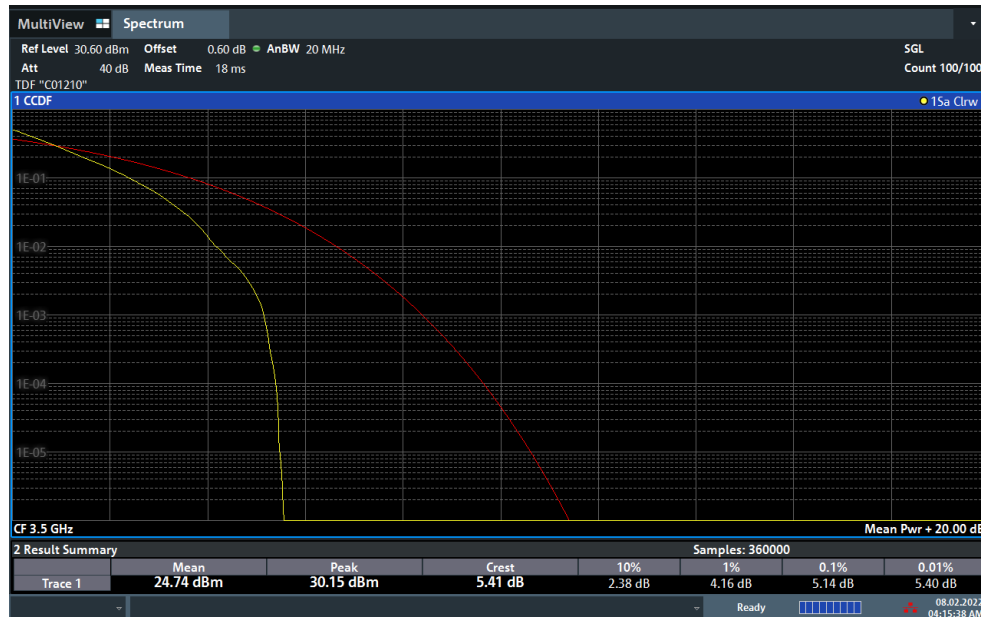




## NR Band n77 DoD-Band



Plot 7-109. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-110. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM QPSK - Full RB)


FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 75 of 174



**Plot 7-111. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 16-QAM - Full RB)**



**Plot 7-112. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 64-QAM - Full RB)**



FCC ID: BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device
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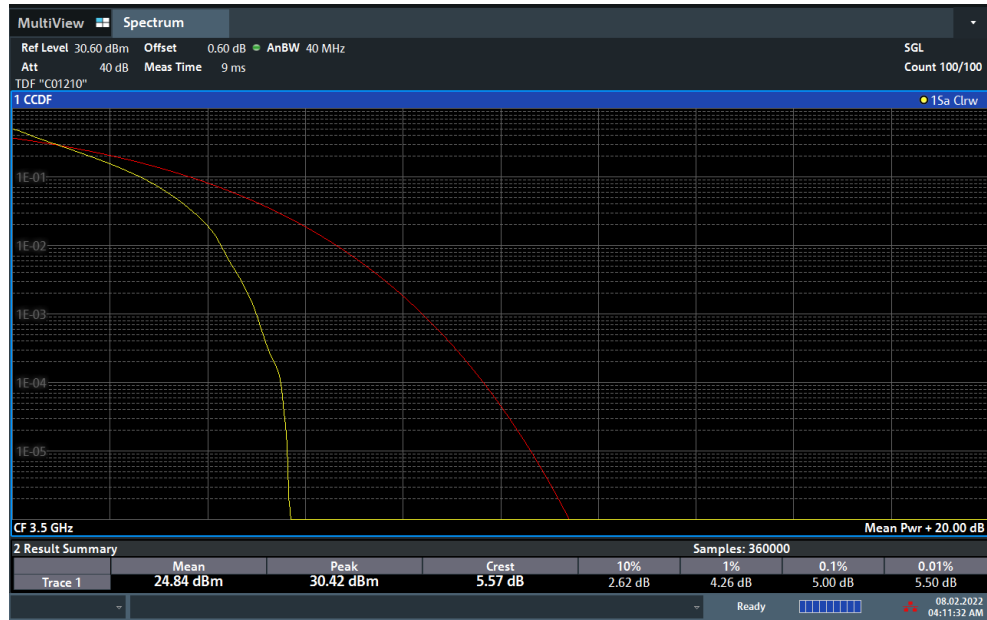


