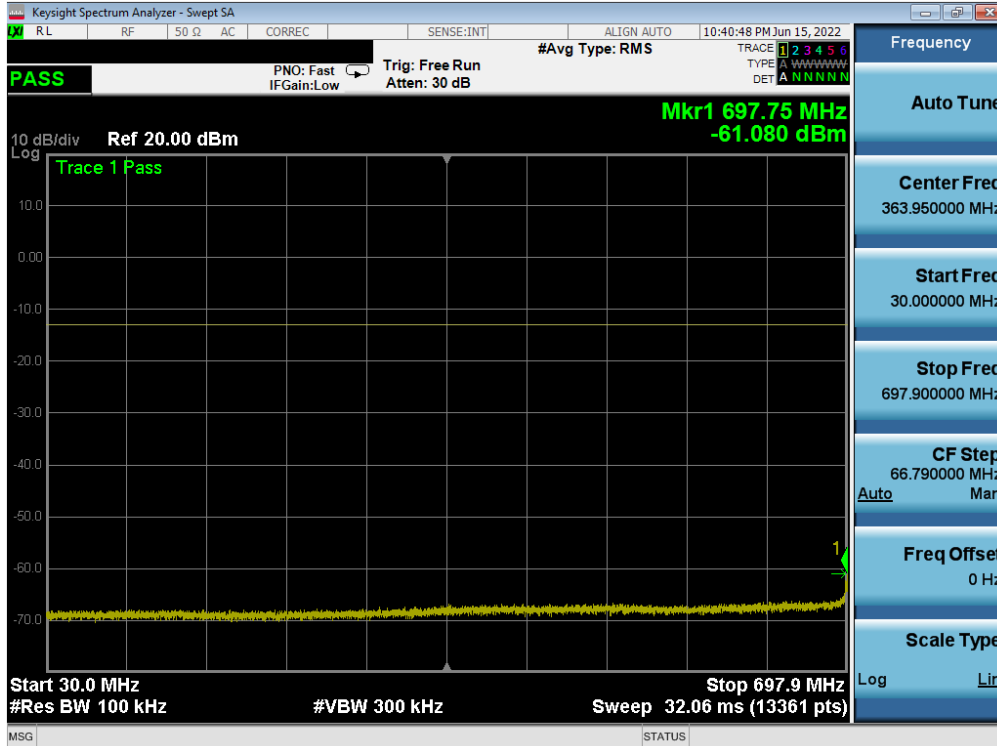


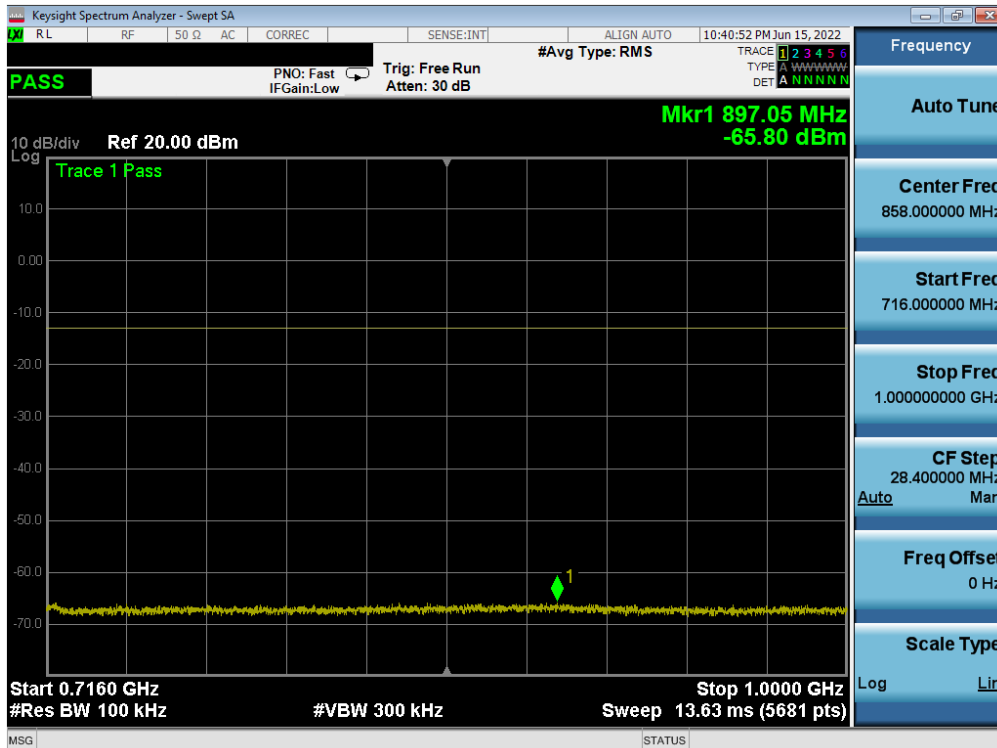
Plot 7-117. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - High Channel)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – Sub ANT

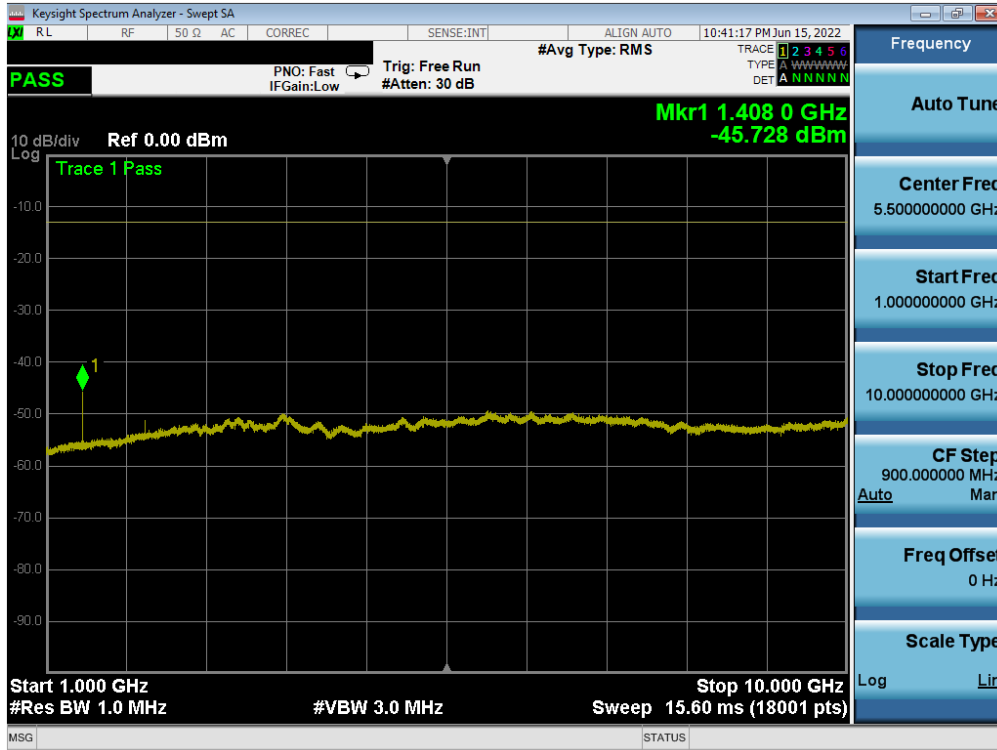


Plot 7-118. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Sub ANT)

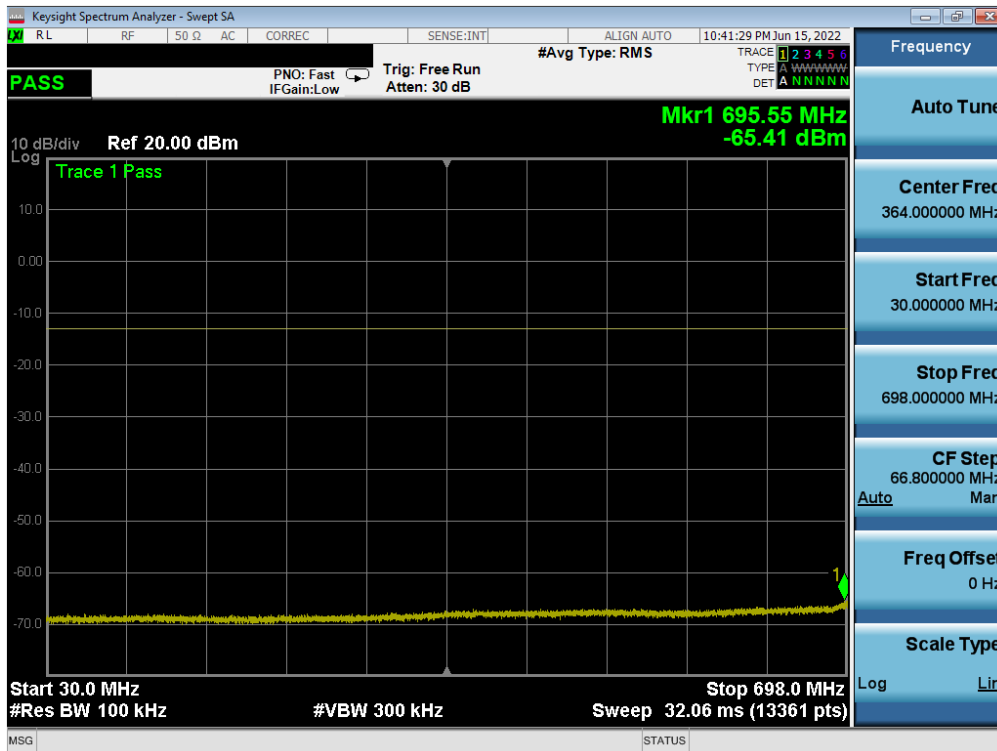


Plot 7-119. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel– Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 85 of 198

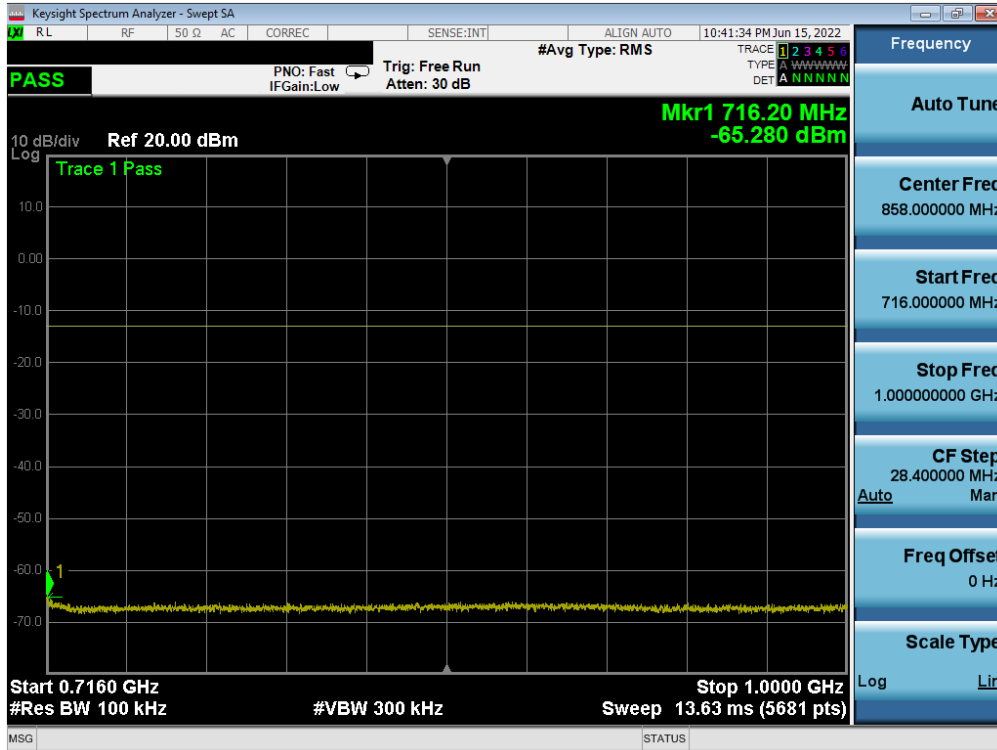


Plot 7-120. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Sub ANT)

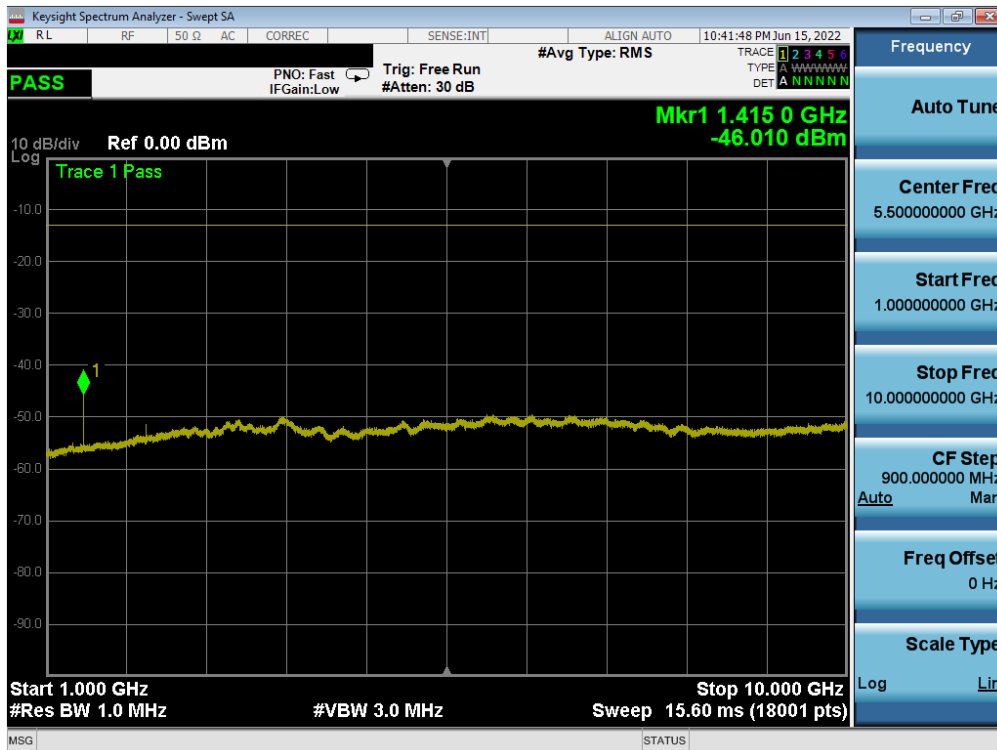


Plot 7-121. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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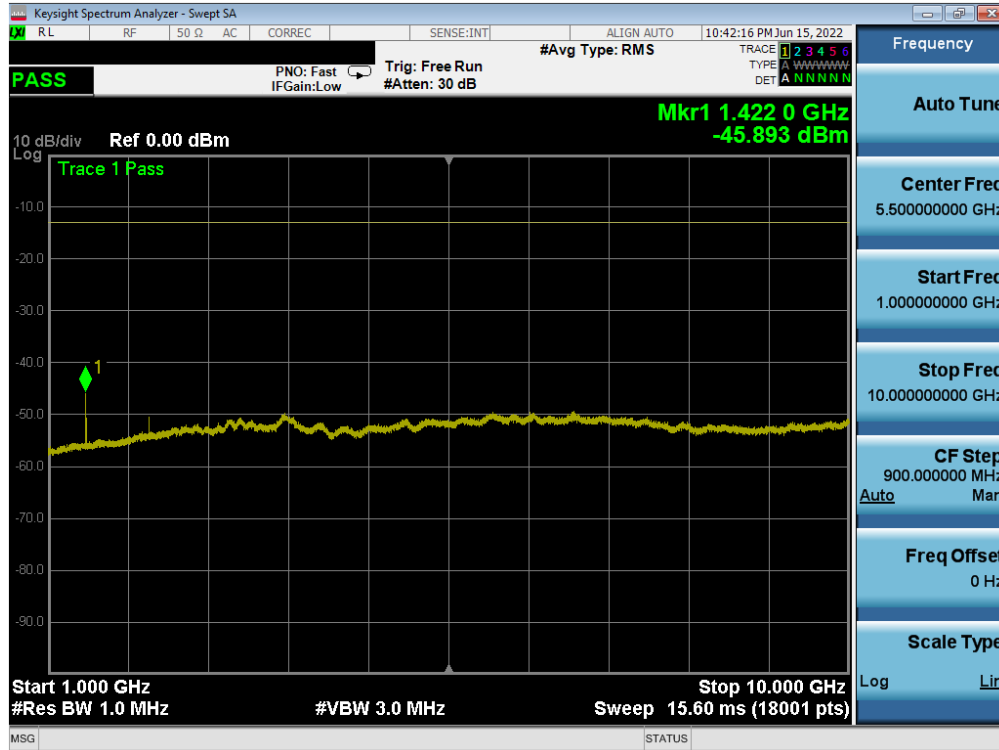


Plot 7-122. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Sub ANT)



Plot 7-123. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Sub ANT)

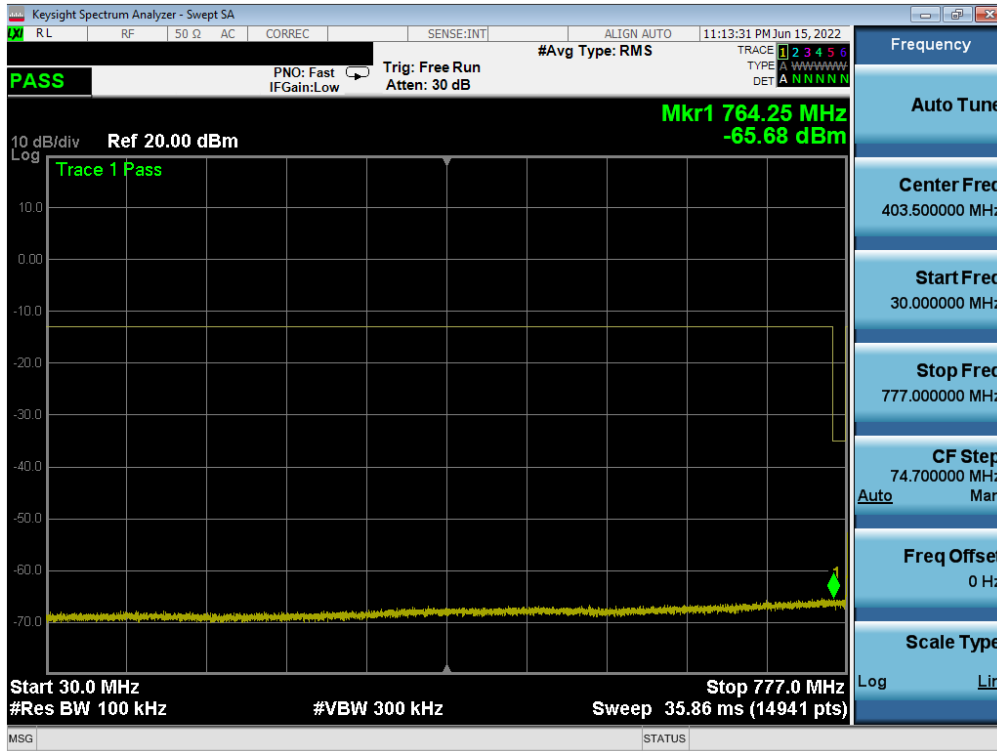
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 87 of 198



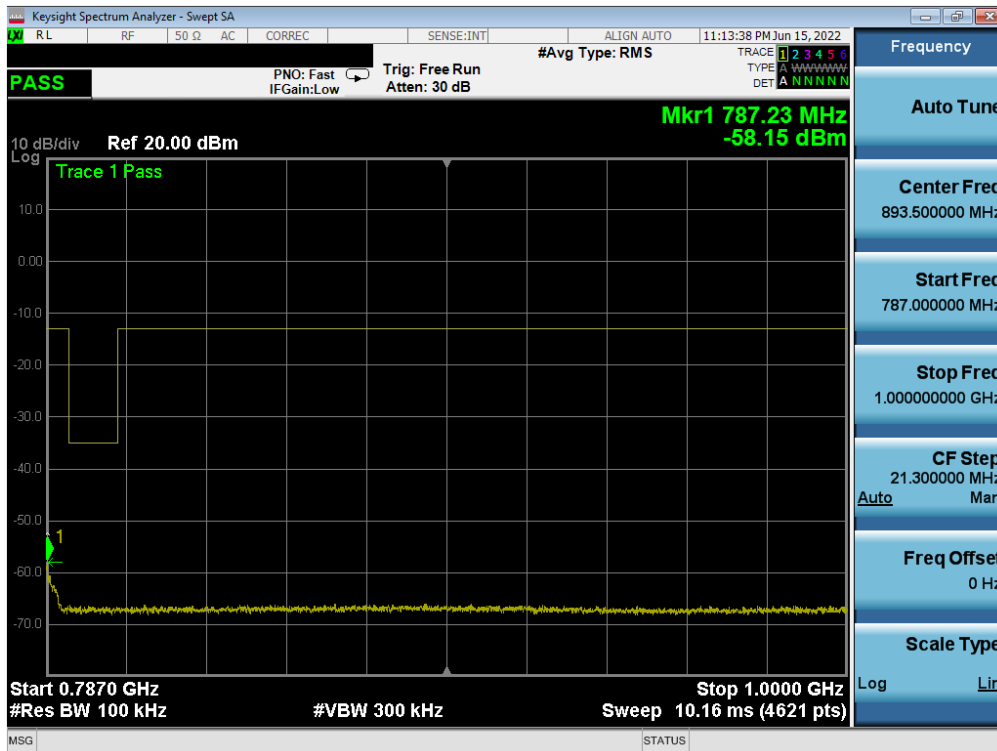
Plot 7-126. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – Sub ANT

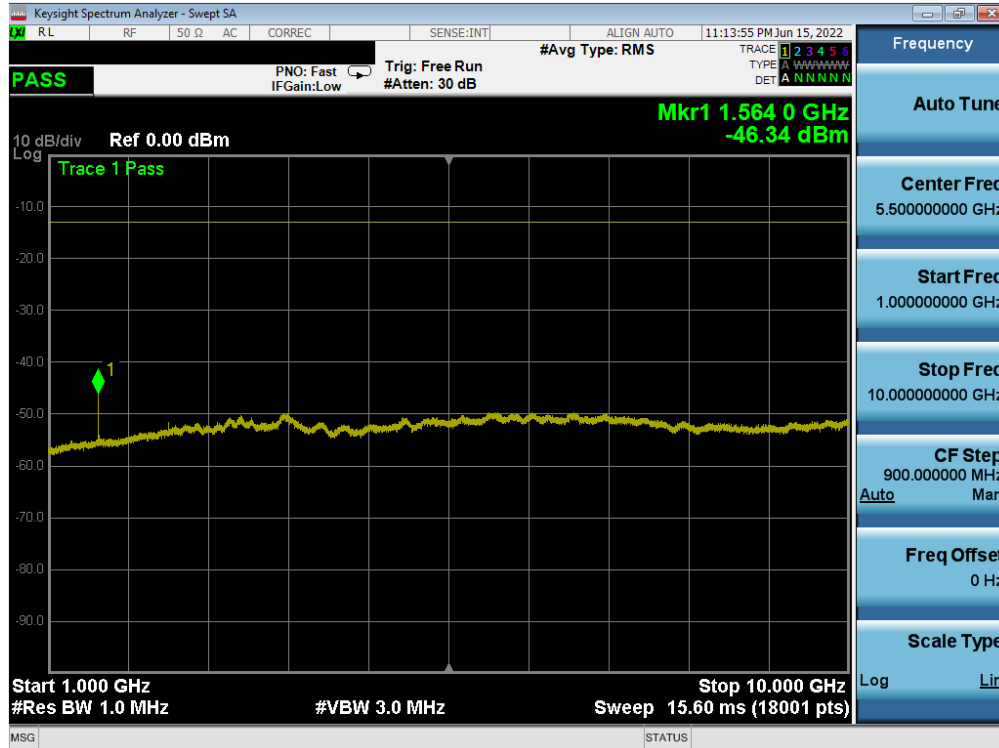


Plot 7-127. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Sub ANT)



Plot 7-128. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-129. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB – Sub ANT)

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7.5 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 $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

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 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.

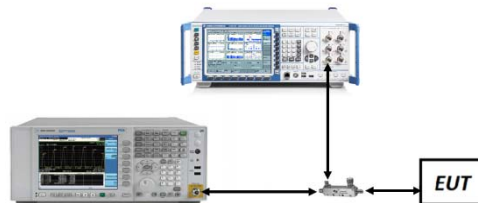


Figure 7-4. Test Instrument & Measurement Setup

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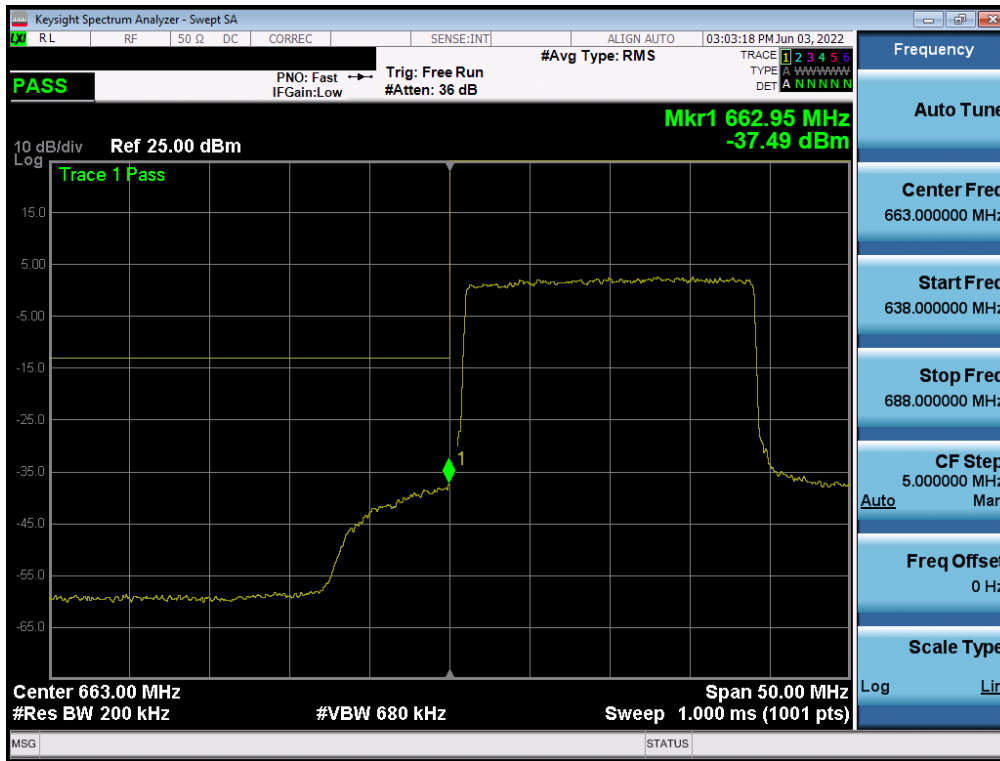
V3.0 1/5/2022

Test Notes

1. Per 27.53(h) for AWS band operation, 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(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

