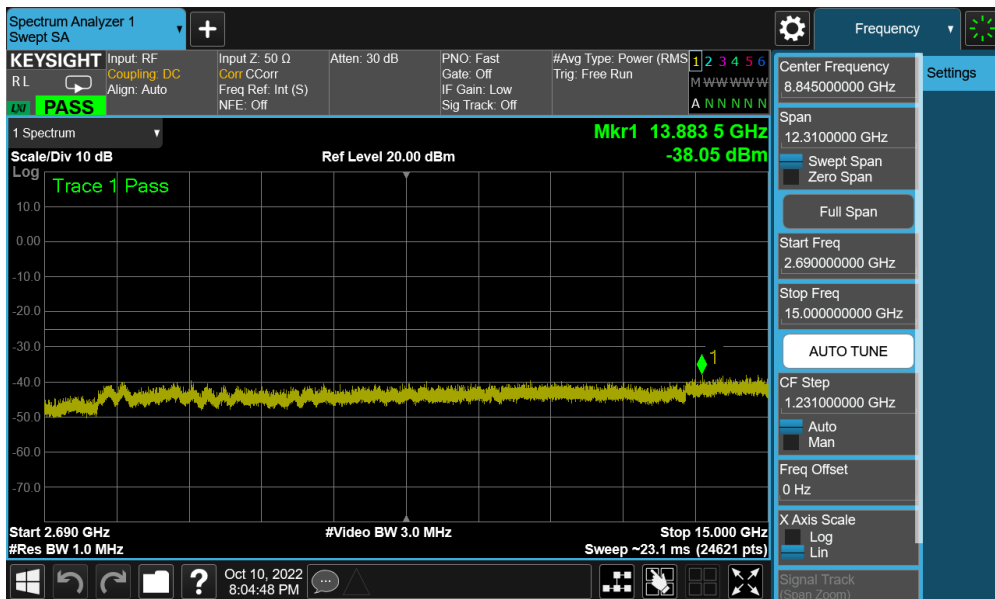
Plot 7-235. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant F

