



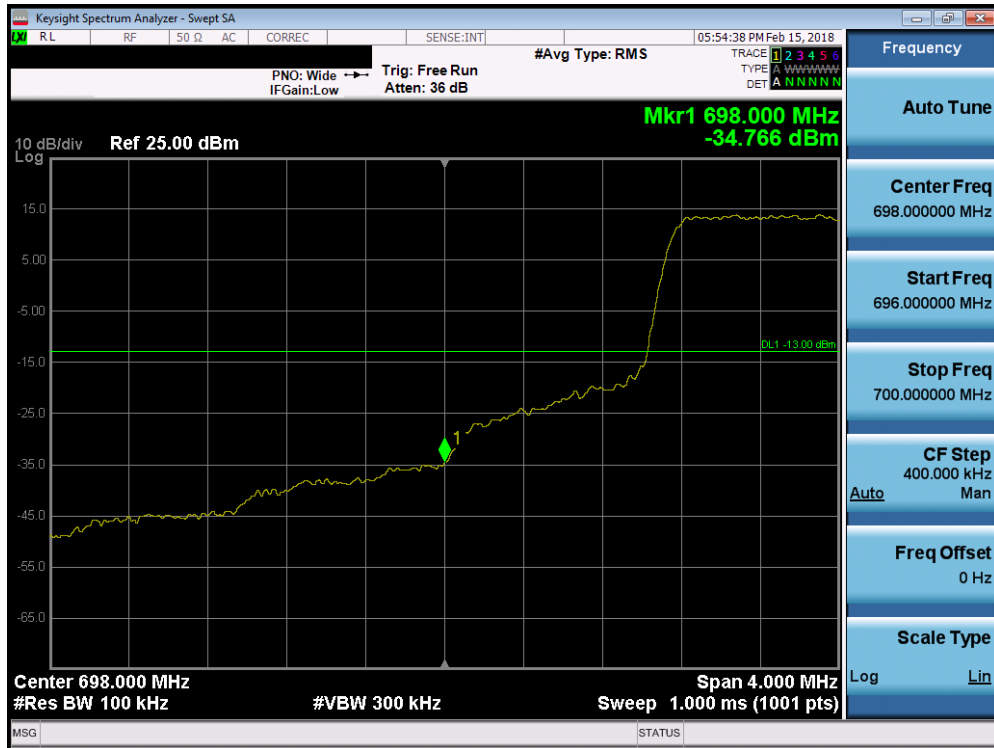
Plot 7-114. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-115. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 79 of 184

**Band 12**

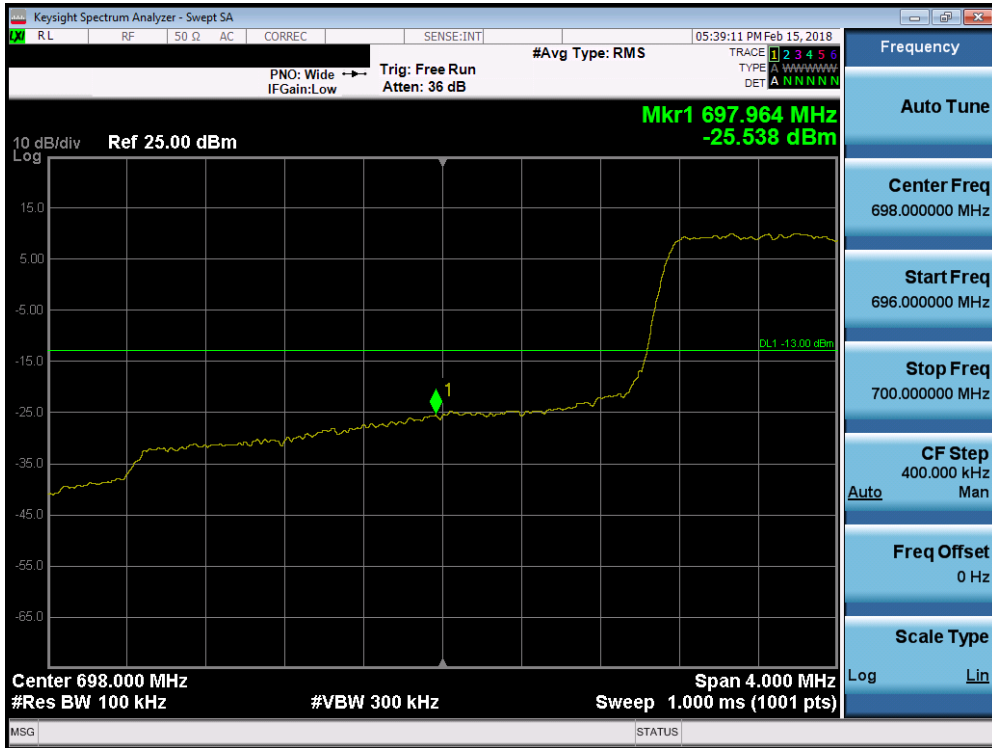


**Plot 7-116. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)**

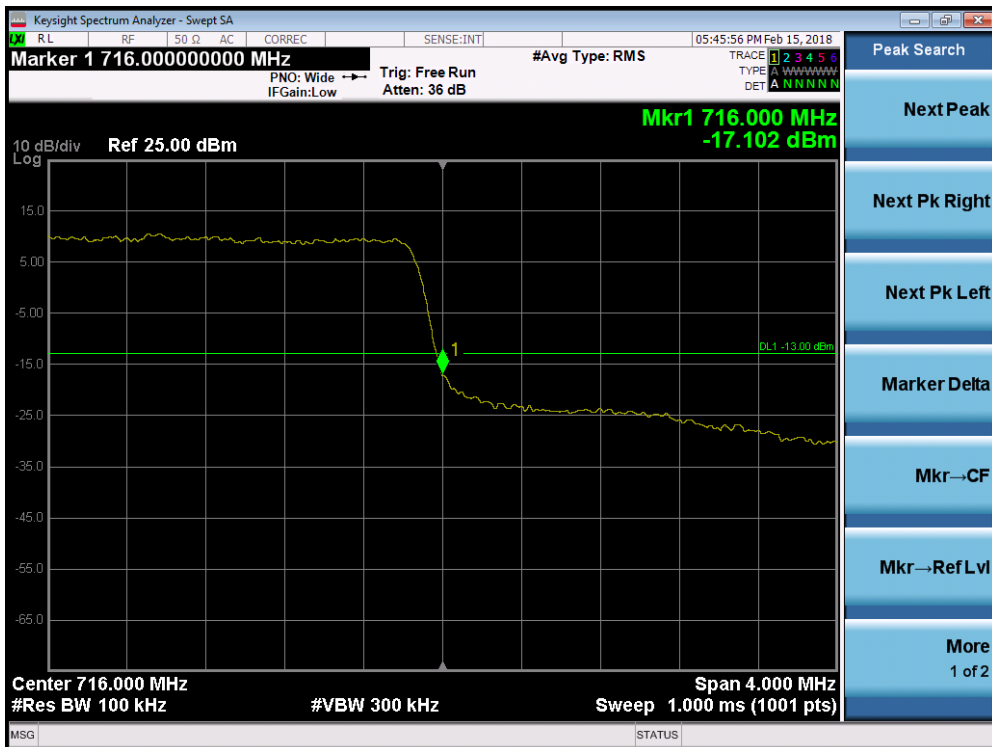


**Plot 7-117. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)**

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 80 of 184

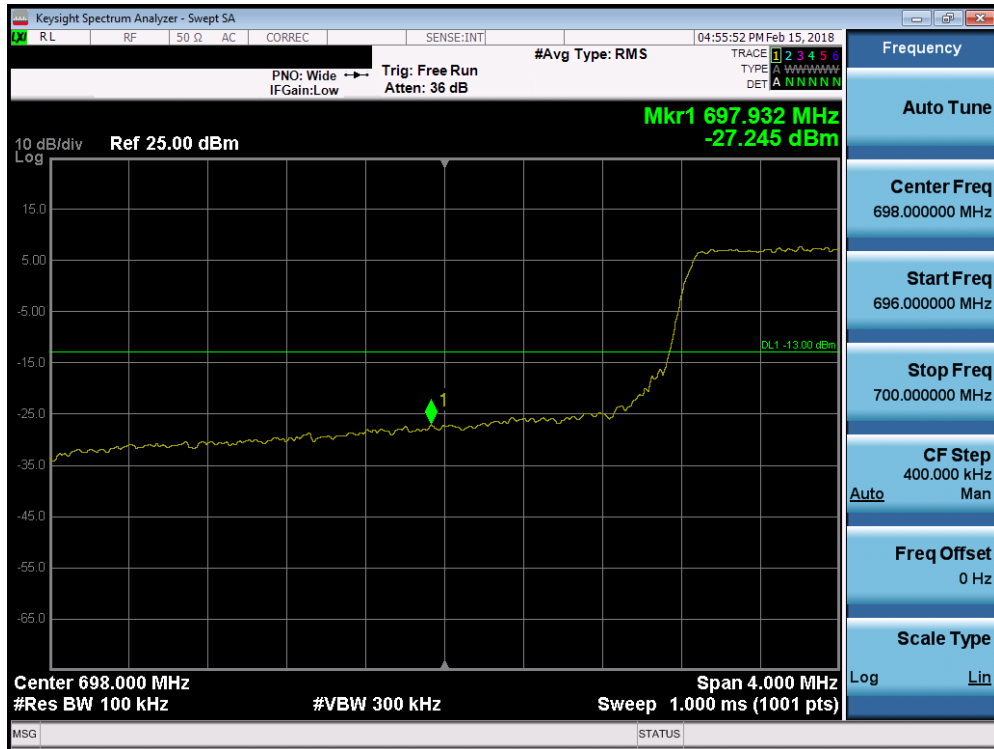


Plot 7-118. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

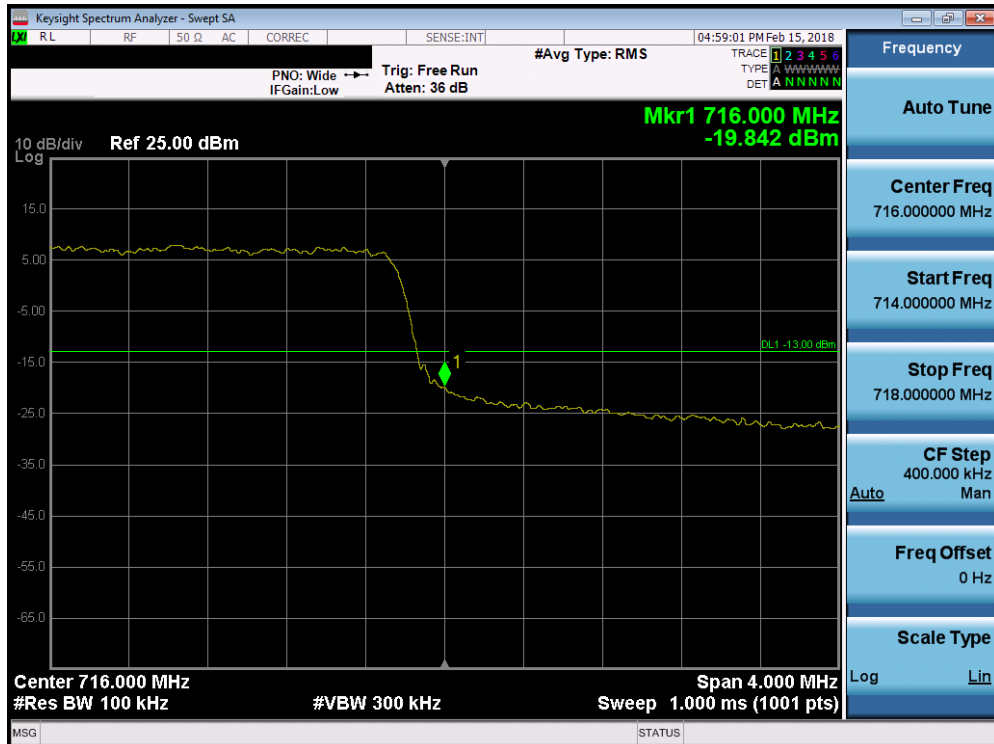


Plot 7-119. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 81 of 184

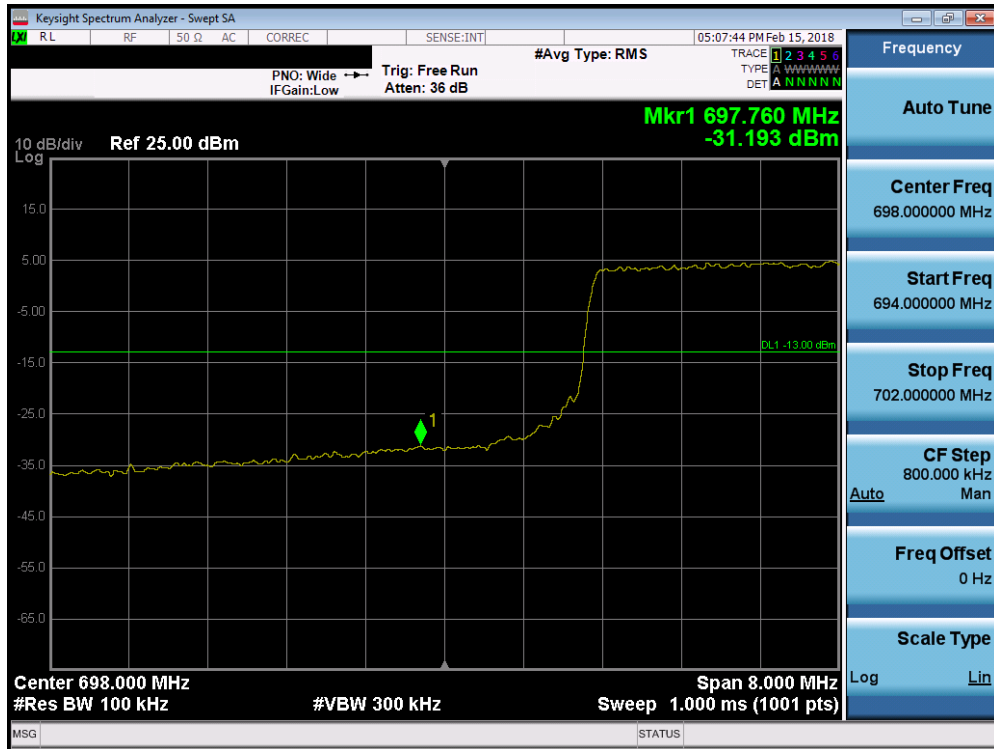


Plot 7-120. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-121. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 82 of 184



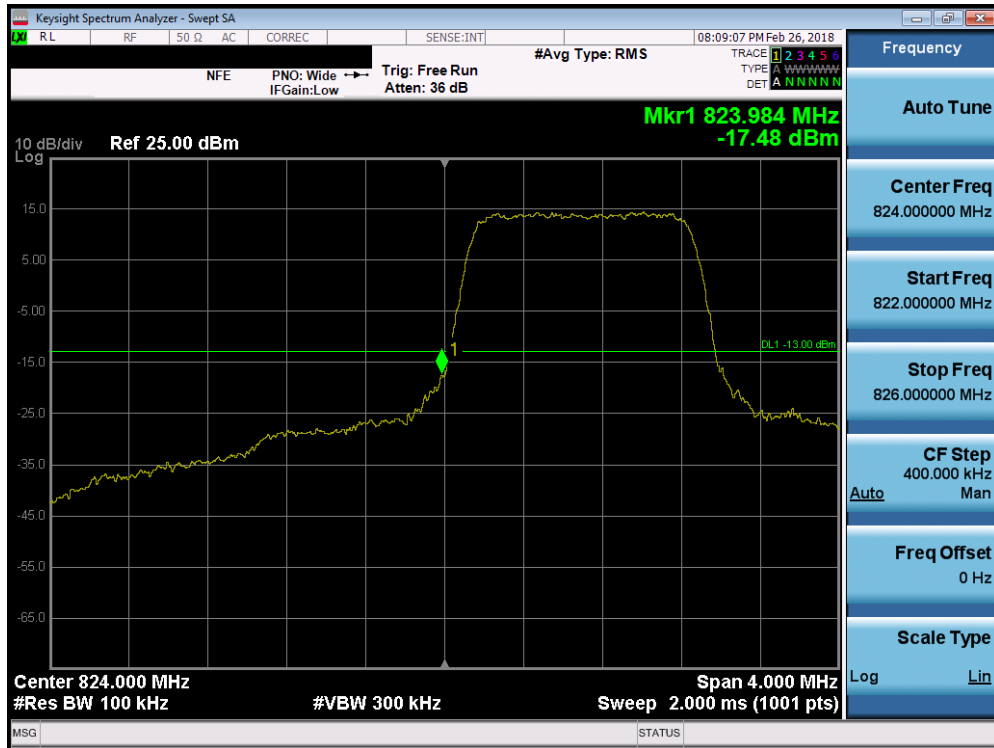
Plot 7-122. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



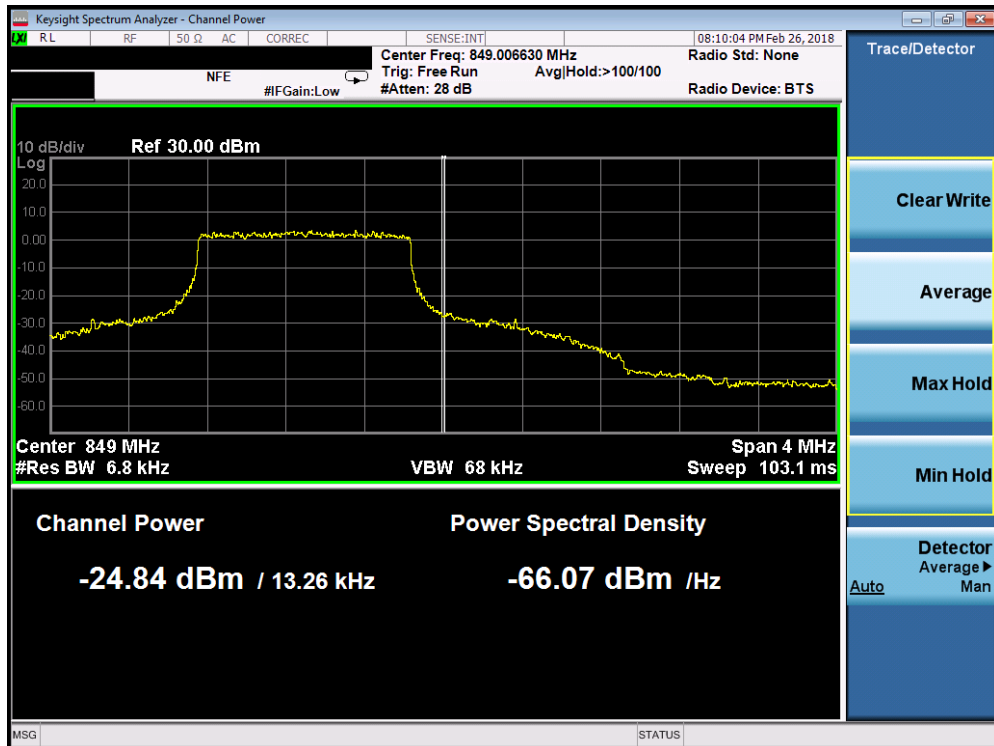
Plot 7-123. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 83 of 184

**Band 5**



**Plot 7-124. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)**

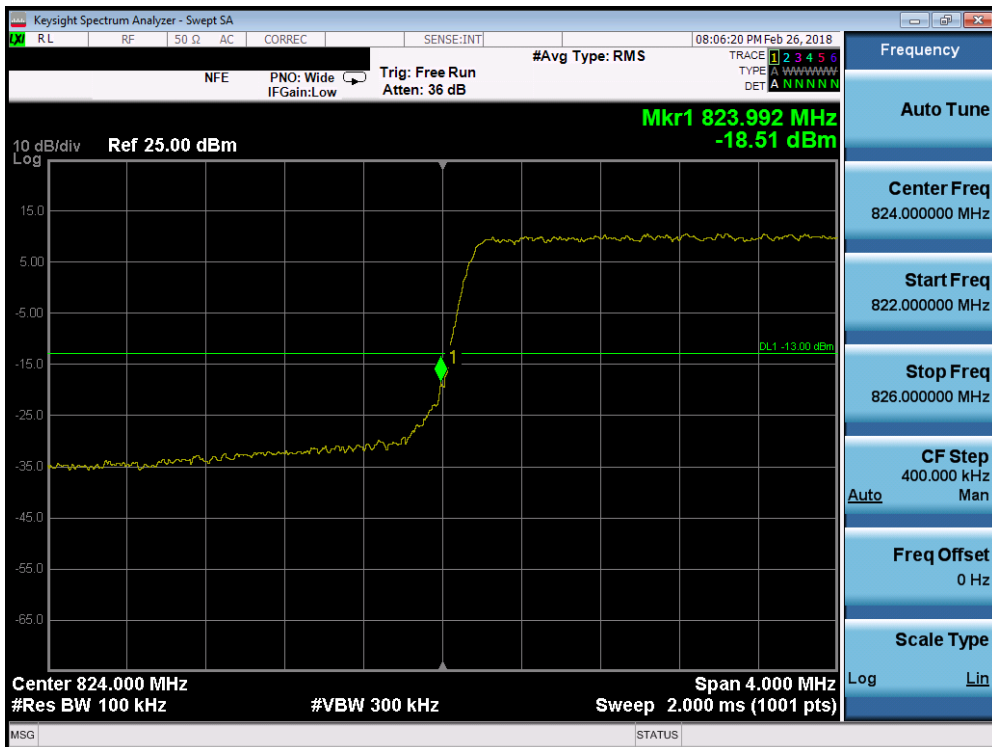


**Plot 7-125. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)**

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 84 of 184



Plot 7-126. Upper Extended Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)



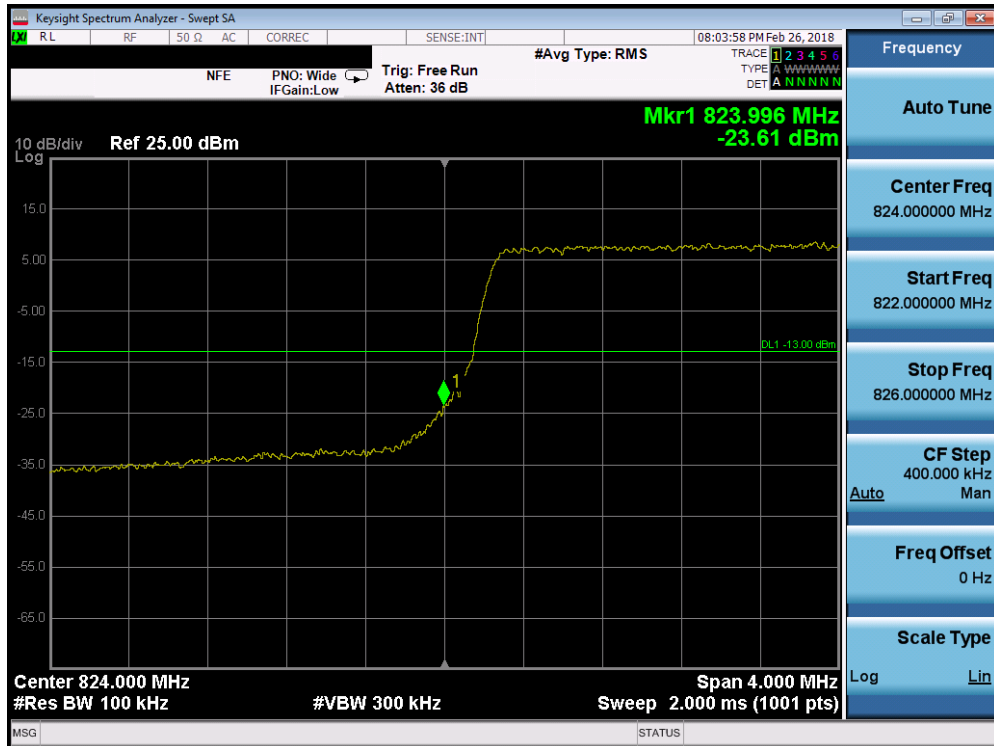
Plot 7-127. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Plot 7-128. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)



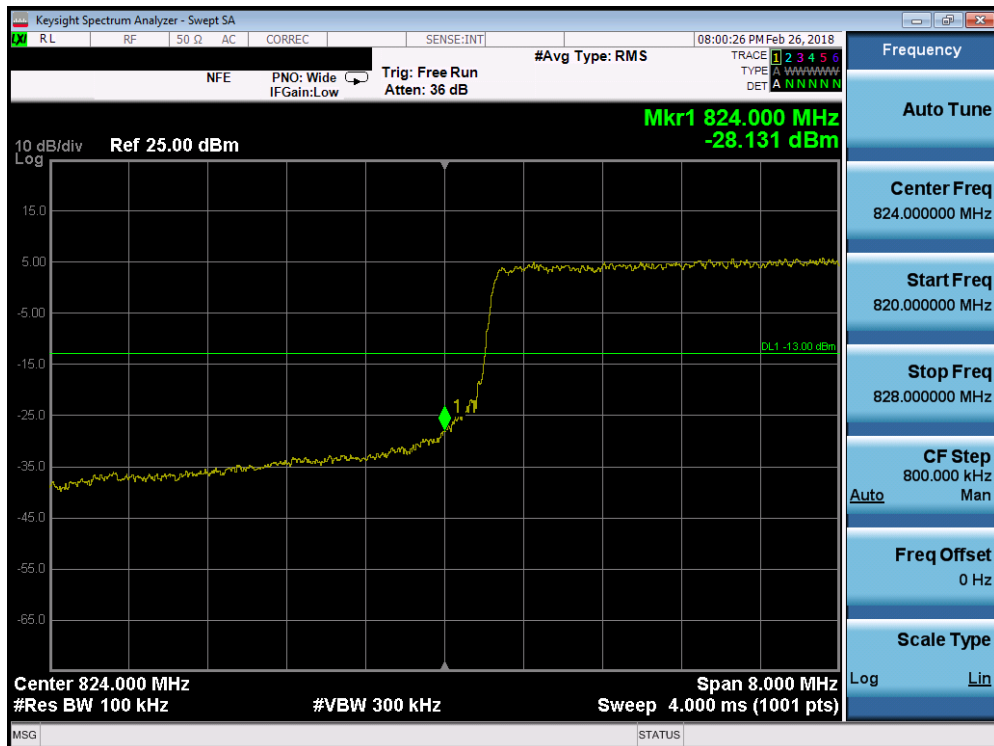
Plot 7-129. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 86 of 184	





Plot 7-130. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)



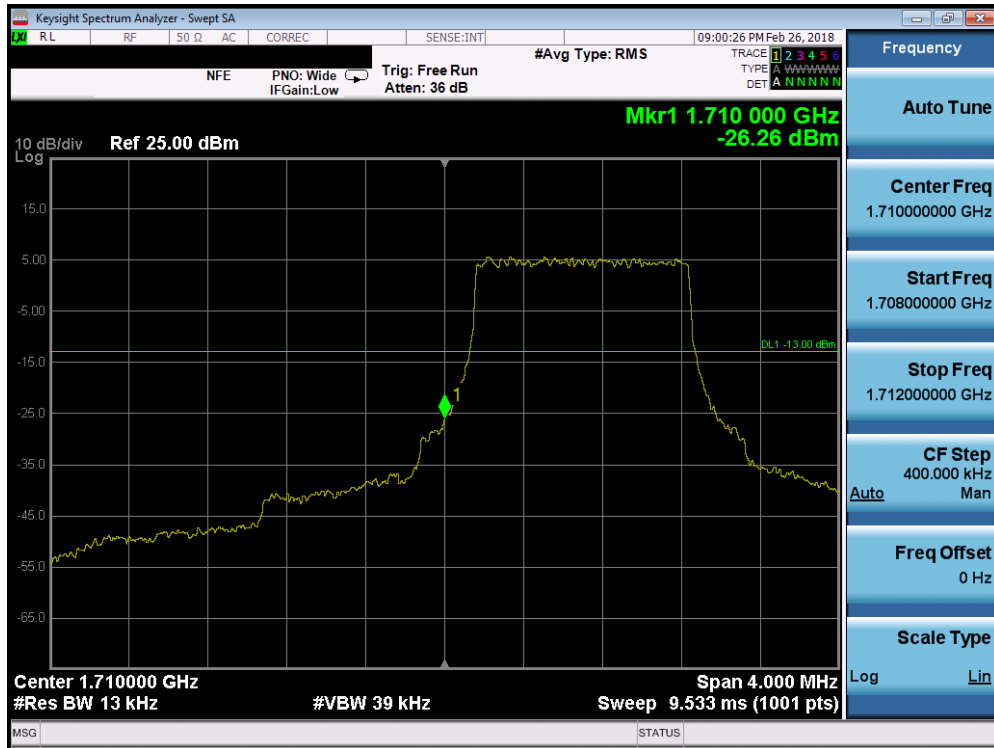
Plot 7-131. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 87 of 184	

