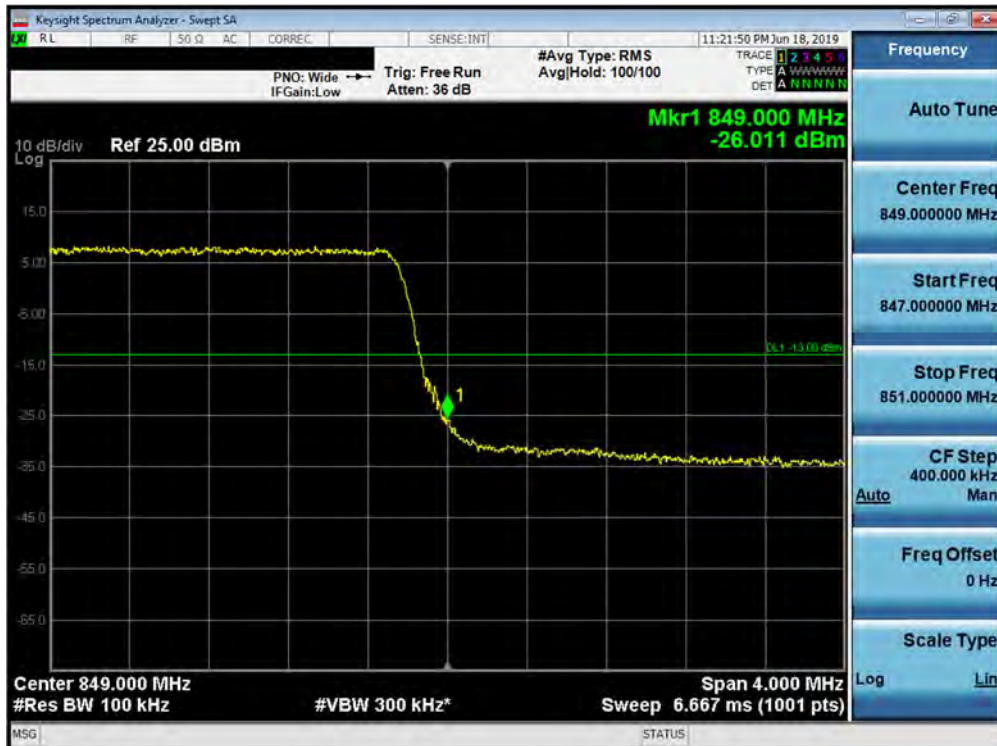
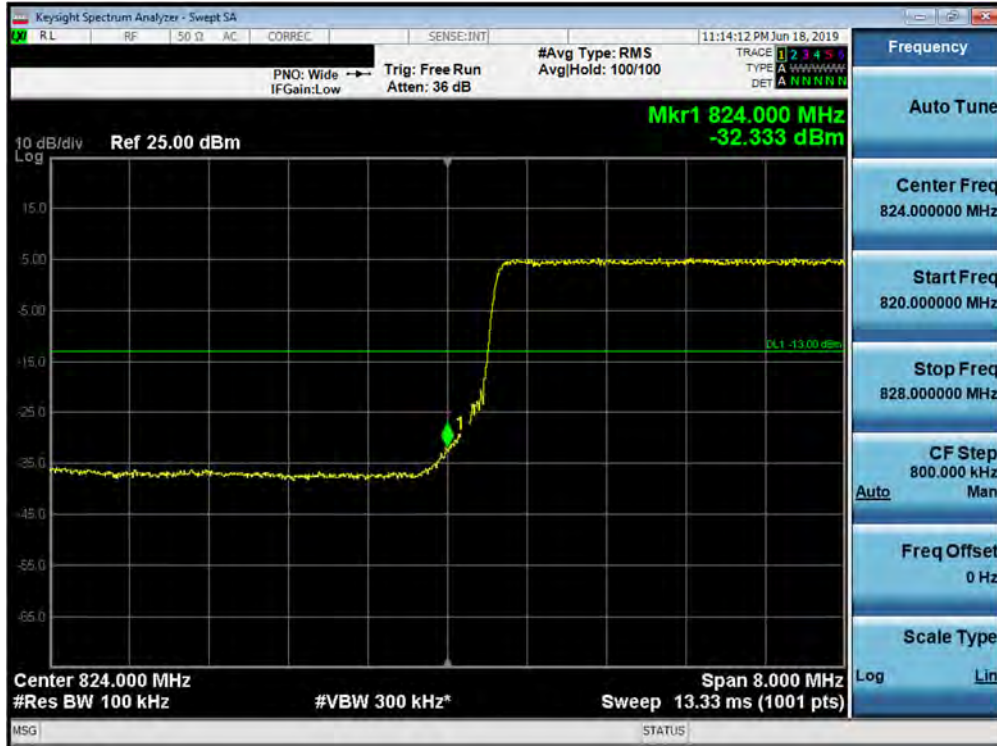


Plot 7-152. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

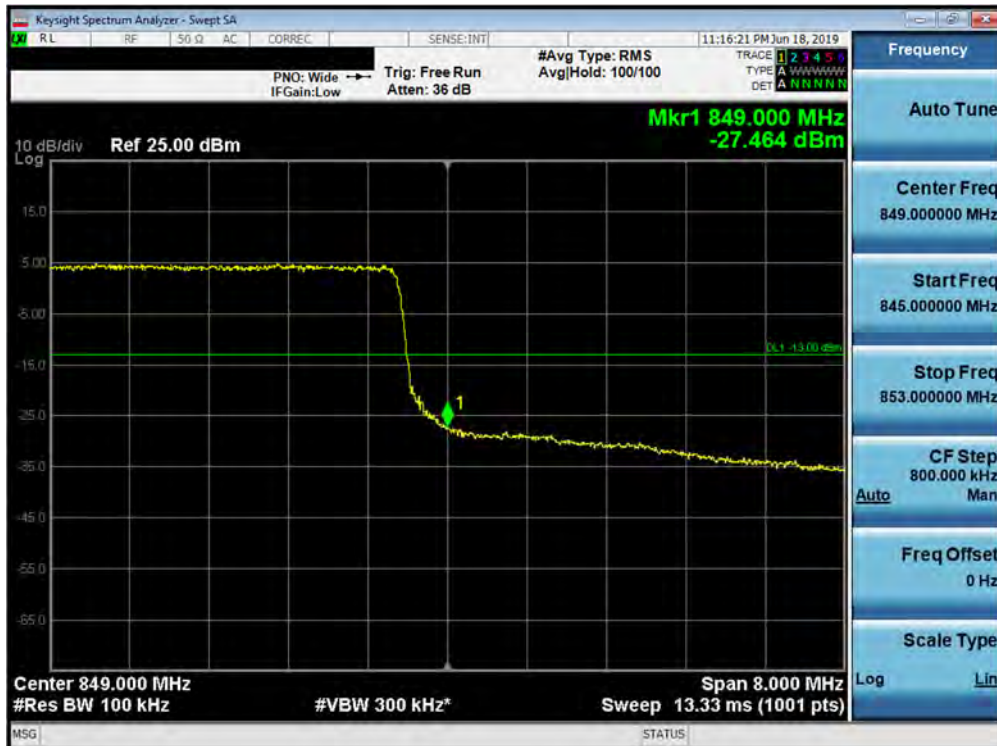


Plot 7-153. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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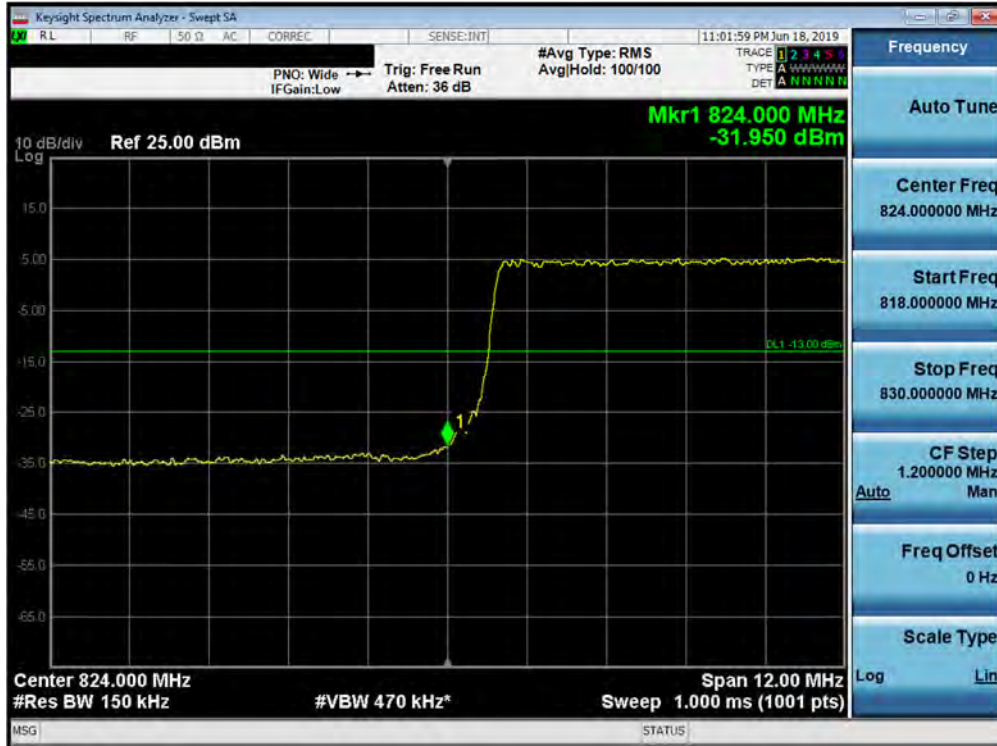


Plot 7-154. Lower Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-155. Upper Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 100 of 186



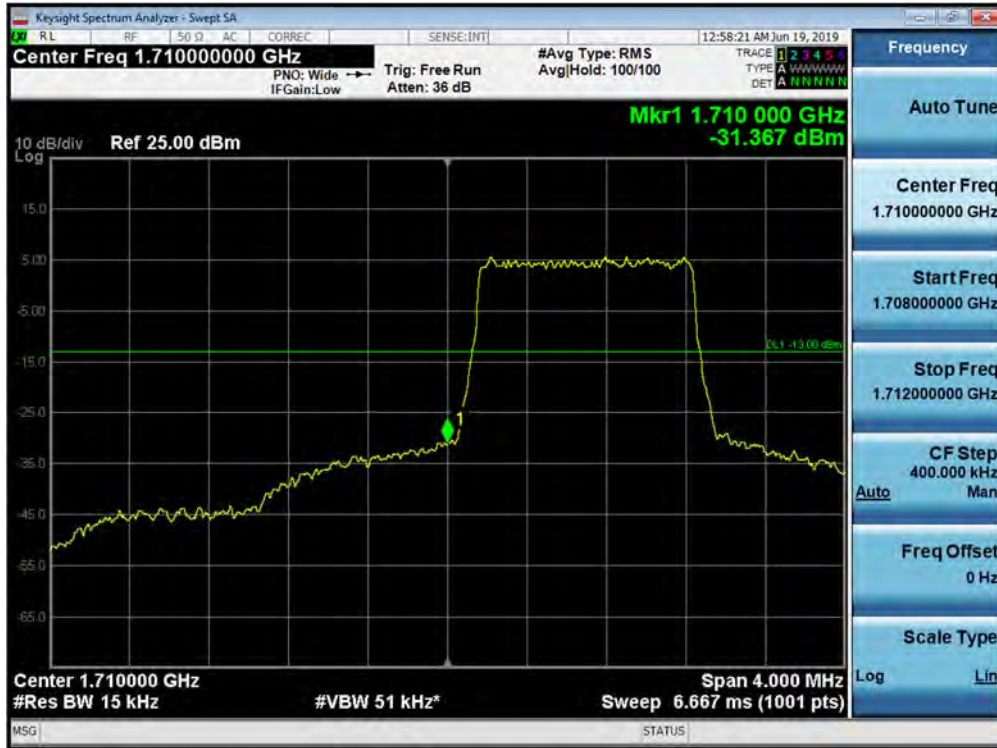
Plot 7-156. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



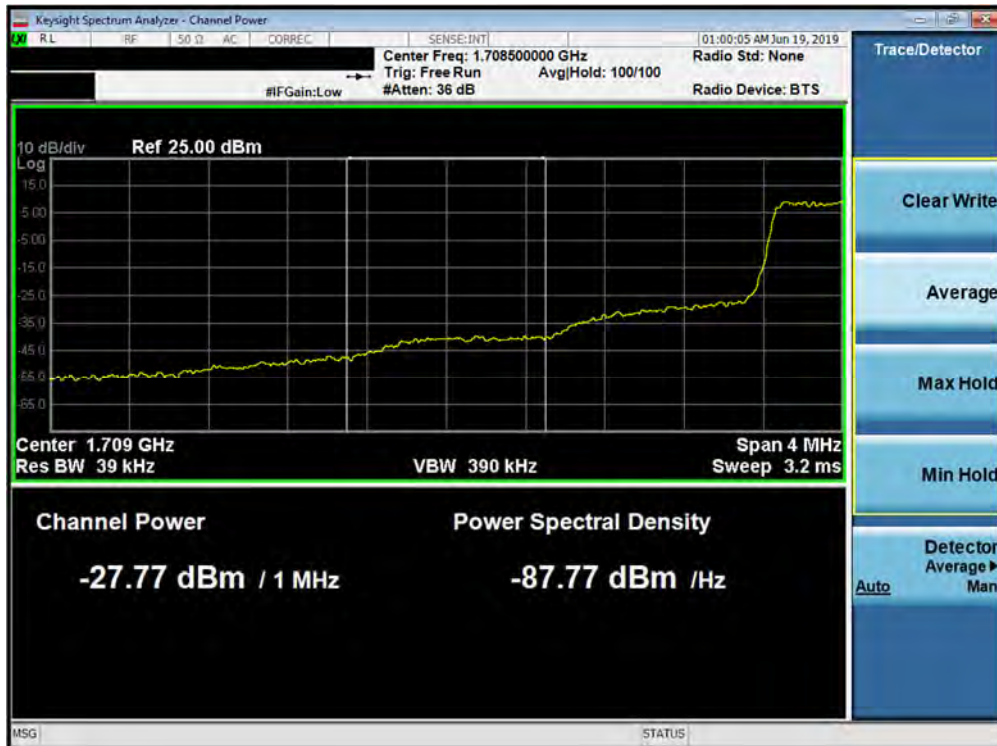
Plot 7-157. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 101 of 186

Band 66/4



Plot 7-158. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

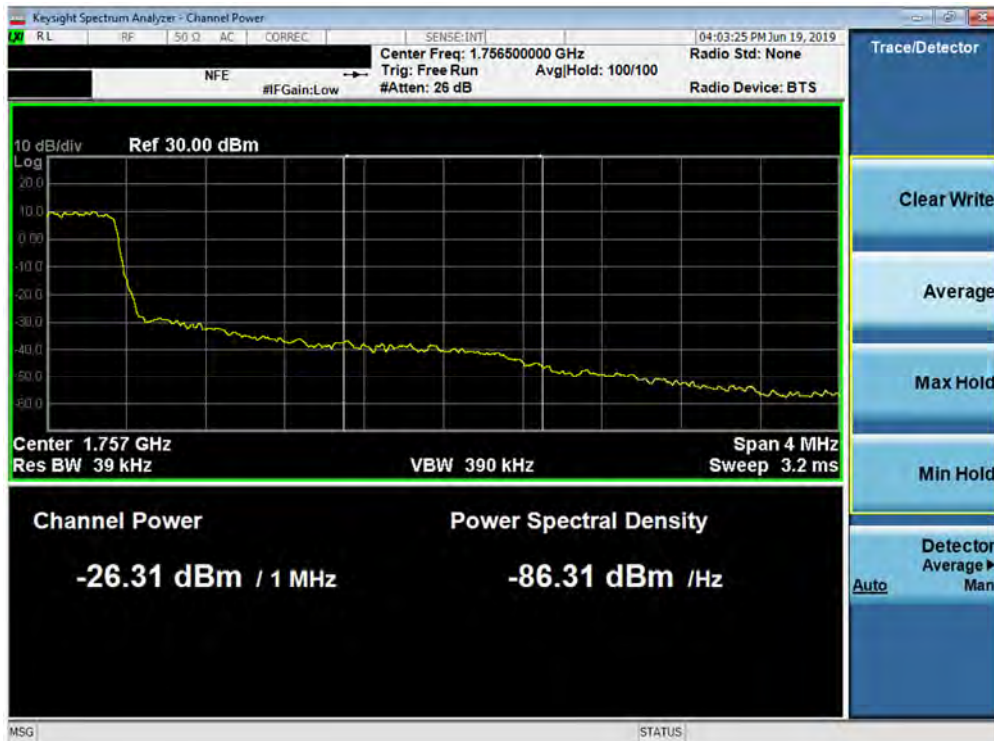


Plot 7-159. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 102 of 186



Plot 7-160. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

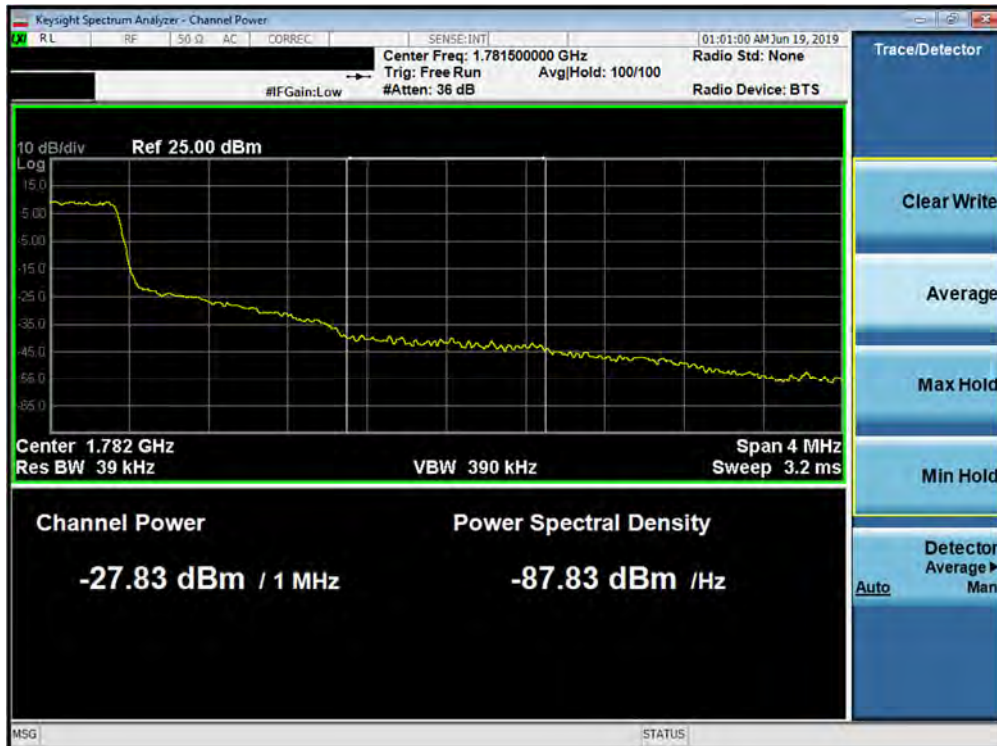


Plot 7-161. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 103 of 186

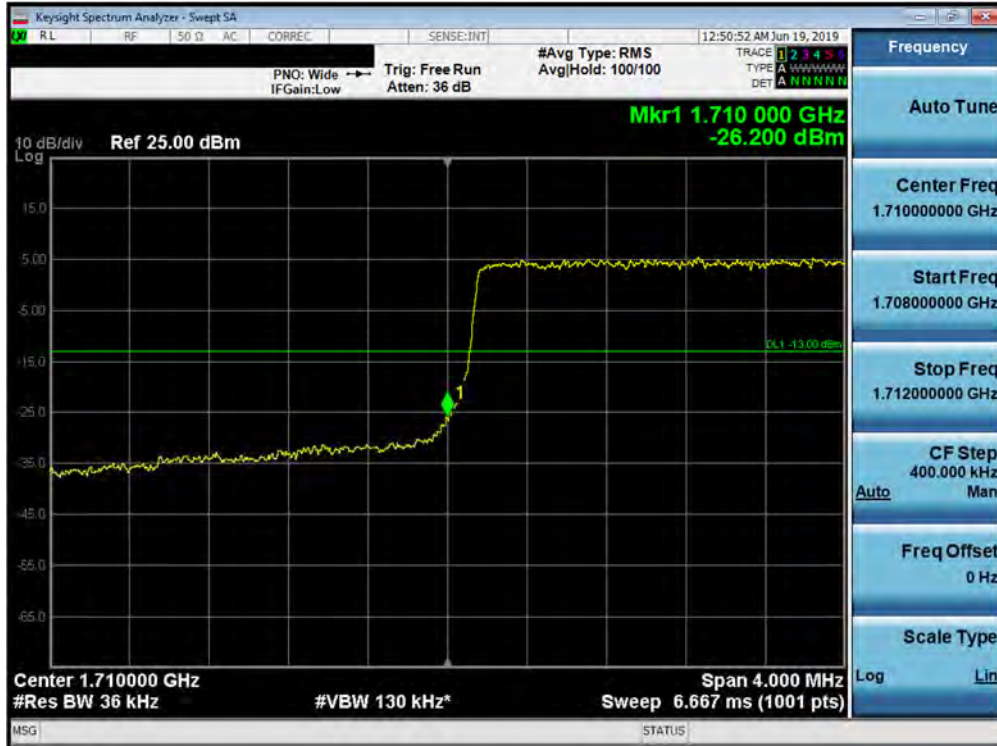


Plot 7-162. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-163. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 104 of 186



