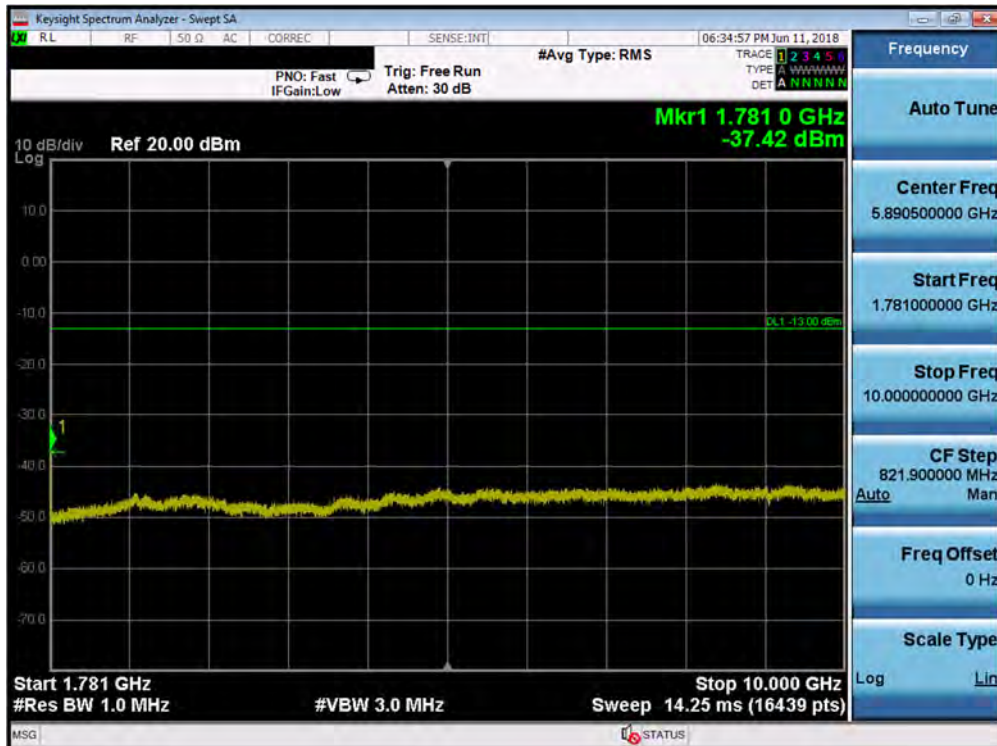


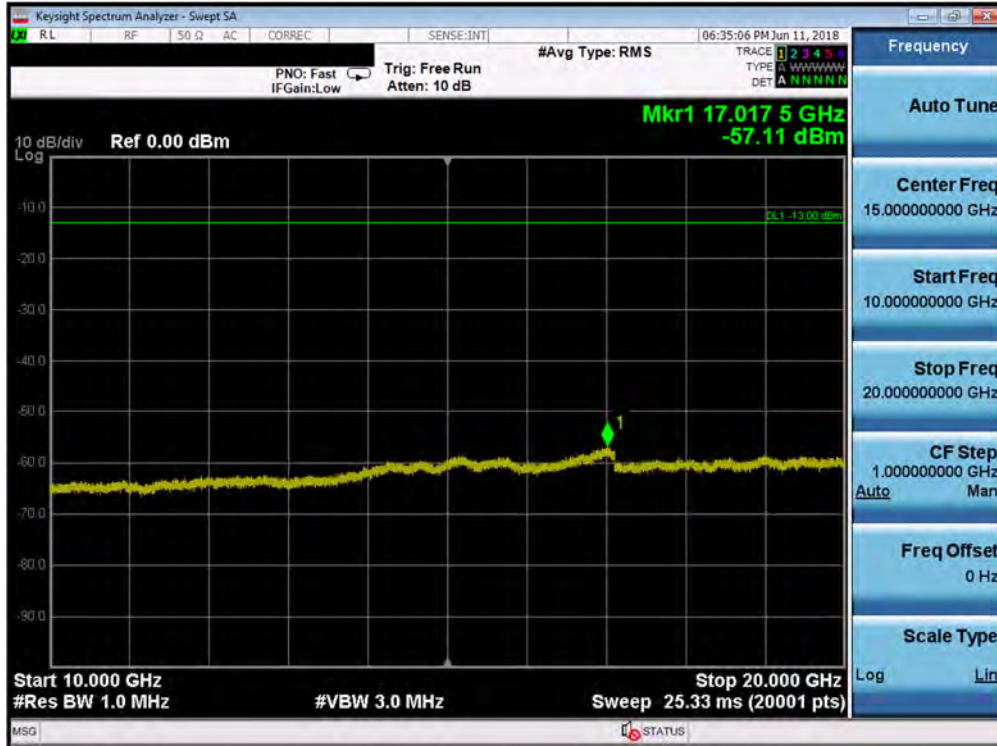


Plot 7-136. Conducted Spurious Plot (Band 4 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-137. Conducted Spurious Plot (Band 4 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

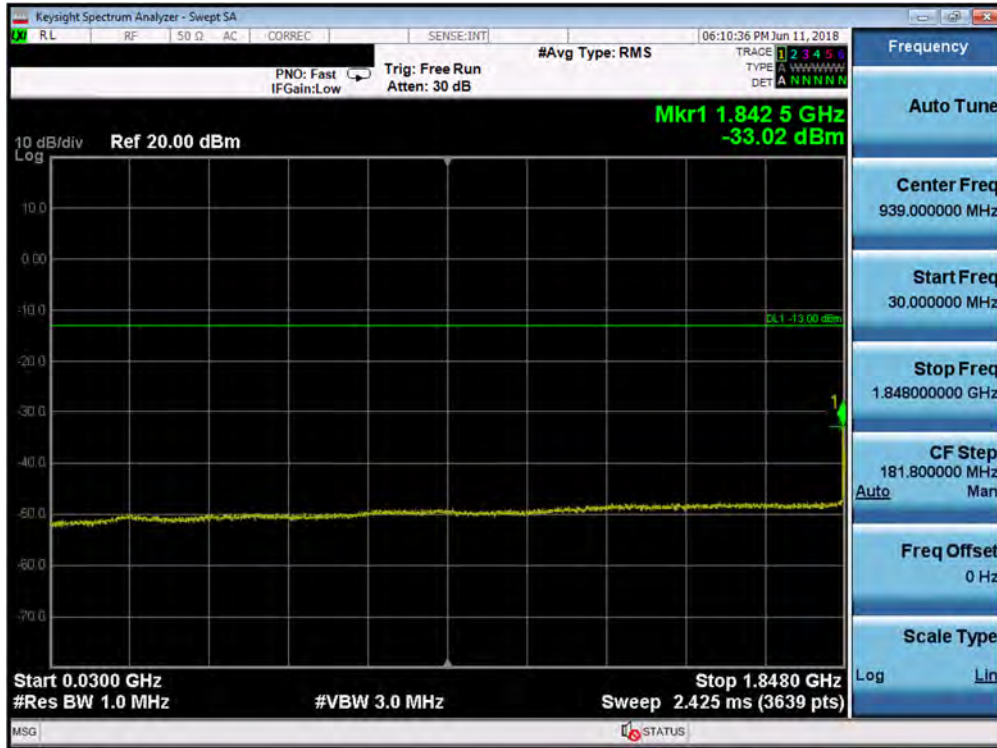
FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 86 of 221



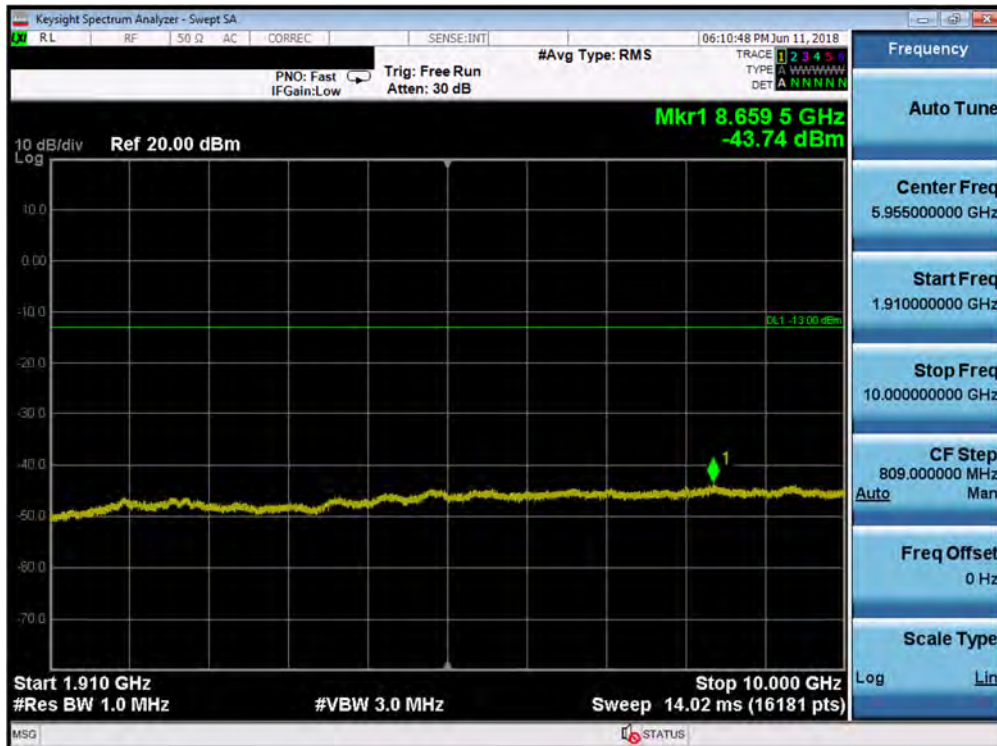
Plot 7-138. Conducted Spurious Plot (Band 4 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet	Page 87 of 221	

**Band 25/2**

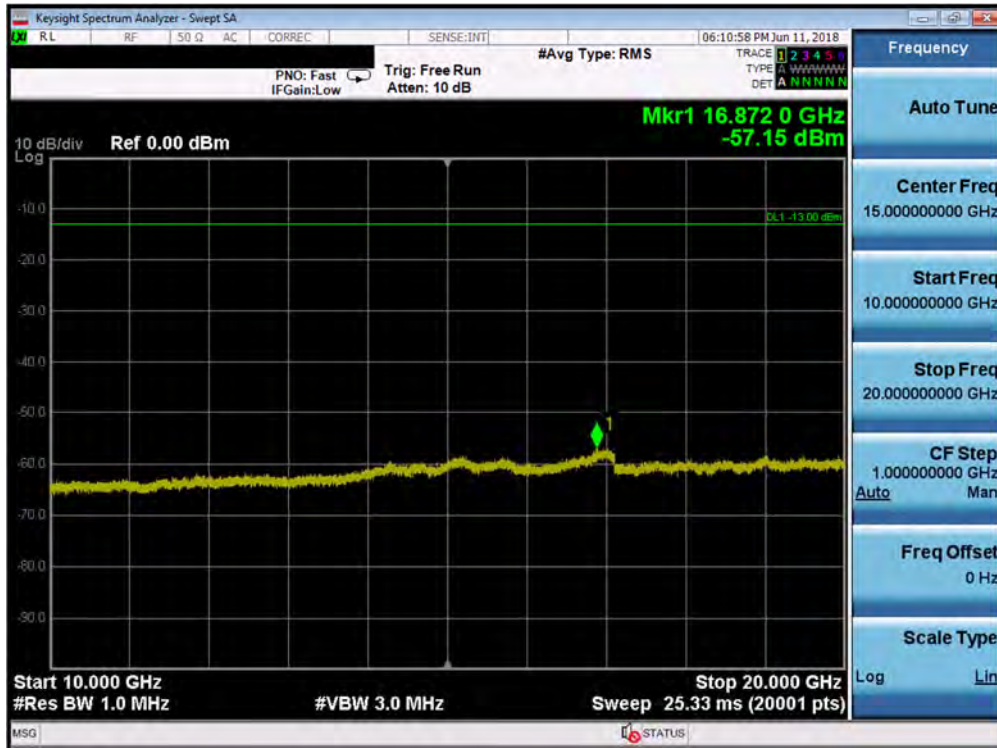


Plot 7-139. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

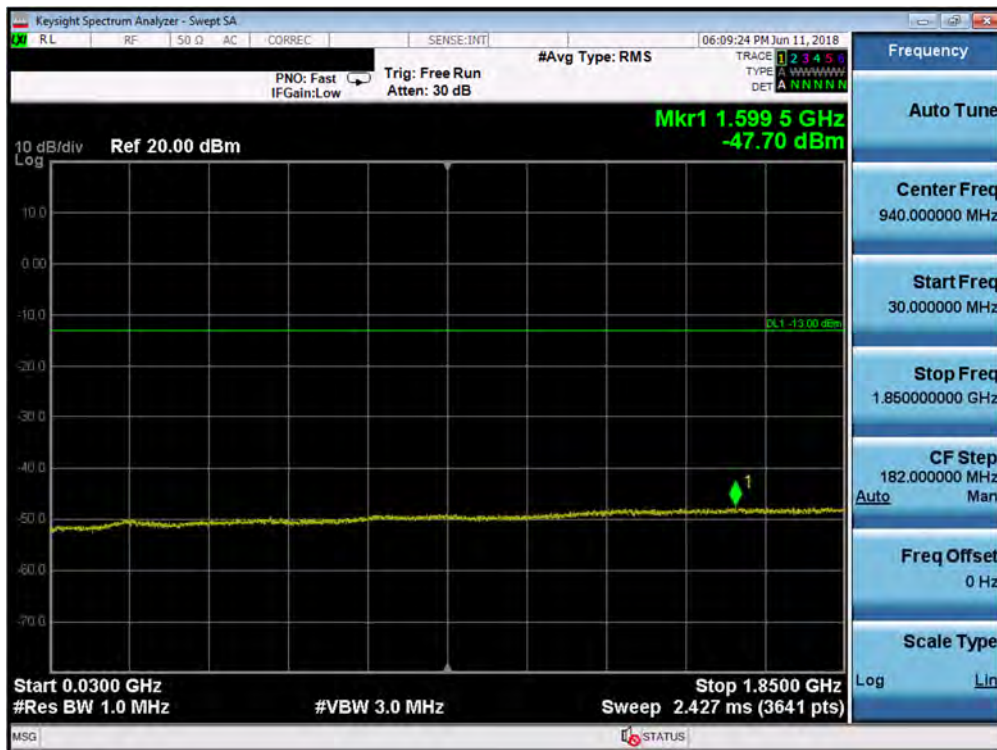


Plot 7-140. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 88 of 221

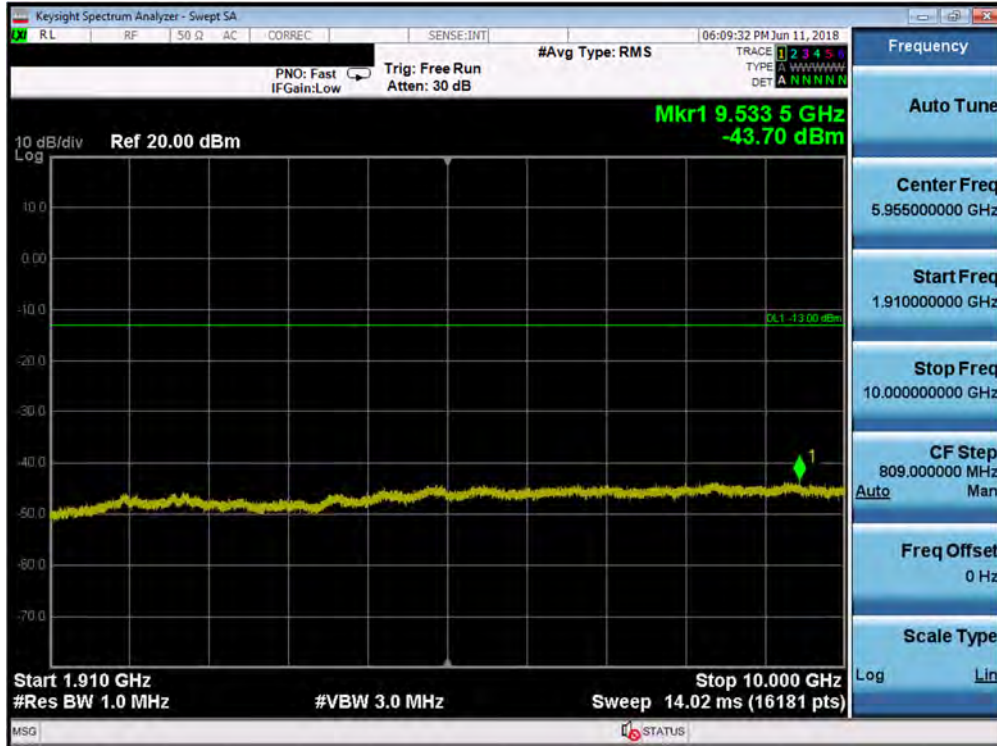


Plot 7-141. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

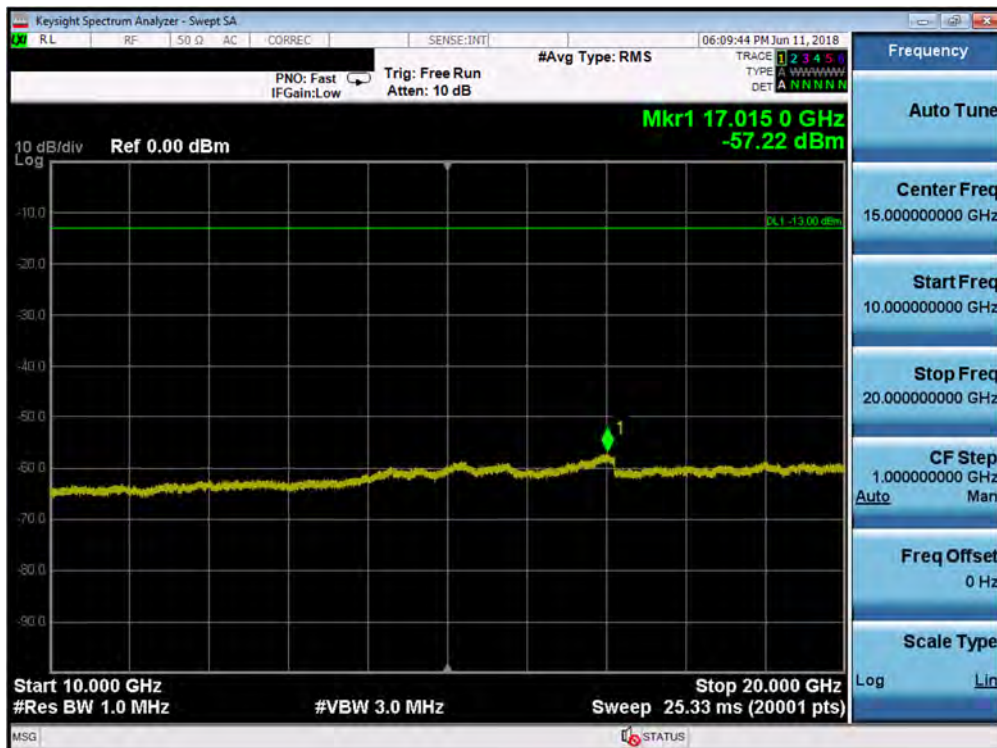


Plot 7-142. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 89 of 221

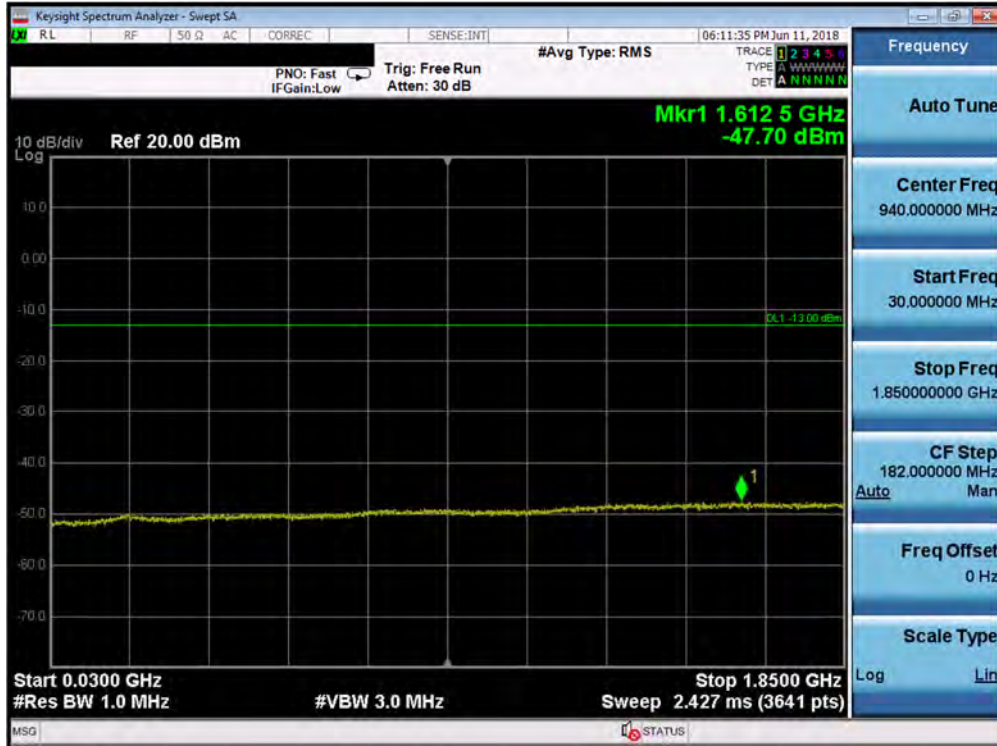


Plot 7-143. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

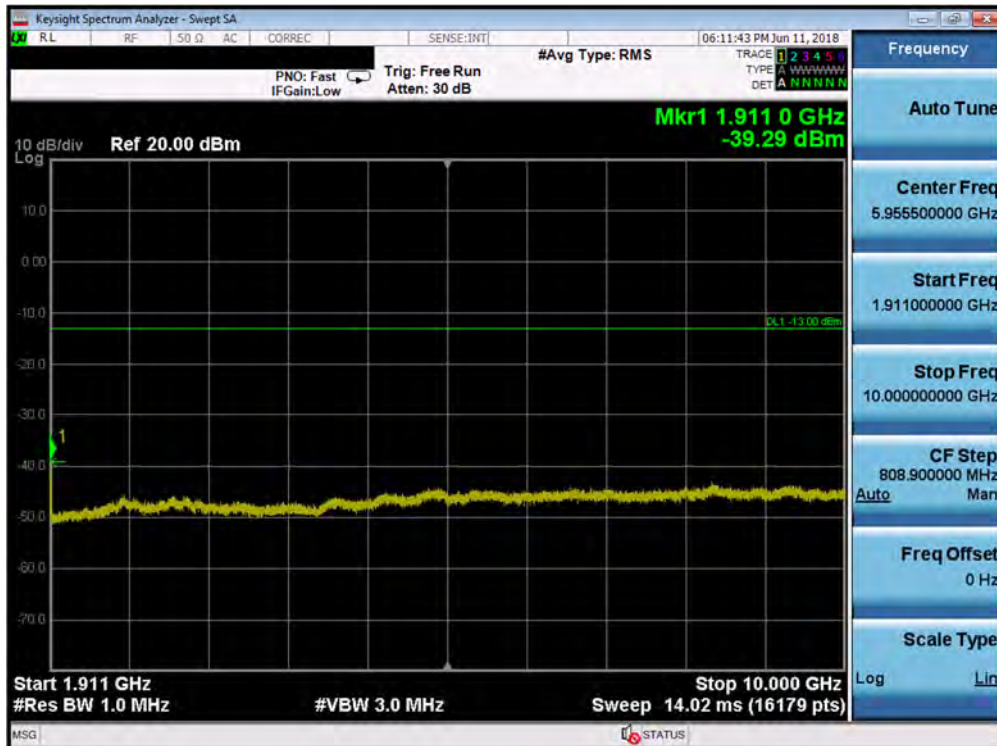


Plot 7-144. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 90 of 221

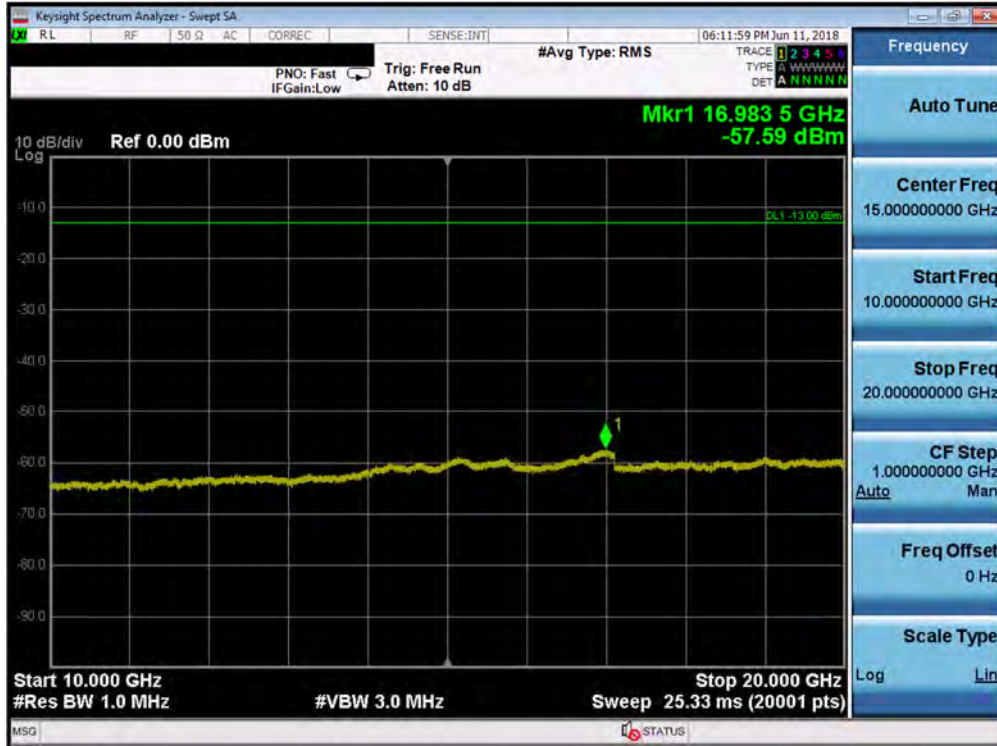


Plot 7-145. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-146. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 91 of 221



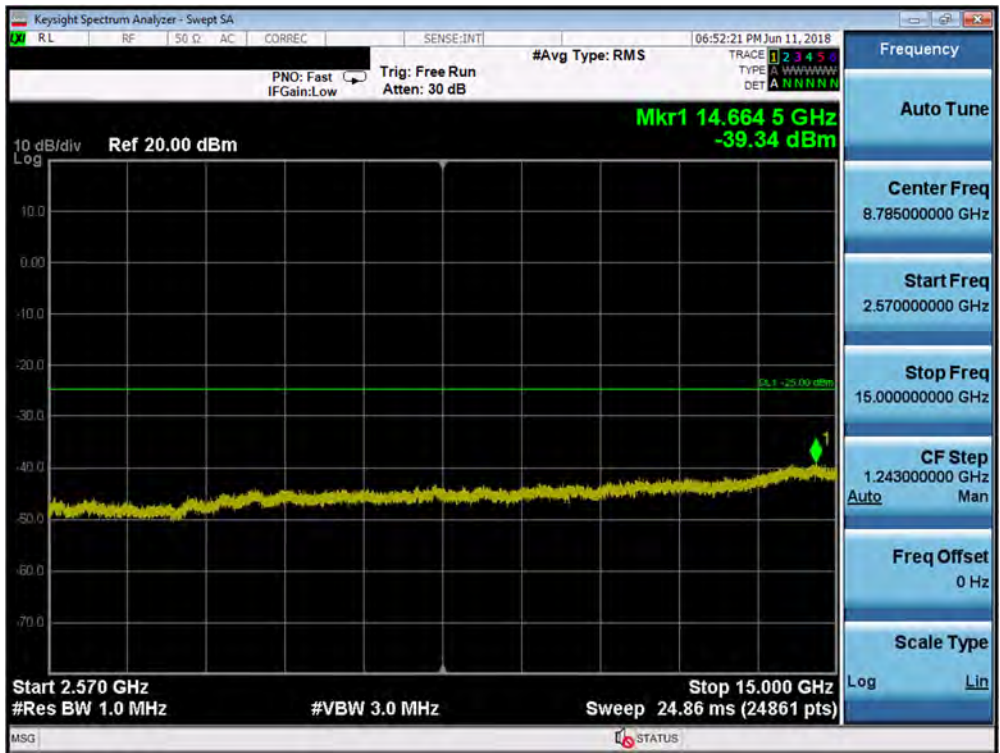
Plot 7-147. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet	Page 92 of 221	

**Band 7**



Plot 7-148. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



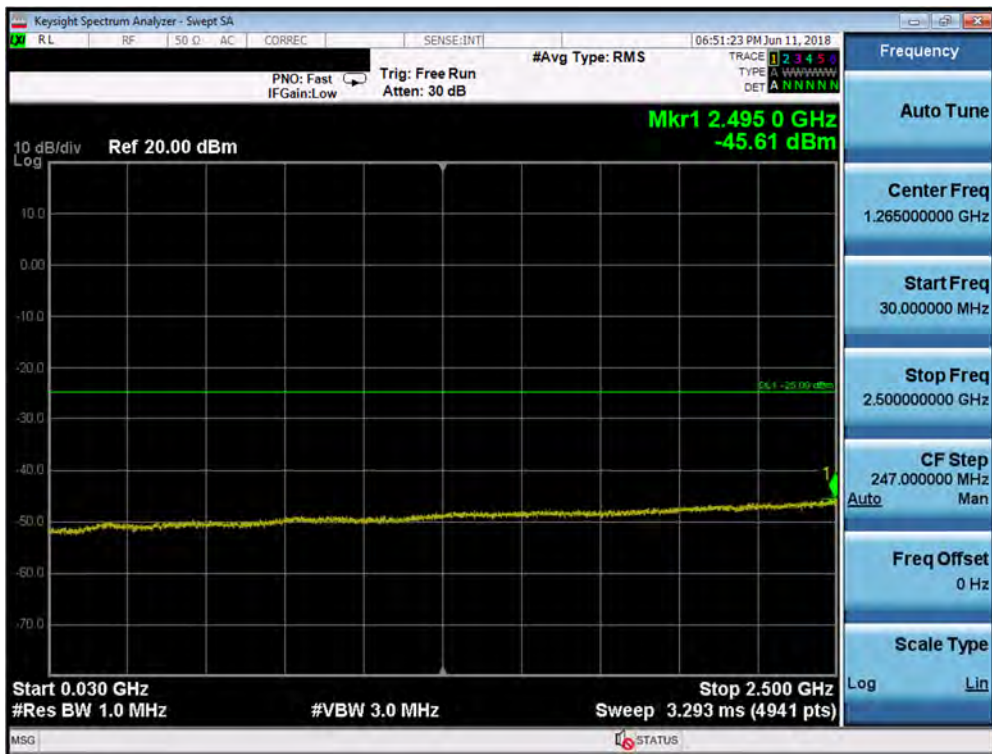
Plot 7-149. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 93 of 221