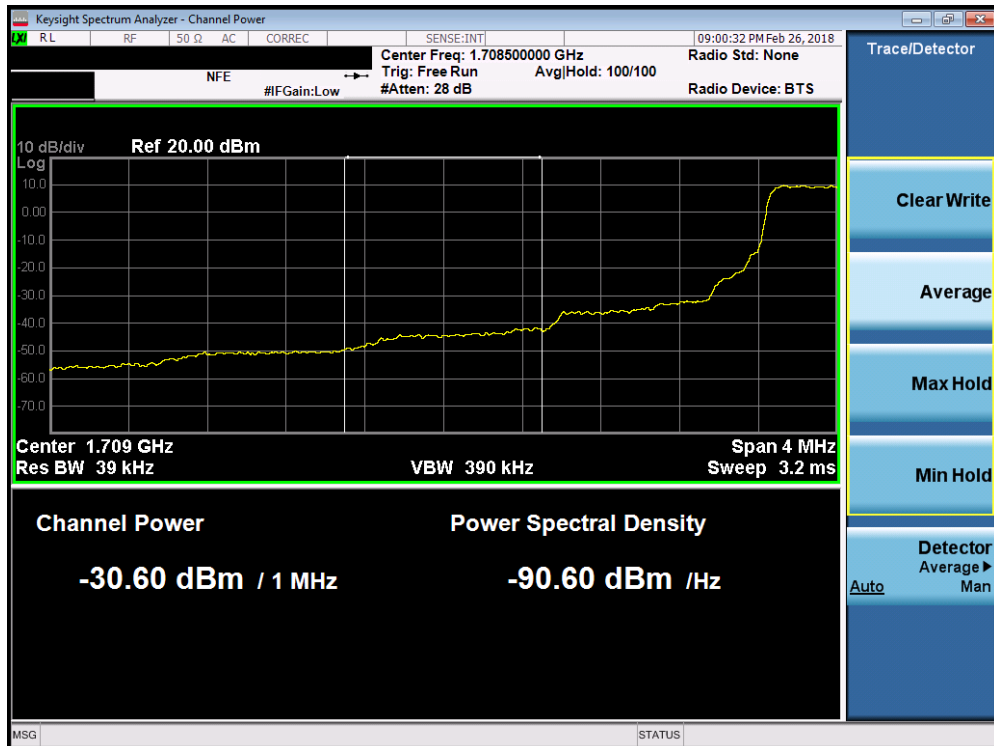


Plot 7-132. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 88 of 184



Plot 7-133. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-134. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 89 of 184



Plot 7-135. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

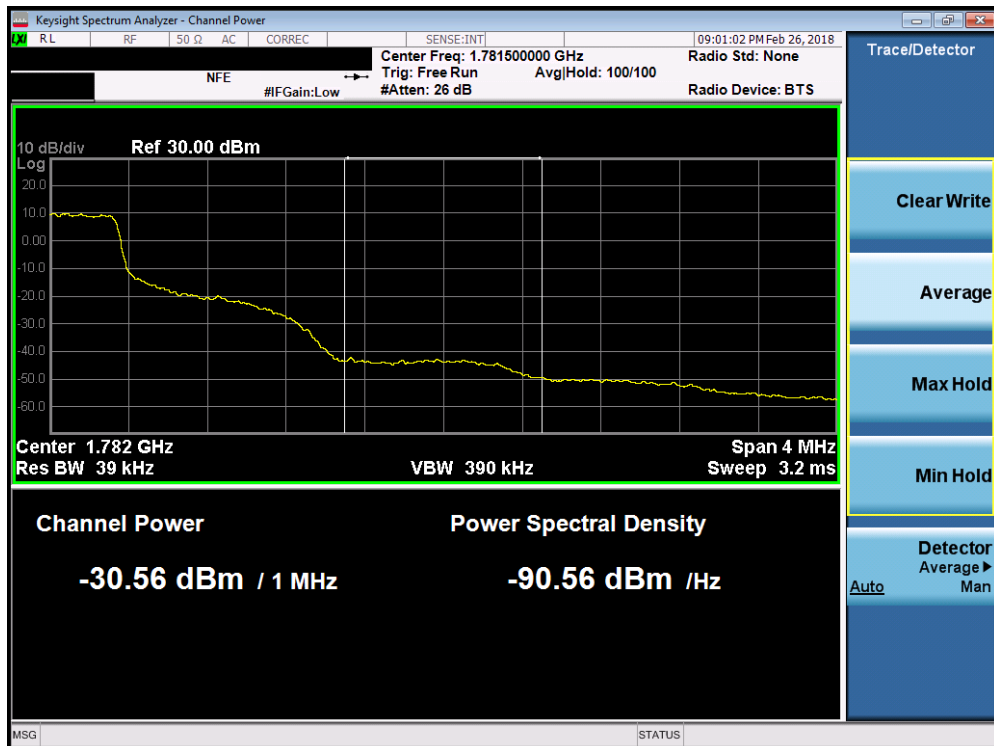


Plot 7-136. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 90 of 184

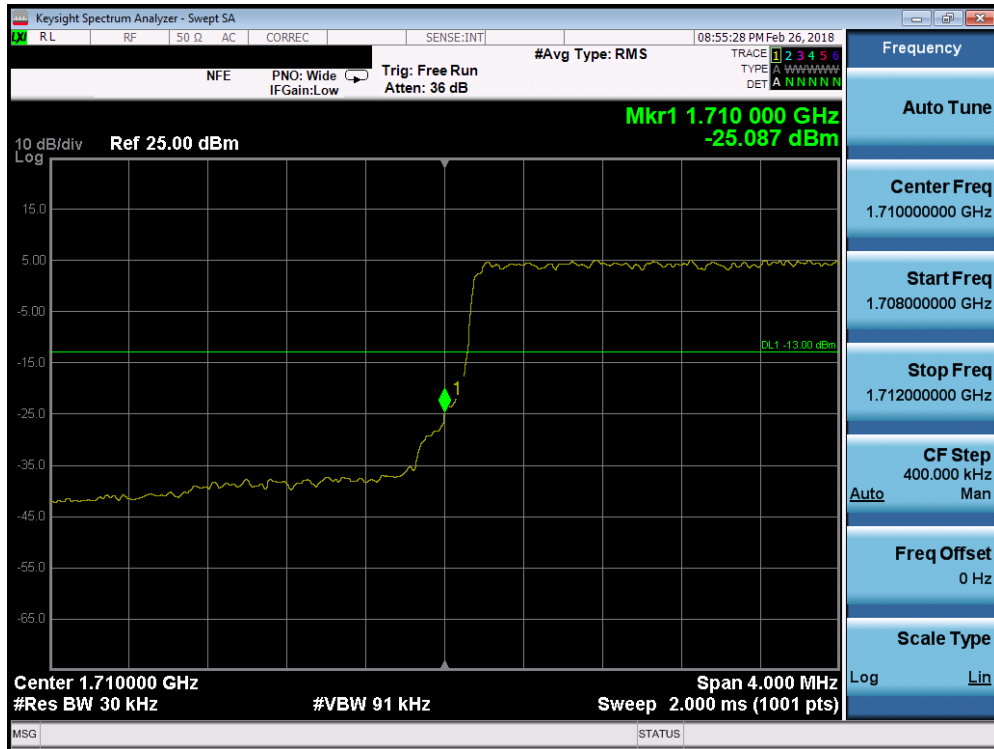


Plot 7-137. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

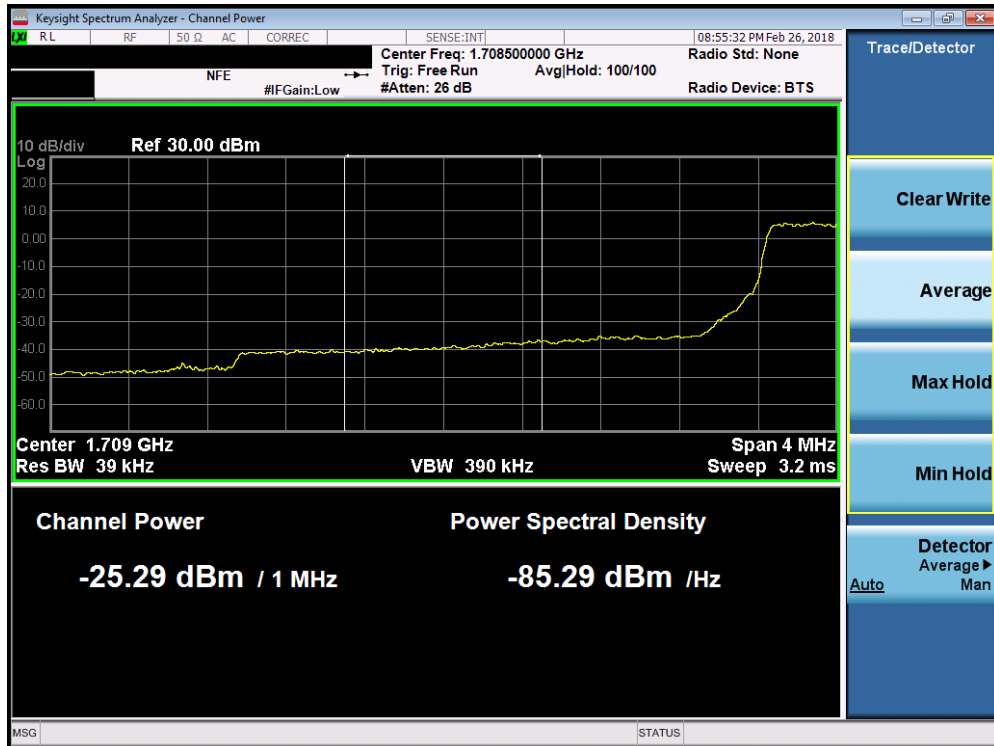


Plot 7-138. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 91 of 184

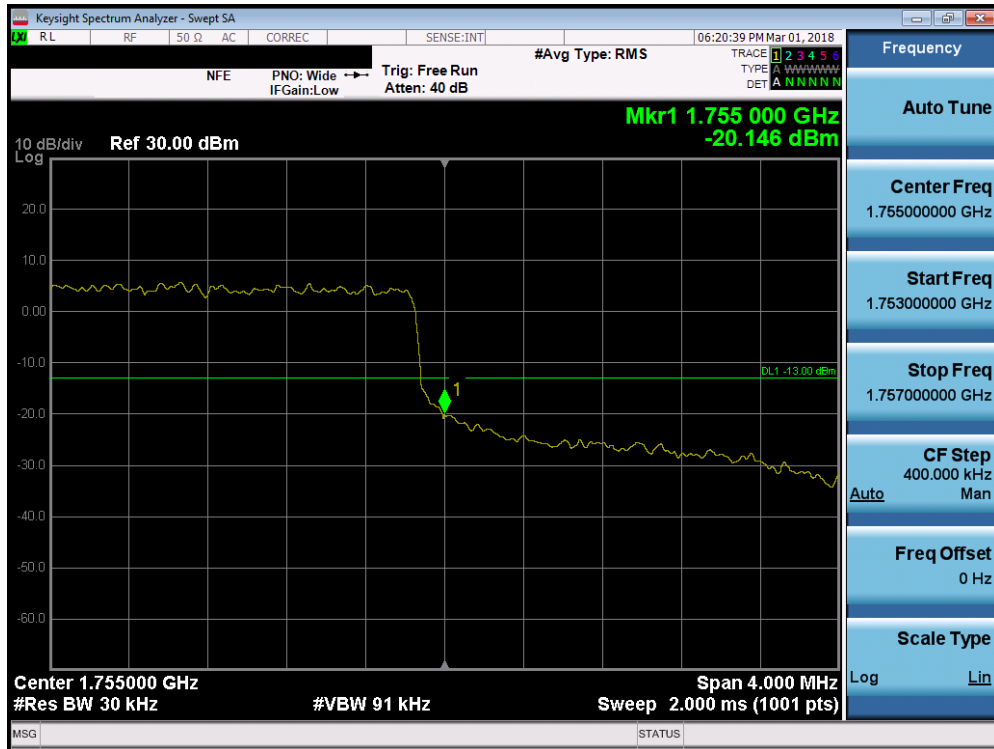


Plot 7-139. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-140. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 92 of 184



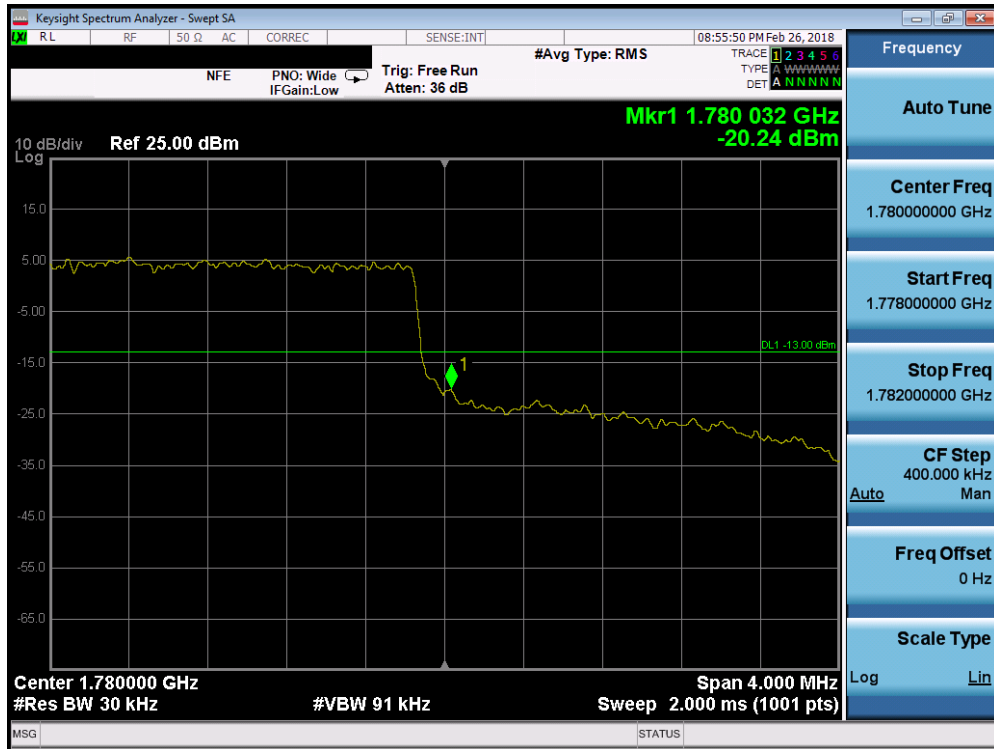
Plot 7-141. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)



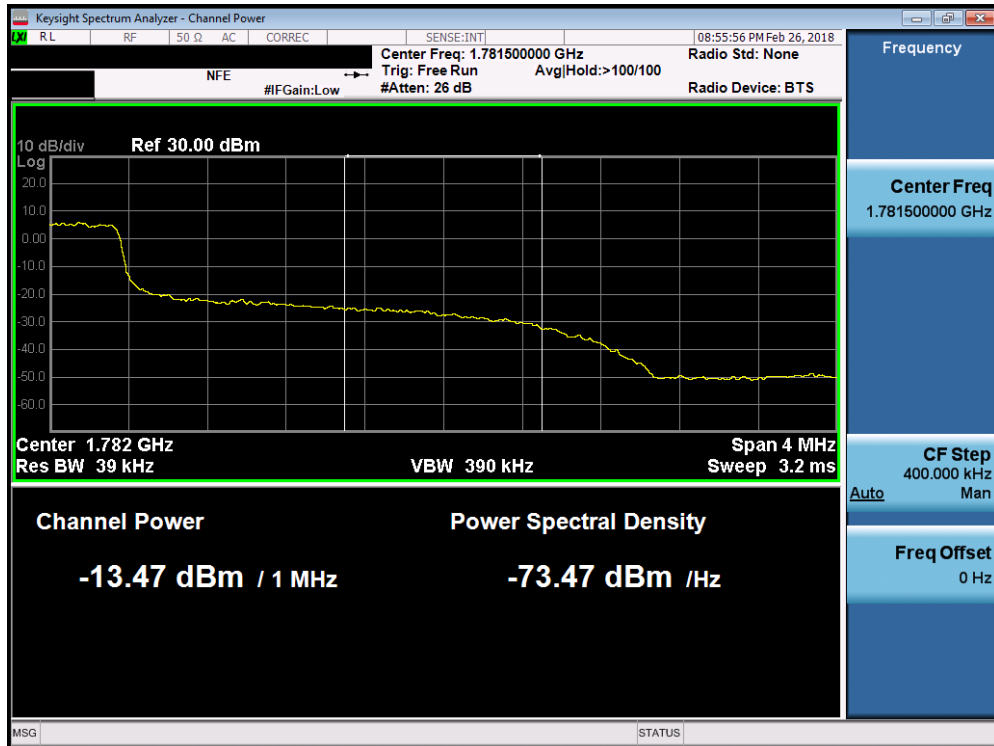
Plot 7-142. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 93 of 184