Plot 7-164. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

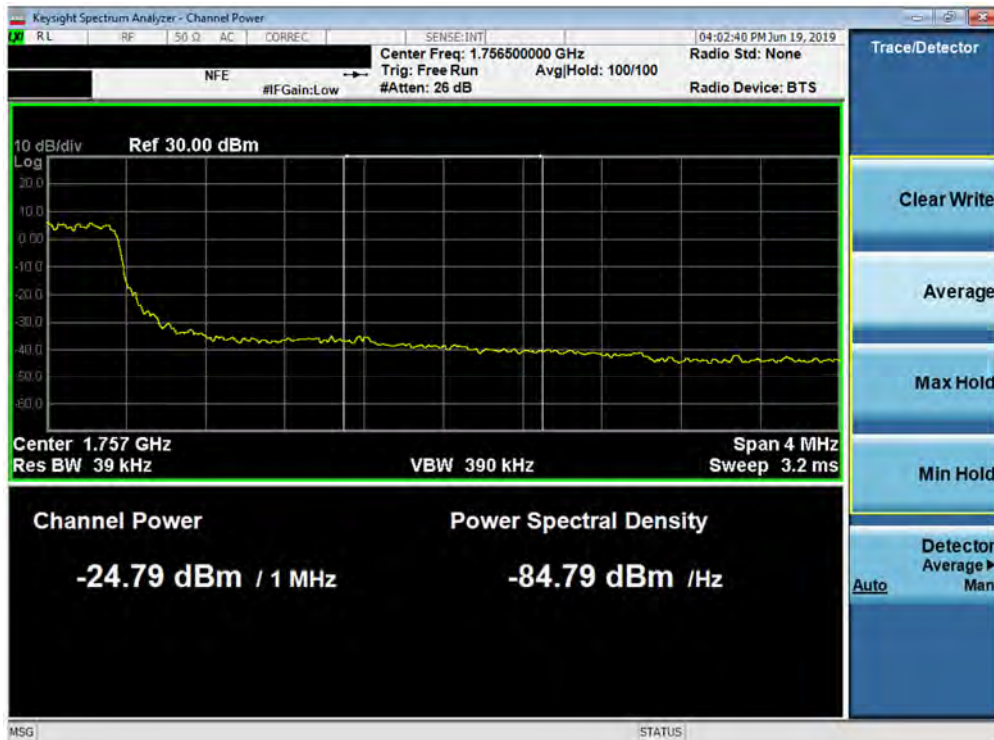


Plot 7-165. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 105 of 186

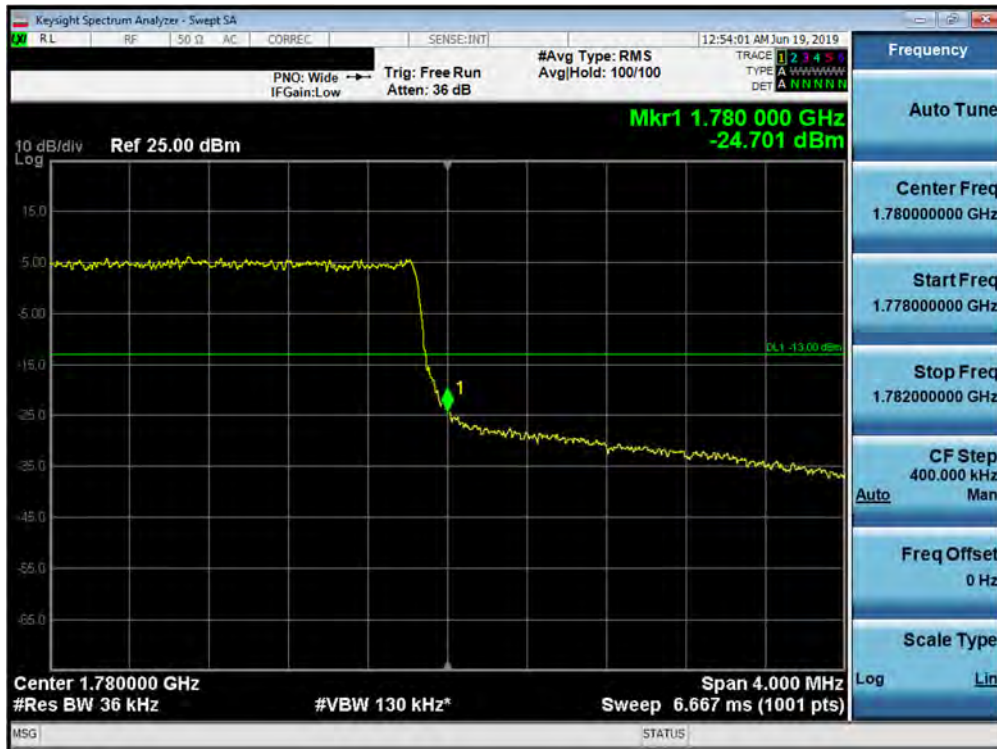


Plot 7-166. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

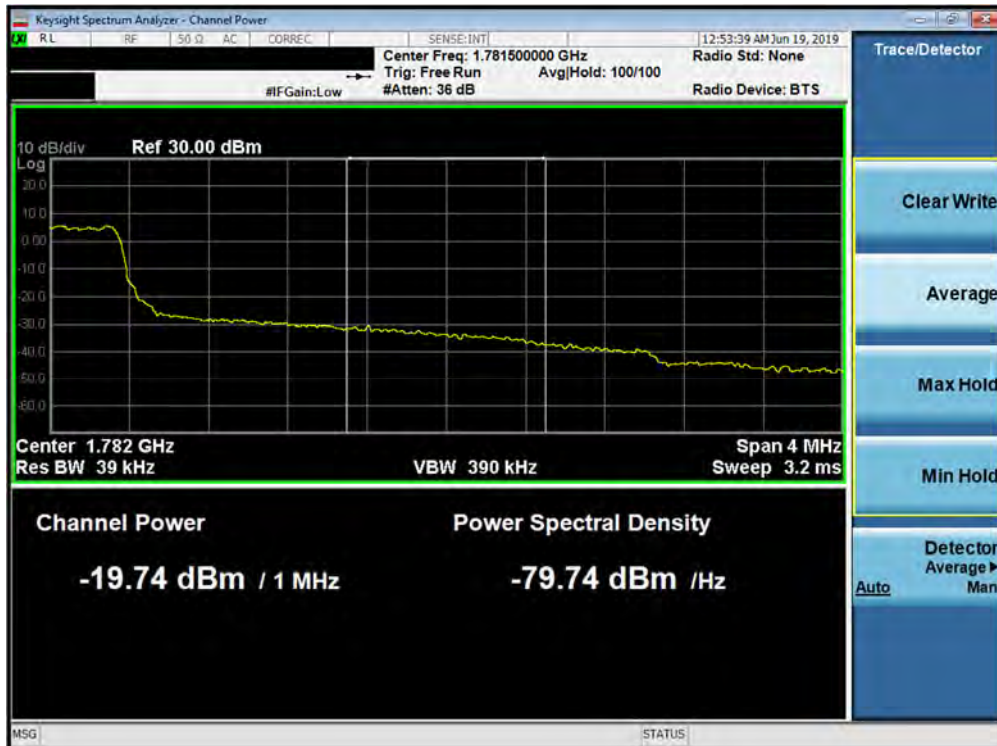


Plot 7-167. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 106 of 186

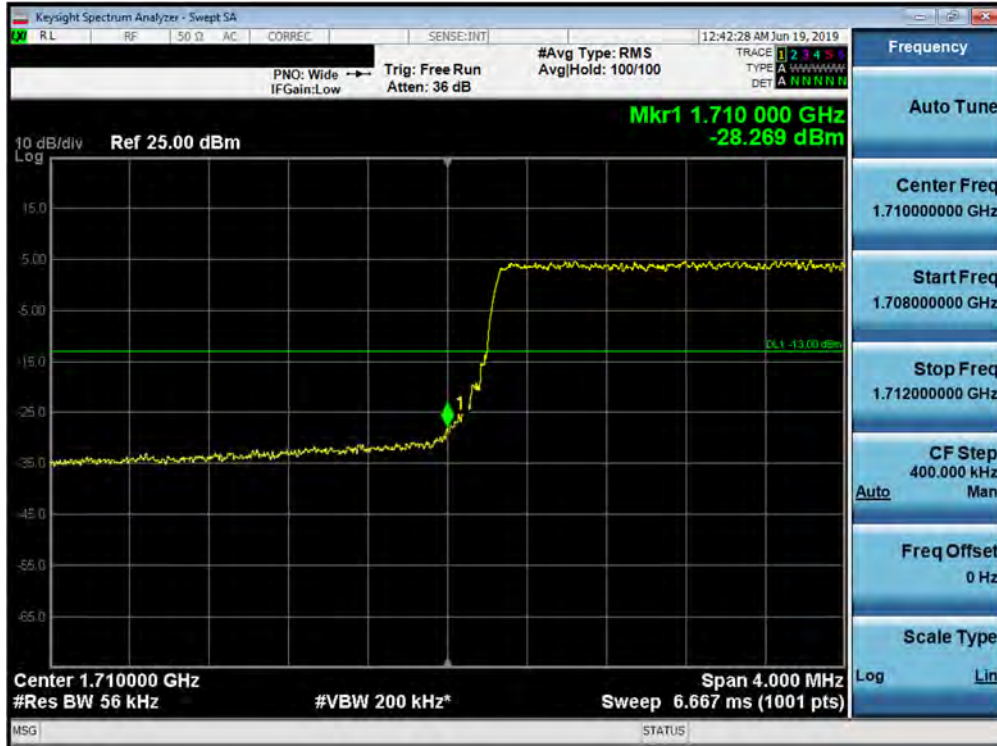


Plot 7-168. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

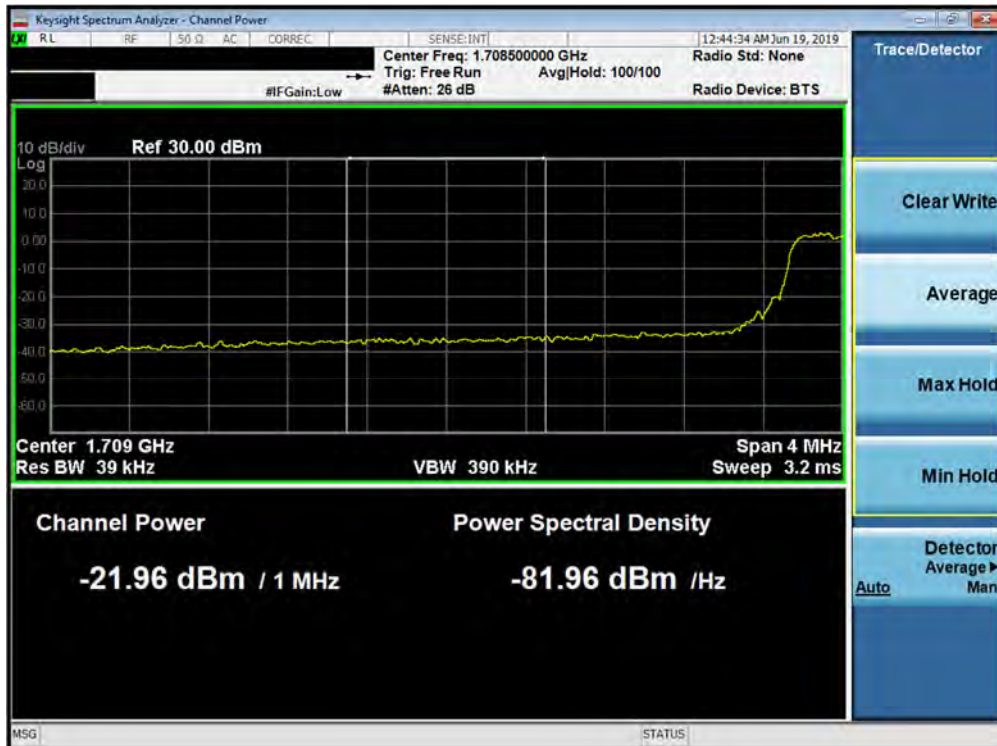


Plot 7-169. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 107 of 186

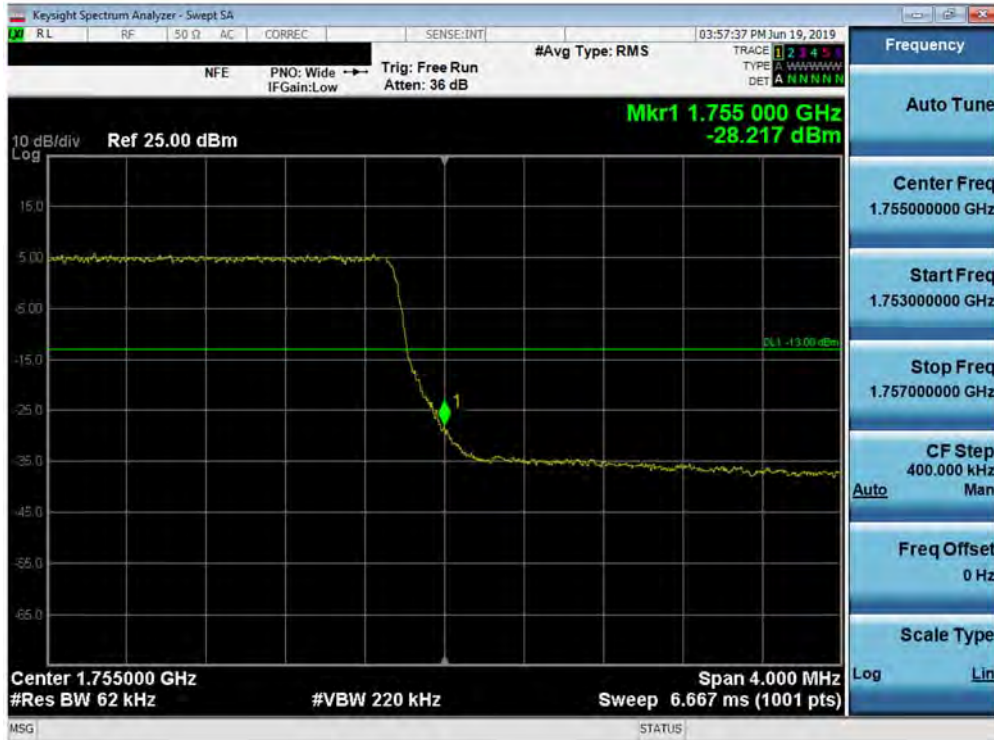


Plot 7-170. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

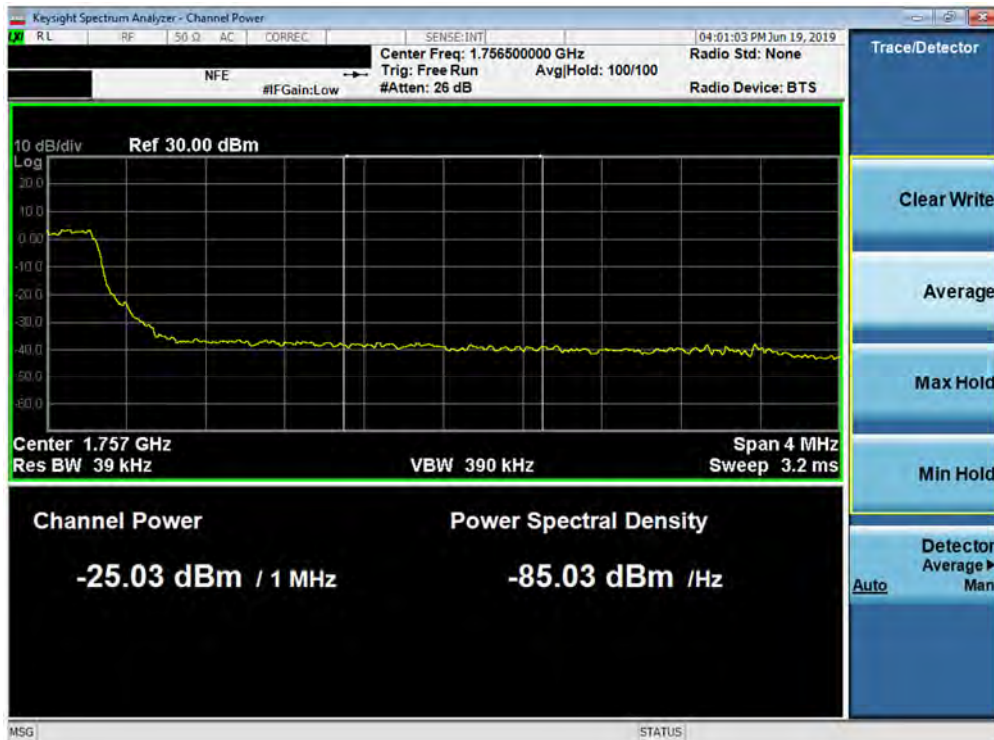


Plot 7-171. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 108 of 186

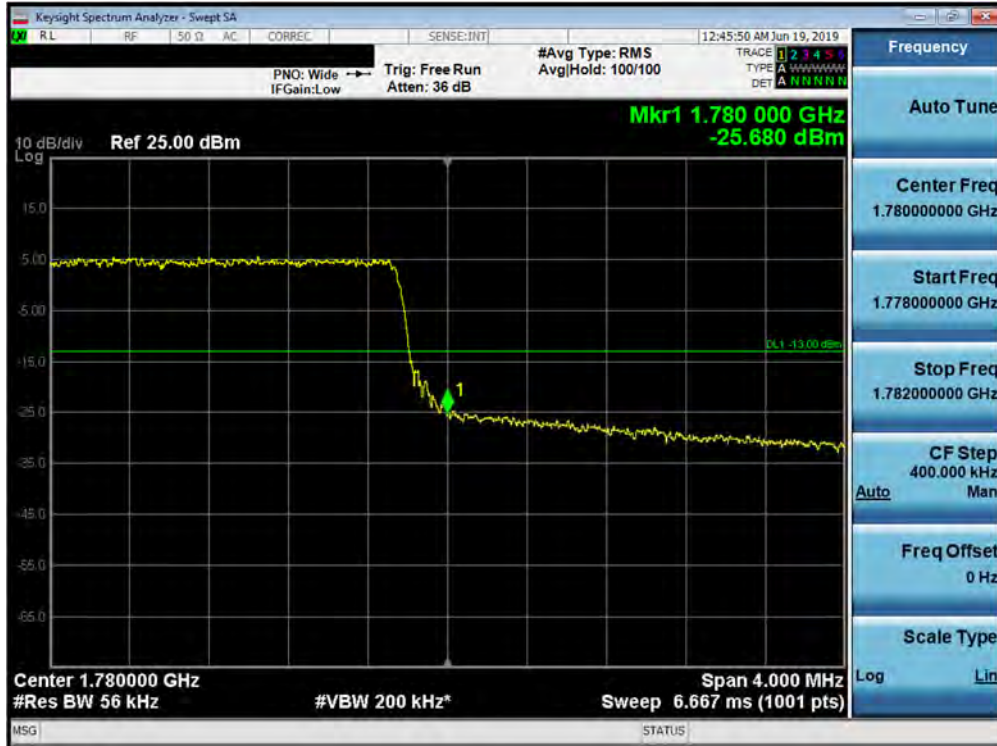


Plot 7-172. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-173. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 109 of 186

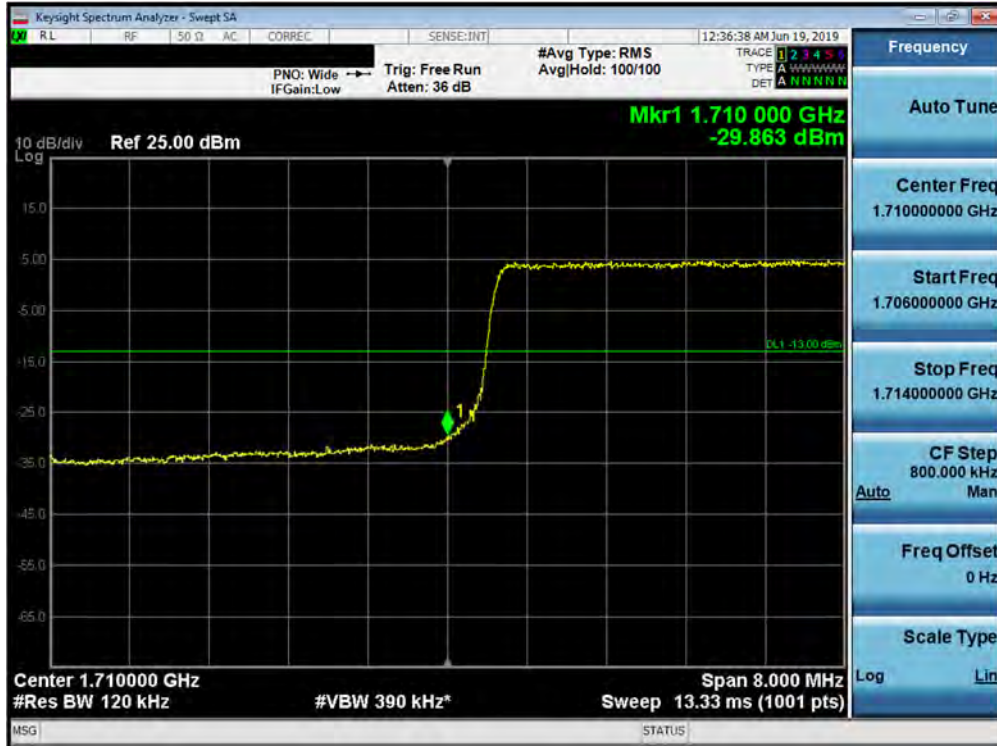


Plot 7-174. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

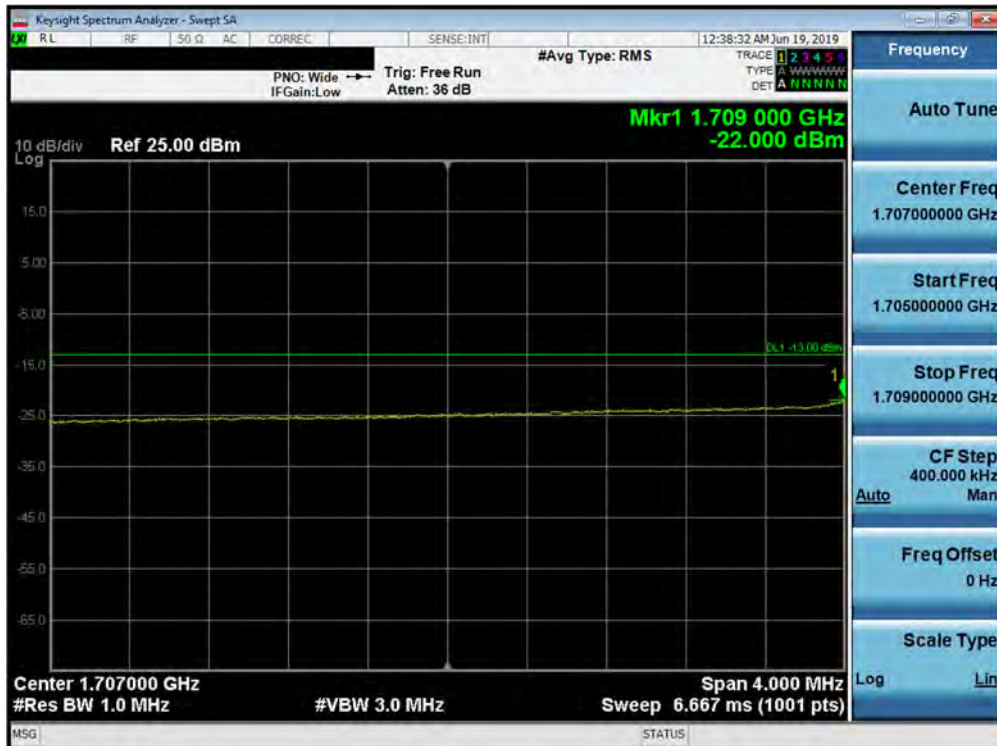


Plot 7-175. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 110 of 186

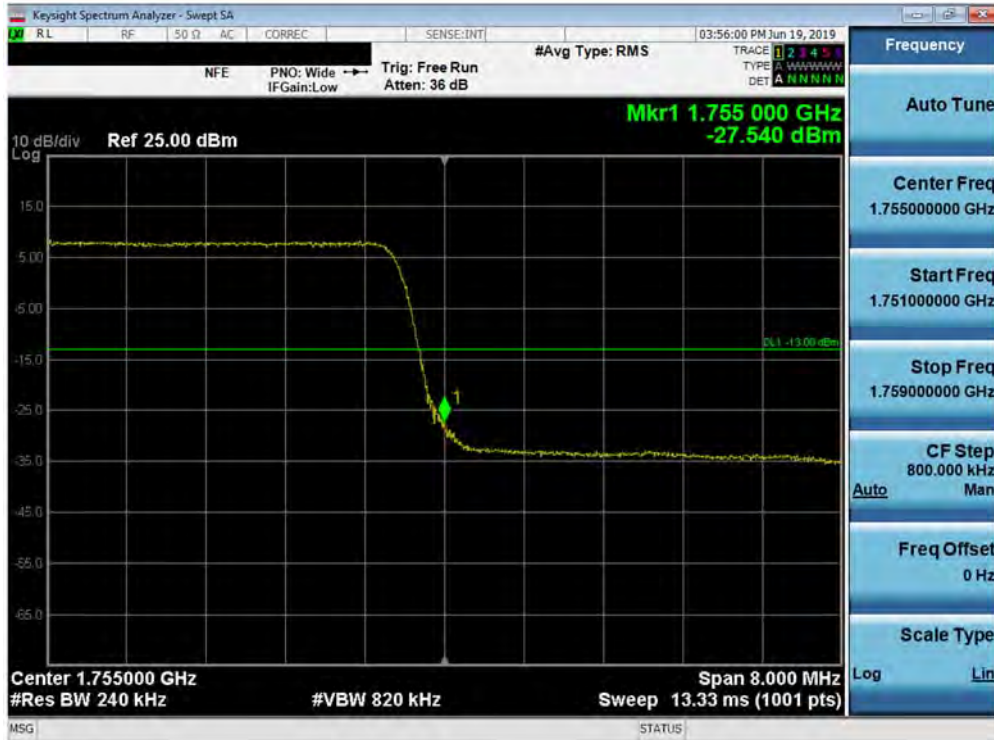


Plot 7-176. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-177. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 111 of 186

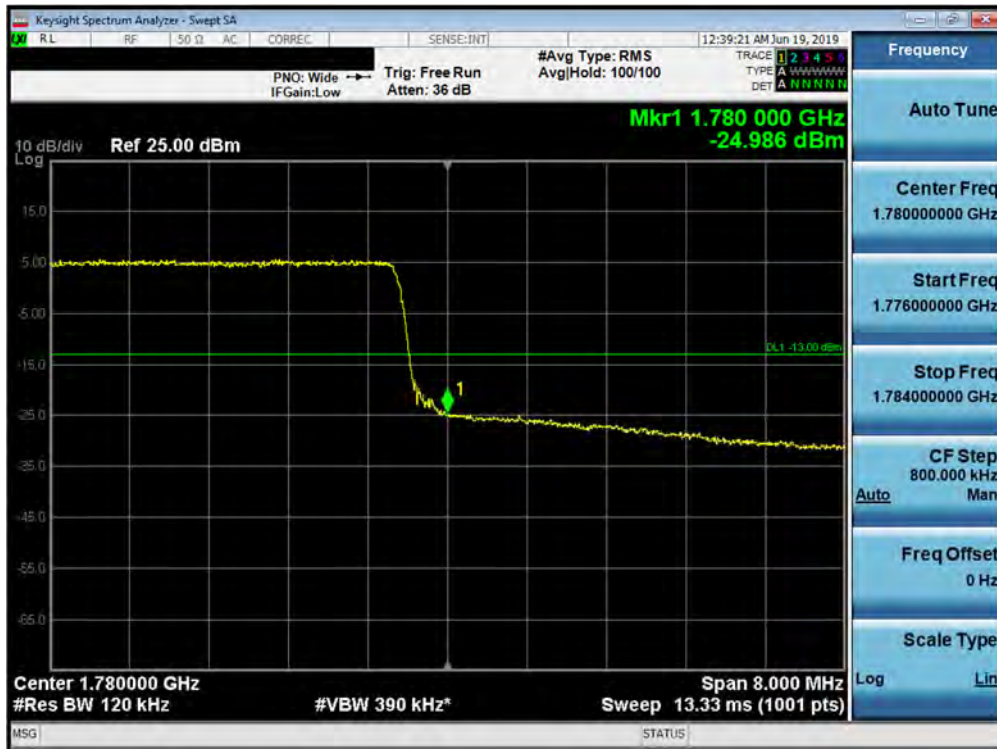


Plot 7-178. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

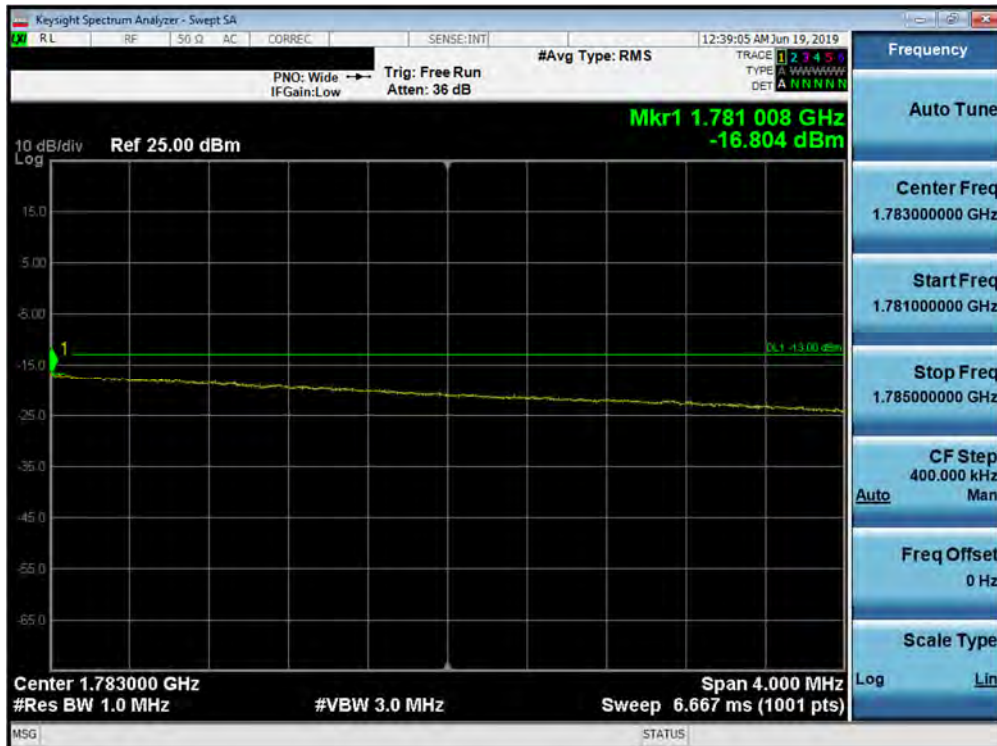


Plot 7-179. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 112 of 186

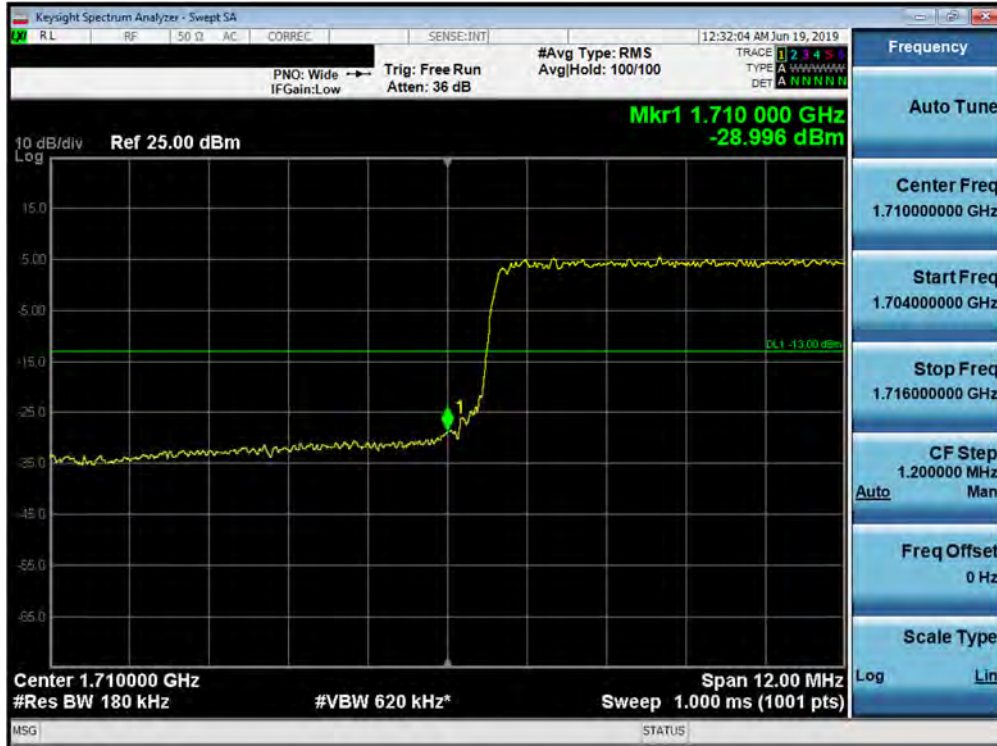


Plot 7-180. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

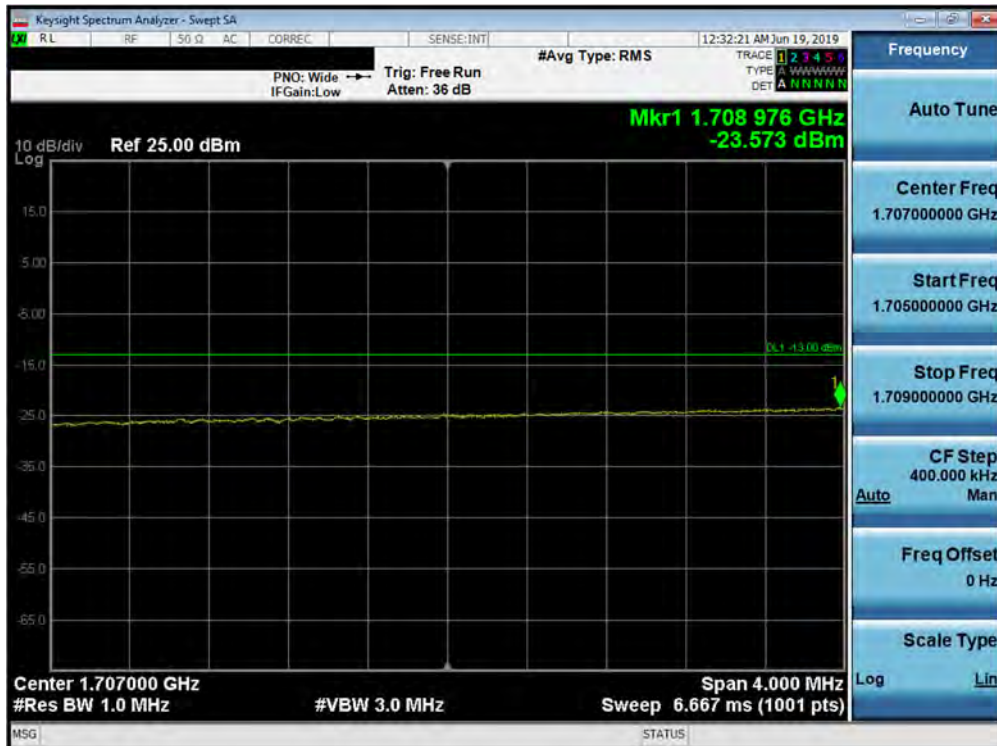


Plot 7-181. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 113 of 186

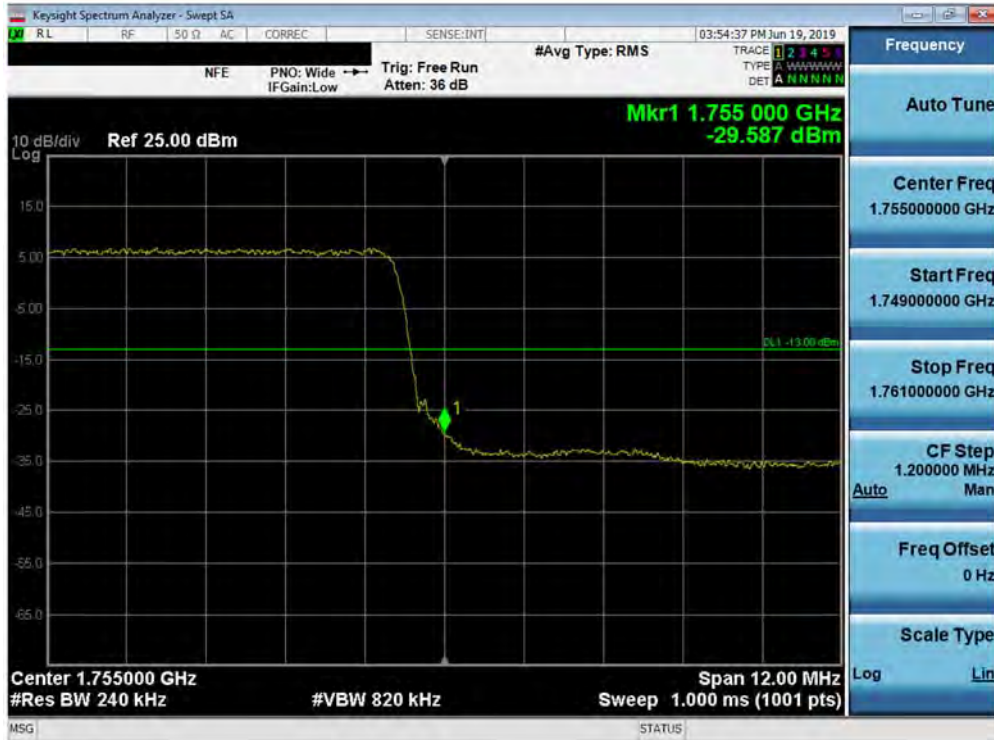


Plot 7-182. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-183. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 114 of 186

