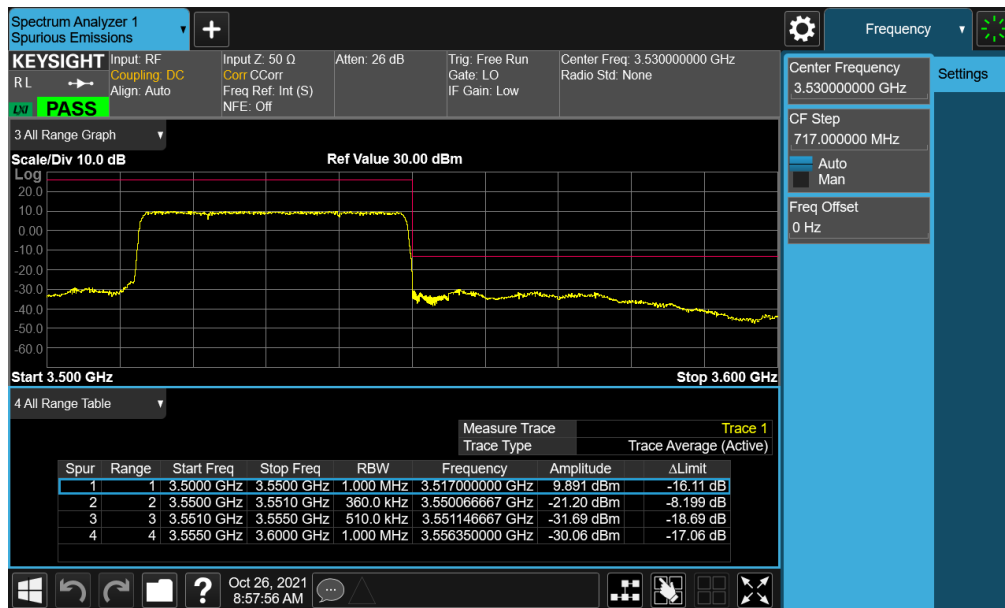
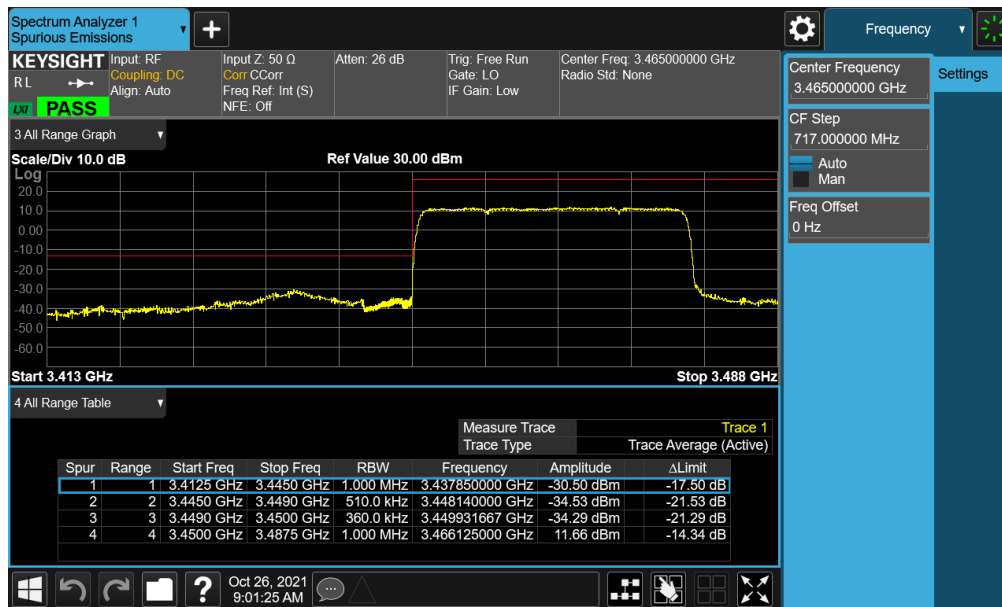


Plot 7-127. Lower ACP Plot (NR Band n77 (DoD) - 40MHz CP-OFDM-QPSK – Full RB - ANT F)

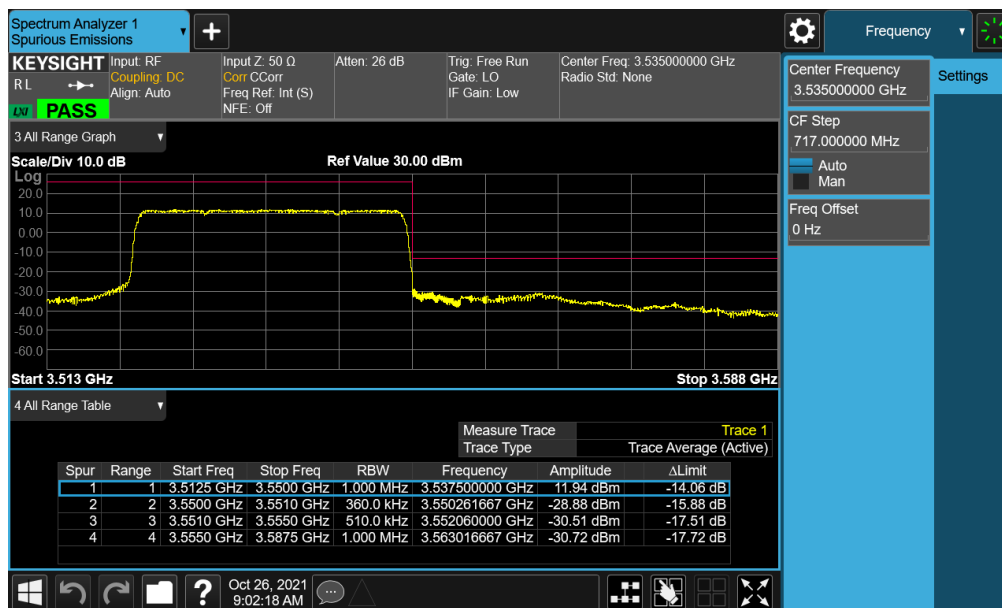


Plot 7-128. Upper ACP Plot (NR Band n77 (DoD) - 40MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 90 of 181

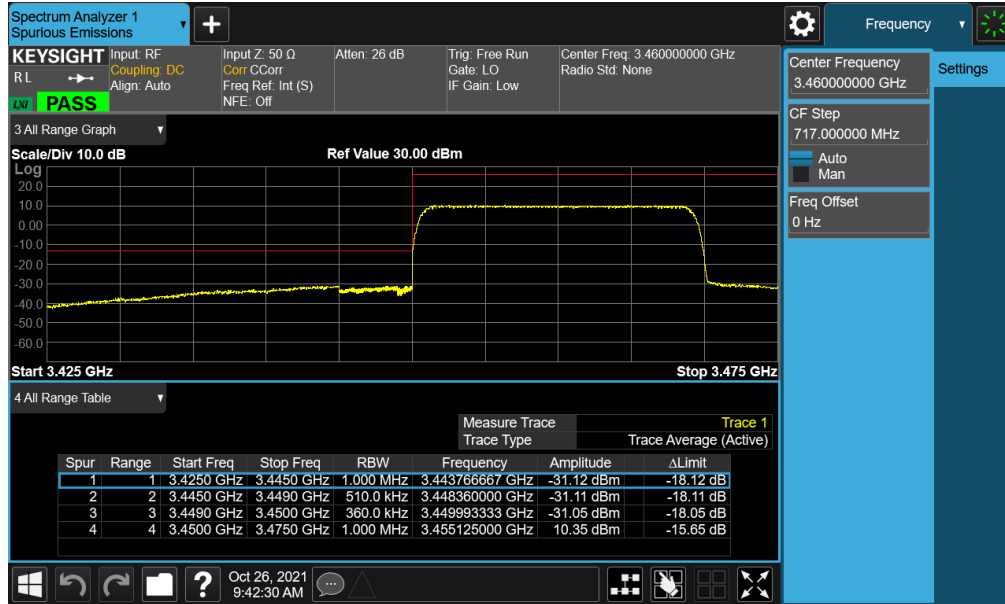


Plot 7-129. Lower ACP Plot (NR Band n77 (DoD) - 30MHz CP-OFDM-QPSK – Full RB - ANT F)

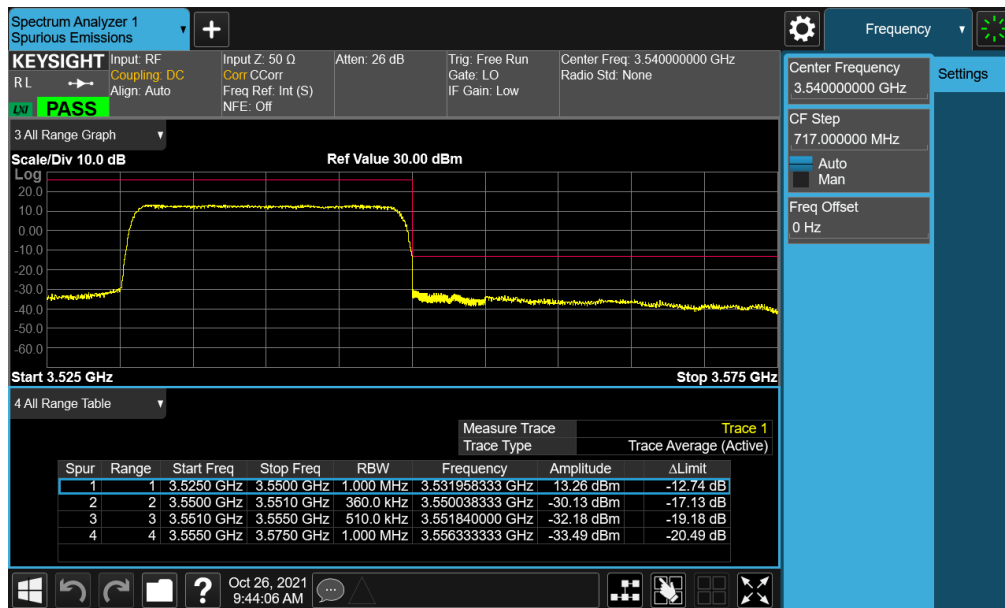


Plot 7-130. Upper ACP Plot (NR Band n77 (DoD) - 30MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 91 of 181

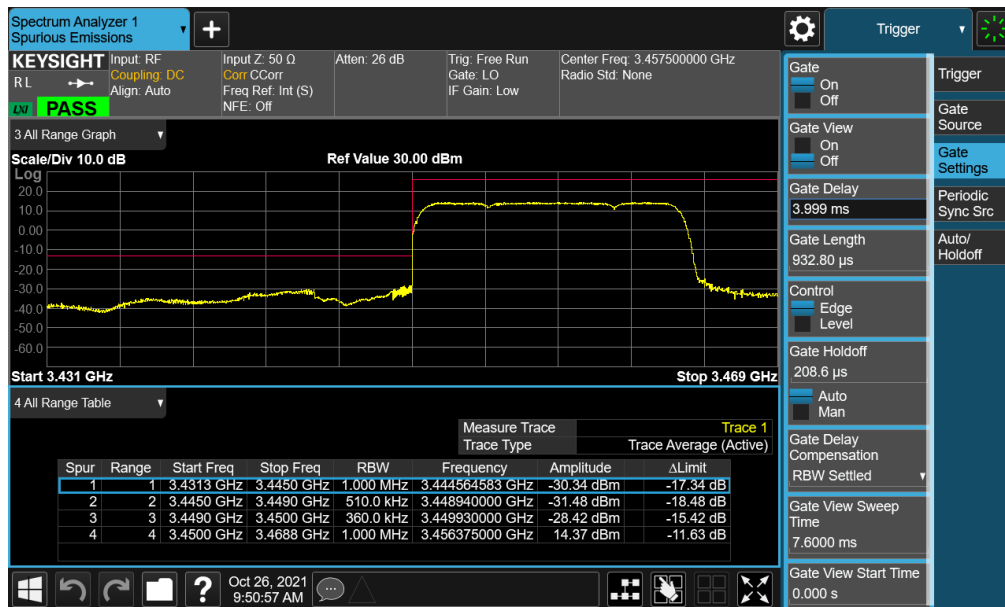


Plot 7-131. Lower ACP Plot (NR Band n77 (DoD) - 20MHz CP-OFDM-QPSK – Full RB - ANT F)

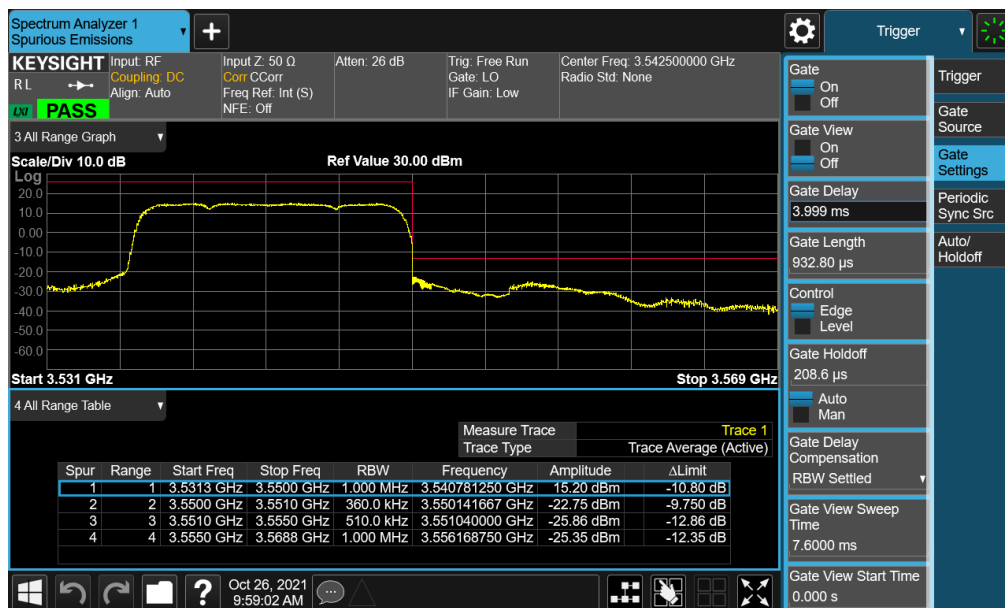


Plot 7-132. Upper ACP Plot (NR Band n77 (DoD) - 20MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 92 of 181