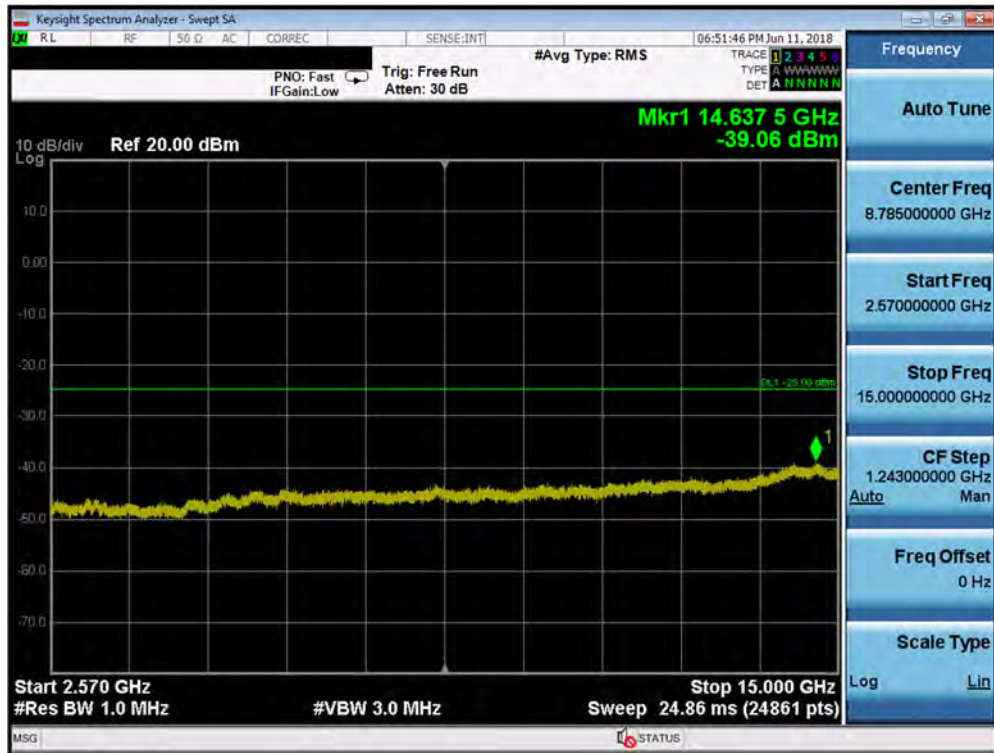


Plot 7-150. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

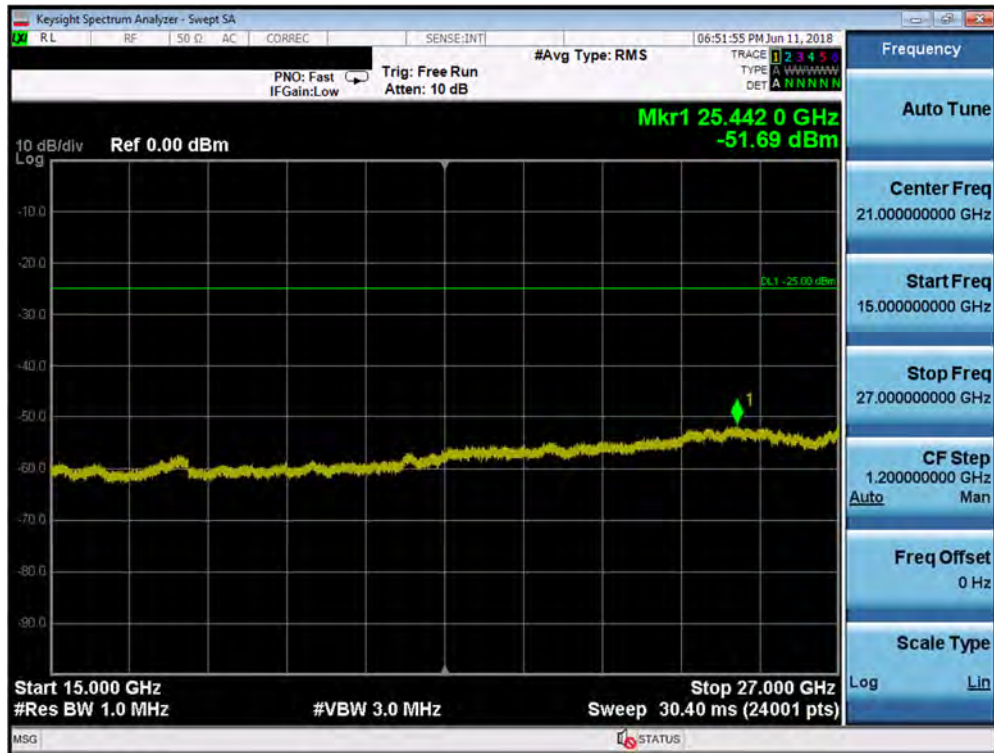


Plot 7-151. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 94 of 221

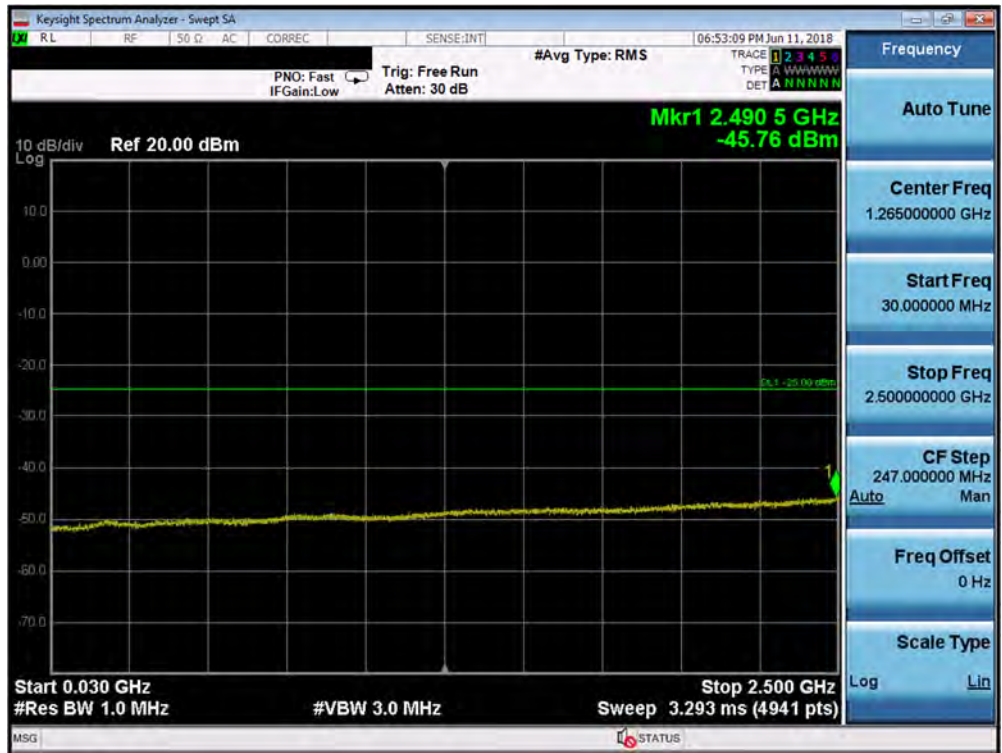


Plot 7-152. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

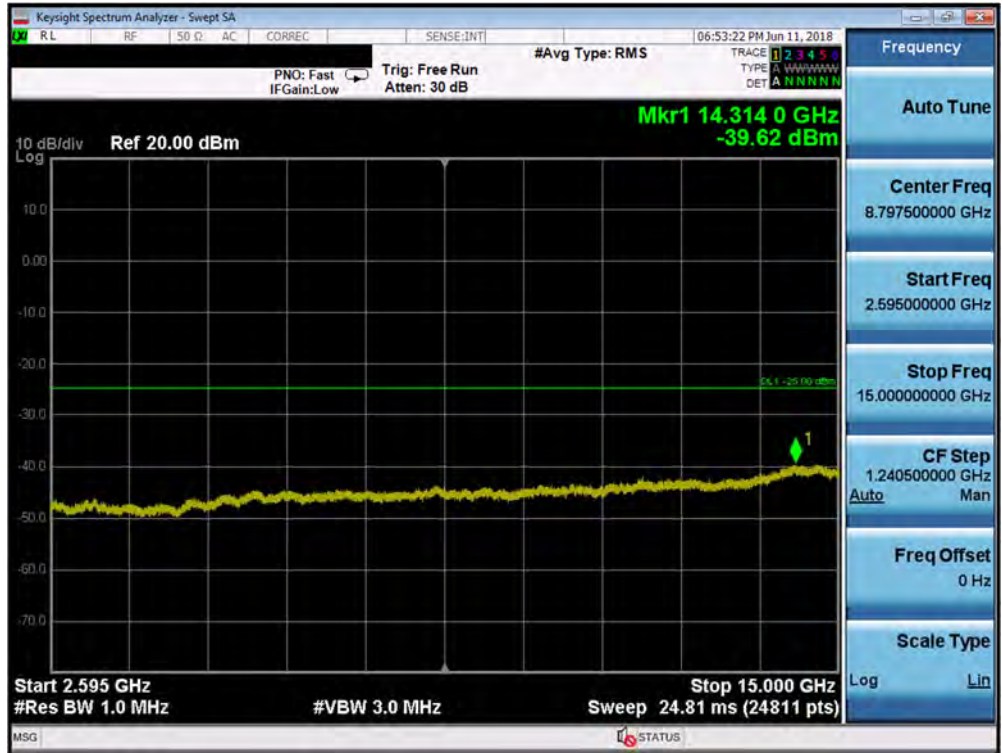


Plot 7-153. Conducted Spurious Plot (Band 2 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-154. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-155. Conducted Spurious Plot (Band 7 – 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

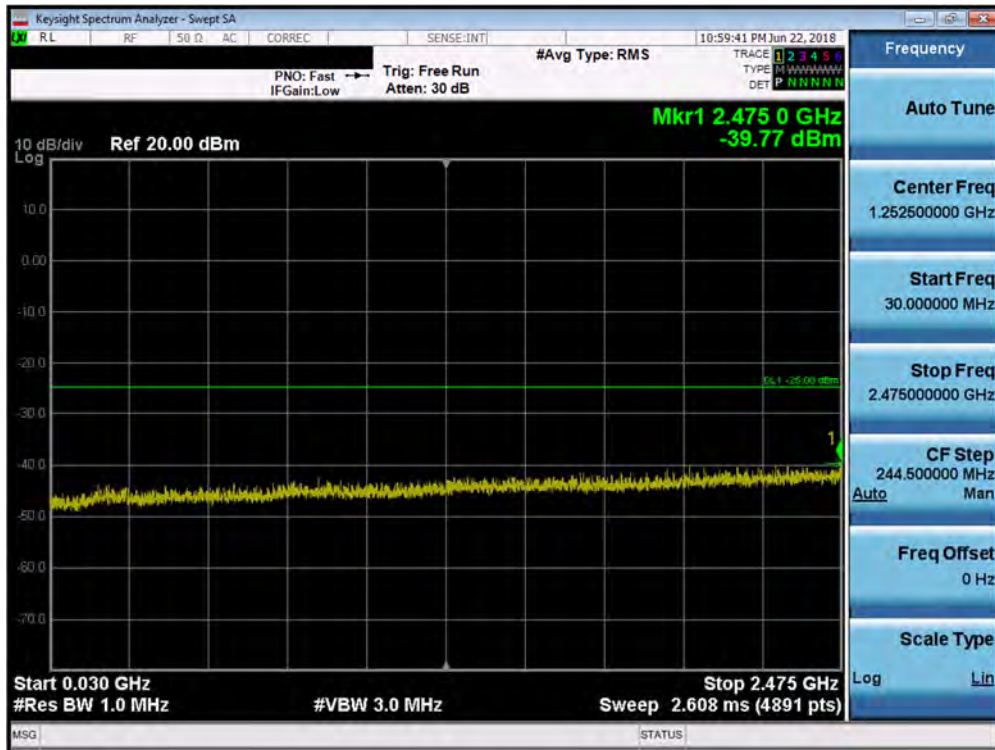
FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 96 of 221



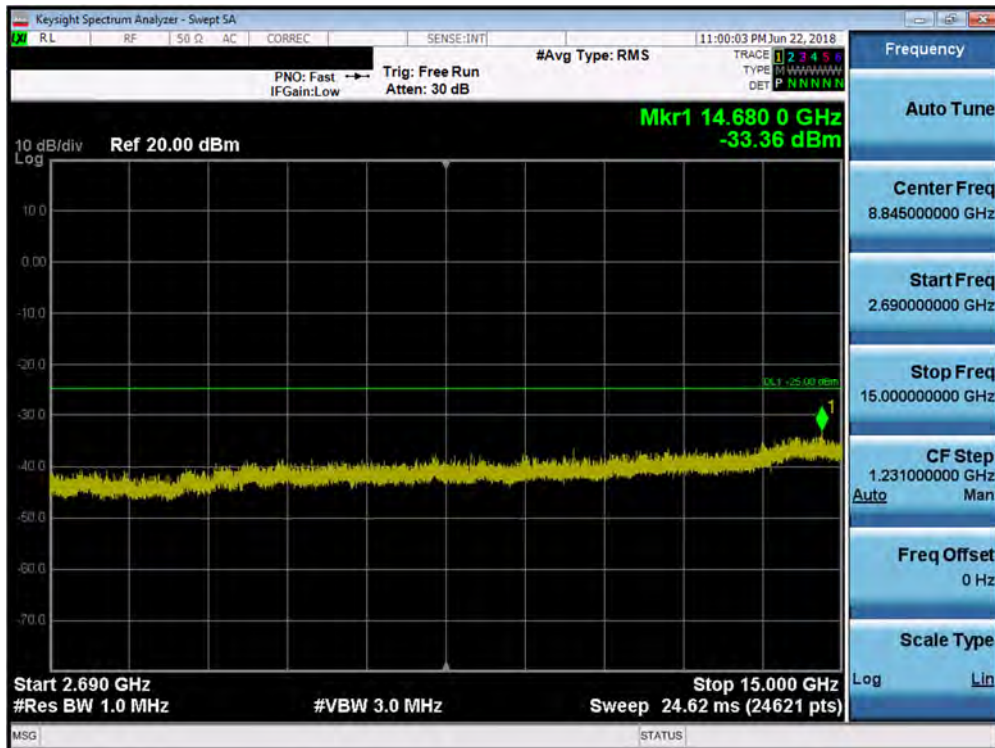
Plot 7-156. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet	Page 97 of 221	

**Band 41**

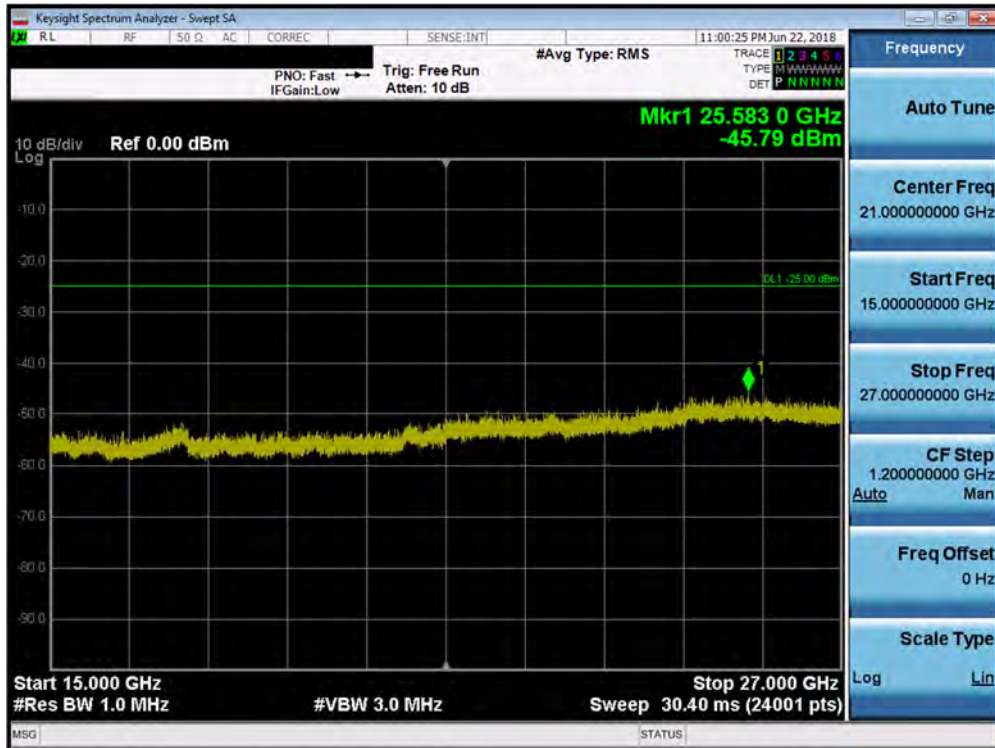


Plot 7-157. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

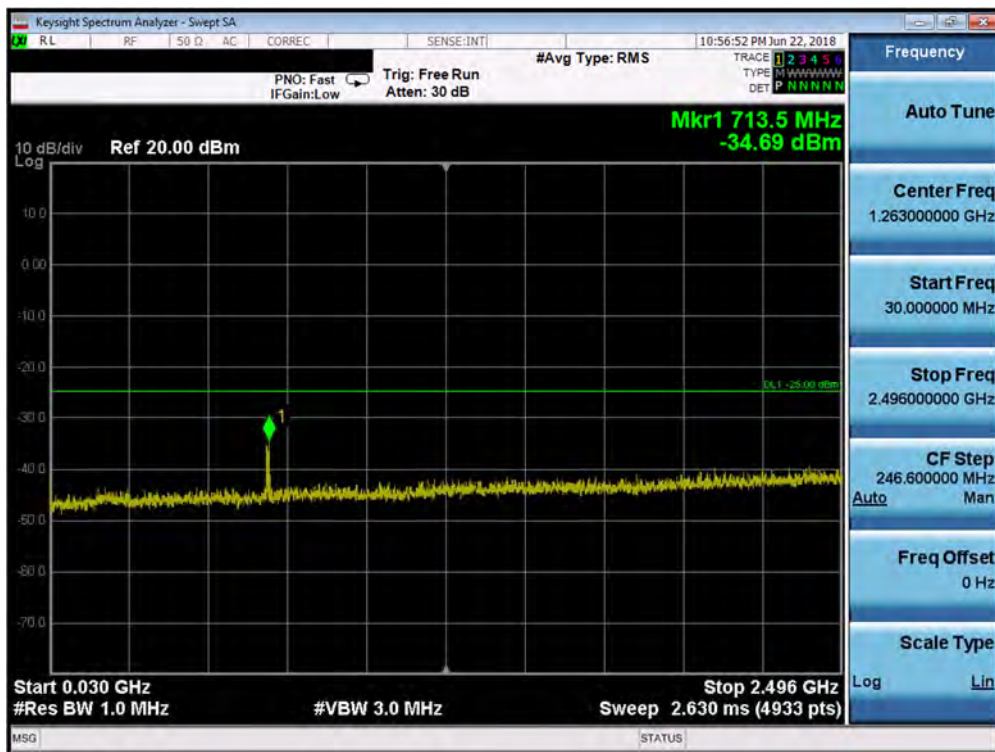


Plot 7-158. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 98 of 221

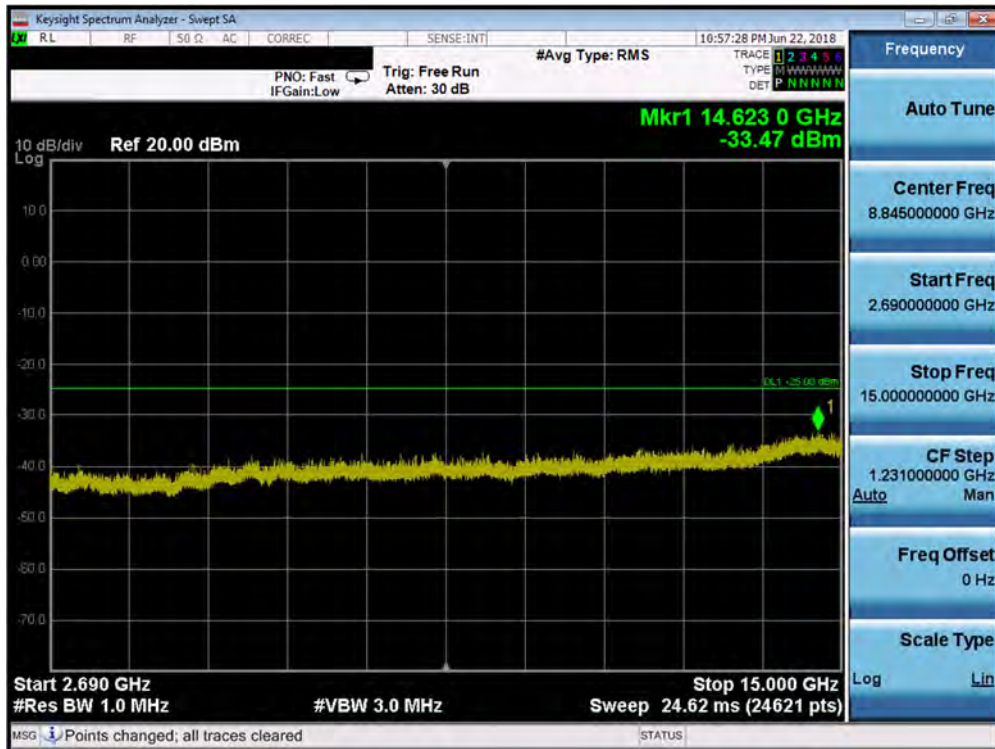


Plot 7-159. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

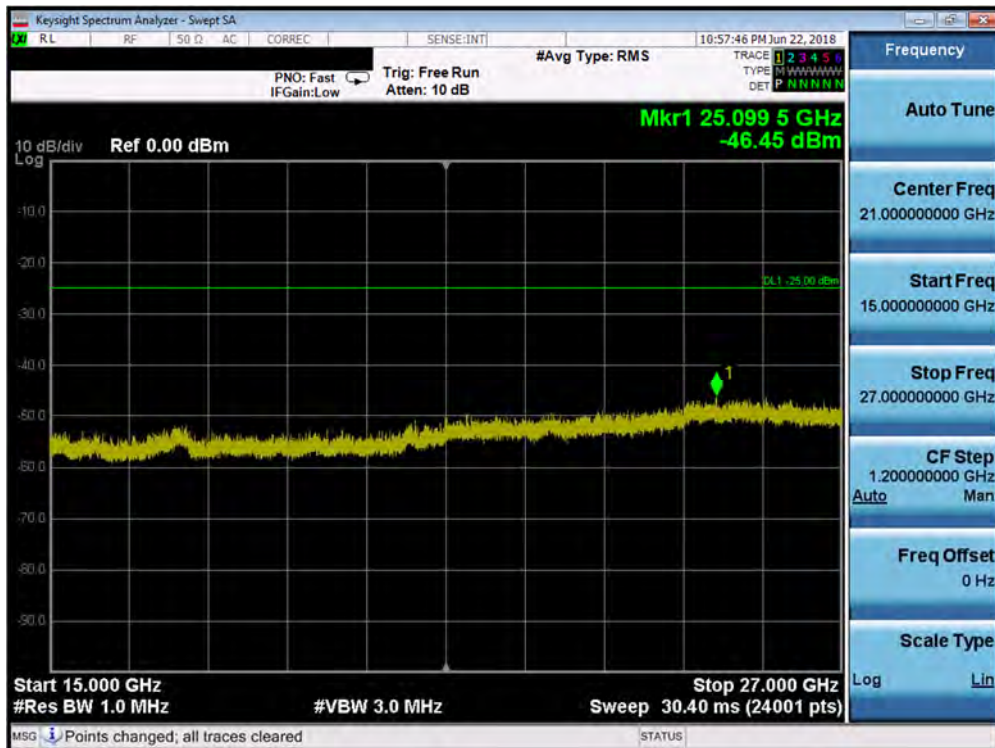


Plot 7-160. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 99 of 221

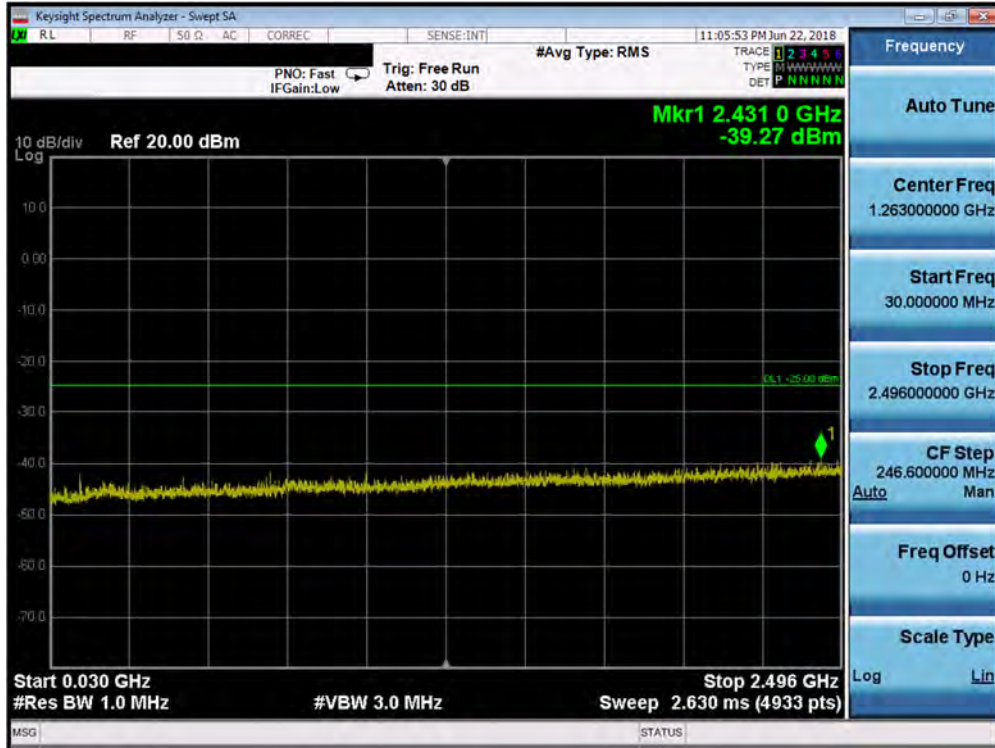


Plot 7-161. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

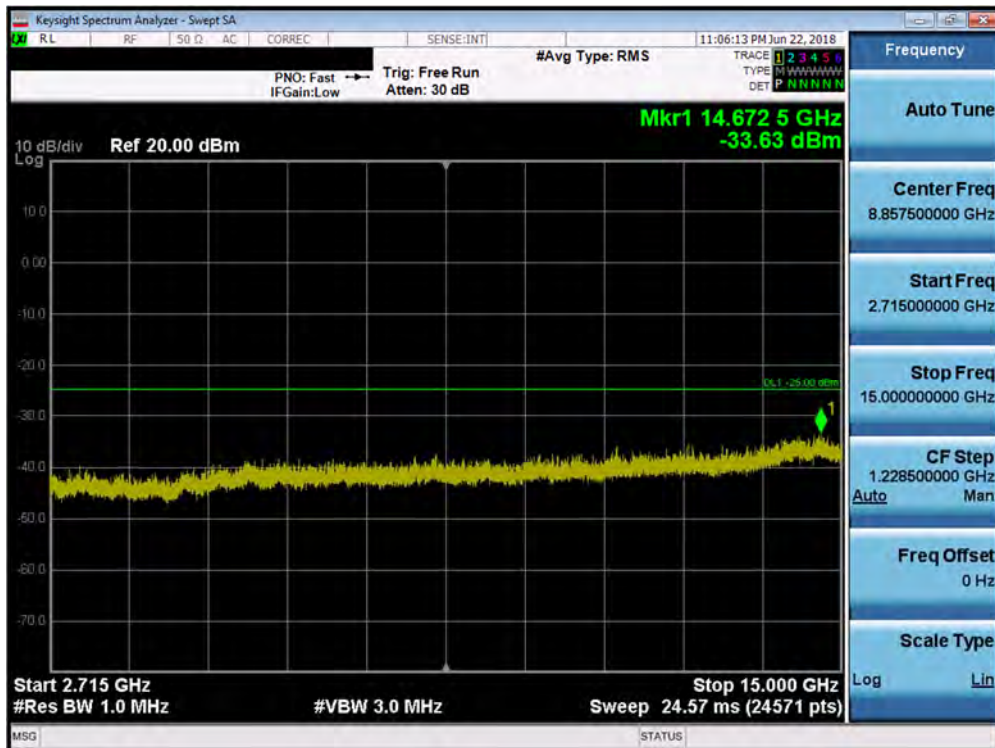


Plot 7-162. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 100 of 221



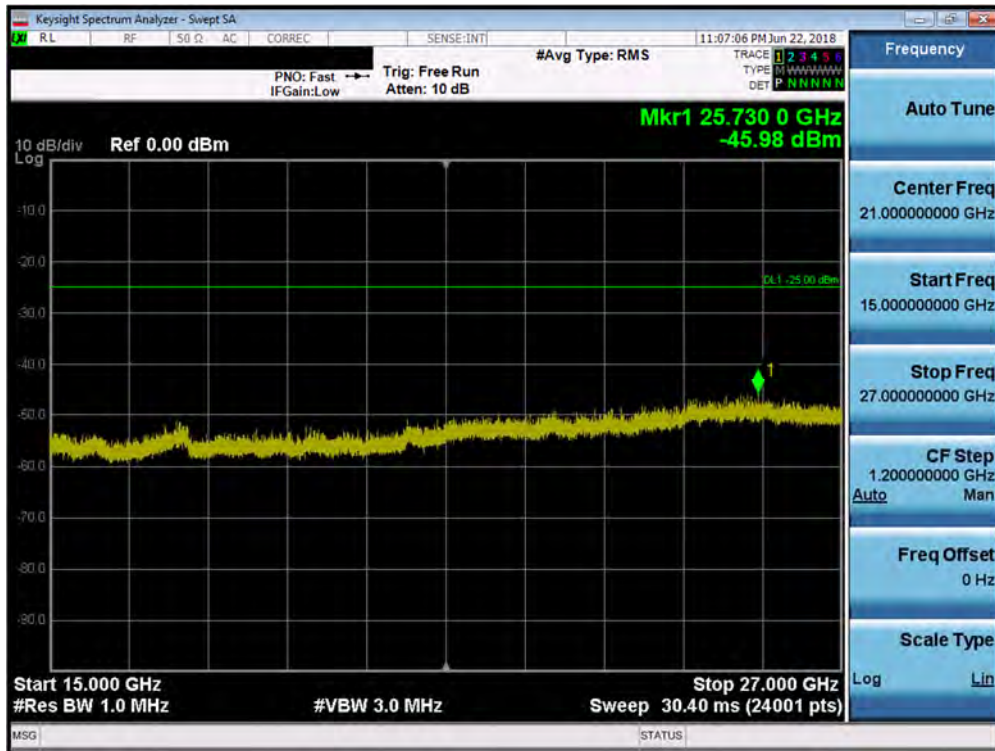
Plot 7-163. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-164. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 101 of 221





Plot 7-165. Conducted Spurious Plot (Band 41 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet	Page 102 of 221	

## 7.4 Band Edge Emissions at Antenna Terminal

### Test Overview

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

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

*The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.*

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  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 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1806060119-03.A3L	<b>Test Dates:</b> 6/6 - 6/27/2018	<b>EUT Type:</b> Portable Tablet	Page 103 of 221	

**Test Notes**

Per 22.917(b) 24.238(a) 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Per 27.53(g) for operations in the 698-746 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.

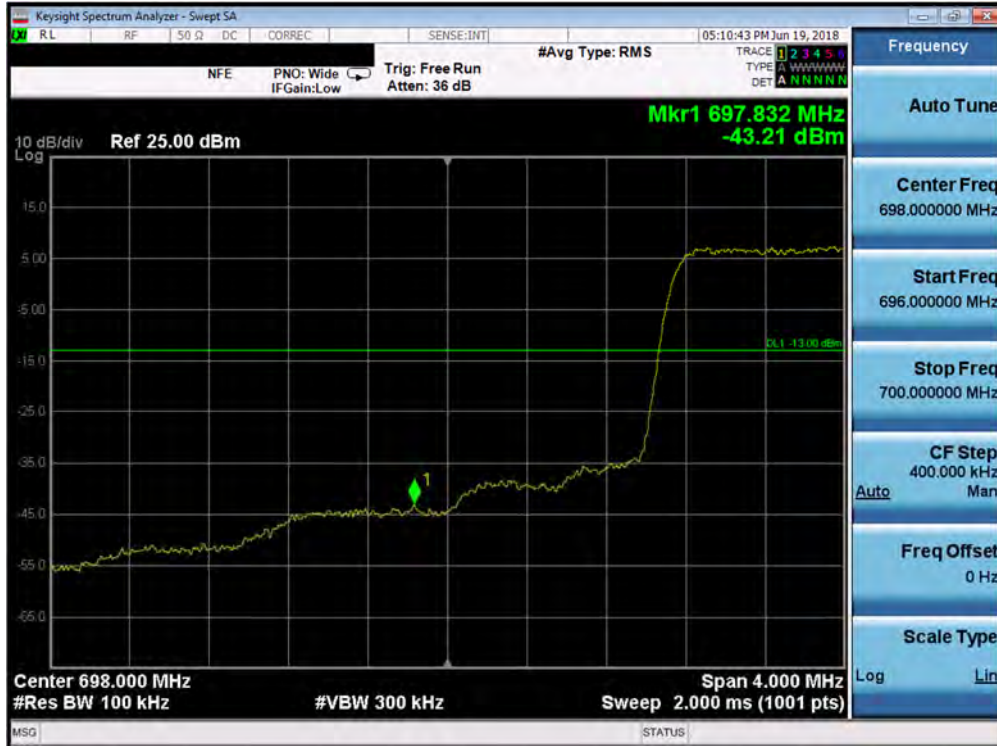
Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

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.

