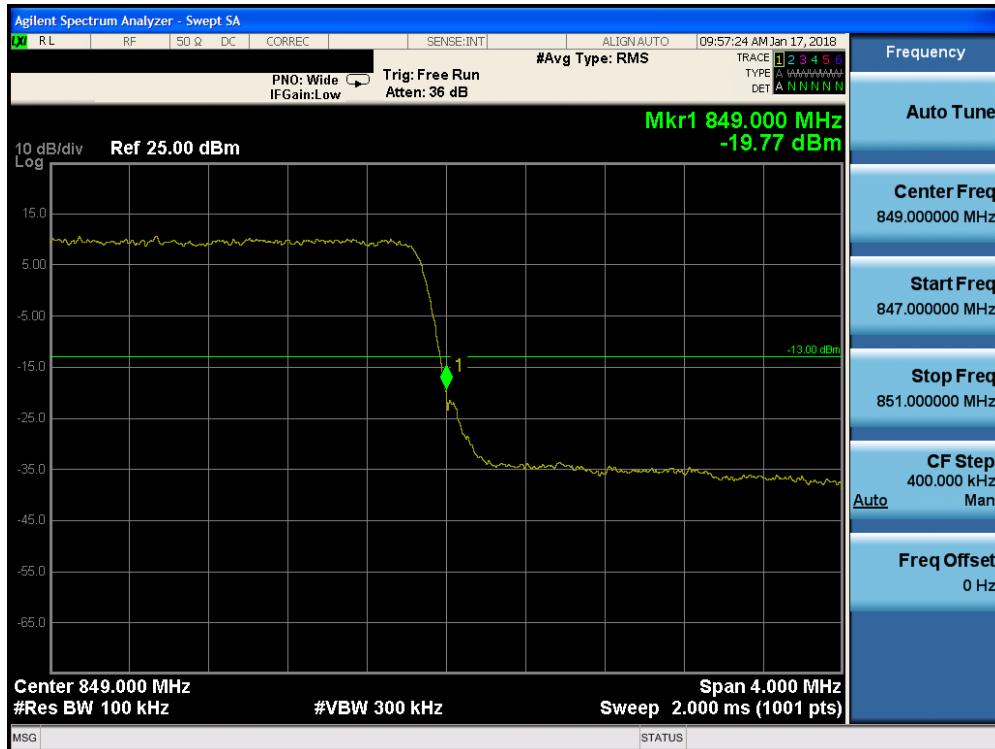


Plot 7-210. Lower Band Edge Plot (Band 26 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-211. Upper Band Edge Plot (Band 26 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 131 of 260

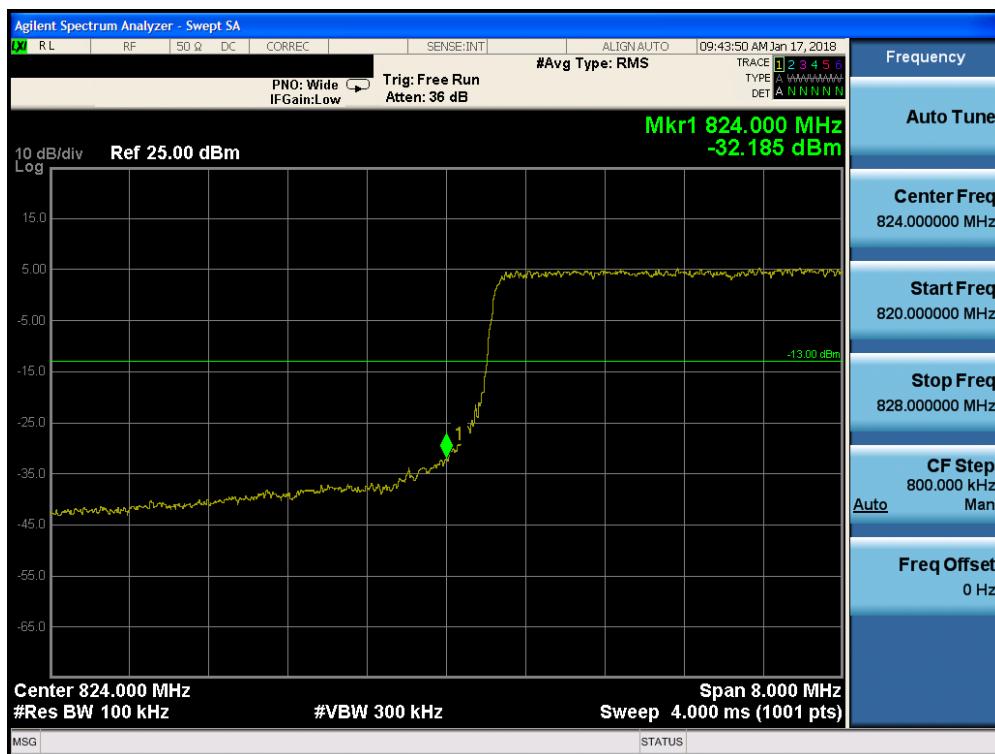


Plot 7-212. Lower Band Edge Plot (Band 26 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-213. Upper Band Edge Plot (Band 26 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 132 of 260



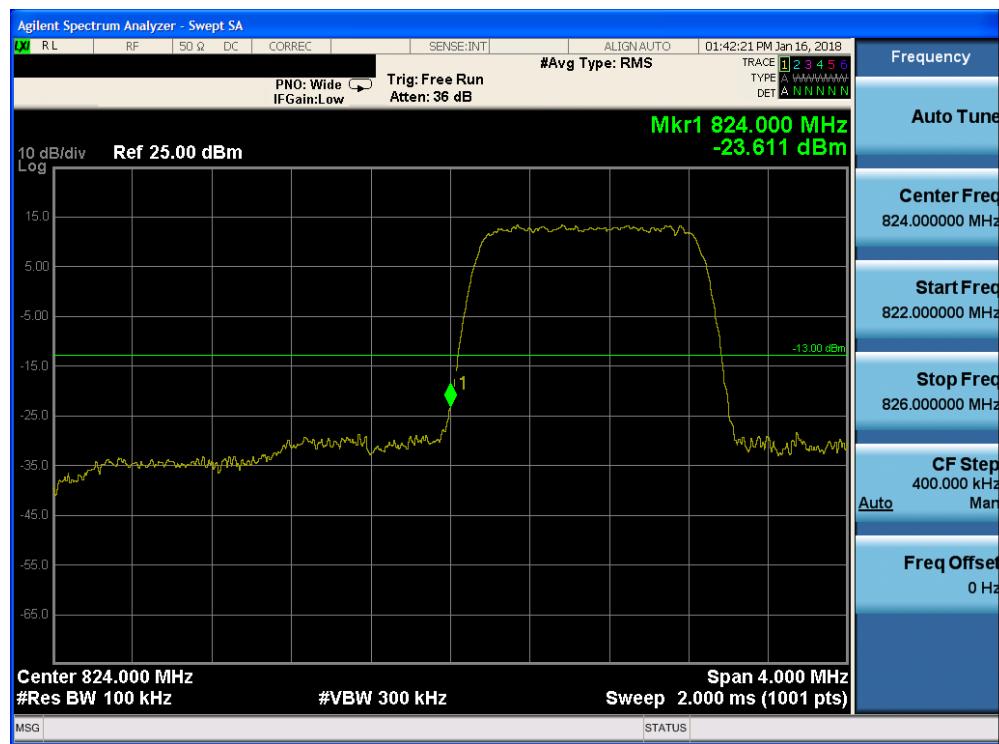
Plot 7-214. Lower Band Edge Plot (Band 26 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-215. Upper Band Edge Plot (Band 26 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 133 of 260

## Band 5

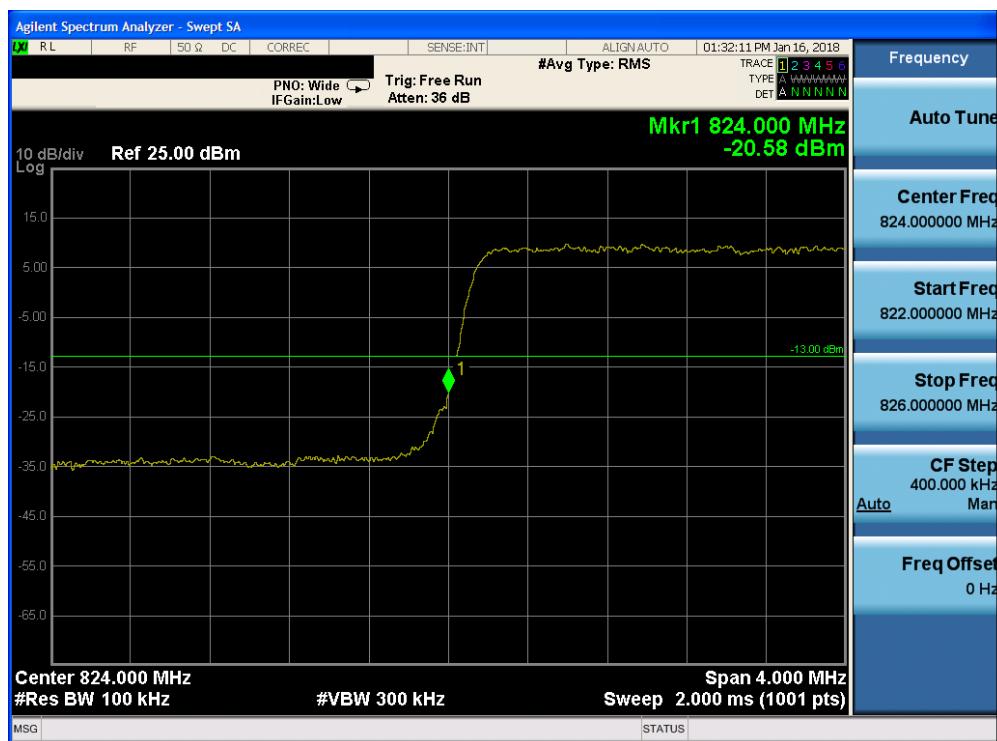


Plot 7-216. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-217. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 134 of 260

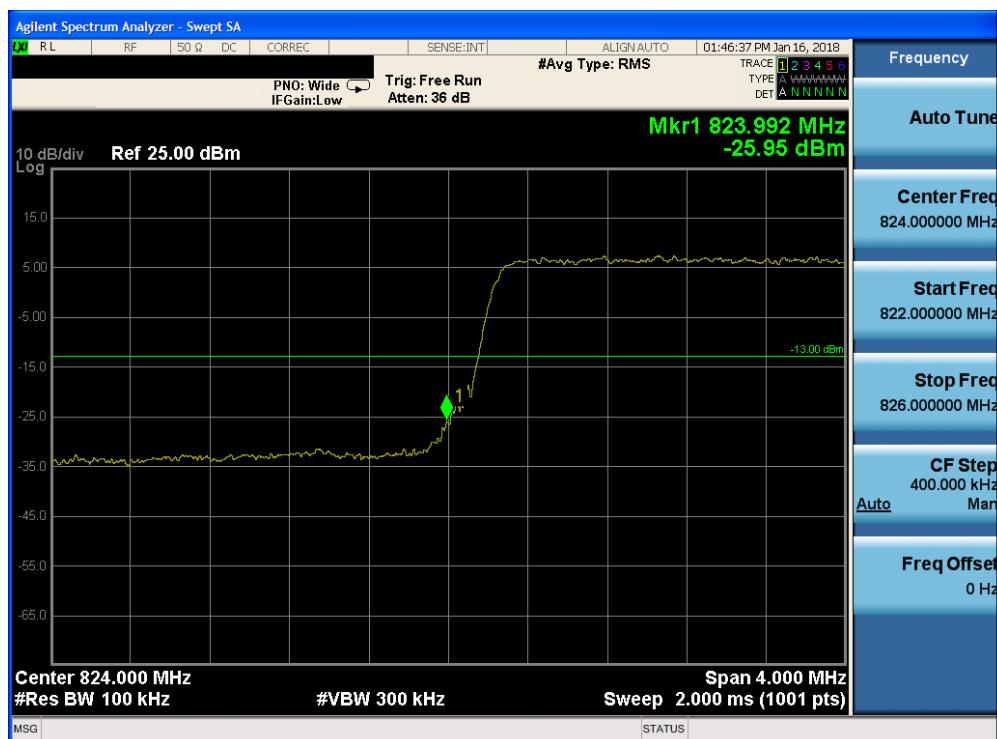


Plot 7-218. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

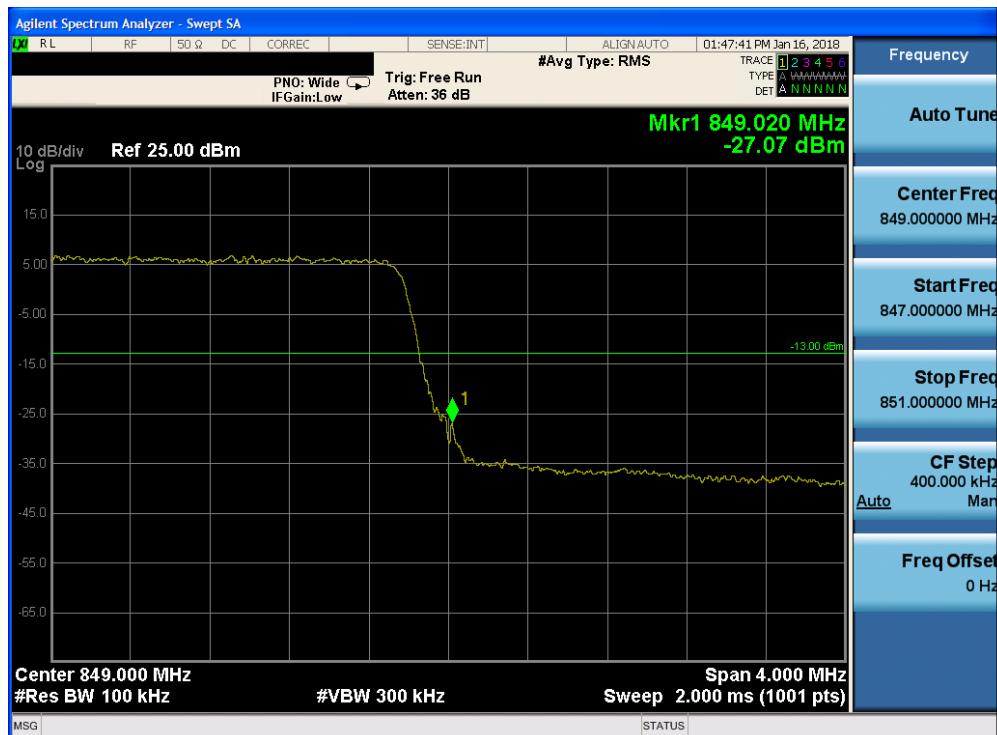


Plot 7-219. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 135 of 260

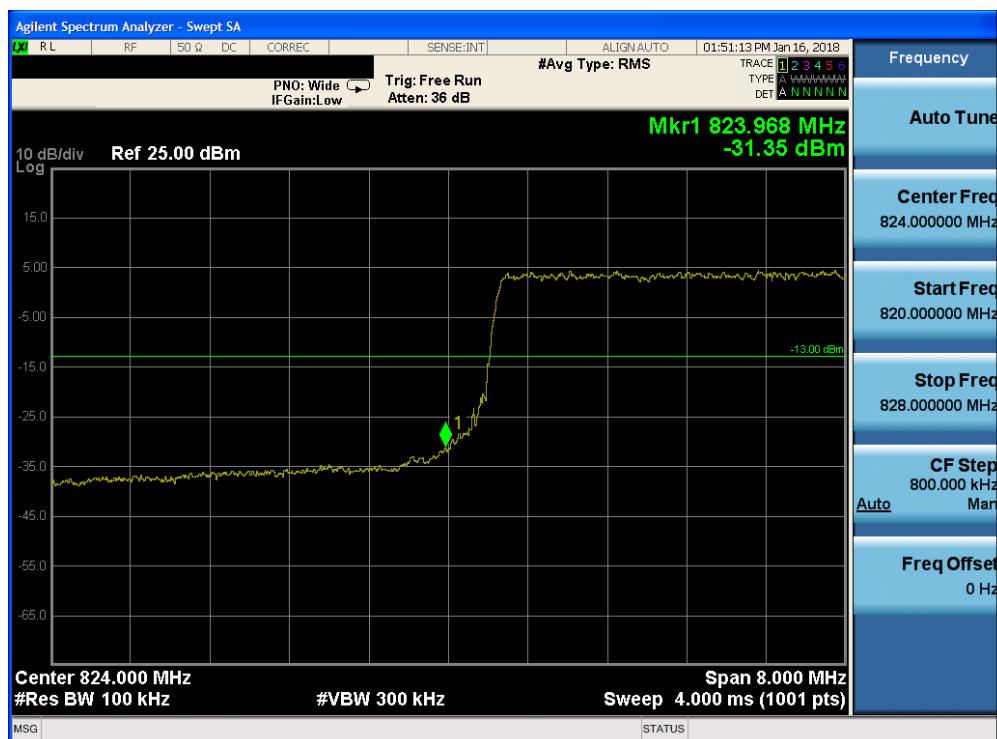


Plot 7-220. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-221. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 136 of 260



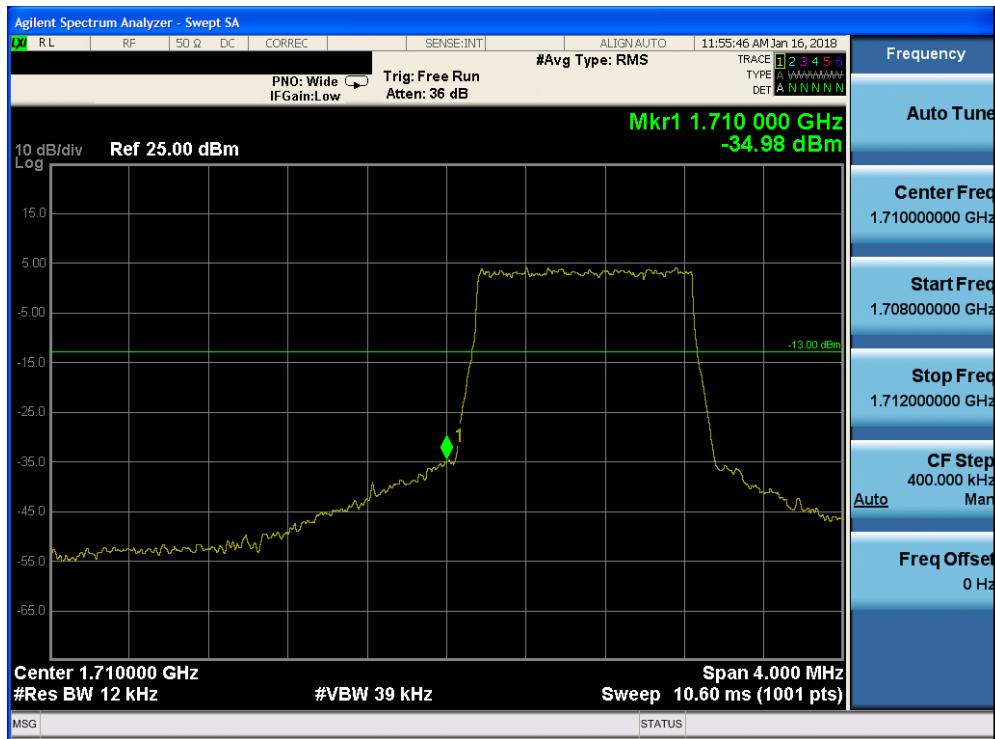
Plot 7-222. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)