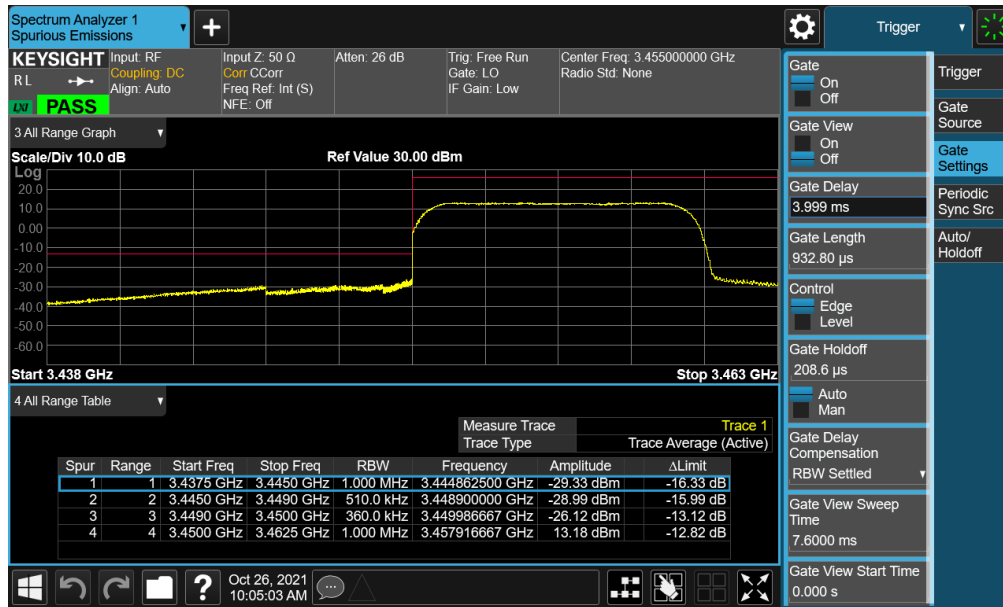


Plot 7-133. Lower ACP Plot (NR Band n77 (DoD) - 15MHz CP-OFDM-QPSK – Full RB - ANT F)

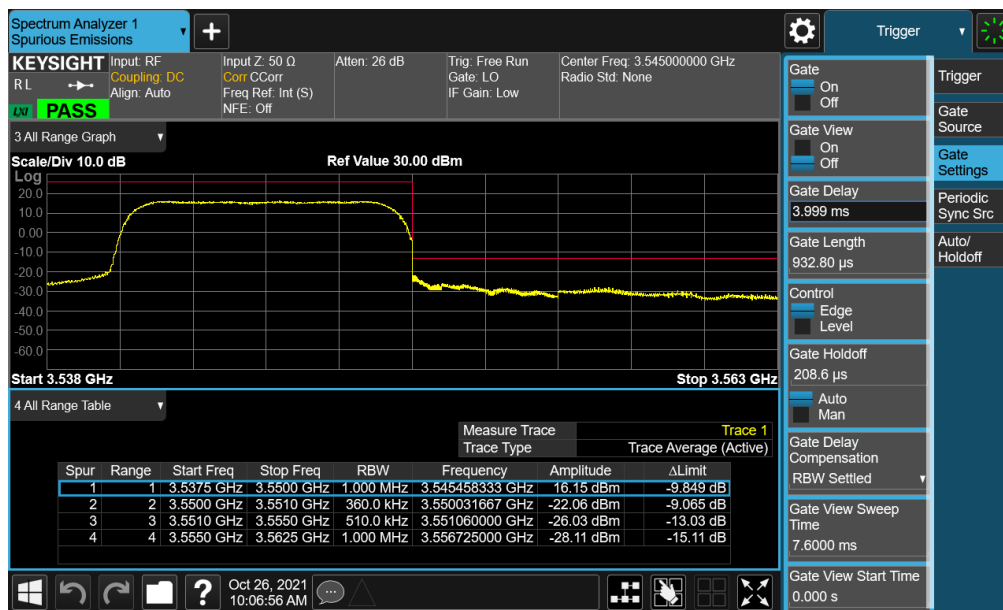


Plot 7-134. Upper ACP Plot (NR Band n77 (DoD) - 15MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 93 of 181



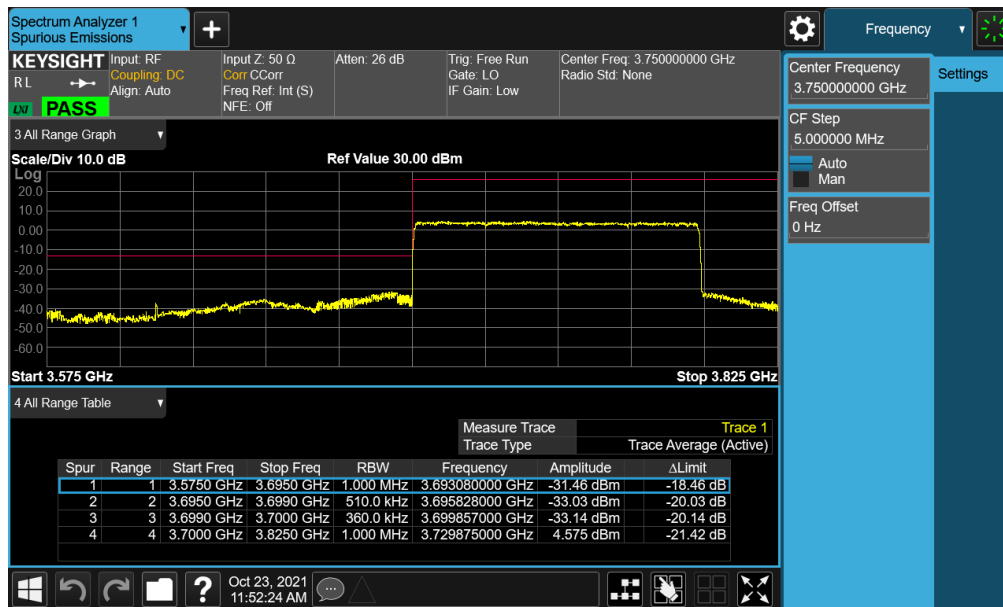
Plot 7-135. Lower ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK – Full RB - ANT F)



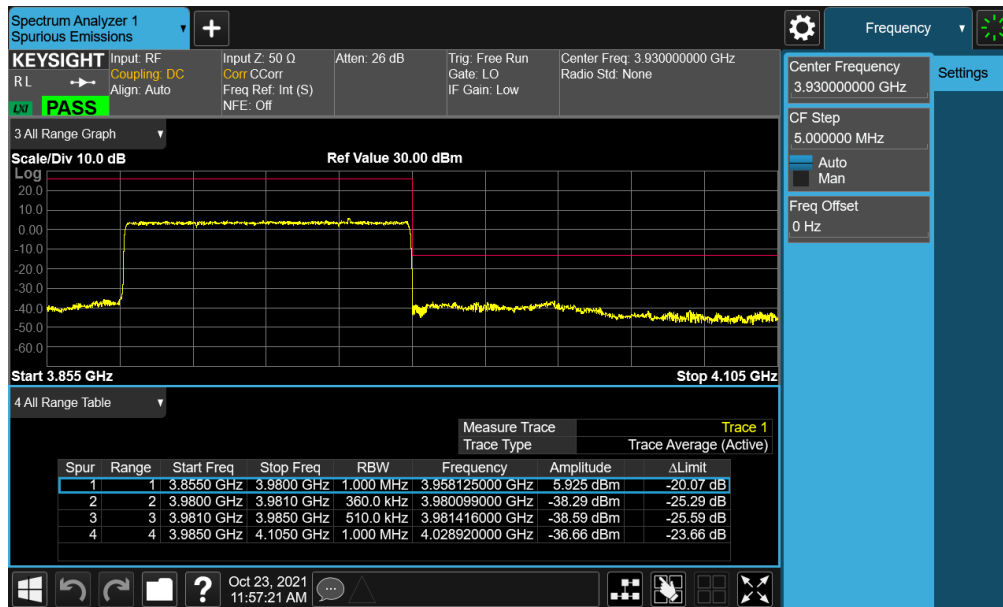
Plot 7-136. Upper ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 94 of 181

## NR Band n77 (PC2) – C-Band – SRS-1 – ANT F

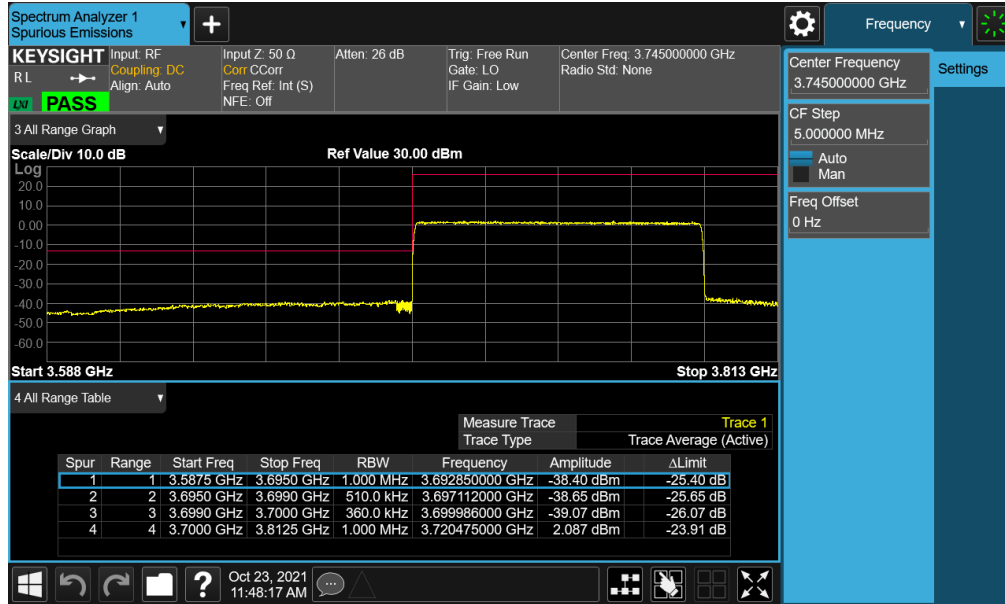


Plot 7-137. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT F)

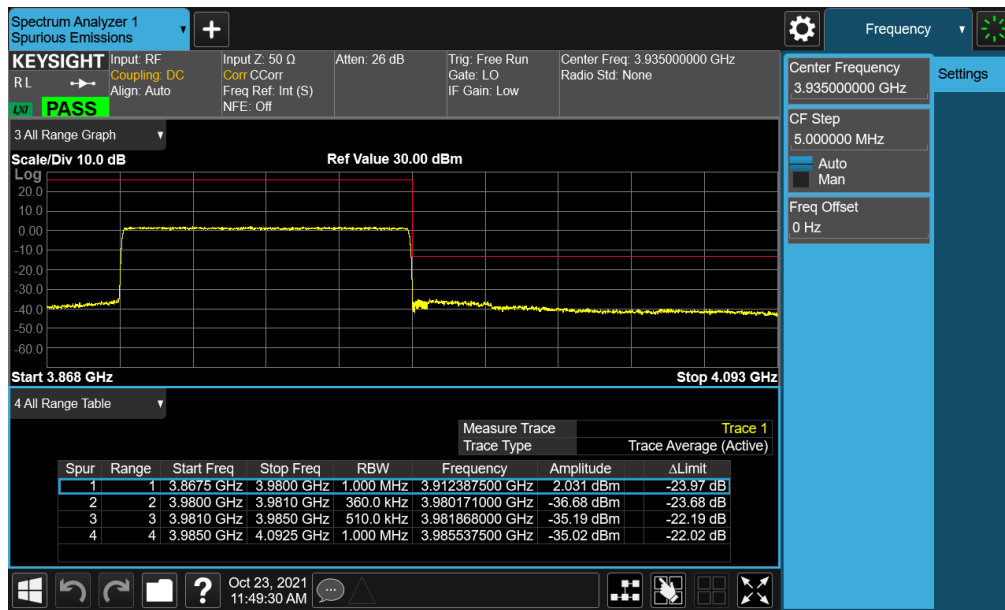


Plot 7-138. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 95 of 181

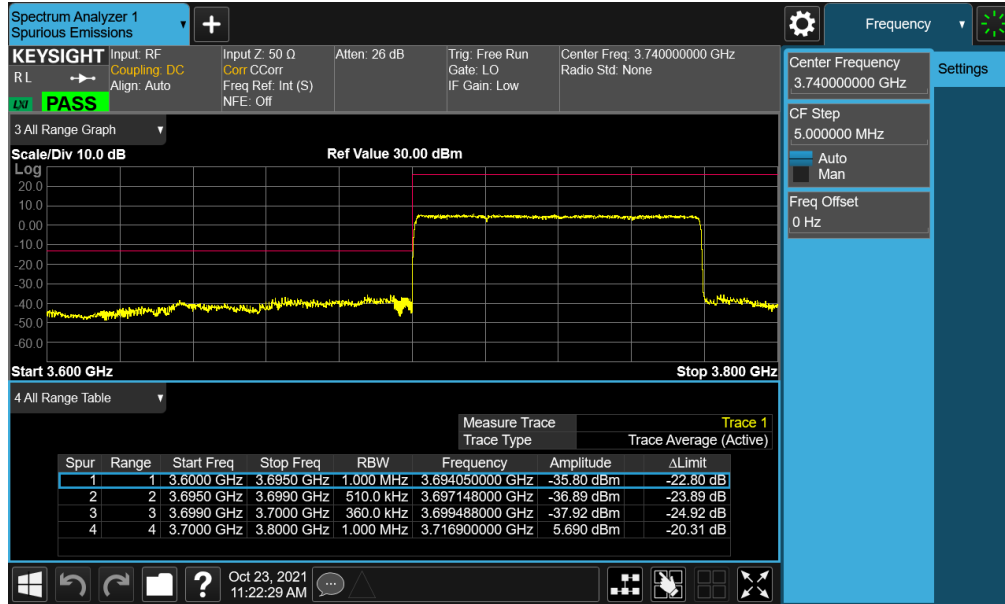


Plot 7-139. Lower ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK – Full RB - ANT F)