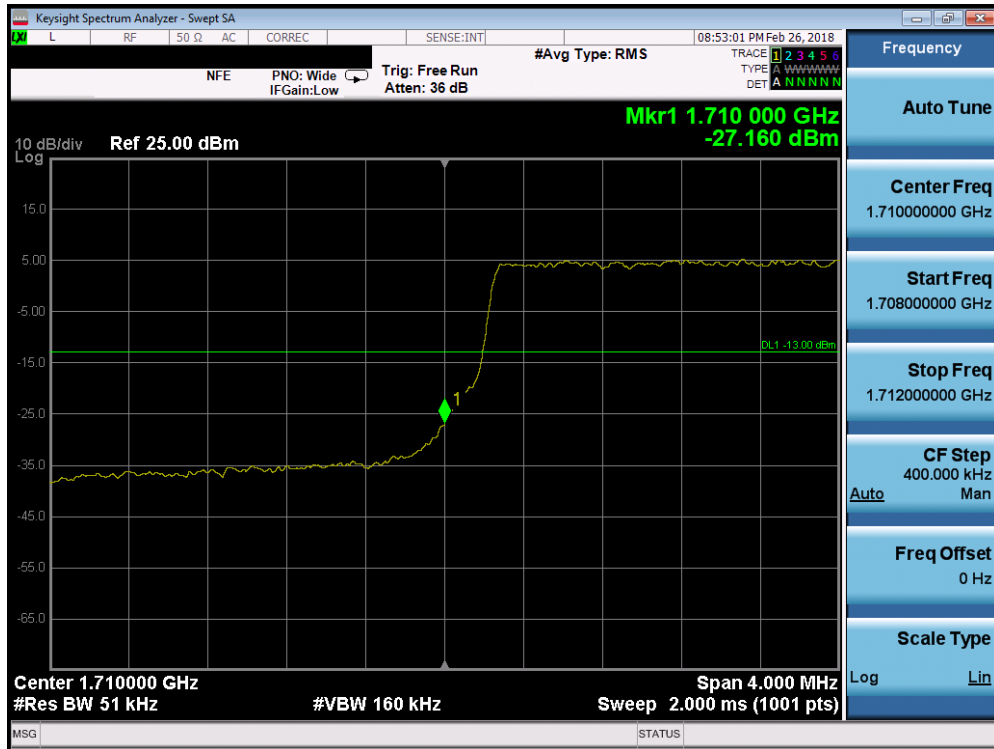


Plot 7-143. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

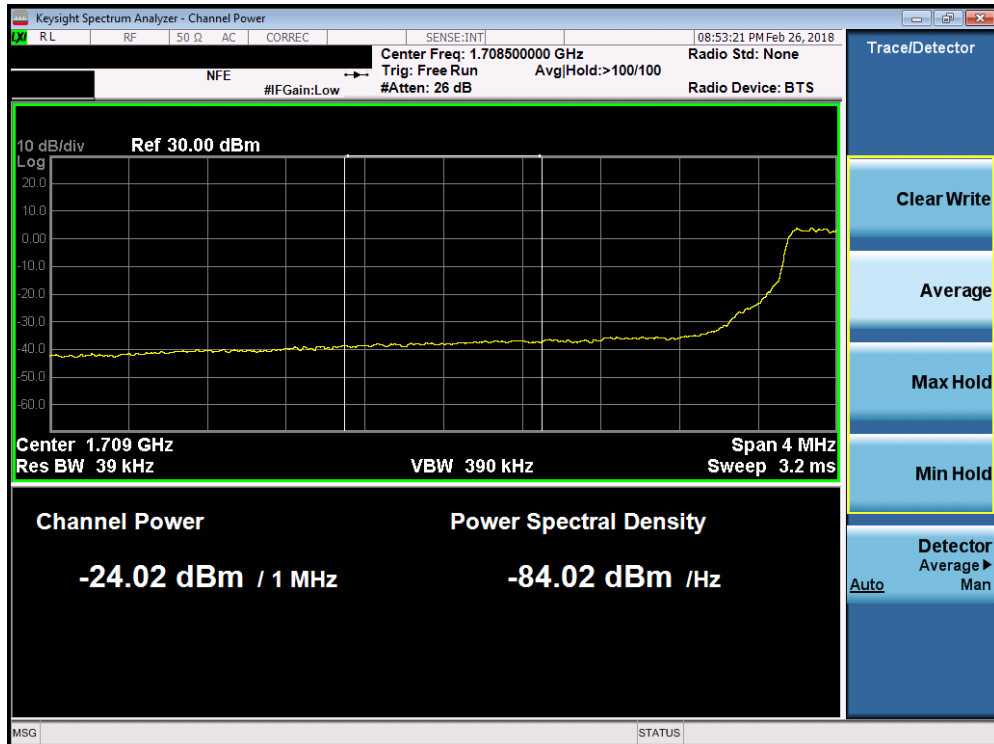


Plot 7-144. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 94 of 184



Plot 7-145. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

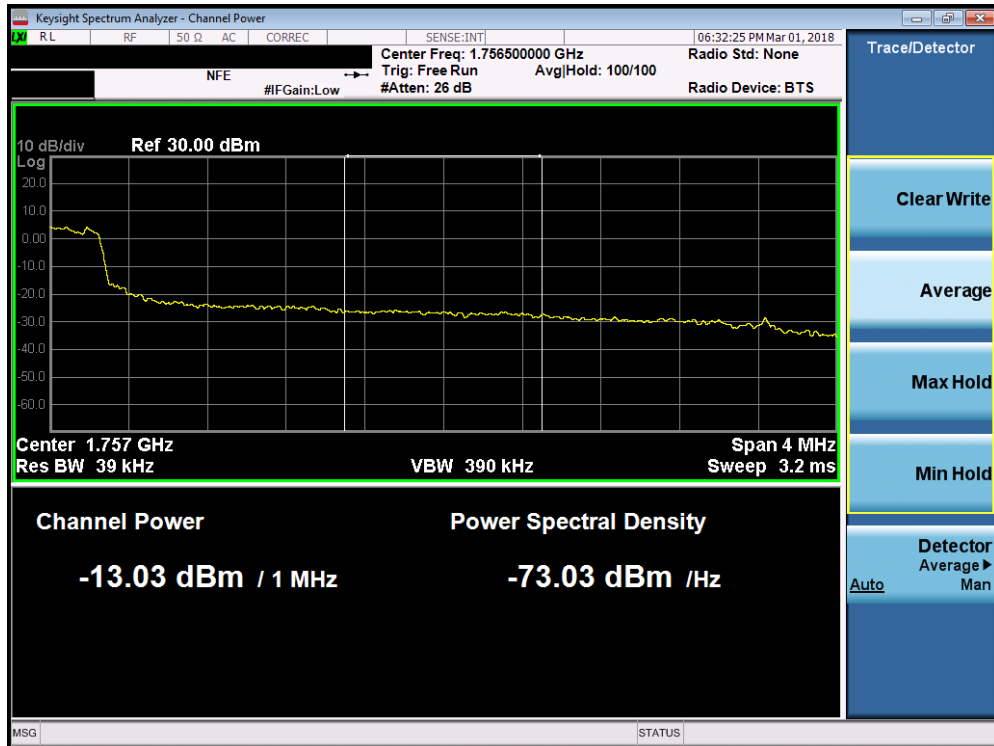


Plot 7-146. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 95 of 184

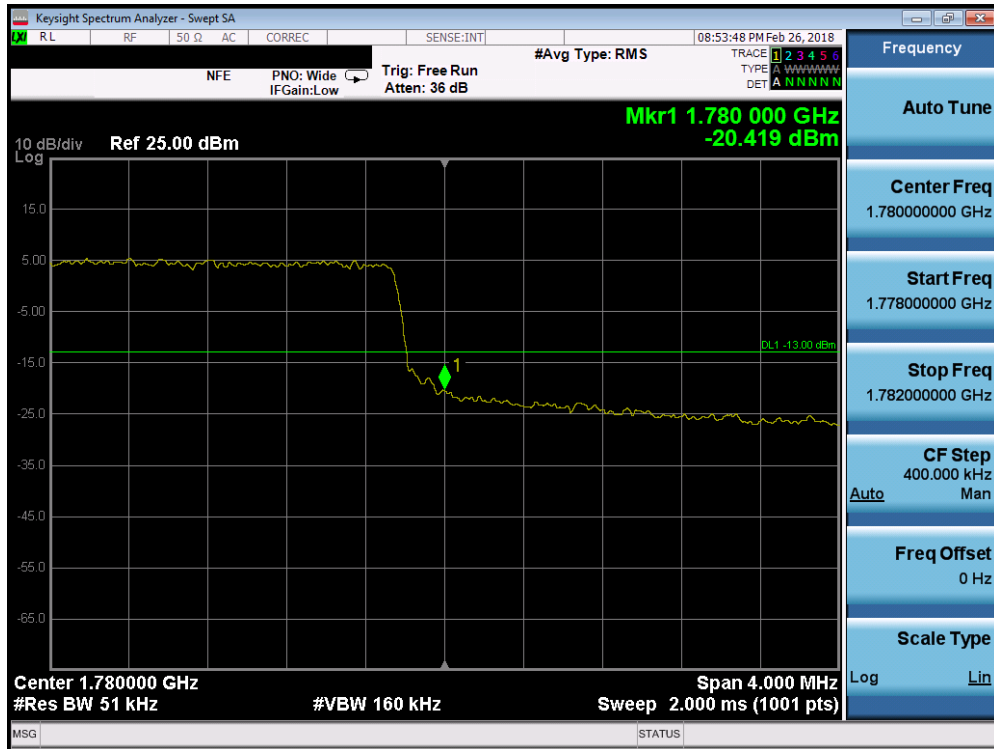


Plot 7-147. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

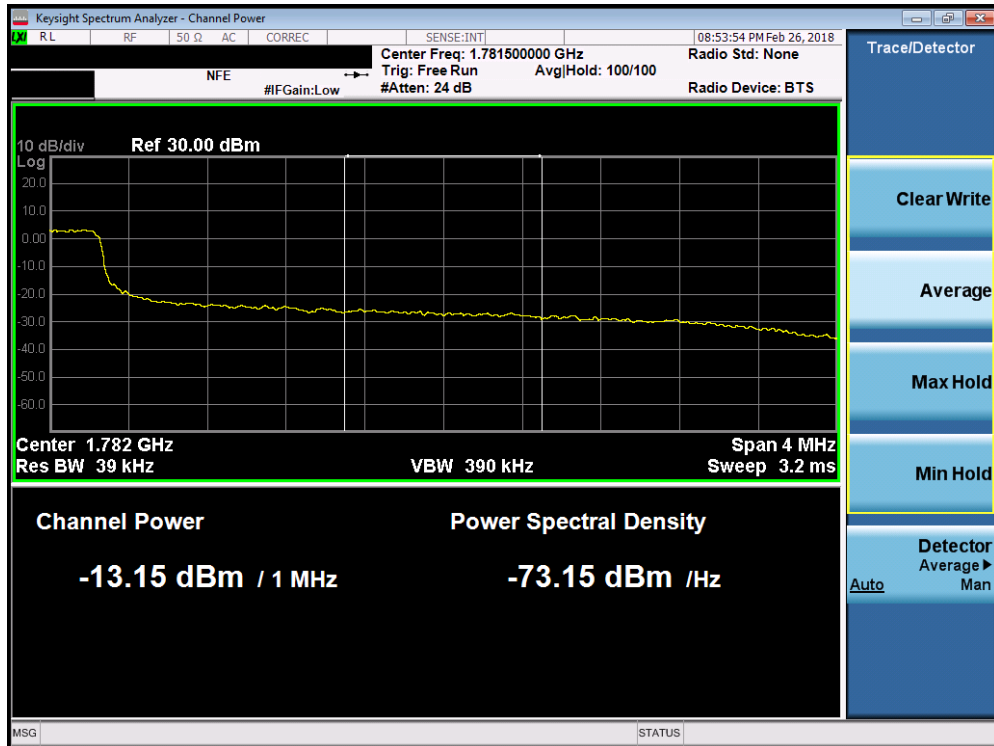


Plot 7-148. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 96 of 184

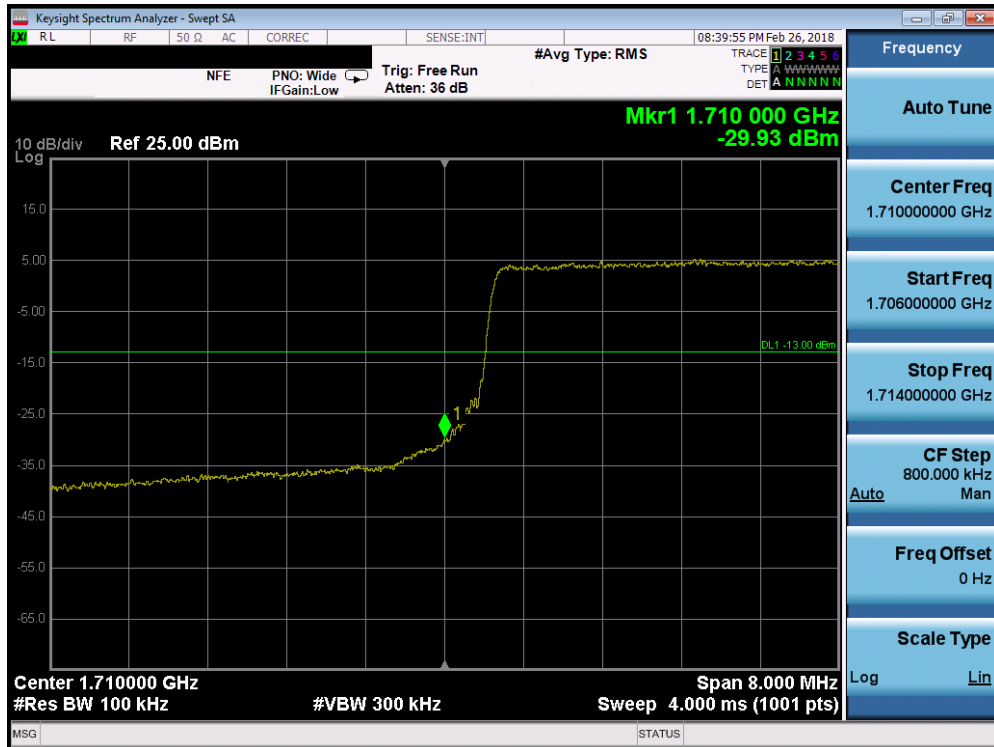


Plot 7-149. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

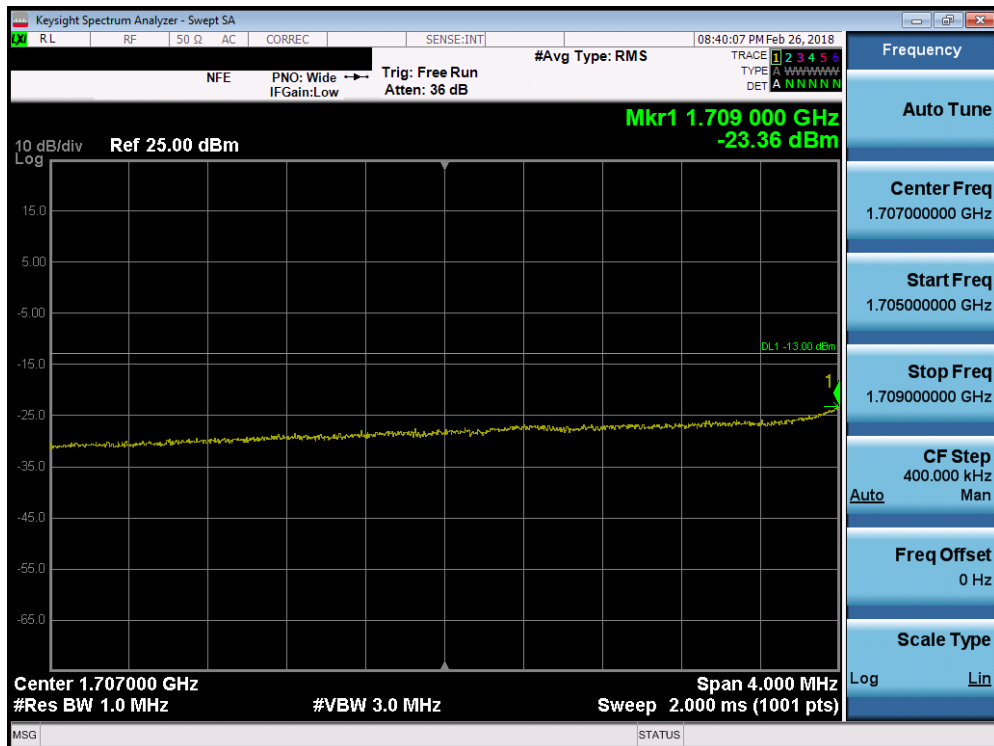


Plot 7-150. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 97 of 184

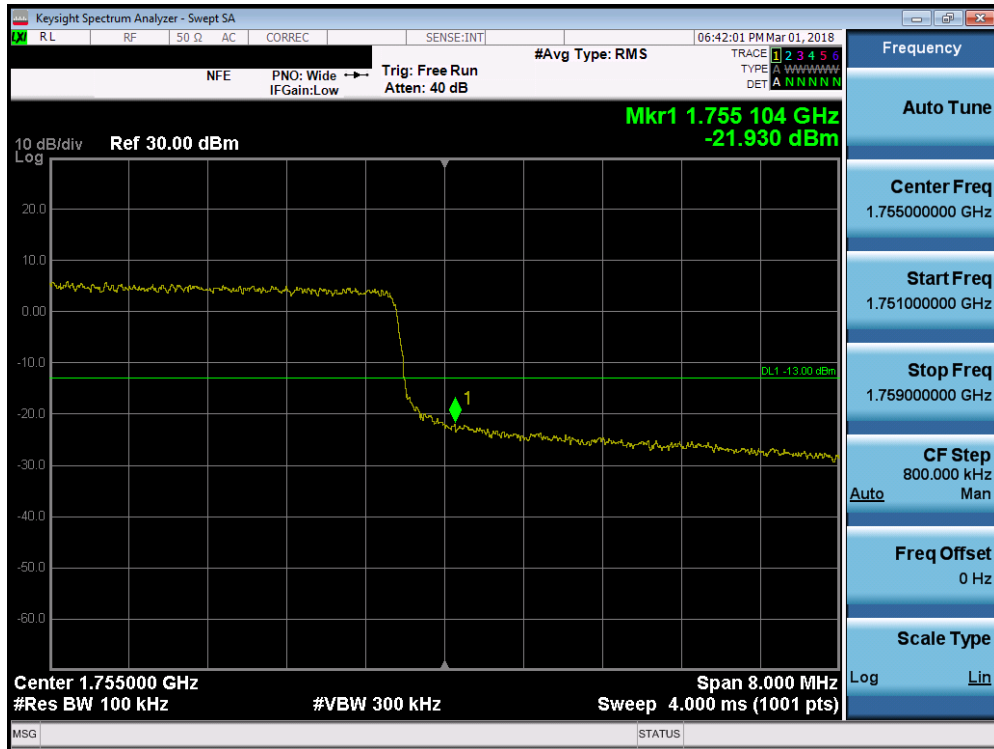


Plot 7-151. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

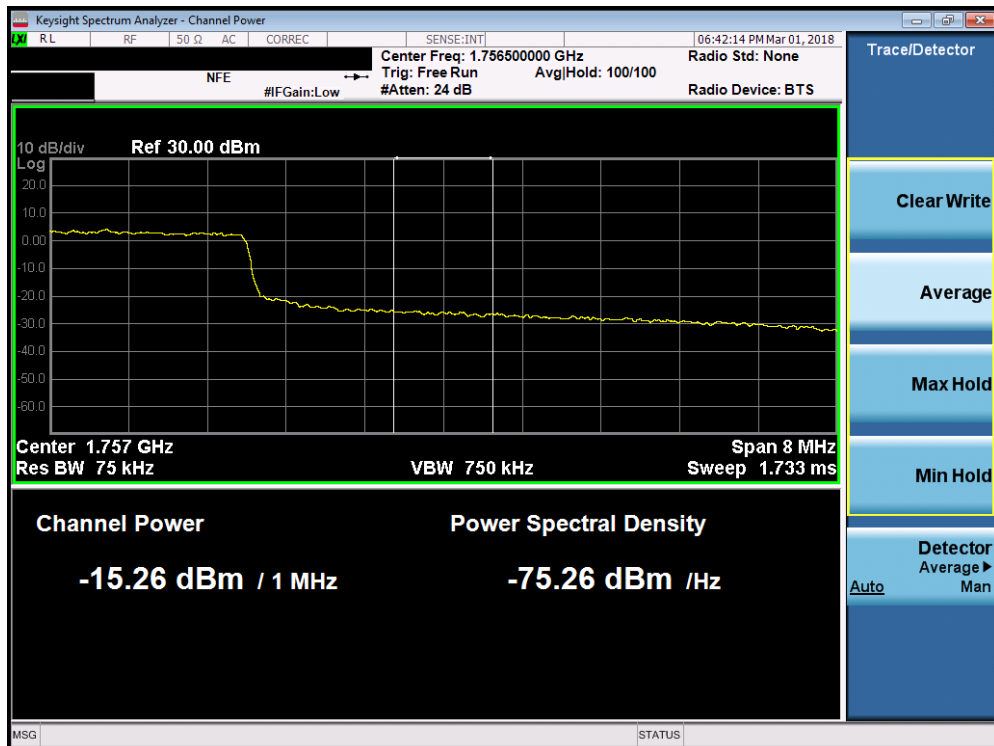


Plot 7-152. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 98 of 184

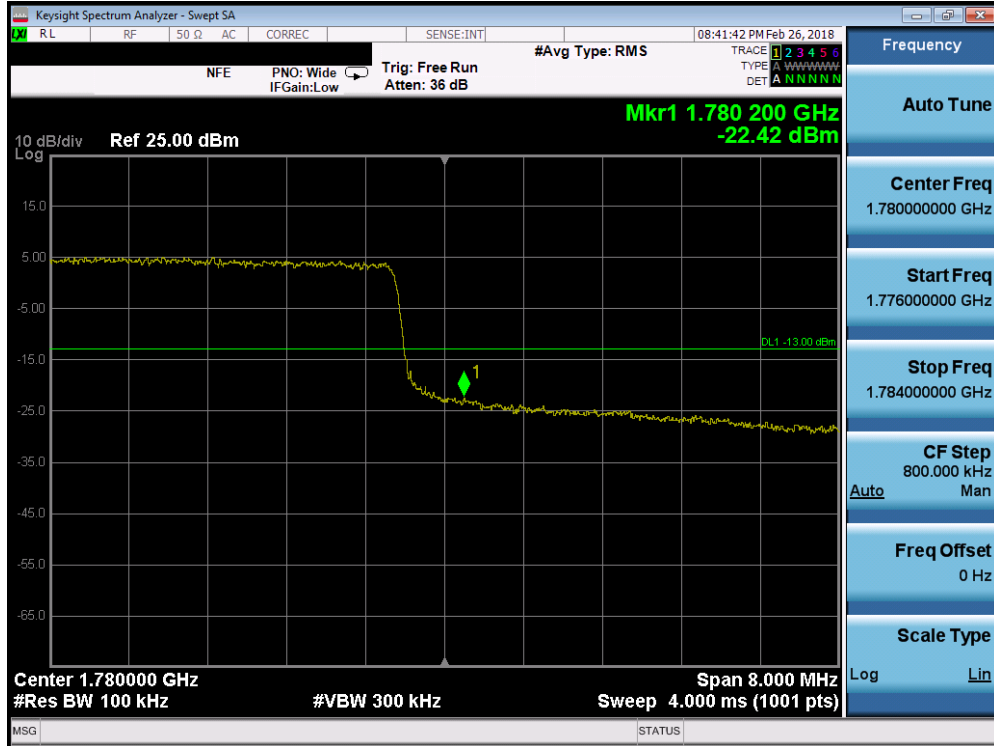


Plot 7-153. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

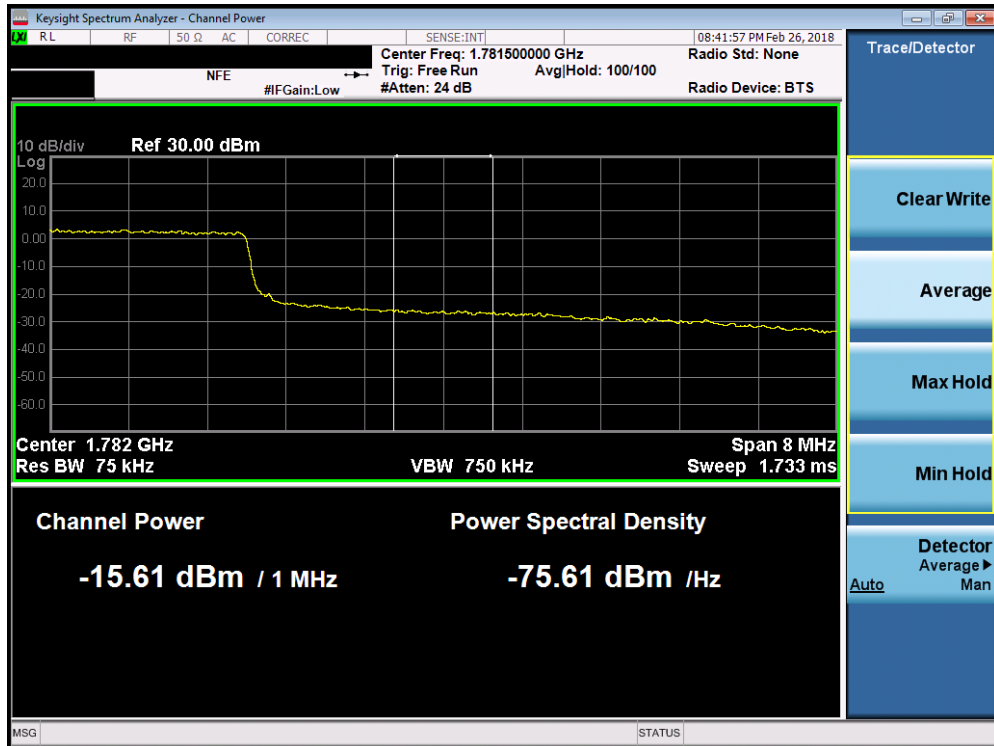


Plot 7-154. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 99 of 184



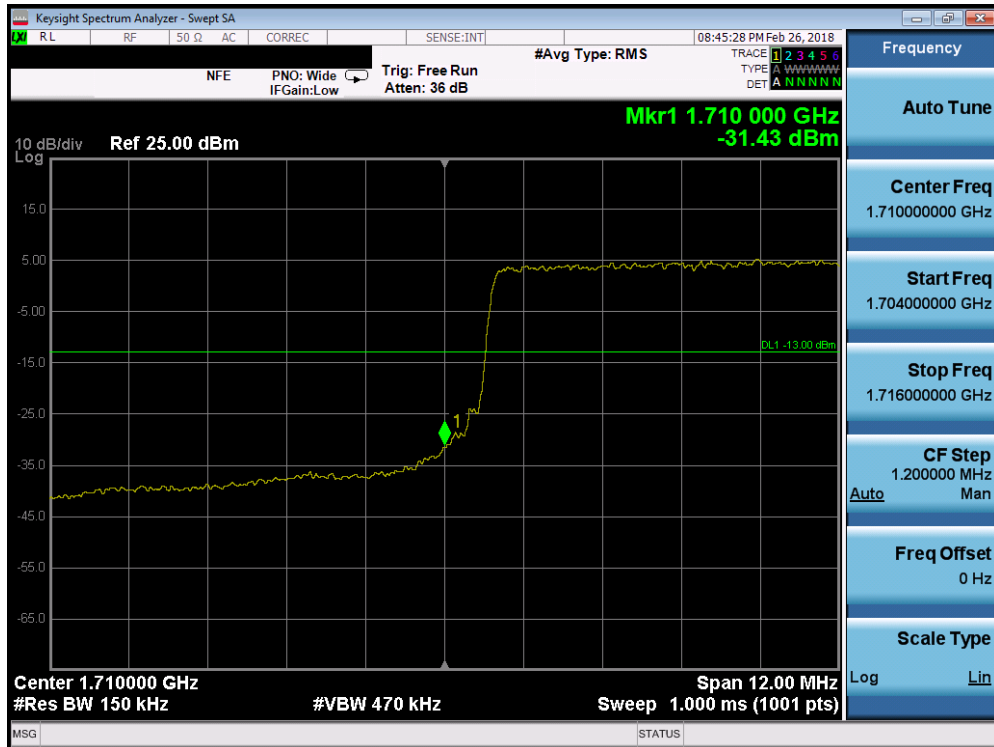
Plot 7-155. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)



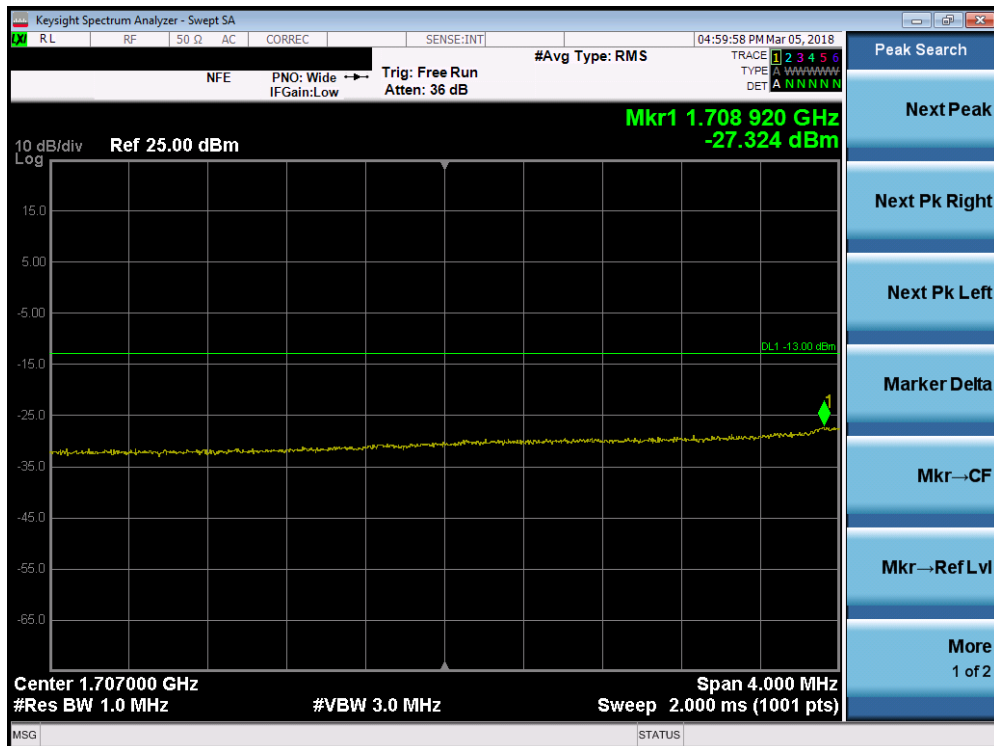
Plot 7-156. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
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Plot 7-157. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

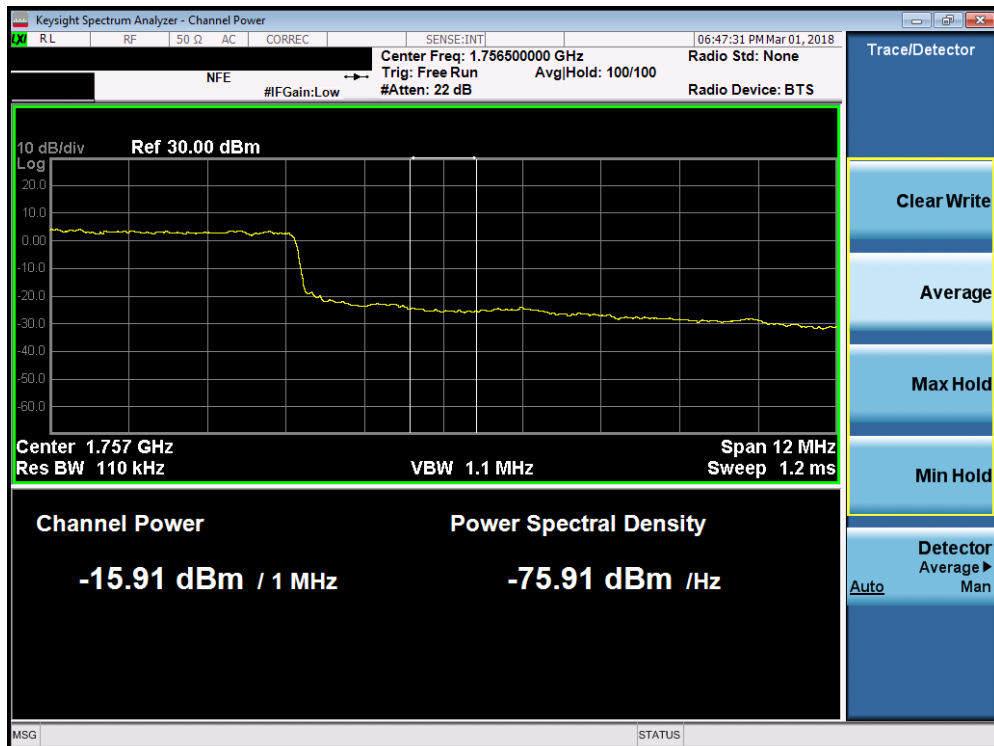


Plot 7-158. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 101 of 184

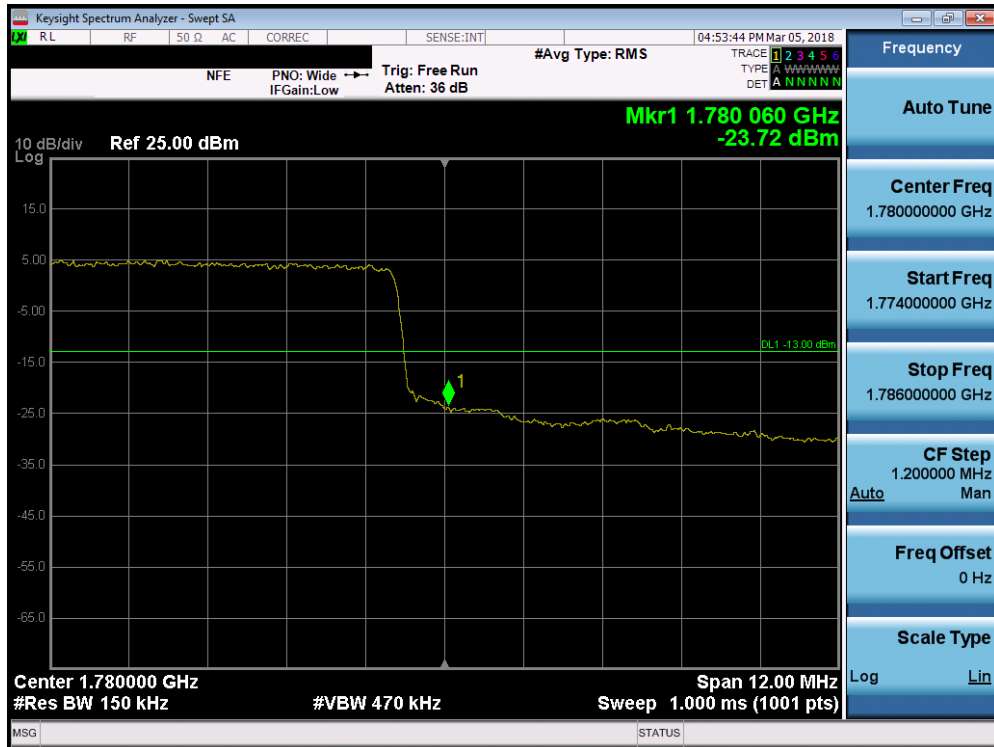


Plot 7-159. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

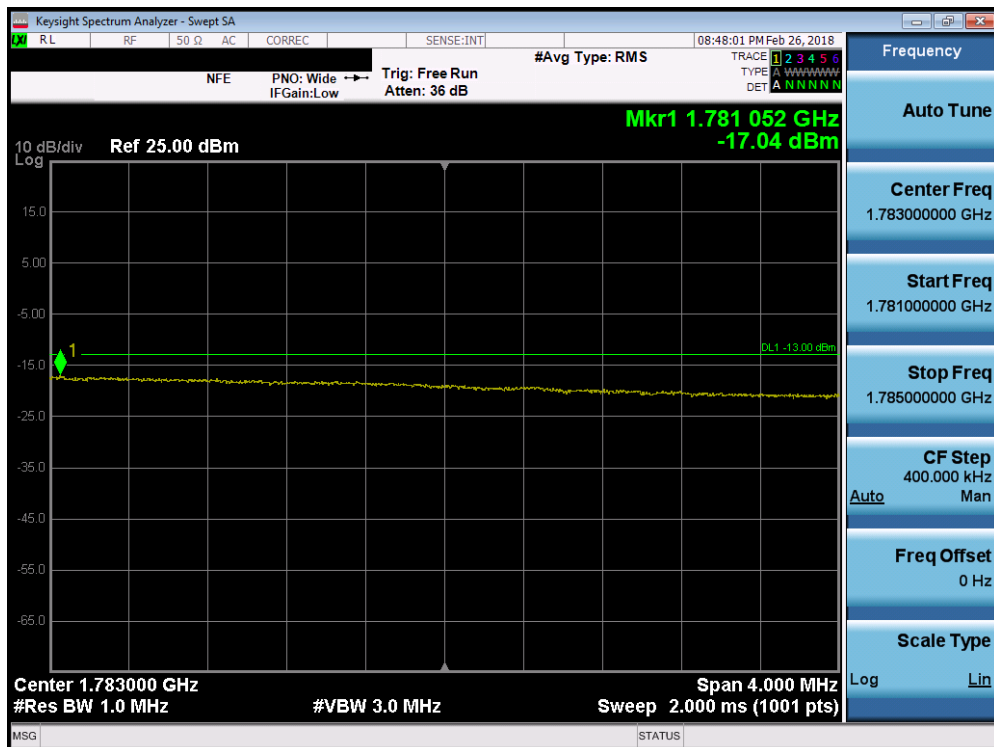


Plot 7-160. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 102 of 184

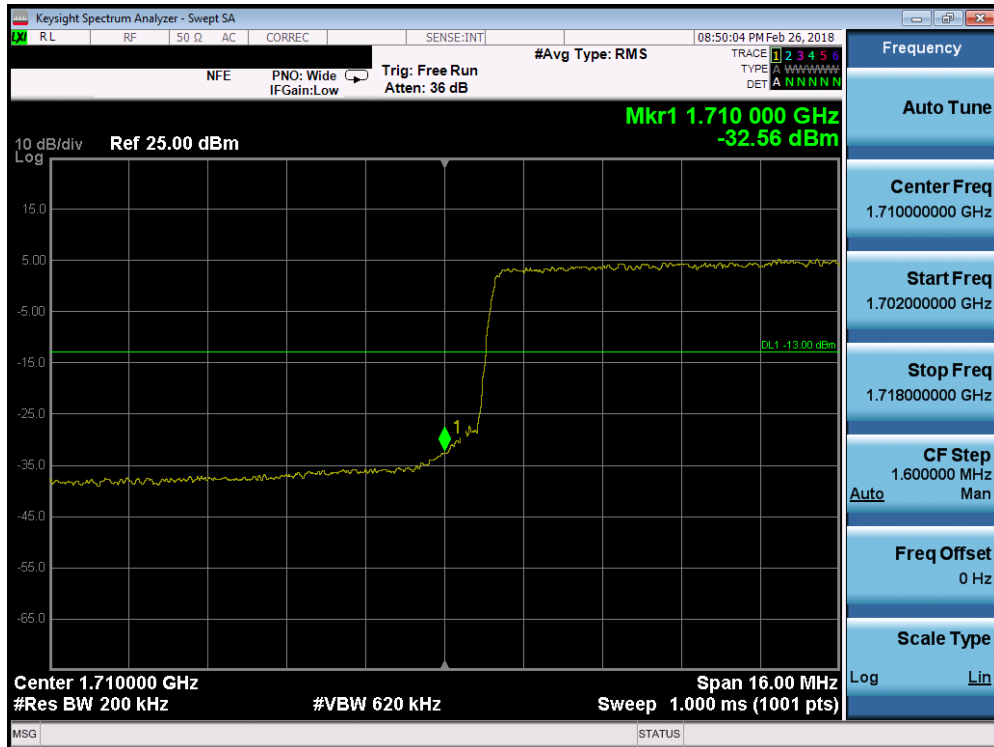


Plot 7-161. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

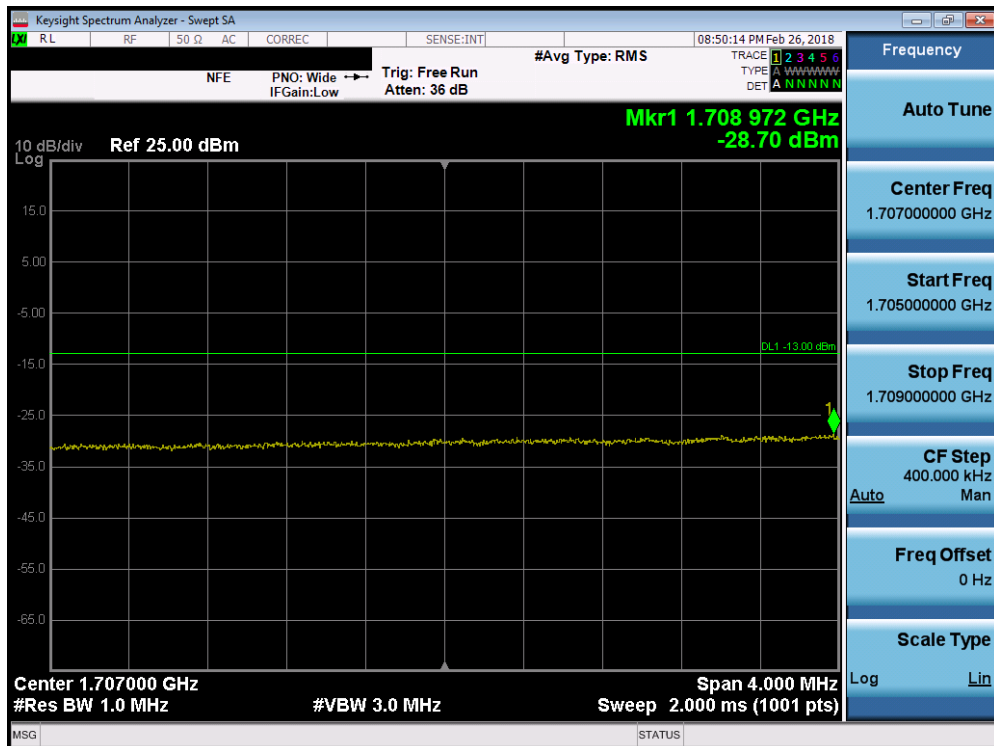


Plot 7-162. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 103 of 184



Plot 7-163. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

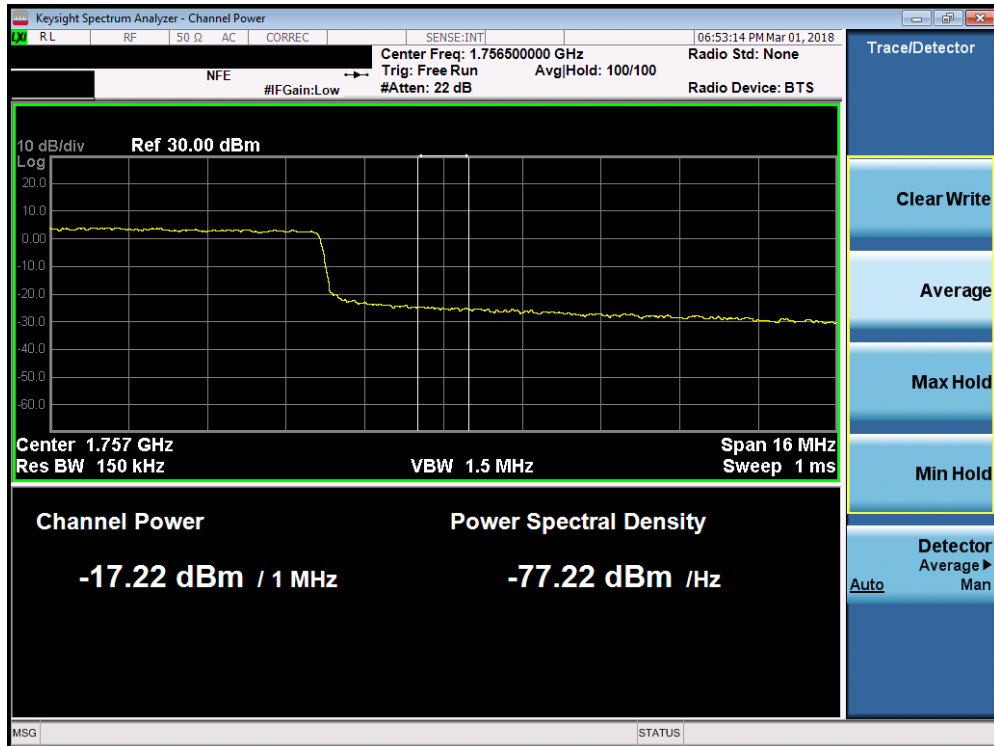


Plot 7-164. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
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Plot 7-165. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