Plot 7-113. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-114. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)


FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 77 of 174



Plot 7-115. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-116. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device
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Plot 7-117. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-118. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 79 of 174	

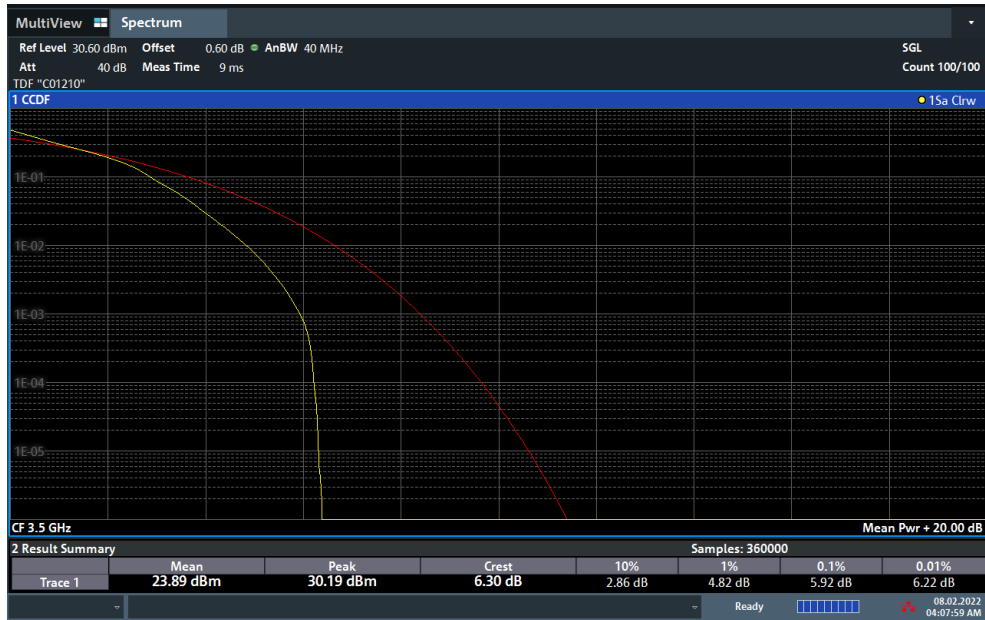