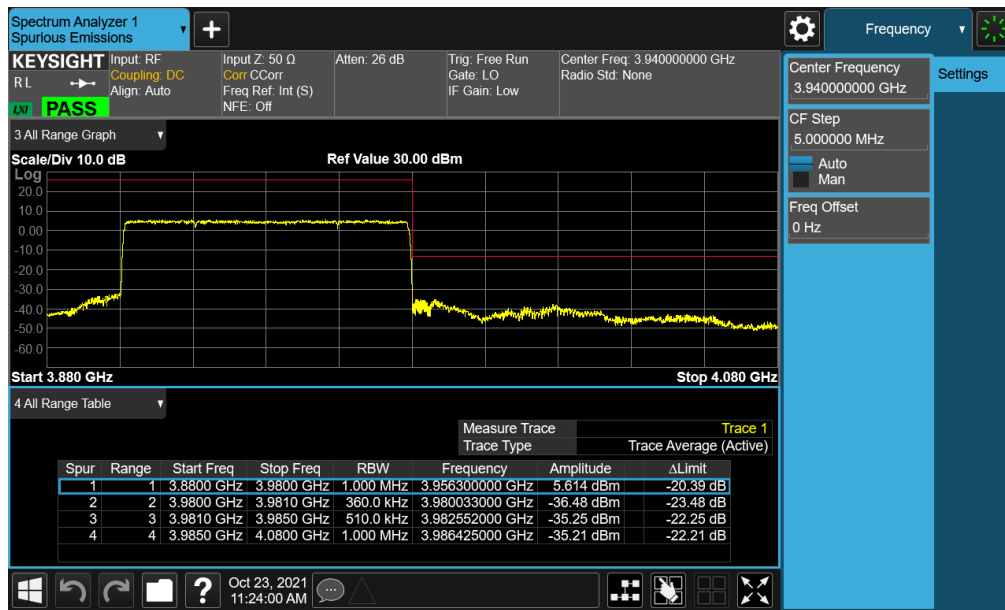


Plot 7-140. Upper ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 96 of 181

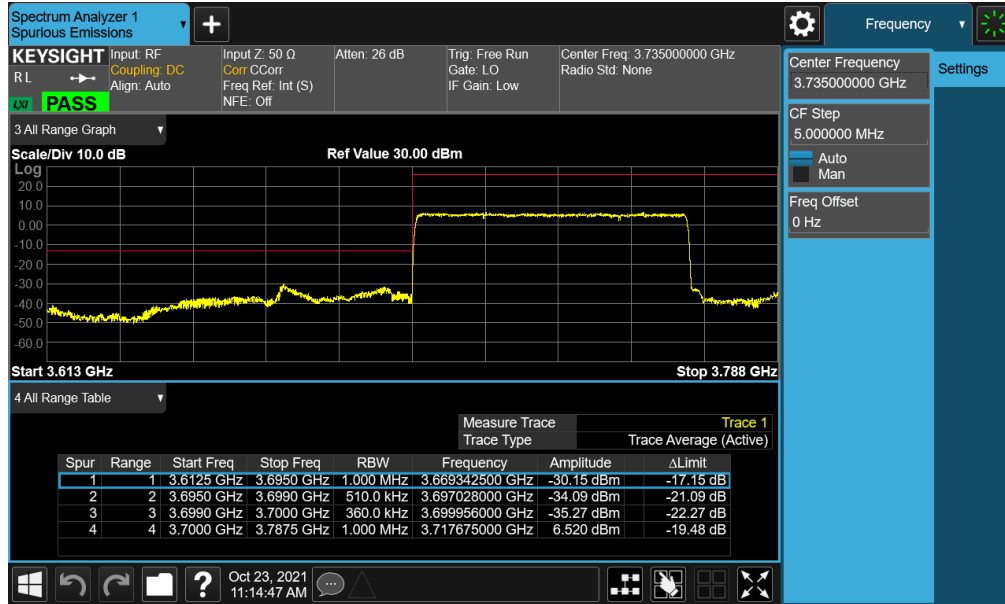


Plot 7-141. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK – Full RB - ANT F)

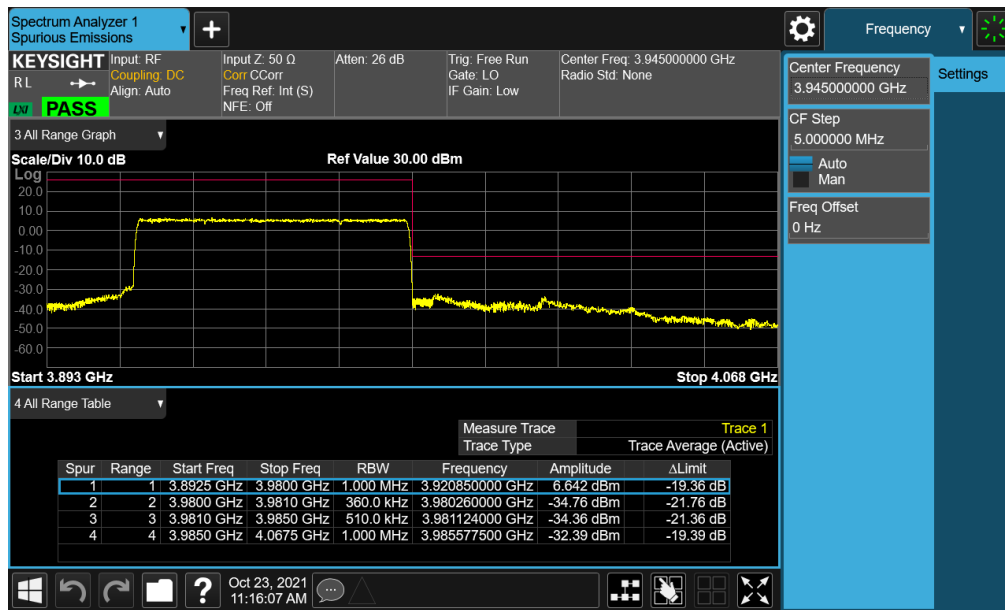


Plot 7-142. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 97 of 181

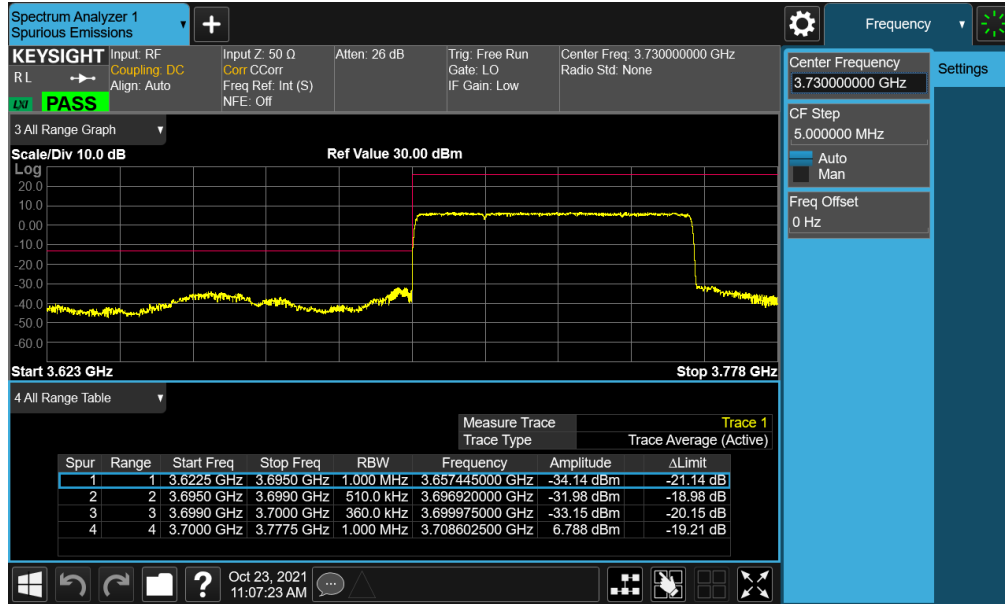


Plot 7-143. Lower ACP Plot (NR Band n77 - 70MHz CP-OFDM-QPSK – Full RB - ANT F)

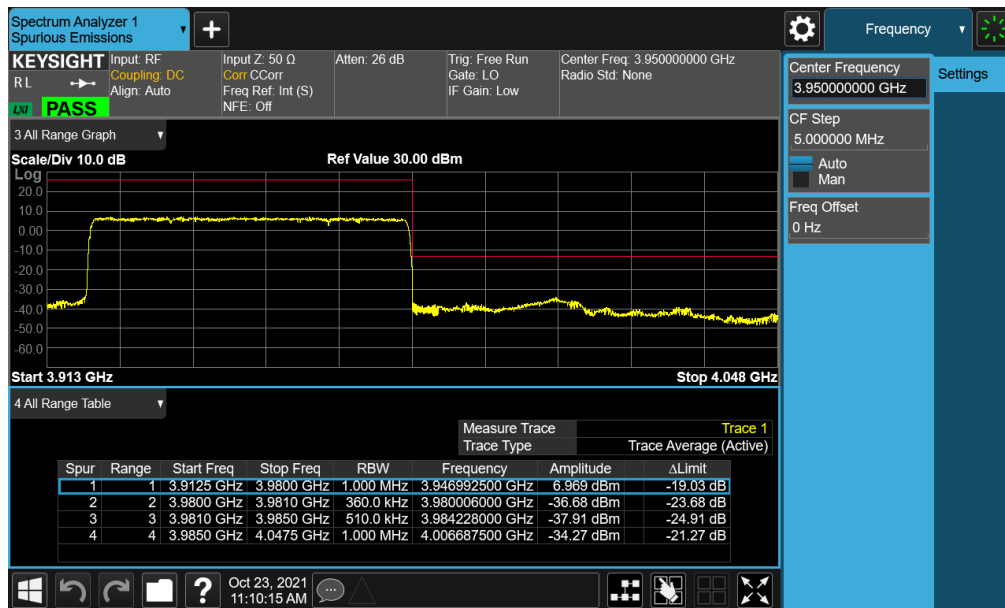


Plot 7-144. Upper ACP Plot (NR Band n77 - 70MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 98 of 181

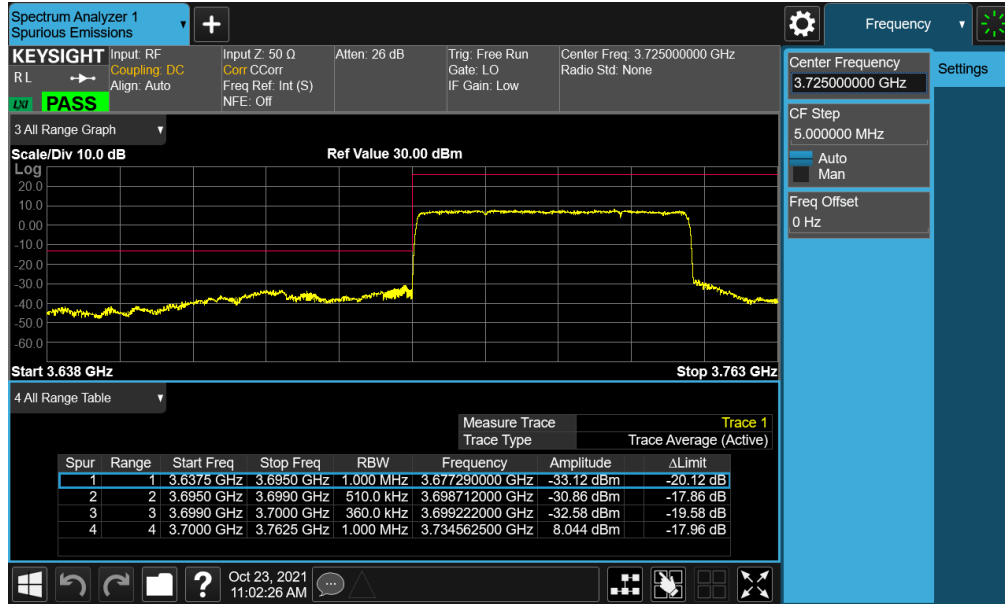


Plot 7-145. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK – Full RB - ANT F)

