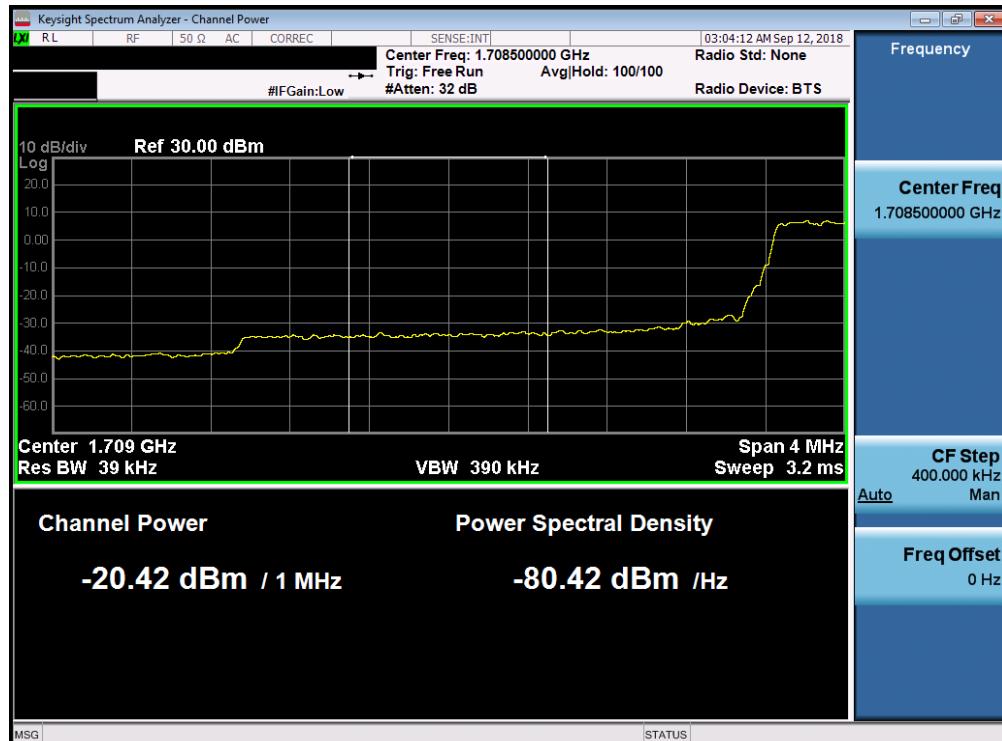


Plot 7-227. Lower Band Edge Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

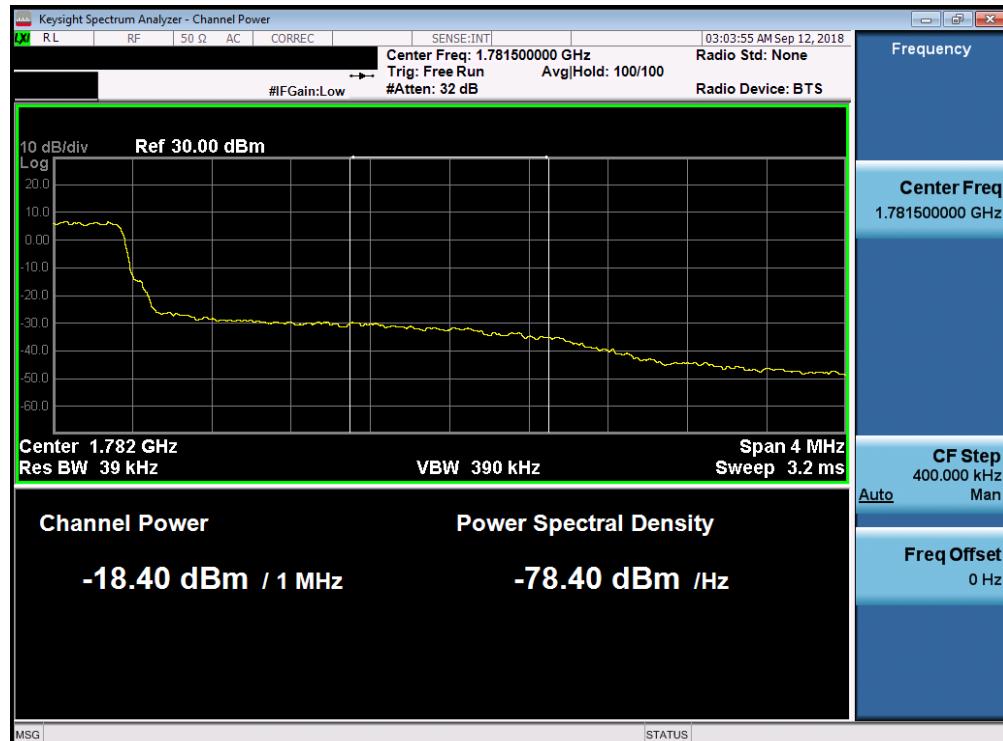


Plot 7-228. Lower Extended Band Edge Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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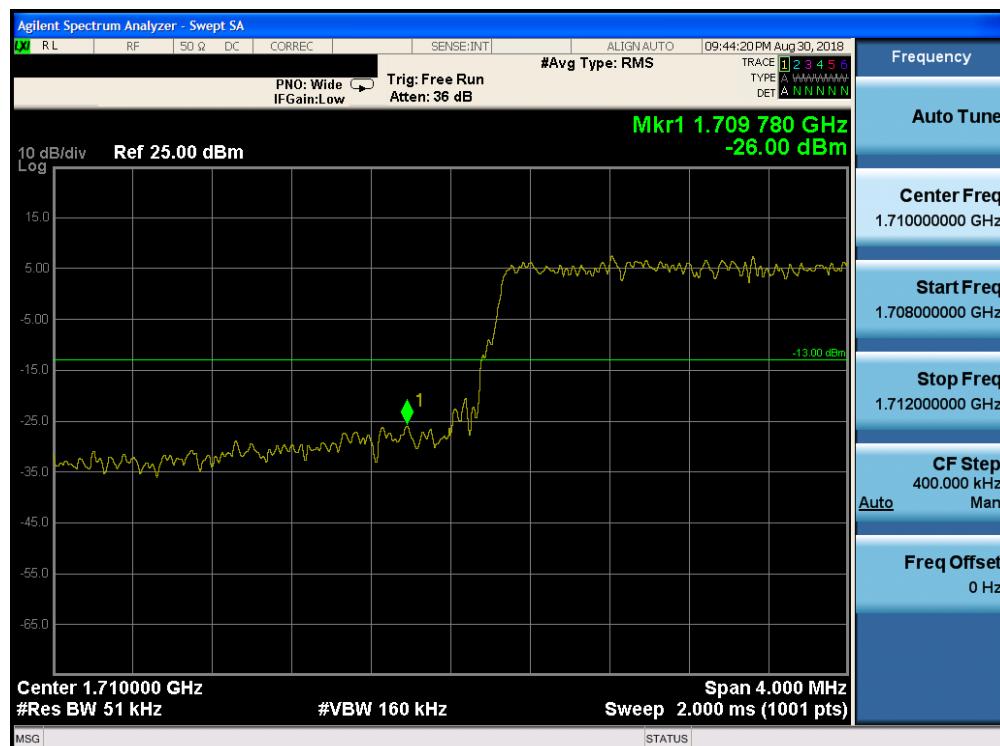


Plot 7-229. Upper Band Edge Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

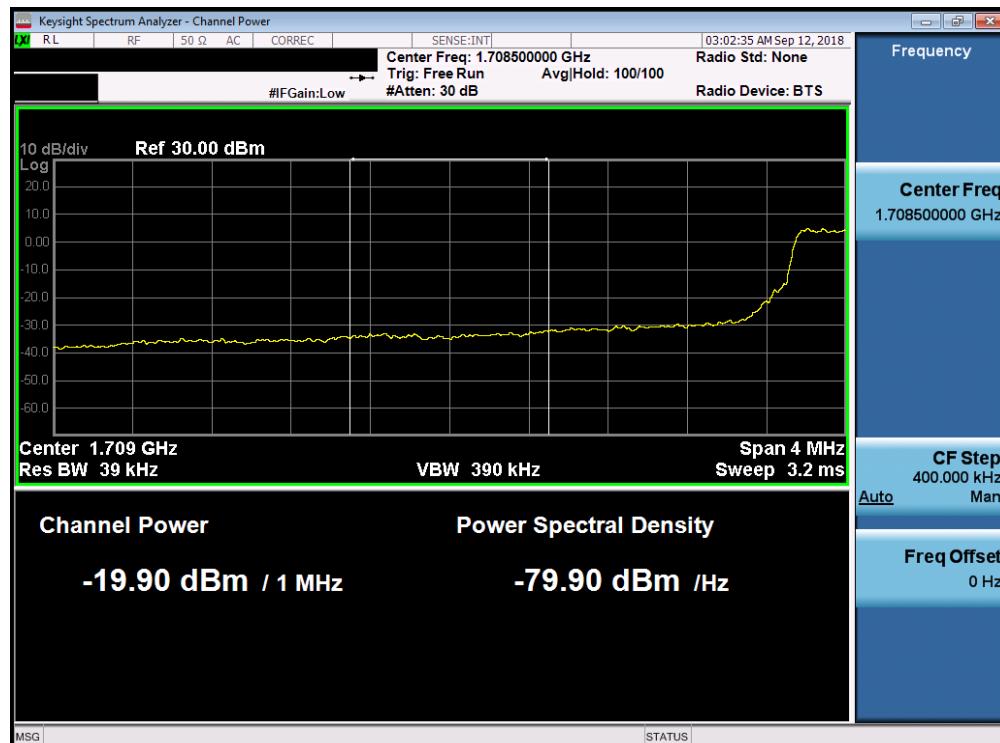


Plot 7-230. Upper Extended Band Edge Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 140 of 370



Plot 7-231. Lower Band Edge Plot (Band 66 – 5.0MHz QPSK – RB Size 25)

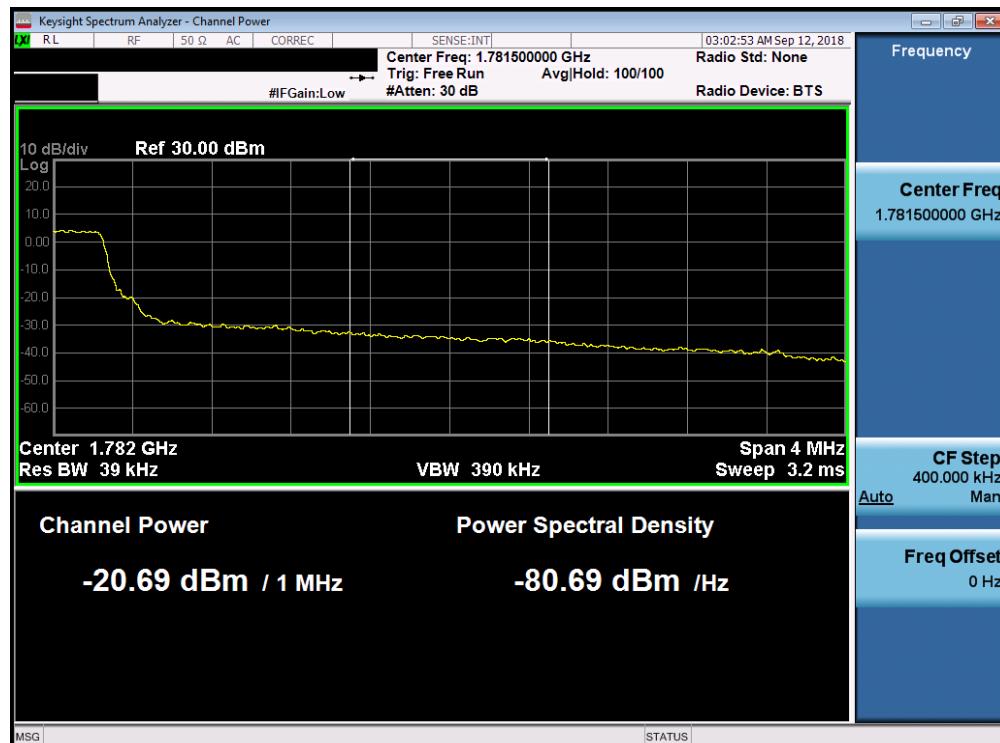


Plot 7-232. Lower Extended Band Edge Plot (Band 66 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 141 of 370

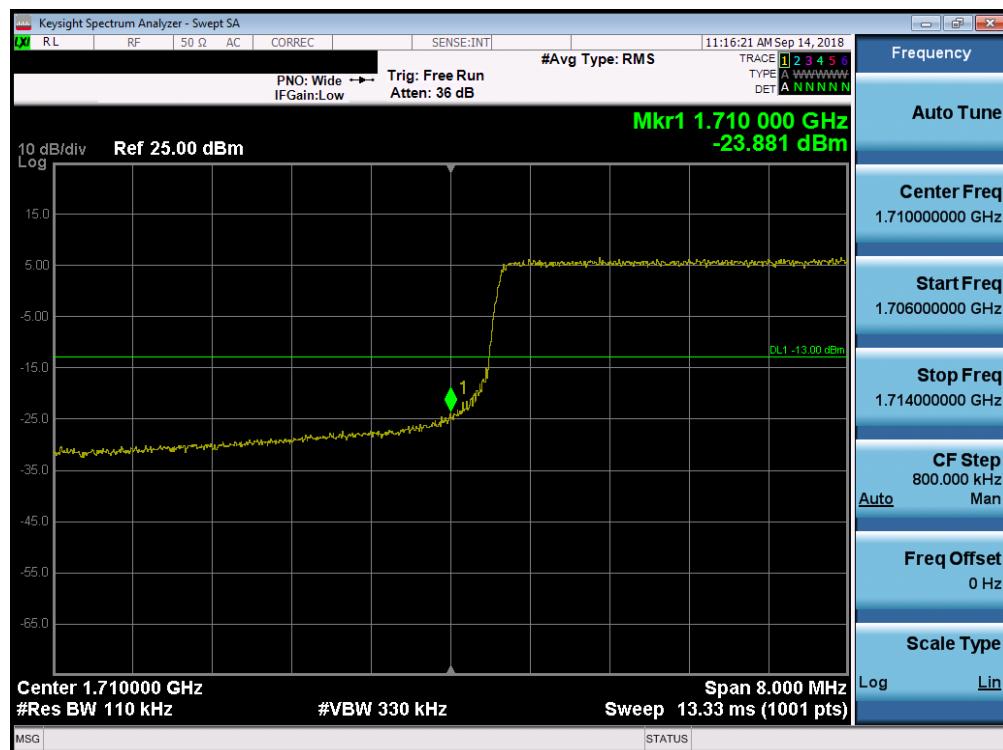


Plot 7-233. Upper Band Edge Plot (Band 66 – 5.0MHz QPSK – RB Size 25)

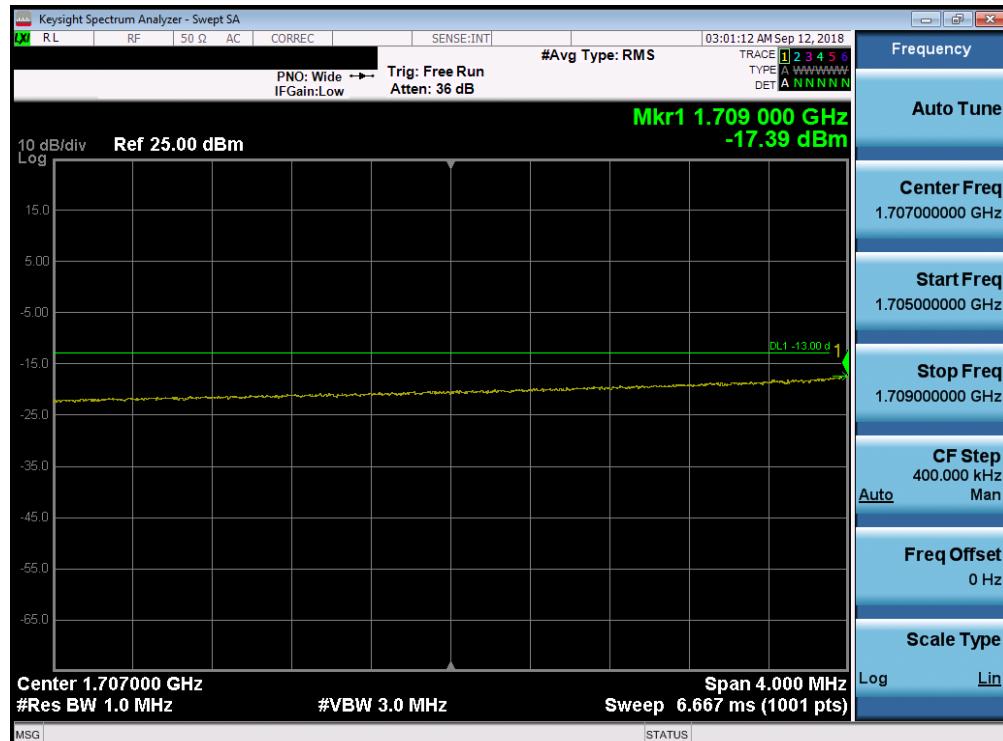


Plot 7-234. Upper Extended Band Edge Plot (Band 66 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-235. Lower Band Edge Plot (Band 66 – 10.0MHz QPSK – RB Size 50)

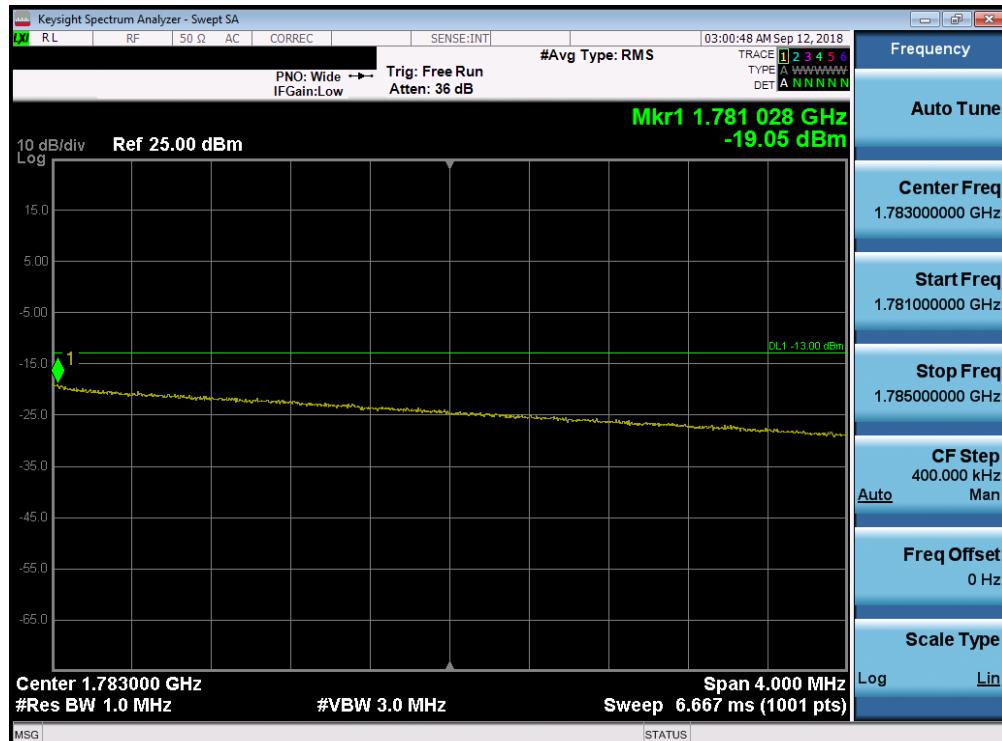


Plot 7-236. Lower Extended Band Edge Plot (Band 66 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 143 of 370



Plot 7-237. Upper Band Edge Plot (Band 66 – 10.0MHz QPSK – RB Size 50)

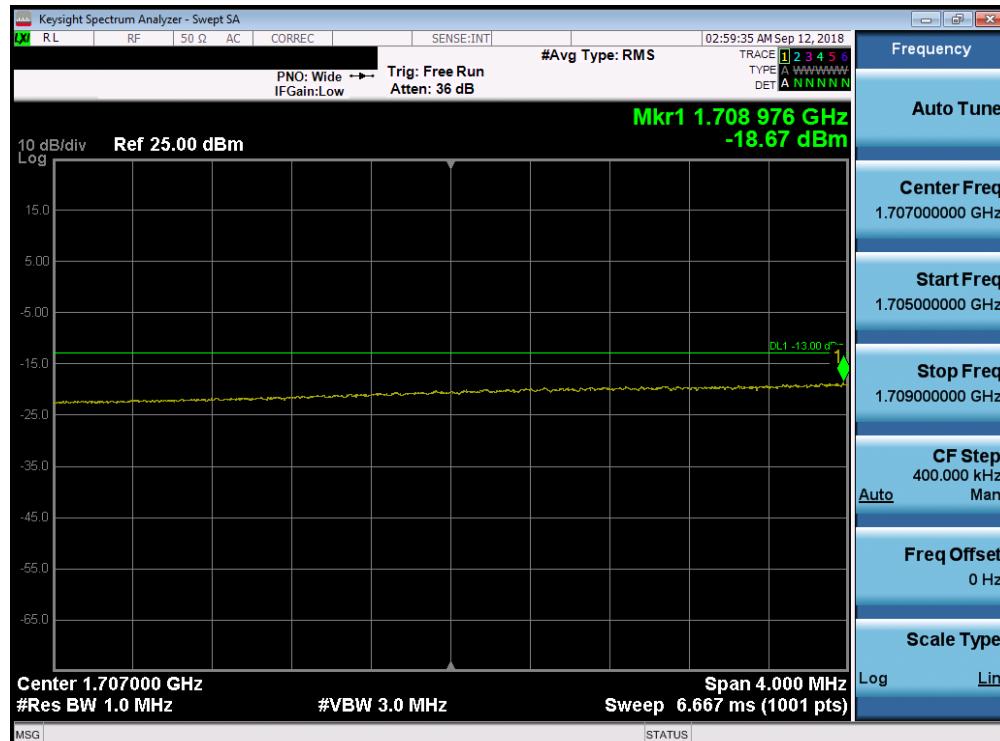


Plot 7-238. Upper Extended Band Edge Plot (Band 66 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 144 of 370