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LTE Band 71

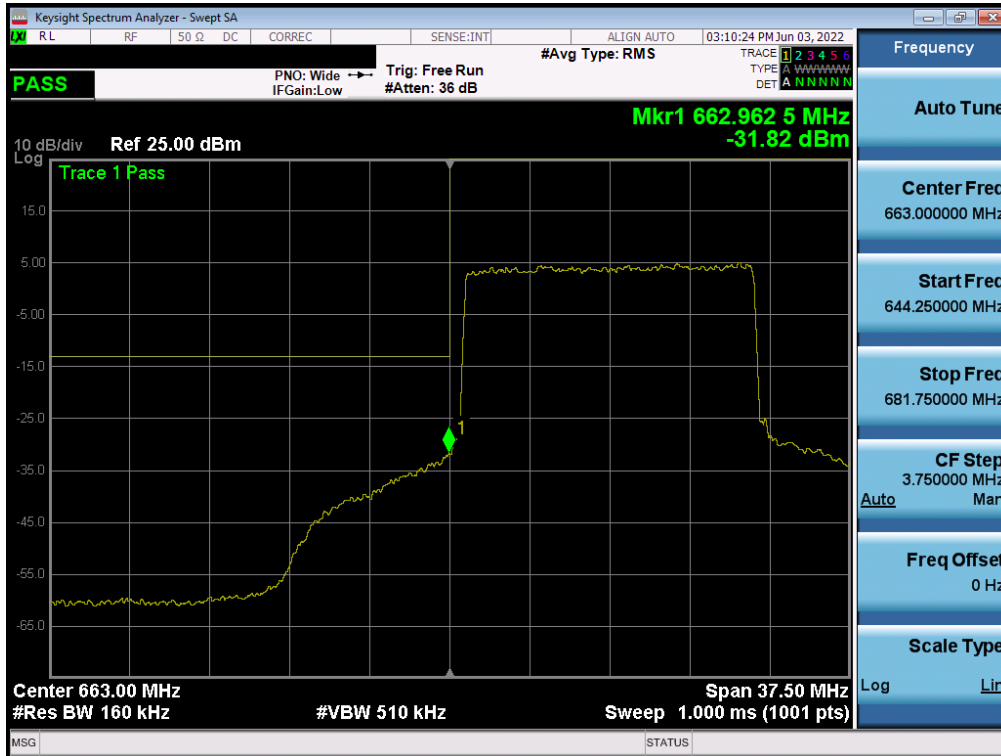


Plot 7-130. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

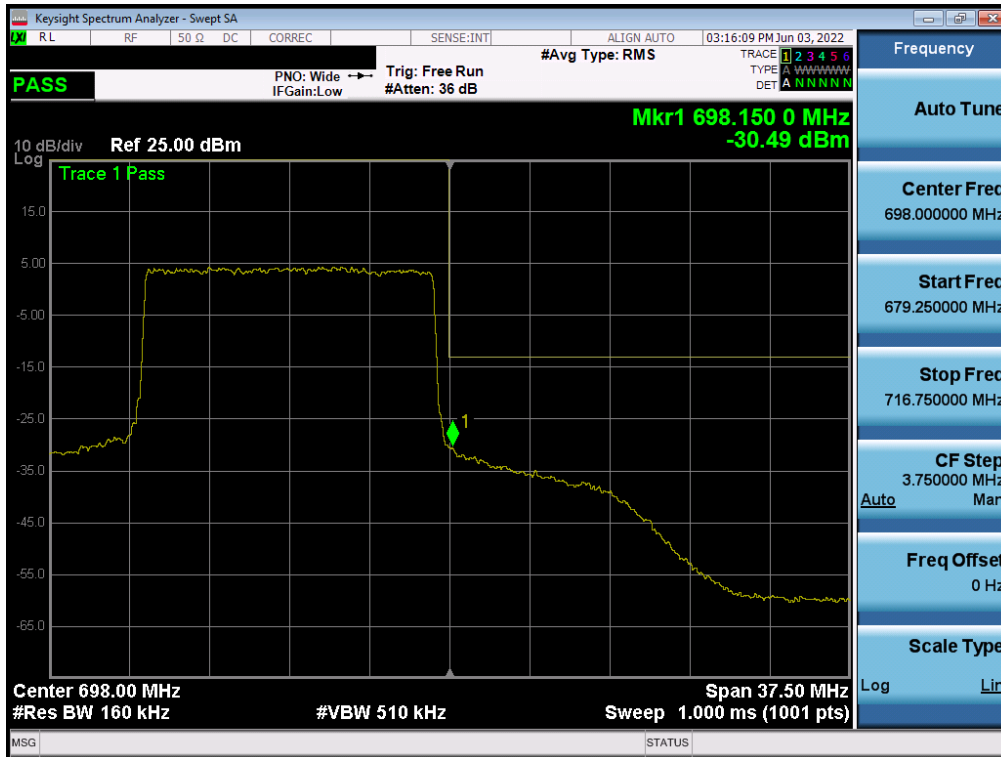


Plot 7-131. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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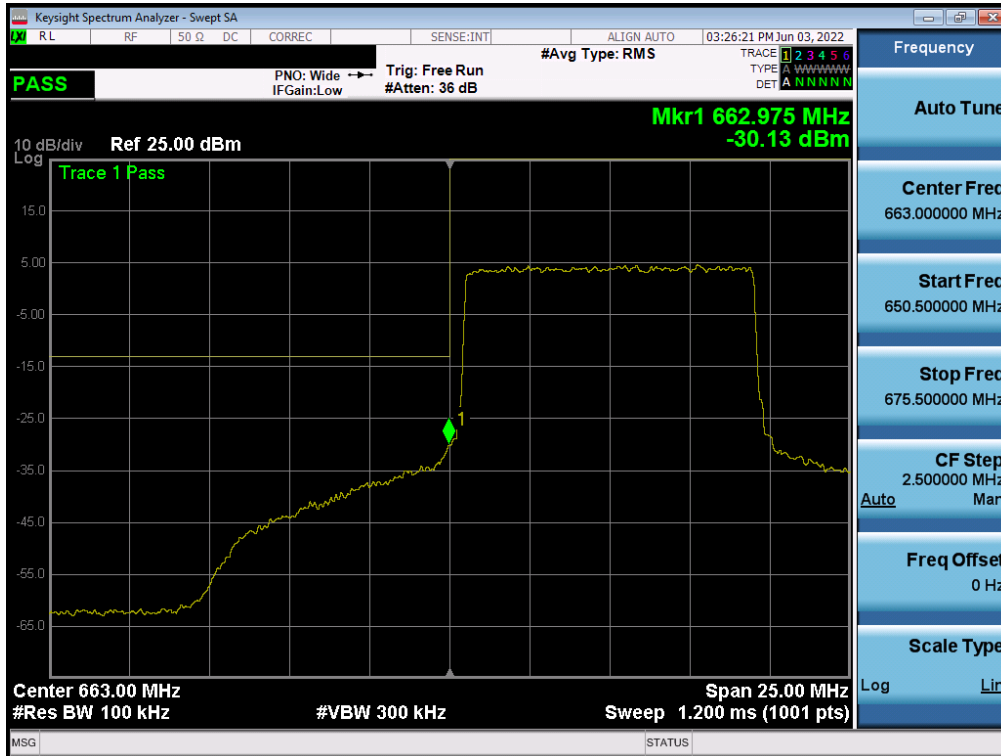


Plot 7-132. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)



Plot 7-133. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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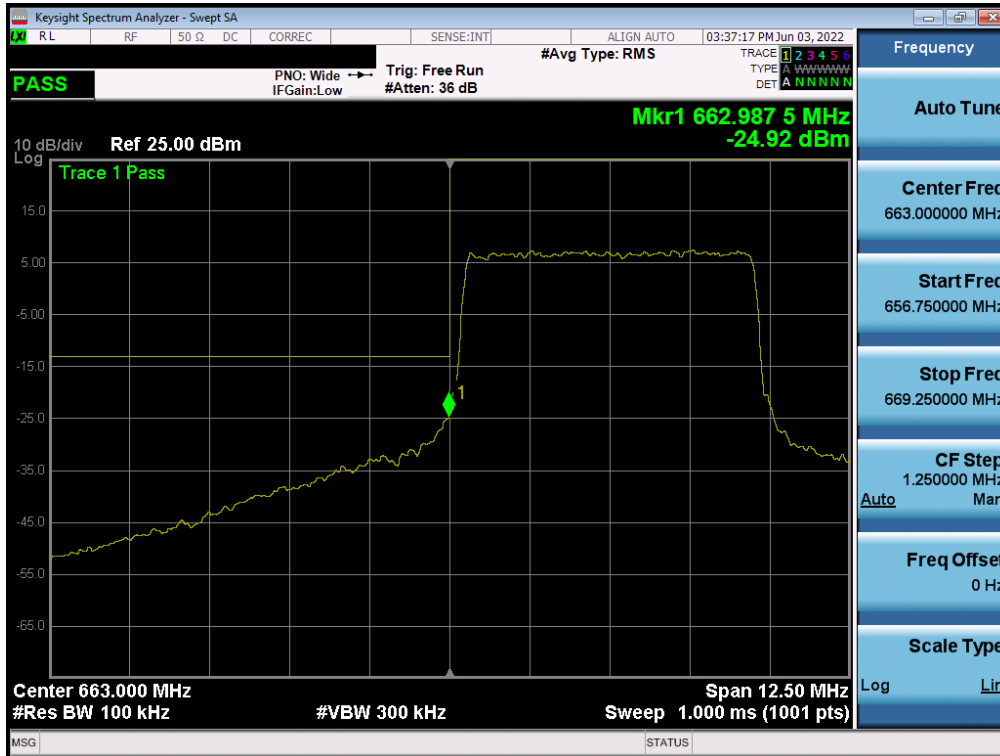


Plot 7-134. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)



Plot 7-135. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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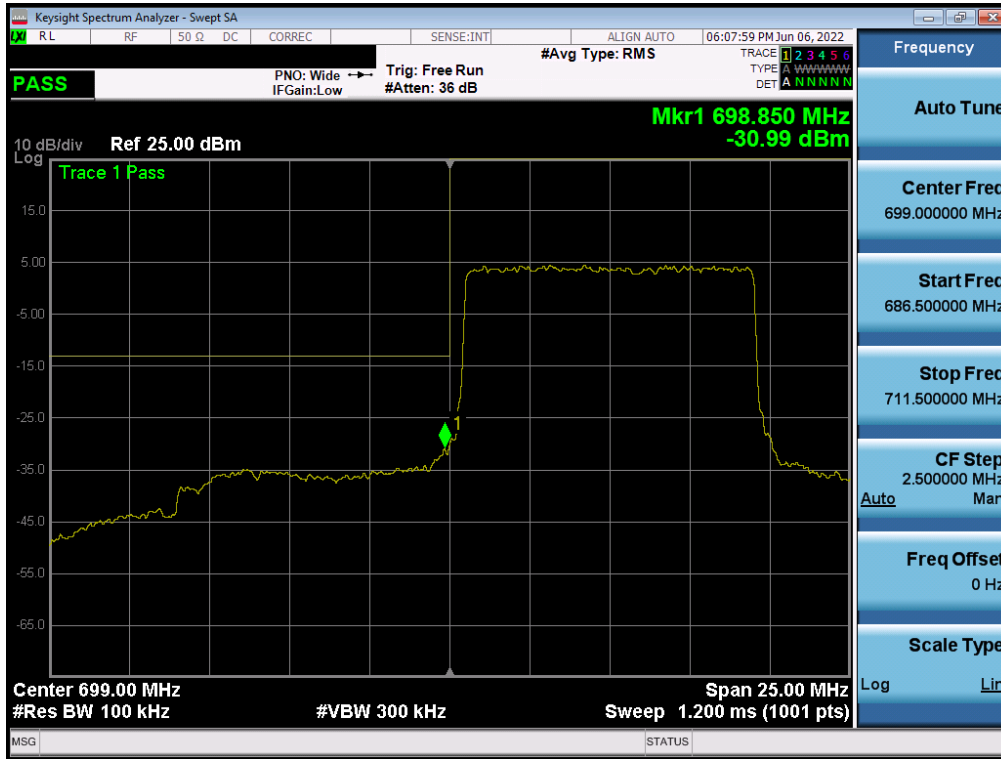
Plot 7-136. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)



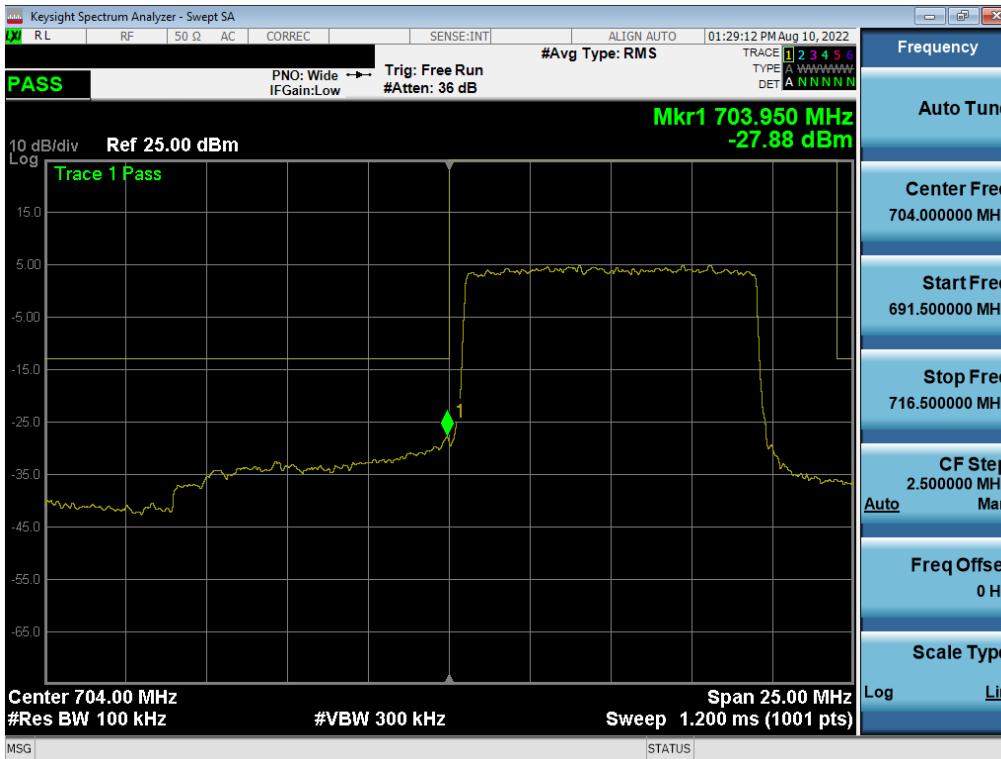
Plot 7-137. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – Main ANT



Plot 7-138. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration – Main ANT)

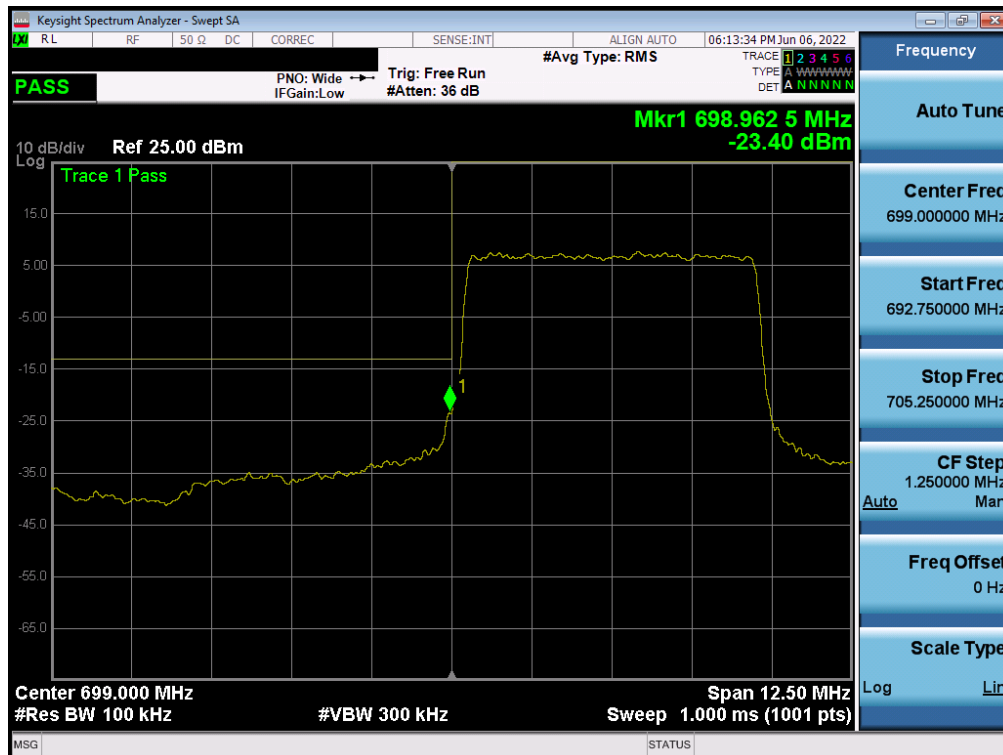


Plot 7-139. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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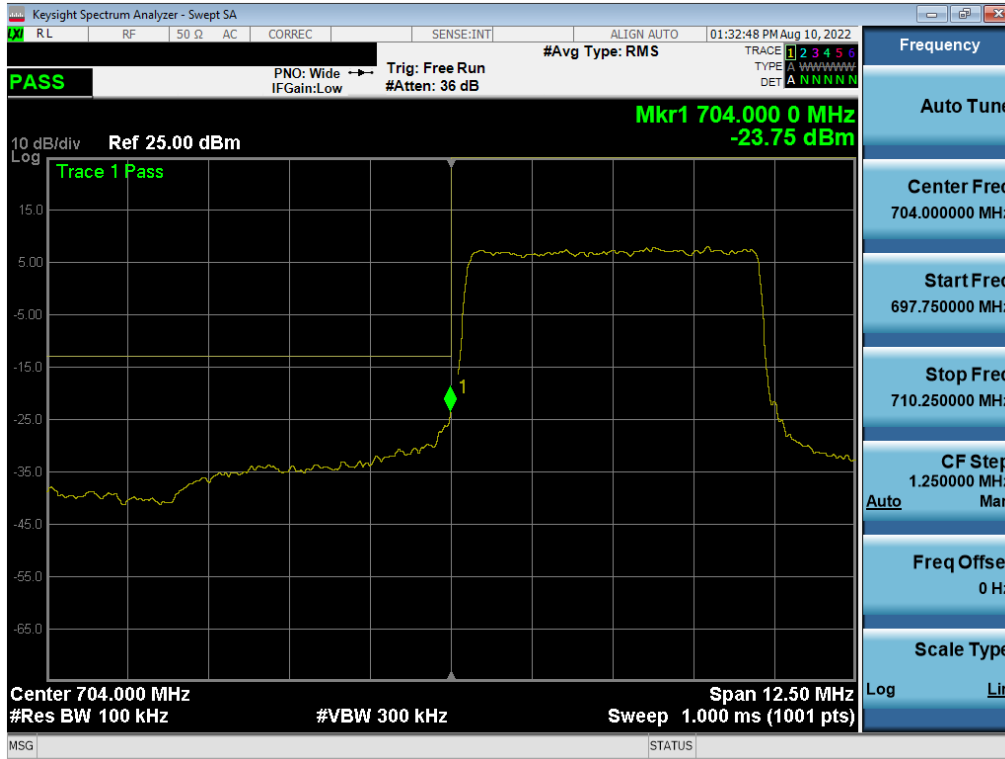


Plot 7-140. Upper Band Edge Plot (LTE Band 12/17 - 10MHz QPSK – Full RB Configuration – Main ANT)

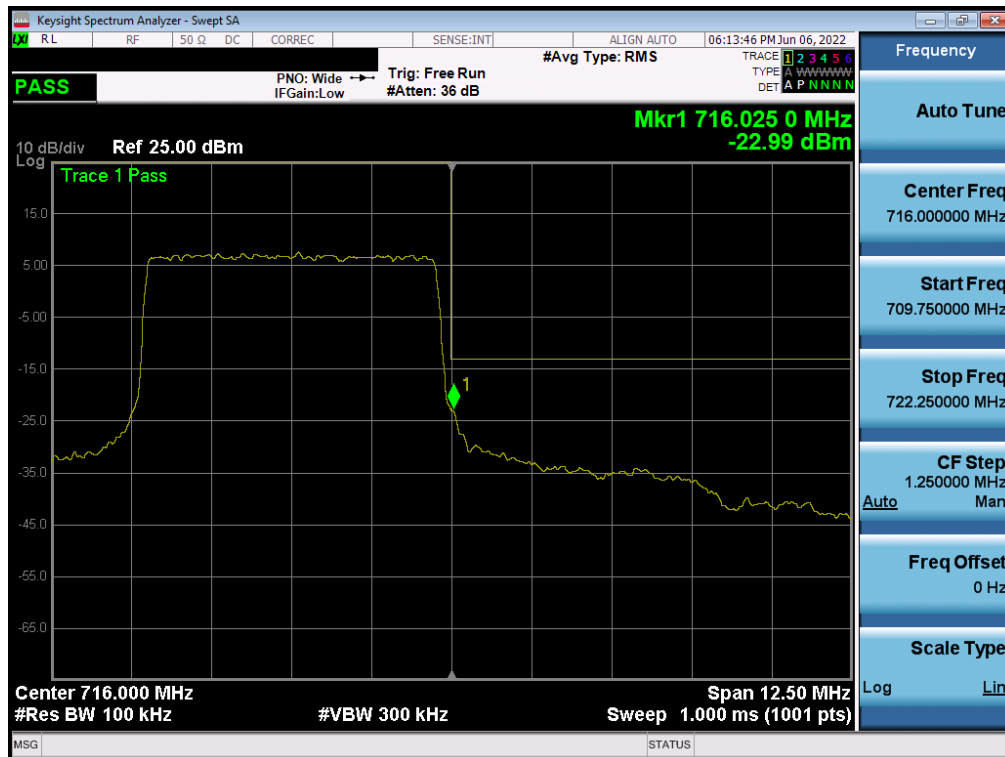


Plot 7-141. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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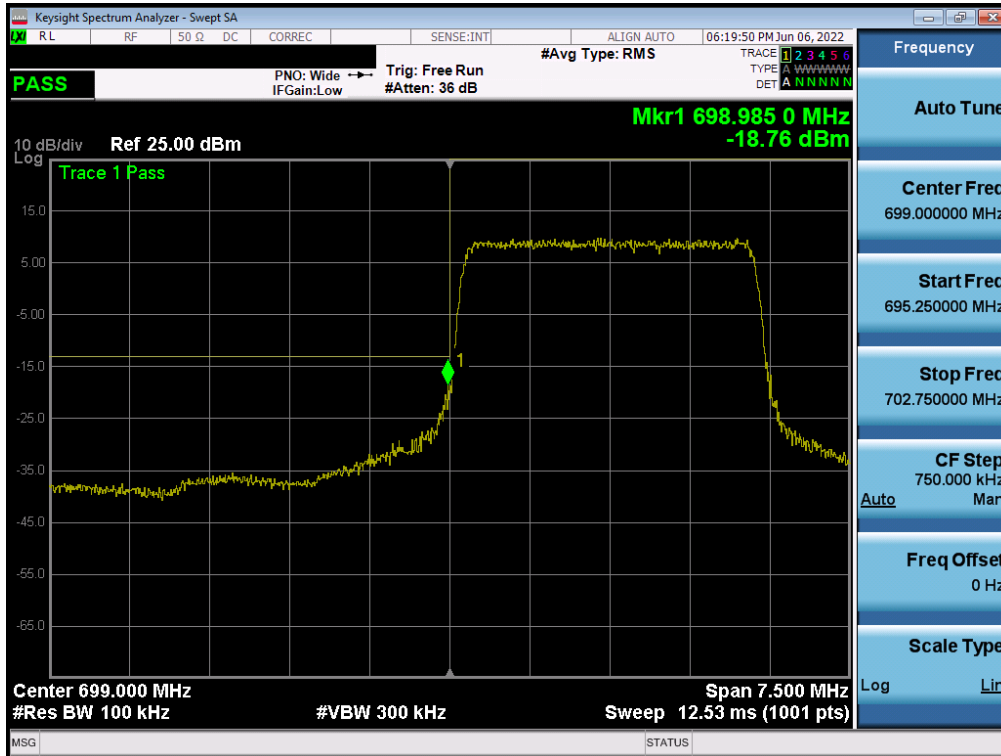


Plot 7-142. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB Configuration – Main ANT)

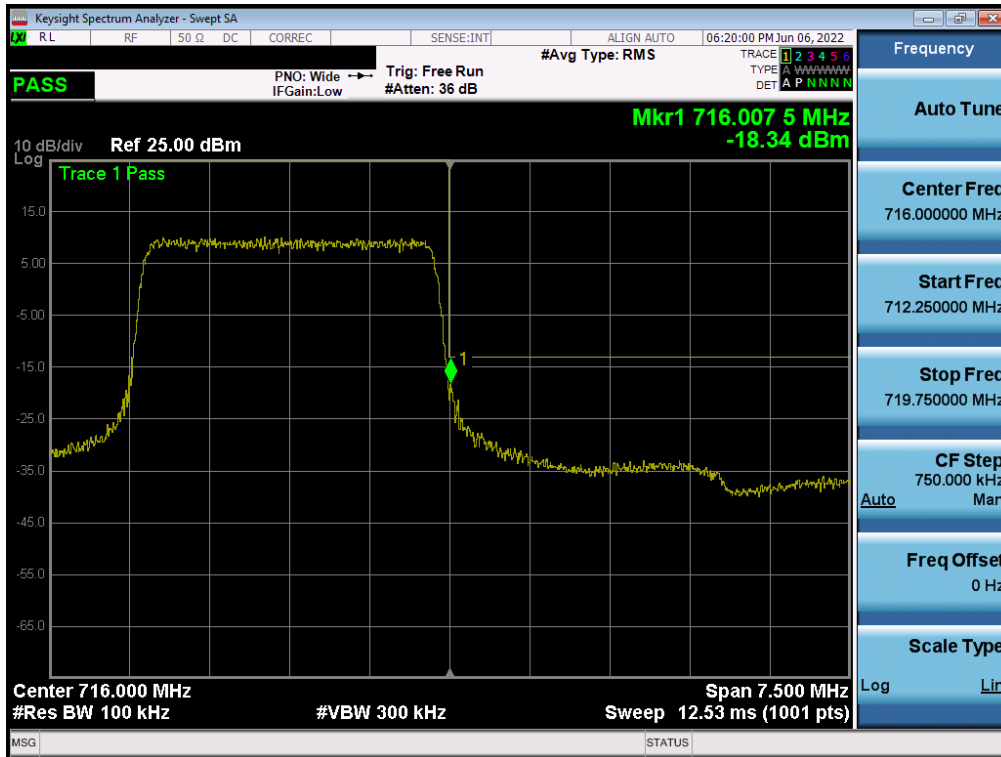


Plot 7-143. Upper Band Edge Plot (LTE Band 12/17 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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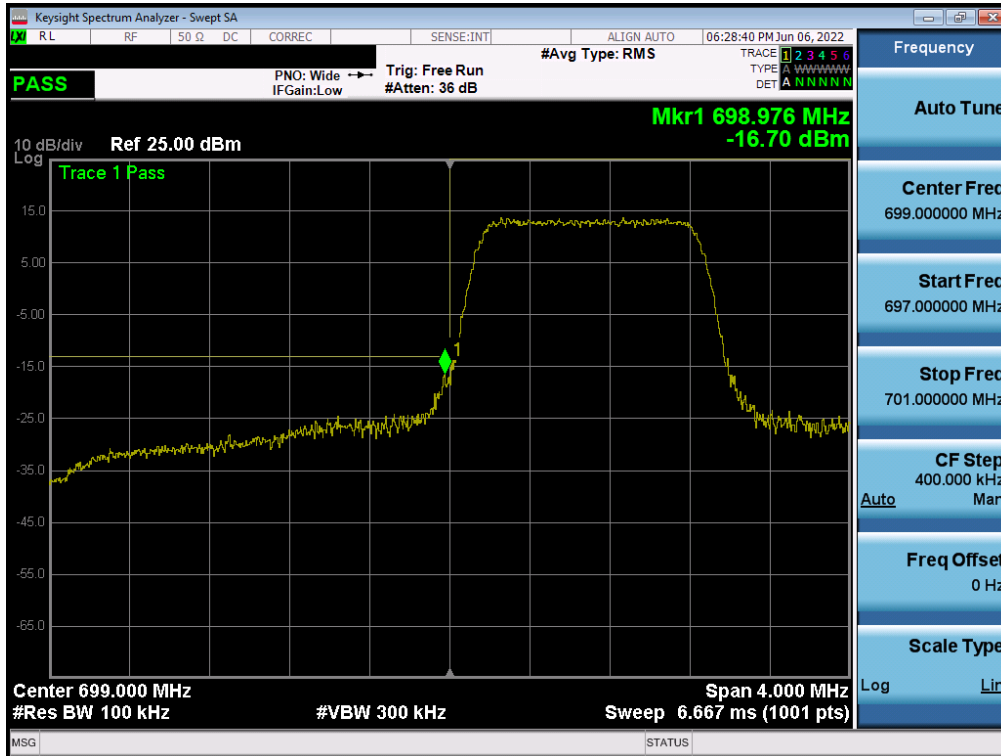


Plot 7-144. Lower Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Main ANT)

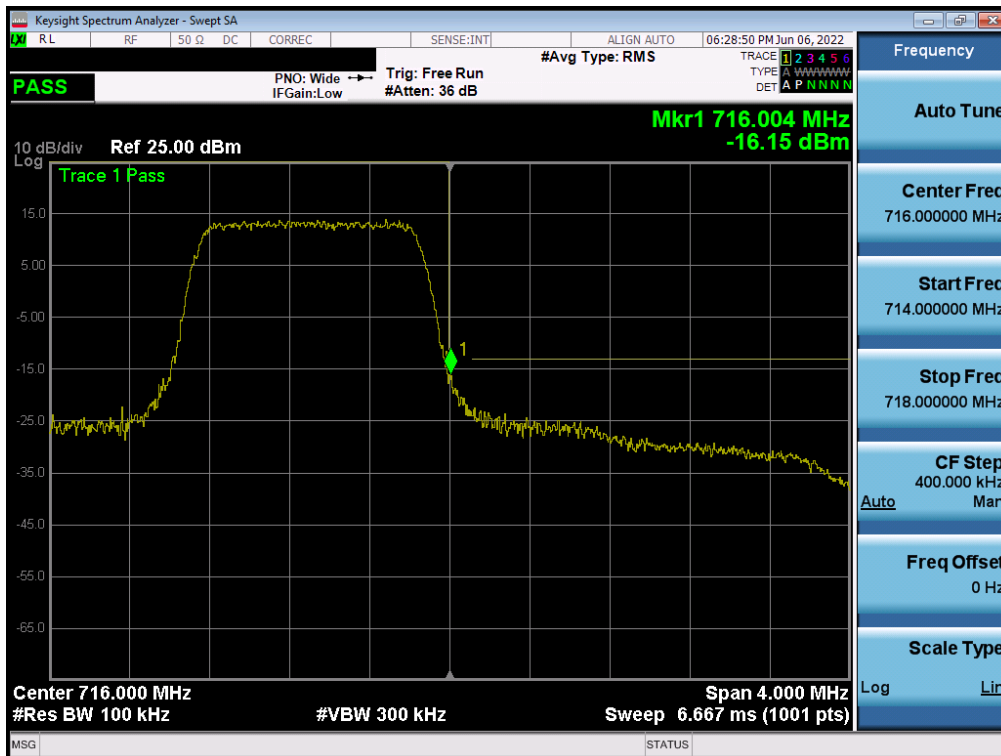


Plot 7-145. Upper Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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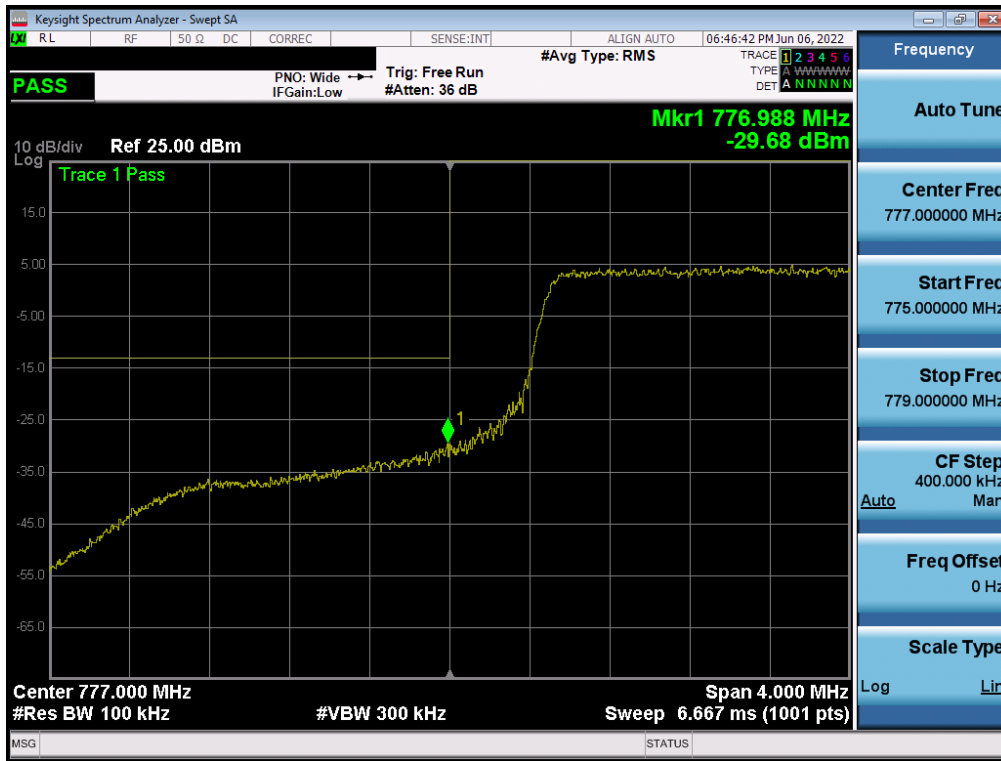
Plot 7-146. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Main ANT)