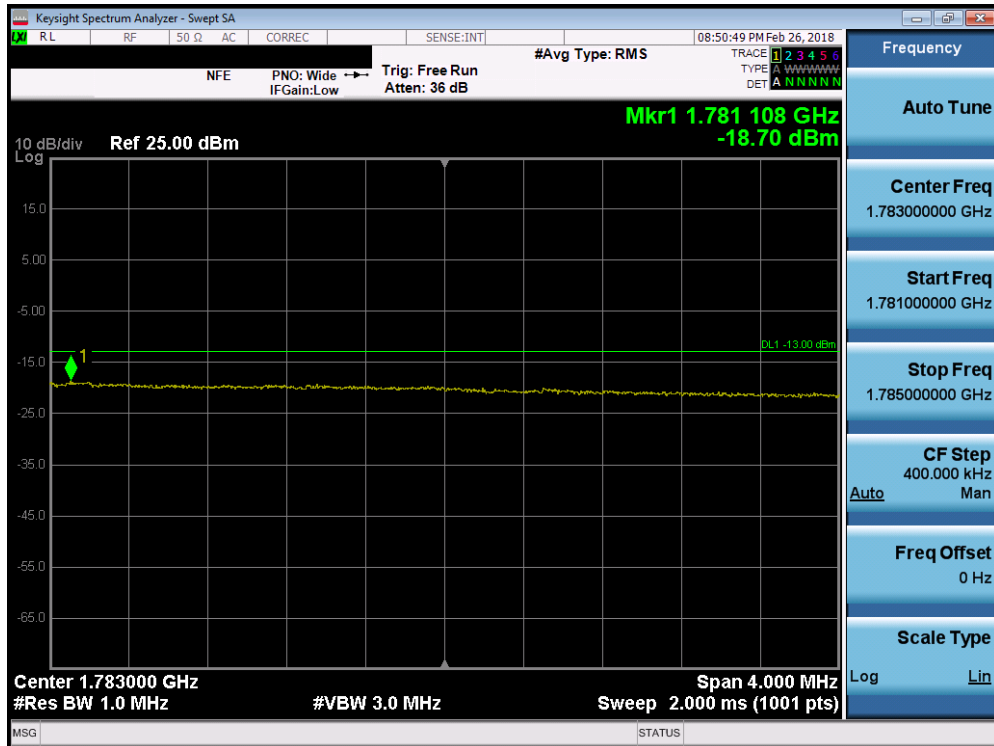


Plot 7-166. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 105 of 184

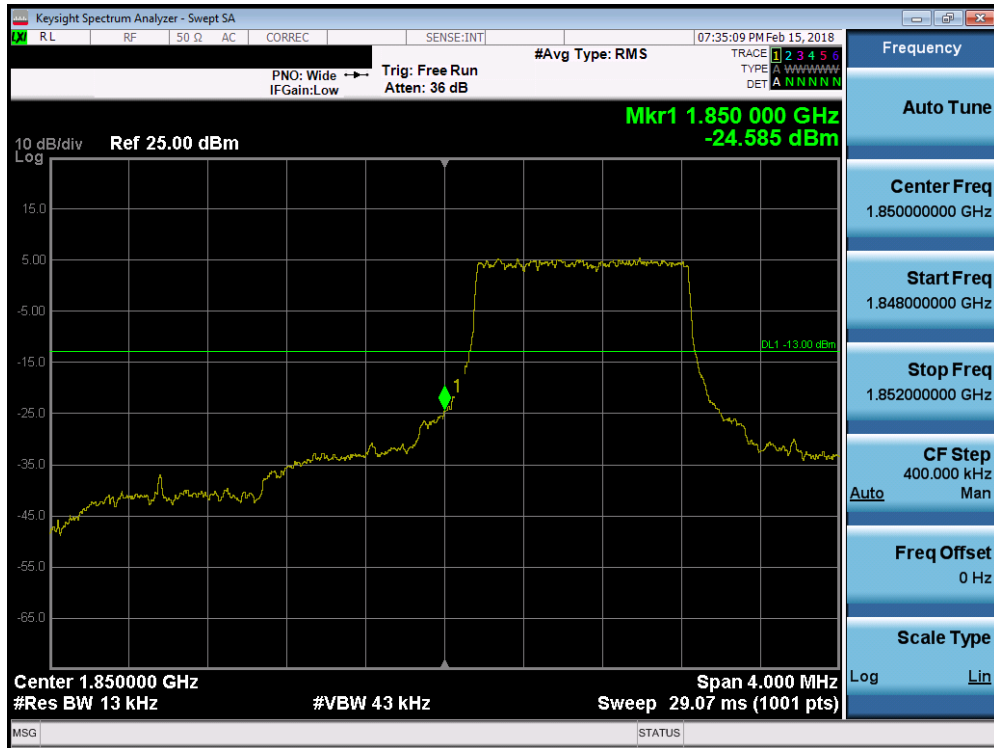


Plot 7-167. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

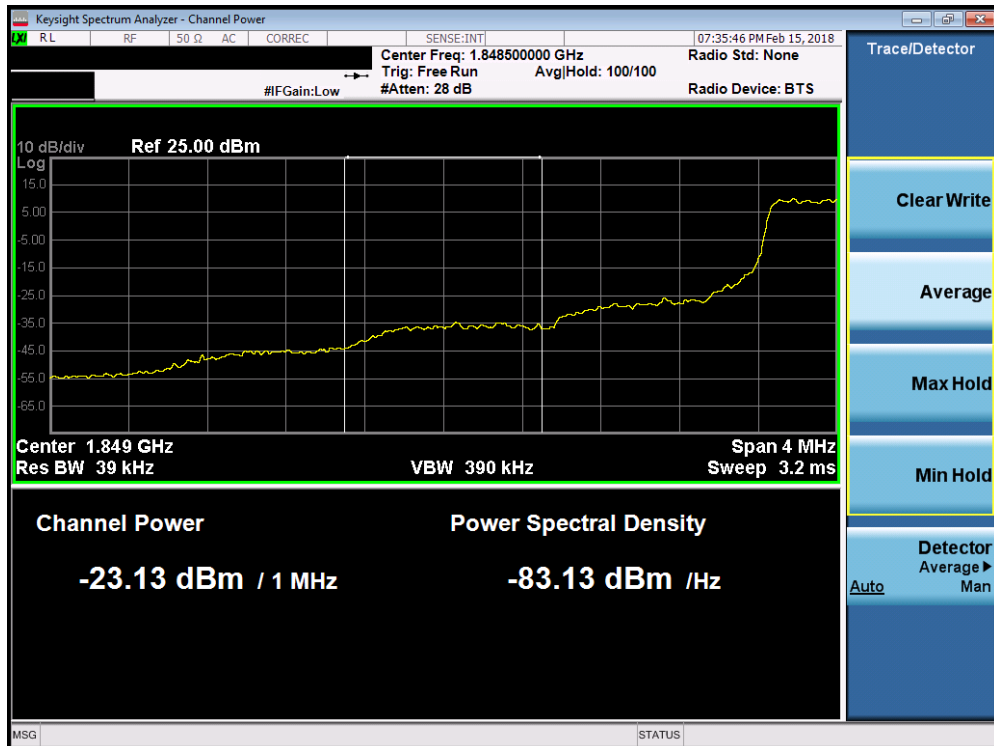


Plot 7-168. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
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Plot 7-169. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)



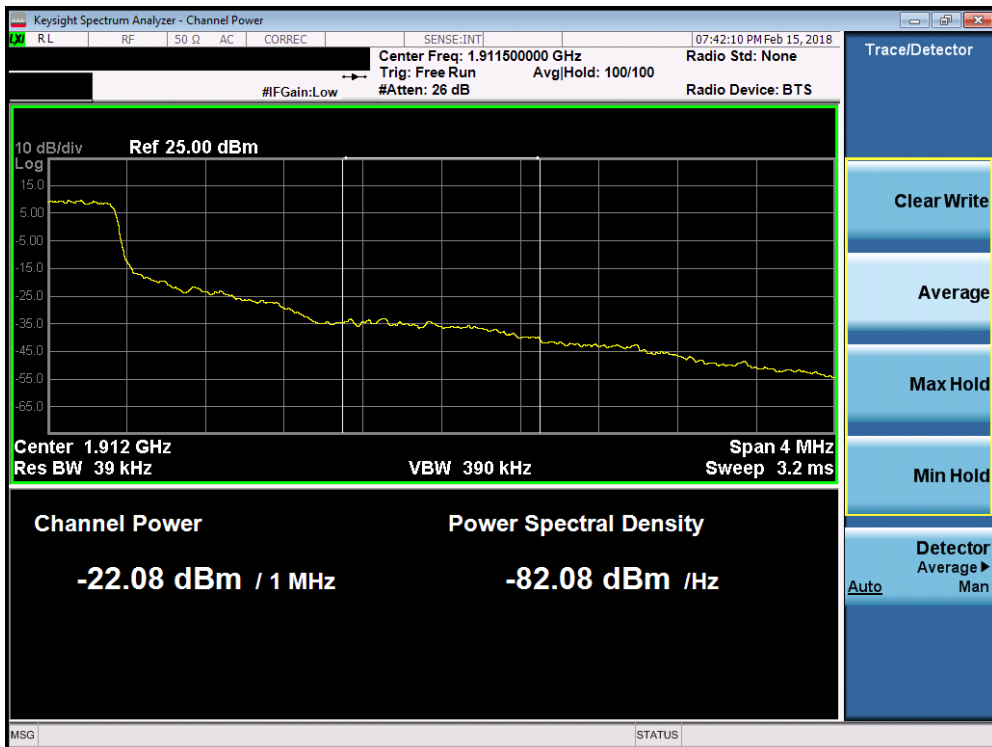
Plot 7-170. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 107 of 184