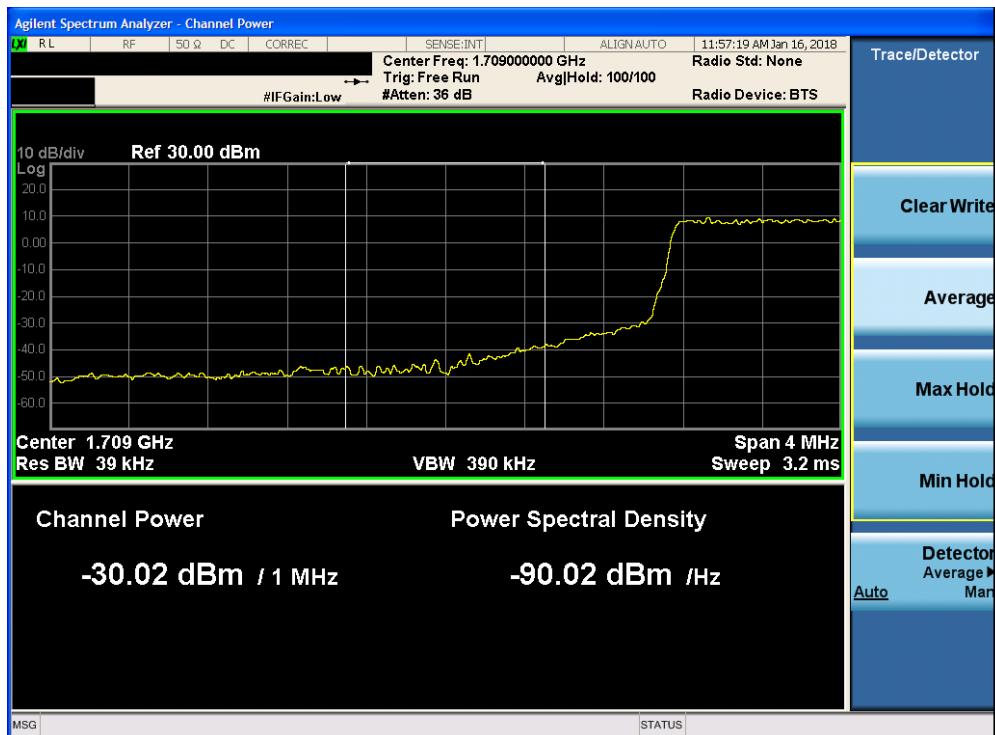
Plot 7-223. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 137 of 260

## Band 4



Plot 7-224. Lower Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

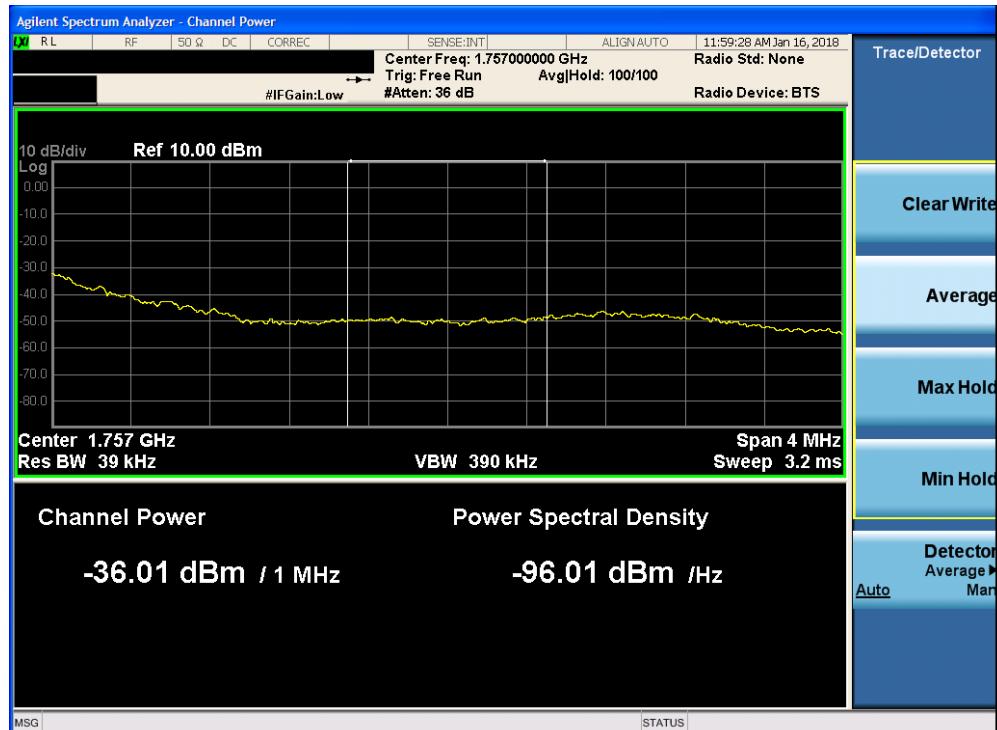


Plot 7-225. Lower Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 138 of 260	

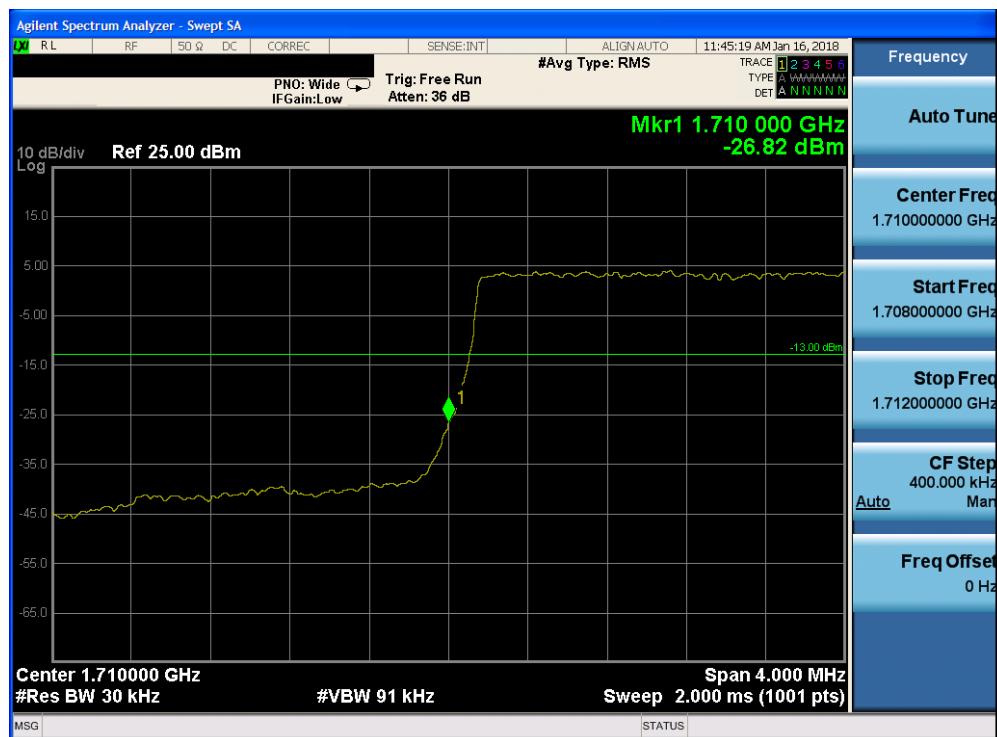


Plot 7-226. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

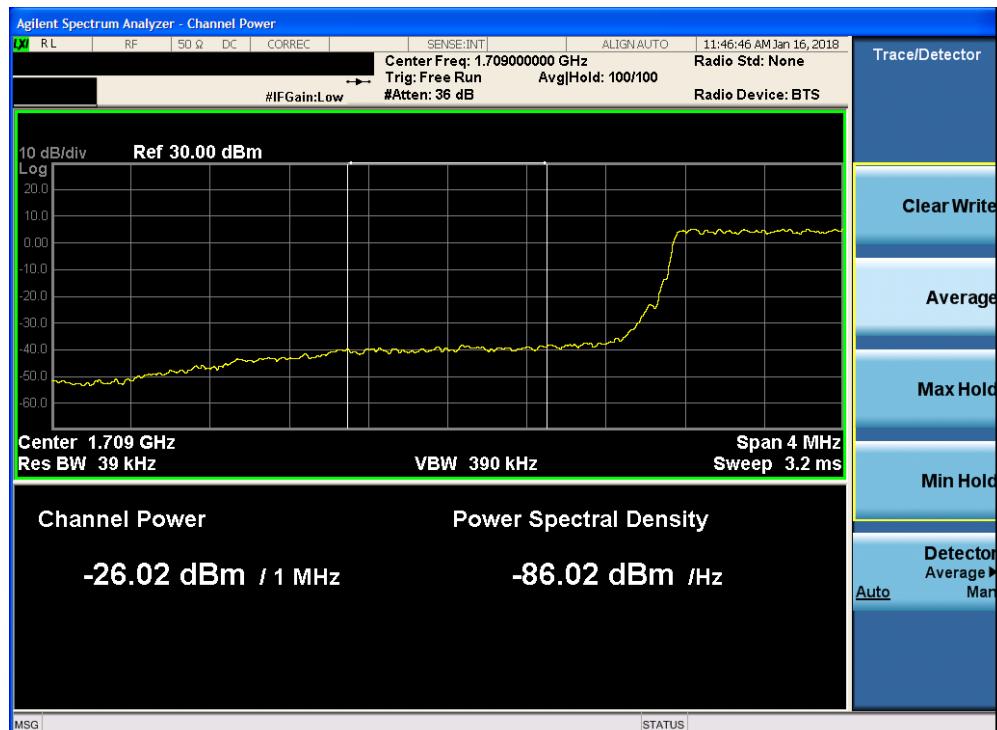


Plot 7-227. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 139 of 260



Plot 7-228. Lower Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

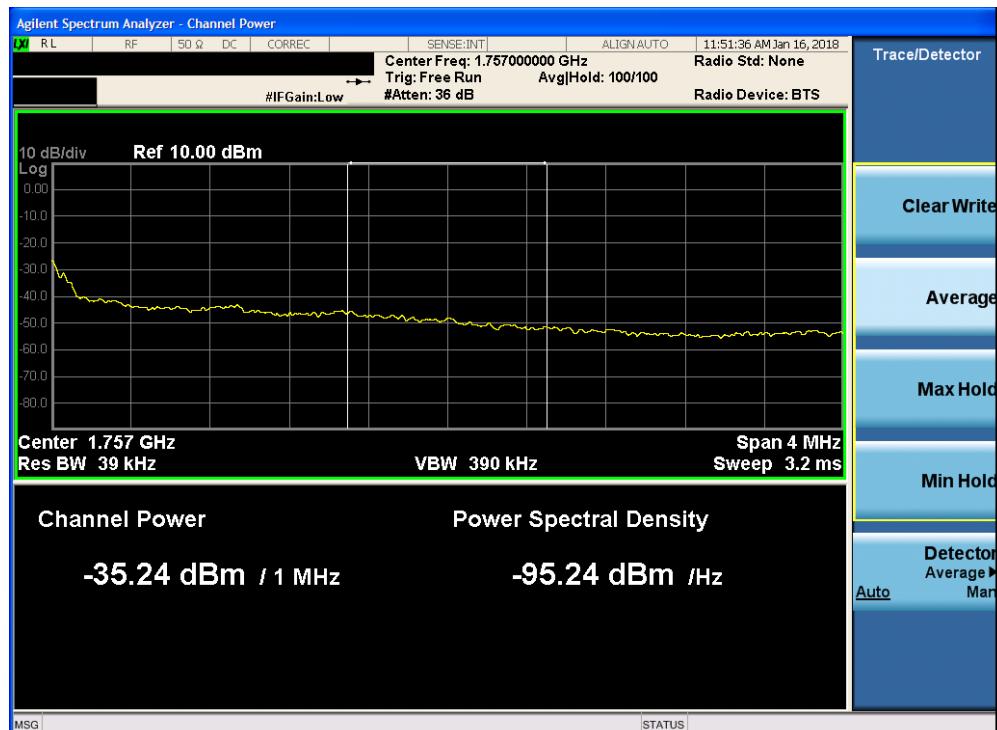


Plot 7-229. Lower Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 140 of 260

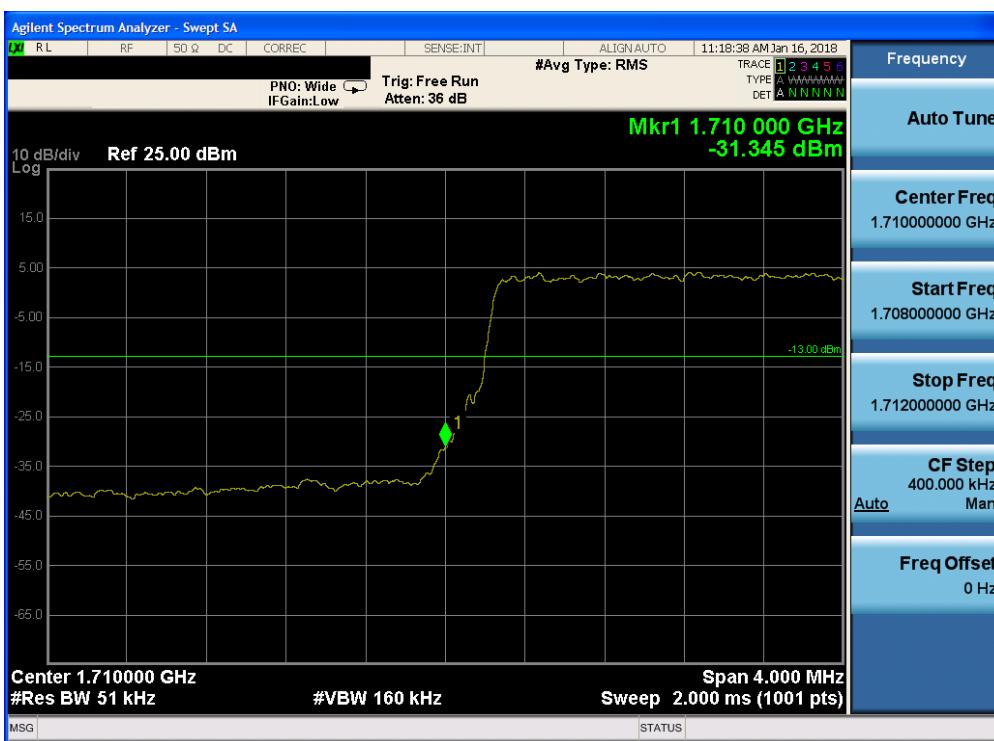


Plot 7-230. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

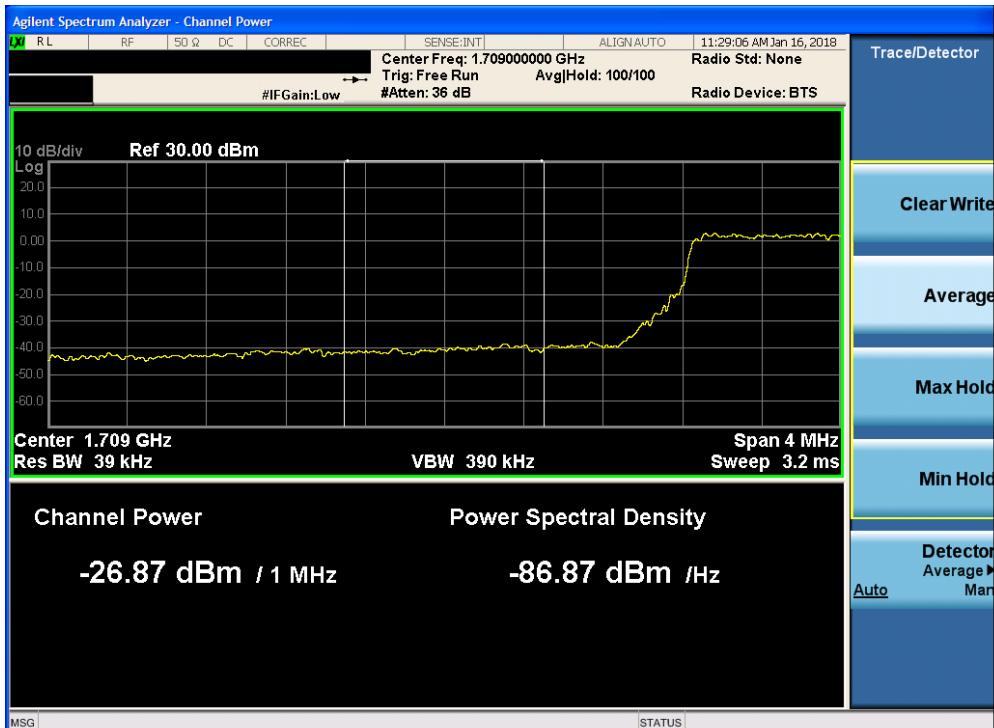


Plot 7-231. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 141 of 260



Plot 7-232. Lower Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

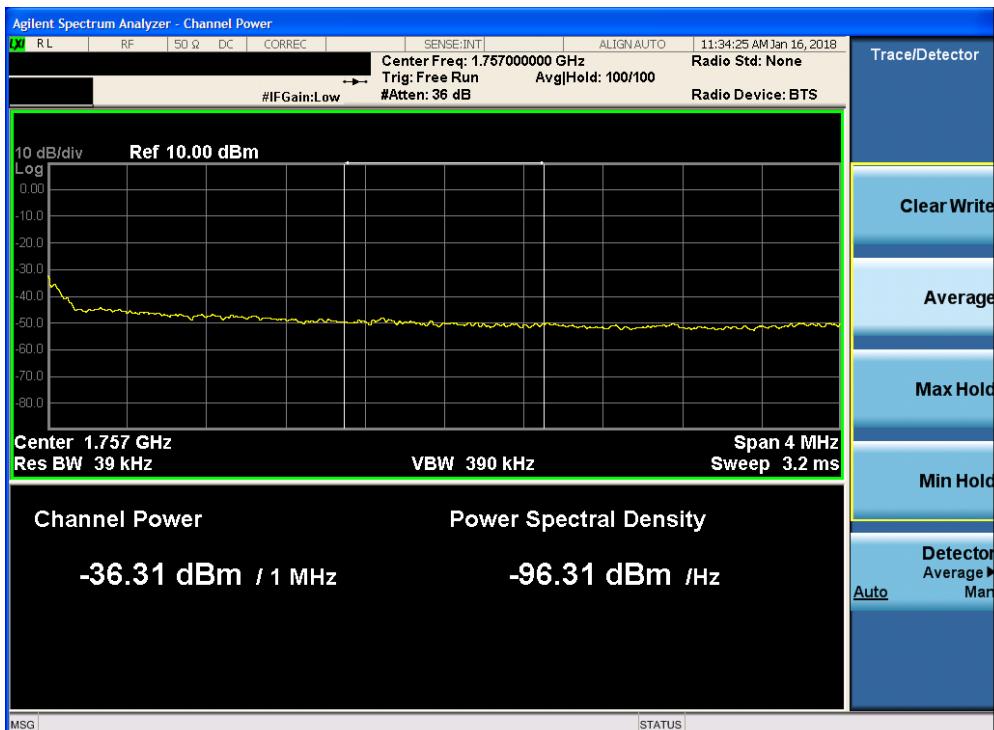


Plot 7-233. Lower Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 142 of 260