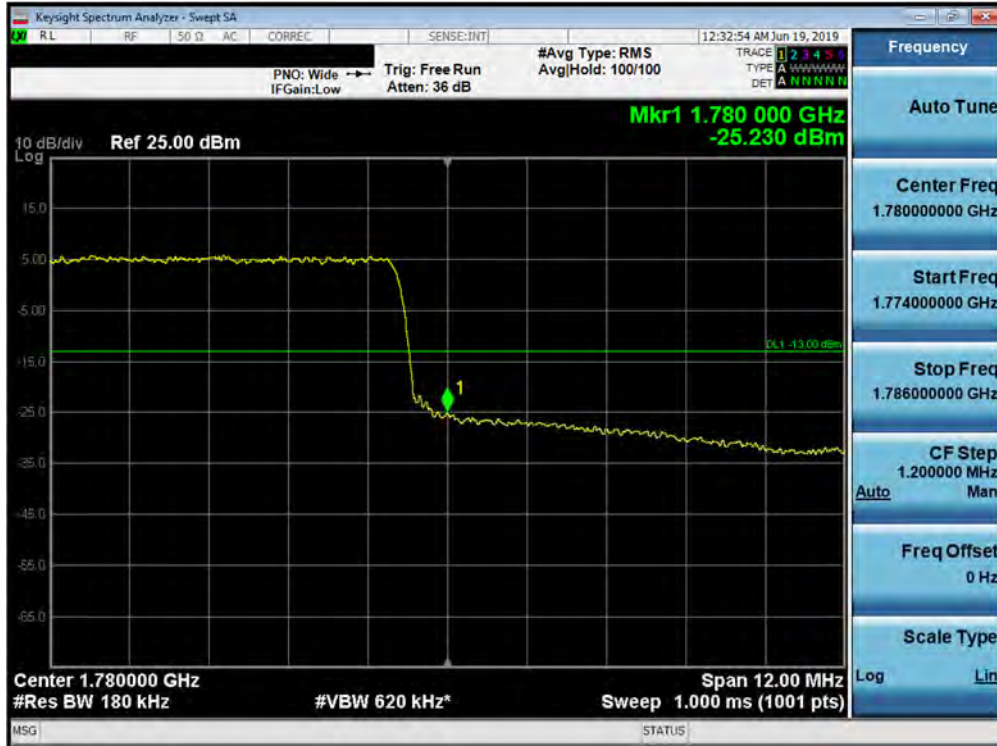


Plot 7-184. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

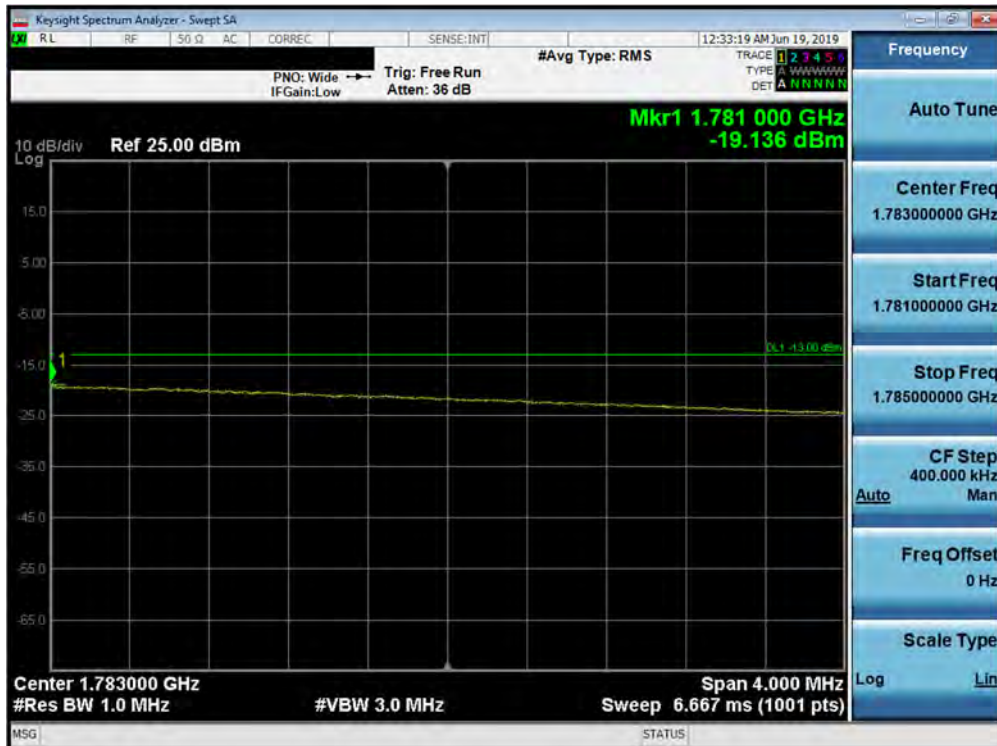


Plot 7-185. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 115 of 186

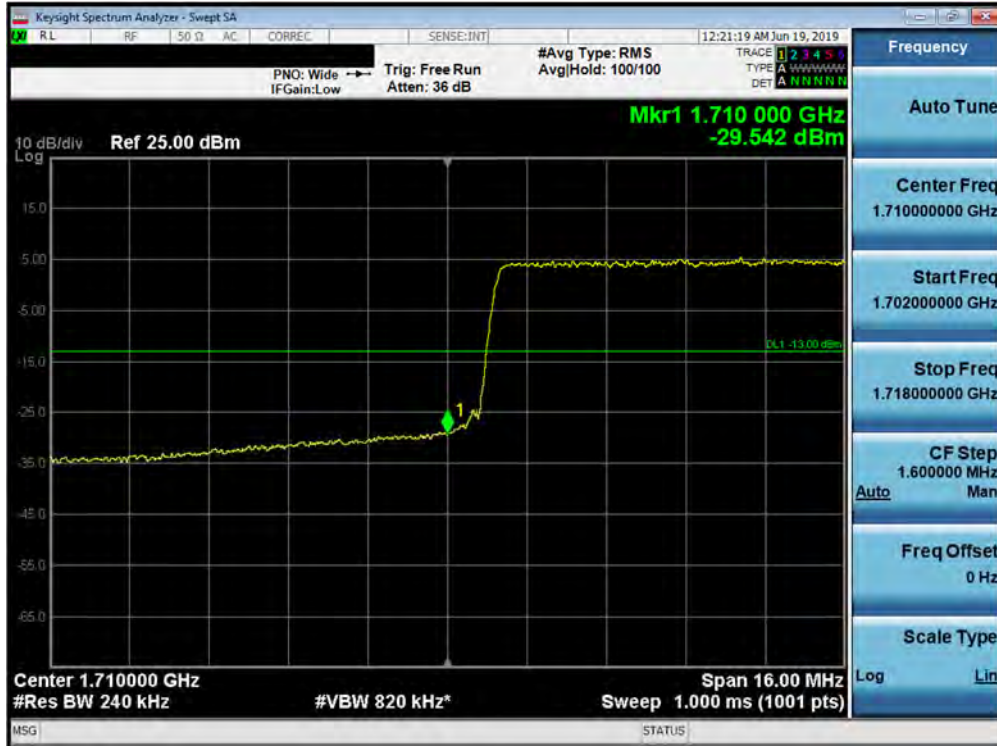


Plot 7-186. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

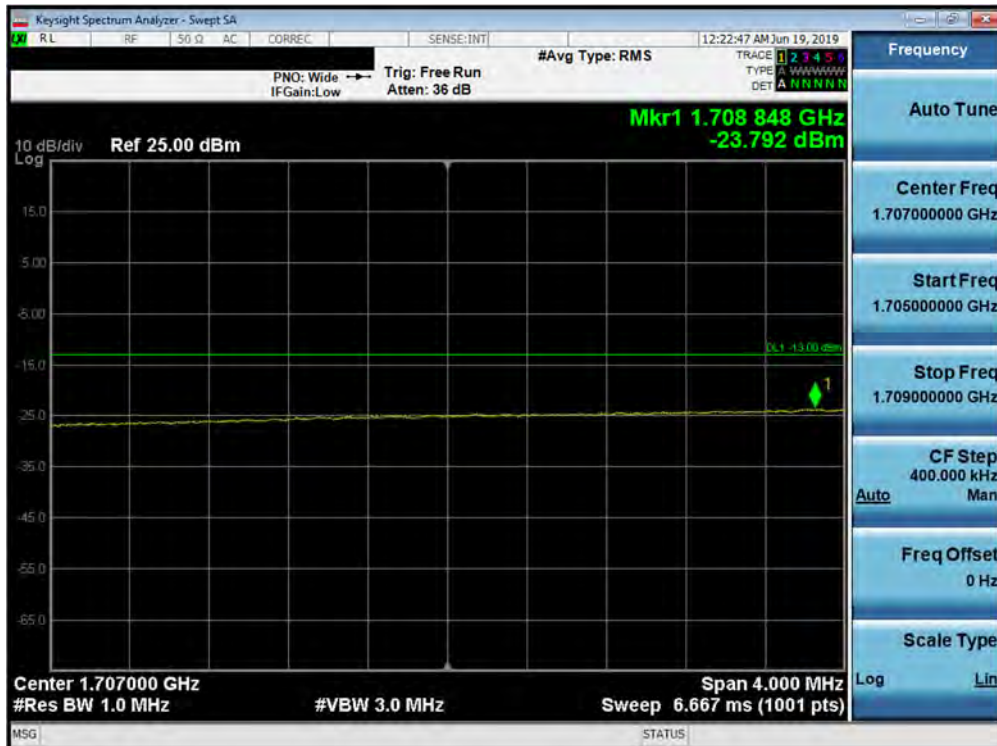


Plot 7-187. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 116 of 186



Plot 7-188. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

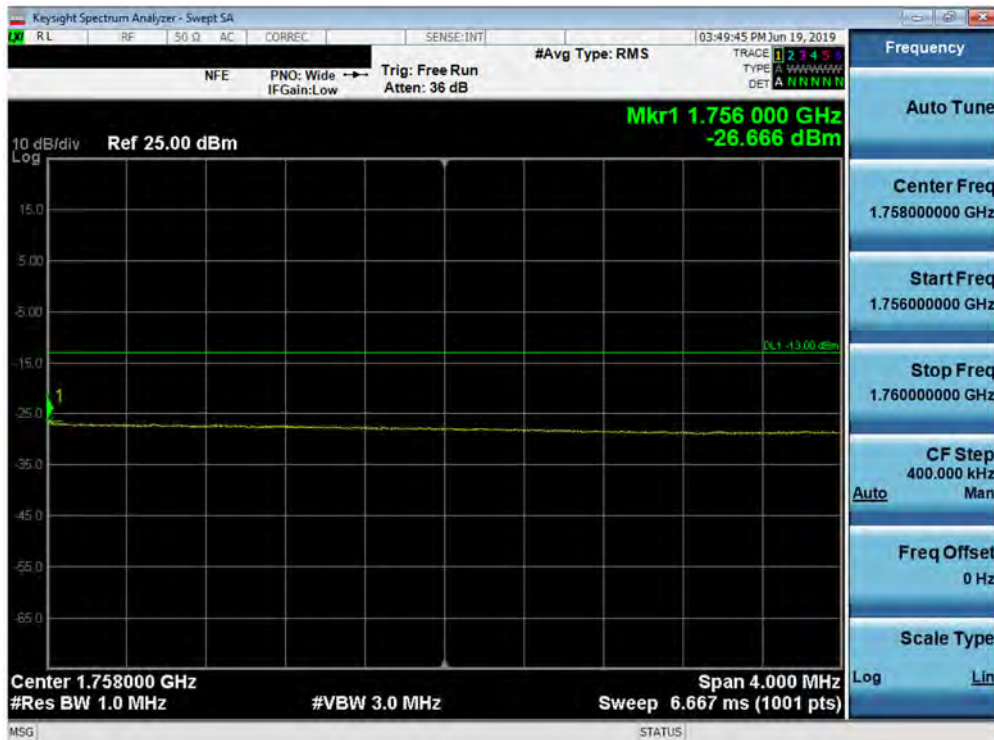


Plot 7-189. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 117 of 186



Plot 7-190. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

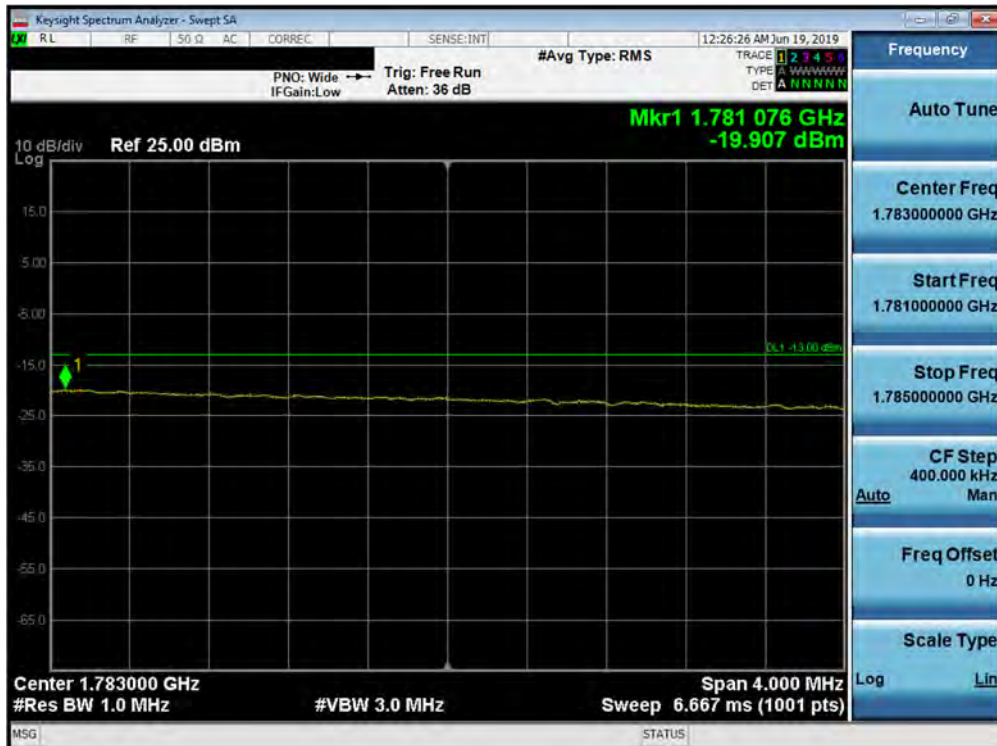


Plot 7-191. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 118 of 186



Plot 7-192. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



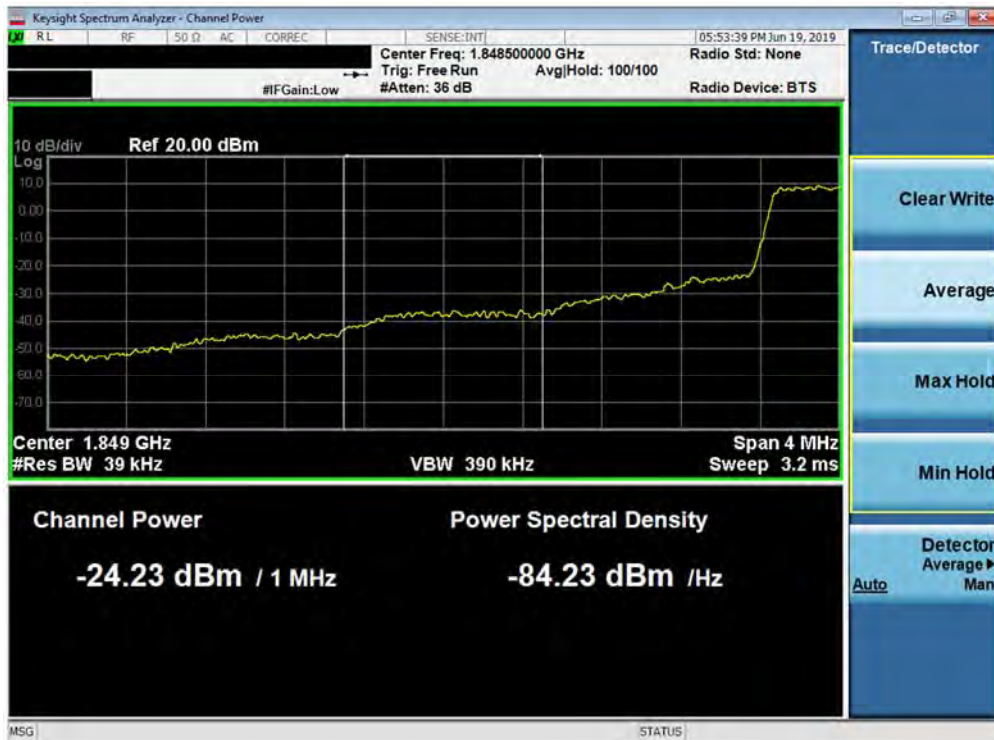
Plot 7-193. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 119 of 186

Band 25/2

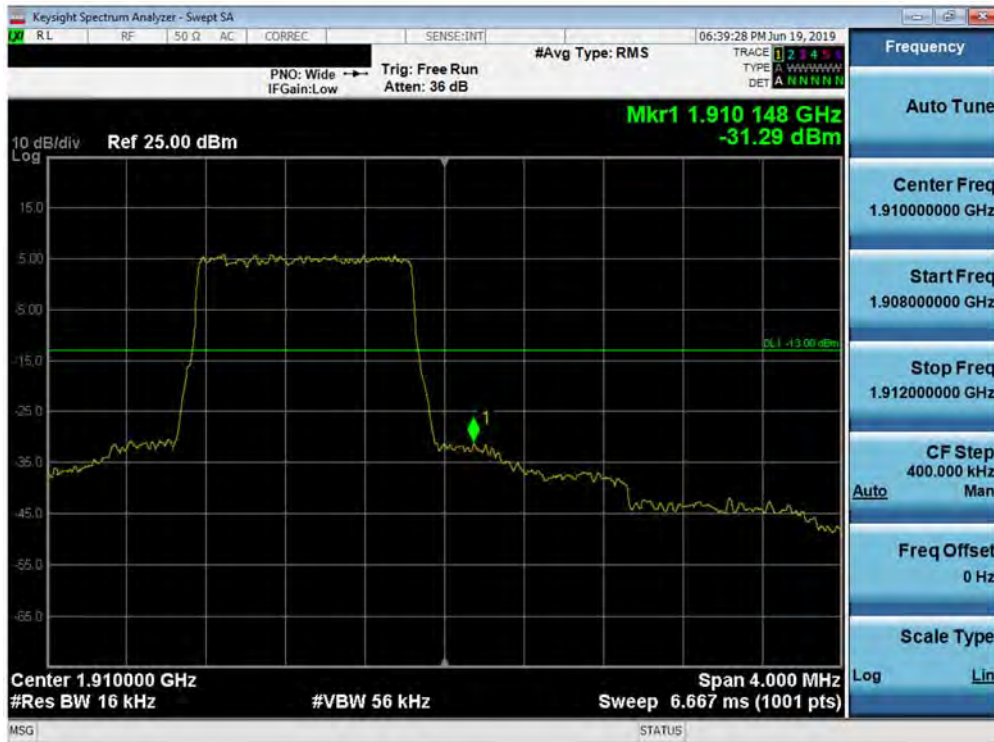


Plot 7-194. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-195. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 120 of 186