Plot 7-239. Lower Band Edge Plot (Band 66 – 15.0MHz QPSK – RB Size 75)



Plot 7-240. Lower Extended Band Edge Plot (Band 66 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 145 of 370

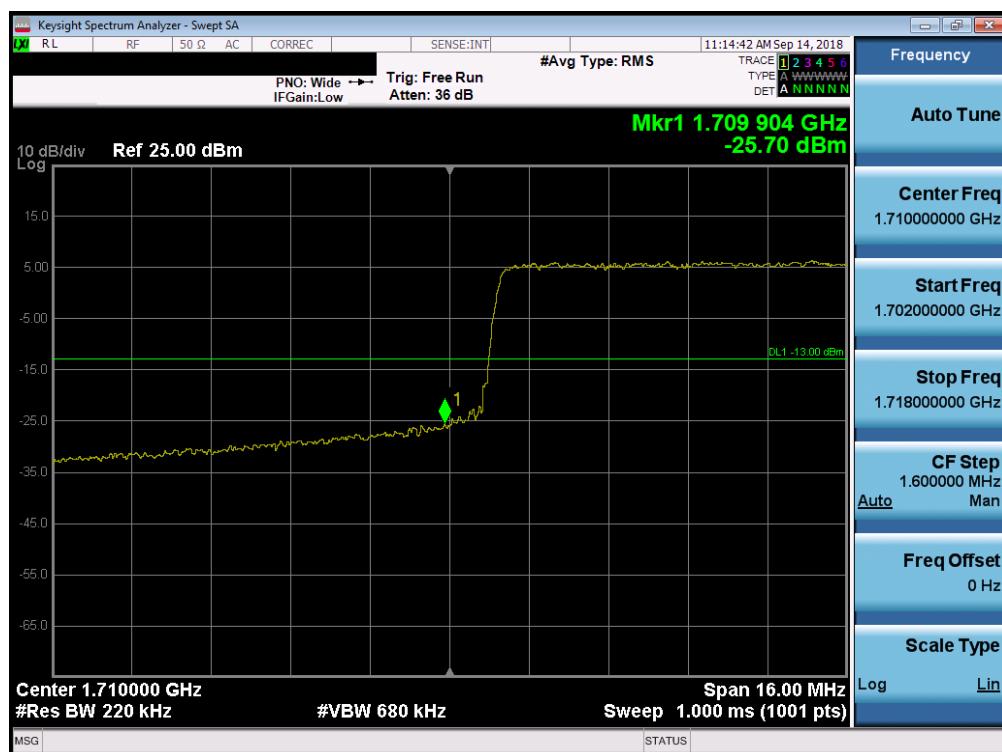


Plot 7-241. Upper Band Edge Plot (Band 66 – 15.0MHz QPSK – RB Size 75)

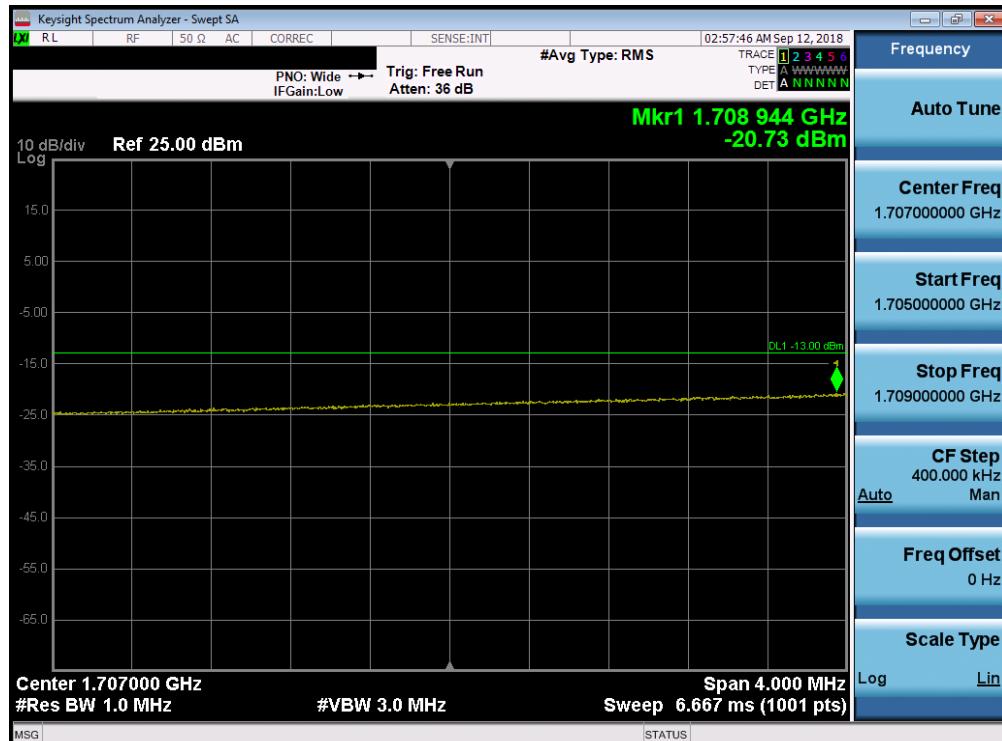


Plot 7-242. Upper Extended Band Edge Plot (Band 66 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 146 of 370



Plot 7-243. Lower Band Edge Plot (Band 66 – 20.0MHz QPSK – RB Size 100)

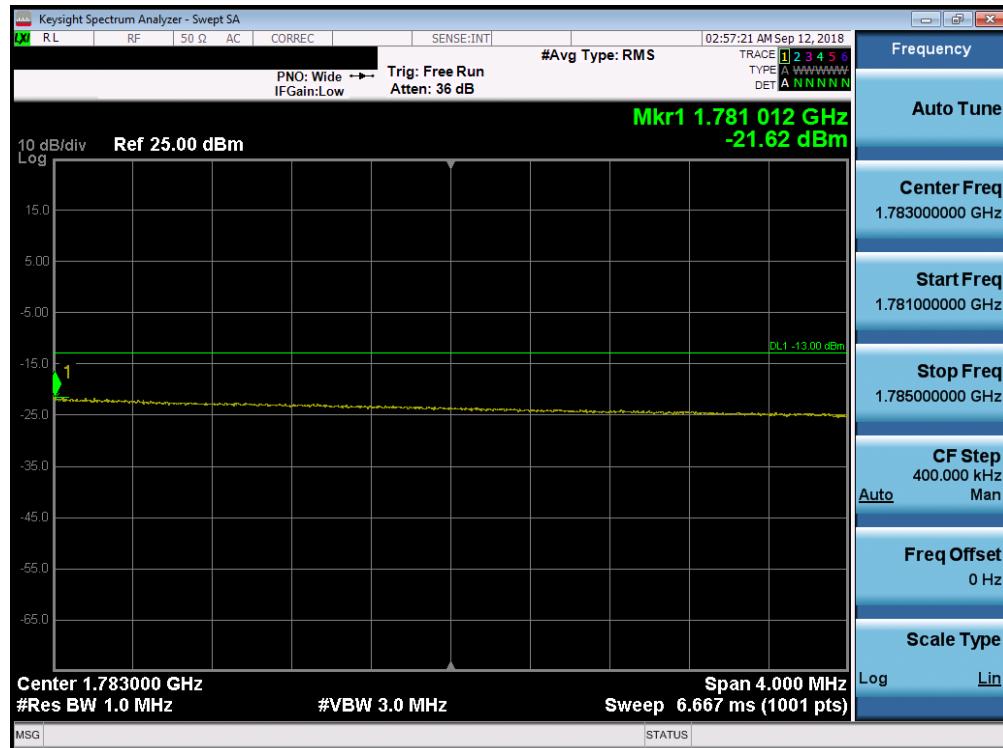


Plot 7-244. Lower Extended Band Edge Plot (Band 66 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 147 of 370



Plot 7-245. Upper Band Edge Plot (Band 66 – 20.0MHz QPSK – RB Size 100)



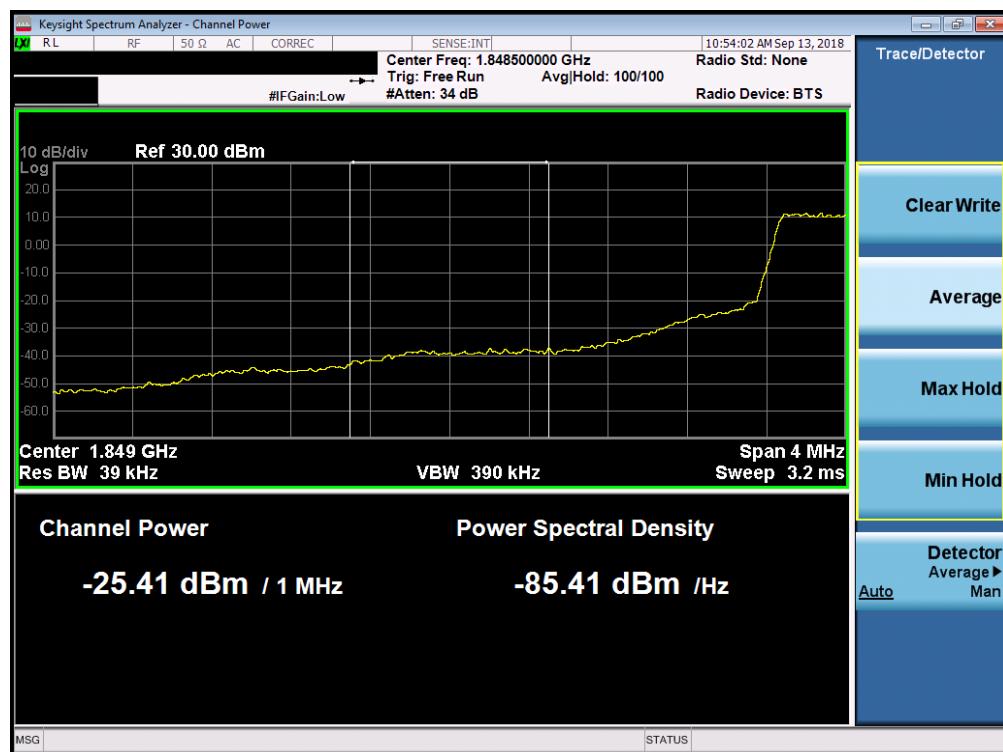
Plot 7-246. Upper Extended Band Edge Plot (Band 66 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 148 of 370

Band 2



Plot 7-247. Lower Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

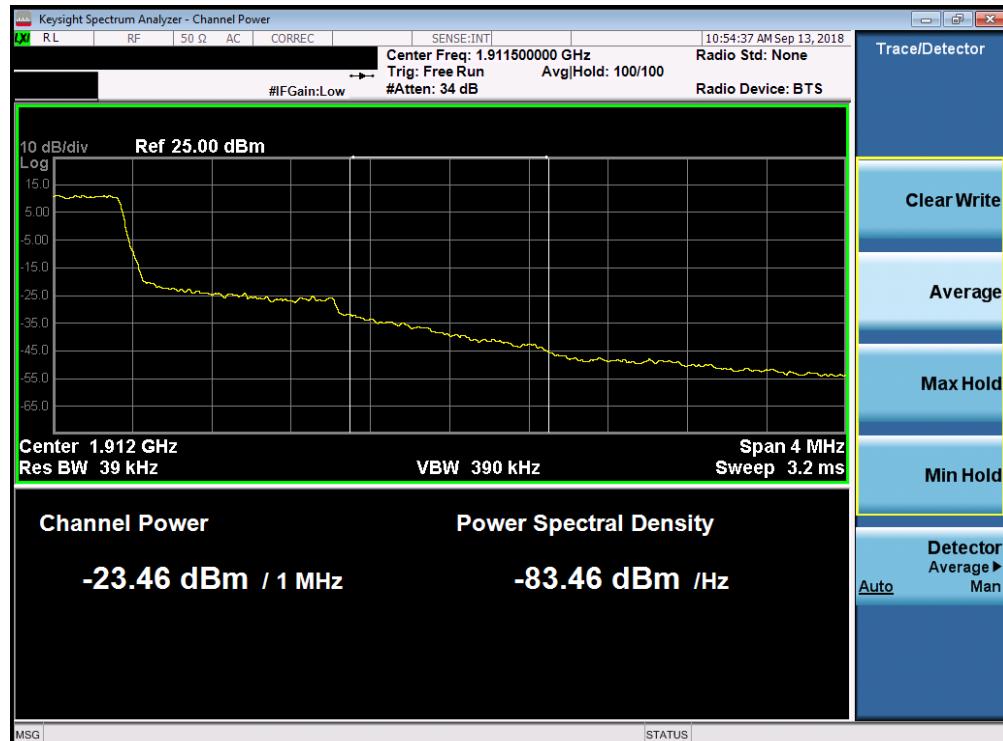


Plot 7-248. Lower Extended Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 149 of 370

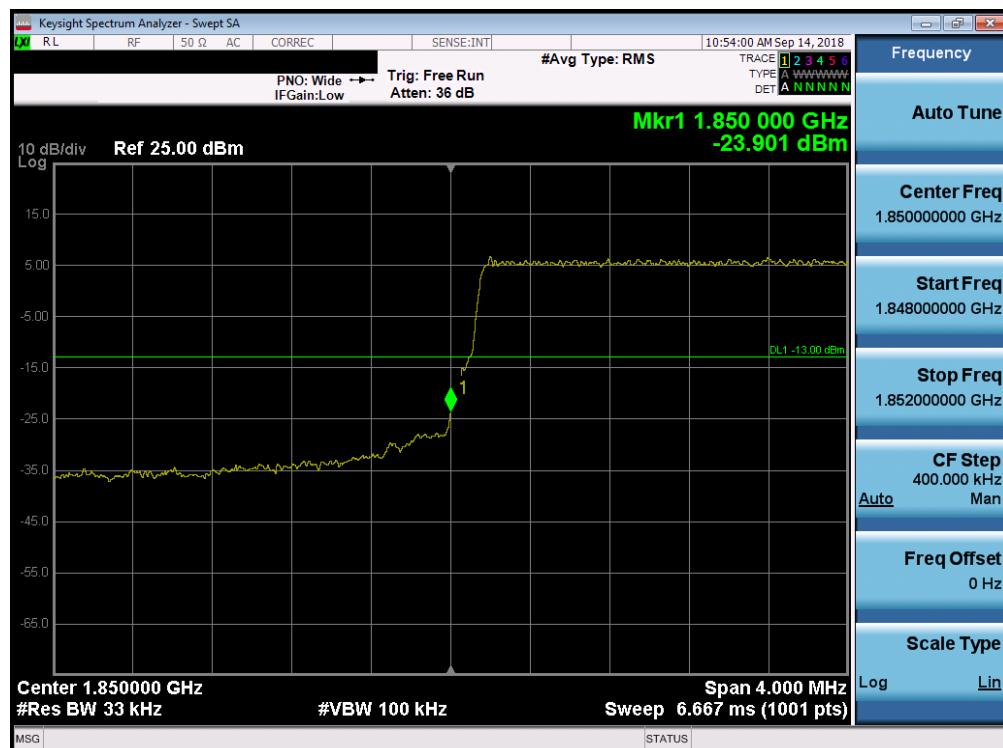


Plot 7-249. Upper Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

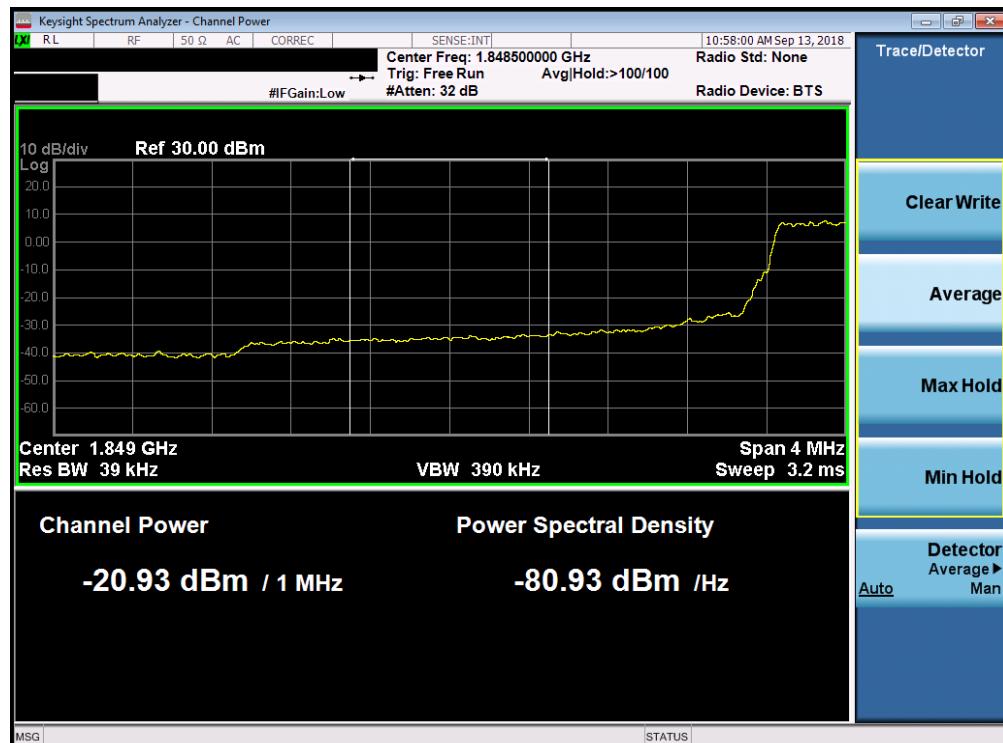


Plot 7-250. Upper Extended Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-251. Lower Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

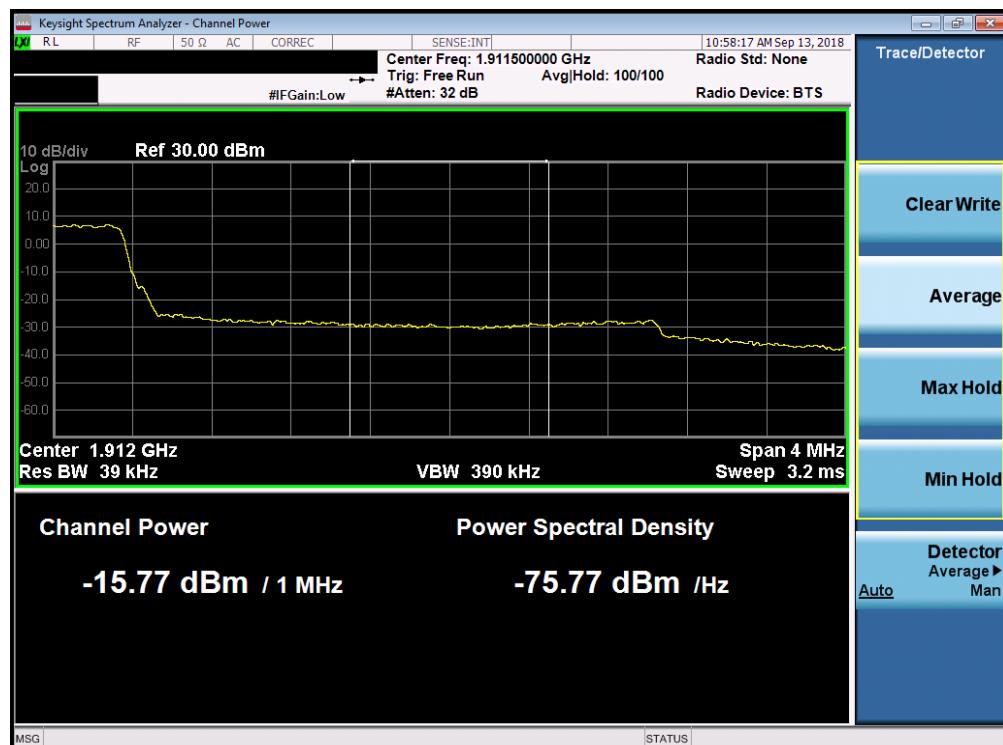


Plot 7-252. Lower Extended Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 151 of 370	