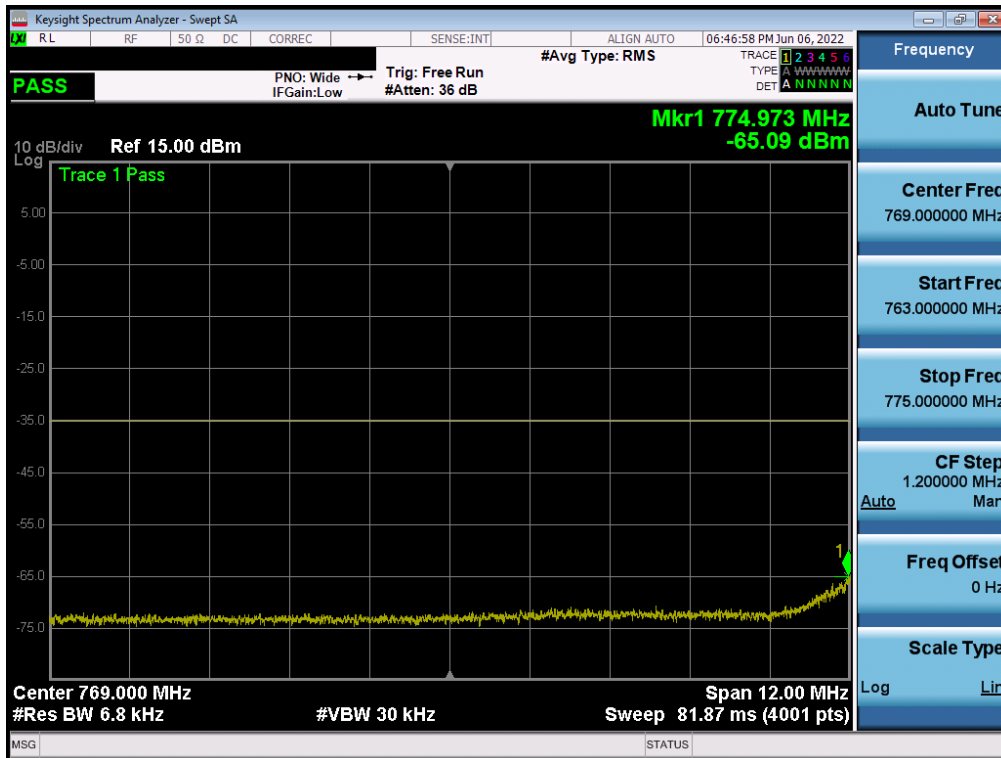
Plot 7-147. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – Main ANT

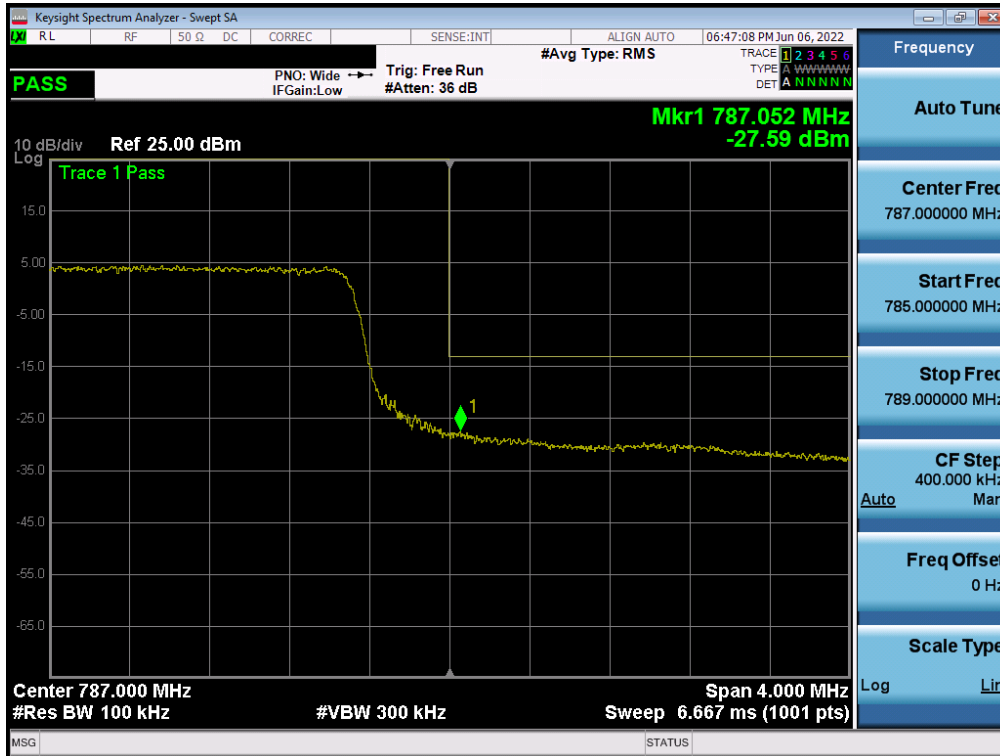


Plot 7-148. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-149. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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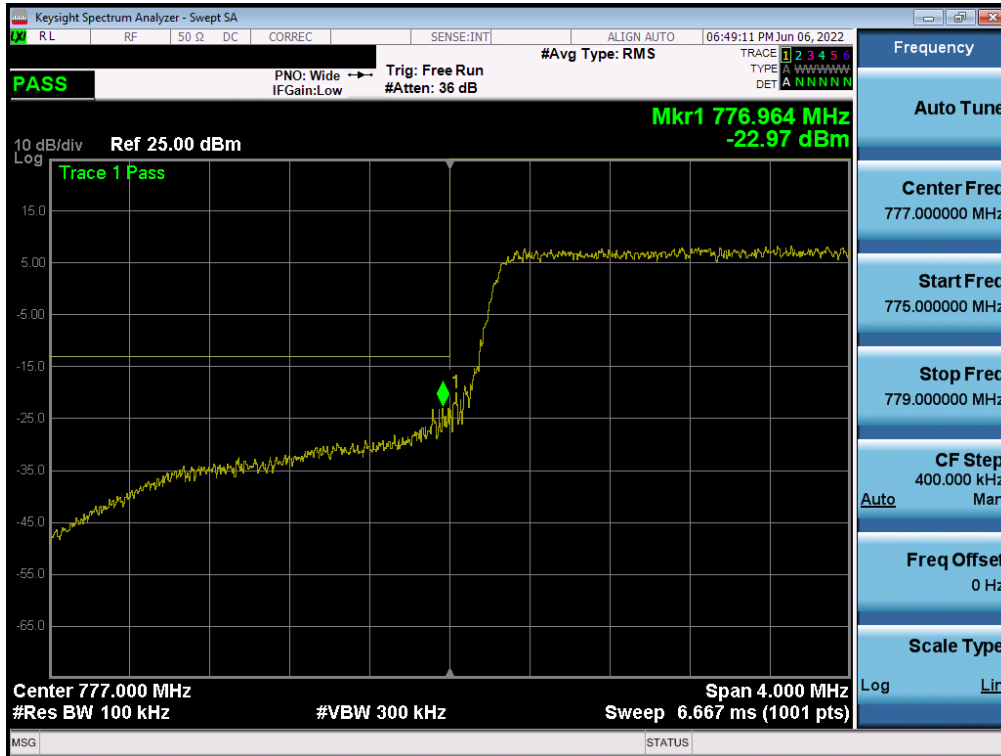


Plot 7-150. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)

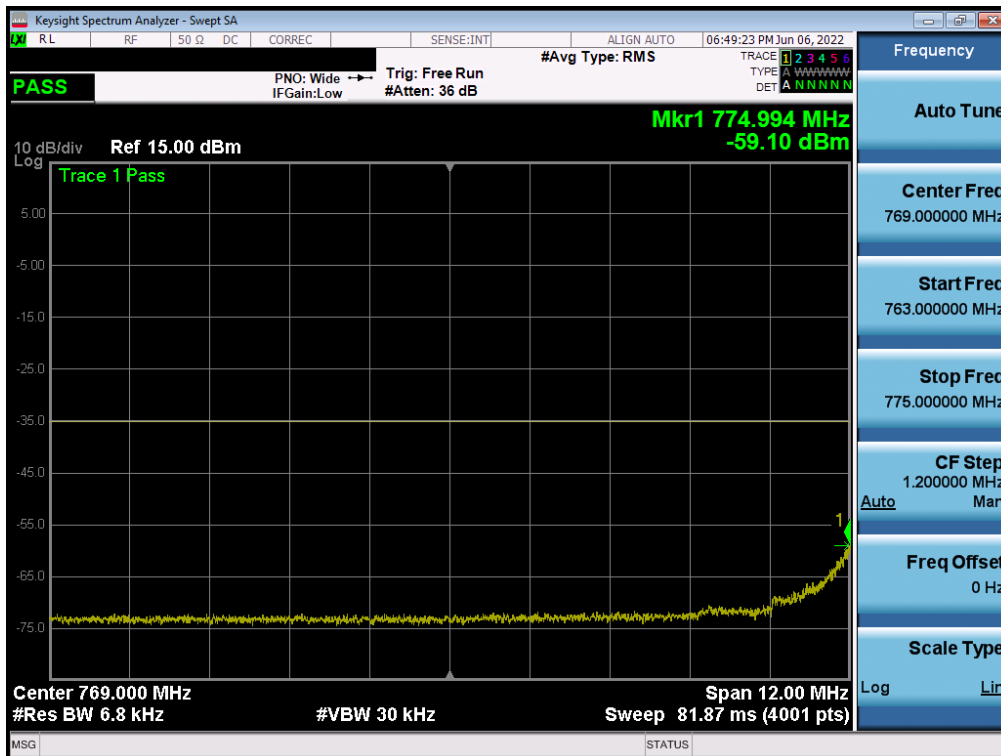


Plot 7-151. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-152. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-153. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-154. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)



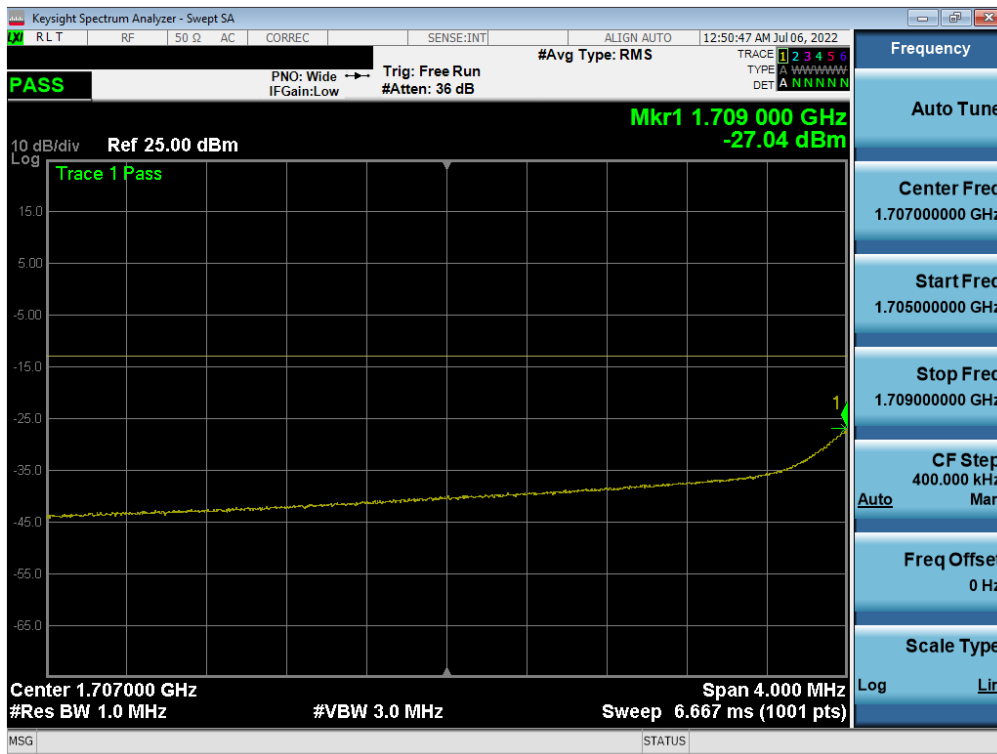
Plot 7-155. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS



Plot 7-156. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)

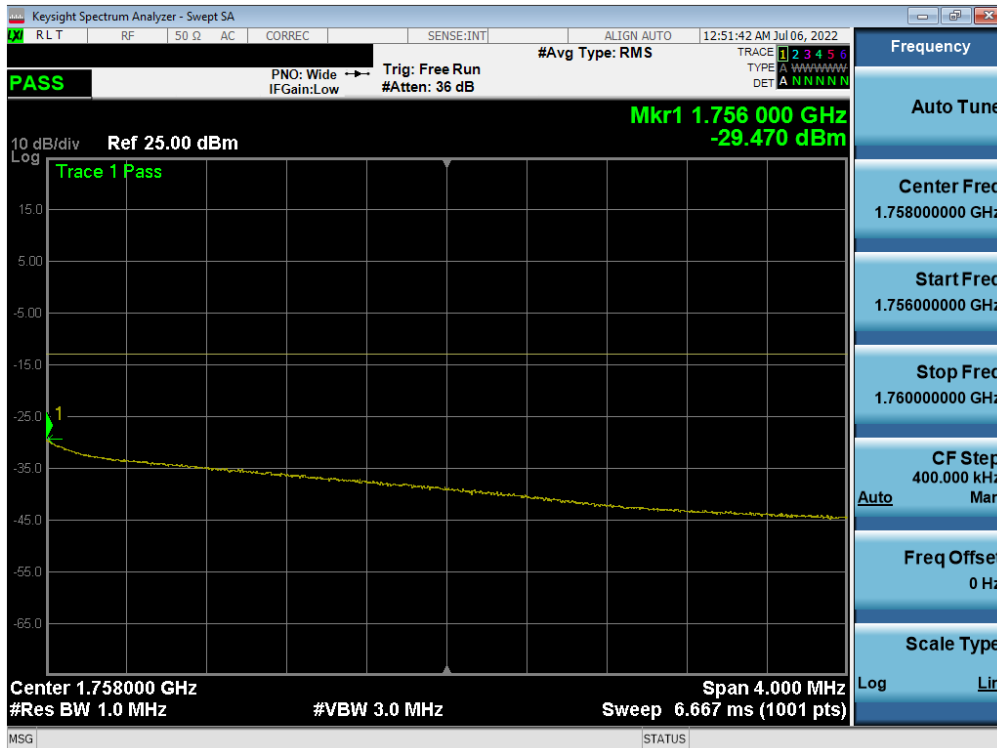


Plot 7-157. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 107 of 198



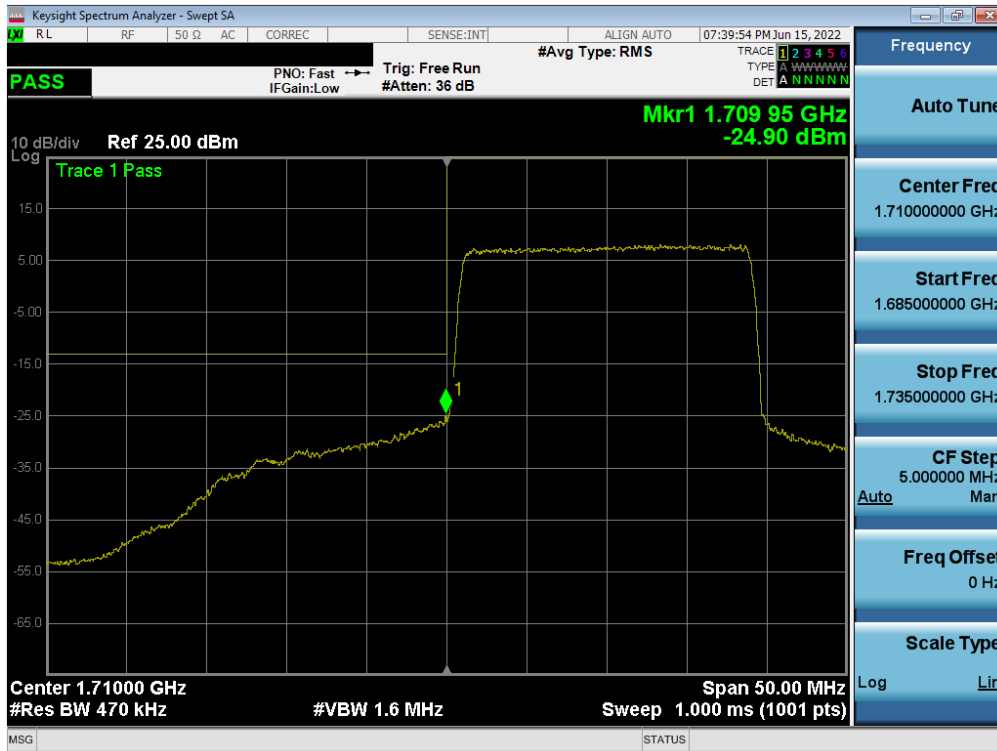
Plot 7-158. Upper Band Edge Plot (WCDMA AWS – Ch. 1513)



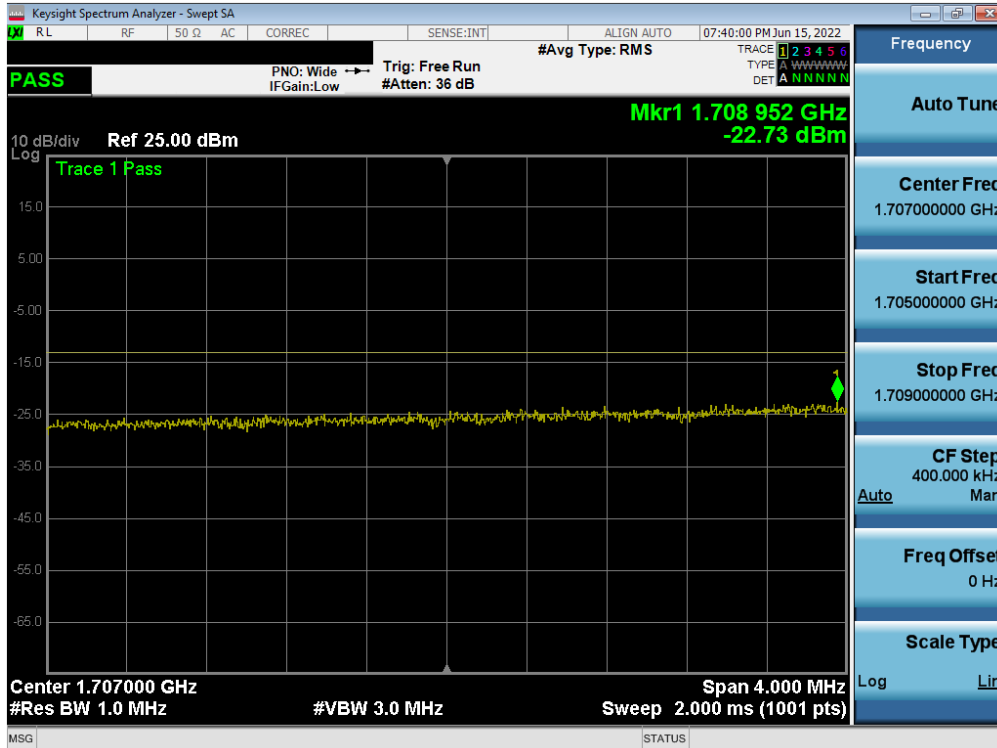
Plot 7-159. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4



Plot 7-160. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

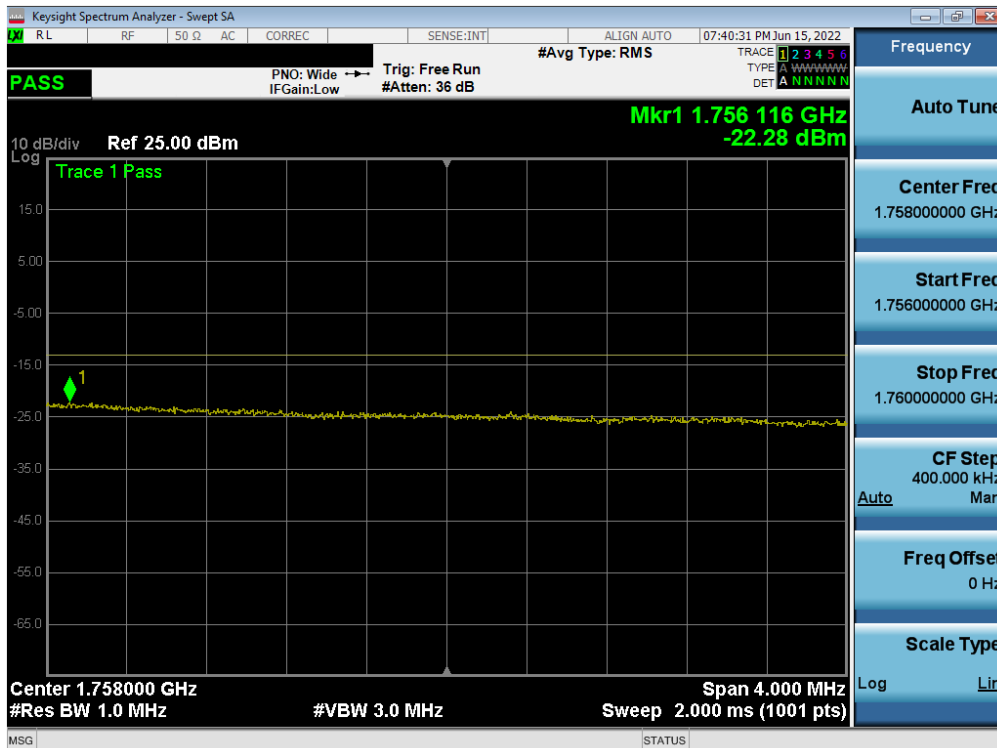


Plot 7-161. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-162. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

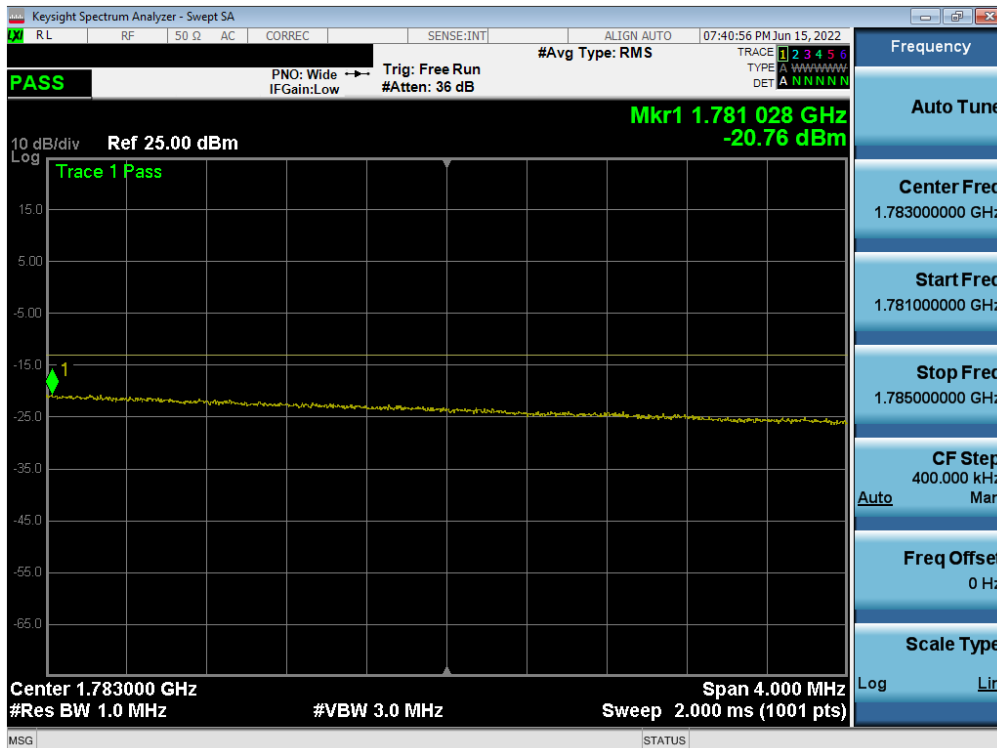


Plot 7-163. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 110 of 198

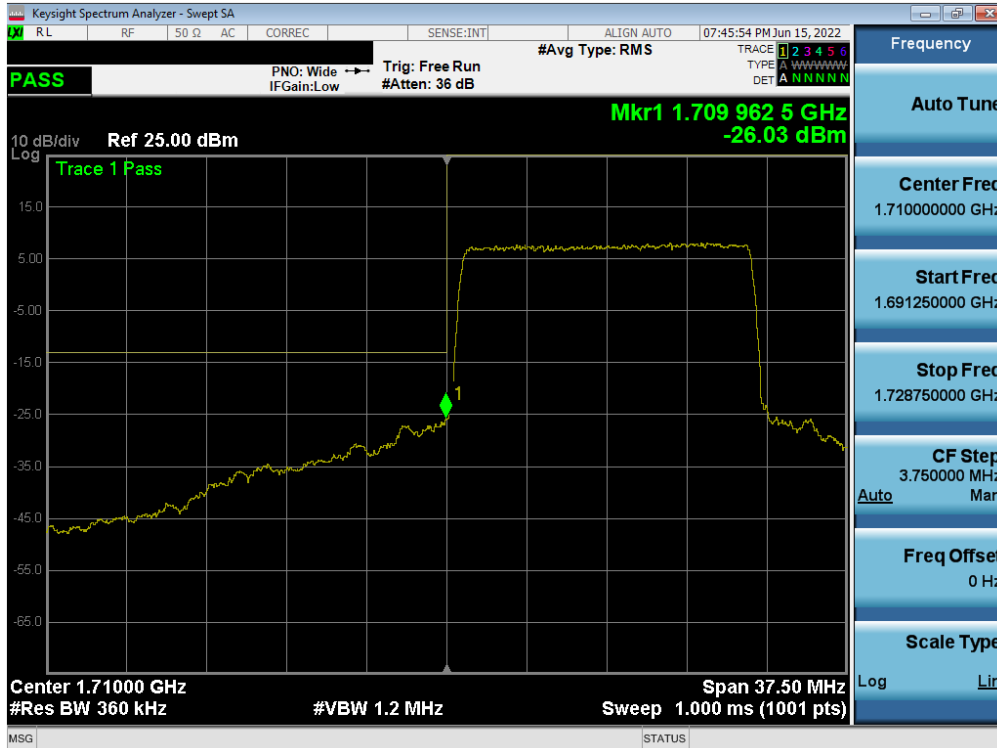


Plot 7-164. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

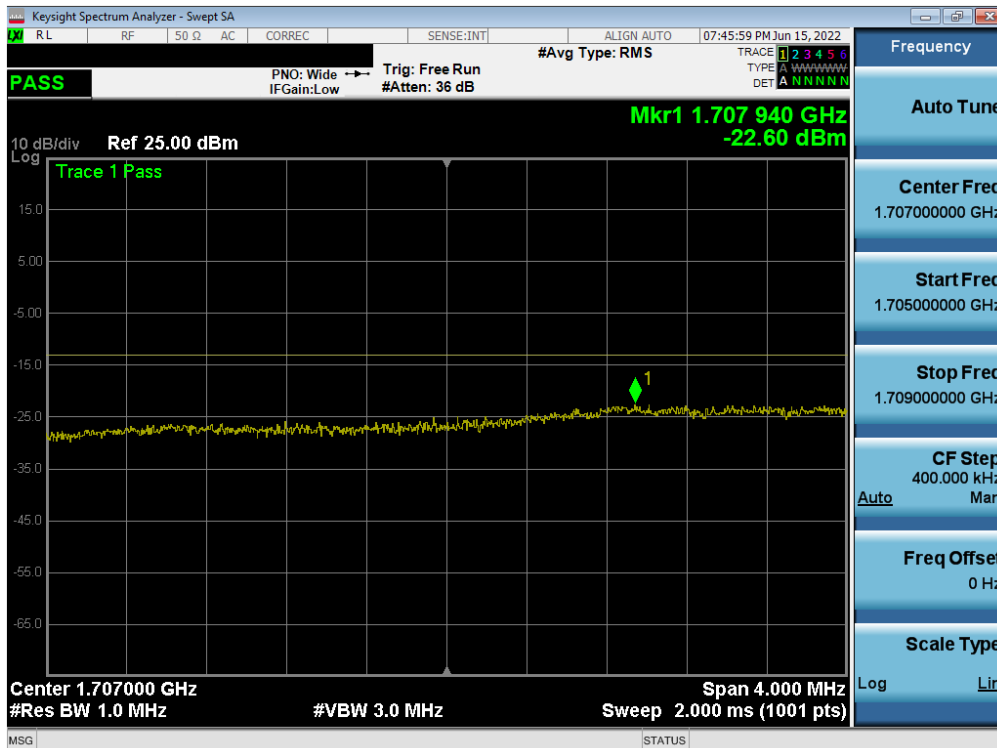


Plot 7-165. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-166. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

