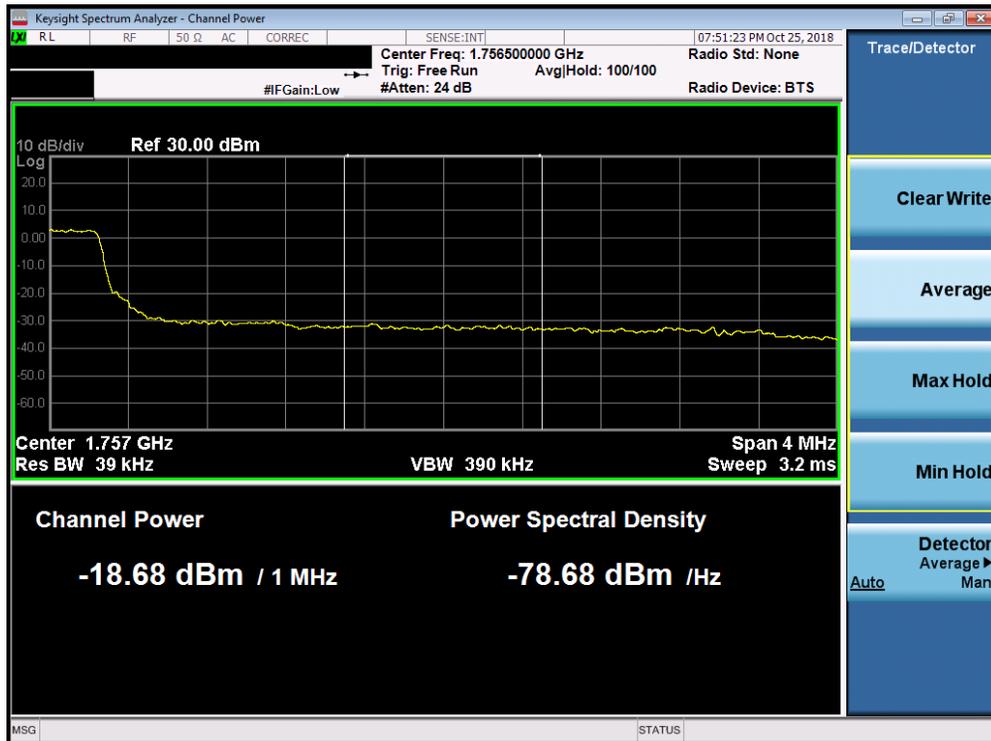




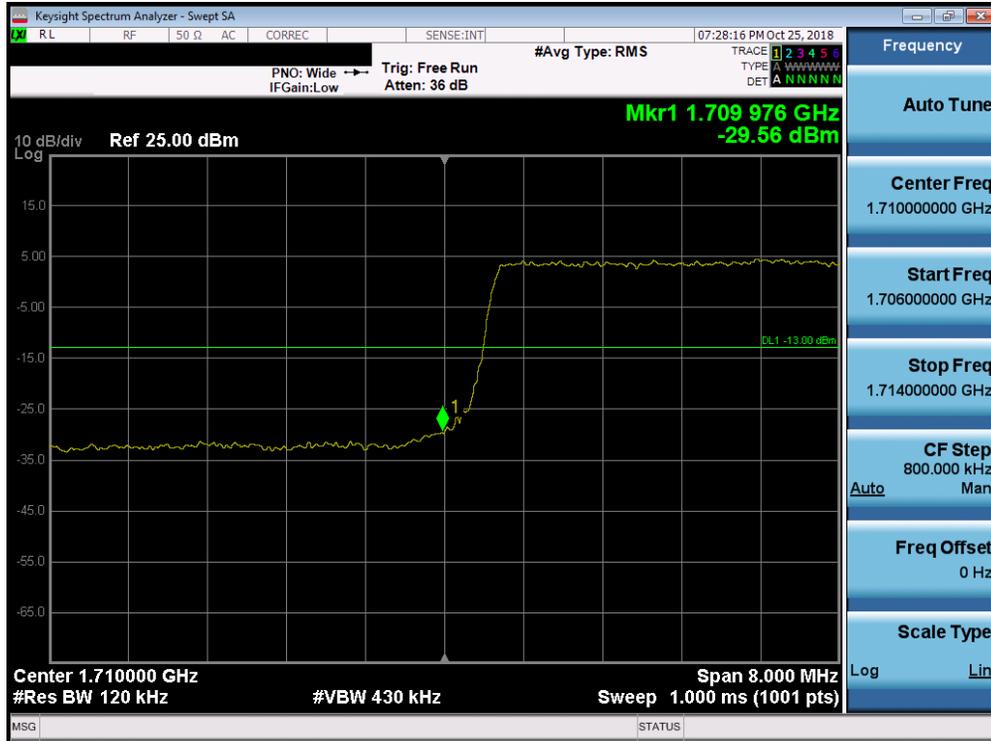
Plot 7-297. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)



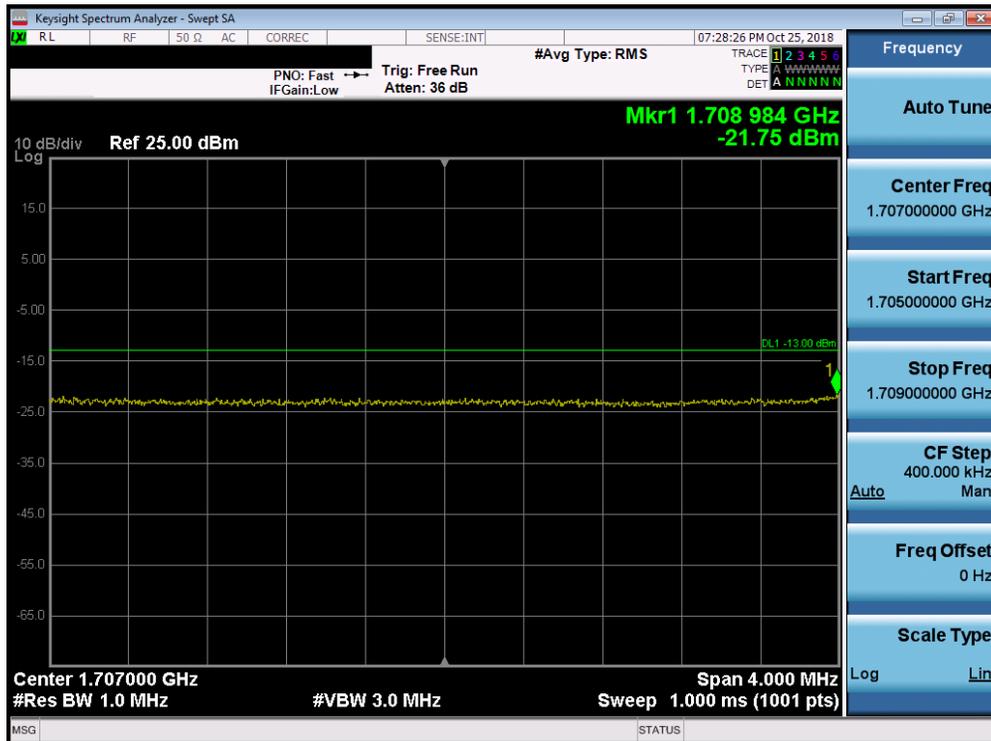
Plot 7-298. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 176 of 374