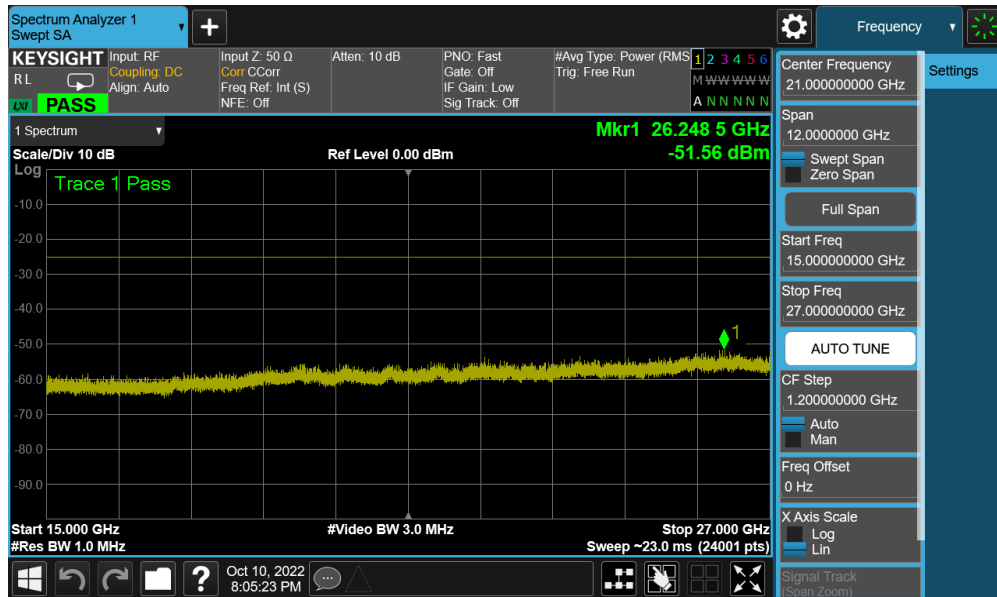


Plot 7-236. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

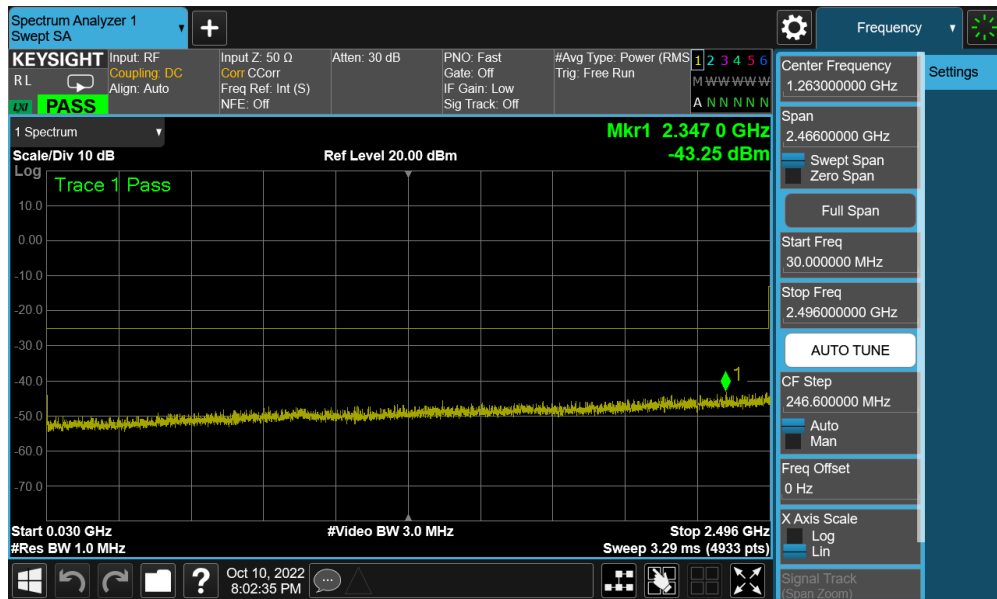


Plot 7-237. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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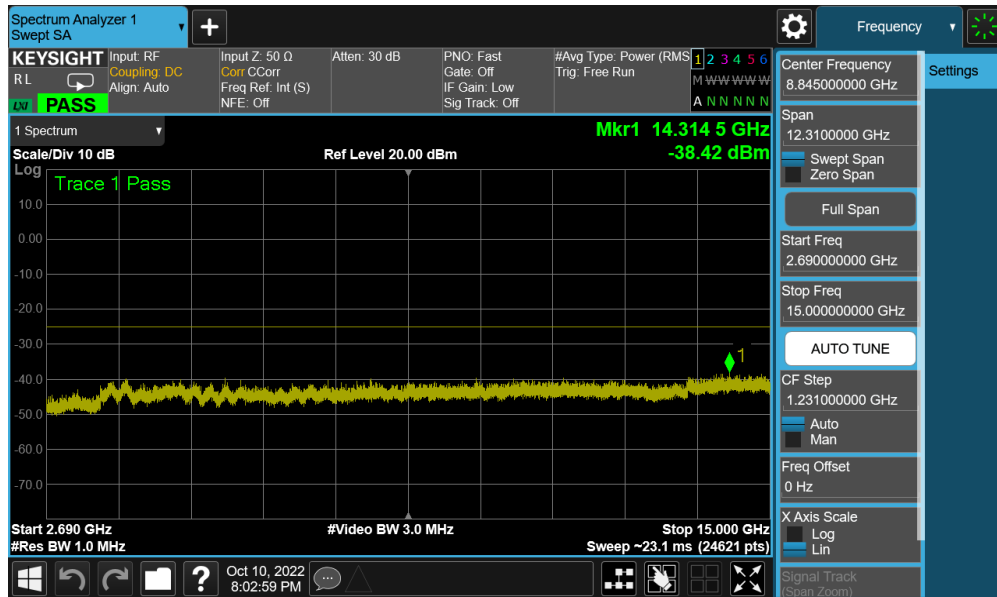


Plot 7-238. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant F)