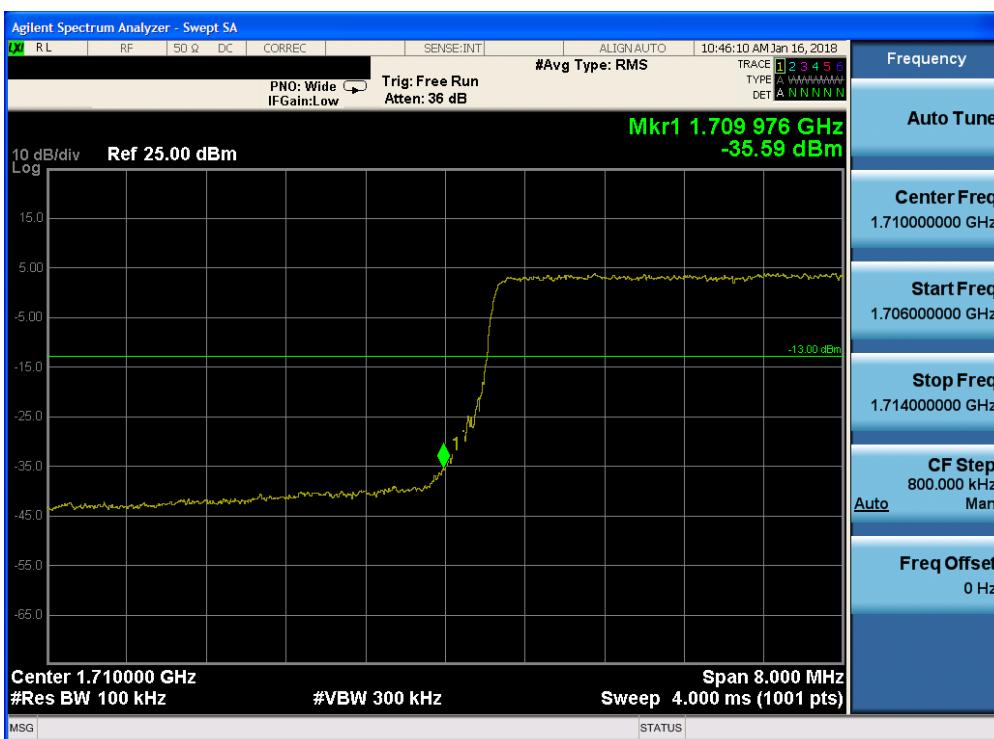


Plot 7-234. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

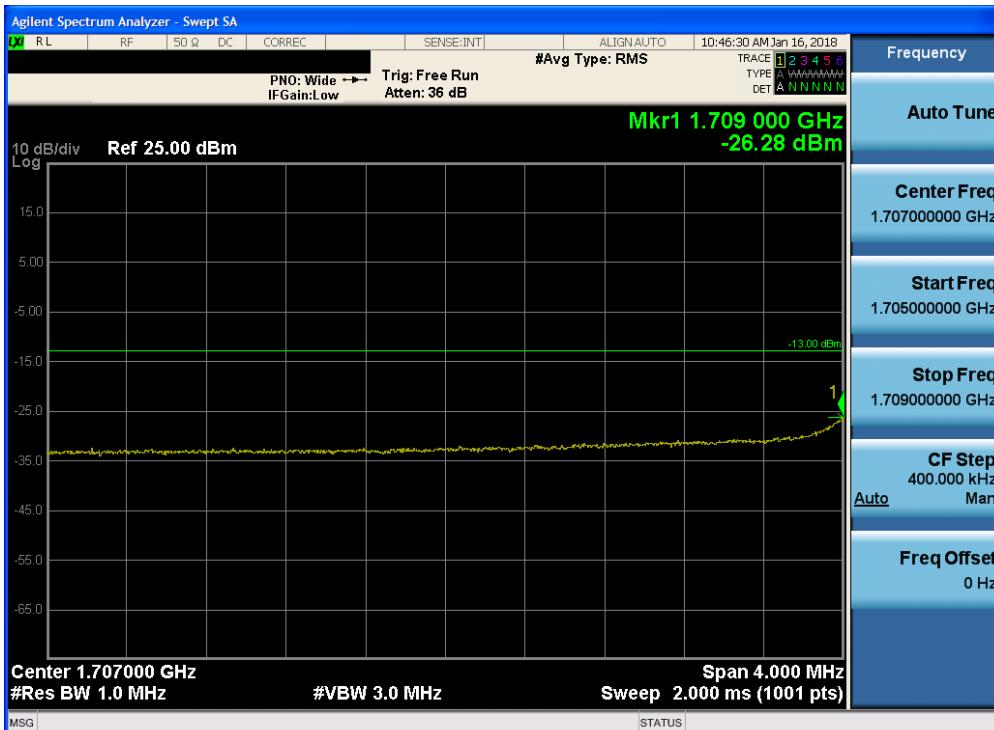


Plot 7-235. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 143 of 260



Plot 7-236. Lower Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-237. Lower Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 144 of 260	

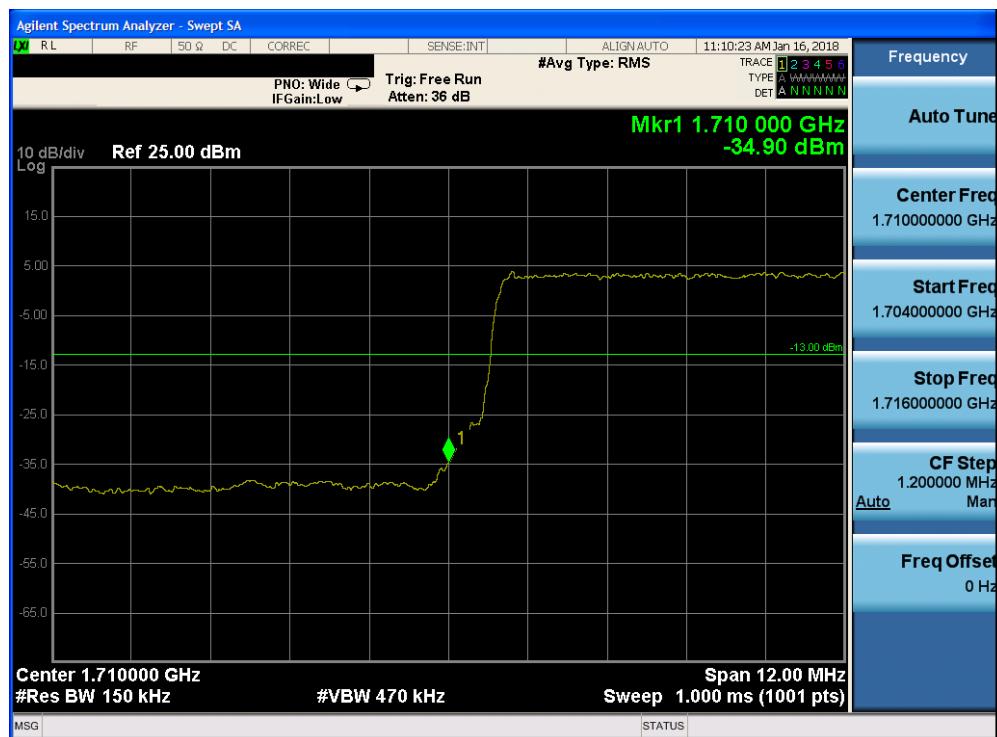


Plot 7-238. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

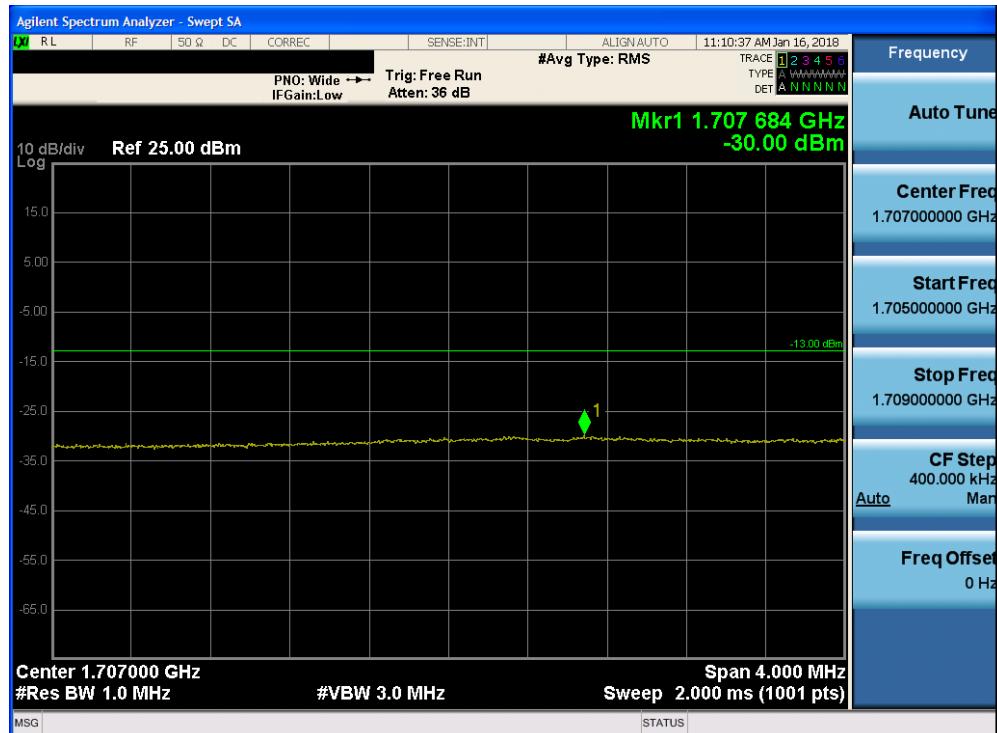


Plot 7-239. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 145 of 260

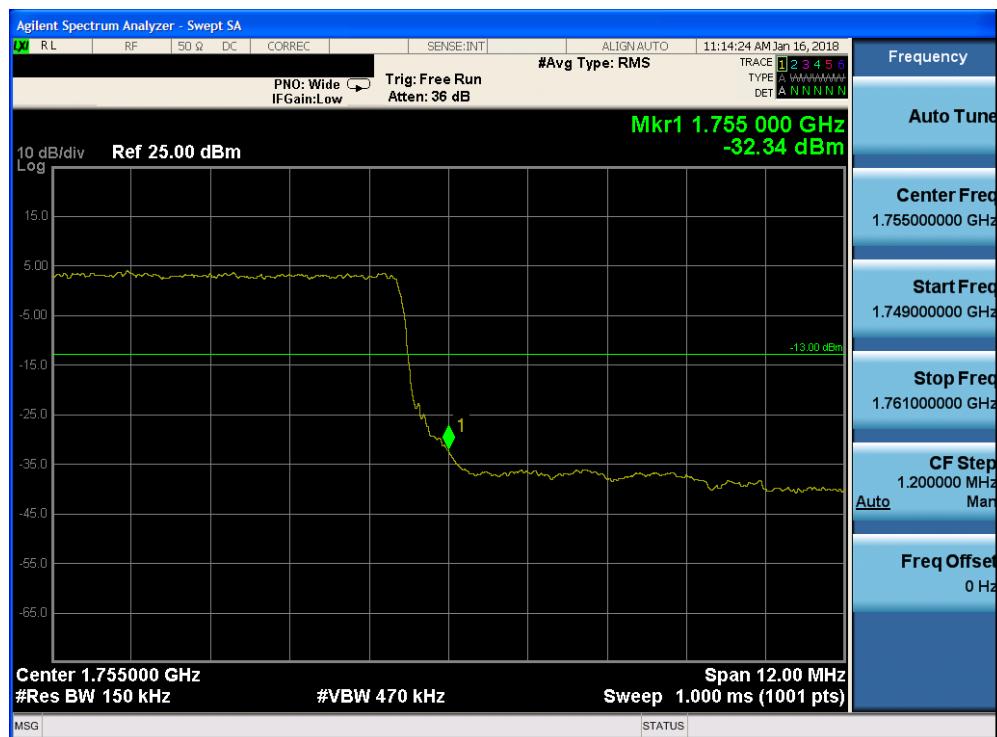


Plot 7-240. Lower Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

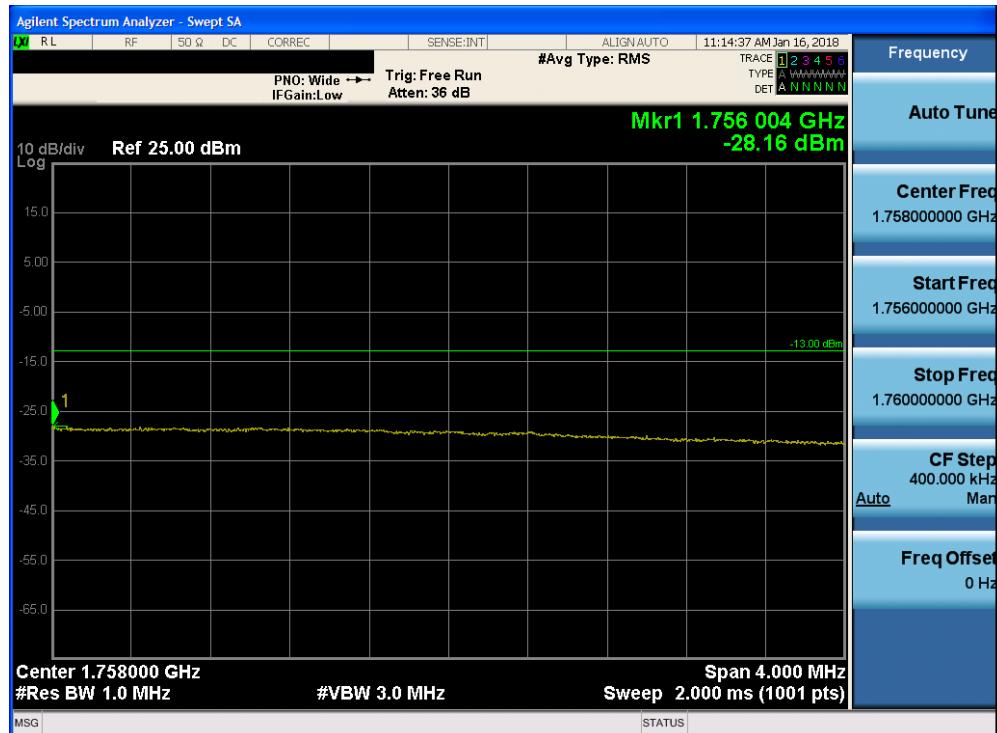


Plot 7-241. Lower Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 146 of 260