Plot 7-196. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

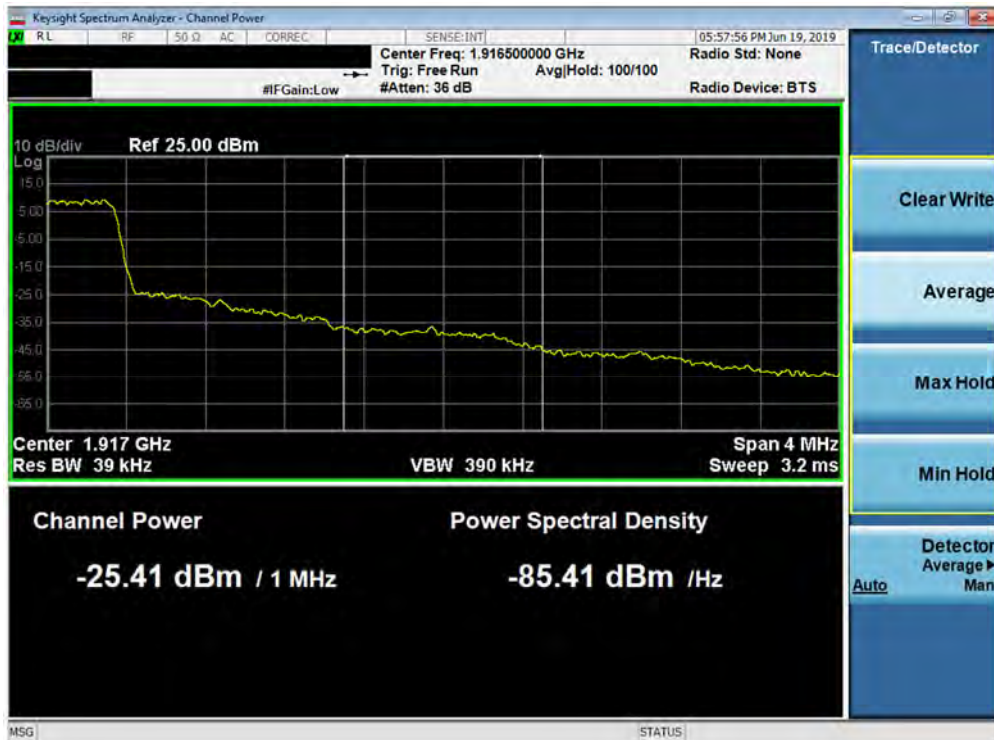


Plot 7-197. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 121 of 186

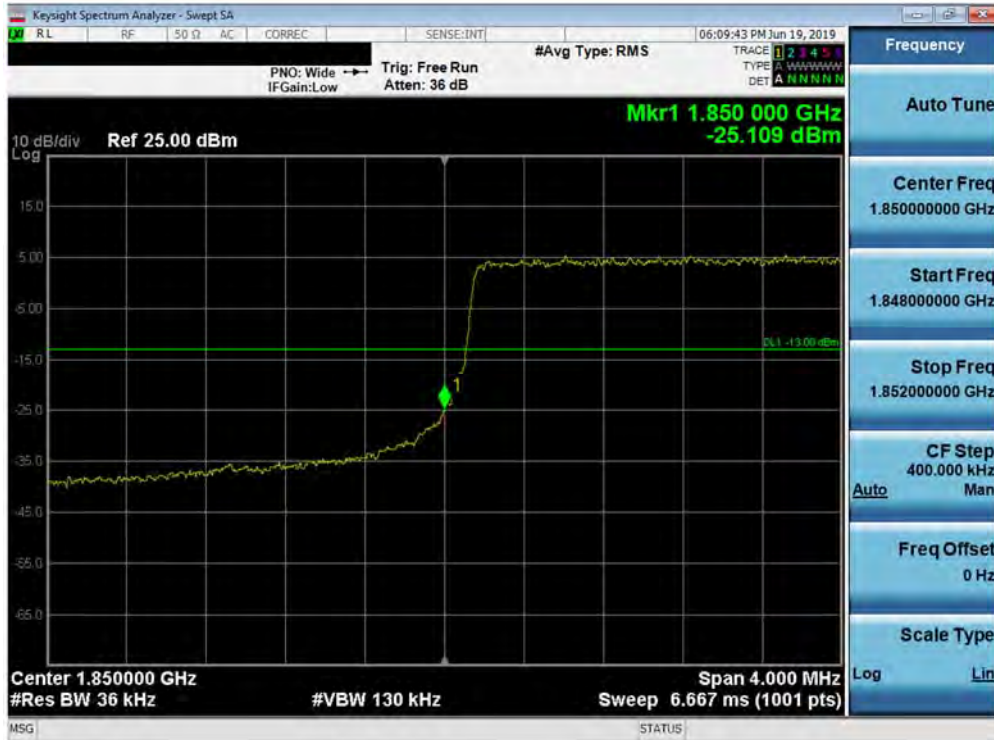


Plot 7-198. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

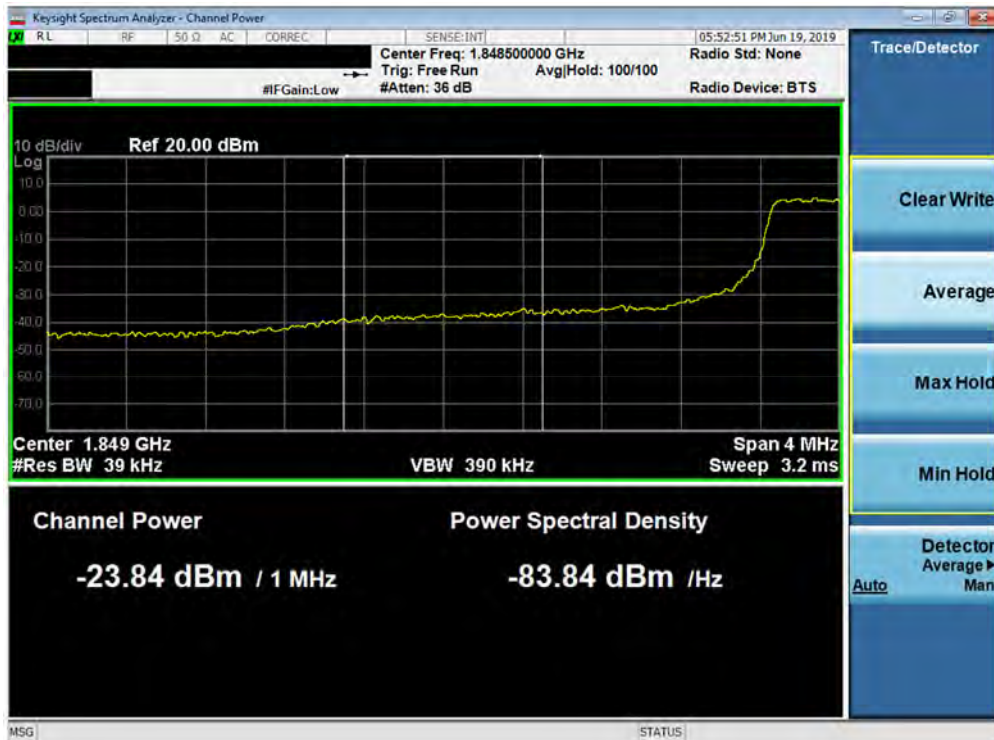


Plot 7-199. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 122 of 186



Plot 7-200. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

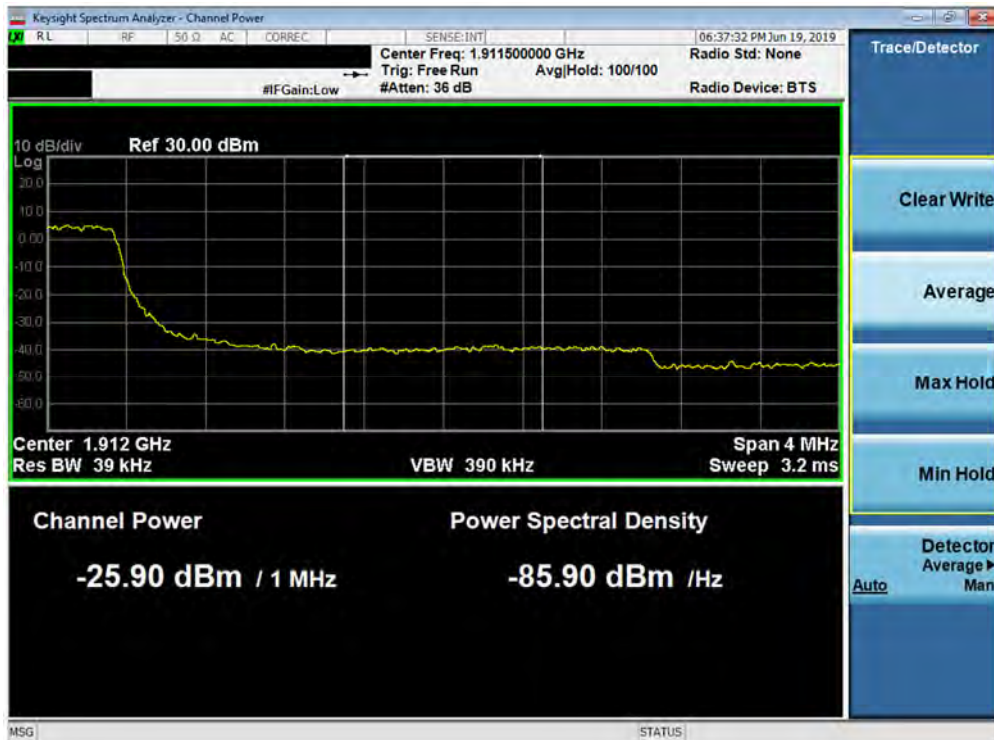


Plot 7-201. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 123 of 186



Plot 7-202. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

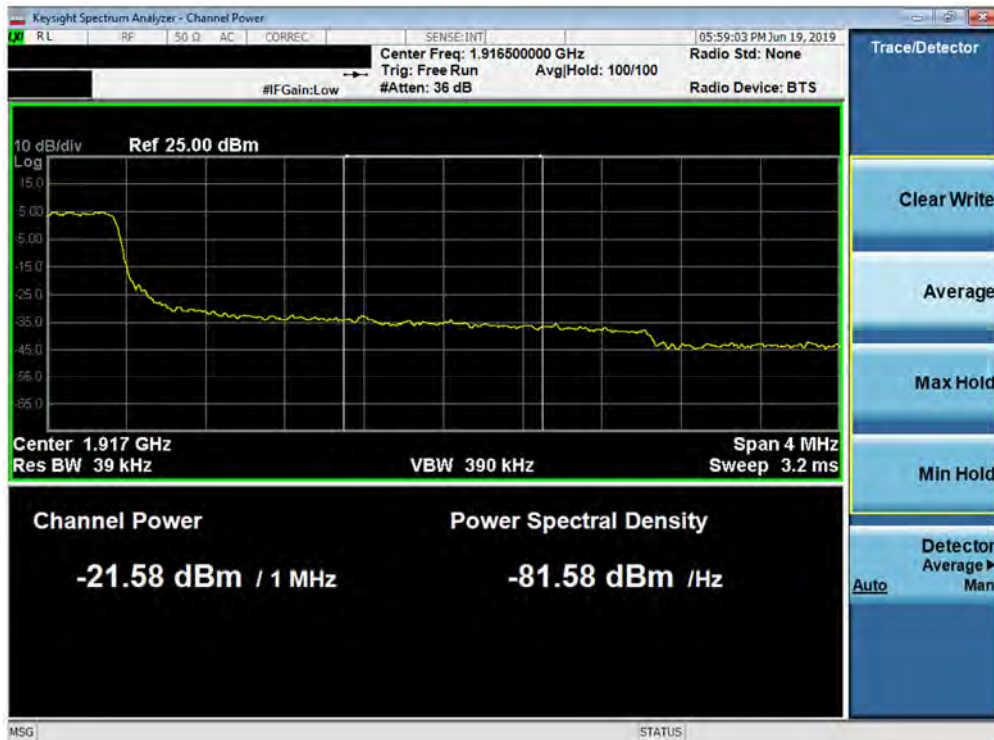


Plot 7-203. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 124 of 186

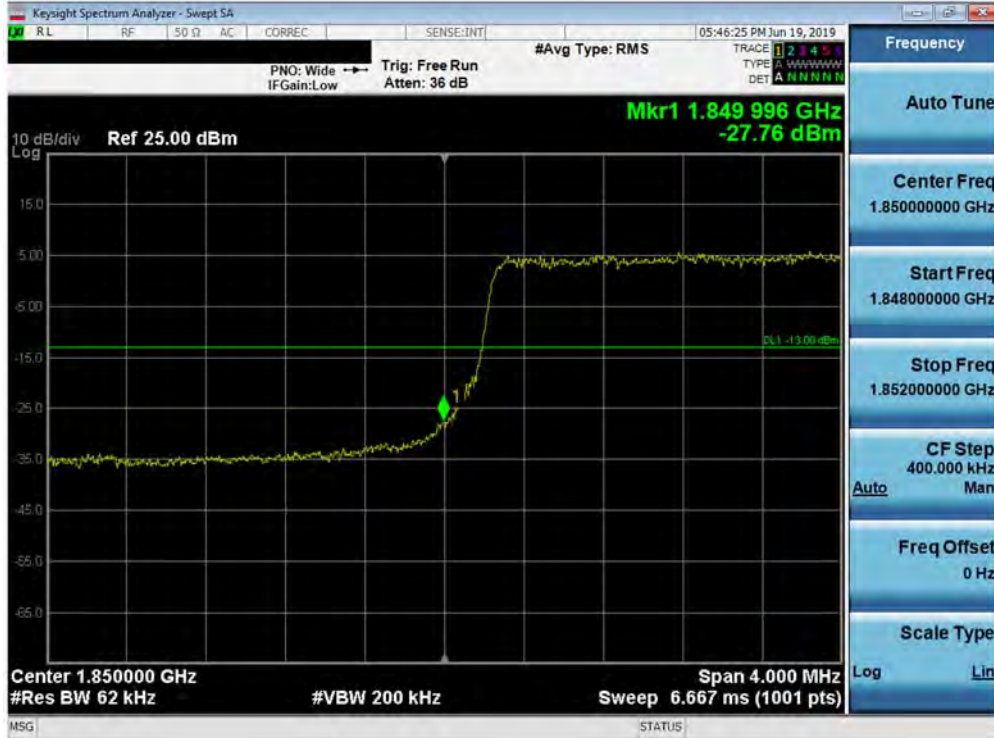


Plot 7-204. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

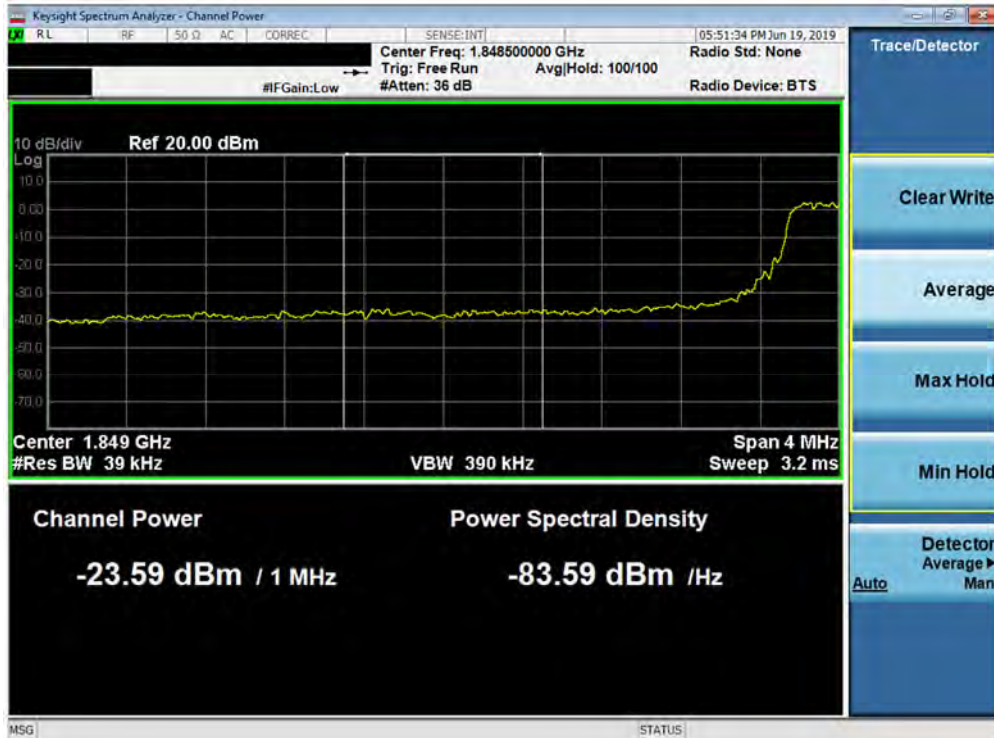


Plot 7-205. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 125 of 186



Plot 7-206. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

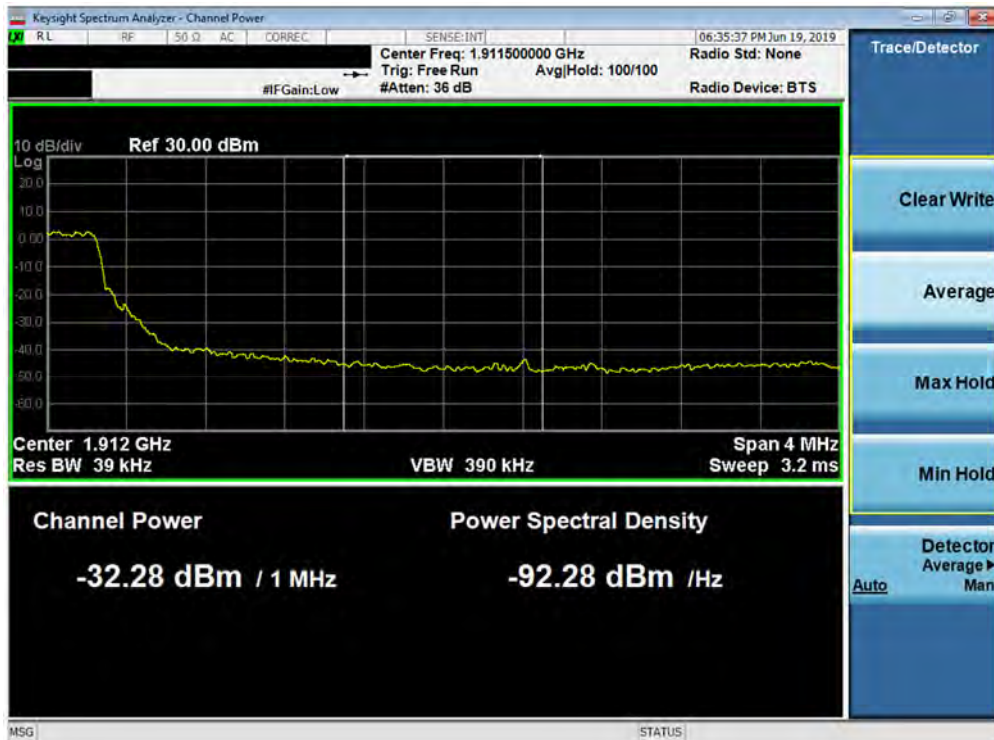


Plot 7-207. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 126 of 186



Plot 7-208. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

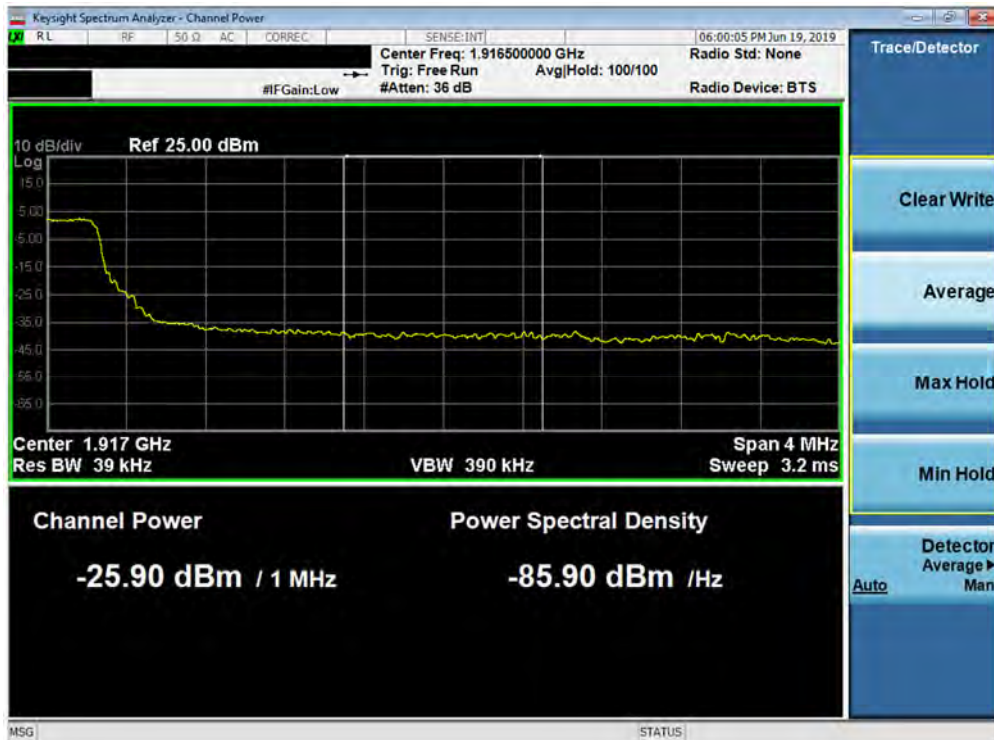


Plot 7-209. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 127 of 186

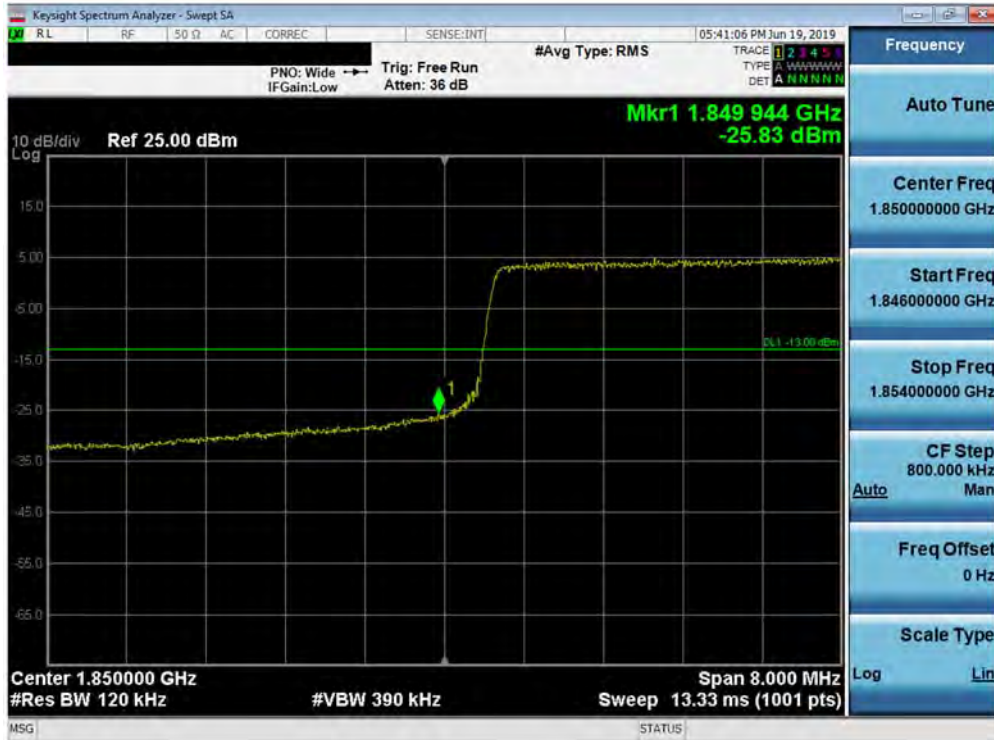


Plot 7-210. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

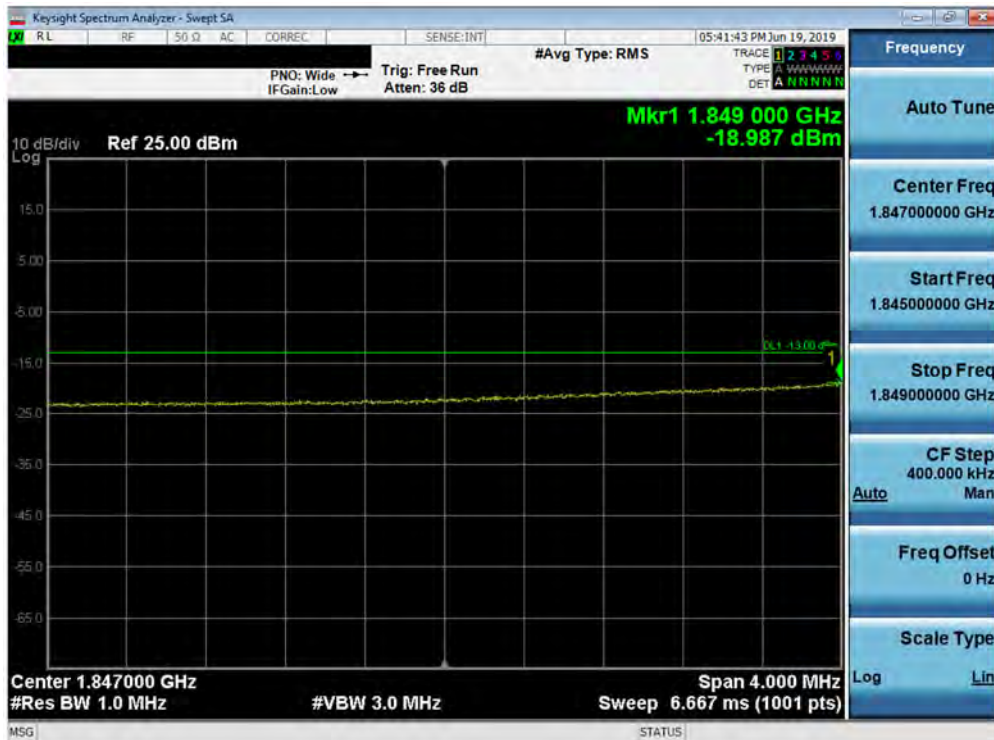


Plot 7-211. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 128 of 186



Plot 7-212. Lower Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-213. Lower Extended Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 129 of 186

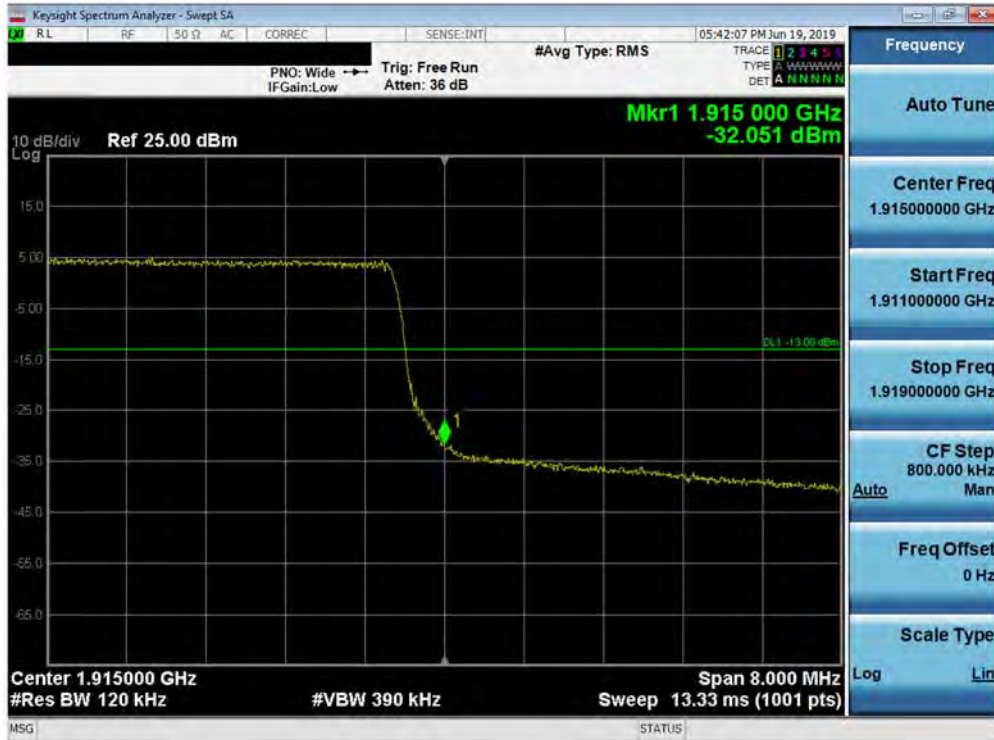


Plot 7-214. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-215. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 130 of 186

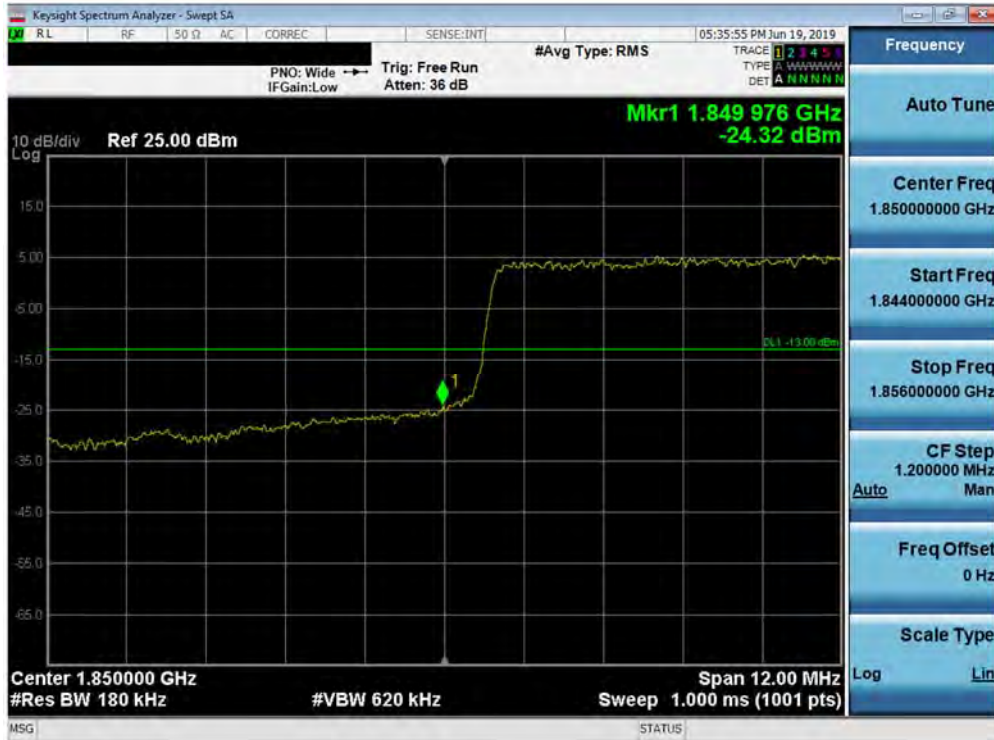


Plot 7-216. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

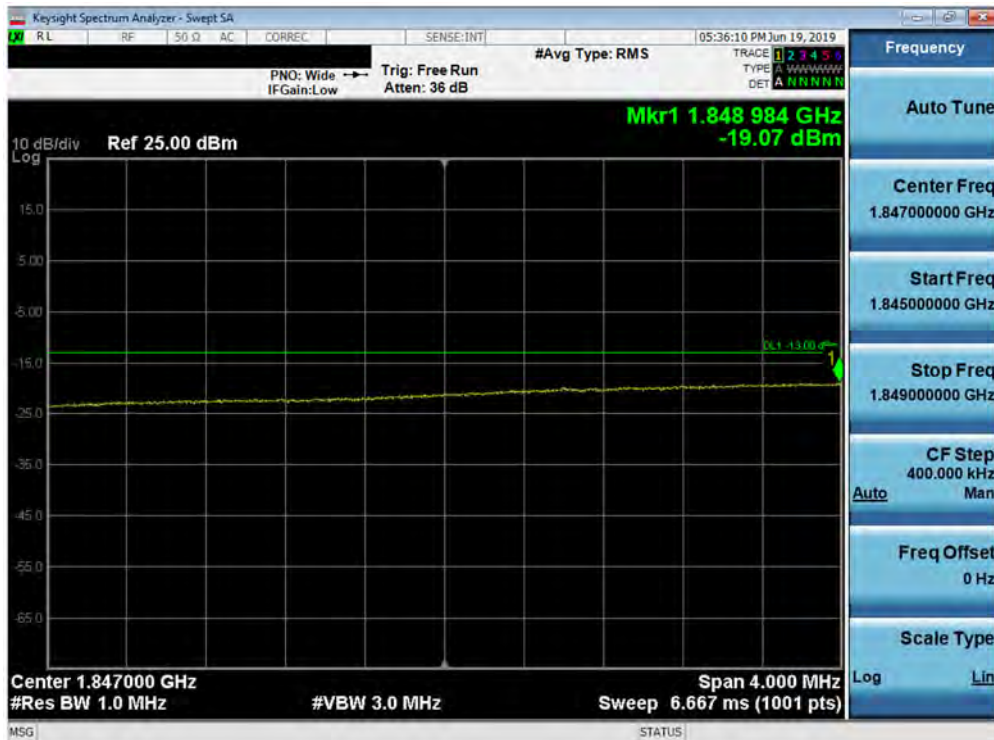


Plot 7-217. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 131 of 186



Plot 7-218. Lower Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

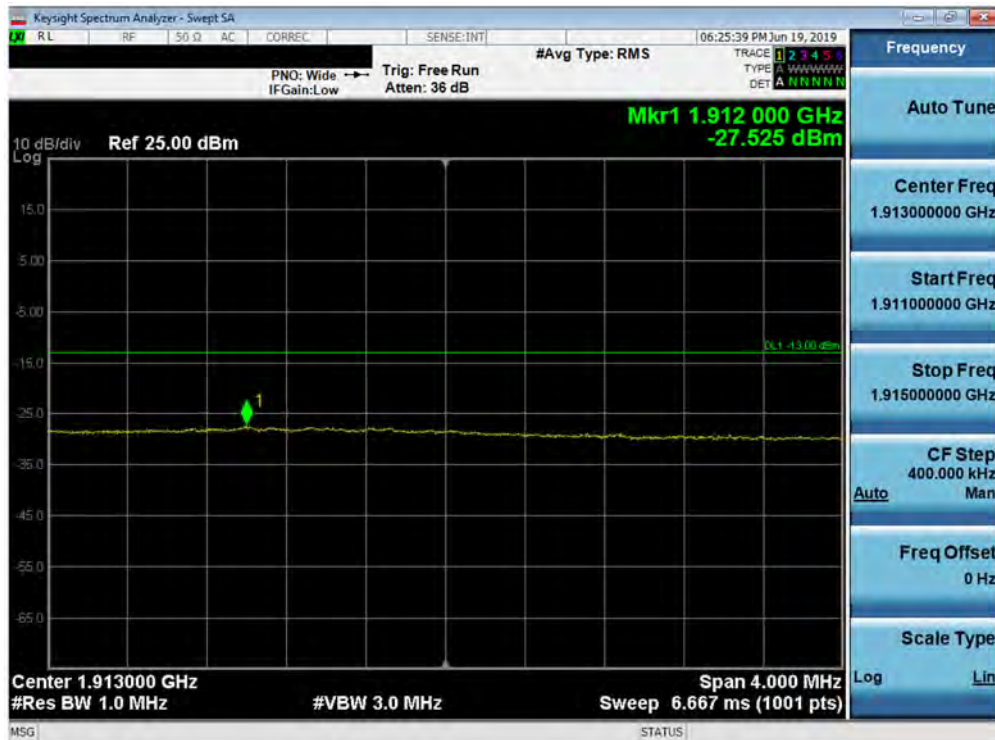


Plot 7-219. Lower Extended Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 132 of 186



Plot 7-220. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

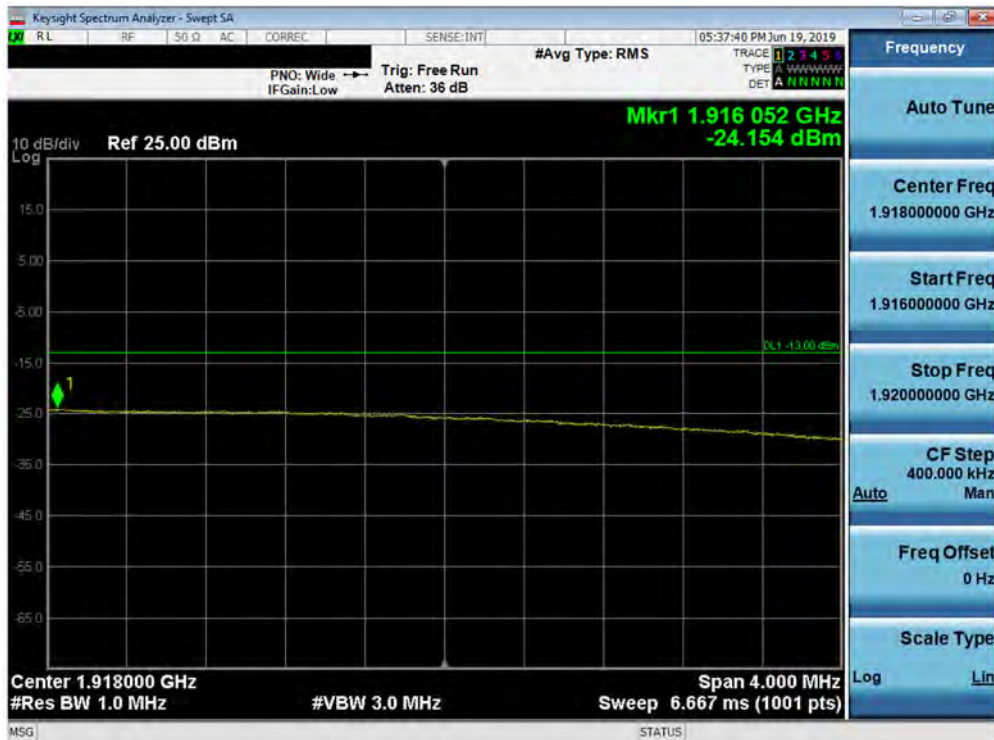


Plot 7-221. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 133 of 186

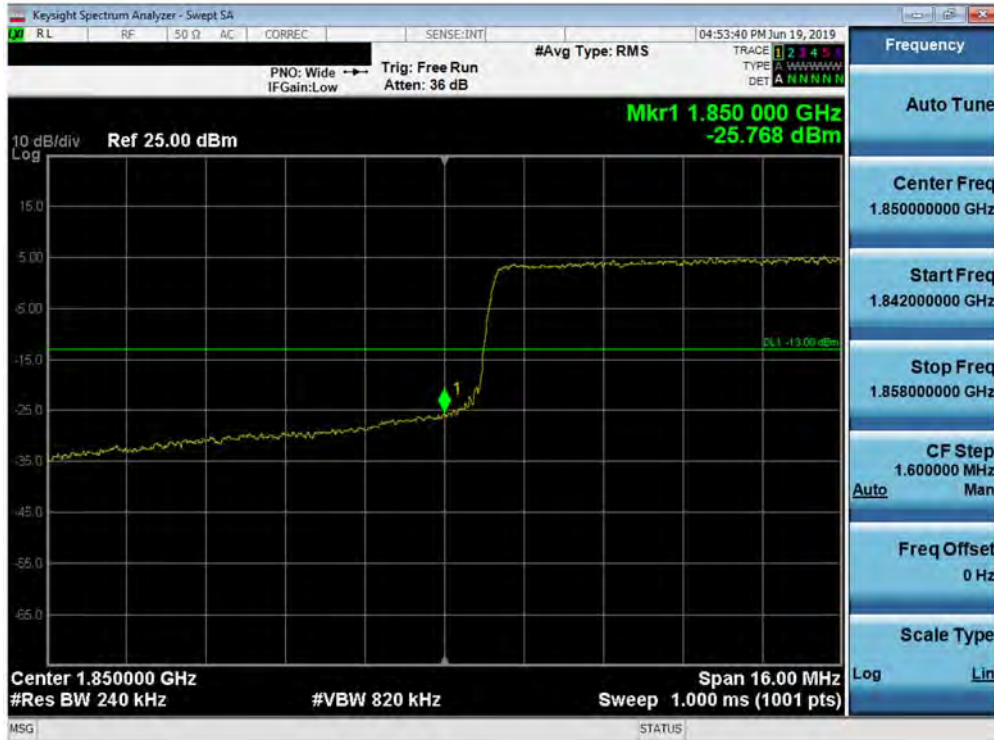


Plot 7-222. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

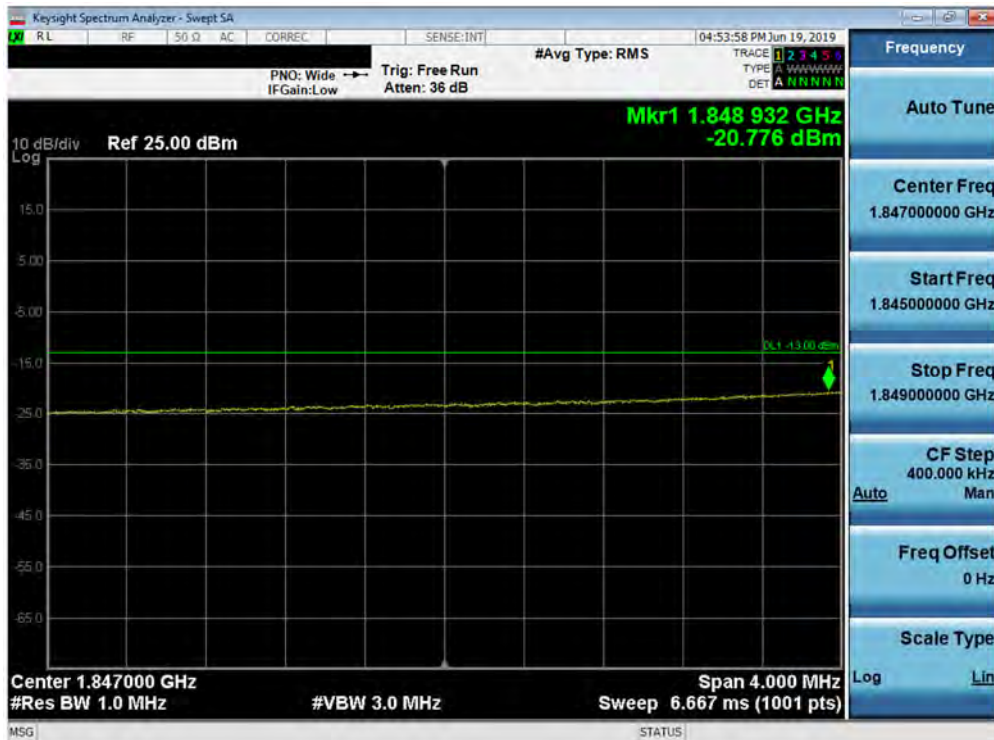


Plot 7-223. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 134 of 186



Plot 7-224. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-225. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 135 of 186



Plot 7-226. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

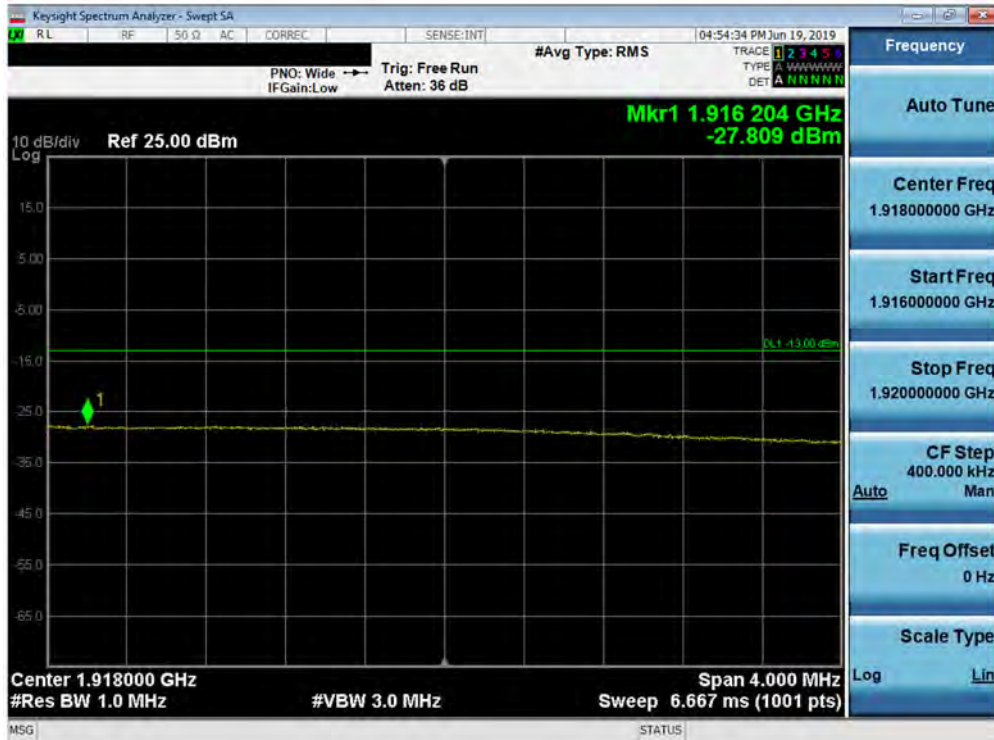


Plot 7-227. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 136 of 186



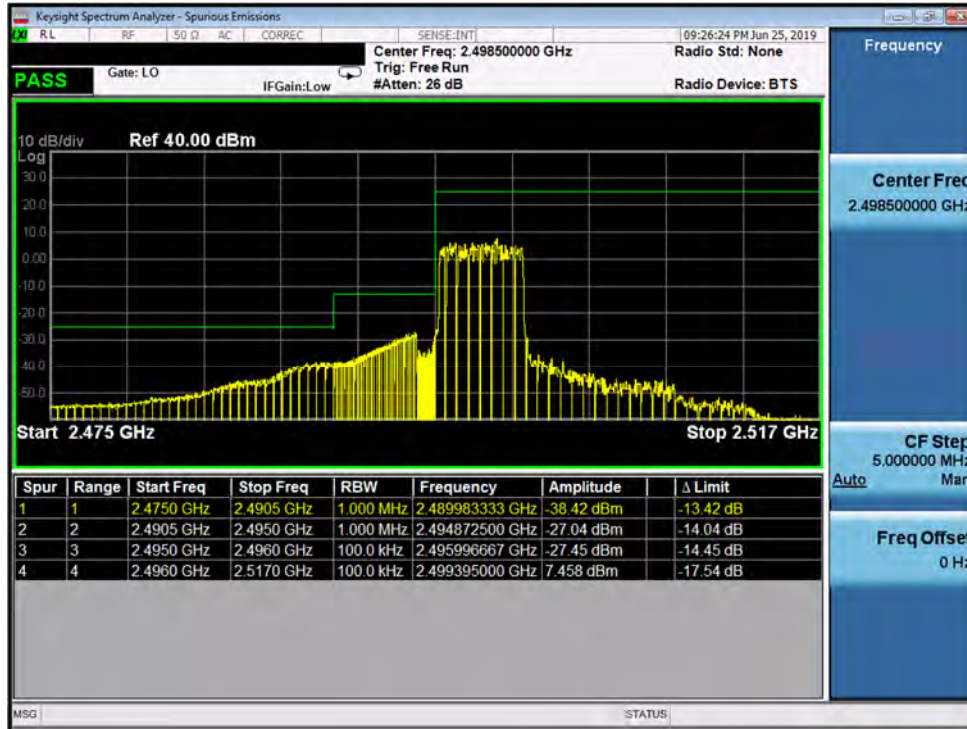
Plot 7-228. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