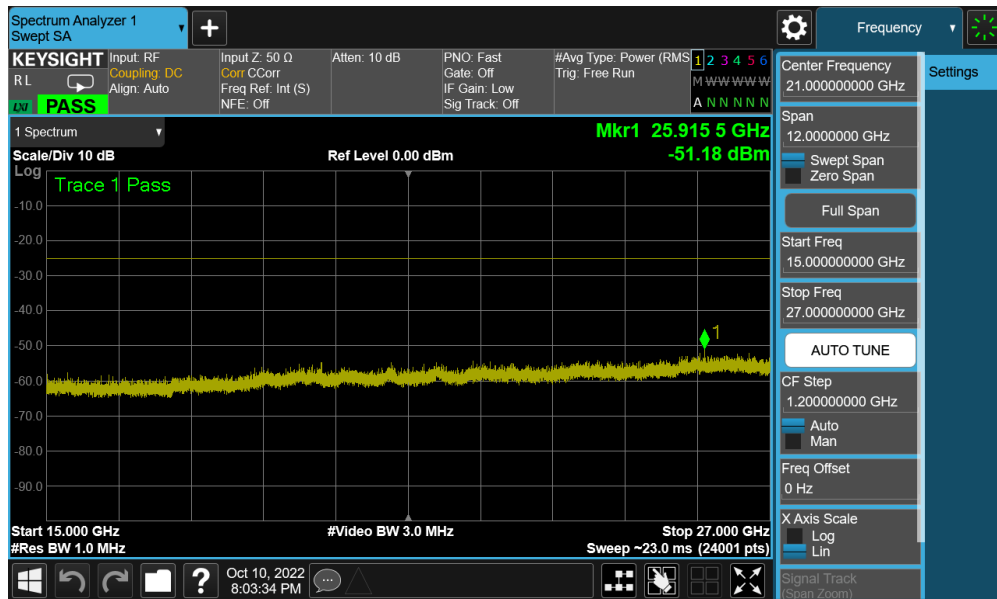


Plot 7-239. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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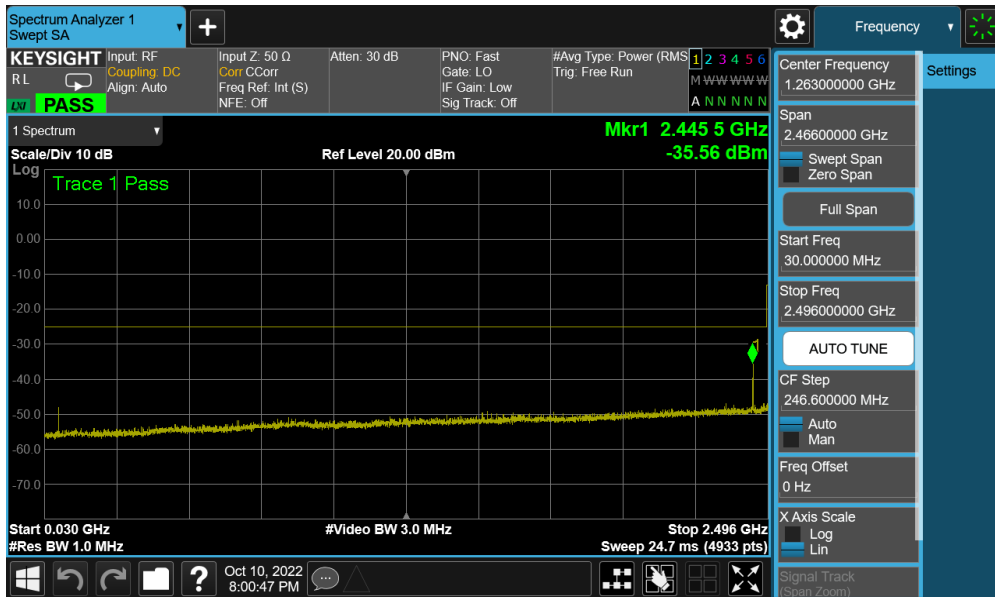