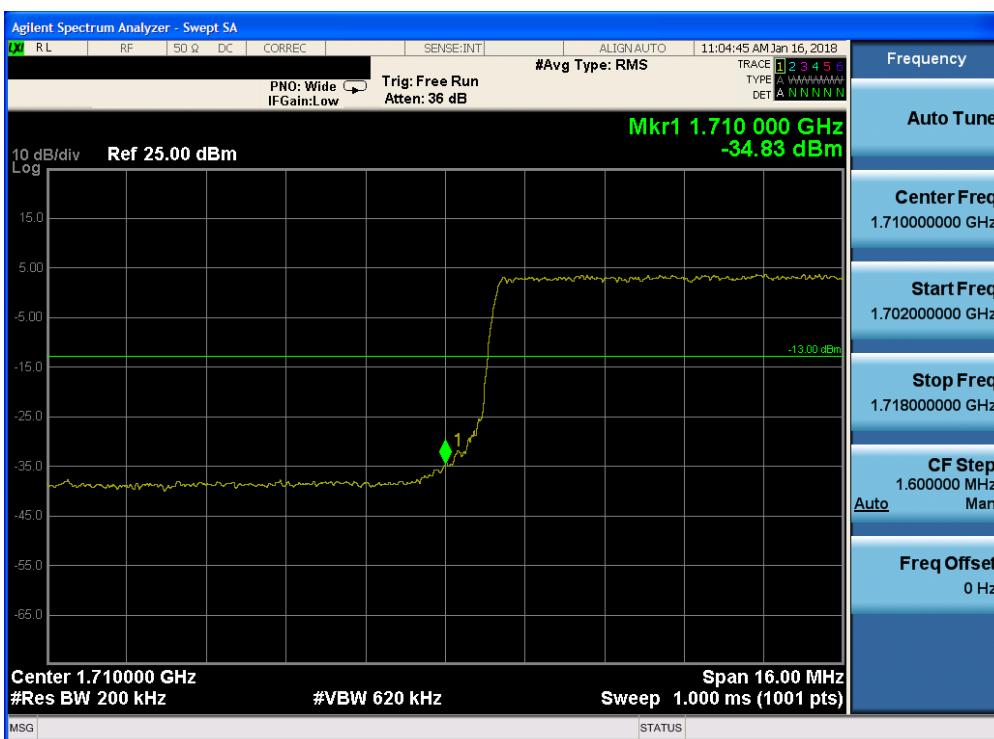


Plot 7-242. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

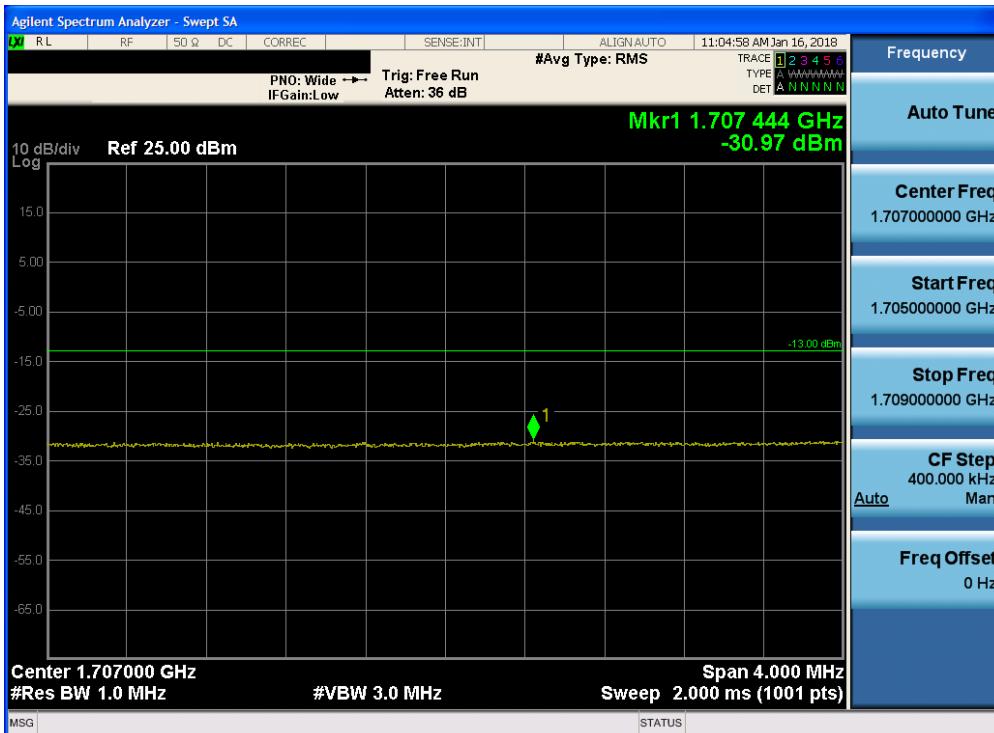


Plot 7-243. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 147 of 260

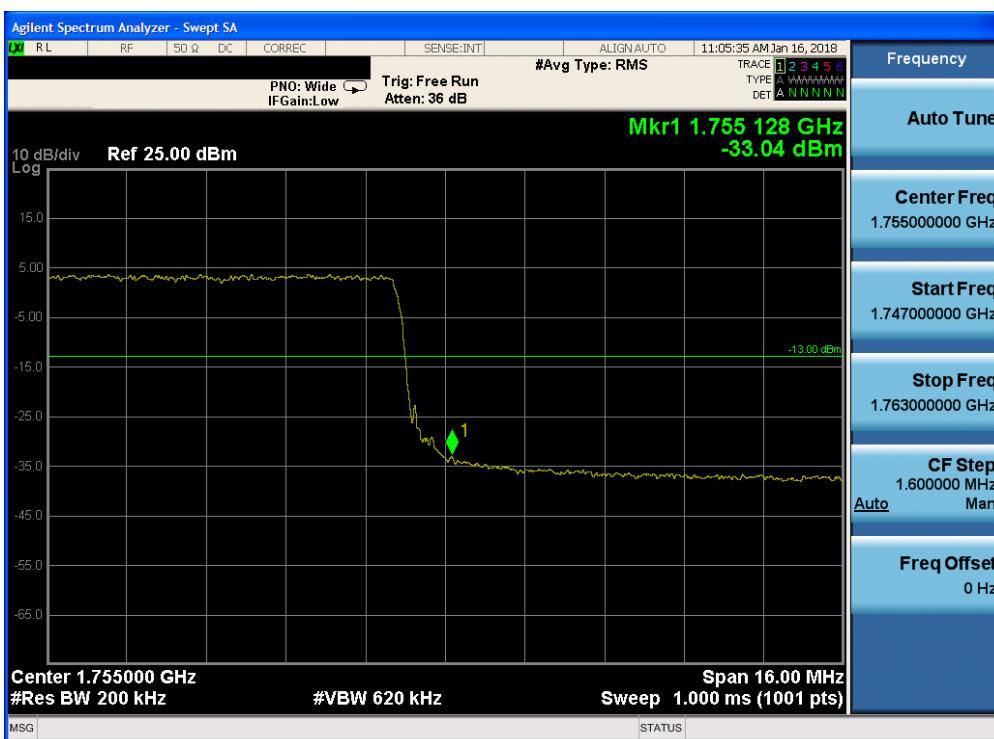


Plot 7-244. Lower Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

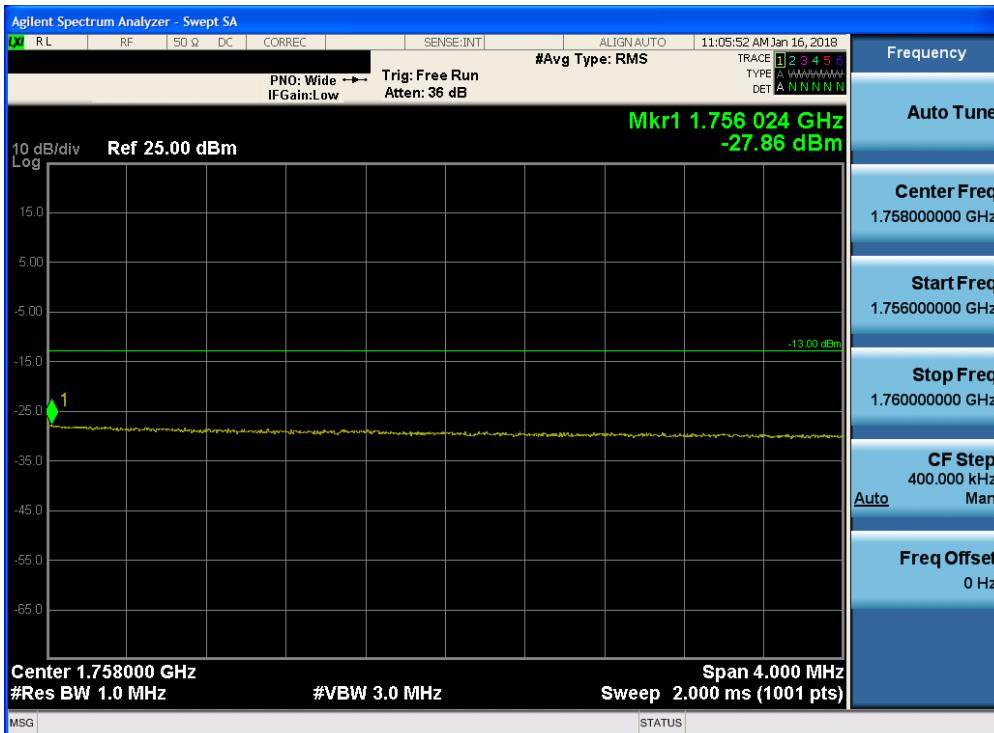


Plot 7-245. Lower Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 148 of 260	



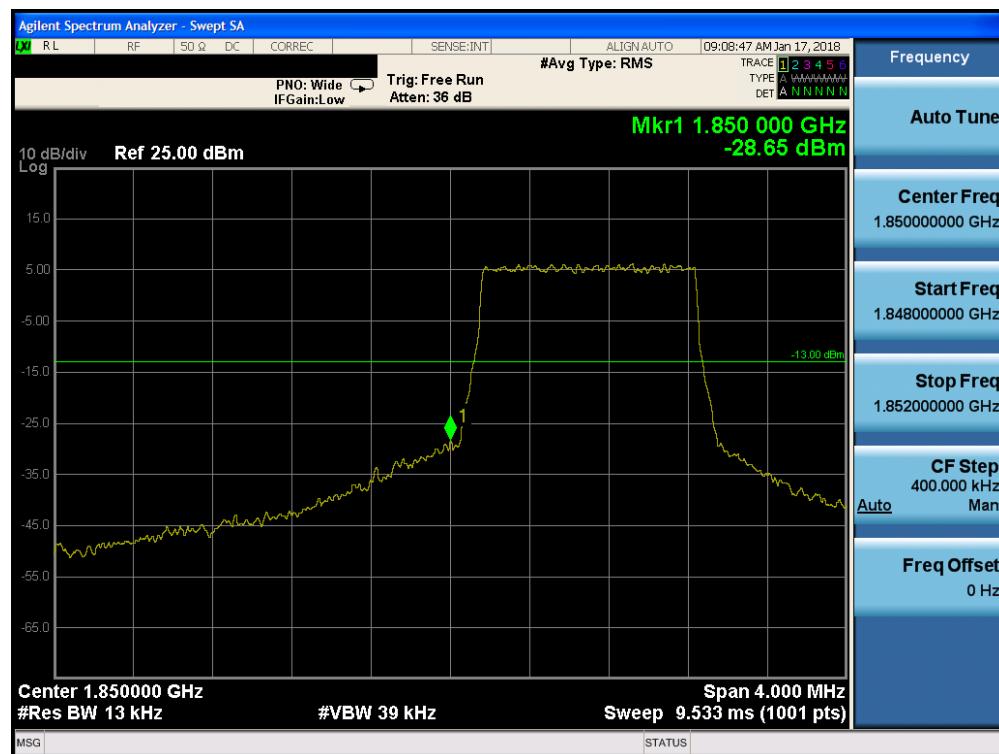
Plot 7-246. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-247. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 149 of 260

## Band 25



Plot 7-248. Lower Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

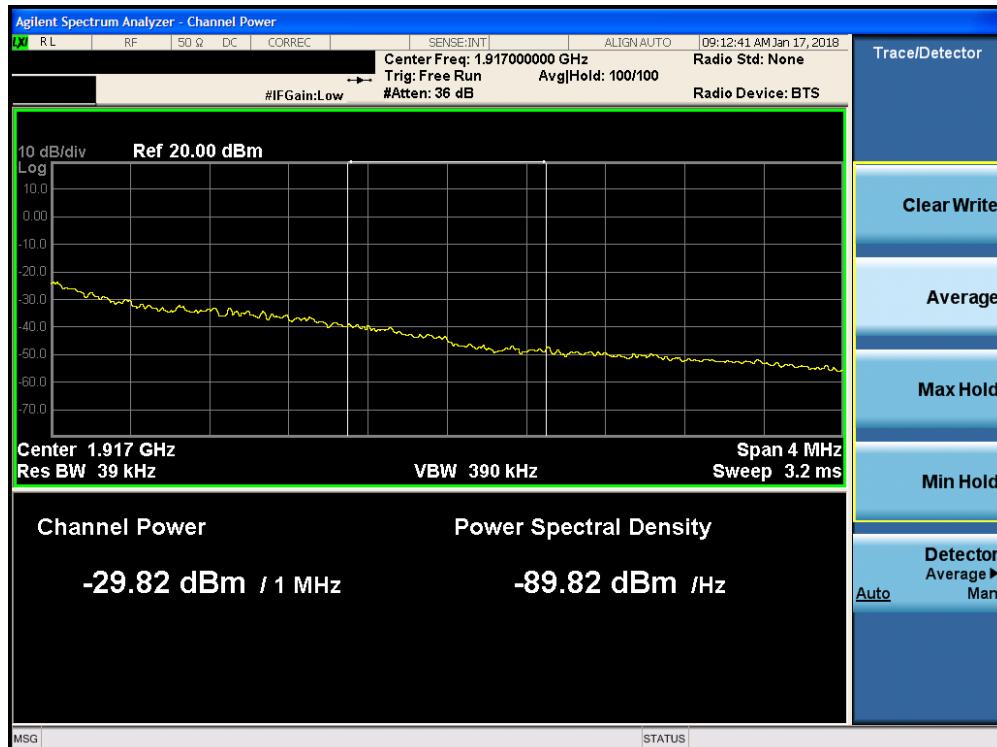


Plot 7-249. Lower Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 PCTEST Engineering Laboratory, Inc.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 150 of 260

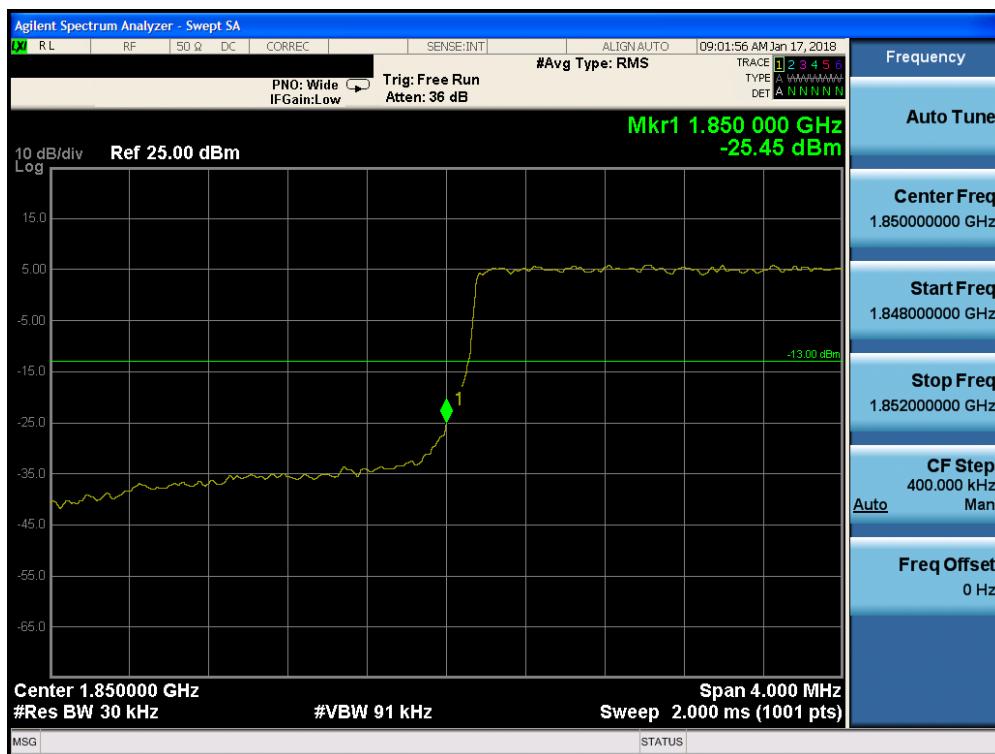


Plot 7-250. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

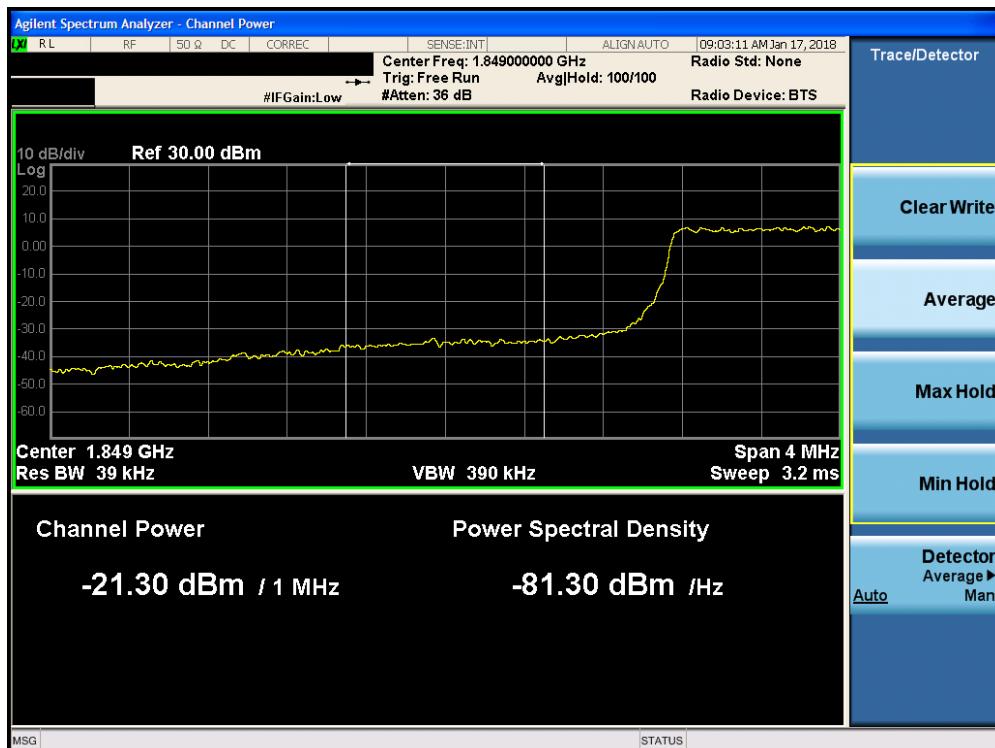


Plot 7-251. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 151 of 260

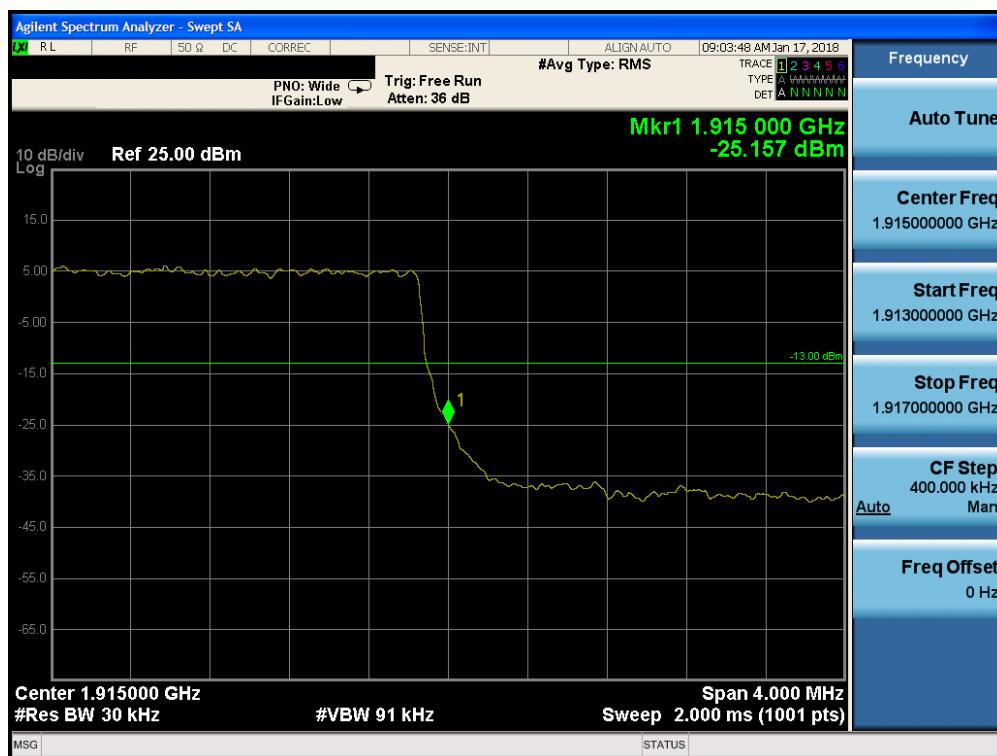


Plot 7-252. Lower Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

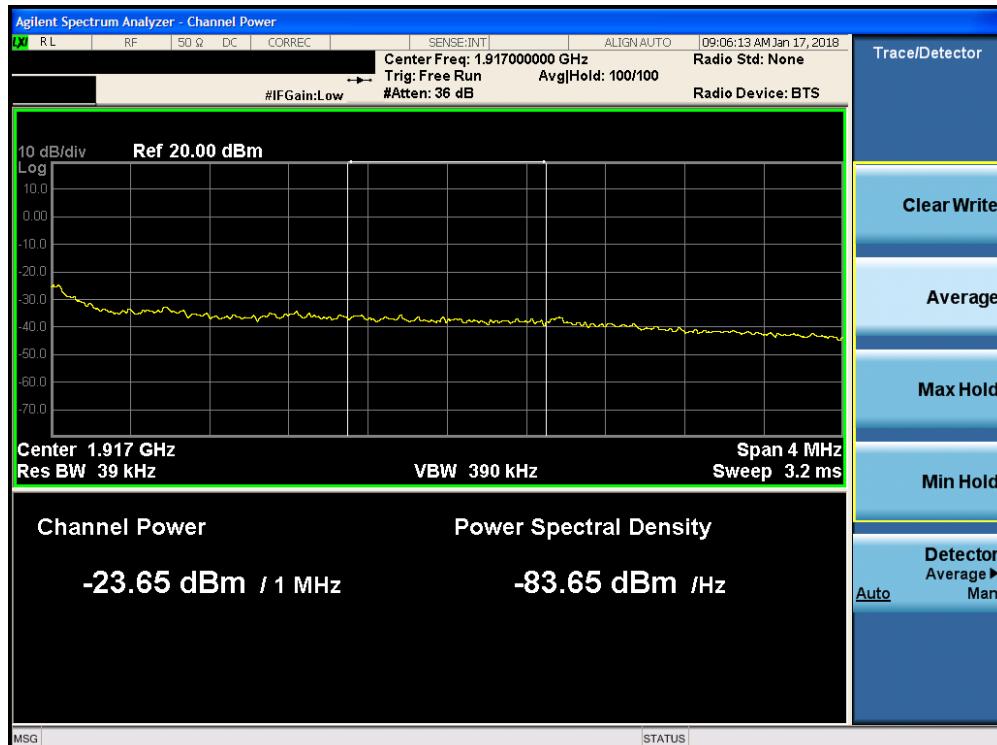


Plot 7-253. Lower Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 152 of 260