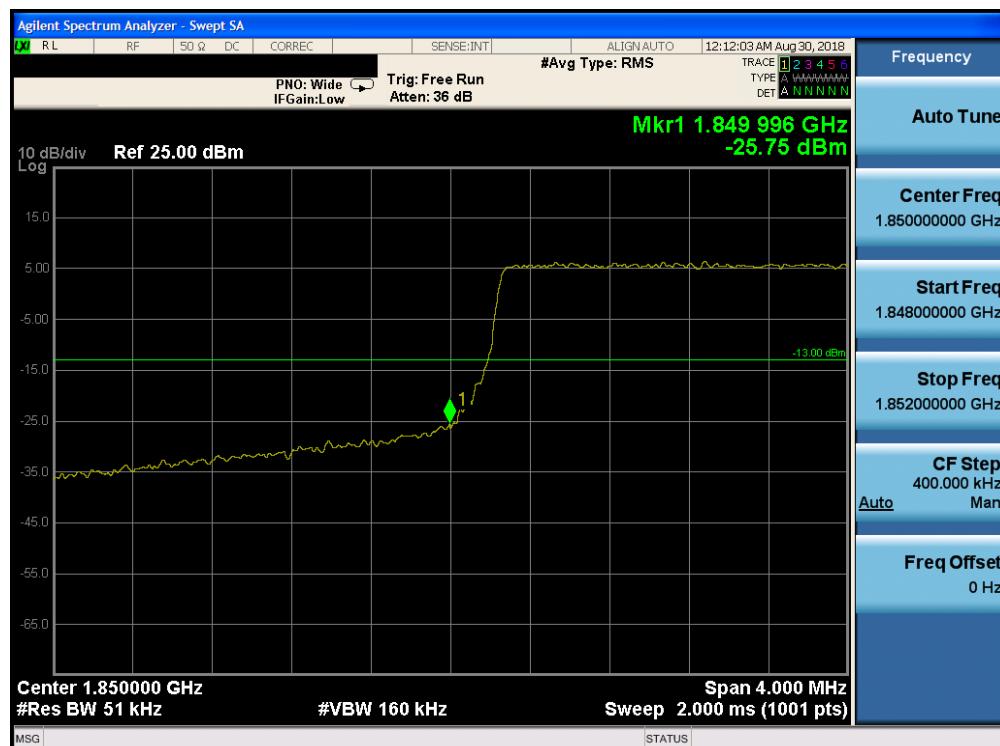


Plot 7-253. Upper Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

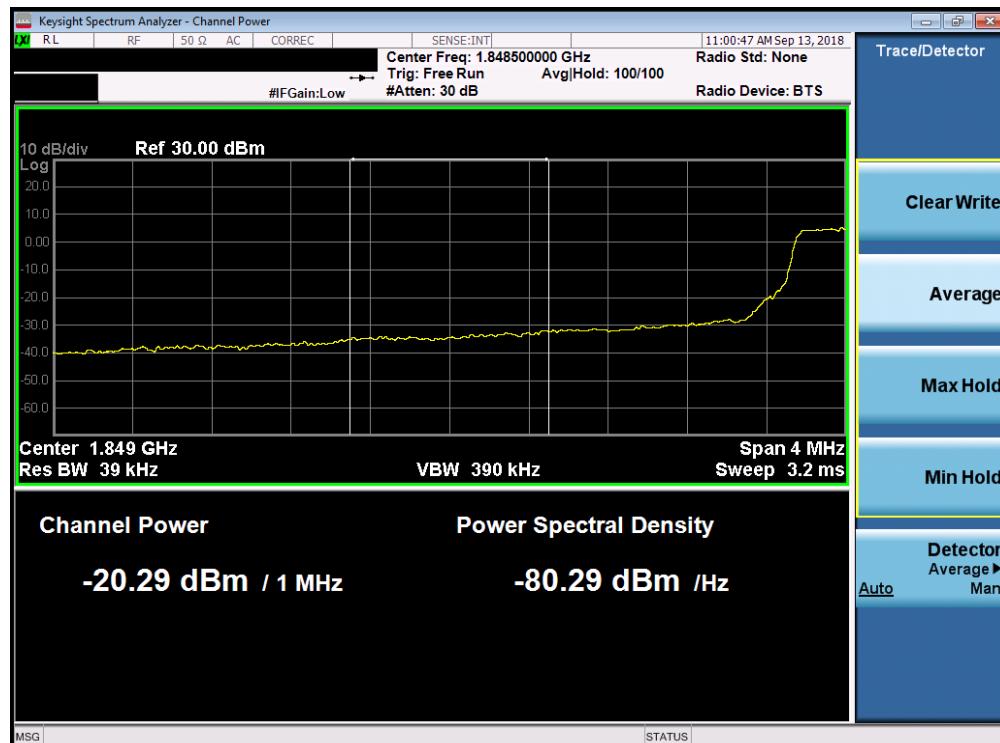


Plot 7-254. Upper Extended Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 152 of 370



Plot 7-255. Lower Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

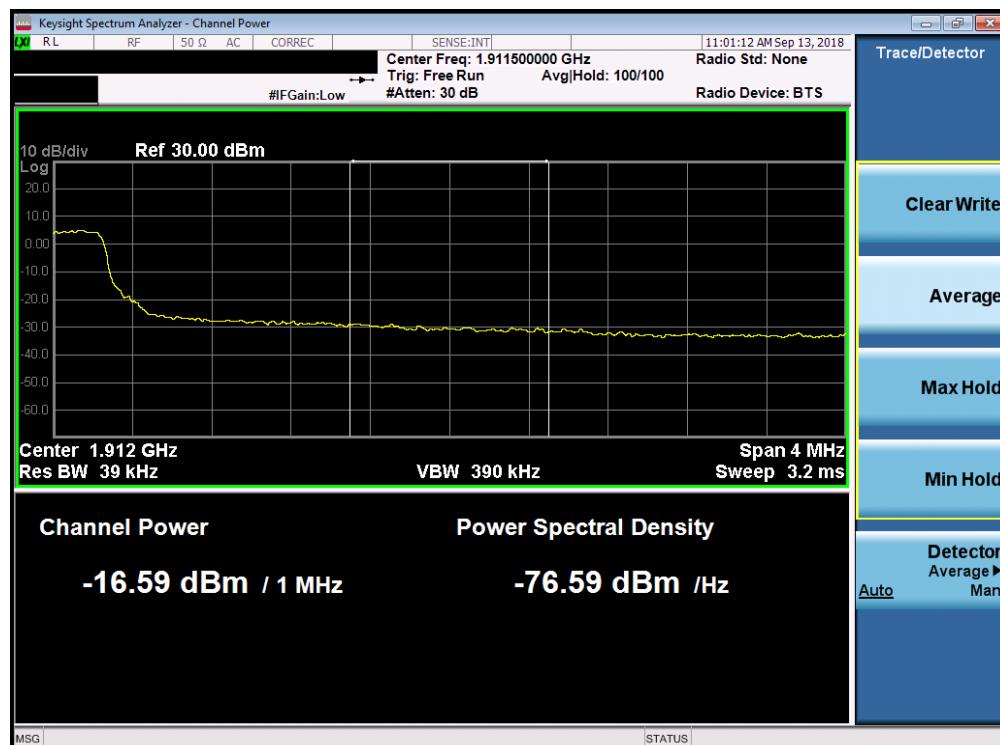


Plot 7-256. Lower Extended Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 153 of 370

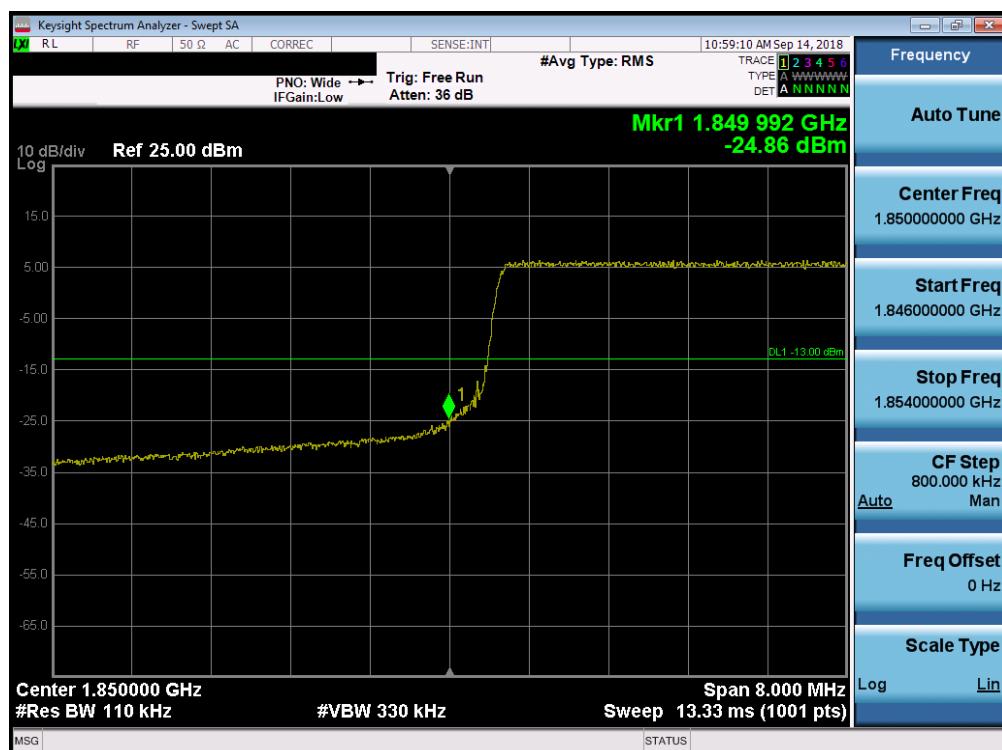


Plot 7-257. Upper Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

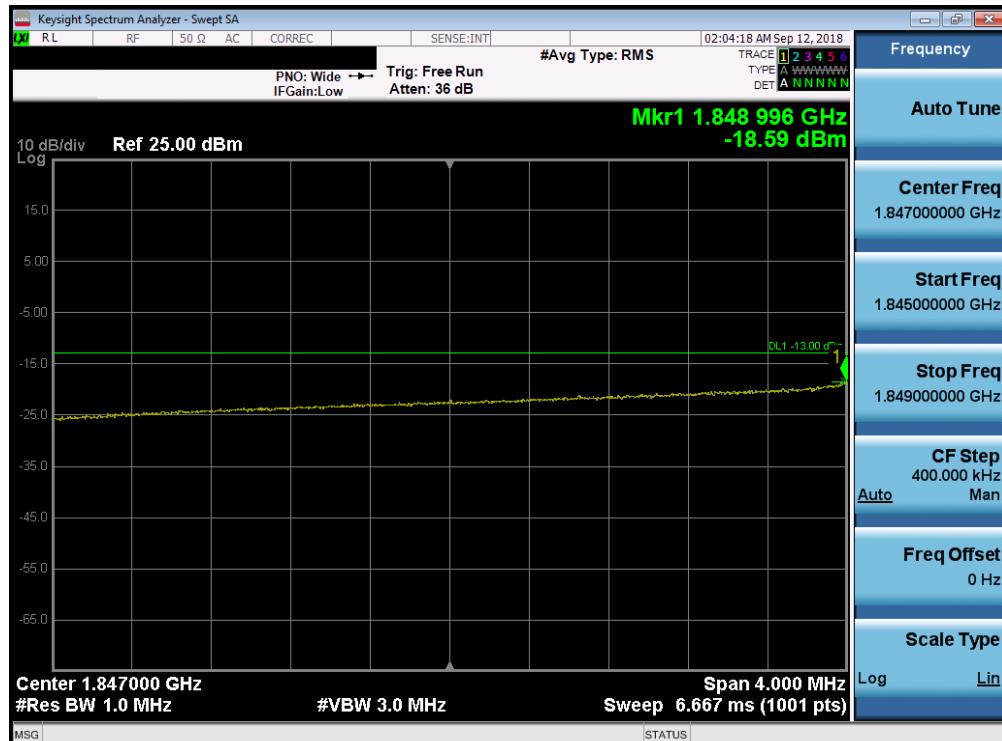


Plot 7-258. Upper Extended Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-259. Lower Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

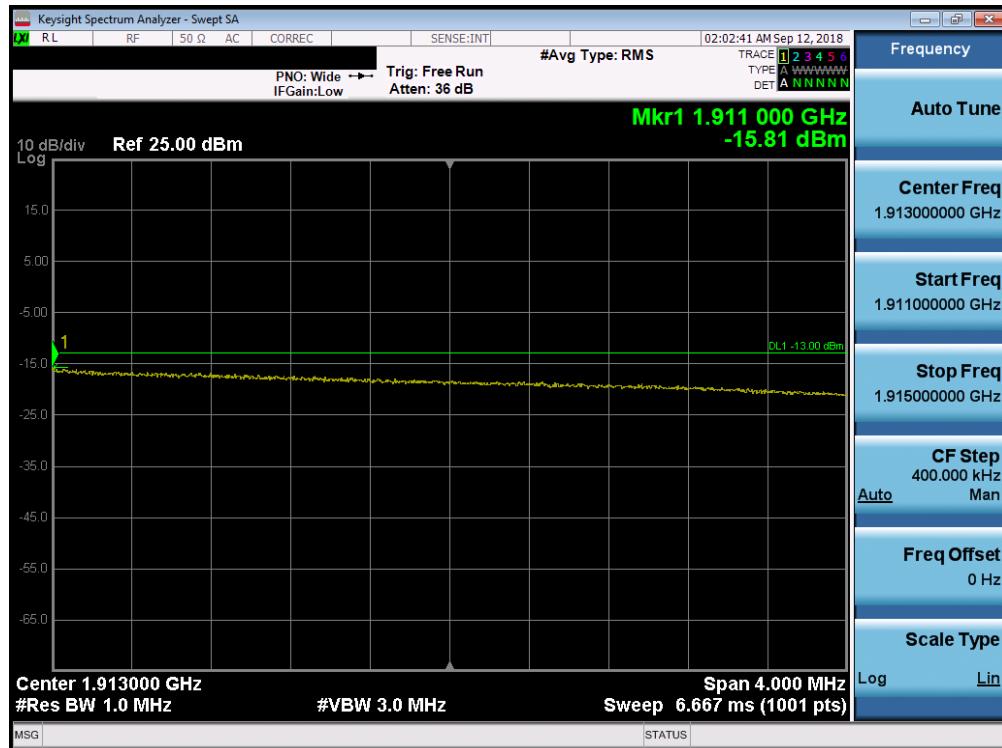


Plot 7-260. Lower Extended Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 155 of 370

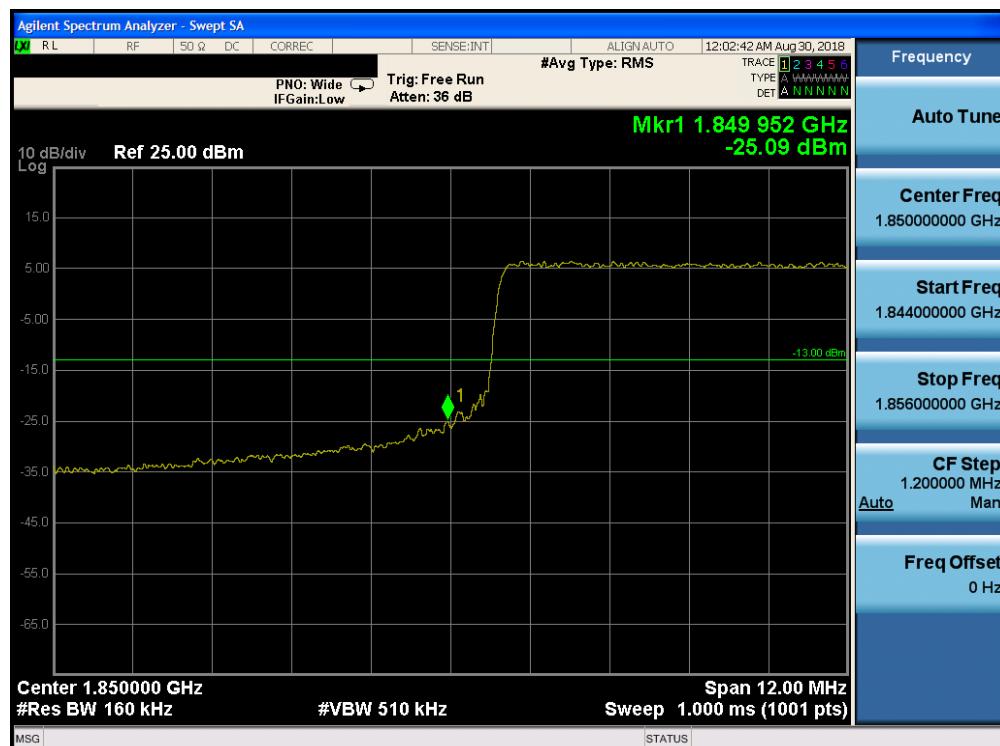


Plot 7-261. Upper Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

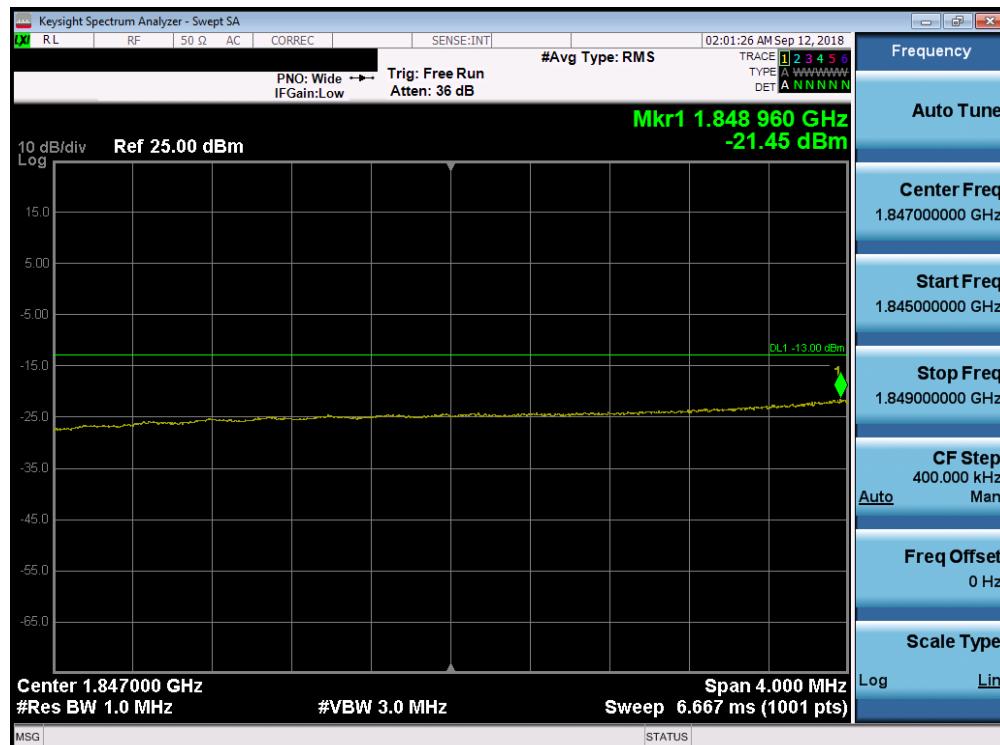


Plot 7-262. Upper Extended Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 156 of 370

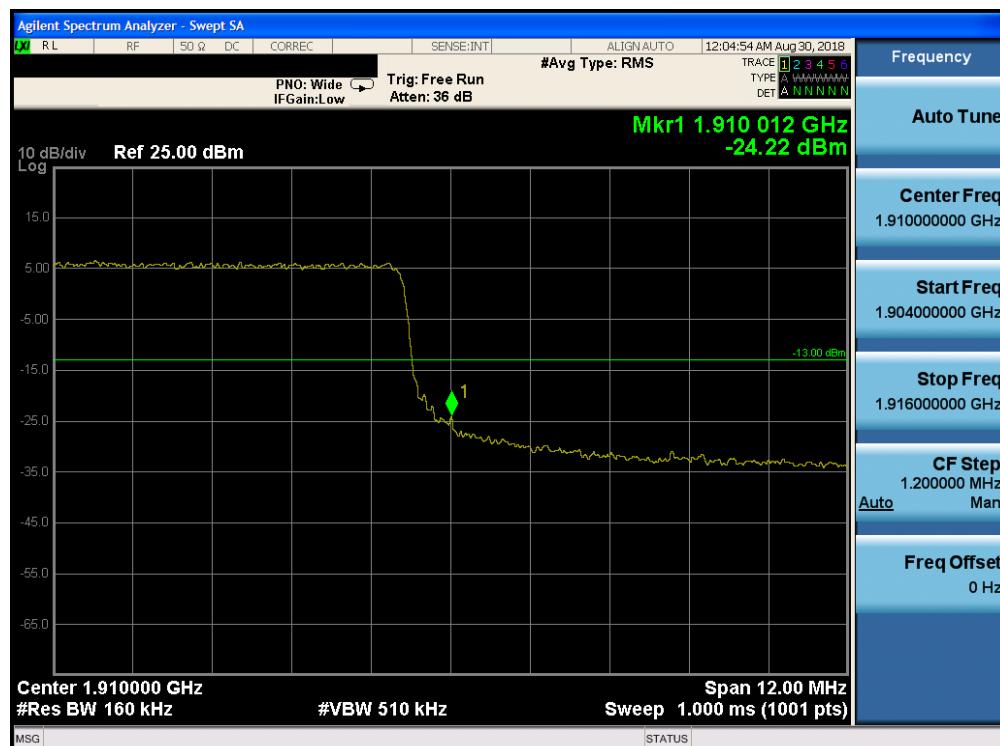


Plot 7-263. Lower Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

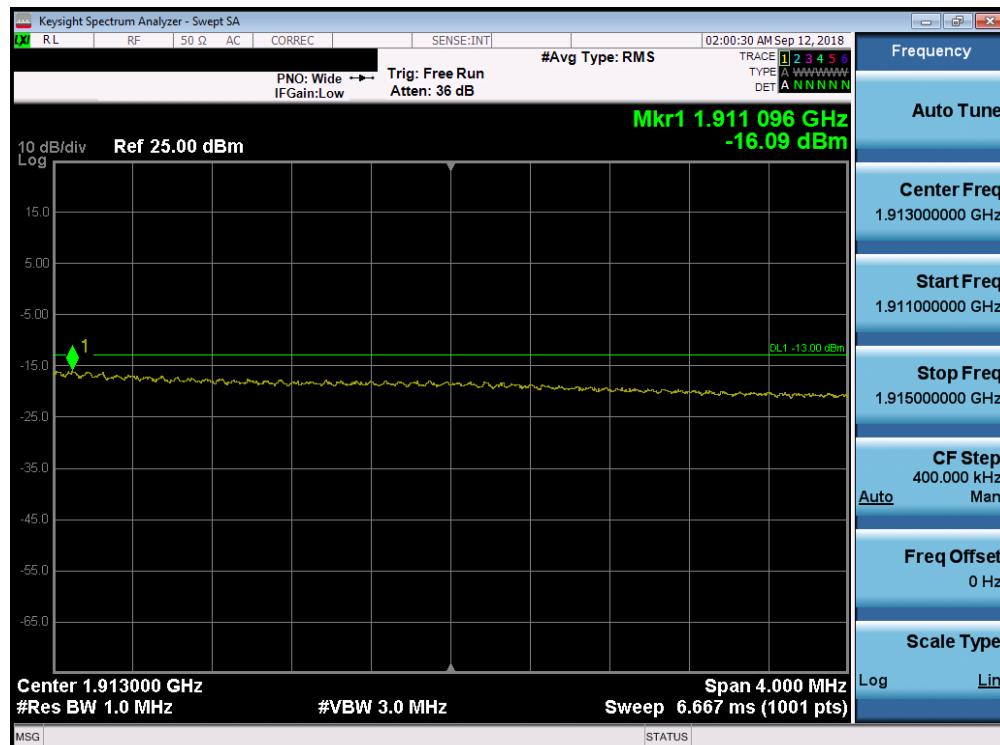


Plot 7-264. Lower Extended Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 157 of 370

