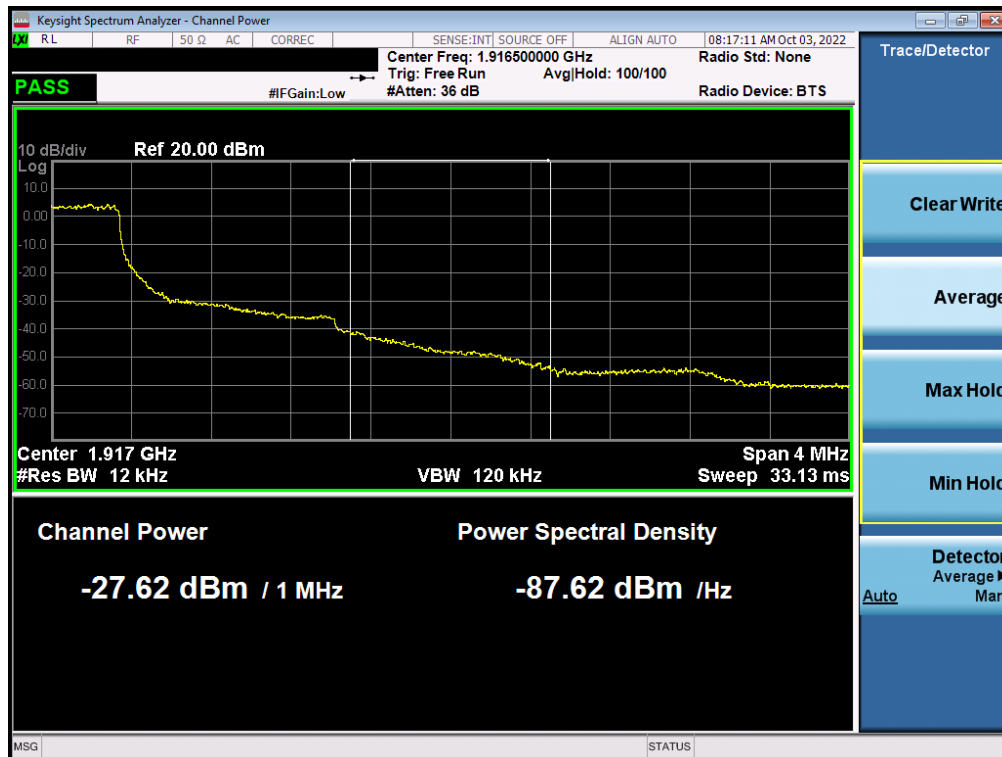




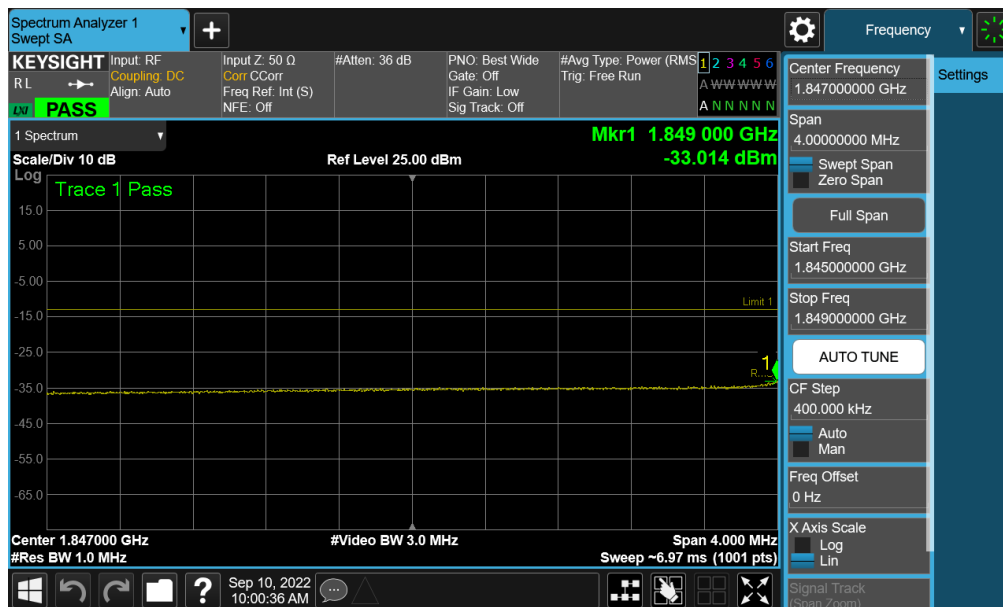
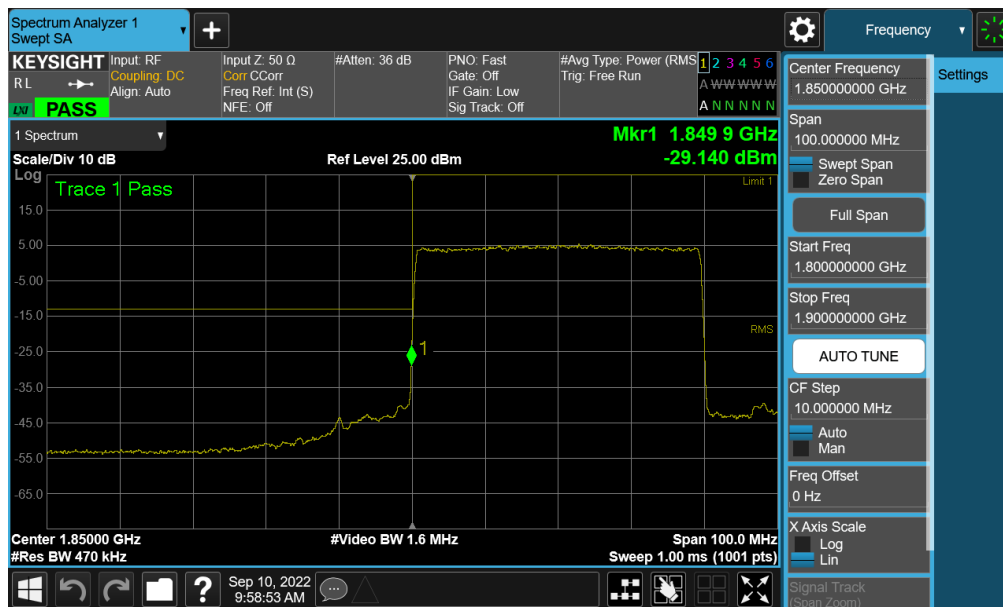
Plot 7-194. Upper Band Edge Plot (LTE Band 25 - 1.4MHz QPSK - Full RB - ANT F)



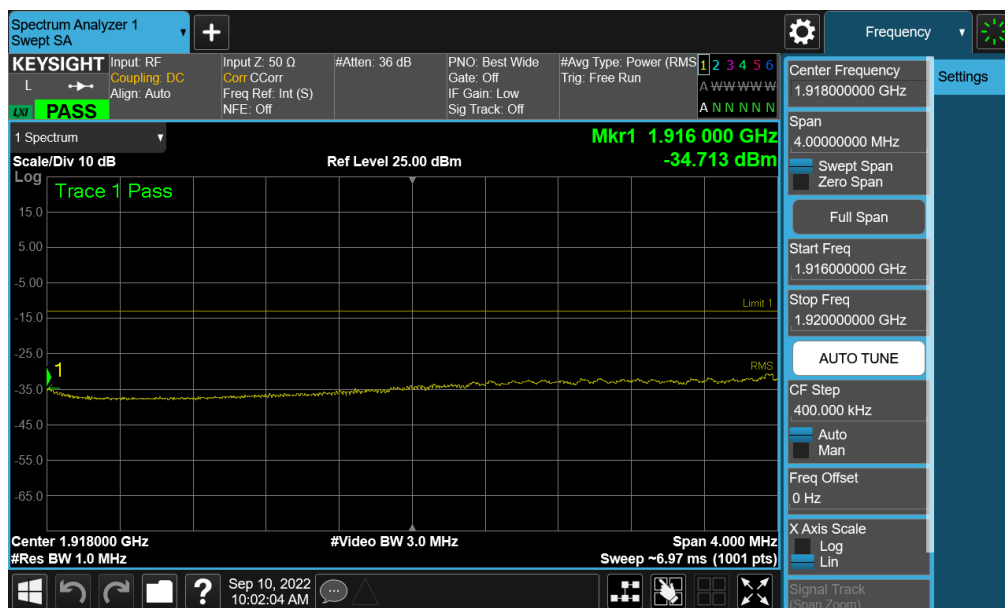
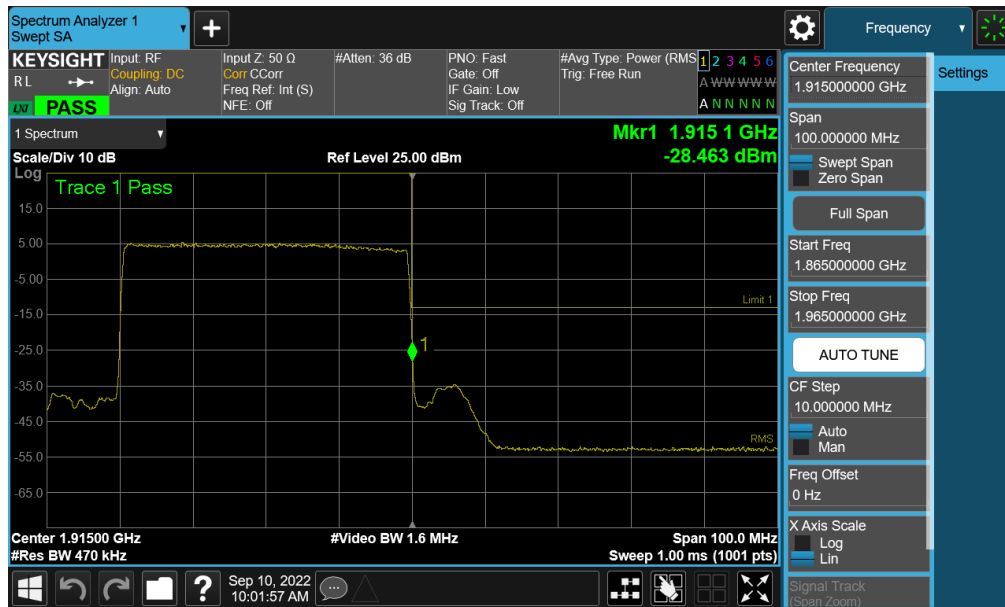
Plot 7-195. Extended Upper Band Edge Plot (LTE Band 25 - 1.4MHz QPSK - Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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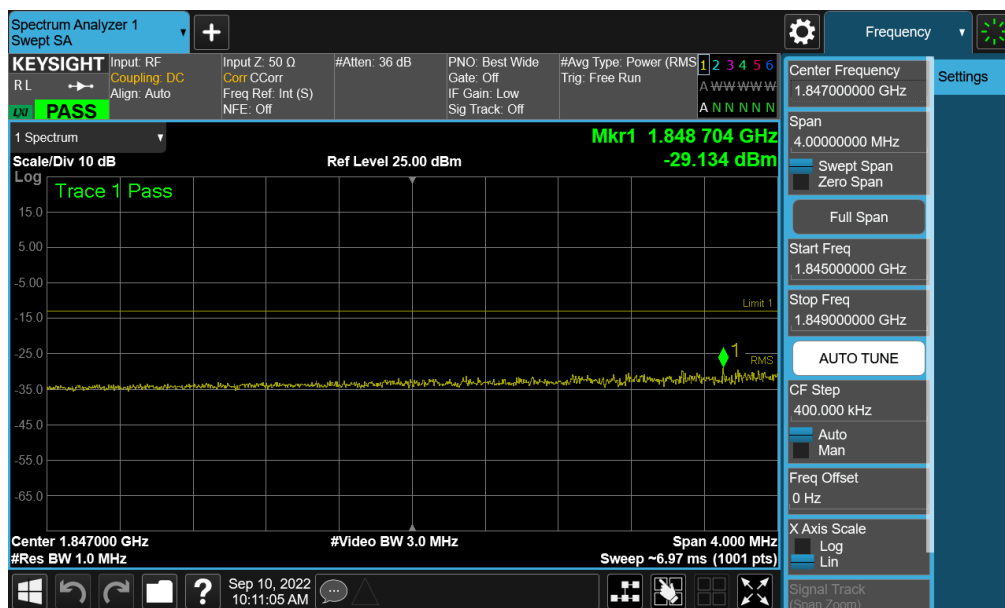
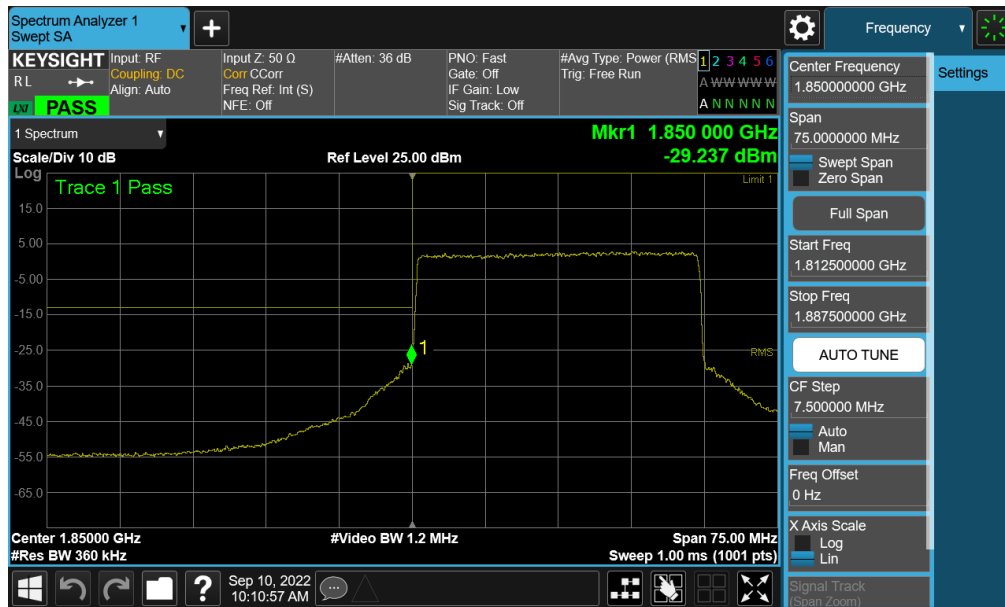
## NR Band n25/2 – ANT A



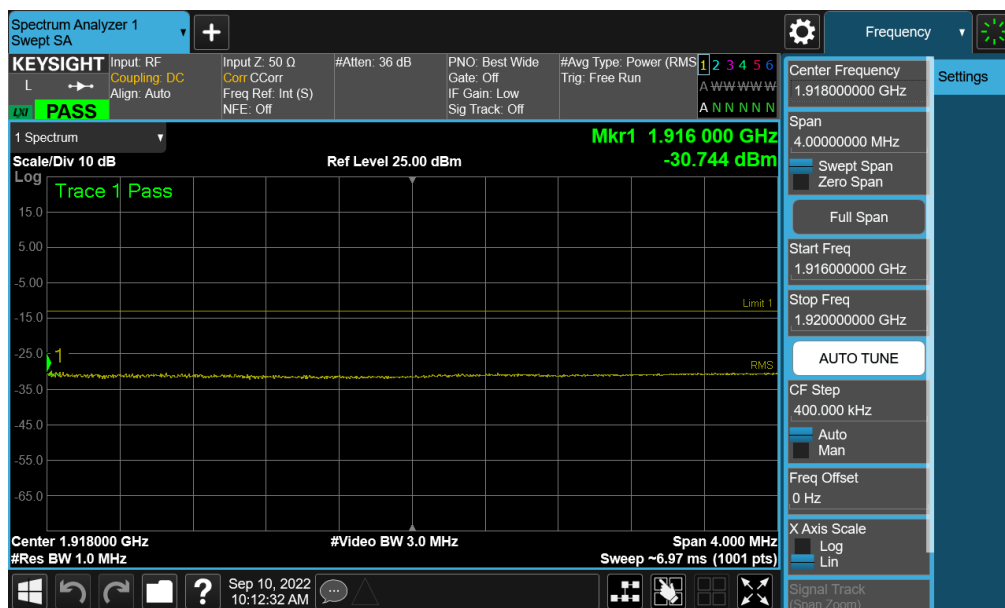
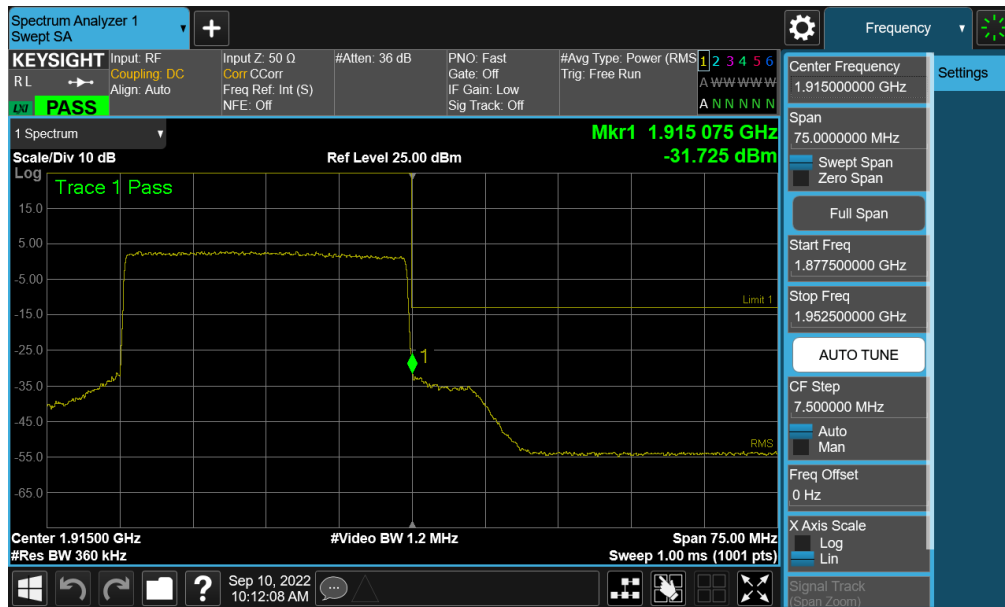
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-06.A3L	Test Dates: 9/12/2022 - 11/08/2022	EUT Type: Portable Handset	Page 123 of 229