Plot 7-119. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

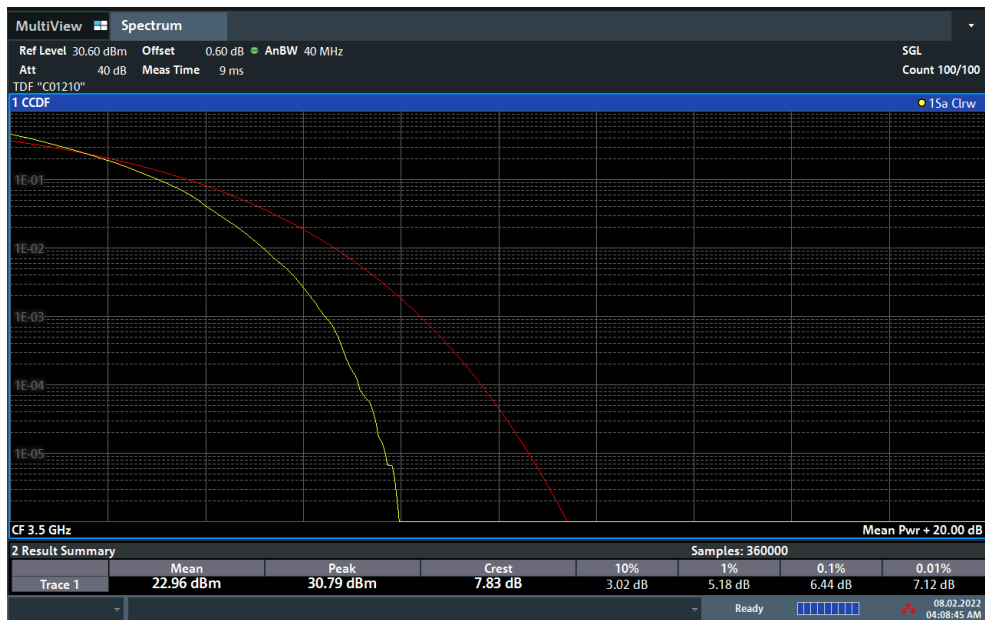


Plot 7-120. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 80 of 174	

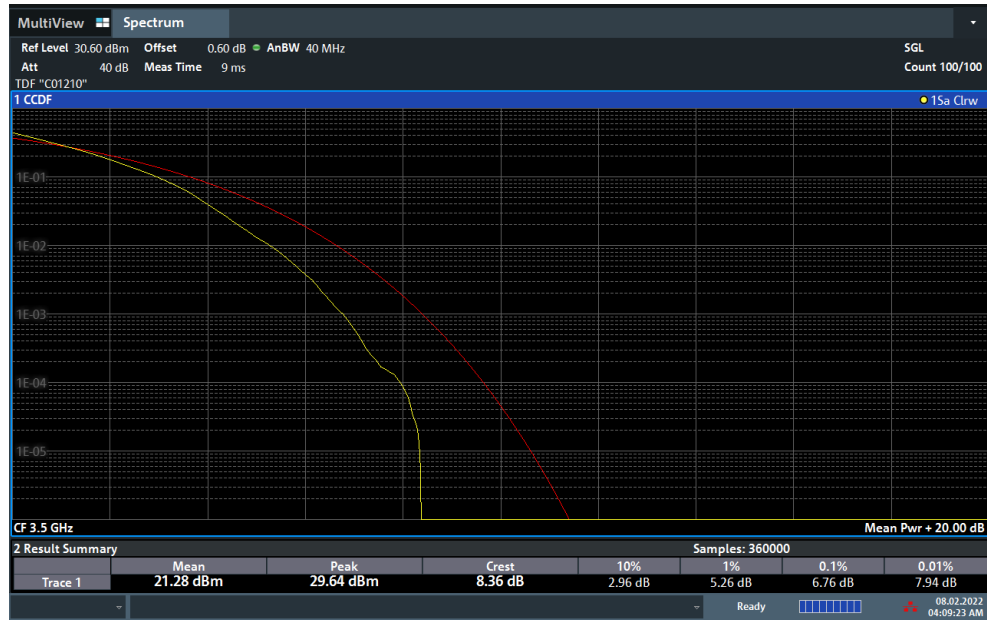


Plot 7-121. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-122. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 64-QAM - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 81 of 174



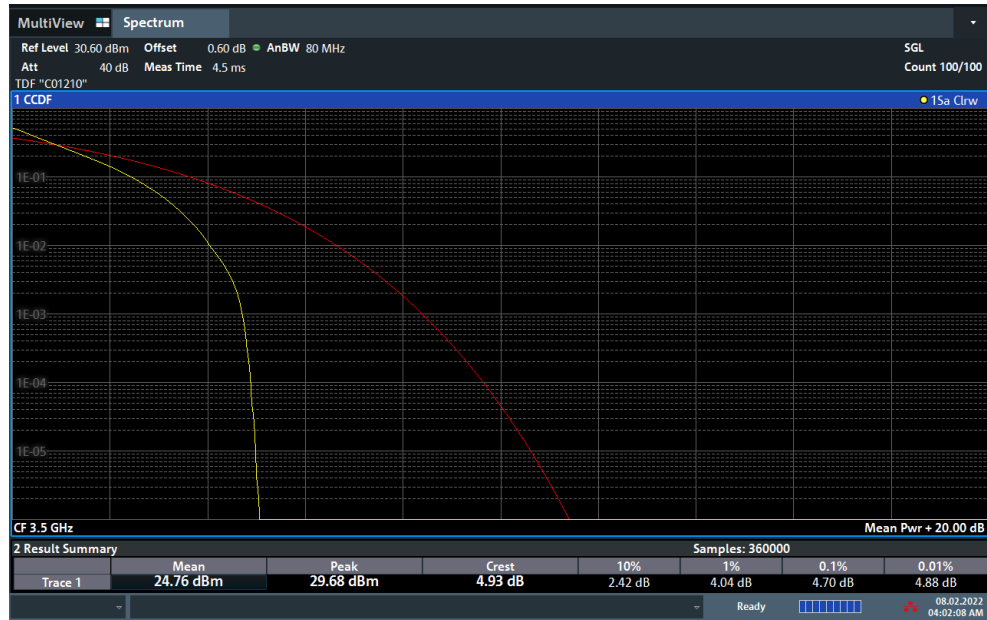
Plot 7-123. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-124. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 82 of 174