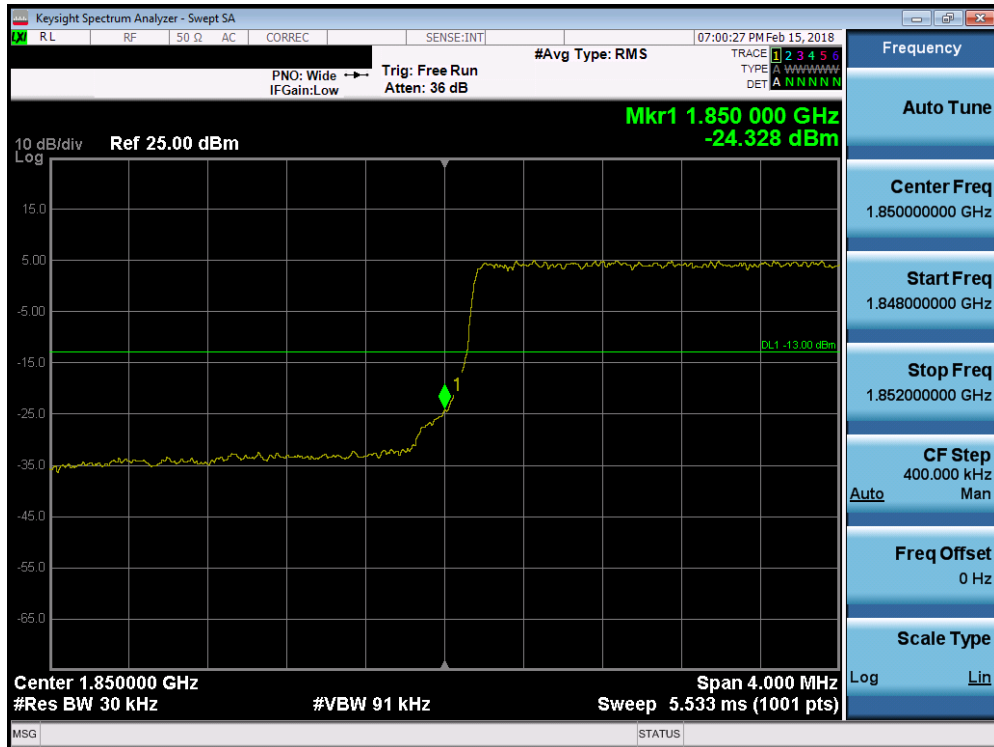


Plot 7-171. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

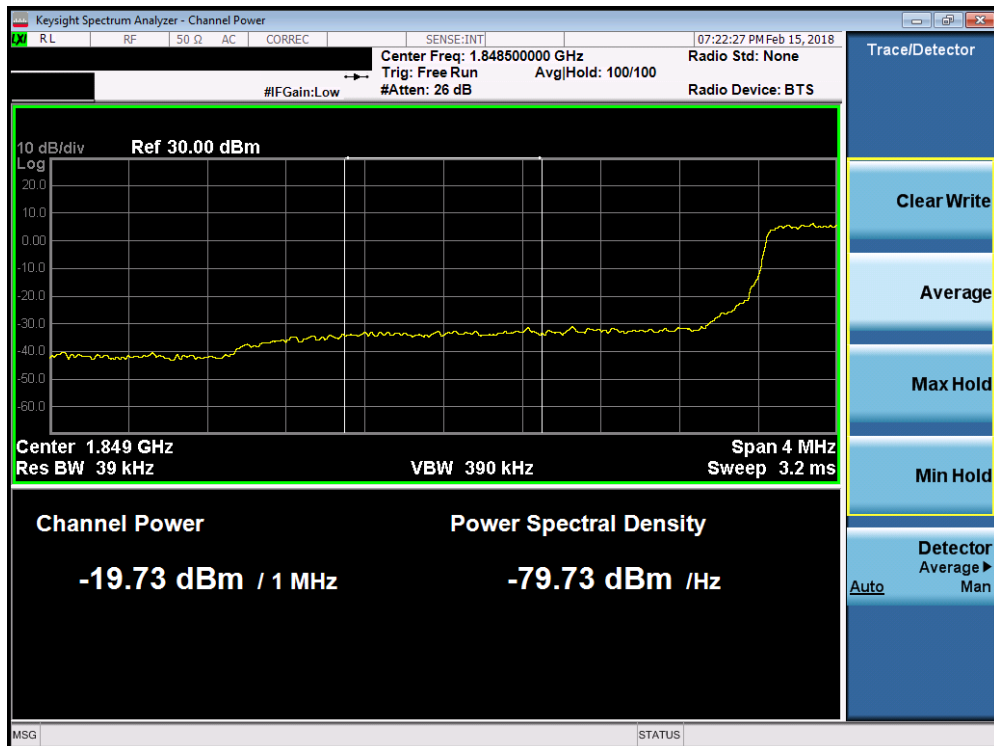


Plot 7-172. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 108 of 184

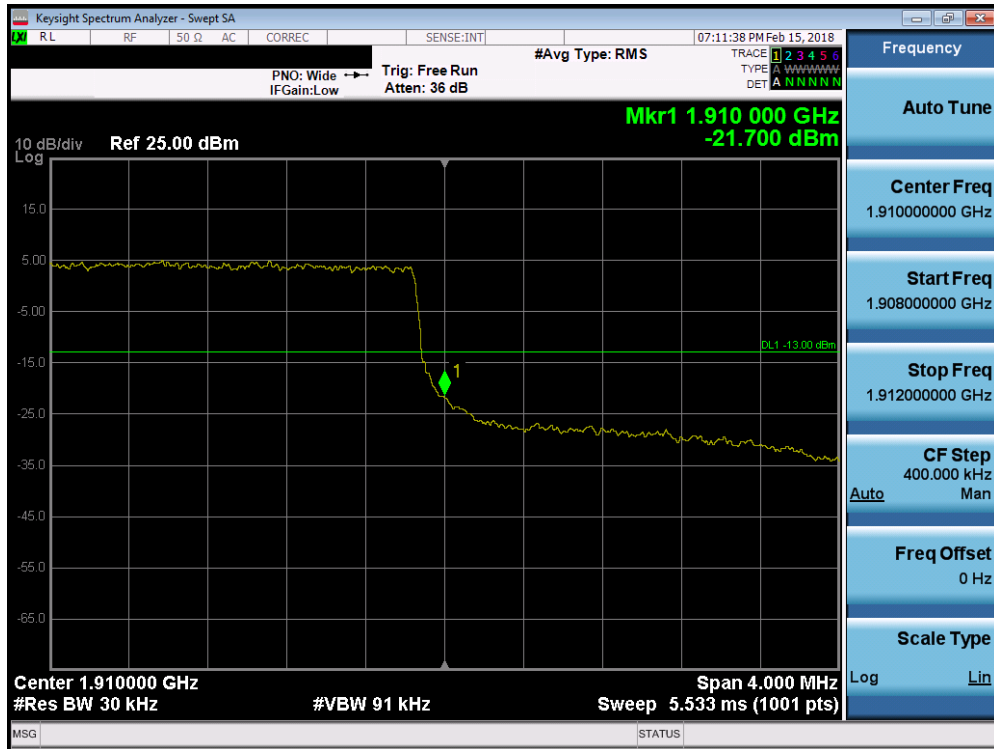


Plot 7-173. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

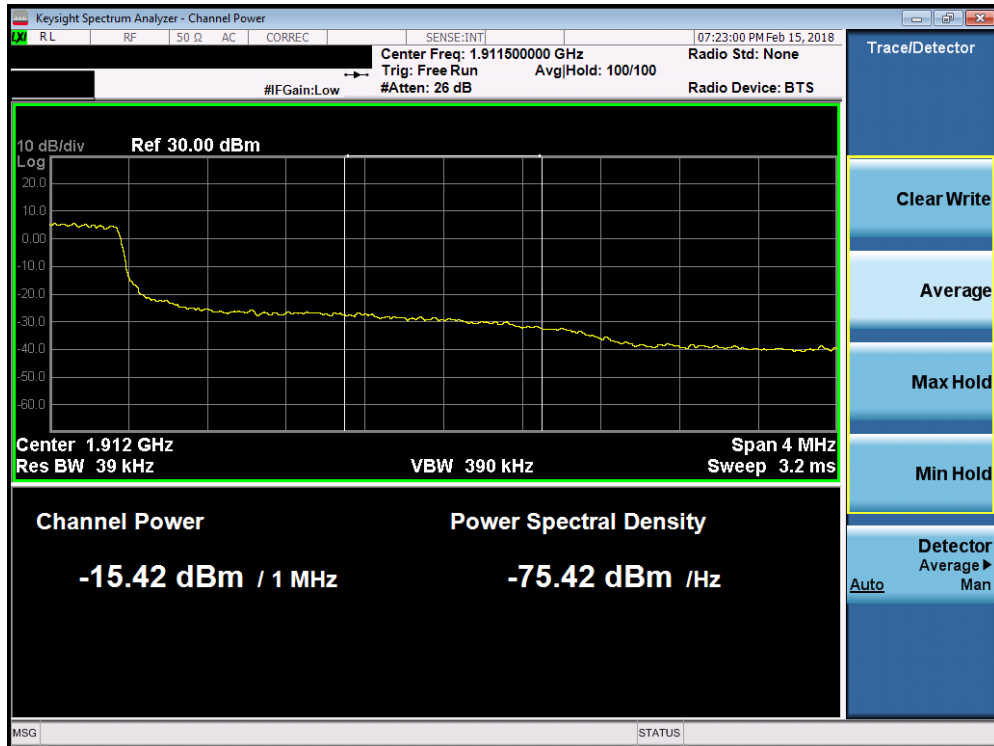


Plot 7-174. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 109 of 184

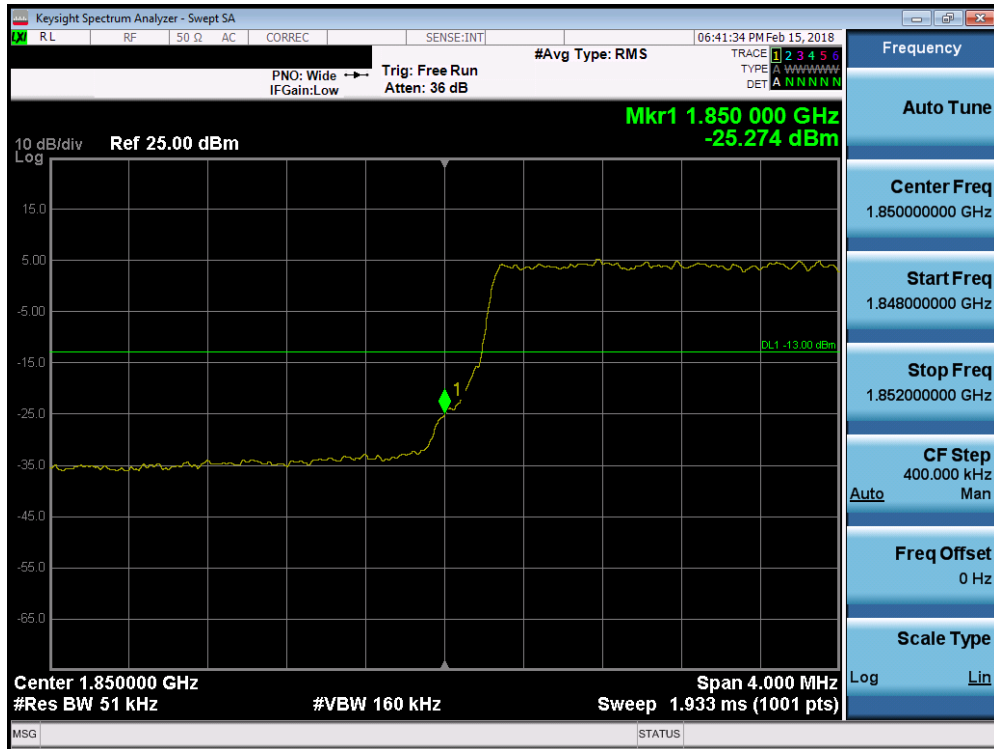


Plot 7-175. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

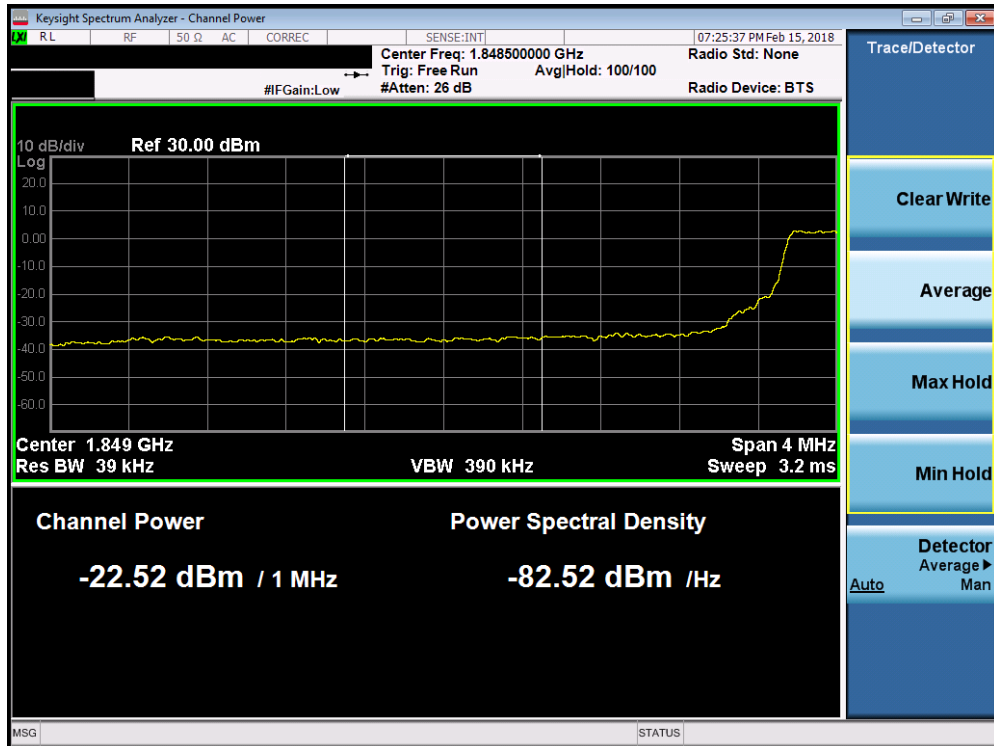


Plot 7-176. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 110 of 184

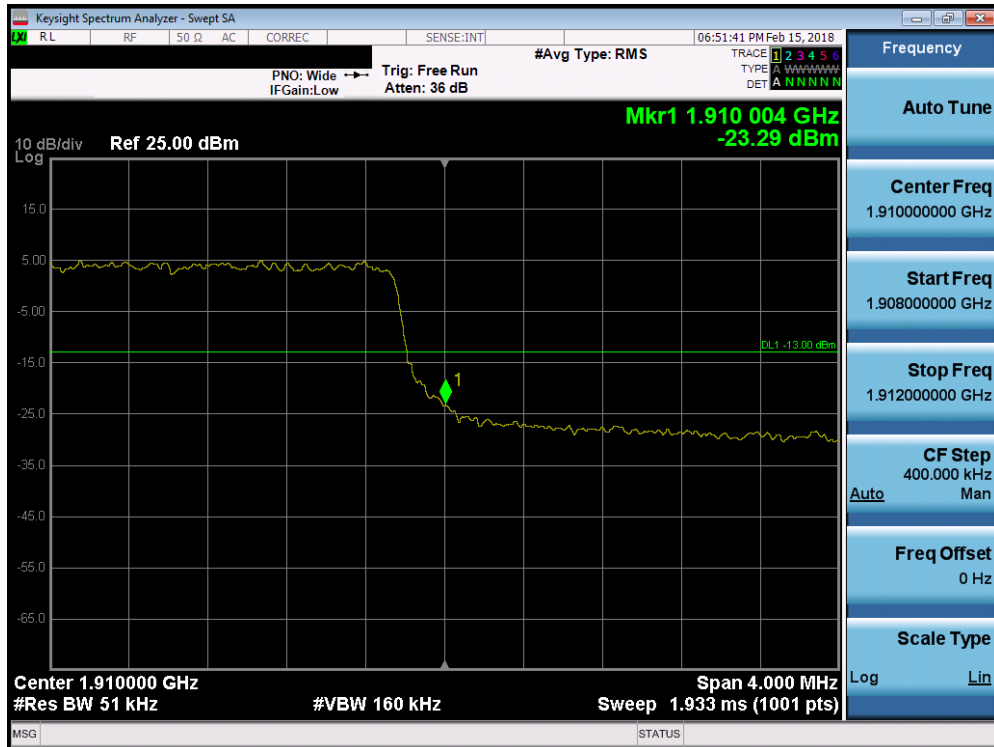


Plot 7-177. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

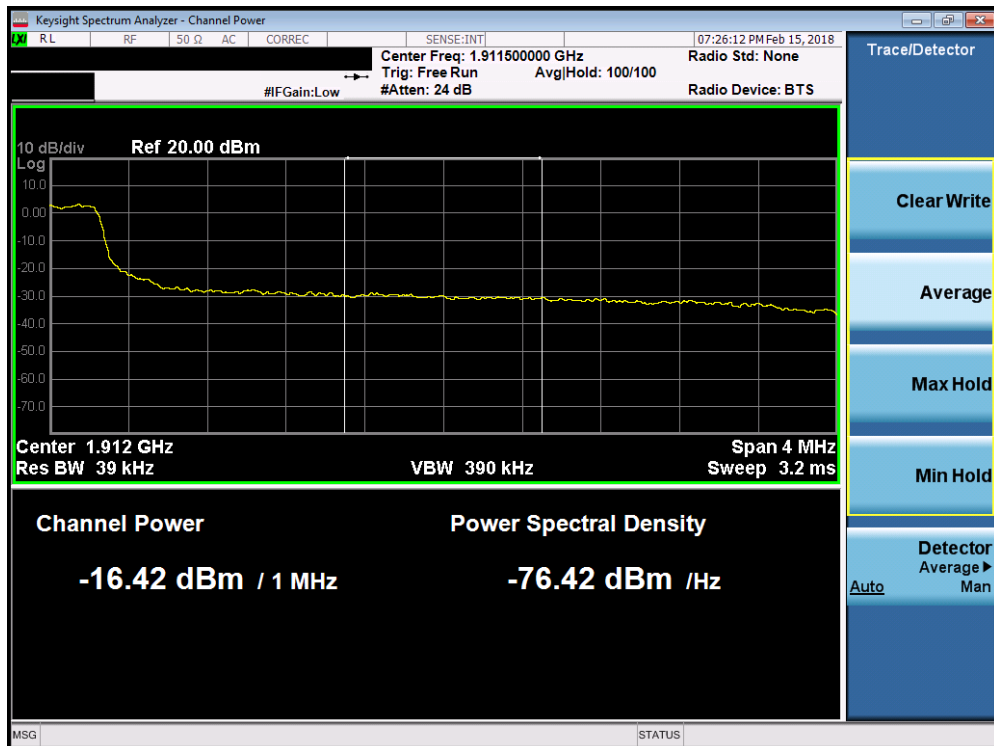


Plot 7-178. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 111 of 184

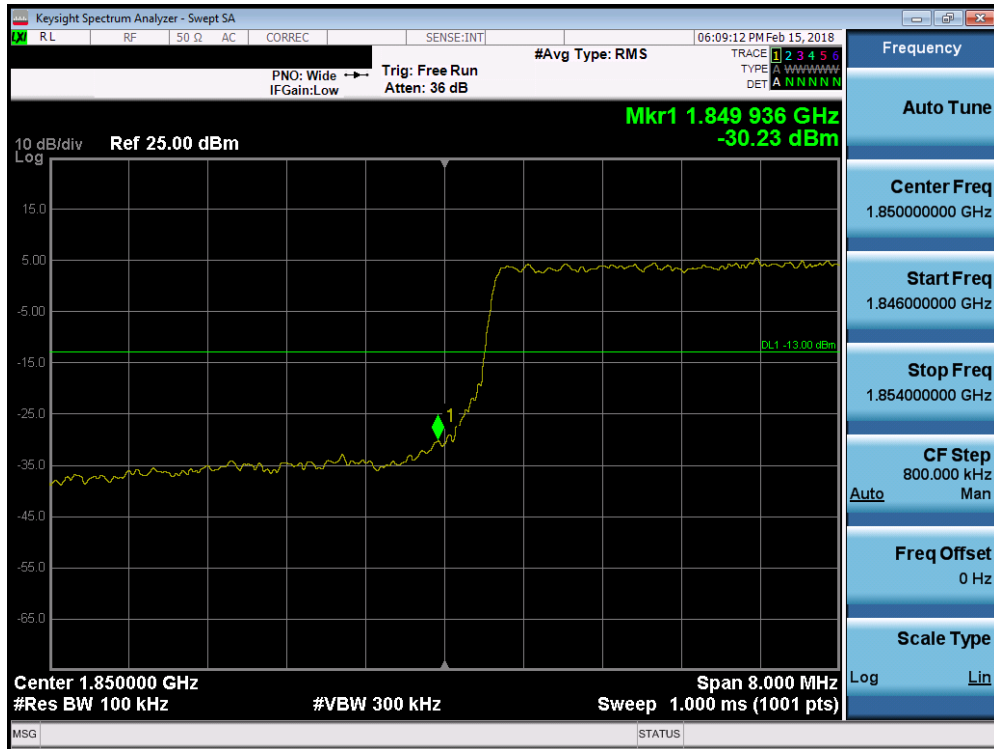


Plot 7-179. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

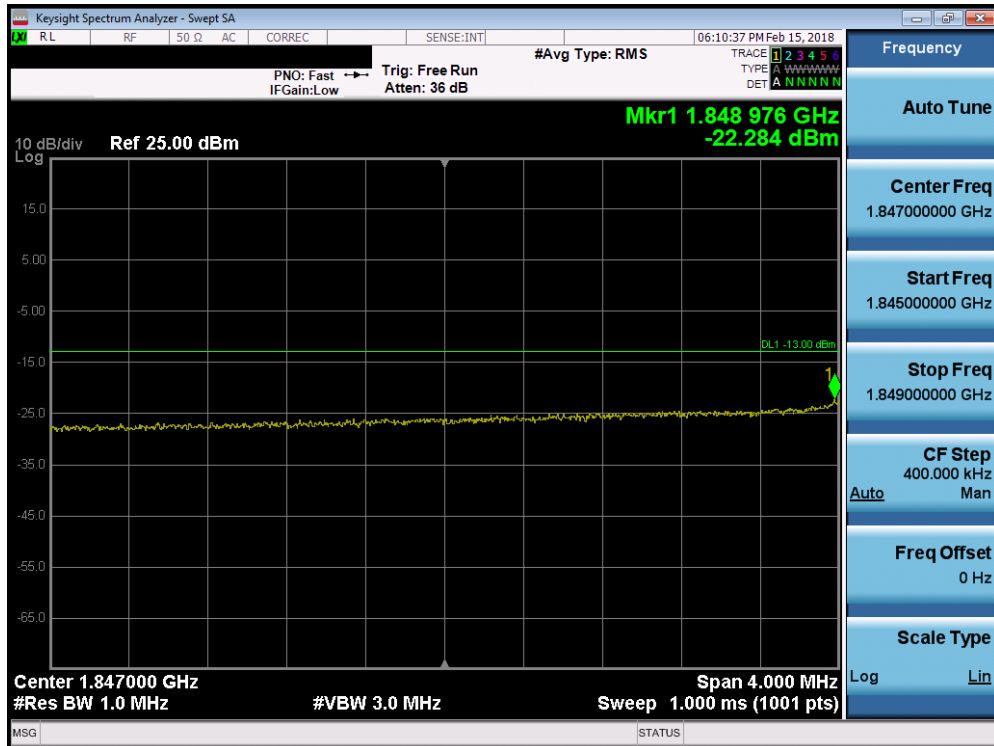


Plot 7-180. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 112 of 184



Plot 7-181. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

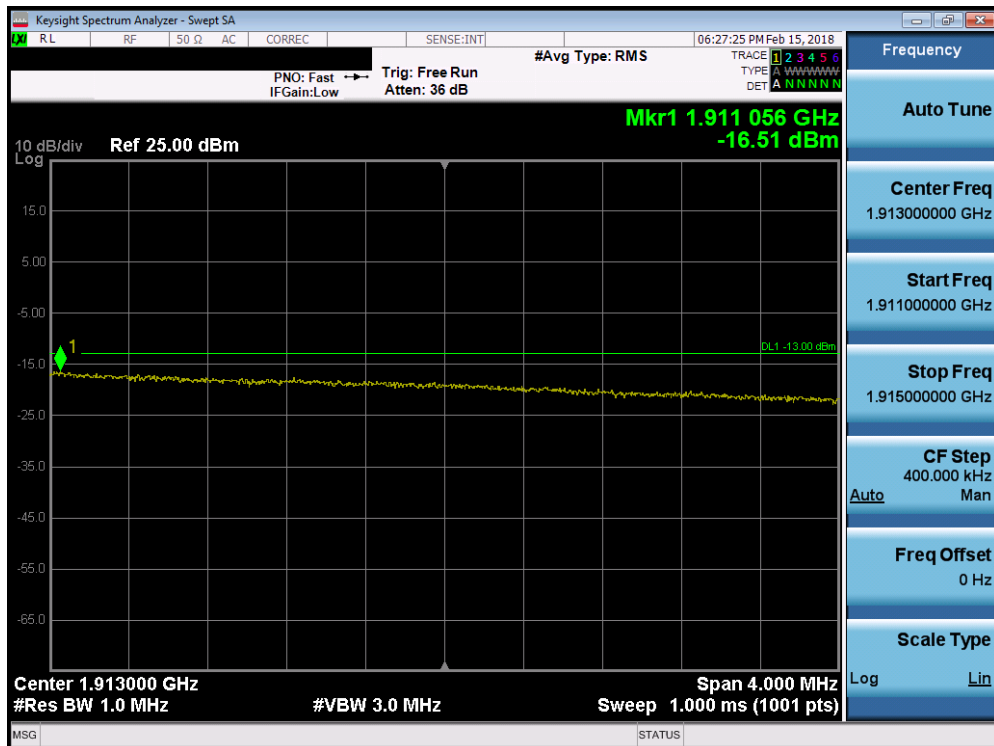


Plot 7-182. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 113 of 184	



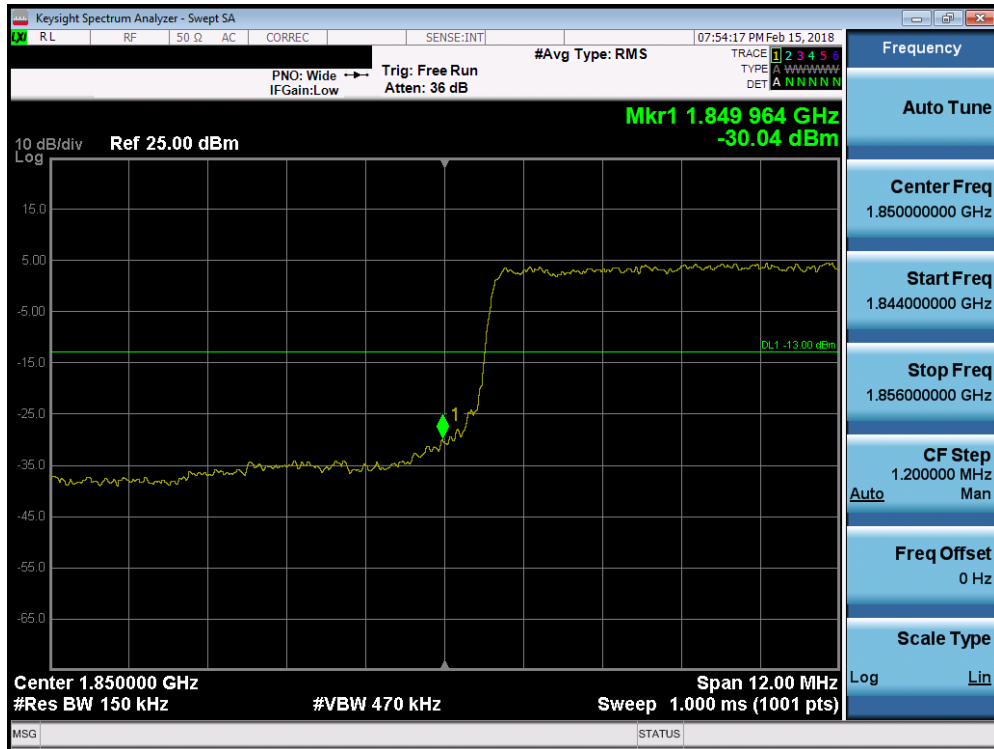
Plot 7-183. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



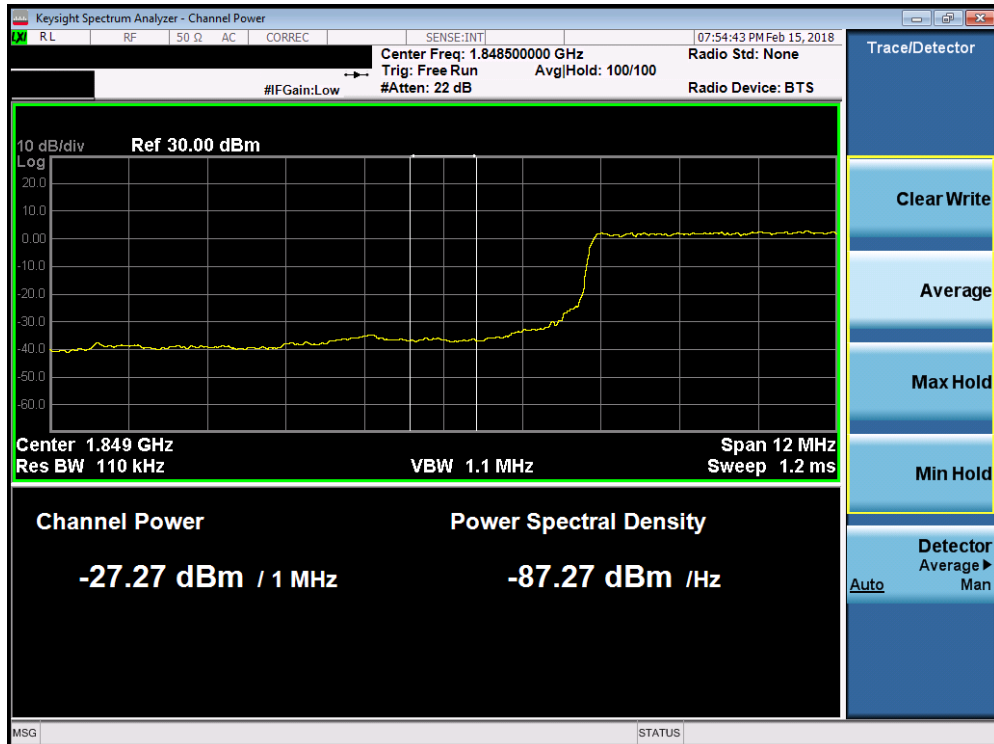
Plot 7-184. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 114 of 184