Plot 7-254. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

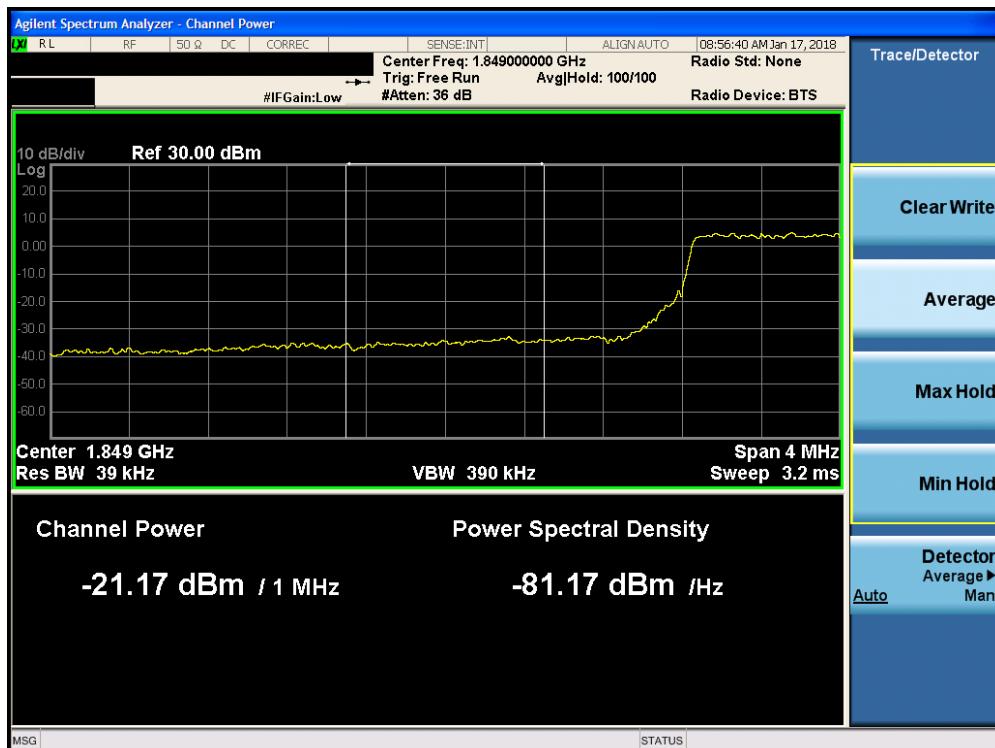


Plot 7-255. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 153 of 260



Plot 7-256. Lower Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

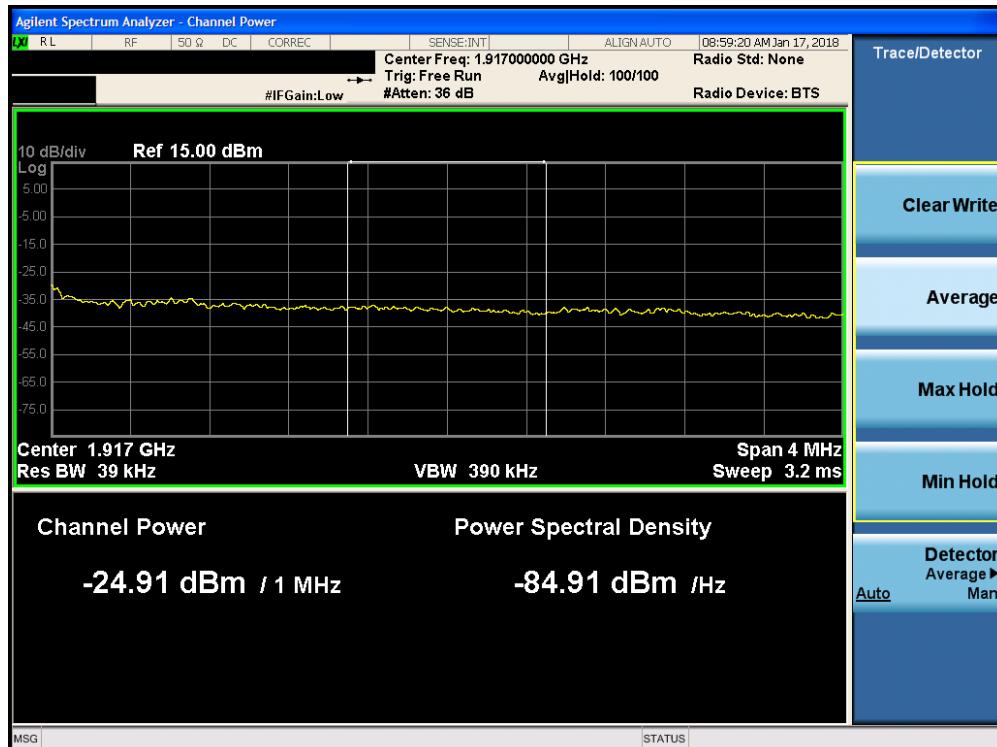


Plot 7-257. Lower Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 154 of 260



Plot 7-258. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

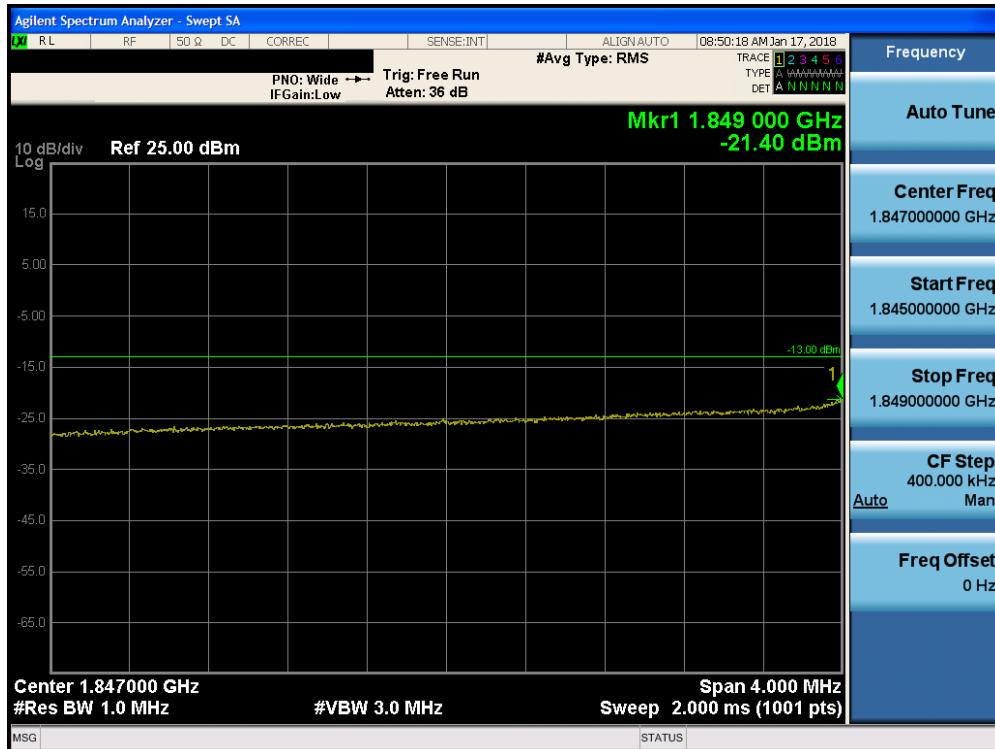


Plot 7-259. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

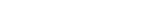
FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 155 of 260



**Plot 7-260. Lower Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)**

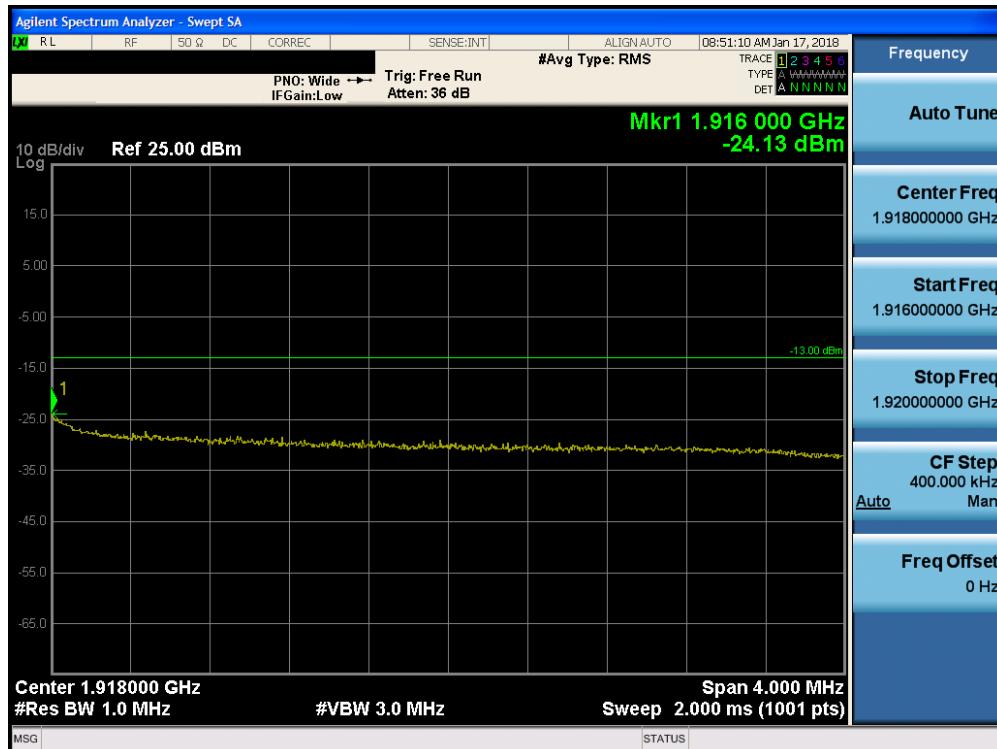


Plot 7-261. Lower Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 156 of 260



Plot 7-262. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

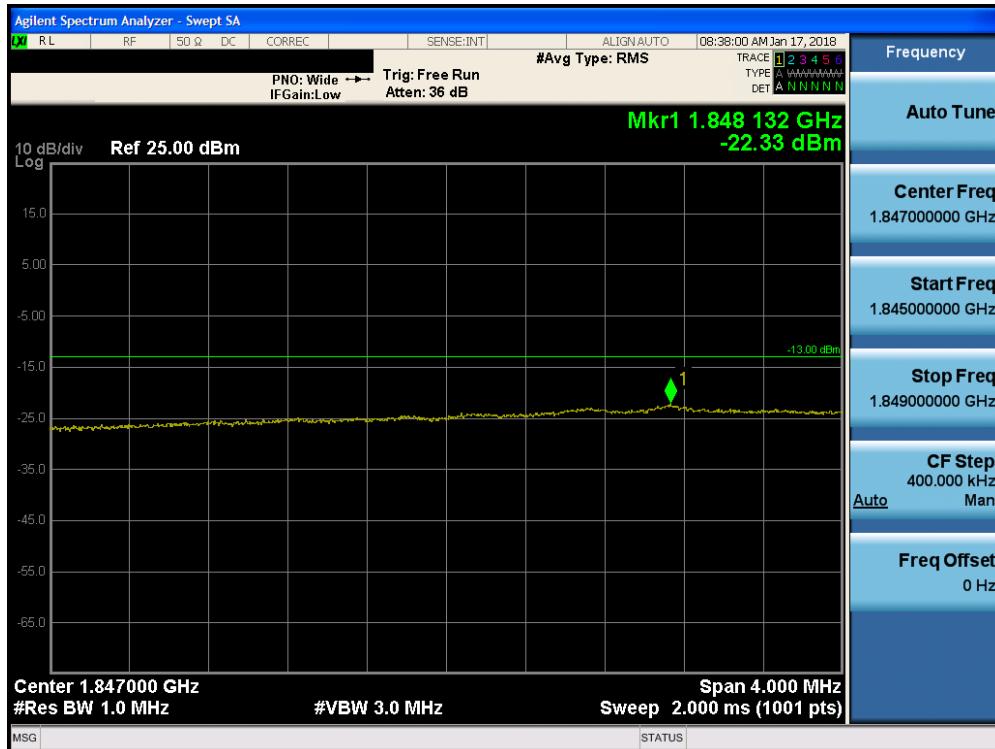


Plot 7-263. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 157 of 260



**Plot 7-264. Lower Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)**



Plot 7-265. Lower Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 158 of 260



Plot 7-266. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

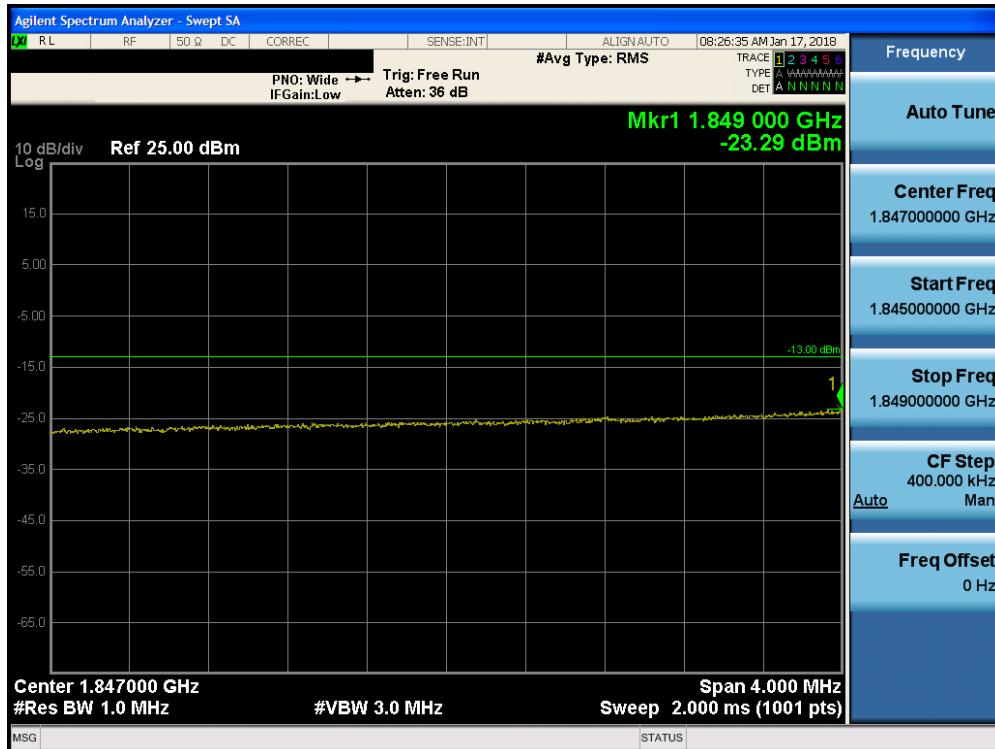


Plot 7-267. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 159 of 260



Plot 7-268. Lower Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-269. Lower Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 160 of 260