Plot 7-125. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM QPSK - Full RB)

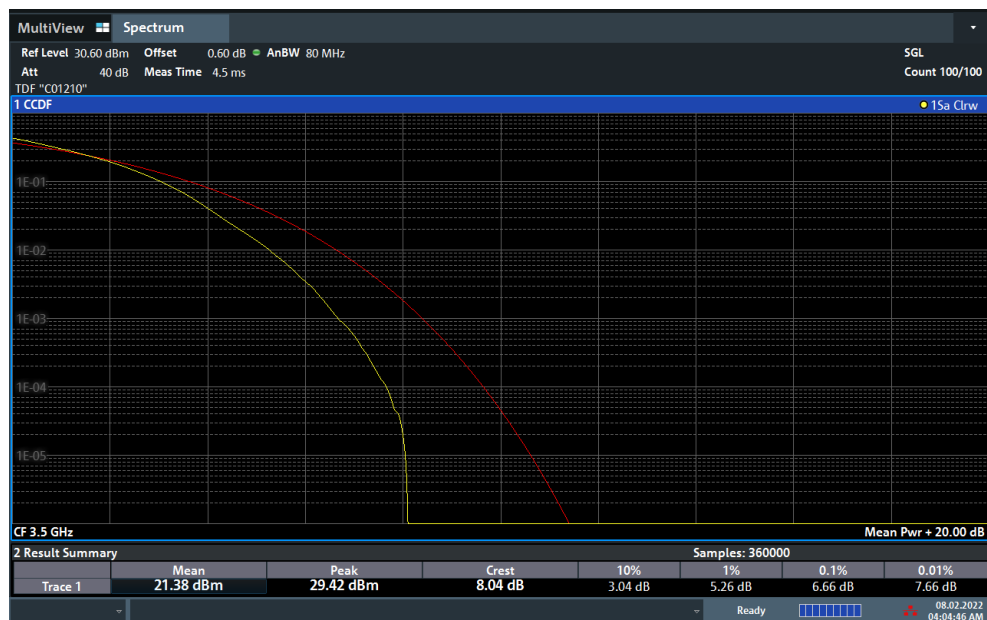


Plot 7-126. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 83 of 174	



Plot 7-127. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-128. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 84 of 174	