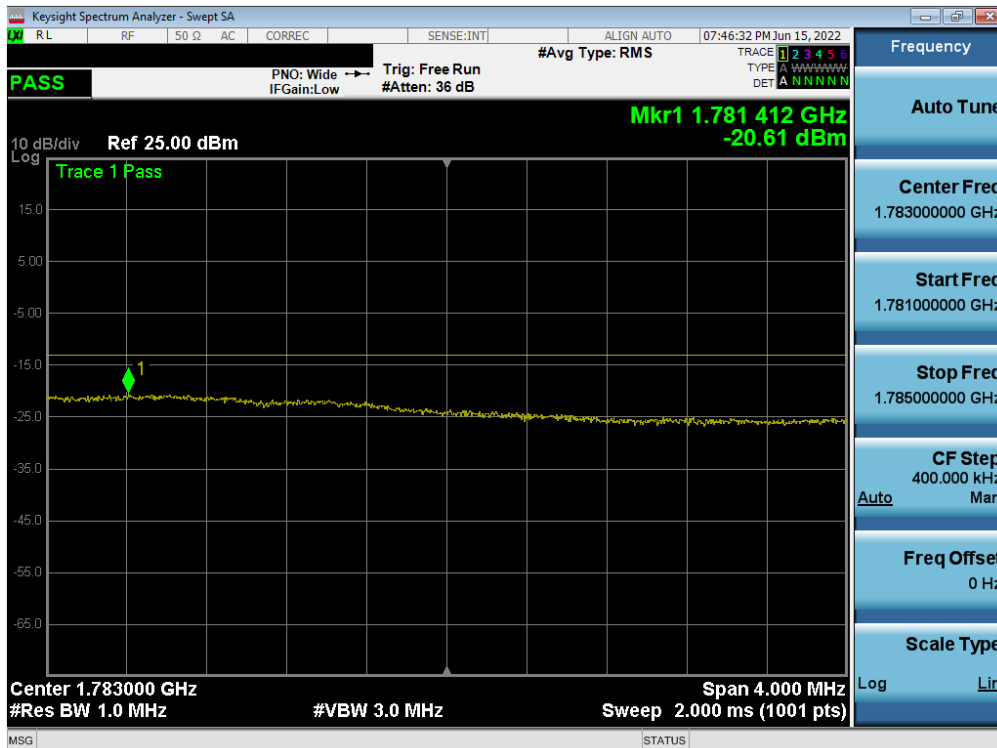


Plot 7-167. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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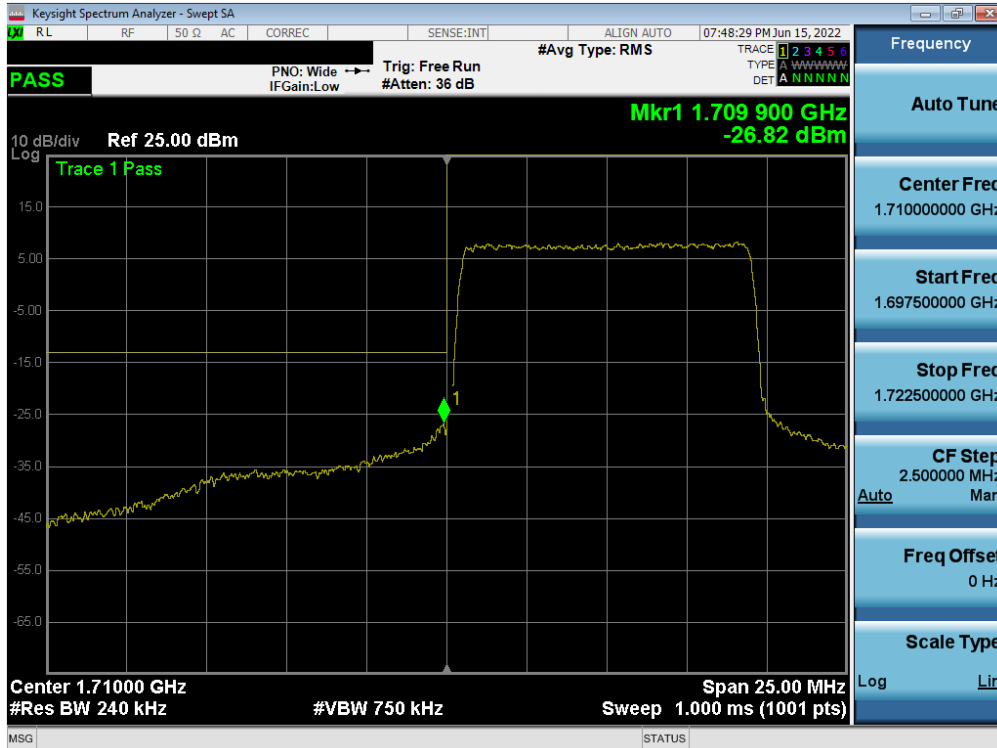


Plot 7-170. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

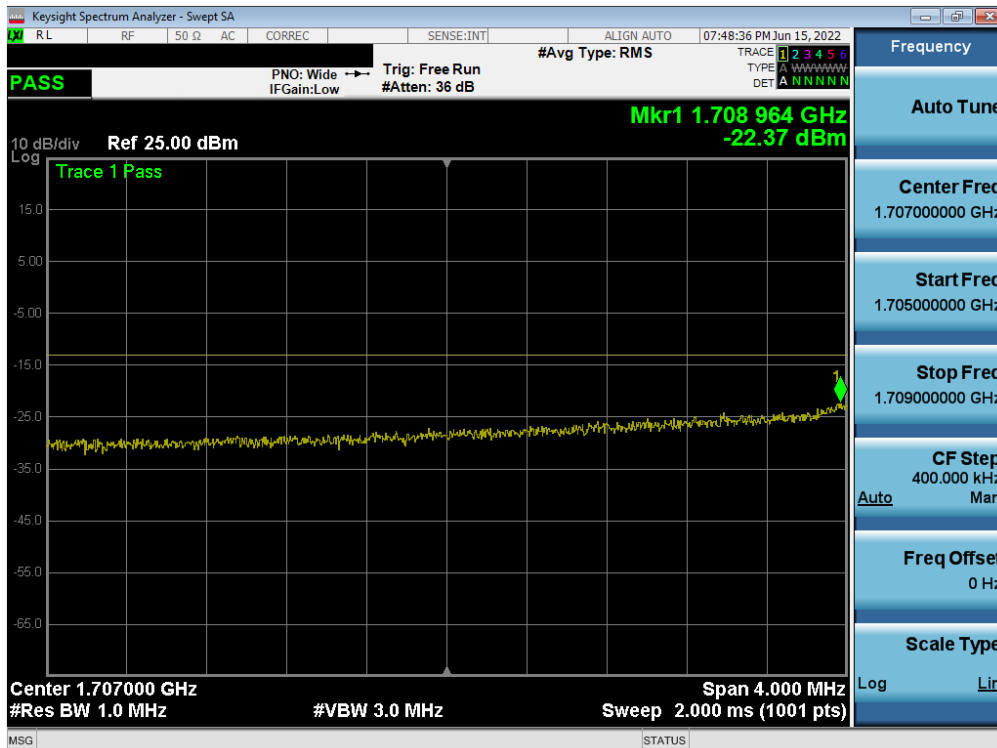


Plot 7-171. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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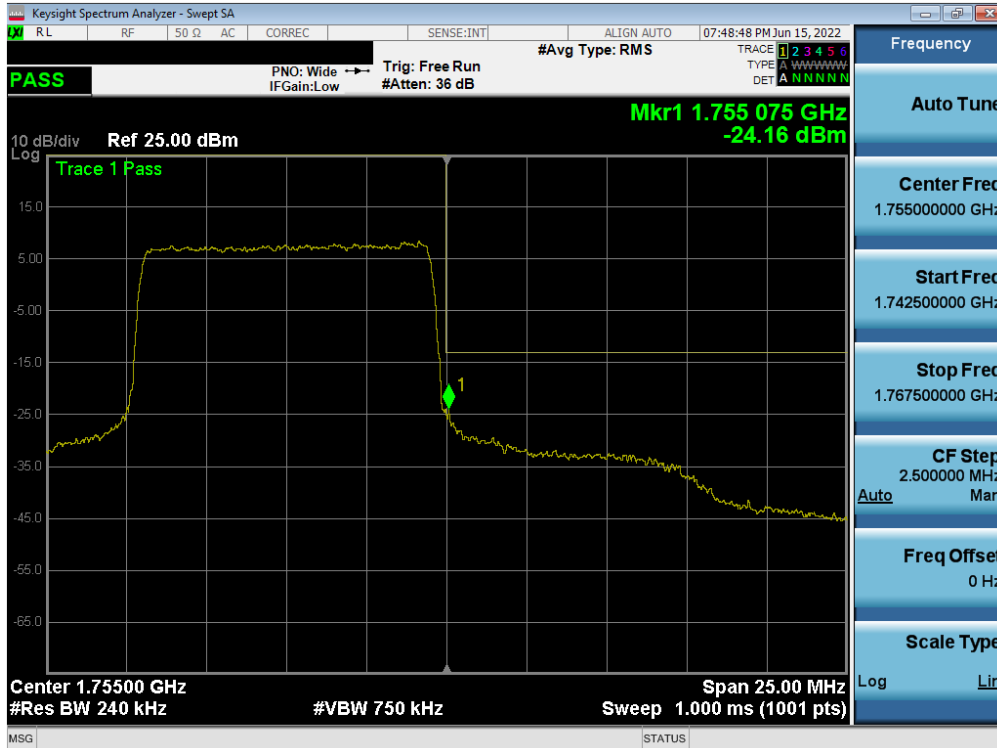


Plot 7-172. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

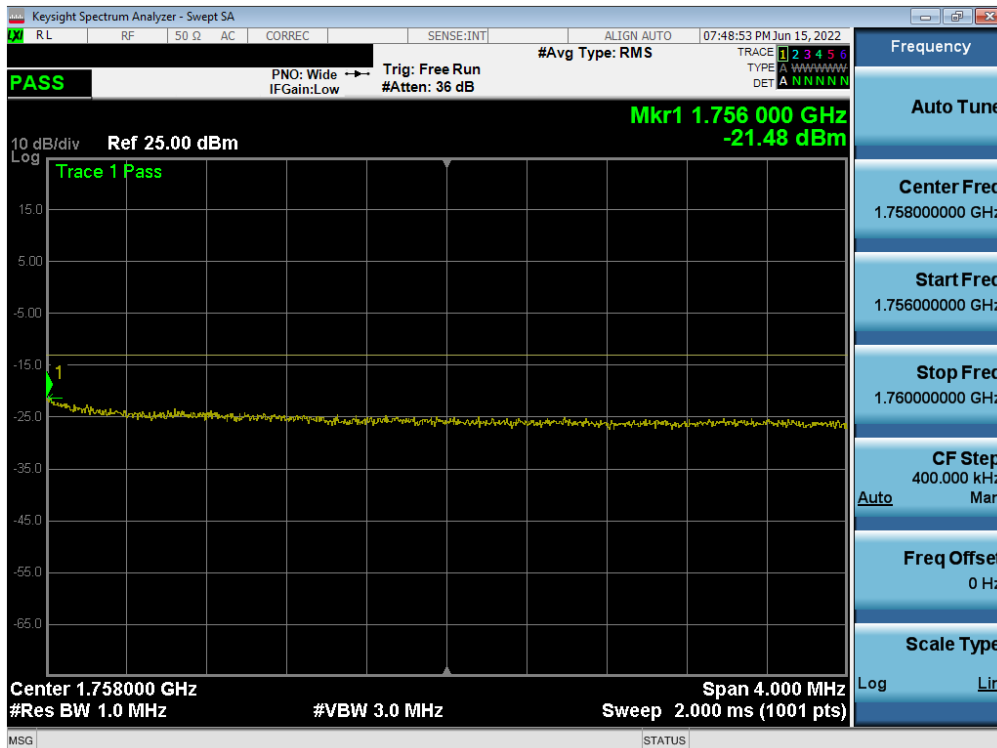


Plot 7-173. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 115 of 198

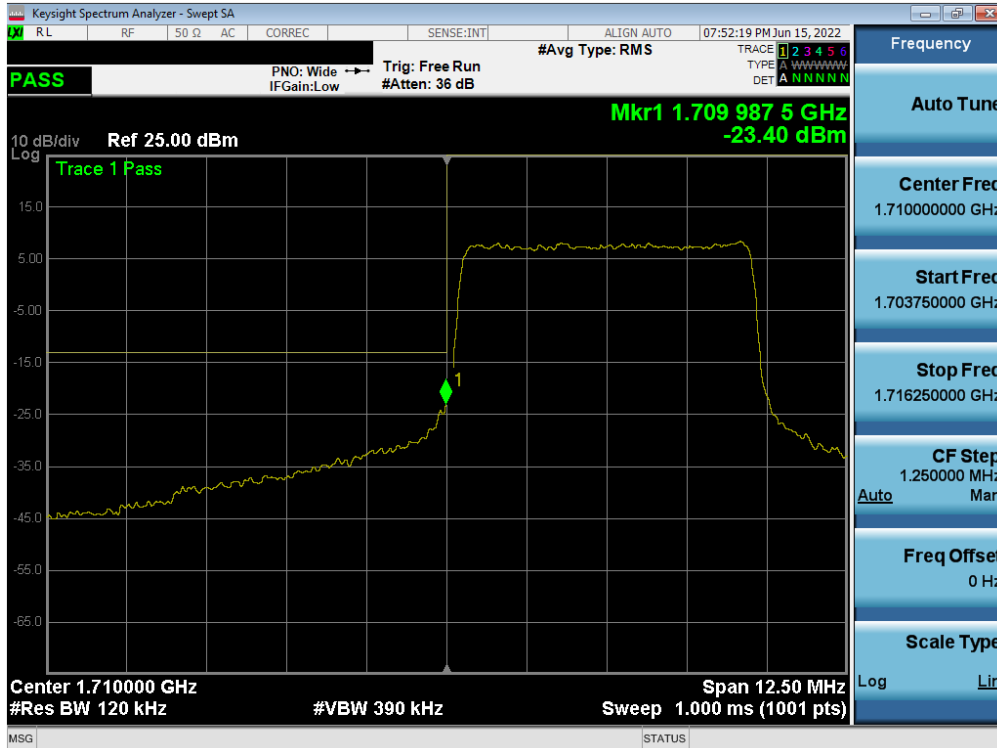


Plot 7-174. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

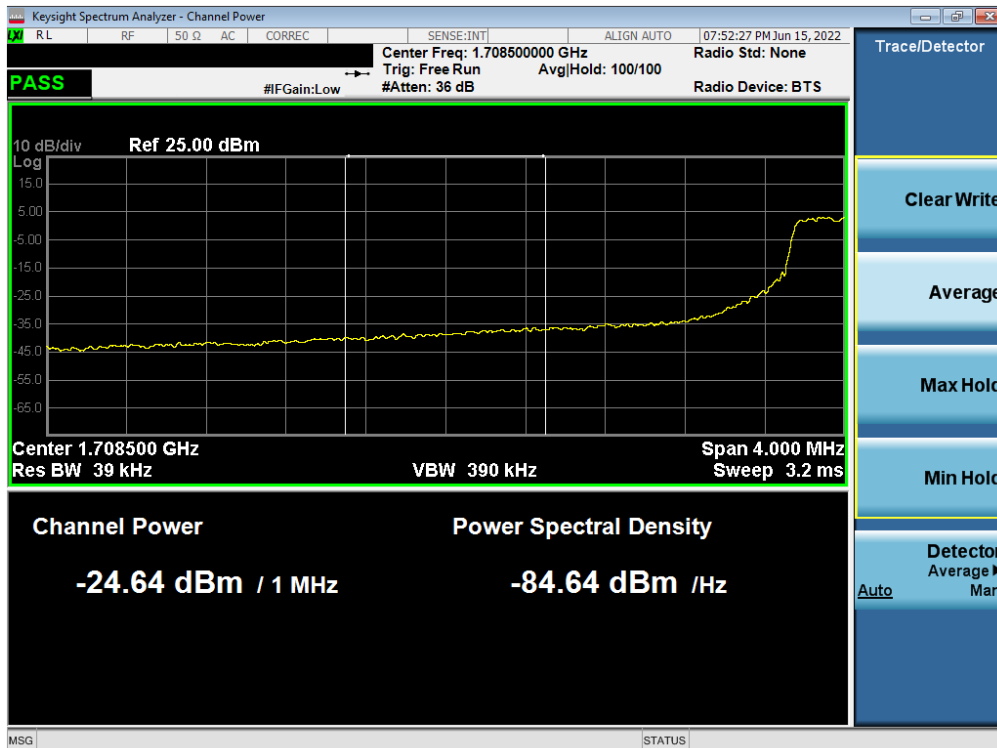


Plot 7-175. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 116 of 198



Plot 7-178. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

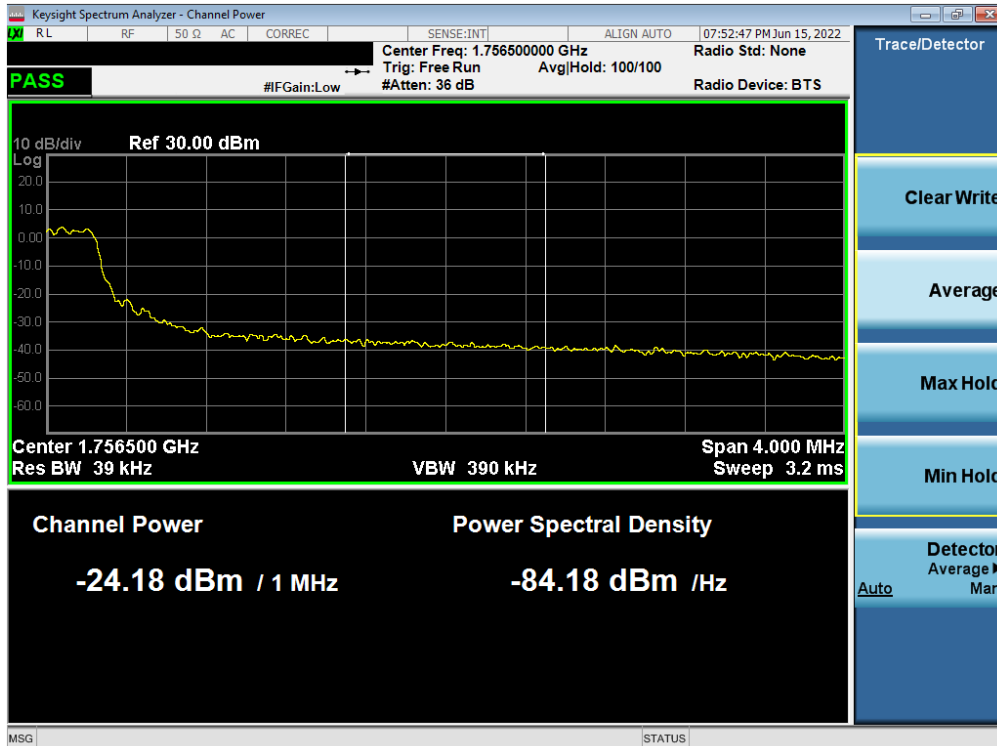


Plot 7-179. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 118 of 198



Plot 7-180. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

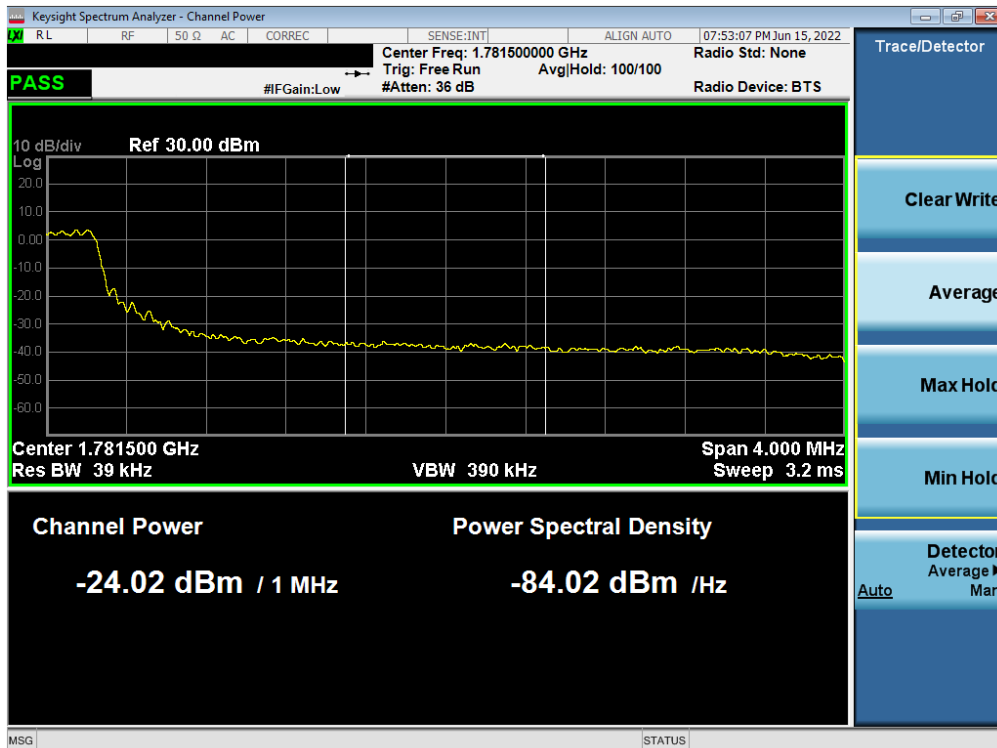


Plot 7-181. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 119 of 198



Plot 7-182. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB Configuration)

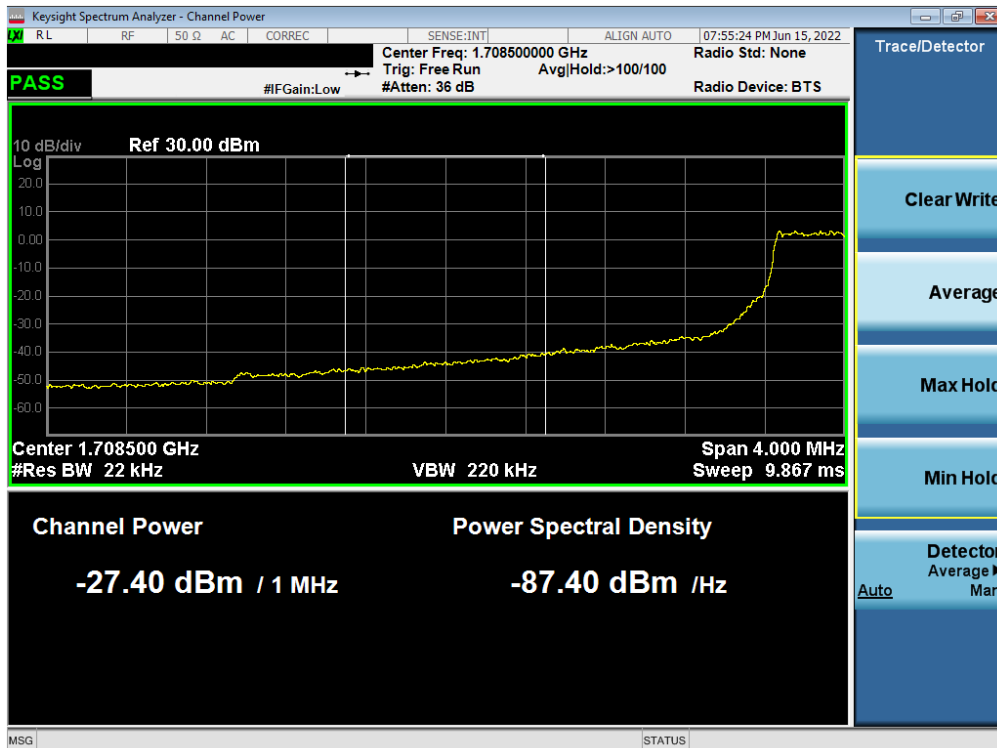


Plot 7-183. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 120 of 198



Plot 7-184. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)

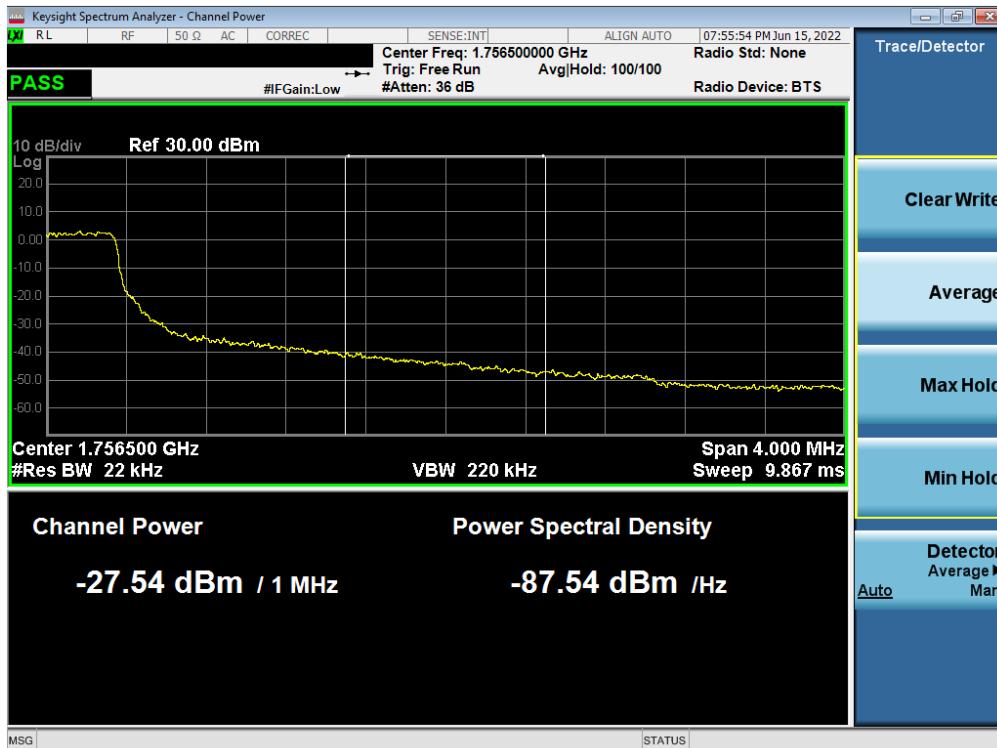


Plot 7-185. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 121 of 198



Plot 7-186. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)

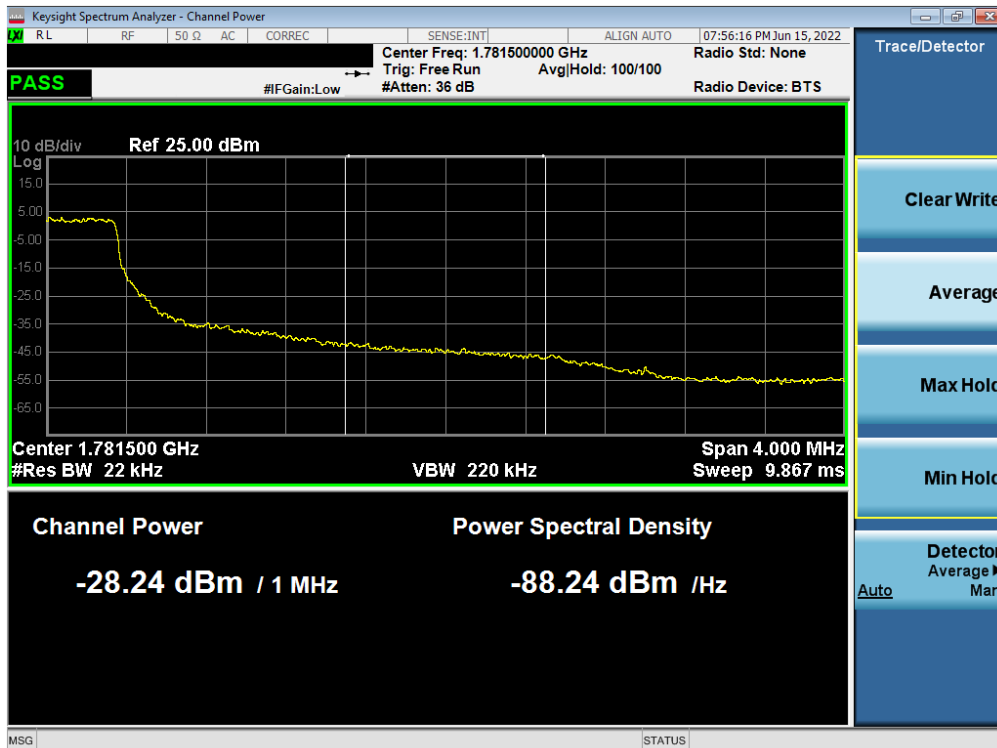


Plot 7-187. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 122 of 198

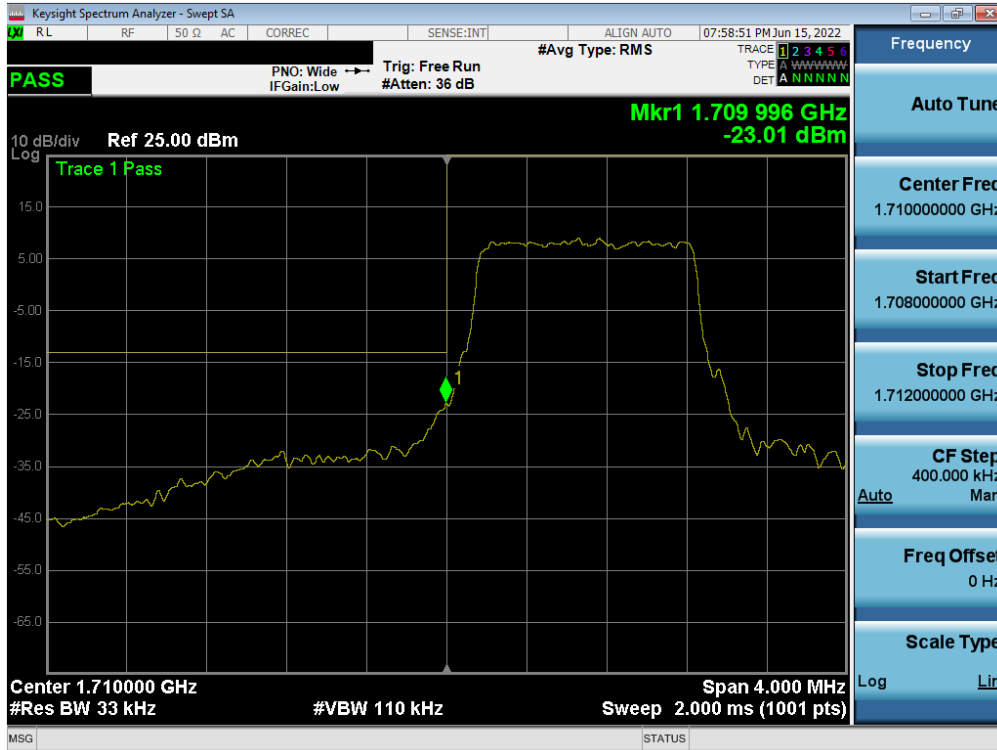


Plot 7-188. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)