Plot 7-270. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



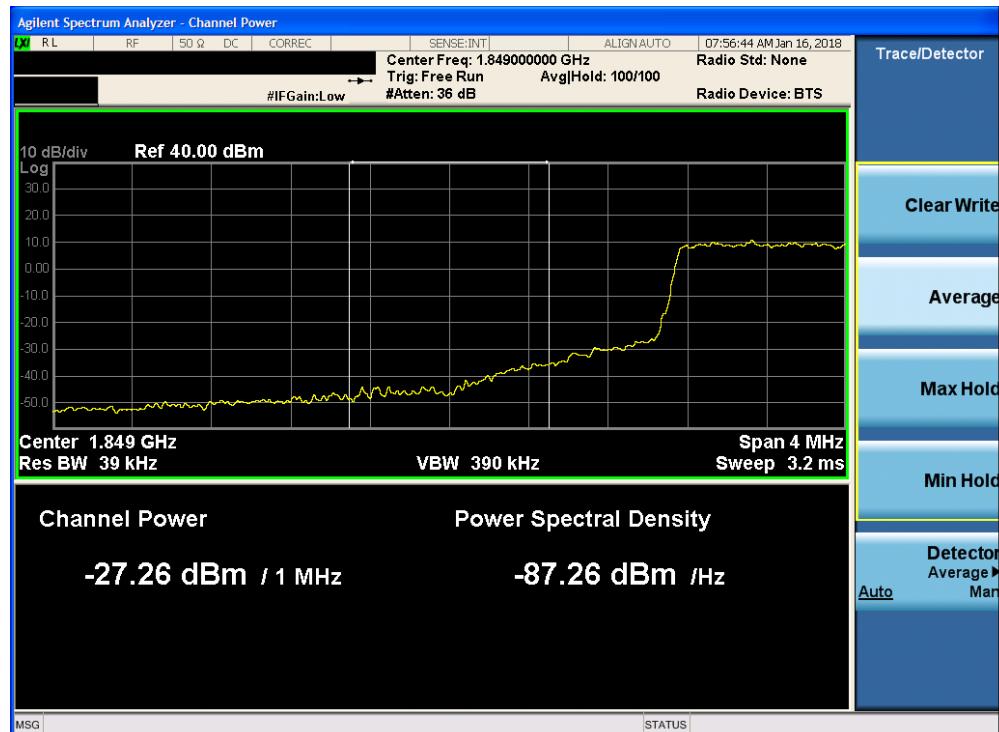
Plot 7-271. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 161 of 260

## Band 2



Plot 7-272. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

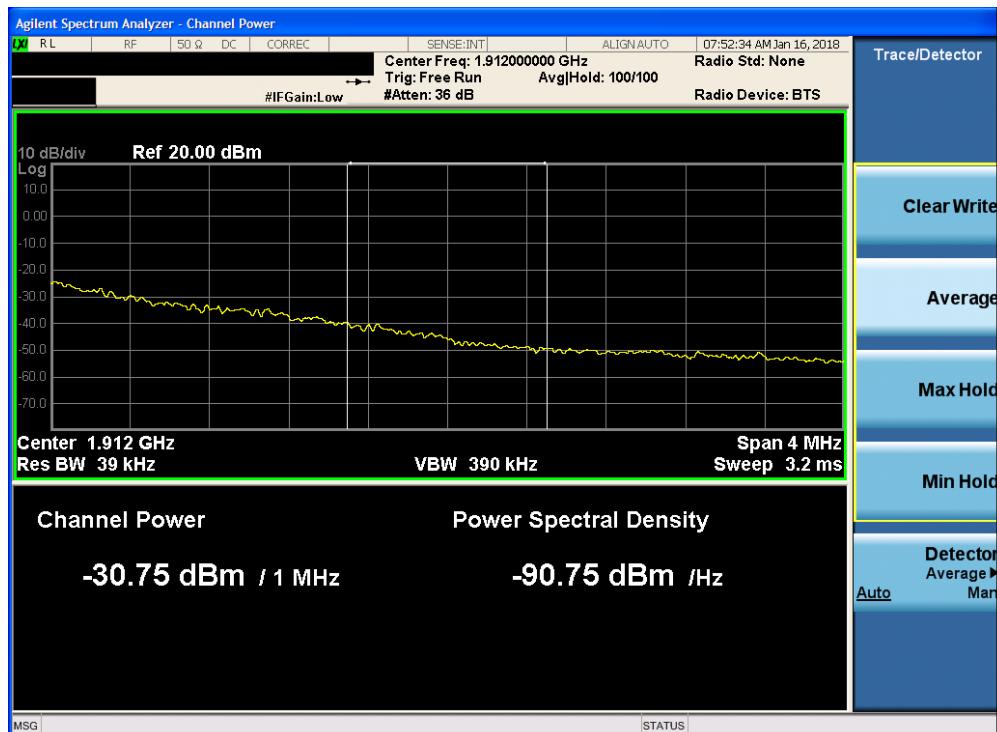


Plot 7-273. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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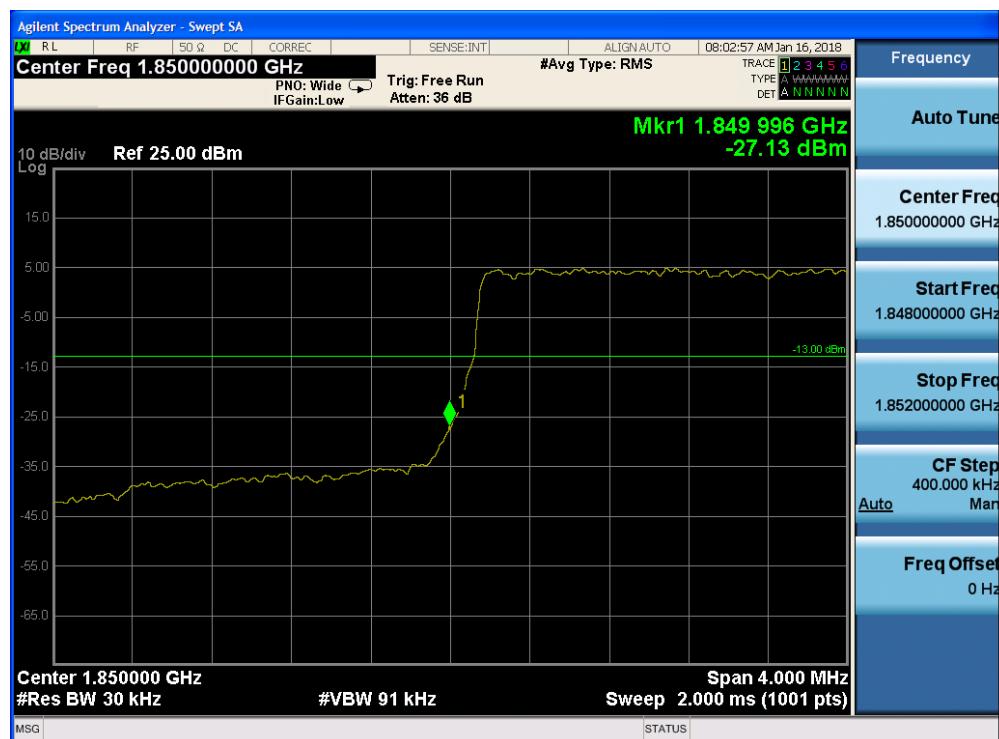


Plot 7-274. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

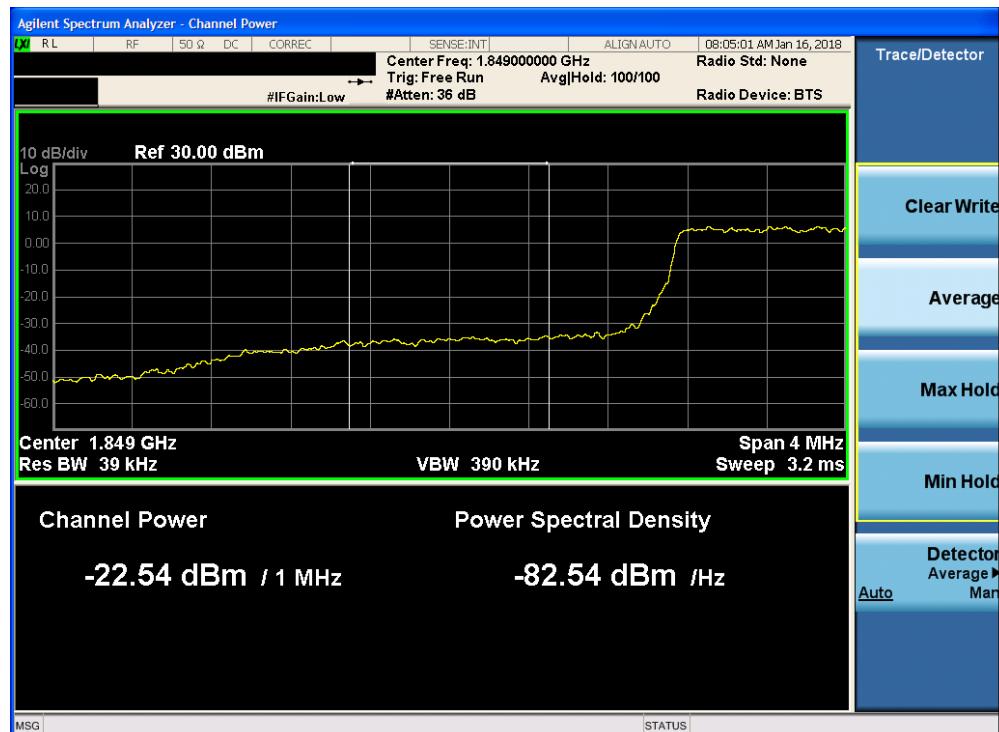


Plot 7-275. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-276. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