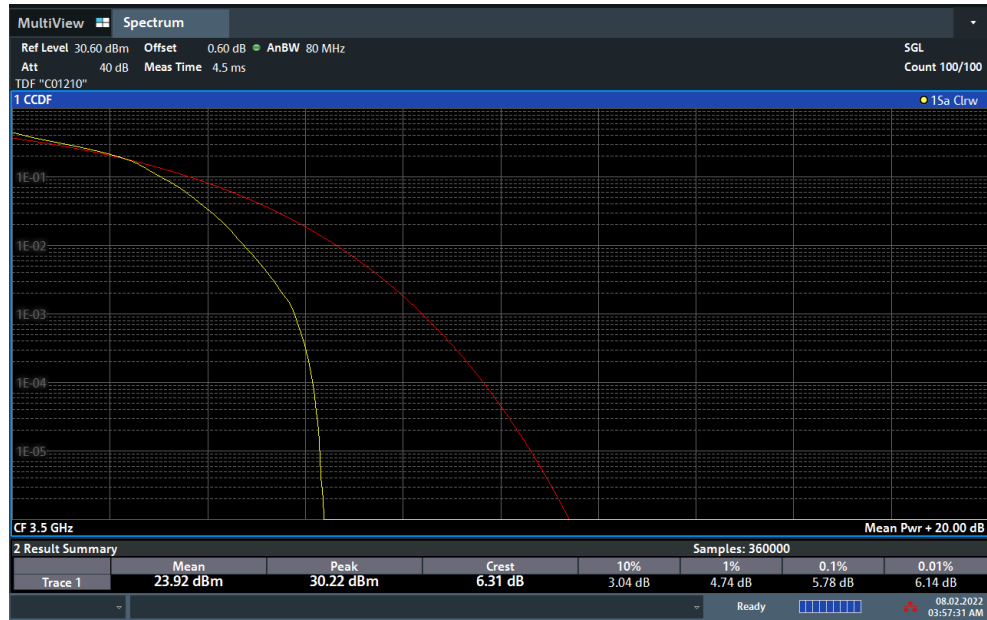


Plot 7-129. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

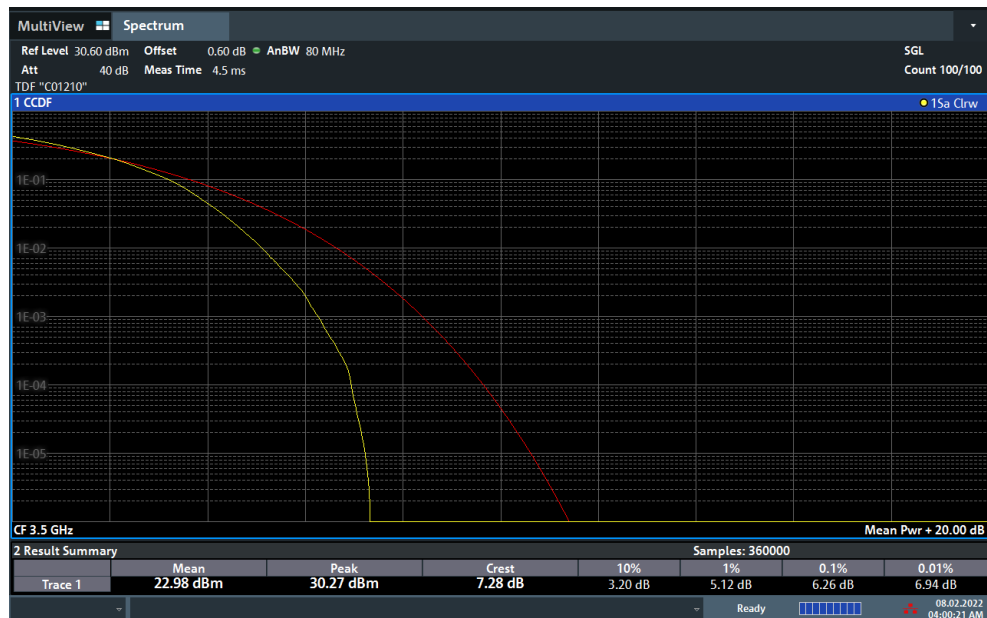


Plot 7-130. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM QPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 85 of 174	