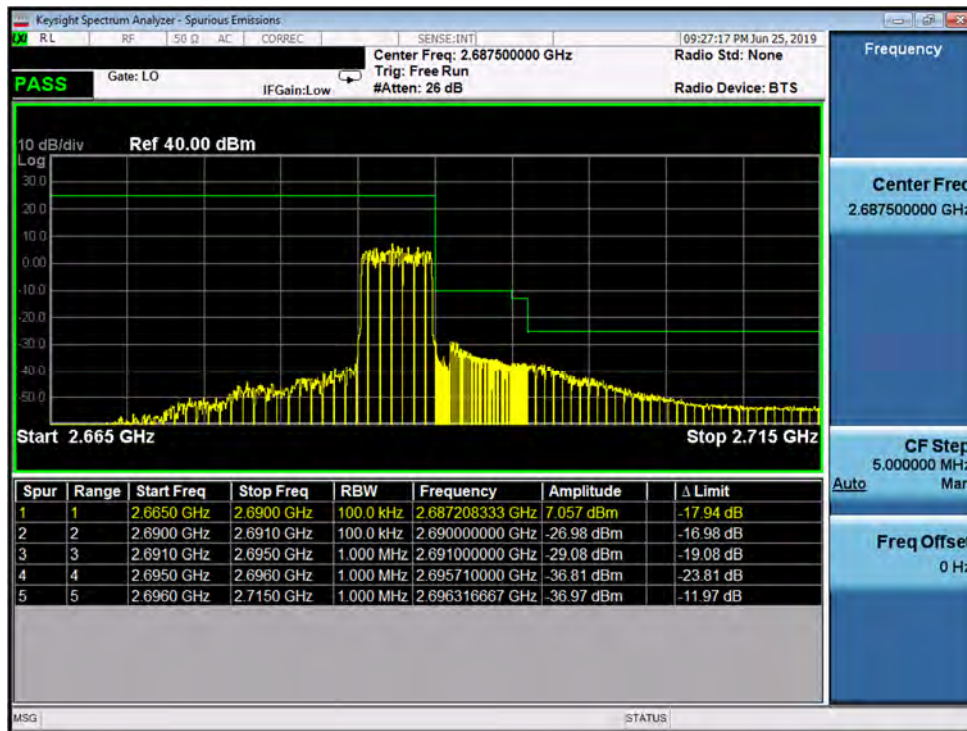
Plot 7-229. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 137 of 186

Band 41

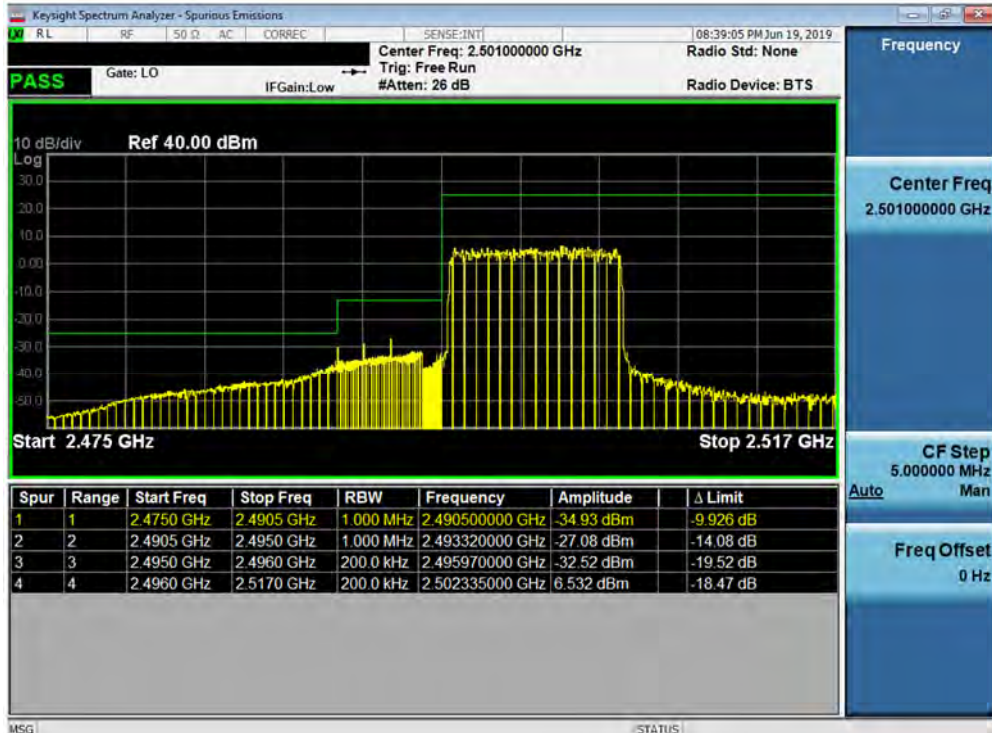


Plot 7-230. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

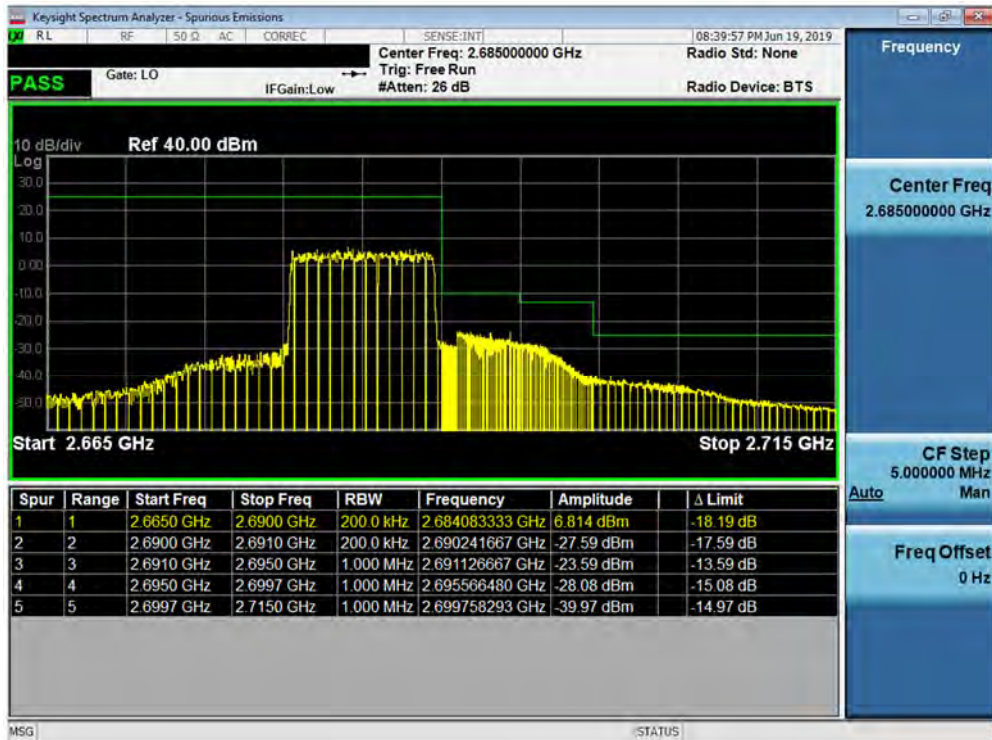


Plot 7-231. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 138 of 186



Plot 7-232. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

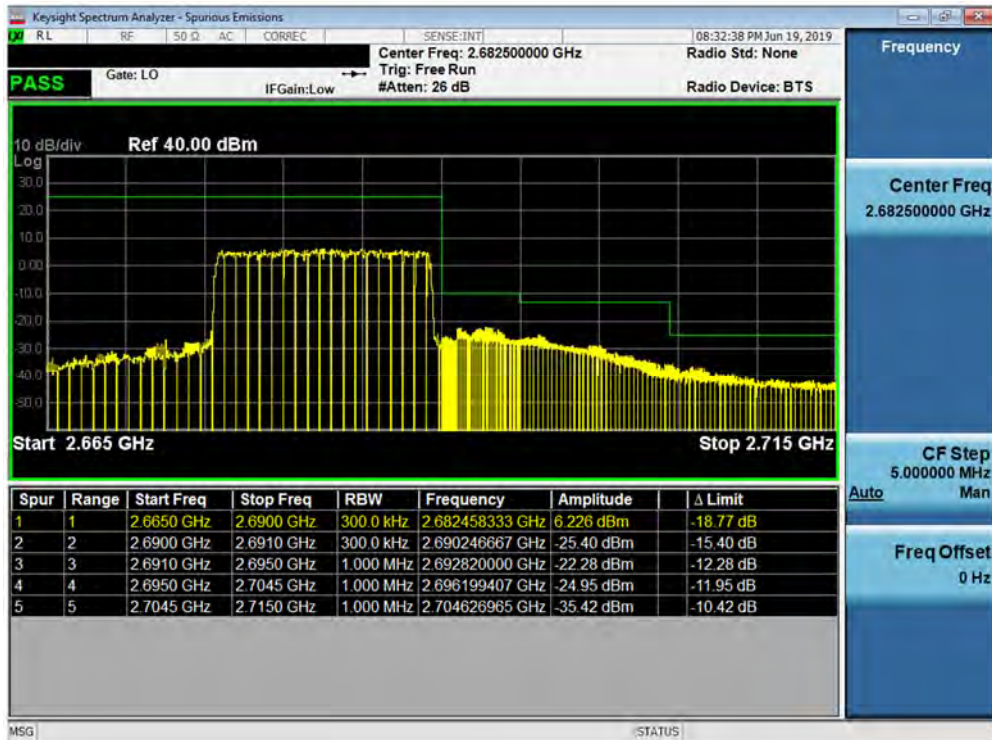


Plot 7-233. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 139 of 186

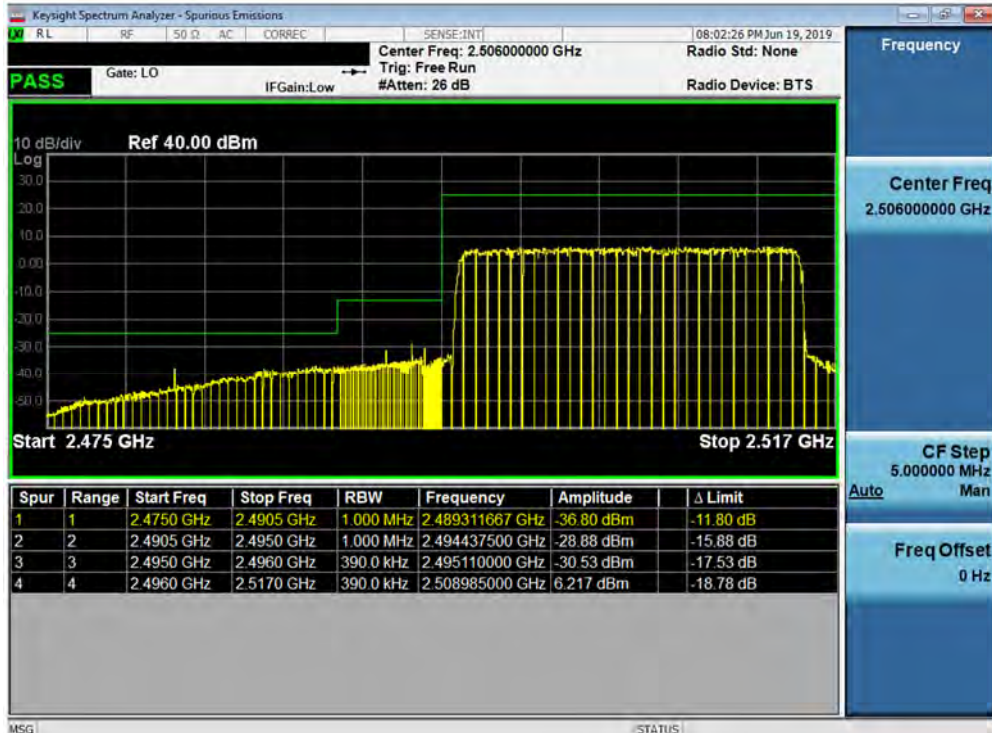


Plot 7-234. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

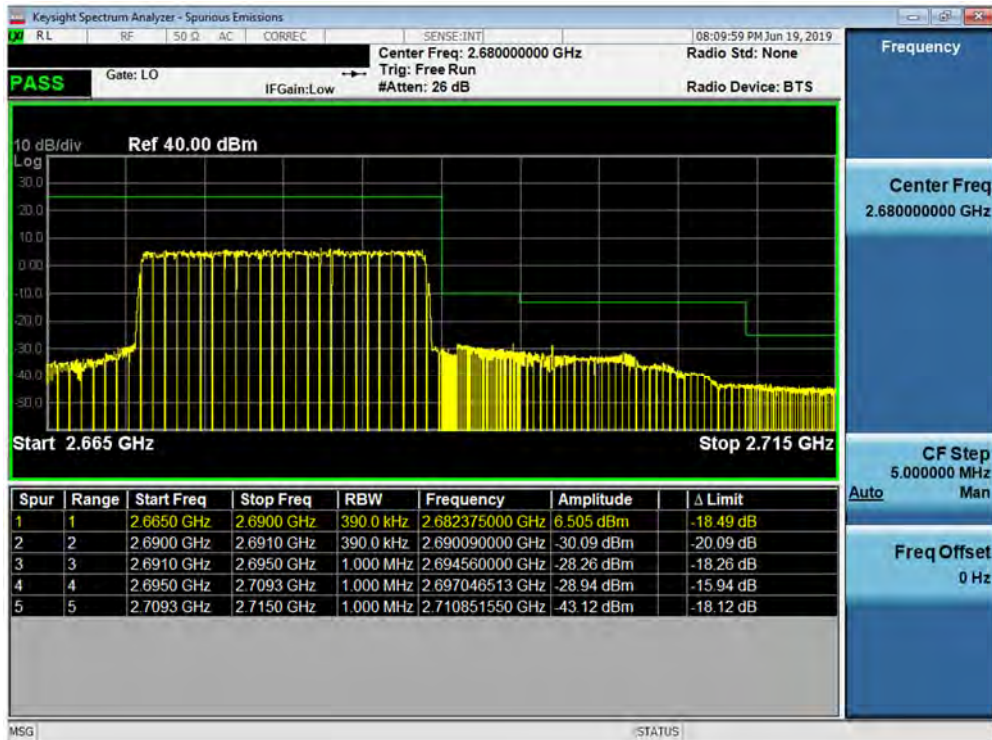


Plot 7-235. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 140 of 186



Plot 7-236. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-237. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 141 of 186

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

Test Setup

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



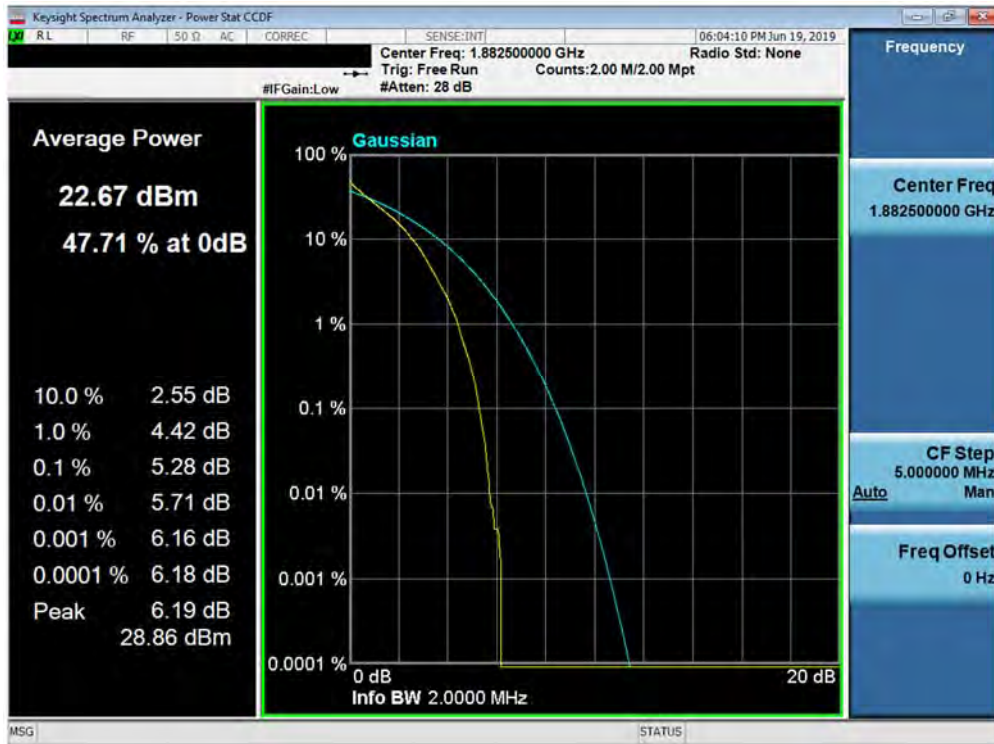
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

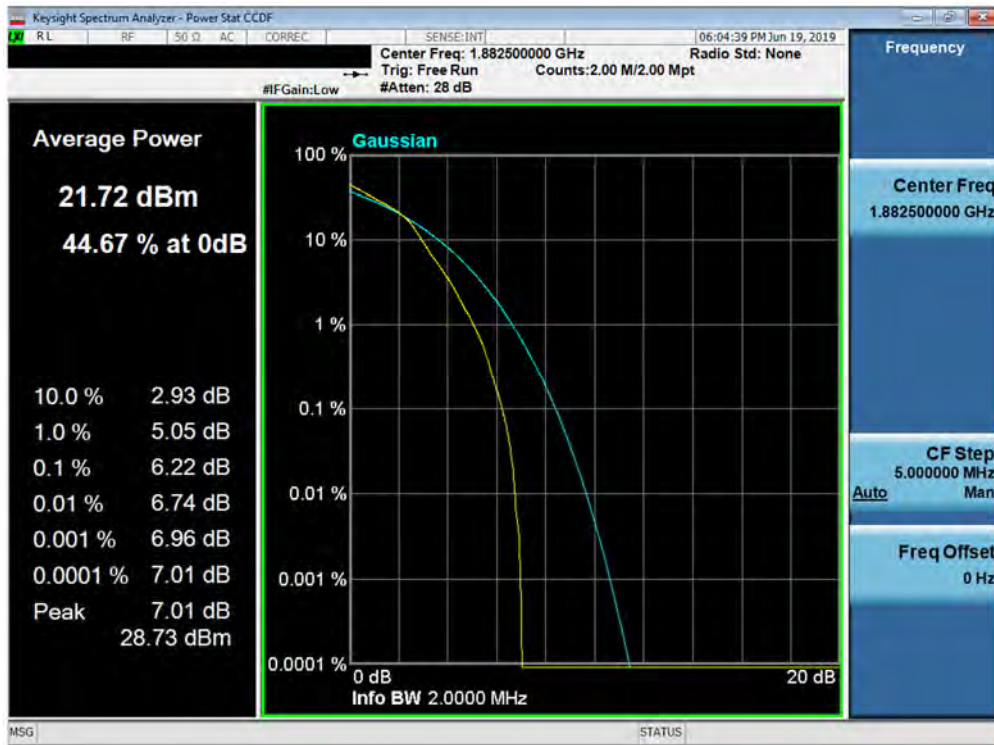
None.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 142 of 186

Band 25/2

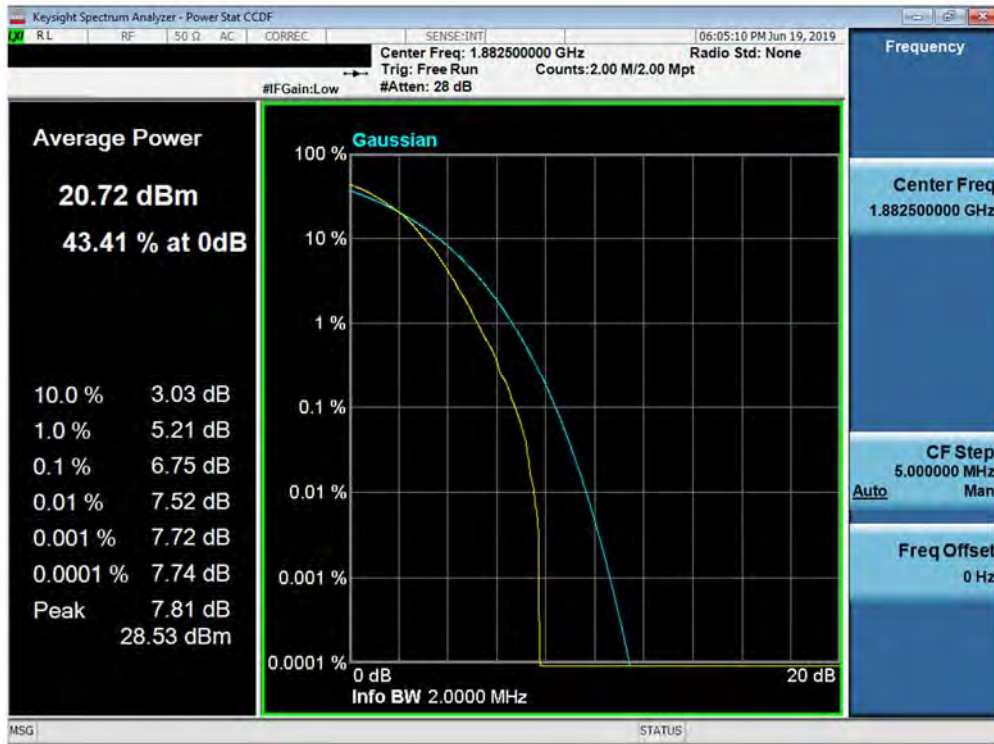


Plot 7-238. PAR Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

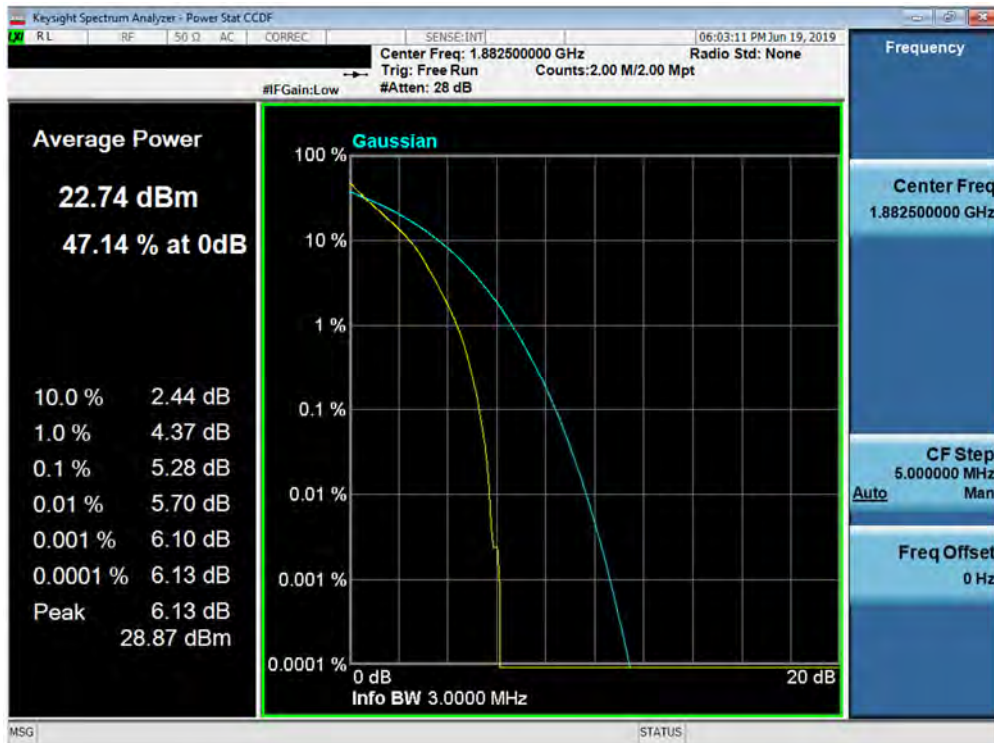


Plot 7-239. PAR Plot (Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 143 of 186

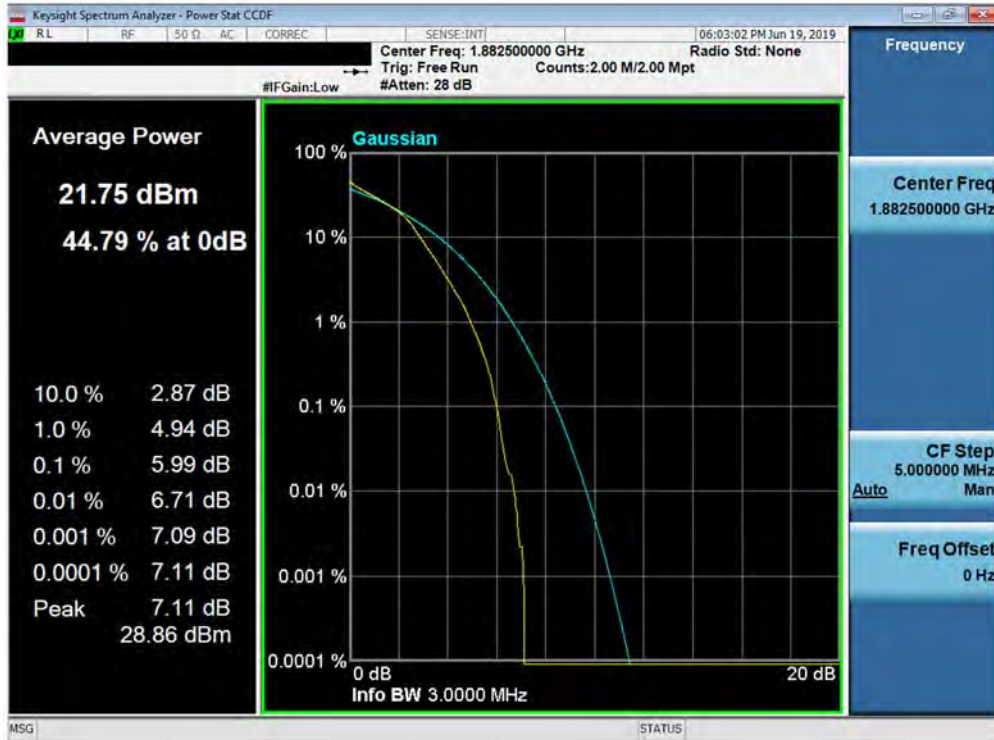


Plot 7-240. PAR Plot (Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

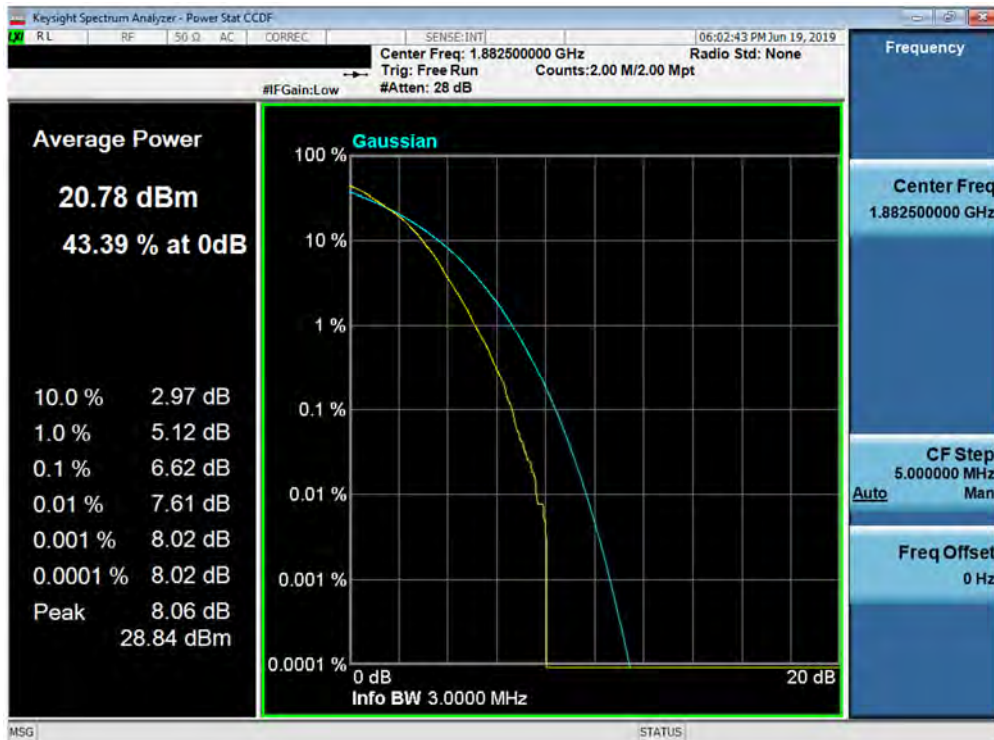


Plot 7-241. PAR Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 144 of 186

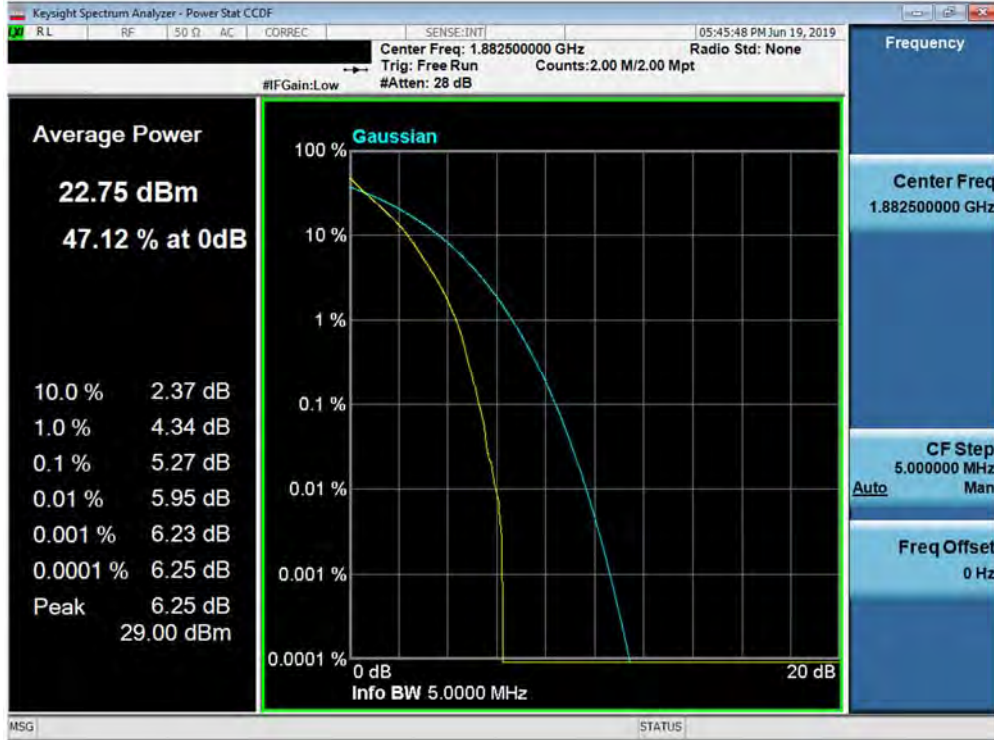


Plot 7-242. PAR Plot (Band 25/2 - 3.0MHz 16-QAM - Full RB Configuration)