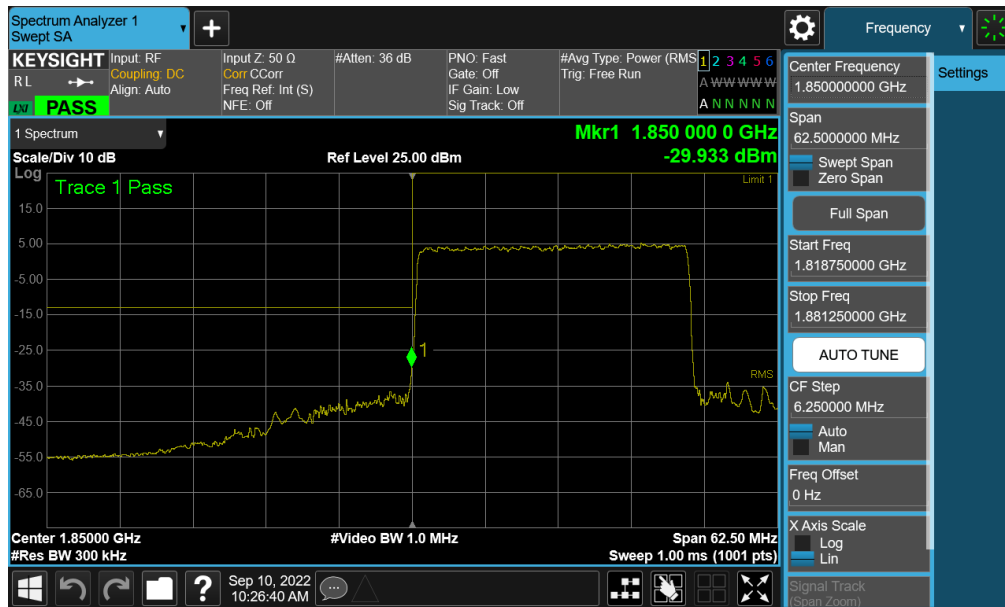
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-06.A3L	Test Dates: 9/12/2022 - 11/08/2022	EUT Type: Portable Handset	Page 124 of 229



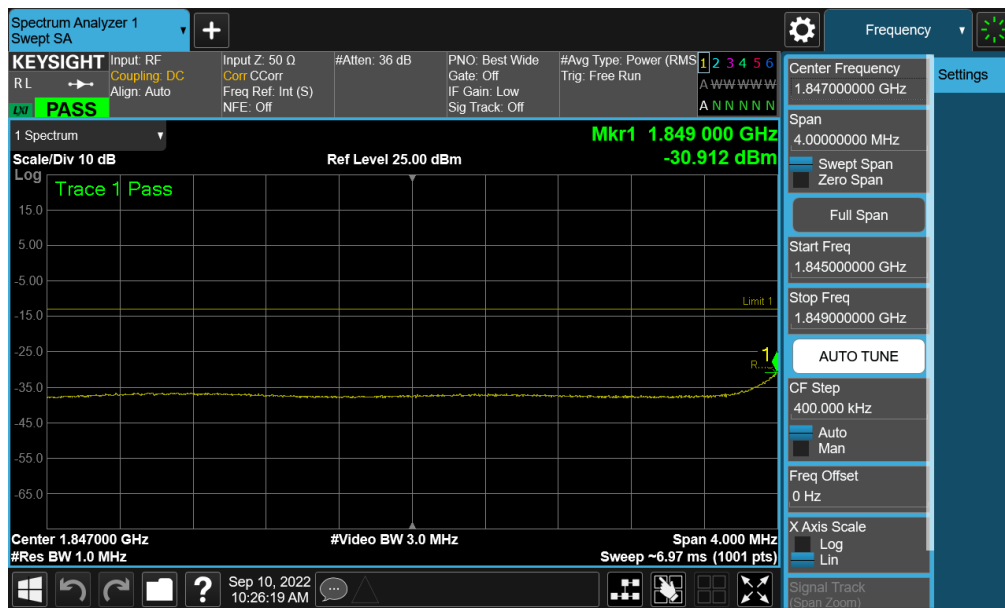
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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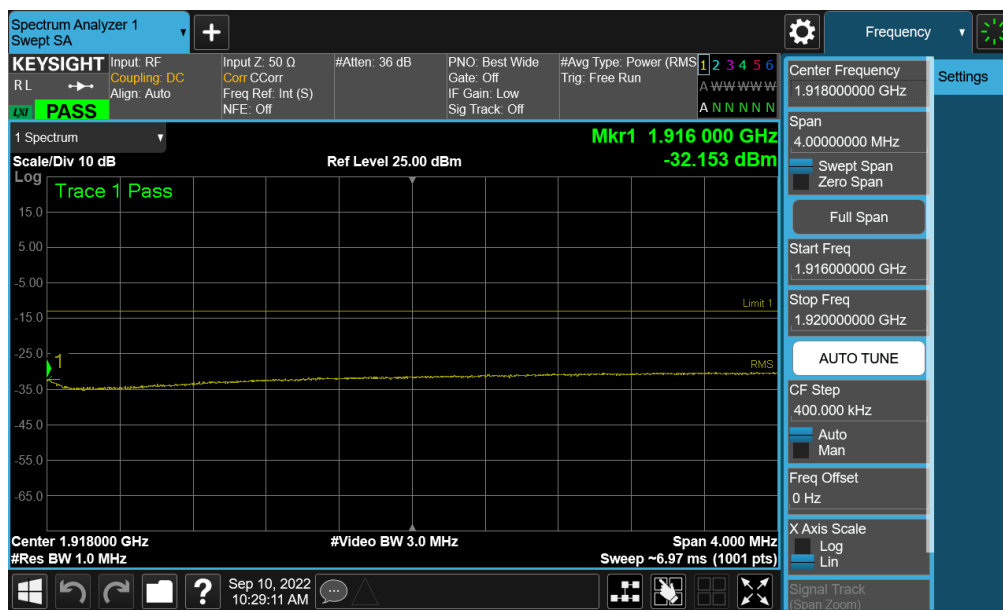
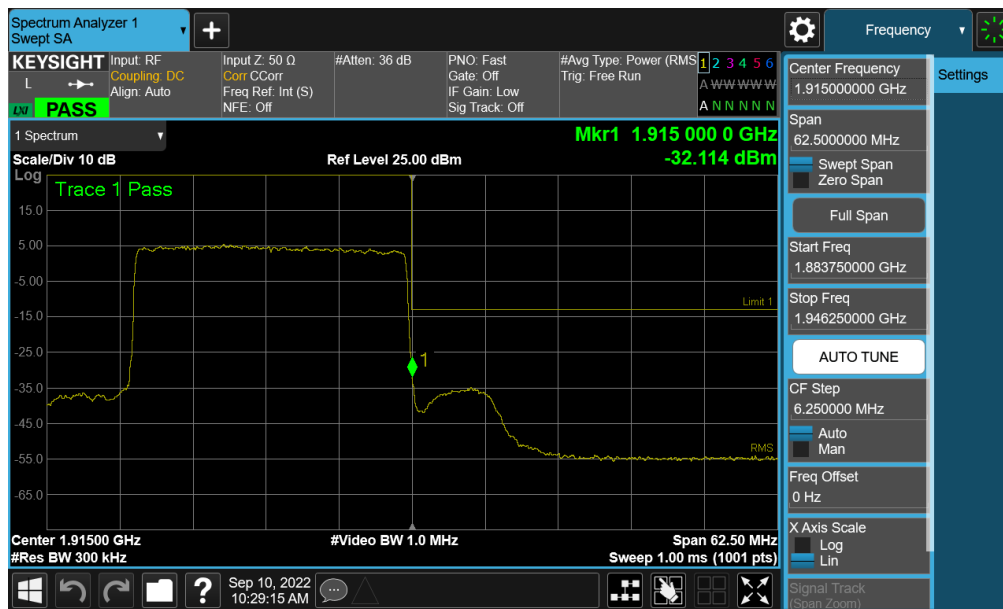


Plot 7-204. Lower Band Edge Plot (NR Band n25 - 25MHz QPSK – Full RB - ANT A)

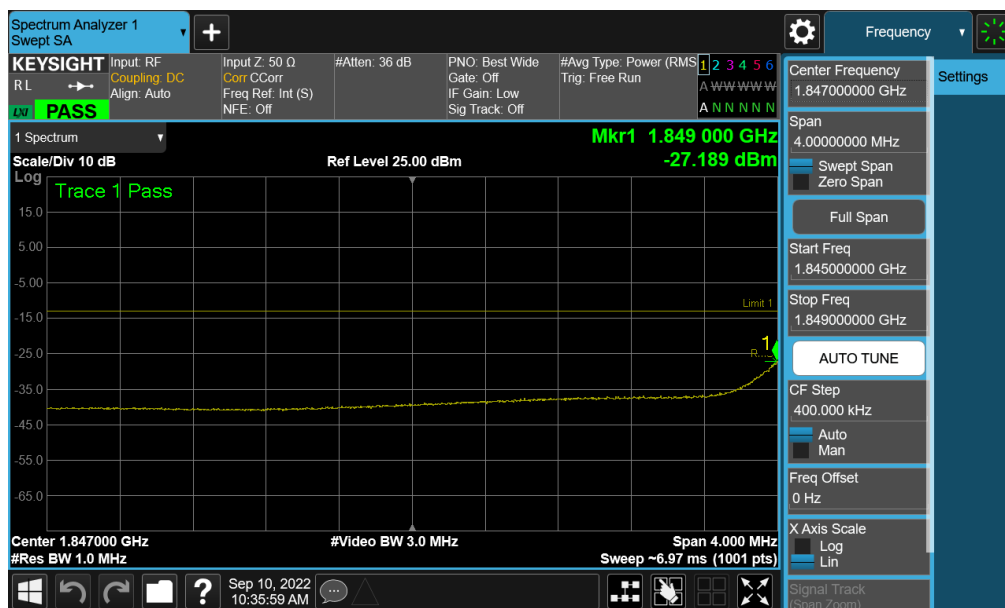
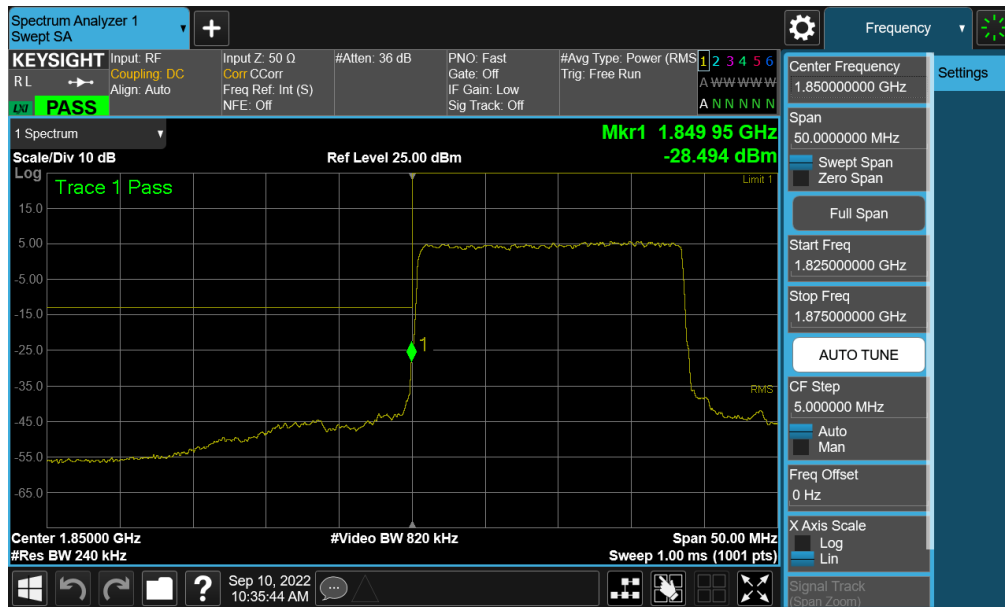


Plot 7-205. Extended Lower Band Edge Plot (NR Band n25 - 25MHz QPSK – Full RB - ANT A)

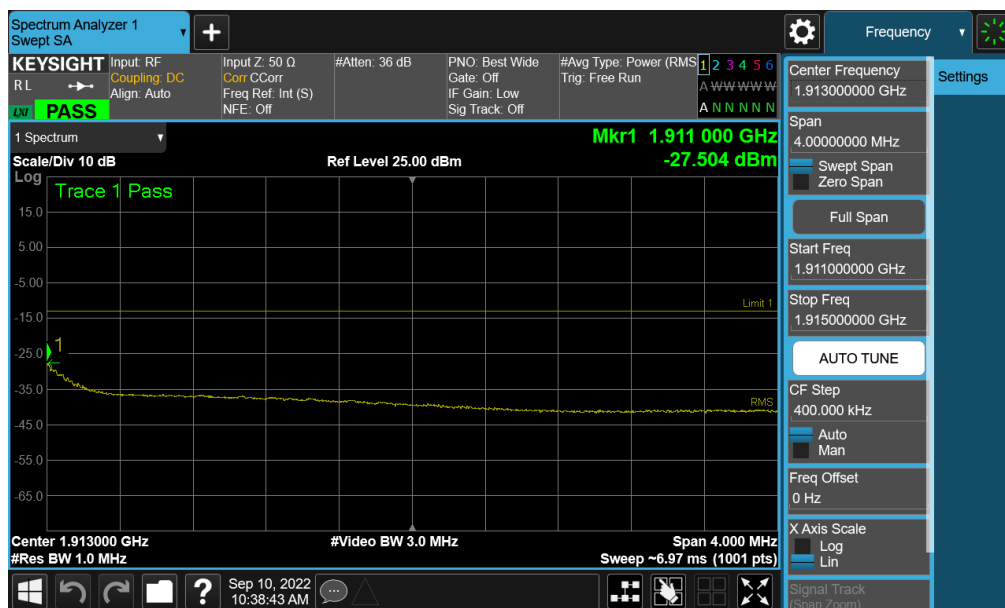
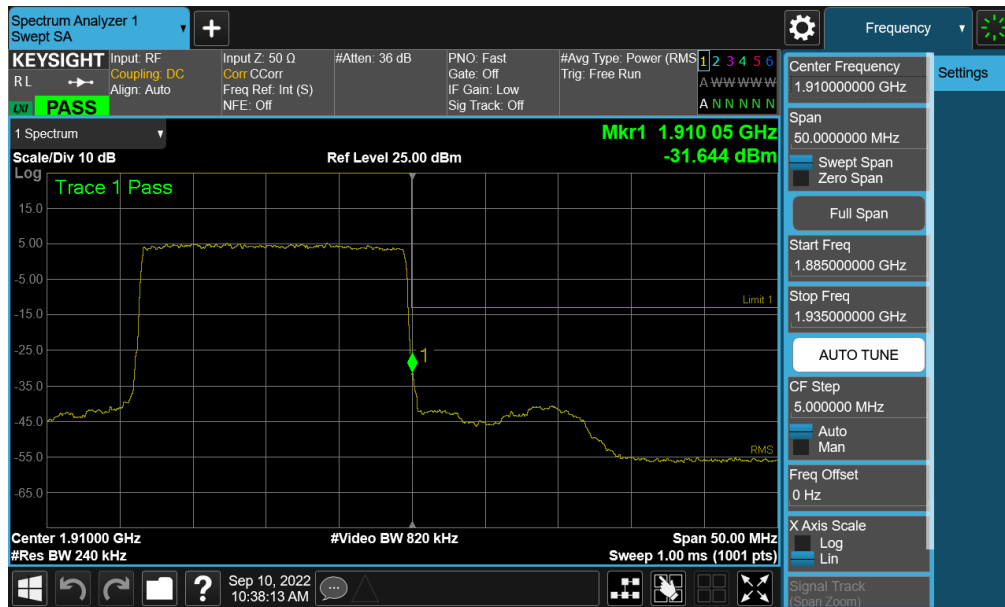
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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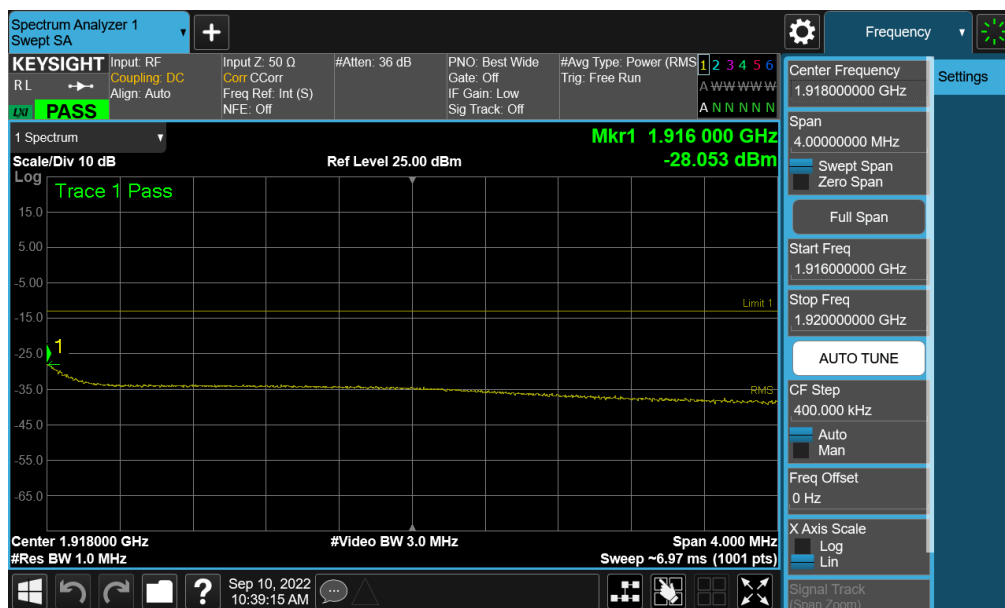
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-212. Upper Band Edge Plot (NR Band n25 - 20MHz QPSK – Full RB - ANT A)