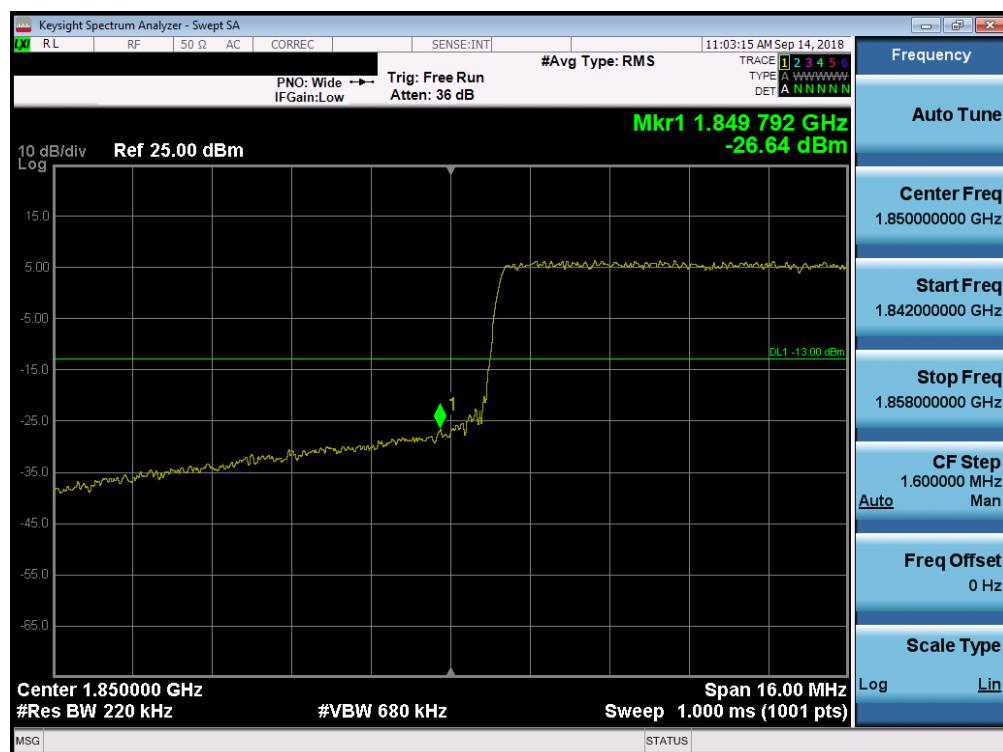


Plot 7-265. Upper Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

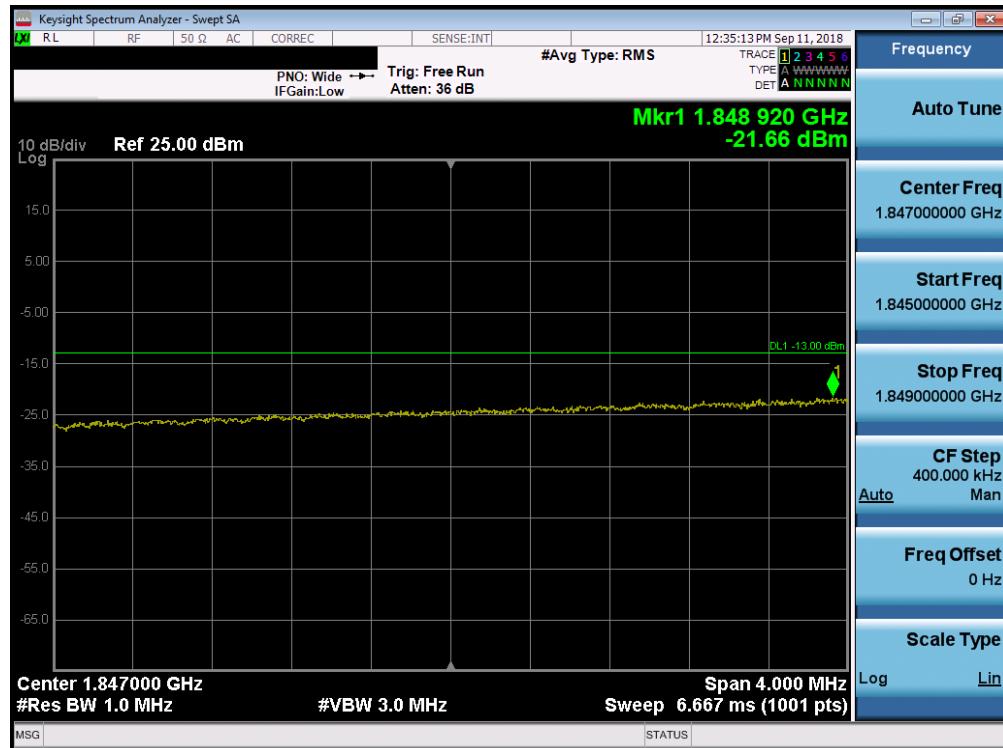


Plot 7-266. Upper Extended Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 158 of 370



Plot 7-267. Lower Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

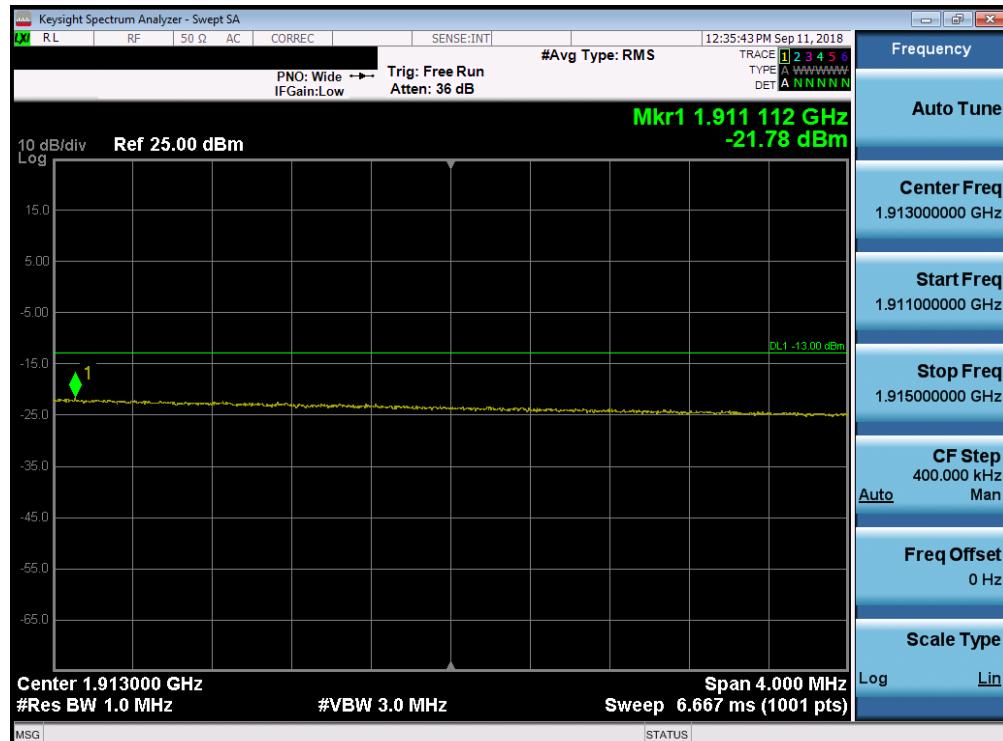


Plot 7-268. Lower Extended Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 159 of 370



Plot 7-269. Upper Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)



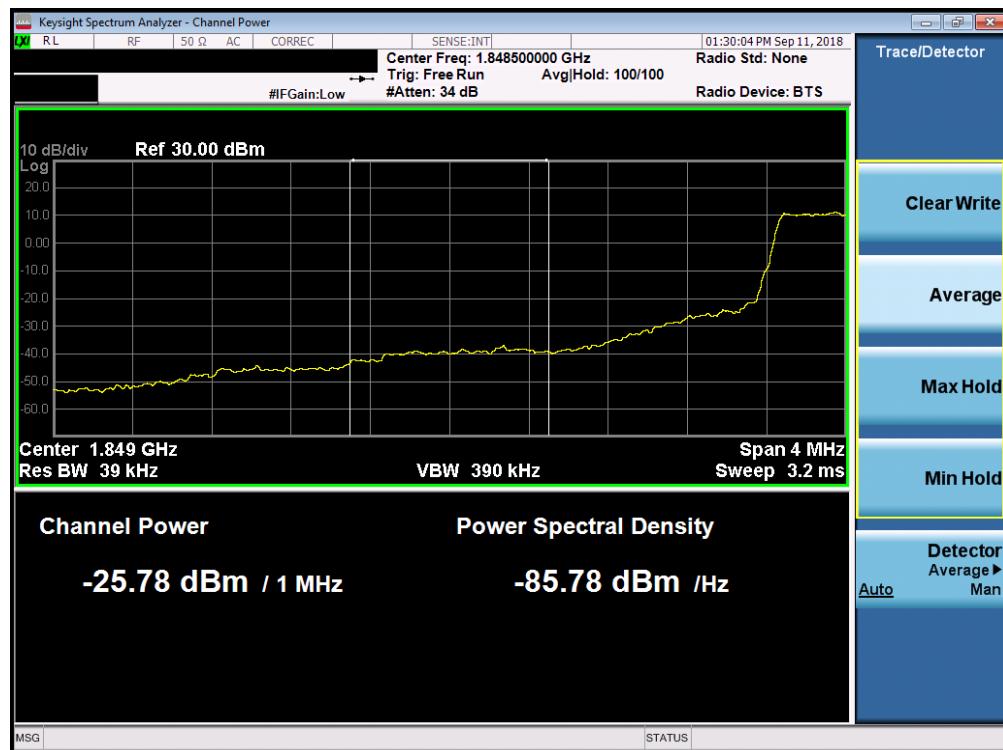
Plot 7-270. Upper Extended Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 160 of 370

Band 25



Plot 7-271. Lower Band Edge Plot (Band 25 – 1.4MHz QPSK – RB Size 6)

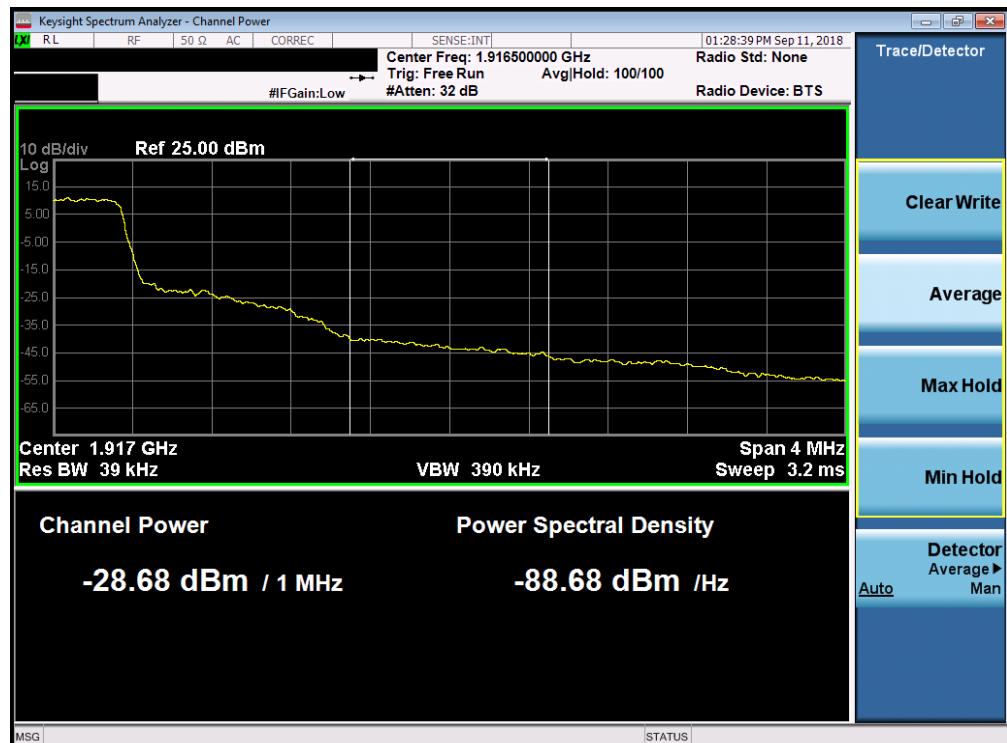


Plot 7-272. Lower Extended Band Edge Plot (Band 25 – 1.4MHz QPSK – RB Size 6)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 161 of 370

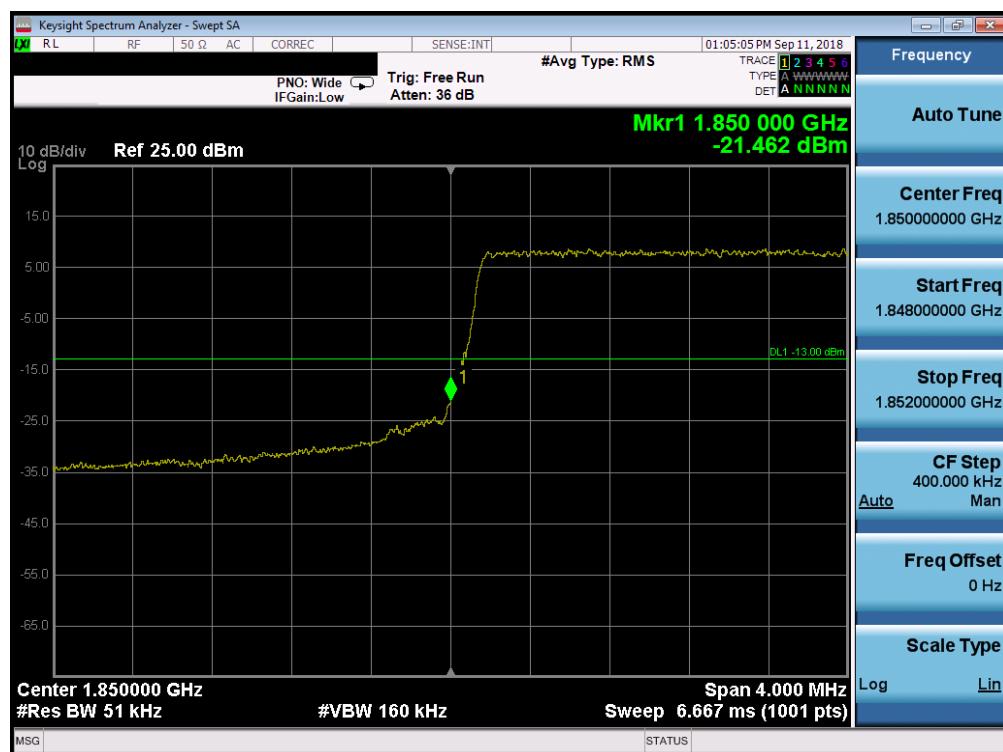


Plot 7-273. Upper Band Edge Plot (Band 25 – 1.4MHz QPSK – RB Size 6)

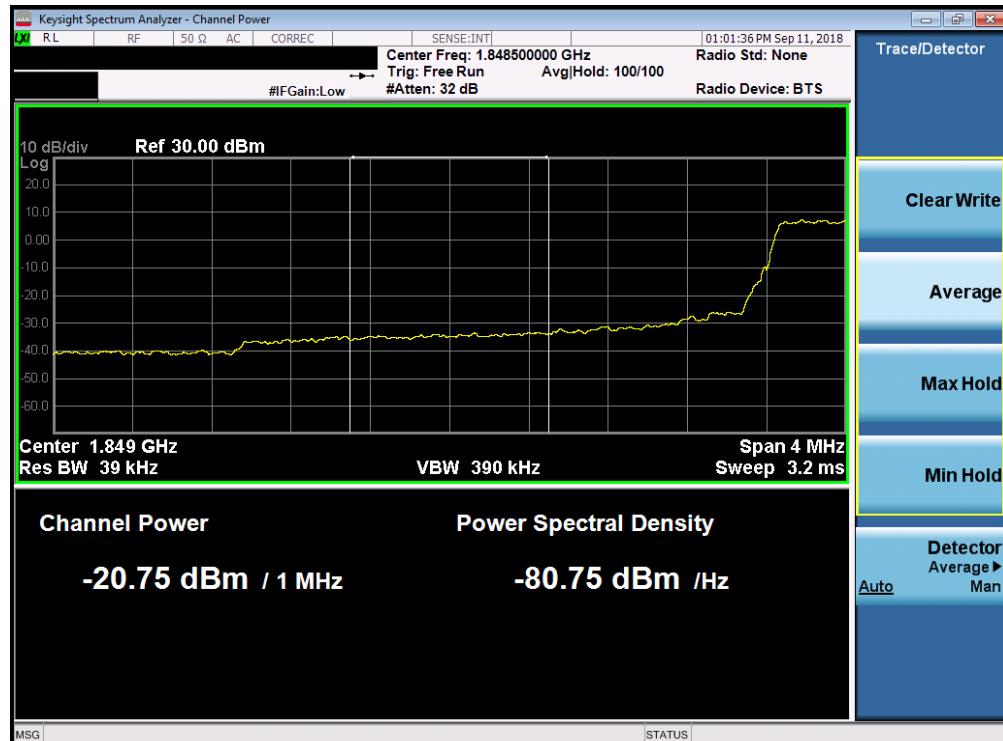


Plot 7-274. Upper Extended Band Edge Plot (Band 25 – 1.4MHz QPSK – RB Size 6)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 162 of 370



Plot 7-275. Lower Band Edge Plot (Band 25 – 3.0MHz QPSK – RB Size 15)

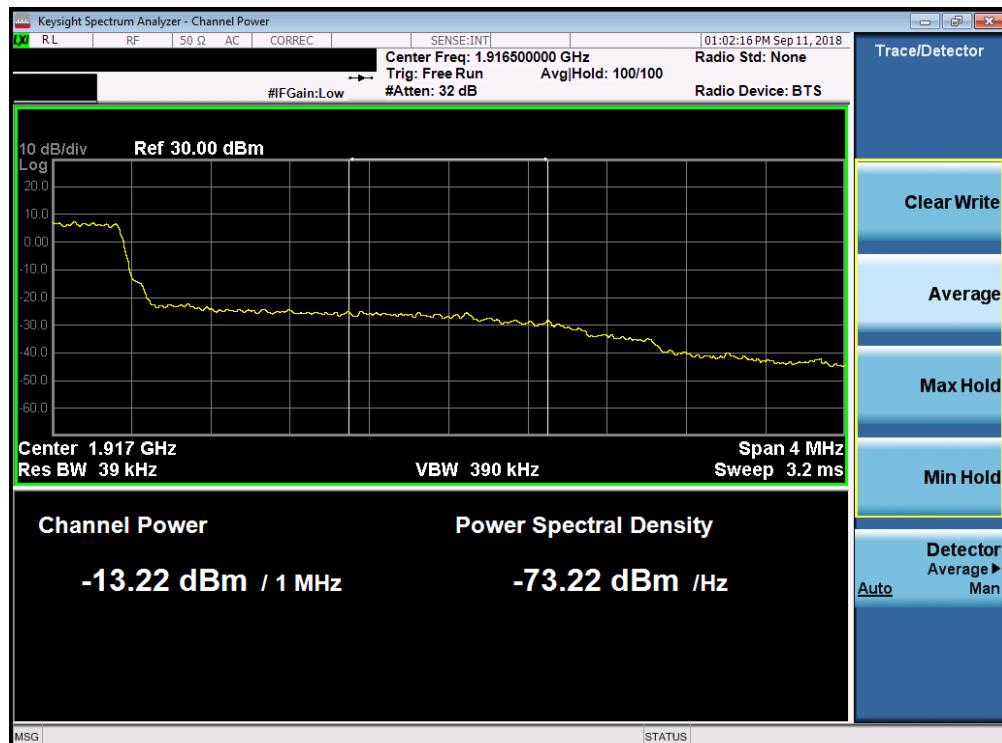


Plot 7-276. Lower Extended Band Edge Plot (Band 25 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 163 of 370