Plot 7-301. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

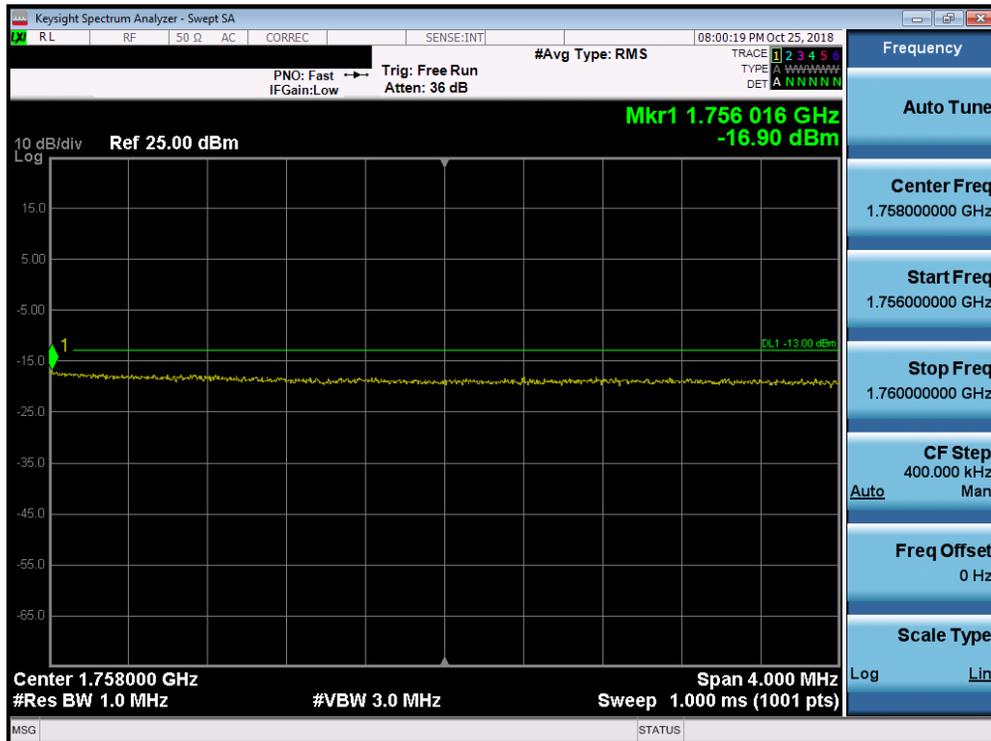


Plot 7-302. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 178 of 374

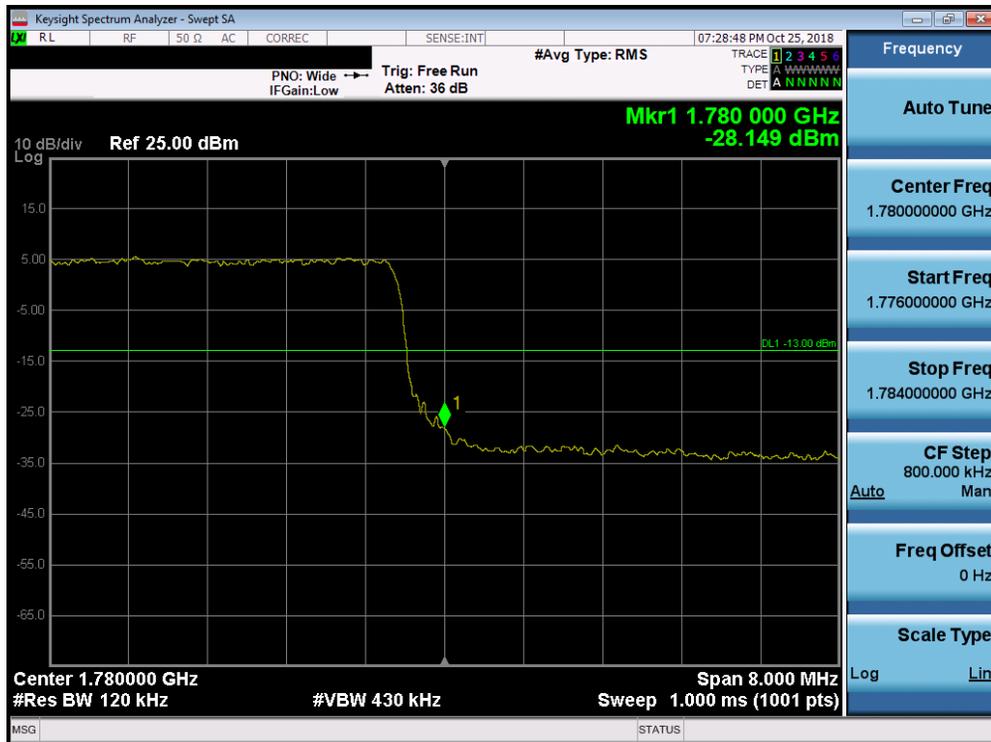


Plot 7-303. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

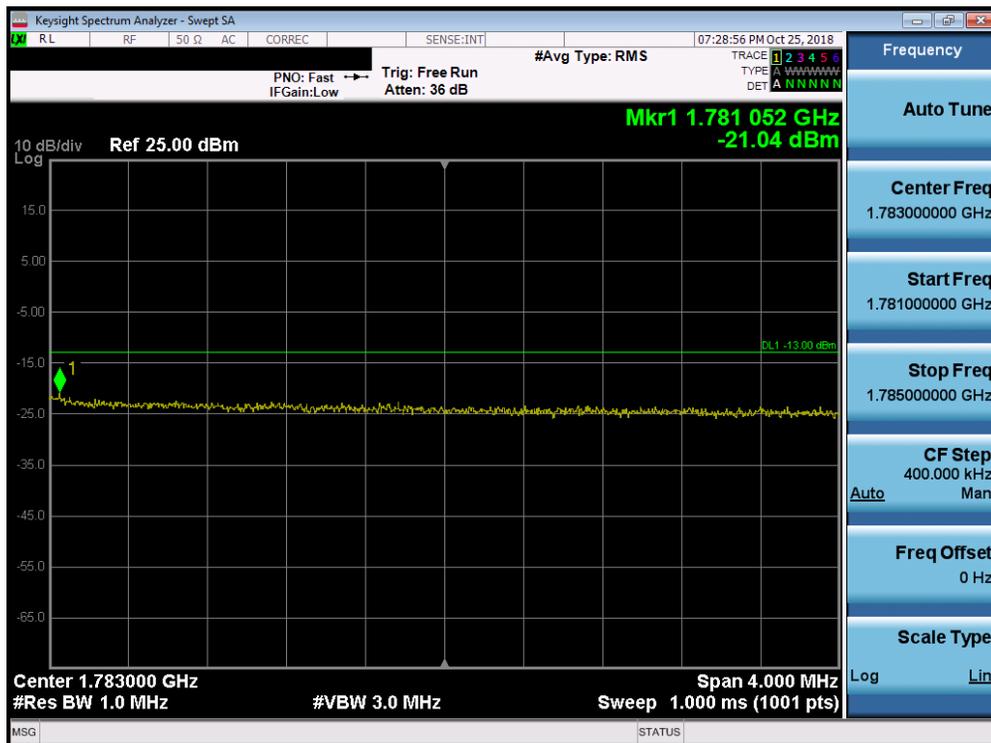


Plot 7-304. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 179 of 374

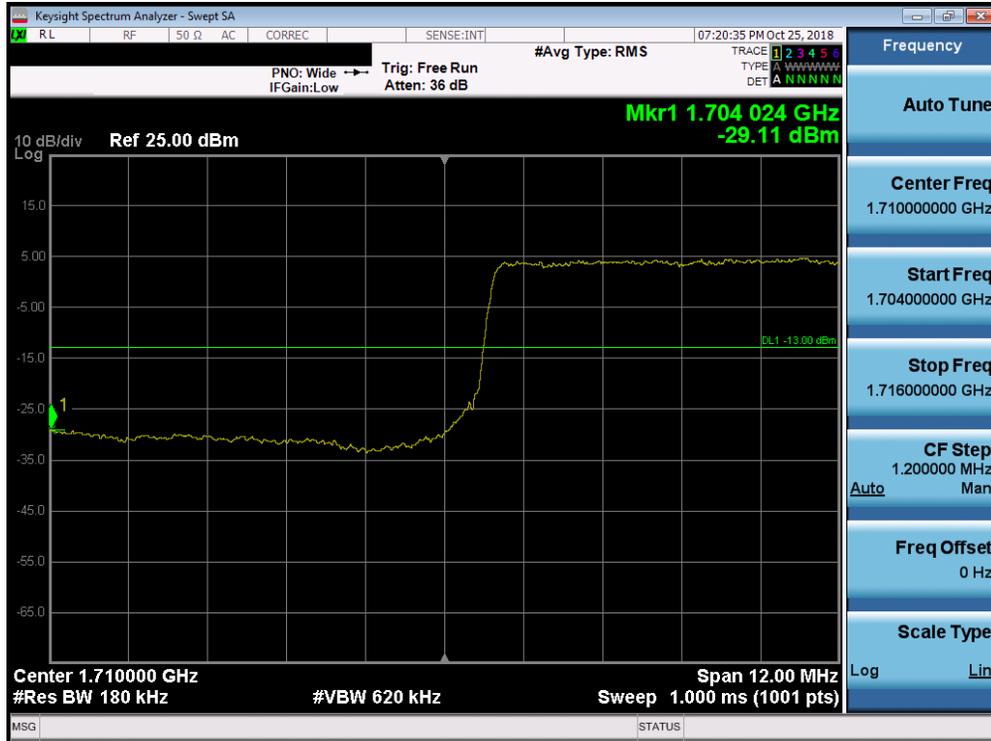


Plot 7-305. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

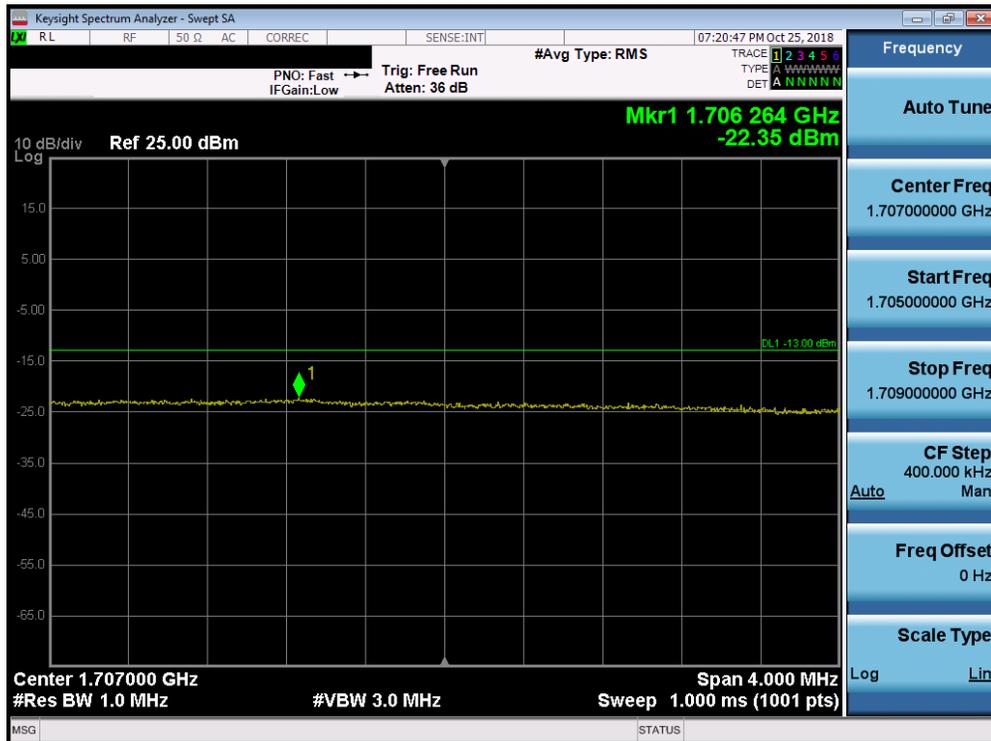


Plot 7-306. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 180 of 374

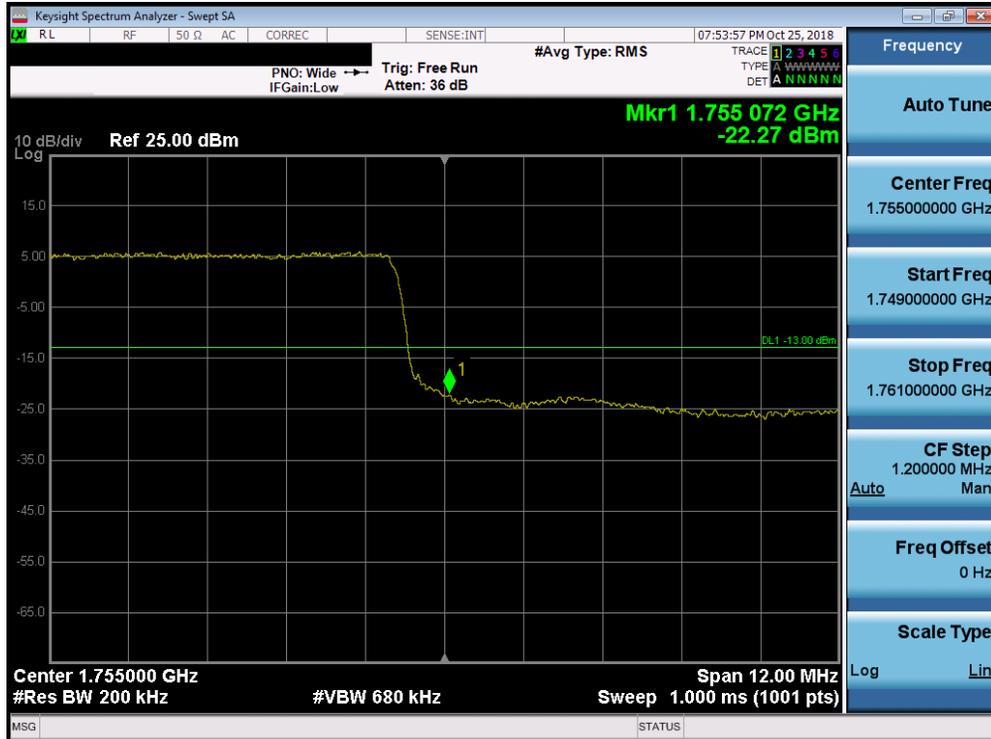


Plot 7-307. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

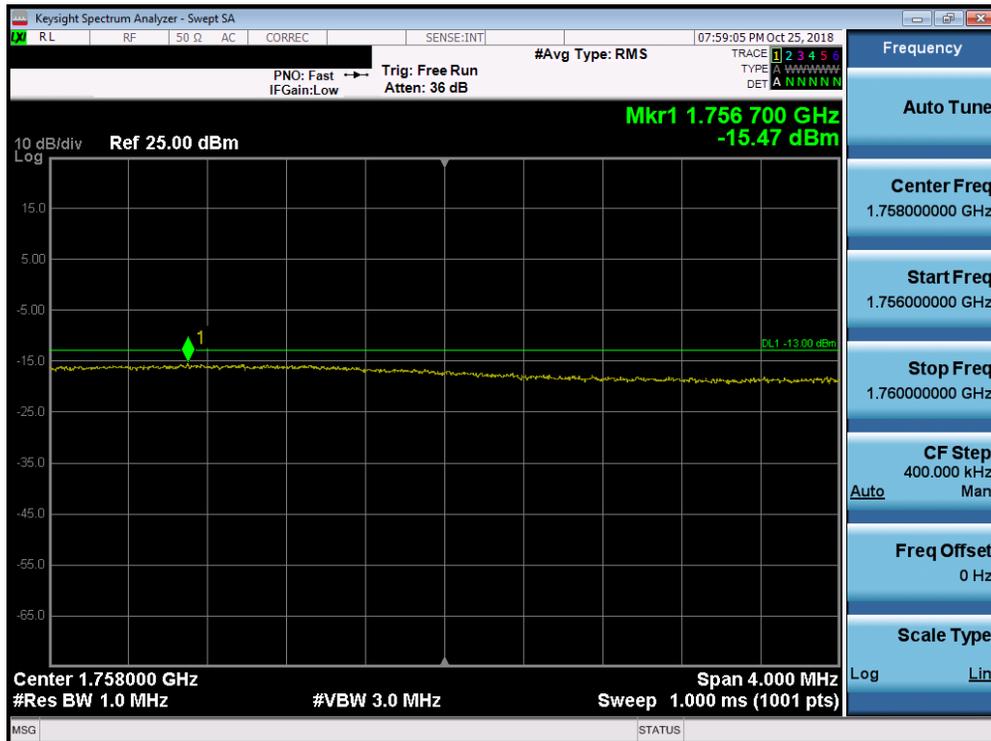


Plot 7-308. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 181 of 374

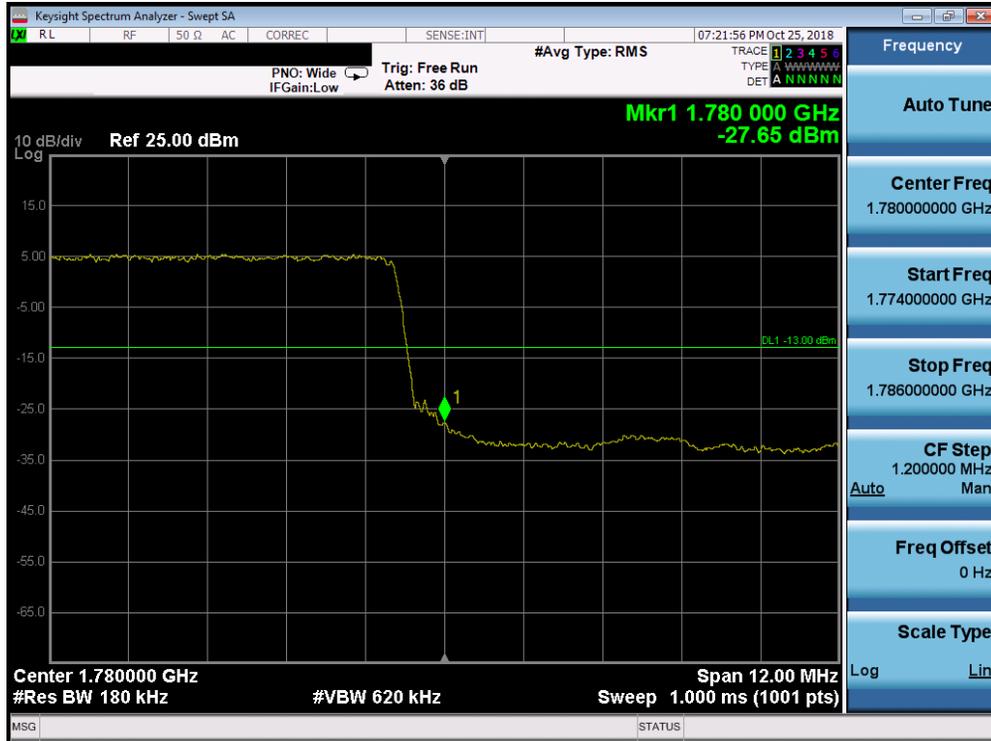


Plot 7-309. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

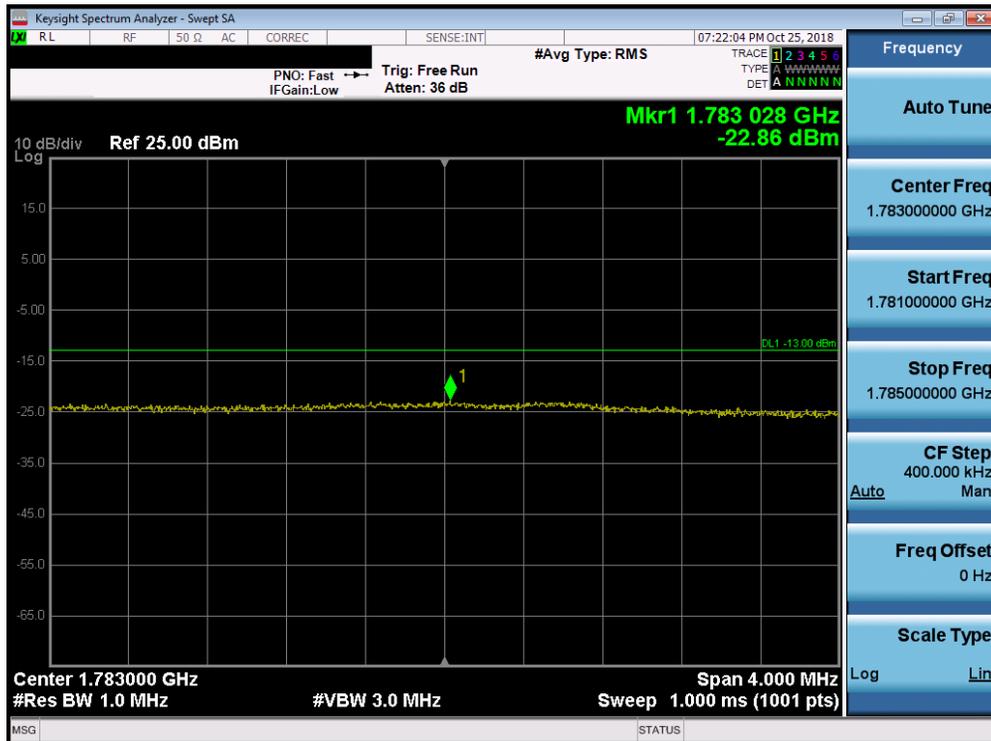


Plot 7-310. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 182 of 374

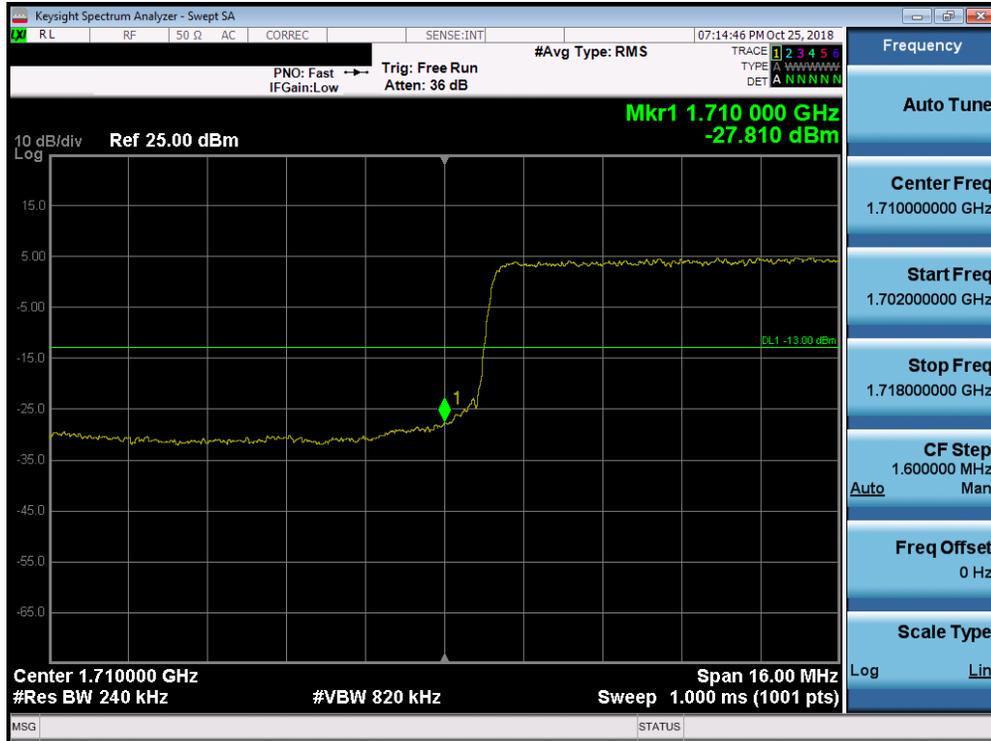


Plot 7-311. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

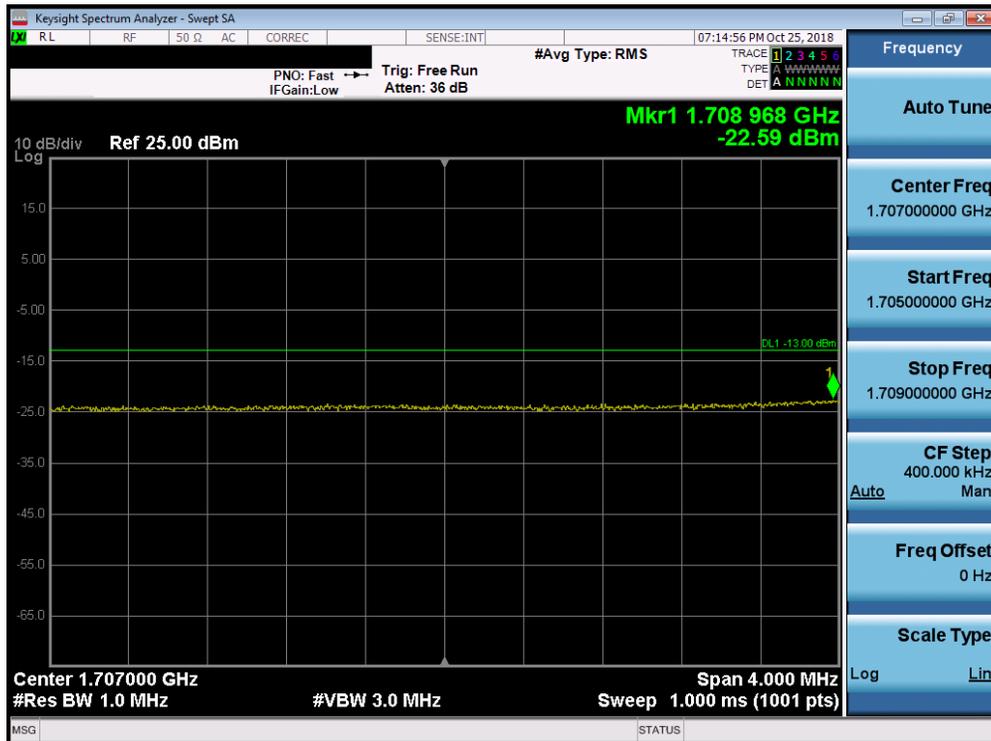


Plot 7-312. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 183 of 374

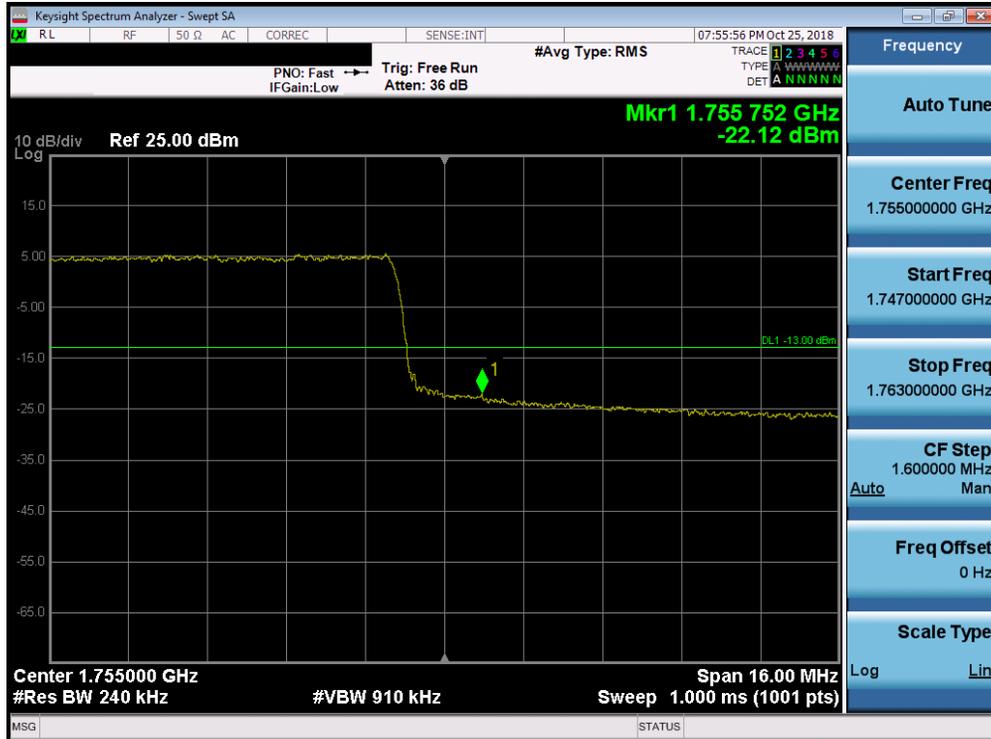


Plot 7-313. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

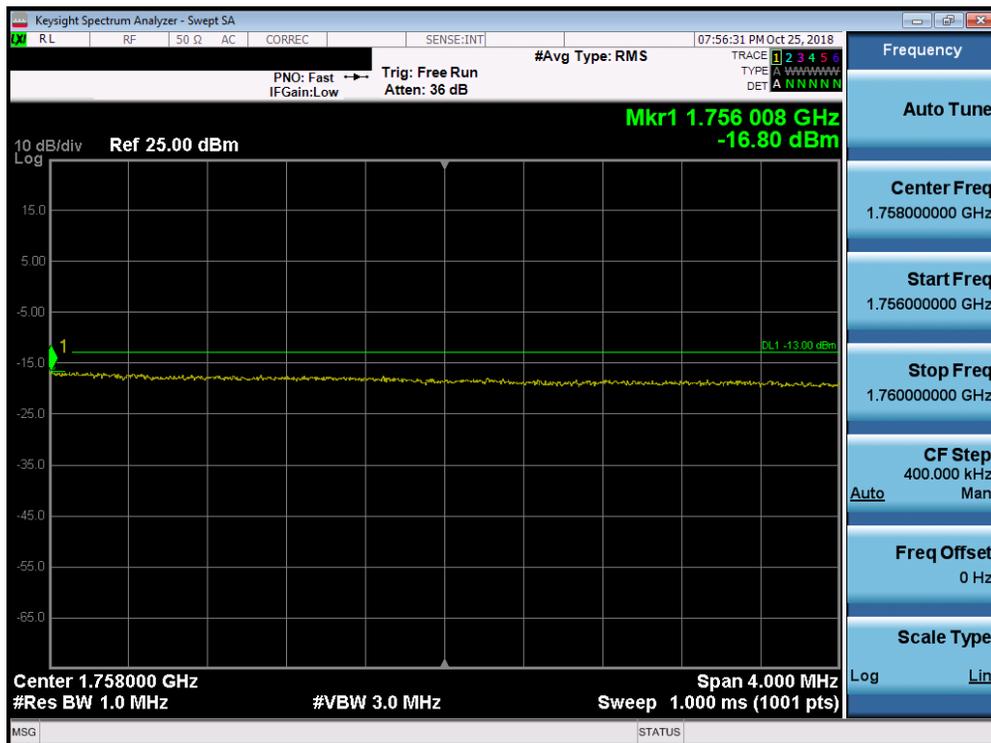


Plot 7-314. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 184 of 374



Plot 7-315. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

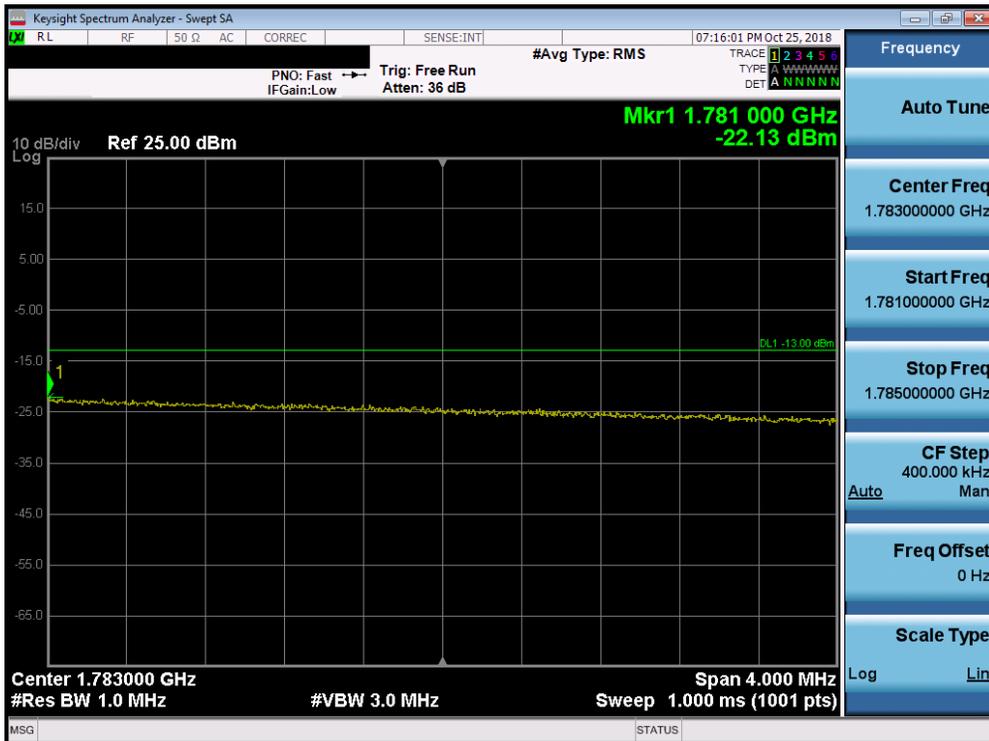


Plot 7-316. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 185 of 374



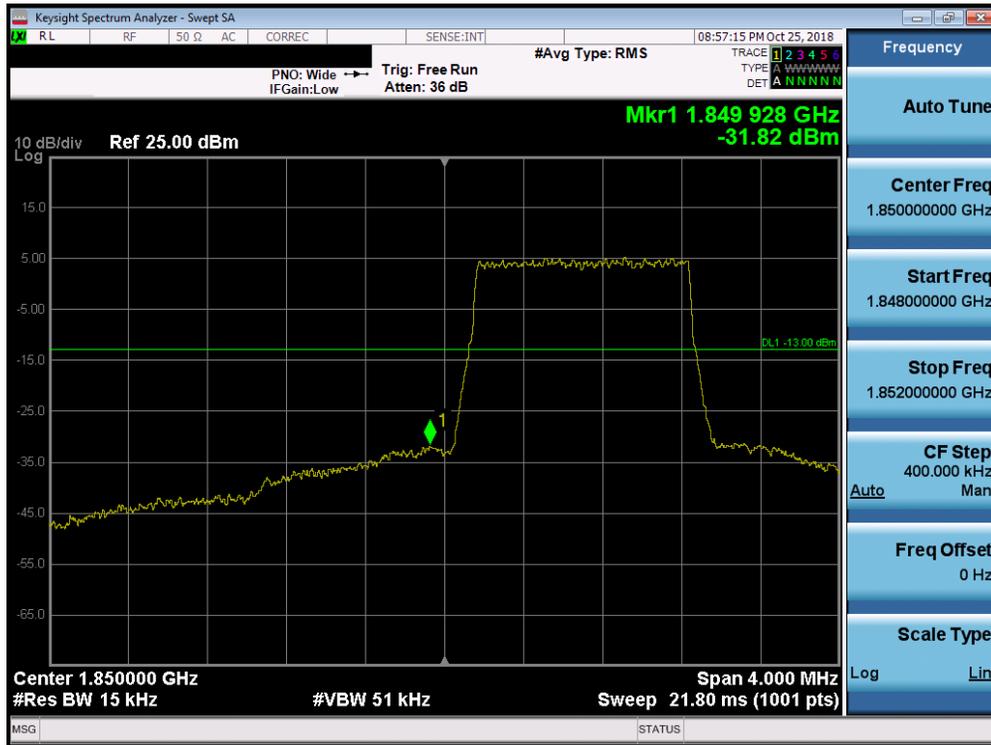
Plot 7-317. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



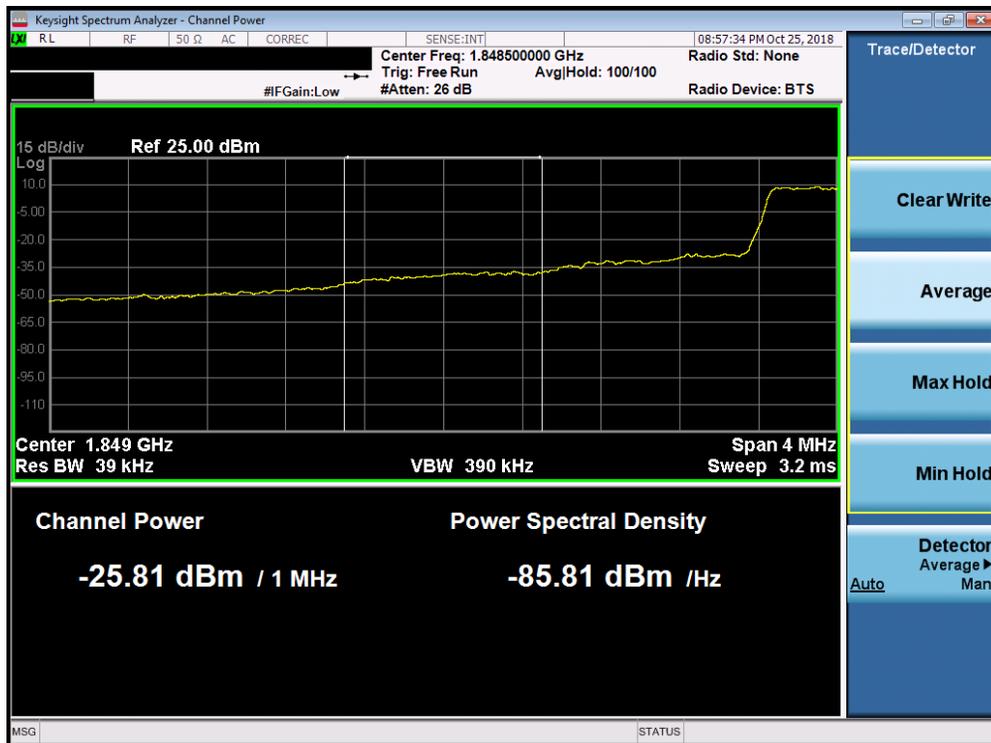
Plot 7-318. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 186 of 374