Plot 7-240. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

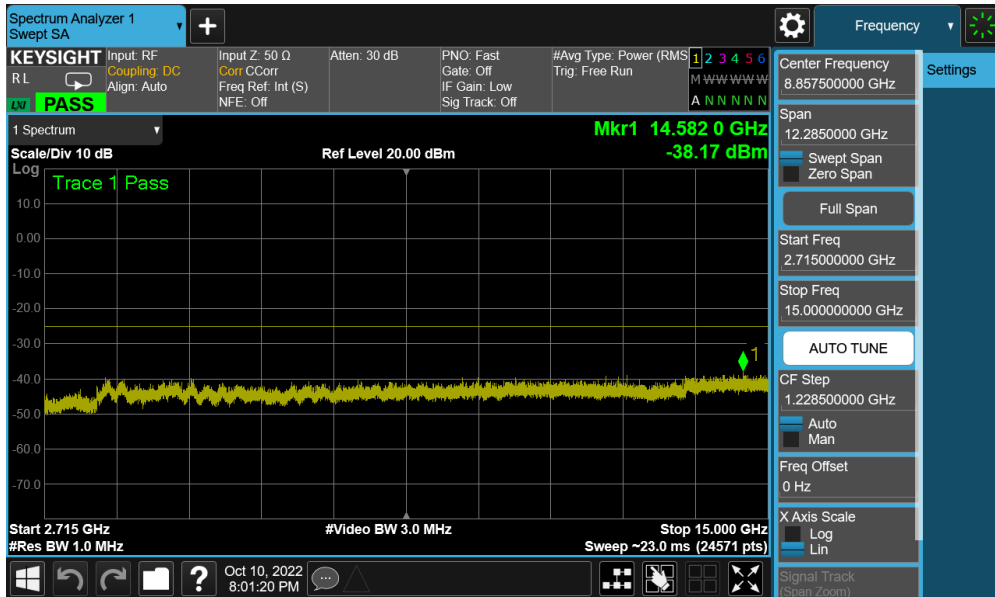


Plot 7-241. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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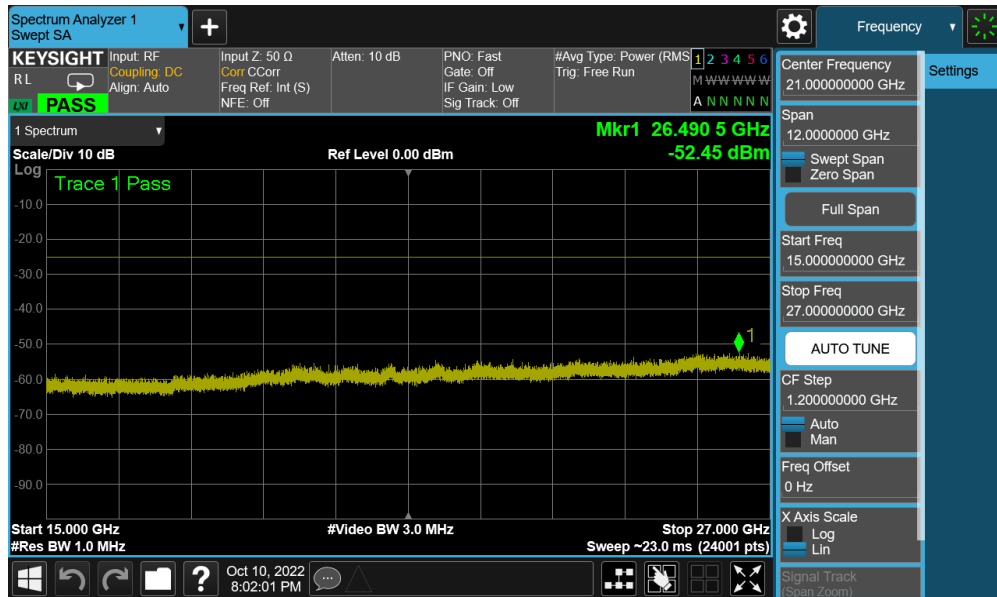


Plot 7-242. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)