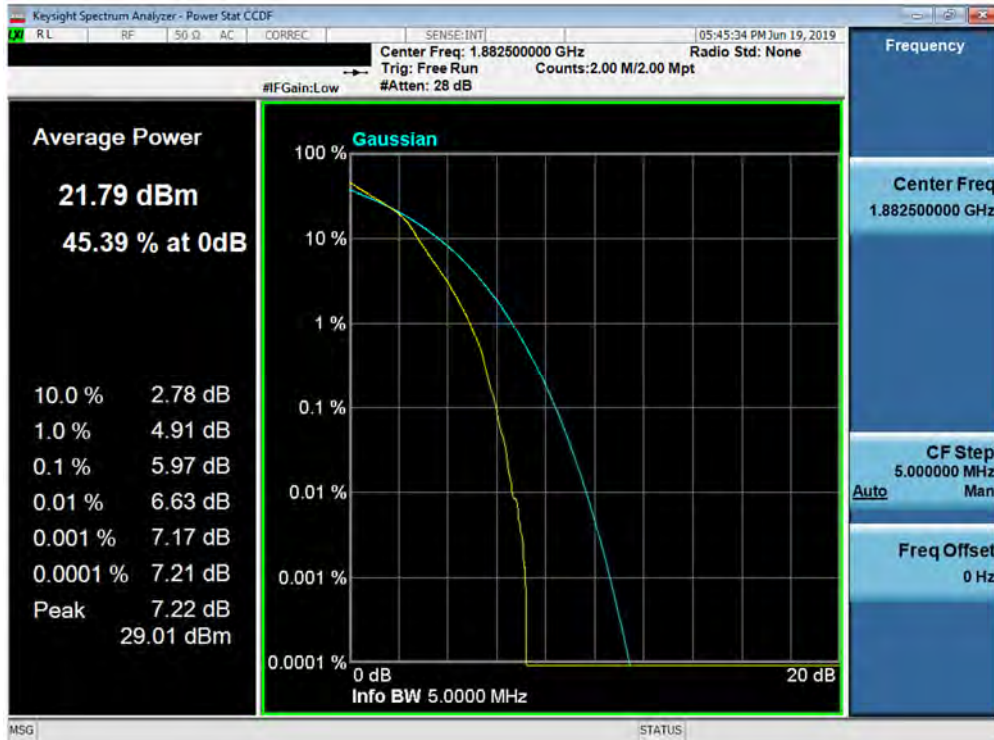


Plot 7-243. PAR Plot (Band 25/2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 145 of 186

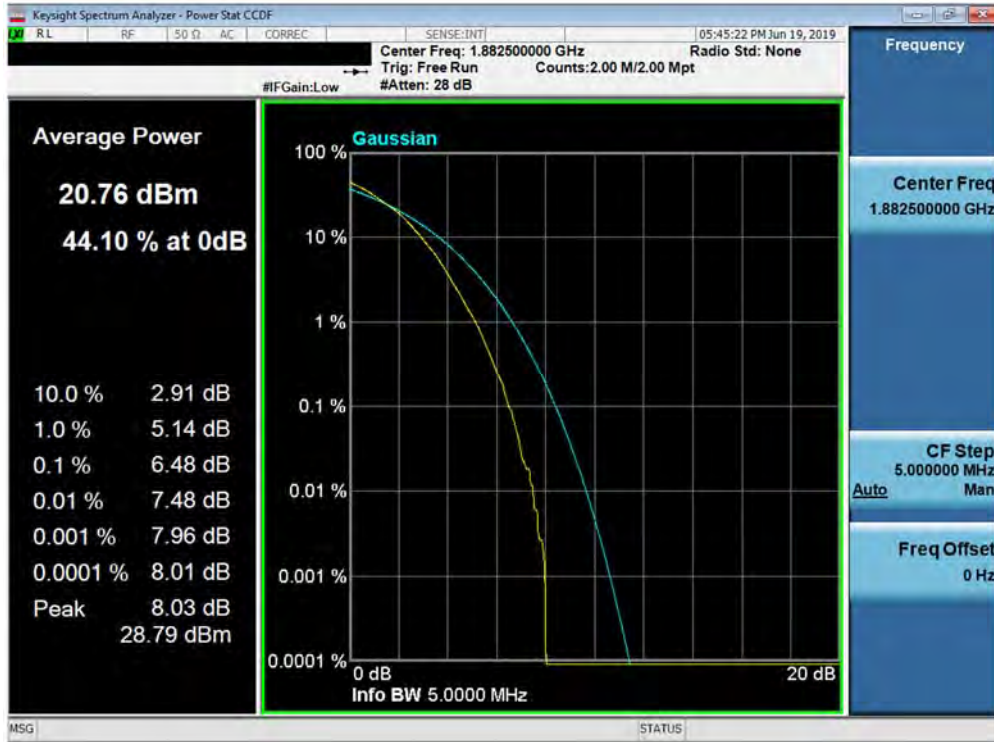


Plot 7-244. PAR Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

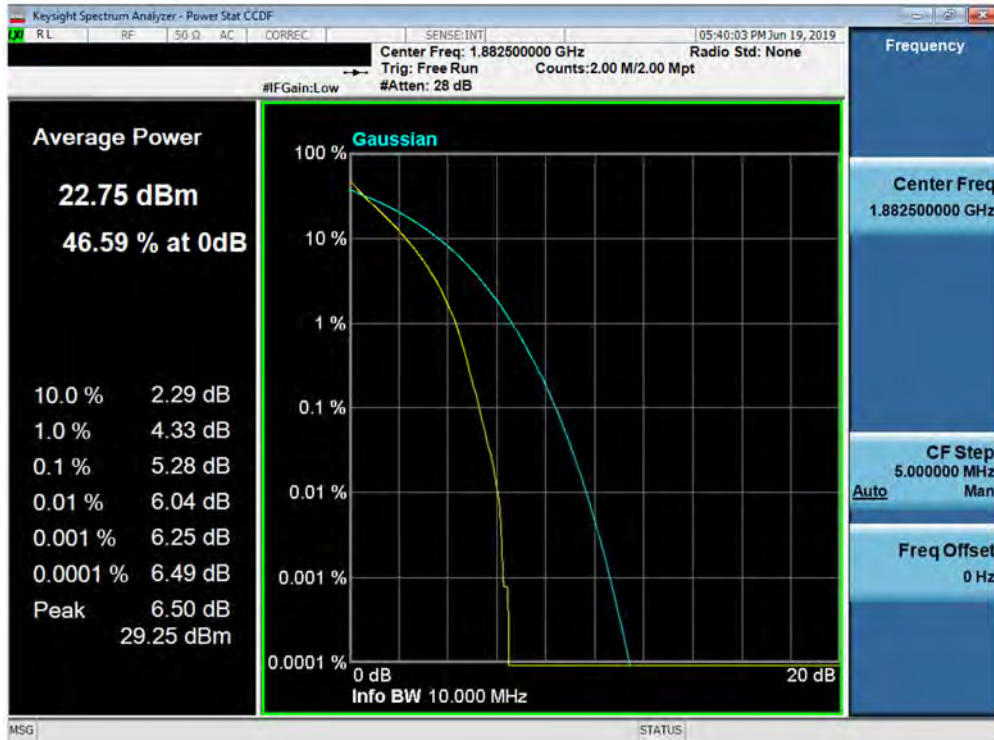


Plot 7-245. PAR Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 146 of 186

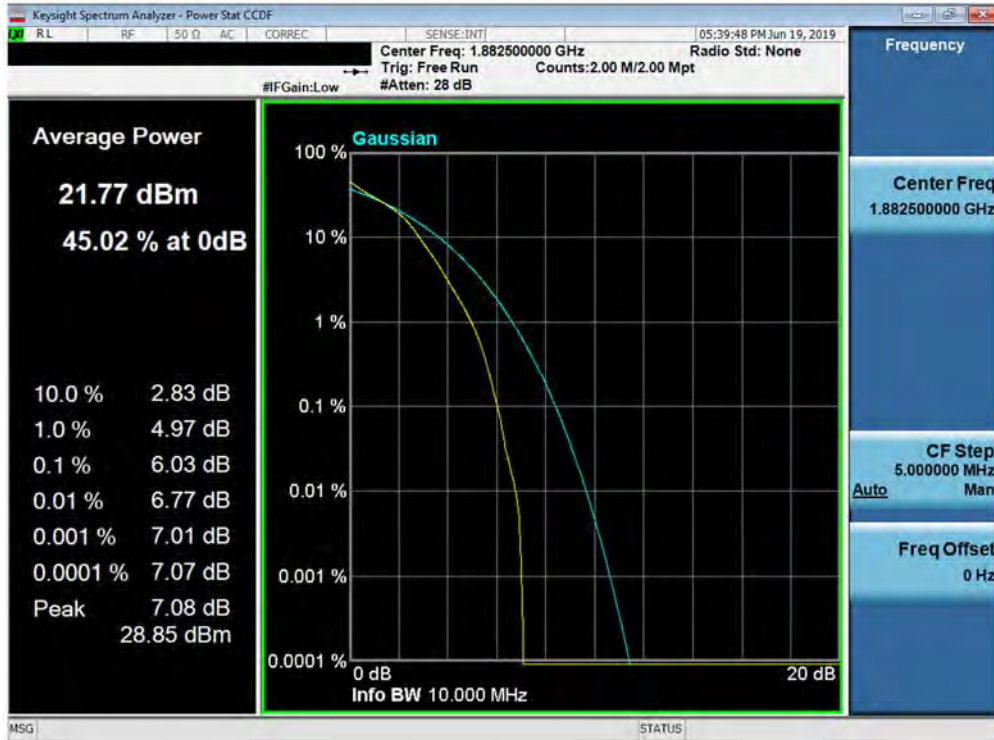


Plot 7-246. PAR Plot (Band 25/2 - 5.0MHz 64-QAM - Full RB Configuration)

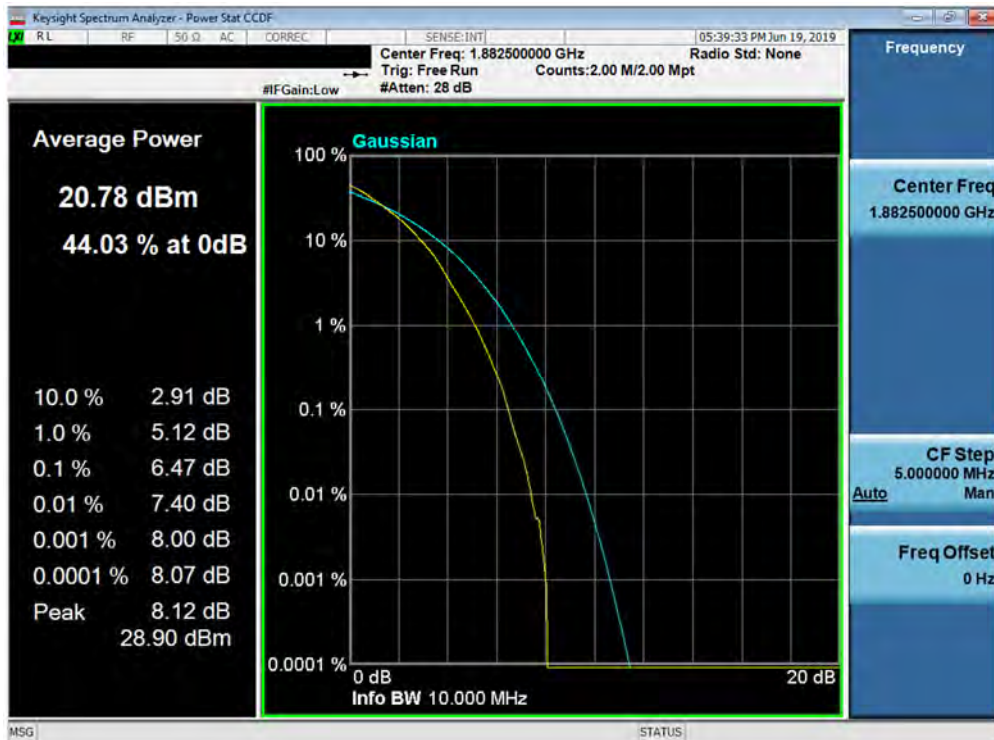


Plot 7-247. PAR Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 147 of 186

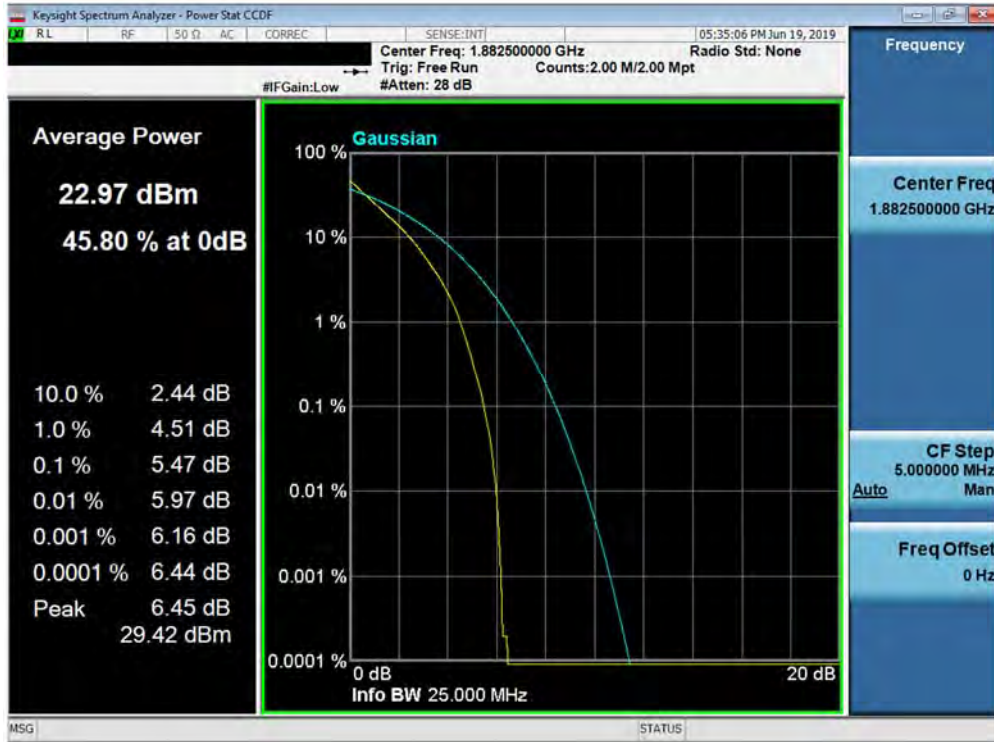


Plot 7-248. PAR Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)

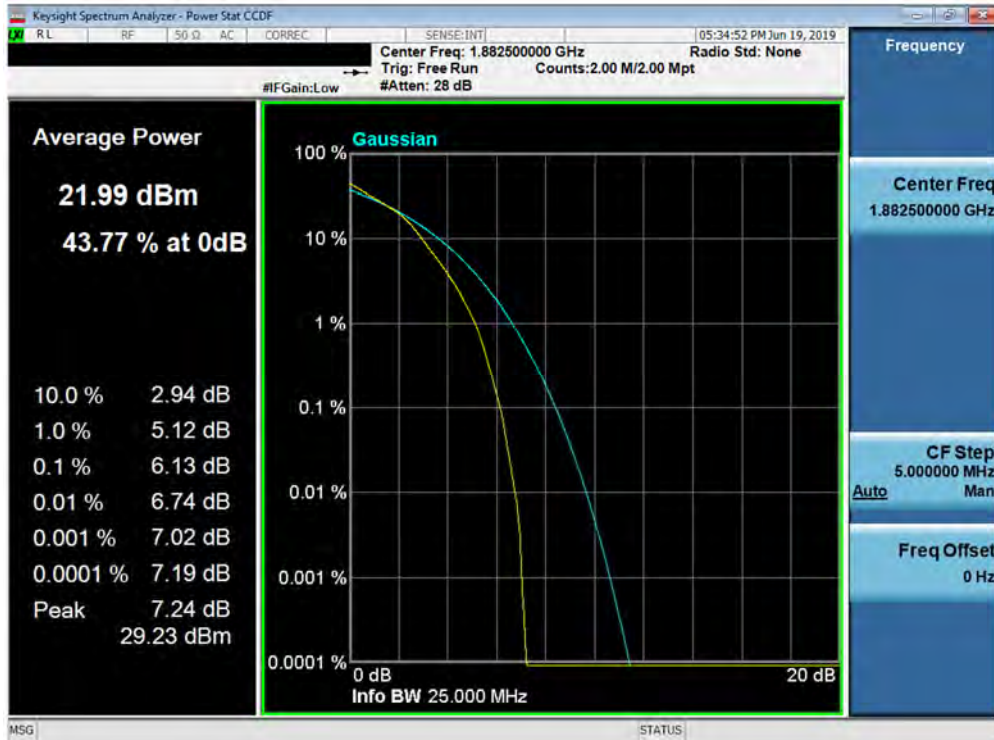


Plot 7-249. PAR Plot (Band 25/2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 148 of 186

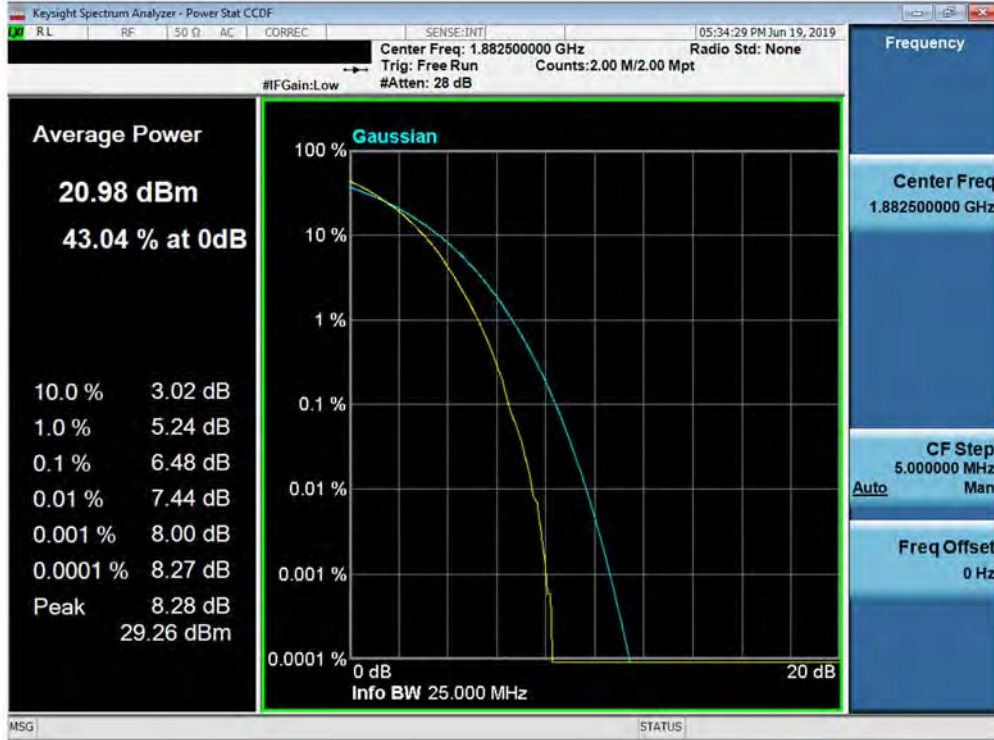


Plot 7-250. PAR Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

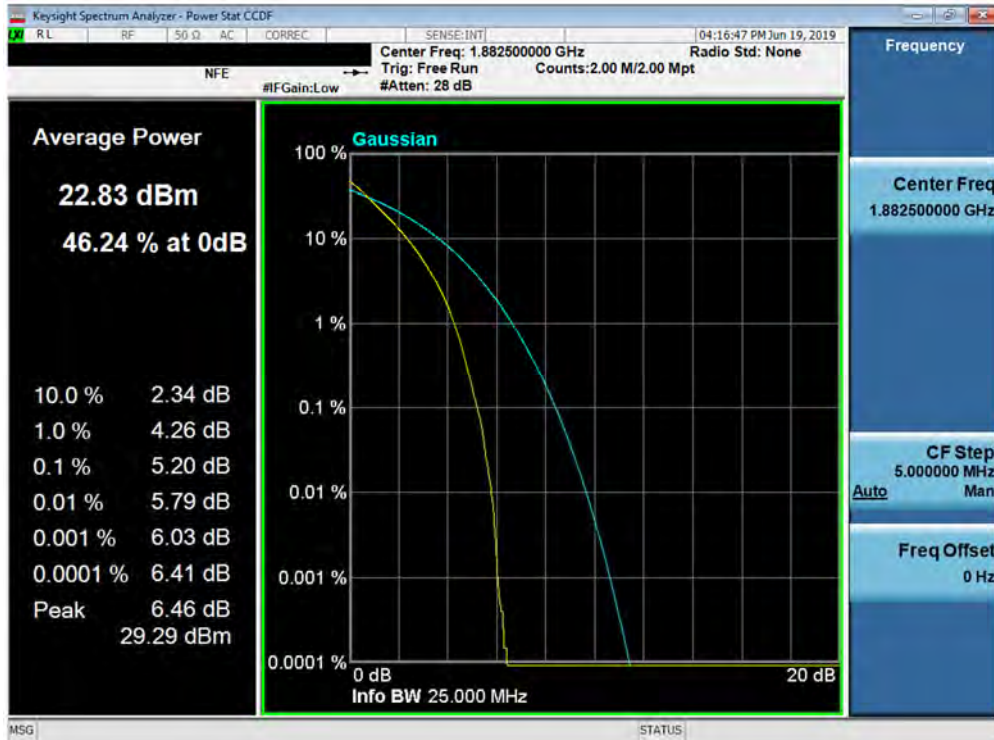


Plot 7-251. PAR Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 149 of 186

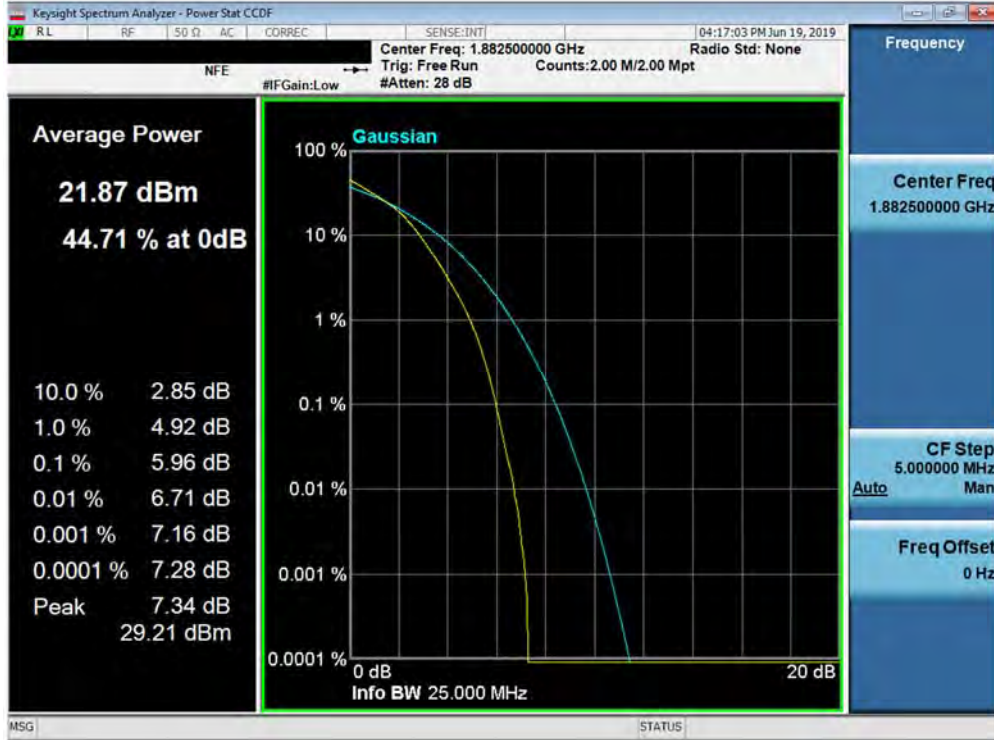


Plot 7-252. PAR Plot (Band 25/2 - 15.0MHz 64-QAM - Full RB Configuration)

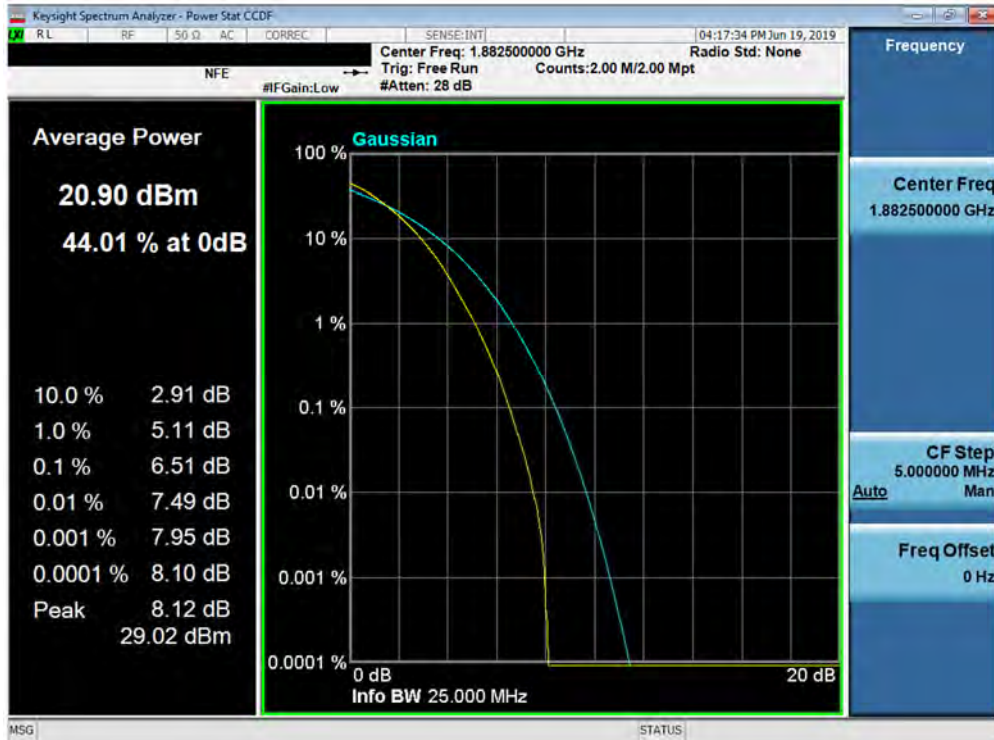


Plot 7-253. PAR Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-254. PAR Plot (Band 25/2 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-255. PAR Plot (Band 25/2 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 151 of 186