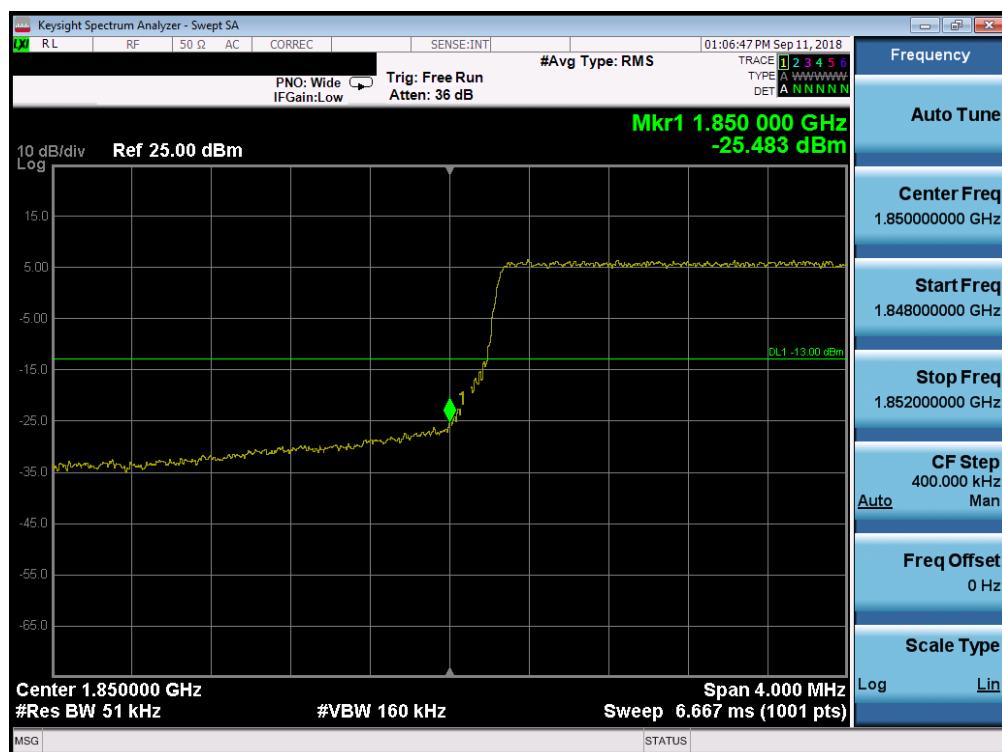


Plot 7-277. Upper Band Edge Plot (Band 25 – 3.0MHz QPSK – RB Size 15)

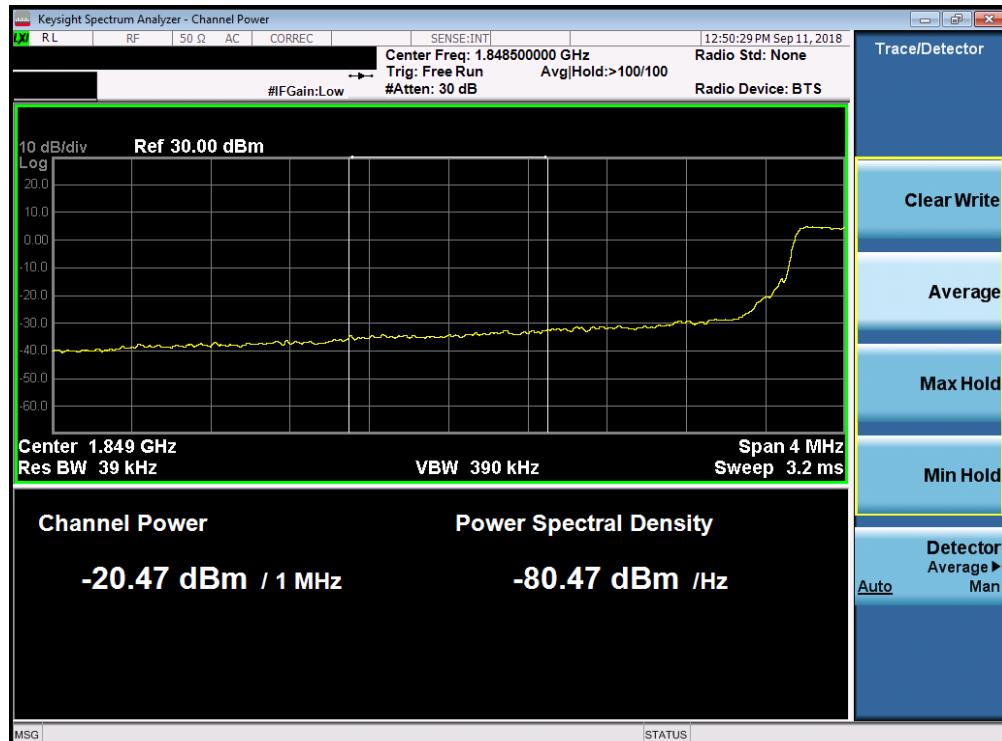


Plot 7-278. Upper Extended Band Edge Plot (Band 25 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-279. Lower Band Edge Plot (Band 25 – 5.0MHz QPSK – RB Size 25)

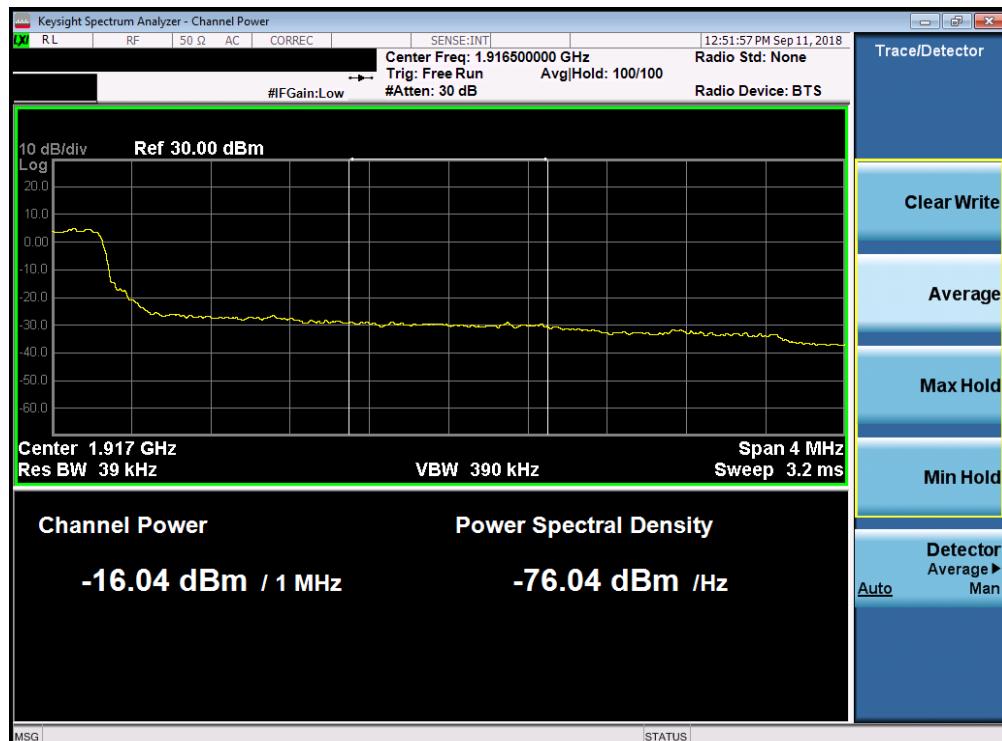


Plot 7-280. Lower Extended Band Edge Plot (Band 25 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-281. Upper Band Edge Plot (Band 25 – 5.0MHz QPSK – RB Size 25)

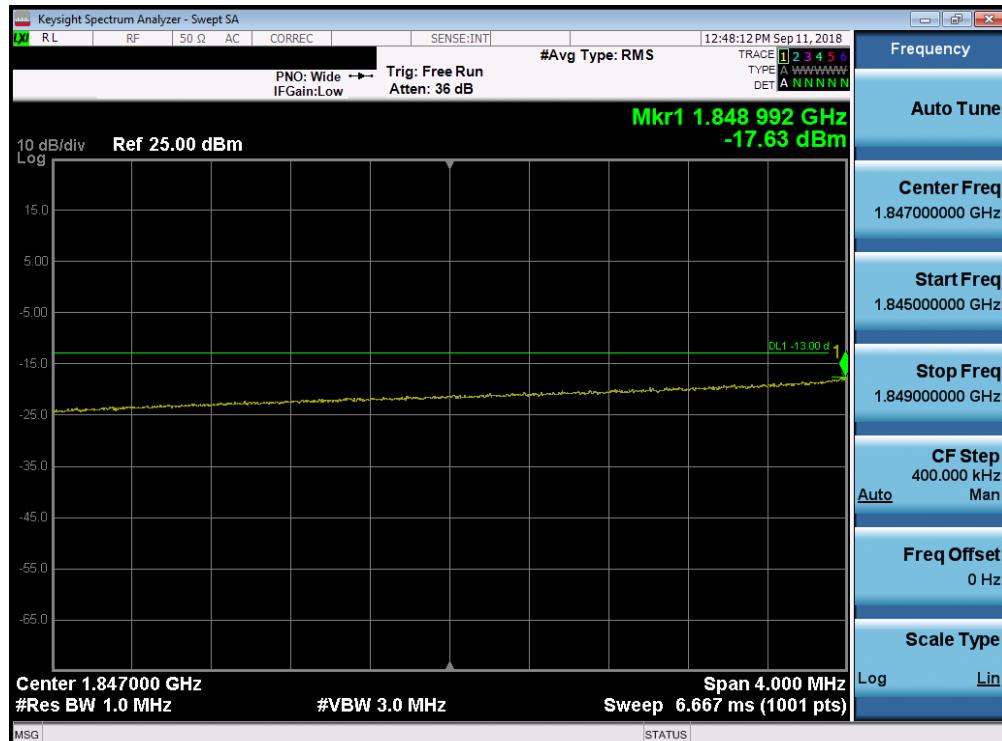


Plot 7-282. Upper Extended Band Edge Plot (Band 25 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 166 of 370

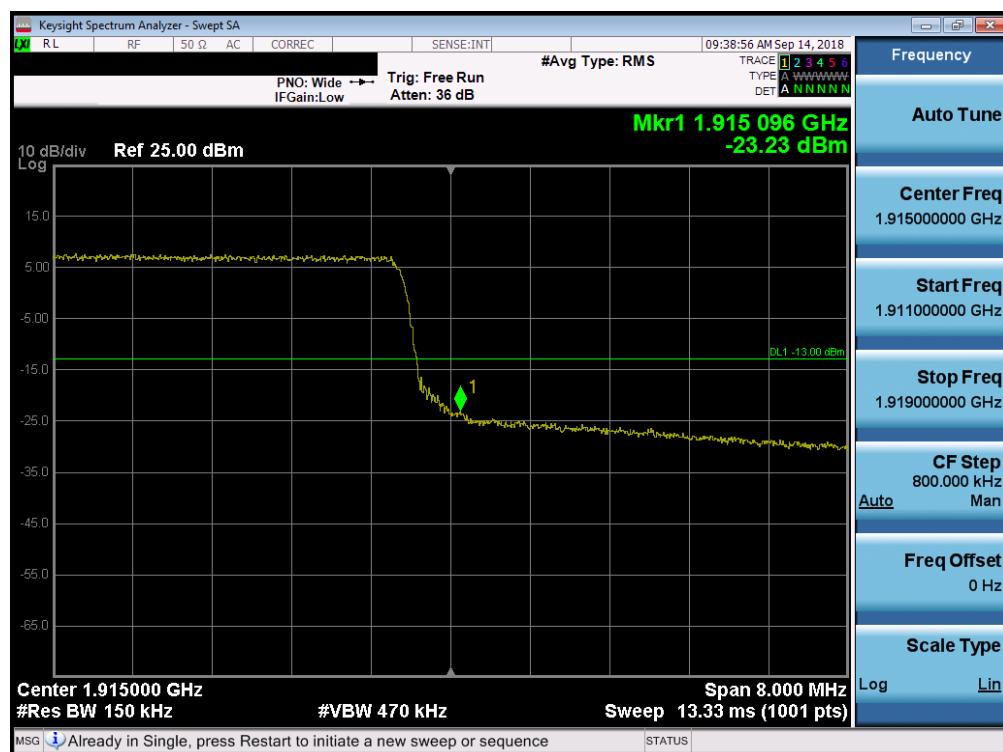


Plot 7-283. Lower Band Edge Plot (Band 25 – 10.0MHz QPSK – RB Size 50)

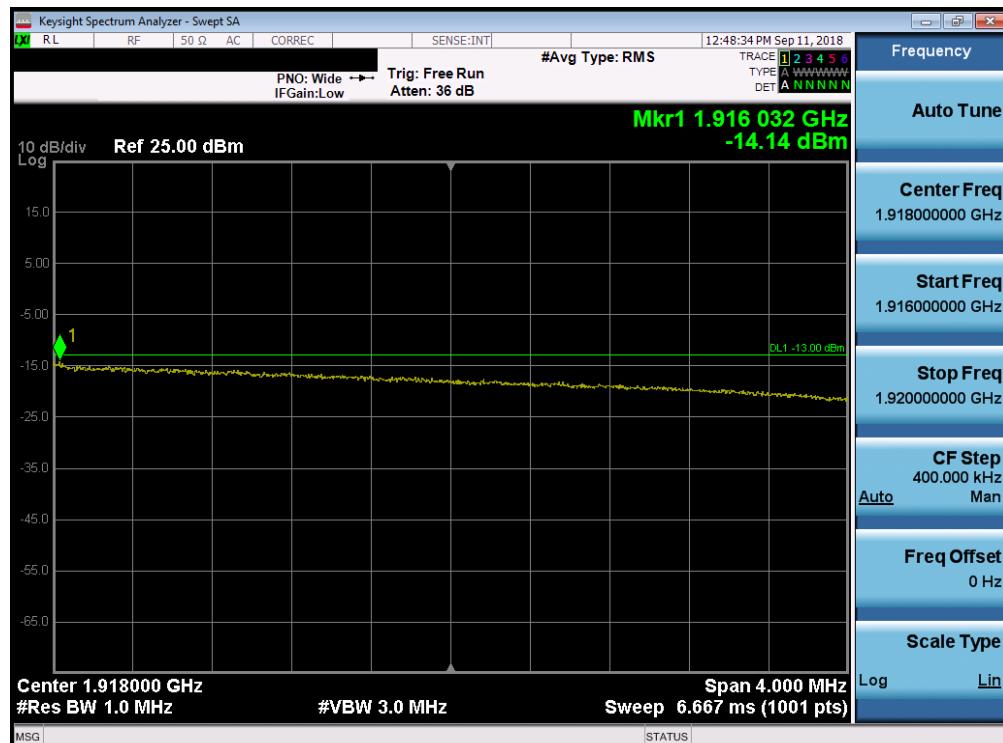


Plot 7-284. Lower Extended Band Edge Plot (Band 25 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-285. Upper Band Edge Plot (Band 25 – 10.0MHz QPSK – RB Size 50)

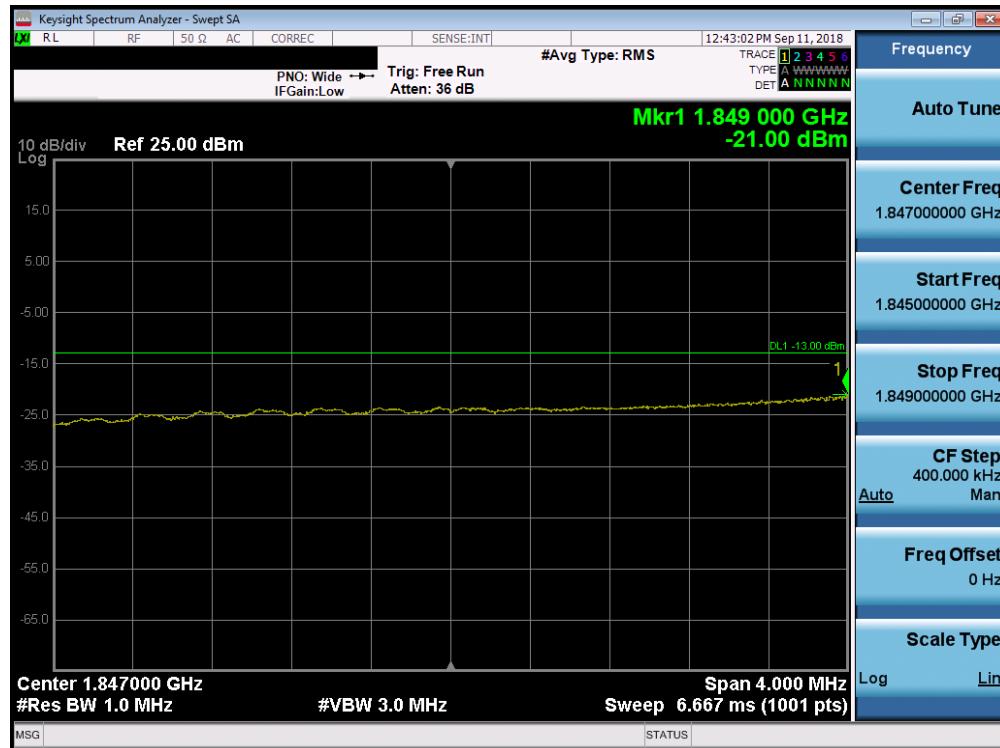


Plot 7-286. Upper Extended Band Edge Plot (Band 25 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 168 of 370



Plot 7-287. Lower Band Edge Plot (Band 25 – 15.0MHz QPSK – RB Size 75)

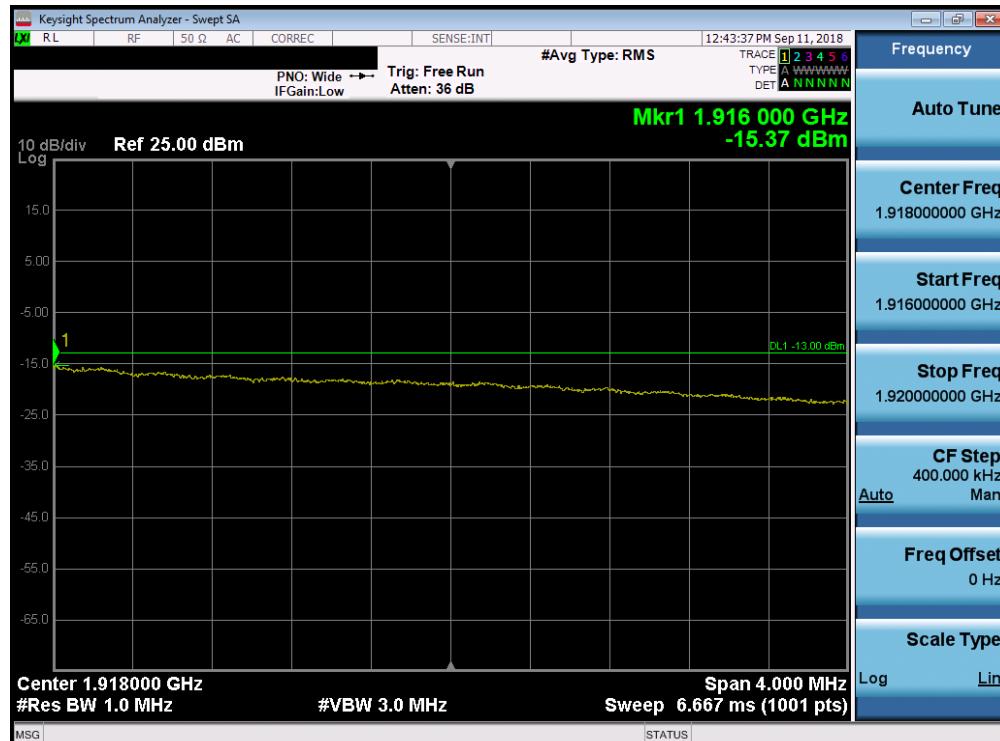


Plot 7-288. Lower Extended Band Edge Plot (Band 25 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 169 of 370