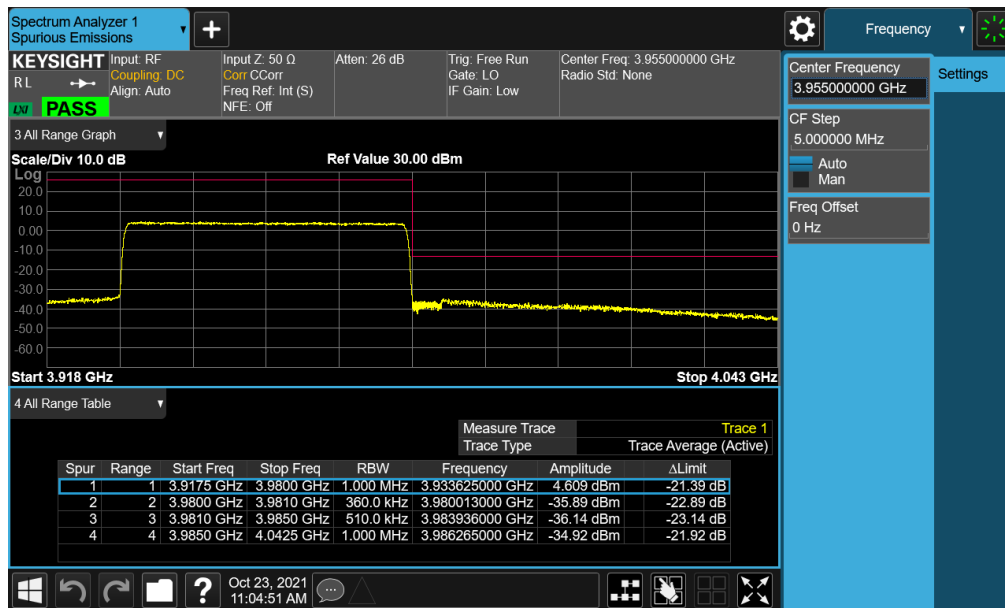


Plot 7-146. Upper ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 99 of 181

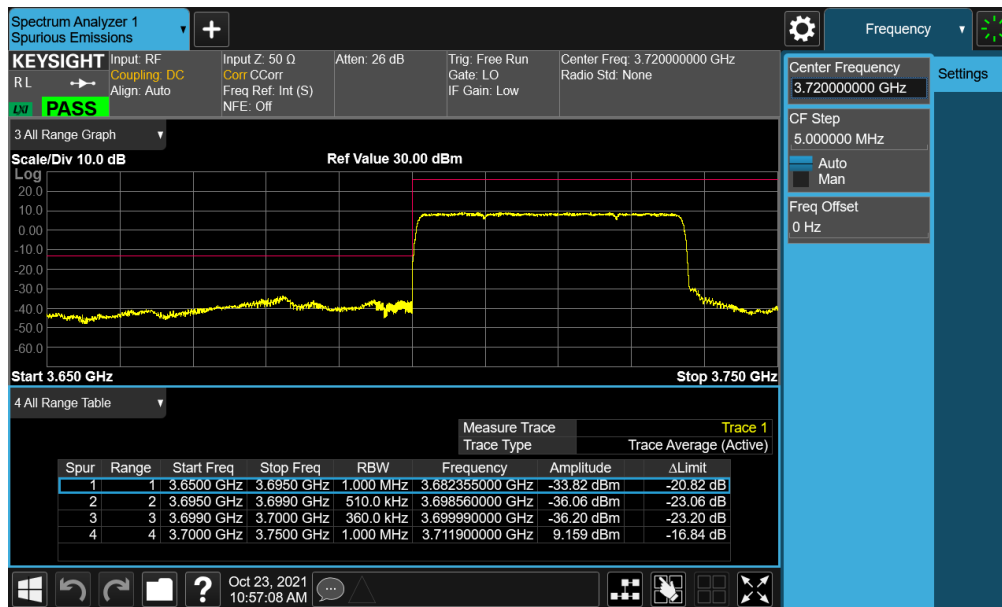


Plot 7-147. Lower ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK – Full RB - ANT F)

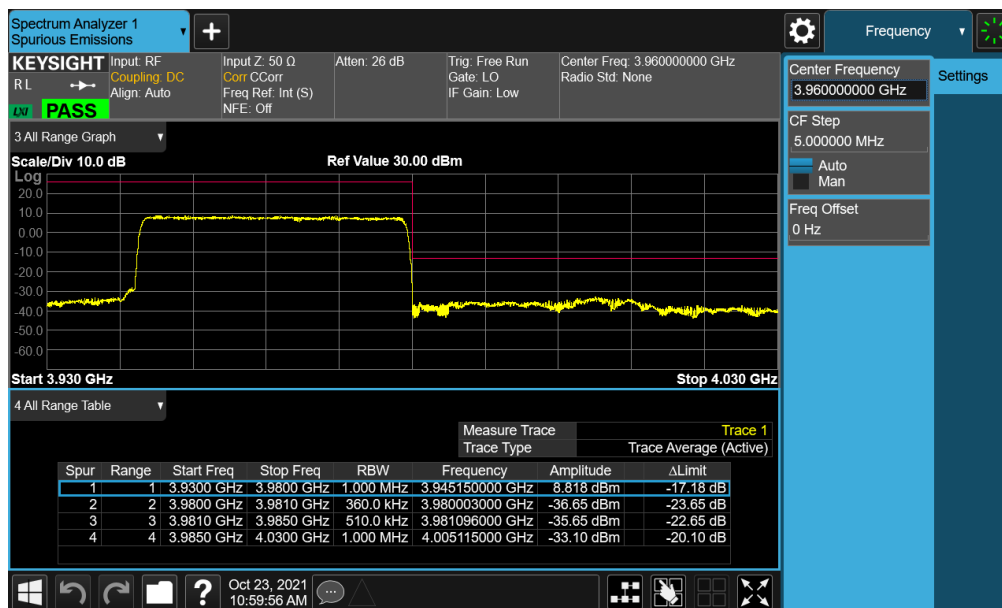


Plot 7-148. Upper ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 100 of 181

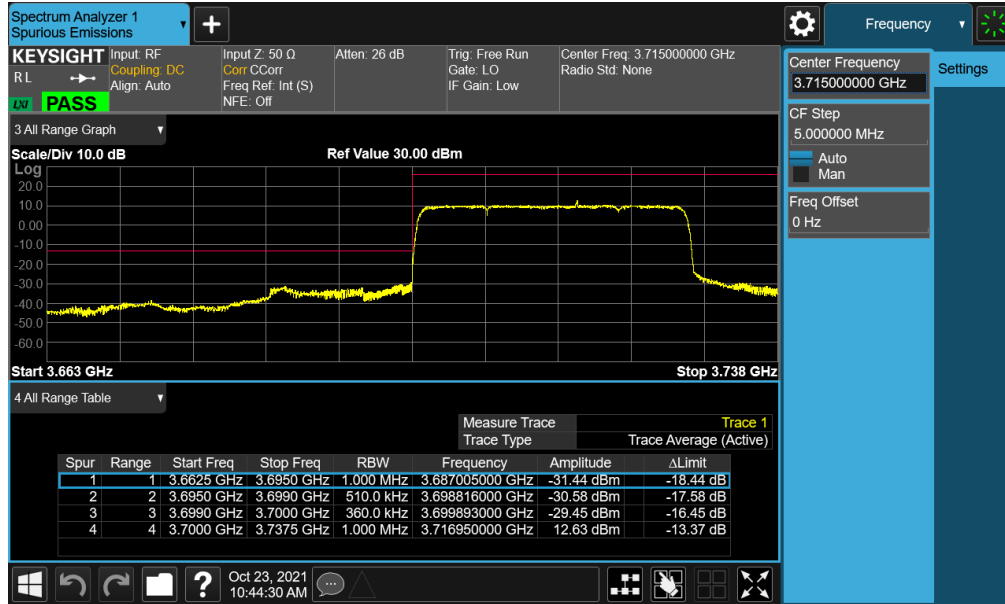


Plot 7-149. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK – Full RB - ANT F)

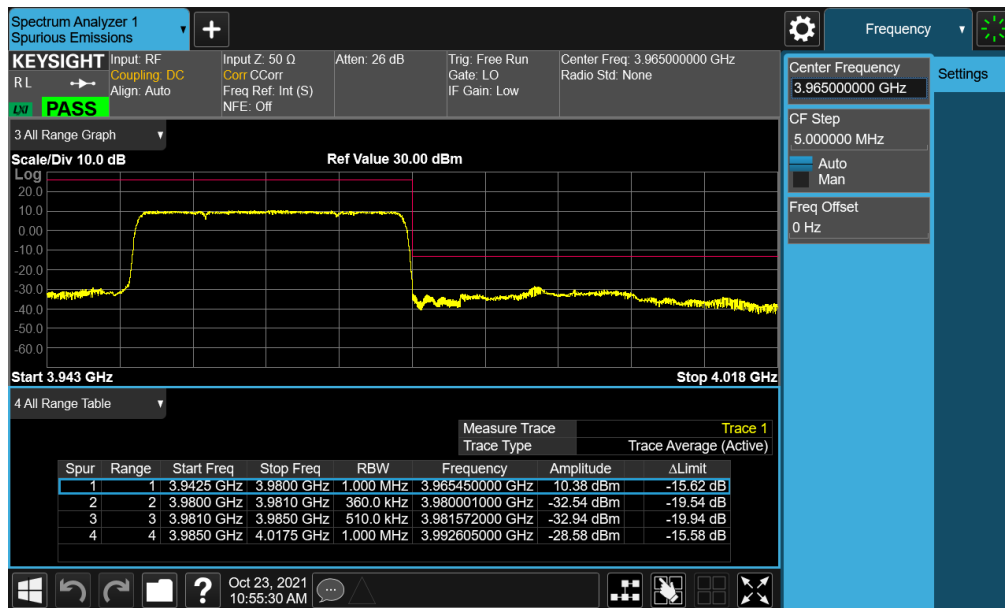


Plot 7-150. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 101 of 181

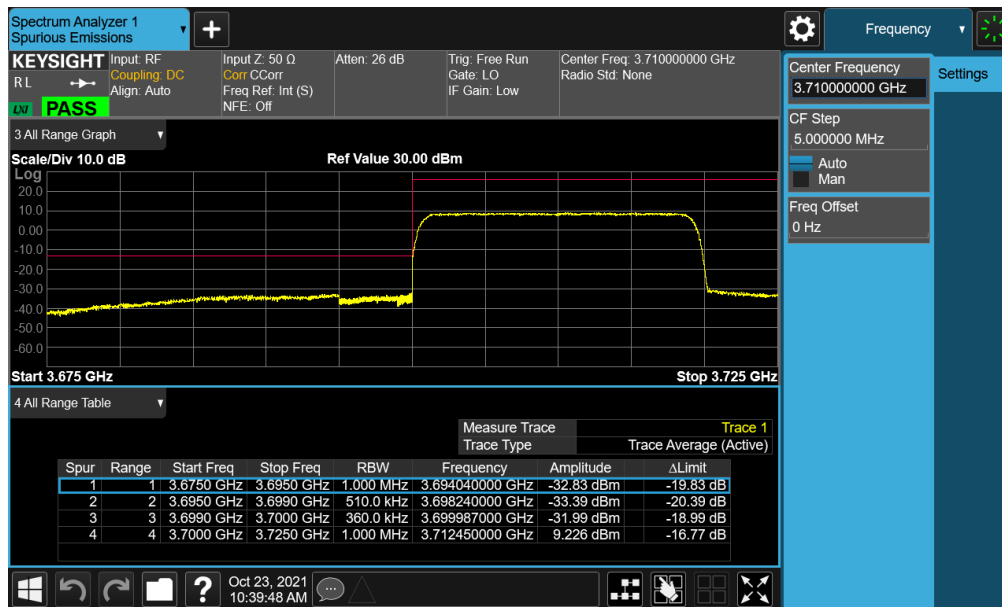


Plot 7-151. Lower ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK – Full RB - ANT F)