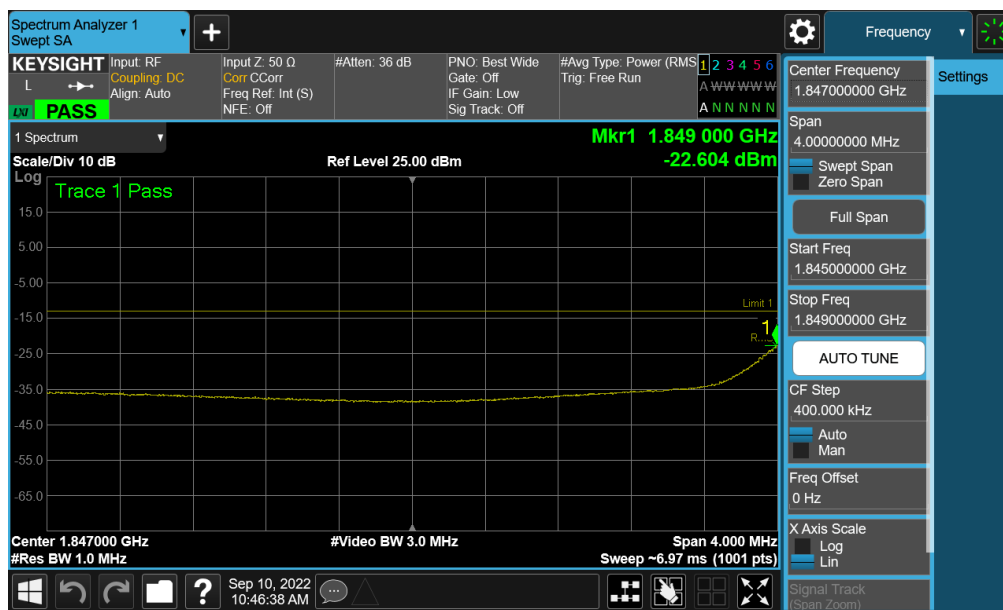


Plot 7-213. Extended Upper Band Edge Plot (NR Band n25 - 20MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-214. Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK – Full RB - ANT A)

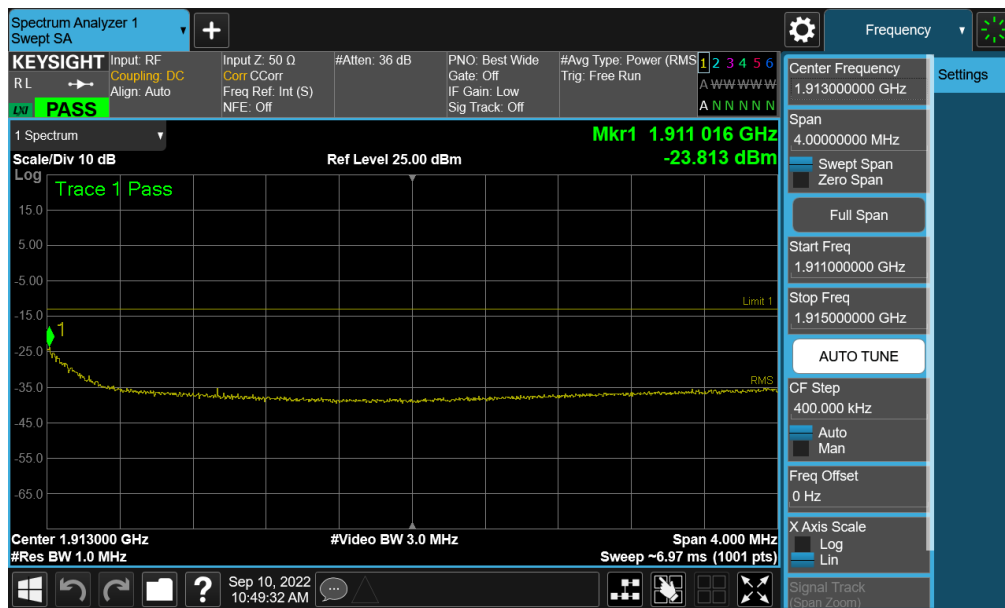


Plot 7-215. Extended Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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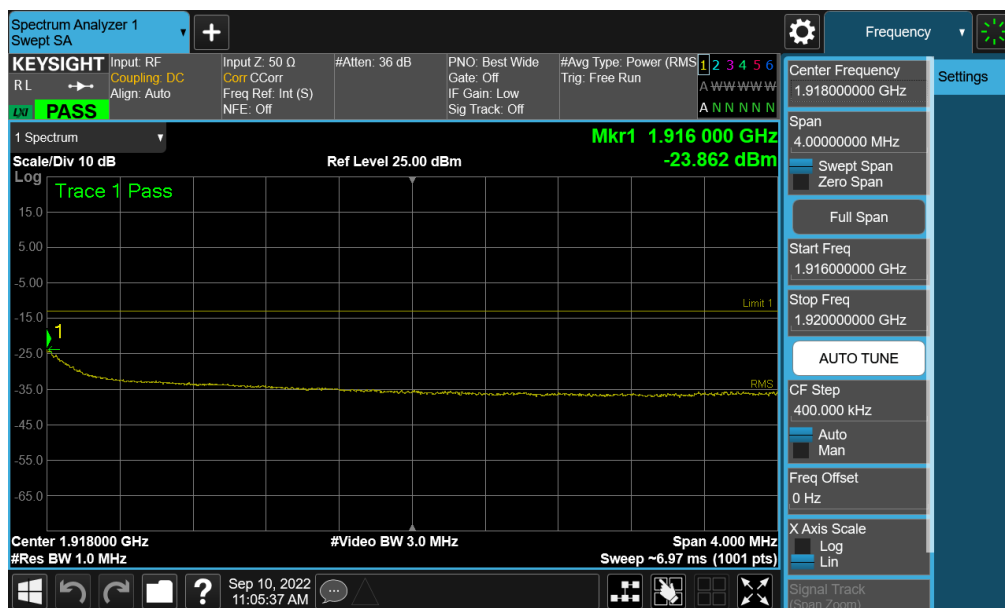


Plot 7-216. Upper Band Edge Plot (NR Band n2 - 15MHz QPSK – Full RB - ANT A)

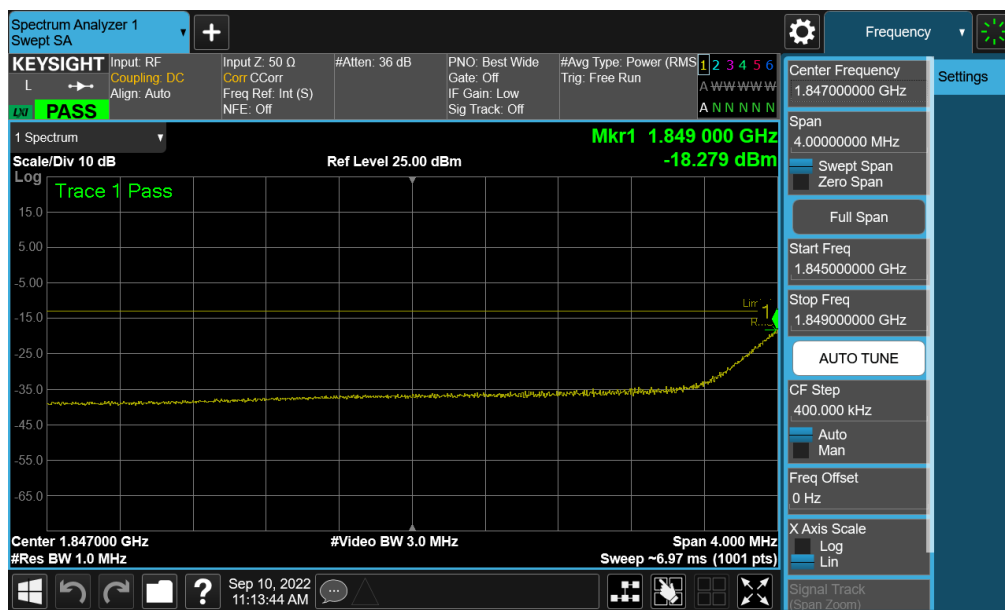
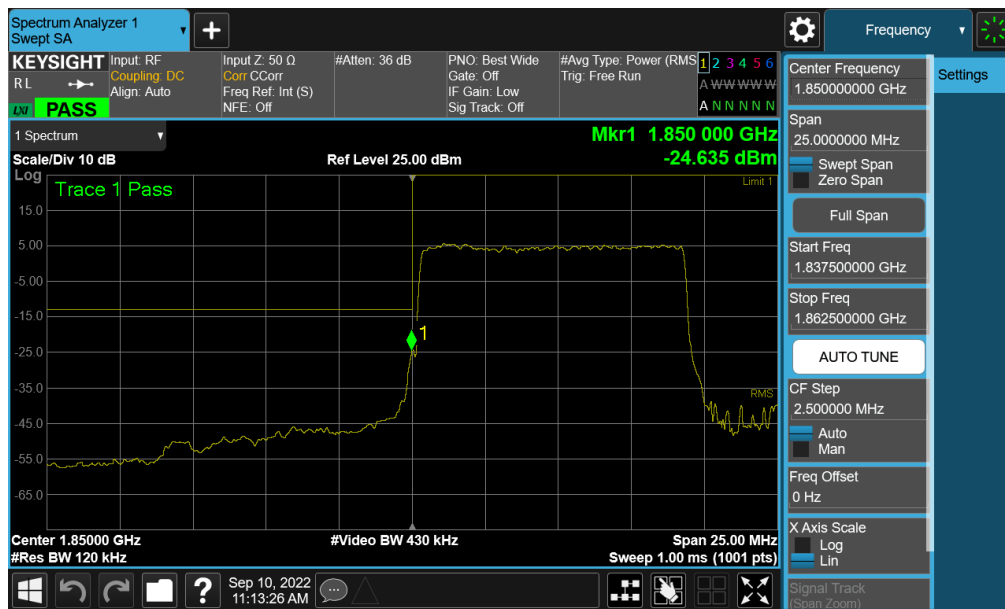


Plot 7-217. Extended Upper Band Edge Plot (NR Band n2 - 15MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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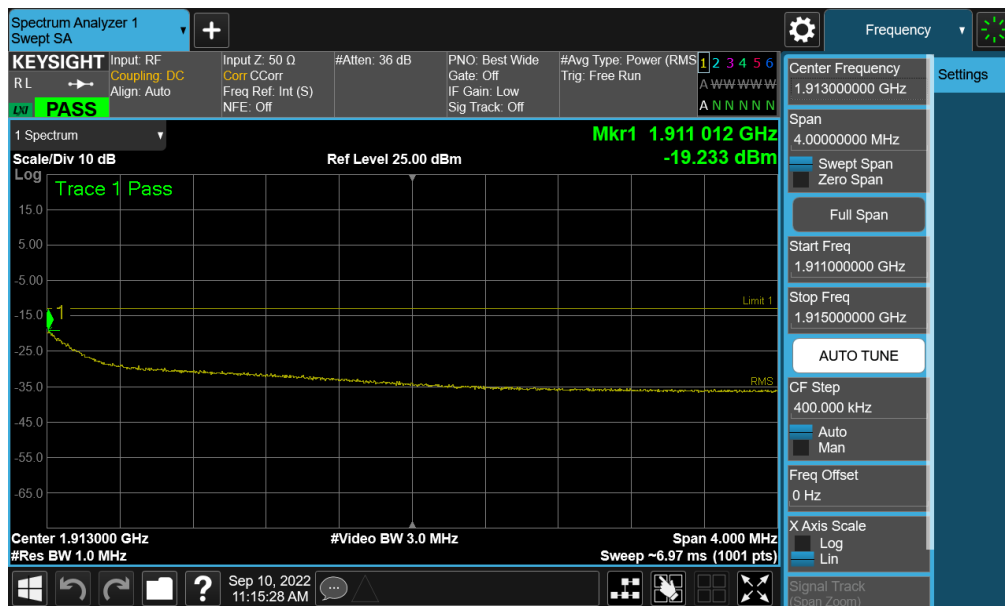
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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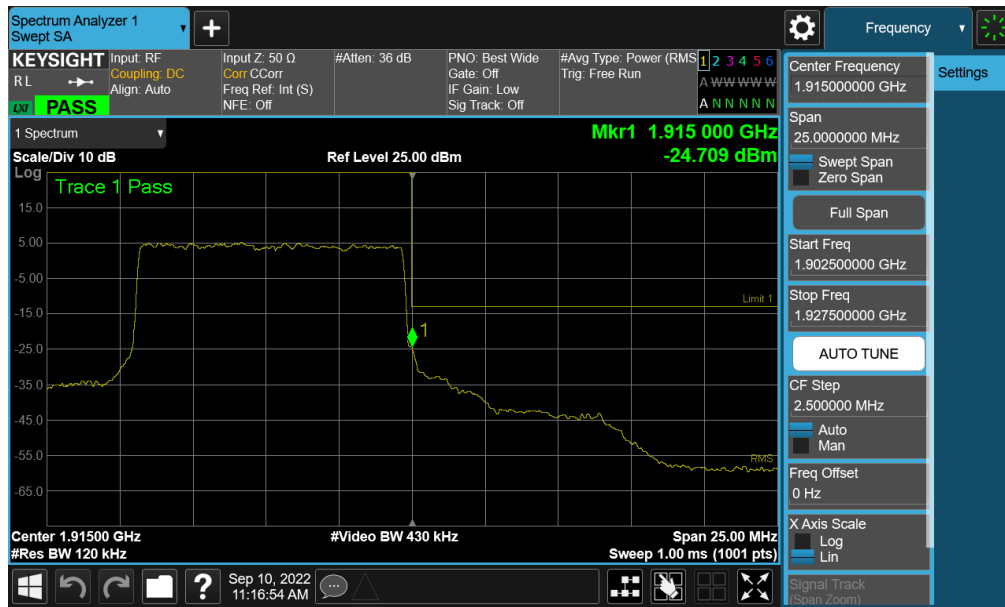


Plot 7-222. Upper Band Edge Plot (NR Band n2 - 10MHz QPSK – Full RB - ANT A)