7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

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

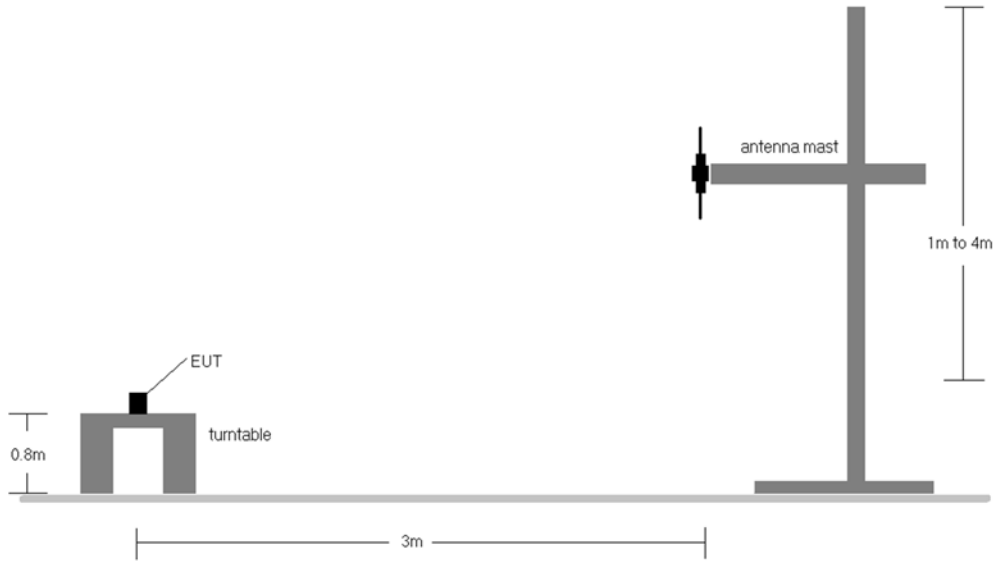


Figure 7-5. Radiated Test Setup <1GHz

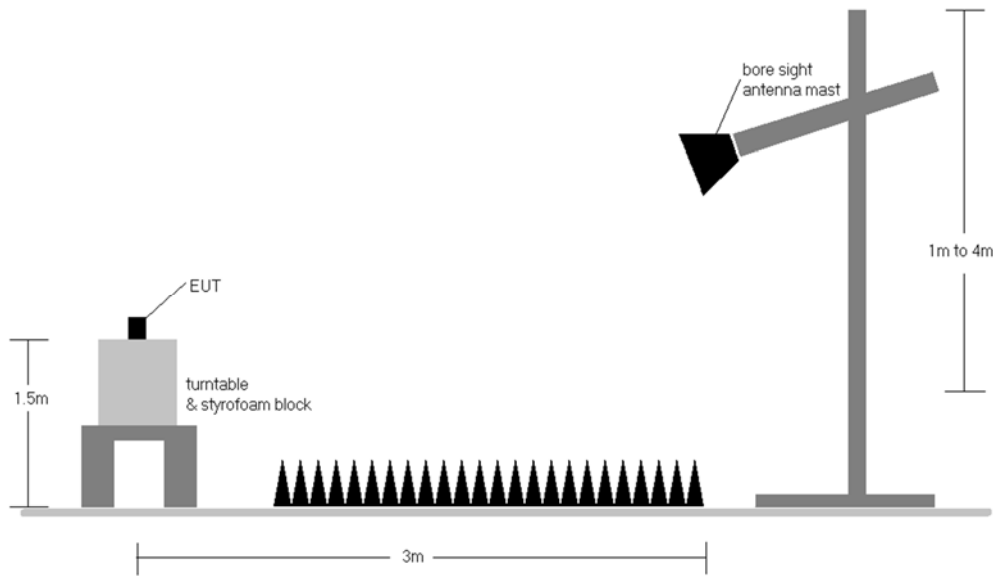


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	H	190	24	1 / 3	14.01	5.14	17.00	0.050	34.77	-17.77
707.50	1.4	QPSK	H	188	25	1 / 0	14.28	5.19	17.32	0.054	34.77	-17.45
715.30	1.4	QPSK	H	343	34	1 / 3	13.93	5.26	17.04	0.051	34.77	-17.73
707.50	1.4	16-QAM	H	188	25	1 / 0	13.57	5.19	16.61	0.046	34.77	-18.16
707.50	1.4	64-QAM	H	188	25	1 / 0	12.66	5.19	15.70	0.037	34.77	-19.07
700.50	3	QPSK	H	190	24	1 / 7	14.02	5.14	17.01	0.050	34.77	-17.76
707.50	3	QPSK	H	188	25	1 / 0	14.33	5.19	17.37	0.055	34.77	-17.40
714.50	3	QPSK	H	343	34	1 / 7	13.85	5.25	16.95	0.050	34.77	-17.82
707.50	3	16-QAM	H	188	25	1 / 0	13.54	5.19	16.58	0.045	34.77	-18.19
707.50	3	64-QAM	H	188	25	1 / 0	12.78	5.19	15.82	0.038	34.77	-18.95
701.50	5	QPSK	H	190	24	1 / 12	14.07	5.15	17.07	0.051	34.77	-17.70
707.50	5	QPSK	H	188	25	1 / 0	14.32	5.19	17.36	0.054	34.77	-17.41
713.50	5	QPSK	H	343	34	1 / 12	13.88	5.24	16.97	0.050	34.77	-17.80
707.50	5	16-QAM	H	188	25	1 / 0	13.63	5.19	16.67	0.046	34.77	-18.10
707.50	5	64-QAM	H	188	25	1 / 0	12.76	5.19	15.80	0.038	34.77	-18.97
704.00	10	QPSK	H	190	24	1 / 25	13.95	5.17	16.97	0.050	34.77	-17.80
707.50	10	QPSK	H	188	25	1 / 0	14.20	5.19	17.24	0.053	34.77	-17.53
711.00	10	QPSK	H	343	34	1 / 25	13.86	5.22	16.93	0.049	34.77	-17.84
707.50	10	16-QAM	H	188	25	1 / 0	13.41	5.19	16.45	0.044	34.77	-18.32
707.50	10	64-QAM	H	188	25	1 / 0	12.46	5.19	15.50	0.035	34.77	-19.27
707.50	3	QPSK	V	306	247	1 / 0	14.23	5.19	17.27	0.053	34.77	-17.50

Table 7-3. ERP Data (Band 12/17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	H	140	178	1 / 24	13.50	6.09	17.44	0.055	34.77	-17.33
782.00	5	QPSK	H	140	178	1 / 24	13.50	6.13	17.48	0.056	34.77	-17.29
784.50	5	QPSK	H	140	178	1 / 24	13.35	6.18	17.38	0.055	34.77	-17.39
782.00	5	16-QAM	H	140	178	1 / 24	12.87	6.13	16.85	0.048	34.77	-17.92
782.00	5	64-QAM	H	140	178	1 / 24	11.95	6.13	15.93	0.039	34.77	-18.84
782.00	10	QPSK	H	140	178	1 / 49	13.74	6.13	17.72	0.059	34.77	-17.05
782.00	10	16-QAM	H	140	178	1 / 49	13.03	6.13	17.01	0.050	34.77	-17.76
782.00	10	64-QAM	H	140	178	1 / 49	11.89	6.13	15.87	0.039	34.77	-18.90
782.00	10	QPSK	H	322	255	1 / 49	13.56	6.13	17.54	0.057	34.77	-17.23

Table 7-4. ERP Data (Band 13)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 154 of 186	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	H	188	180	1 / 5	11.03	6.89	15.77	0.038	38.45	-22.68
836.50	1.4	QPSK	H	127	179	1 / 5	12.60	7.08	17.53	0.057	38.45	-20.92
848.30	1.4	QPSK	H	201	177	1 / 5	12.17	7.28	17.30	0.054	38.45	-21.15
836.50	1.4	16-QAM	H	127	179	1 / 5	11.97	7.08	16.90	0.049	38.45	-21.55
836.50	1.4	64-QAM	H	127	179	1 / 5	11.34	7.08	16.27	0.042	38.45	-22.18
825.50	3	QPSK	H	188	180	1 / 14	11.02	6.90	15.77	0.038	38.45	-22.68
836.50	3	QPSK	H	127	179	1 / 14	12.86	7.08	17.79	0.060	38.45	-20.66
847.50	3	QPSK	H	201	177	1 / 14	12.25	7.26	17.36	0.054	38.45	-21.09
836.50	3	16-QAM	H	127	179	1 / 14	11.90	7.08	16.83	0.048	38.45	-21.62
836.50	3	64-QAM	H	127	179	1 / 14	11.30	7.08	16.23	0.042	38.45	-22.22
826.50	5	QPSK	H	188	180	1 / 24	11.04	6.92	15.81	0.038	38.45	-22.64
836.50	5	QPSK	H	127	179	1 / 24	12.52	7.08	17.45	0.056	38.45	-21.00
846.50	5	QPSK	H	201	177	1 / 24	12.26	7.25	17.36	0.054	38.45	-21.09
836.50	5	16-QAM	H	127	179	1 / 24	11.88	7.08	16.81	0.048	38.45	-21.64
836.50	5	64-QAM	H	127	179	1 / 24	11.29	7.08	16.22	0.042	38.45	-22.23
829.00	10	QPSK	H	188	180	1 / 49	11.02	6.96	15.83	0.038	38.45	-22.62
836.50	10	QPSK	H	127	179	1 / 49	12.57	7.08	17.50	0.056	38.45	-20.95
844.00	10	QPSK	H	201	177	1 / 49	12.29	7.21	17.35	0.054	38.45	-21.10
836.50	10	16-QAM	H	127	179	1 / 49	11.98	7.08	16.91	0.049	38.45	-21.54
836.50	10	64-QAM	H	127	179	1 / 49	11.30	7.08	16.23	0.042	38.45	-22.22
831.50	15	QPSK	H	188	180	1 / 74	11.05	7.00	15.90	0.039	38.45	-22.55
836.50	15	QPSK	H	127	179	1 / 74	12.47	7.08	17.40	0.055	38.45	-21.05
841.50	15	QPSK	H	201	177	1 / 74	12.18	7.17	17.20	0.052	38.45	-21.25
836.50	15	16-QAM	H	127	179	1 / 74	11.78	7.08	16.71	0.047	38.45	-21.74
836.50	15	64-QAM	H	127	179	1 / 74	11.10	7.08	16.03	0.040	38.45	-22.42
836.50	3	QPSK	V	329	224	1 / 14	12.62	7.08	17.55	0.057	38.45	-20.90

Table 7-5. ERP Data (Band 26/5)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 155 of 186	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	V	165	98	1 / 0	11.65	9.63	21.28	0.134	30.00	-8.72
1745.00	1.4	QPSK	V	118	100	1 / 0	11.44	9.54	20.98	0.125	30.00	-9.02
1779.30	1.4	QPSK	V	155	118	1 / 5	11.13	9.45	20.58	0.114	30.00	-9.42
1710.70	1.4	16-QAM	V	165	98	1 / 0	10.33	9.63	19.96	0.099	30.00	-10.04
1710.70	1.4	64-QAM	V	165	98	1 / 0	9.60	9.63	19.23	0.084	30.00	-10.77
1711.50	3	QPSK	V	165	98	1 / 0	11.71	9.62	21.33	0.136	30.00	-8.67
1745.00	3	QPSK	V	118	100	1 / 0	11.43	9.54	20.97	0.125	30.00	-9.03
1778.50	3	QPSK	V	155	118	1 / 14	11.14	9.45	20.60	0.115	30.00	-9.40
1711.50	3	16-QAM	V	165	98	1 / 0	10.49	9.62	20.11	0.103	30.00	-9.89
1711.50	3	64-QAM	V	165	98	1 / 0	9.72	9.62	19.34	0.086	30.00	-10.66
1712.50	5	QPSK	V	165	98	1 / 0	11.78	9.62	21.40	0.138	30.00	-8.60
1745.00	5	QPSK	V	118	100	1 / 0	11.51	9.54	21.05	0.127	30.00	-8.95
1777.50	5	QPSK	V	155	118	1 / 24	11.16	9.46	20.62	0.115	30.00	-9.38
1712.50	5	16-QAM	V	165	98	1 / 0	10.54	9.62	20.16	0.104	30.00	-9.84
1712.50	5	64-QAM	V	165	98	1 / 0	9.79	9.62	19.41	0.087	30.00	-10.59
1715.00	10	QPSK	V	165	98	1 / 0	11.79	9.61	21.40	0.138	30.00	-8.60
1745.00	10	QPSK	V	118	100	1 / 0	11.40	9.54	20.94	0.124	30.00	-9.06
1775.00	10	QPSK	V	155	118	1 / 49	11.09	9.47	20.56	0.114	30.00	-9.44
1715.00	10	16-QAM	V	165	98	1 / 0	10.54	9.61	20.15	0.104	30.00	-9.85
1715.00	10	64-QAM	V	165	98	1 / 0	9.75	9.61	19.36	0.086	30.00	-10.64
1717.50	15	QPSK	V	165	98	1 / 0	11.89	9.60	21.49	0.141	30.00	-8.51
1745.00	15	QPSK	V	118	100	1 / 0	11.57	9.54	21.11	0.129	30.00	-8.89
1772.50	15	QPSK	V	155	118	1 / 74	11.35	9.48	20.83	0.121	30.00	-9.17
1717.50	15	16-QAM	V	165	98	1 / 0	10.71	9.60	20.31	0.107	30.00	-9.69
1717.50	15	64-QAM	V	165	98	1 / 0	9.92	9.60	19.52	0.090	30.00	-10.48
1720.00	20	QPSK	V	165	98	1 / 0	12.11	9.59	21.70	0.148	30.00	-8.30
1745.00	20	QPSK	V	118	100	1 / 0	11.85	9.54	21.39	0.138	30.00	-8.61
1770.00	20	QPSK	V	155	118	1 / 99	11.25	9.49	20.74	0.118	30.00	-9.26
1720.00	20	16-QAM	V	165	98	1 / 0	10.94	9.59	20.53	0.113	30.00	-9.47
1720.00	20	64-QAM	V	165	98	1 / 0	10.09	9.59	19.68	0.093	30.00	-10.32
1720.00	20	QPSK	H	212	228	1 / 0	10.04	9.59	19.63	0.092	30.00	-10.37

Table 7-6. EIRP Data (Band 66/4)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 156 of 186	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	V	142	93	1 / 5	11.21	9.07	20.28	0.107	33.01	-12.73
1882.50	1.4	QPSK	V	131	100	1 / 3	11.40	9.15	20.55	0.114	33.01	-12.46
1914.30	1.4	QPSK	V	101	100	1 / 0	10.75	9.27	20.02	0.101	33.01	-12.99
1882.50	1.4	16-QAM	V	131	100	1 / 3	9.01	9.15	18.16	0.066	33.01	-14.85
1882.50	1.4	64-QAM	V	131	100	1 / 3	8.20	9.15	17.35	0.054	33.01	-15.66
1851.50	3	QPSK	V	142	93	1 / 14	11.22	9.07	20.29	0.107	33.01	-12.72
1882.50	3	QPSK	V	131	100	1 / 7	11.35	9.15	20.50	0.112	33.01	-12.51
1913.50	3	QPSK	V	101	100	1 / 0	10.72	9.26	19.98	0.100	33.01	-13.03
1882.50	3	16-QAM	V	131	100	1 / 7	9.02	9.15	18.17	0.066	33.01	-14.84
1882.50	3	64-QAM	V	131	100	1 / 7	8.23	9.15	17.38	0.055	33.01	-15.63
1852.50	5	QPSK	V	142	93	1 / 24	11.17	9.07	20.24	0.106	33.01	-12.77
1882.50	5	QPSK	V	131	100	1 / 12	11.39	9.15	20.54	0.113	33.01	-12.47
1912.50	5	QPSK	V	101	100	1 / 0	10.77	9.26	20.02	0.101	33.01	-12.99
1882.50	5	16-QAM	V	131	100	1 / 12	9.02	9.15	18.17	0.066	33.01	-14.84
1882.50	5	64-QAM	V	131	100	1 / 12	8.24	9.15	17.39	0.055	33.01	-15.62
1855.00	10	QPSK	V	142	93	1 / 49	11.18	9.08	20.26	0.106	33.01	-12.75
1882.50	10	QPSK	V	131	100	1 / 25	11.39	9.15	20.54	0.113	33.01	-12.47
1910.00	10	QPSK	V	101	100	1 / 0	10.87	9.24	20.11	0.103	33.01	-12.90
1882.50	10	16-QAM	V	131	100	1 / 25	8.98	9.15	18.13	0.065	33.01	-14.88
1882.50	10	64-QAM	V	131	100	1 / 25	8.25	9.15	17.40	0.055	33.01	-15.61
1857.50	15	QPSK	V	142	93	1 / 74	11.23	9.08	20.31	0.107	33.01	-12.70
1882.50	15	QPSK	V	131	100	1 / 37	11.30	9.15	20.45	0.111	33.01	-12.56
1907.50	15	QPSK	V	101	100	1 / 0	10.86	9.22	20.08	0.102	33.01	-12.93
1882.50	15	16-QAM	V	131	100	1 / 37	9.41	9.15	18.56	0.072	33.01	-14.45
1882.50	15	64-QAM	V	131	100	1 / 37	8.54	9.15	17.69	0.059	33.01	-15.32
1860.00	20	QPSK	V	142	93	1 / 99	11.26	9.09	20.35	0.108	33.01	-12.66
1882.50	20	QPSK	V	131	100	1 / 50	11.35	9.15	20.50	0.112	33.01	-12.51
1905.00	20	QPSK	V	101	100	1 / 0	11.10	9.20	20.30	0.107	33.01	-12.71
1882.50	20	16-QAM	V	131	100	1 / 50	9.01	9.15	18.16	0.066	33.01	-14.85
1882.50	20	64-QAM	V	131	100	1 / 50	8.30	9.15	17.45	0.056	33.01	-15.56
1882.50	1.4	QPSK	H	205	244	1 / 99	9.13	9.15	18.28	0.067	33.01	-14.73

Table 7-7. EIRP Data (Band 25/2)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 157 of 186

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	H	100	41	1 / 12	14.35	8.35	22.69	0.186	33.01	-10.32
2593.00	5	QPSK	H	100	50	1 / 12	14.91	8.04	22.94	0.197	33.01	-10.07
2687.50	5	QPSK	H	100	51	1 / 24	14.95	7.94	22.88	0.194	33.01	-10.13
2593.00	5	16-QAM	H	100	50	1 / 12	14.36	8.04	22.39	0.174	33.01	-10.62
2593.00	5	64-QAM	H	100	50	1 / 12	13.48	8.04	21.51	0.142	33.01	-11.50
2501.00	10	QPSK	H	100	41	1 / 25	14.33	8.34	22.67	0.185	33.01	-10.34
2593.00	10	QPSK	H	100	50	1 / 25	14.80	8.04	22.83	0.192	33.01	-10.18
2685.00	10	QPSK	H	100	51	1 / 49	14.94	7.93	22.86	0.193	33.01	-10.15
2685.00	10	16-QAM	H	100	51	1 / 49	14.34	7.93	22.26	0.168	33.01	-10.75
2685.00	10	64-QAM	H	100	51	1 / 49	13.51	7.93	21.43	0.139	33.01	-11.58
2503.50	15	QPSK	H	100	41	1 / 37	14.36	8.34	22.69	0.186	33.01	-10.32
2593.00	15	QPSK	H	100	50	1 / 37	14.86	8.04	22.89	0.195	33.01	-10.12
2682.50	15	QPSK	H	100	51	1 / 74	15.10	7.92	23.01	0.200	33.01	-10.00
2682.50	15	16-QAM	H	100	51	1 / 74	14.45	7.92	22.36	0.172	33.01	-10.65
2682.50	15	64-QAM	H	100	51	1 / 74	13.64	7.92	21.55	0.143	33.01	-11.46
2506.00	20	QPSK	H	100	41	1 / 50	14.19	8.33	22.52	0.179	33.01	-10.49
2593.00	20	QPSK	H	100	50	1 / 50	14.73	8.04	22.76	0.189	33.01	-10.25
2680.00	20	QPSK	H	100	51	1 / 99	14.97	7.91	22.88	0.194	33.01	-10.13
2593.00	20	16-QAM	H	100	50	1 / 50	13.96	8.04	21.99	0.158	33.01	-11.02
2593.00	20	64-QAM	H	100	50	1 / 50	13.03	8.04	21.06	0.128	33.01	-11.95
2682.50	15	QPSK	V	205	171	1 / 74	12.70	7.92	20.62	0.115	33.01	-12.39

Table 7-8. EIRP Data (Band 41)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 158 of 186	

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
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Test Setup

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

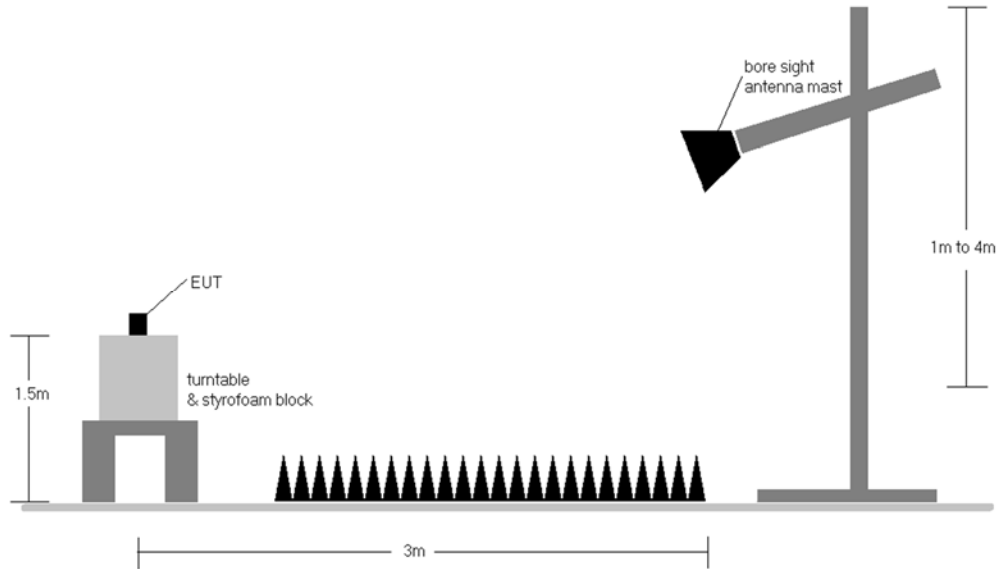


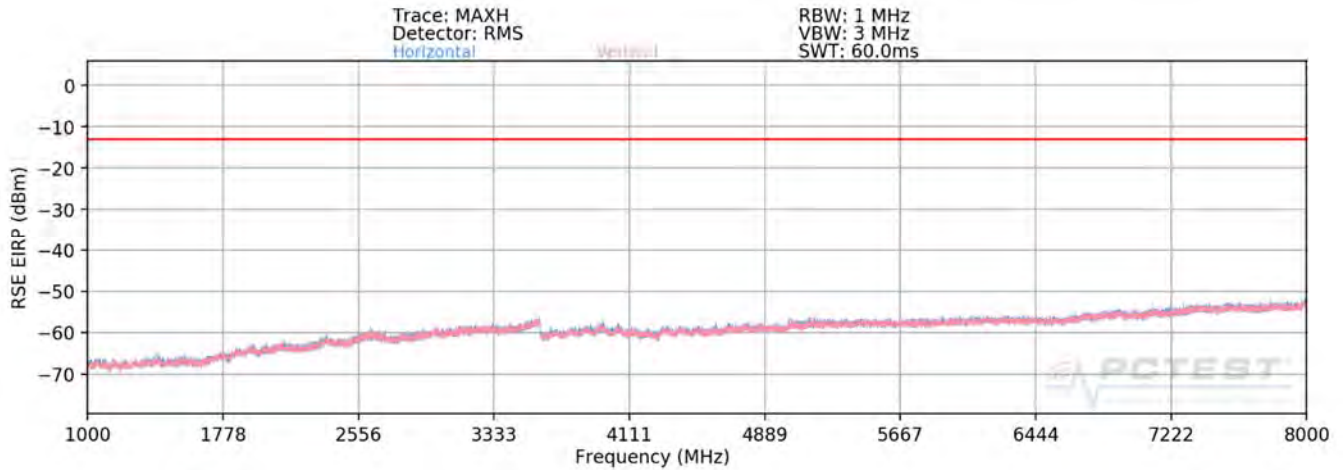
Figure 7-7. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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Band 12/17



Plot 7-256. Radiated Spurious Plot above 1GHz (Band 12/17)

OPERATING FREQUENCY: 704.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	V	155	340	-69.25	8.64	-60.62	-47.6
2112.00	V	316	147	-60.32	8.92	-51.41	-38.4
2816.00	V	-	-	-64.63	8.10	-56.53	-43.5

Table 7-9. Radiated Spurious Data (Band 12/17 – Low Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 161 of 186

OPERATING FREQUENCY: 707.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	V	141	333	-68.61	8.63	-59.98	-47.0
2122.50	V	327	155	-57.95	8.92	-49.02	-36.0
2830.00	V	-	-	-64.18	8.05	-56.14	-43.1

Table 7-10. Radiated Spurious Data (Band 12/17 – Mid Channel)

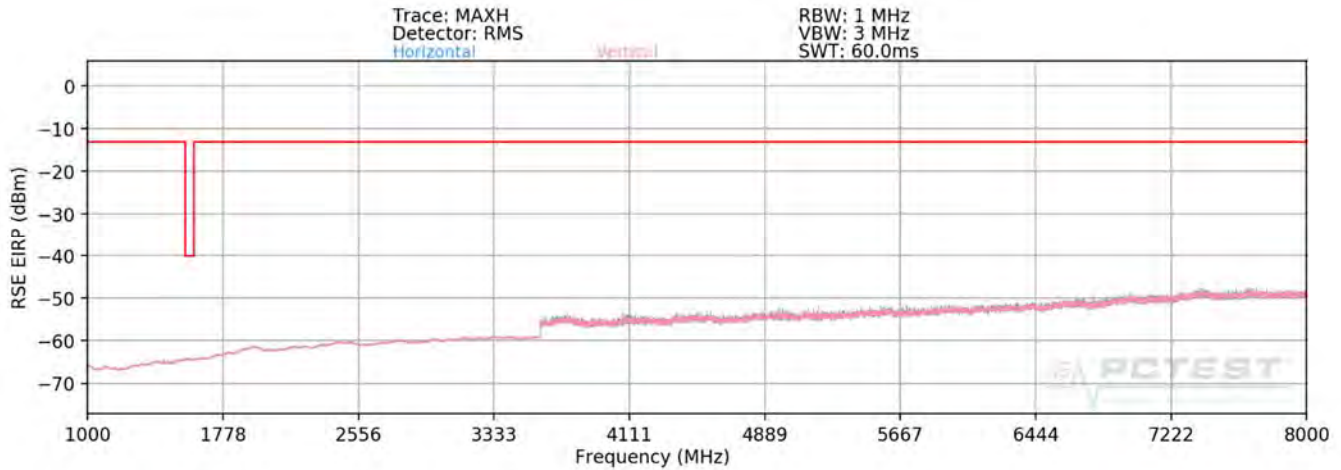
OPERATING FREQUENCY: 711.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	V	139	330	-69.22	8.62	-60.60	-47.6
2133.00	V	323	168	-59.03	8.93	-50.10	-37.1
2844.00	V	-	-	-63.03	7.99	-55.05	-42.0

Table 7-11. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 162 of 186

Band 13



Plot 7-257. Radiated Spurious Plot above 1GHz (Band 13)

OPERATING FREQUENCY: 782.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	V	261	156	-43.04	8.76	-34.28	-21.3
3128.00	V	-	-	-64.01	8.42	-55.59	-42.6

Table 7-12. Radiated Spurious Data (Band 13 – Mid Channel)

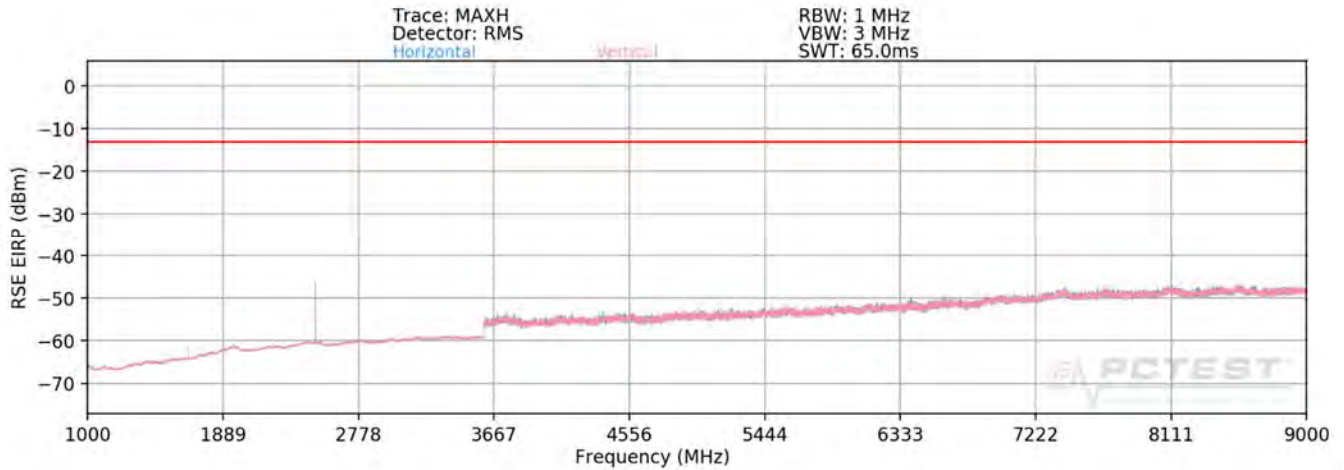
MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.00 MHz
 DISTANCE: 3 meters
 NARROWBAND EMISSION LIMIT: -50 dBm
 WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1564.00	H	258	208	-65.02	8.80	-56.22	-16.2

Table 7-13. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 163 of 186	

Band 26/5



Plot 7-258. Radiated Spurious Plot above 1GHz (Band 26/5)

OPERATING FREQUENCY: 825.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1651.00	V	207	359	-67.51	9.47	-58.04	-45.0
2476.50	V	100	153	-53.36	8.45	-44.91	-31.9
3302.00	V	-	-	-63.31	8.15	-55.16	-42.2

Table 7-14. Radiated Spurious Data (Band 26/5 – Low Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 164 of 186	

OPERATING FREQUENCY: 836.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	V	215	4	-67.14	9.56	-57.58	-44.6
2509.50	V	108	75	-55.75	8.33	-47.43	-34.4
3346.00	V	-	-	-63.69	8.59	-55.10	-42.1

Table 7-15. Radiated Spurious Data (Band 26/5 – Mid Channel)

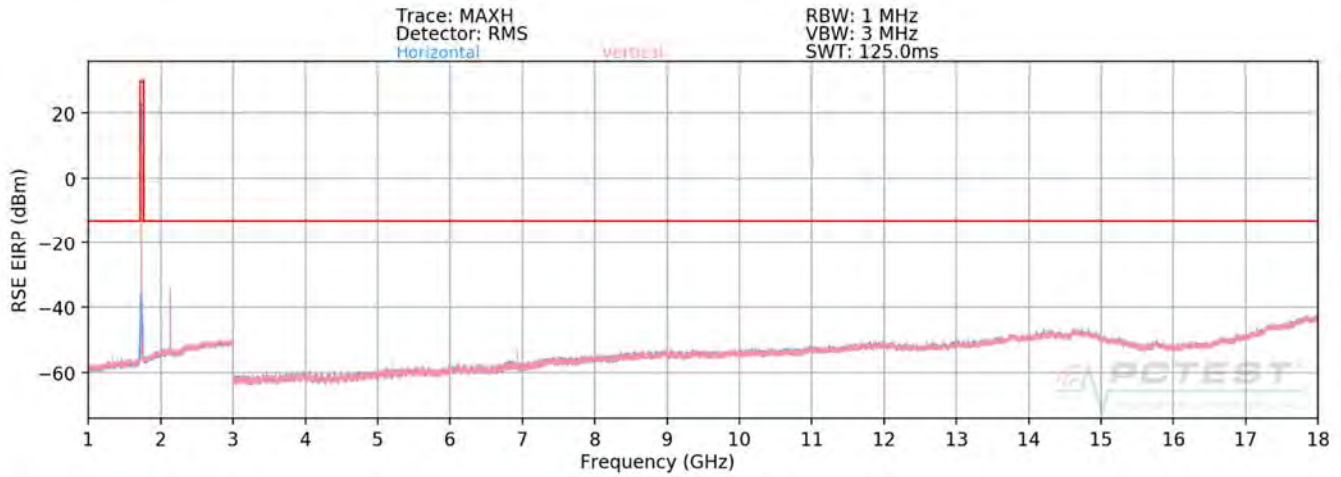
OPERATING FREQUENCY: 847.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1695.00	V	218	2	-68.57	9.65	-58.92	-45.9
2542.50	V	157	155	-57.72	8.27	-49.45	-36.5
3390.00	V	-	-	-63.70	8.84	-54.86	-41.9

Table 7-16. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 165 of 186

Band 66/4



Plot 7-259. Radiated Spurious Plot above 1GHz (Band 66/4)

OPERATING FREQUENCY: 1720.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	122	317	-60.89	9.14	-51.74	-38.7
5160.00	H	-	-	-66.10	12.59	-53.51	-40.5
6880.00	H	-	-	-60.09	10.47	-49.62	-36.6

Table 7-17. Radiated Spurious Data (Band 66/4 – Low Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 166 of 186	

OPERATING FREQUENCY: 1745.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	138	59	-60.92	9.19	-51.73	-38.7
5235.00	H	394	341	-65.72	12.75	-52.97	-40.0
6980.00	H	-	-	-60.26	10.28	-49.98	-37.0

Table 7-18. Radiated Spurious Data (Band 66/4 – Mid Channel)