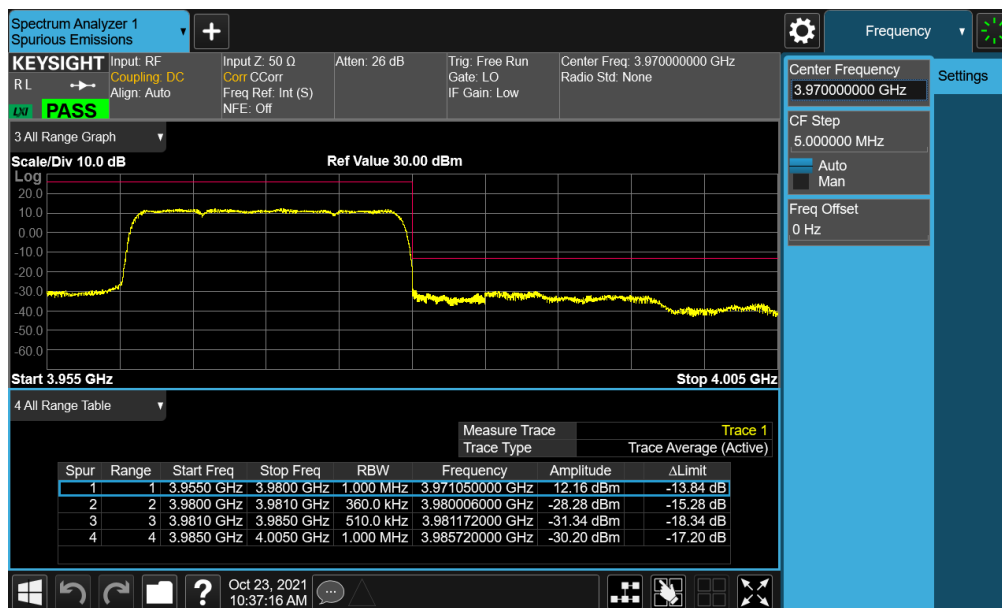


Plot 7-152. Upper ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 102 of 181

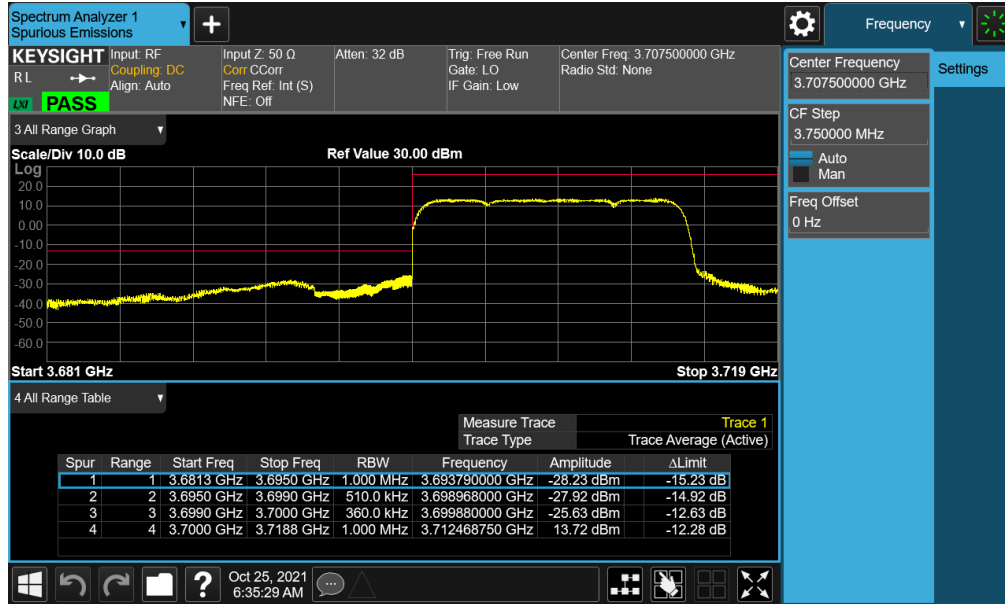


Plot 7-153. Lower ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK – Full RB - ANT F)



Plot 7-154. Upper ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 103 of 181

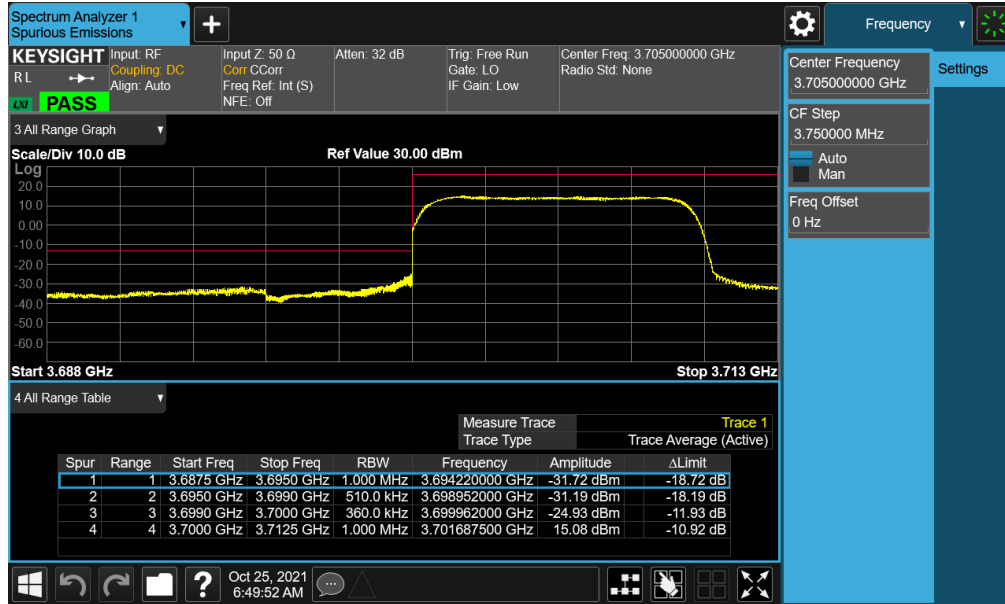


Plot 7-155. Lower ACP Plot (NR Band n77 - 15MHz CP-OFDM-QPSK – Full RB - ANT F)

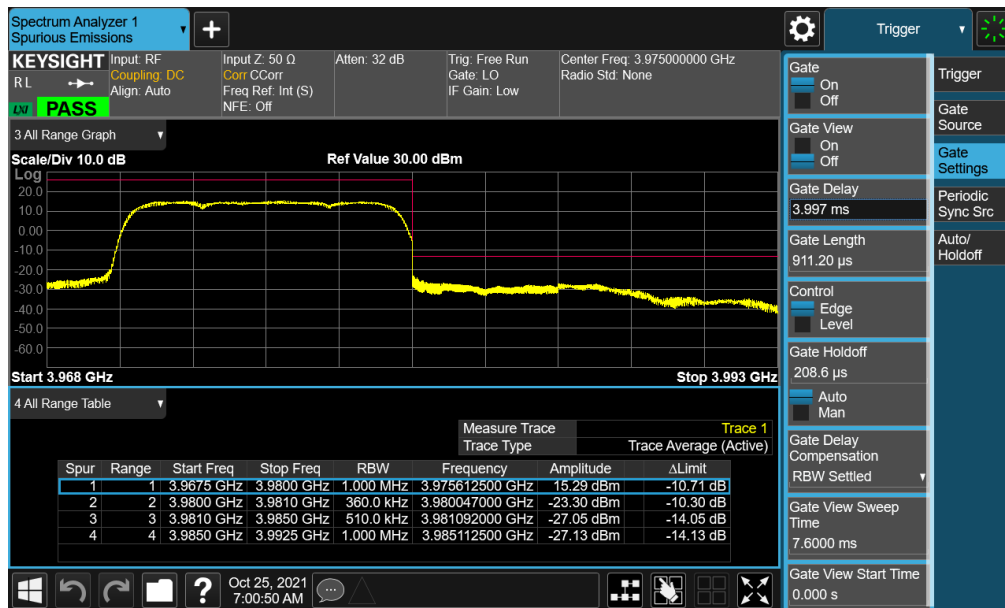


Plot 7-156. Upper ACP Plot (NR Band n77 - 15MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 104 of 181



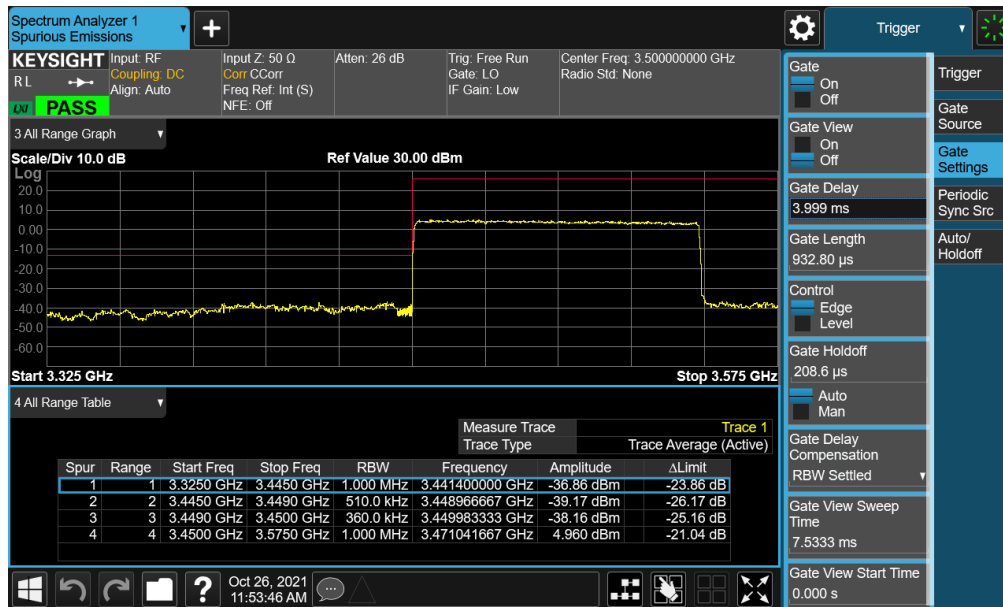
Plot 7-157. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB - ANT F)



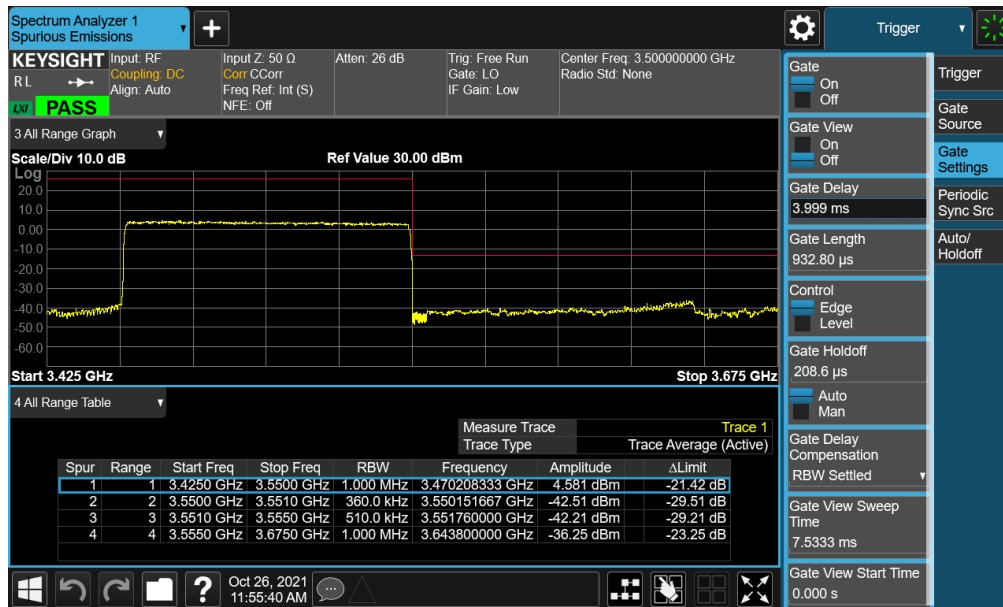
Plot 7-158. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 105 of 181

## NR Band n77 (PC2) – DoD-Band – SRS-2 – ANT C



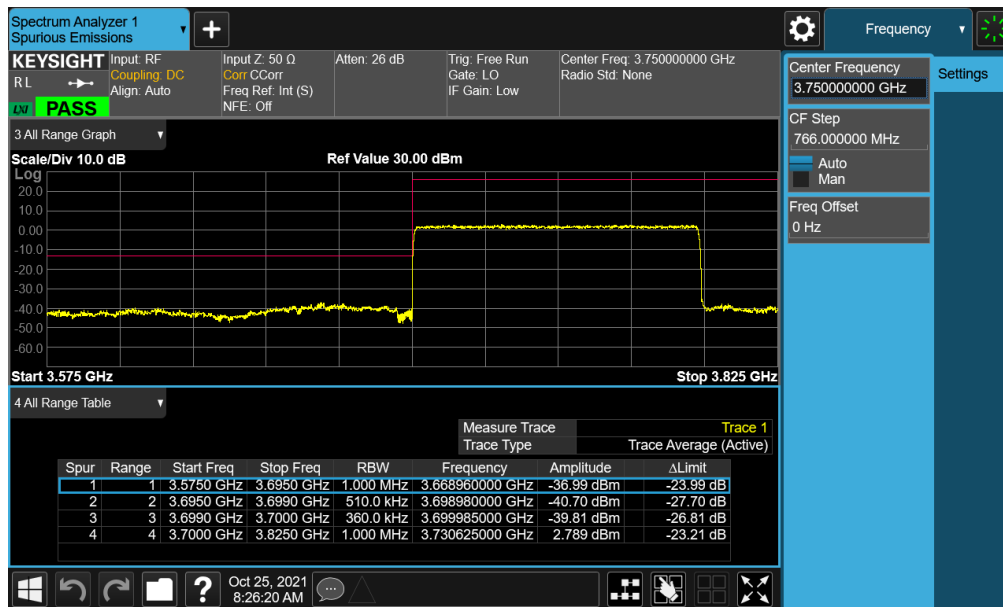
Plot 7-159. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT C)