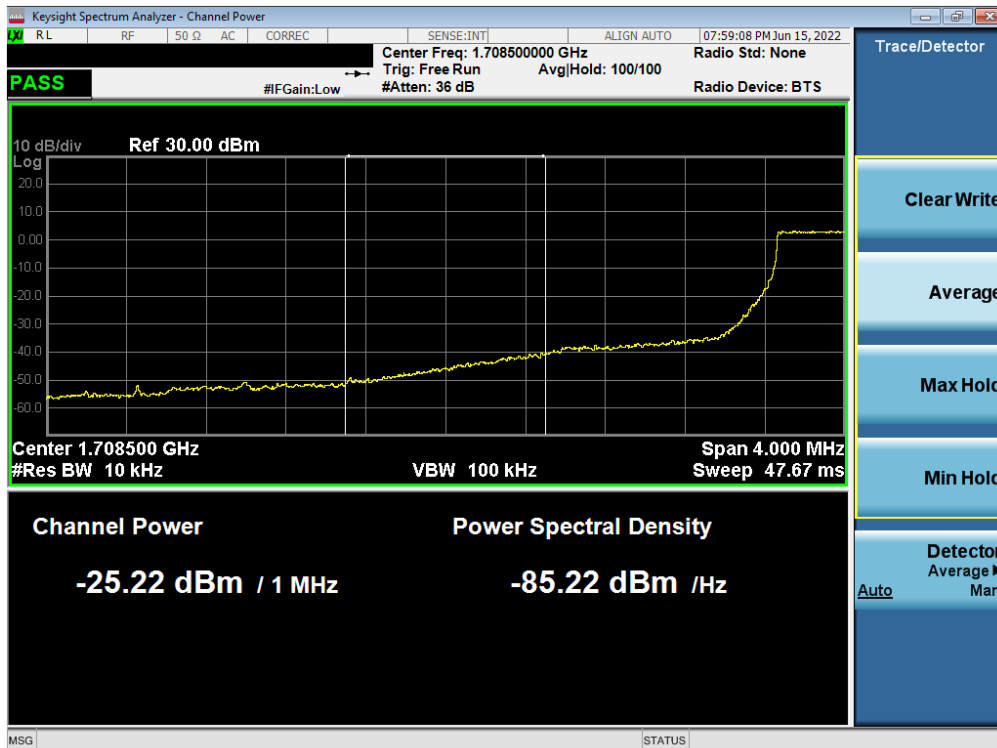


Plot 7-189. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 123 of 198



Plot 7-190. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)

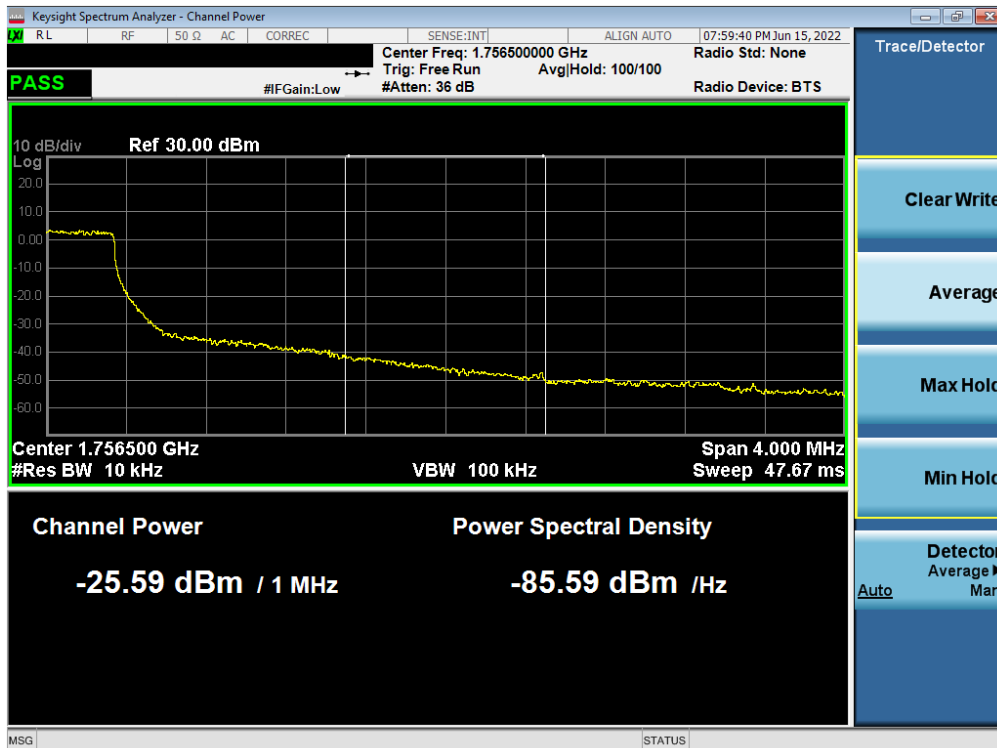


Plot 7-191. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 124 of 198



Plot 7-192. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)

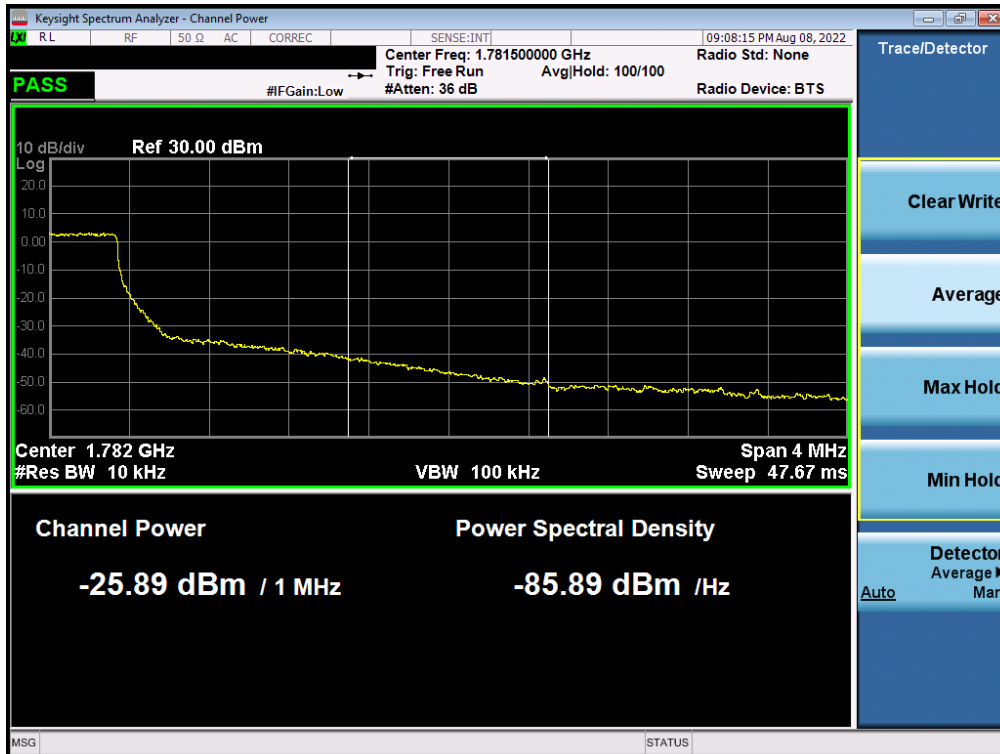


Plot 7-193. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 125 of 198



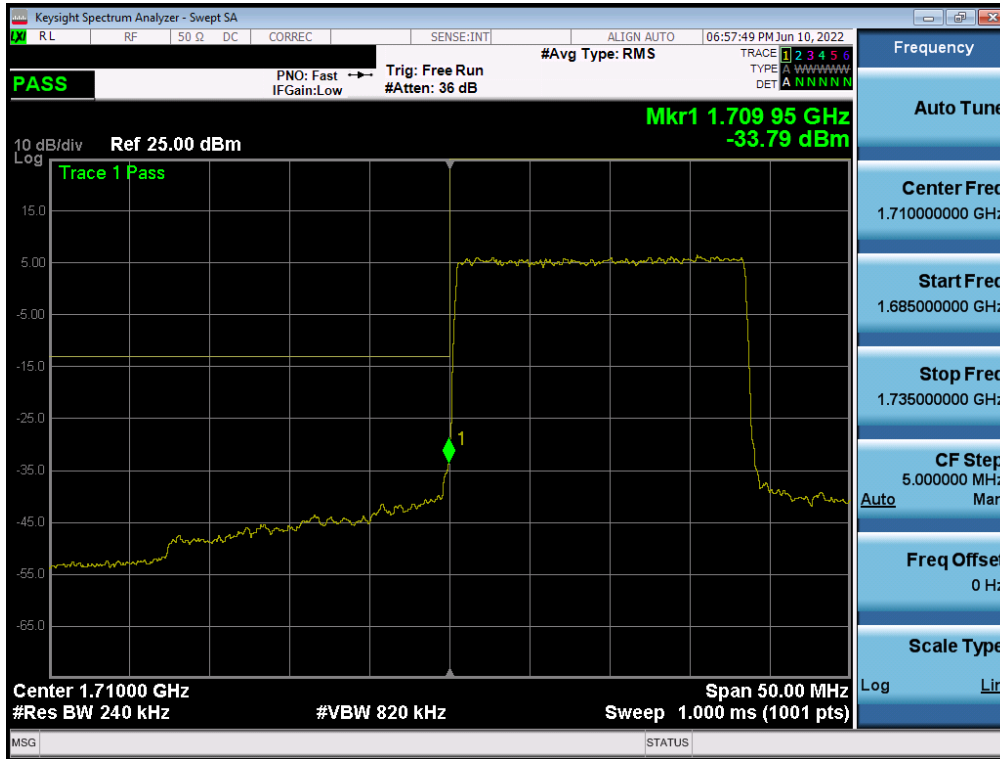
Plot 7-194. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)



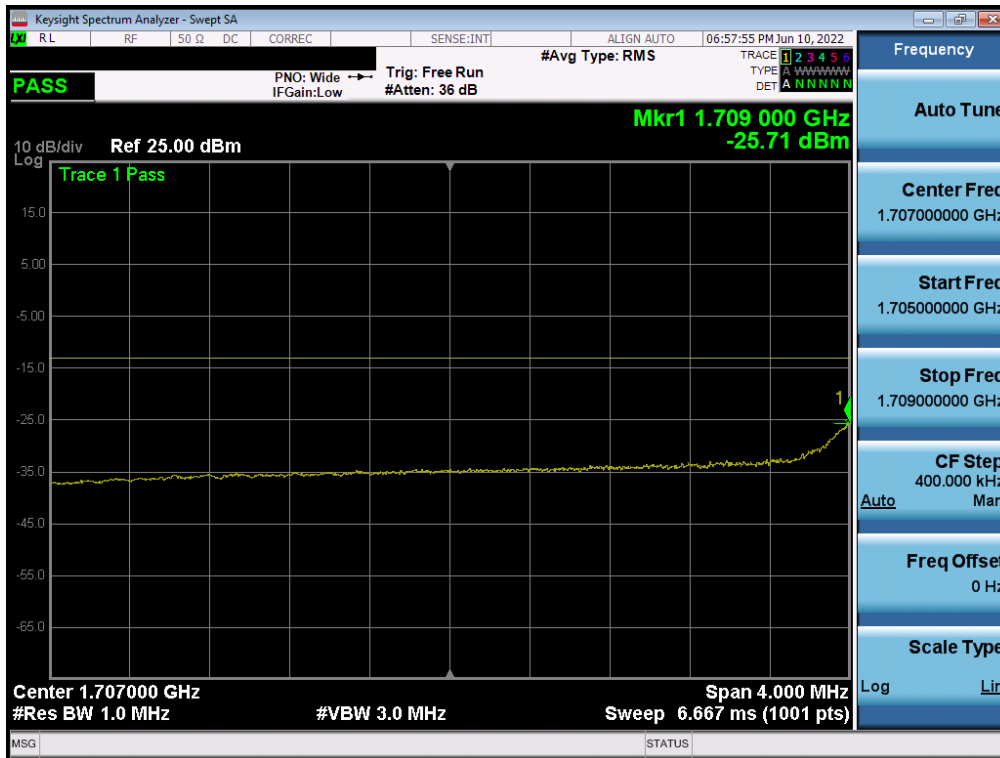
Plot 7-195. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 126 of 198

NR Band n66



Plot 7-196. Lower Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)



Plot 7-197. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 127 of 198

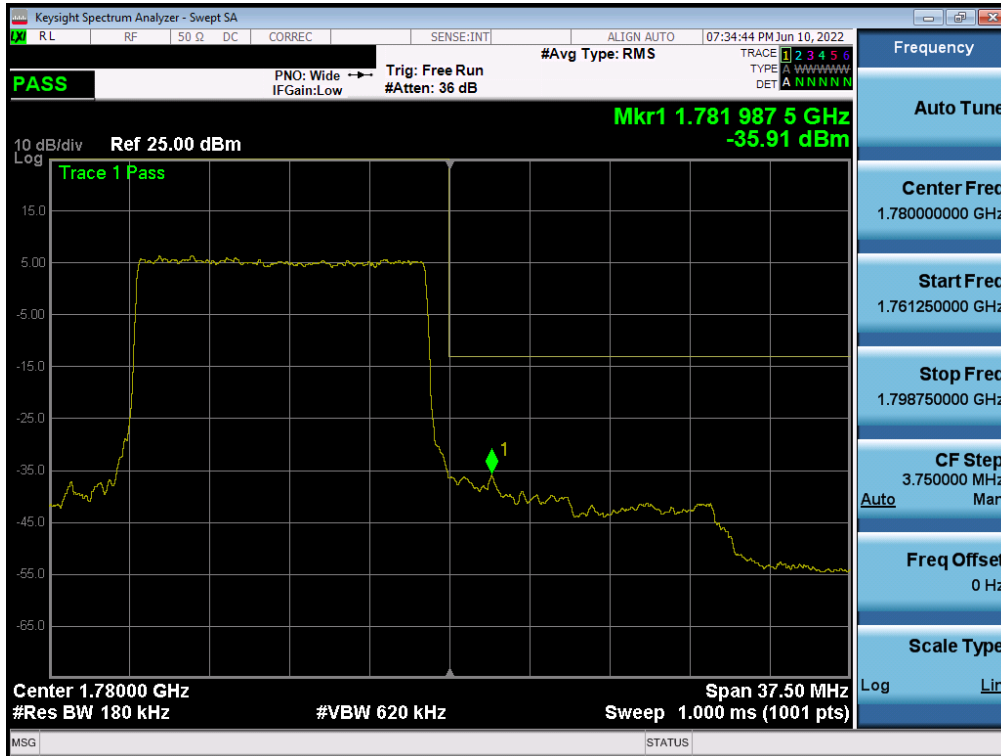


Plot 7-198. Upper Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

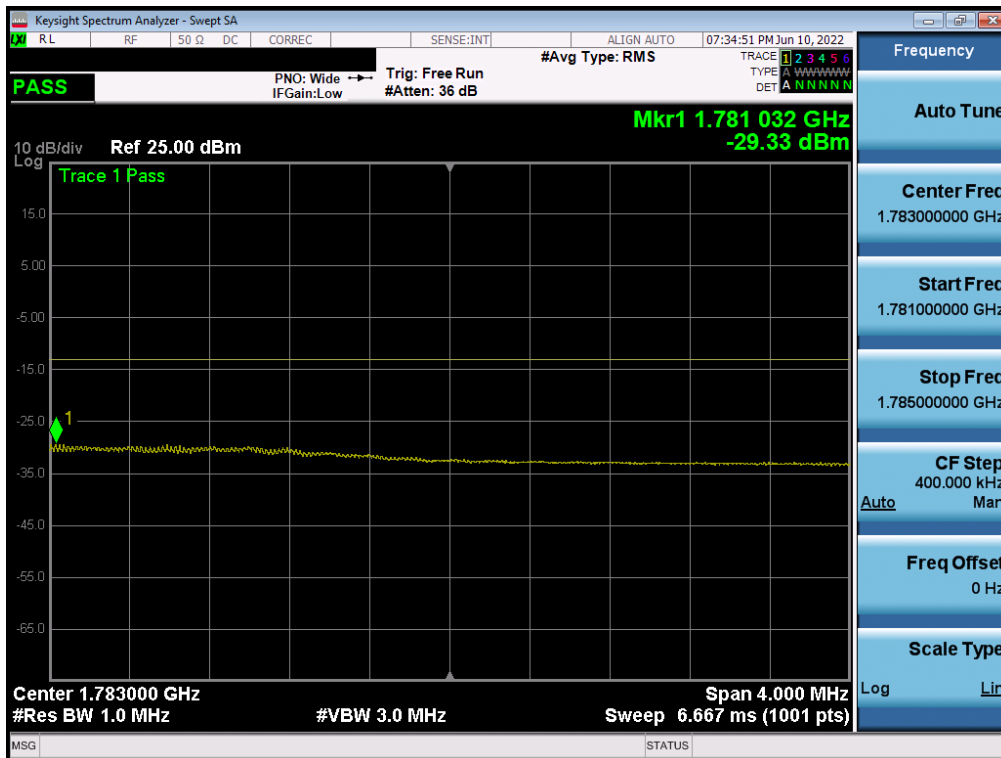


Plot 7-199. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 128 of 198

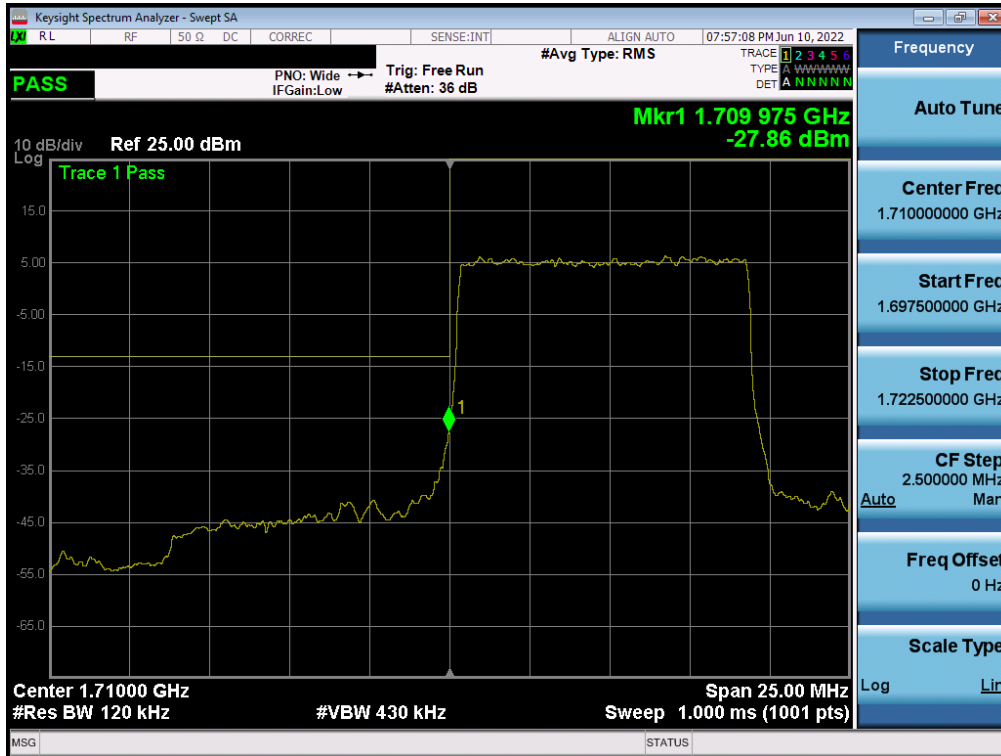


Plot 7-202. Upper Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

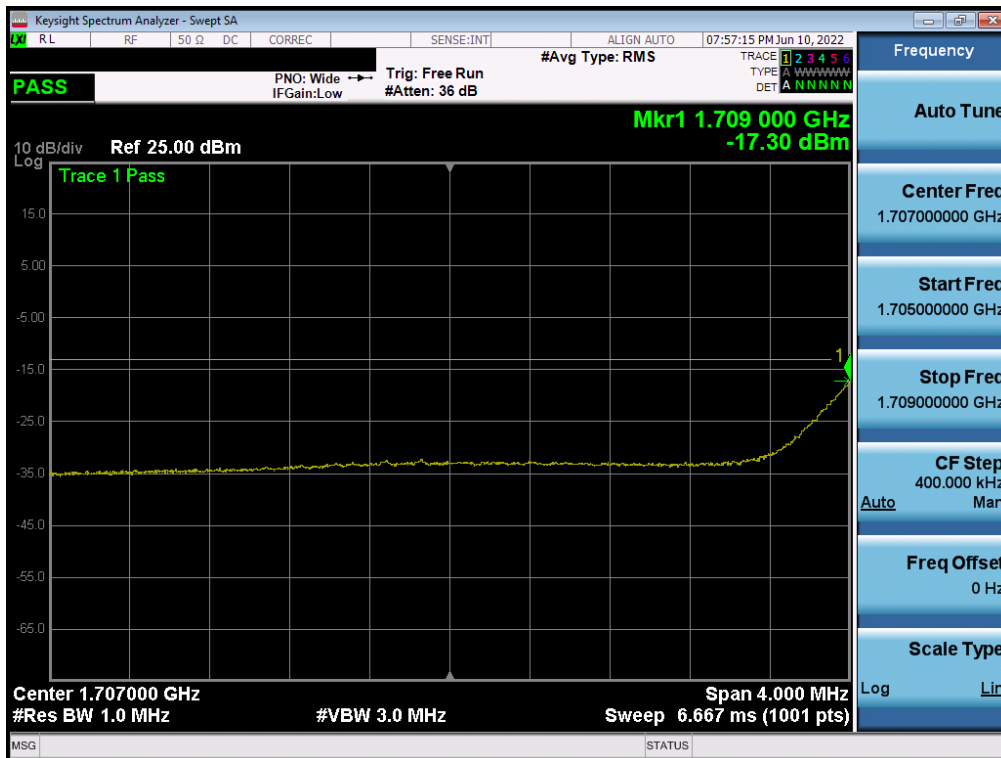


Plot 7-203. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-204. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

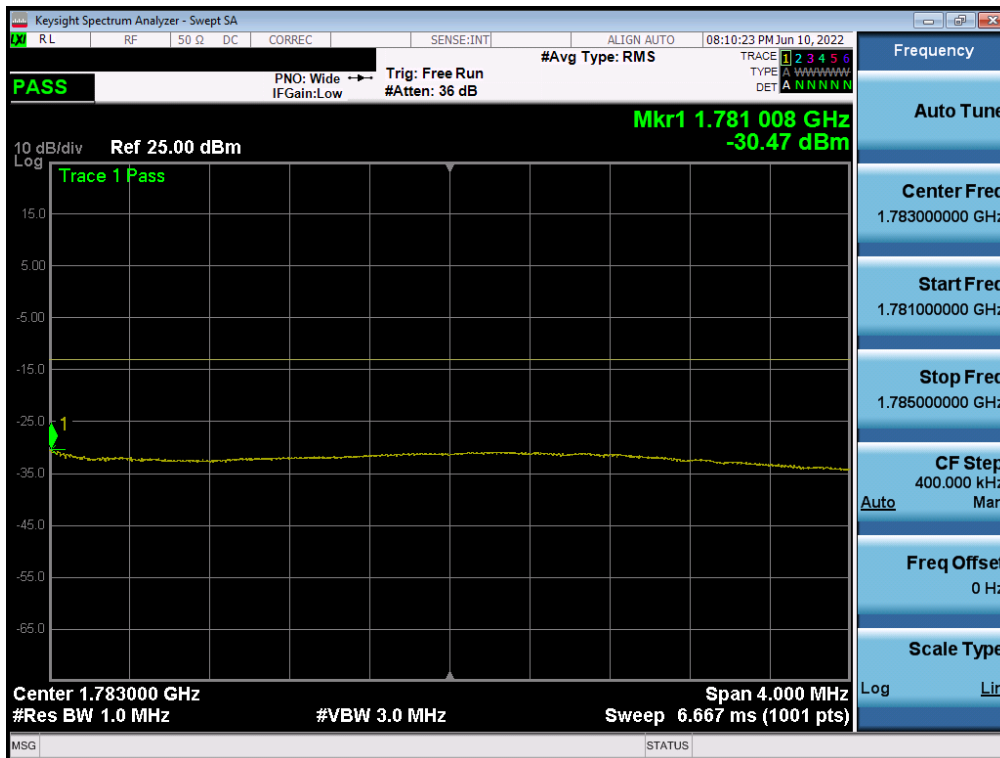


Plot 7-205. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 131 of 198

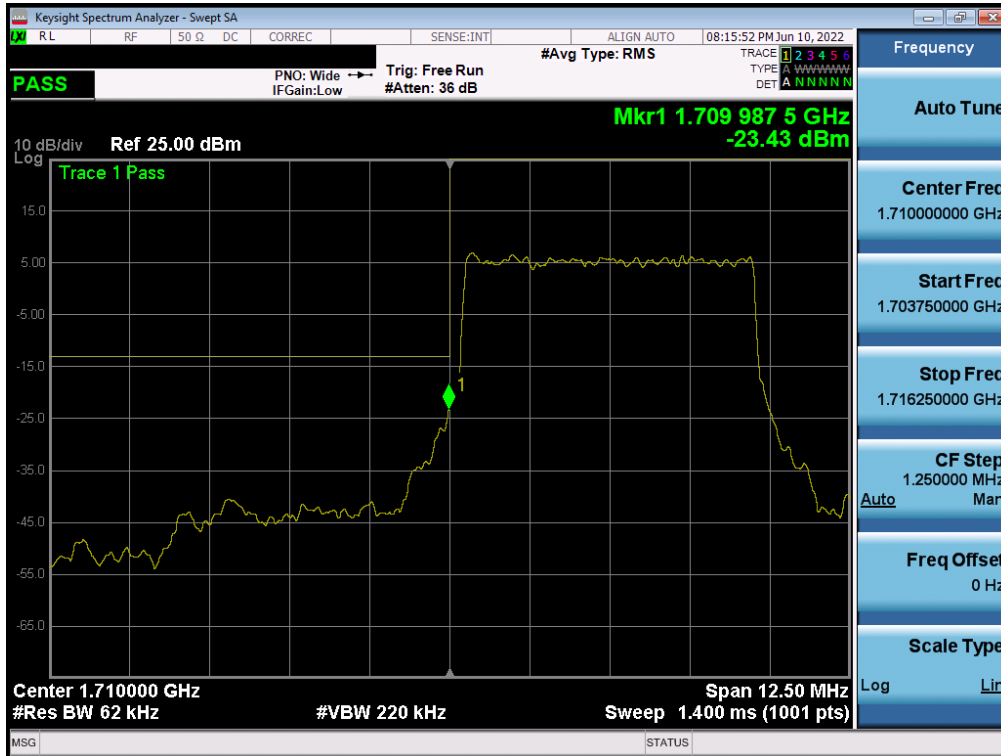


Plot 7-206. Upper Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

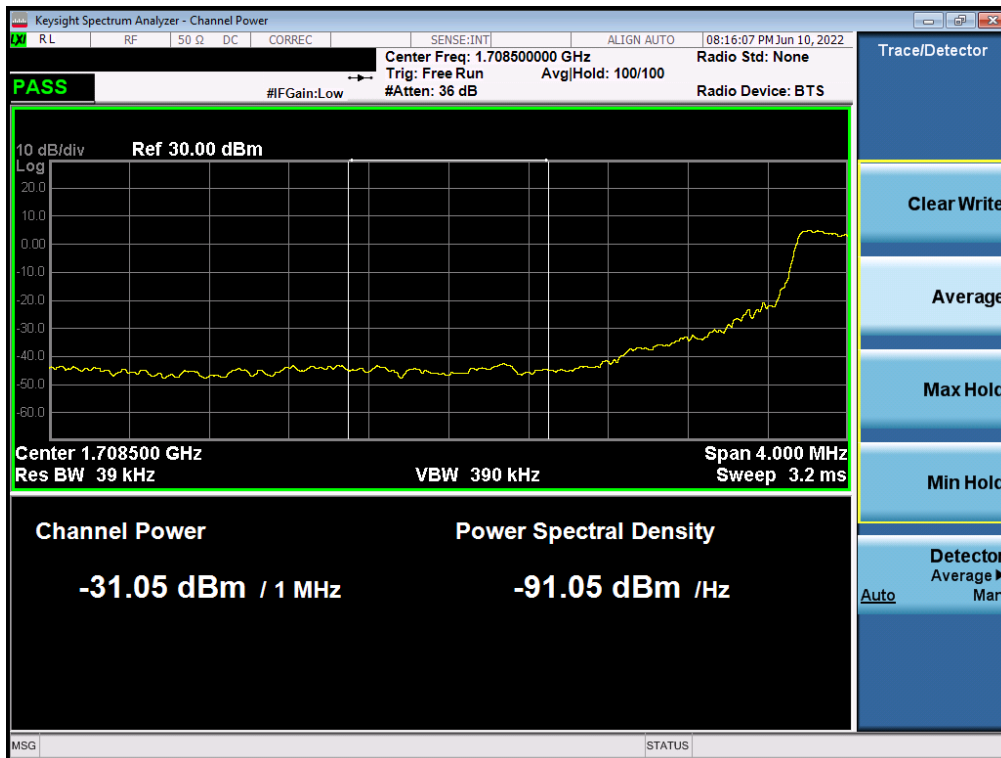


Plot 7-207. Upper Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-208. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