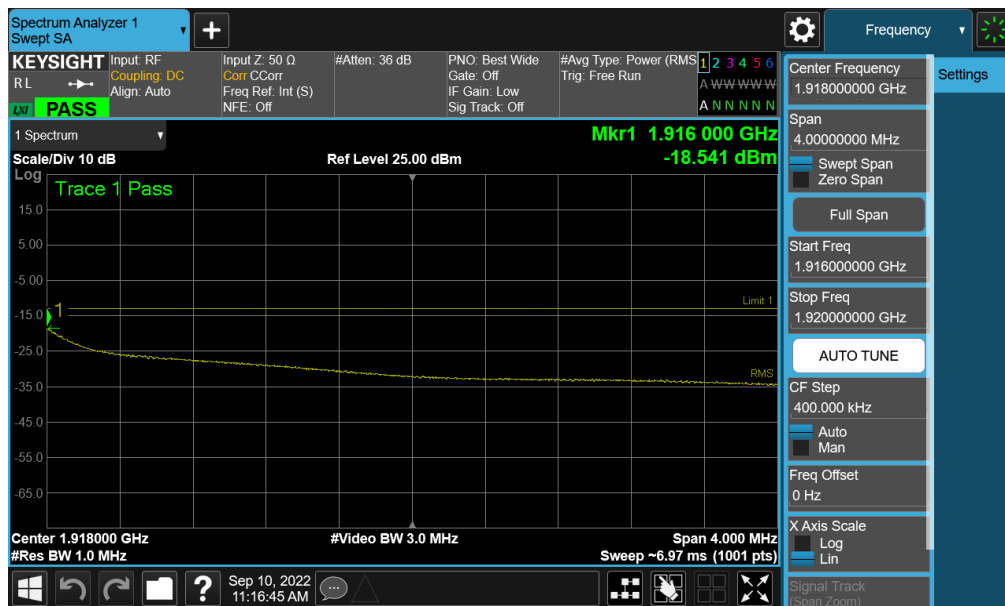


Plot 7-223. Extended Upper Band Edge Plot (NR Band n2 - 10MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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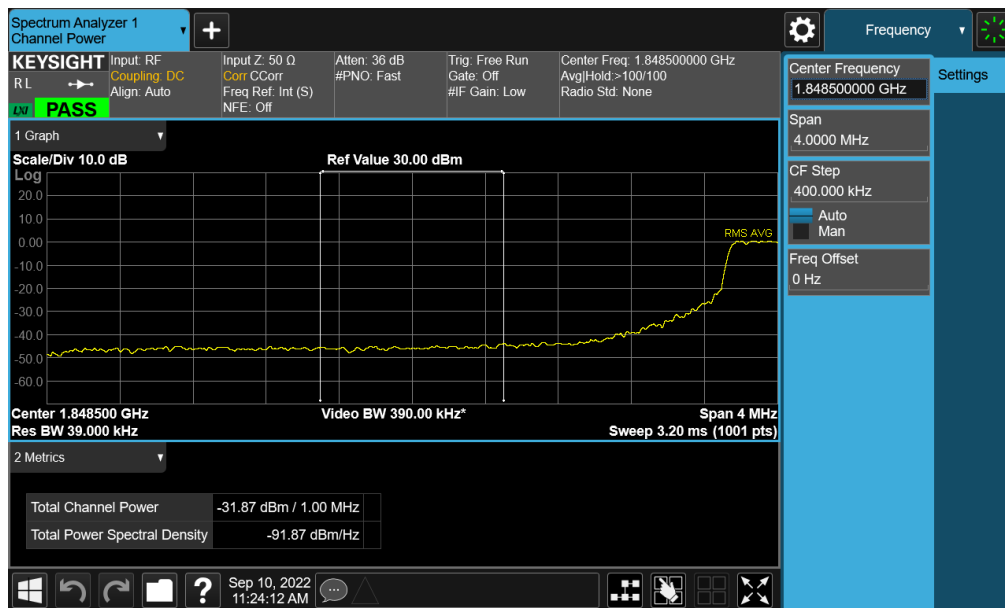


Plot 7-224. Upper Band Edge Plot (NR Band n25 - 10MHz QPSK – Full RB - ANT A)

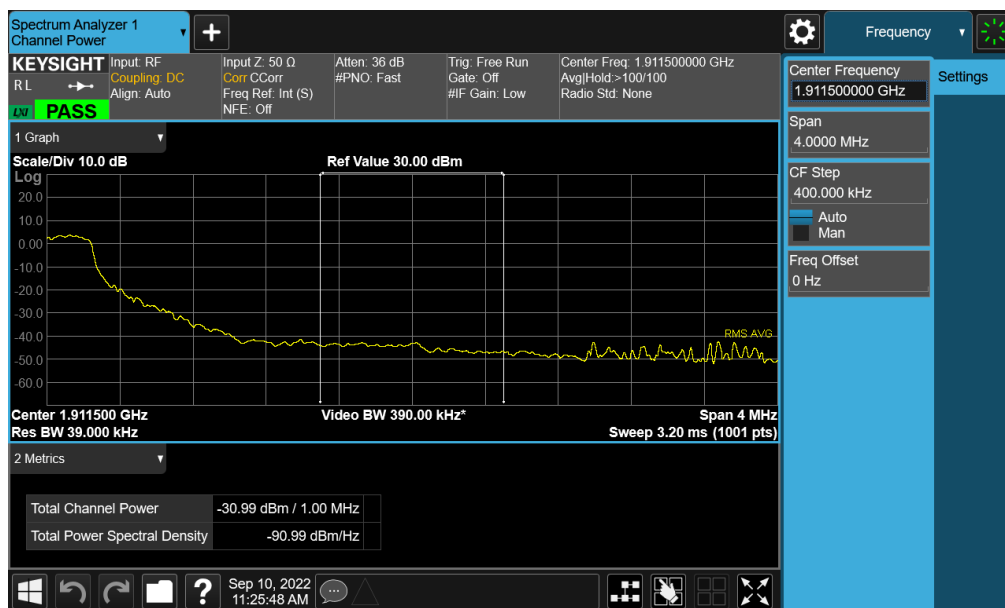


Plot 7-225. Extended Upper Band Edge Plot (NR Band n25 - 10MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-06.A3L	Test Dates: 9/12/2022 - 11/08/2022	EUT Type: Portable Handset	Page 137 of 229



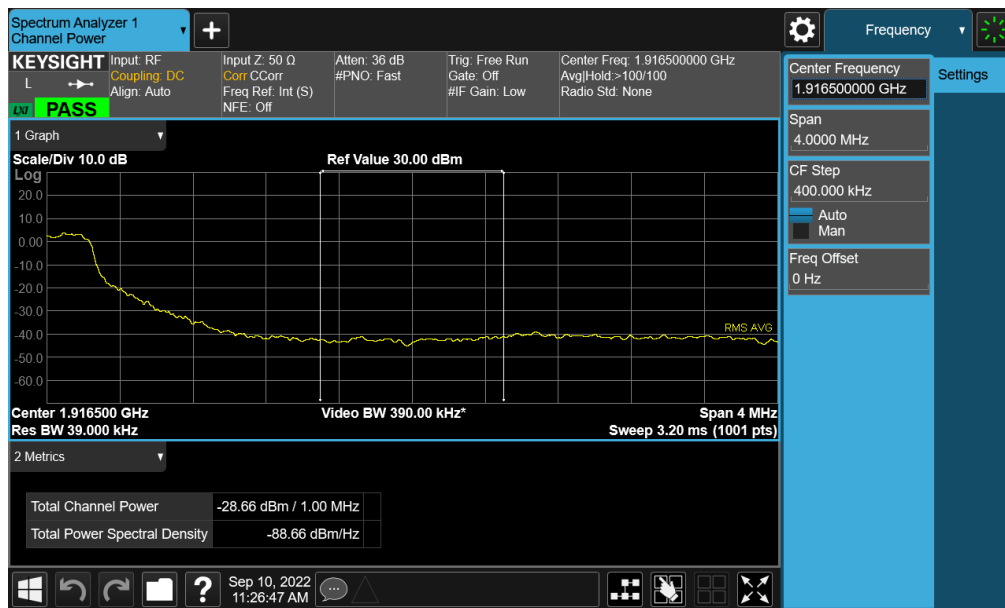
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-06.A3L	Test Dates: 9/12/2022 - 11/08/2022	EUT Type: Portable Handset	Page 138 of 229



FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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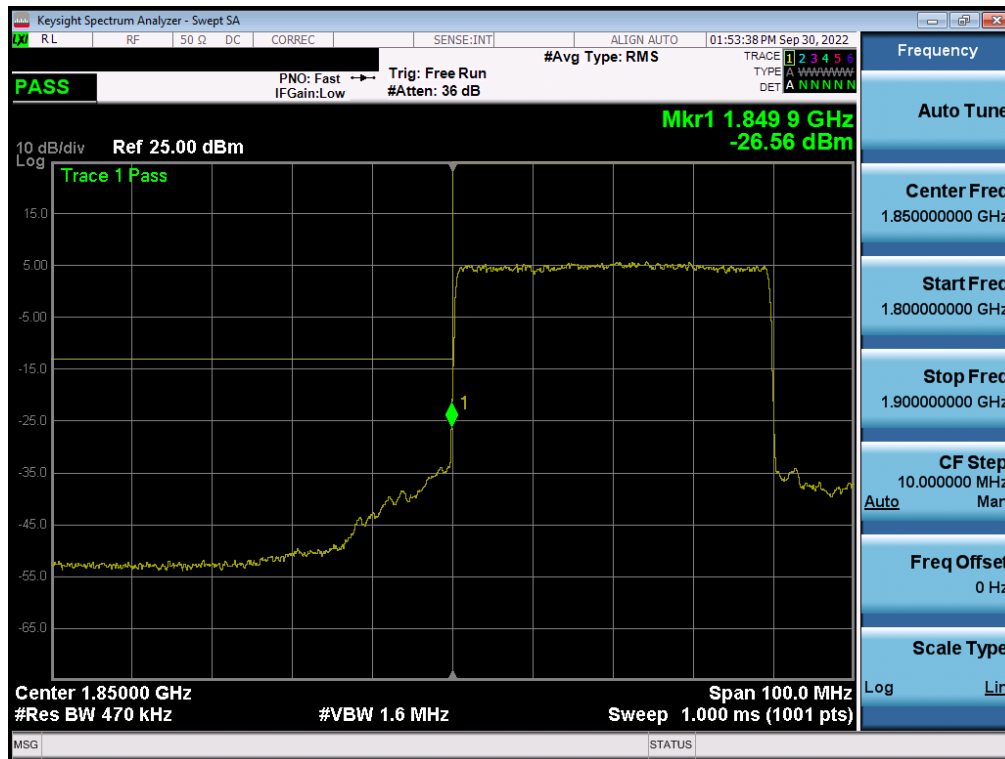
Plot 7-230. Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB - ANT A)



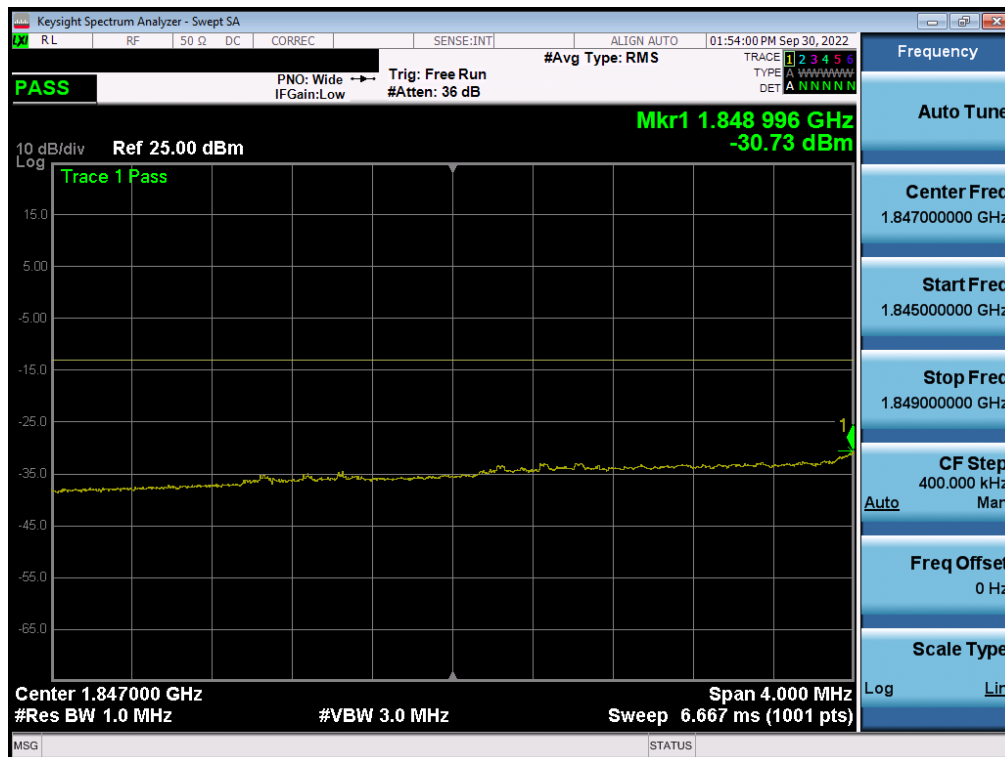
Plot 7-231. Extended Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB - ANT A)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n25/2 – ANT F

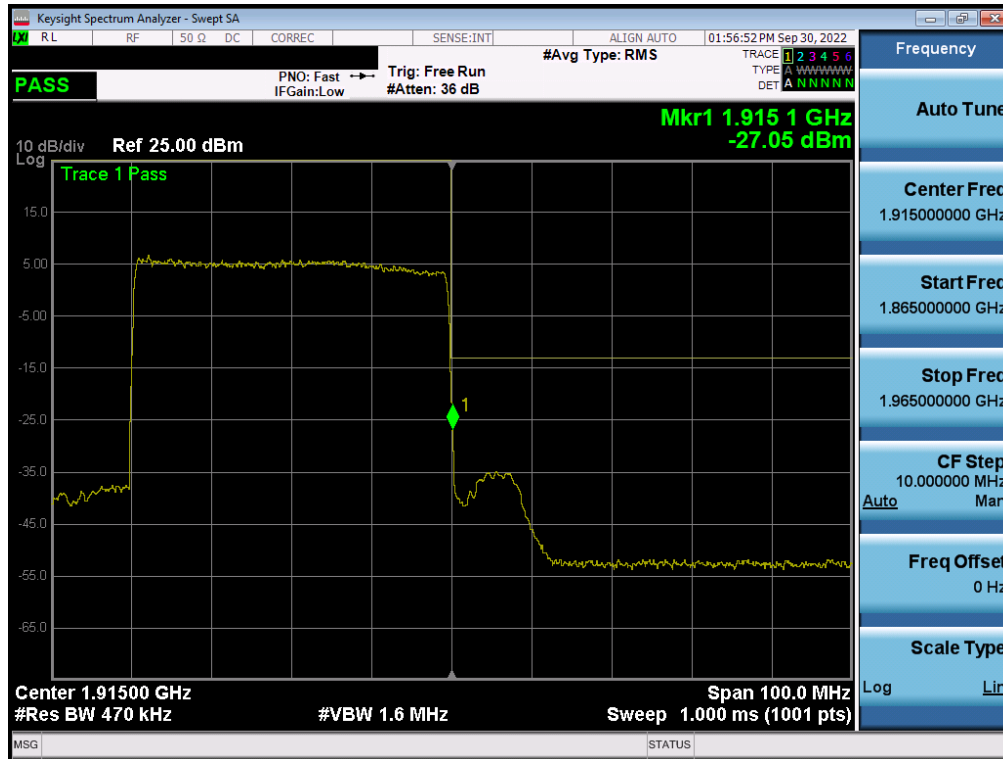


Plot 7-232. Lower Band Edge Plot (NR Band n25 - 40MHz QPSK – Full RB - ANT F)