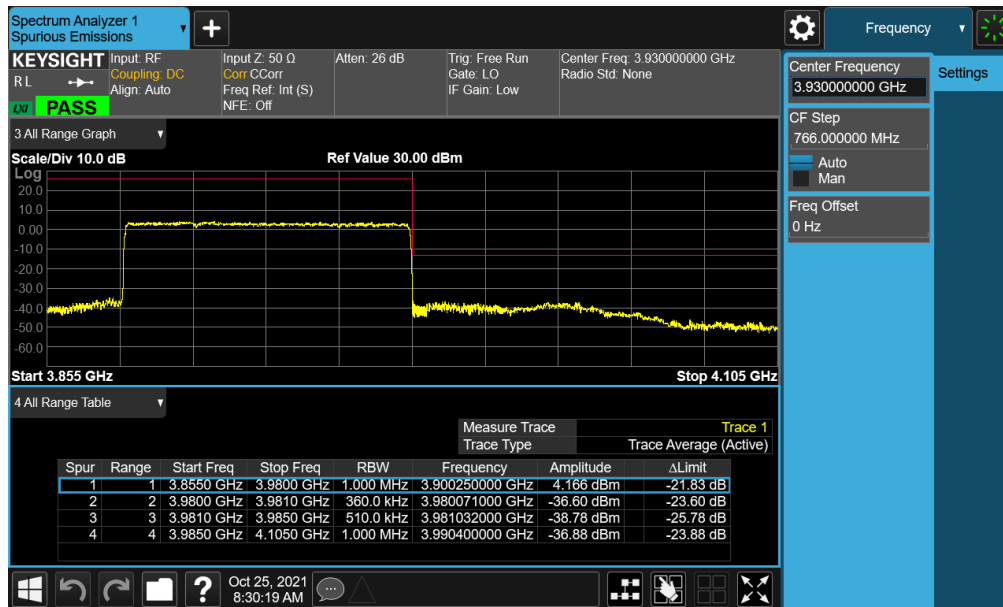
Plot 7-160. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT C)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 106 of 181

## NR Band n77 (PC2) – C-Band – SRS-2 – ANT C



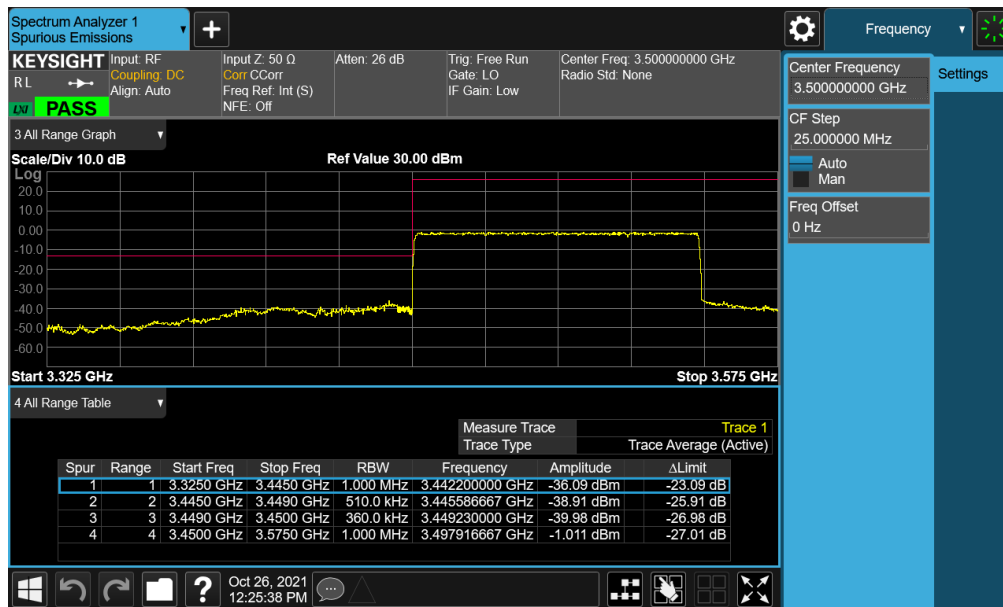
Plot 7-161. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT C)



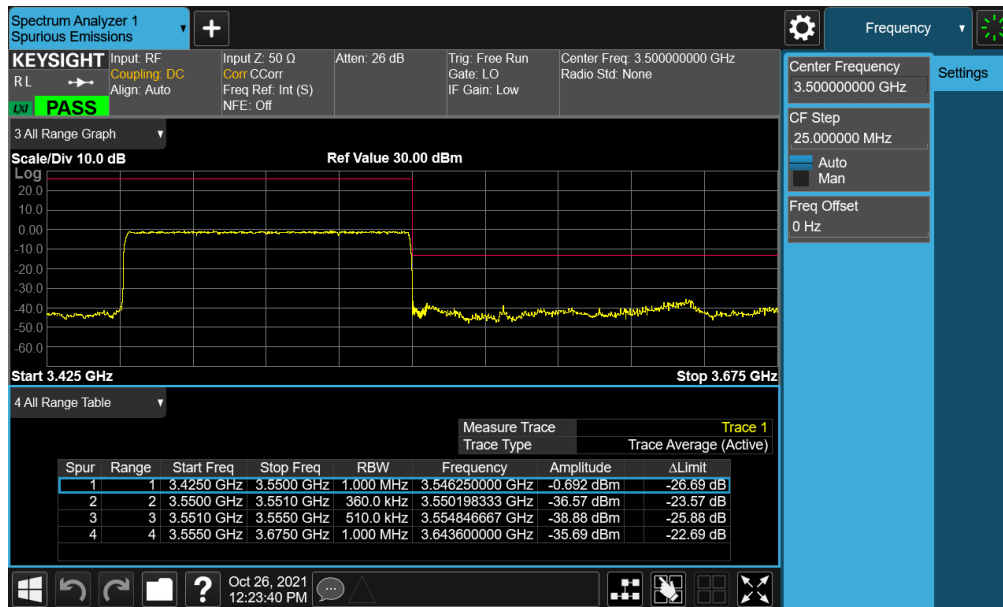
Plot 7-162. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT C)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 107 of 181

## NR Band n77 (PC2) – DoD-Band – SRS-3 – ANT K



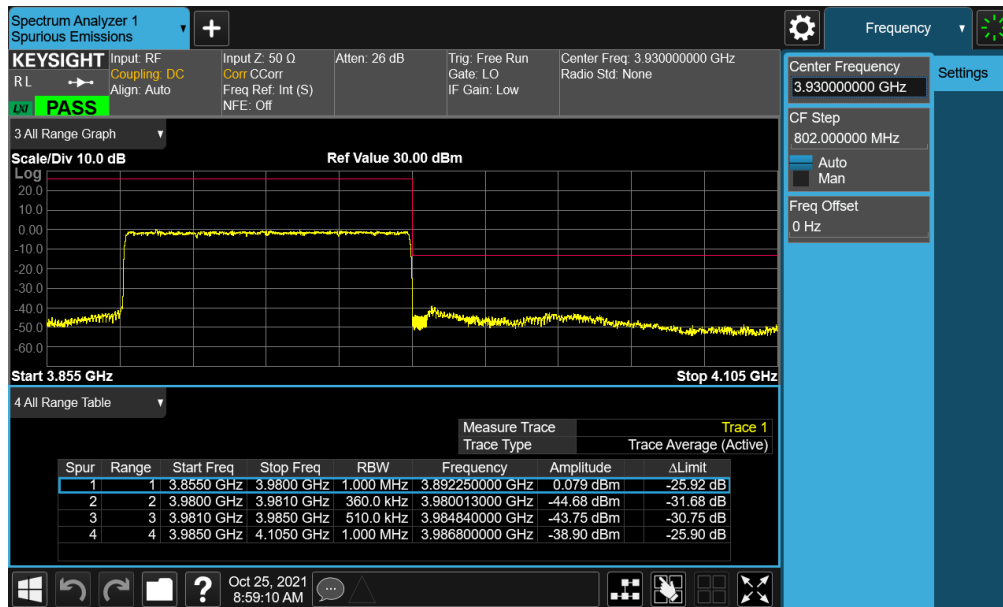
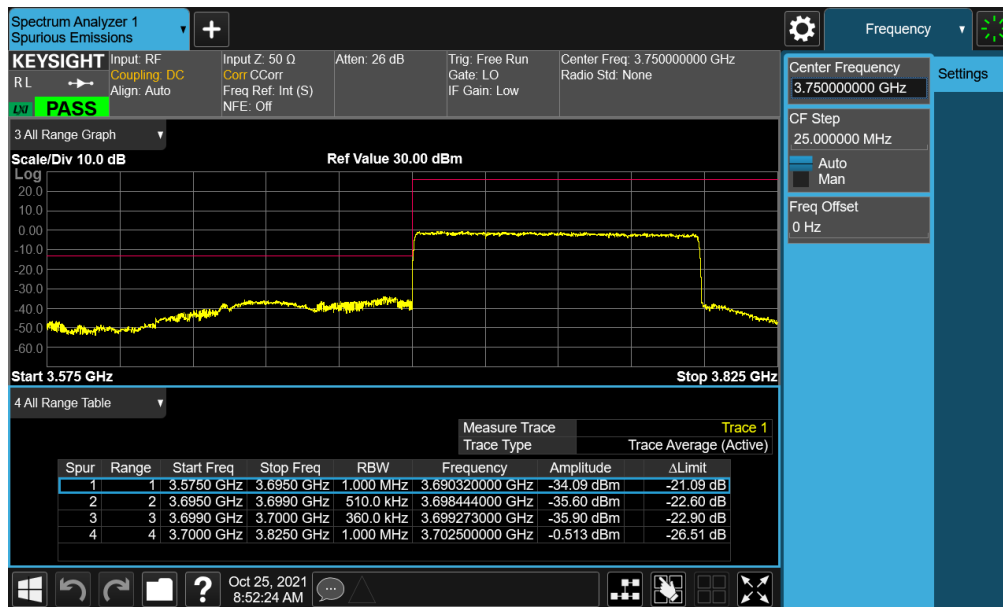
Plot 7-163. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT K)



Plot 7-164. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT K)

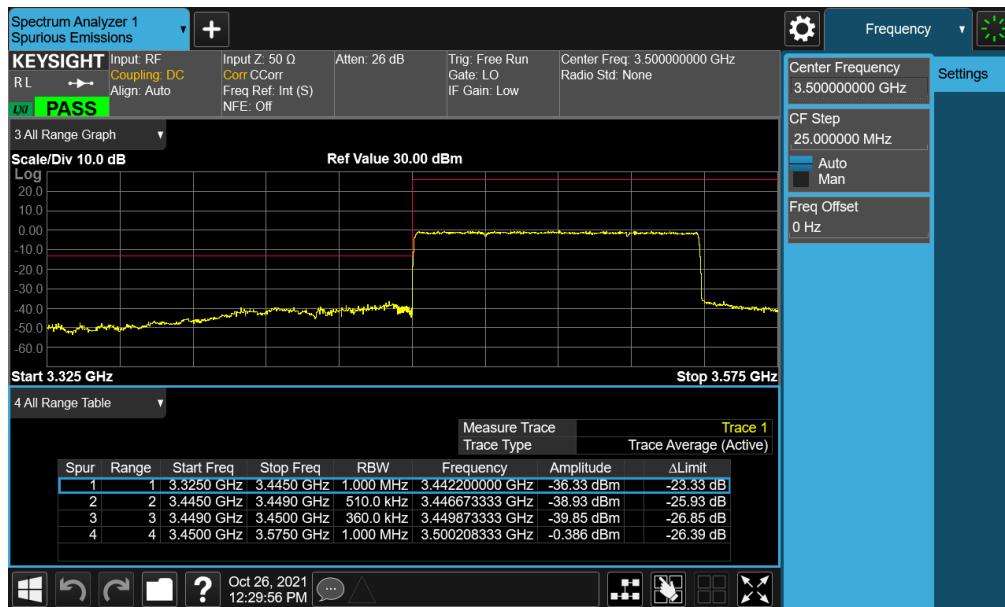
FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 108 of 181