Plot 7-243. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

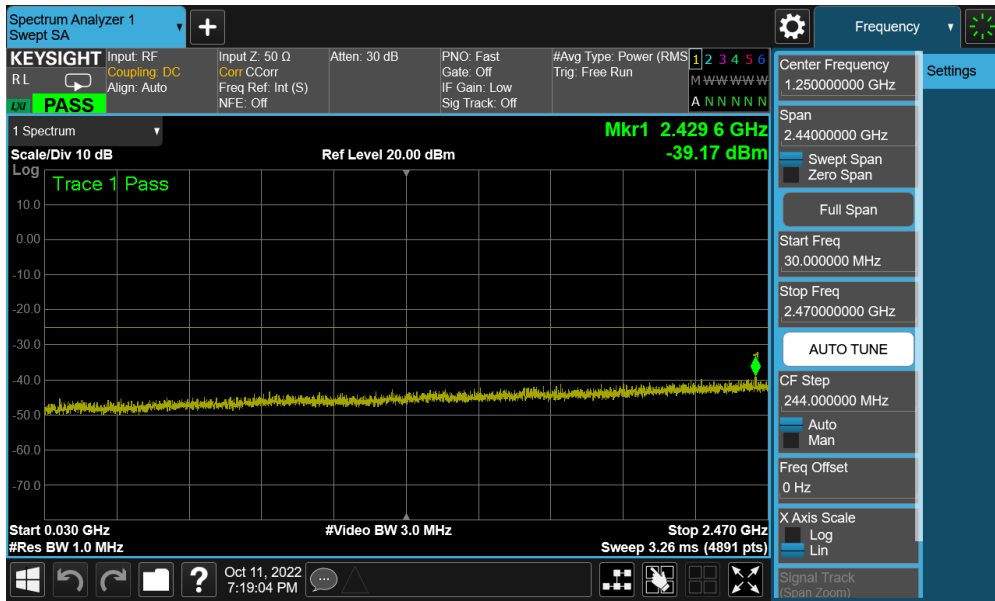
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-09-R2.A3L	Test Dates: 9/12/2022 – 11/16/2022	EUT Type: Portable Handset	Page 150 of 344



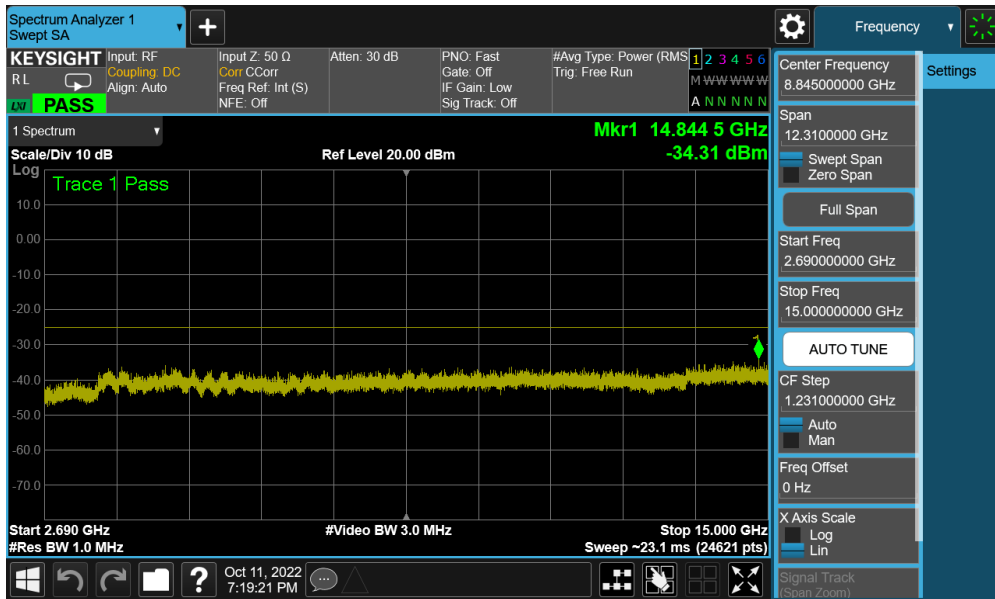
Plot 7-244. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant F)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41 – Ant B