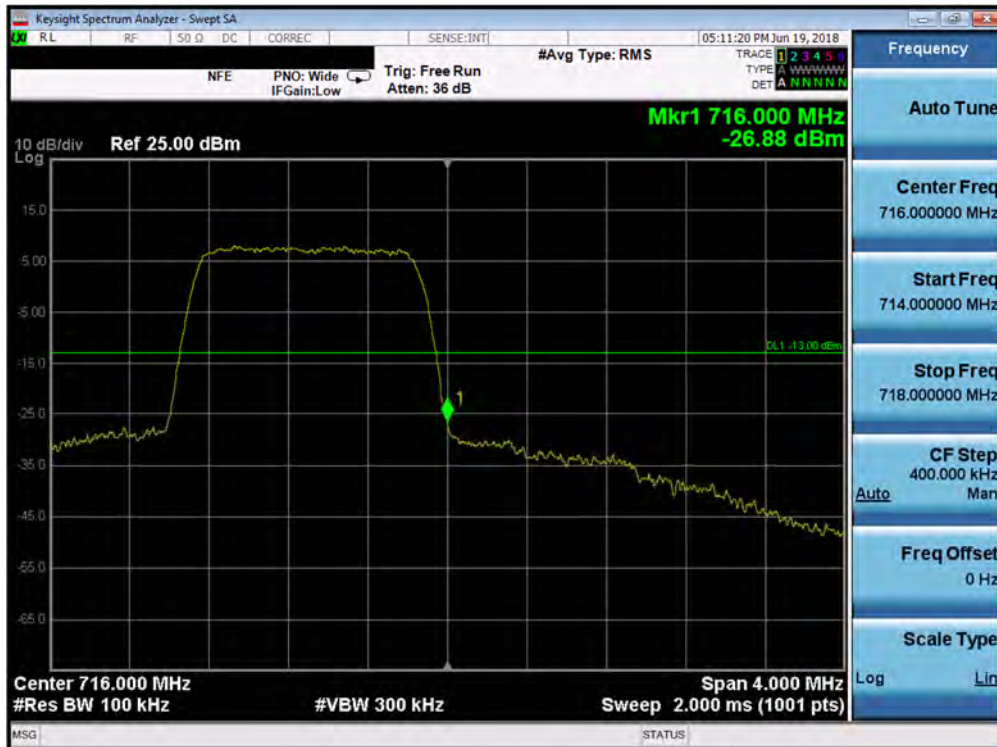
Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge,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

<b>FCC ID:</b> A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1806060119-03.A3L	<b>Test Dates:</b> 6/6 - 6/27/2018	<b>EUT Type:</b> Portable Tablet	Page 104 of 221

**Band 12**

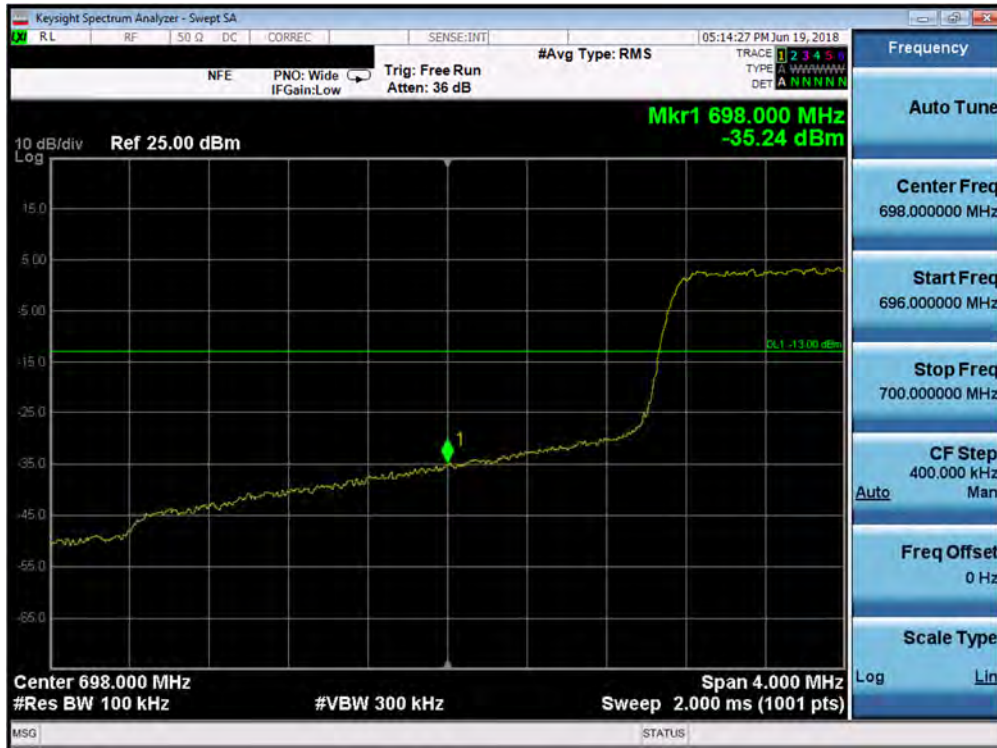


Plot 7-166. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-167. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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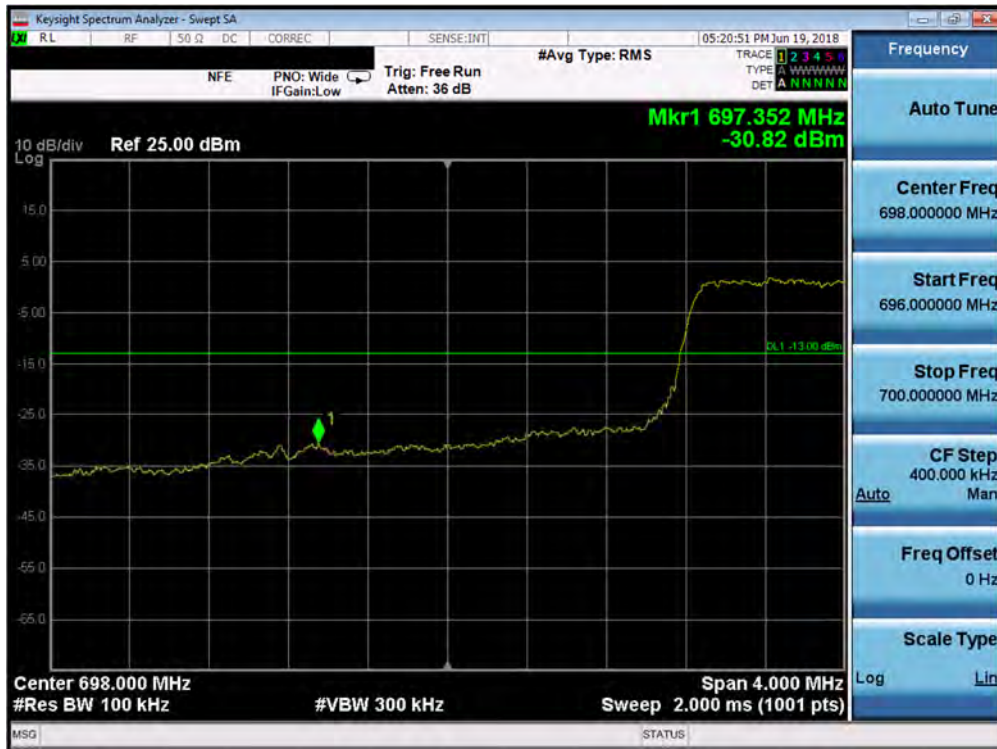


Plot 7-168. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

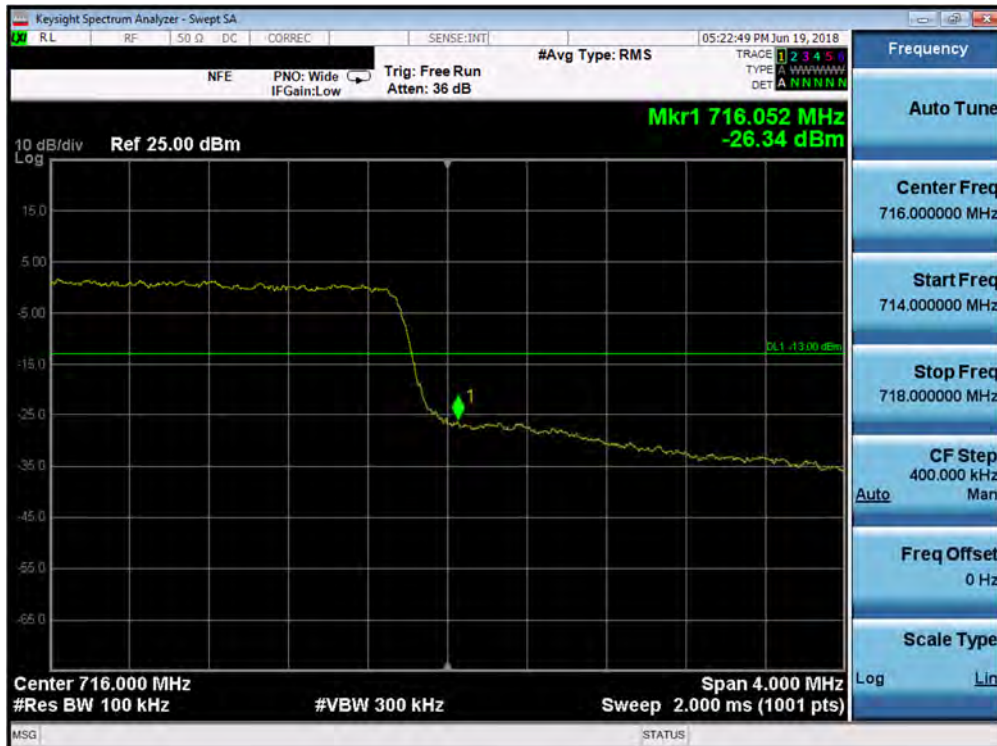


Plot 7-169. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-170. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-171. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 107 of 221



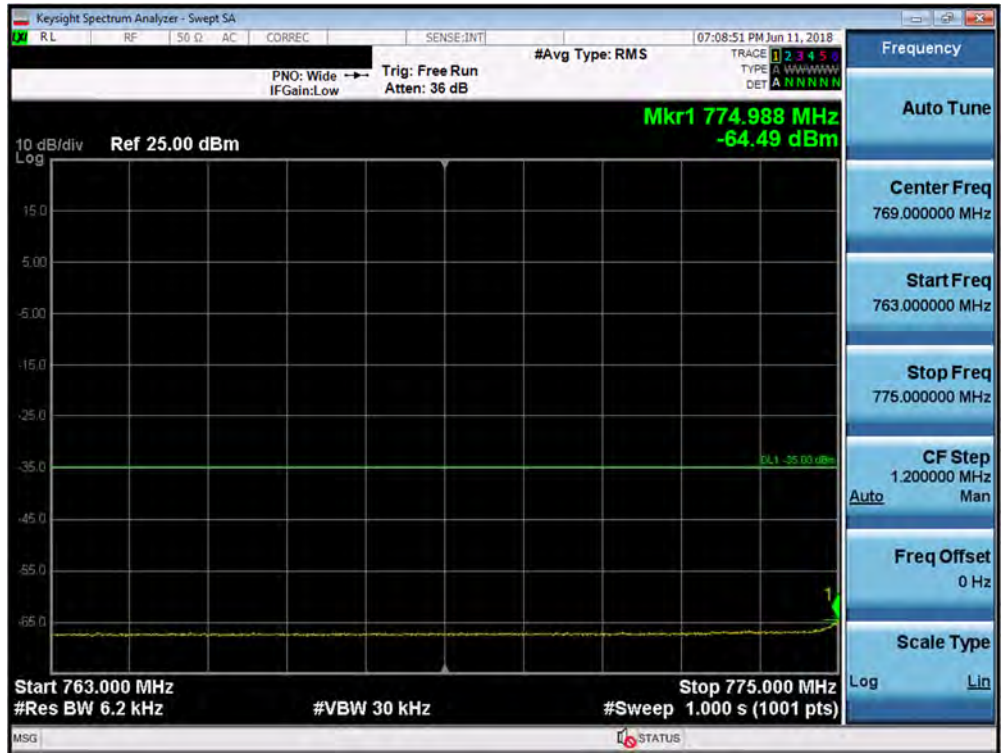
Plot 7-172. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



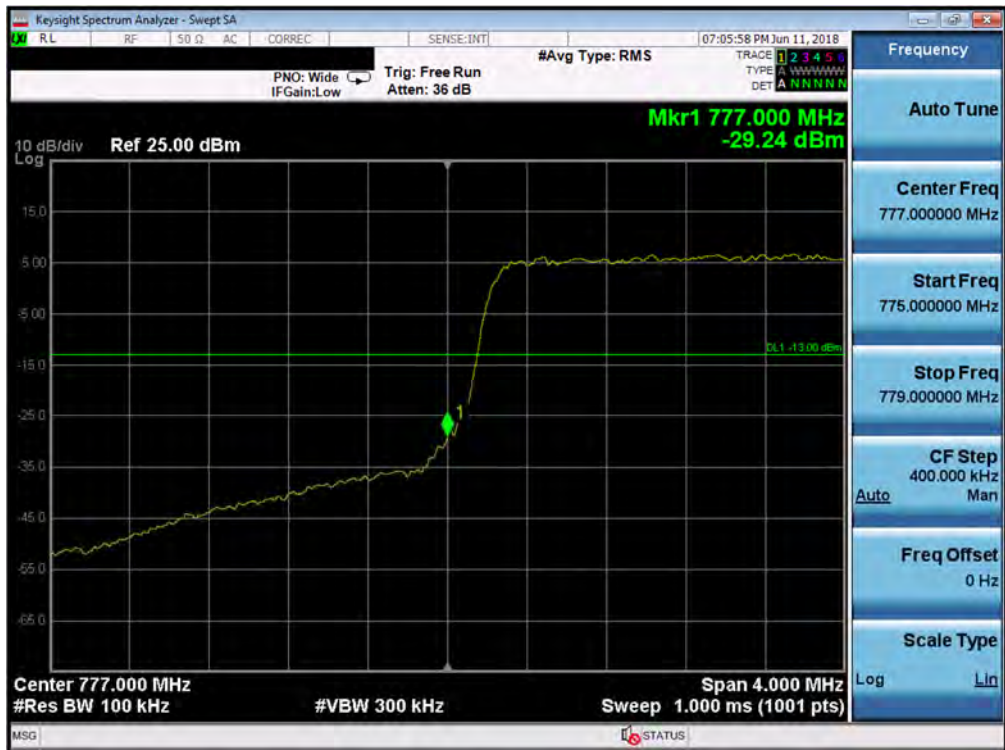
Plot 7-173. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 108 of 221

# Band 13



Plot 7-174. Lower Emission Mask Edge Plot (Band 13 – 5.0MHz QPSK – Full RB Configuration)



Plot 7-175. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-176. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

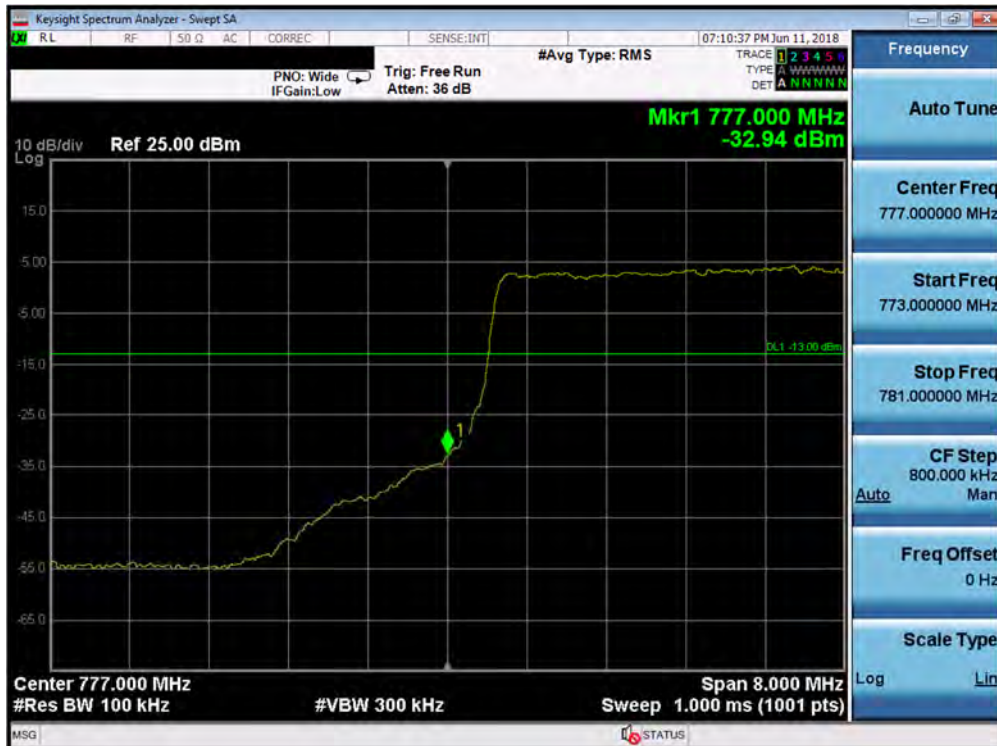


Plot 7-177. Upper Emission Mask Edge Plot (Band 13 – 5.0MHz QPSK – Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 110 of 221

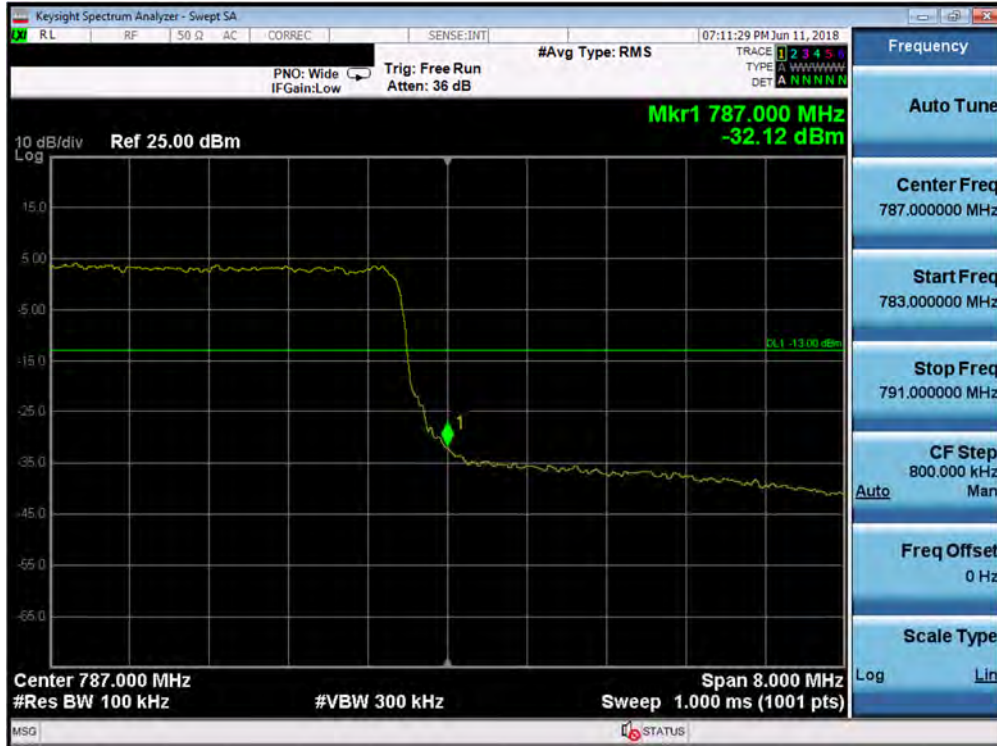


Plot 7-178. Lower Emission Mask Edge Plot (Band 13 – 10.0MHz QPSK – Full RB Configuration)



Plot 7-179. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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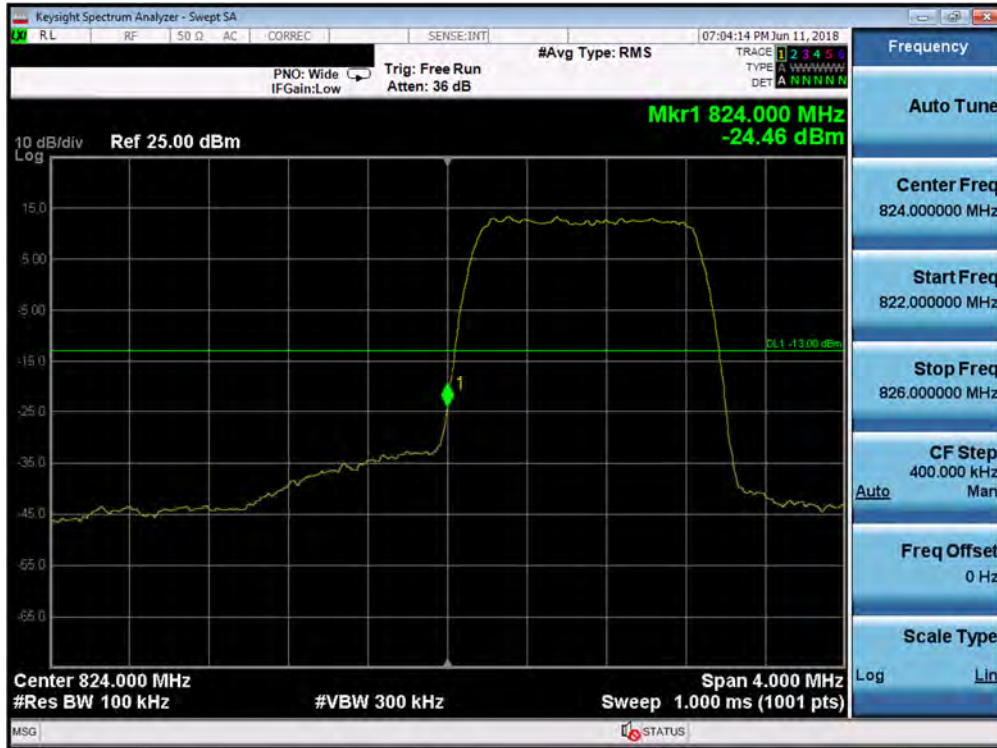
Plot 7-180. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



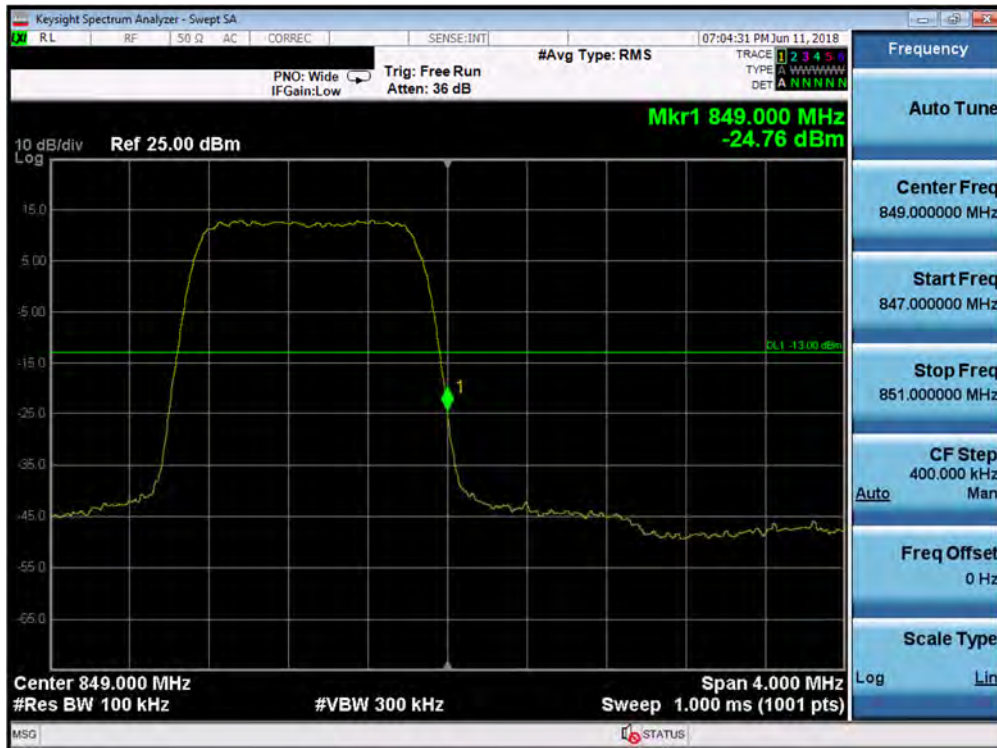
Plot 7-181. Upper Emission Mask Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 112 of 221

### Band 26/5

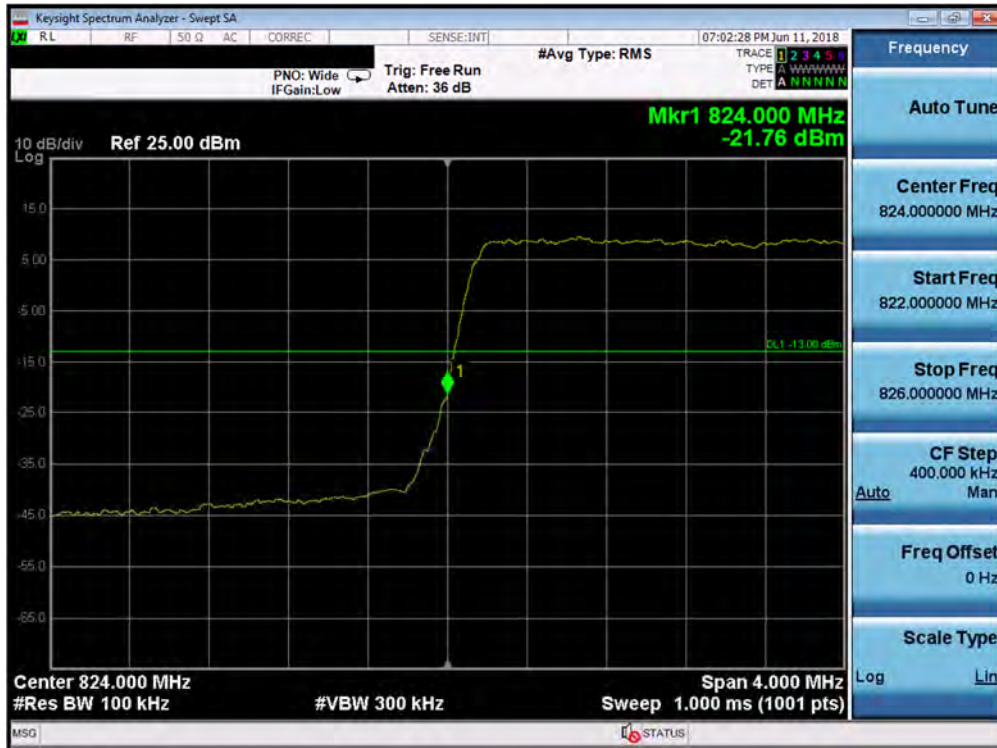


Plot 7-182. Lower Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-183. Upper Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 113 of 221

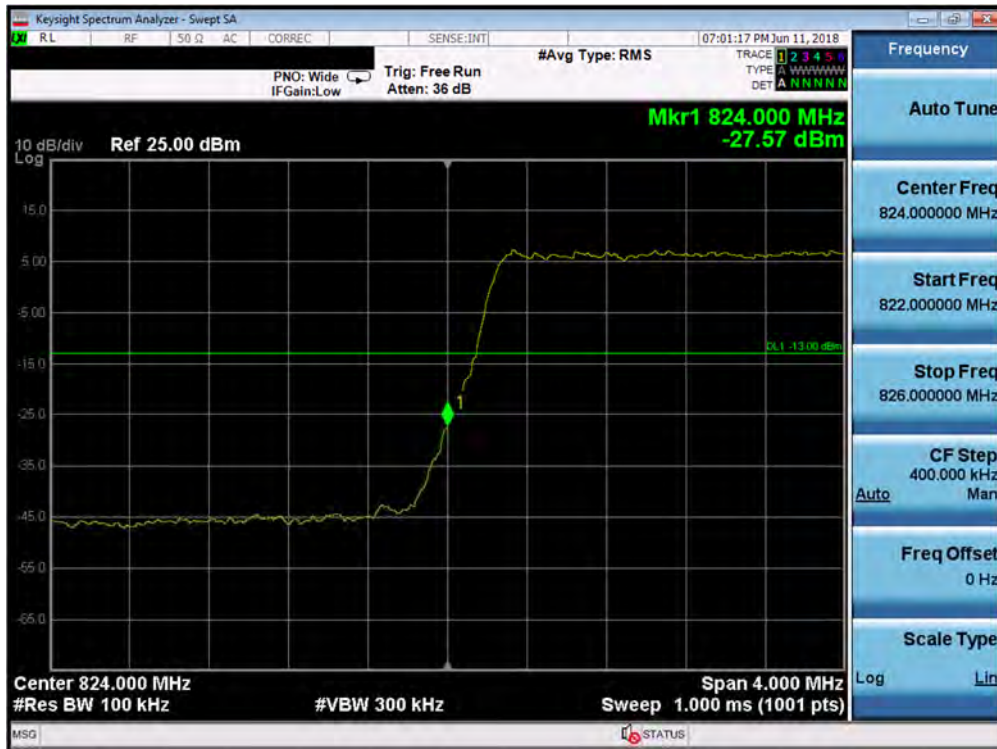


Plot 7-184. Lower Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-185. Upper Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 114 of 221

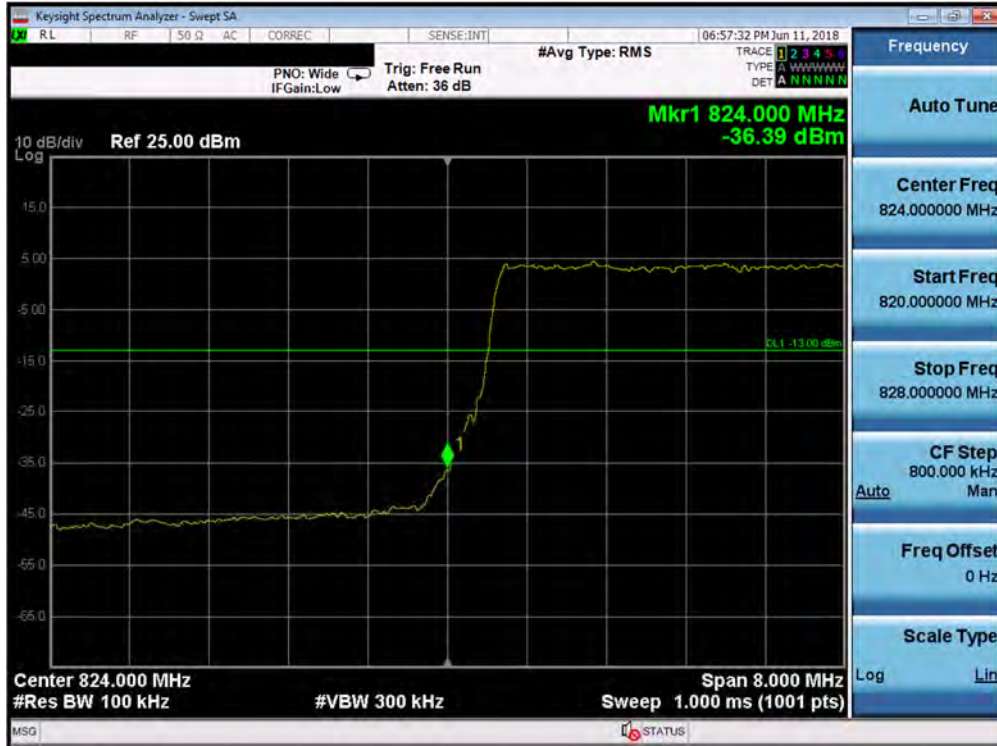


Plot 7-186. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-187. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 115 of 221