## NR Band n77 (PC2) – C-Band – SRS-3 – ANT K

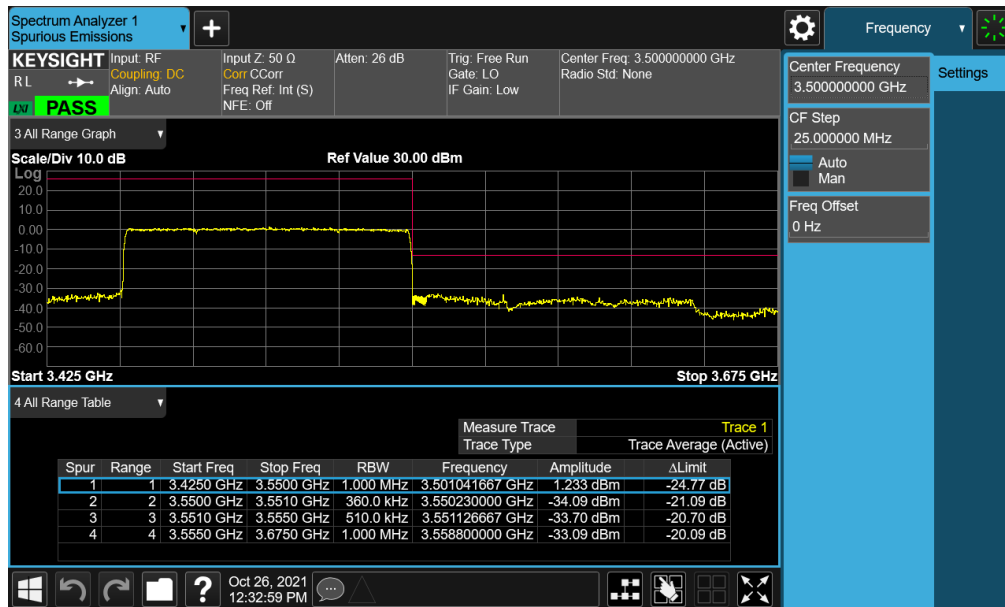


FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 109 of 181

## NR Band n77 (PC2) – DoD-Band – SRS-4 – ANT D



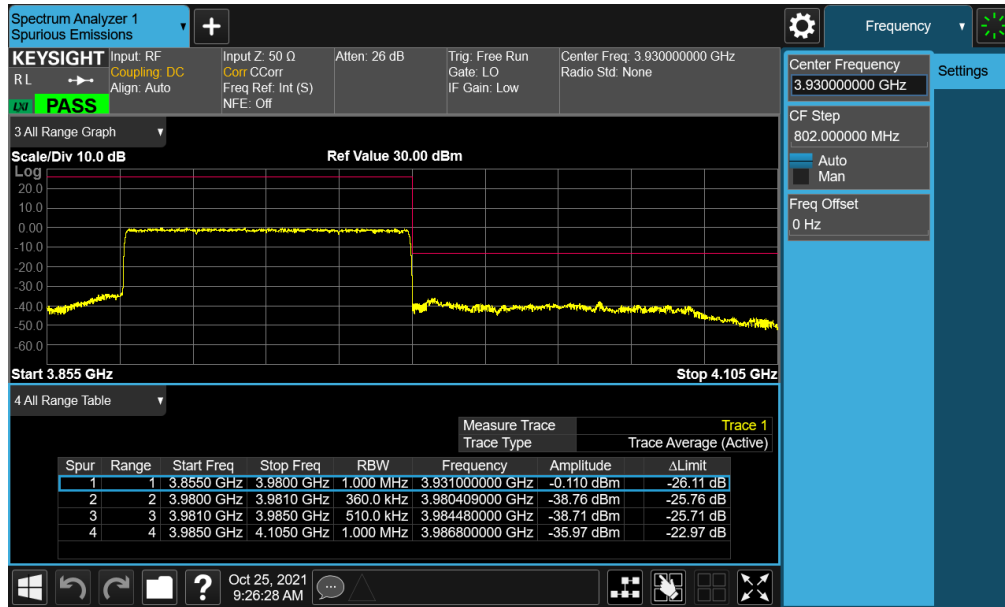
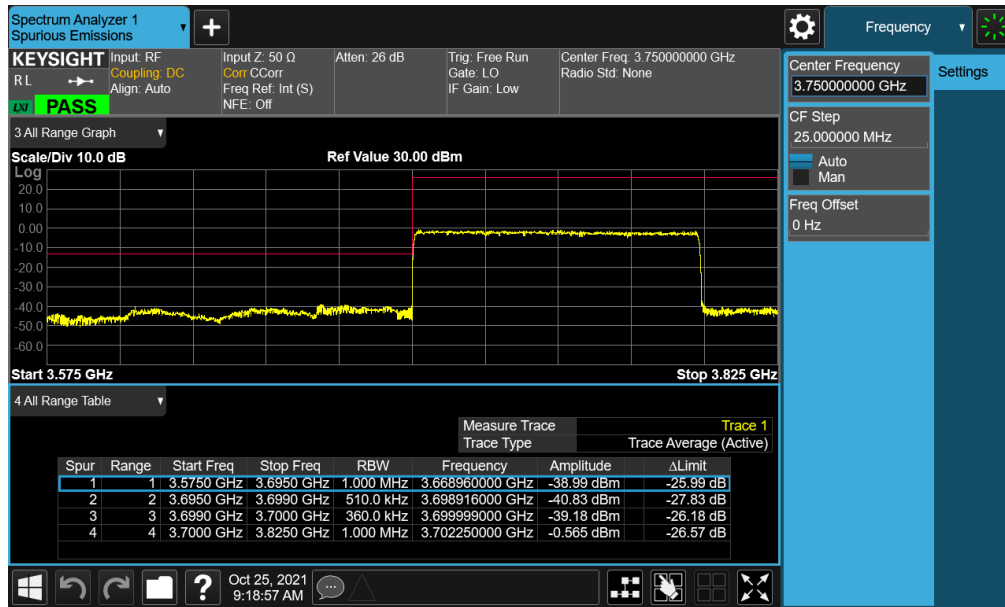
Plot 7-167. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT D)



Plot 7-168. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT D)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 110 of 181

## NR Band n77 (PC2) – C-Band – SRS-4 – ANT D



FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 111 of 181

## 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.

### 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.



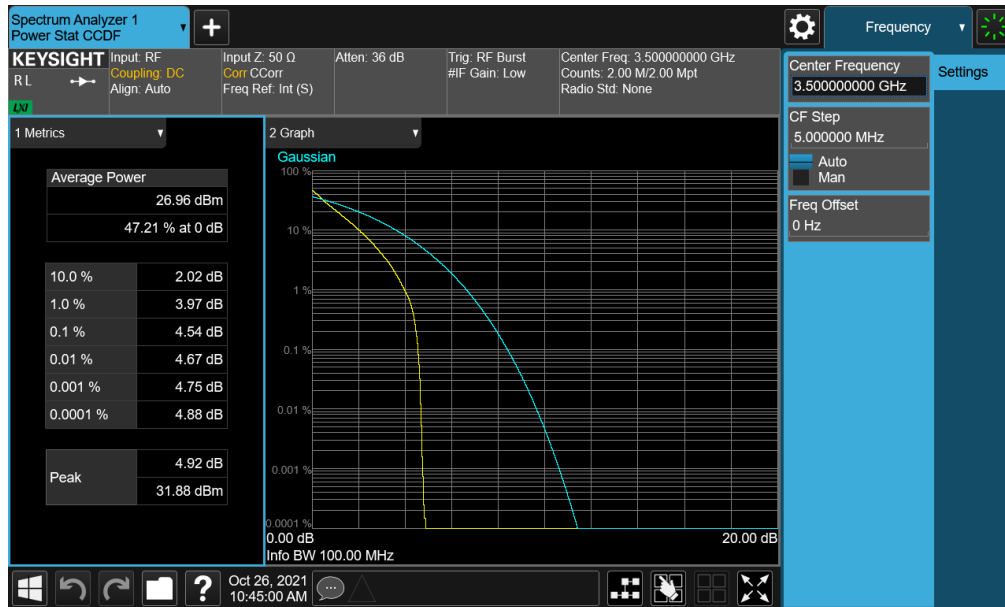
**Figure 7-5. Test Instrument & Measurement Setup**

### Test Note

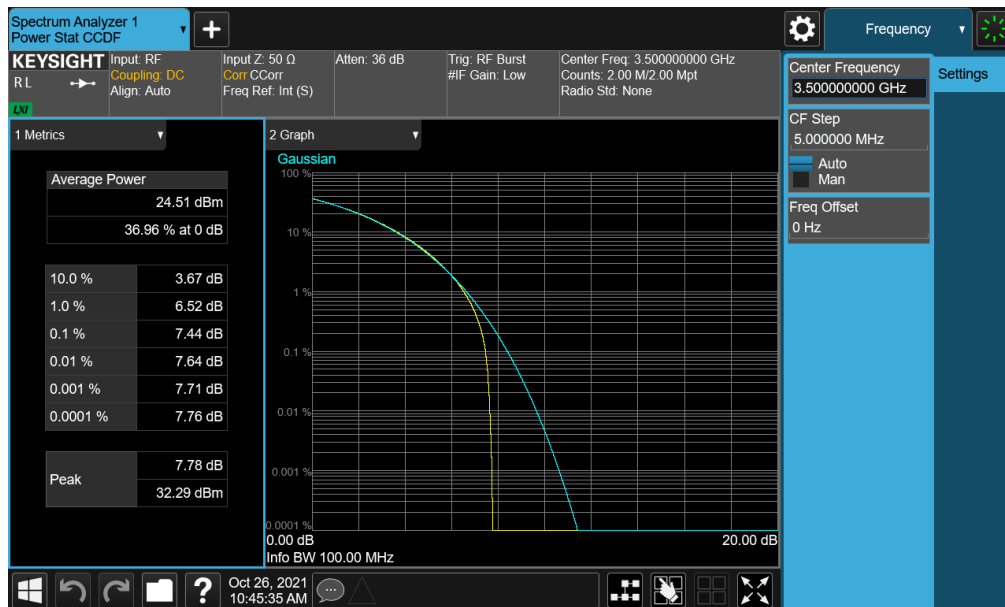
The Peak-Average Ratio was only measured on the antenna with the highest power for each band (SRS-1 / ANT F).

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109090103-29.A3L	<b>Test Dates:</b> 9/10/2021 - 11/10/2021	<b>EUT Type:</b> Portable Handset	Page 112 of 181

## NR Band n77 (DoD) – SRS-1 – Ant F



Plot 7-171. PAR Plot (NR Band n77 (DoD) - 100MHz DFT-s-OFDM BPSK - Full RB - ANT F)

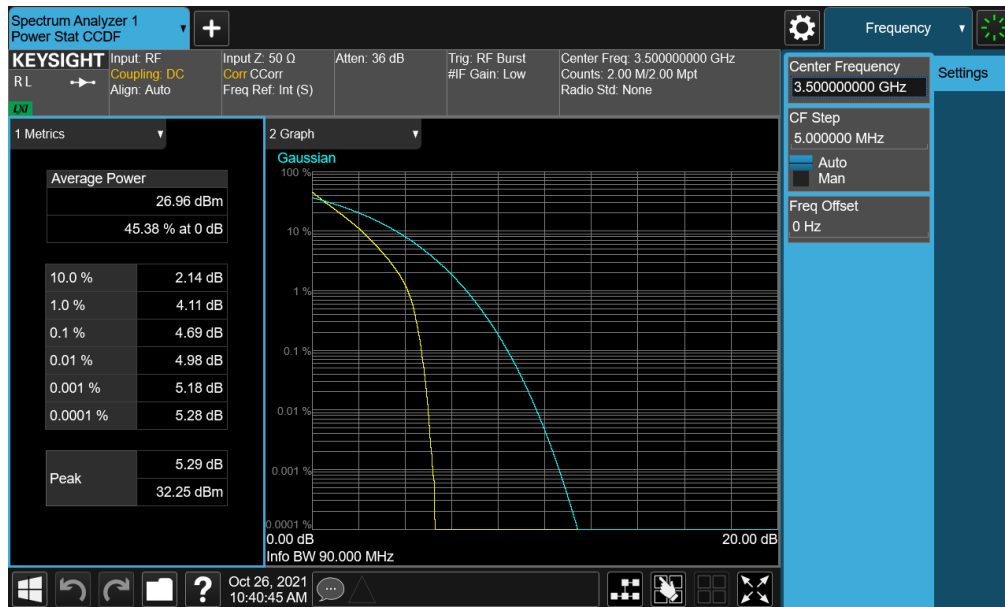


Plot 7-172. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 113 of 181

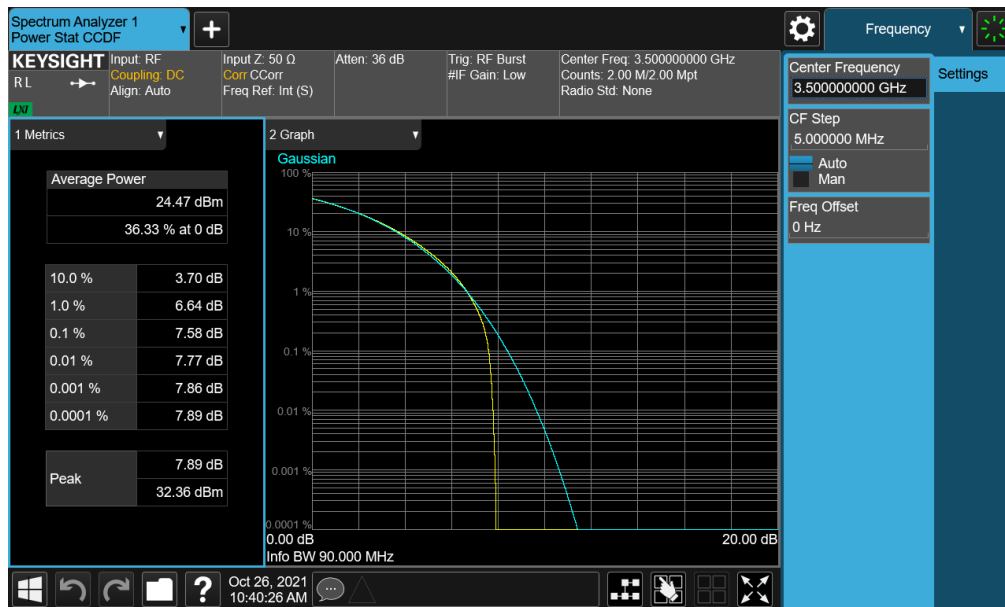


Plot 7-173. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM 256-QAM - Full RB - ANT F)