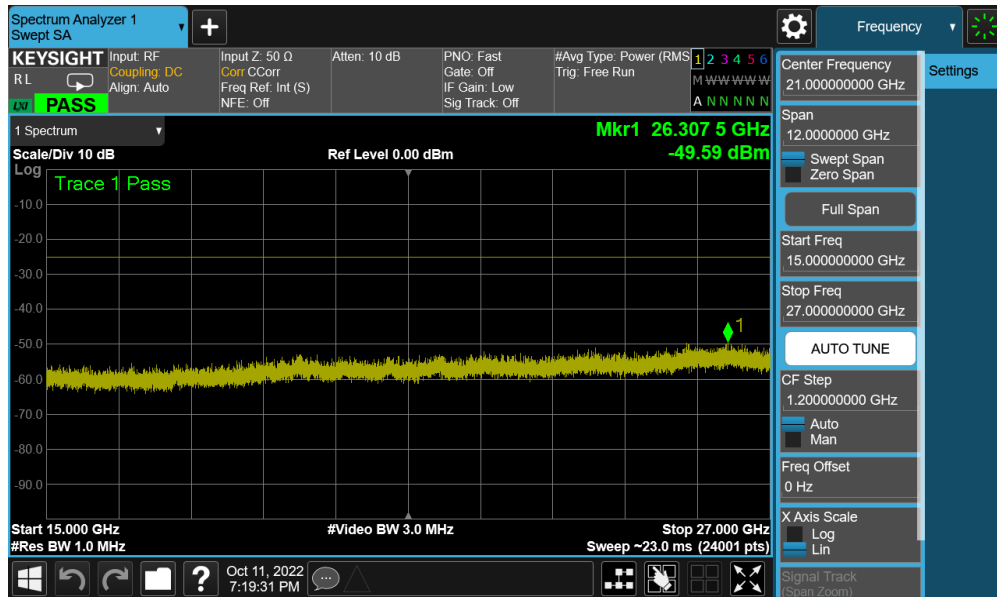


Plot 7-245. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)

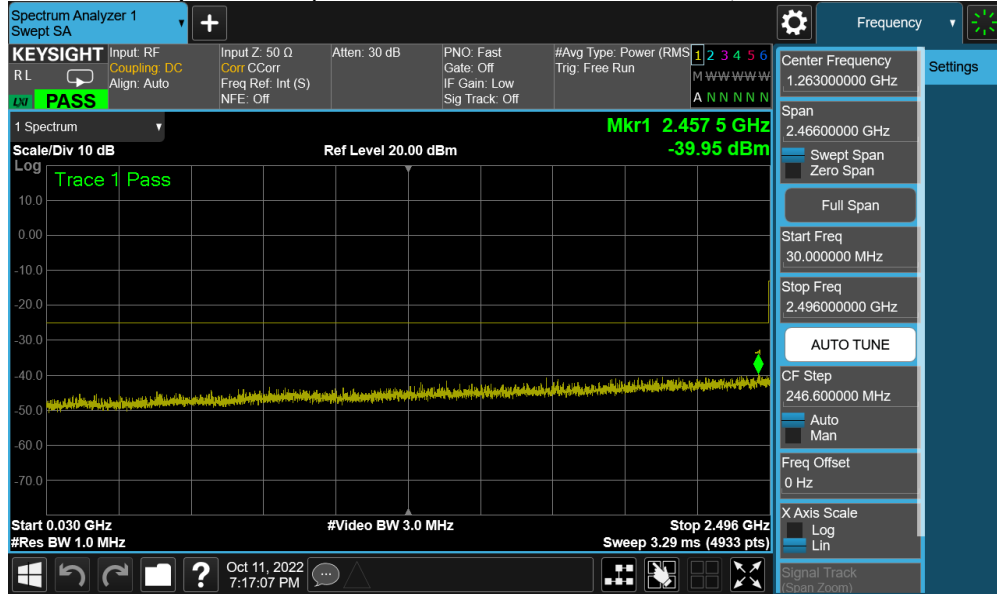


Plot 7-246. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-247. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant B)



Plot 7-248. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant B)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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