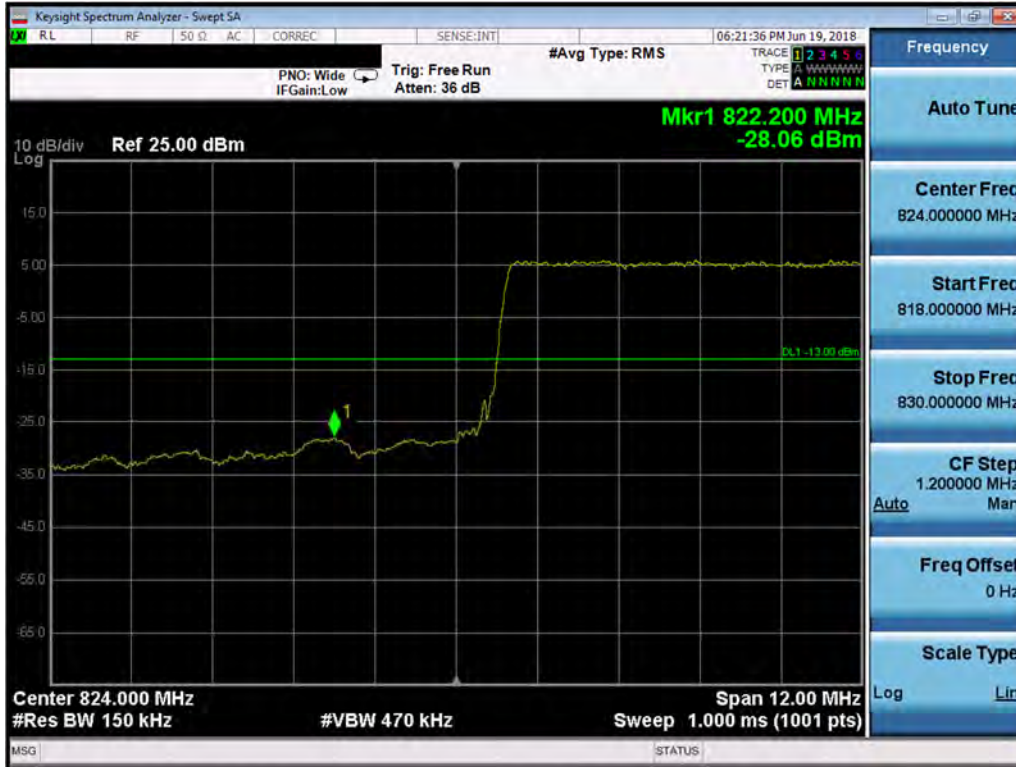


Plot 7-188. Lower Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

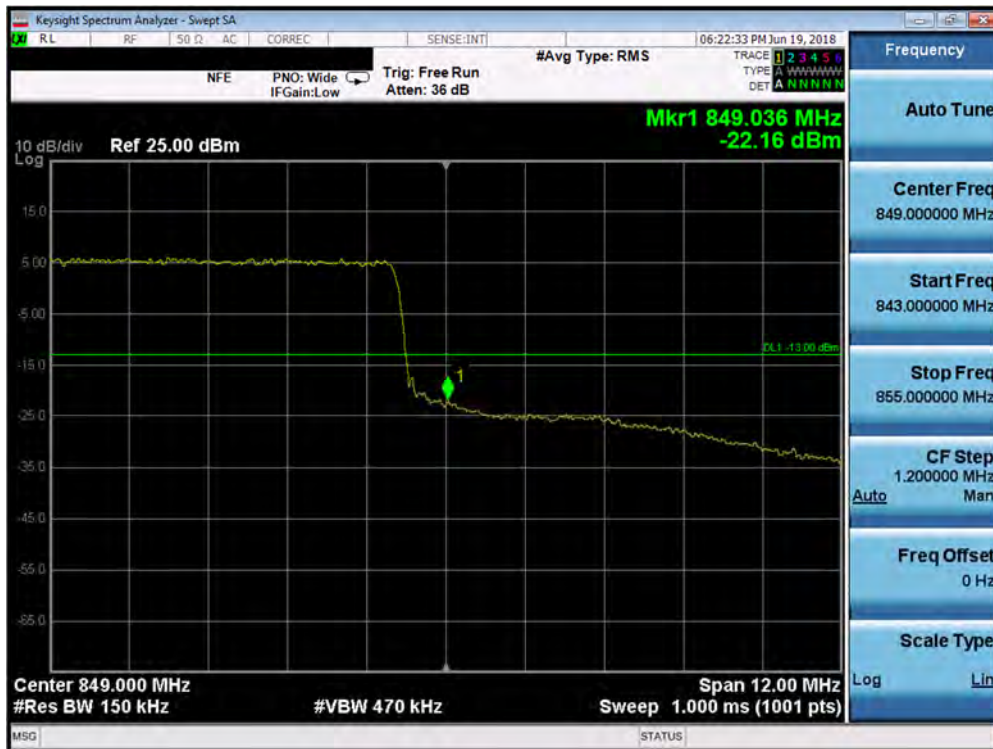


Plot 7-189. Upper Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 116 of 221



Plot 7-190. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

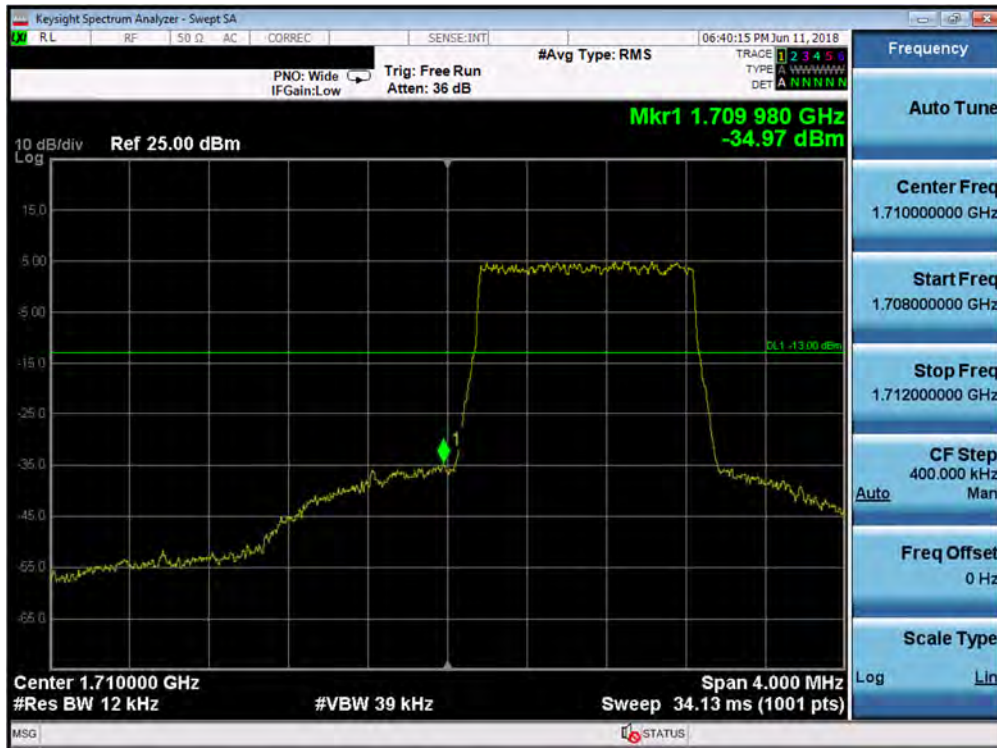


Plot 7-191. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

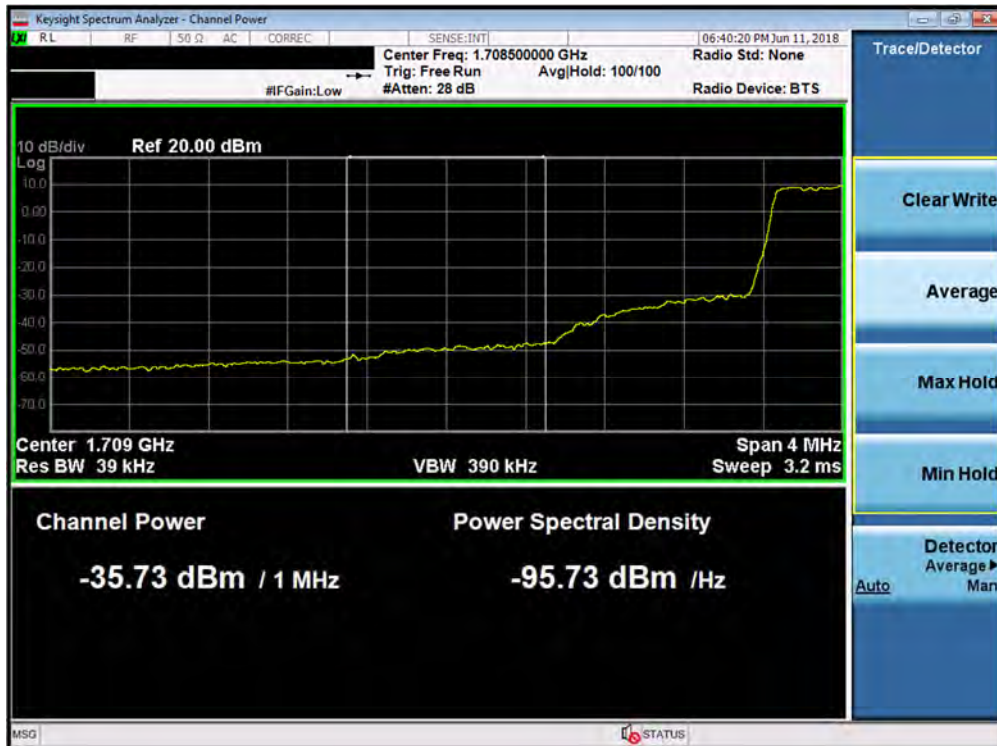
FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 117 of 221



**Band 4**



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

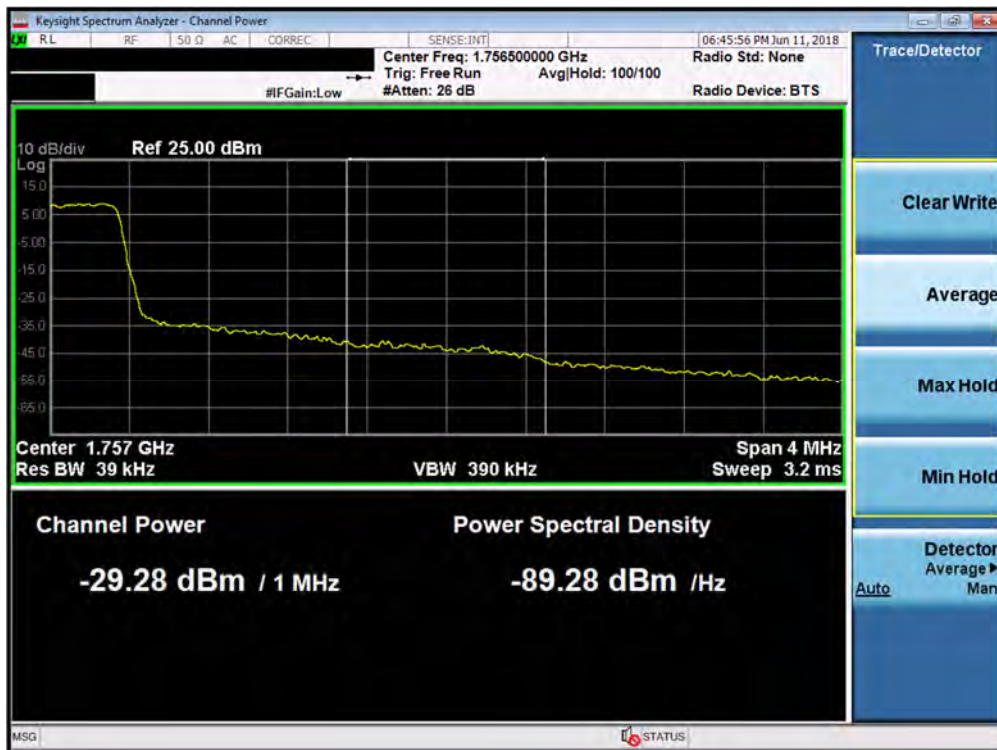


Plot 7-193. Lower Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 118 of 221

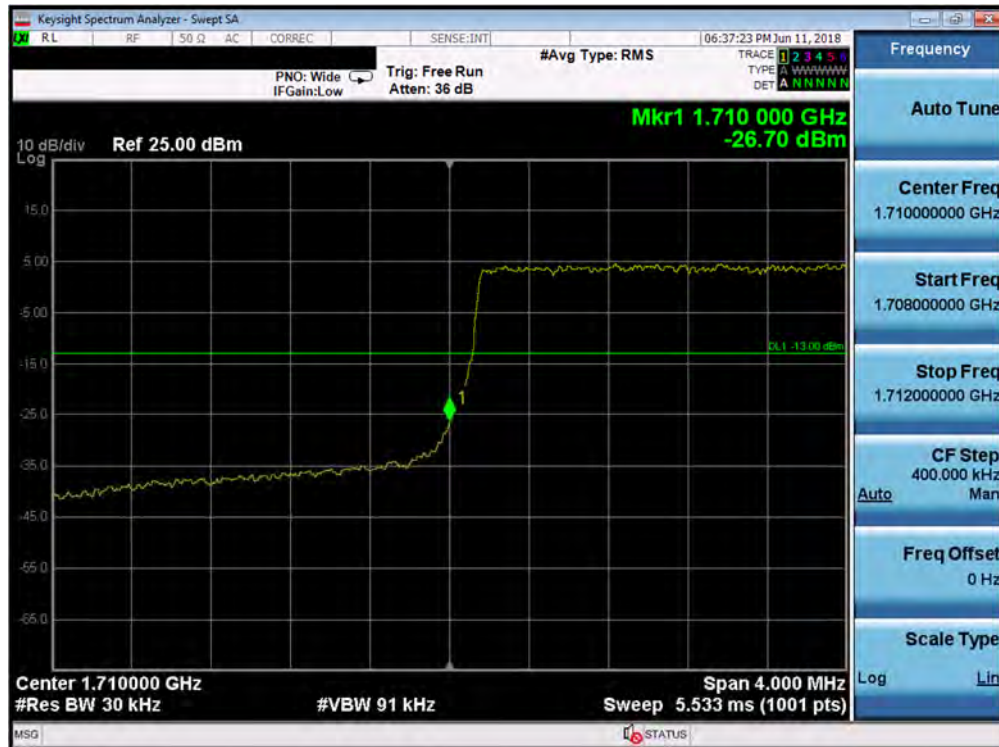


Plot 7-194. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-195. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 119 of 221

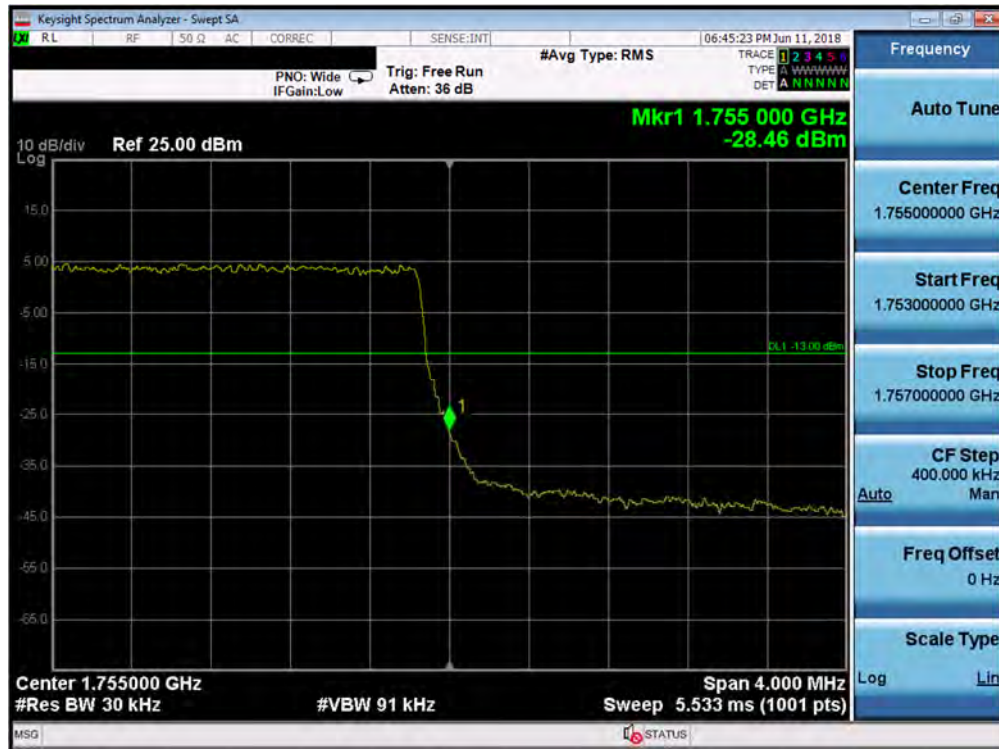


Plot 7-196. Lower Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-197. Lower Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 120 of 221

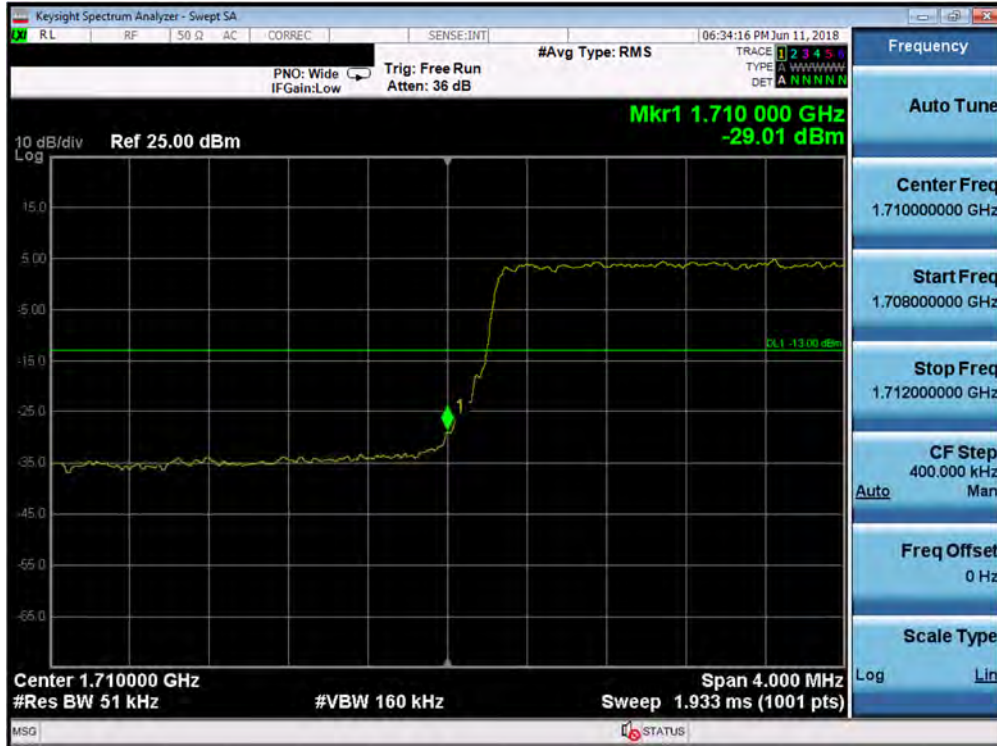


Plot 7-198. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

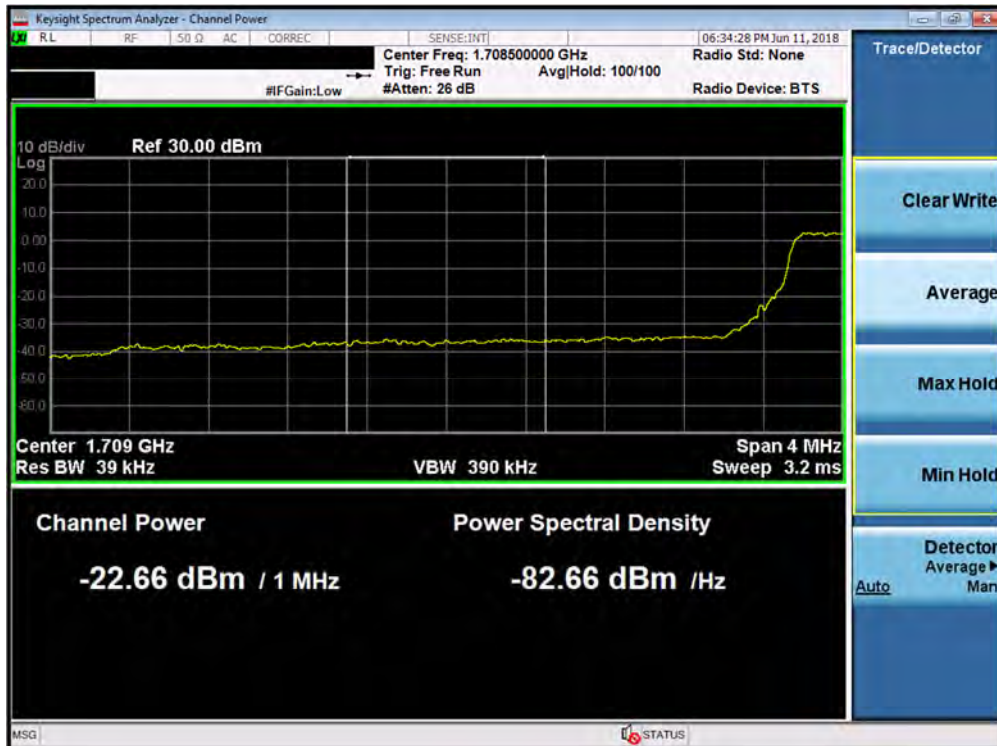


Plot 7-199. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 121 of 221



Plot 7-200. Lower Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

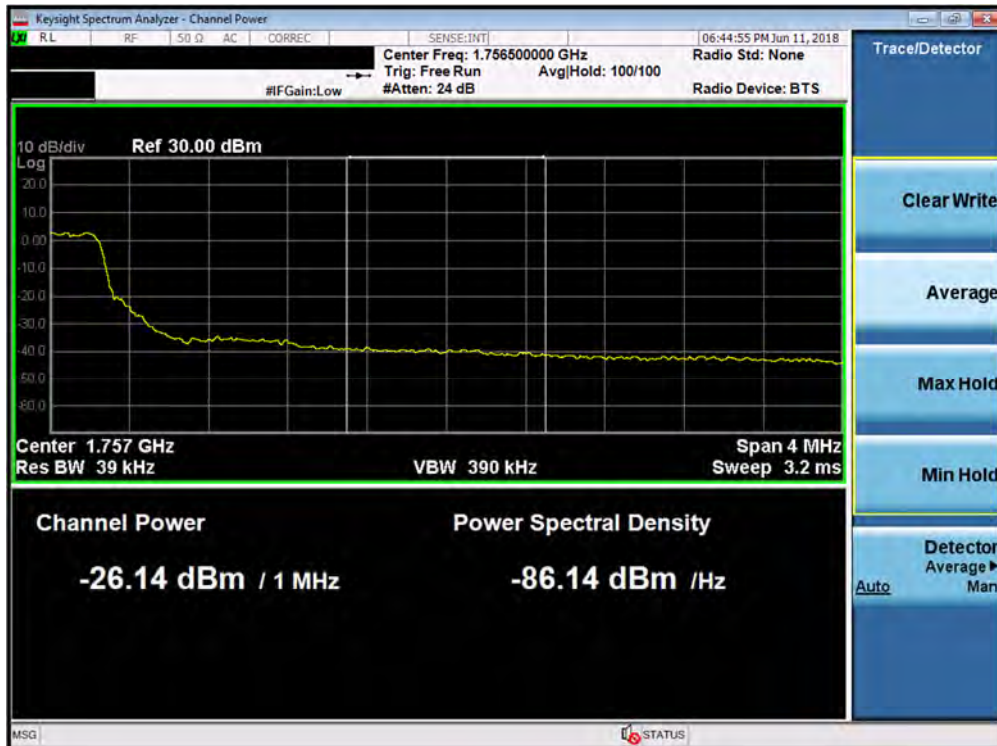


Plot 7-201. Lower Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 122 of 221



Plot 7-202. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

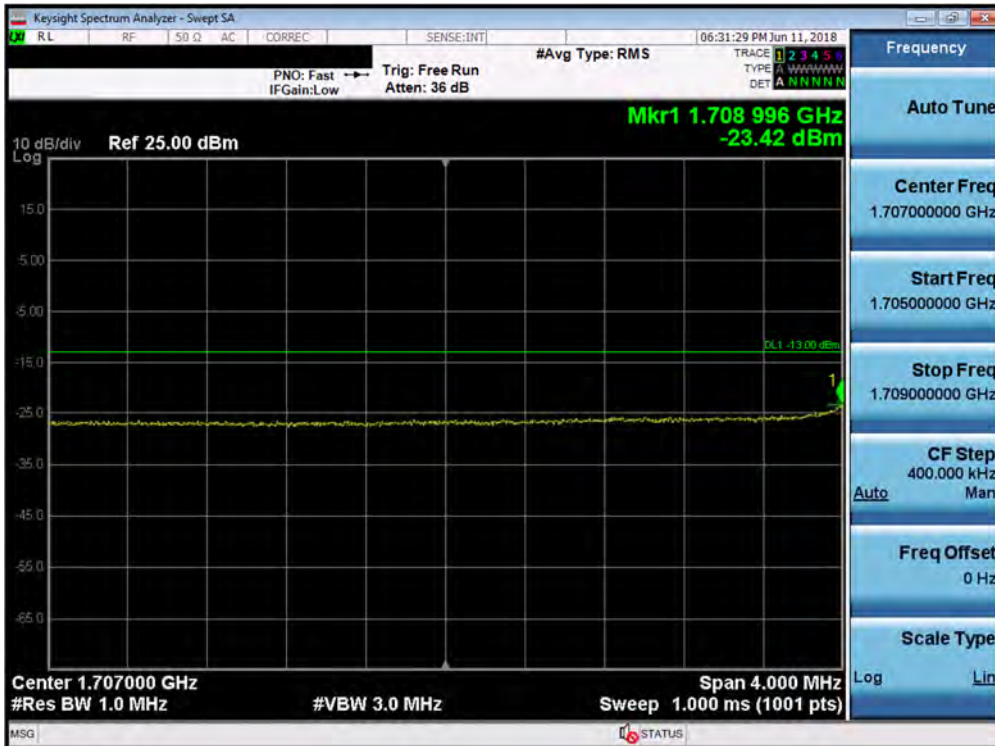


Plot 7-203. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 123 of 221



Plot 7-204. Lower Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-205. Lower Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 124 of 221



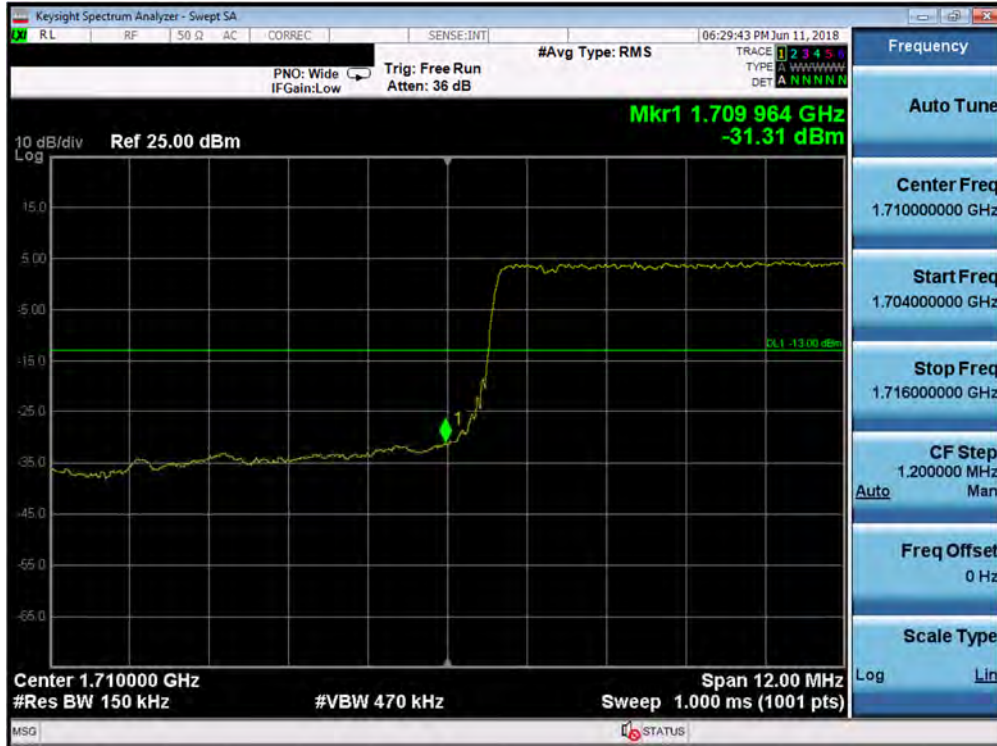
Plot 7-206. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



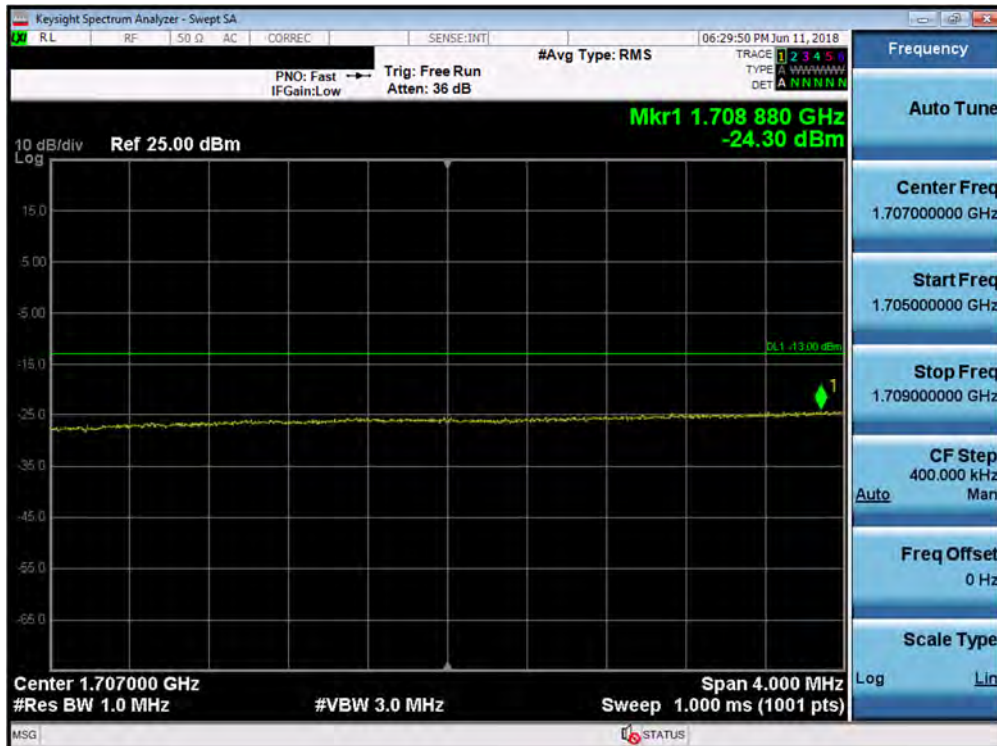
Plot 7-207. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 125 of 221



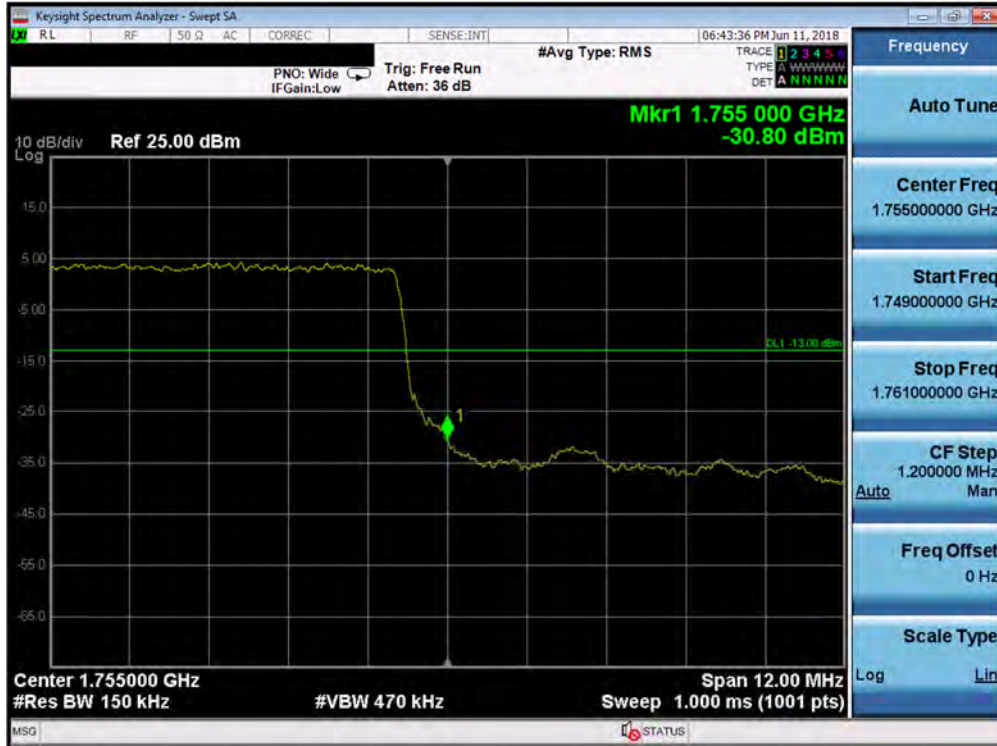


Plot 7-208. Lower Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

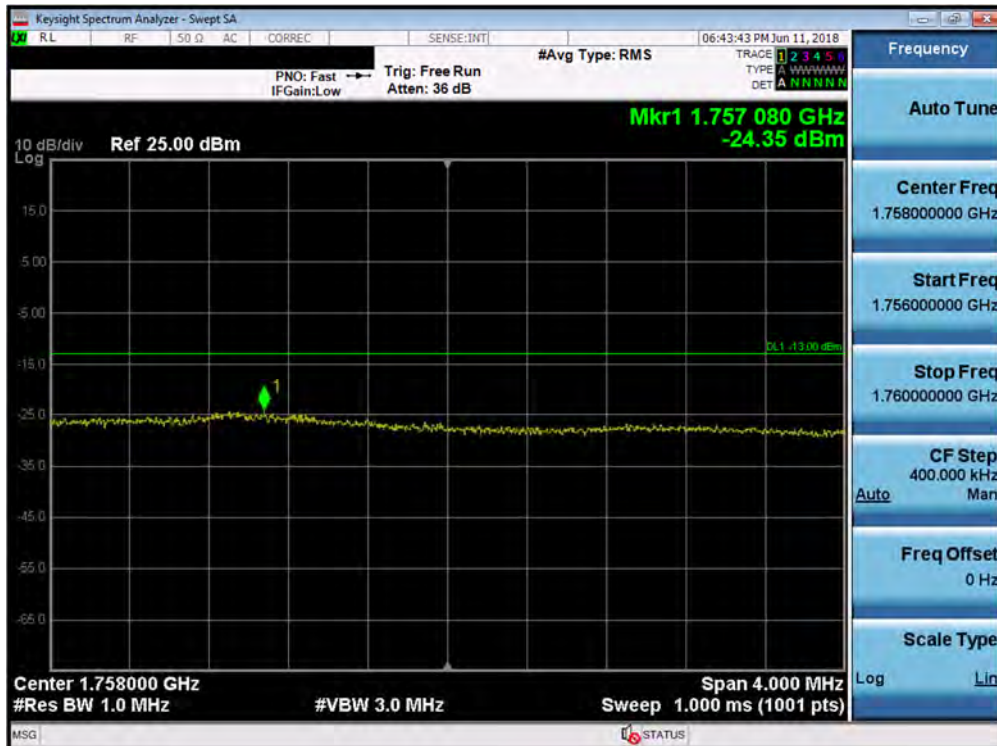


Plot 7-209. Lower Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 126 of 221