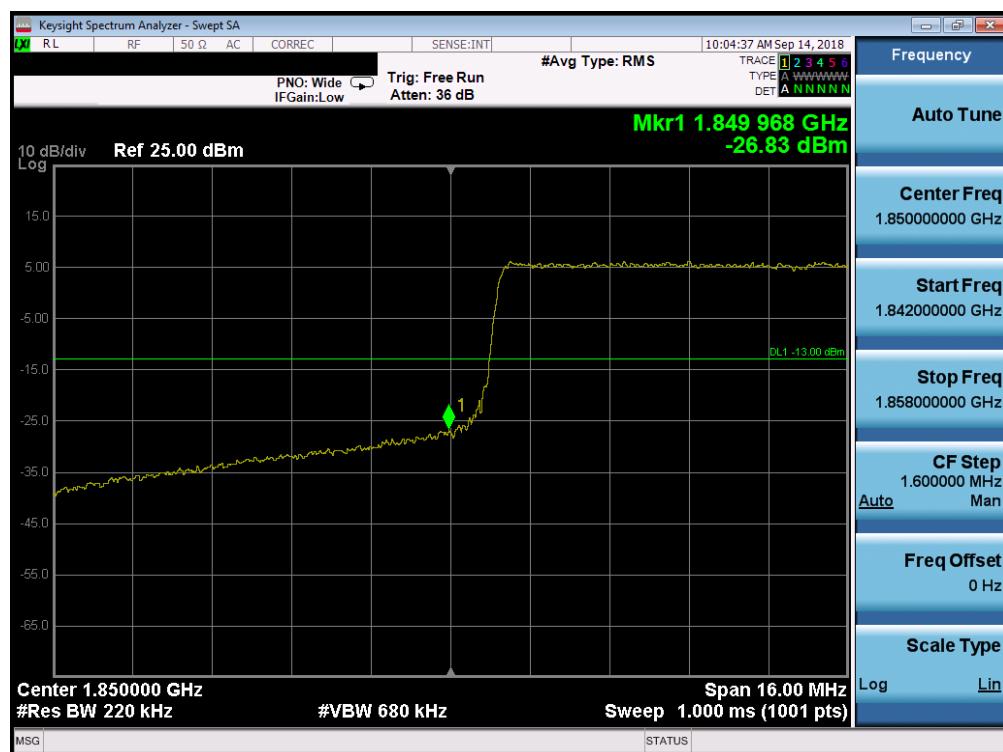


Plot 7-289. Upper Band Edge Plot (Band 25 – 15.0MHz QPSK – RB Size 75)



Plot 7-290. Upper Extended Band Edge Plot (Band 25 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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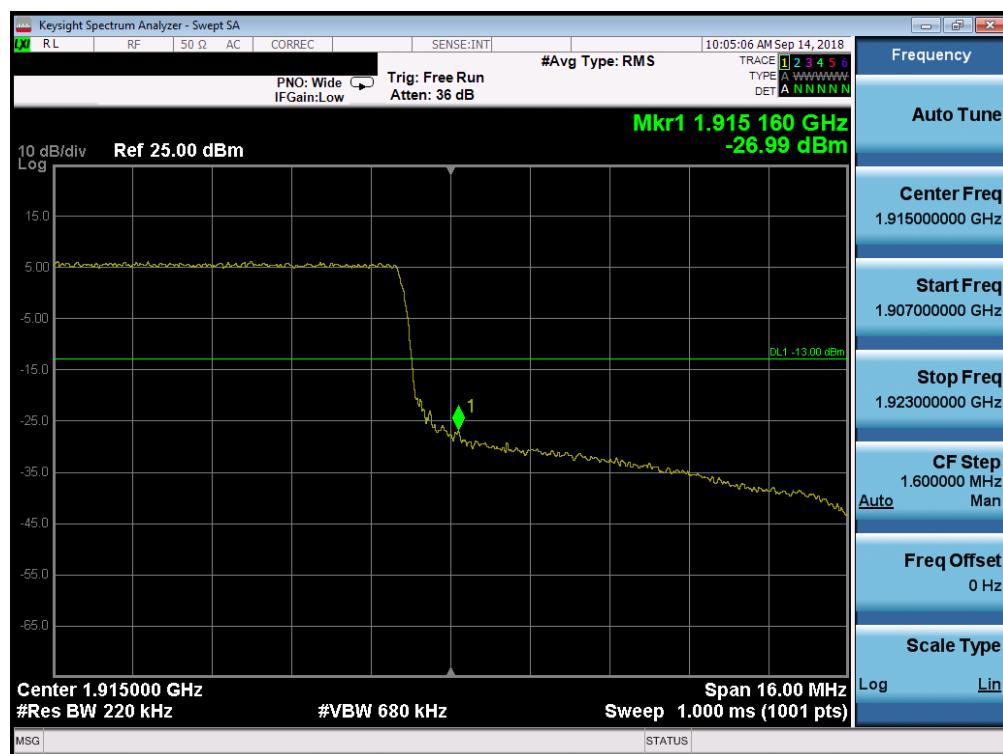


Plot 7-291. Lower Band Edge Plot (Band 25 – 20.0MHz QPSK – RB Size 100)

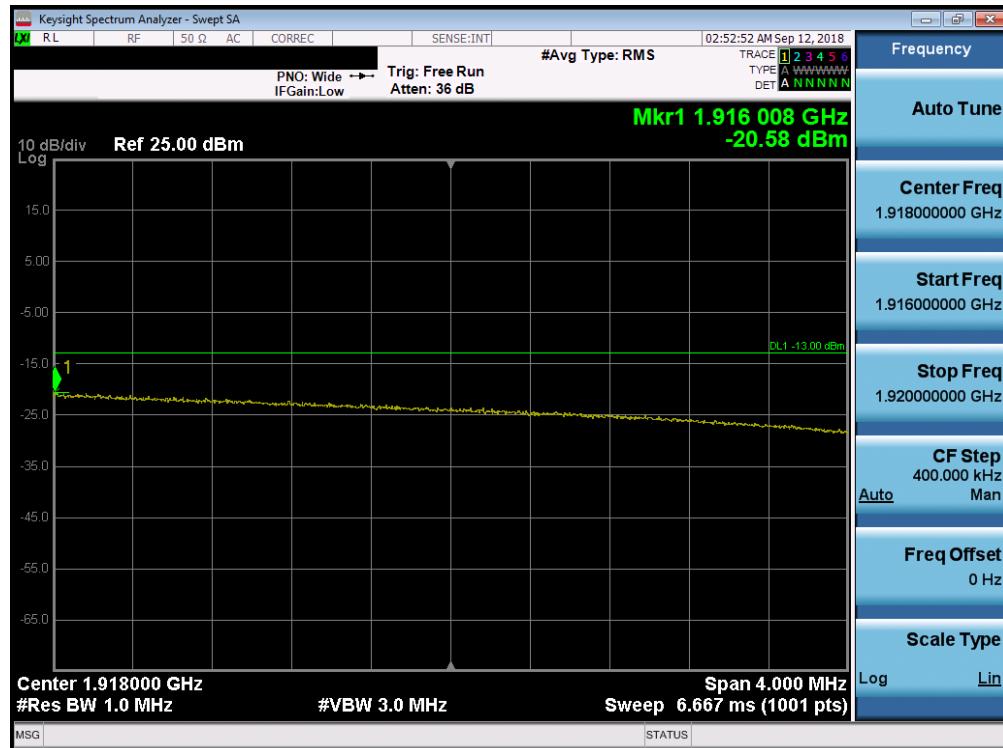


Plot 7-292. Lower Extended Band Edge Plot (Band 25 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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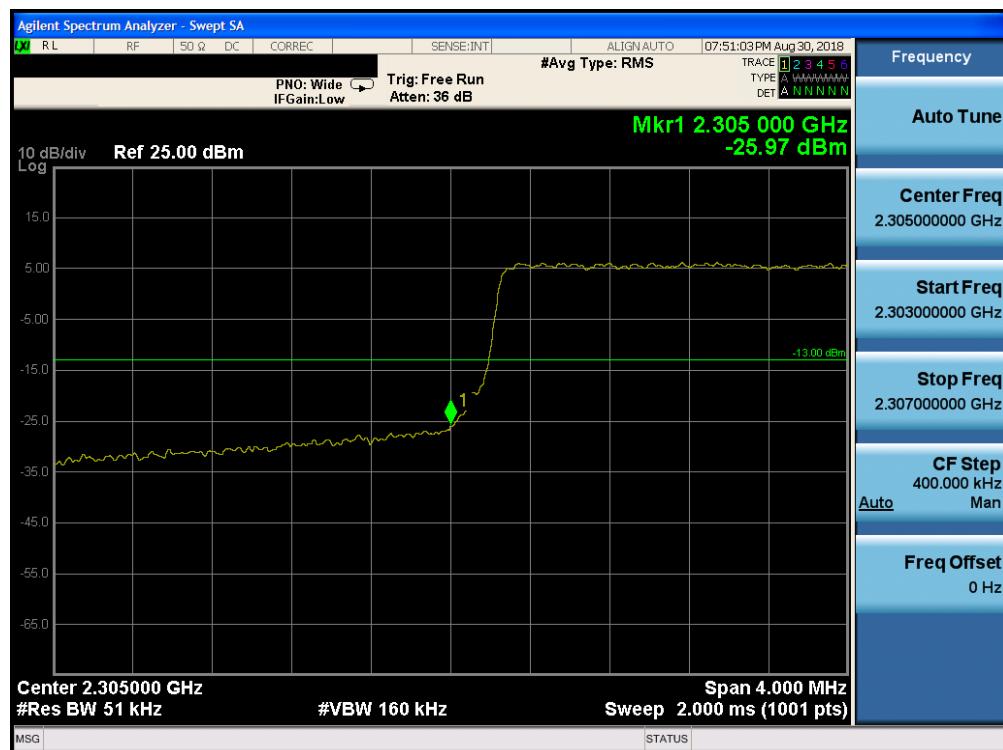
Plot 7-293. Upper Band Edge Plot (Band 25 – 20.0MHz QPSK – RB Size 100)



Plot 7-294. Upper Extended Band Edge Plot (Band 25 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 30

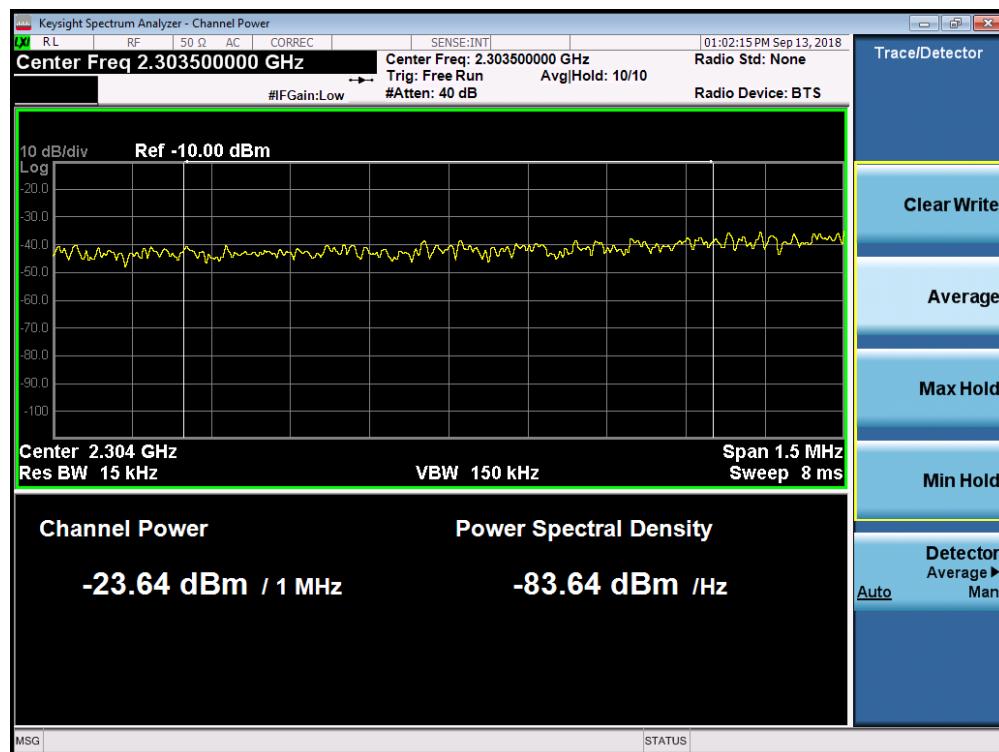


Plot 7-295. Lower Band Edge Plot (Band 30 – 5.0MHz QPSK – RB Size 25)



Plot 7-296. Lower Extended Band Edge Plot 2288 MHz – 2303 MHz (Band 30 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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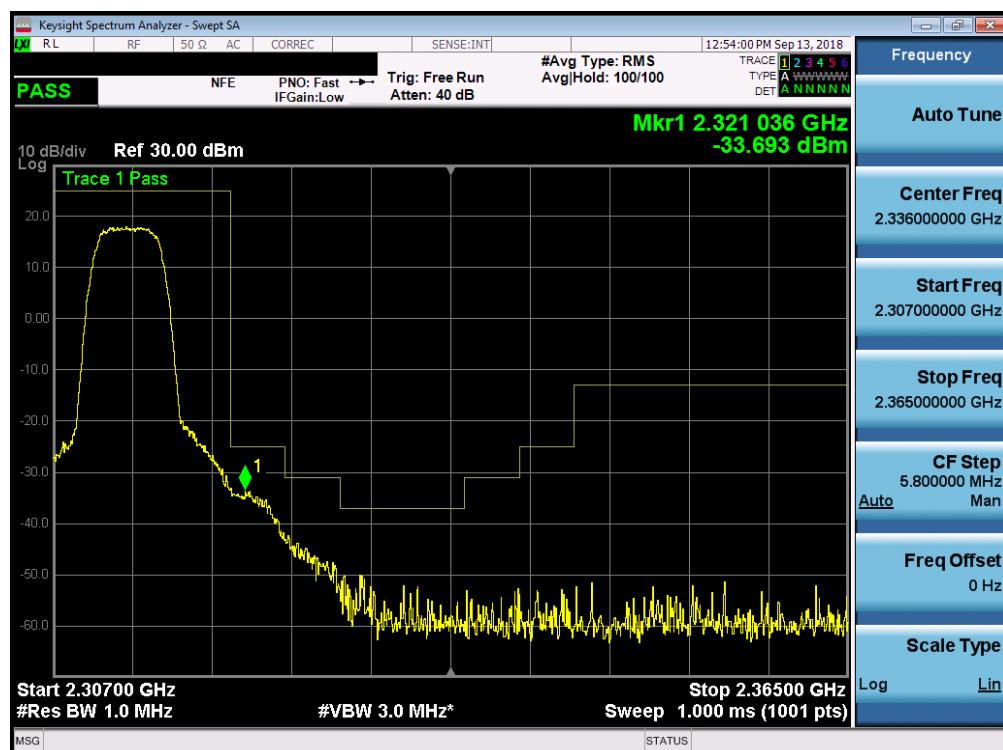


Plot 7-297. Lower Extended Band Edge Plot 2203 MHz – 2304 MHz (Band 30 – 5.0MHz QPSK – RB Size 25)

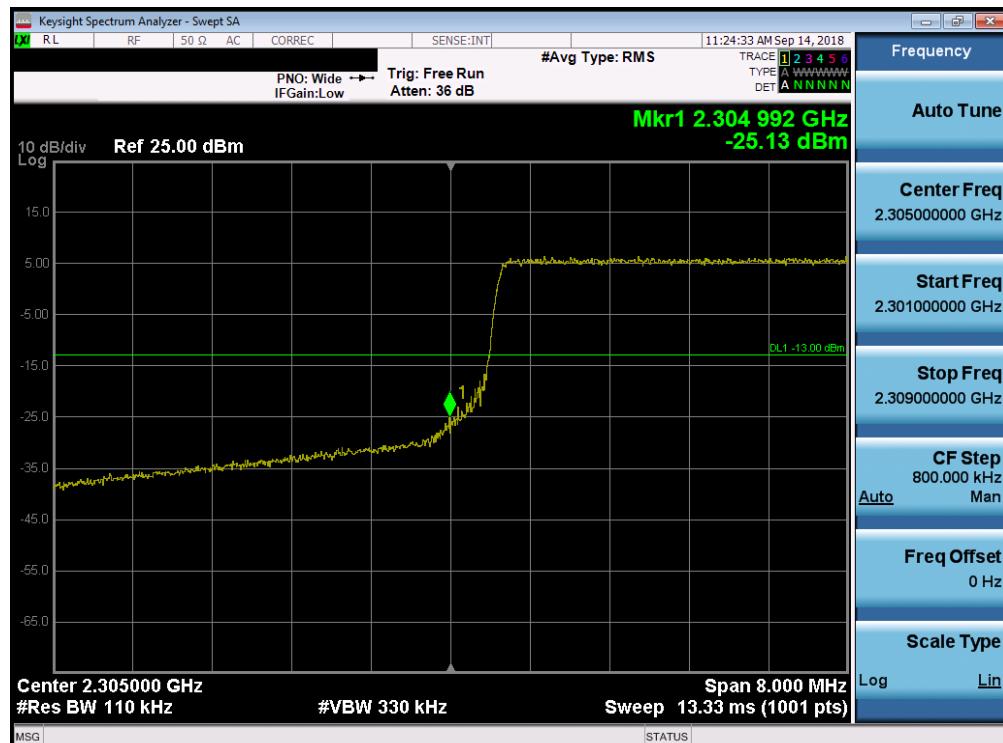


Plot 7-298. Upper Band Edge Plot (Band 30 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-299. Upper Extended Band Edge Plot (Band 30 – 5.0MHz QPSK – RB Size 25)



Plot 7-300. Lower Band Edge Plot (Band 30 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 175 of 370	

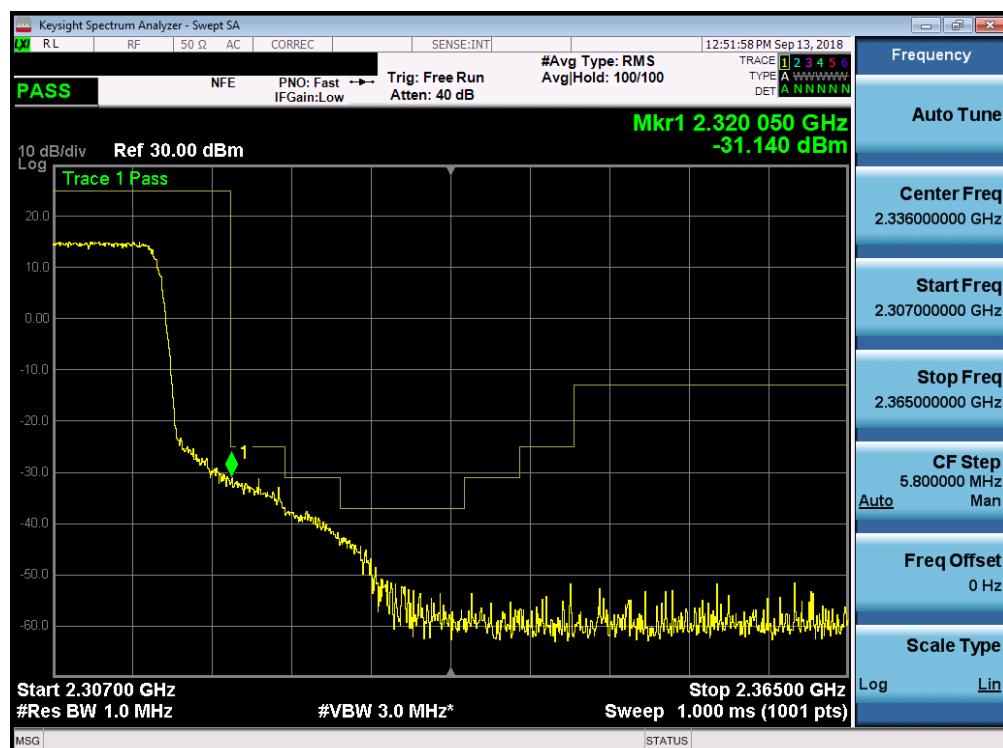


Plot 7-301. Lower Extended Band Edge Plot (Band 30 – 10.0MHz QPSK – RB Size 50)



Plot 7-302. Upper Band Edge Plot (Band 30 – 10.0MHz QPSK – RB Size 50)

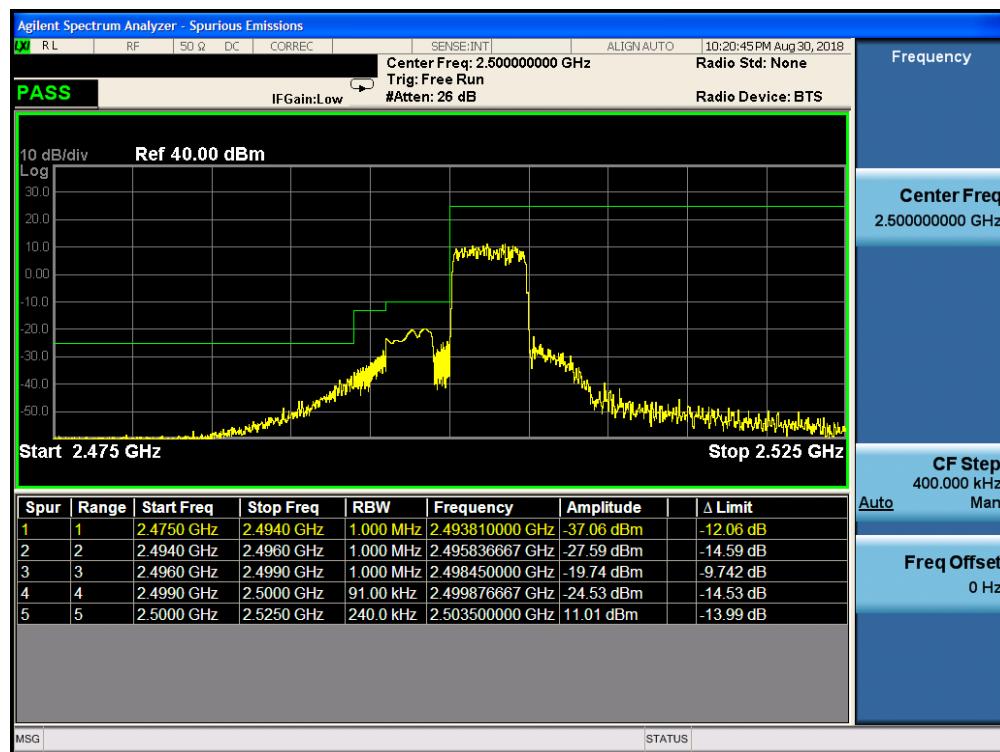
FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 176 of 370