**Band 25/2**



**Plot 7-319. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)**

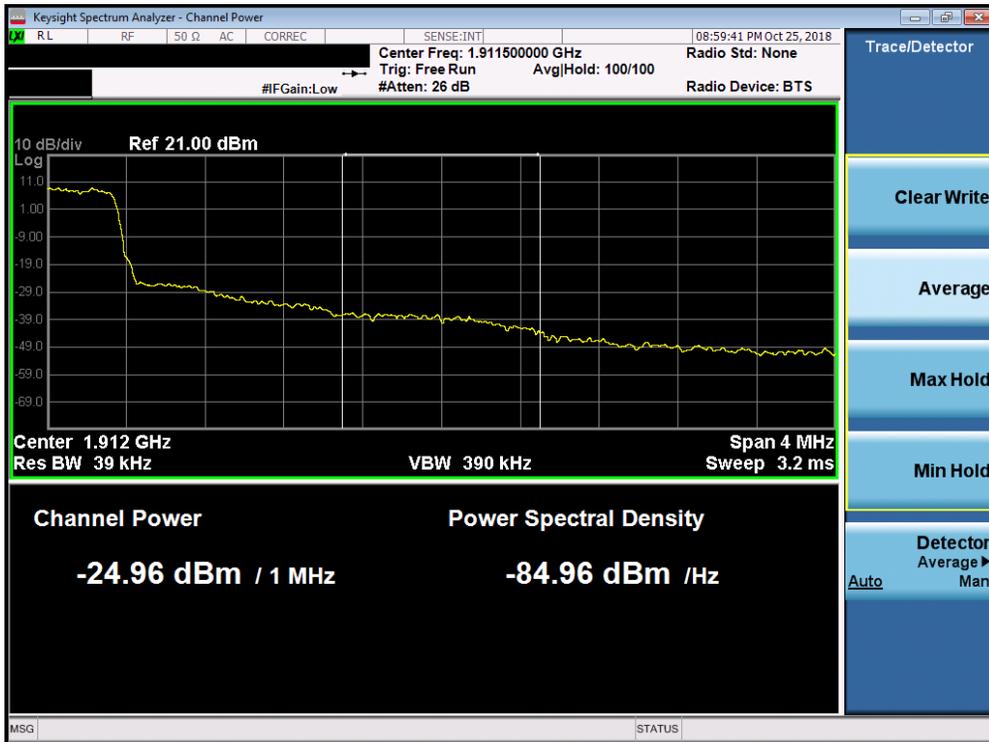


**Plot 7-320. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)**

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 187 of 374



Plot 7-321. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

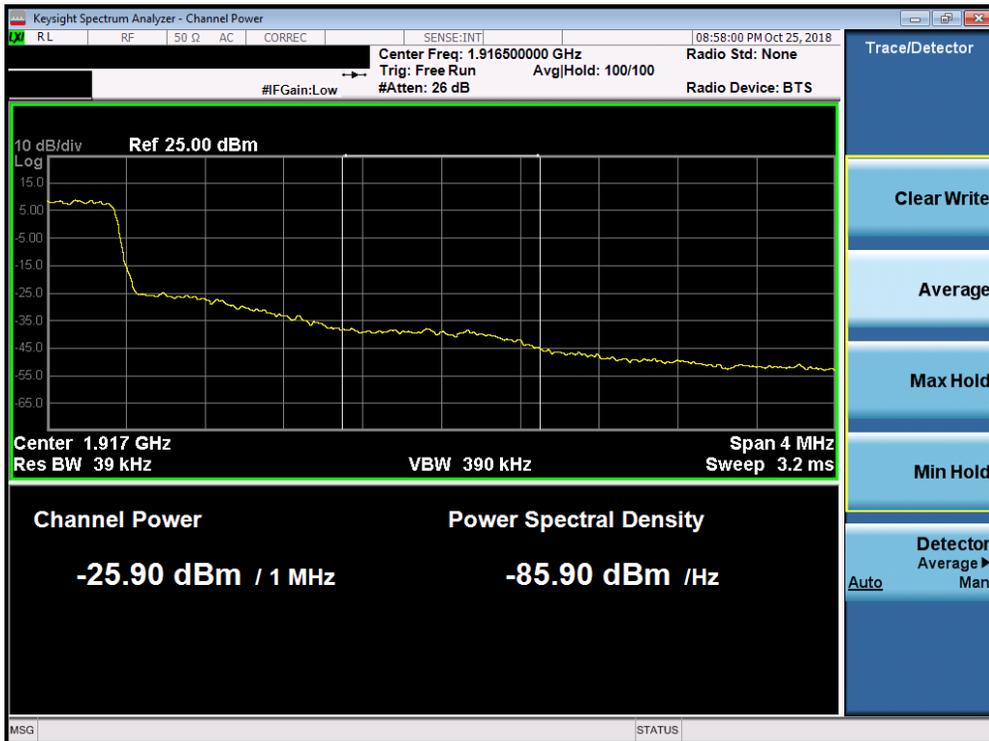


Plot 7-322. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 188 of 374

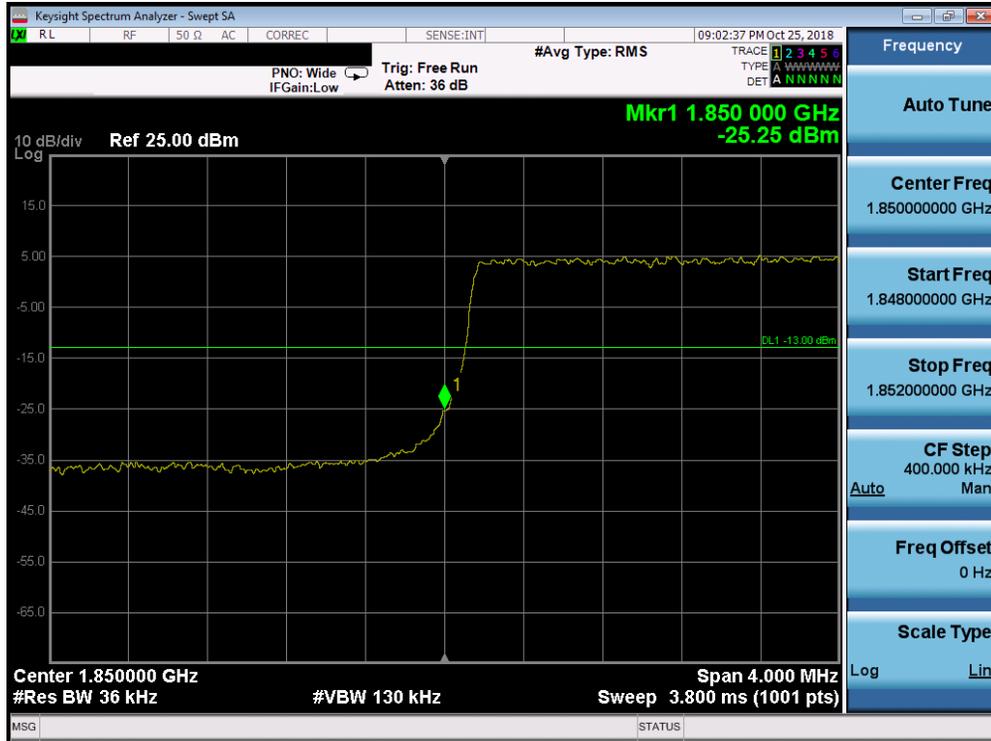


Plot 7-323. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

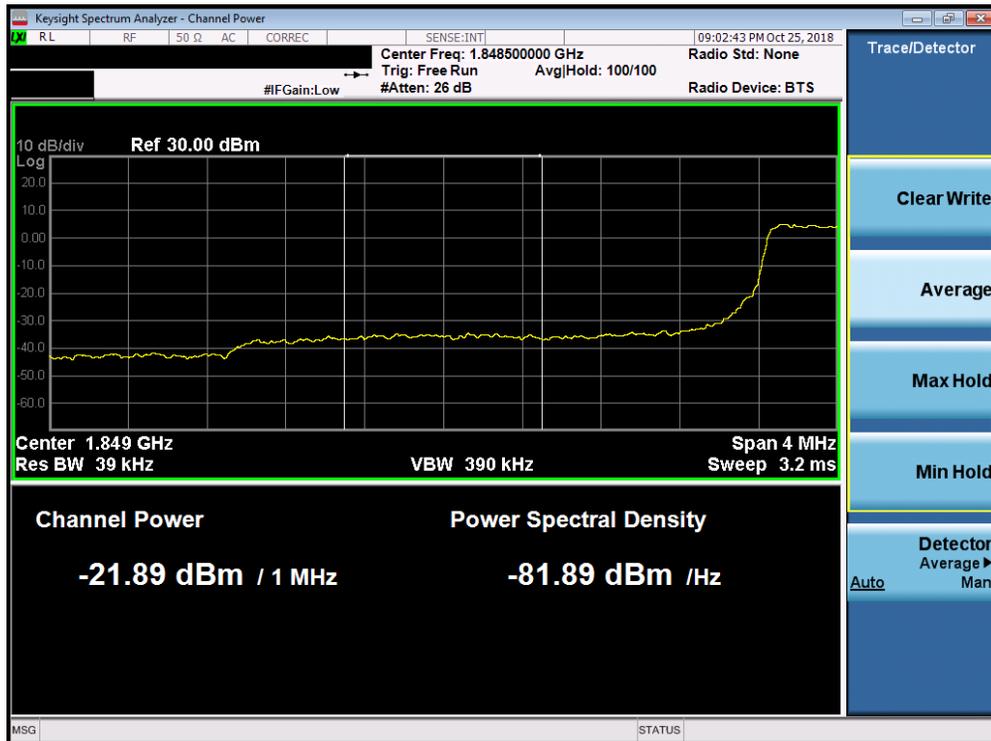


Plot 7-324. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 189 of 374

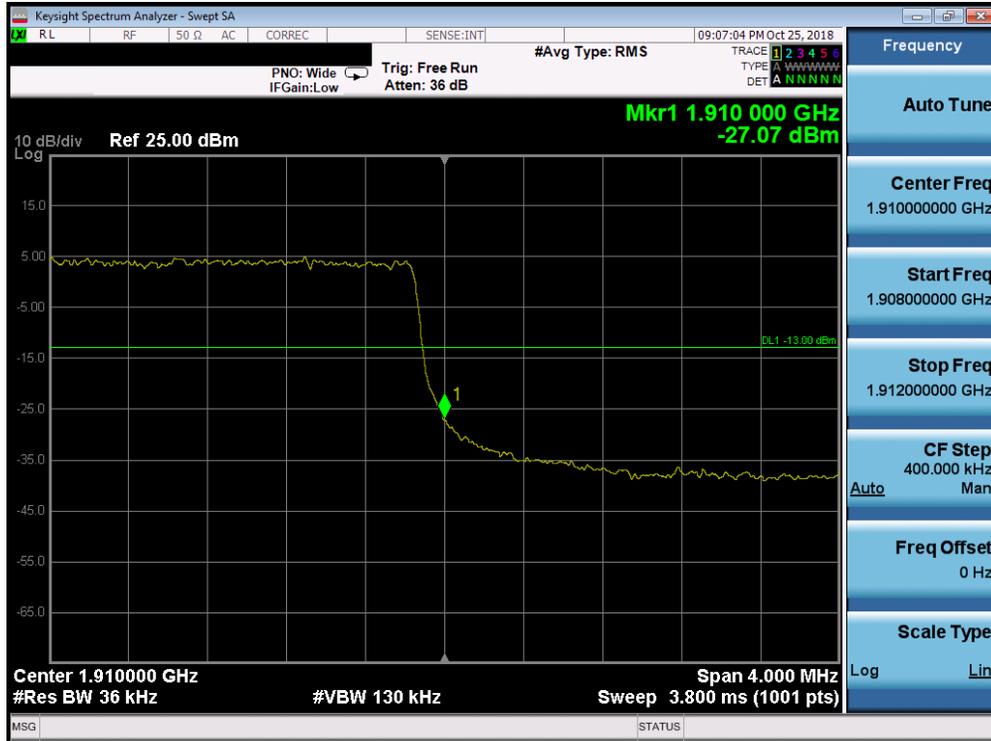


Plot 7-325. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

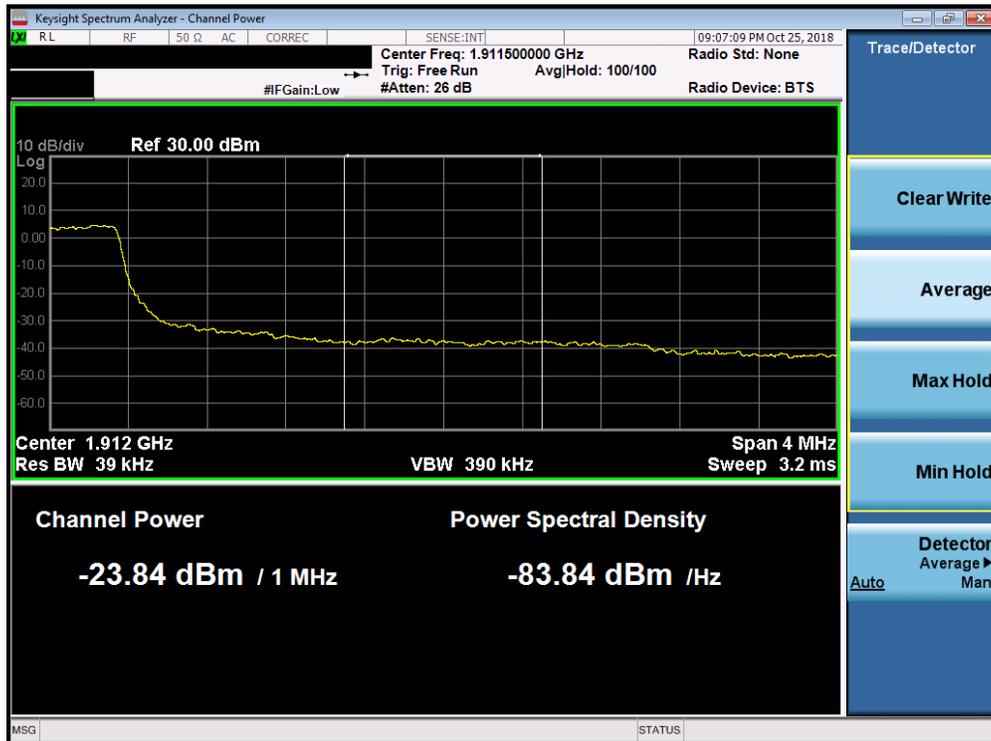


Plot 7-326. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 190 of 374

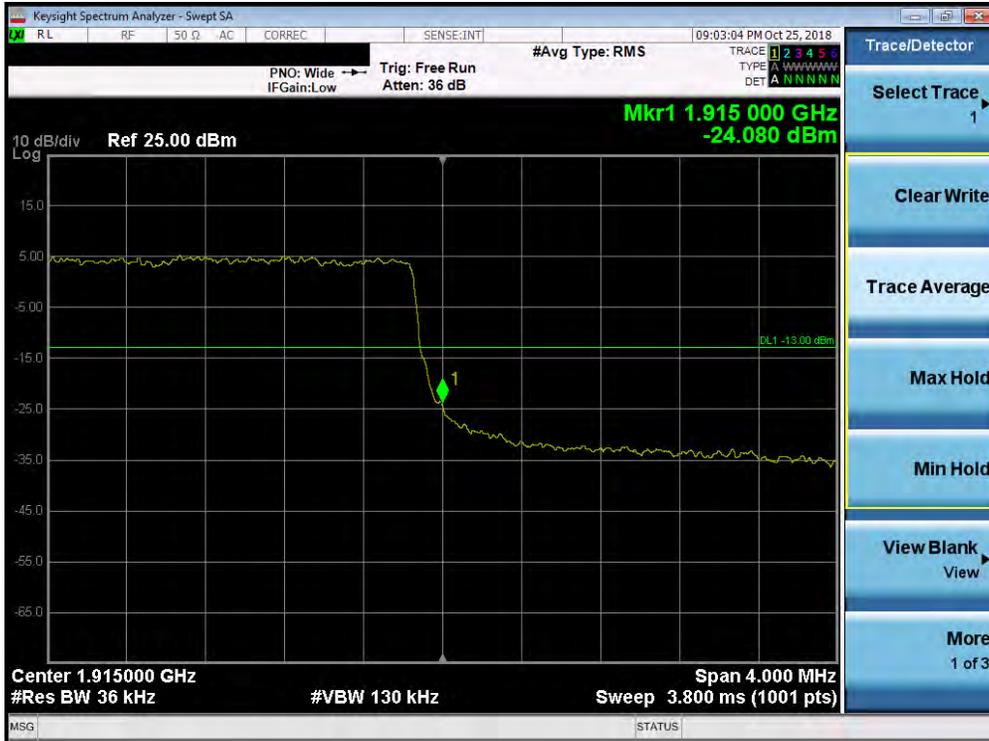


Plot 7-327. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

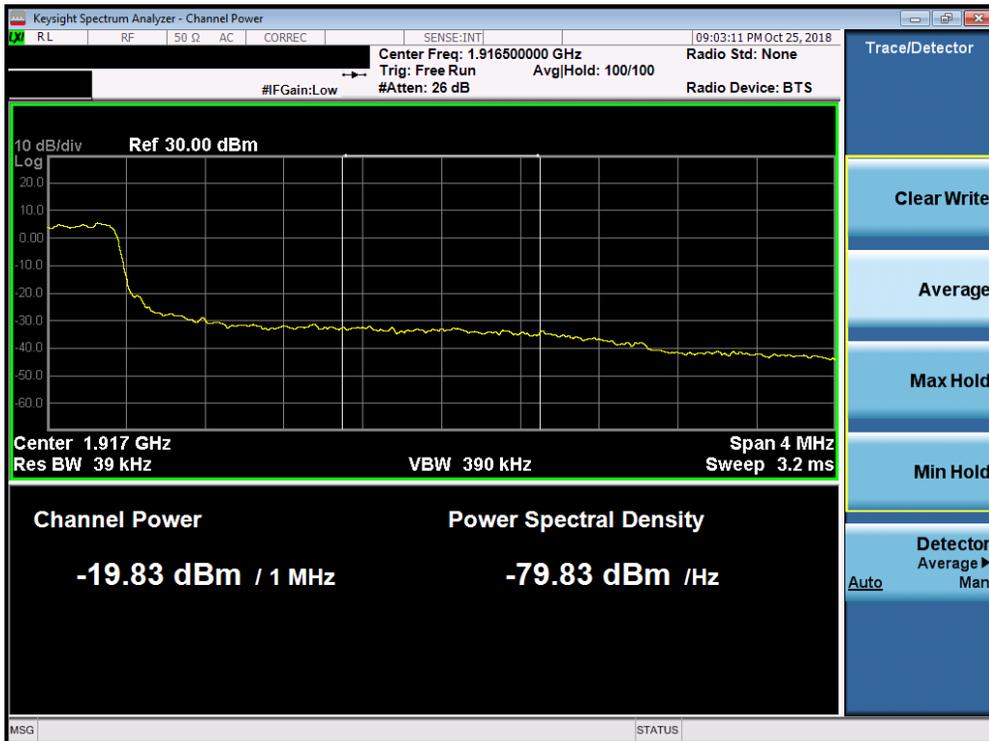


Plot 7-328. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 191 of 374

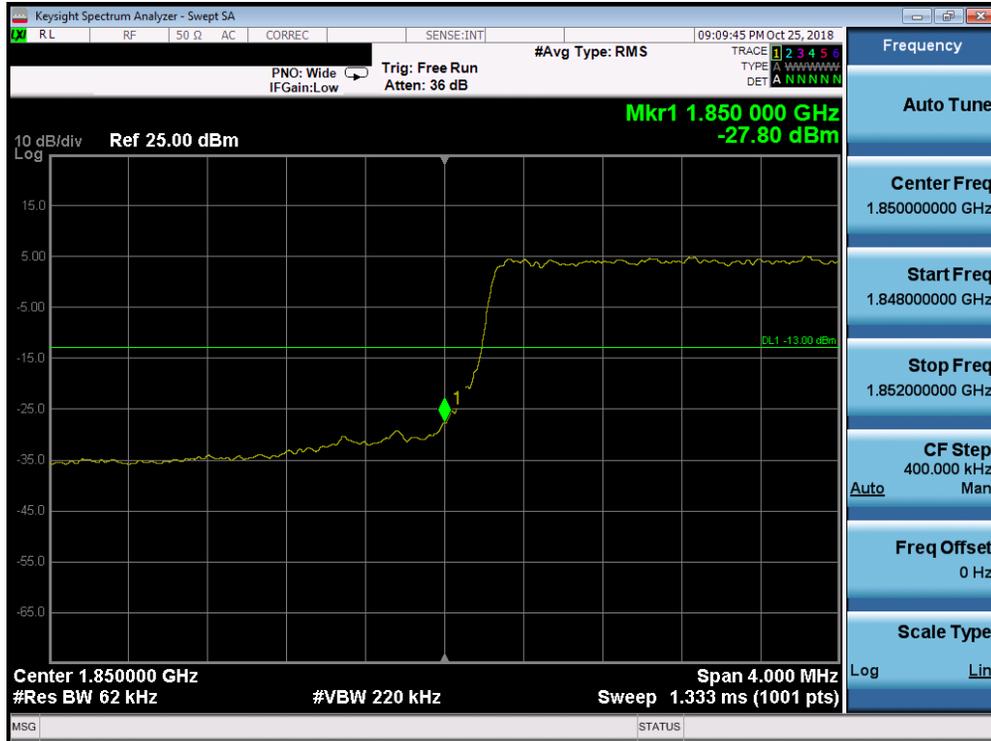


Plot 7-329. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

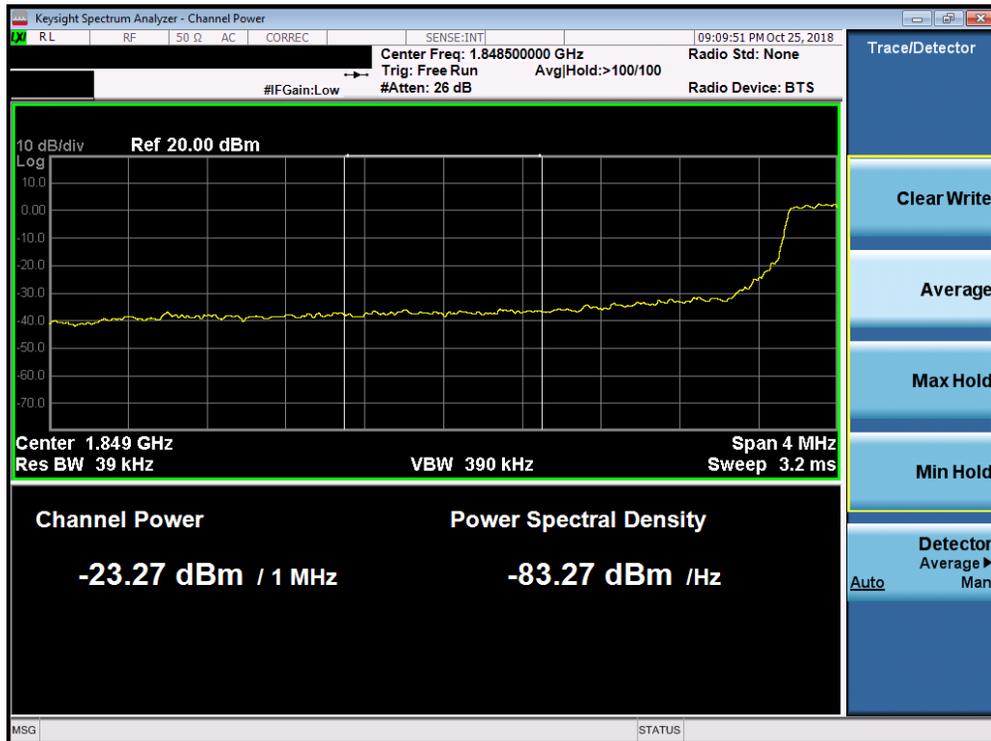


Plot 7-330. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 192 of 374

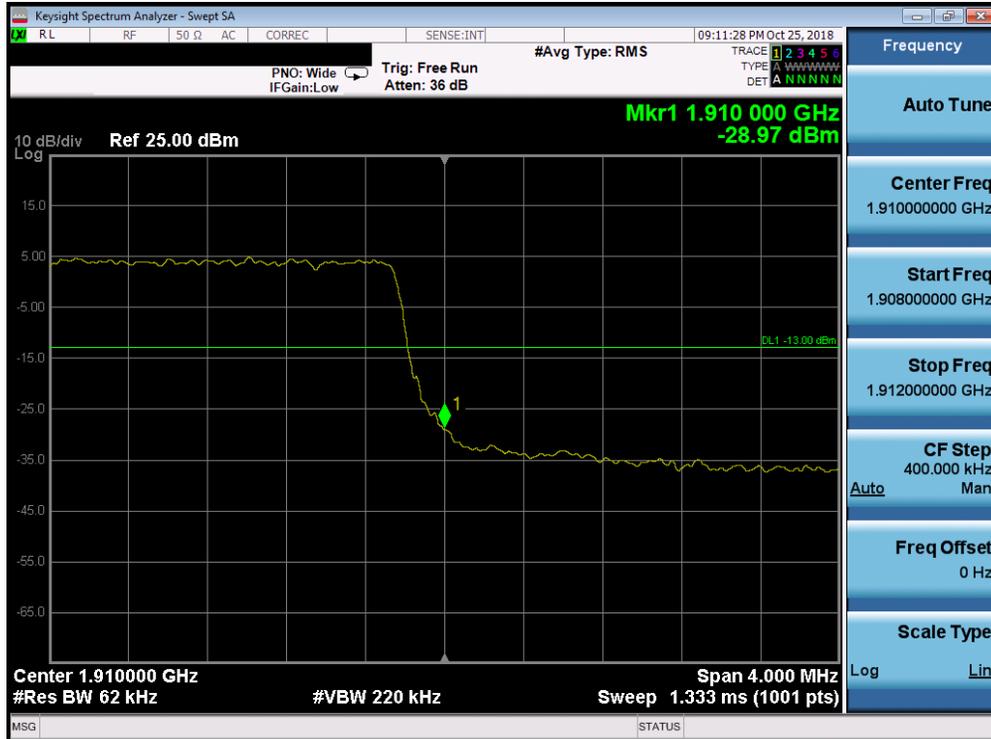


Plot 7-331. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