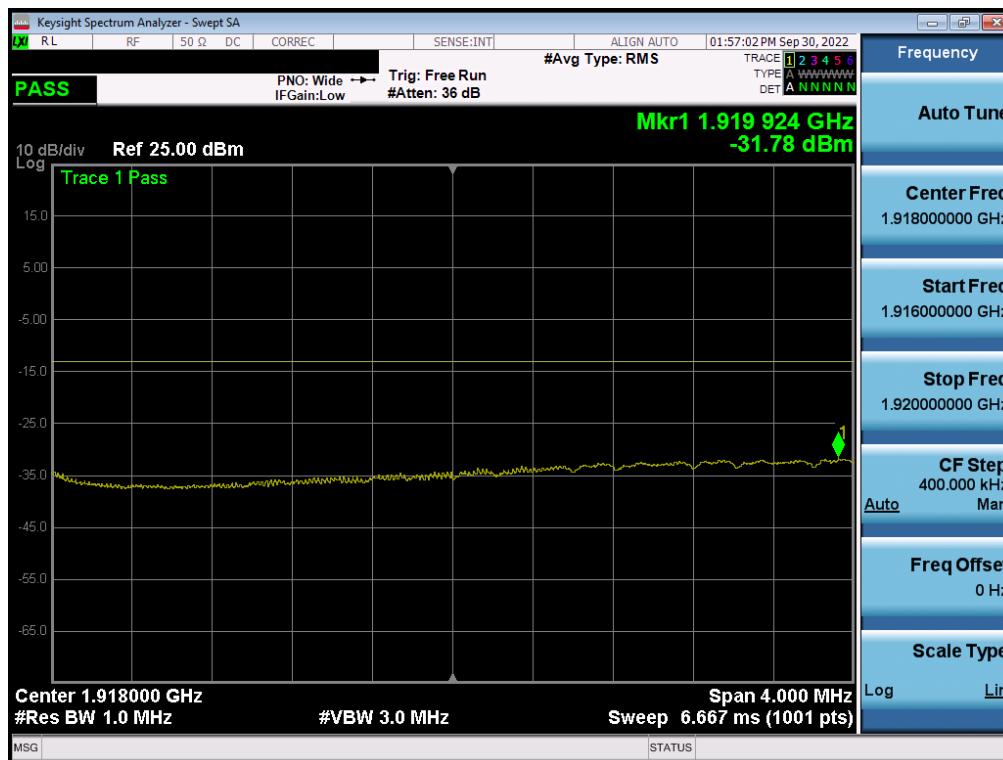


Plot 7-233. Extended Lower Band Edge Plot (NR Band n25 - 40MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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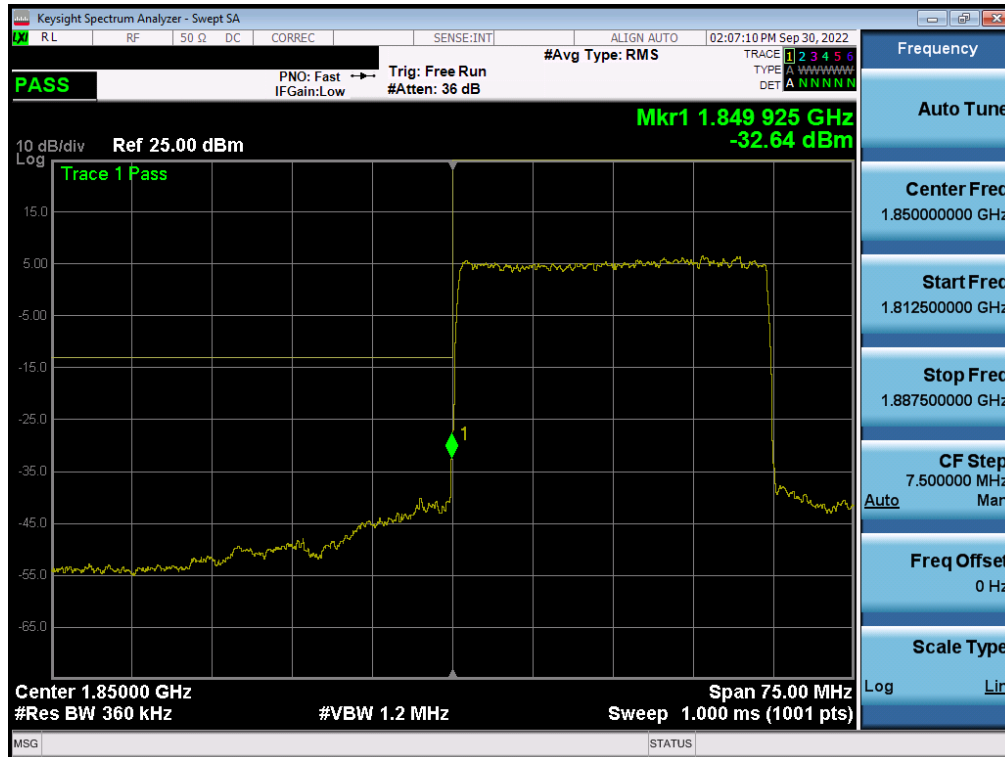


Plot 7-234. Upper Band Edge Plot (NR Band n25 - 40MHz QPSK – Full RB - ANT F)

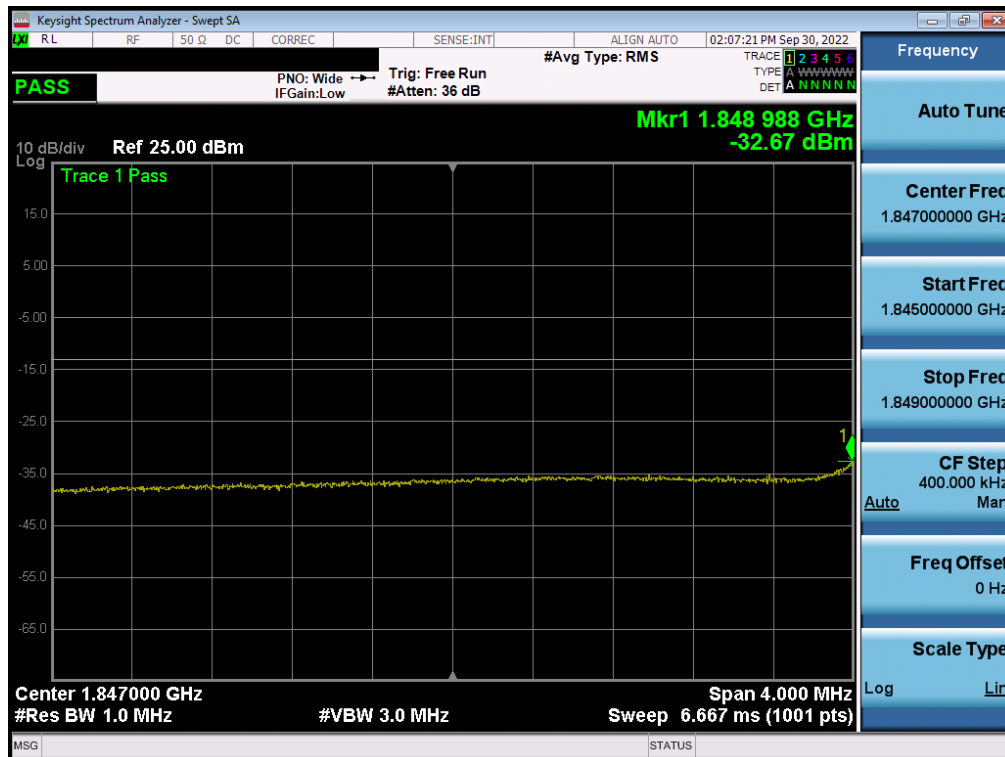


Plot 7-235. Extended Upper Band Edge Plot (NR Band n25 - 40MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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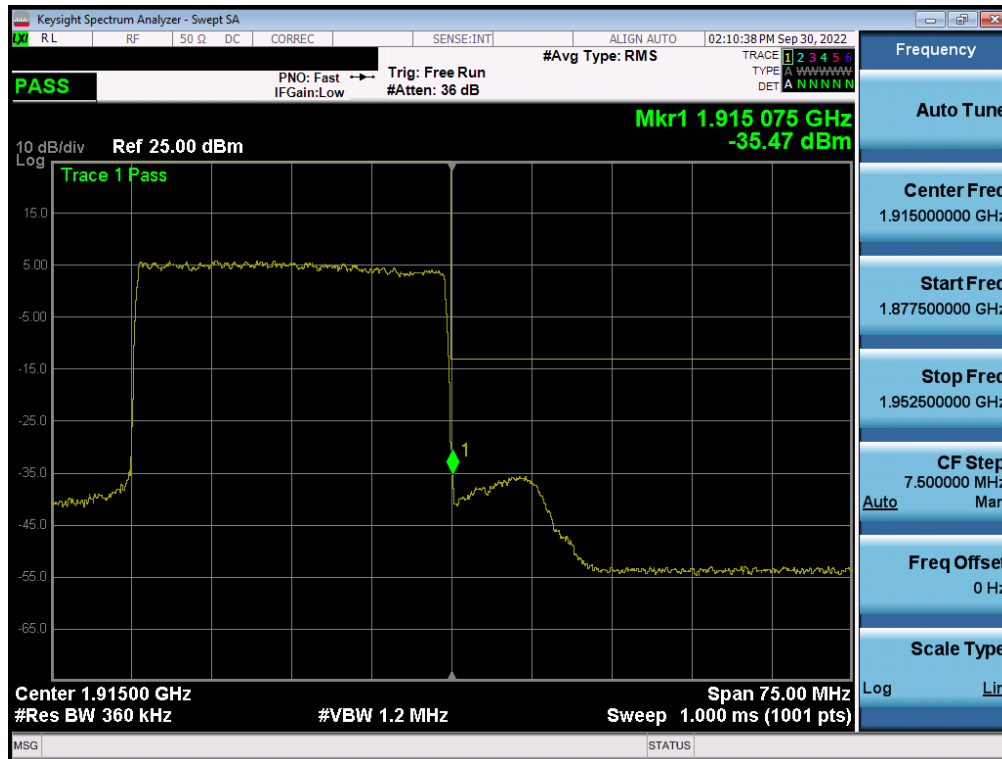


Plot 7-236. Lower Band Edge Plot (NR Band n25 - 30MHz QPSK – Full RB - ANT F)

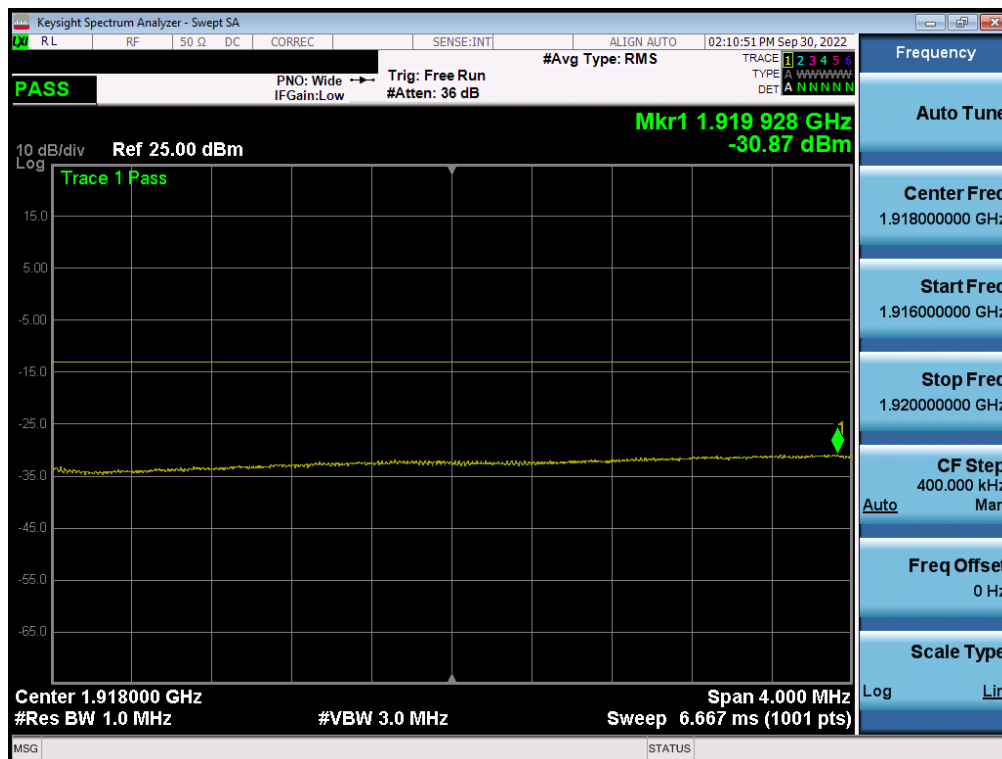


Plot 7-237. Extended Lower Band Edge Plot (NR Band n25 - 30MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-238. Upper Band Edge Plot (NR Band n25 - 30MHz QPSK – Full RB - ANT F)

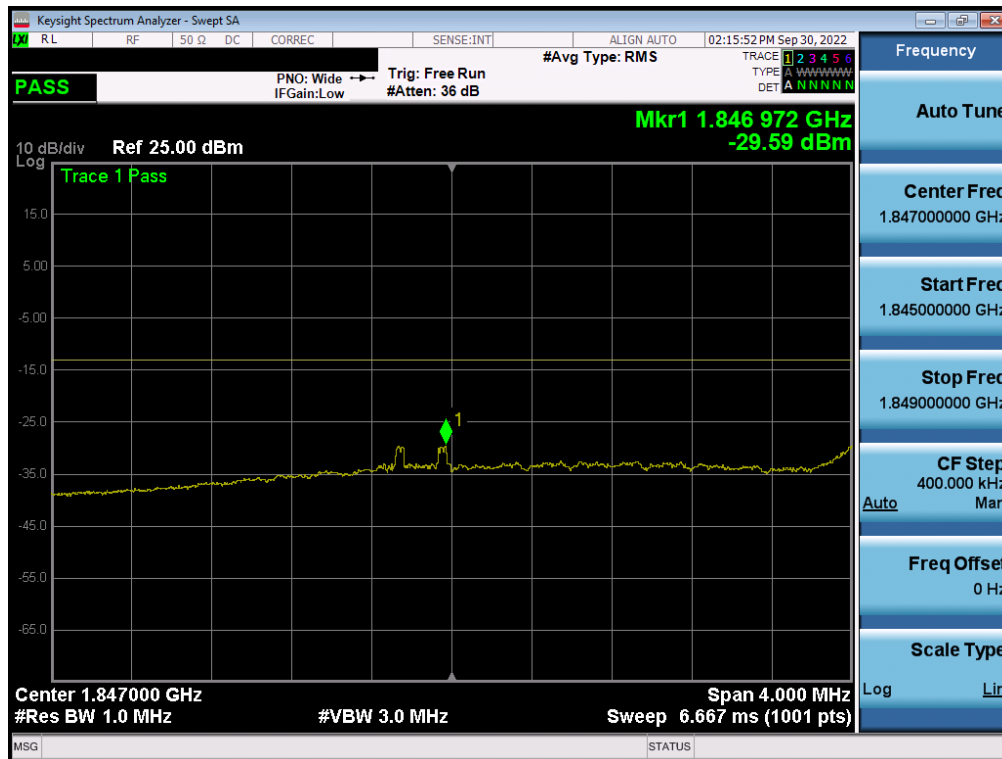


Plot 7-239. Extended Upper Band Edge Plot (NR Band n25 - 30MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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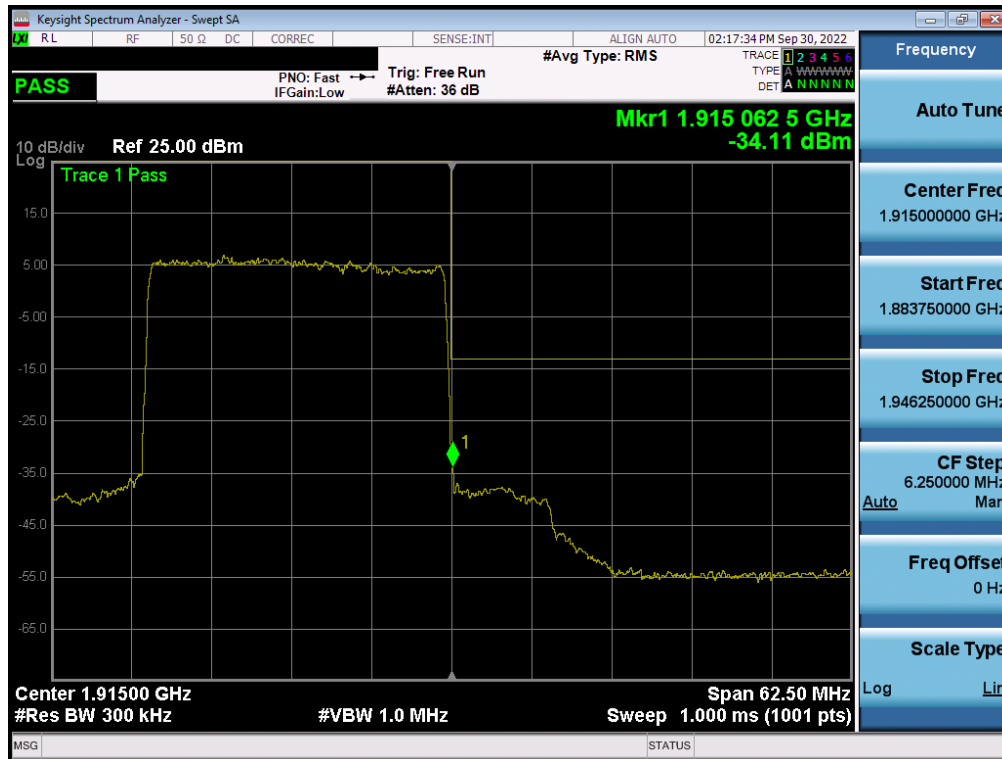