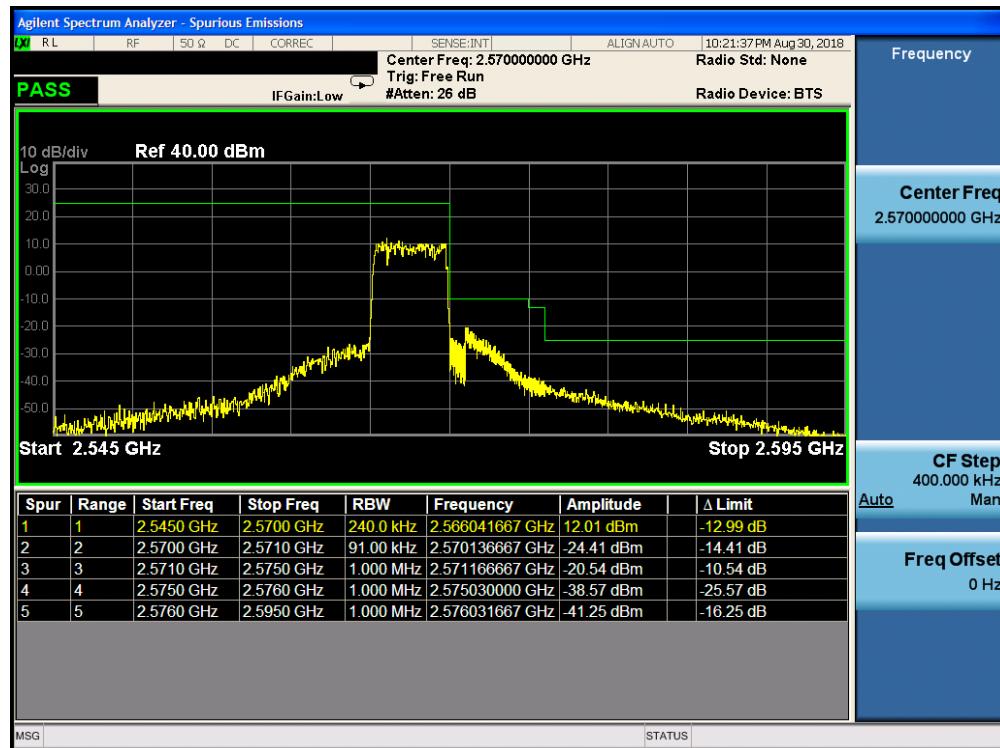
Plot 7-303. Upper Extended Band Edge Plot (Band 30 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 7



Plot 7-304. Lower ACP Plot (Band 7 – 5.0MHz QPSK – RB Size 25)



Plot 7-305. Upper ACP Plot (Band 7 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-306. Lower ACP Plot (Band 7 – 10.0MHz QPSK – RB Size 50)



Plot 7-307. Upper ACP Plot (Band 7 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-308. Lower ACP Plot (Band 7 – 15.0MHz QPSK – RB Size 75)



Plot 7-309. Upper ACP Plot (Band 7 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 180 of 370



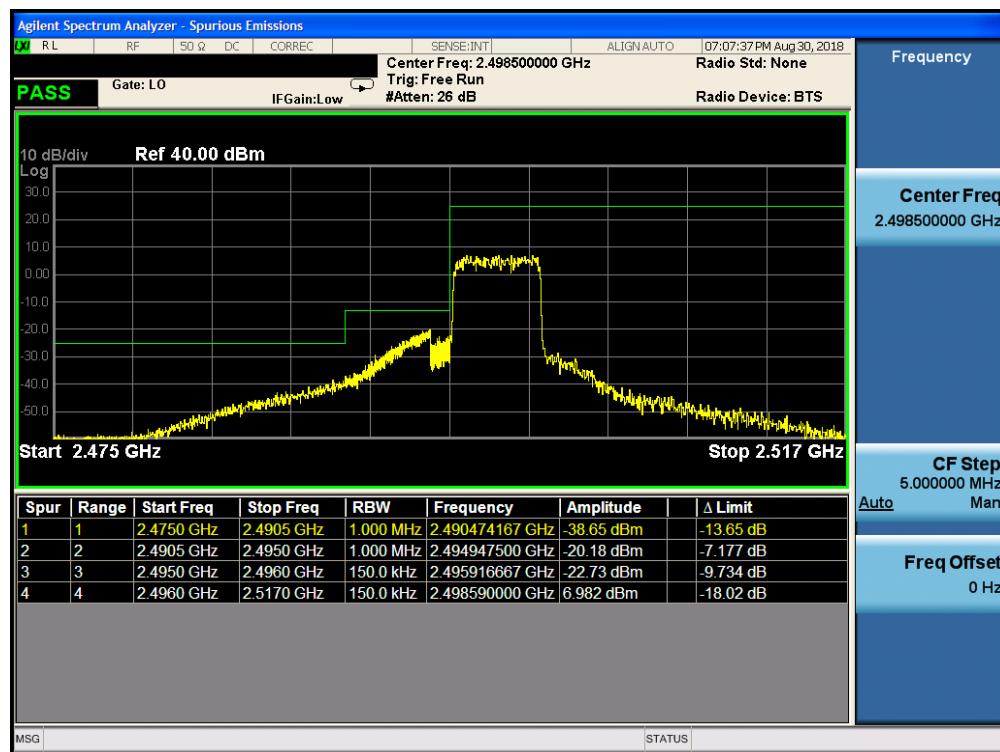
Plot 7-310. Lower ACP Plot (Band 7 – 20.0MHz QPSK – RB Size 100)



Plot 7-311. Upper ACP Plot (Band 7 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 181 of 370

Band 41



Plot 7-312. Lower ACP Plot (Band 41 – 5.0MHz QPSK – RB Size 25)



Plot 7-313. Upper ACP Plot (Band 41 – 5.0MHz QPSK – RB Size 25)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 182 of 370



Plot 7-314. Lower ACP Plot (Band 41 – 10.0MHz QPSK – RB Size 50)



Plot 7-315. Upper ACP Plot (Band 41 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 183 of 370



Plot 7-316. Lower ACP Plot (Band 41 – 15.0MHz QPSK – RB Size 75)



Plot 7-317. Upper ACP Plot (Band 41 – 15.0MHz QPSK – RB Size 75)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 184 of 370



Plot 7-318. Lower ACP Plot (Band 41 – 20.0MHz QPSK – RB Size 100)



Plot 7-319. Upper ACP Plot (Band 41 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 185 of 370

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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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.

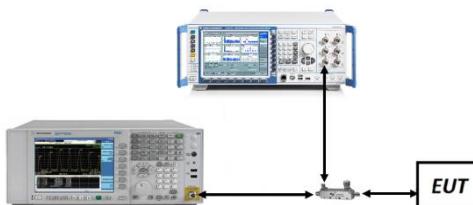


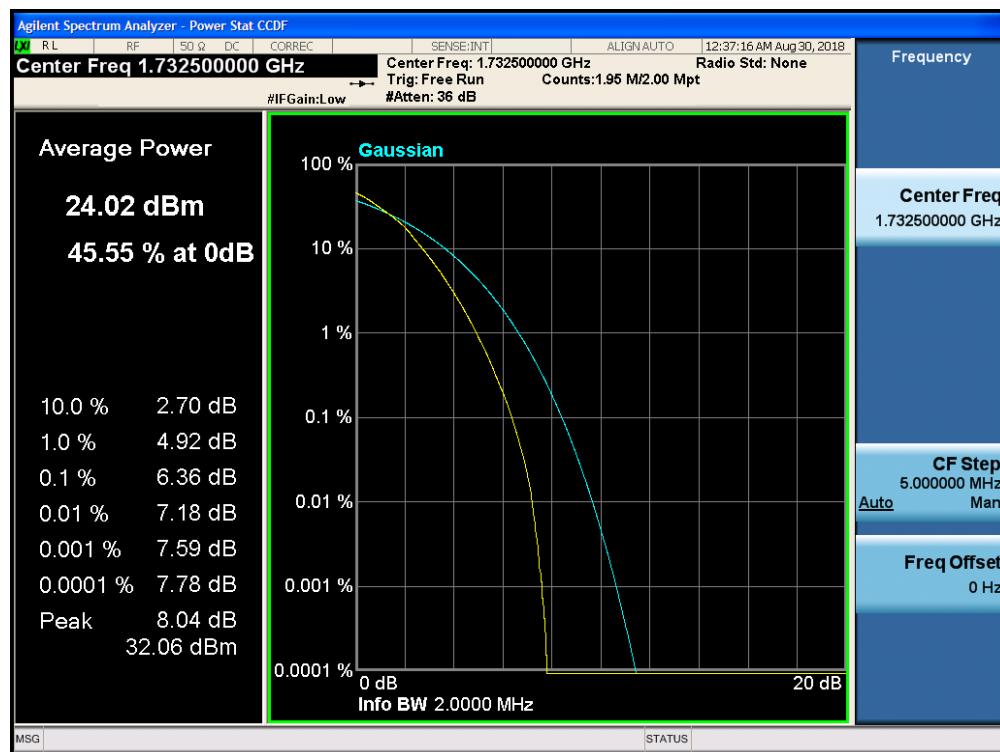
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

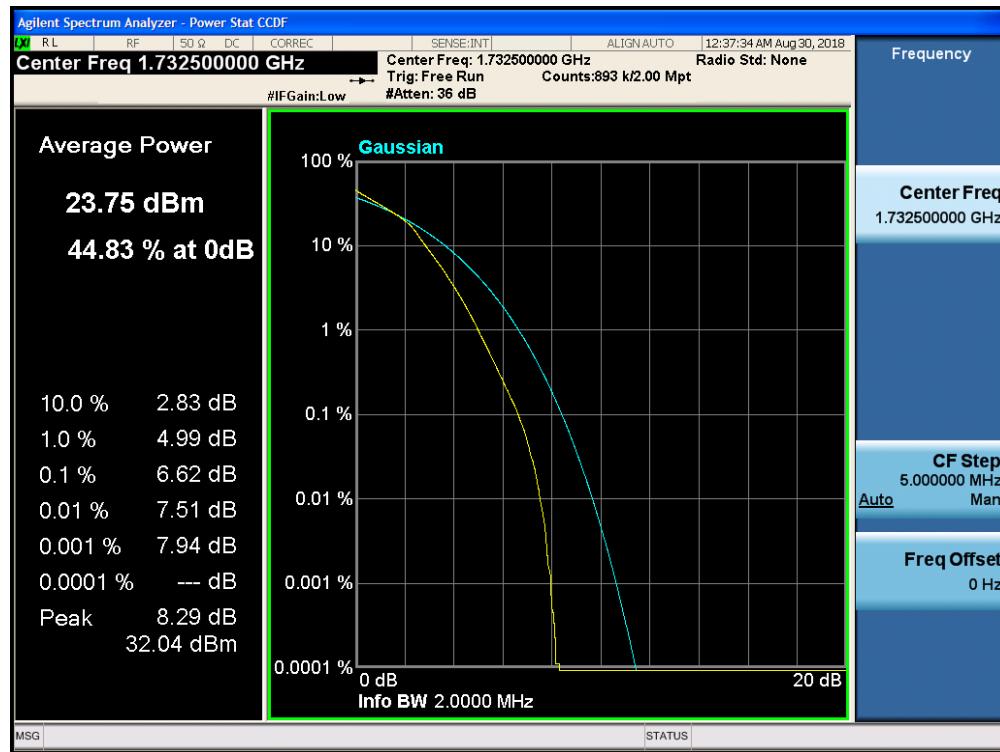
1. All ports were tested and only the worst case data were reported.
2. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 4

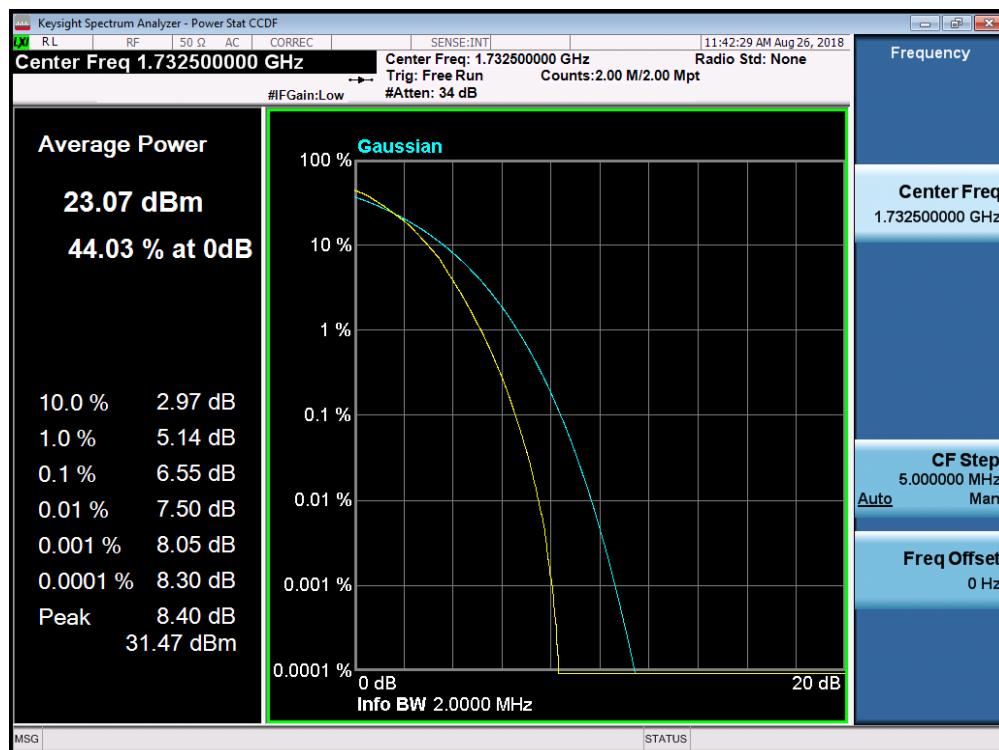


Plot 7-320. PAR Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

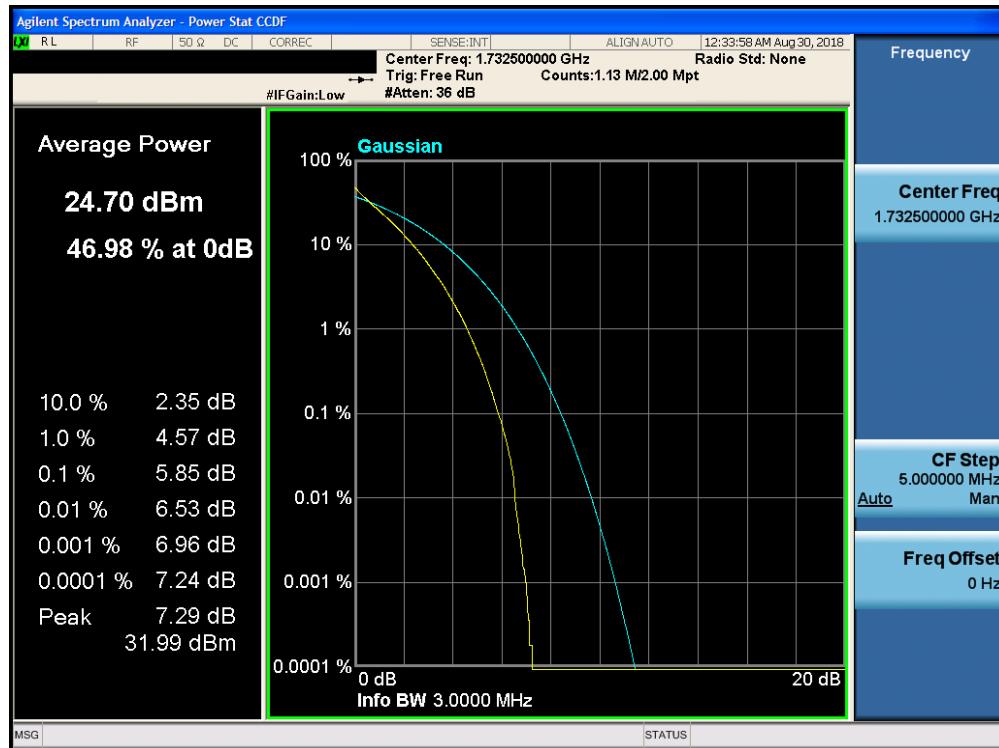


Plot 7-321. PAR Plot (Band 4 – 1.4MHz 16-QAM – RB Size 6)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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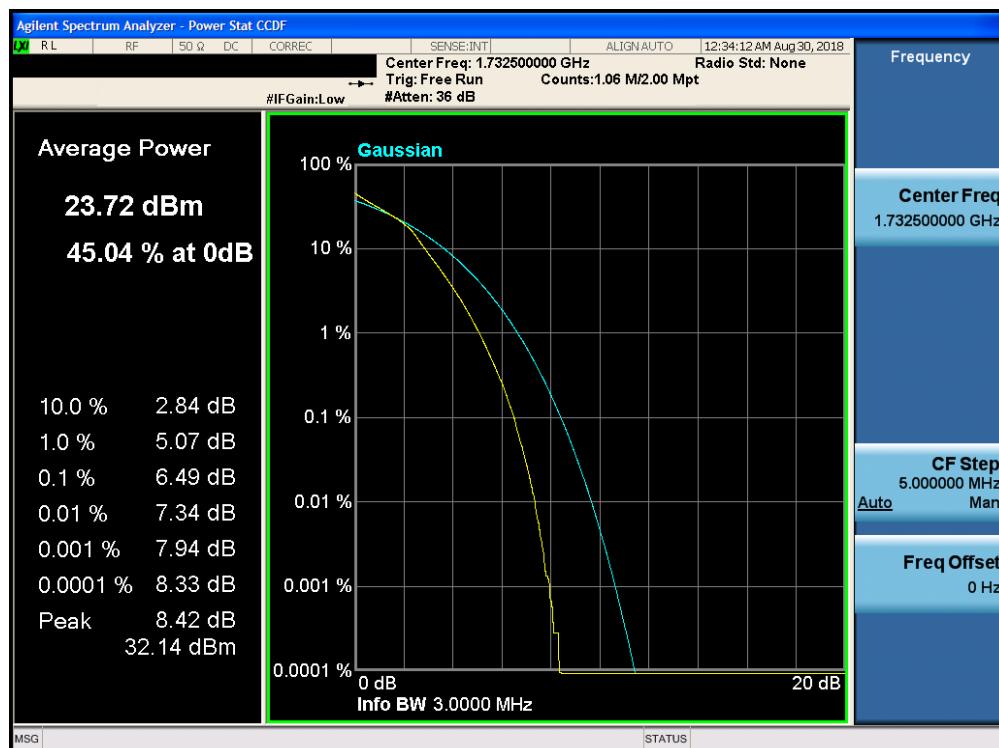


Plot 7-322. PAR Plot (Band 4 – 1.4MHz 64-QAM – RB Size 6)