Plot 7-185. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

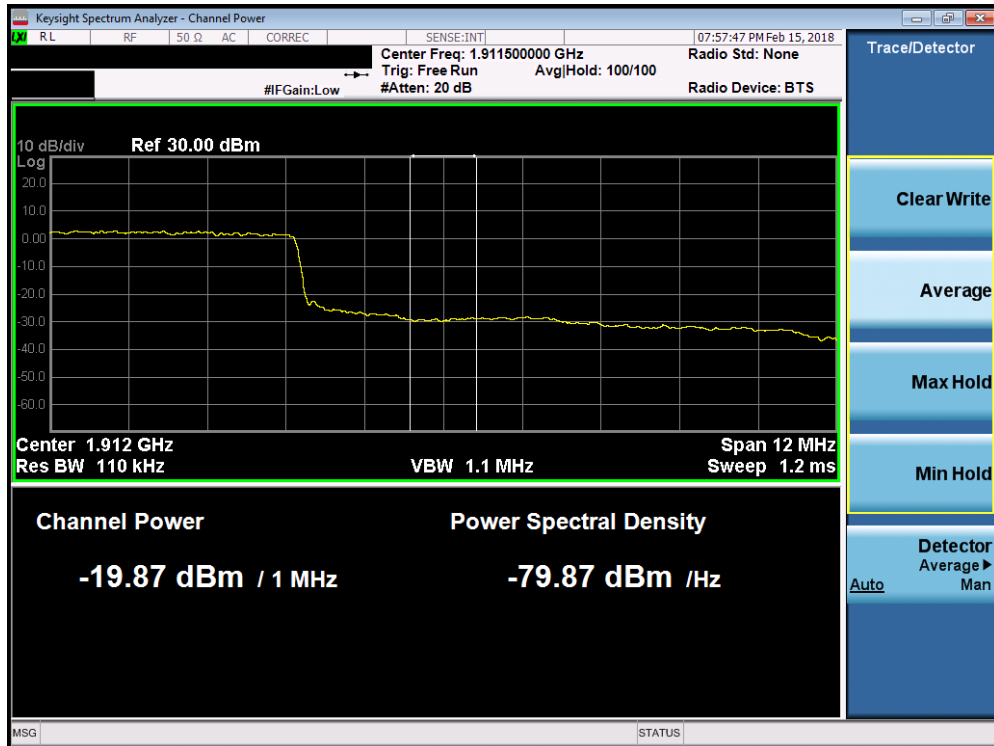


Plot 7-186. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 115 of 184

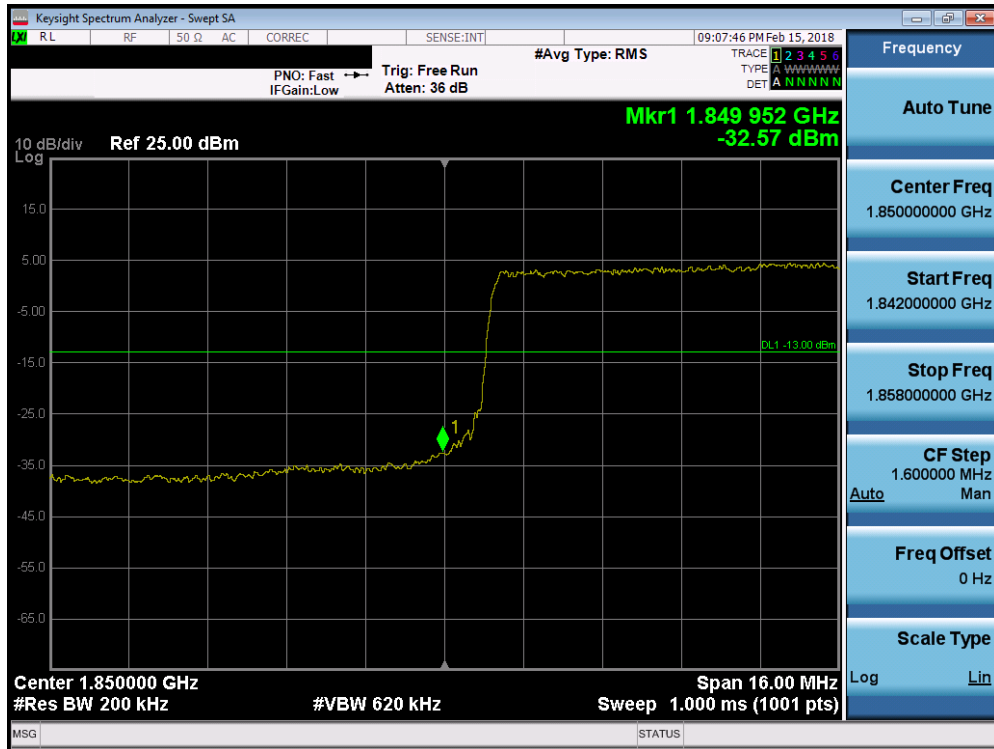


Plot 7-187. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

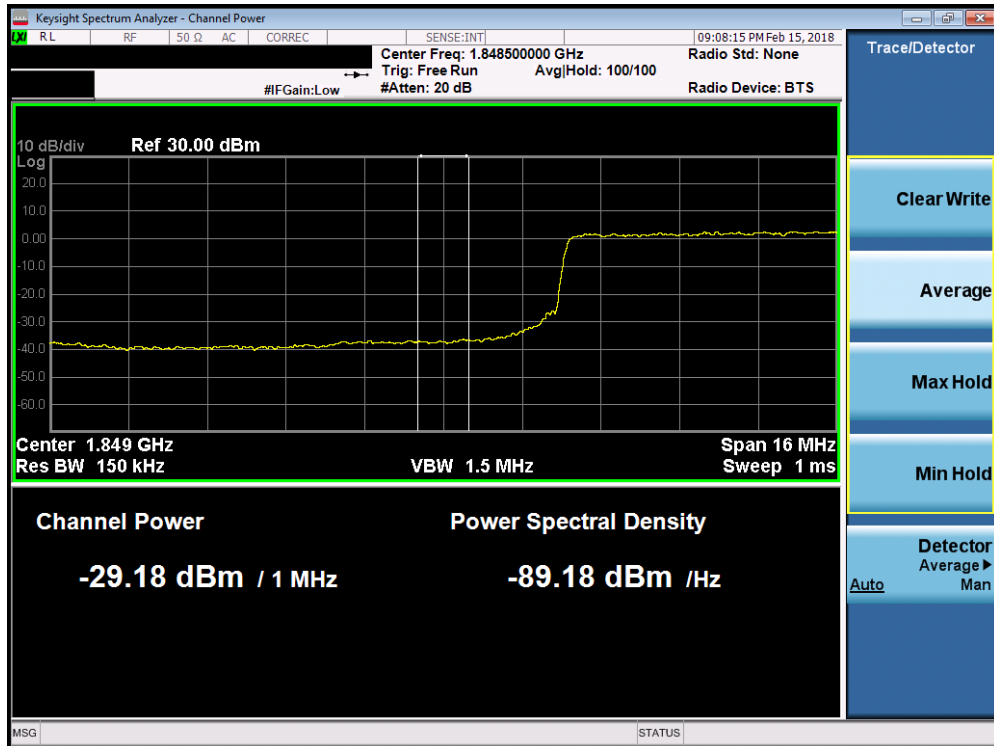


Plot 7-188. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 116 of 184



Plot 7-189. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

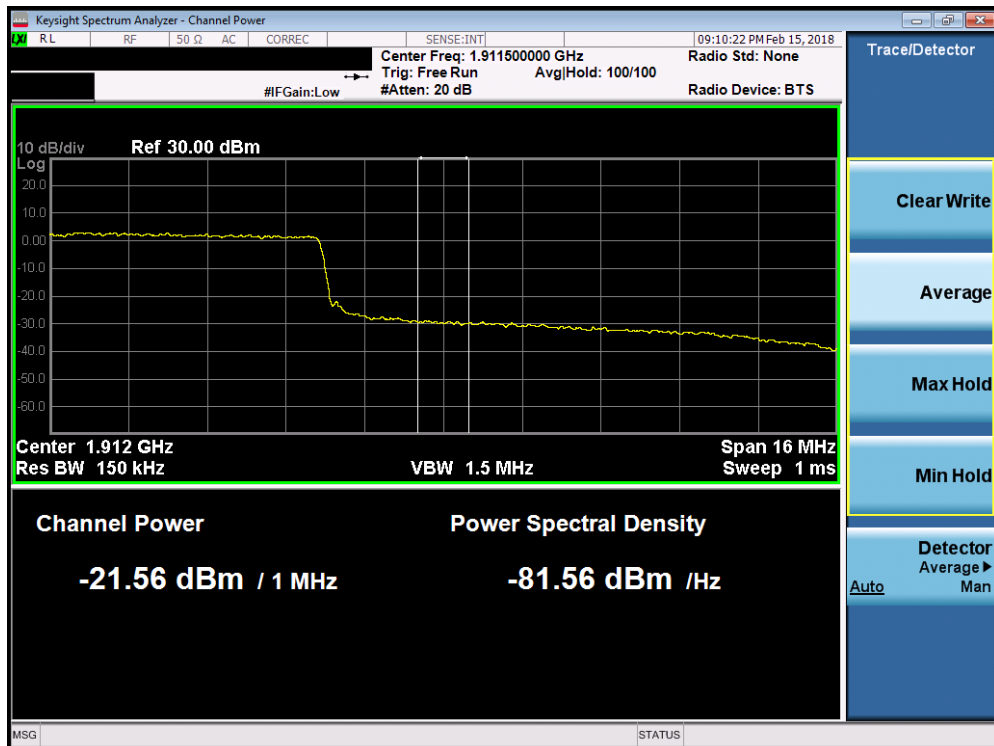


Plot 7-190. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 117 of 184

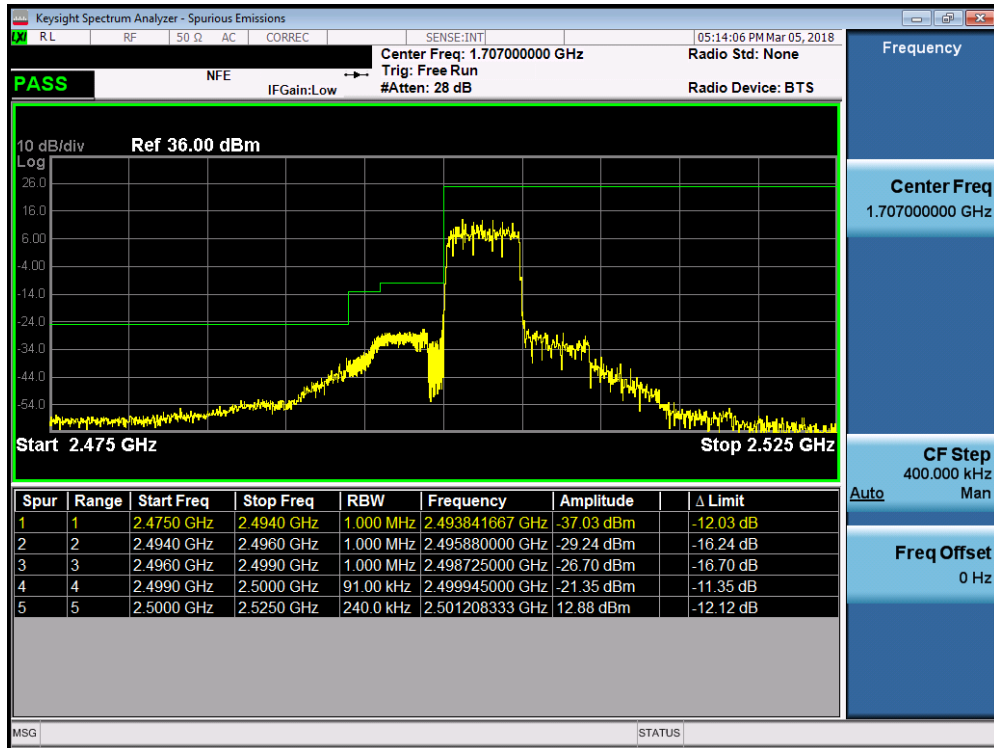


Plot 7-191. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

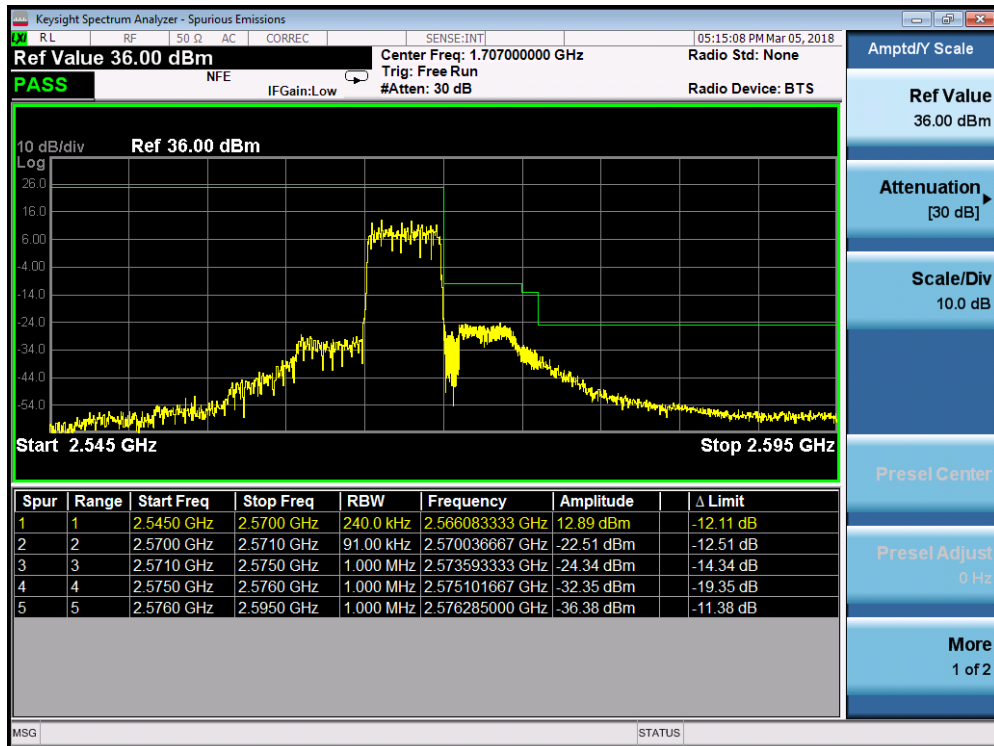


Plot 7-192. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 118 of 184

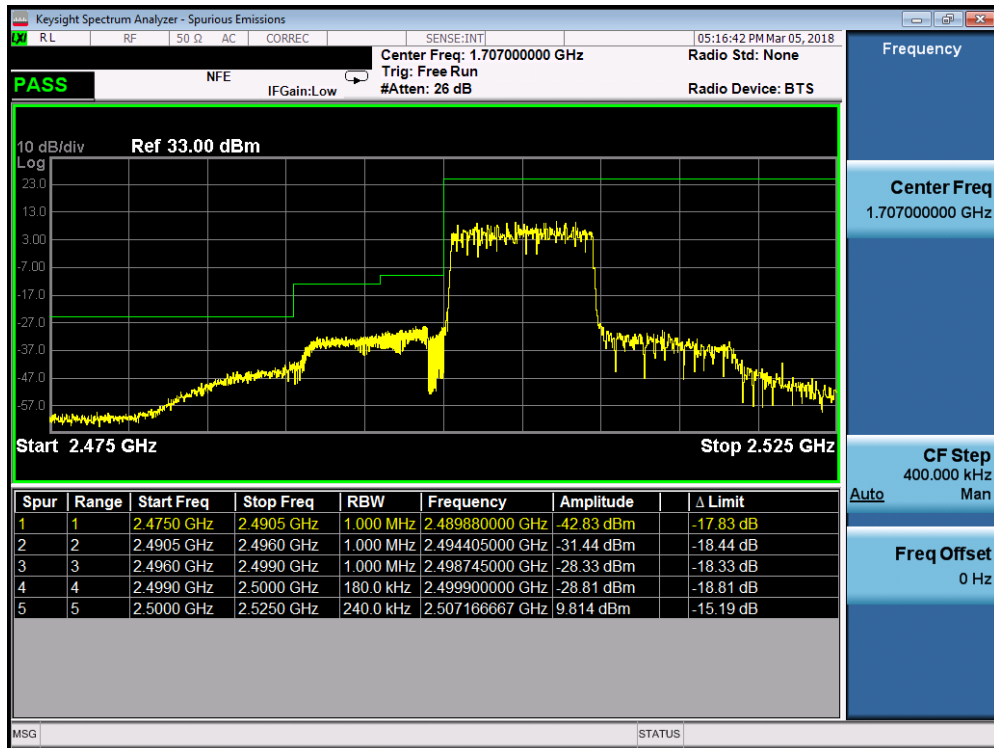


Plot 7-193. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

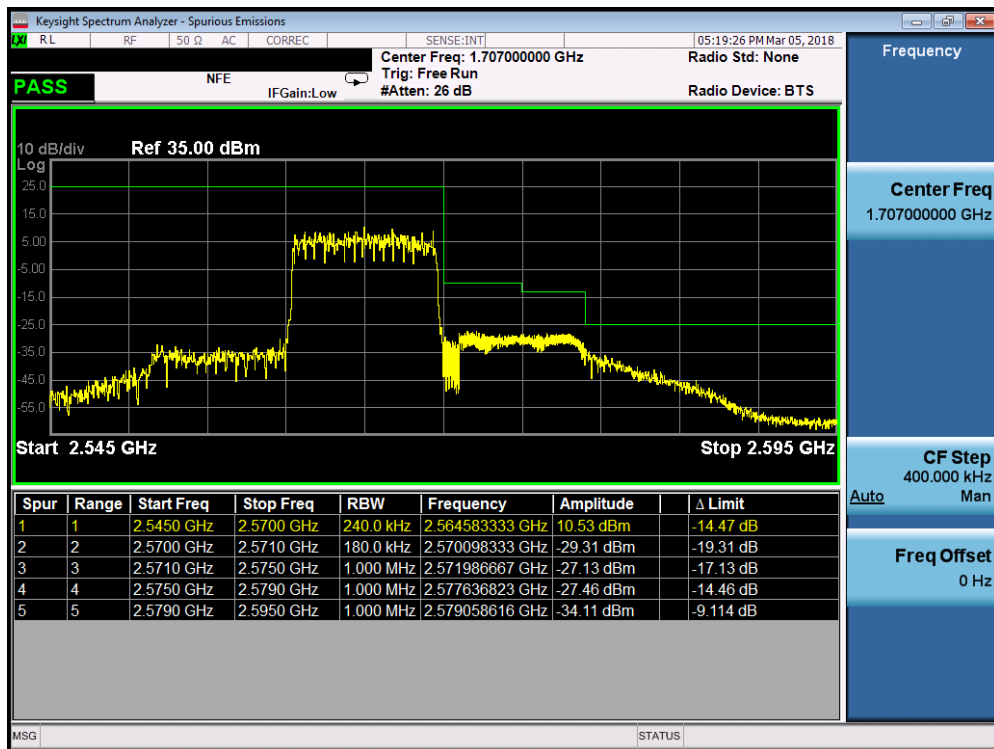


Plot 7-194. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 119 of 184

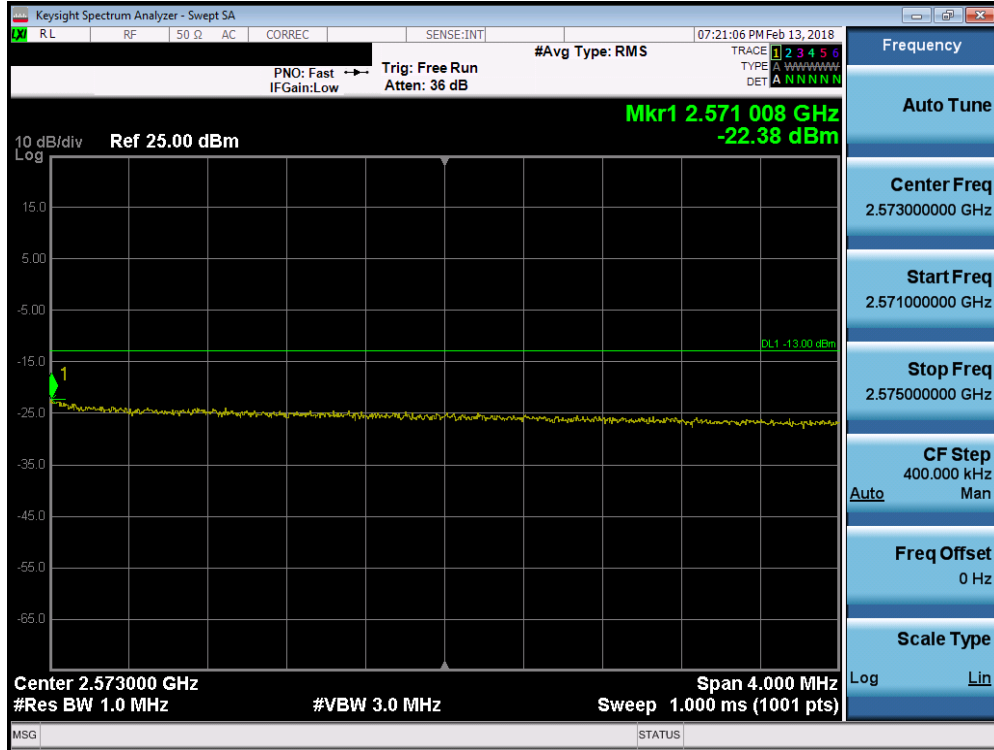


Plot 7-195. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

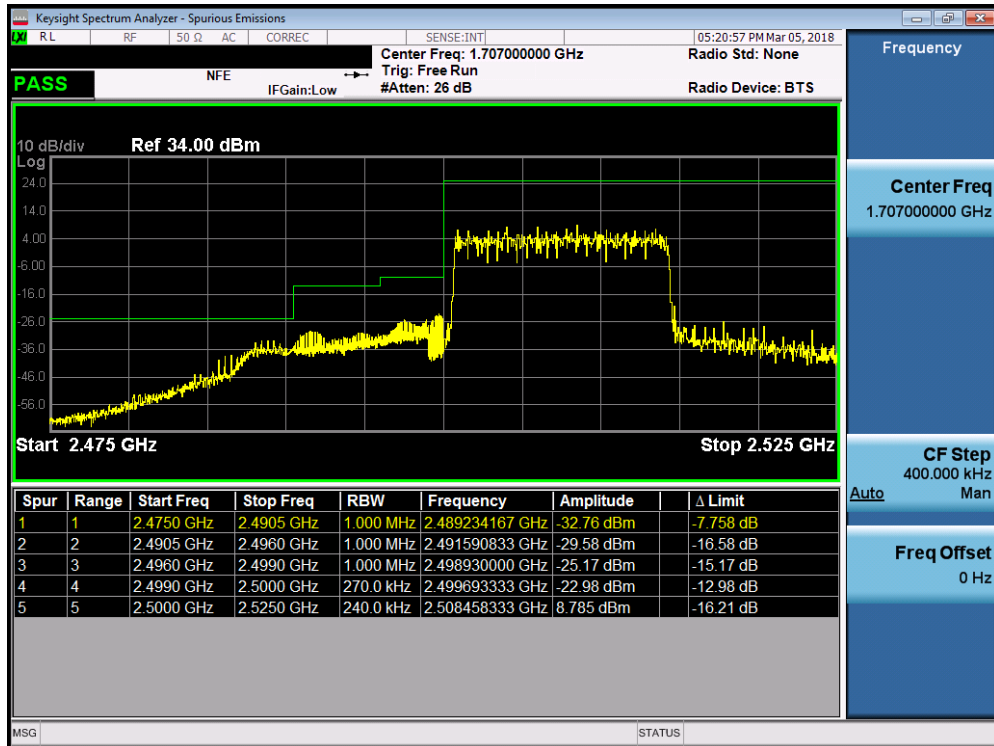


Plot 7-196. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 120 of 184



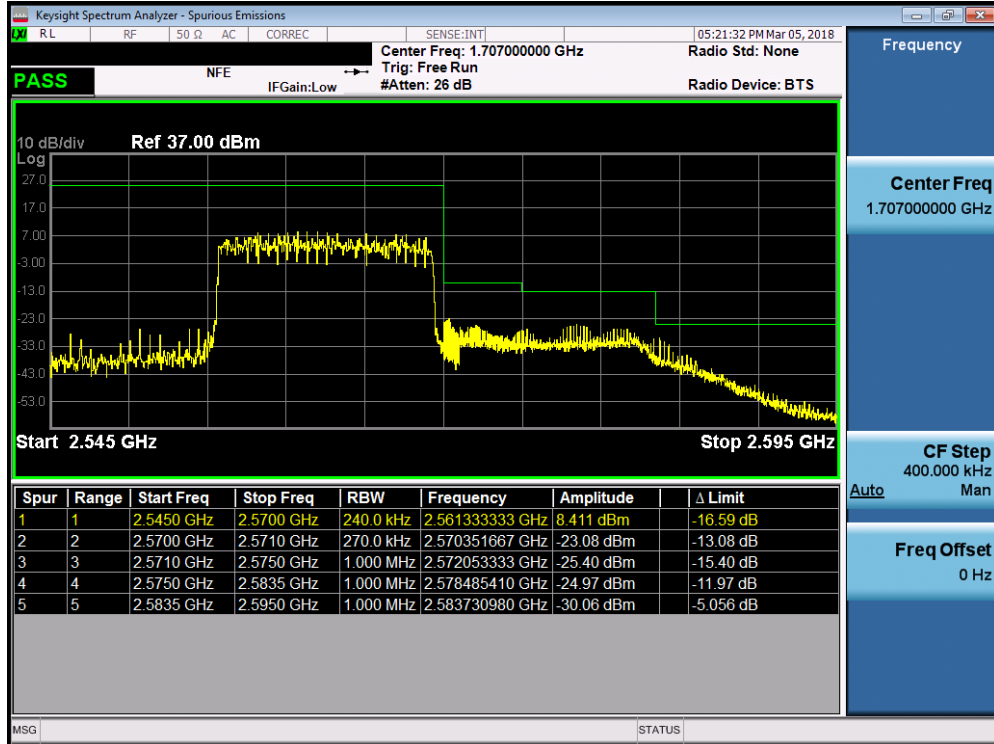
Plot 7-197. Upper Extended Band Edge Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)



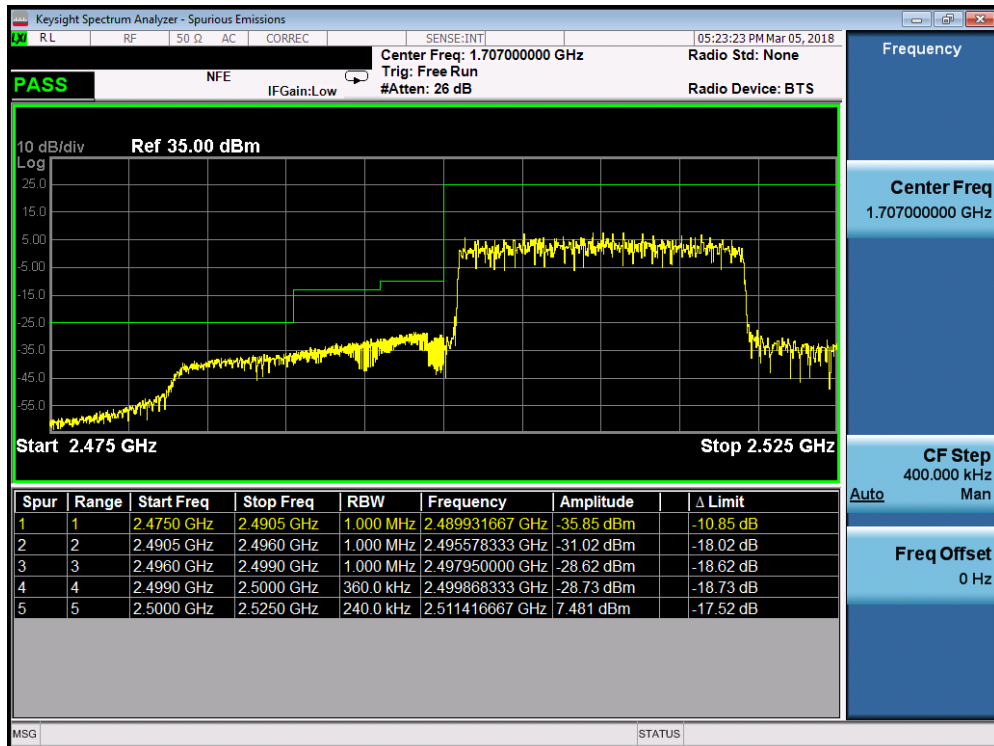
Plot 7-198. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 121 of 184



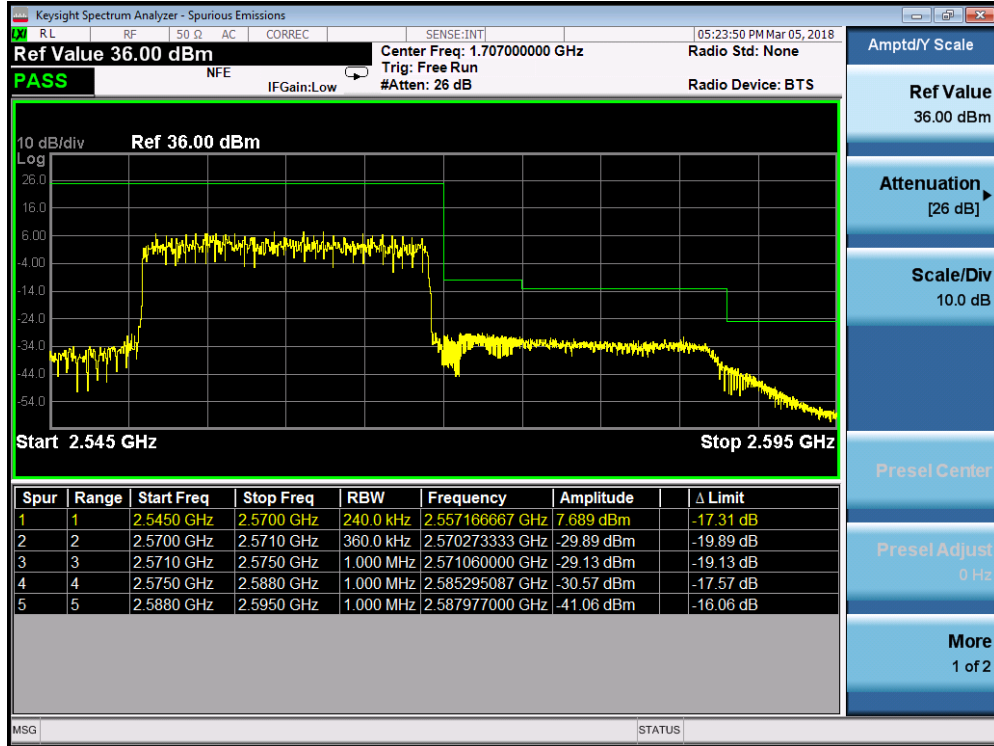


Plot 7-199. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-200. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 122 of 184



Plot 7-201. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT</b> (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 123 of 184

## 7.5 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

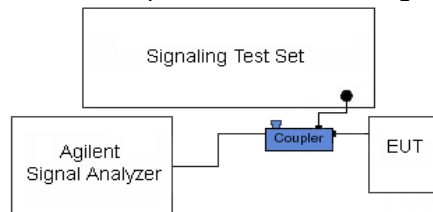
KDB 971168 D01 v03 – Section 5.7.1

### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
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.

### Test Setup

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

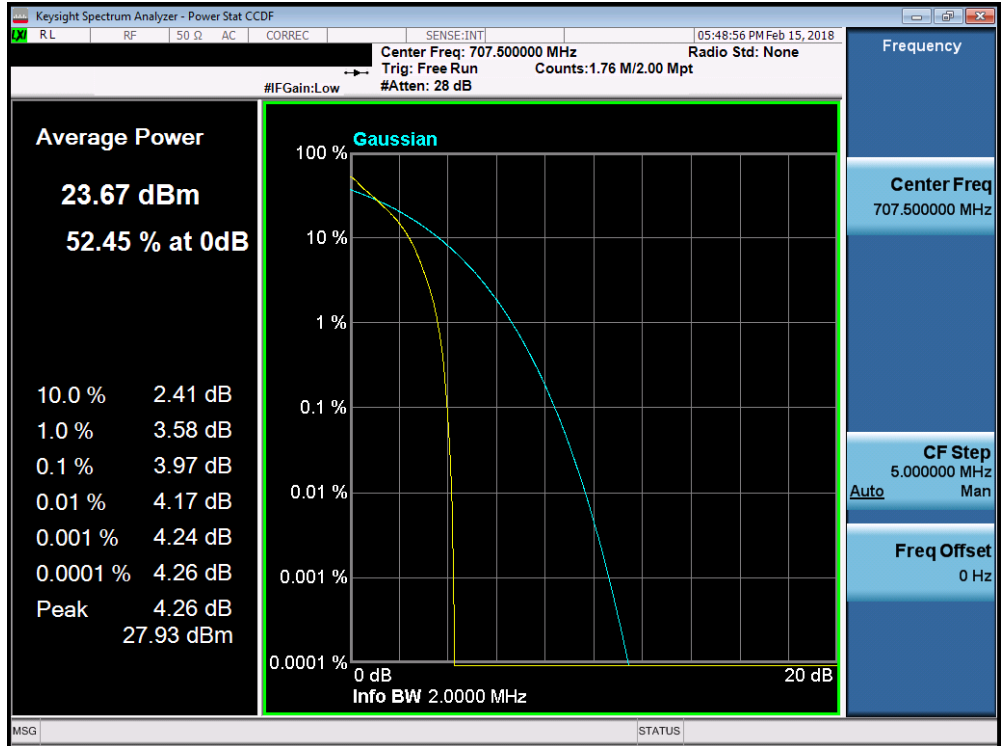


**Figure 7-4. Test Instrument & Measurement Setup**

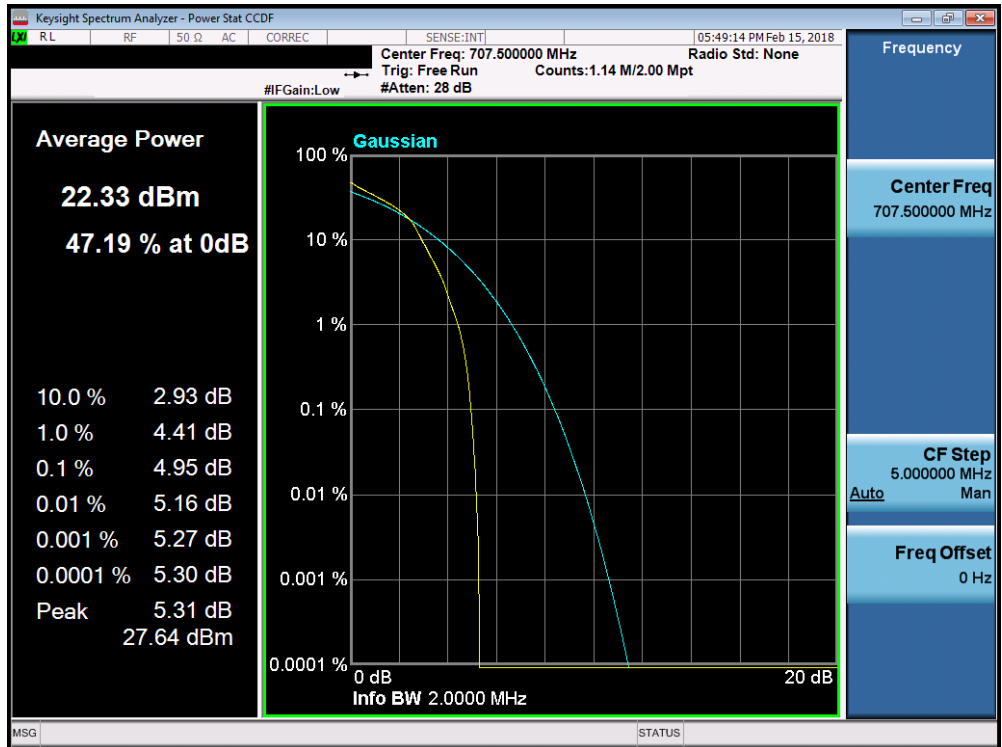
### Test Notes

None.

FCC ID: ZNFX410TK	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
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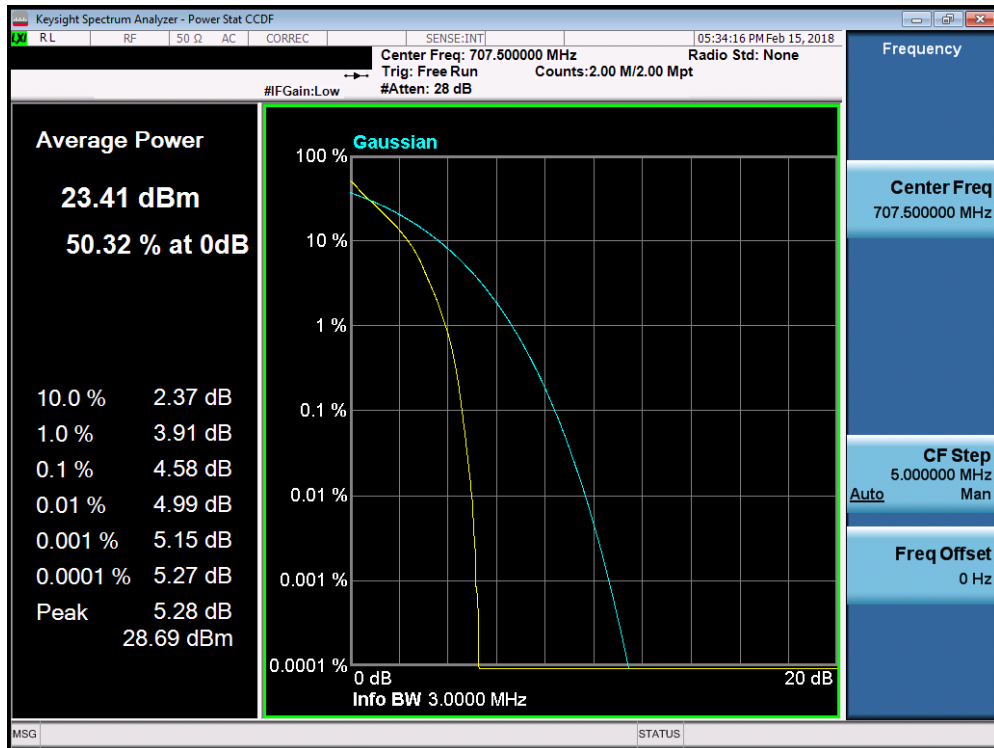


**Plot 7-202. PAR Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)**

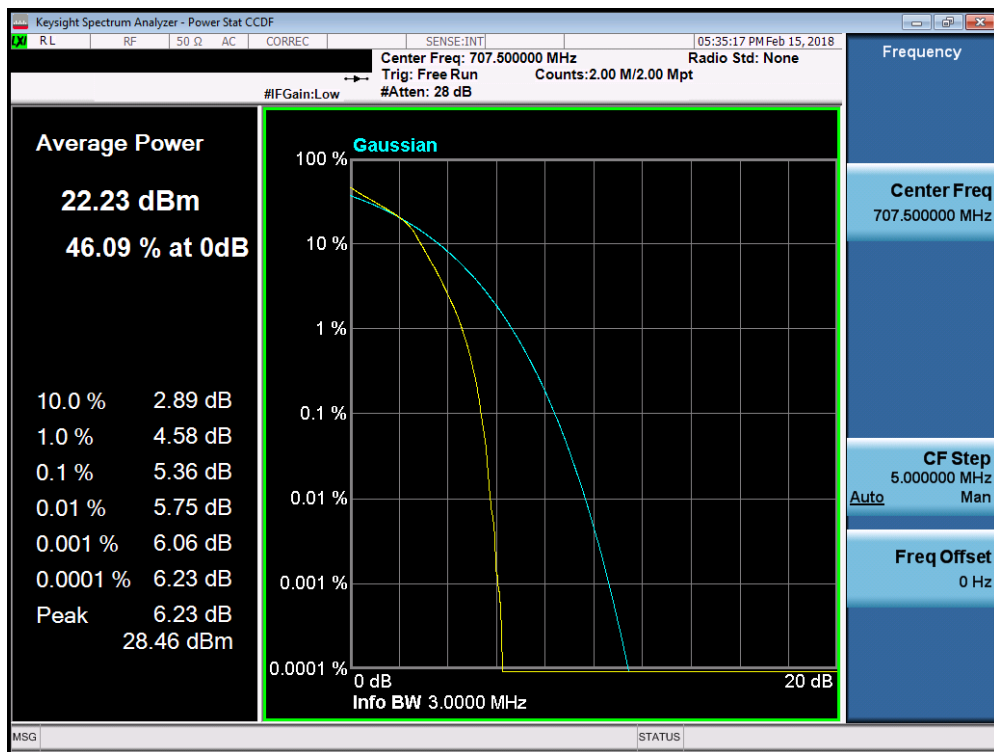


**Plot 7-203. PAR Plot (Band 12 - 1.4MHz 16-QAM - Full RB Configuration)**

FCC ID: ZNFX410TK		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 125 of 184

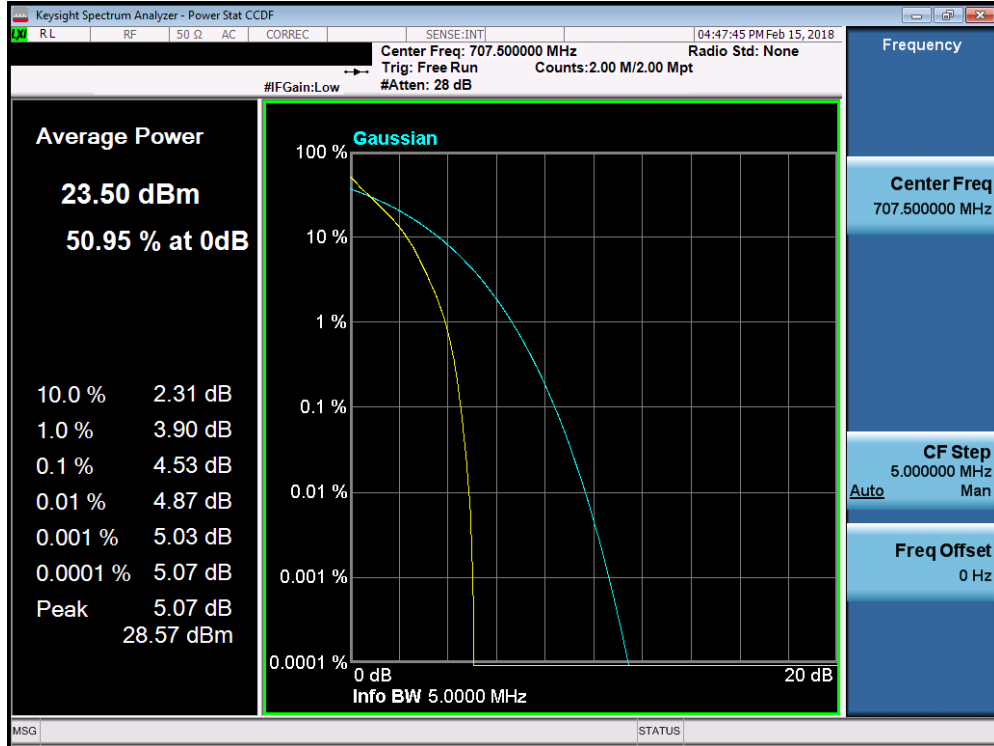


Plot 7-204. PAR Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

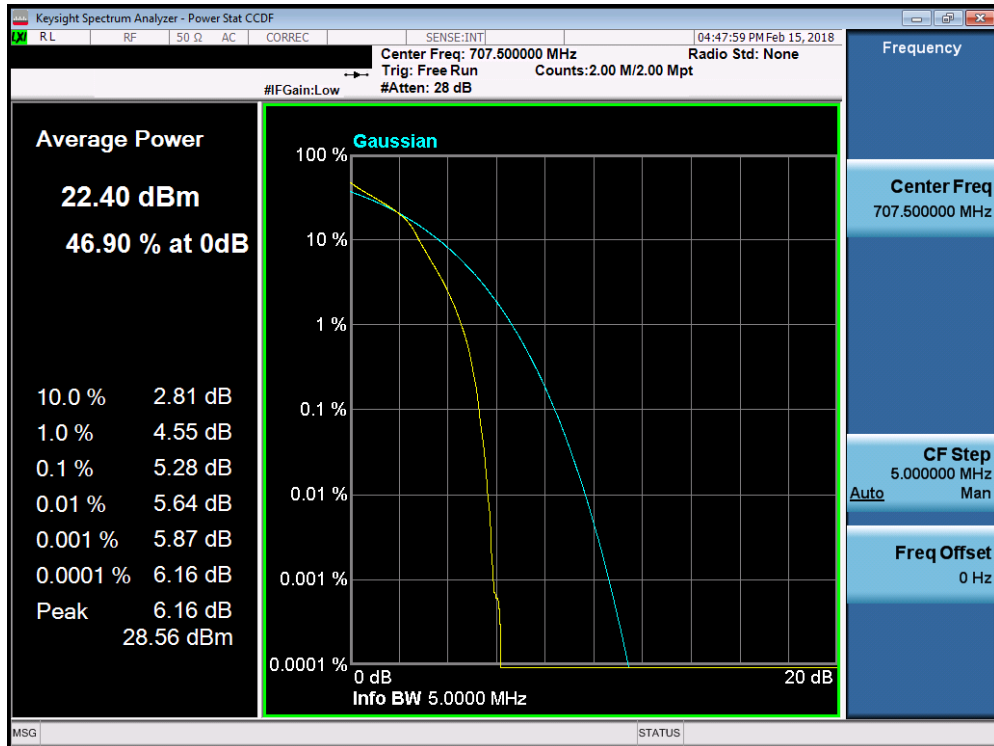


Plot 7-205. PAR Plot (Band 12 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 126 of 184

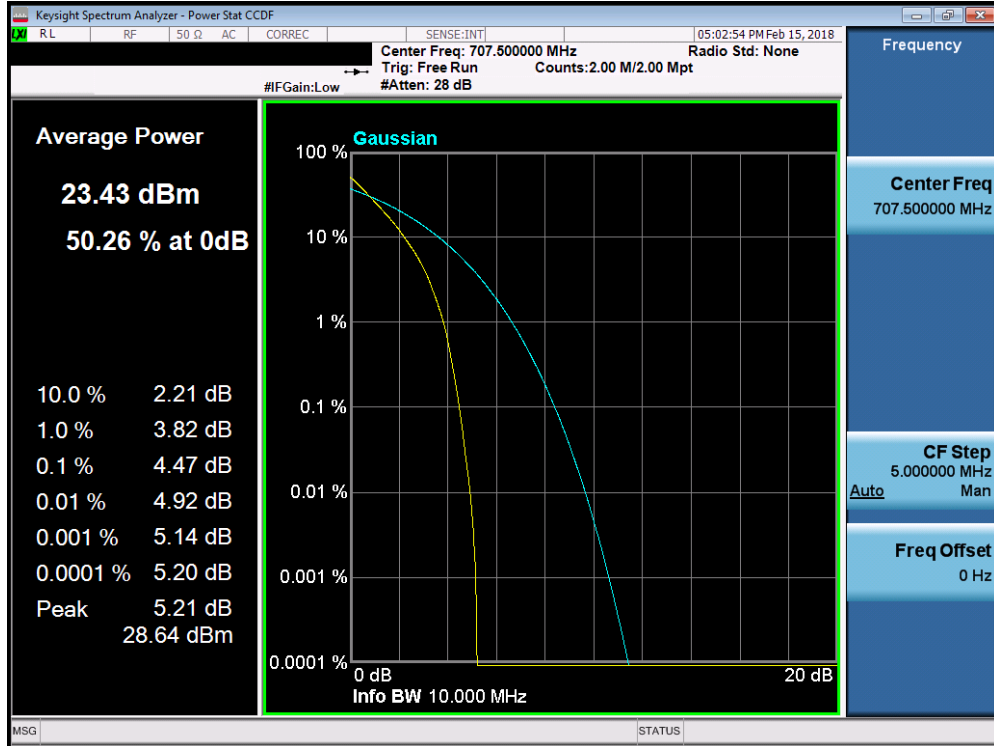


Plot 7-206. PAR Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

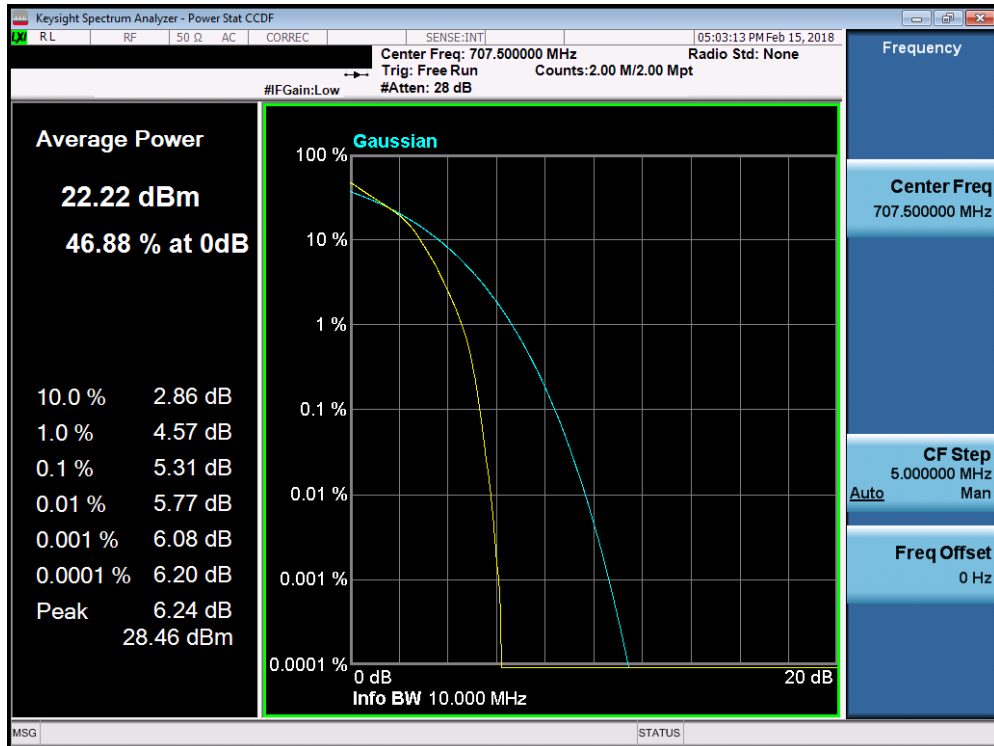


Plot 7-207. PAR Plot (Band 12 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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Plot 7-208. PAR Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