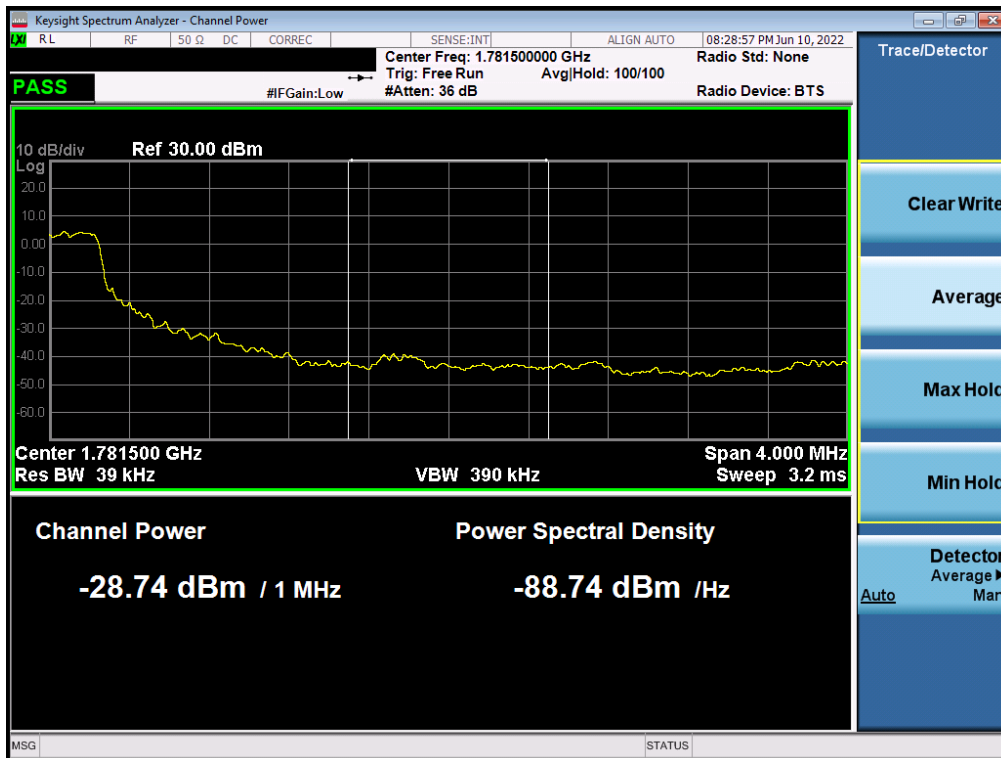


Plot 7-209. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 133 of 198



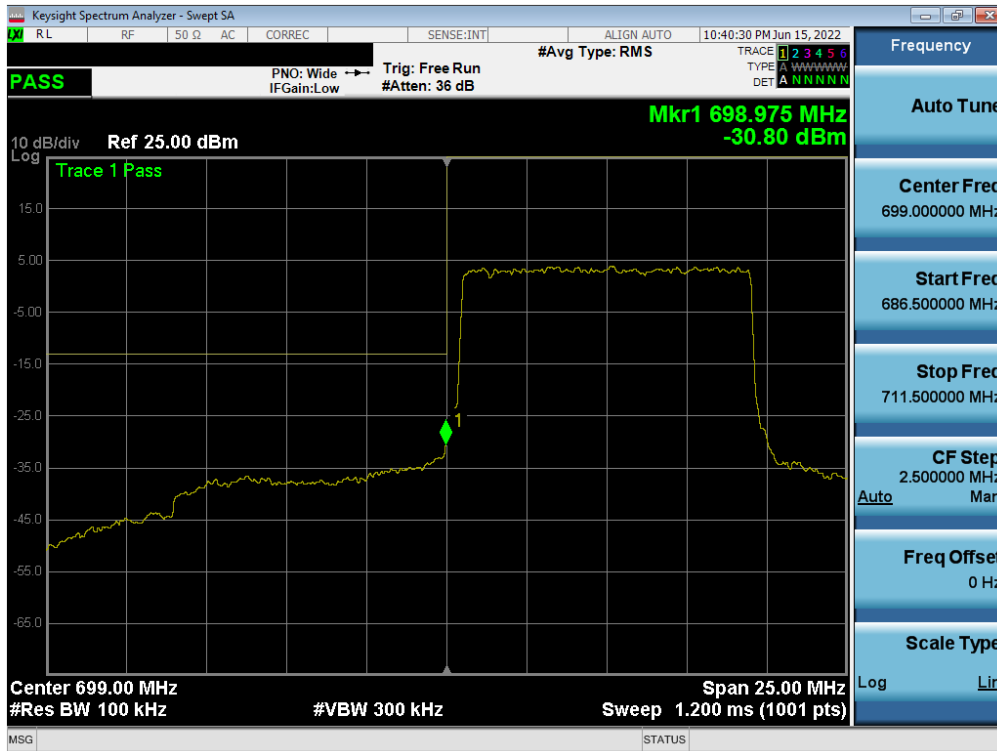
Plot 7-210. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)



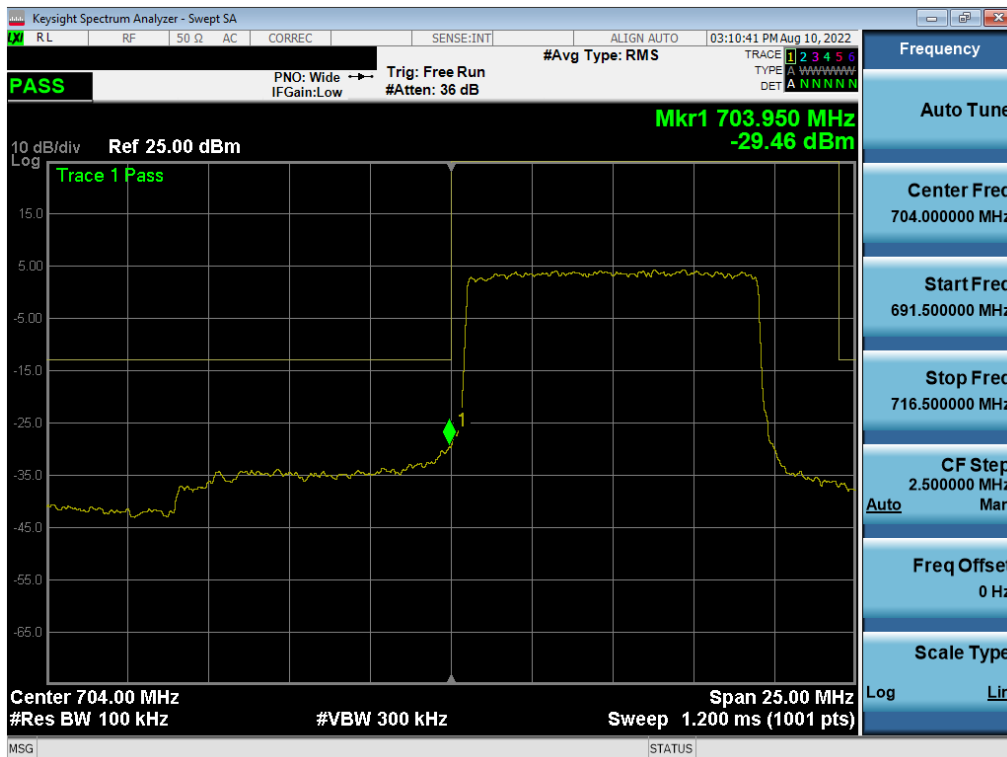
Plot 7-211. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12 – Sub ANT



Plot 7-212. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration – Sub ANT)

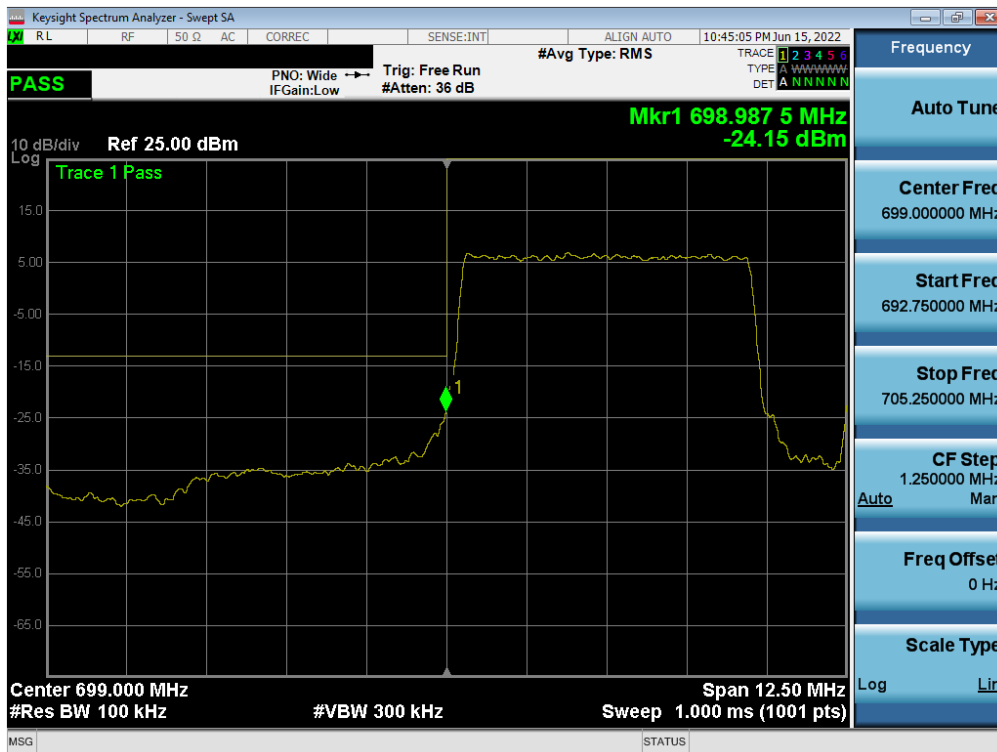


Plot 7-213. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 135 of 198

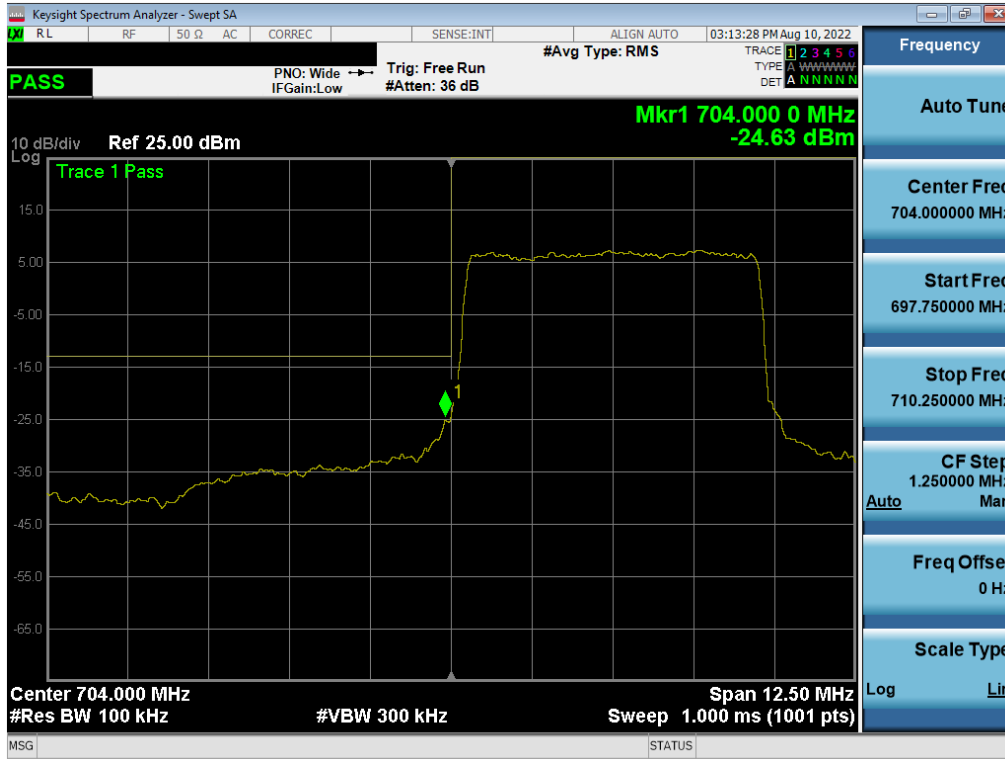


Plot 7-214. Upper Band Edge Plot (LTE Band 12/17 - 10MHz QPSK – Full RB Configuration – Sub ANT)



Plot 7-215. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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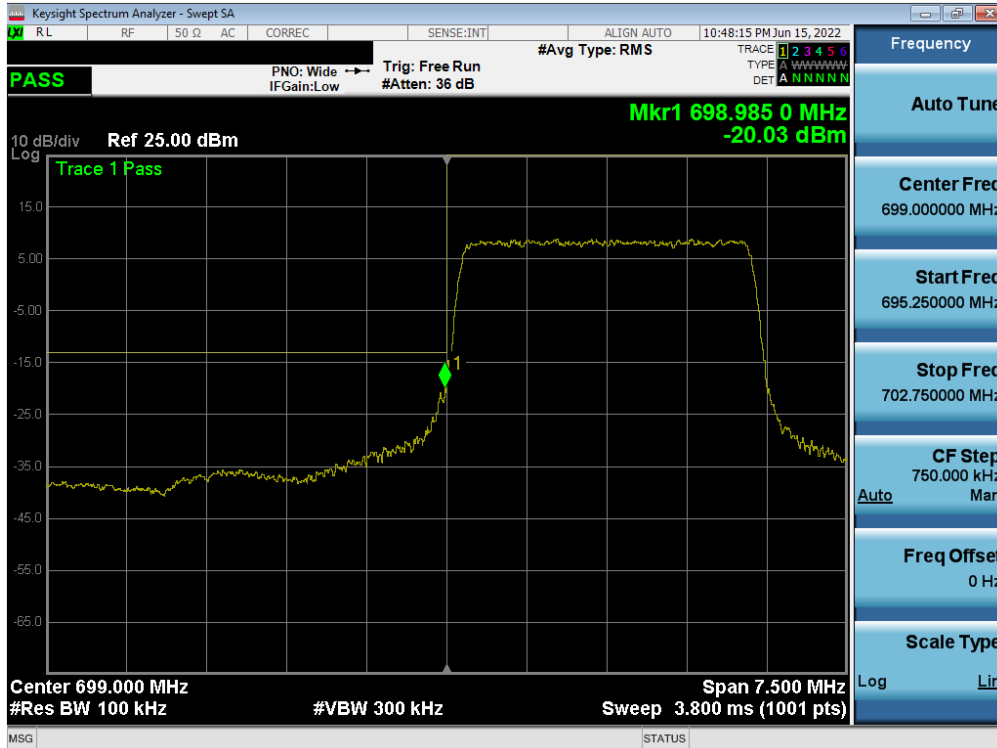


Plot 7-216. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB Configuration – Sub ANT)

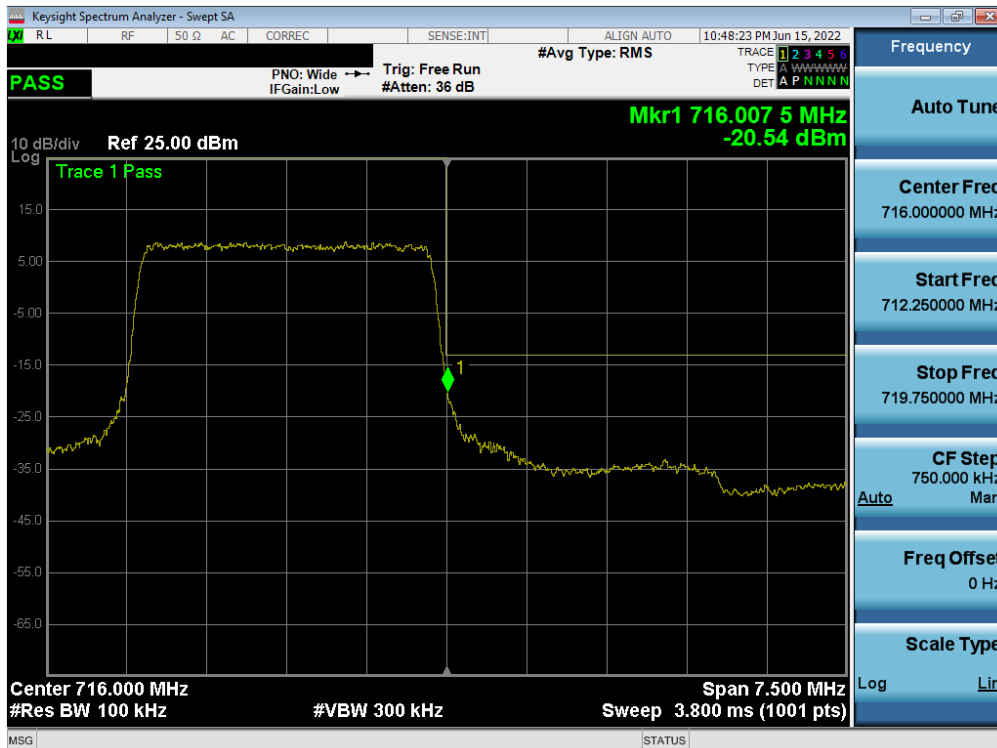


Plot 7-217. Upper Band Edge Plot (LTE Band 12/17 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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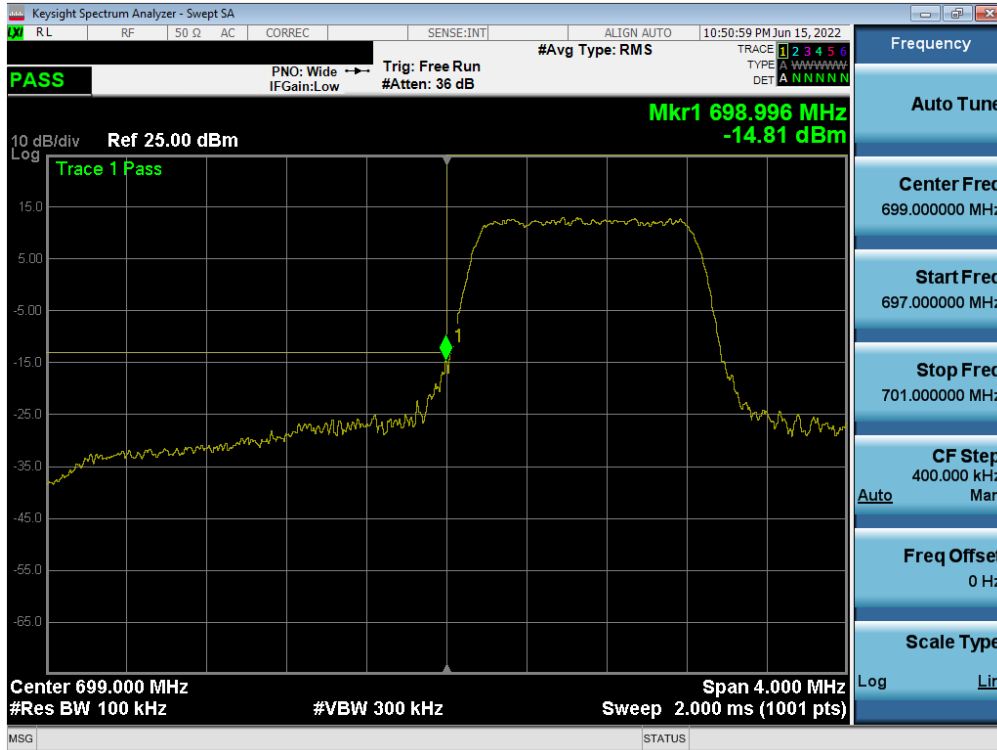


Plot 7-218. Lower Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Sub ANT)

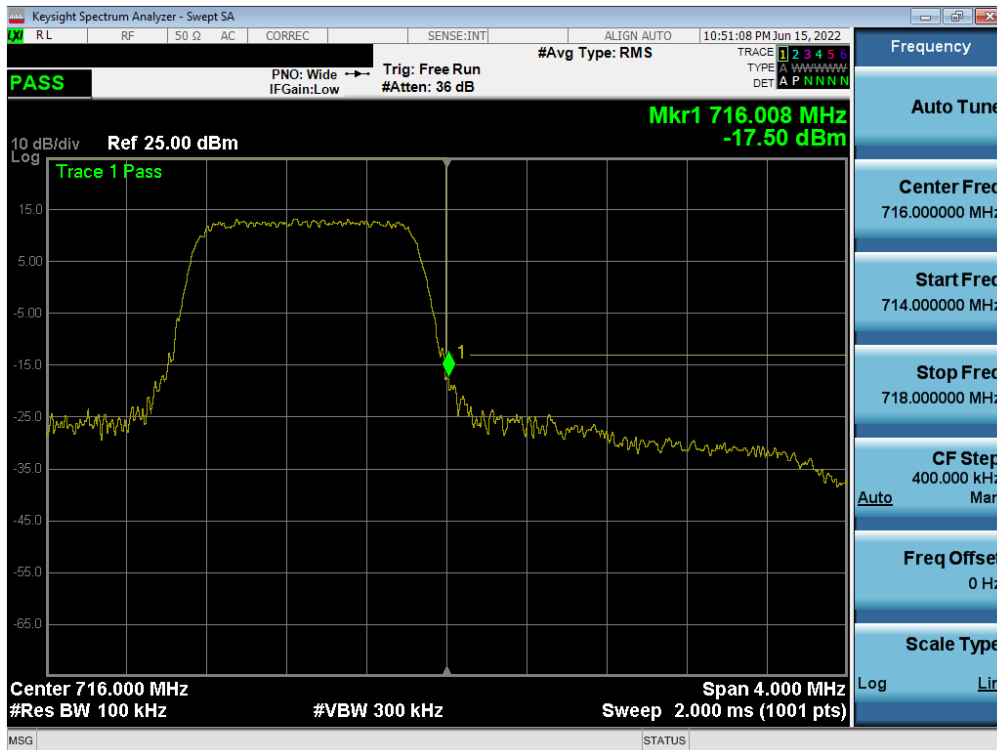


Plot 7-219. Upper Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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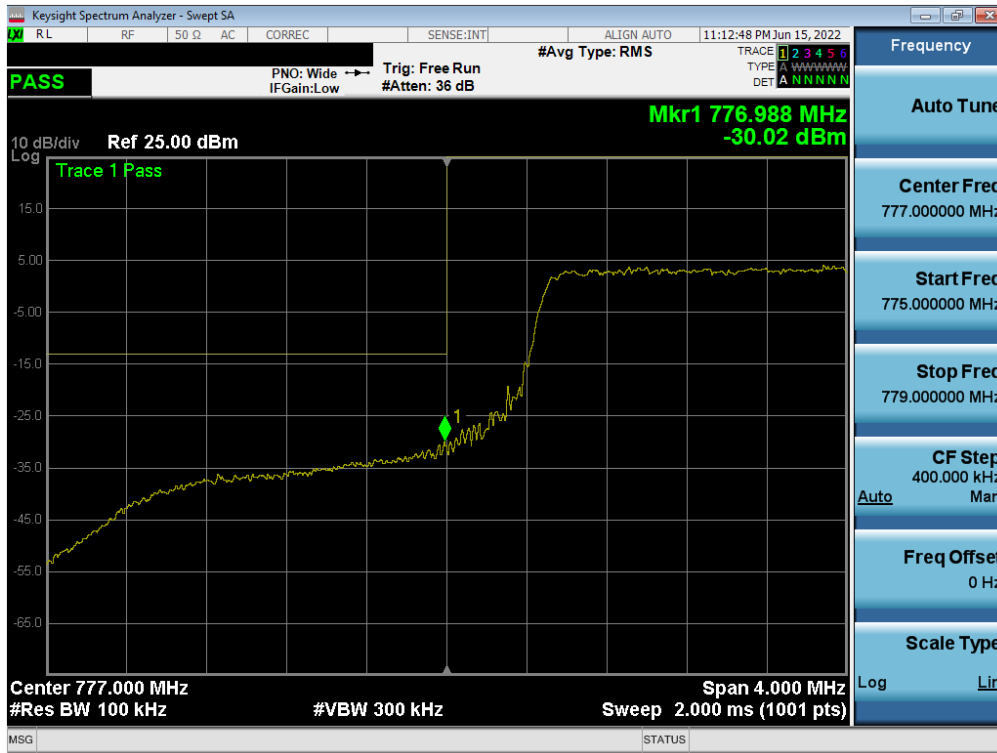
Plot 7-220. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Sub ANT)



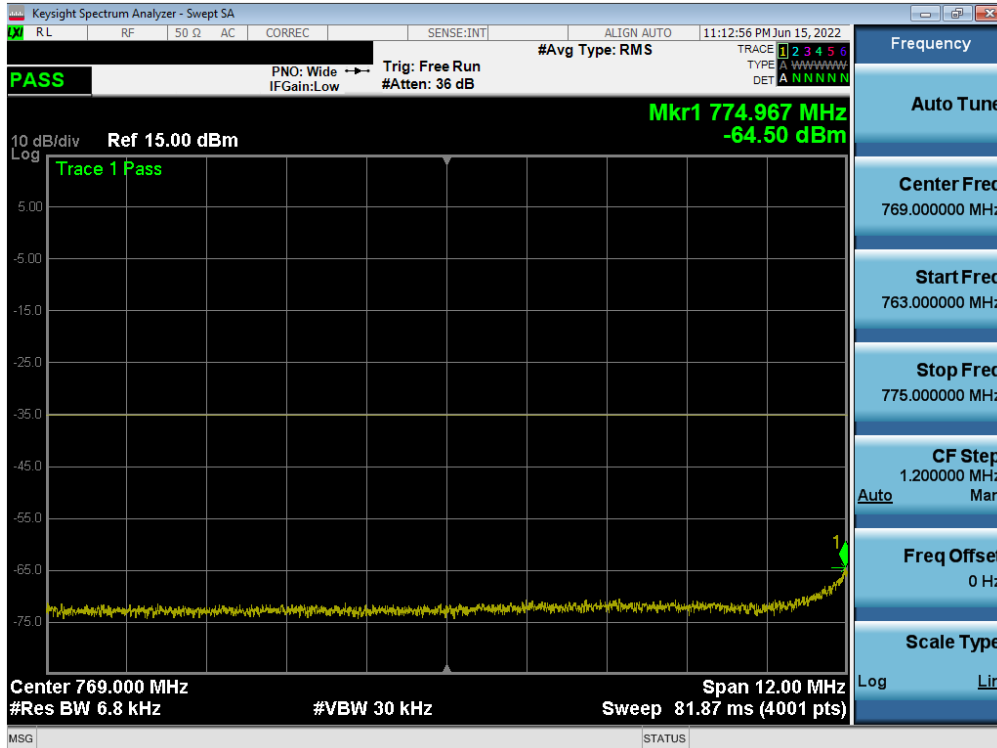
Plot 7-221. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – Sub ANT