Plot 7-240. Lower Band Edge Plot (NR Band n25 - 25MHz QPSK - Full RB - ANT F)

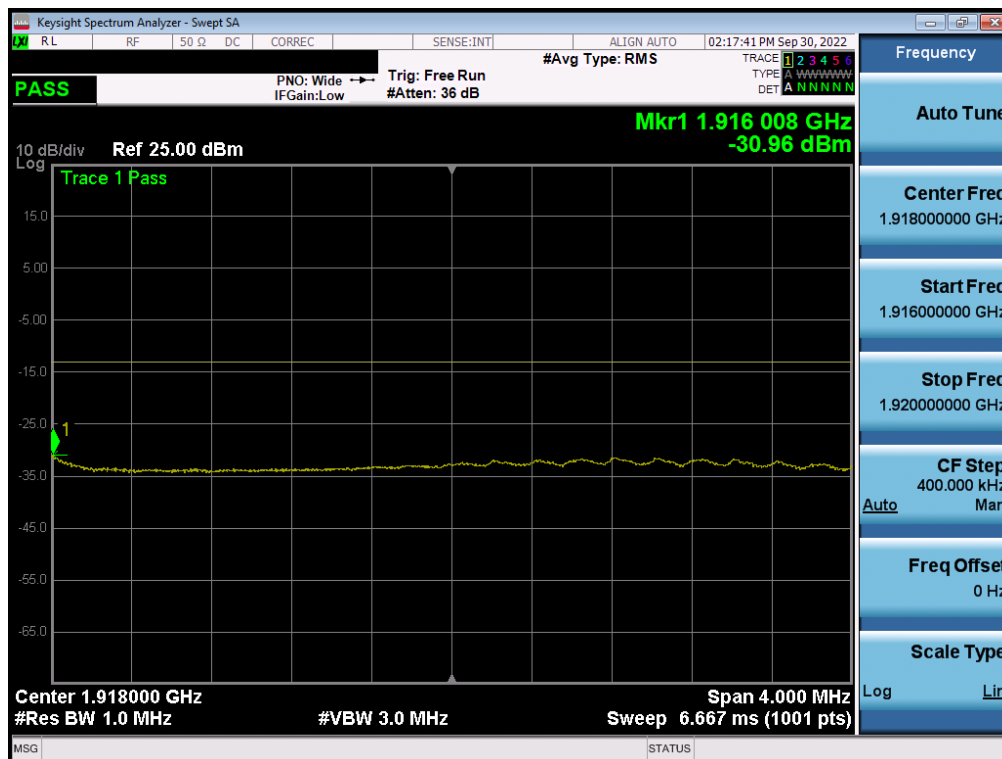


Plot 7-241. Extended Lower Band Edge Plot (NR Band n25 - 25MHz QPSK - Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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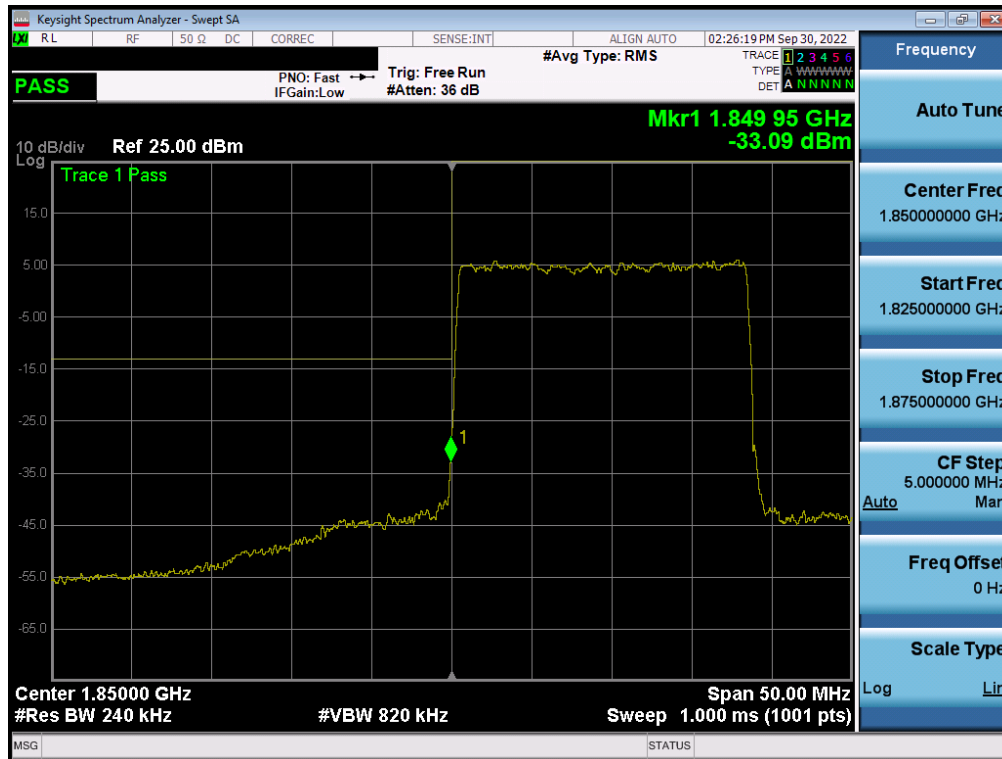


Plot 7-242. Upper Band Edge Plot (NR Band n25 - 25MHz QPSK – Full RB - ANT F)

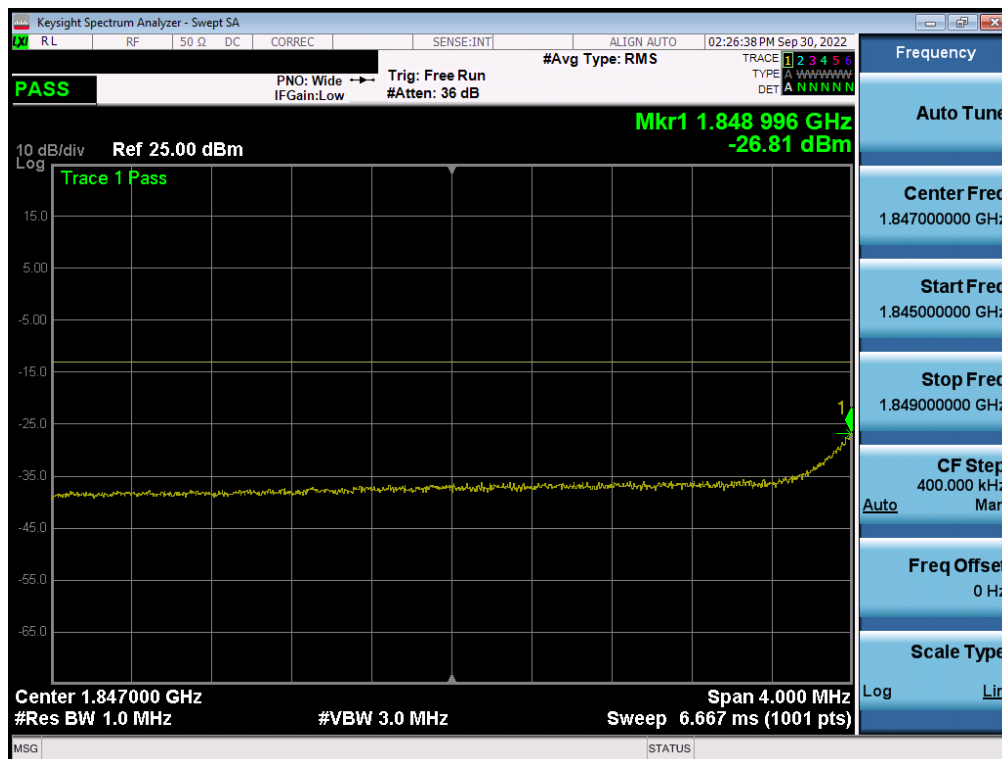


Plot 7-243. Extended Upper Band Edge Plot (NR Band n25 - 25MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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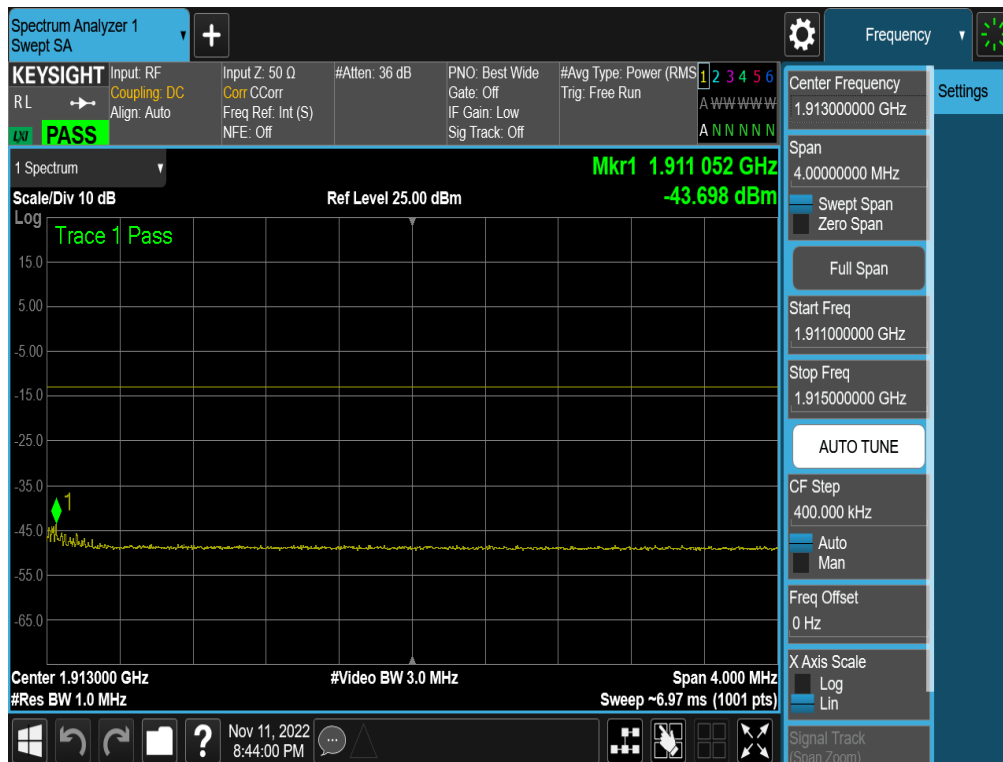


Plot 7-244. Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK – Full RB - ANT F)



Plot 7-245. Extended Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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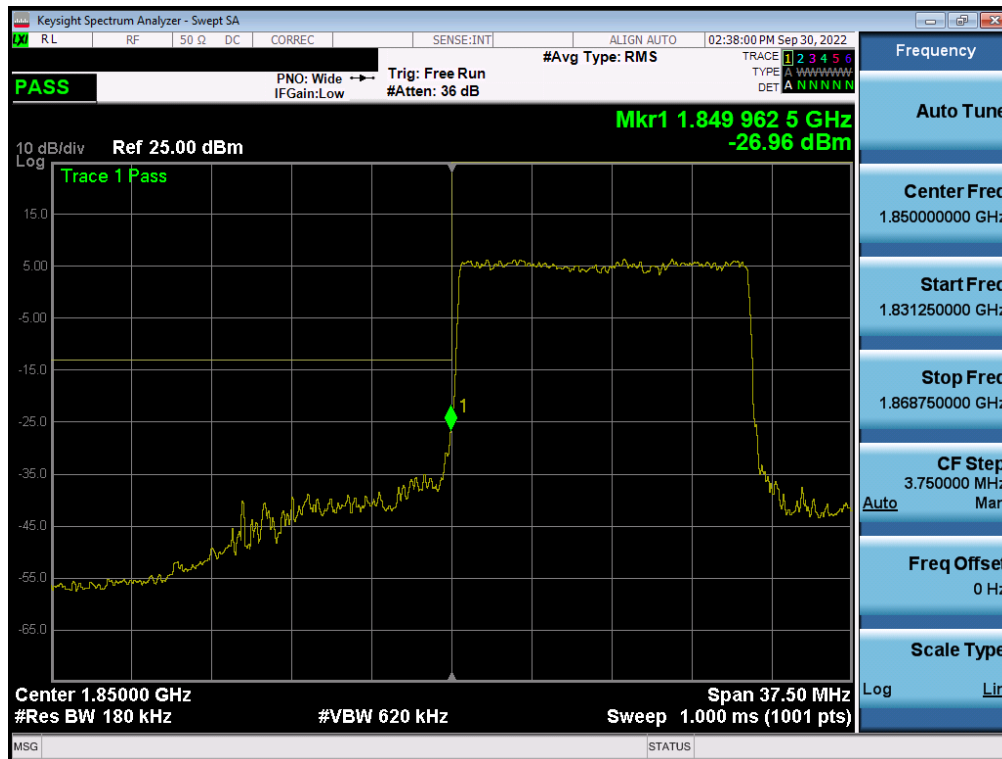


Plot 7-248. Upper Band Edge Plot (NR Band n25 - 20MHz QPSK – Full RB - ANT F)