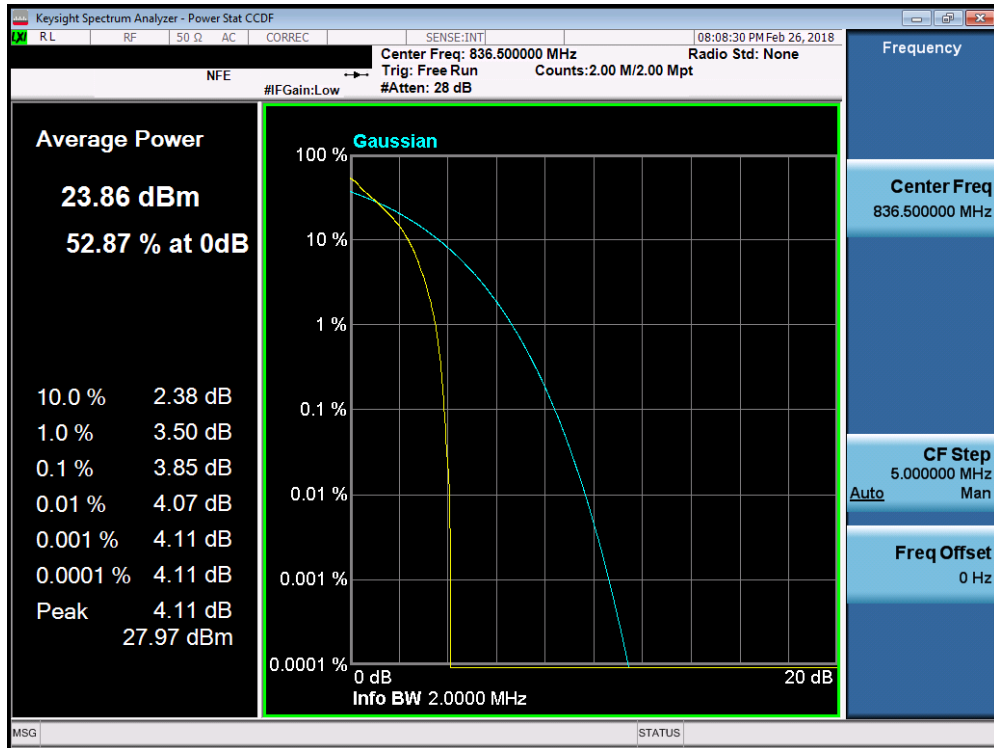


Plot 7-209. PAR Plot (Band 12 - 10.0MHz 16-QAM - Full RB Configuration)

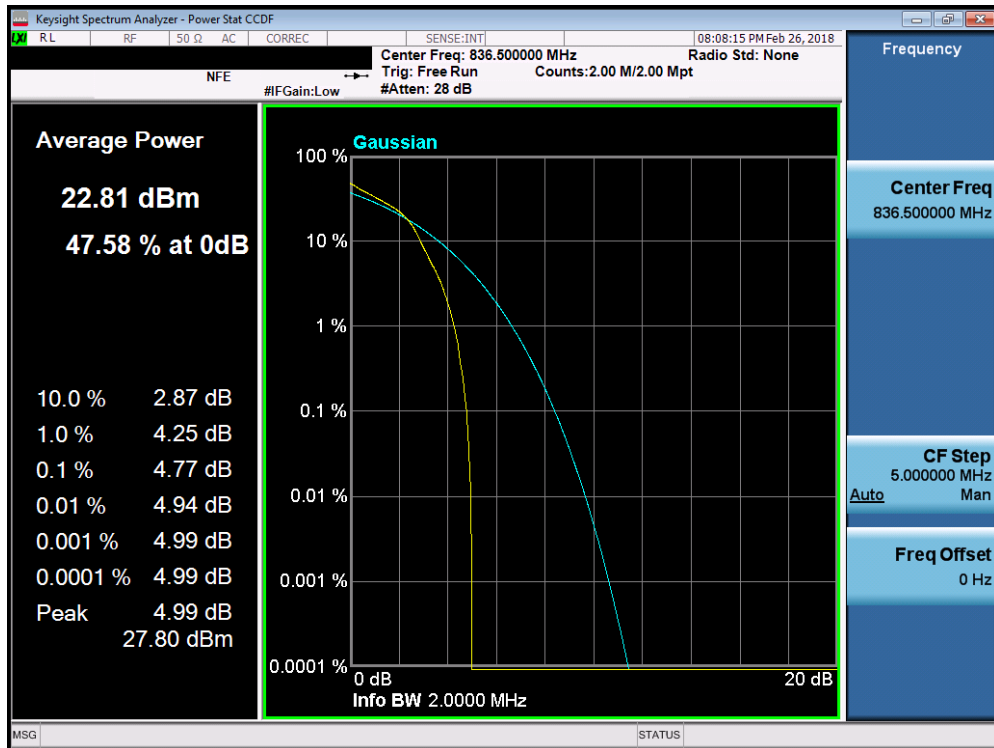
FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 128 of 184



**Band 5**

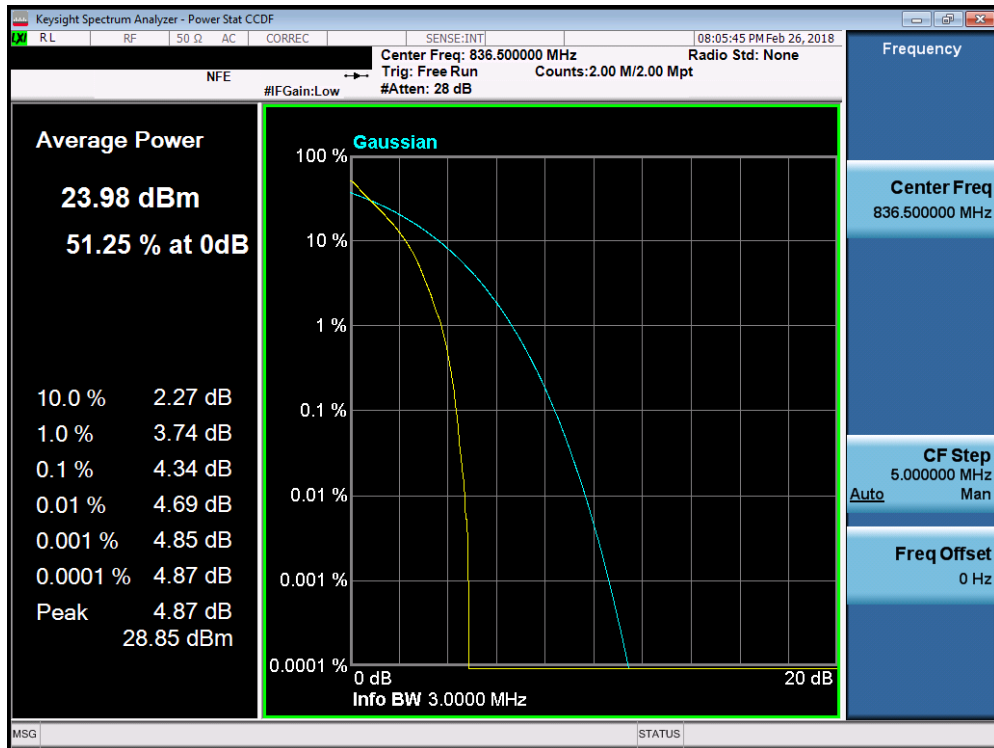


**Plot 7-210. PAR Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)**

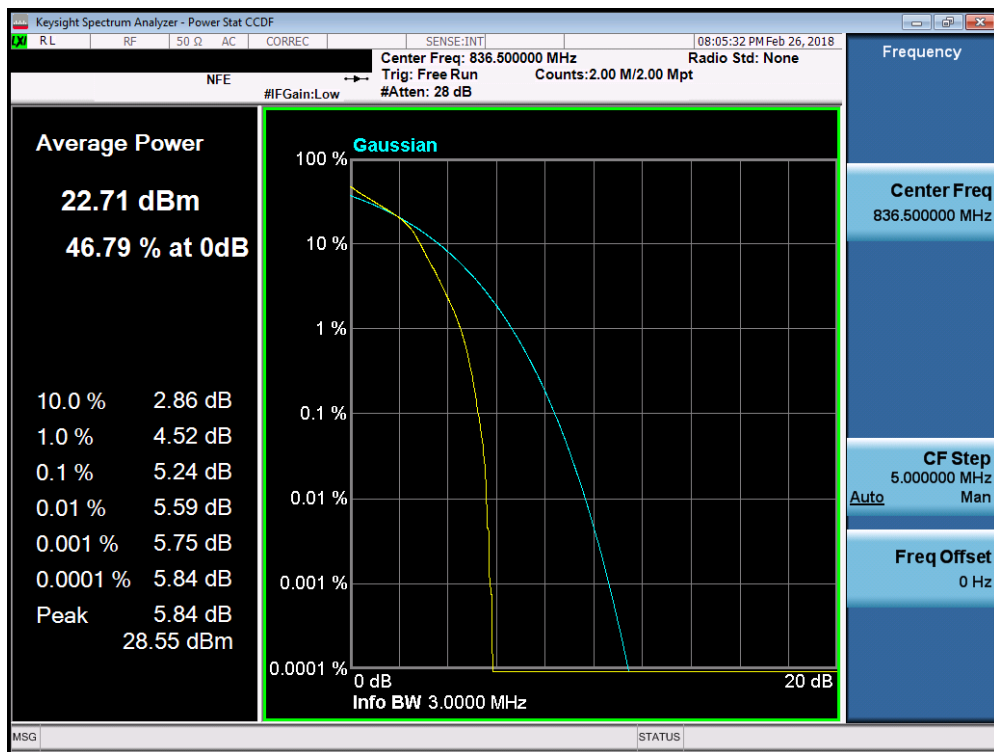


**Plot 7-211. PAR Plot (Band 5 - 1.4MHz 16-QAM - Full RB Configuration)**

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 129 of 184

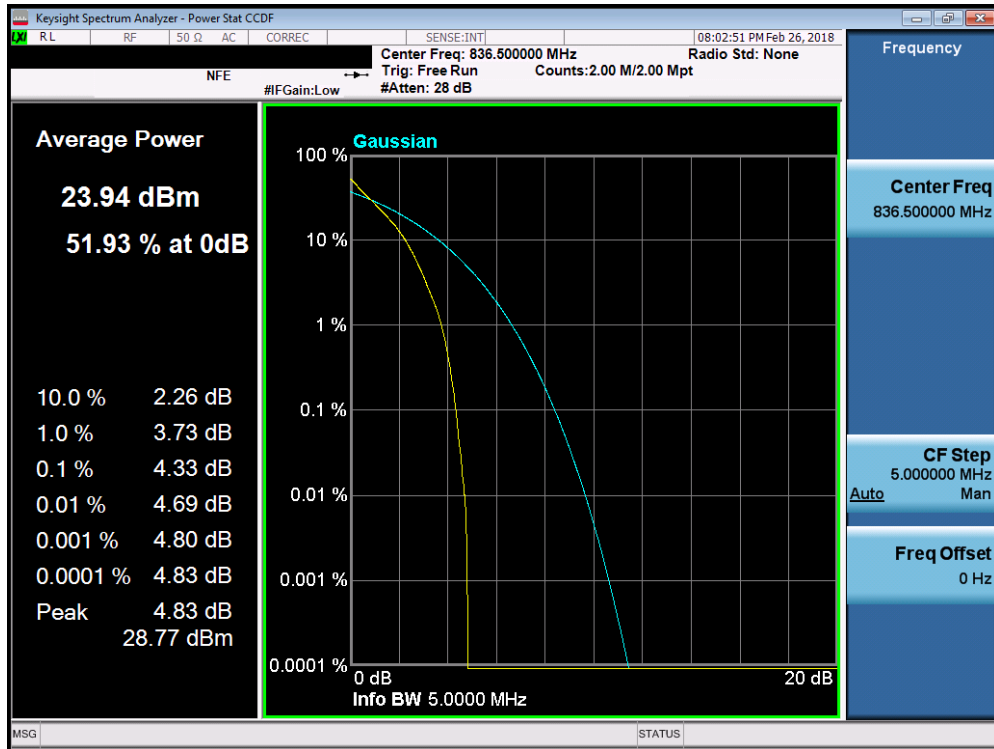


Plot 7-212. PAR Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

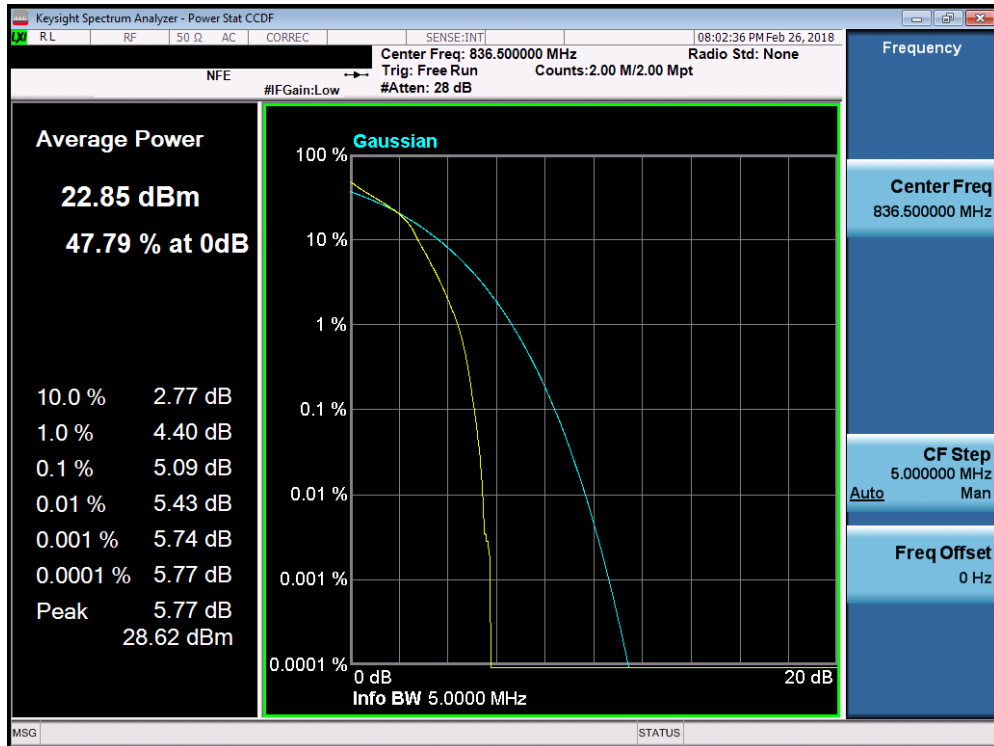


Plot 7-213. PAR Plot (Band 5 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK			<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 130 of 184	

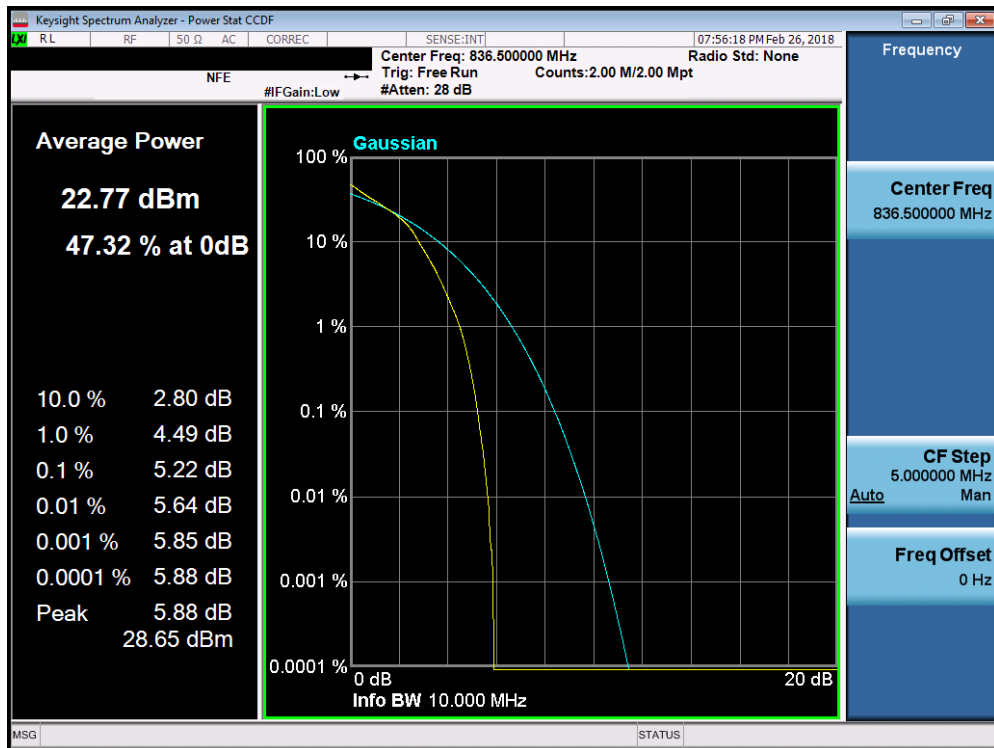
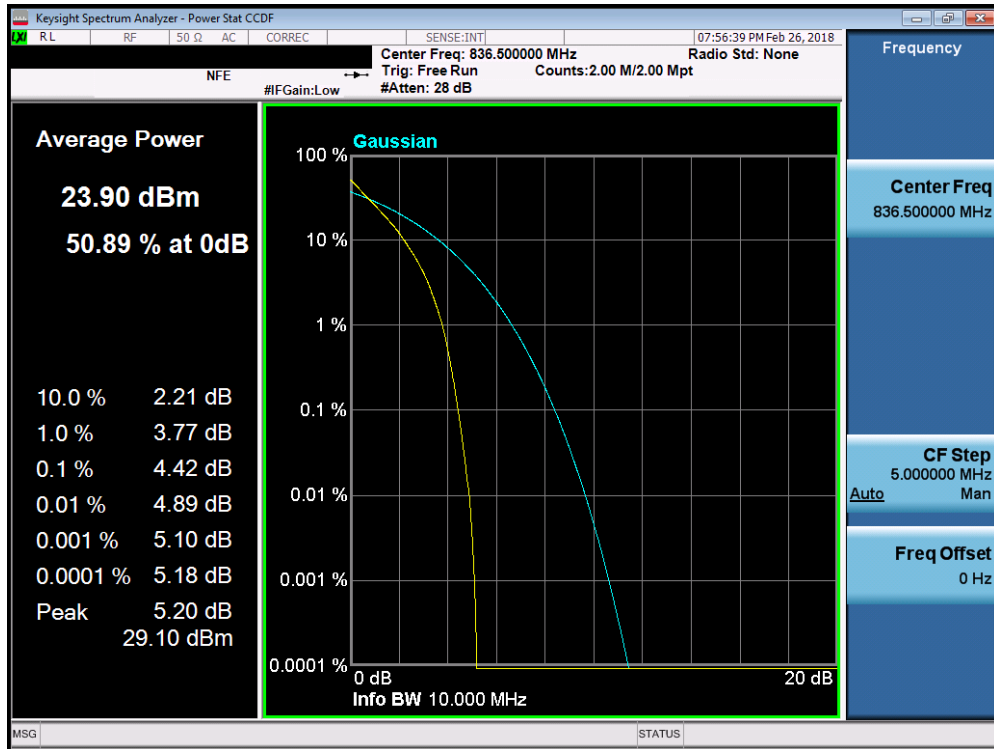


Plot 7-214. PAR Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

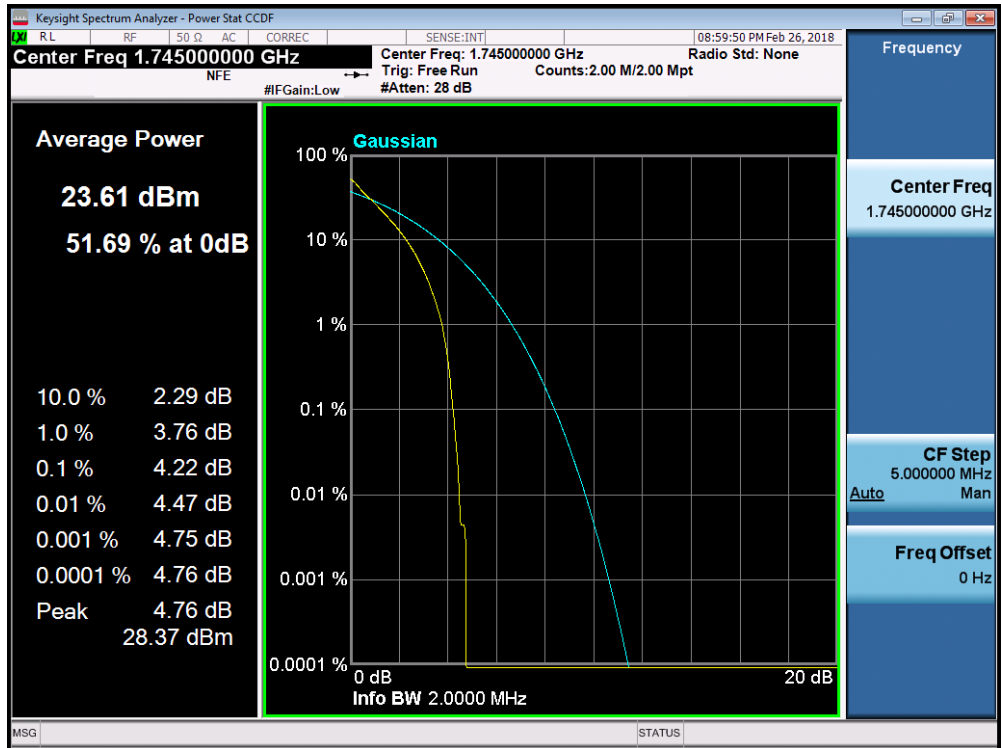


Plot 7-215. PAR Plot (Band 5 - 5.0MHz 16-QAM - Full RB Configuration)

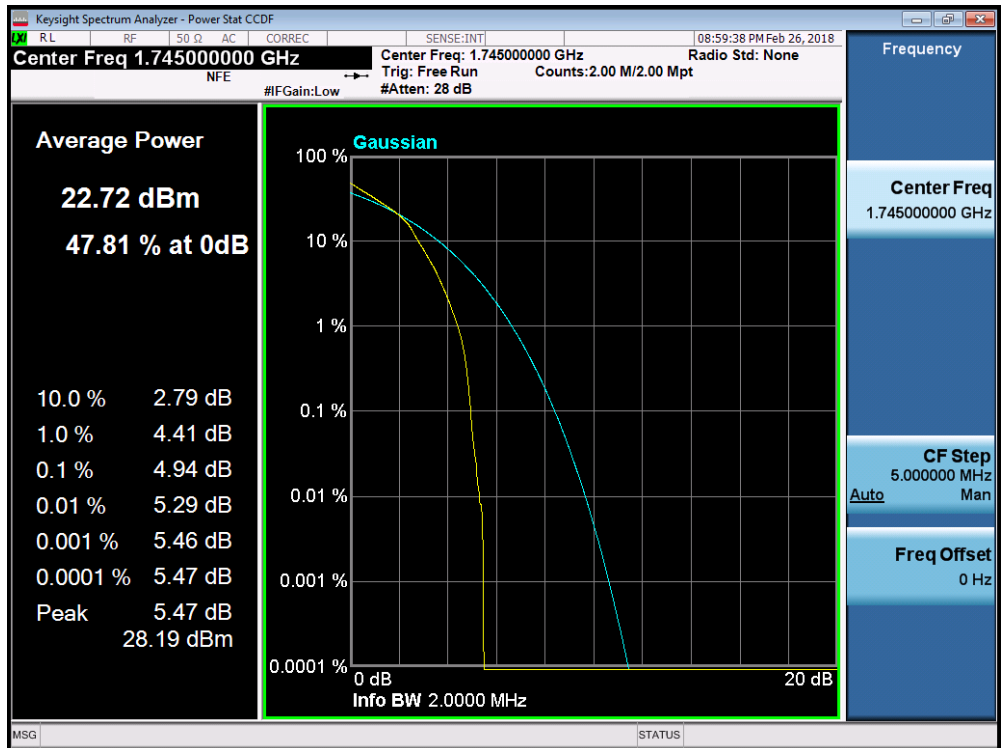
FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 131 of 184



FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
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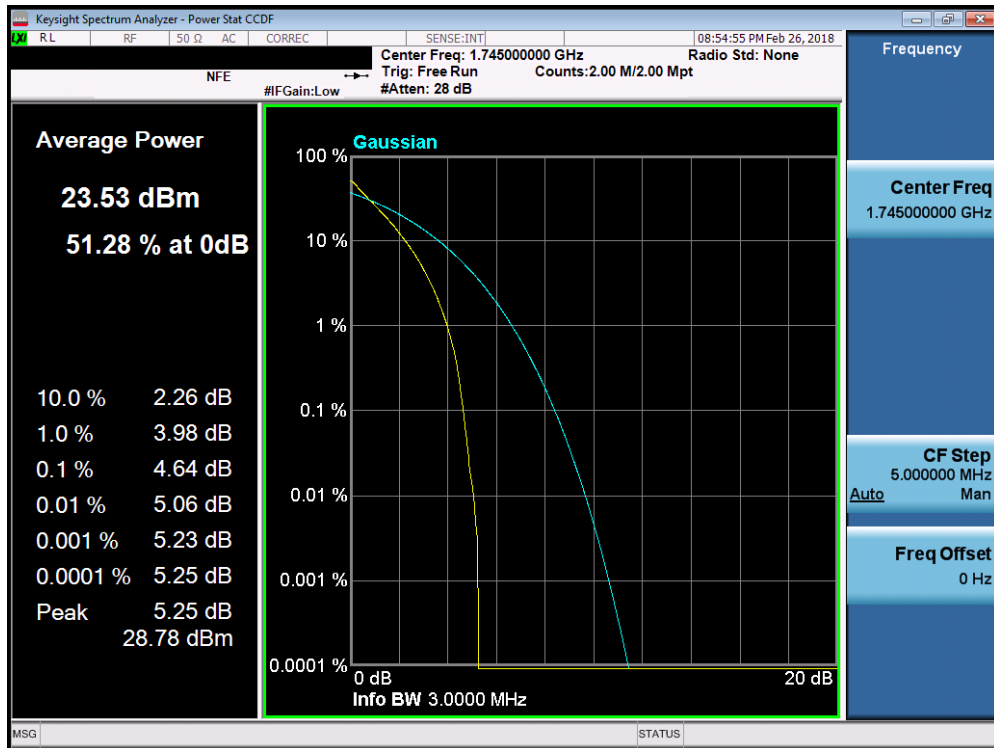