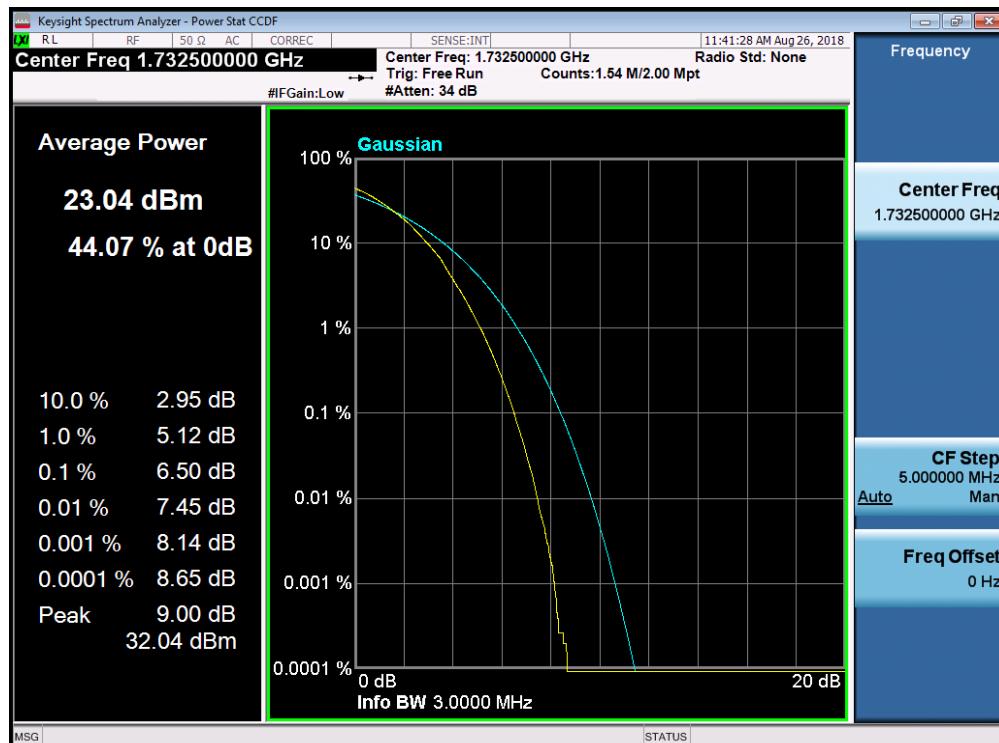


Plot 7-323. PAR Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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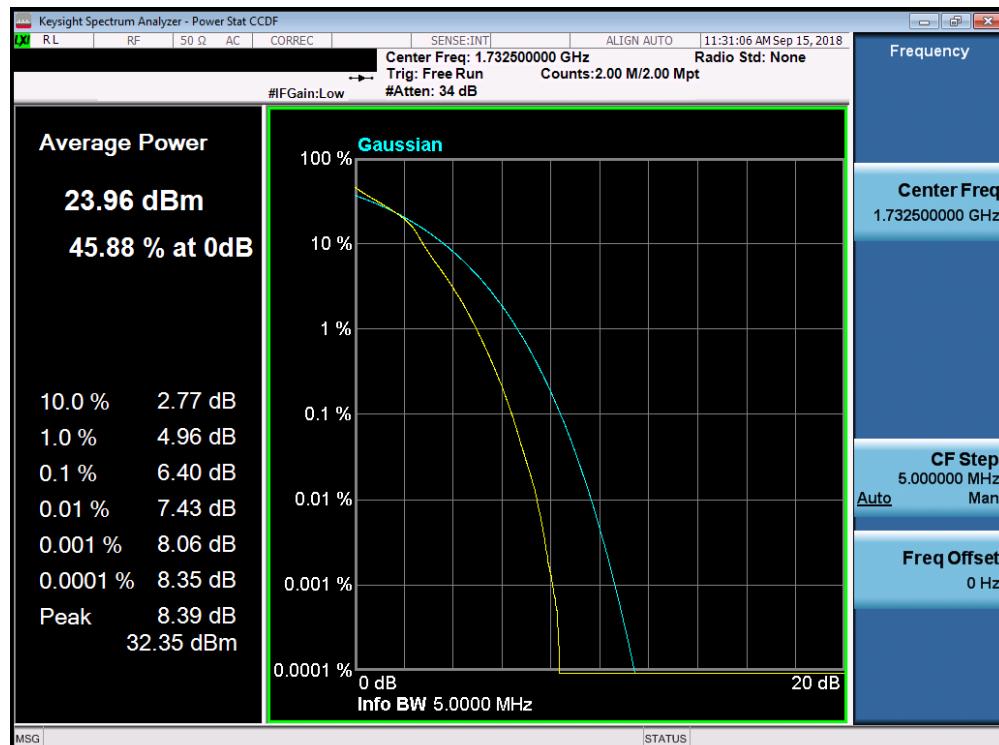


Plot 7-324. PAR Plot (Band 4 – 3.0MHz 16-QAM – RB Size 15)

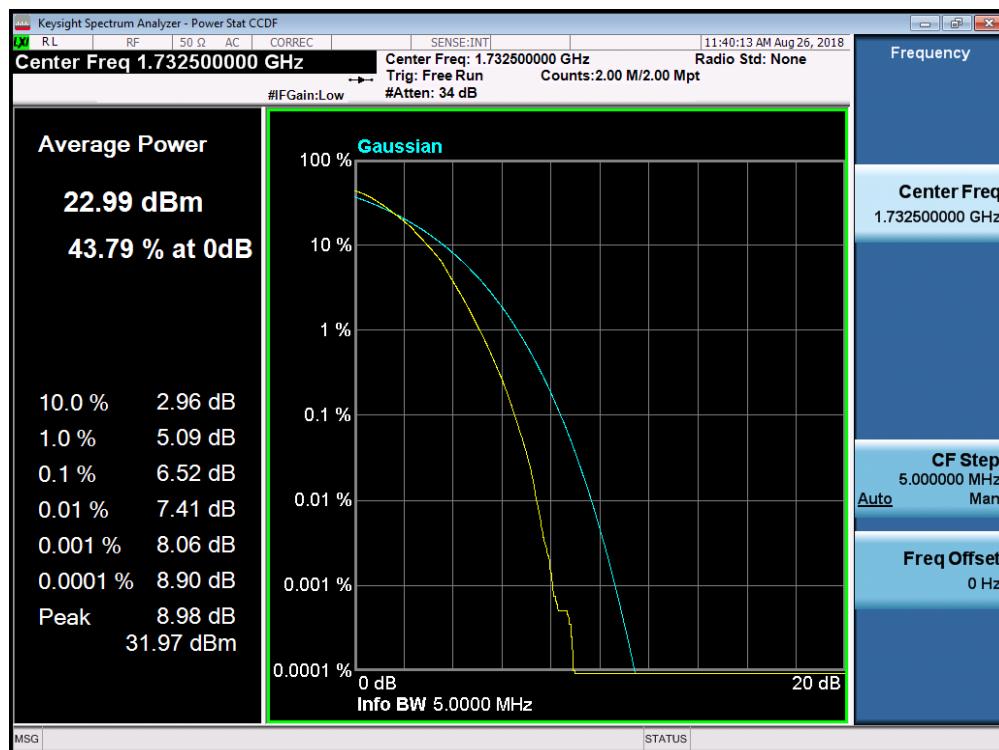


Plot 7-325. PAR Plot (Band 4 – 3.0MHz 64-QAM – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-326. PAR Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

Plot 7-327. PAR Plot (Band 4 – 5.0MHz 16-QAM – RB Size 25)

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-328. PAR Plot (Band 4 – 5.0MHz 64-QAM – RB Size 25)

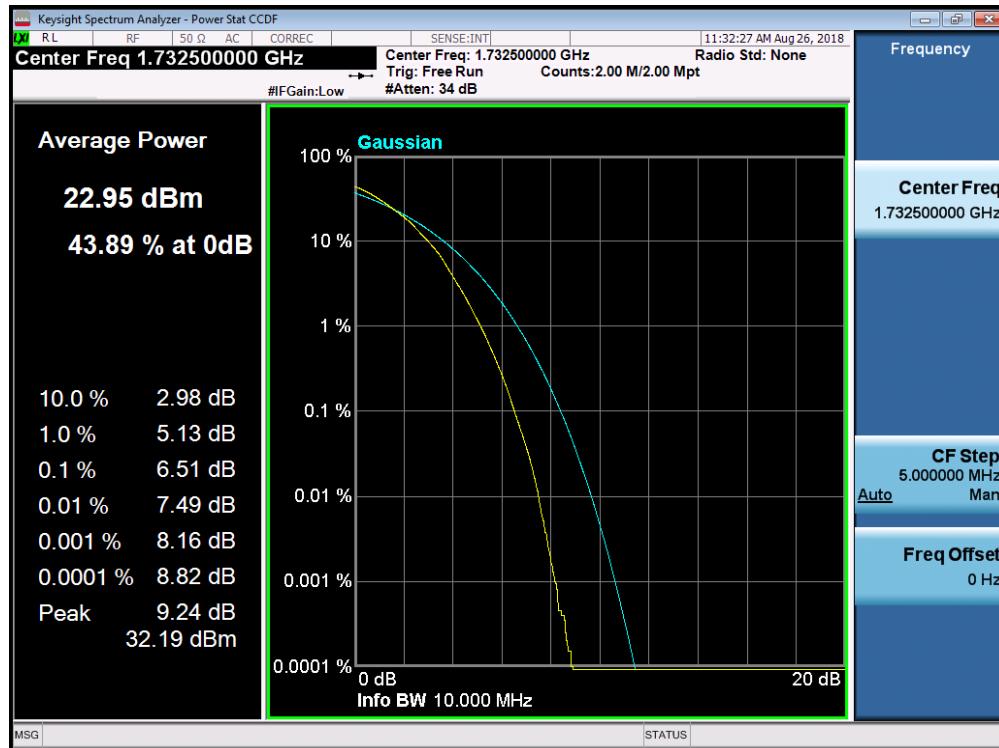


Plot 7-329. PAR Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-330. PAR Plot (Band 4 – 10.0MHz 16-QAM – RB Size 50)

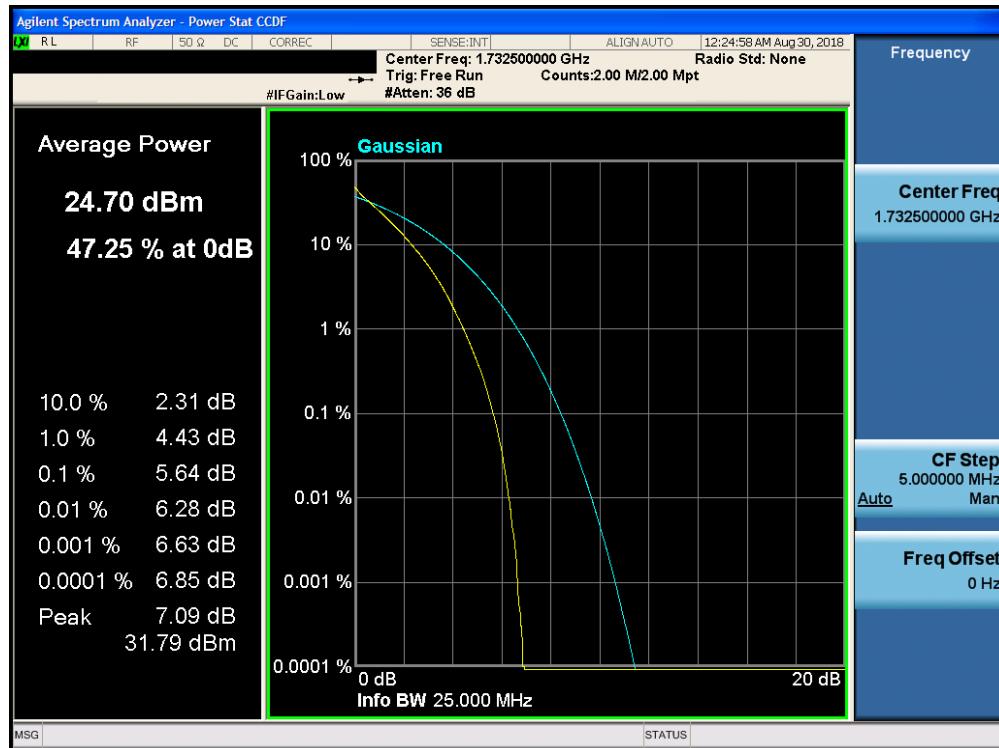


Plot 7-331. PAR Plot (Band 4 – 10.0MHz 64-QAM – RB Size 50)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device		Page 193 of 370

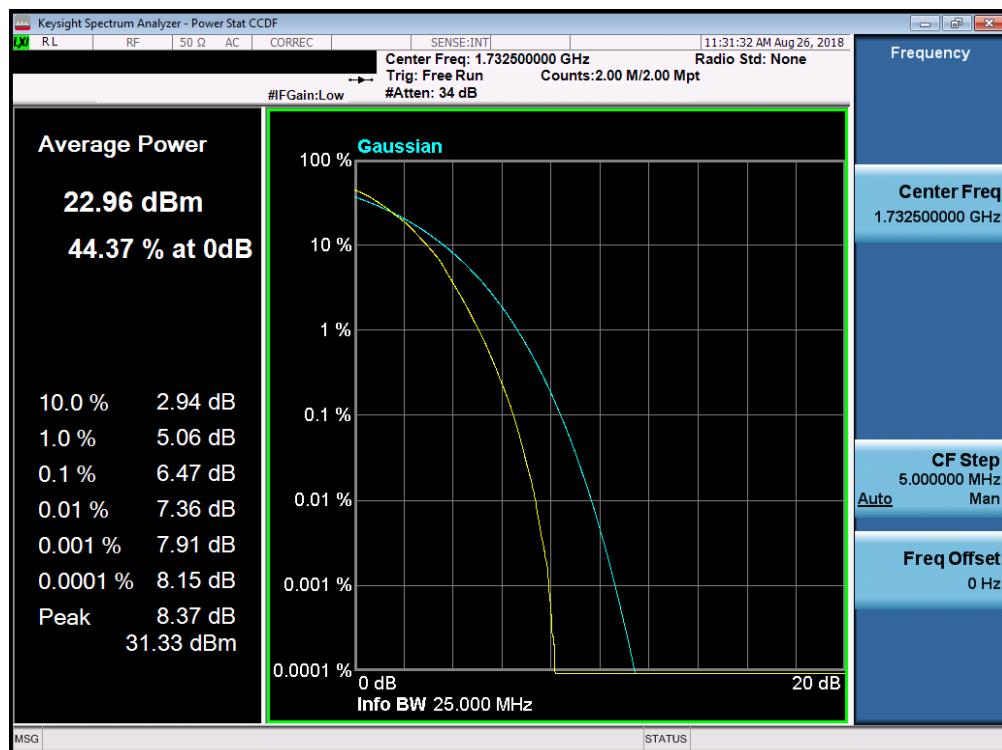


Plot 7-332. PAR Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

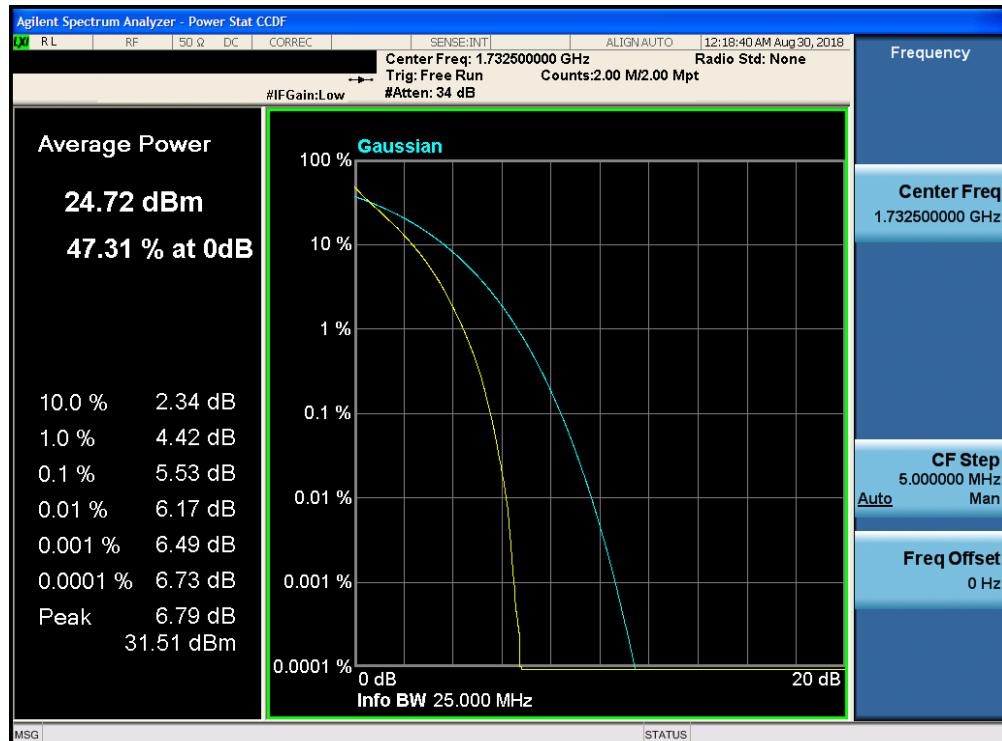


Plot 7-333. PAR Plot (Band 4 – 15.0MHz 16-QAM – RB Size 75)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-334. PAR Plot (Band 4 – 15.0MHz 64-QAM – RB Size 75)



Plot 7-335. PAR Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66

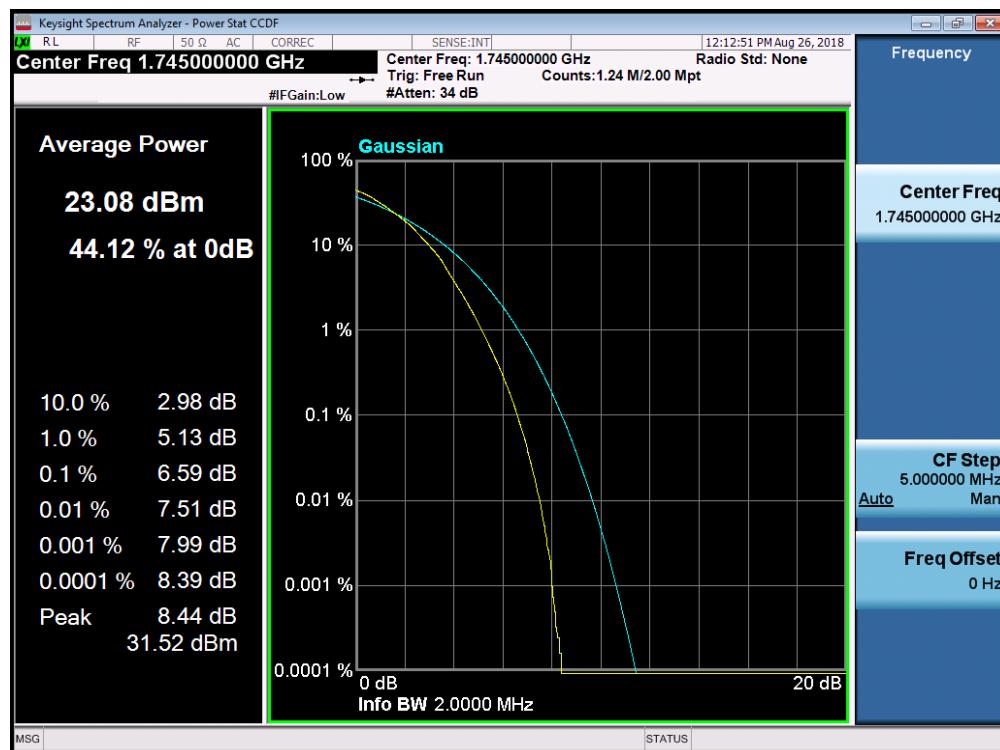


Plot 7-336. PAR Plot (Band 66 – 1.4MHz QPSK – RB Size 6)

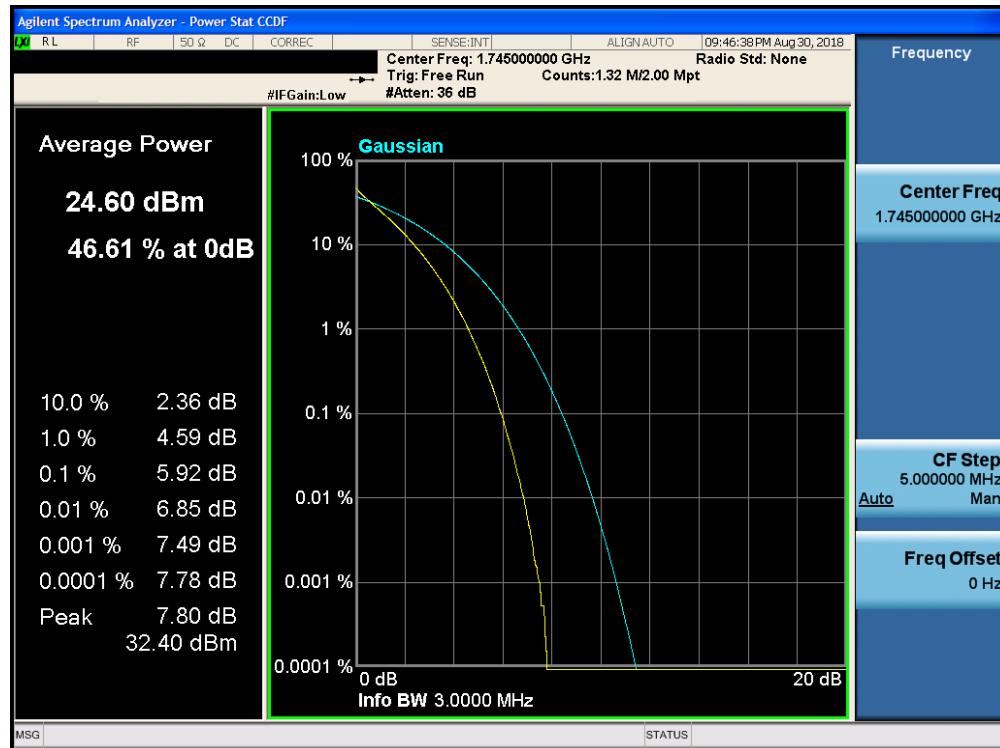


Plot 7-337. PAR Plot (Band 66 – 1.4MHz 16-QAM – RB Size 6)

FCC ID: BCGA1934	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806220015-03.BCG	Test Dates: 07/27/2018-10/10/2018	EUT Type: Tablet Device	Page 196 of 370



Plot 7-338. PAR Plot (Band 66 – 1.4MHz 64-QAM – RB Size 6)



Plot 7-339. PAR Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

FCC ID: BCGA1934	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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