**Plot 7-131. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 16-QAM - Full RB)**

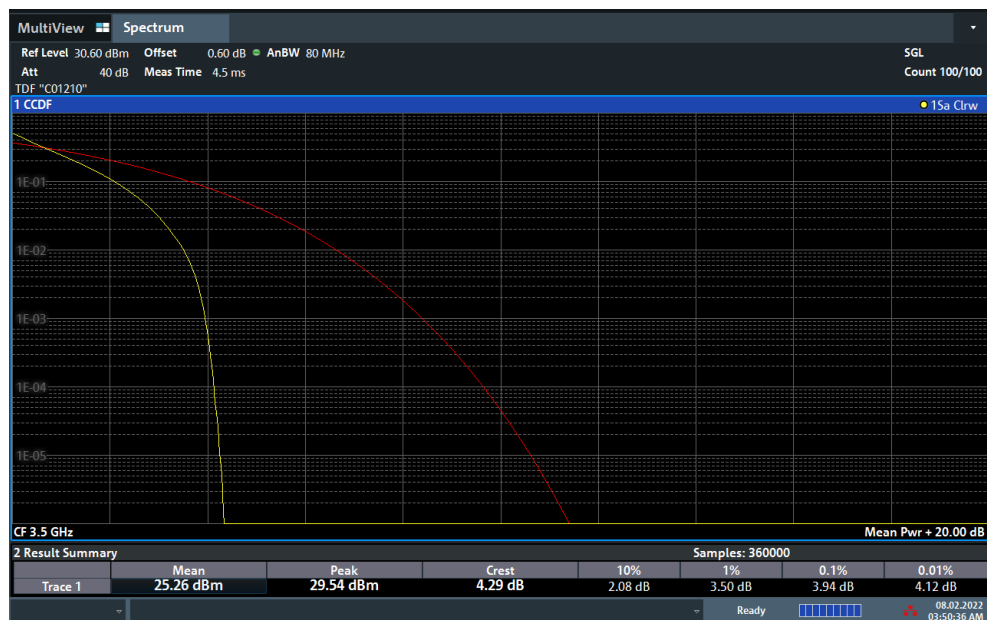


**Plot 7-132. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 64-QAM - Full RB)**



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 86 of 174



Plot 7-133. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-134. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 87 of 174	

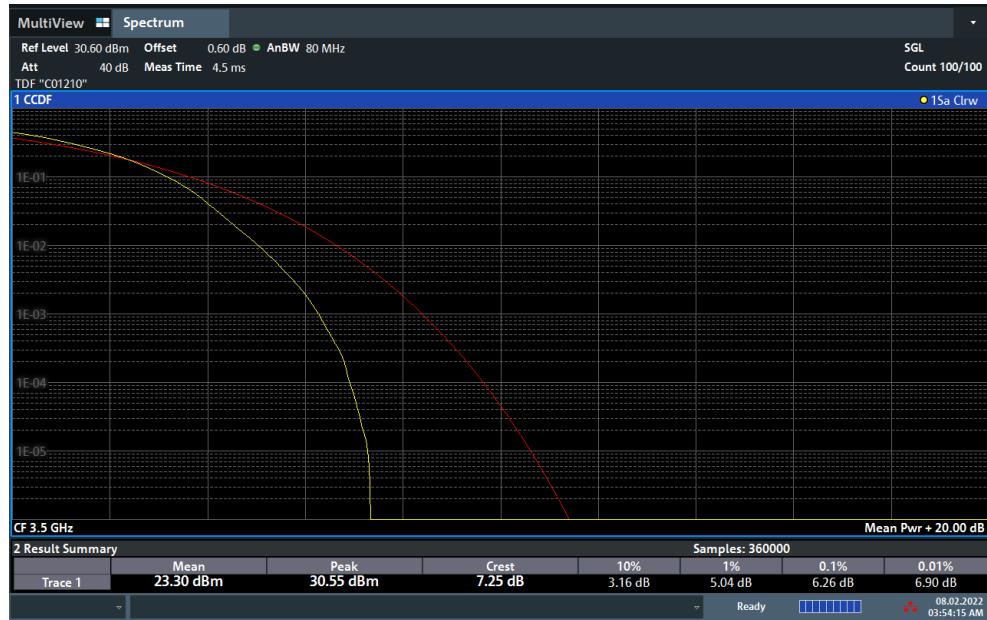


Plot 7-135. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM QPSK - Full RB)