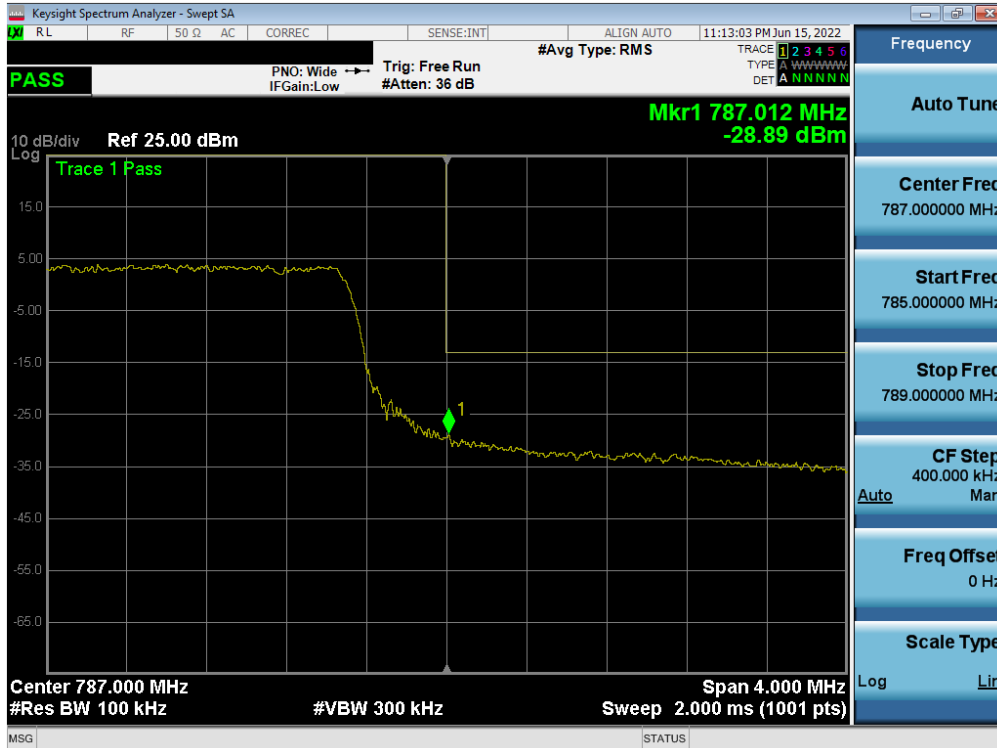


Plot 7-222. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

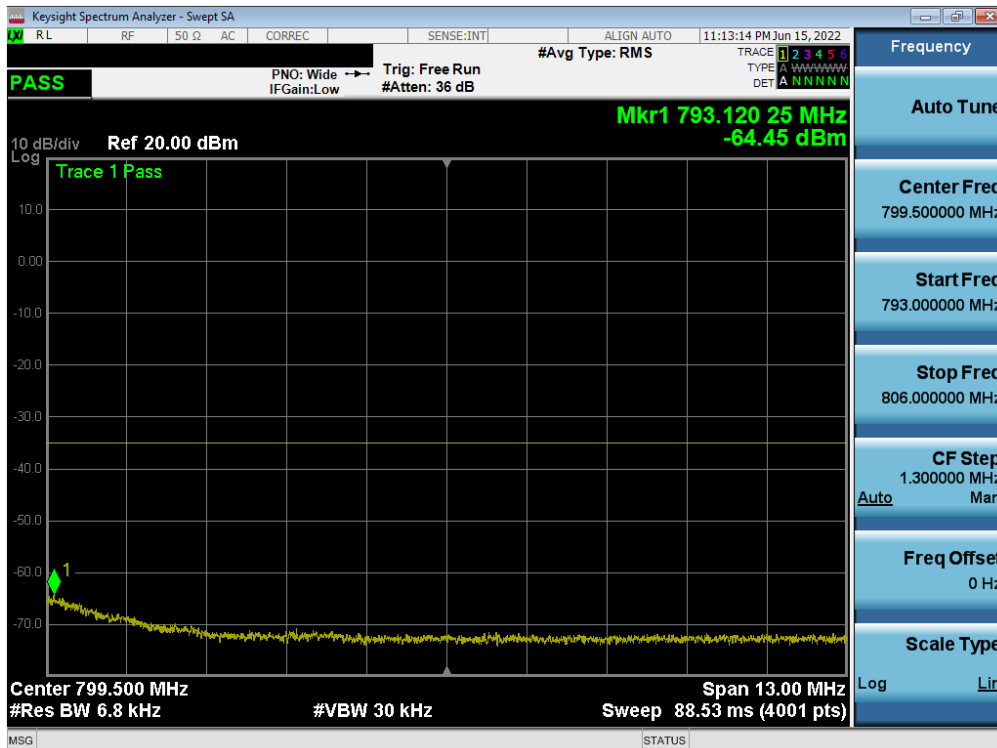


Plot 7-223. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 140 of 198

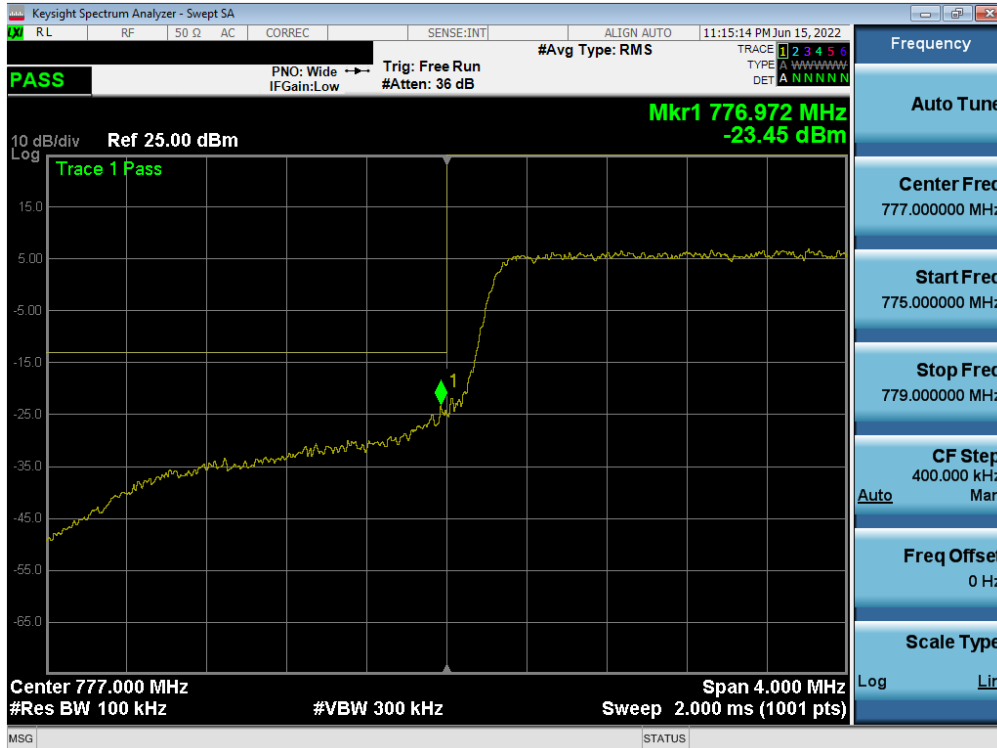


Plot 7-224. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

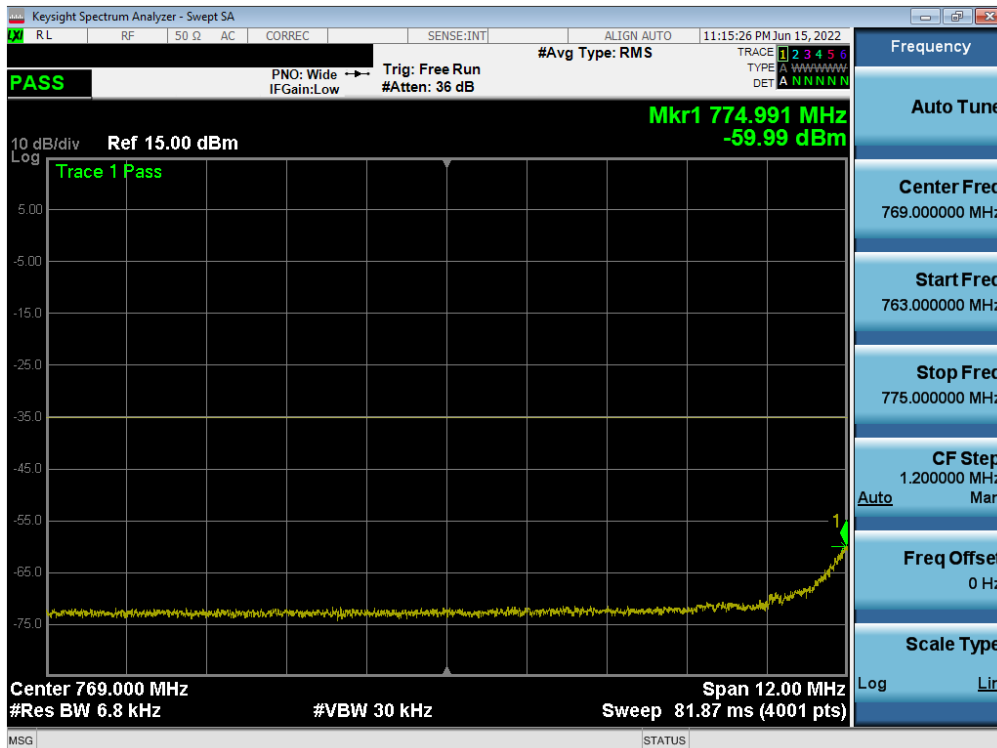


Plot 7-225. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 141 of 198

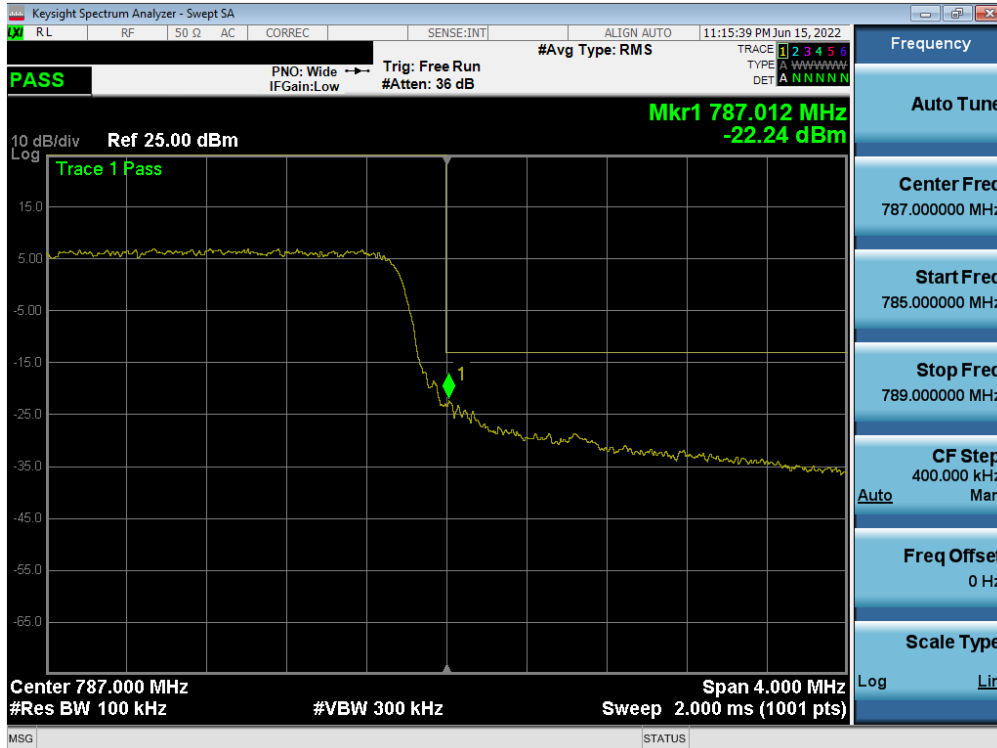


Plot 7-226. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)

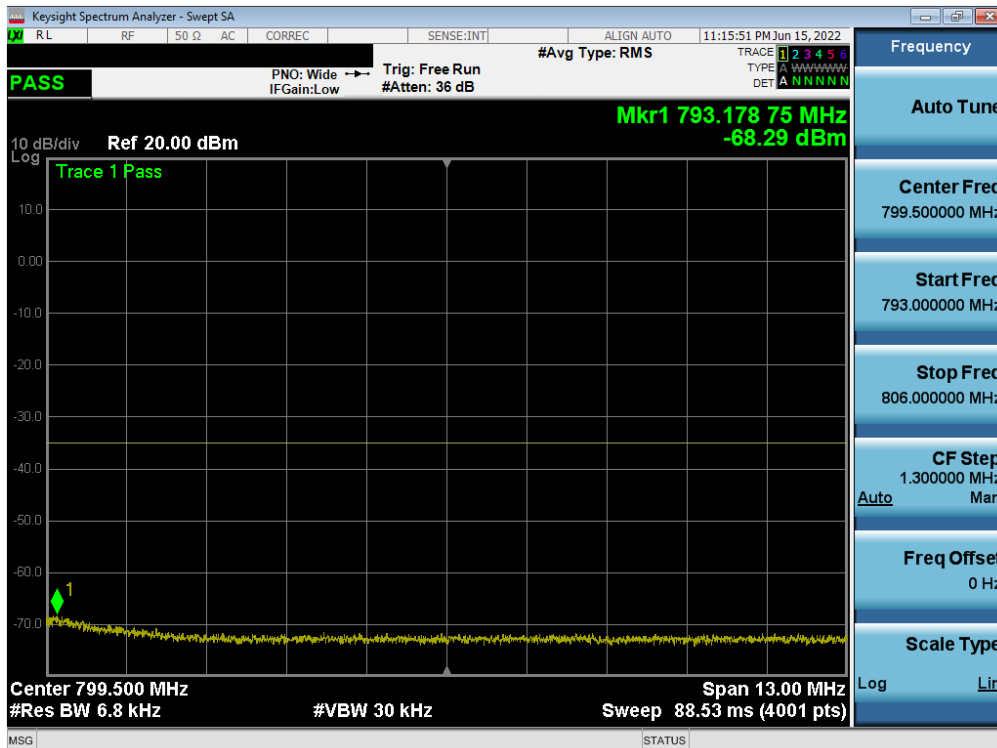


Plot 7-227. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-228. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)



Plot 7-229. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

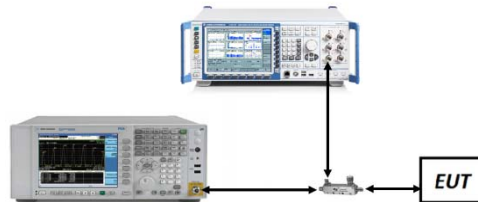


Figure 7-5. Test Instrument & Measurement Setup

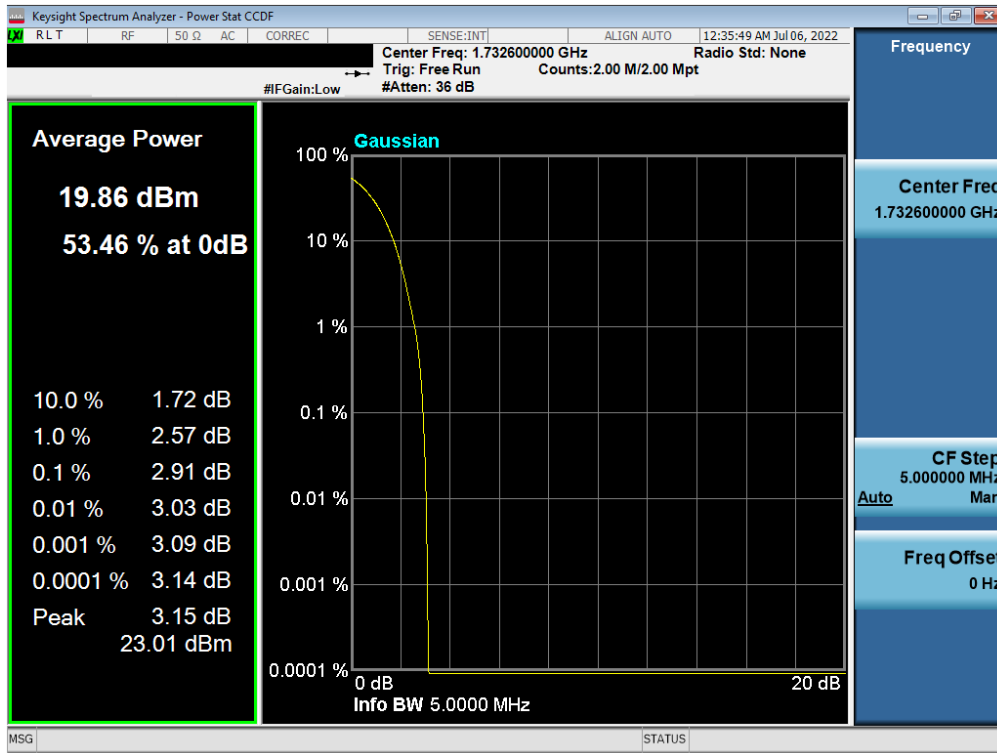
Test Notes

None.

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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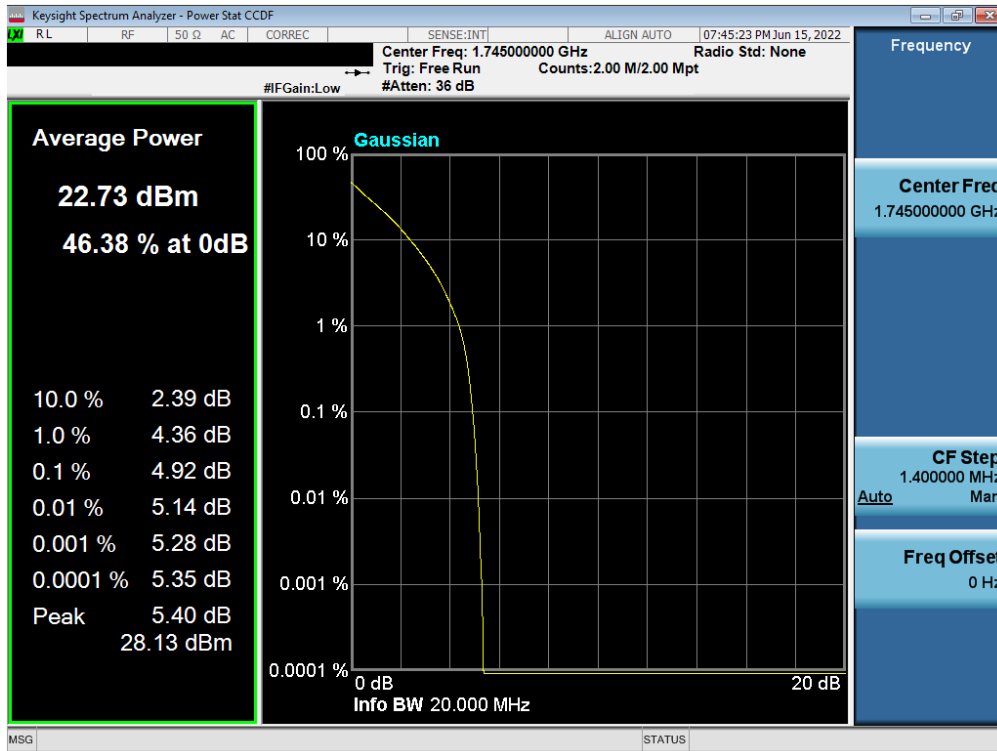
WCDMA AWS



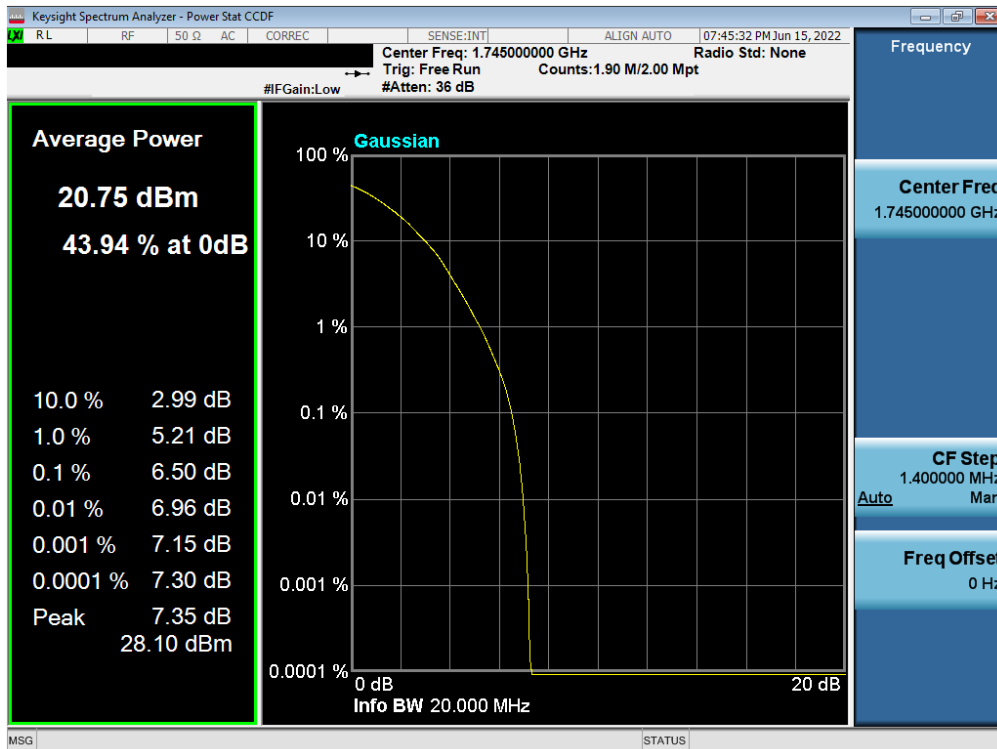
Plot 7-230. PAR Plot (WCDMA, Ch. 1413)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4

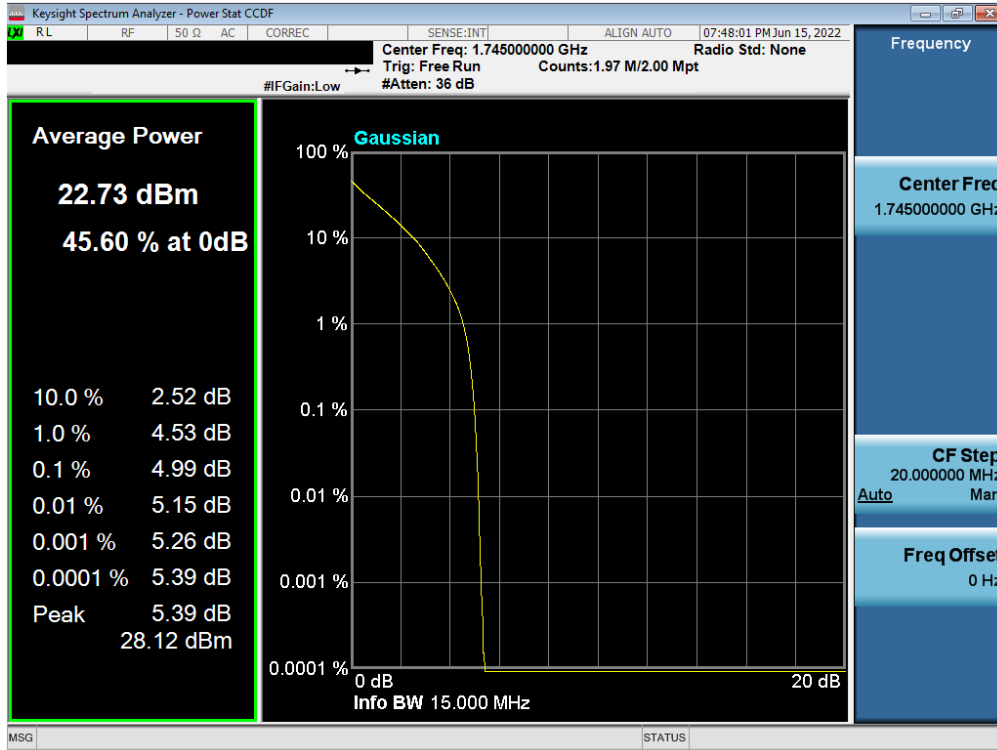


Plot 7-231. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB Configuration)

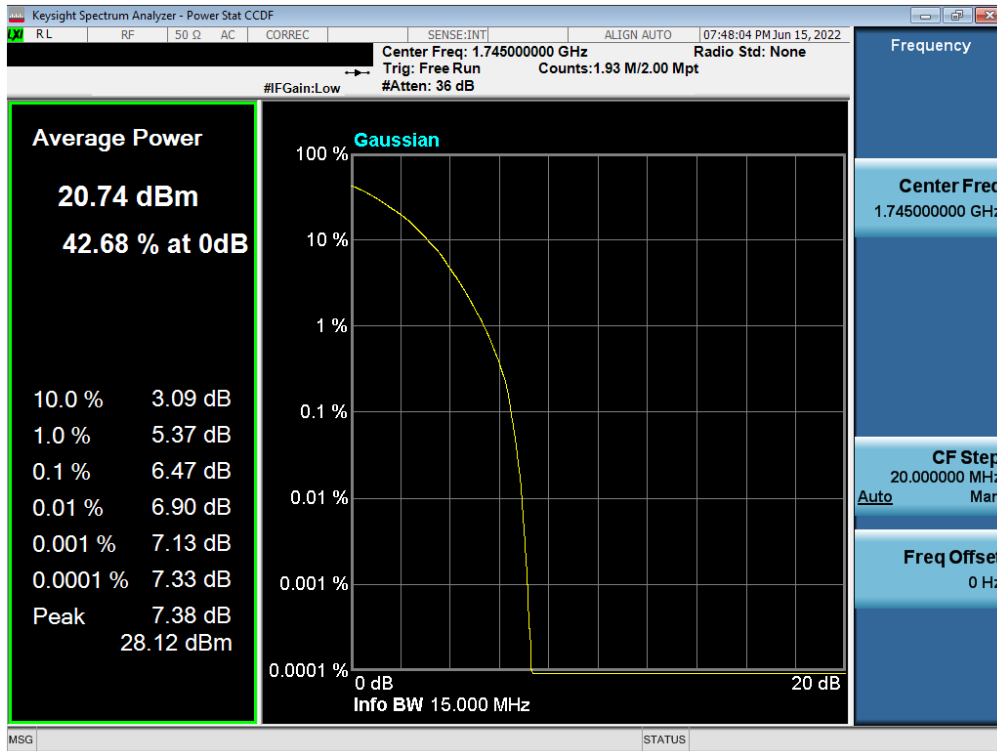


Plot 7-232. PAR Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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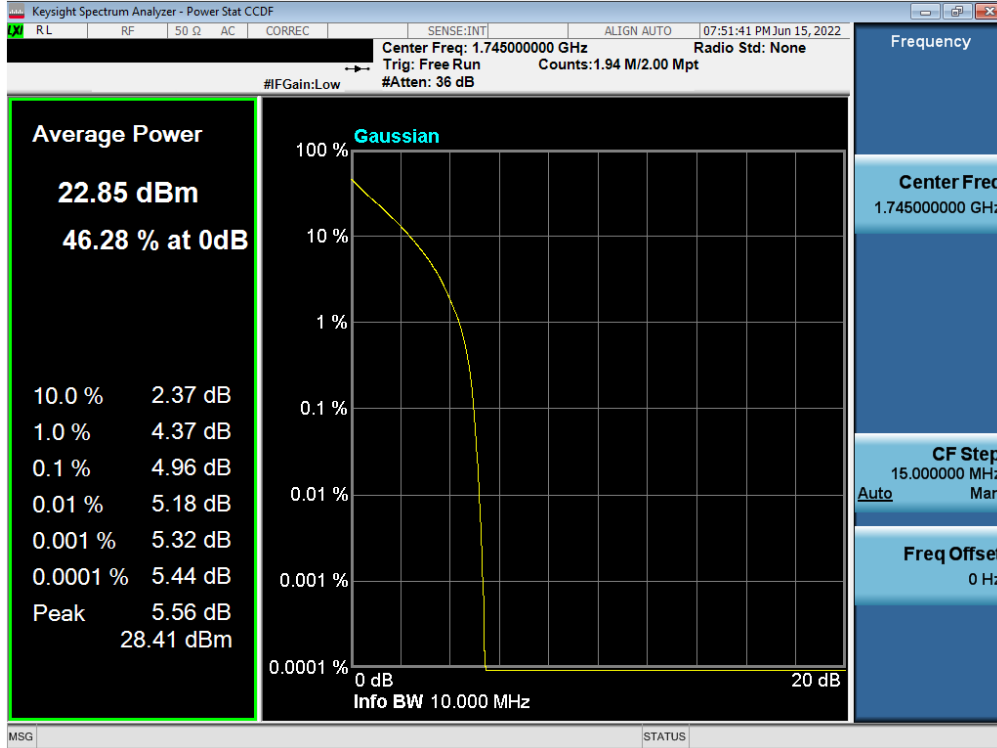


Plot 7-233. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB Configuration)

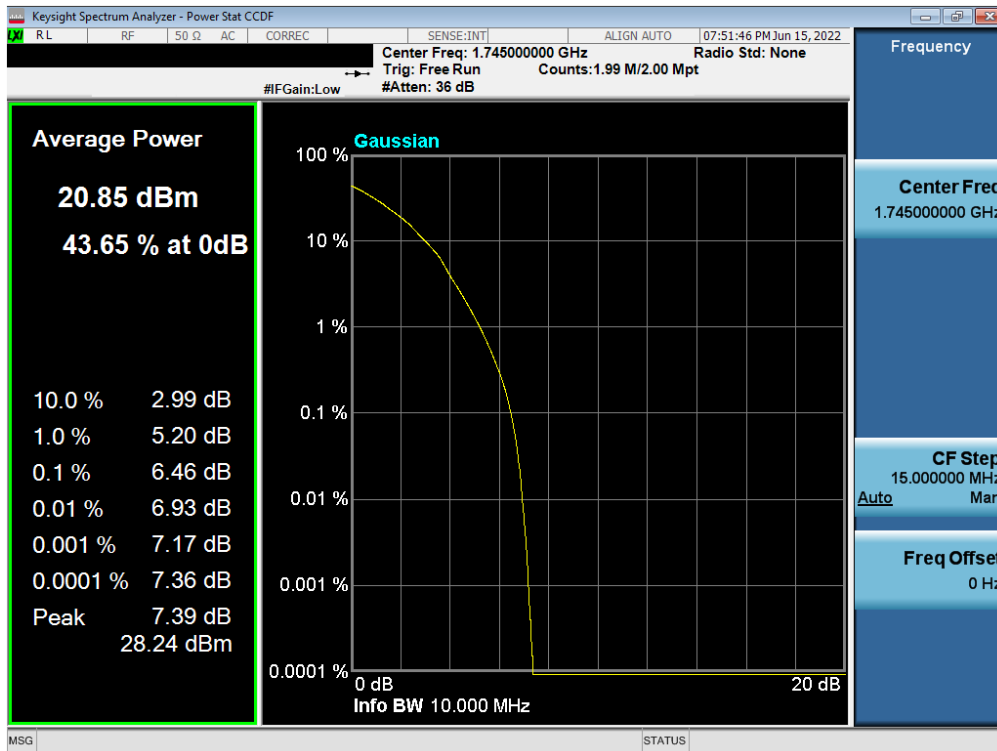


Plot 7-234. PAR Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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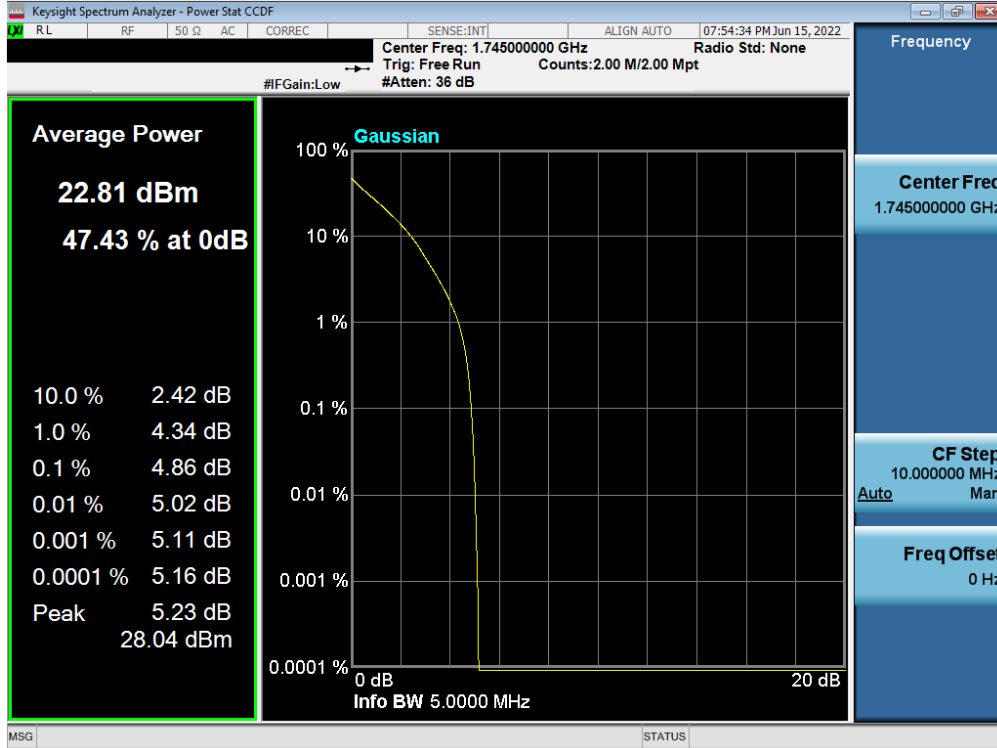


Plot 7-235. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB Configuration)