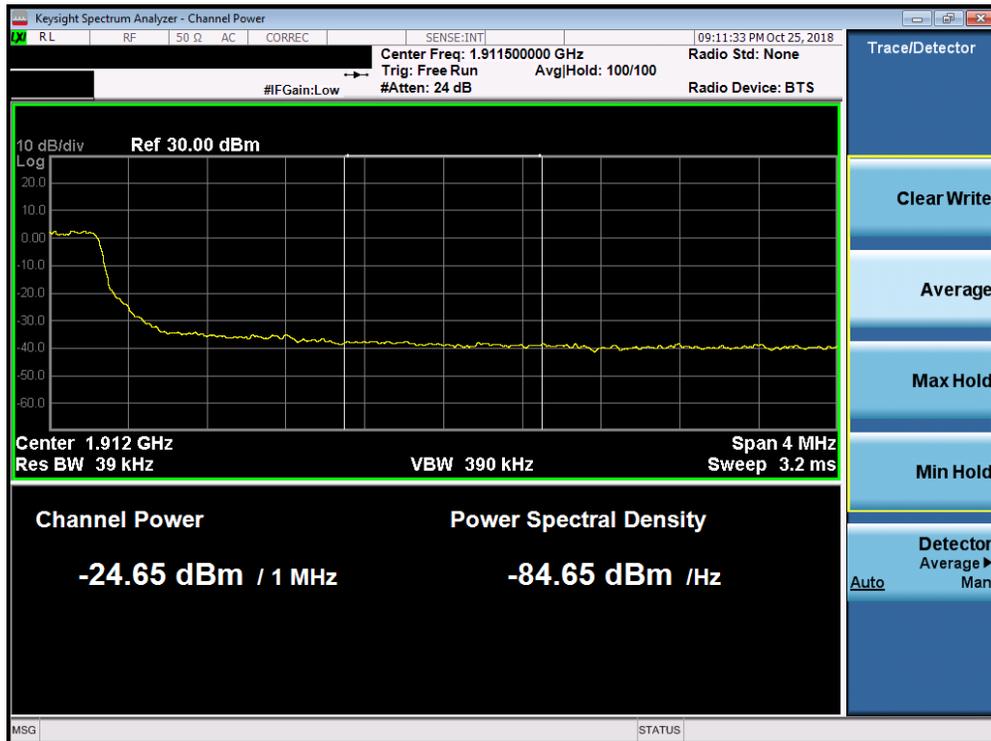


Plot 7-332. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 193 of 374



Plot 7-333. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

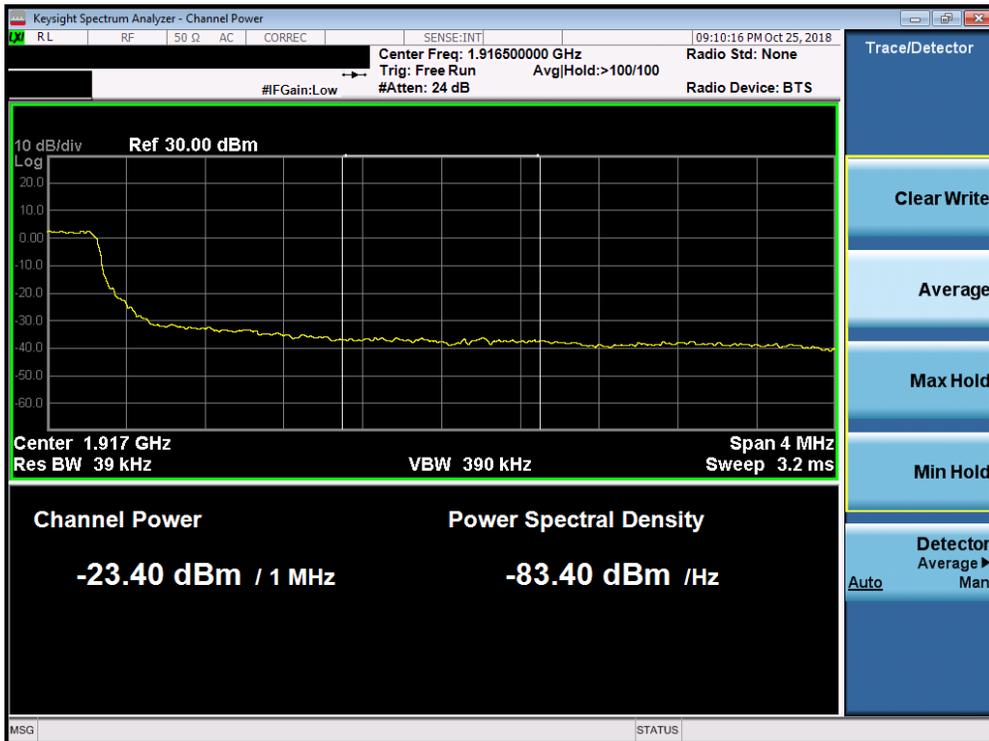


Plot 7-334. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 194 of 374

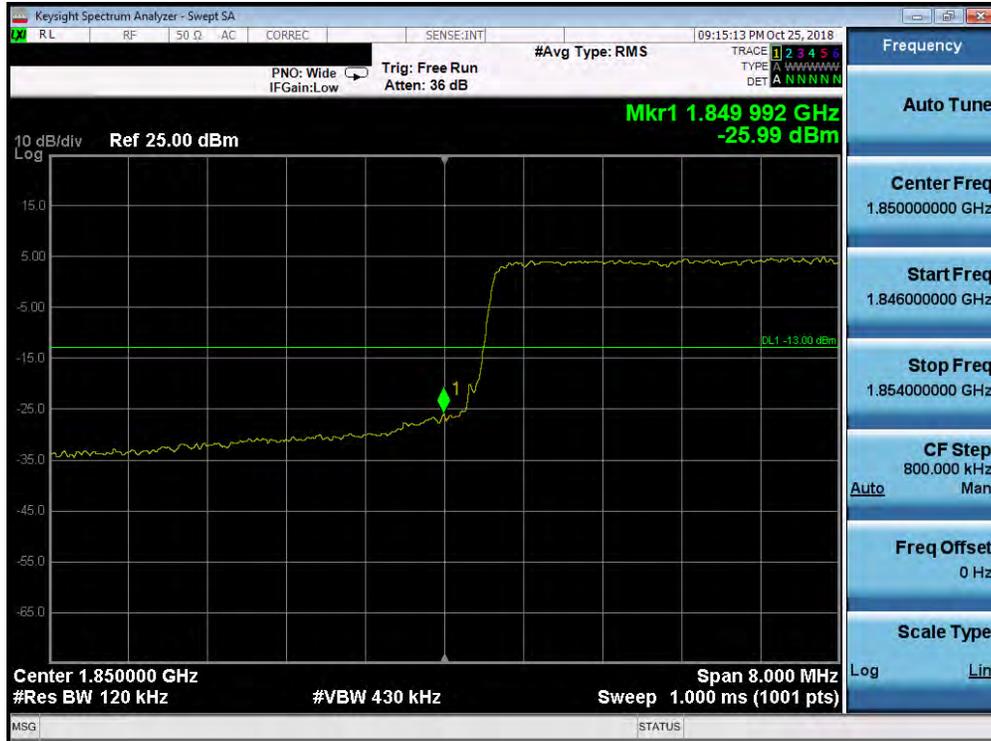


Plot 7-335. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

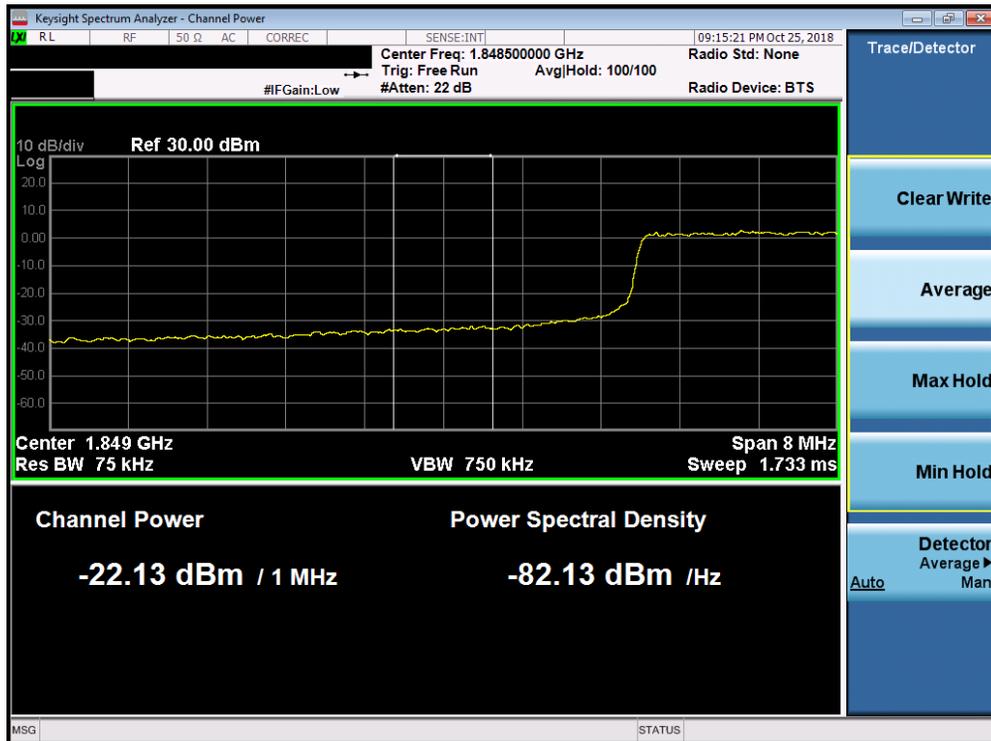


Plot 7-336. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 195 of 374

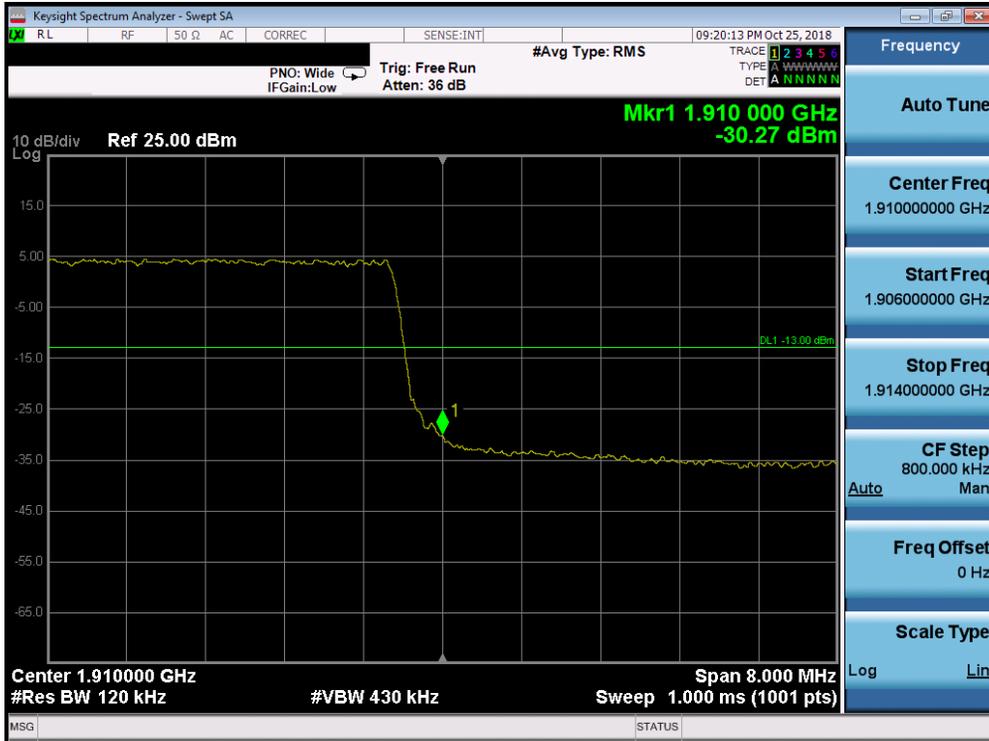


Plot 7-337. Lower Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

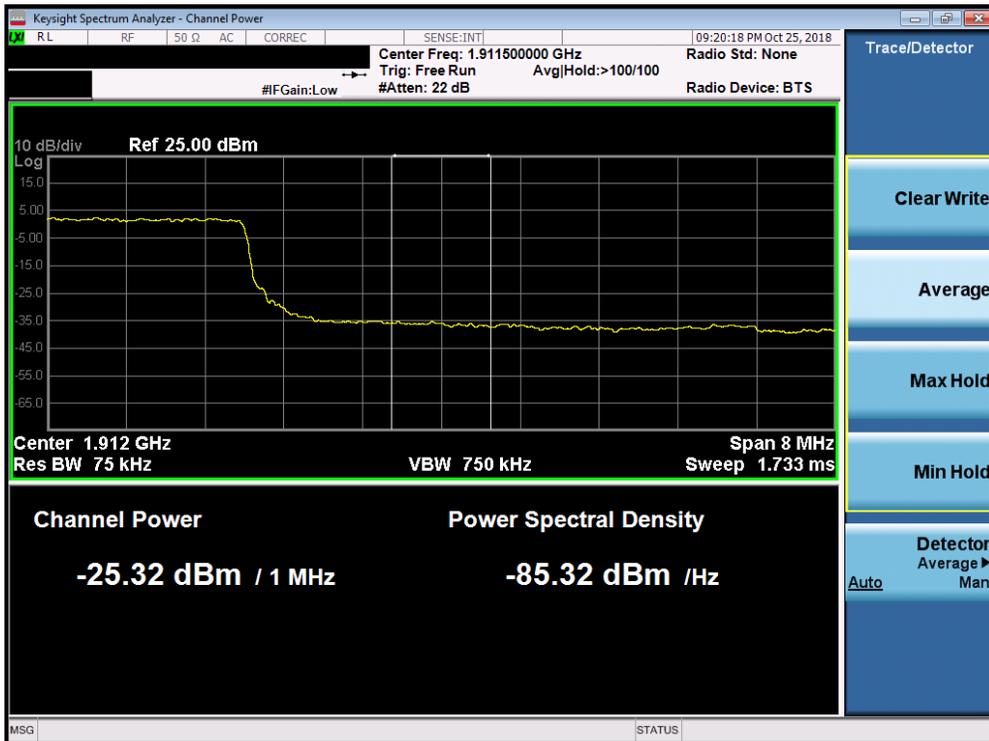


Plot 7-338. Lower Extended Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 196 of 374



Plot 7-339. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

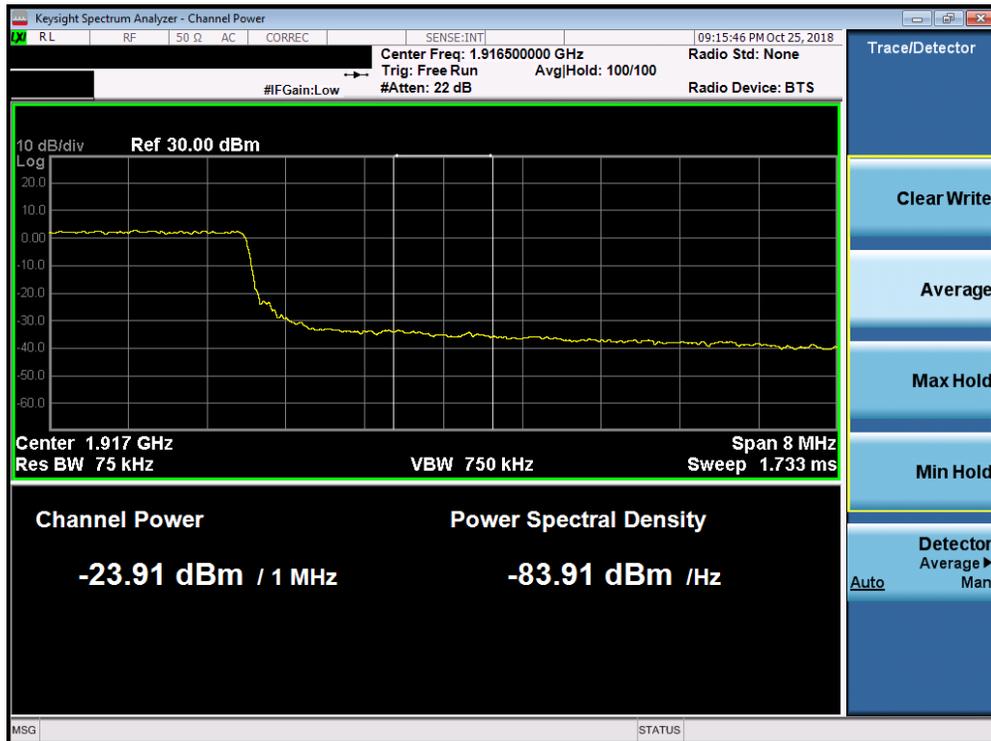


Plot 7-340. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 197 of 374

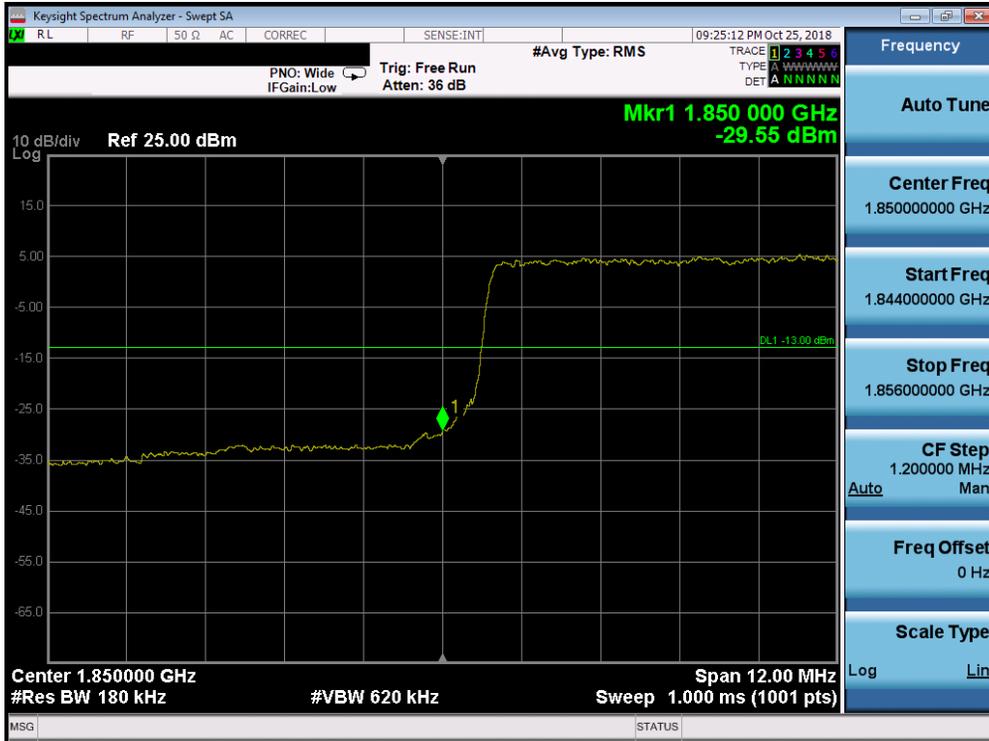


Plot 7-341. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

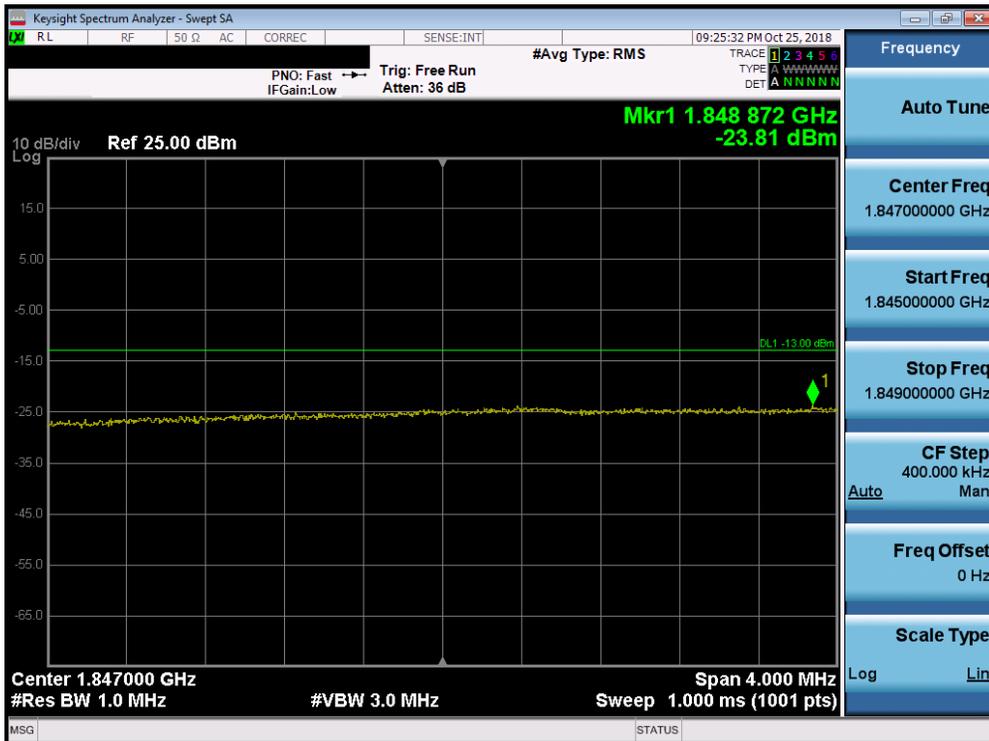


Plot 7-342. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 198 of 374

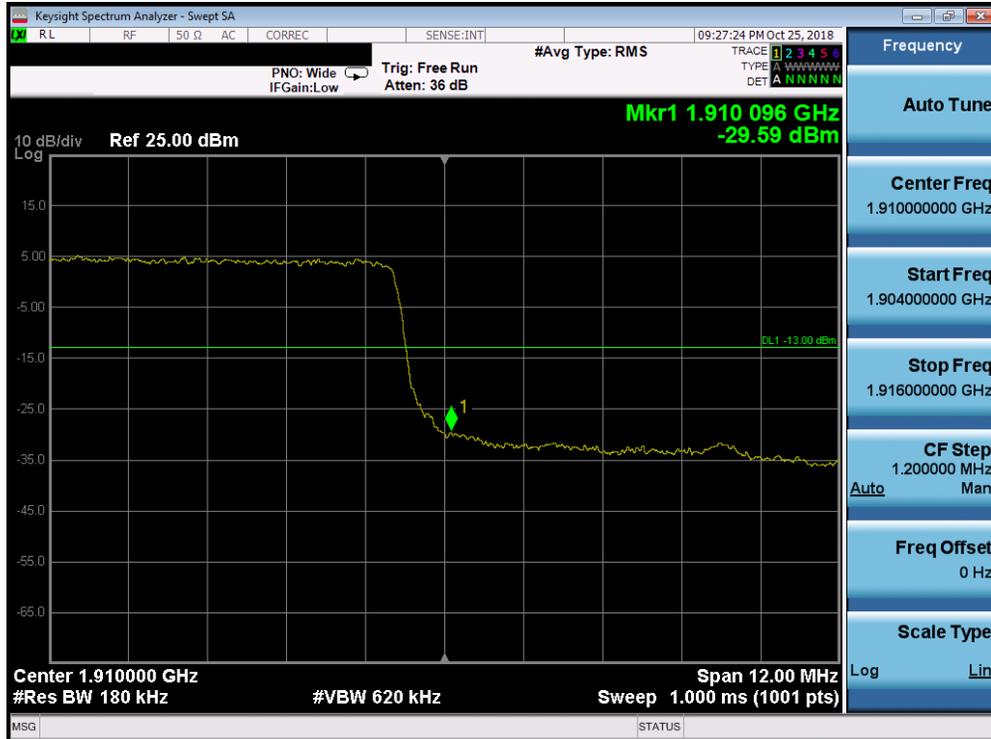


Plot 7-343. Lower Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

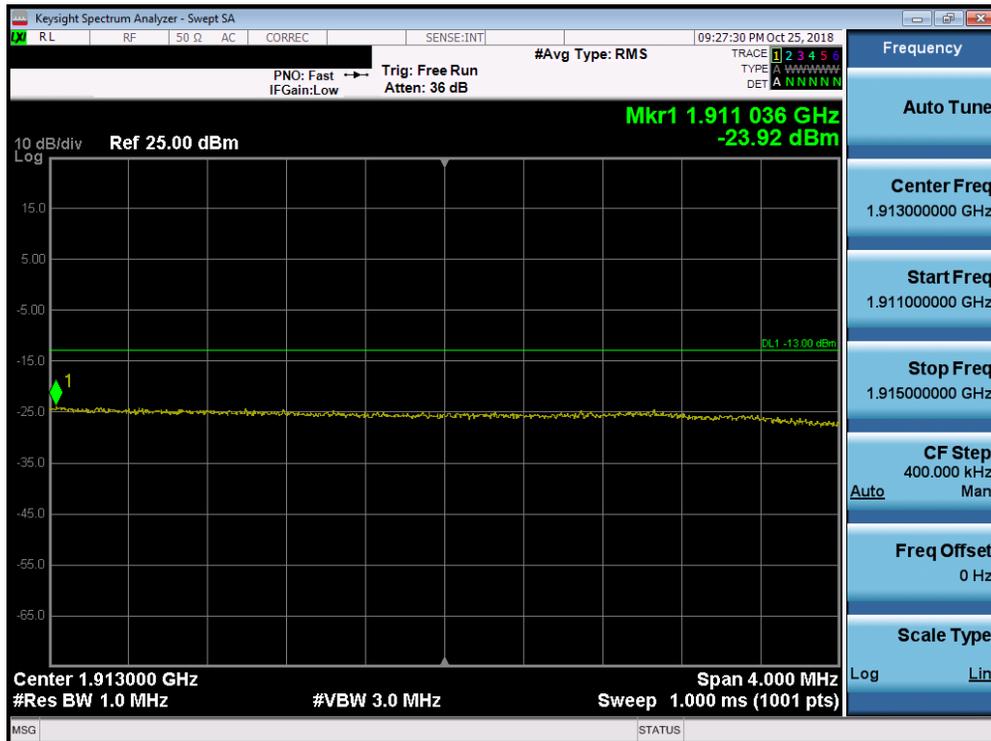


Plot 7-344. Lower Extended Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 199 of 374