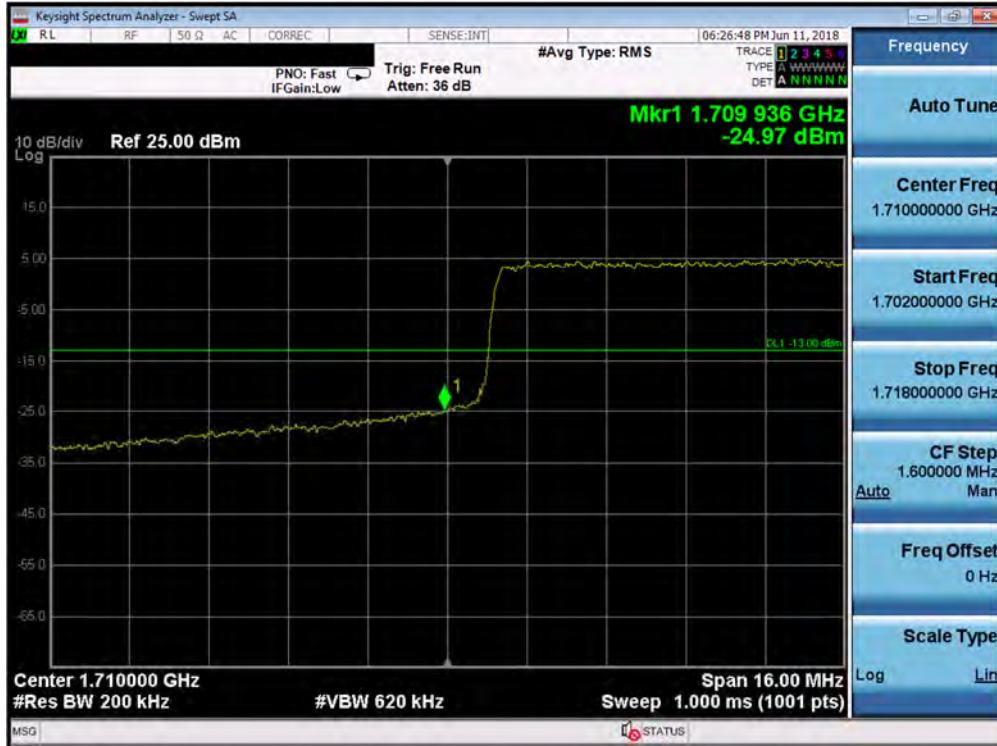


Plot 7-210. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

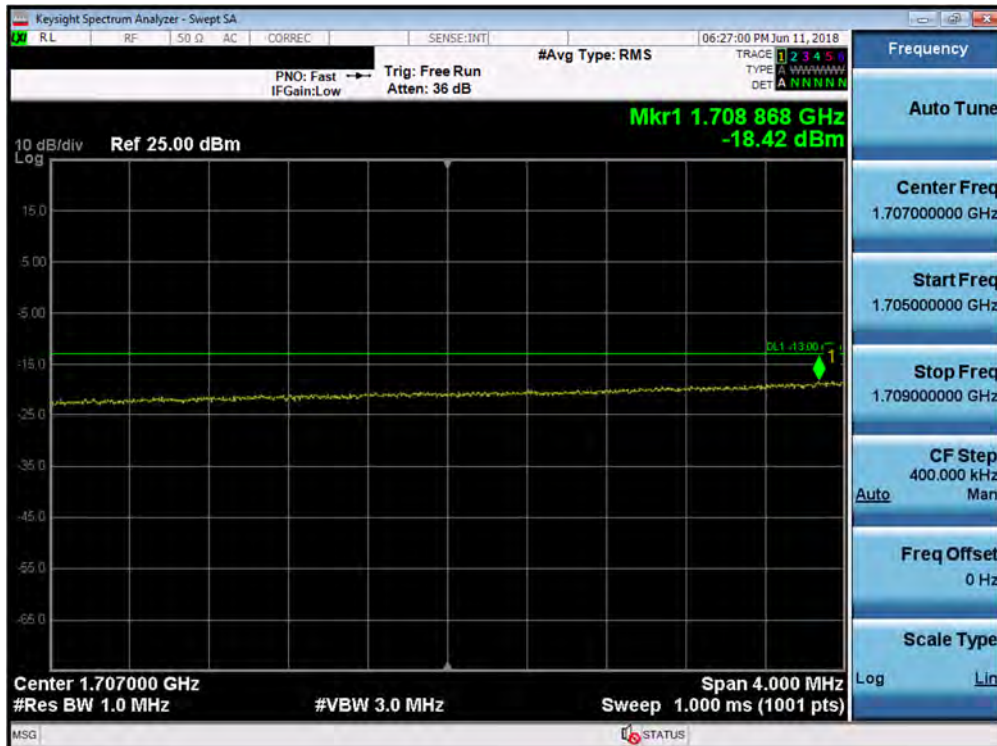


Plot 7-211. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 127 of 221



Plot 7-212. Lower Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

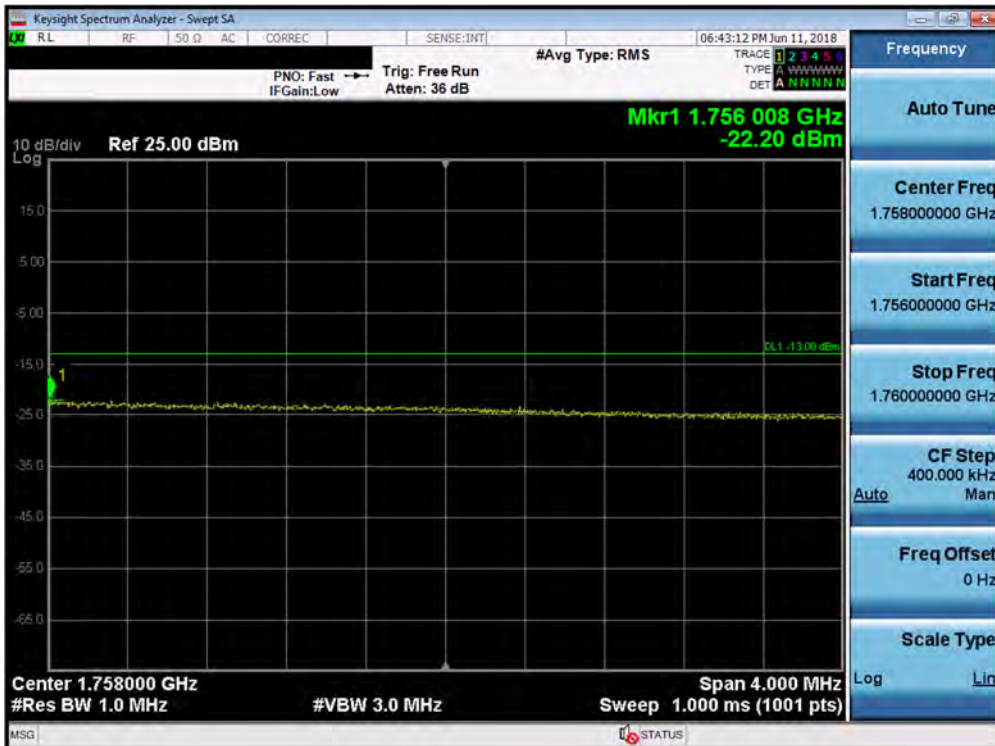


Plot 7-213. Lower Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 128 of 221



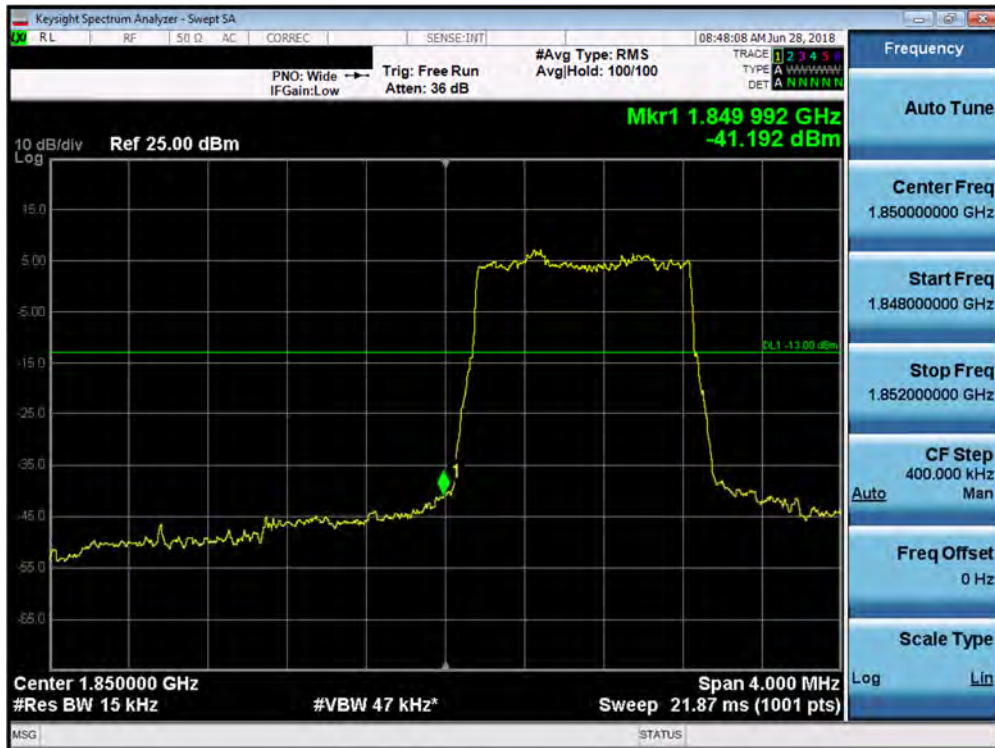
Plot 7-214. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



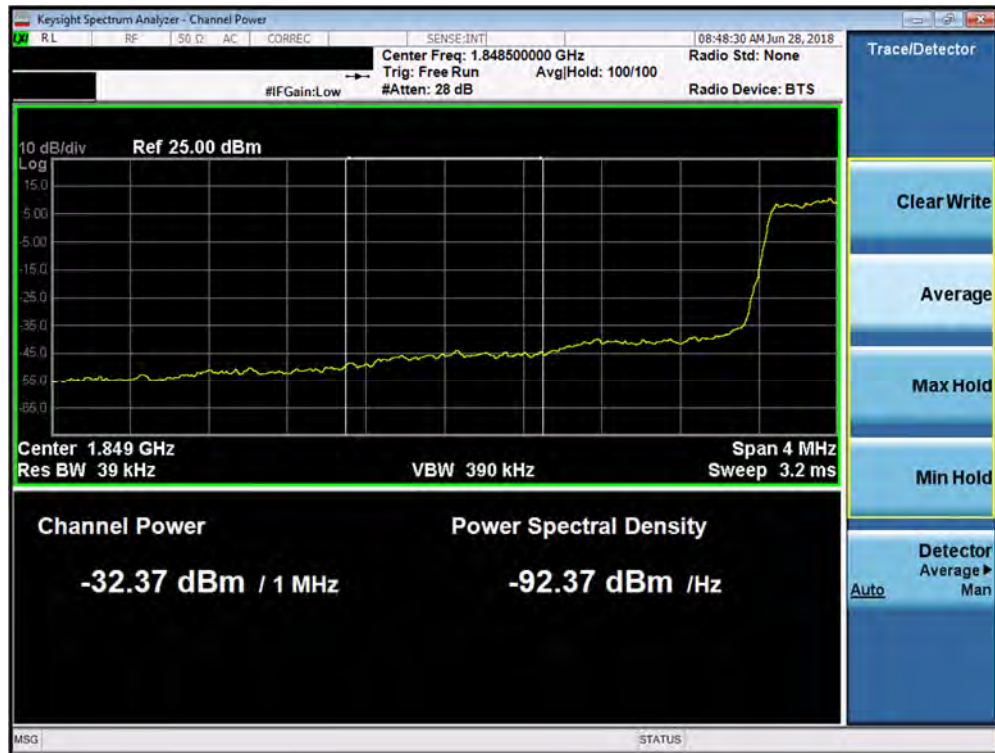
Plot 7-215. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 129 of 221

**Band 25/2**



Plot 7-216. Lower Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)

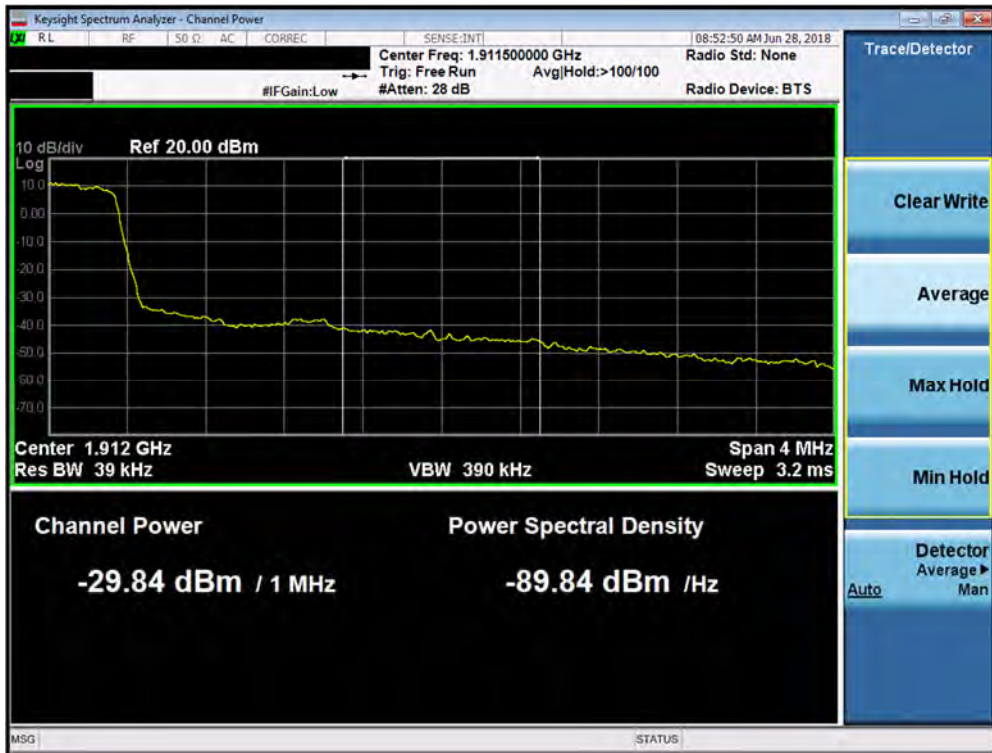


Plot 7-217. Lower Extended Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 130 of 221



Plot 7-218. Upper Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)

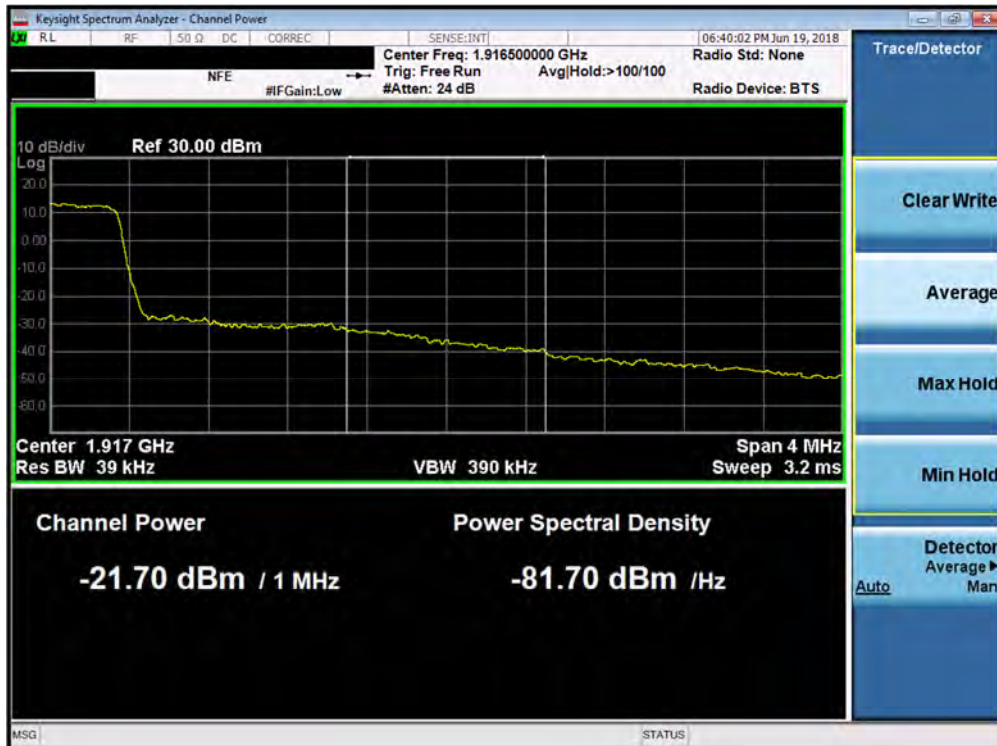


Plot 7-219. Upper Extended Band Edge Plot (Band 2 – 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 131 of 221

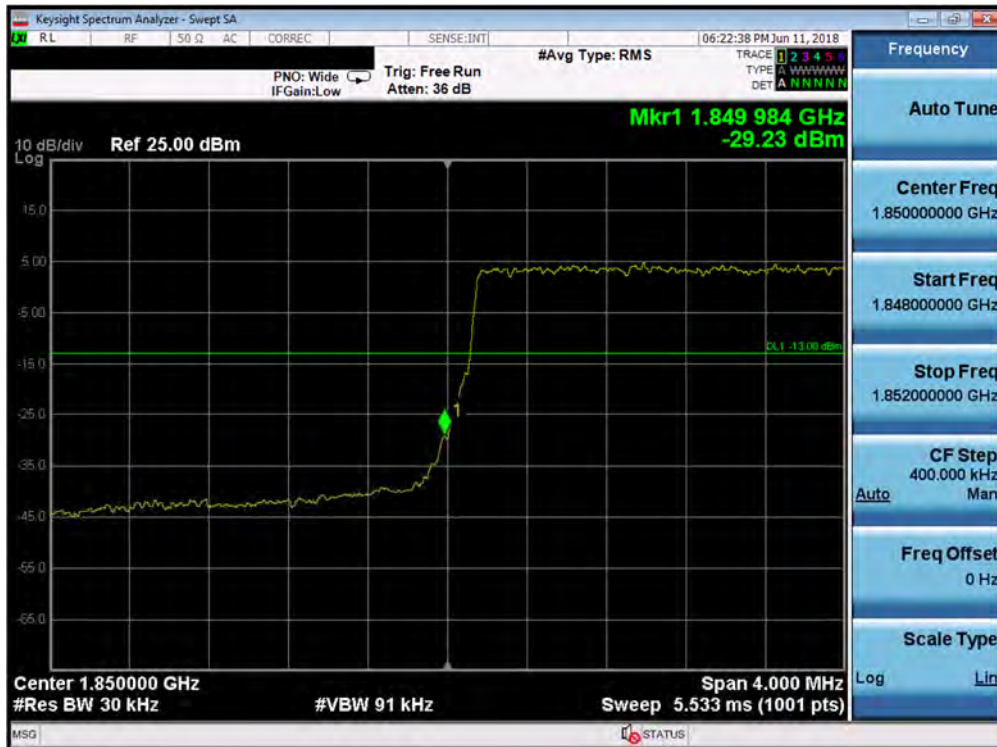


Plot 7-220. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-221. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 132 of 221



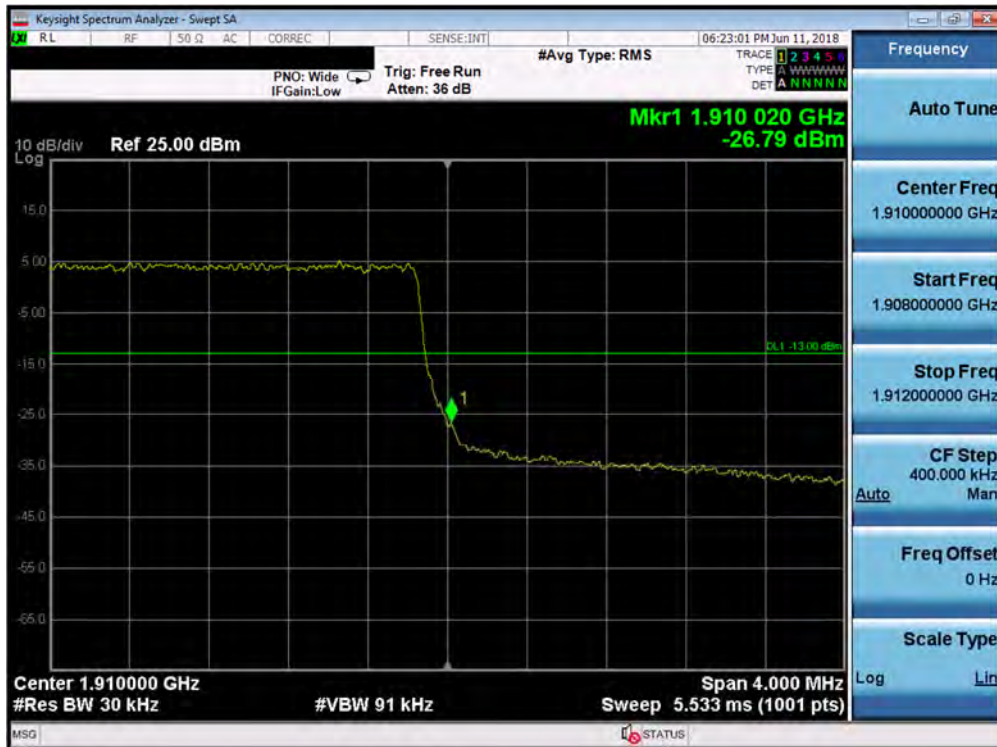
Plot 7-222. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)



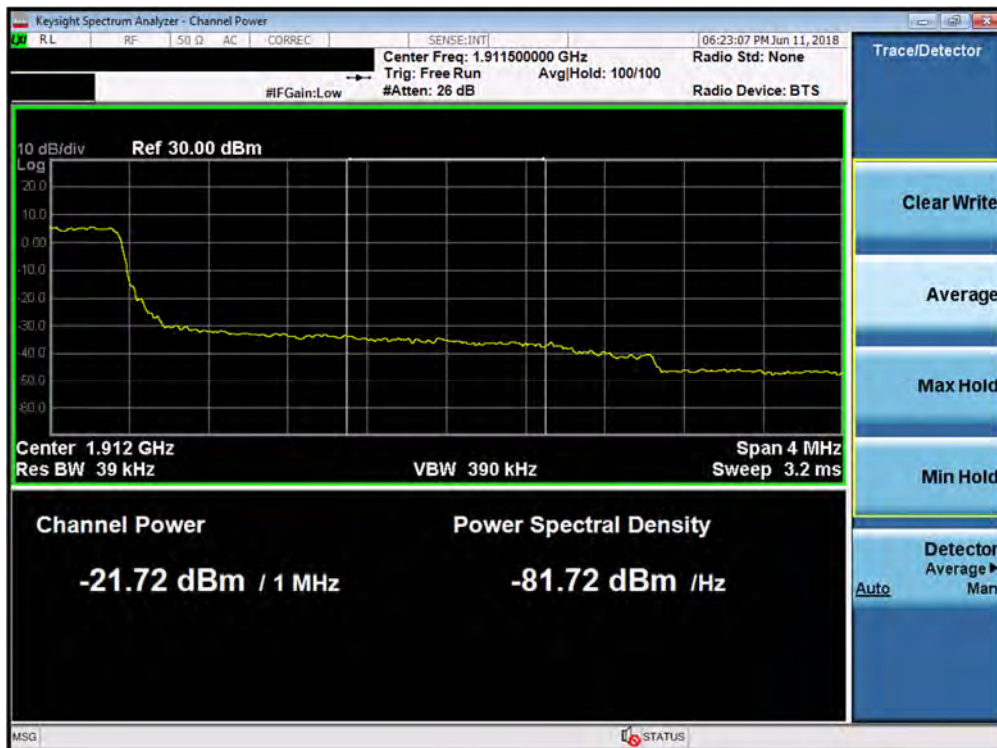
Plot 7-223. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 133 of 221





Plot 7-224. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

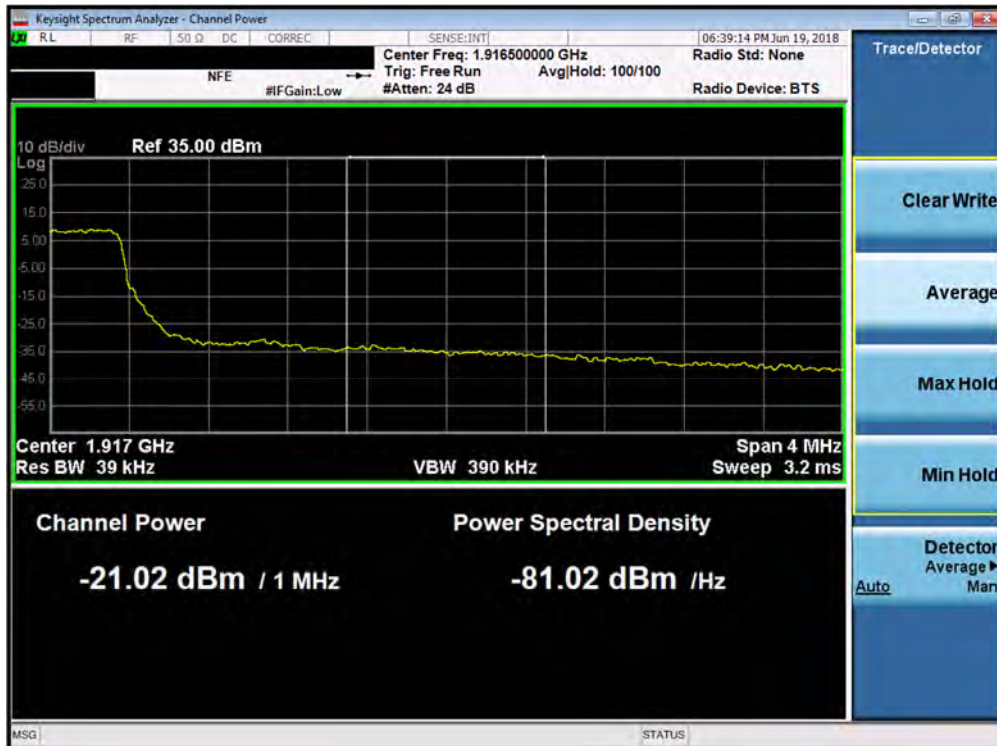


Plot 7-225. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 134 of 221

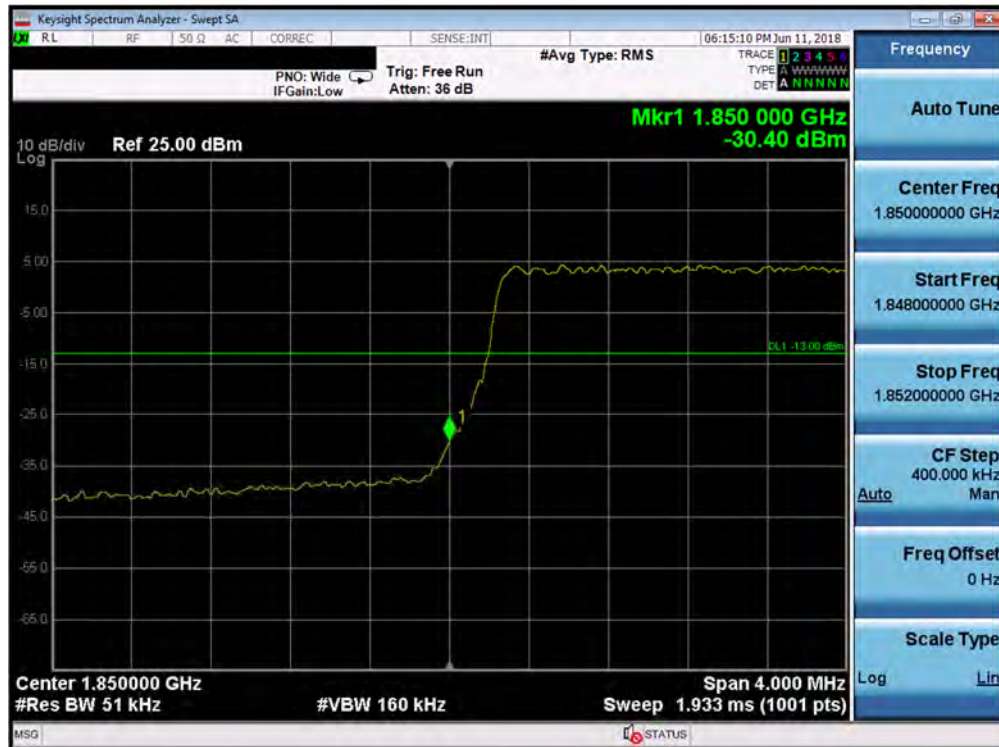


Plot 7-226. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-227. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 135 of 221



Plot 7-228. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-229. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 136 of 221