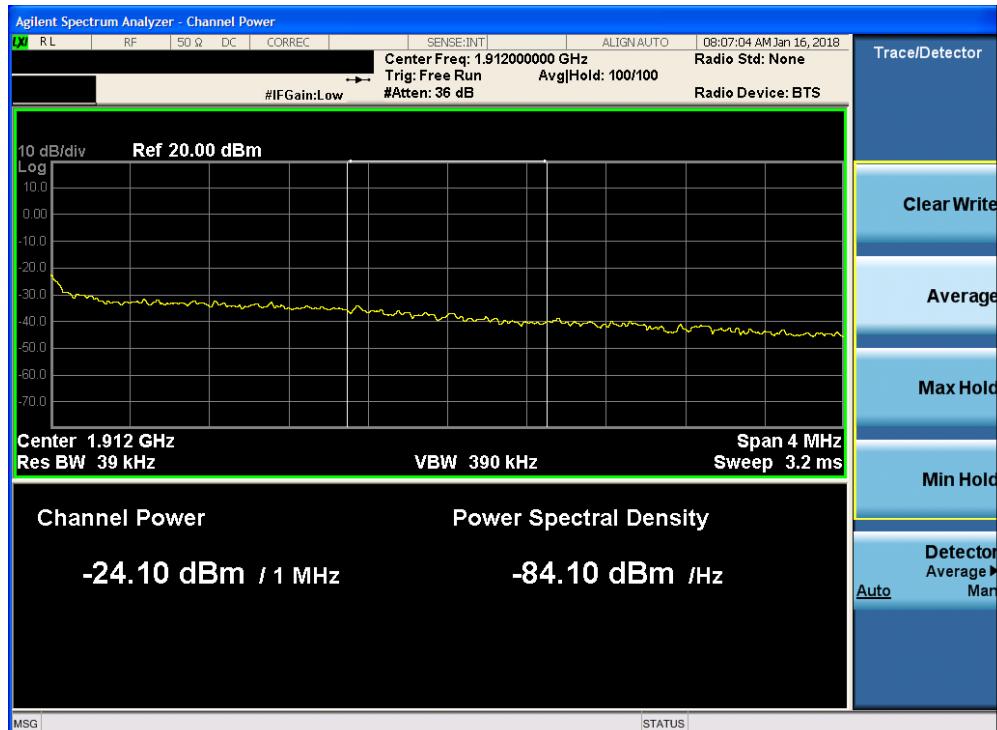


Plot 7-277. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 164 of 260

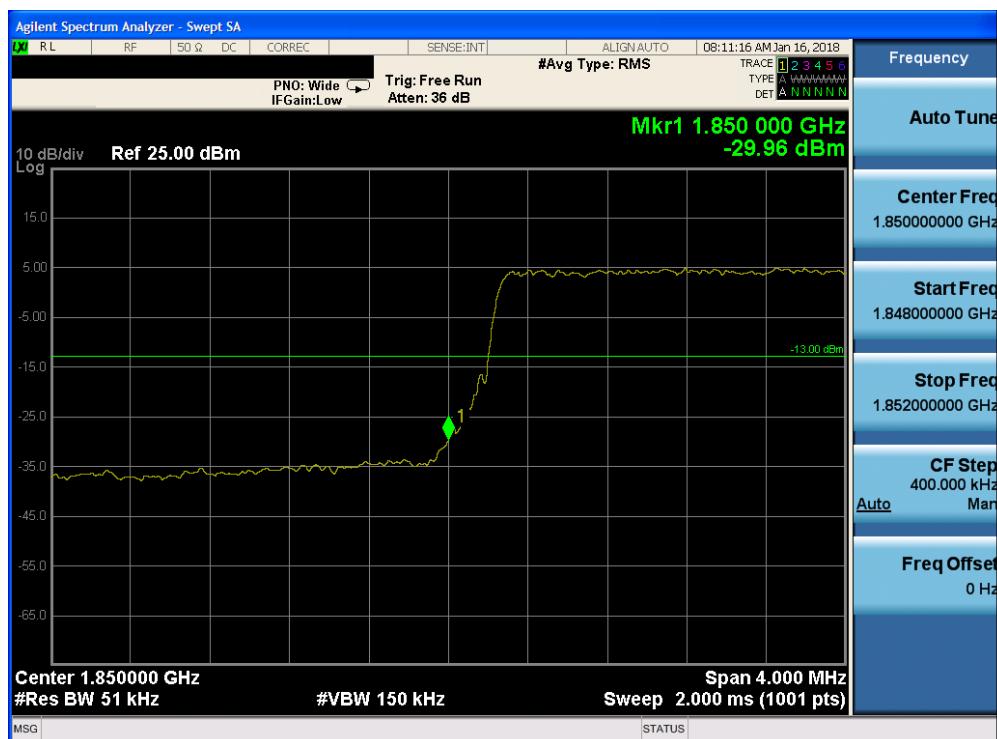


Plot 7-278. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

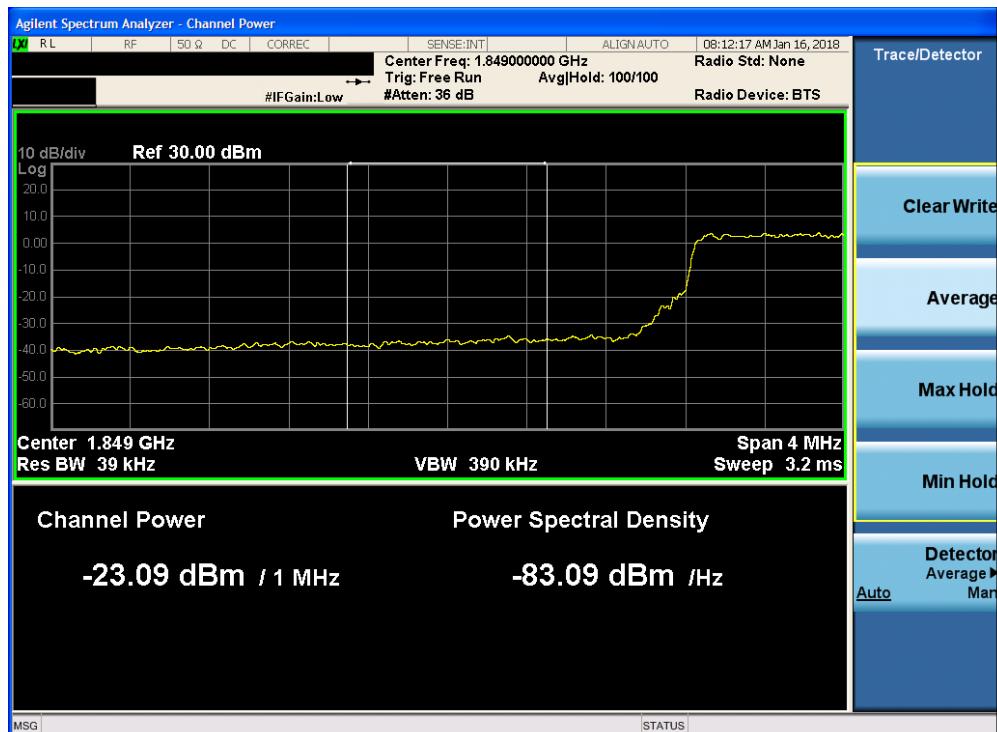


Plot 7-279. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 165 of 260



Plot 7-280. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

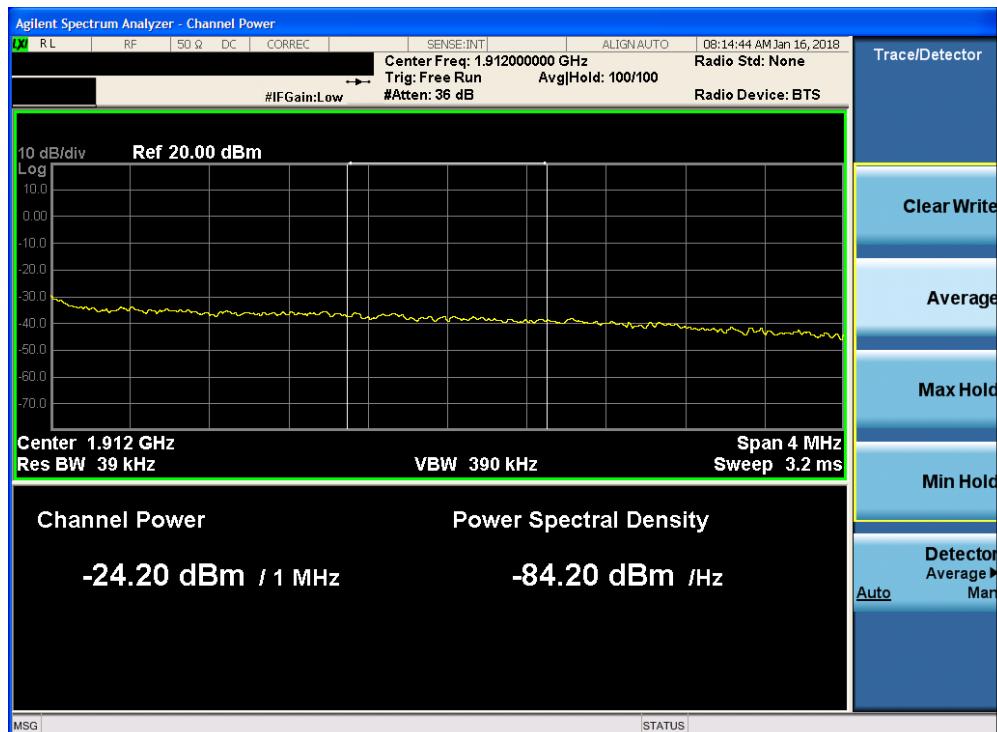


Plot 7-281. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 166 of 260

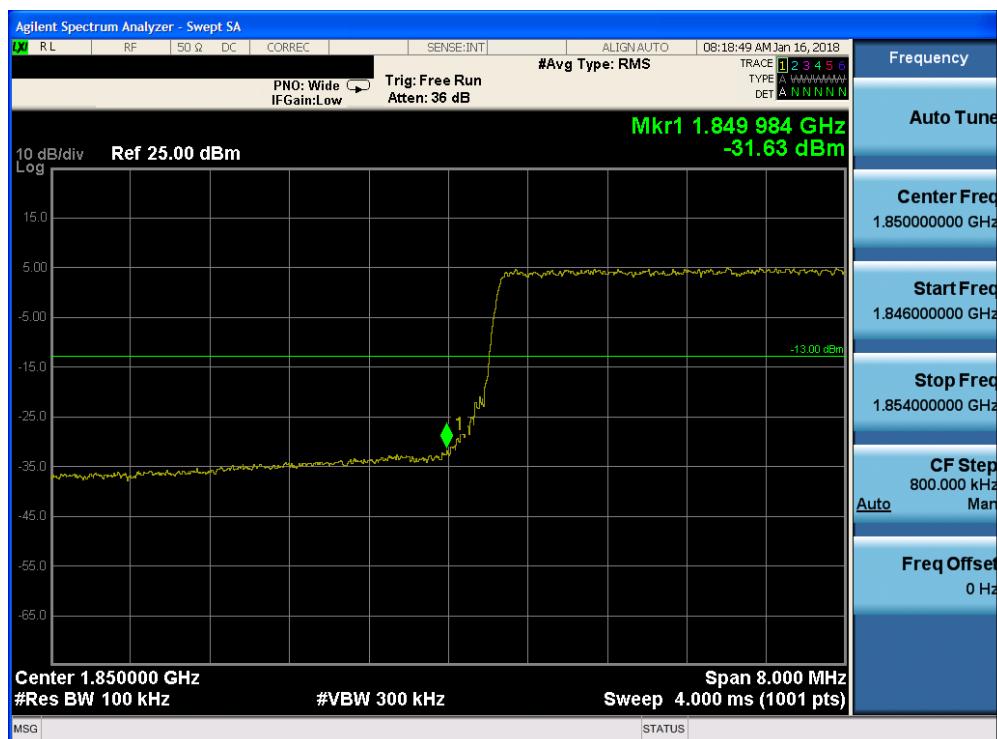


Plot 7-282. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

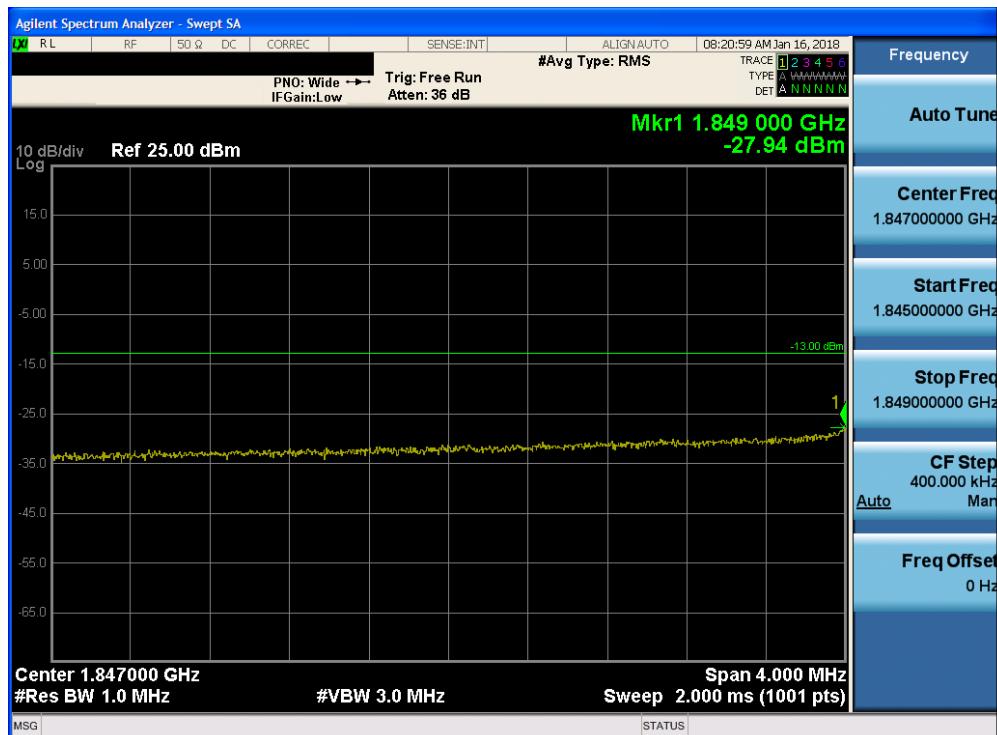


Plot 7-283. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 167 of 260

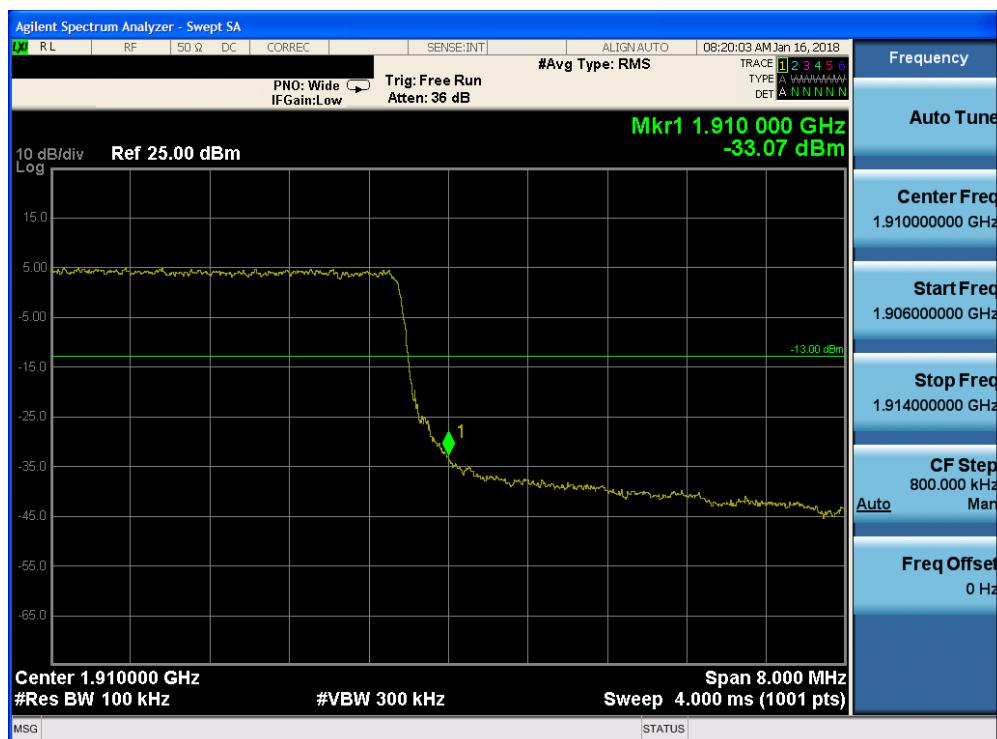


Plot 7-284. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

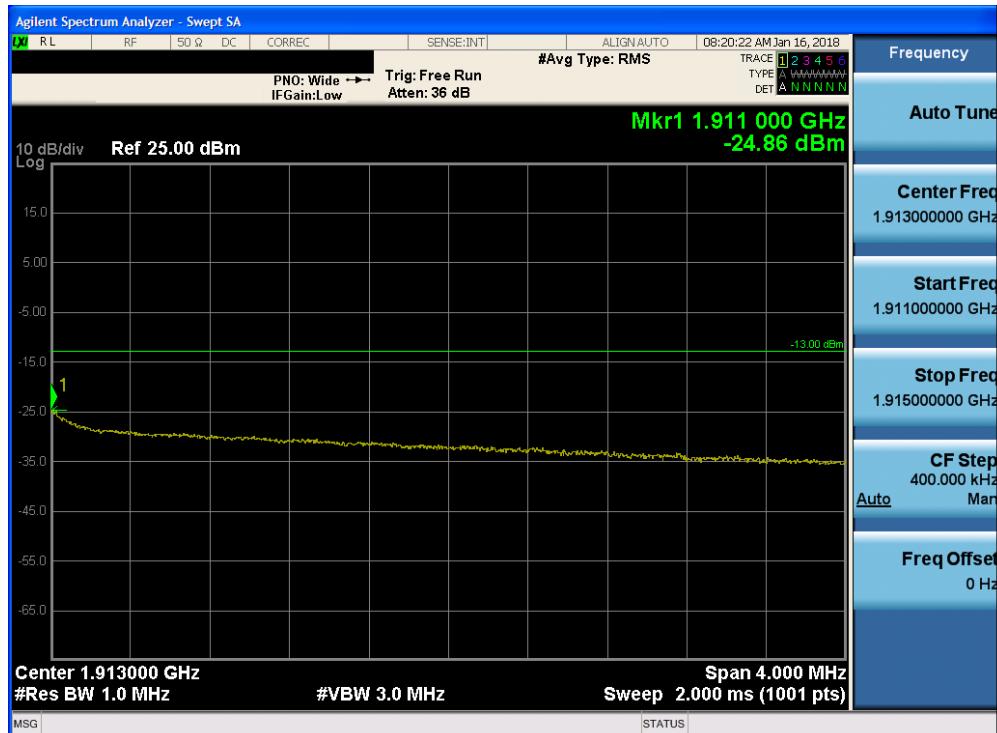


Plot 7-285. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 168 of 260

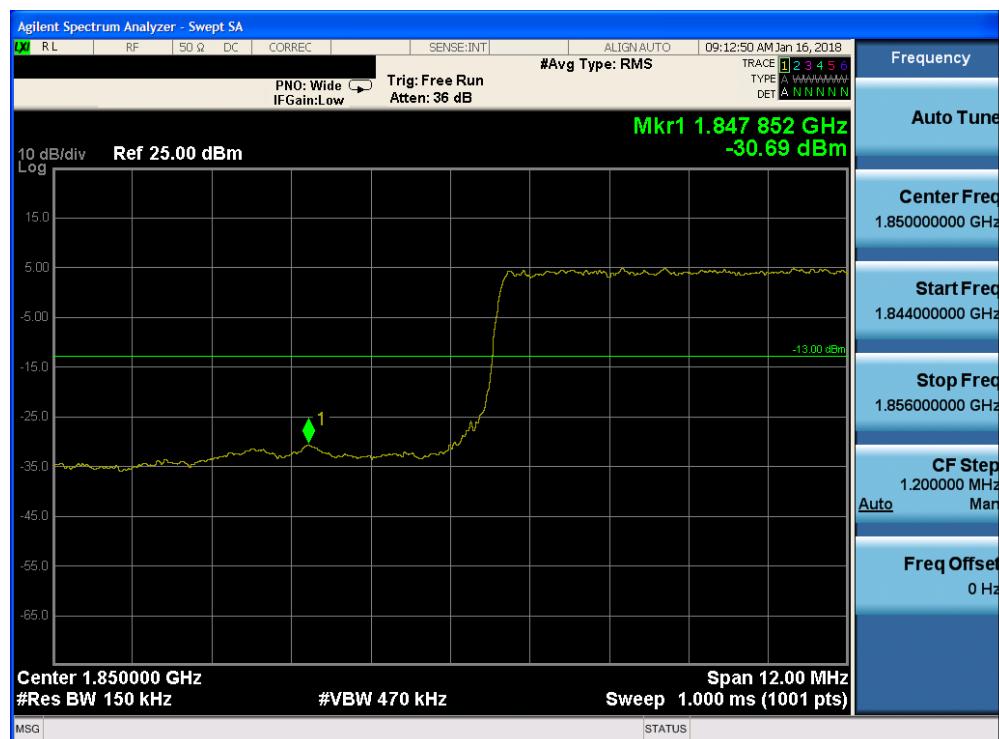


Plot 7-286. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-287. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 169 of 260

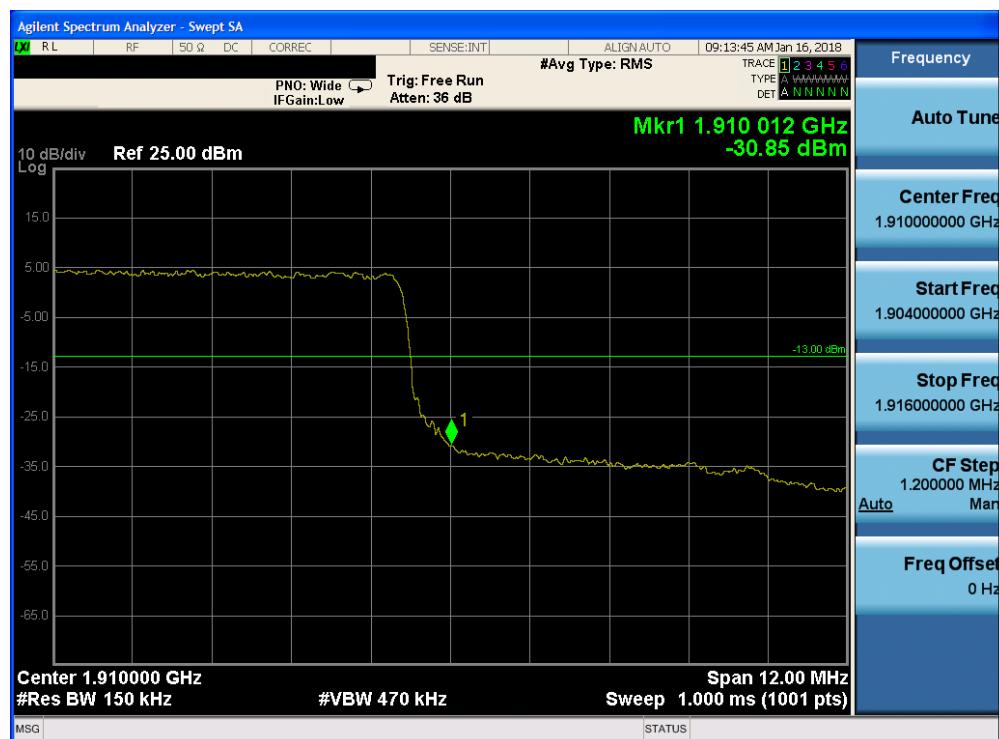


Plot 7-288. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-289. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 170 of 260



Plot 7-290. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-291. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 171 of 260

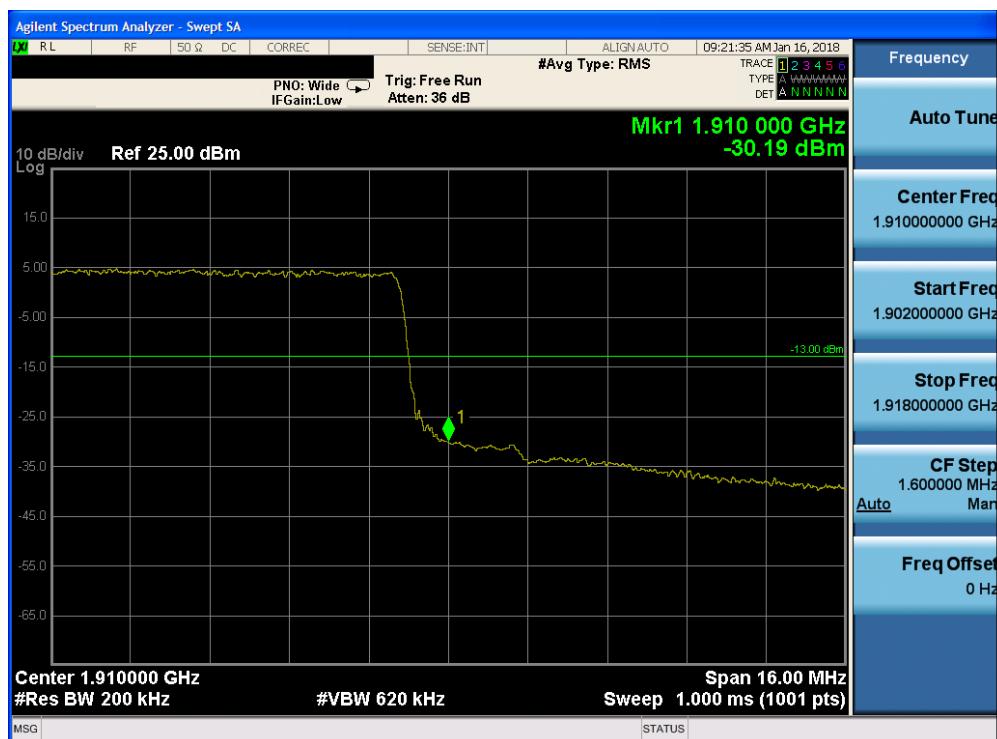


Plot 7-292. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-293. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 172 of 260



Plot 7-294. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-295. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 173 of 260

## Band 30



Plot 7-296. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

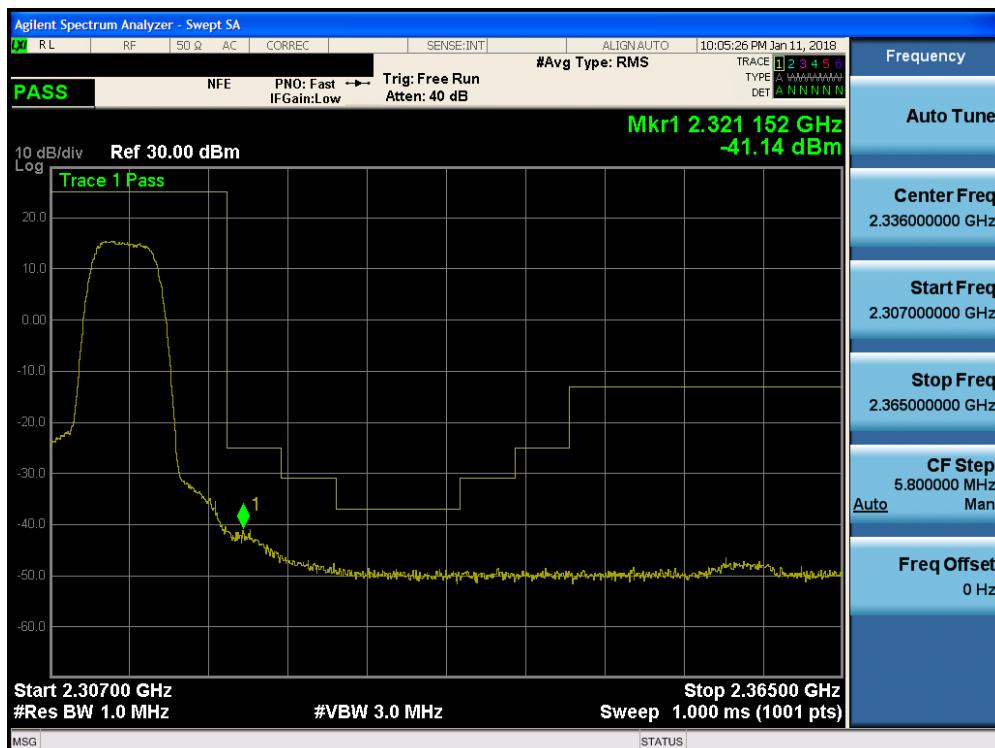


Plot 7-297. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 PCTEST Engineering Laboratory, Inc.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 174 of 260