Plot 7-345. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

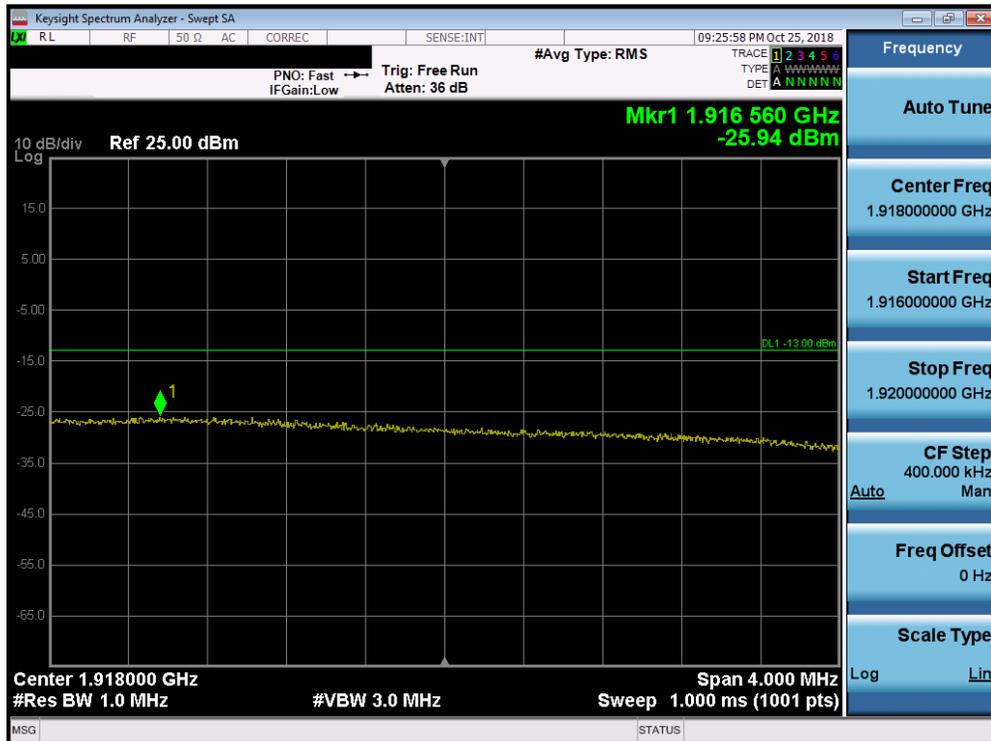


Plot 7-346. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 200 of 374

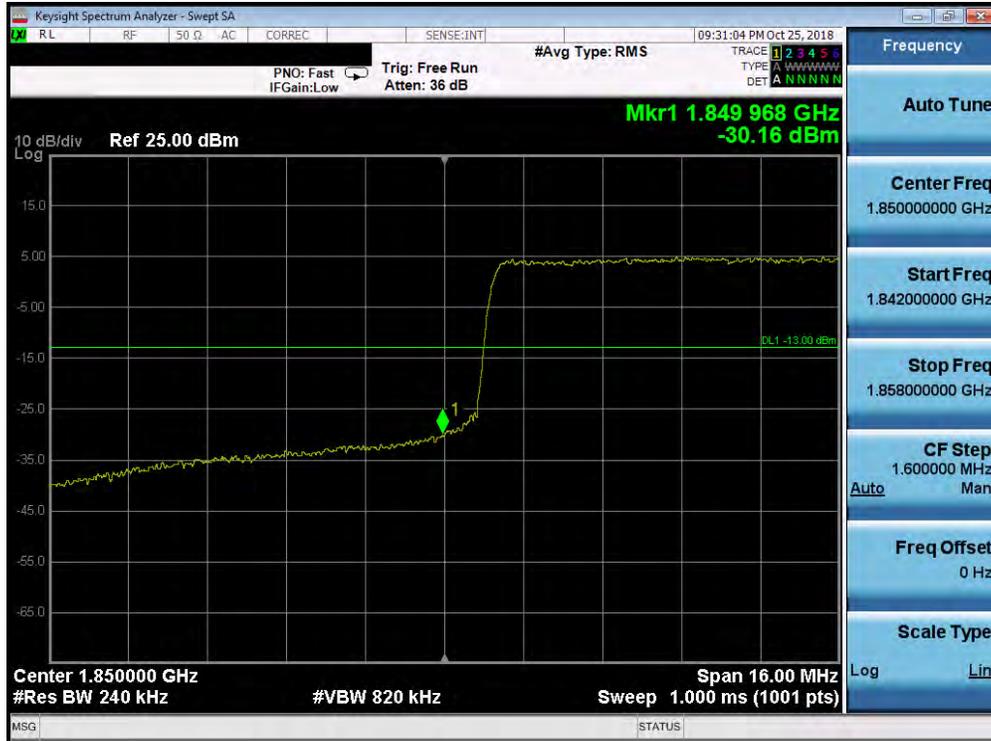


Plot 7-347. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

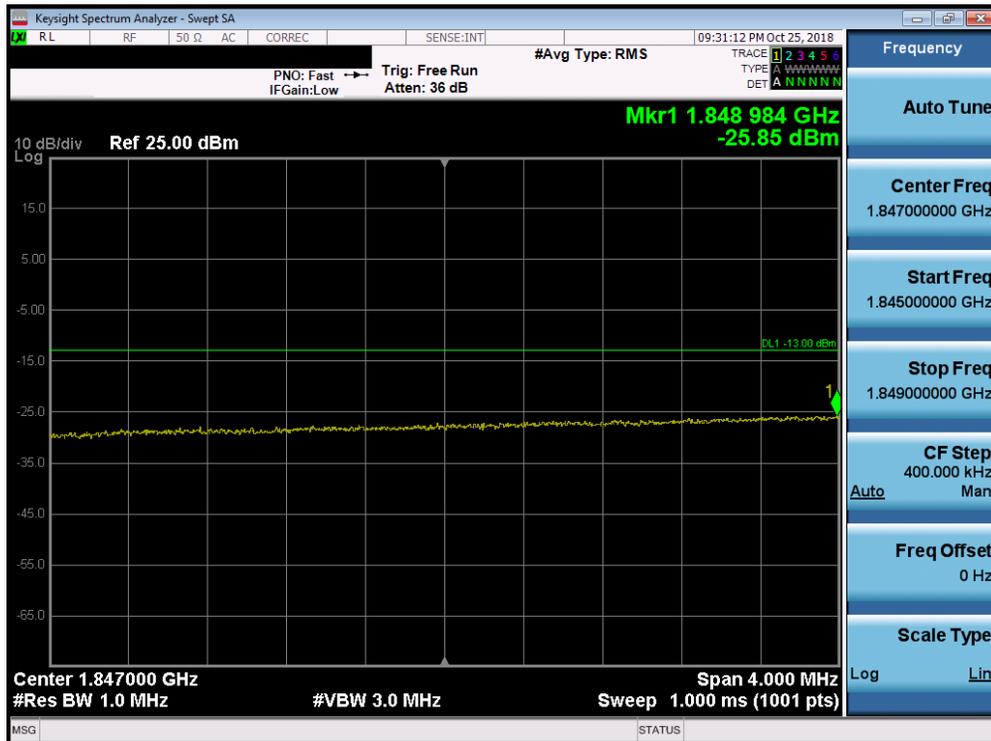


Plot 7-348. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 201 of 374

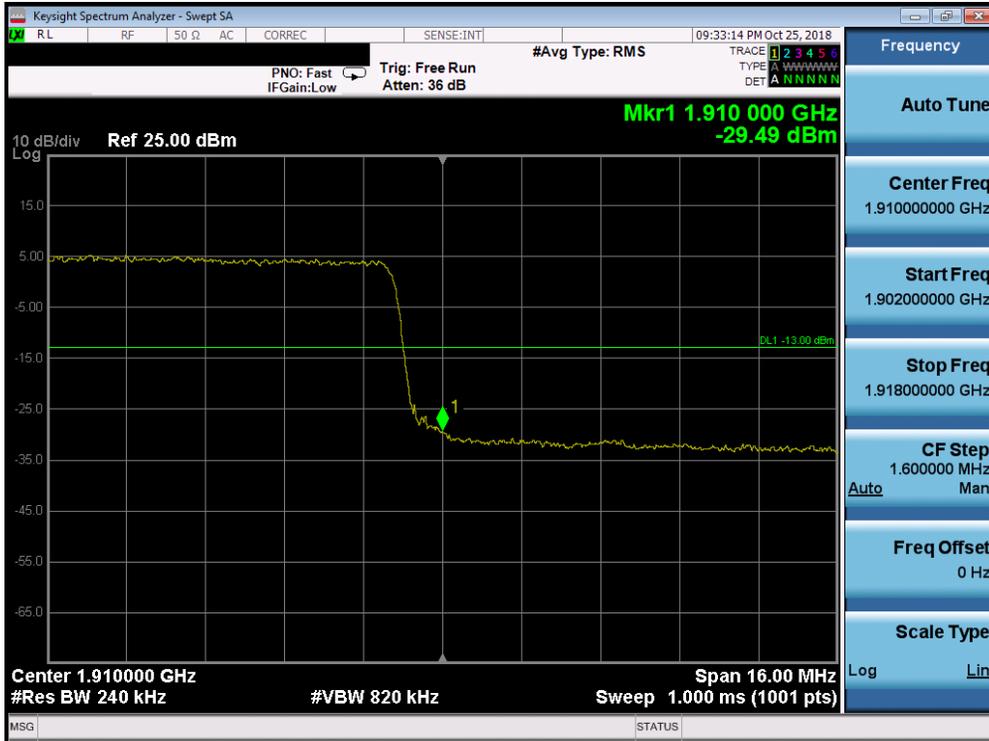


Plot 7-349. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-350. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 202 of 374



Plot 7-351. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

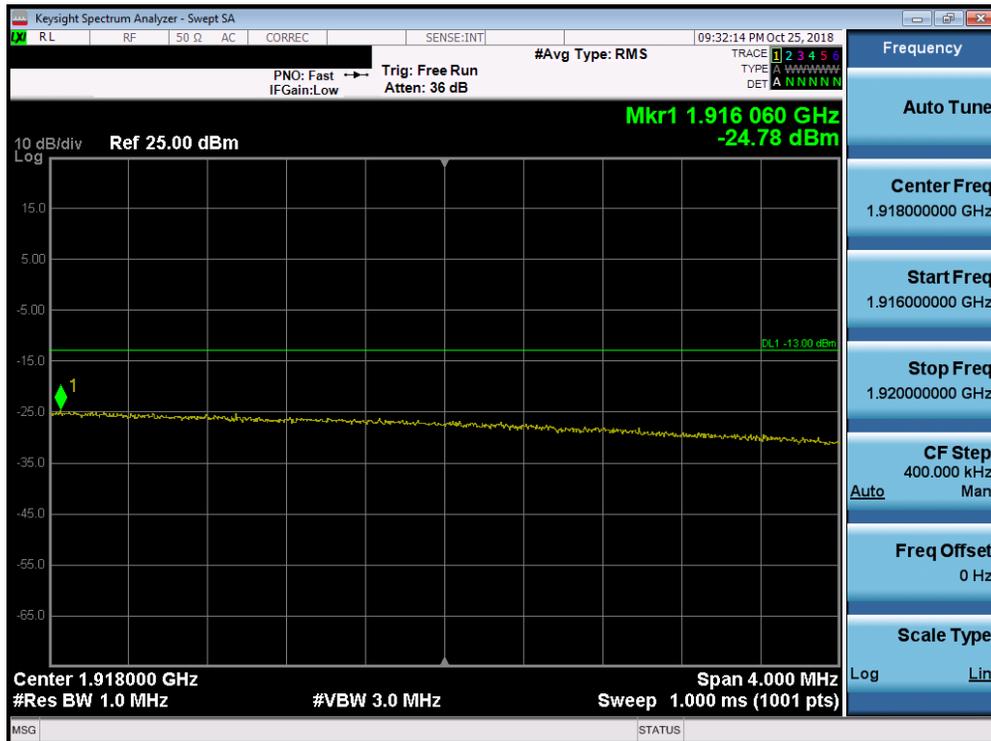


Plot 7-352. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 203 of 374



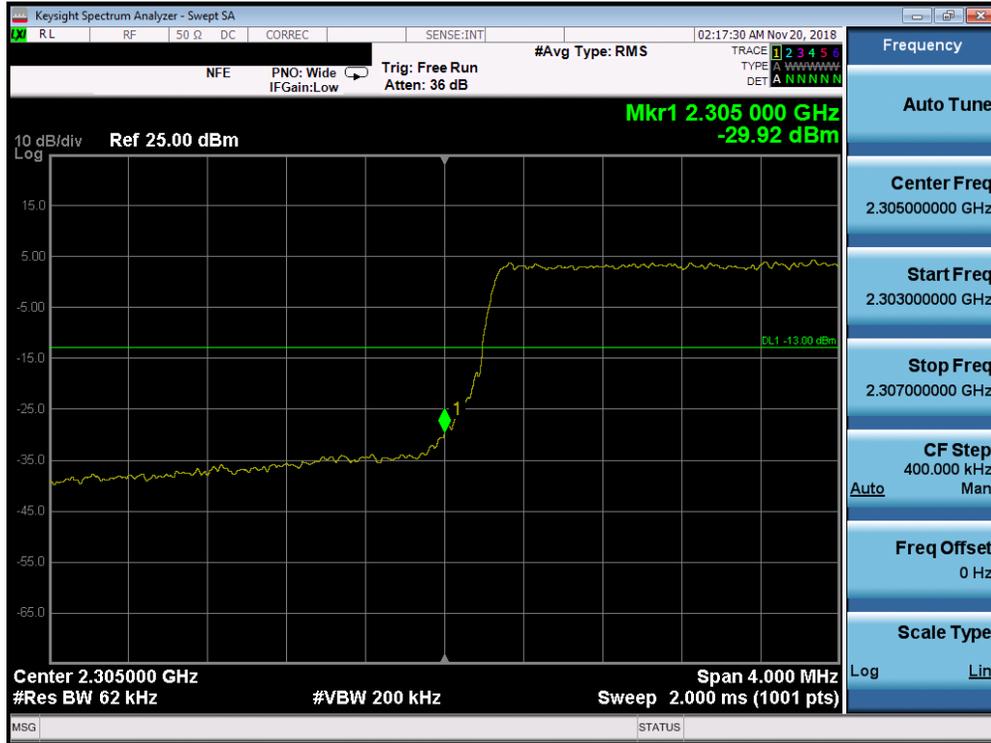
Plot 7-353. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-354. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 204 of 374

**Band 30**



Plot 7-355. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-356. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 205 of 374

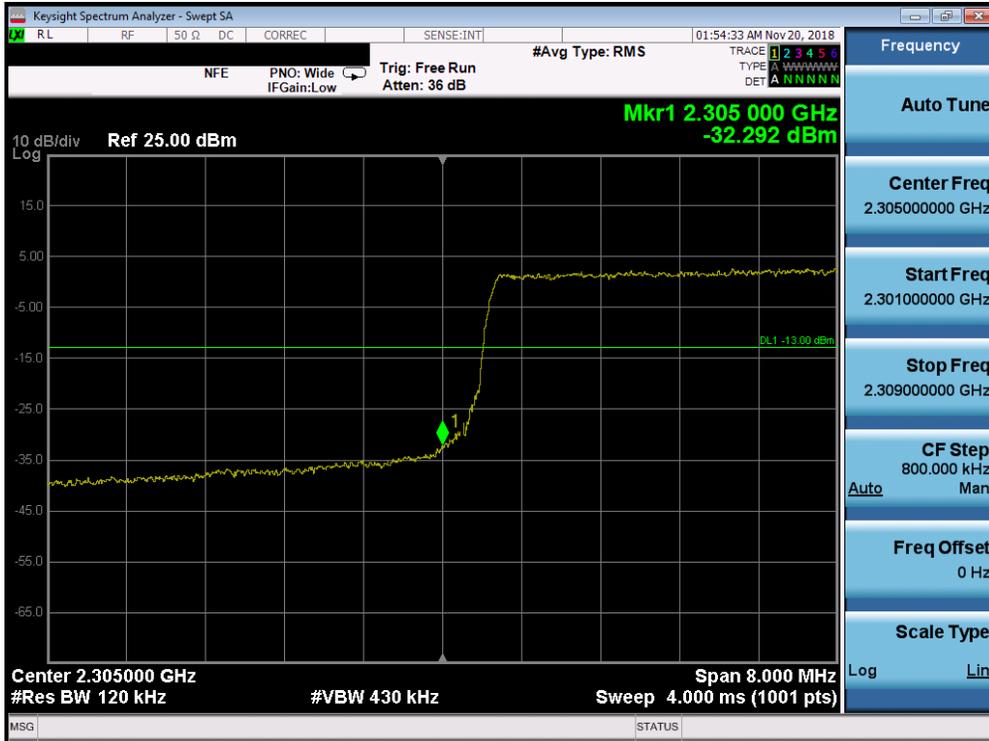


Plot 7-357. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-358. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 206 of 374

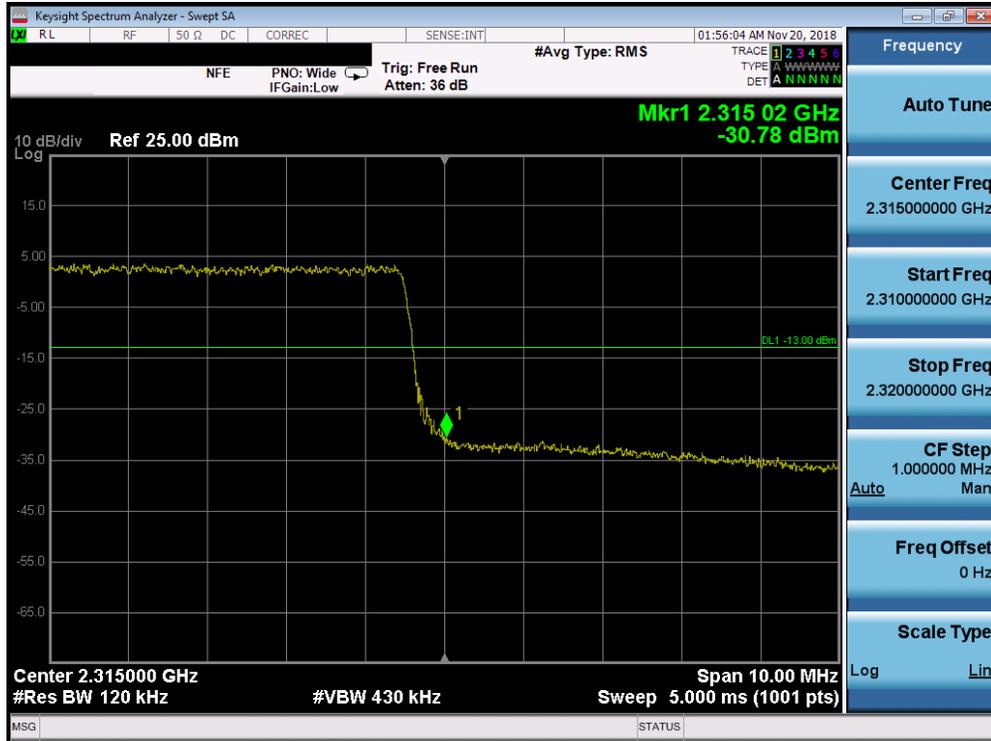


Plot 7-359. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

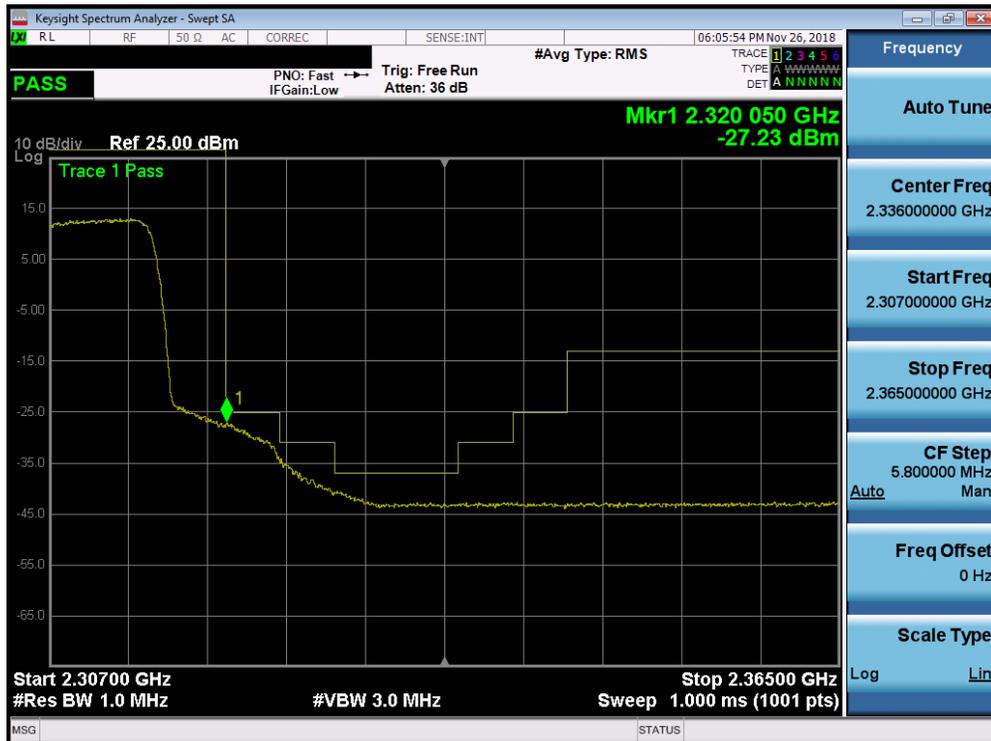


Plot 7-360. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 207 of 374



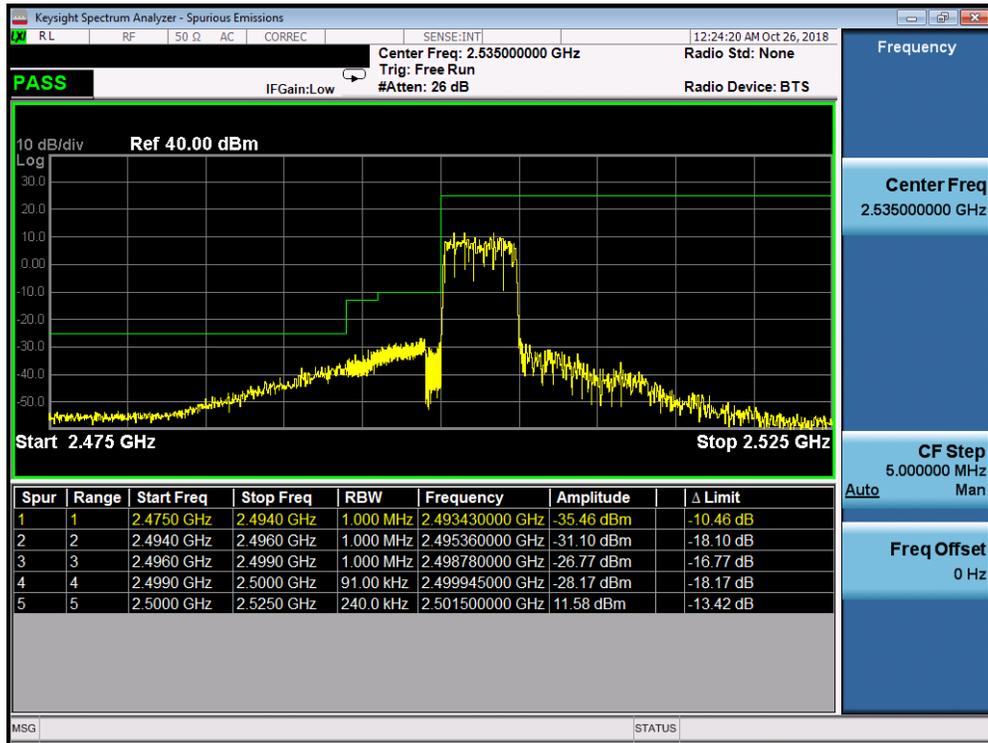
Plot 7-361. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



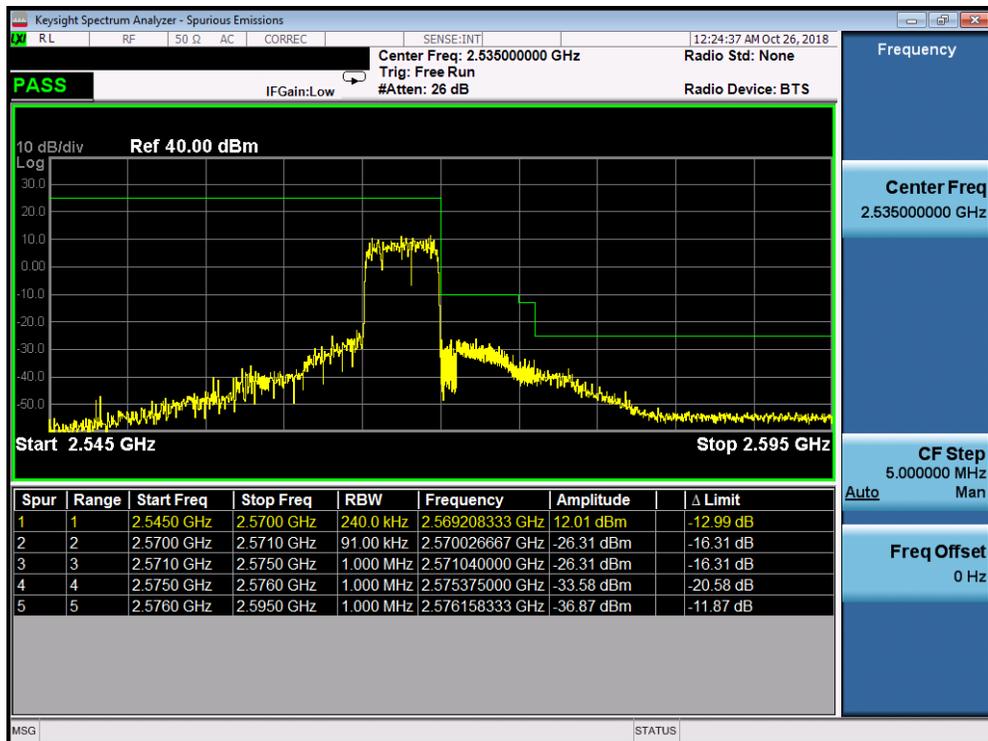
Plot 7-362. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 208 of 374