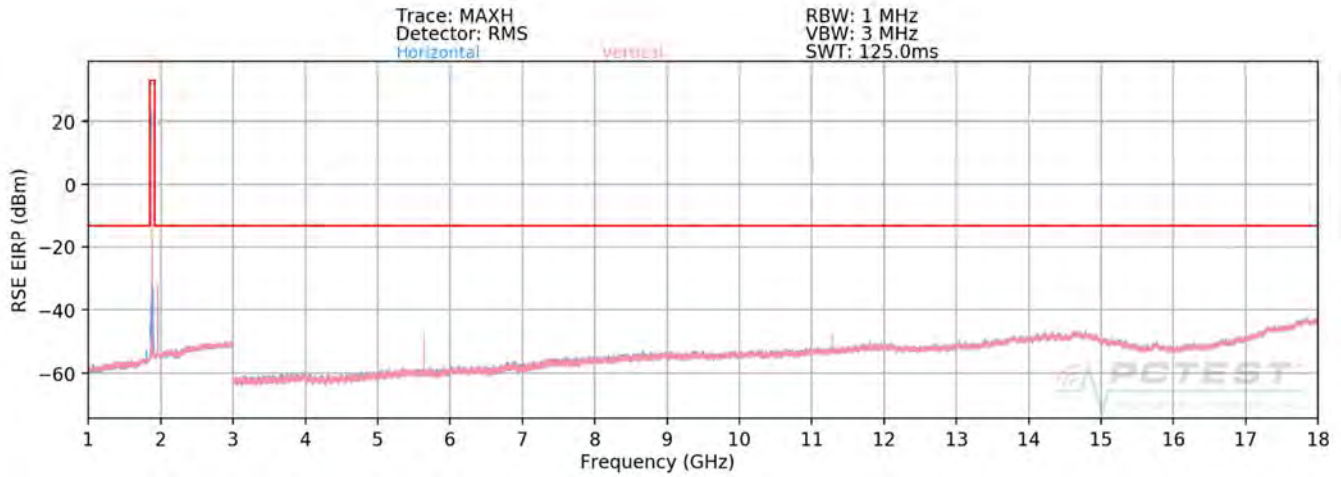
OPERATING FREQUENCY: 1770.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	100	310	-60.03	9.16	-50.86	-37.9
5310.00	H	135	180	-65.73	12.92	-52.80	-39.8
7080.00	H	-	-	-60.02	10.18	-49.84	-36.8

Table 7-19. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 167 of 186

Band 25/2



Plot 7-260. Radiated Spurious Plot above 1GHz (Band 25/2)

OPERATING FREQUENCY: 1860.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-63.21	8.87	-54.34	-41.3
5580.00	H	100	209	-60.26	13.05	-47.21	-34.2
7440.00	H	-	-	-58.15	10.47	-47.68	-34.7

Table 7-20. Radiated Spurious Data (Band 25/2 – Low Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 168 of 186	

OPERATING FREQUENCY: 1882.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-63.56	9.14	-54.42	-41.4
5647.50	H	105	199	-58.75	13.14	-45.62	-32.6
7530.00	H	-	-	-58.20	10.65	-47.55	-34.6

Table 7-21. Radiated Spurious Data (Band 25/2 – Mid Channel)

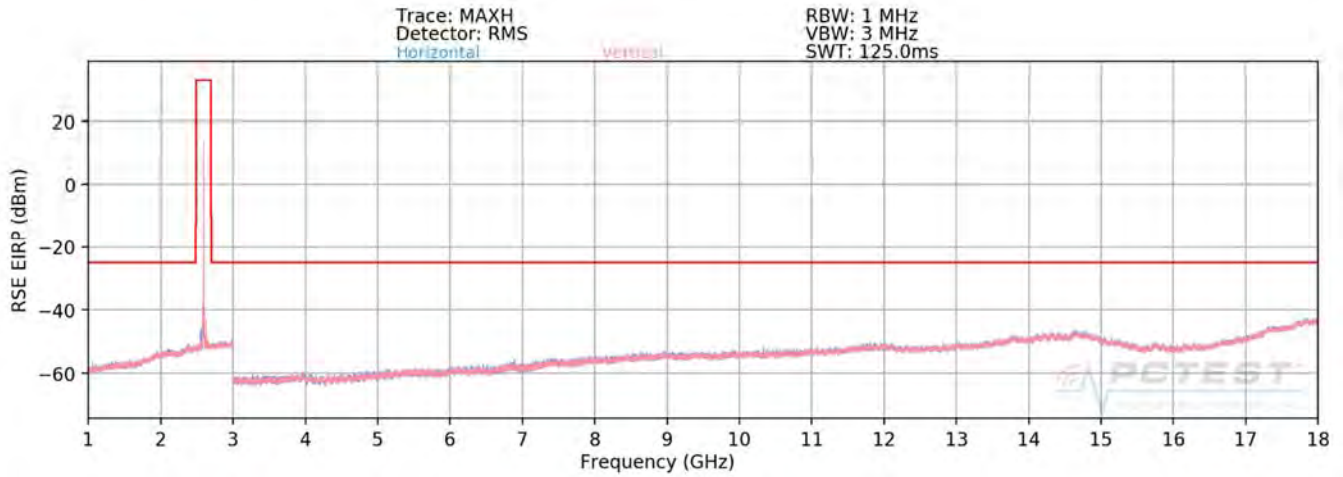
OPERATING FREQUENCY: 1905.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-63.66	9.27	-54.39	-41.4
5715.00	H	112	221	-60.32	13.13	-47.19	-34.2
7620.00	H	-	-	-57.96	10.74	-47.23	-34.2

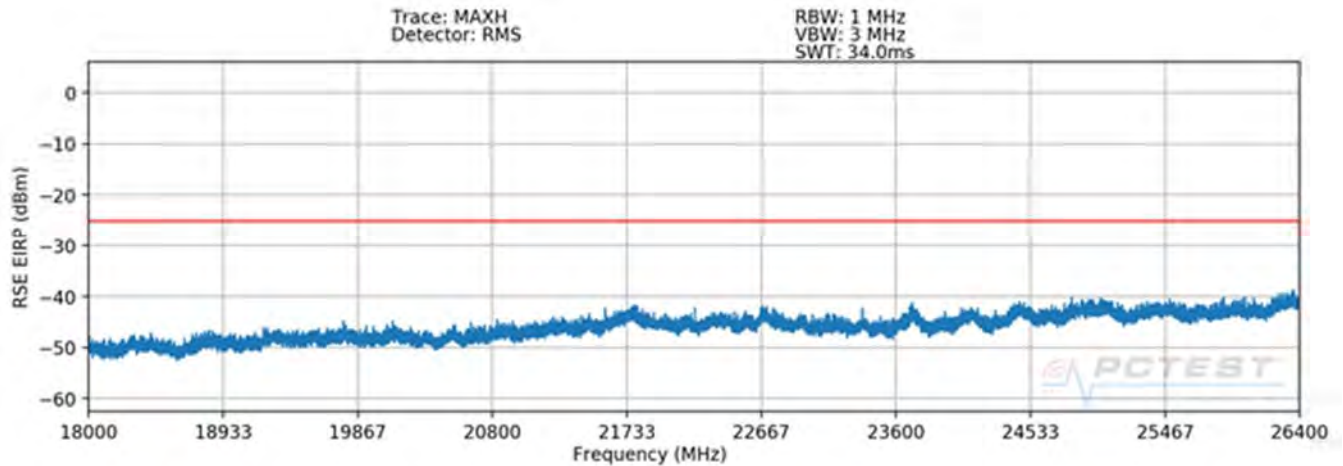
Table 7-22. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 169 of 186

Band 41



Plot 7-261. Radiated Spurious Plot 1GHz - 18GHz (Band 41)



Plot 7-262. Radiated Spurious Plot 18GHz - 26.5GHz (Band 41)

FCC ID: A3LSMT865	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 170 of 186	

OPERATING FREQUENCY: 2507.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5015.00	H	381	284	-72.48	11.89	-60.59	-35.6
7522.50	H	291	171	-65.28	10.66	-54.62	-29.6
10030.00	H	-	-	-65.96	12.02	-53.94	-28.9

Table 7-23. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY: 2593.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	100	4	-70.28	12.70	-57.58	-32.6
7779.00	H	100	357	-63.07	10.67	-52.40	-27.4
10372.00	H	-	-	-66.43	12.02	-54.41	-29.4

Table 7-24. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 171 of 186

OPERATING FREQUENCY: 2682.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5365.00	H	122	334	-72.70	13.08	-59.62	-34.6
8047.50	H	100	76	-67.48	11.70	-55.78	-30.8
10730.00	H	-	-	-64.43	12.02	-52.41	-27.4

Table 7-25. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 172 of 186

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
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Band 12/17 Frequency Stability Measurements

OPERATING FREQUENCY: 707,500,000 Hz
 CHANNEL: 23790
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	707,500,208	208	0.0000294
100 %		- 20	707,499,896	-104	-0.0000147
100 %		- 10	707,499,732	-268	-0.0000379
100 %		0	707,499,707	-293	-0.0000414
100 %		+ 10	707,500,170	170	0.0000240
100 %		+ 20	707,500,371	371	0.0000524
100 %		+ 30	707,499,752	-248	-0.0000351
100 %		+ 40	707,499,637	-363	-0.0000513
100 %		+ 50	707,500,216	216	0.0000305
BATT. ENDPOINT		3.16	+ 20	707,499,890	-110

Table 7-26. Frequency Stability Data (Band 12/17)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 174 of 186	

Band 12/17 Frequency Stability Measurements

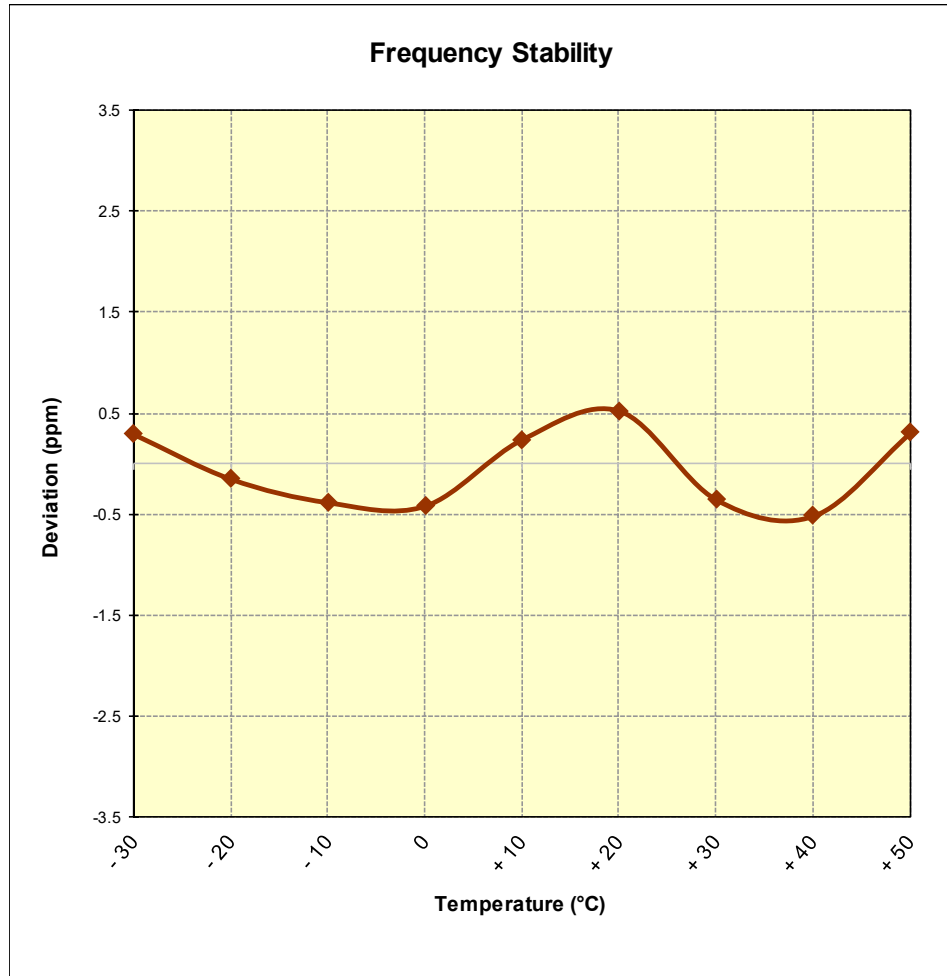


Figure 7-8. Frequency Stability Graph (Band 12/17)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 175 of 186

Band 13 Frequency Stability Measurements

OPERATING FREQUENCY: 782,000,000 Hz
 CHANNEL: 23230
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	782,000,225	225	0.0000288
100 %		- 20	782,000,063	63	0.0000081
100 %		- 10	782,000,079	79	0.0000101
100 %		0	781,999,915	-85	-0.0000109
100 %		+ 10	782,000,089	89	0.0000114
100 %		+ 20	782,000,070	70	0.0000090
100 %		+ 30	782,000,201	201	0.0000257
100 %		+ 40	781,999,819	-181	-0.0000231
100 %		+ 50	781,999,870	-130	-0.0000166
BATT. ENDPOINT		3.16	+ 20	782,000,242	242

Table 7-27. Frequency Stability Data (Band 13)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

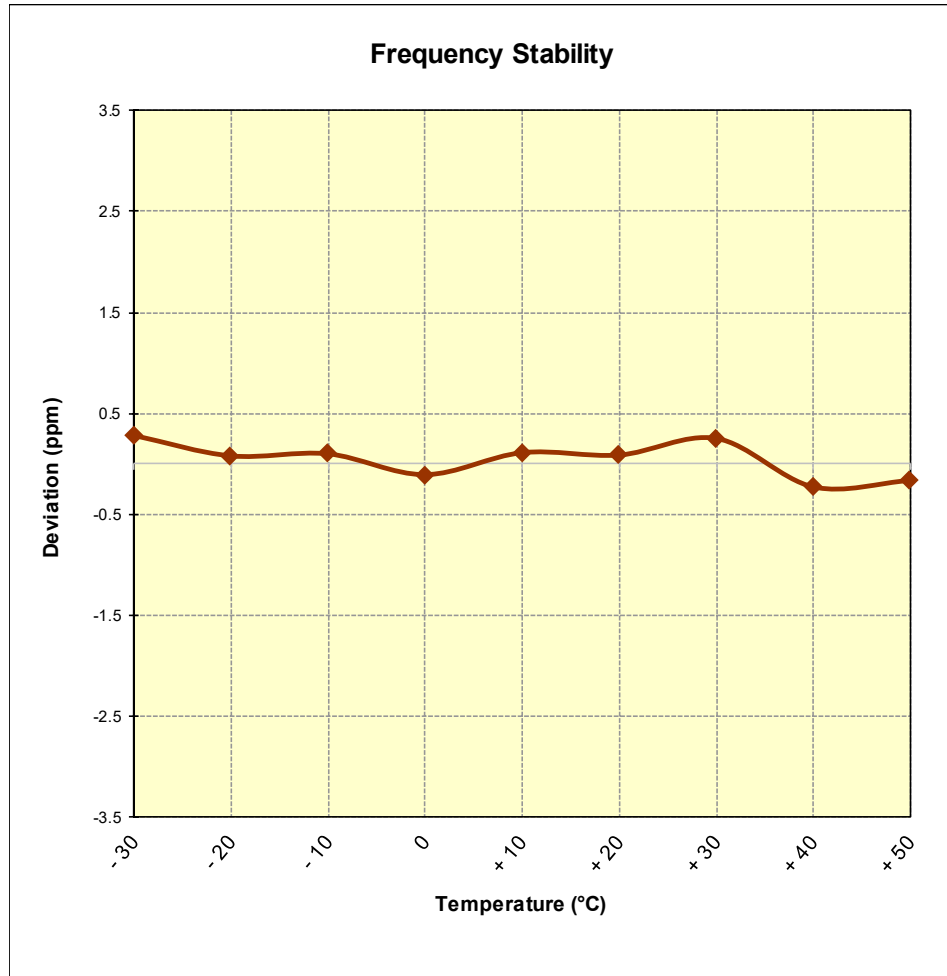


Figure 7-9. Frequency Stability Graph (Band 13)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 177 of 186

Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 831,500,000 Hz
 CHANNEL: 26865
 REFERENCE VOLTAGE: 3.85 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	831,500,356	356	0.0000428
100 %		- 20	831,500,114	114	0.0000137
100 %		- 10	831,500,107	107	0.0000129
100 %		0	831,500,193	193	0.0000232
100 %		+ 10	831,500,117	117	0.0000141
100 %		+ 20	831,500,254	254	0.0000305
100 %		+ 30	831,500,139	139	0.0000167
100 %		+ 40	831,499,823	-177	-0.0000213
100 %		+ 50	831,499,919	-81	-0.0000097
BATT. ENDPOINT		3.16	+ 20	831,499,830	-170

Table 7-28. Frequency Stability Data (Band 26/5)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

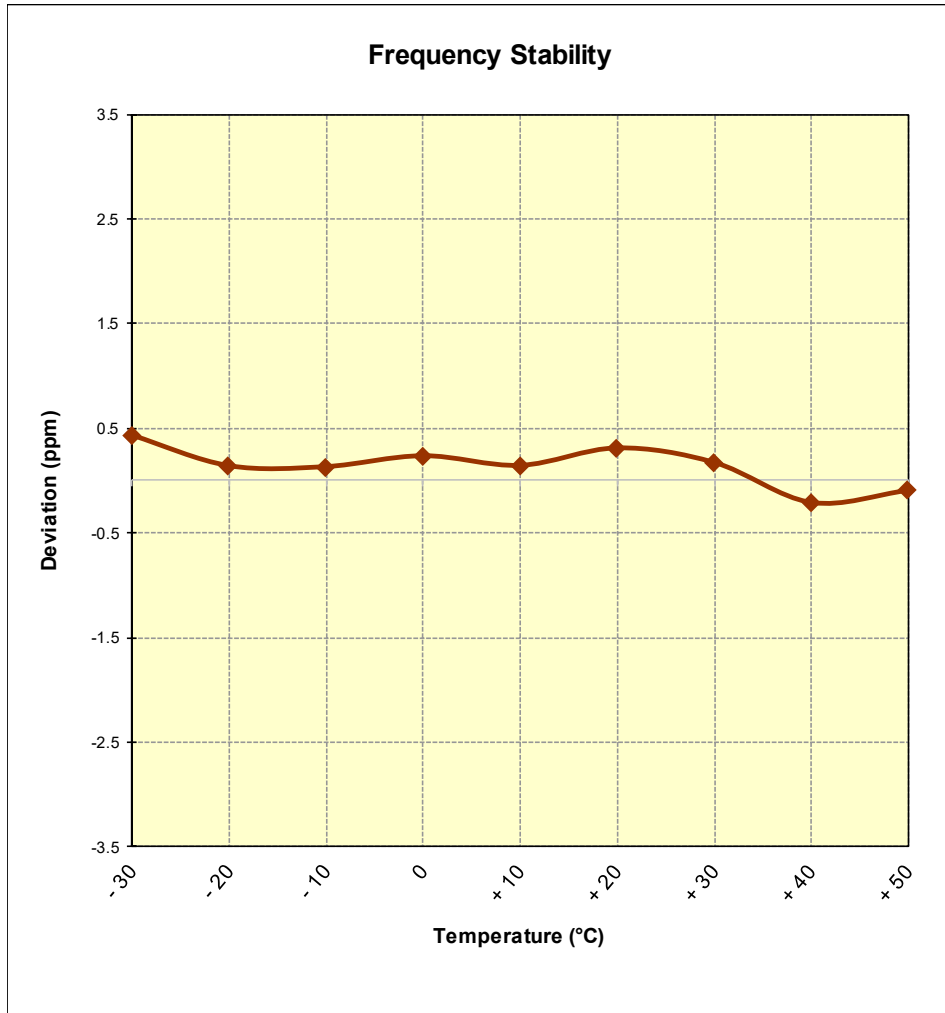


Figure 7-10. Frequency Stability Graph (Band 26/5)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 179 of 186

Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
 CHANNEL: 132322
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,745,000,323	323	0.0000185
100 %		- 20	1,745,000,060	60	0.0000034
100 %		- 10	1,744,999,957	-43	-0.0000025
100 %		0	1,744,999,851	-149	-0.0000085
100 %		+ 10	1,745,000,029	29	0.0000017
100 %		+ 20	1,744,999,999	-1	-0.0000001
100 %		+ 30	1,745,000,010	10	0.0000006
100 %		+ 40	1,744,999,803	-197	-0.0000113
100 %		+ 50	1,744,999,706	-294	-0.0000168
BATT. ENDPOINT		3.16	+ 20	1,745,000,021	21

Table 7-29. Frequency Stability Data (Band 66/4)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 180 of 186	

Band 66/4 Frequency Stability Measurements

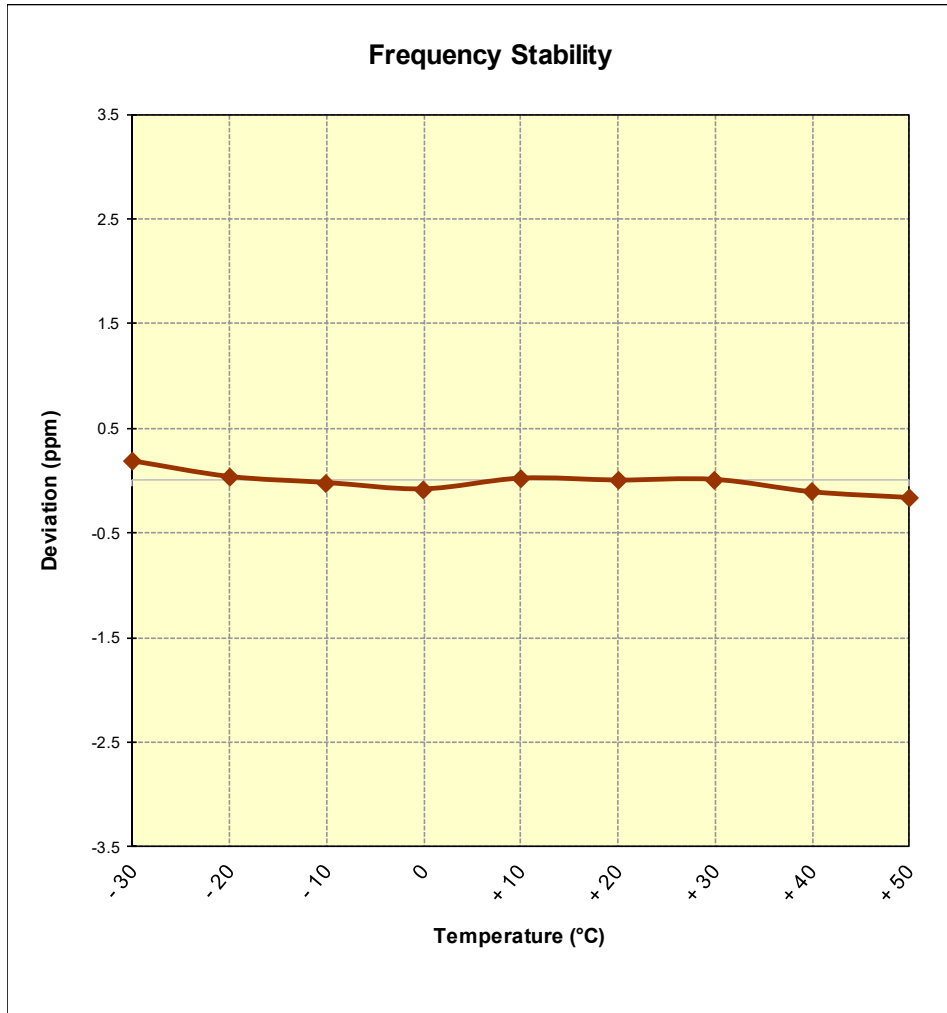


Figure 7-11. Frequency Stability Graph (Band 66/4)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz
 CHANNEL: 26365
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	1,882,499,627	-373	-0.0000198
100 %		- 20	1,882,499,714	-286	-0.0000152
100 %		- 10	1,882,500,002	2	0.0000001
100 %		0	1,882,500,341	341	0.0000181
100 %		+ 10	1,882,499,757	-243	-0.0000129
100 %		+ 20	1,882,500,248	248	0.0000132
100 %		+ 30	1,882,499,999	-1	-0.0000001
100 %		+ 40	1,882,499,957	-43	-0.0000023
100 %		+ 50	1,882,499,752	-248	-0.0000132
BATT. ENDPOINT		3.16	+ 20	1,882,500,186	186

Table 7-30. Frequency Stability Data (Band 25/2)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet	Page 182 of 186	

Band 25/2 Frequency Stability Measurements

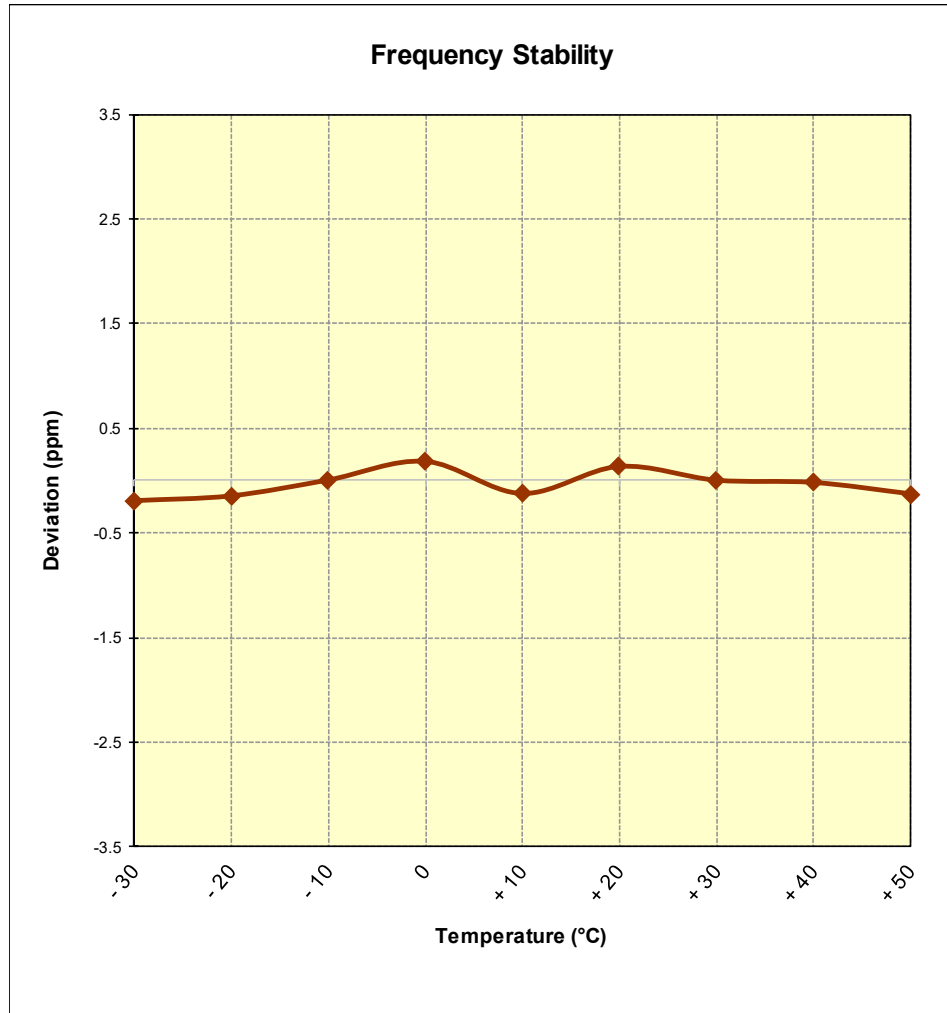


Figure 7-12. Frequency Stability Graph (Band 25/2)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1906070094-03.A3L	Test Dates: 6/7 - 7/22/2019	EUT Type: Portable Tablet		Page 183 of 186

Band 41 Frequency Stability Measurements

OPERATING FREQUENCY: 2,593,000,000 Hz
 CHANNEL: 40620
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	2,593,000,256	256	0.0000099
100 %		- 20	2,593,000,103	103	0.0000040
100 %		- 10	2,593,000,401	401	0.0000155
100 %		0	2,593,000,237	237	0.0000091
100 %		+ 10	2,593,000,098	98	0.0000038
100 %		+ 20	2,592,999,944	-56	-0.0000022
100 %		+ 30	2,592,999,803	-197	-0.0000076
100 %		+ 40	2,593,000,176	176	0.0000068
100 %		+ 50	2,592,999,959	-41	-0.0000016
BATT. ENDPOINT		3.16	+ 20	2,593,000,101	101

Table 7-31. Frequency Stability Data (Band 41)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

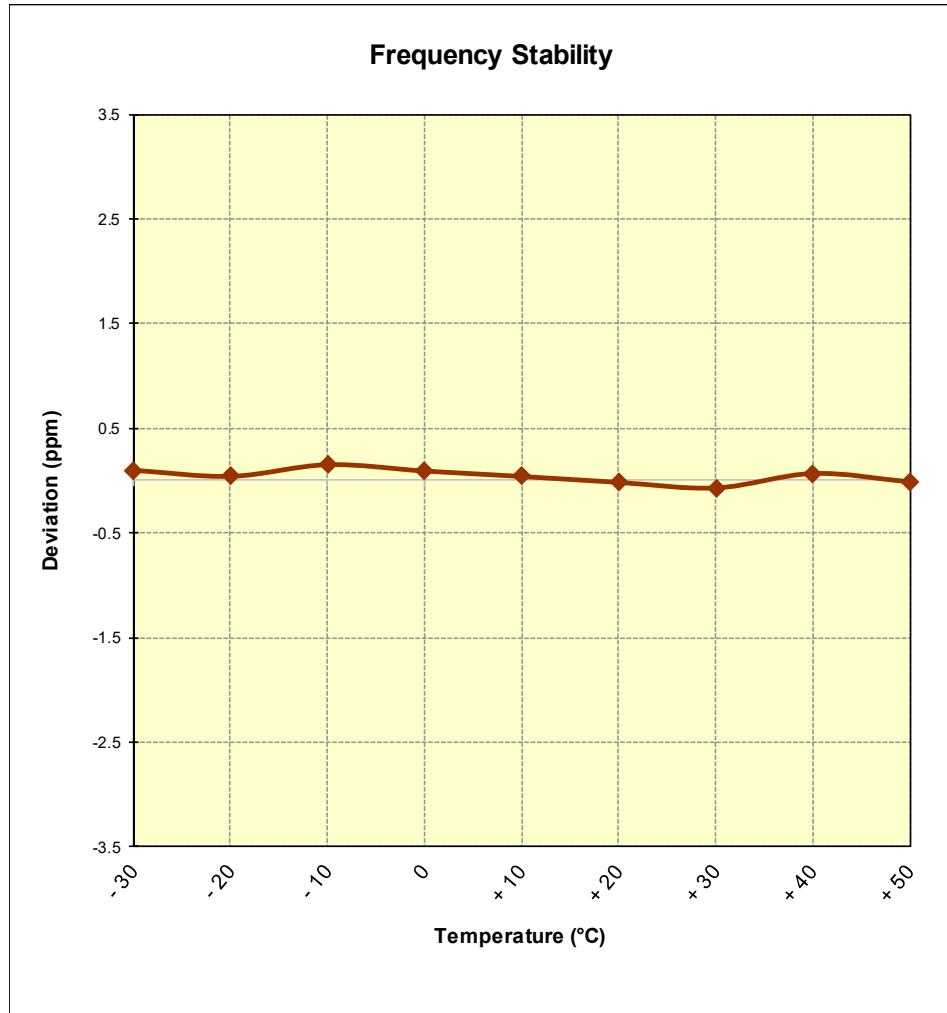


Figure 7-13. Frequency Stability Graph (Band 41)

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT865** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

FCC ID: A3LSMT865		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
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