Plot 7-298. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

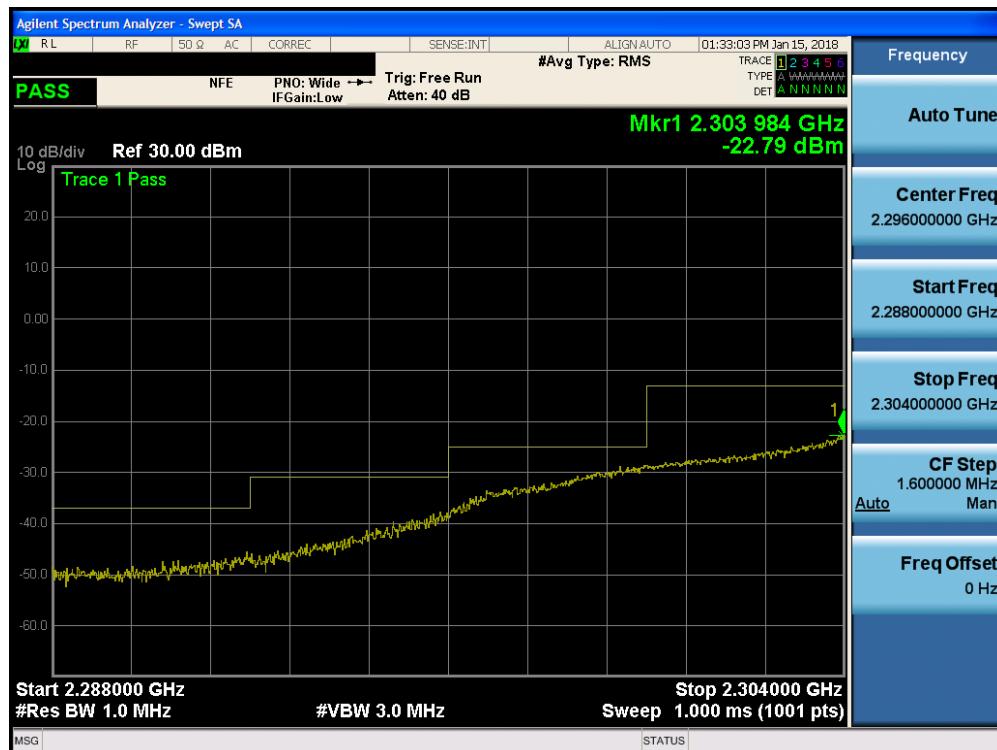


Plot 7-299. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-300. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

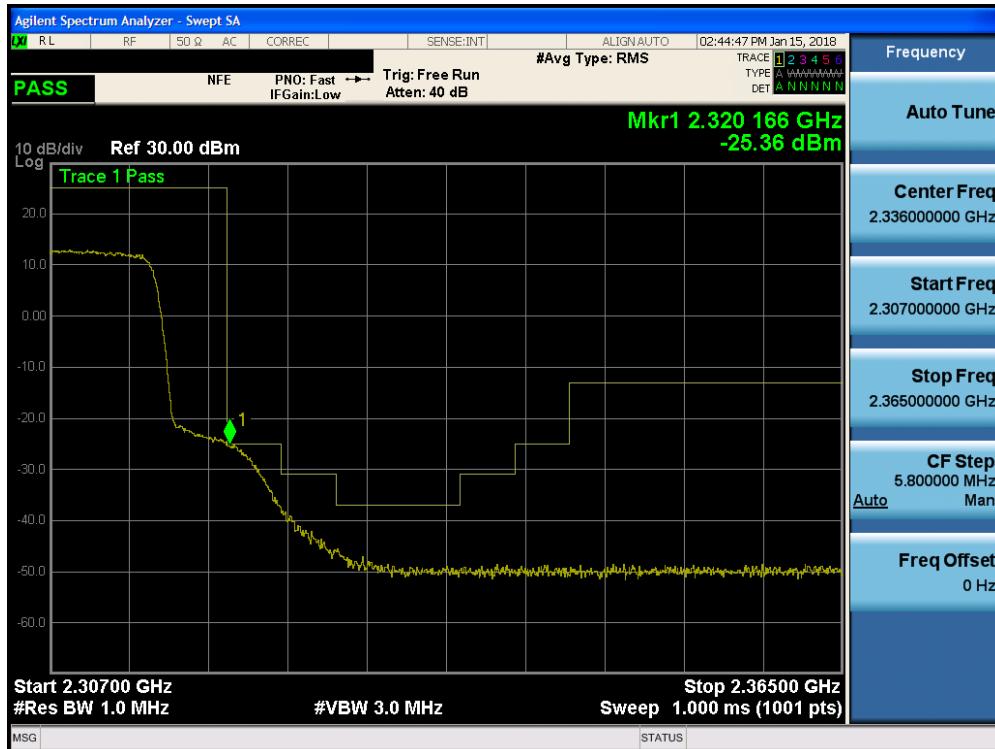


Plot 7-301. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 176 of 260



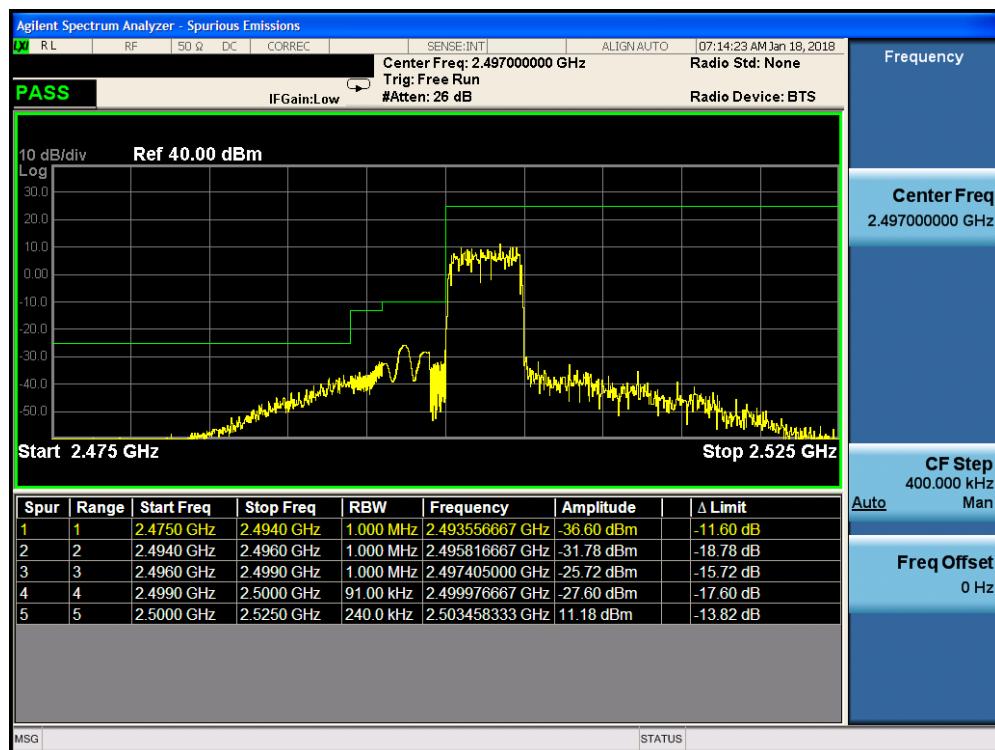
Plot 7-302. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-303. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 177 of 260

## Band 7

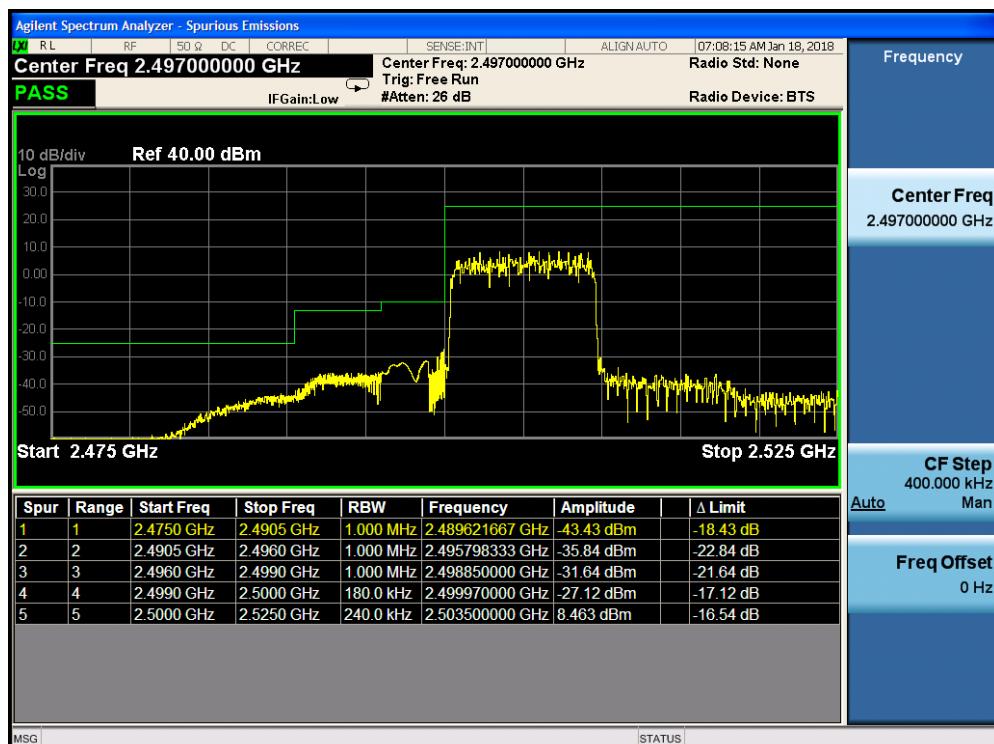


Plot 7-304. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-305. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 178 of 260	

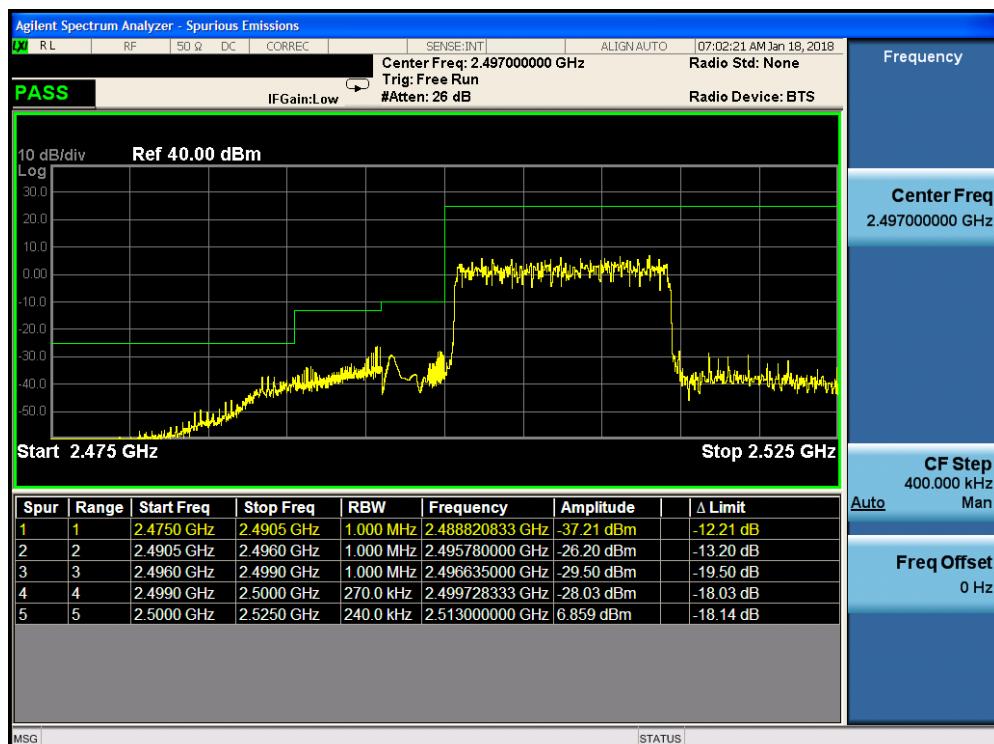


Plot 7-306. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

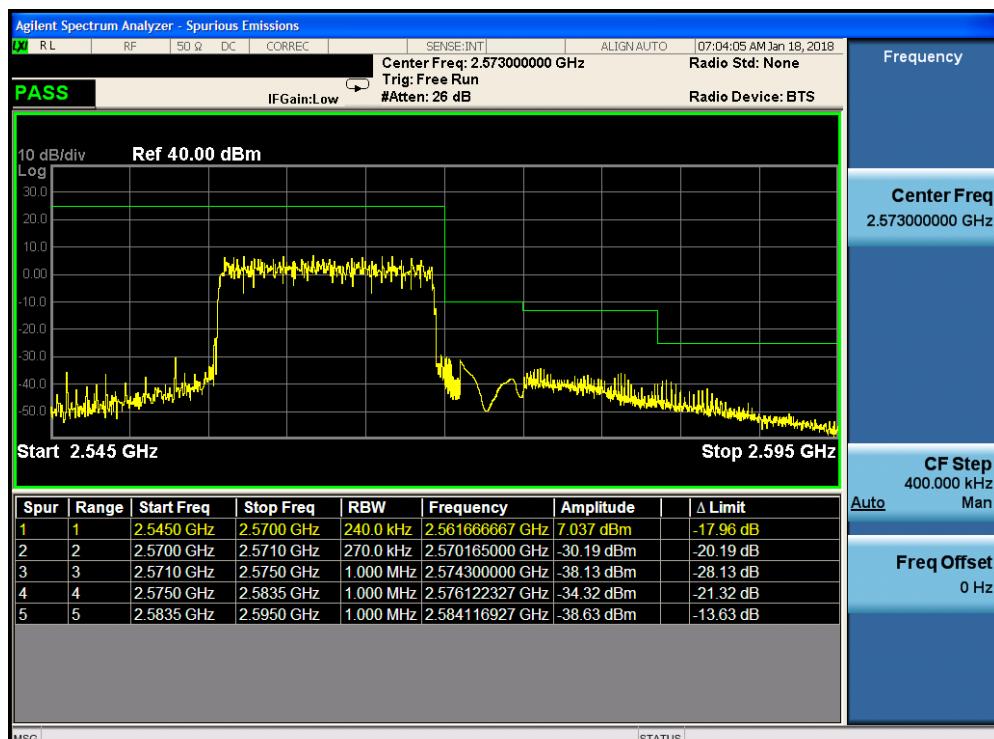


Plot 7-307. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 179 of 260



Plot 7-308. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-309. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 180 of 260



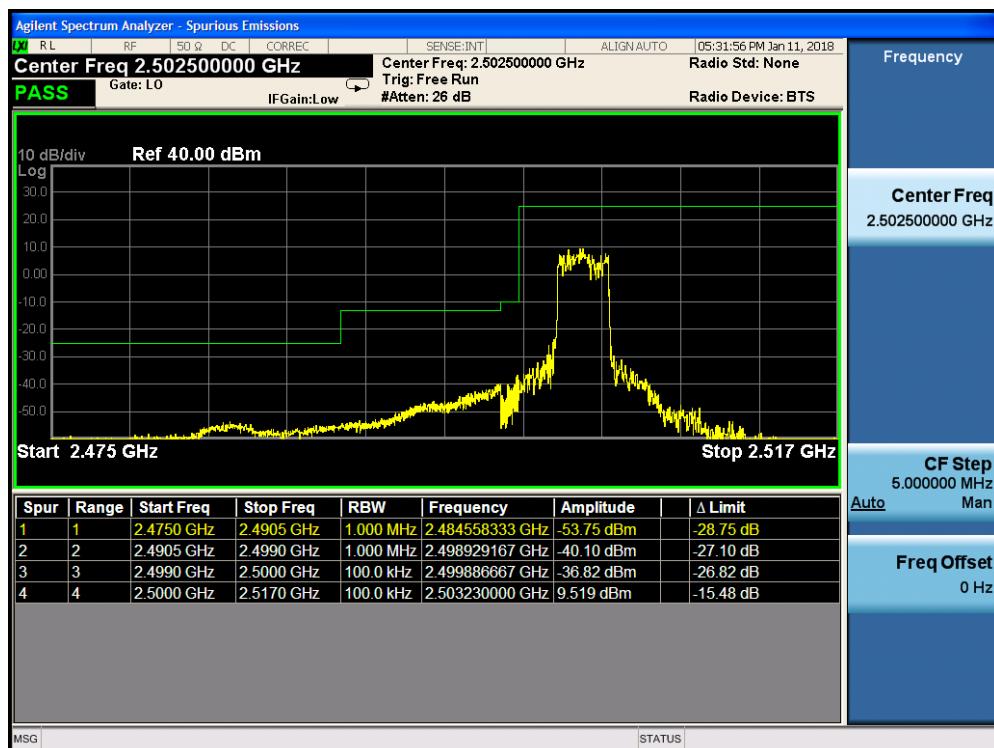
Plot 7-310. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-311. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1710060006-03-R2.BCG	Test Dates: 10/31/2017-2/15/2018	EUT Type: Tablet Device	Page 181 of 260

## Band 41



Plot 7-312. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-313. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-314. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-315. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-316. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-317. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-318. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-319. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA1954	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 7.5 Peak-Average Ratio

§24.232(d) RSS-132(5.4) RSS-133(6.4) RSS-139(6.5)

### Test Overview

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

### Test Procedure Used

KDB 971168 D01 v03 – Sections 5.7.1, 5.7.2  
 ANSI C63.26-2015 – Section 5.2.3, 5.2.4, 5.2.6

### Test Settings

#### **Emission Band Width $\leq$ 10MHz:**

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

#### **Emission Band Width $\geq$ 10MHz**

Some regulatory requirements specify a Peak-to-Average Power Ratio limit when the output power limits are specified in terms of average power. If it becomes necessary to provide measurement data to demonstrate compliance to a Peak-to-Average Power Ratio limit, then the appropriate procedures were followed described in ANSI C63.26 to determine the Peak PSD and the Average PSD). The data from these measurements is then used in the following equation,

Peak-to-Average Power Ratio (dB) = PPk (dBm) – PAvg (dBm)

Where,

PPk = peak PSD level (dBm)

PAvg= average PSD level (dBm)

FCC ID: BCGA1954	 <b>PCTEST</b> <small>Engineering Laboratory, Inc.</small>		MEASUREMENT REPORT <small>(CERTIFICATION)</small>	Approved by: <small>Quality Manager</small>
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