### Band 7 Antenna B

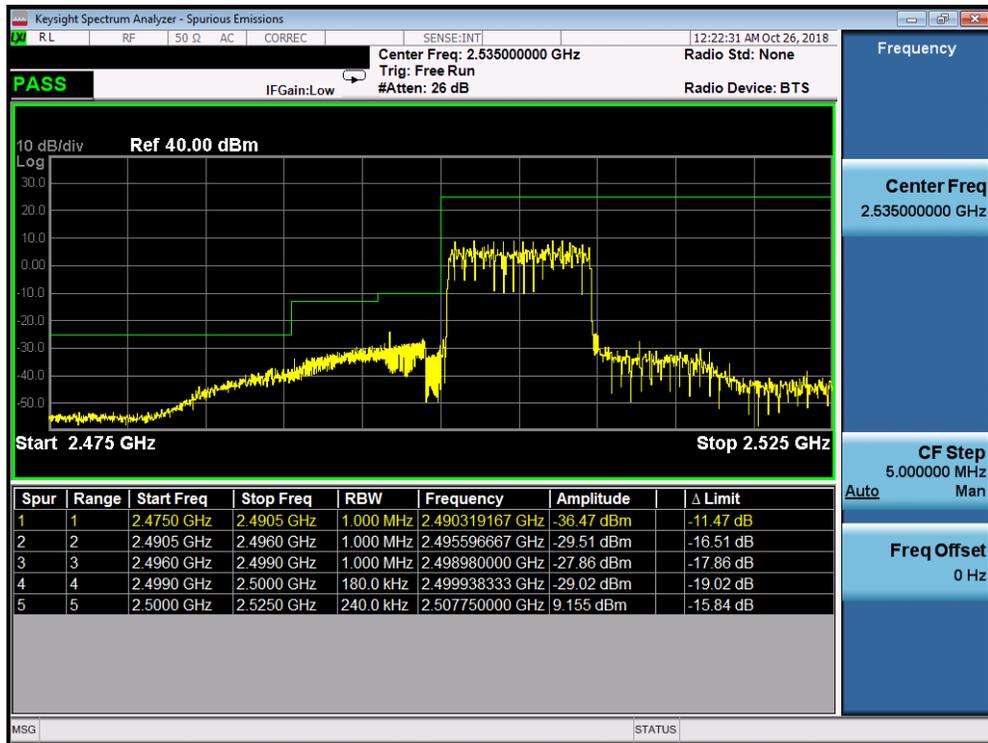


Plot 7-363. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

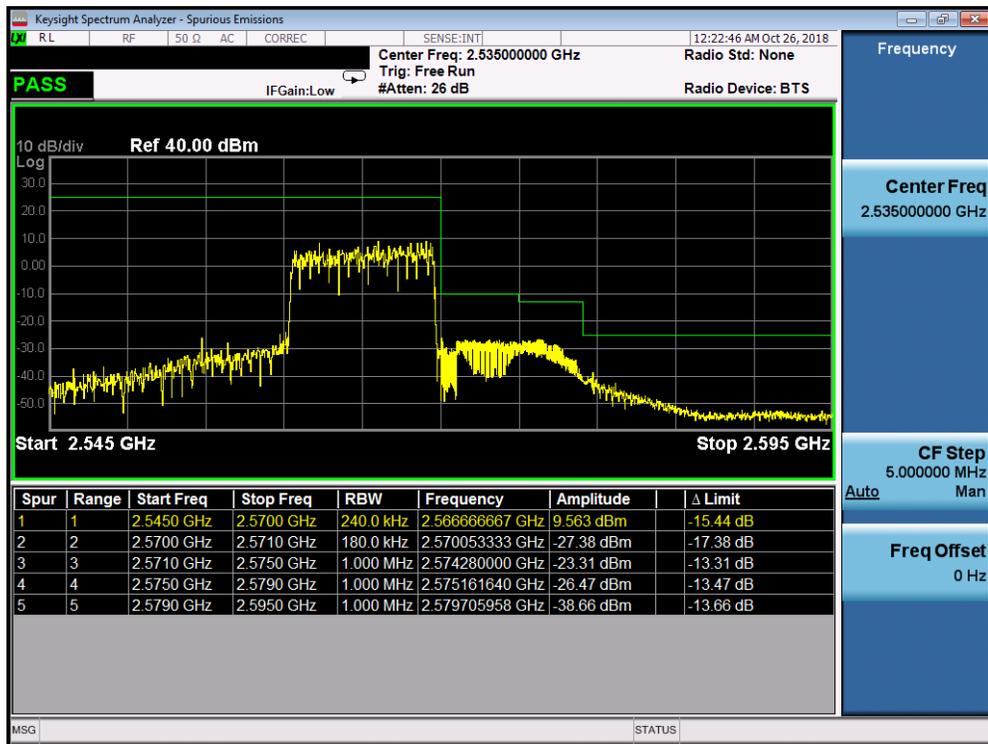


Plot 7-364. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 209 of 374

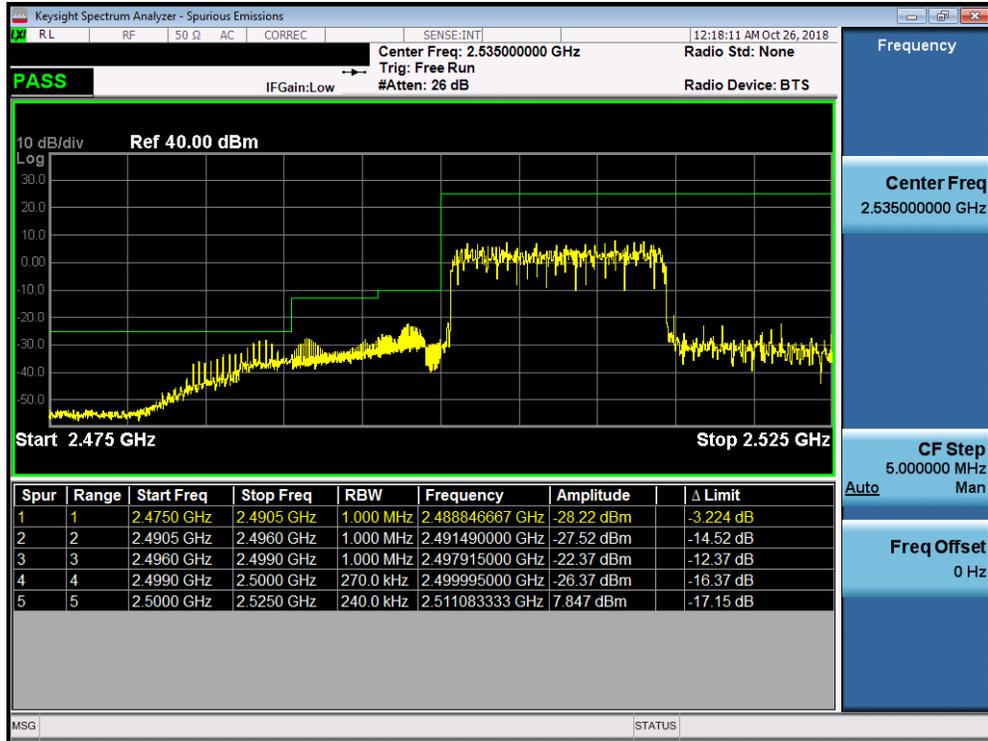


Plot 7-365. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-366. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 210 of 374

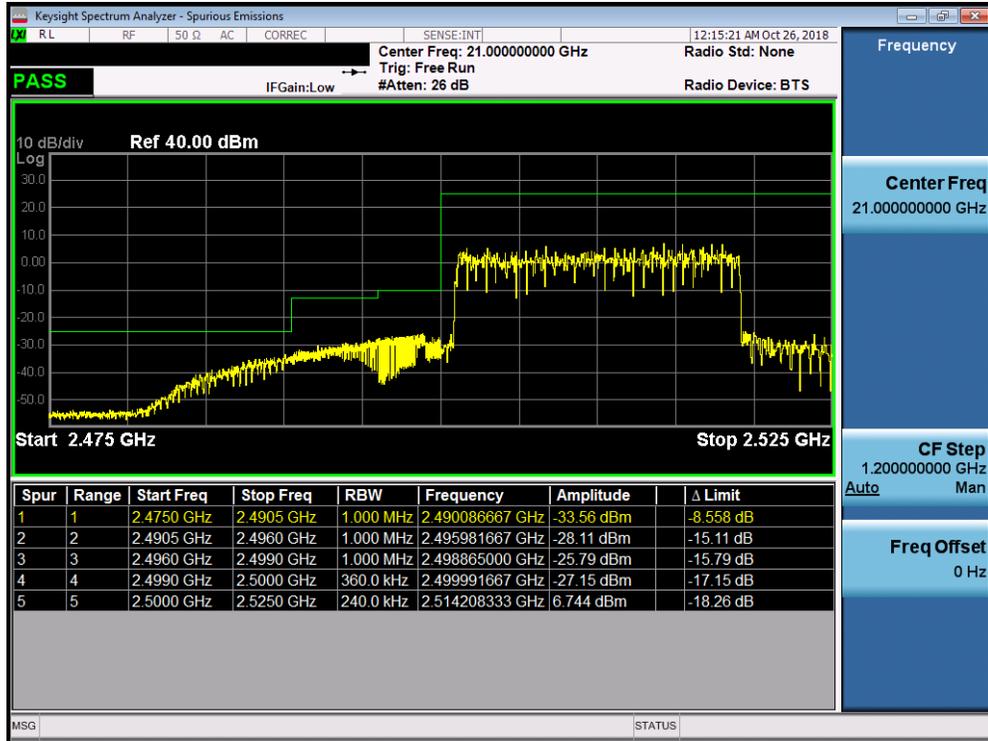


Plot 7-367. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-368. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 211 of 374



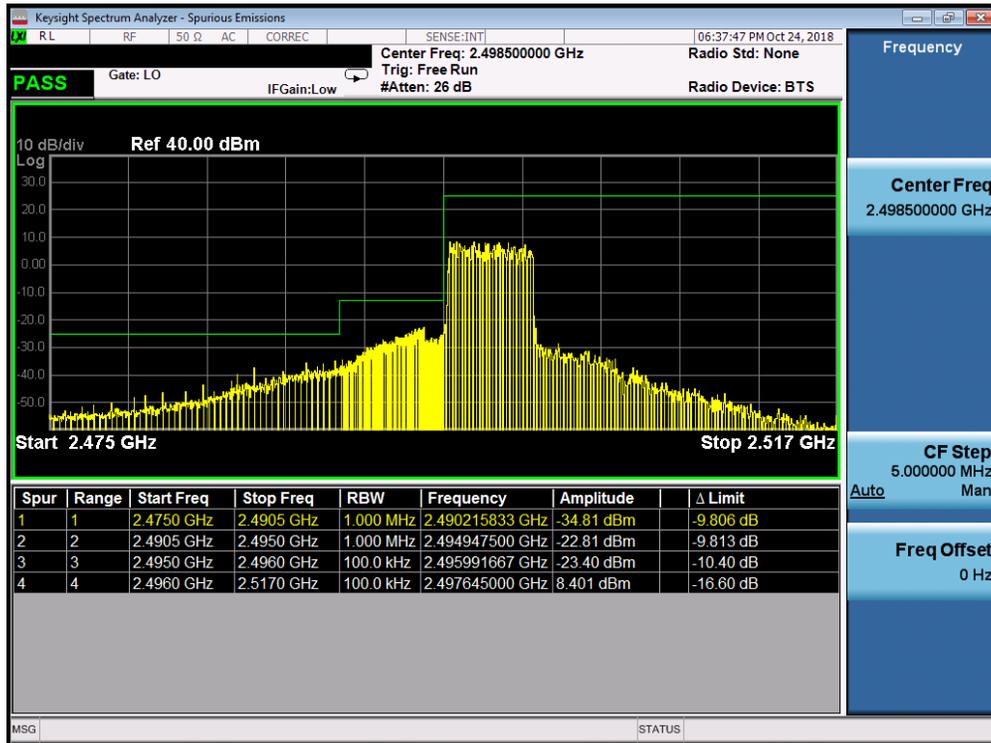
Plot 7-369. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



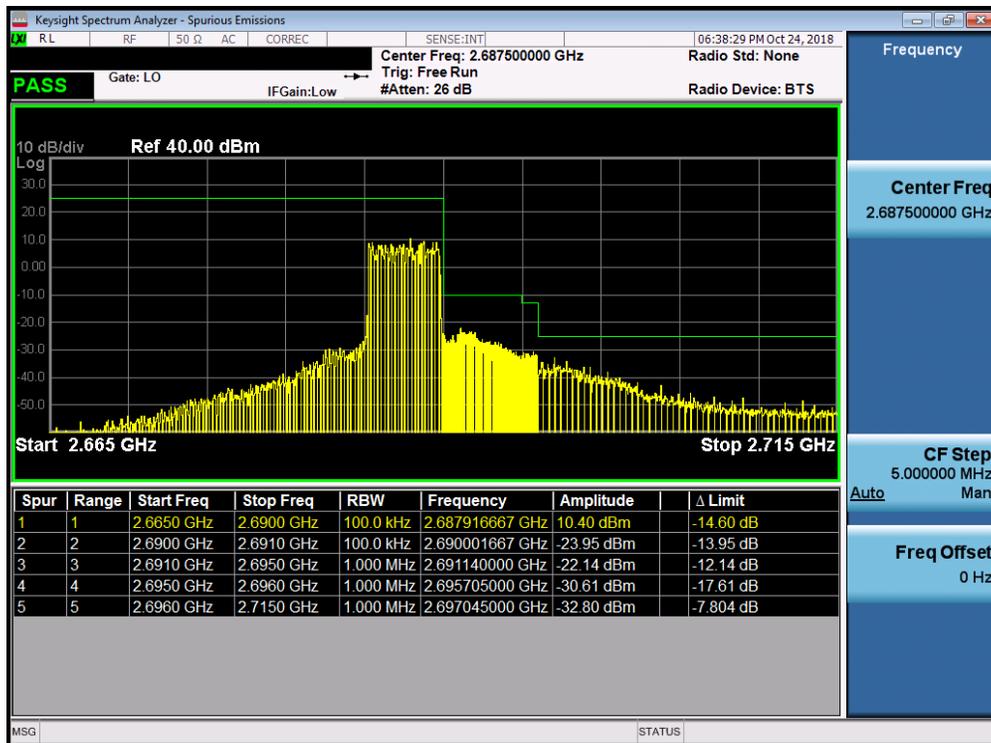
Plot 7-370. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 212 of 374

**Band 41 (PC2)**

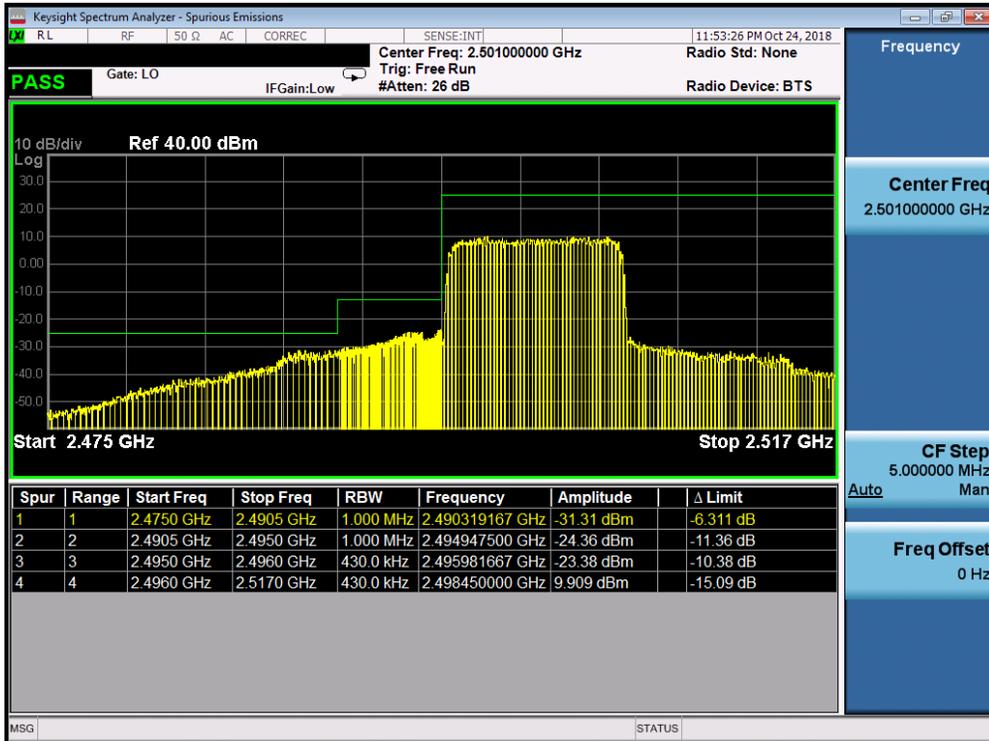


**Plot 7-371. Lower ACP Plot (Band 41 PC2 - 5.0MHz QPSK - Full RB Configuration)**

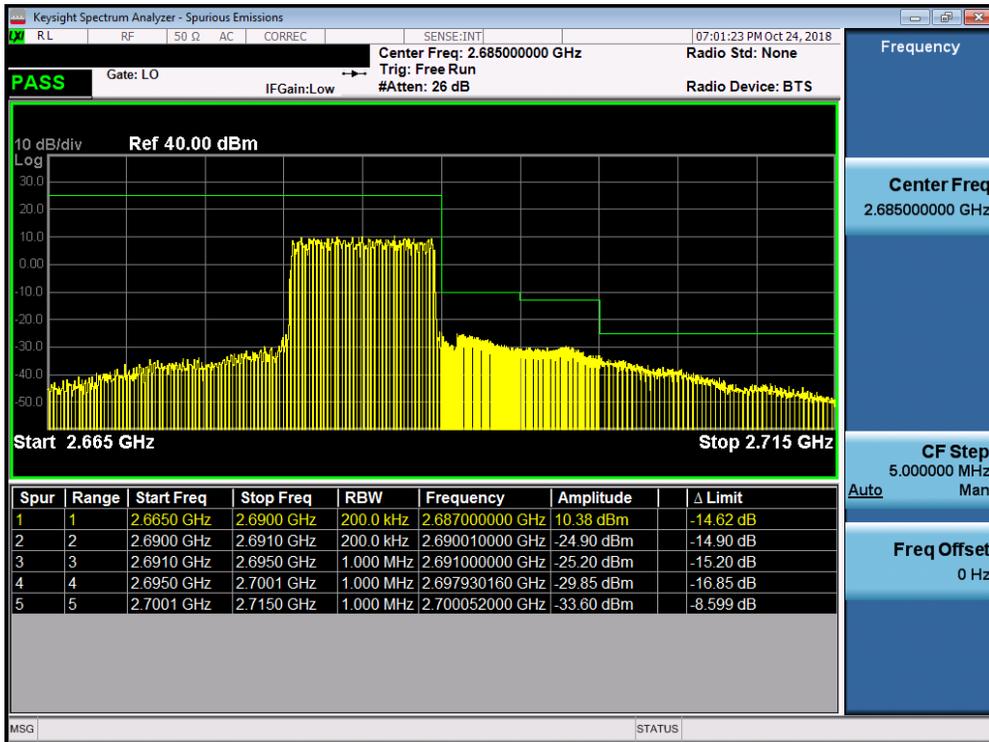


**Plot 7-372. Upper ACP Plot (Band 41 PC2 - 5.0MHz QPSK - Full RB Configuration)**

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 213 of 374

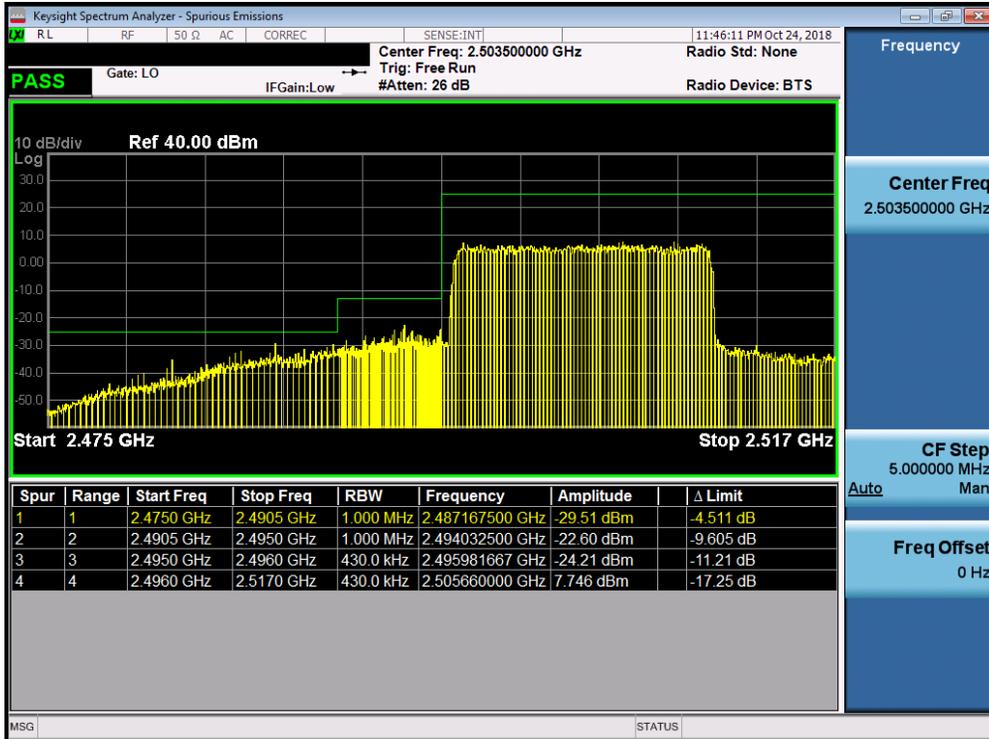


Plot 7-373. Lower ACP Plot (Band 41 PC2 - 10.0MHz QPSK - Full RB Configuration)

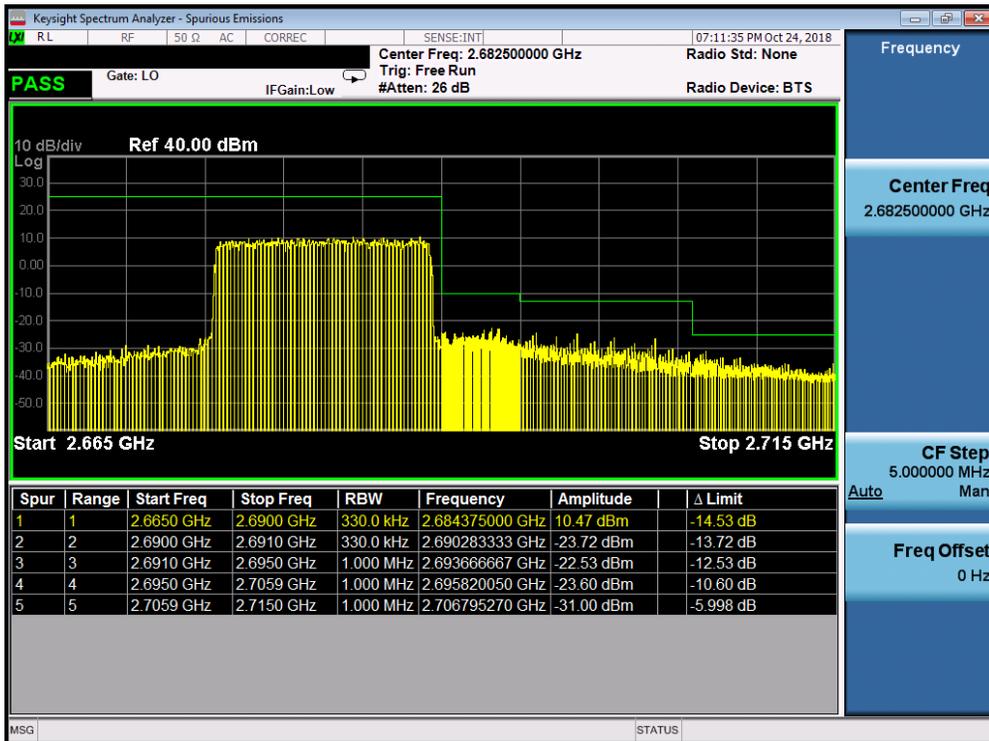


Plot 7-374. Upper ACP Plot (Band 41 PC2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 214 of 374

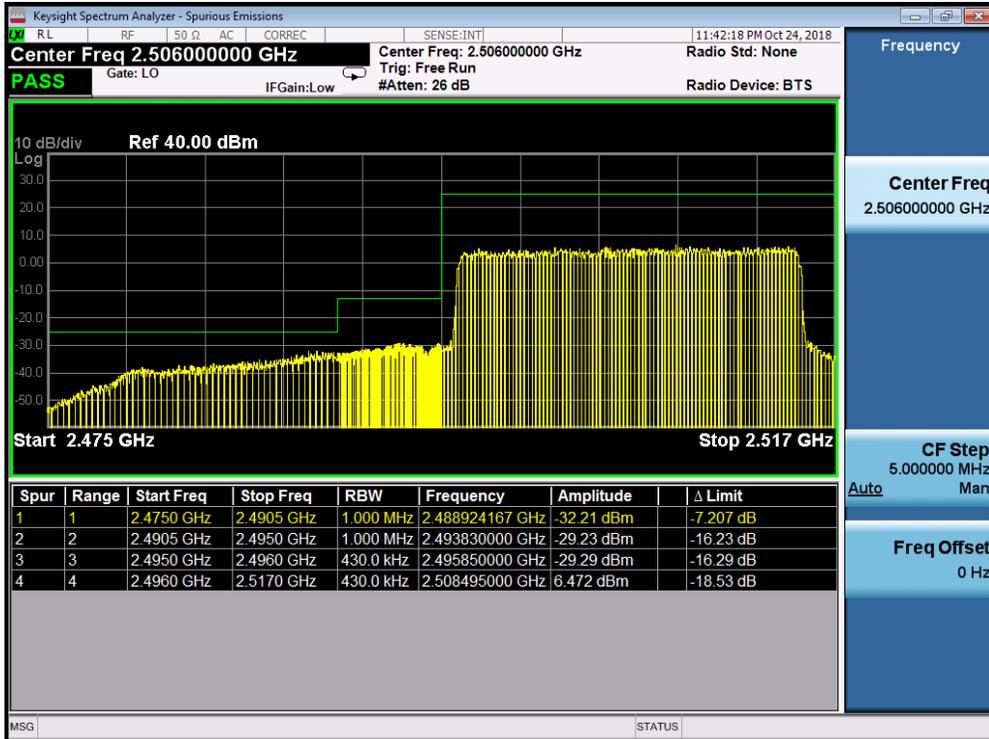


Plot 7-375. Lower ACP Plot (Band 41 PC2 - 15.0MHz QPSK - Full RB Configuration)