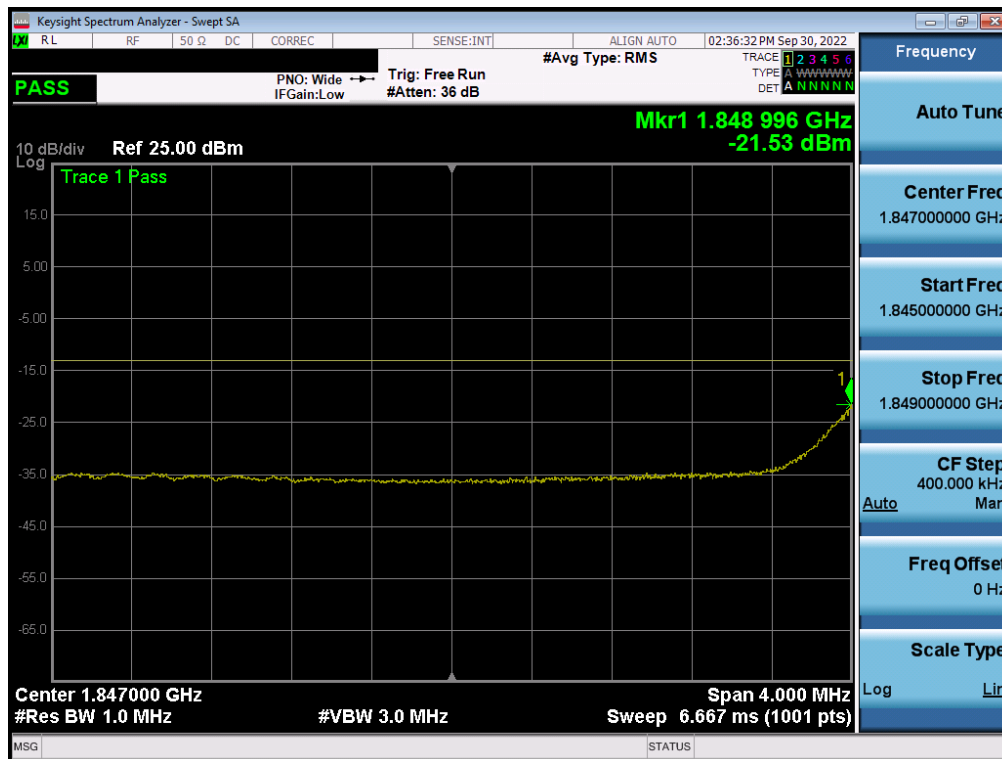


Plot 7-249. Extended Upper Band Edge Plot (NR Band n25 - 20MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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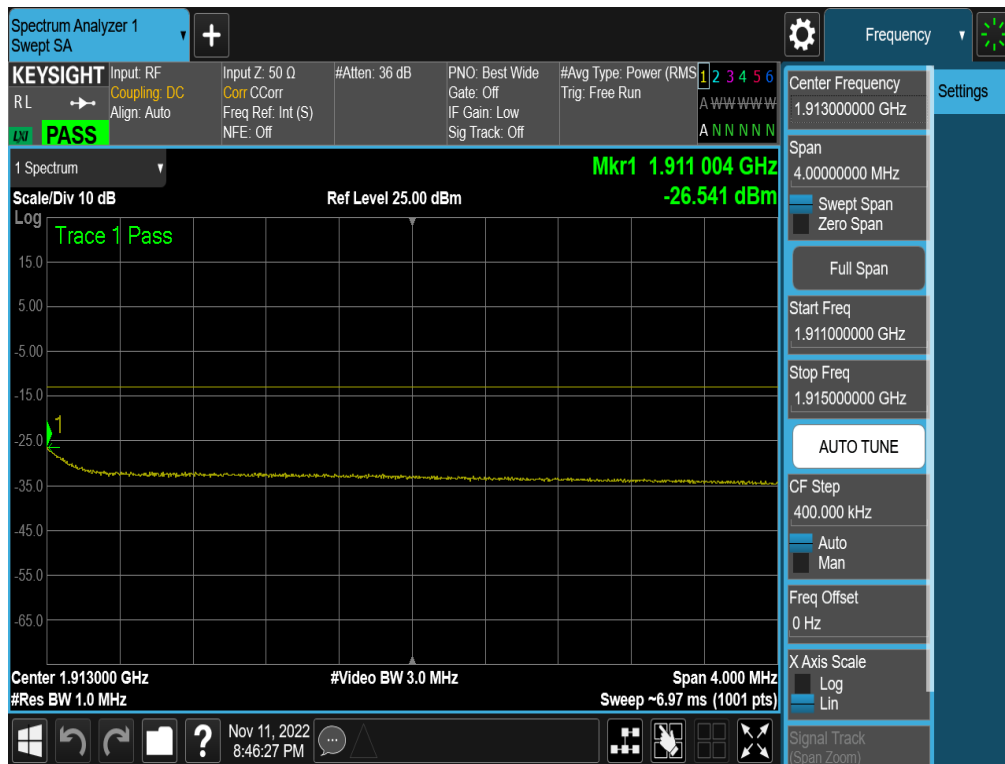
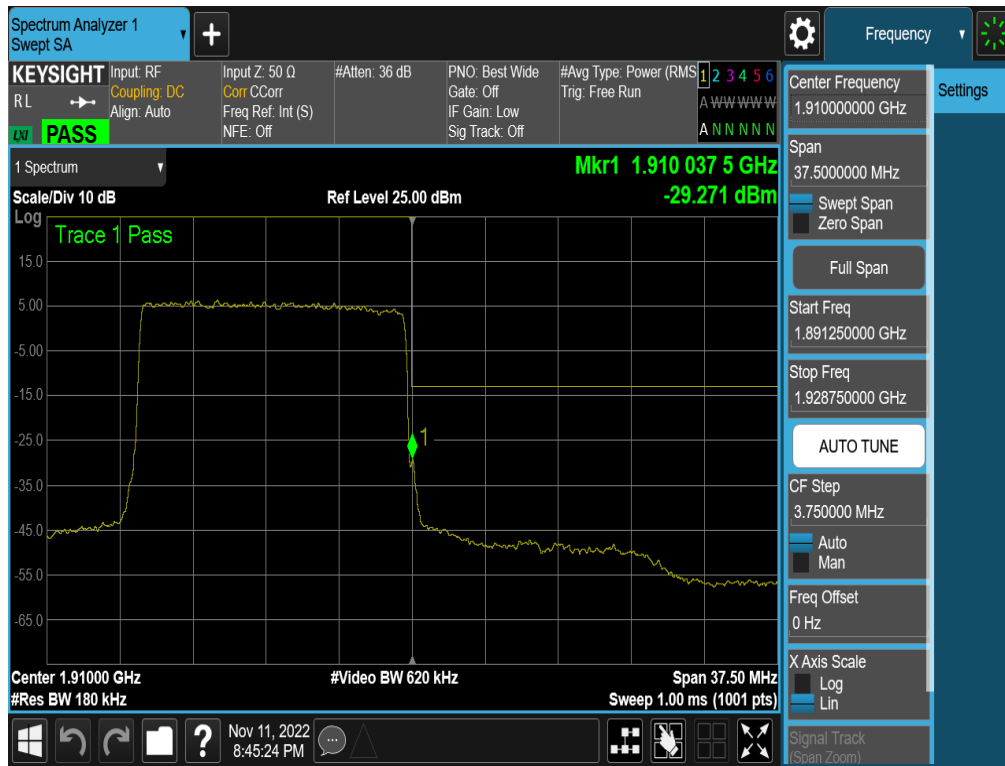


Plot 7-250. Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK – Full RB - ANT F)



Plot 7-251. Extended Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK – Full RB - ANT F)

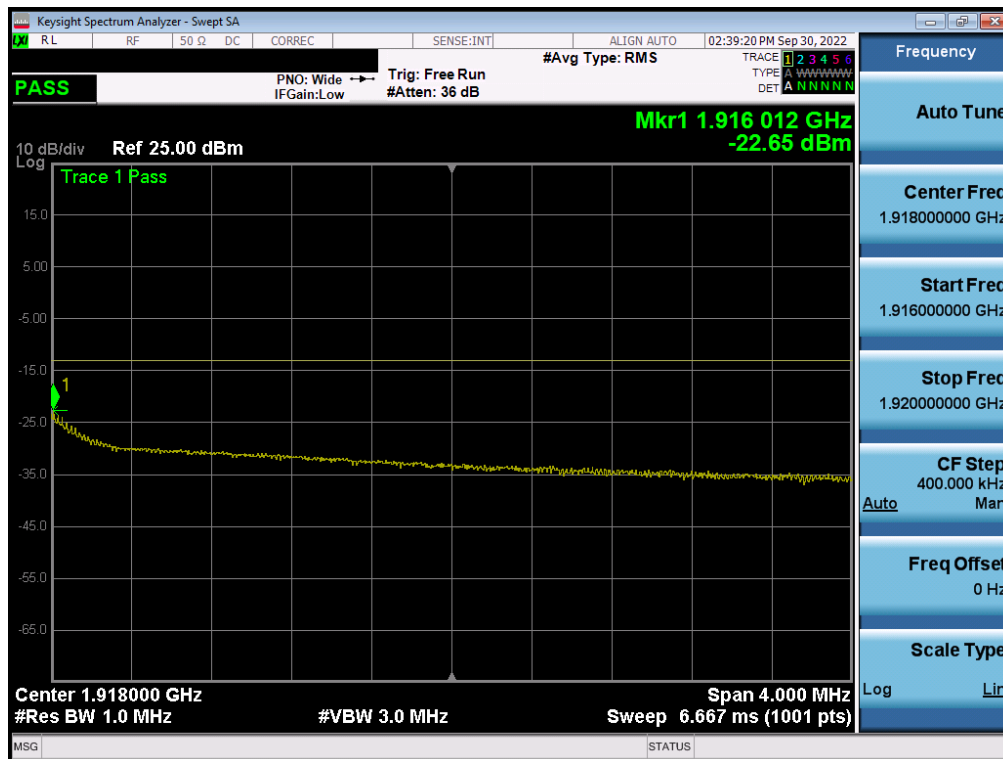
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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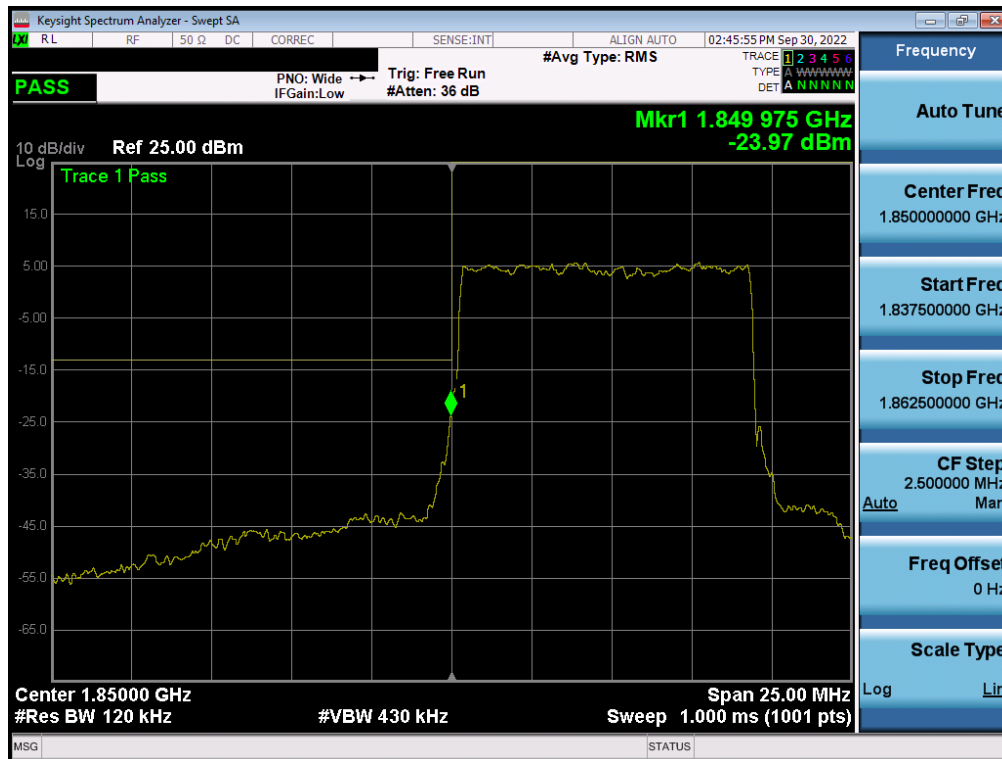


Plot 7-254. Upper Band Edge Plot (NR Band n25 - 15MHz QPSK – Full RB - ANT F)

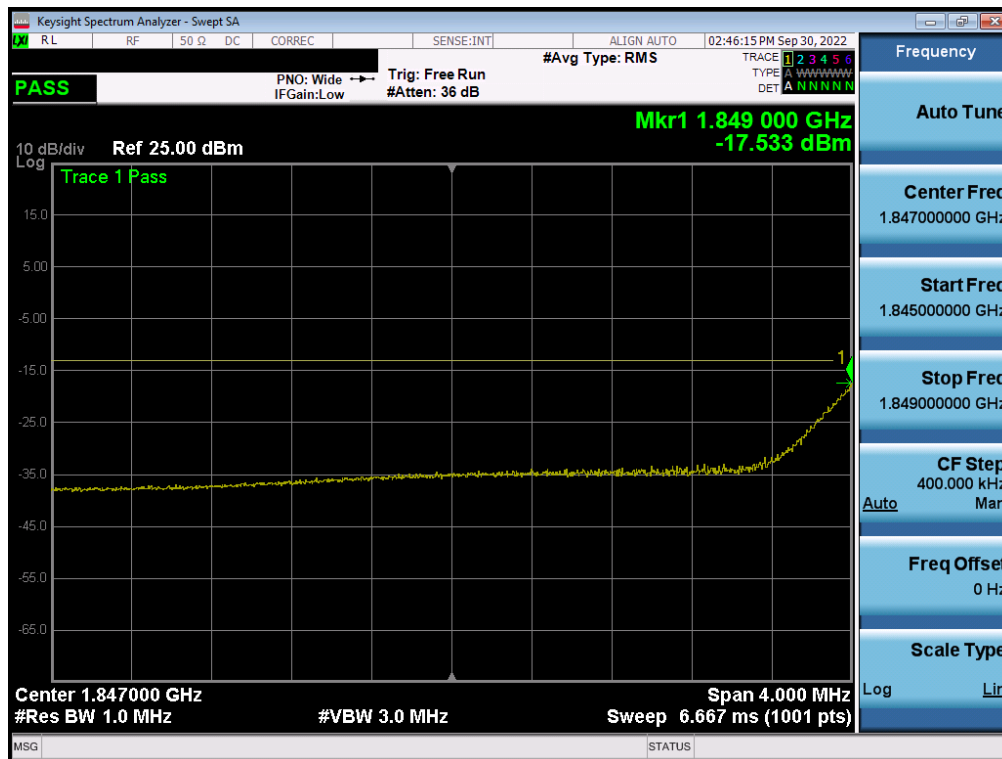


Plot 7-255. Extended Upper Band Edge Plot (NR Band n25 - 15MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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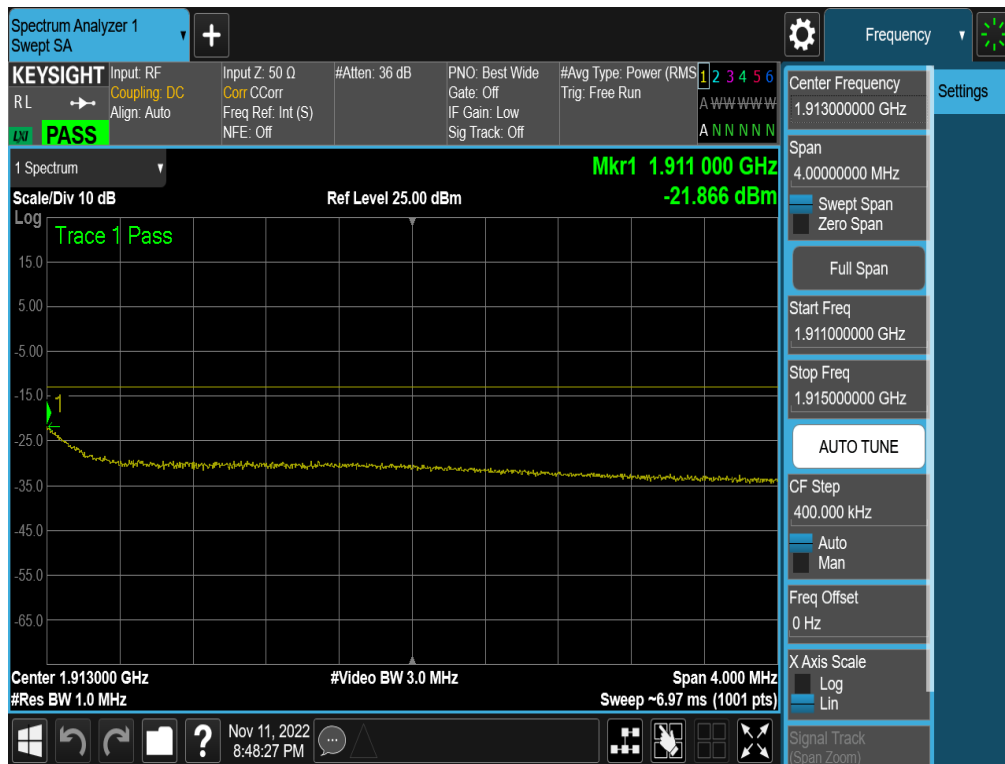


Plot 7-256. Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB - ANT F)



Plot 7-257. Extended Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB - ANT F)

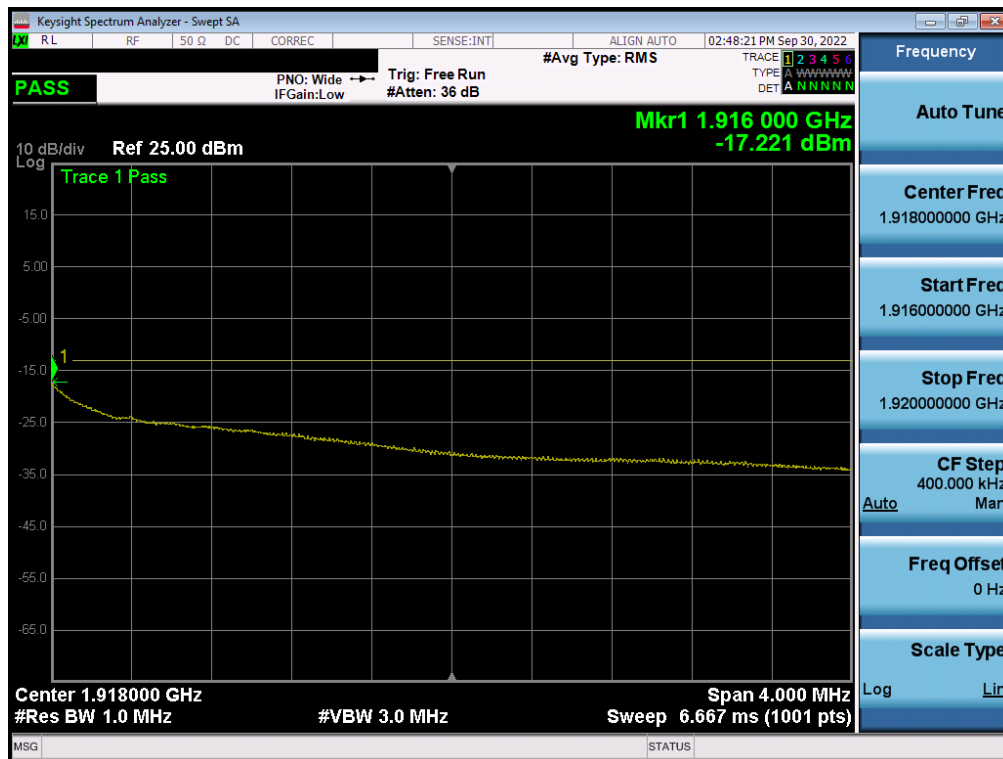
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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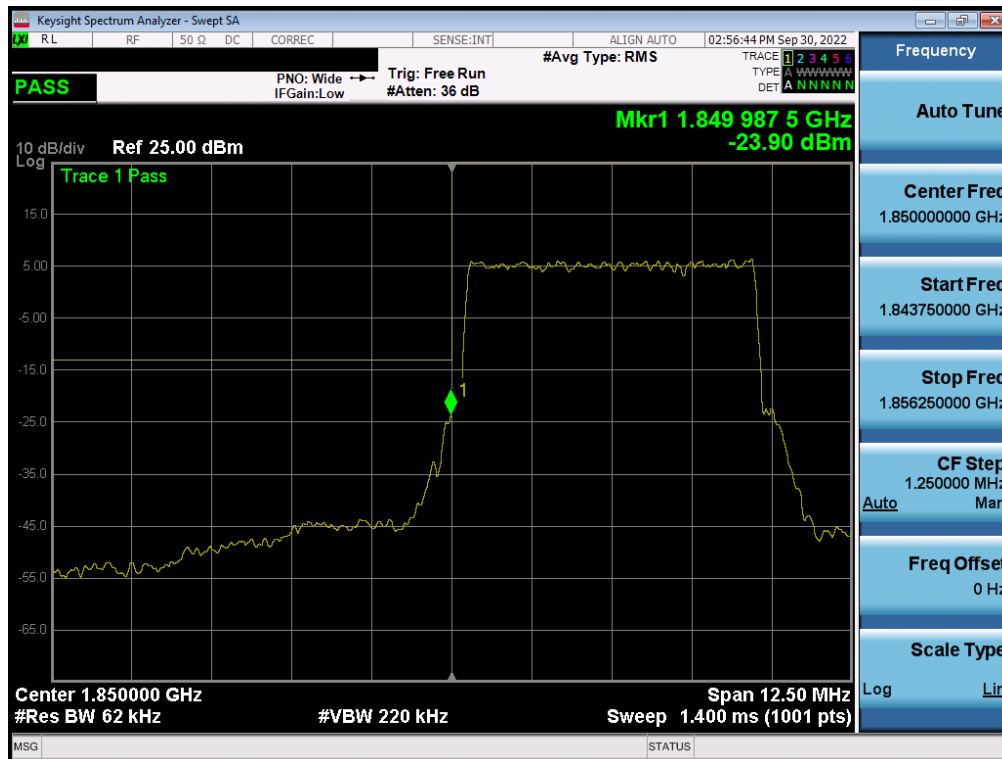