Plot 7-218. PAR Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

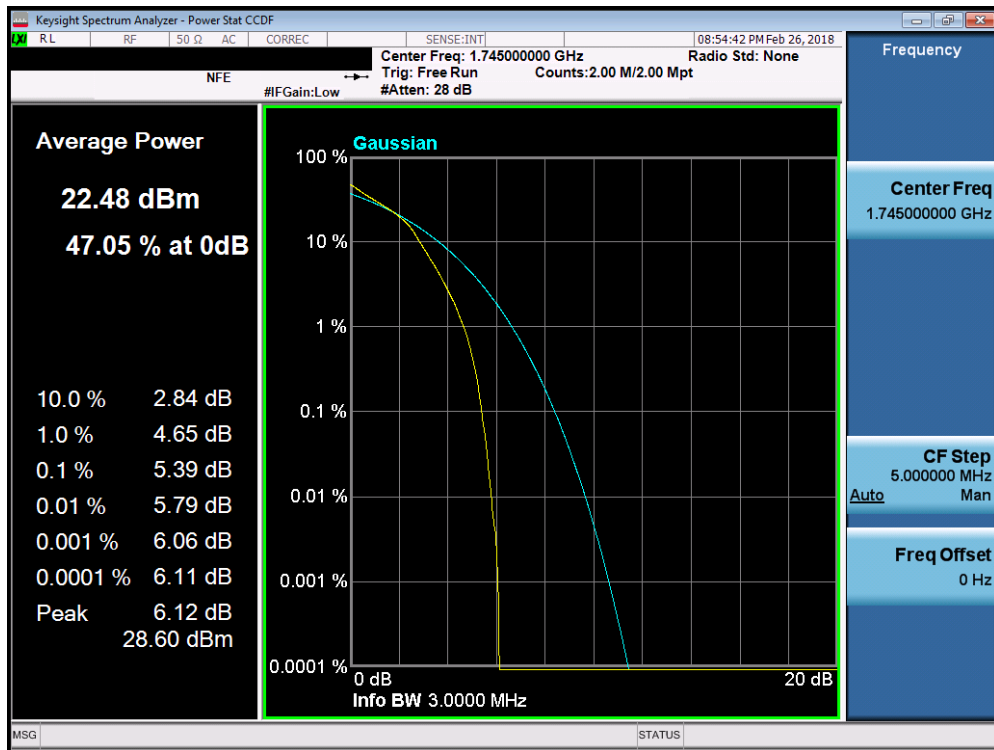


Plot 7-219. PAR Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 133 of 184

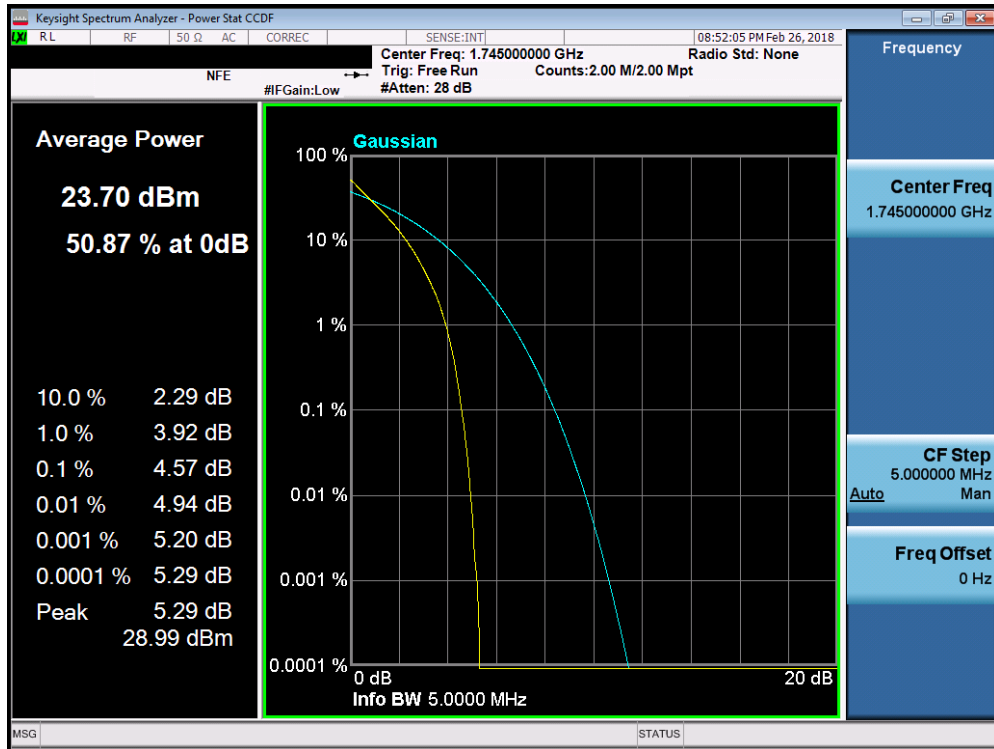


Plot 7-220. PAR Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

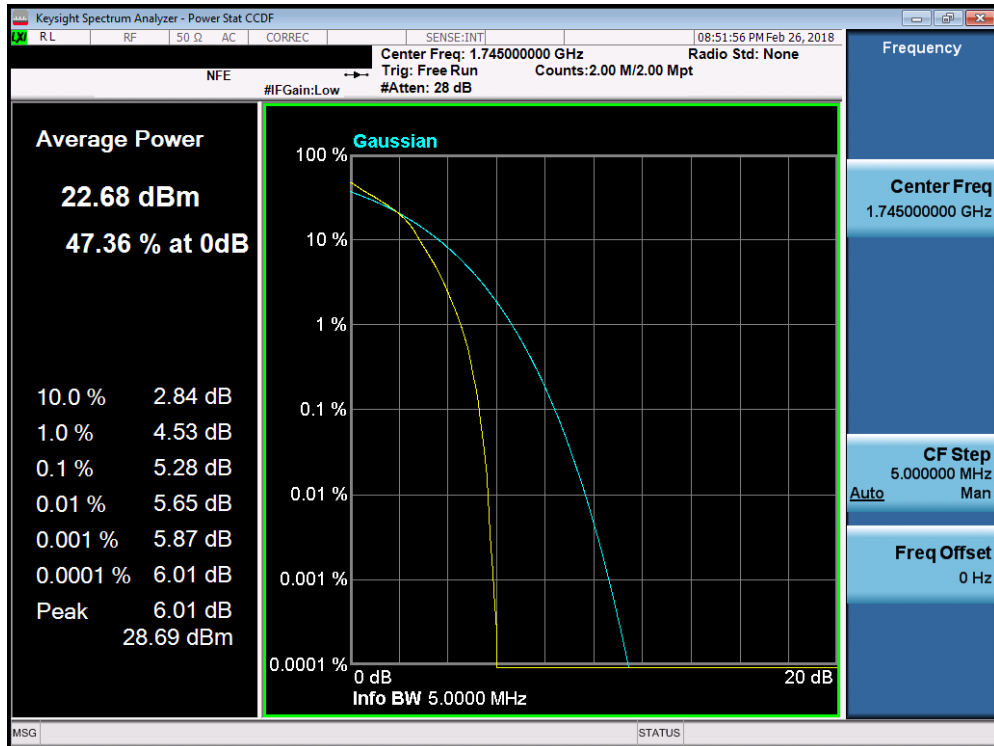


Plot 7-221. PAR Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 134 of 184



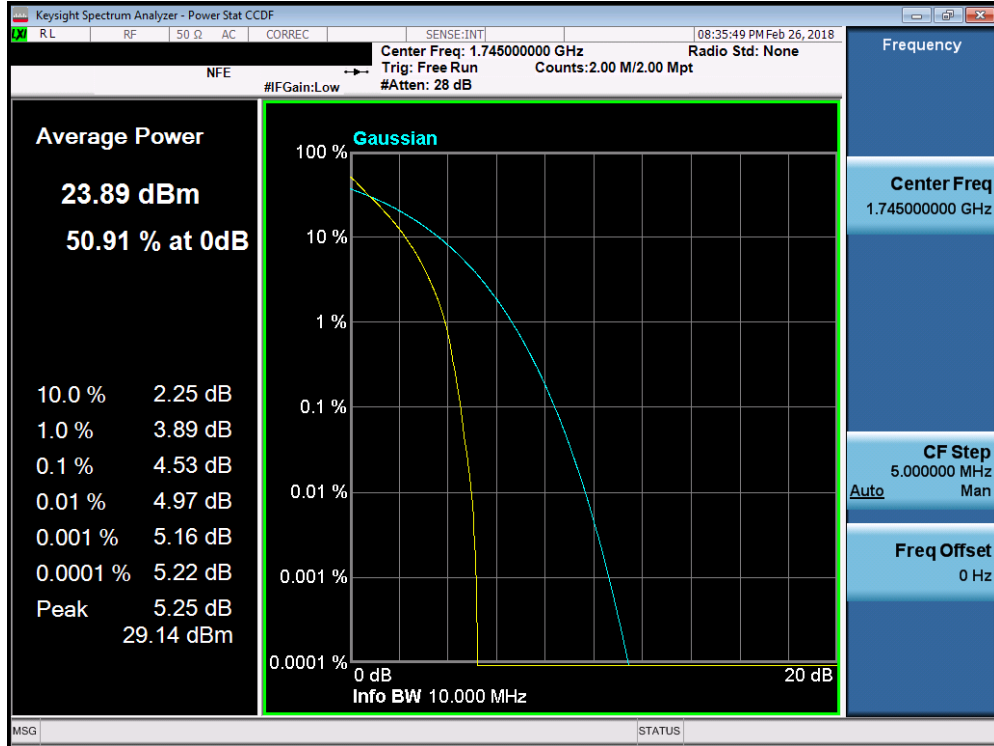
Plot 7-222. PAR Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)



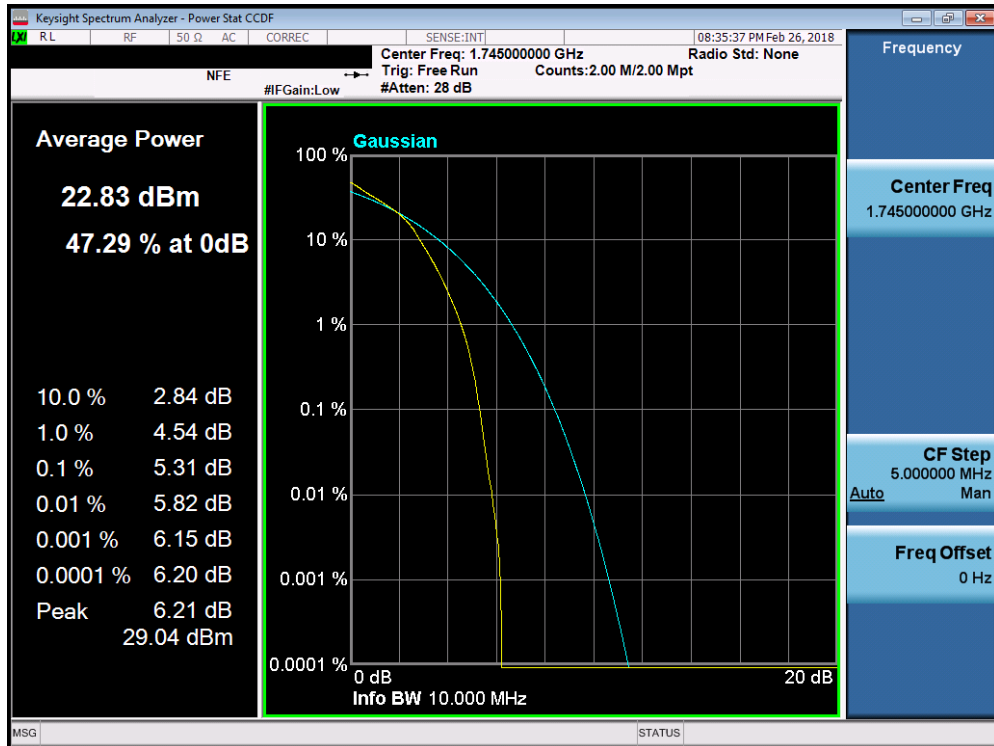
Plot 7-223. PAR Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT</b> (CERTIFICATION)		Approved by: Quality Manager
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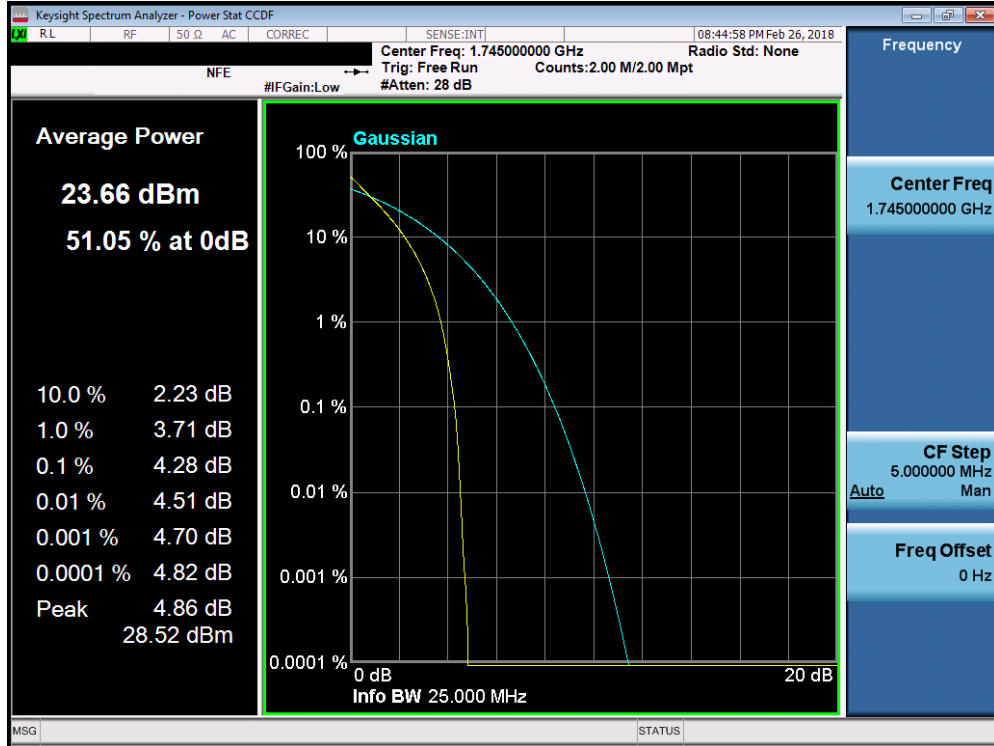


Plot 7-224. PAR Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

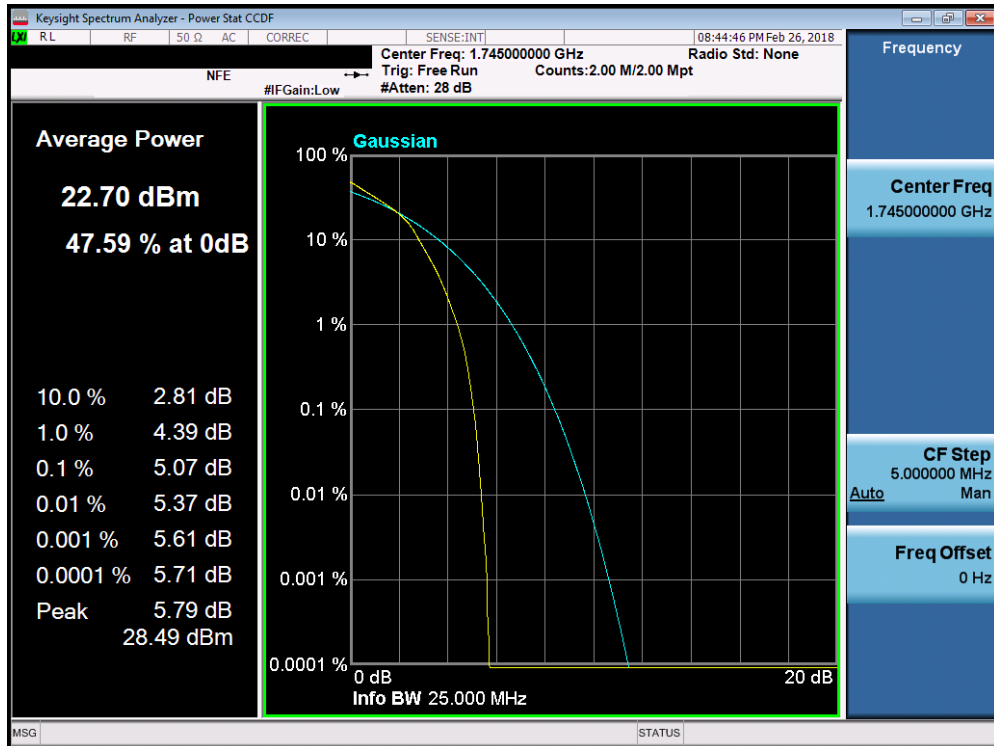


Plot 7-225. PAR Plot (Band 66/4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 136 of 184

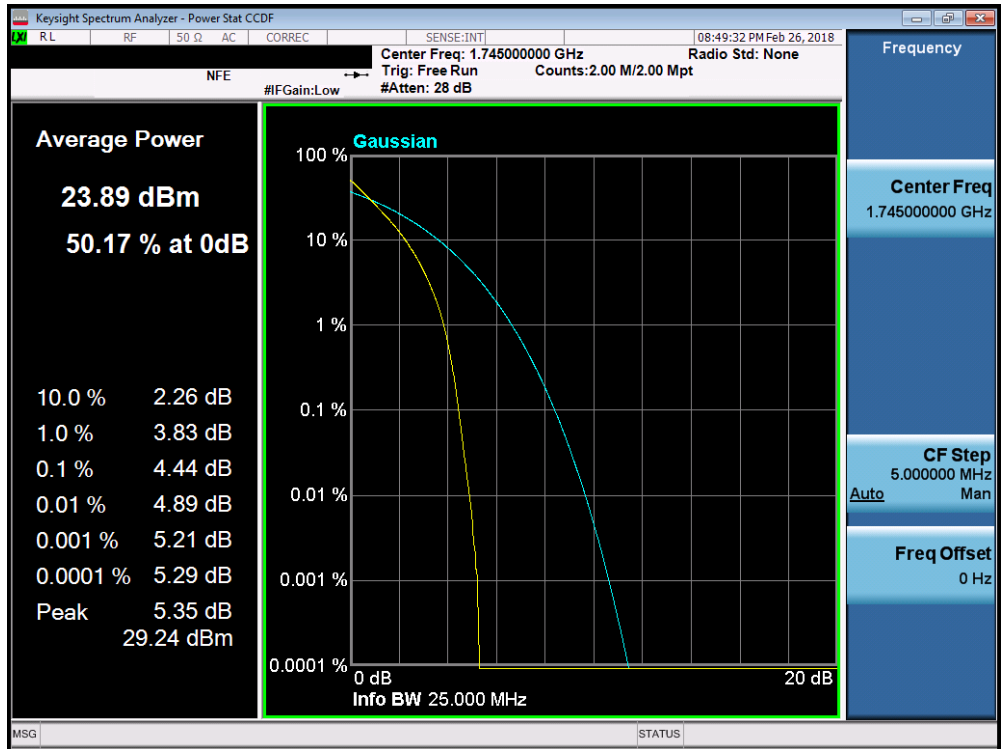


Plot 7-226. PAR Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

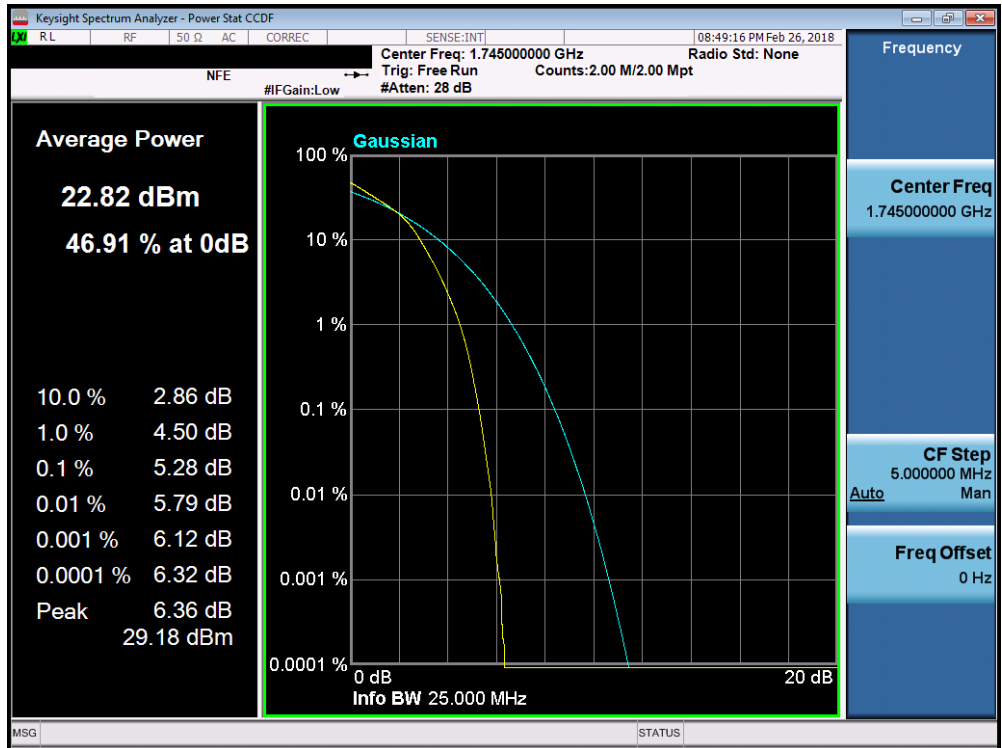


Plot 7-227. PAR Plot (Band 66/4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 137 of 184



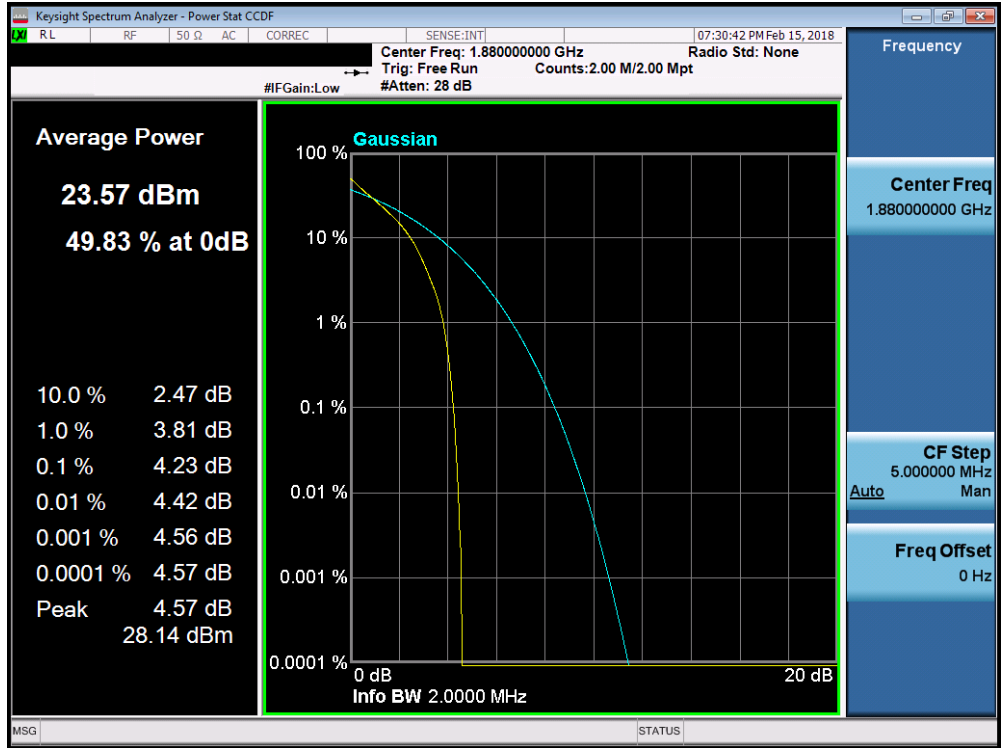
Plot 7-228. PAR Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)



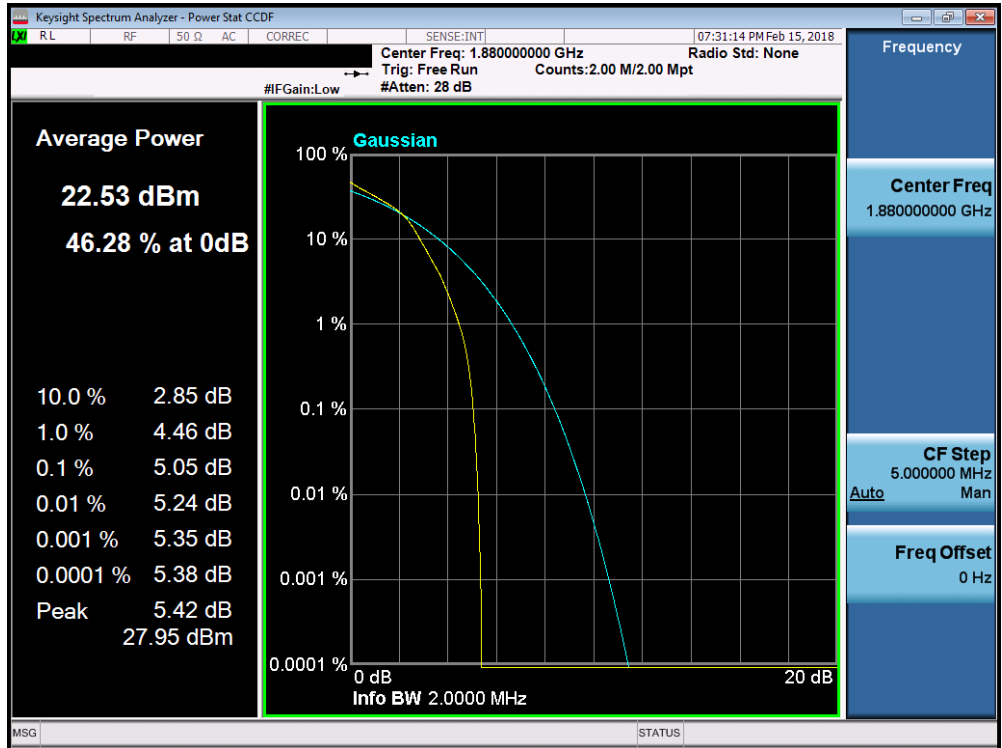
Plot 7-229. PAR Plot (Band 66/4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 138 of 184

**Band 2**

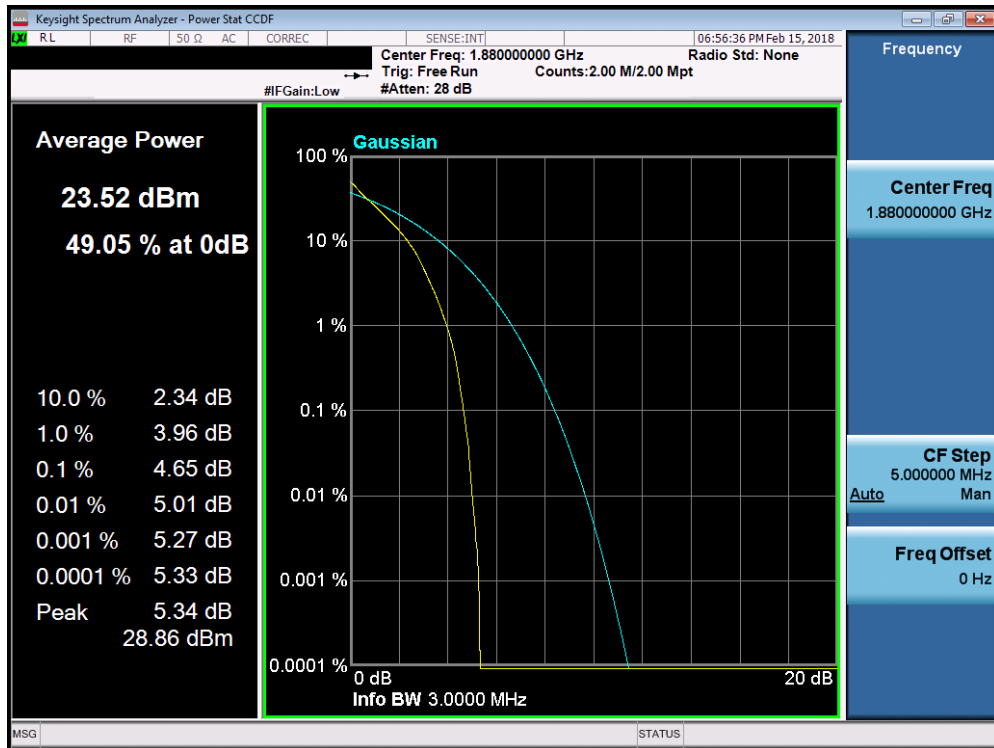


**Plot 7-230. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)**

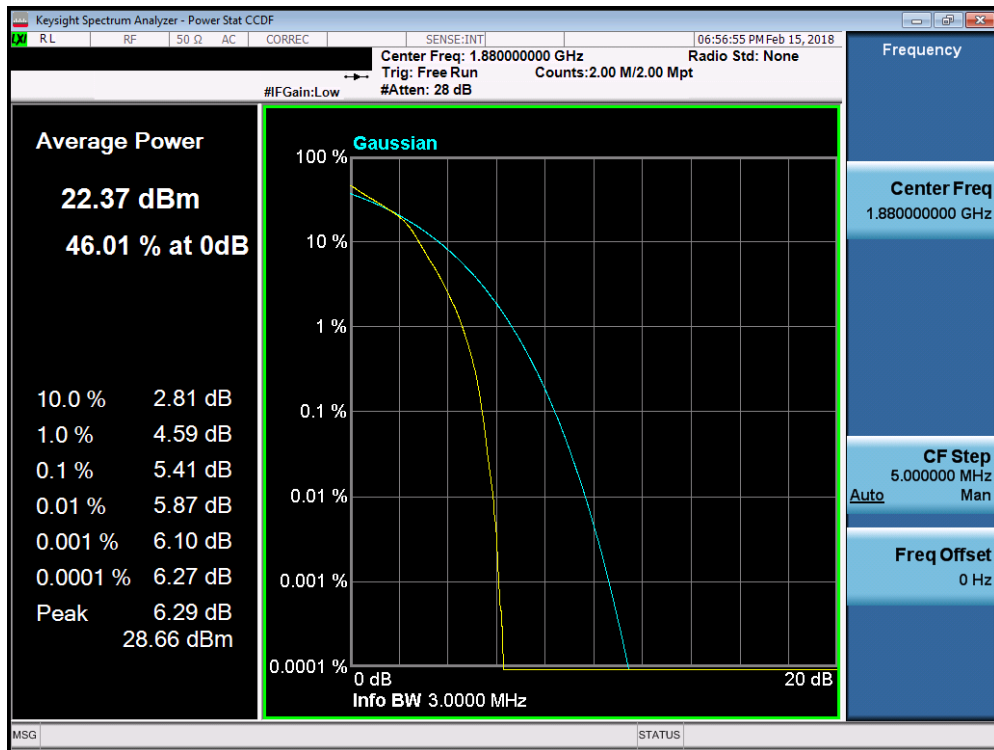


**Plot 7-231. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)**

FCC ID: ZNFX410TK	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset	Page 139 of 184



Plot 7-232. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-233. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: ZNFX410TK		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1801310013-03.ZNF	Test Dates: 2/12/18 - 3/5/18	EUT Type: Portable Handset		Page 140 of 184