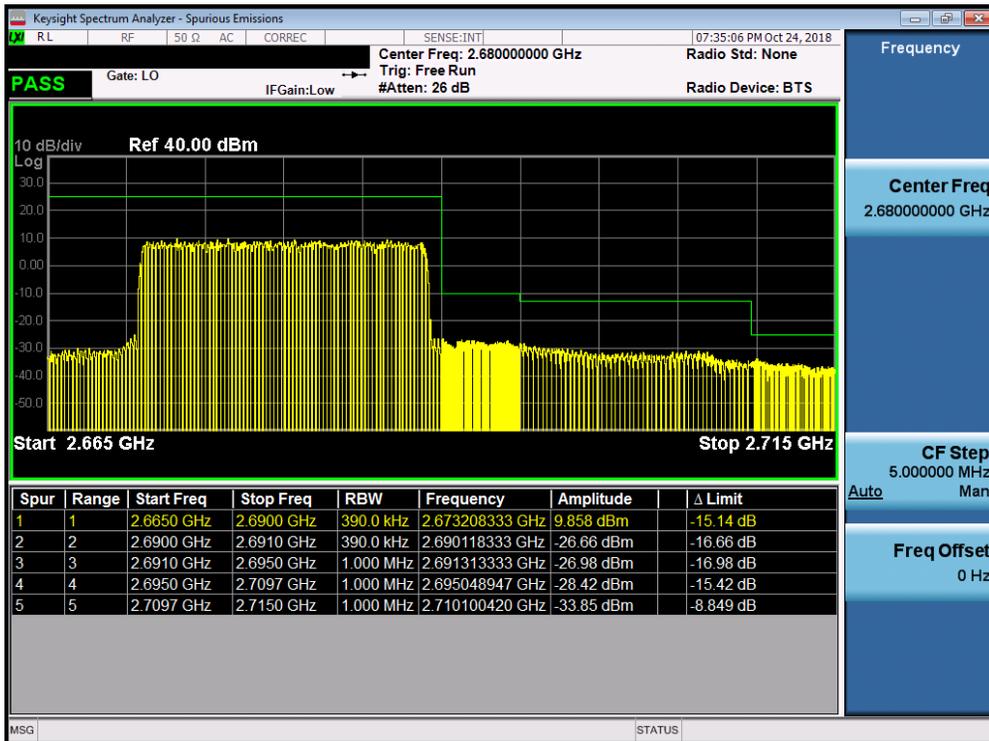


Plot 7-376. Upper ACP Plot (Band 41 PC2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 215 of 374



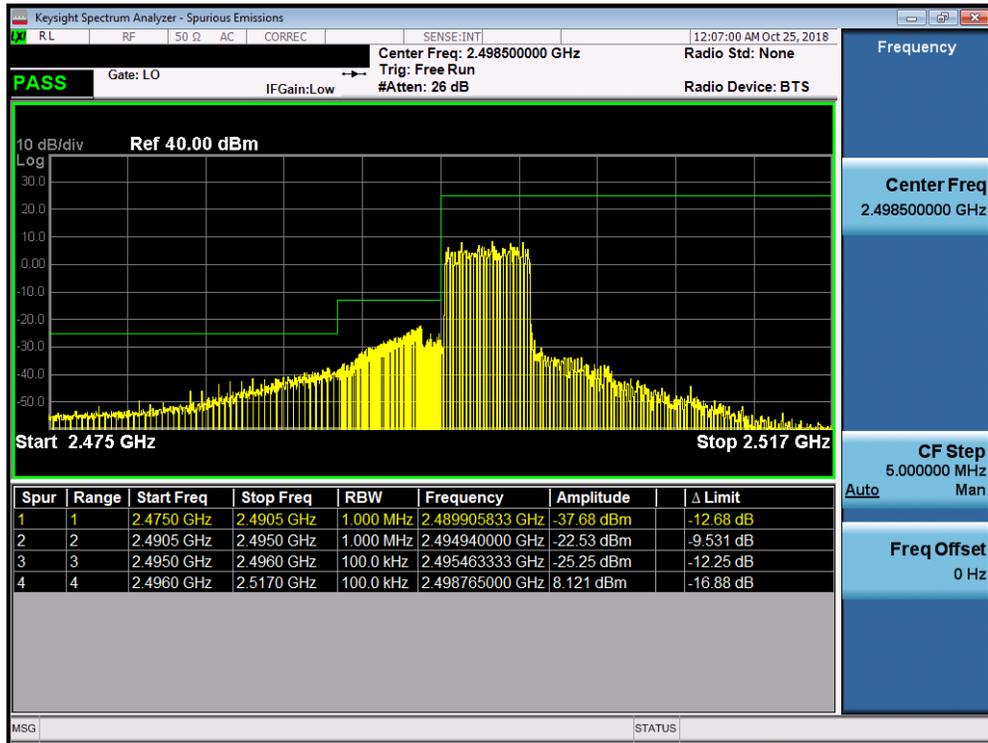
Plot 7-377. Lower ACP Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)



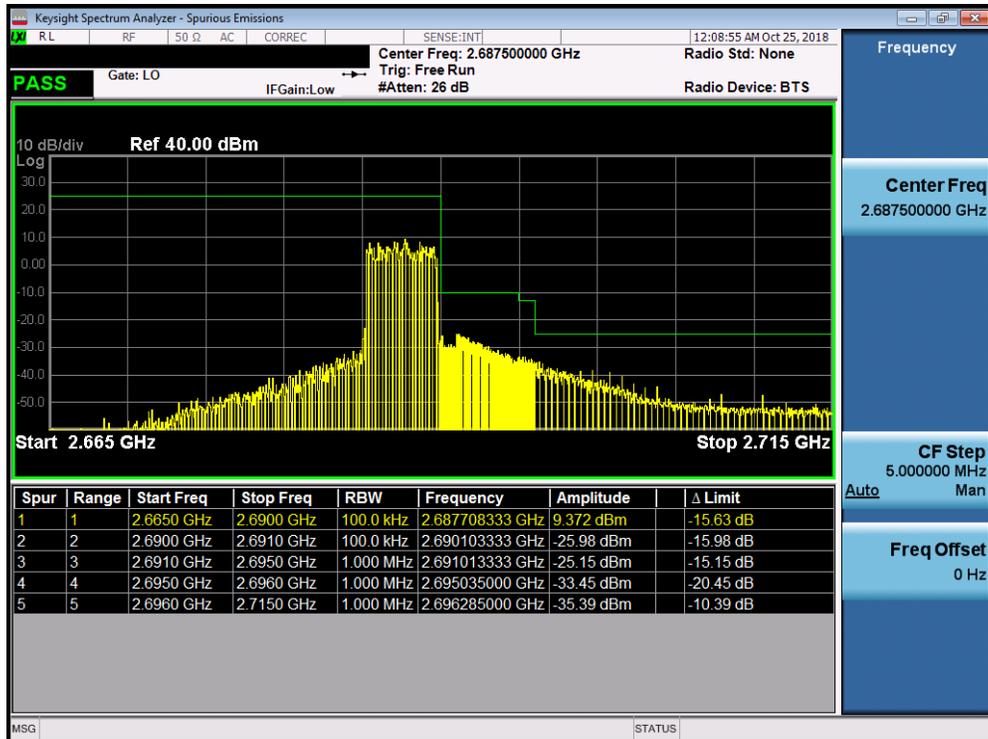
Plot 7-378. Upper ACP Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 216 of 374

**Band 41 (PC3) / Band 38**

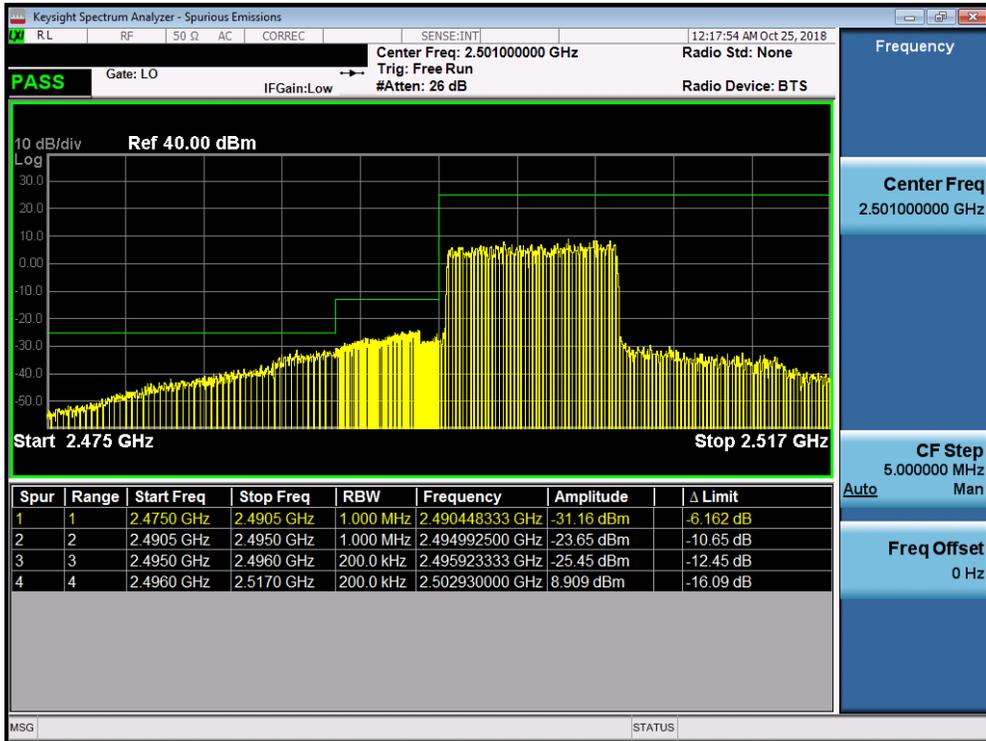


**Plot 7-379. Lower ACP Plot (Band 41 PC3/38 - 5.0MHz QPSK - Full RB Configuration)**

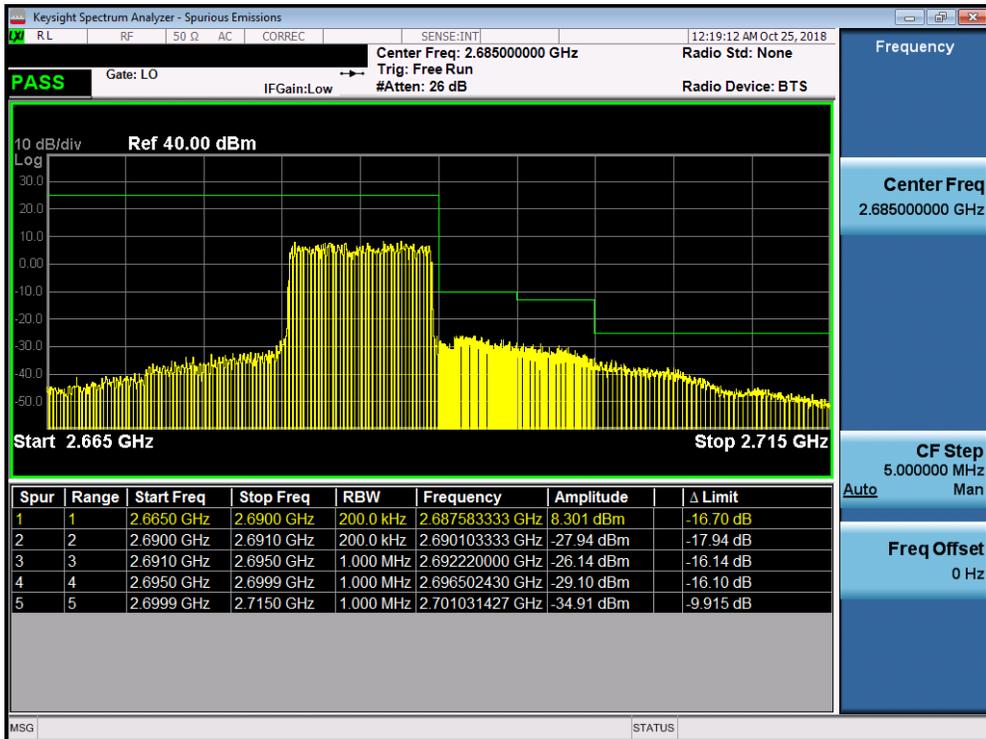


**Plot 7-380. Upper ACP Plot (Band 41 PC3/38 - 5.0MHz QPSK - Full RB Configuration)**

FCC ID: A3LSMG973U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 217 of 374

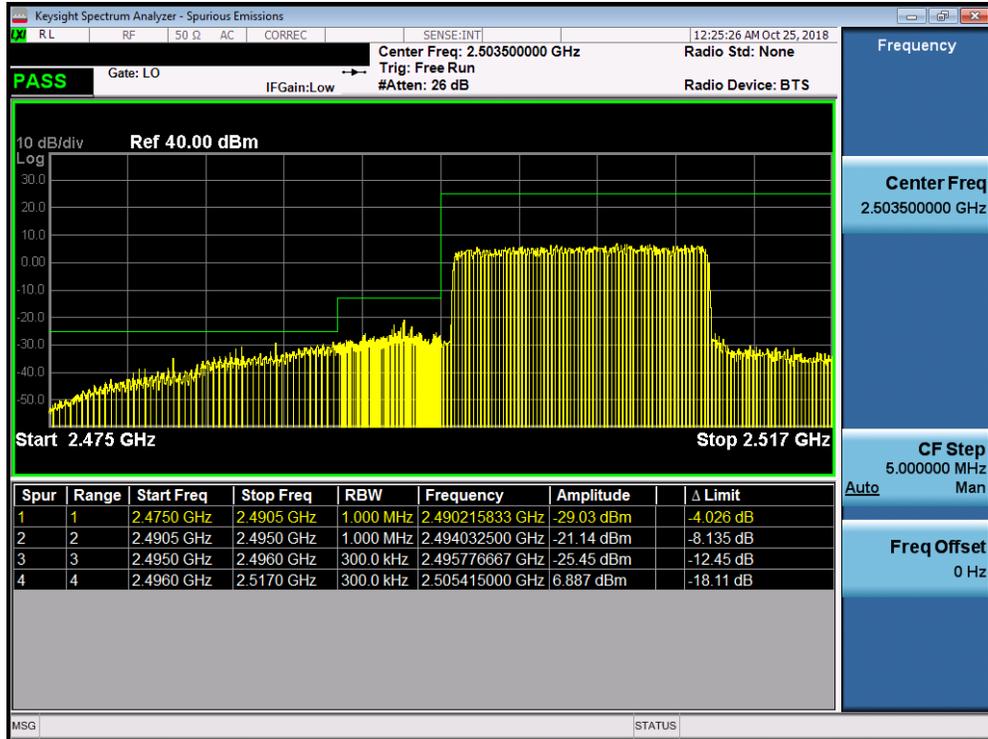


Plot 7-381. Lower ACP Plot (Band 41 PC3/38- 10.0MHz QPSK - Full RB Configuration)

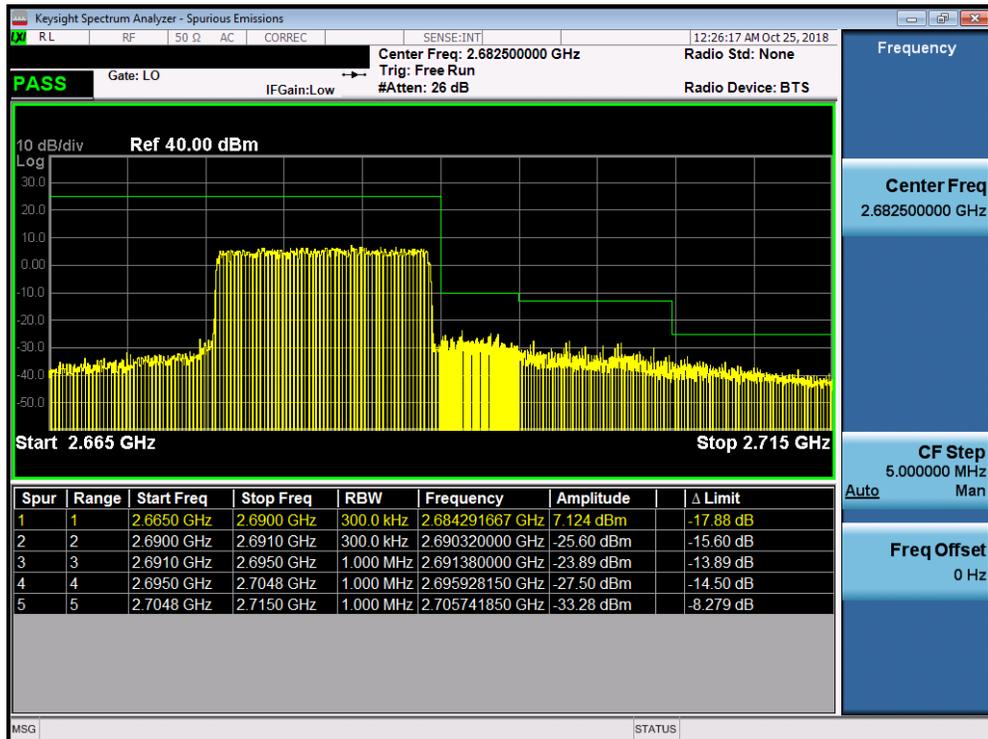


Plot 7-382. Upper ACP Plot (Band 41 PC3/38- 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 218 of 374

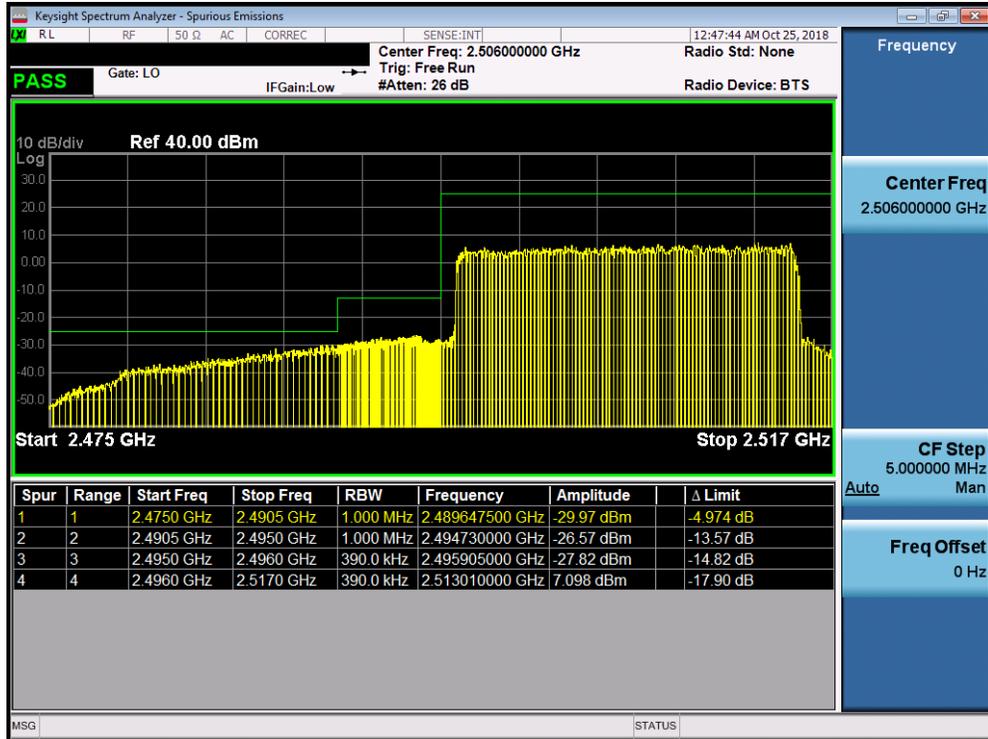


Plot 7-383. Lower ACP Plot (Band 41 PC3/38 - 15.0MHz QPSK - Full RB Configuration)

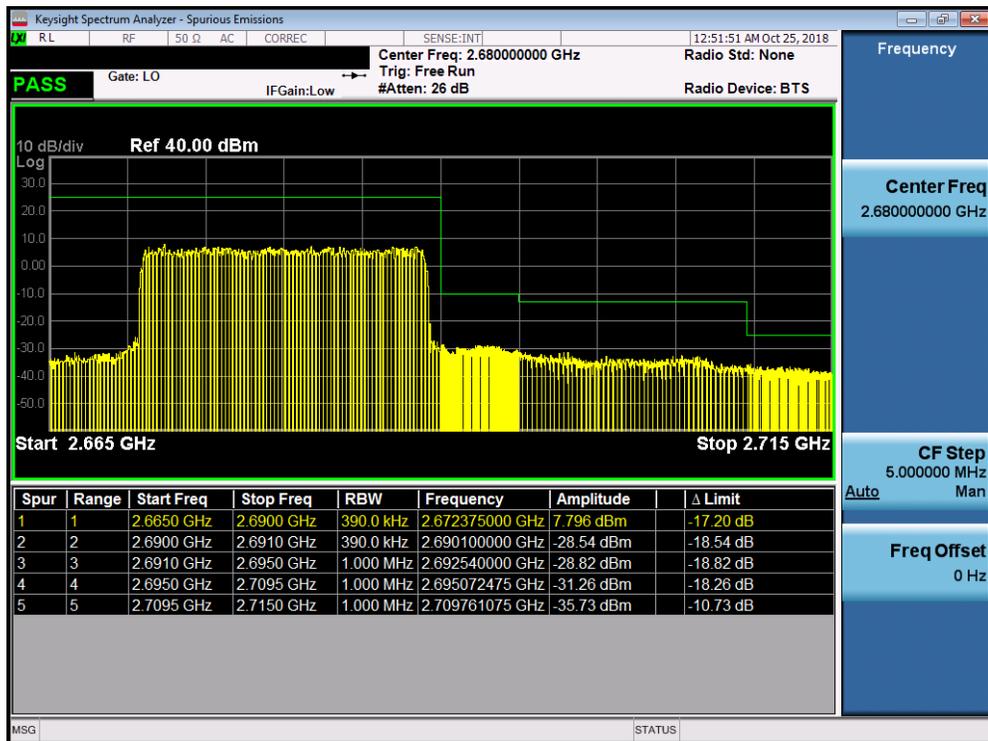


Plot 7-384. Upper ACP Plot (Band 41 PC3/38 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 219 of 374



Plot 7-385. Lower ACP Plot (Band 41 PC3/38 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-386. Upper ACP Plot (Band 41 PC3/38 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 220 of 374

## 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.



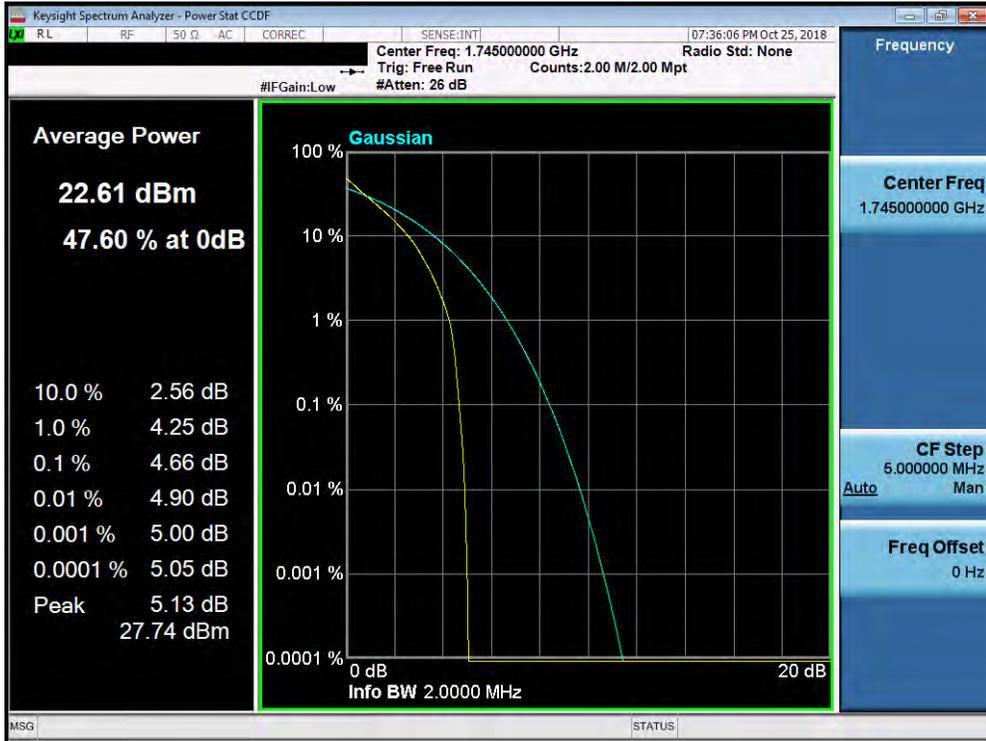
**Figure 7-4. Test Instrument & Measurement Setup**

### Test Notes

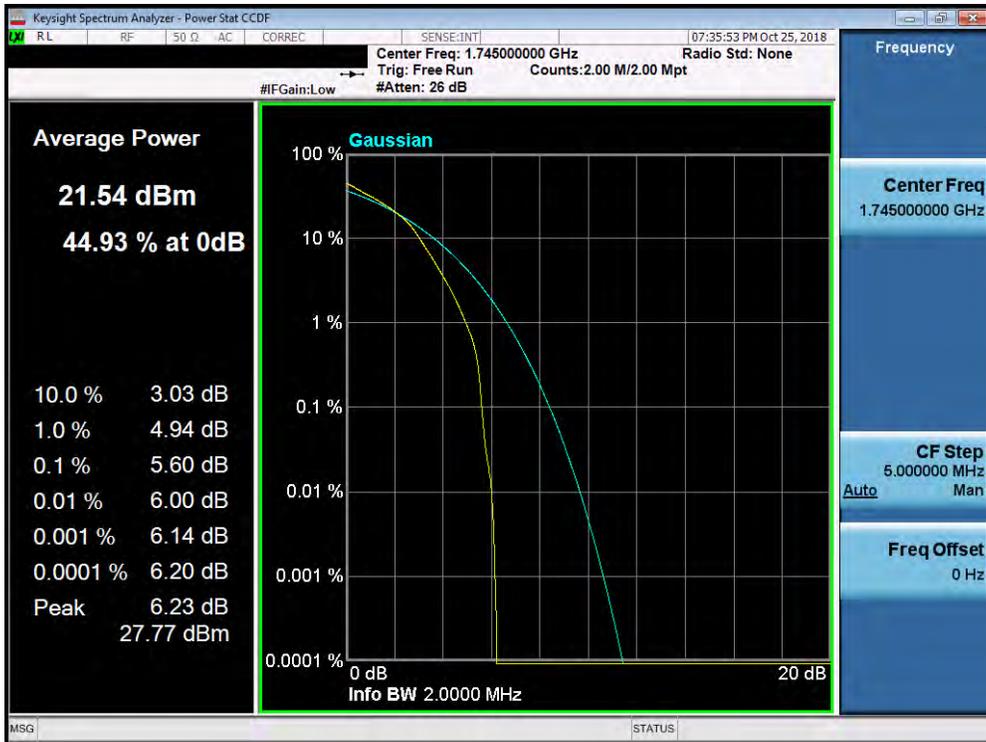
None.