Plot 7-260. Upper Band Edge Plot (NR Band n25 - 10MHz QPSK – Full RB - ANT F)

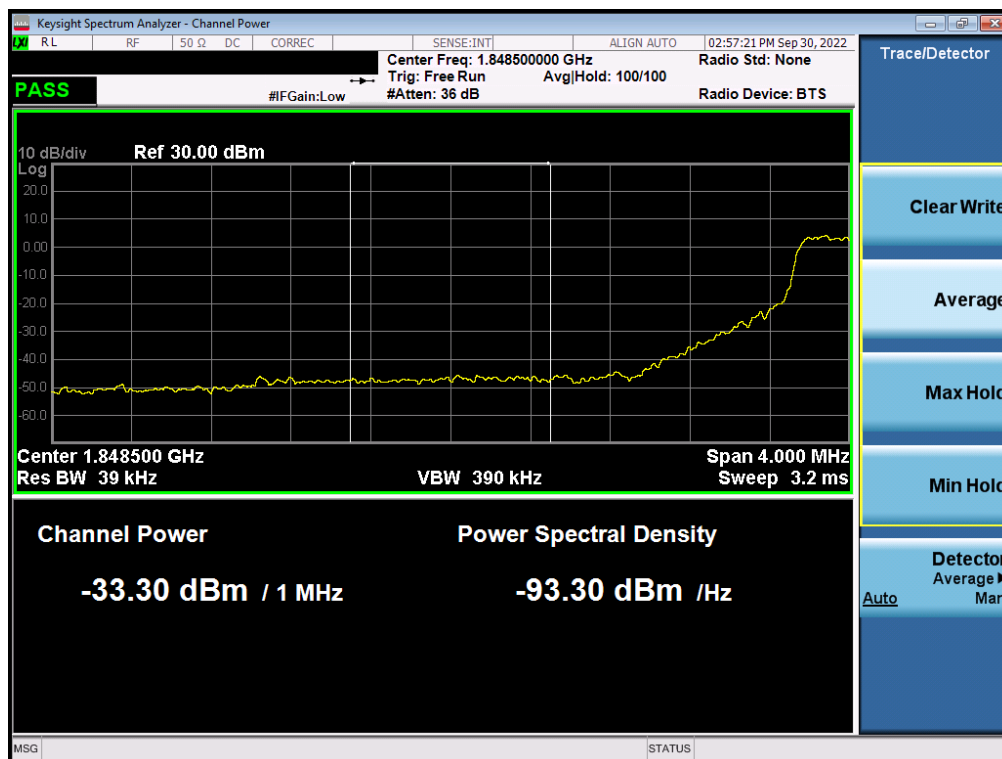


Plot 7-261. Extended Upper Band Edge Plot (NR Band n25 - 10MHz QPSK – Full RB - ANT F)

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Plot 7-262. Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - ANT F)



Plot 7-263. Extended Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - ANT F)

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Plot 7-264. Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - ANT F)

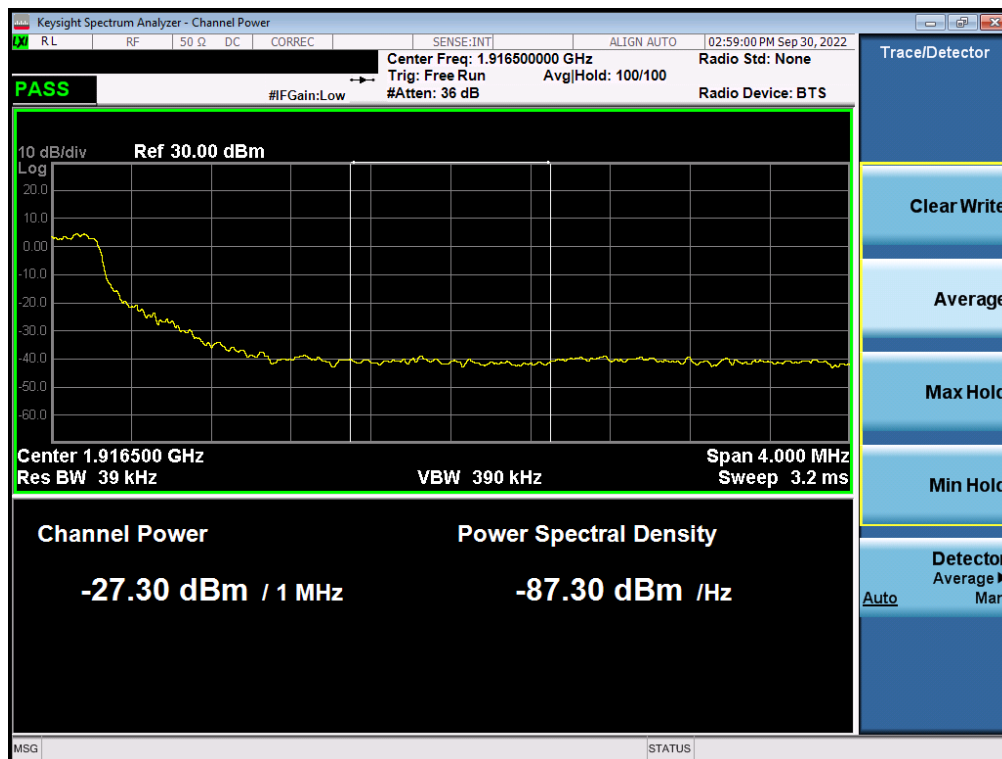


Plot 7-265. Extended Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - ANT F)

FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-266. Upper Band Edge Plot (NR Band n25 - 5MHz QPSK - Full RB - ANT F)



Plot 7-267. Extended Upper Band Edge Plot (NR Band n25 - 5MHz QPSK - Full RB - ANT F)

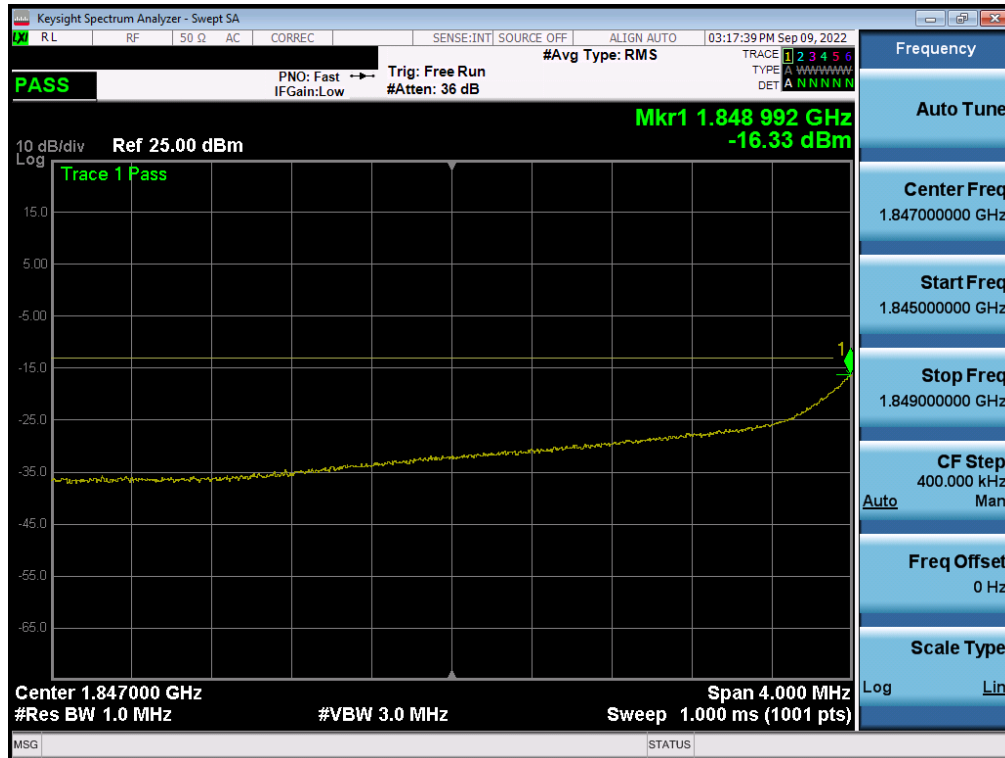
FCC ID: A3LSMS918U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-06.A3L	Test Dates: 9/12/2022 - 11/08/2022	EUT Type: Portable Handset	Page 158 of 229



## WCDMA PCS – ANT A



Plot 7-270. Lower Band Edge Plot (WCDMA PCS – Ch. 9262 - ANT A)



Plot 7-271. Extended Lower Band Edge Plot (WCDMA PCS – Ch. 9262 - ANT A)

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Plot 7-272. Upper Band Edge Plot (WCDMA PCS – Ch. 9538 - ANT A)



Plot 7-273. Extended Upper Band Edge Plot (WCDMA PCS – Ch. 9538 - ANT A)

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## 7.6 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.

***The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.***

### Test Procedure Used

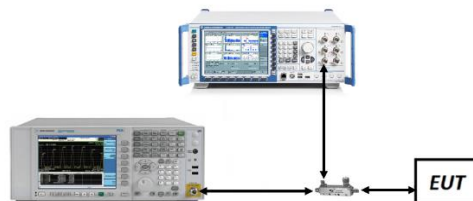
ANSI C63.26-2015 – Section 5.2.3.4

### 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.



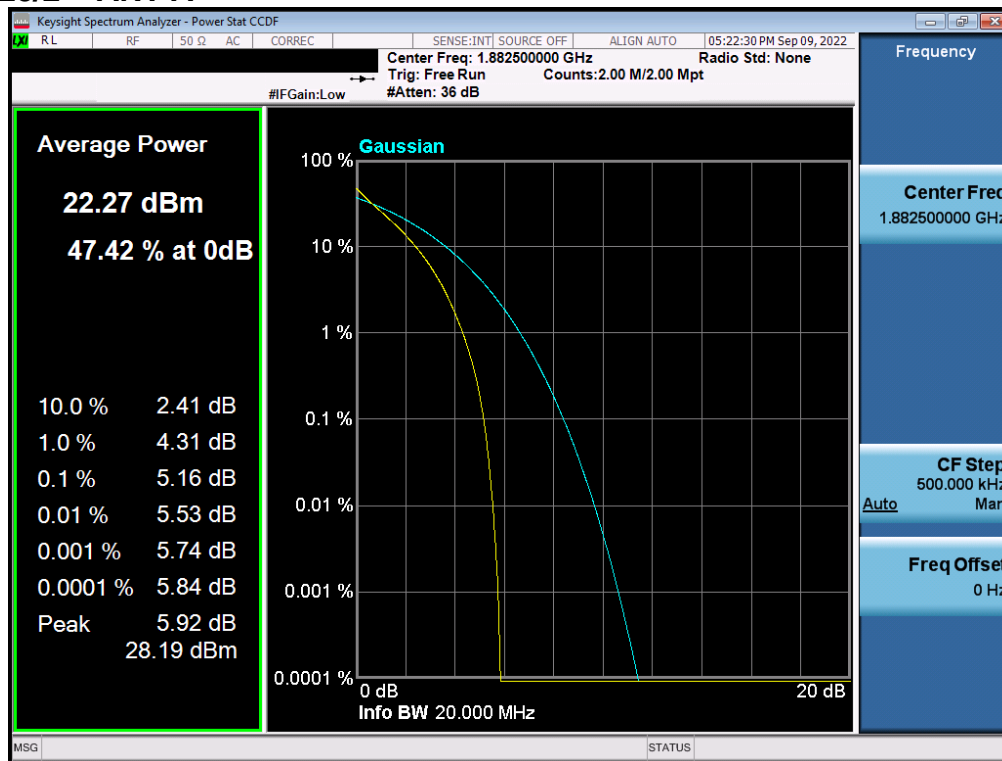
**Figure 7-5. Test Instrument & Measurement Setup**

### Test Notes

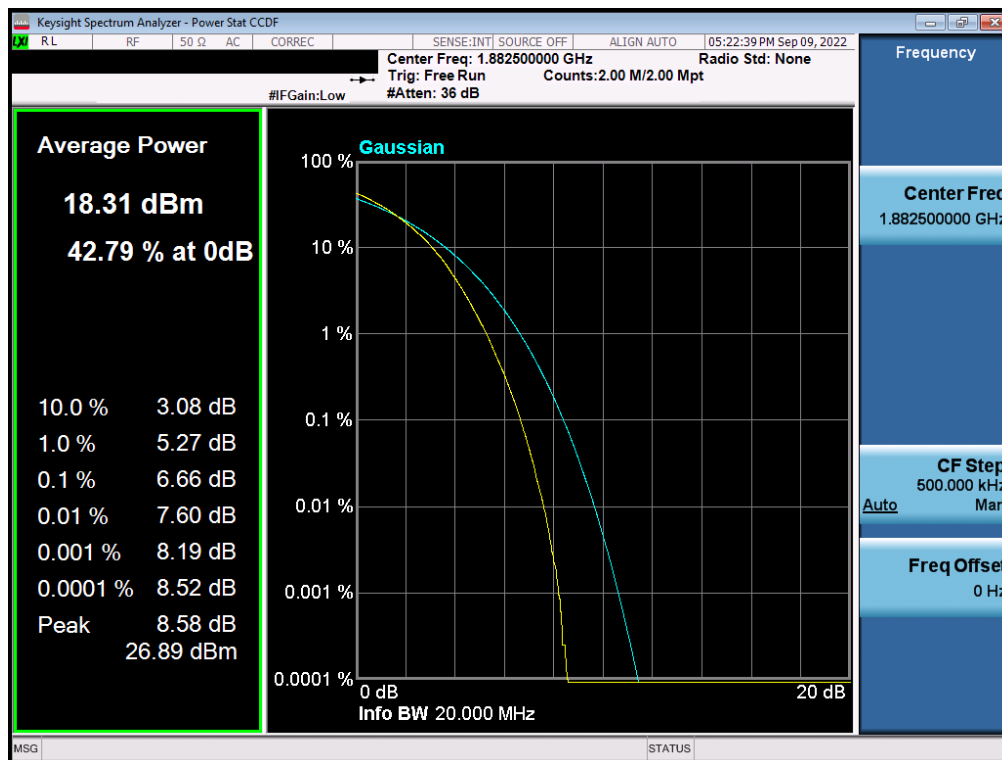
None.

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## LTE Band 25/2 – ANT A



Plot 7-274. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - ANT A)



Plot 7-275. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - ANT A)

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