Plot 7-230. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

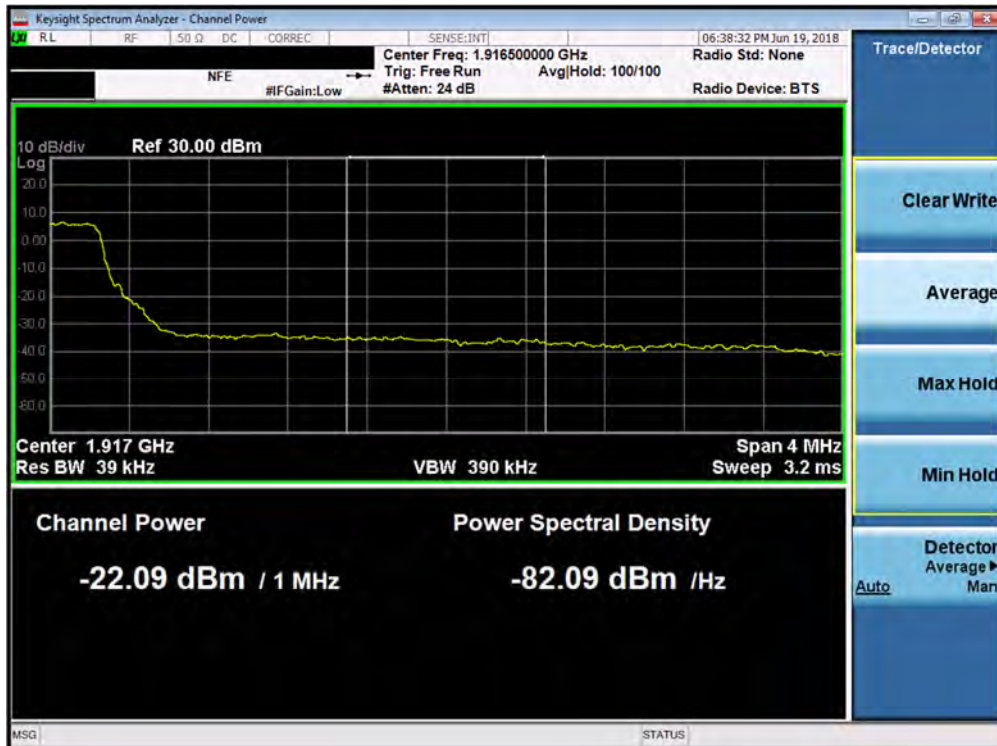


Plot 7-231. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 137 of 221

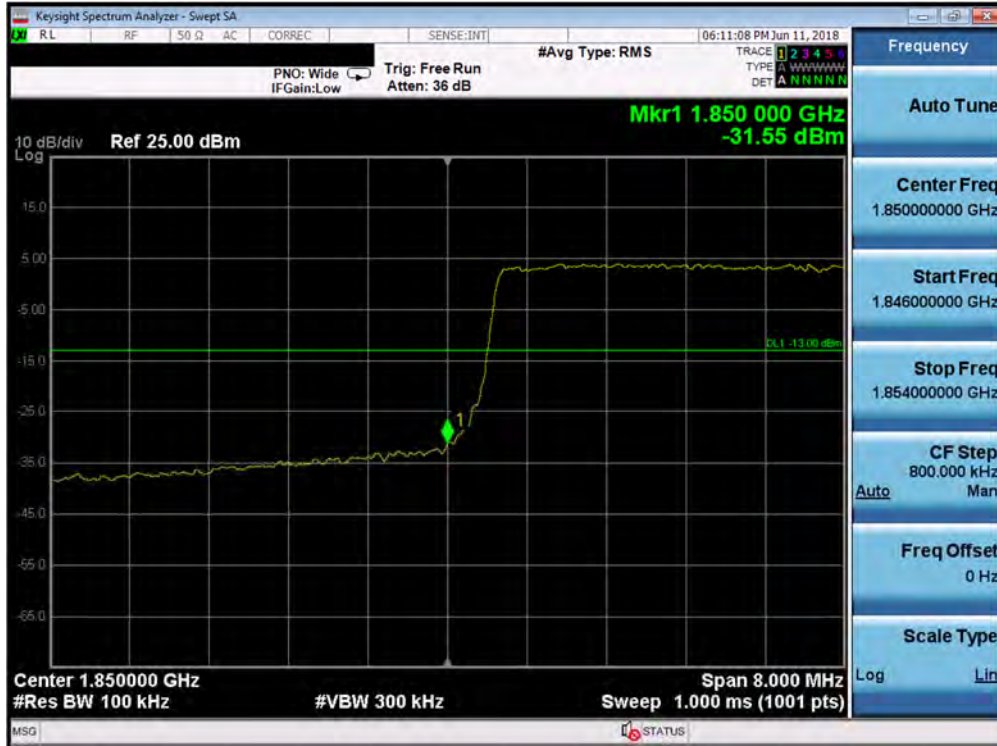


Plot 7-232. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

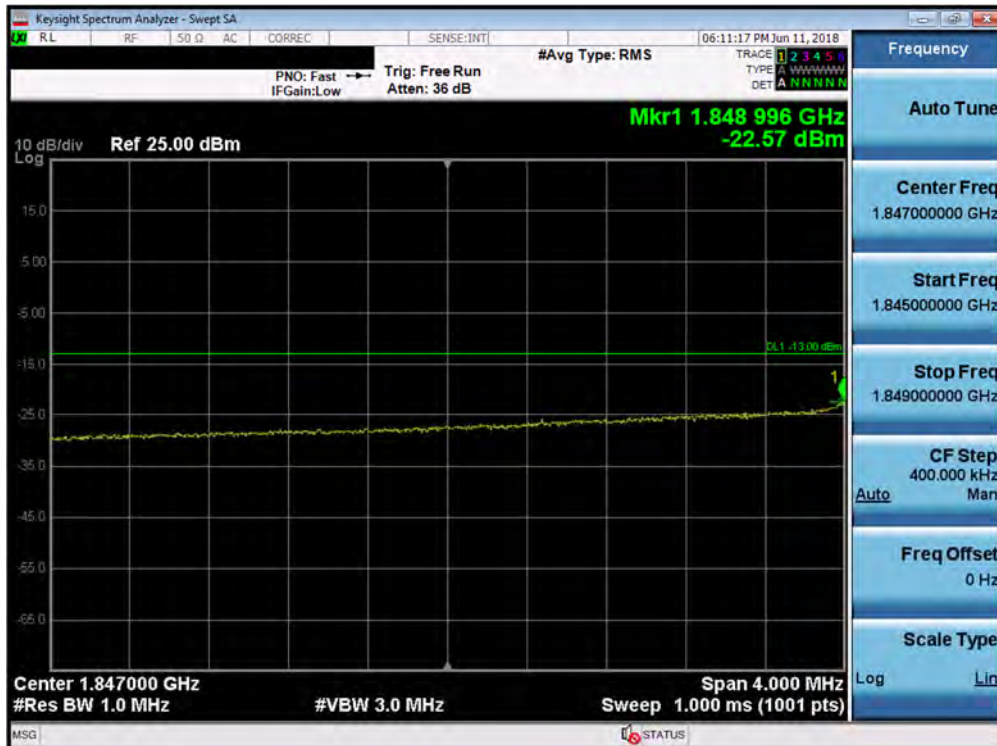


Plot 7-233. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-234. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

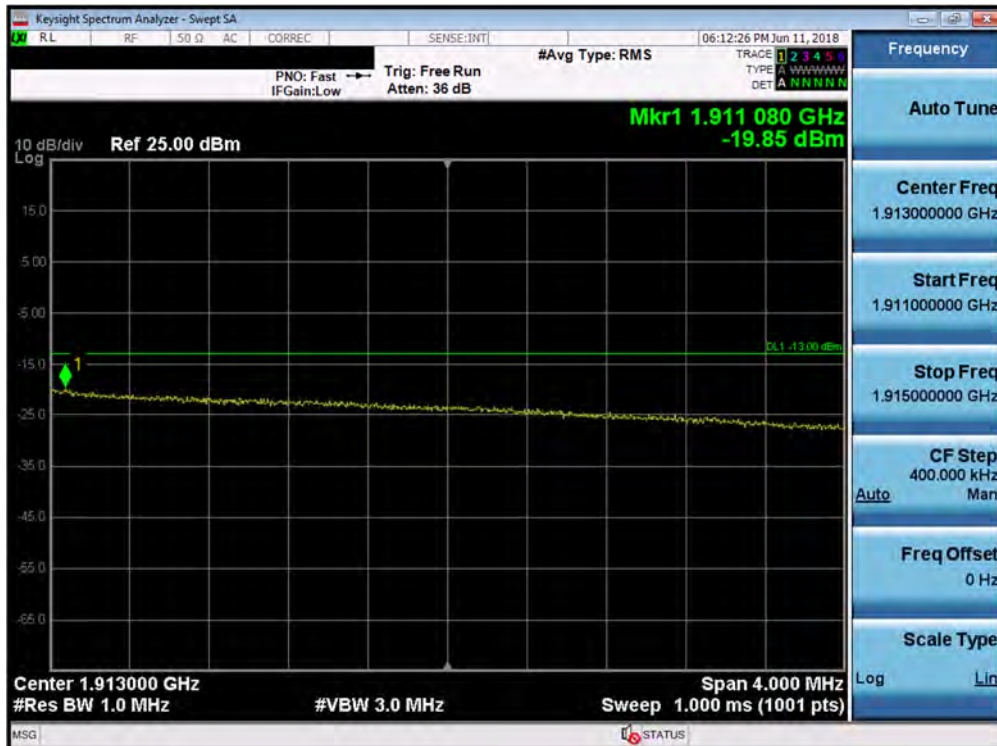


Plot 7-235. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 139 of 221



Plot 7-236. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-237. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 140 of 221



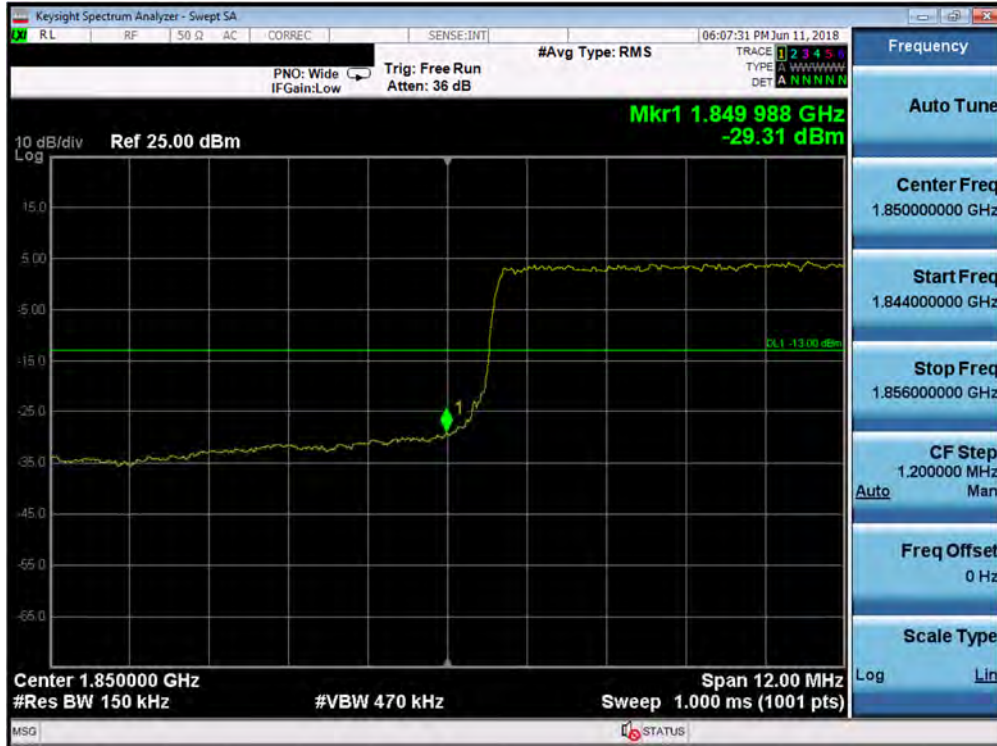
Plot 7-238. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)



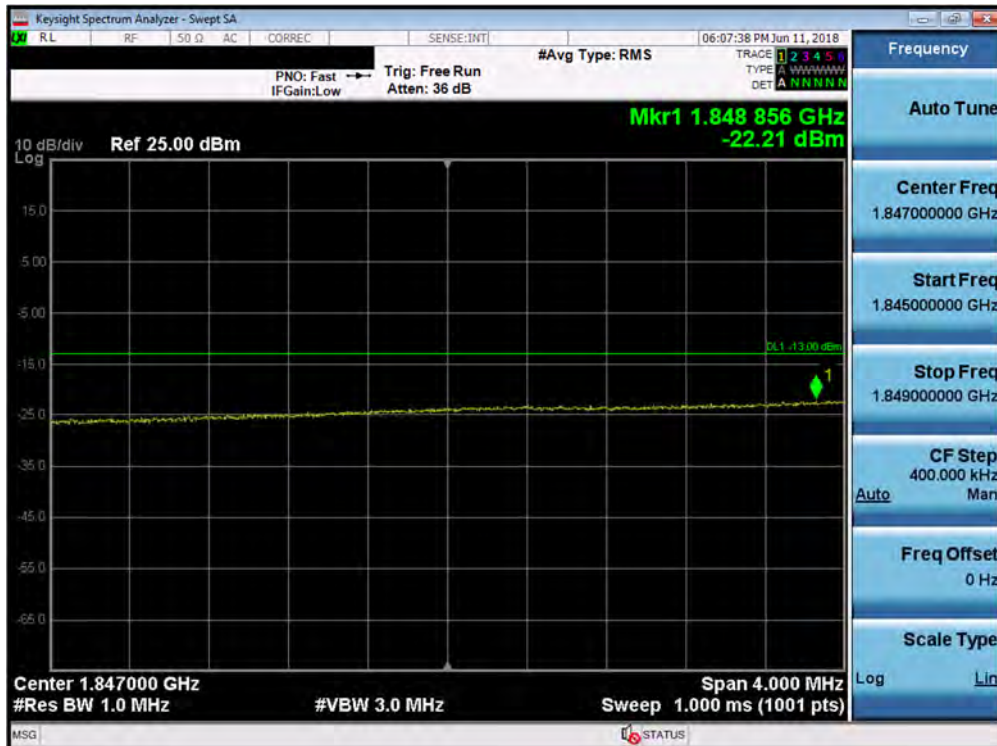
Plot 7-239. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 141 of 221



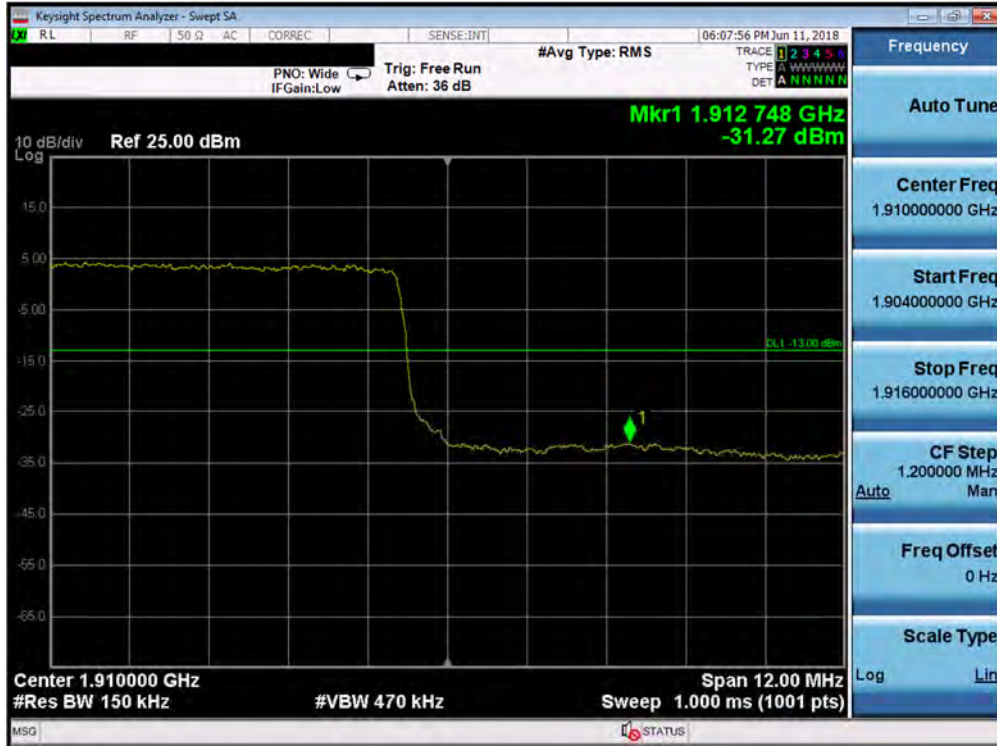


Plot 7-240. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

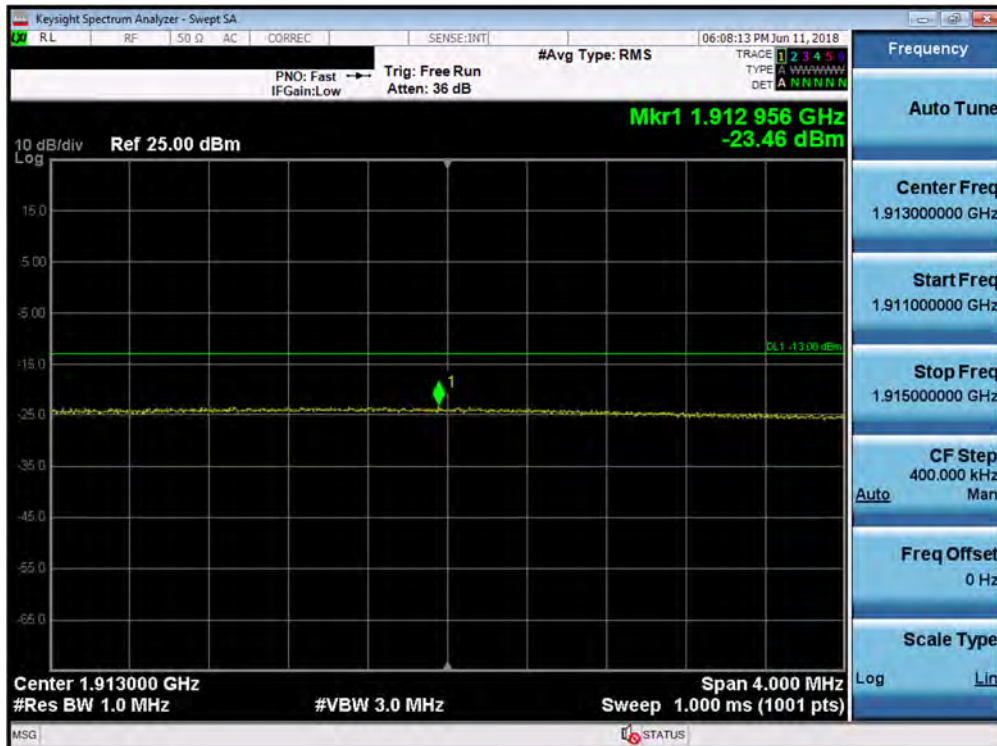


Plot 7-241. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 142 of 221

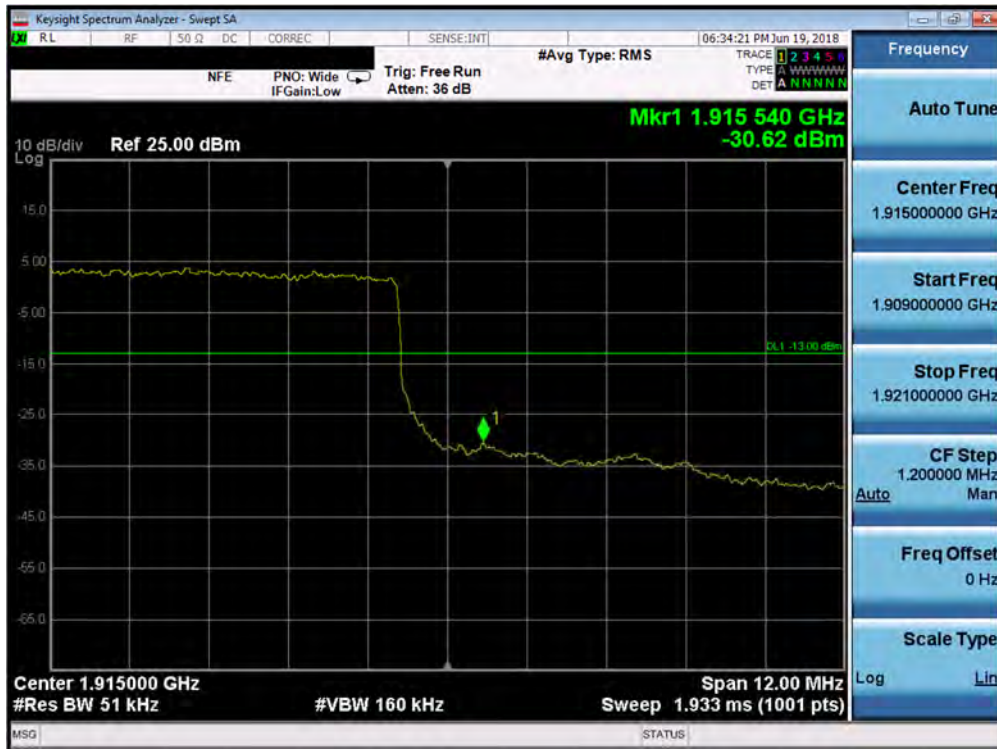


Plot 7-242. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

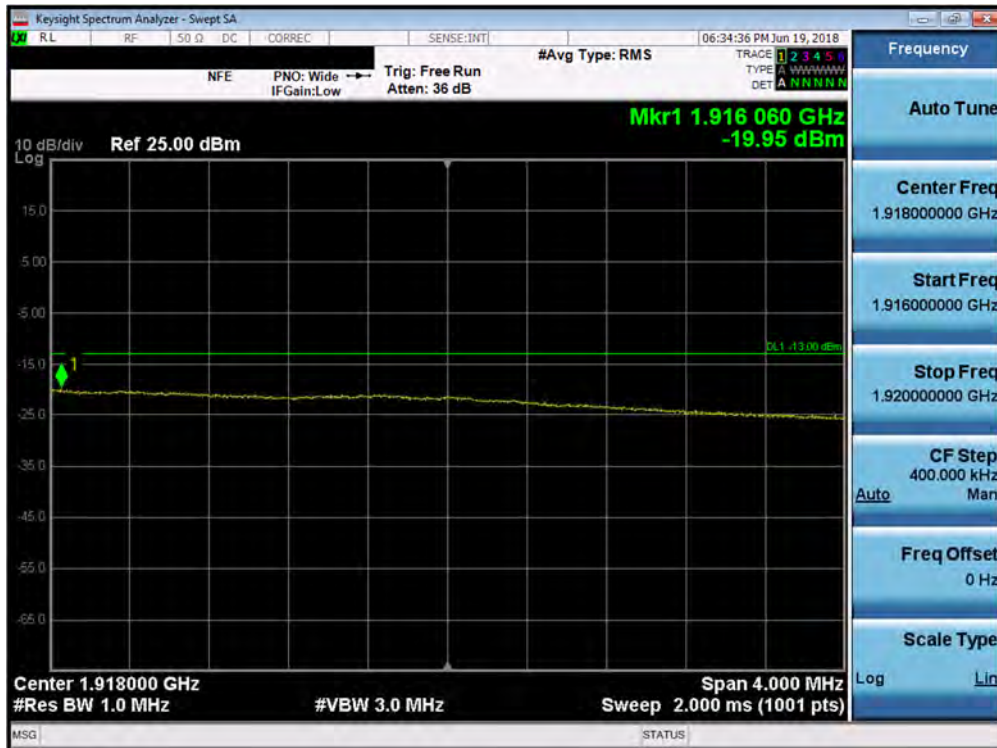


Plot 7-243. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 143 of 221

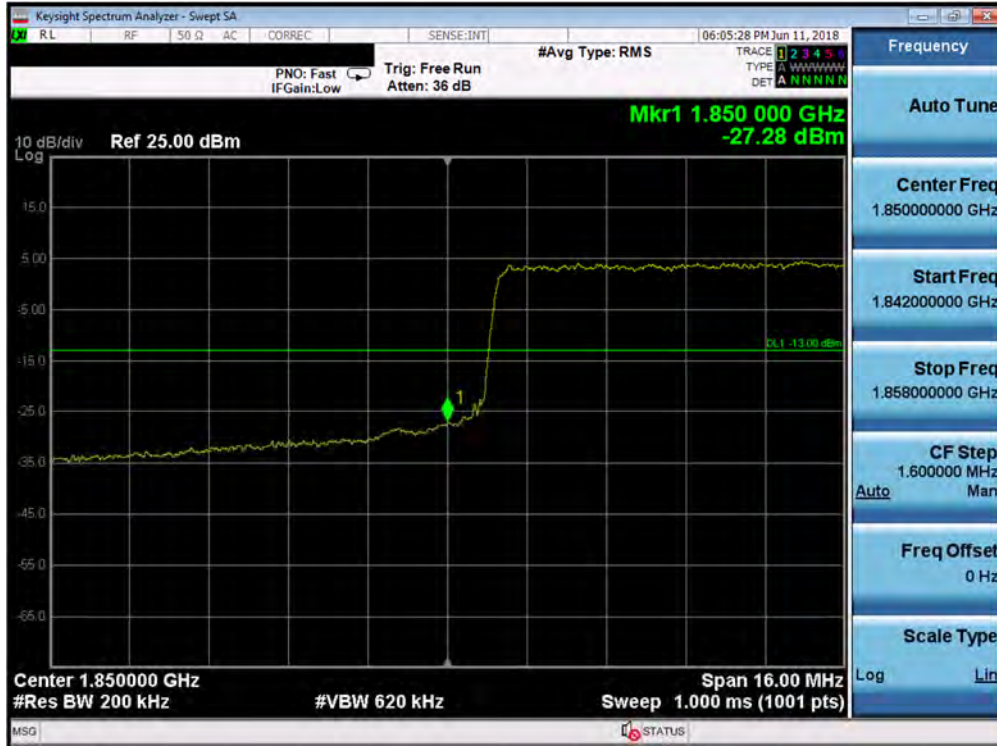


Plot 7-244. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

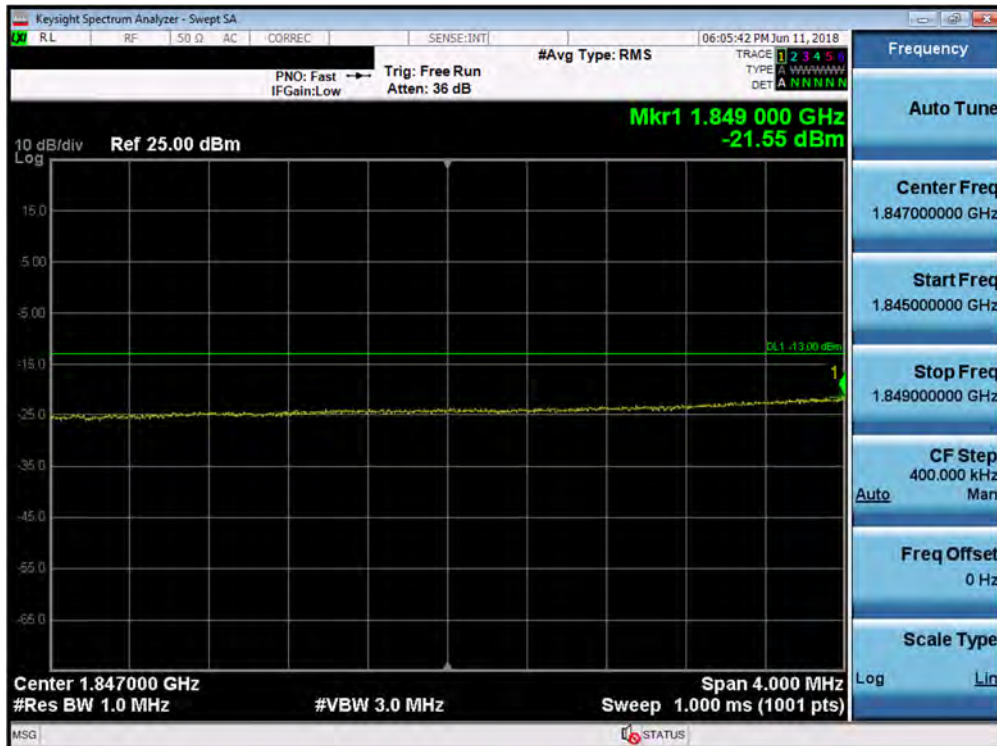


Plot 7-245. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-246. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

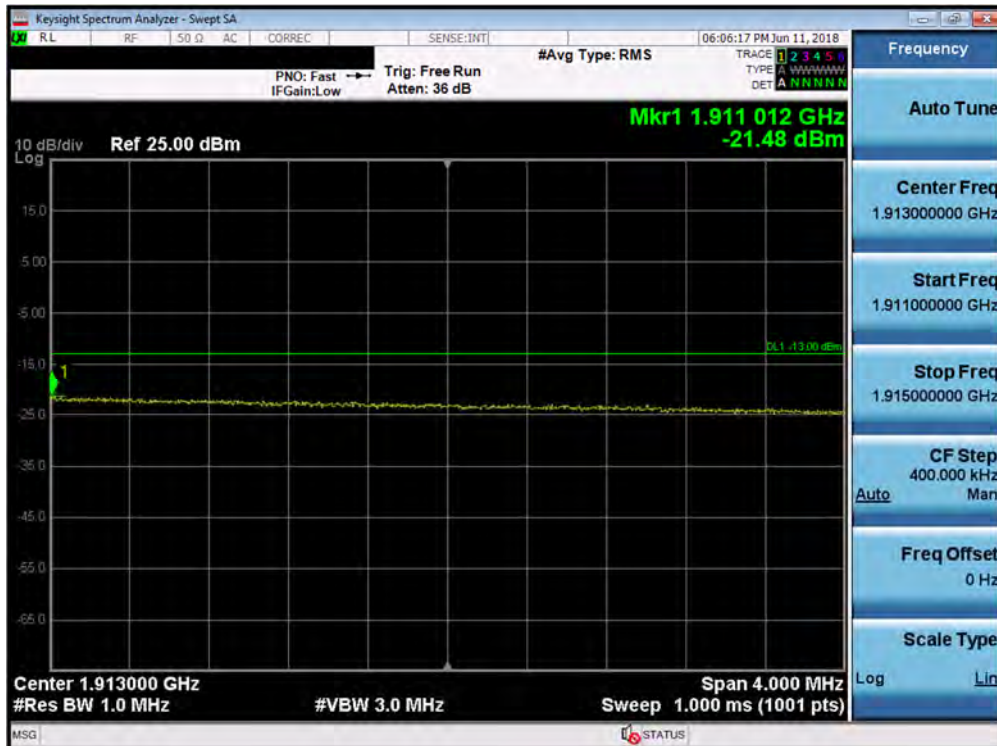


Plot 7-247. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-248. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

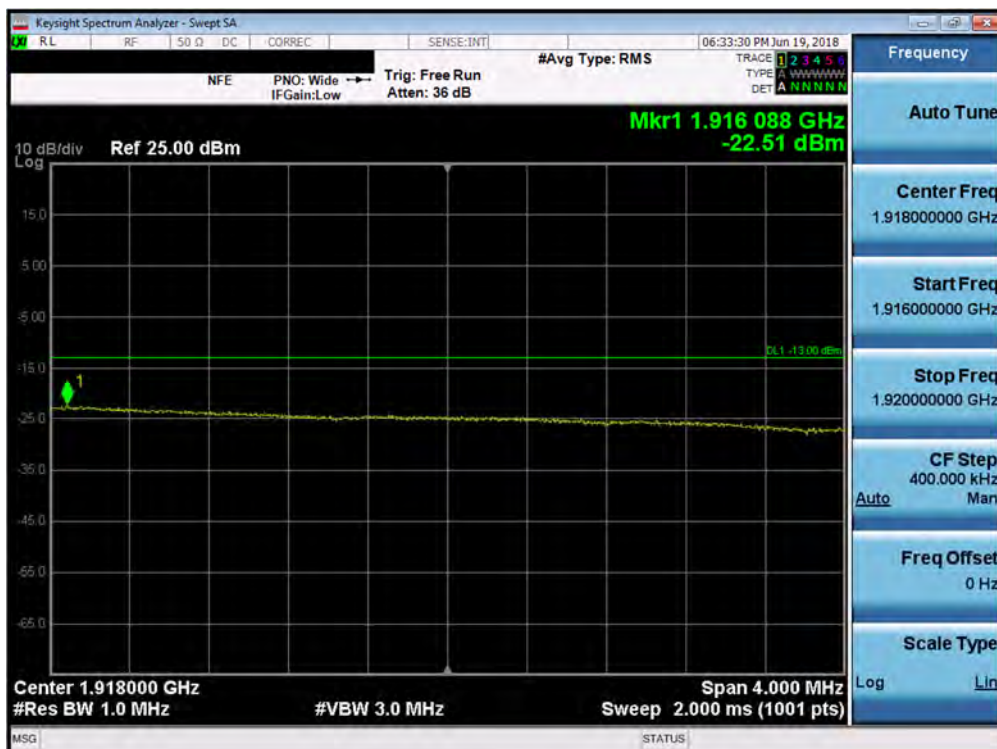


Plot 7-249. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 146 of 221



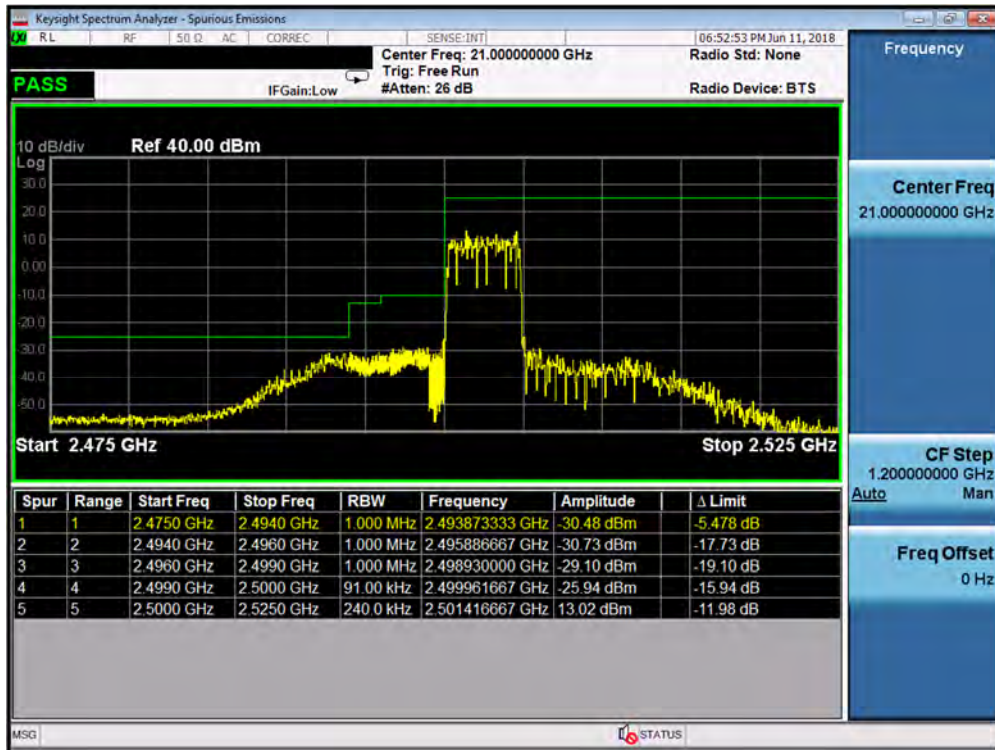
Plot 7-250. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