FCC ID: A3LSMG973U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 221 of 374

**Band 66/4**

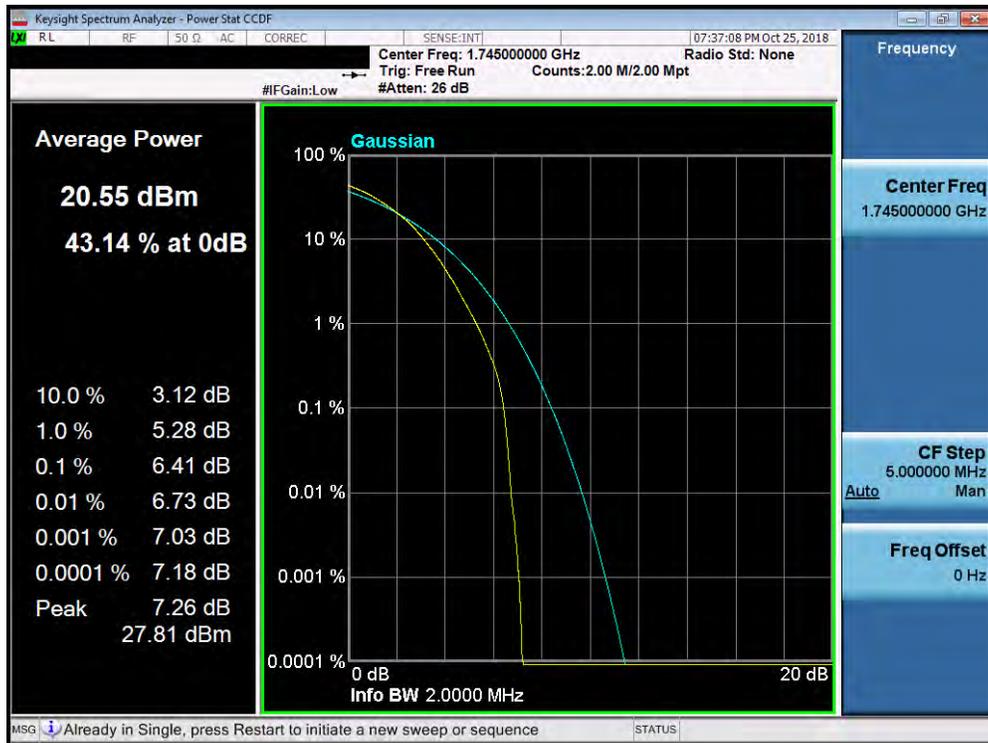


**Plot 7-387. PAR Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)**

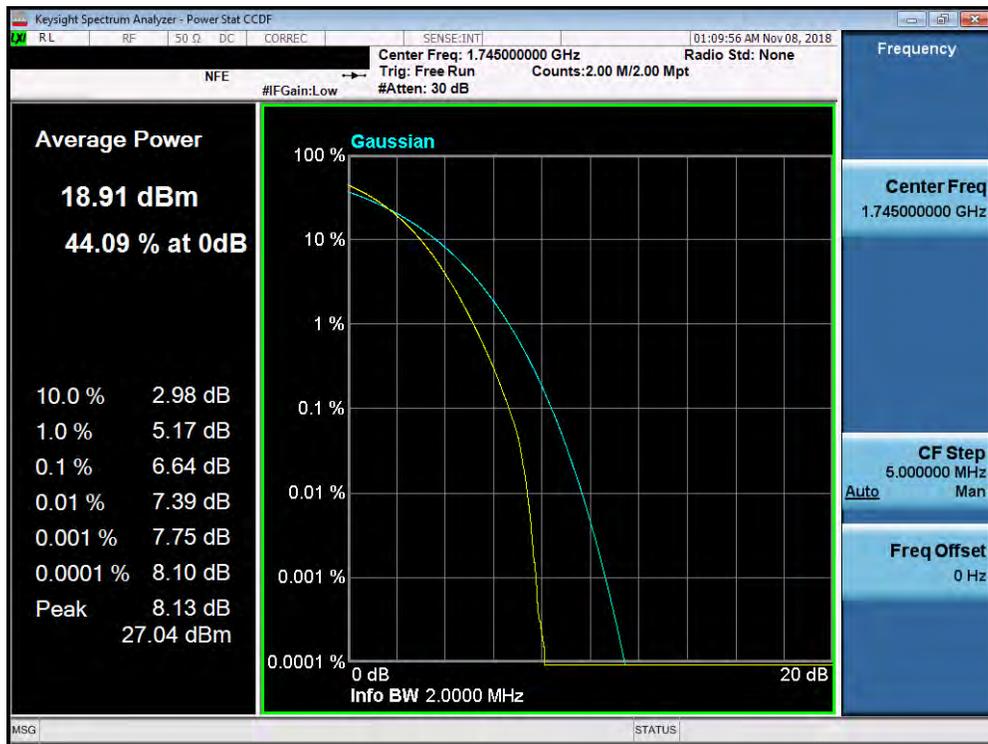


**Plot 7-388. PAR Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)**

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 222 of 374

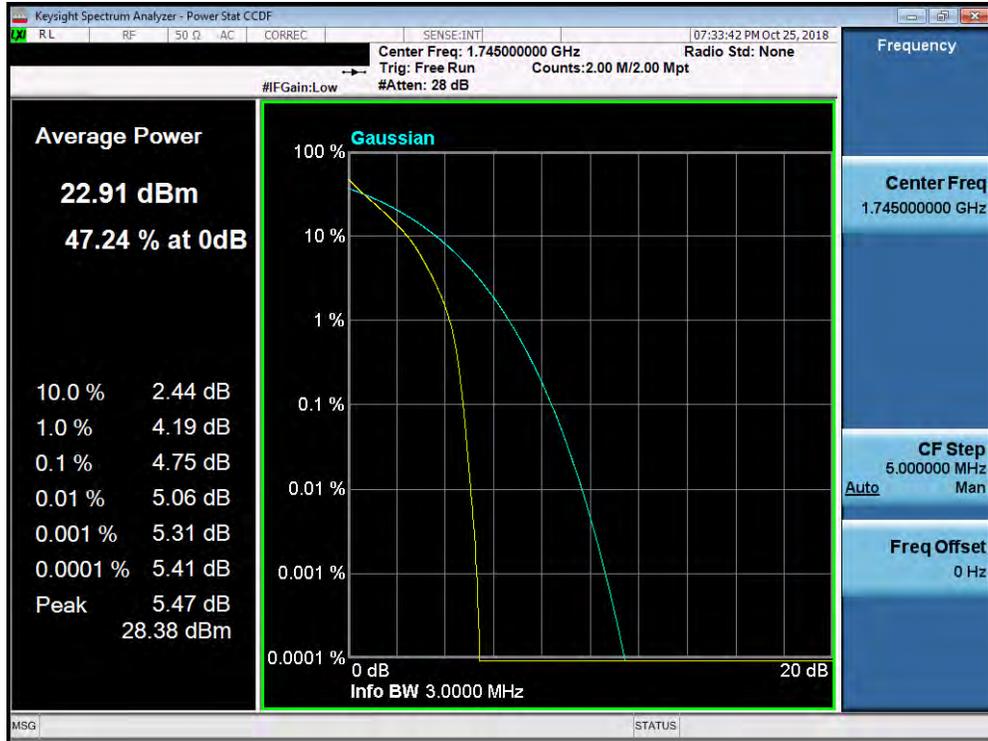


Plot 7-389. PAR Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)

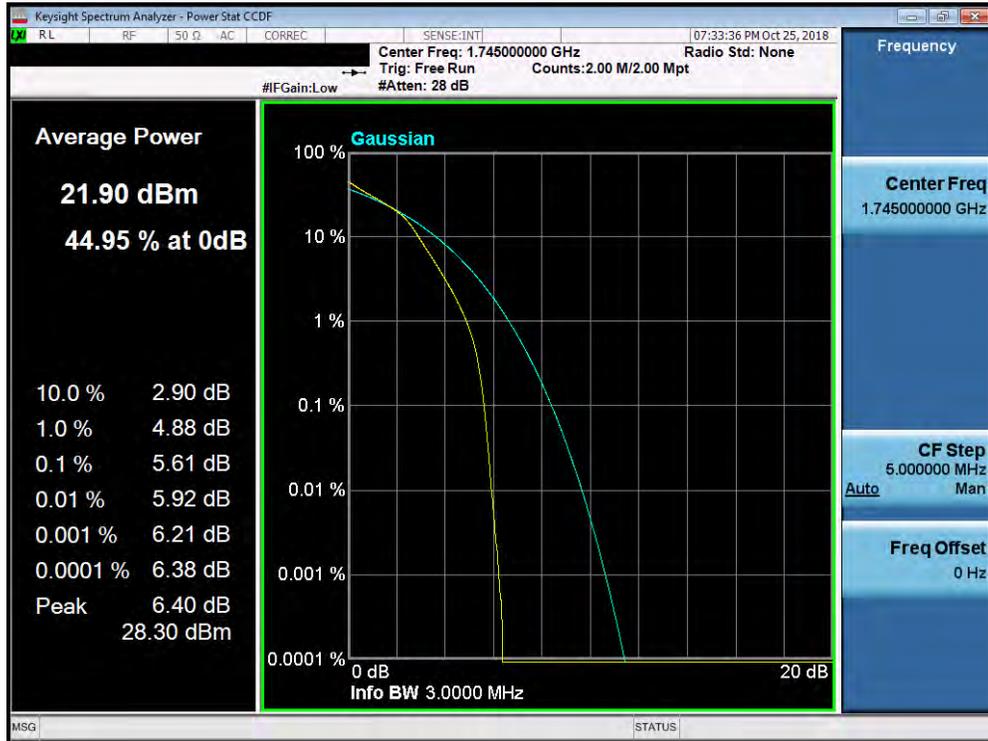


Plot 7-390. PAR Plot (Band 66/4 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 223 of 374

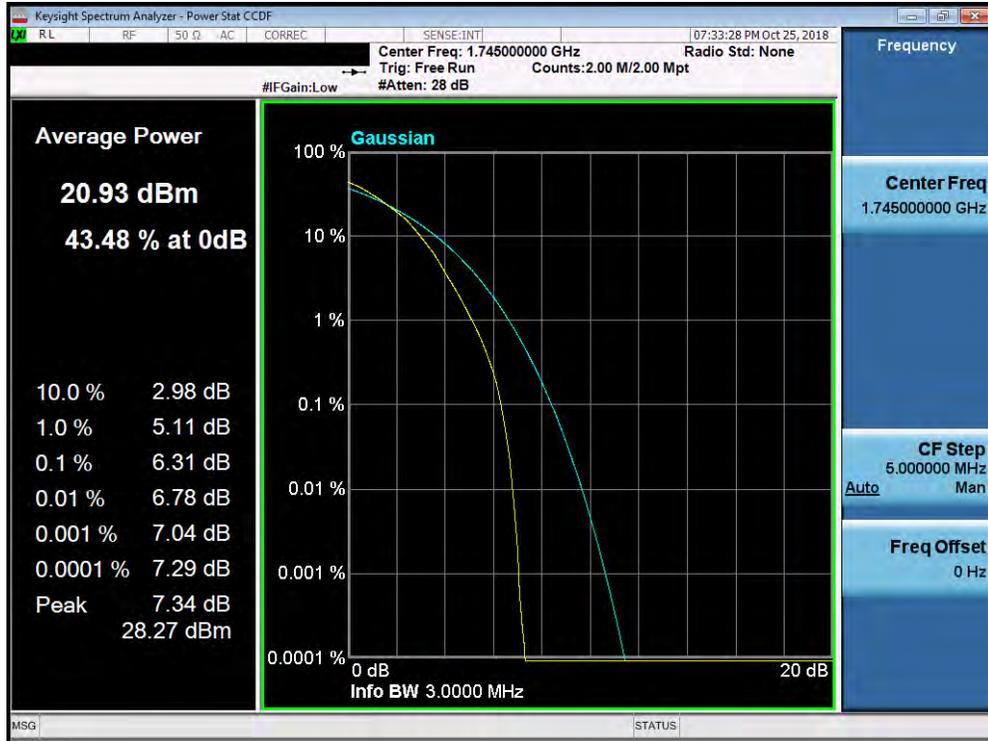


Plot 7-391. PAR Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

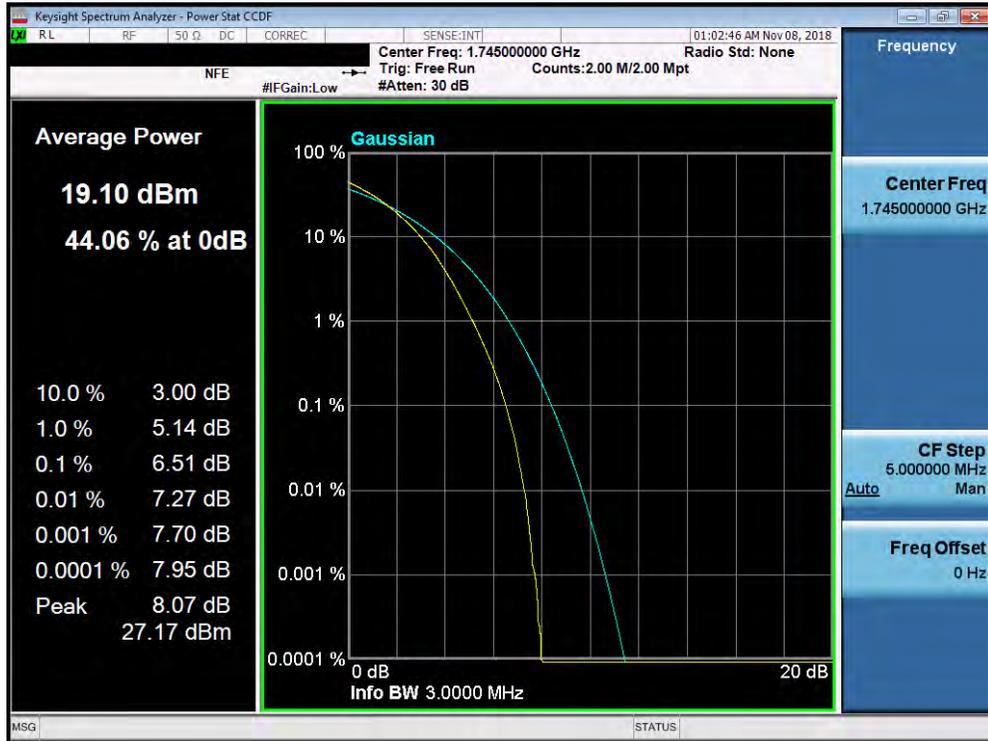


Plot 7-392. PAR Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 224 of 374

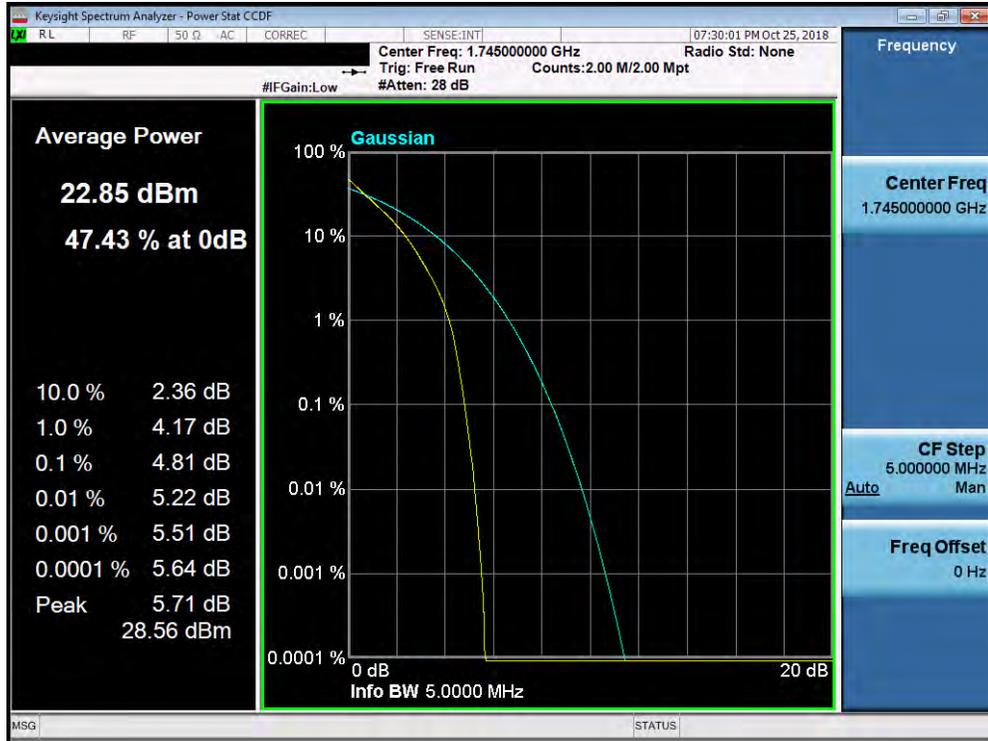


Plot 7-393. PAR Plot (Band 66/4 - 3.0MHz 64-QAM - Full RB Configuration)

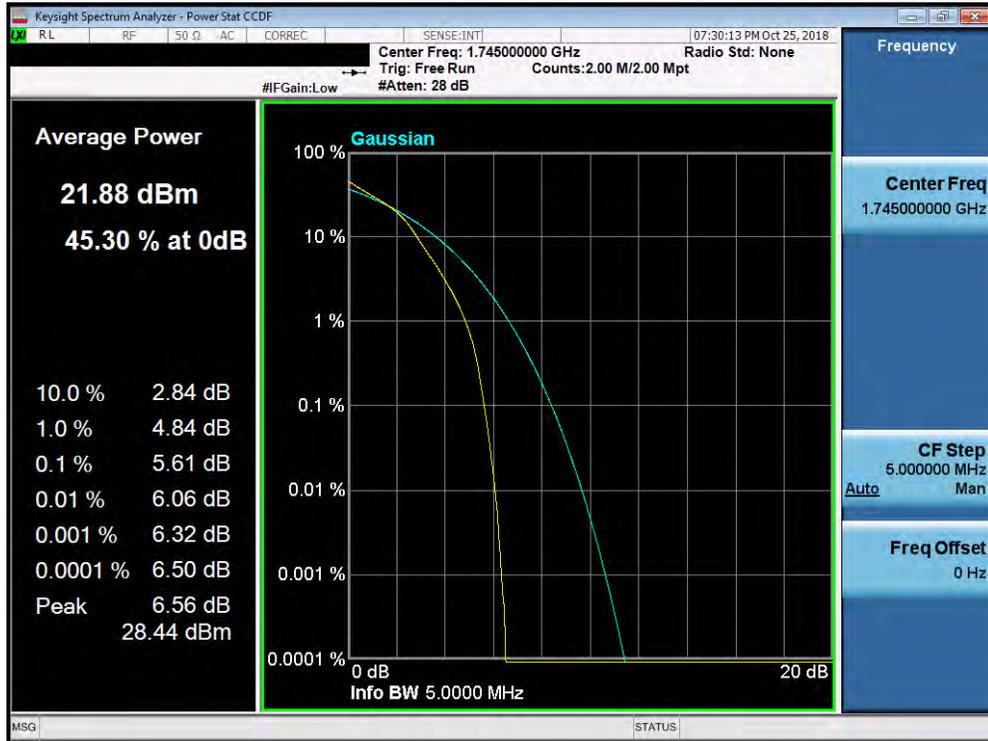


Plot 7-394. PAR Plot (Band 66/4 - 3.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 225 of 374

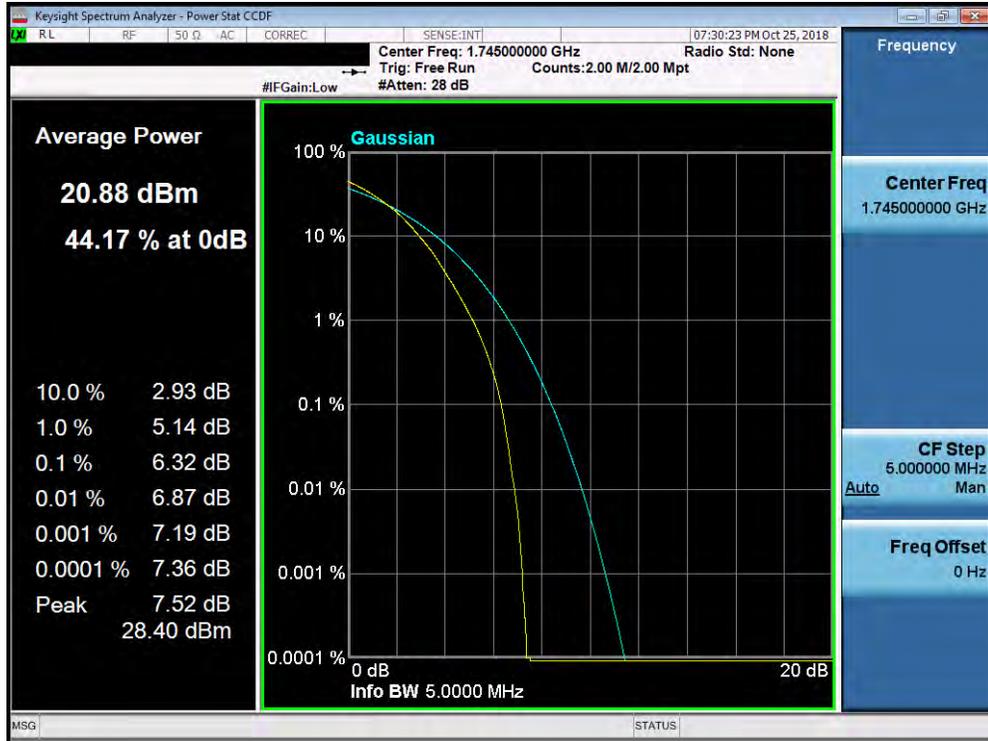


Plot 7-395. PAR Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

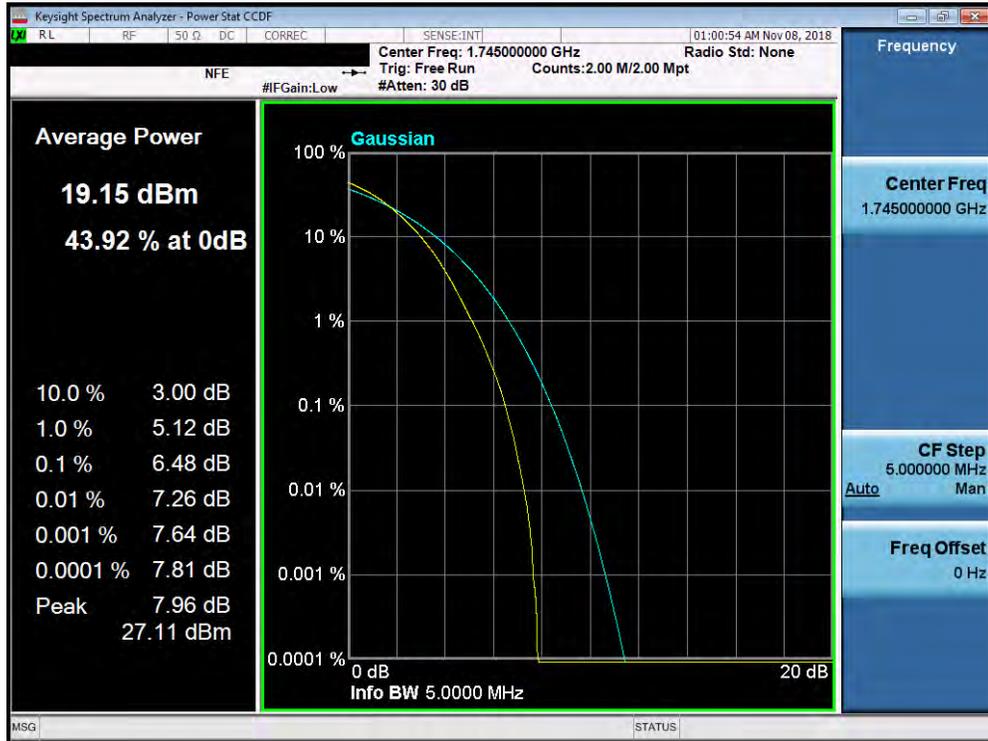


Plot 7-396. PAR Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 226 of 374



Plot 7-397. PAR Plot (Band 66/4 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-398. PAR Plot (Band 66/4 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG973U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1810250195-03.A3L	Test Dates: 10/23/2018 - 1/09/2019	EUT Type: Portable Handset		Page 227 of 374