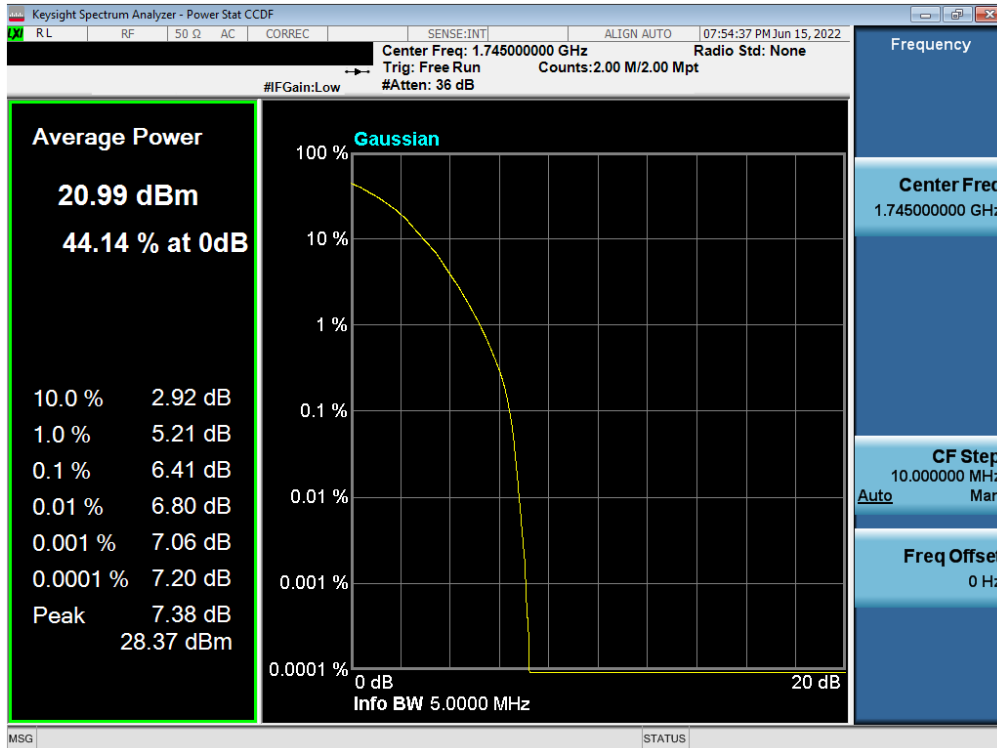


Plot 7-236. PAR Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 148 of 198

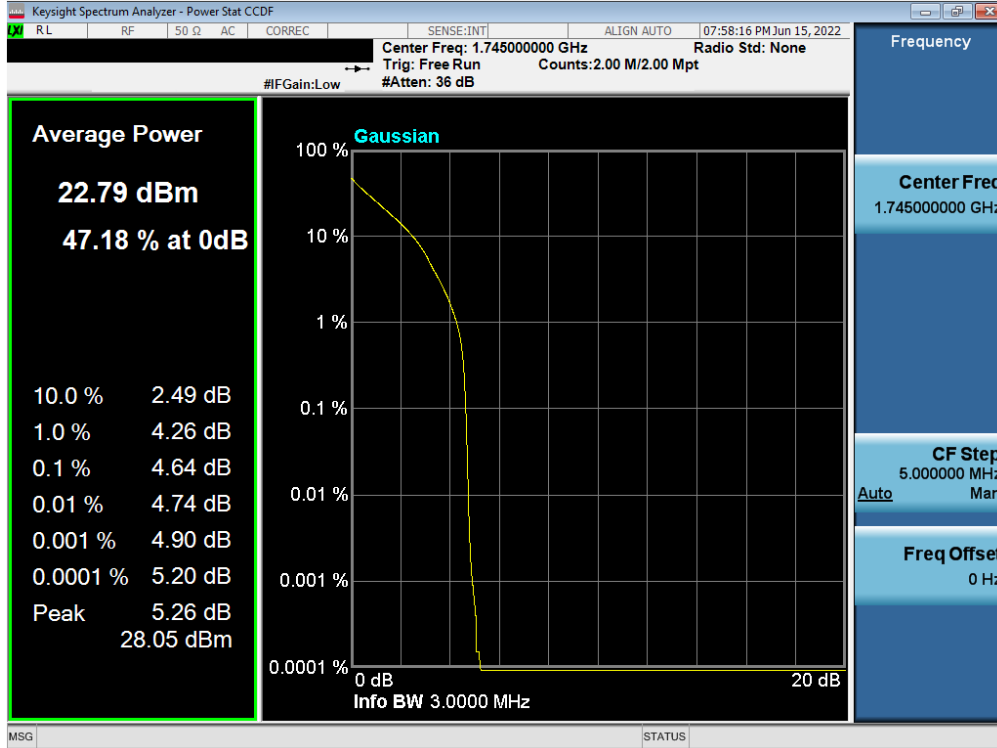


Plot 7-237. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB Configuration)

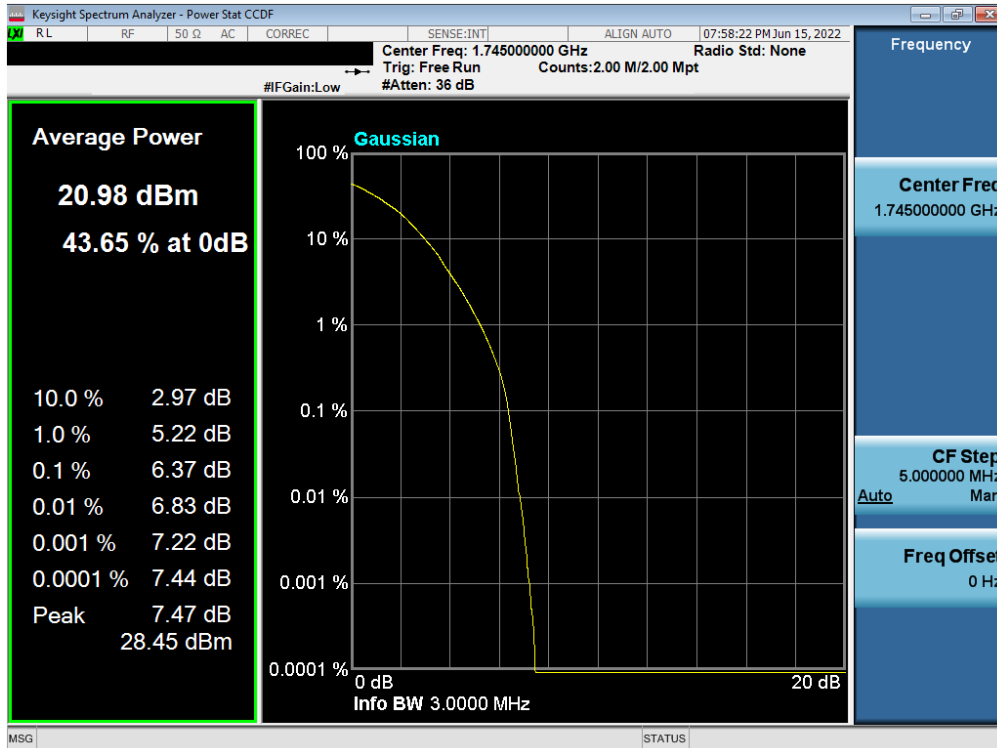


Plot 7-238. PAR Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 149 of 198

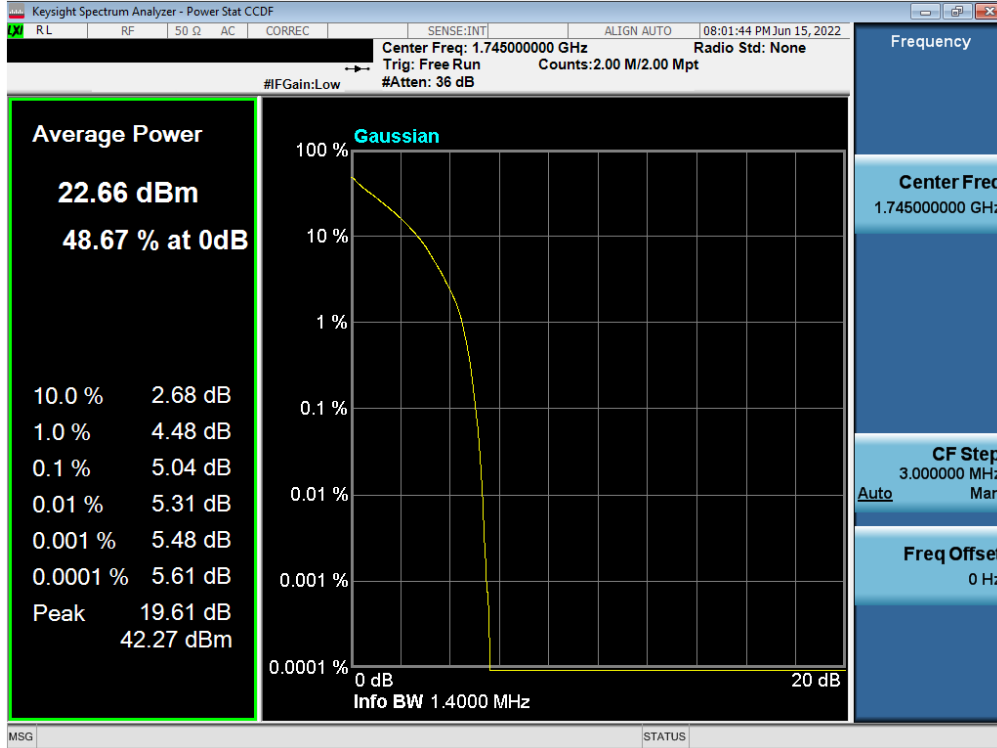


Plot 7-239. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB Configuration)

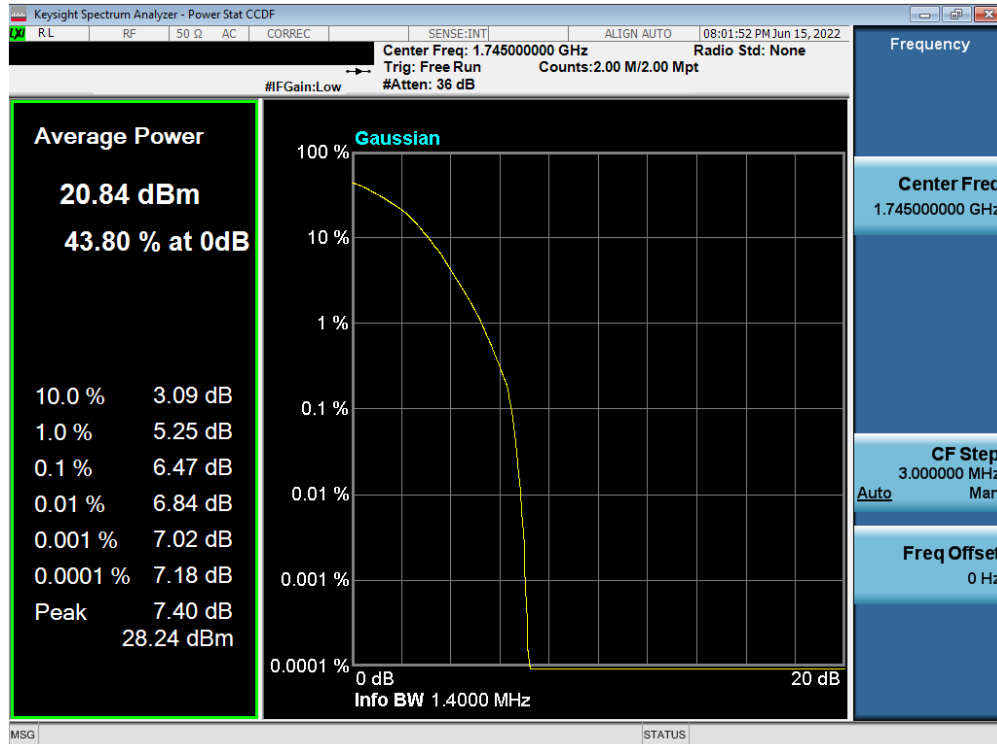


Plot 7-240. PAR Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 150 of 198



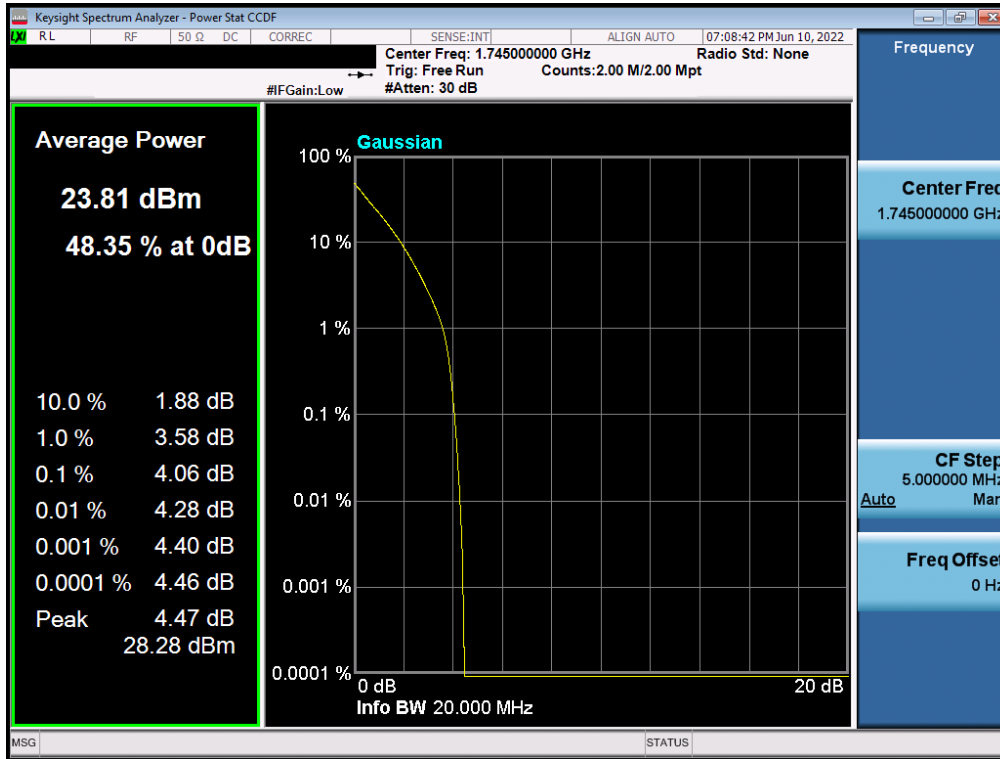
Plot 7-241. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



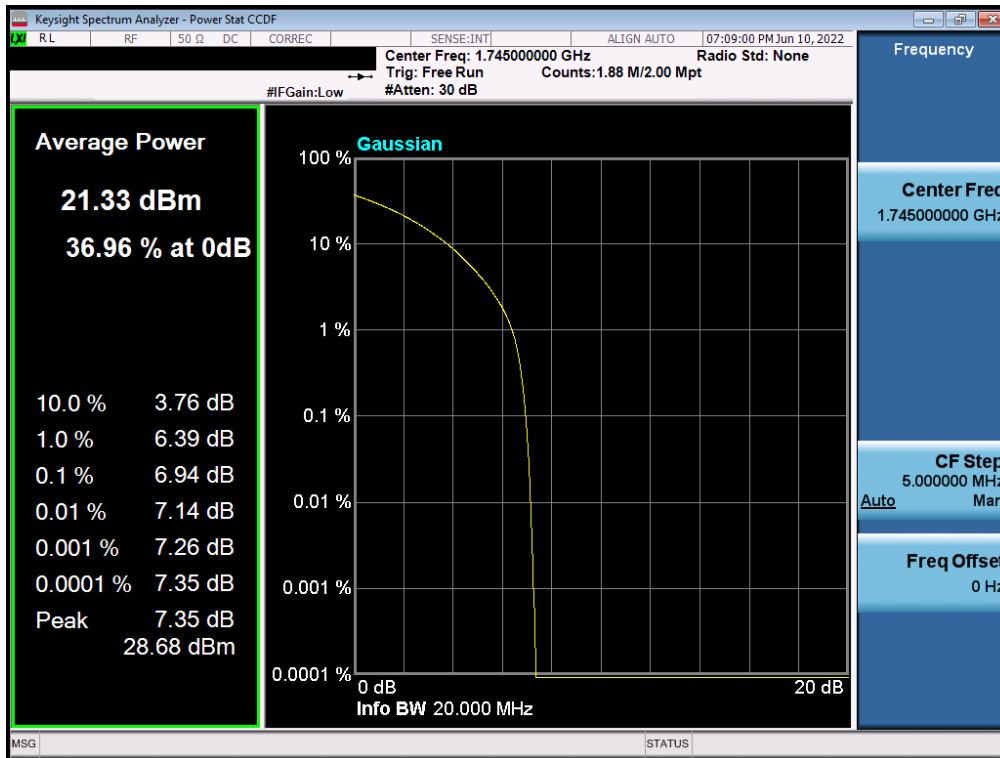
Plot 7-242. PAR Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 151 of 198

NR Band n66

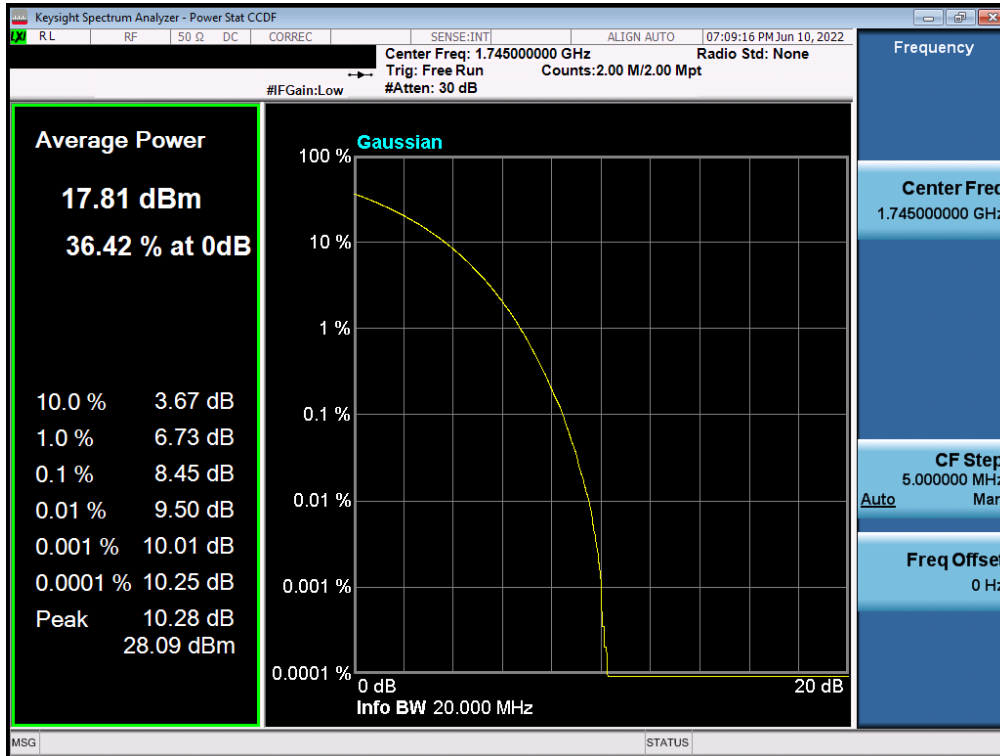


Plot 7-243. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

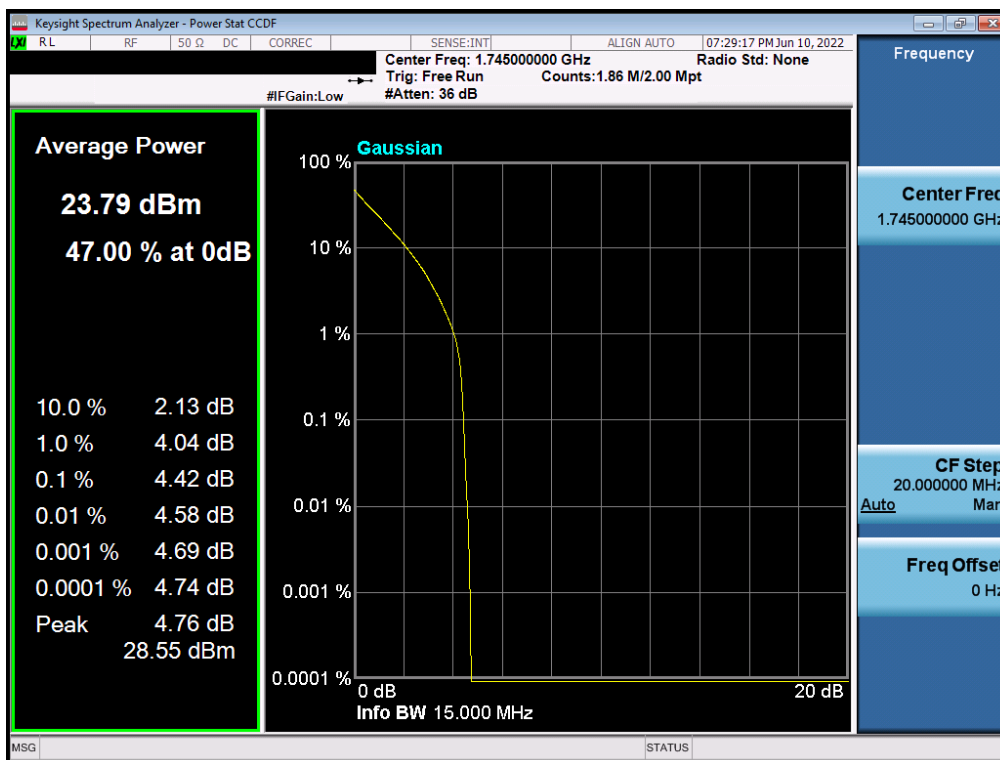


Plot 7-244. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 152 of 198	

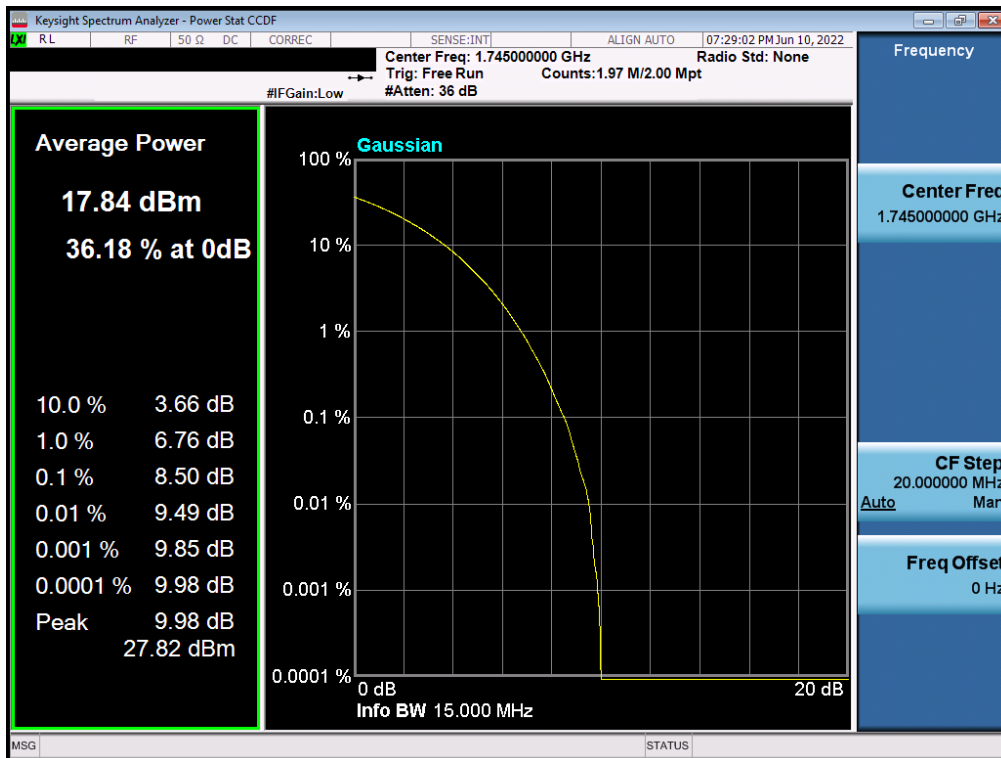
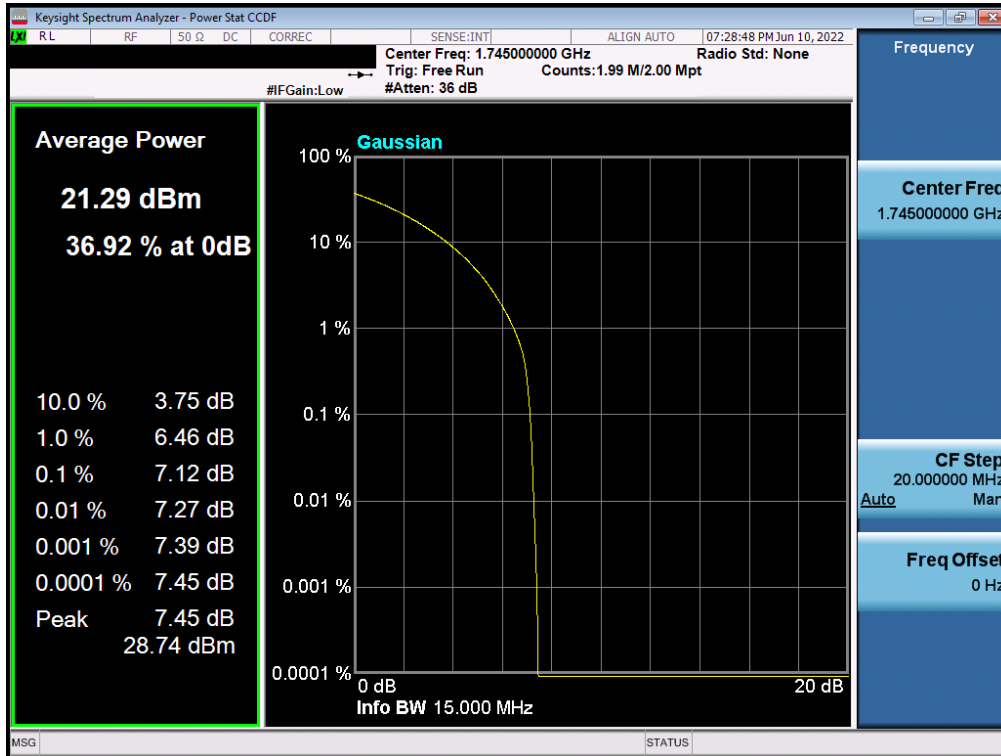


Plot 7-245. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB)

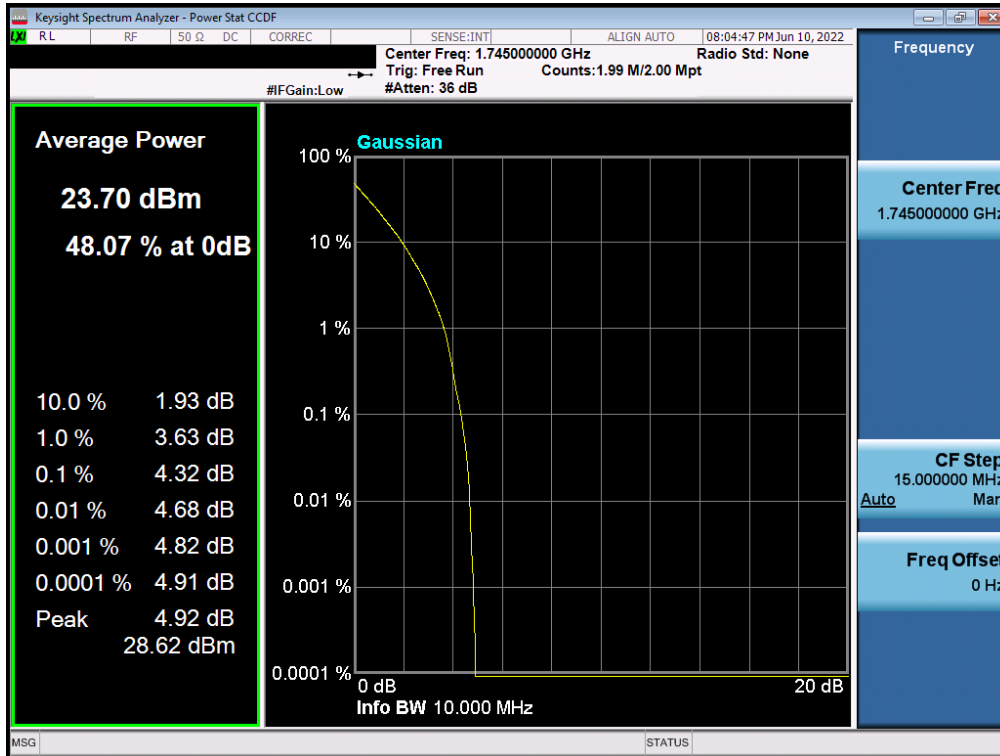


Plot 7-246. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

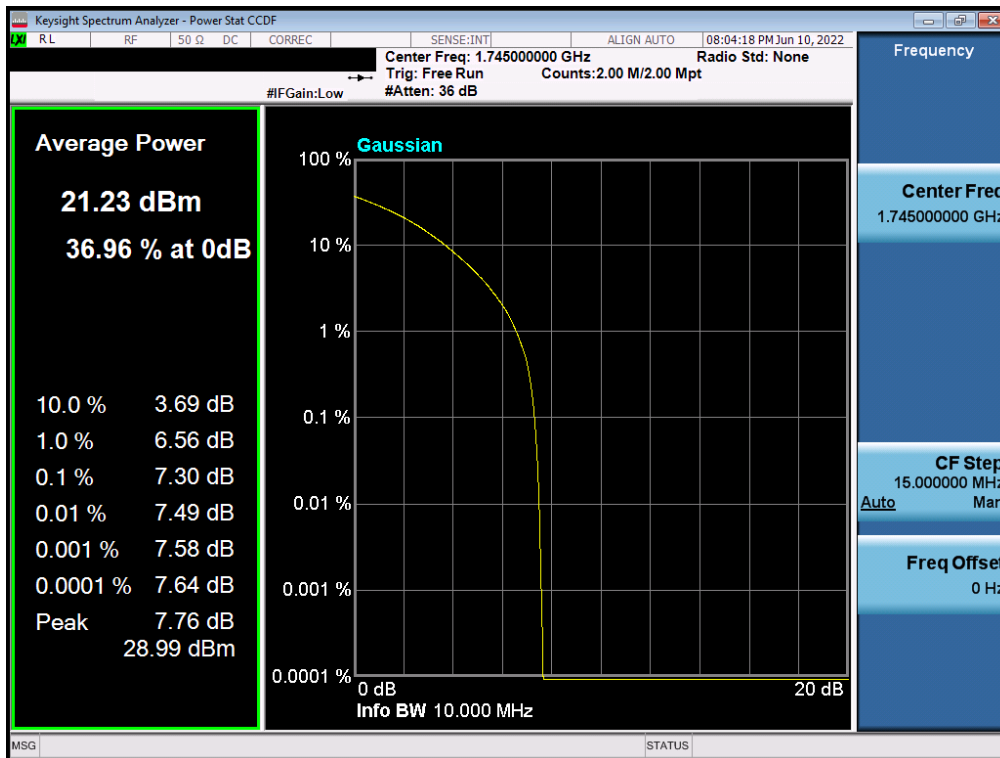
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 153 of 198



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Plot 7-249. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-250. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2205240063-06.PY7	Test Dates: 6/2/2022 - 8/10/2022	EUT Type: Portable Handset	Page 155 of 198