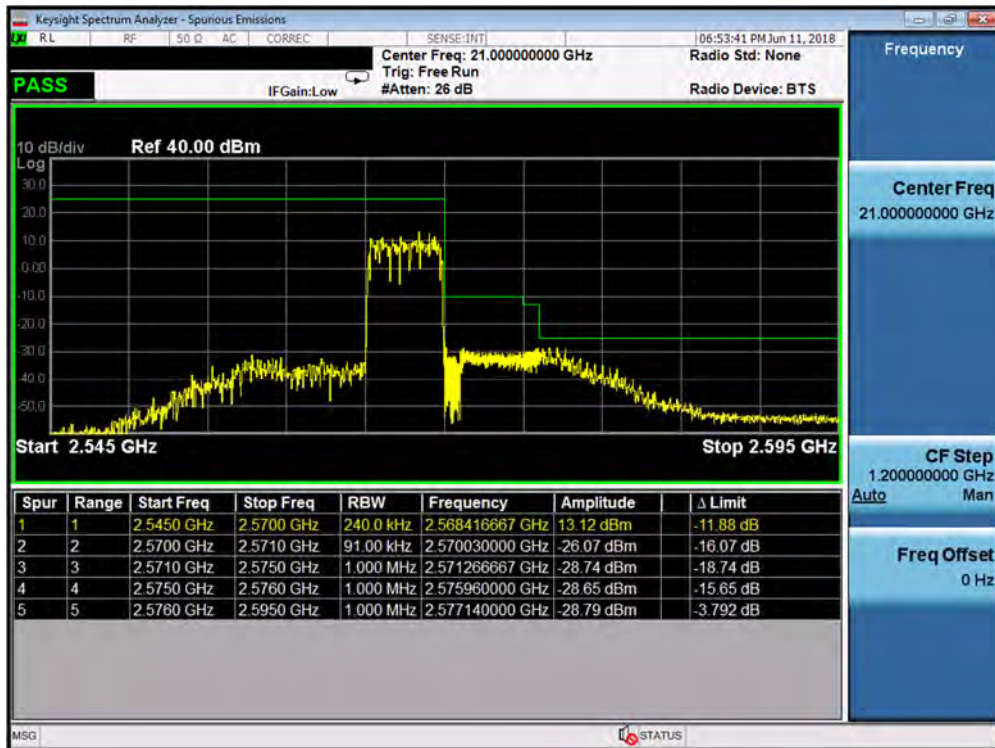
Plot 7-251. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 147 of 221

**Band 7**

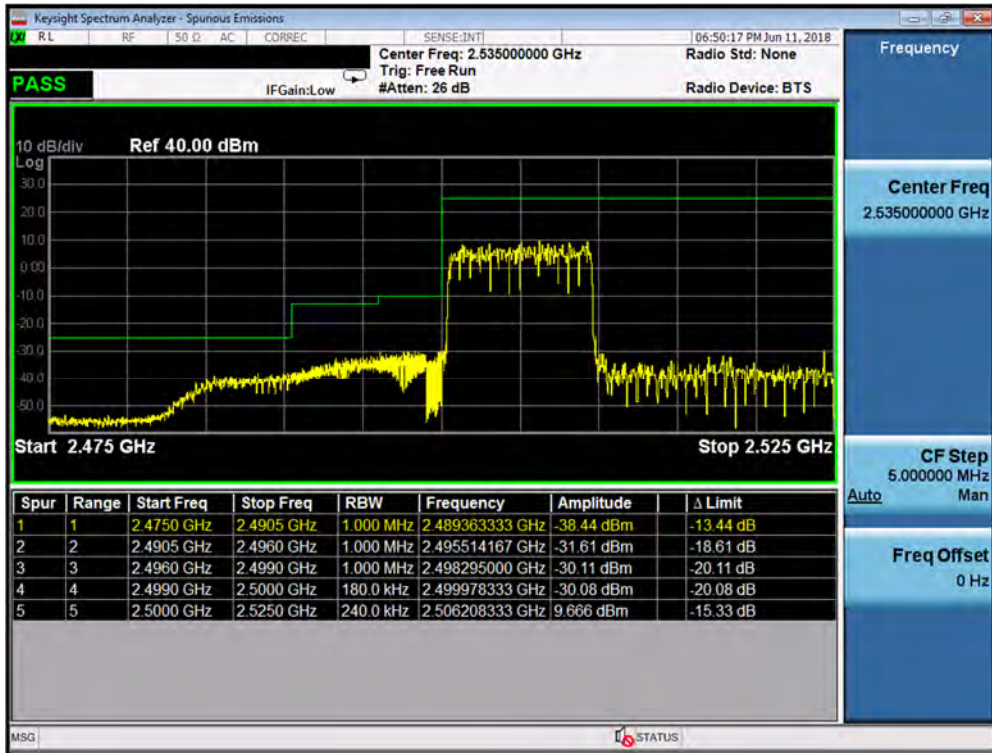


**Plot 7-252. Lower Band Edge Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)**

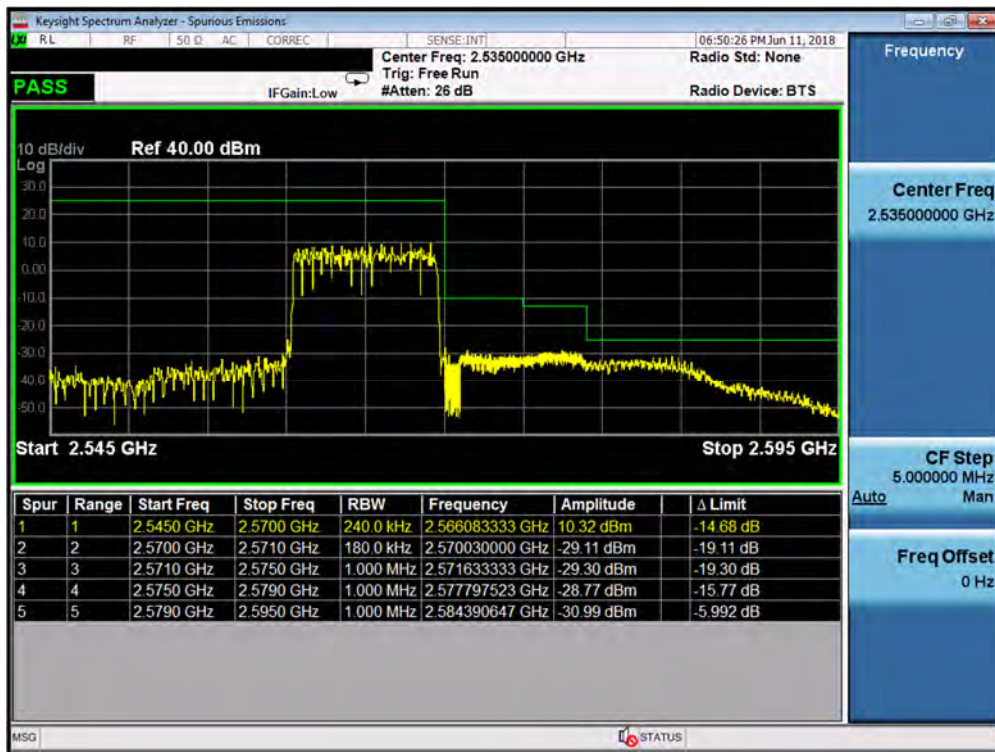


**Plot 7-253. Upper Band Edge Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)**

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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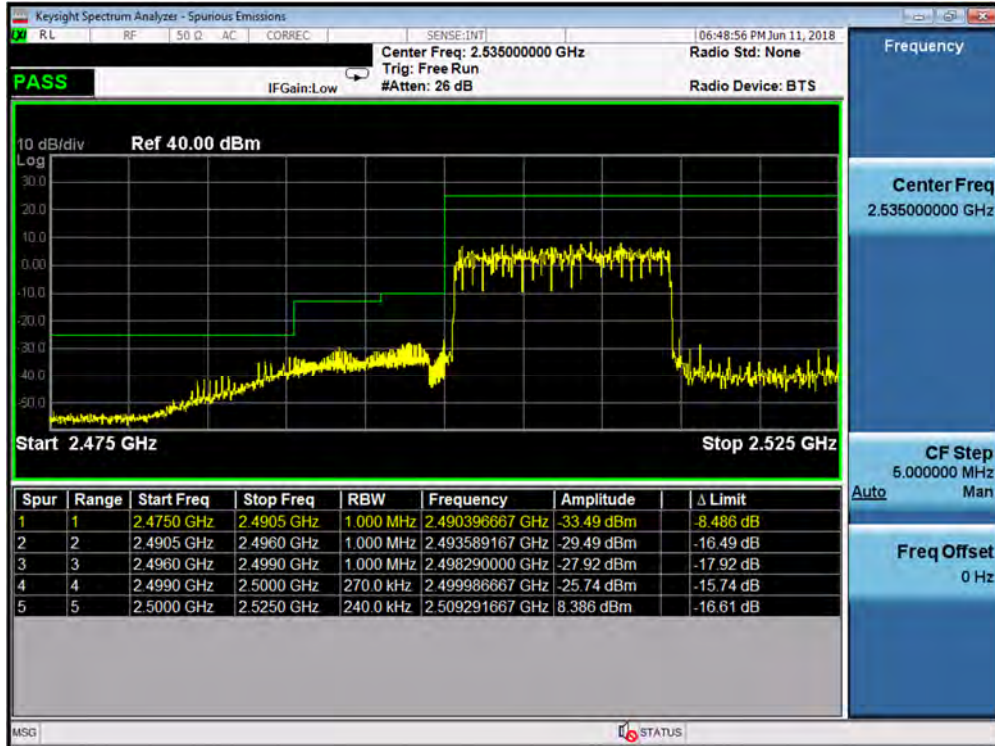
Plot 7-254. Lower Band Edge Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)



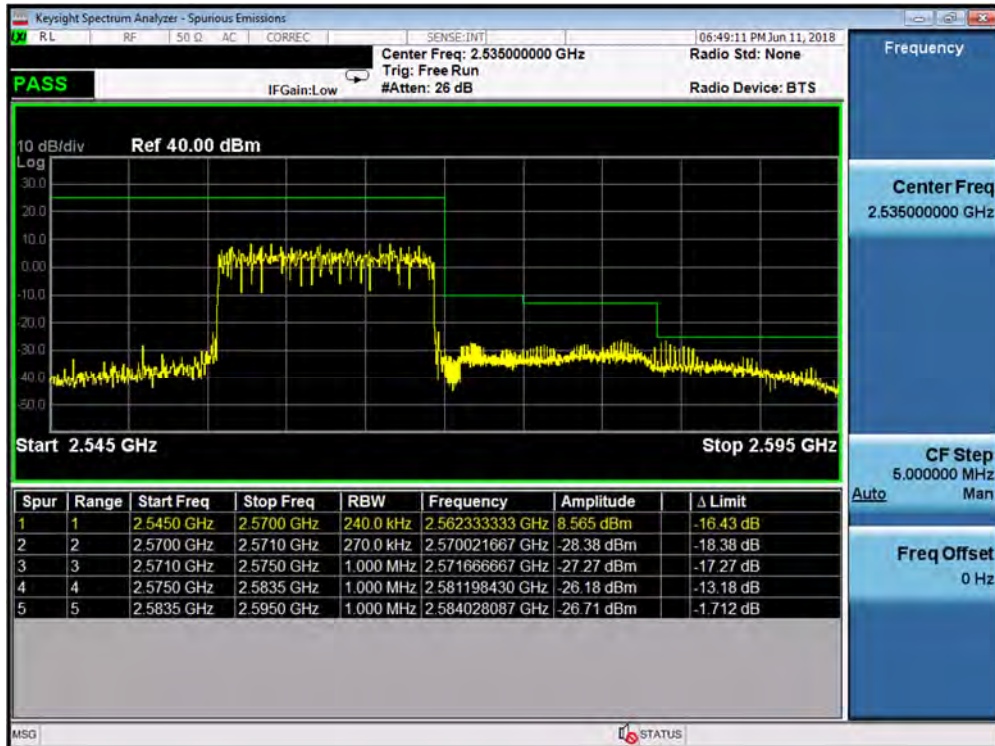
Plot 7-255. Upper Band Edge Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 149 of 221





Plot 7-256. Lower Band Edge Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-257. Upper Band Edge Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 150 of 221



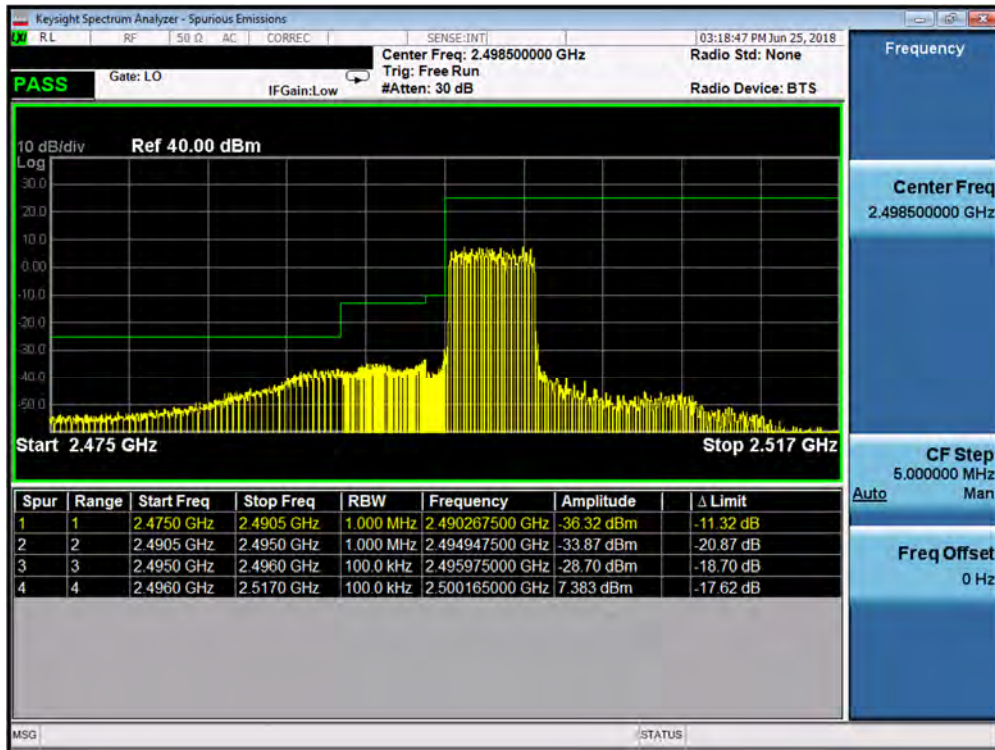
Plot 7-258. Lower Band Edge Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



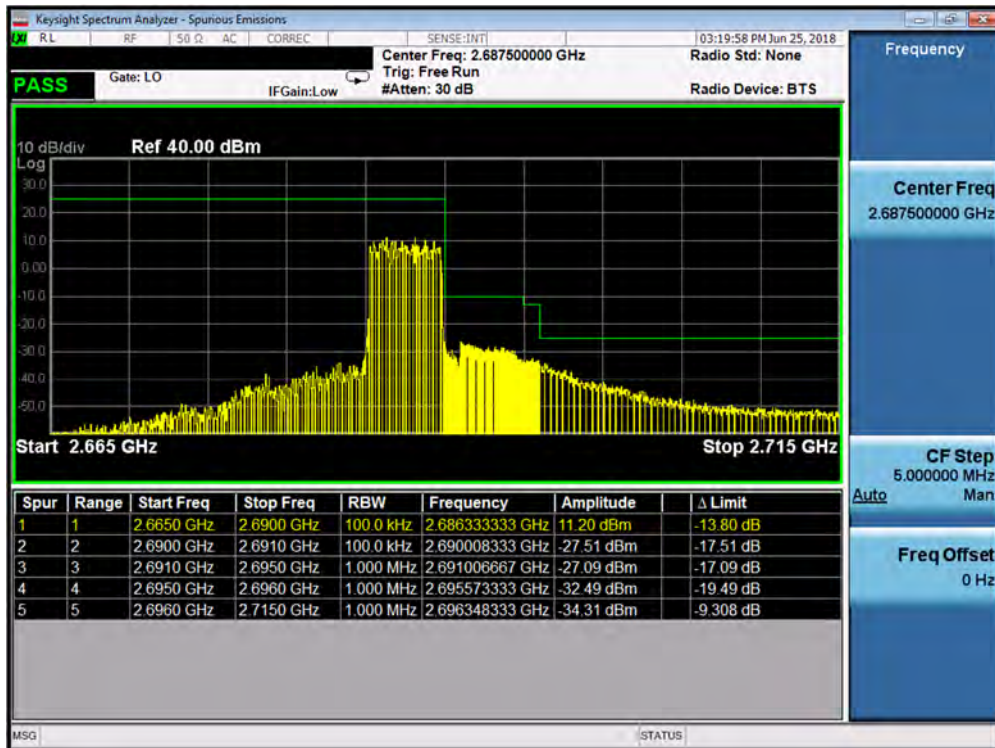
Plot 7-259. Upper Band Edge Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 151 of 221

**Band 41**

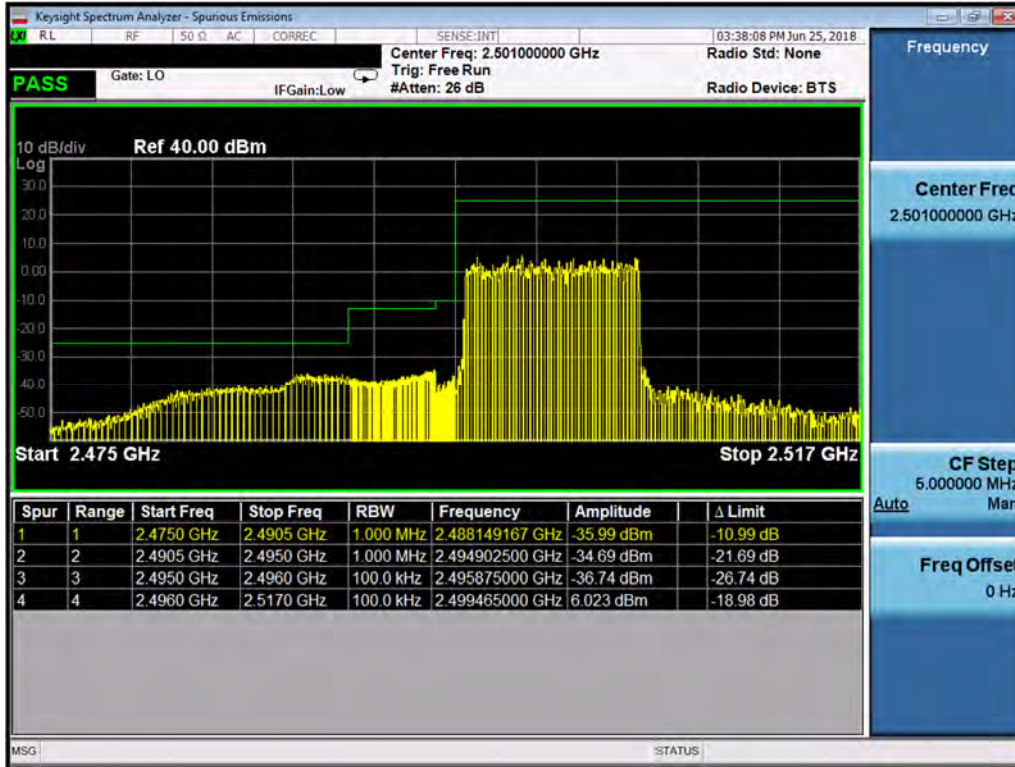


Plot 7-260. Lower ACP Plot at 2496 MHz (Band 41 - 5.0MHz QPSK - RB Size 25)

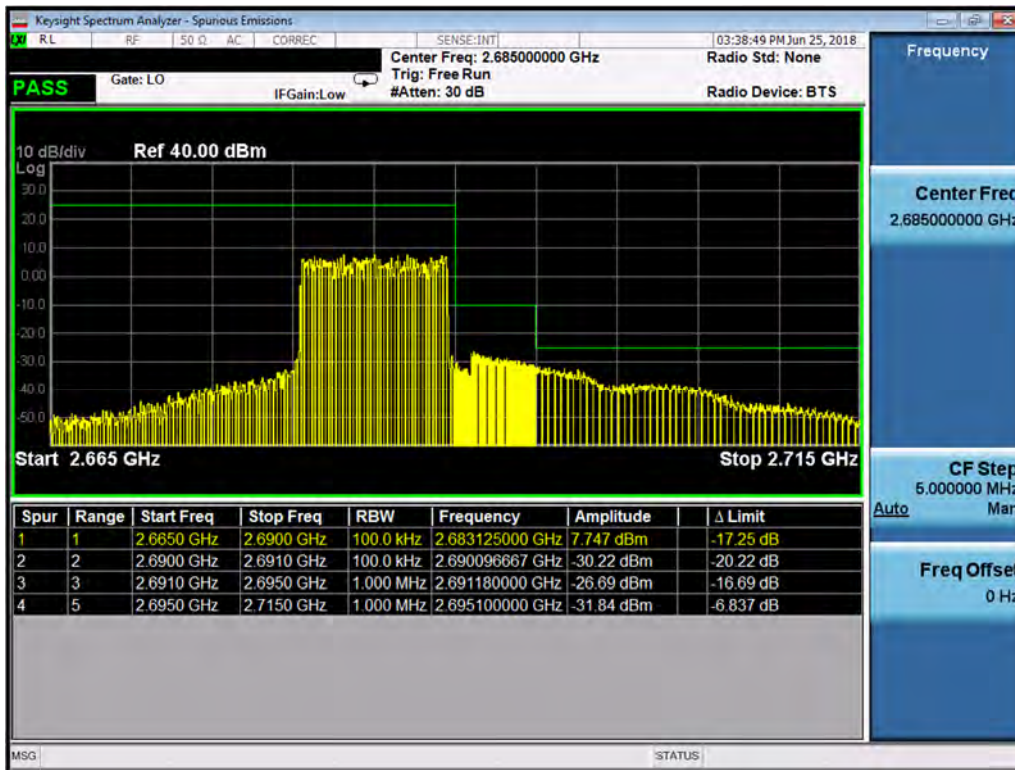


Plot 7-261. Upper ACP Plot (Band 41 - 5.0MHz QPSK - RB Size 25)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 152 of 221

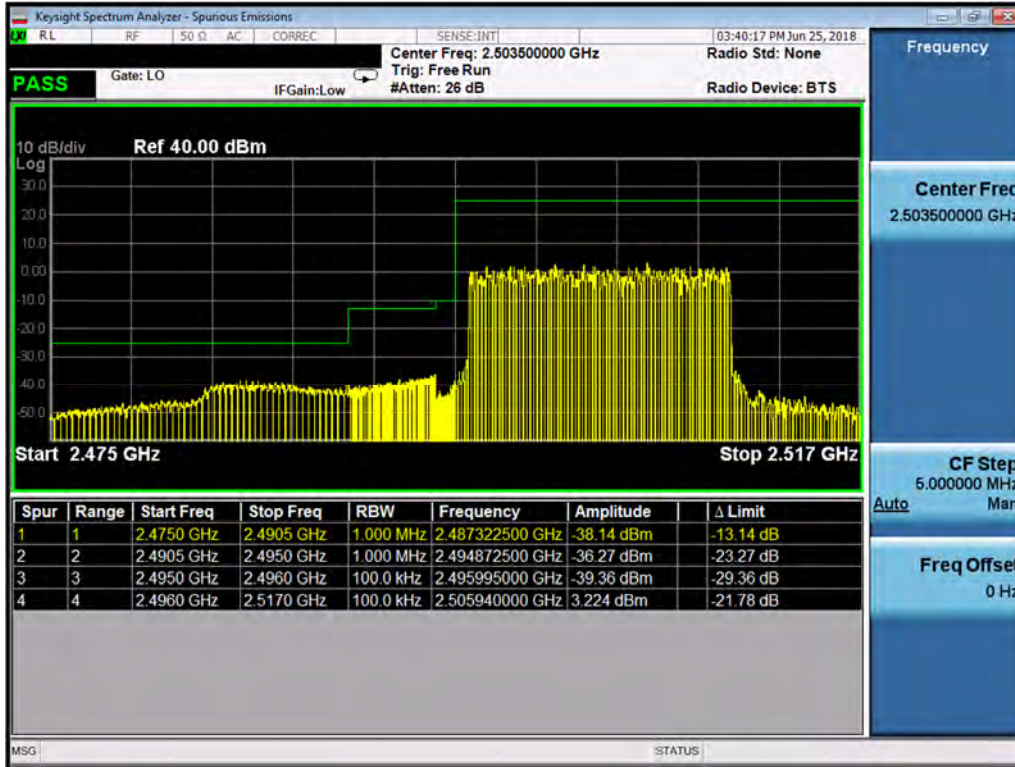


Plot 7-262. Lower ACP Plot at 2496 MHz (Band 41 - 10.0MHz QPSK - RB Size 25)

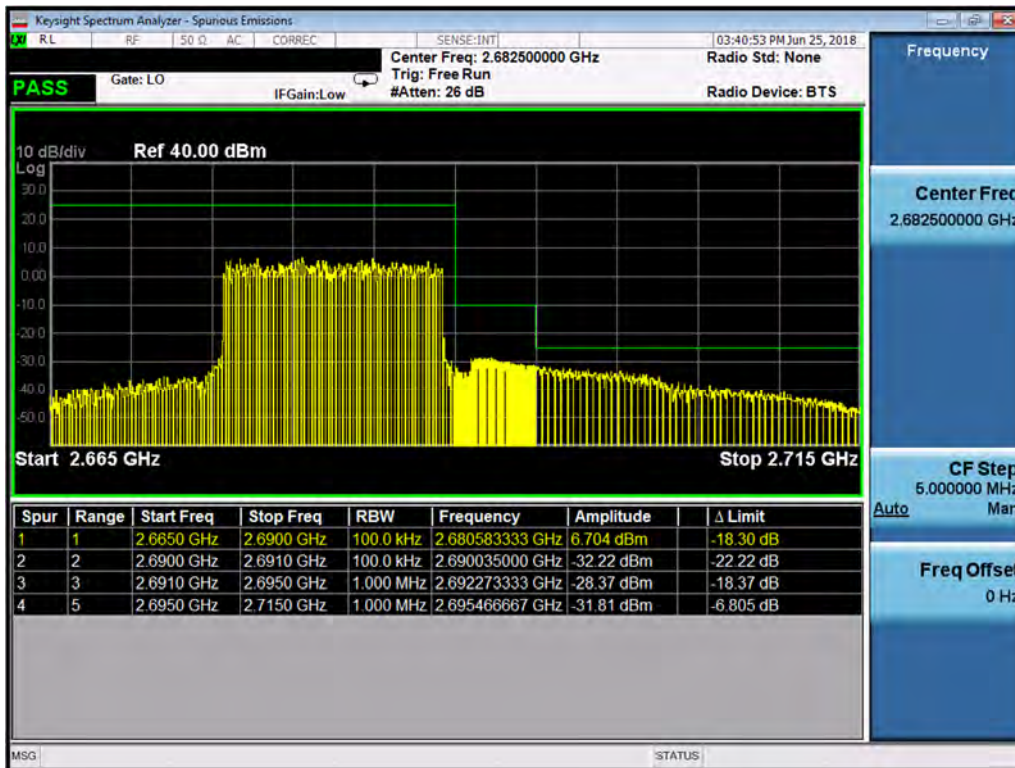


Plot 7-263. Upper ACP Plot (Band 41 - 10.0MHz QPSK - RB Size 25)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 153 of 221

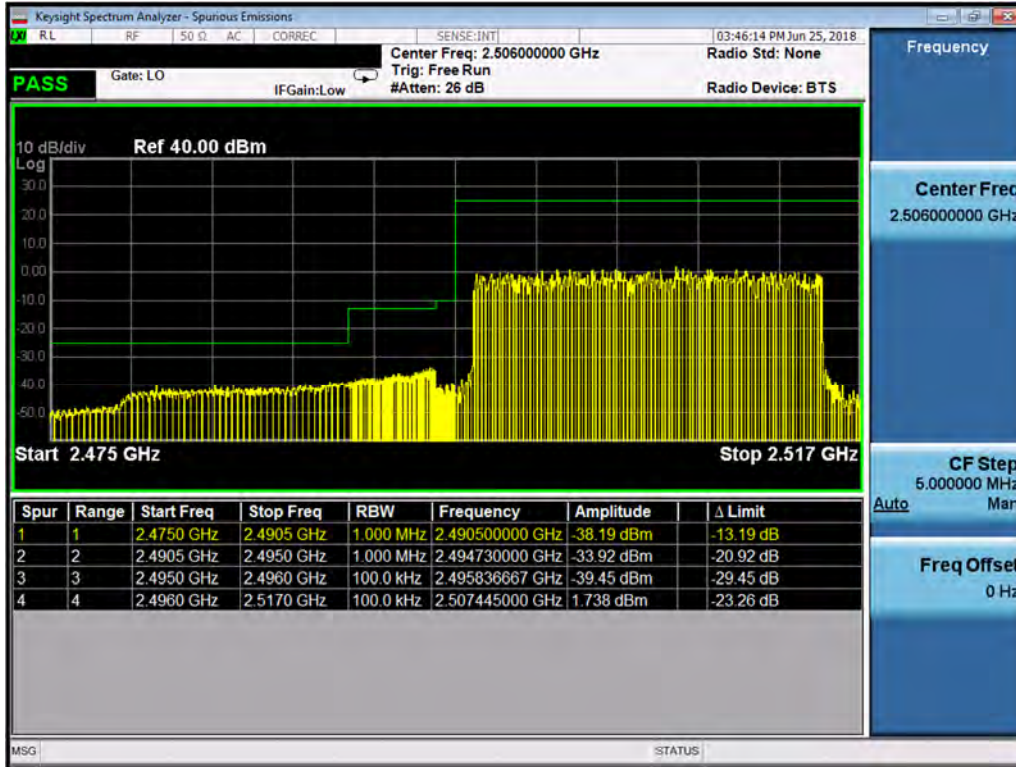


Plot 7-264. Lower ACP Plot at 2496 MHz (Band 41 - 15.0MHz QPSK - RB Size 25)

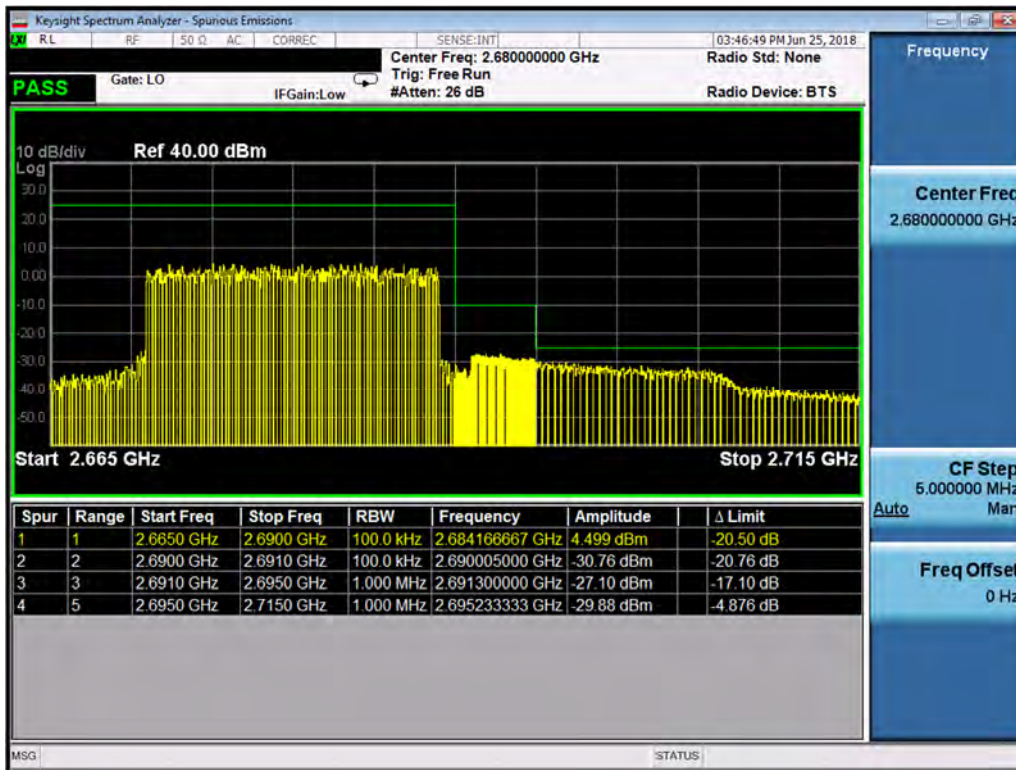


Plot 7-265. Upper ACP Plot (Band 41 - 15.0MHz QPSK - RB Size 25)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 154 of 221



Plot 7-266. Lower ACP Plot at 2496 MHz (Band 41 - 20.0MHz QPSK - RB Size 25)



Plot 7-267. Upper ACP Plot (Band 41 - 20.0MHz QPSK - RB Size 25)

FCC ID: A3LSMT837P		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 155 of 221

## 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 v03r01 – 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. 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.