Plot 7-174. PAR Plot (NR Band n77 (DoD) - 90MHz DFT-s-OFDM BPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 114 of 181

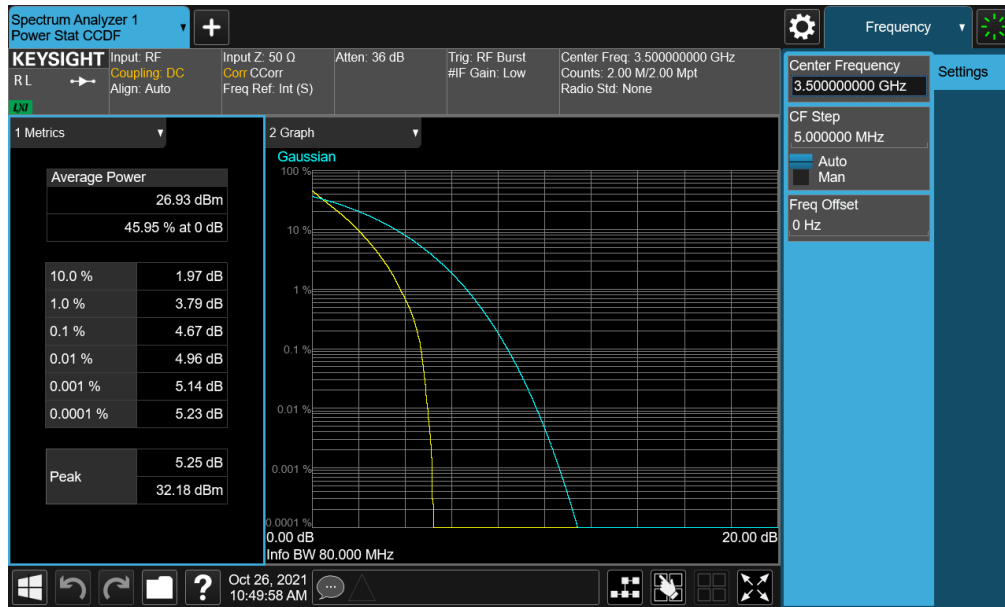


Plot 7-175. PAR Plot (NR Band n77 (DoD) - 90MHz CP-OFDM QPSK - Full RB - ANT F)

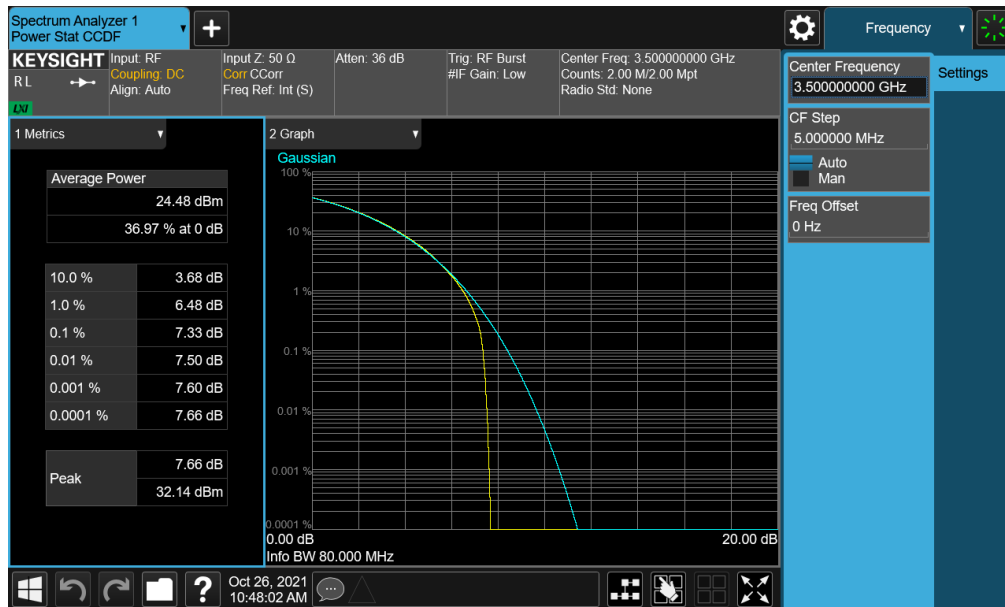


Plot 7-176. PAR Plot (NR Band n77 (DoD) - 90MHz CP-OFDM 256-QAM - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 115 of 181



Plot 7-177. PAR Plot (NR Band n77 (DoD) - 80MHz DFT-s-OFDM BPSK - Full RB - ANT F)

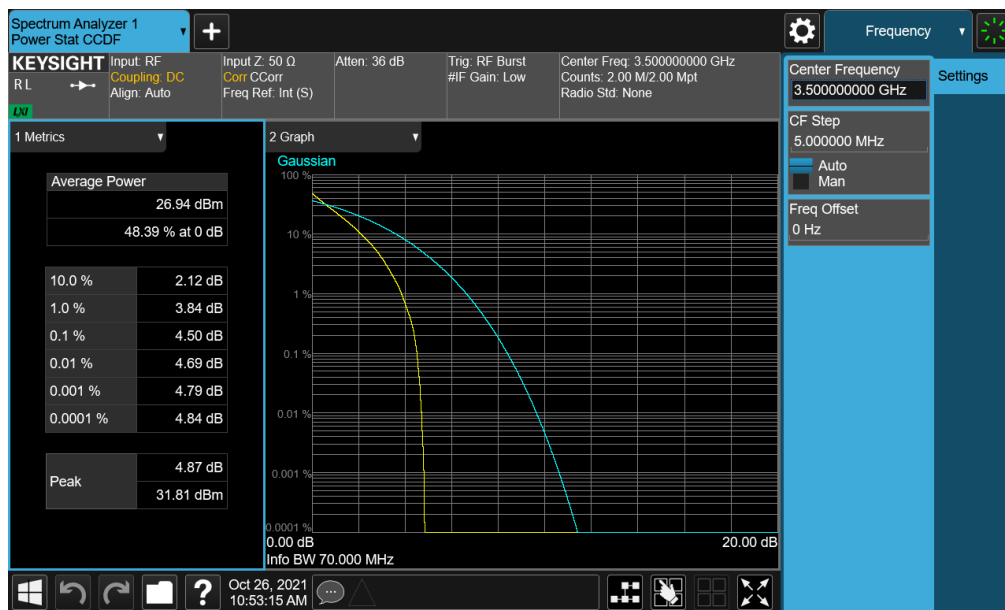


Plot 7-178. PAR Plot (NR Band n77 (DoD) - 80MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 116 of 181

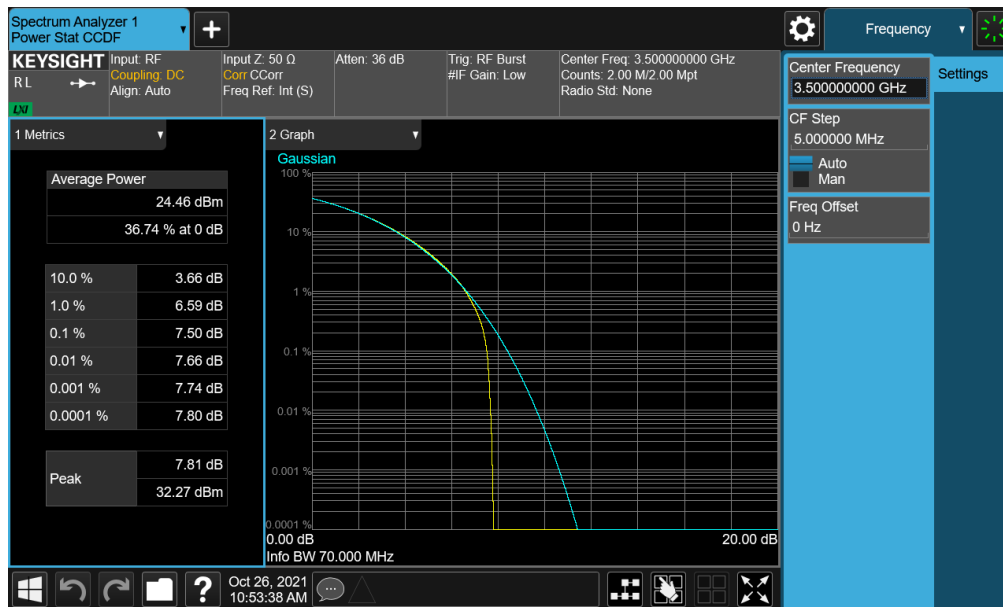


Plot 7-179. PAR Plot (NR Band n77 (DoD) - 80MHz CP-OFDM 256-QAM - Full RB - ANT F)



Plot 7-180. PAR Plot (NR Band n77 (DoD) - 70MHz DFT-s-OFDM BPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 117 of 181

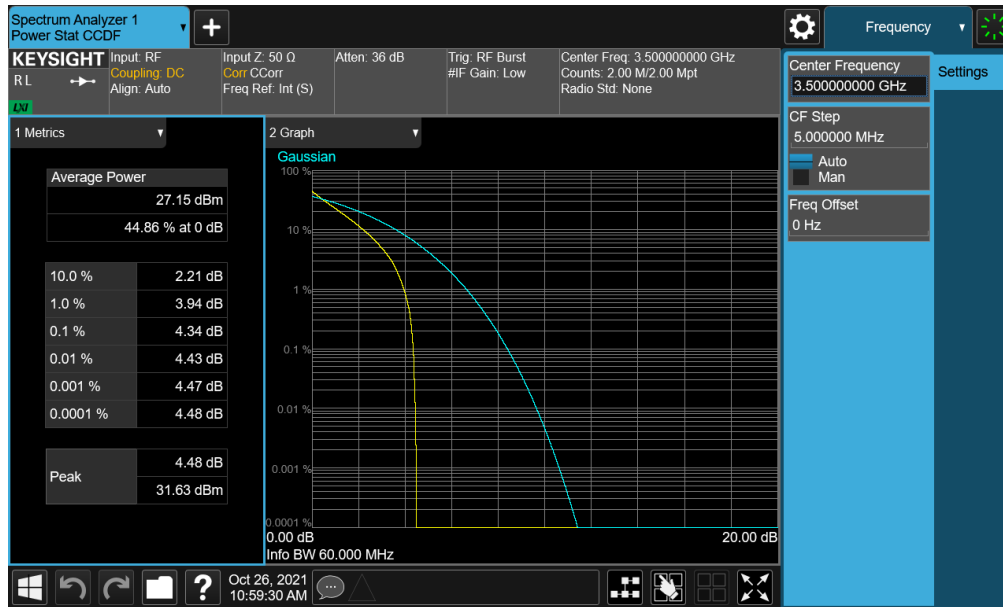


Plot 7-181. PAR Plot (NR Band n77 (DoD) - 70MHz CP-OFDM QPSK - Full RB - ANT F)

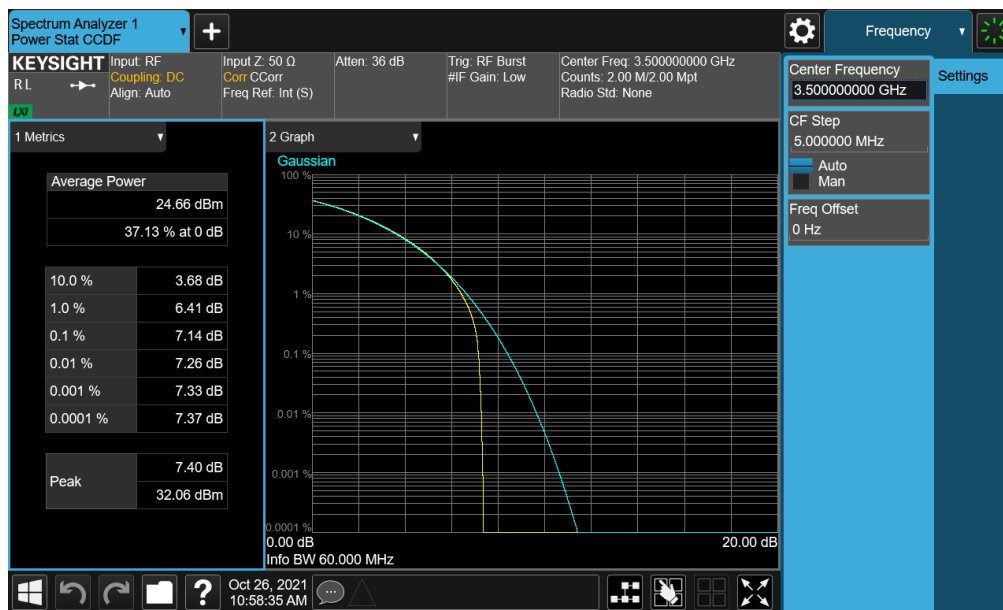


Plot 7-182. PAR Plot (NR Band n77 (DoD) - 70MHz CP-OFDM 256-QAM - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 118 of 181



Plot 7-183. PAR Plot (NR Band n77 (DoD) - 60MHz DFT-s-OFDM BPSK - Full RB - ANT F)



Plot 7-184. PAR Plot (NR Band n77 (DoD) - 60MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109090103-29.A3L	Test Dates: 9/10/2021 - 11/10/2021	EUT Type: Portable Handset	Page 119 of 181