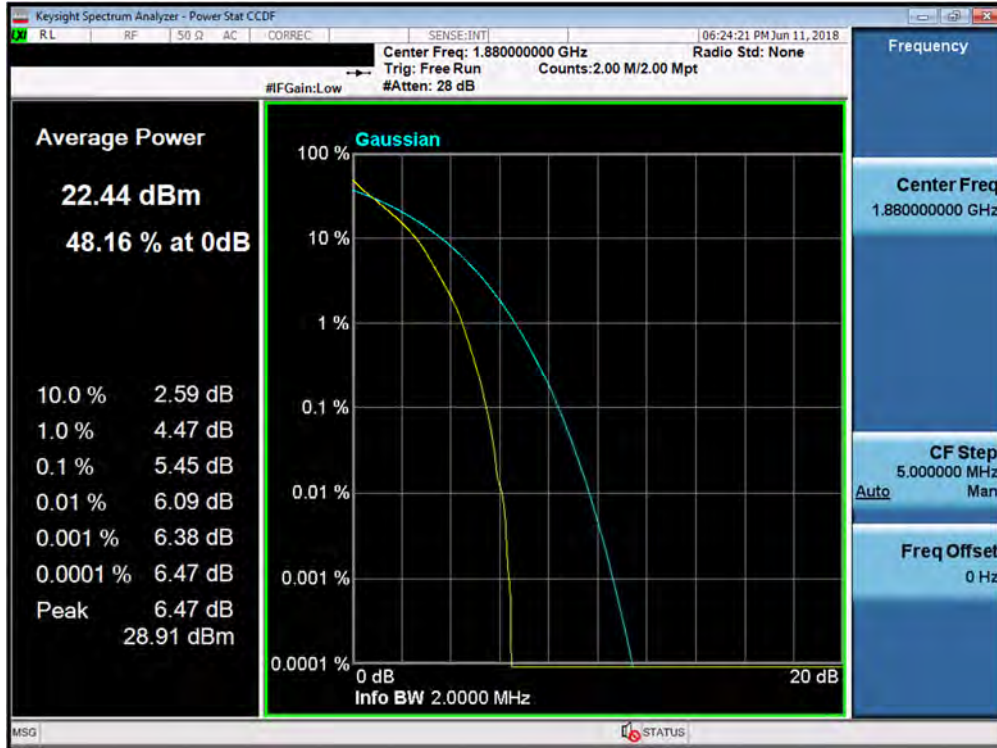
**Figure 7-4. Test Instrument & Measurement Setup**

### Test Notes

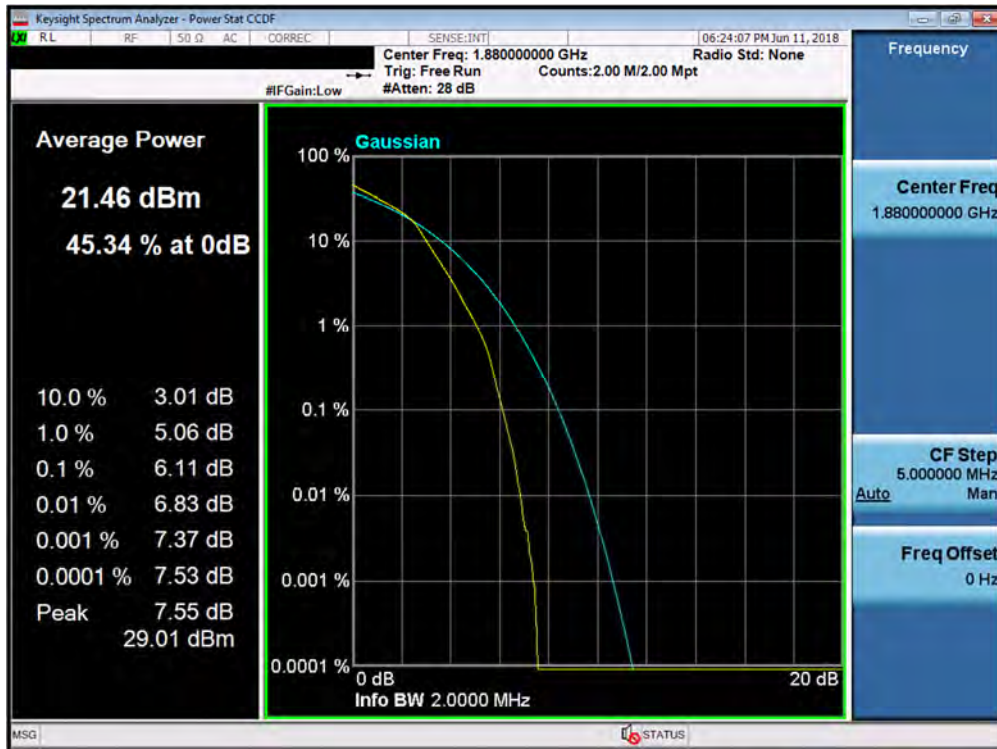
None.

FCC ID: A3LSMT837P	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1806060119-03.A3L	<b>Test Dates:</b> 6/6 - 6/27/2018	<b>EUT Type:</b> Portable Tablet	Page 156 of 221	

**Band 25/2**



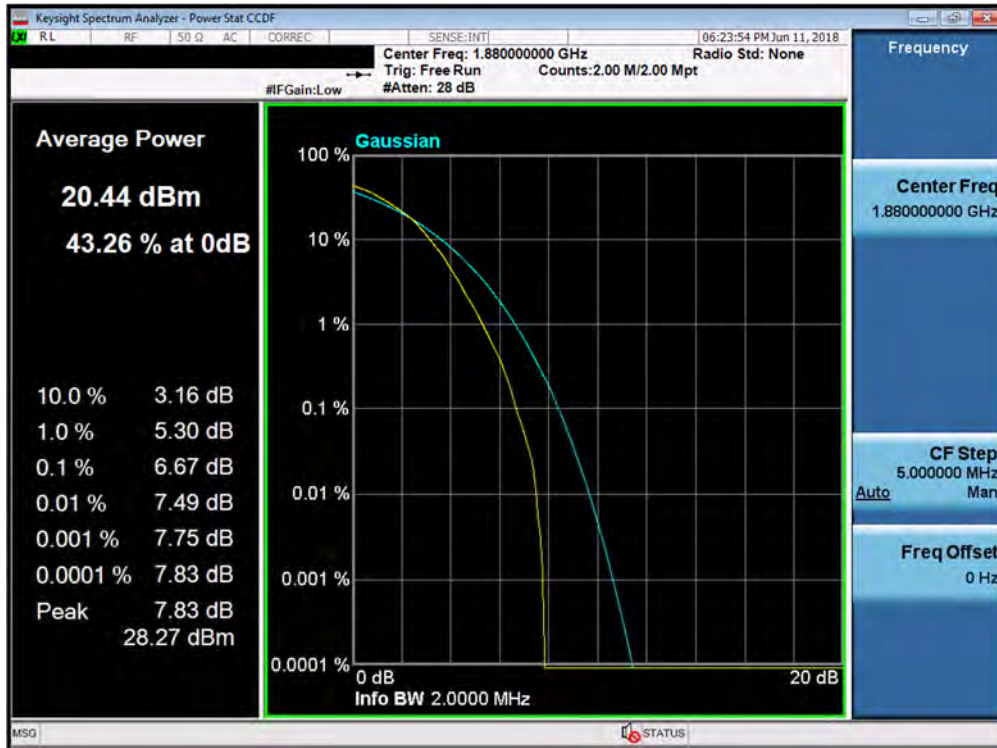
**Plot 7-268. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)**



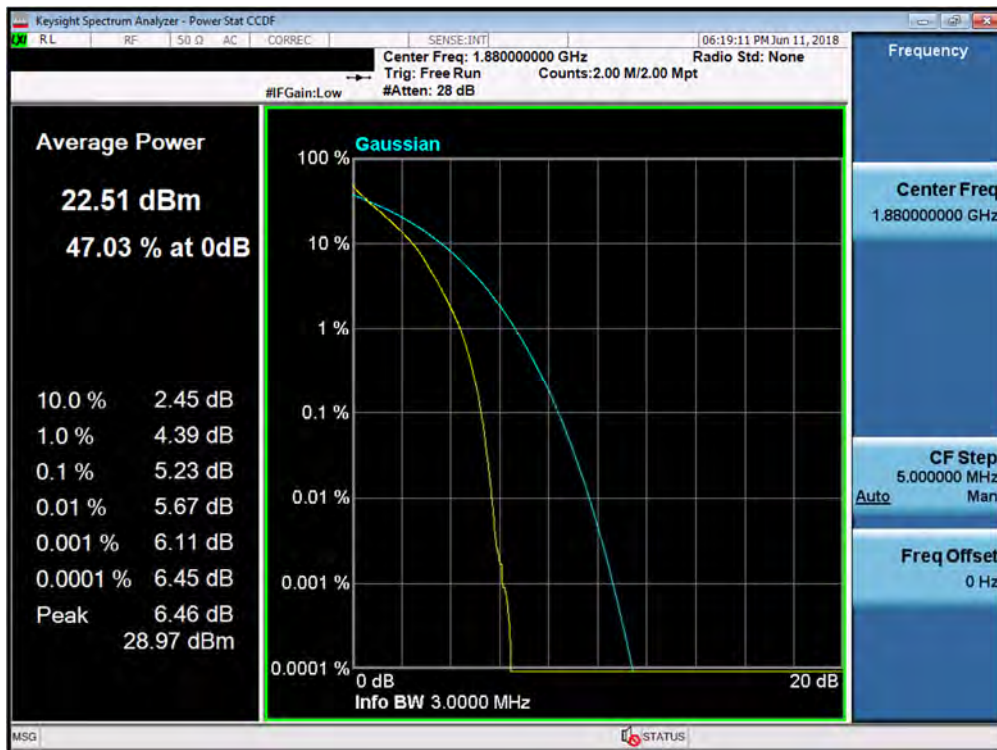
**Plot 7-269. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)**

FCC ID: A3LSMT837P	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 157 of 221



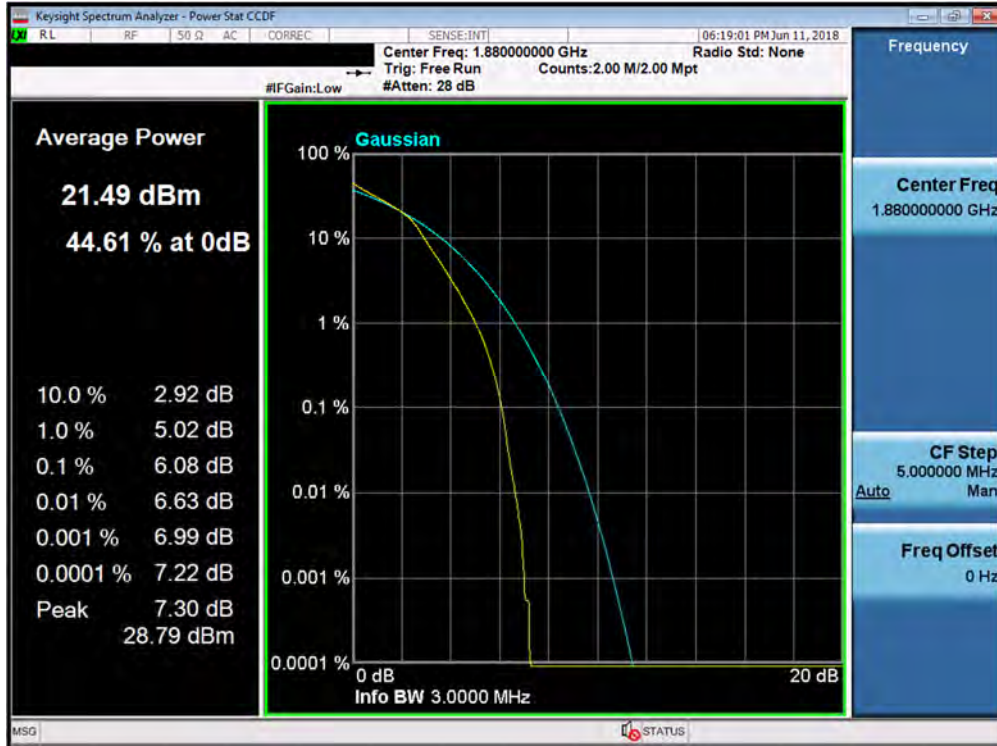


Plot 7-270. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

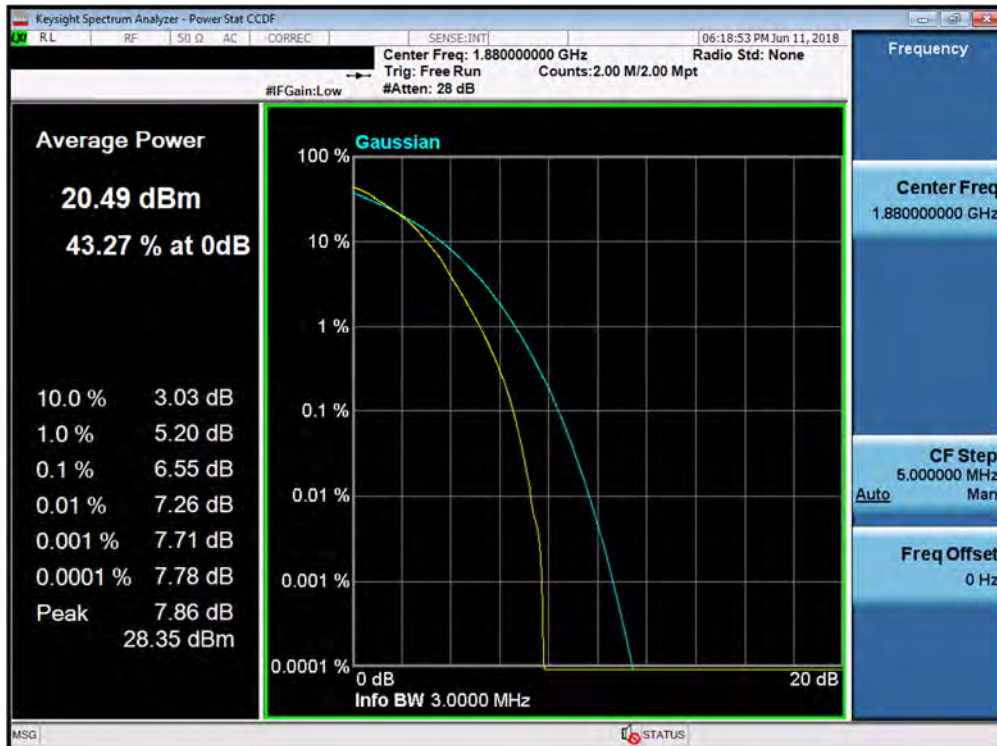


Plot 7-271. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 158 of 221

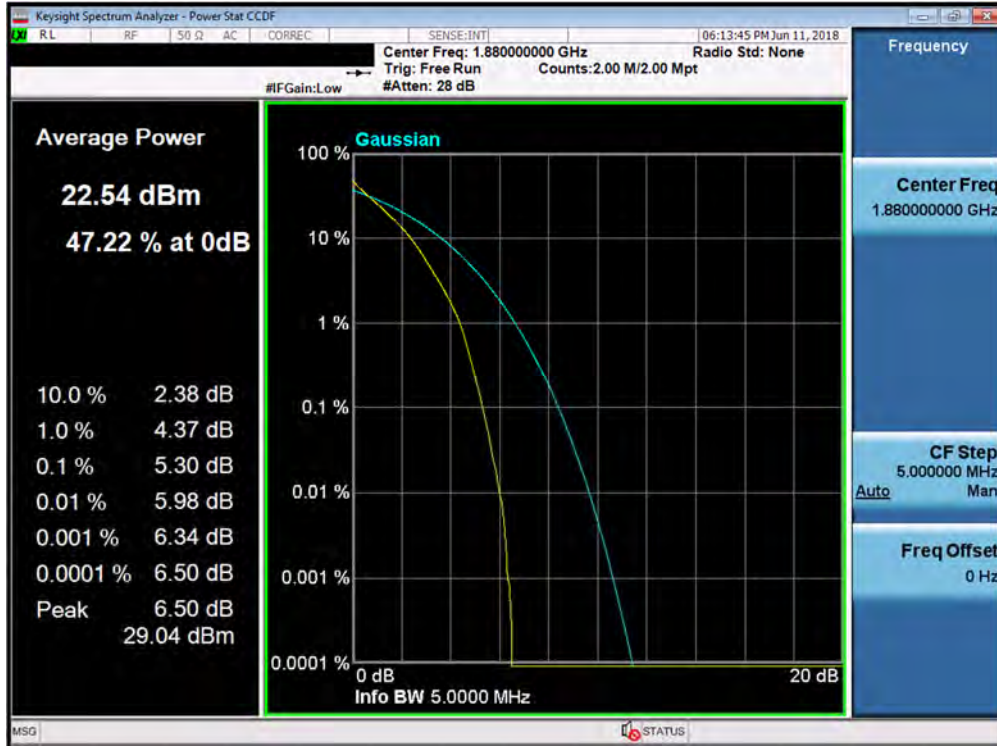


Plot 7-272. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

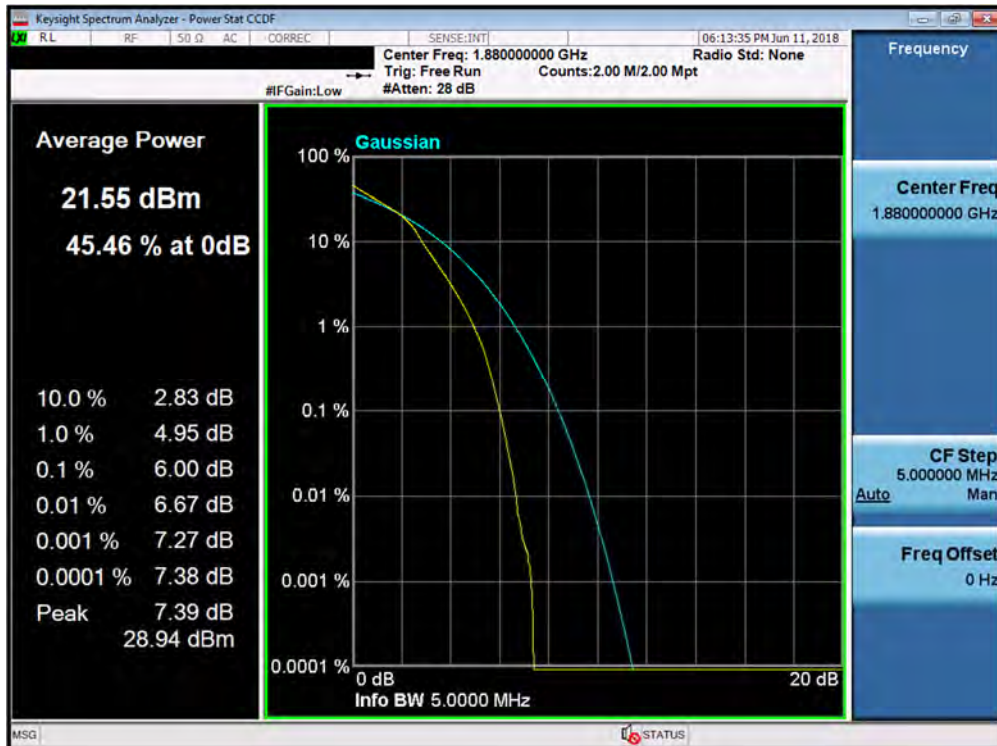


Plot 7-273. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT837P	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 159 of 221

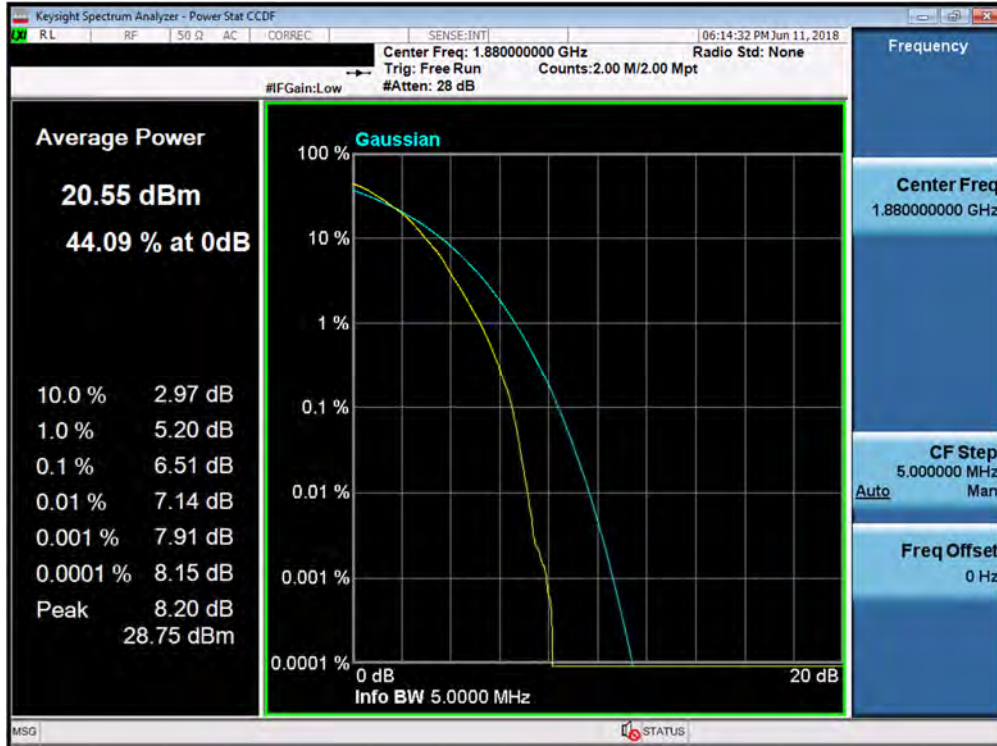


Plot 7-274. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

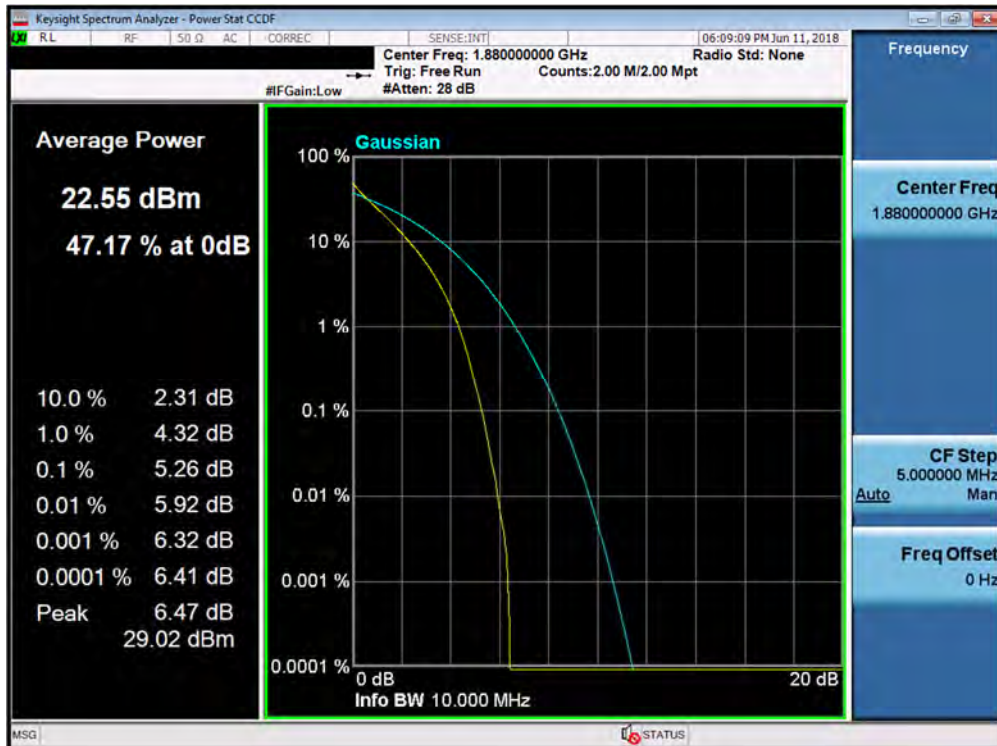


Plot 7-275. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT837P	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 160 of 221

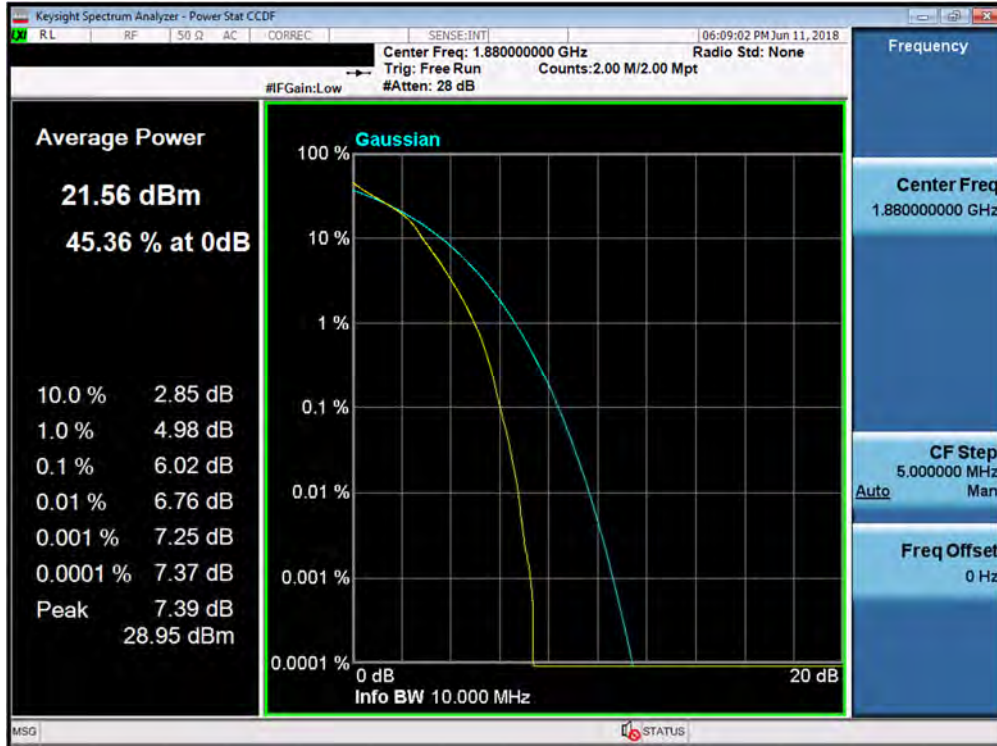


Plot 7-276. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

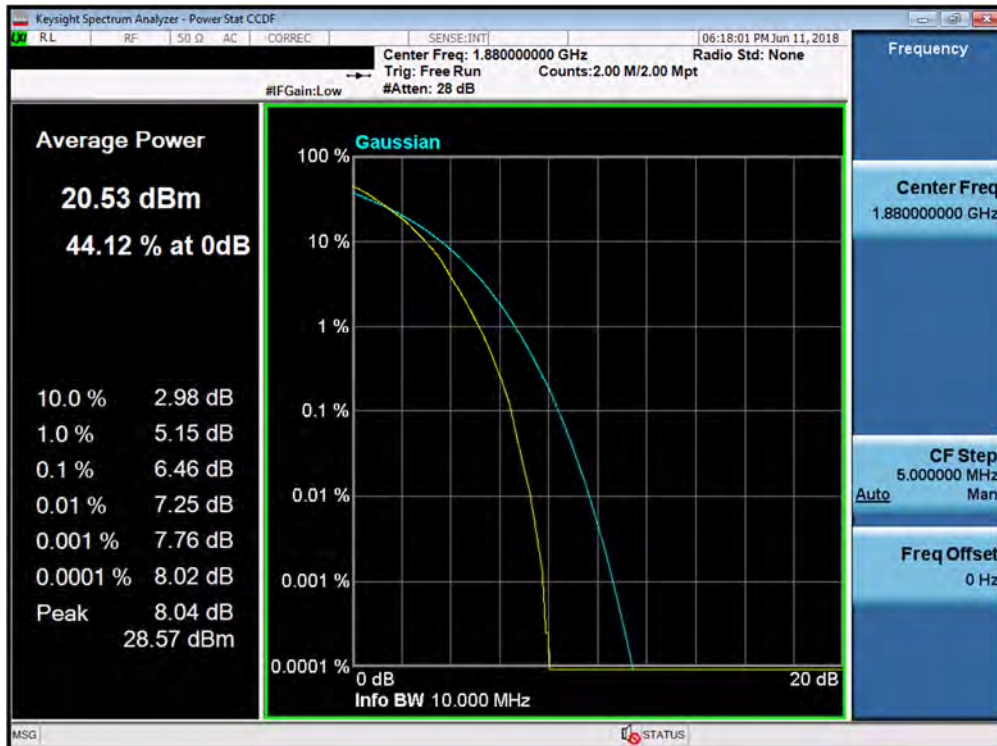


Plot 7-277. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT837P	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 161 of 221

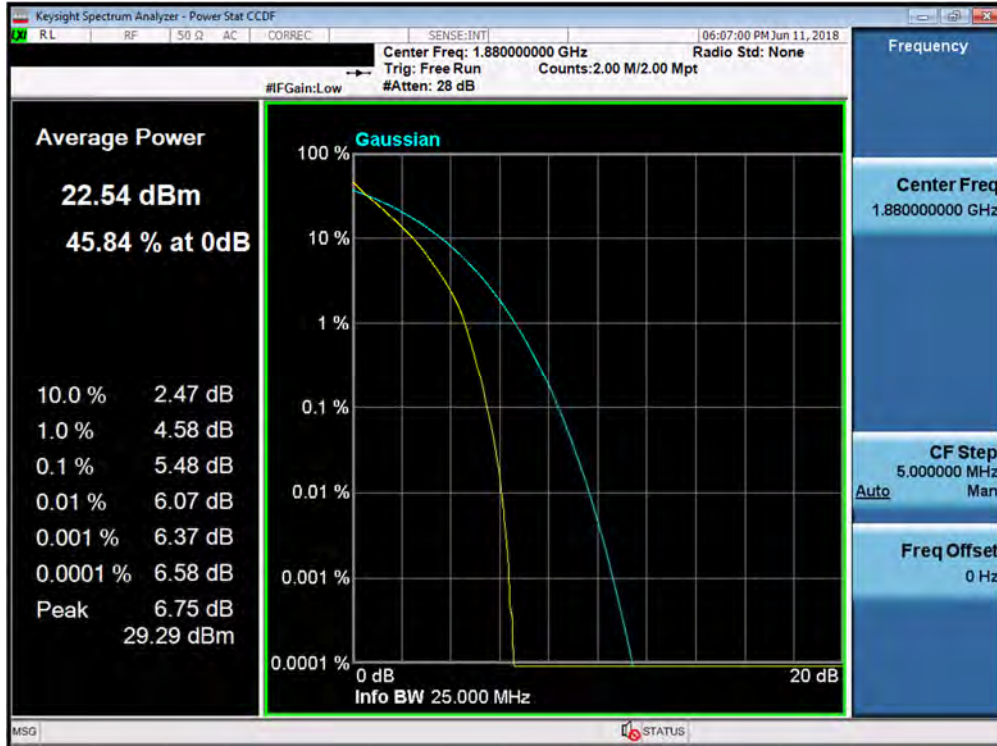


Plot 7-278. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

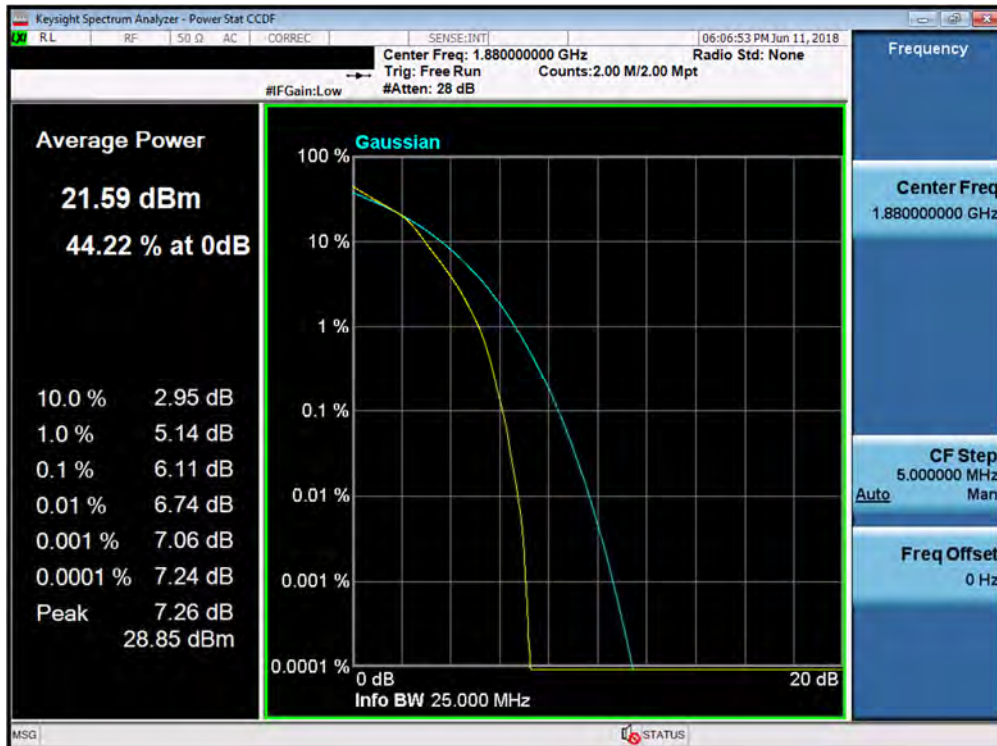


Plot 7-279. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT837P	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Quality Manager
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Plot 7-280. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-281. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT837P	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1806060119-03.A3L	Test Dates: 6/6 - 6/27/2018	EUT Type: Portable Tablet		Page 163 of 221