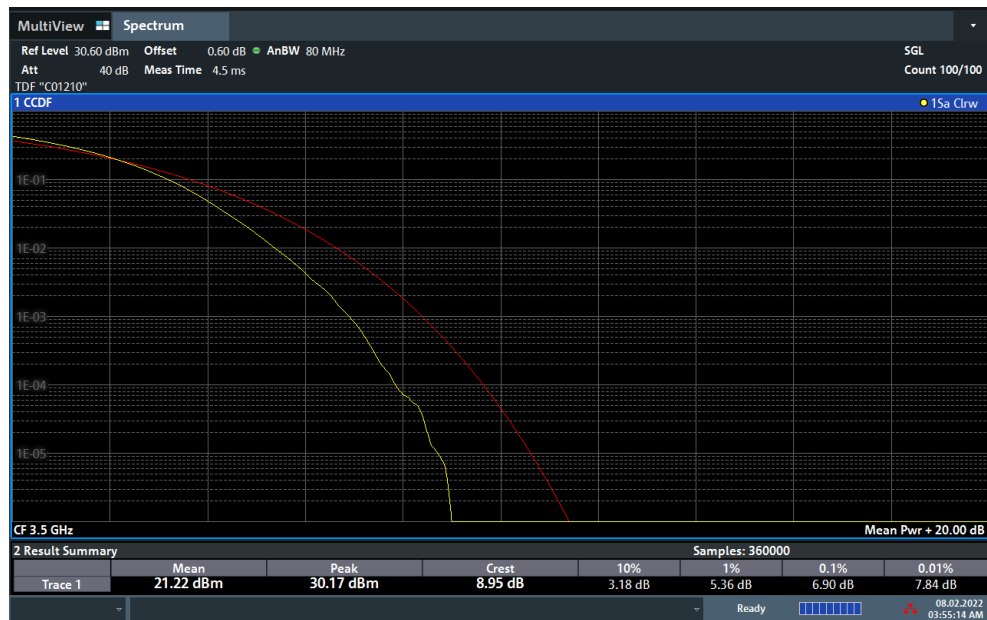


Plot 7-136. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 88 of 174	



Plot 7-137. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-138. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 89 of 174	



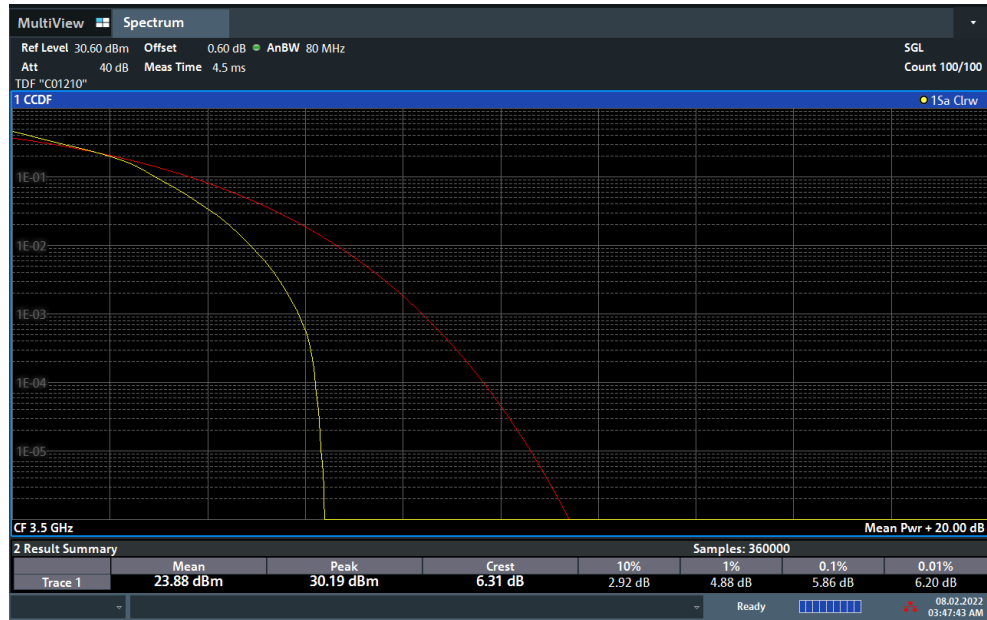
Plot 7-139. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-140. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 90 of 174





Plot 7-141. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-142. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 64-QAM - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 91 of 174



Plot 7-143. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-144. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 92 of 174	



Plot 7-145. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-146. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 93 of 174	

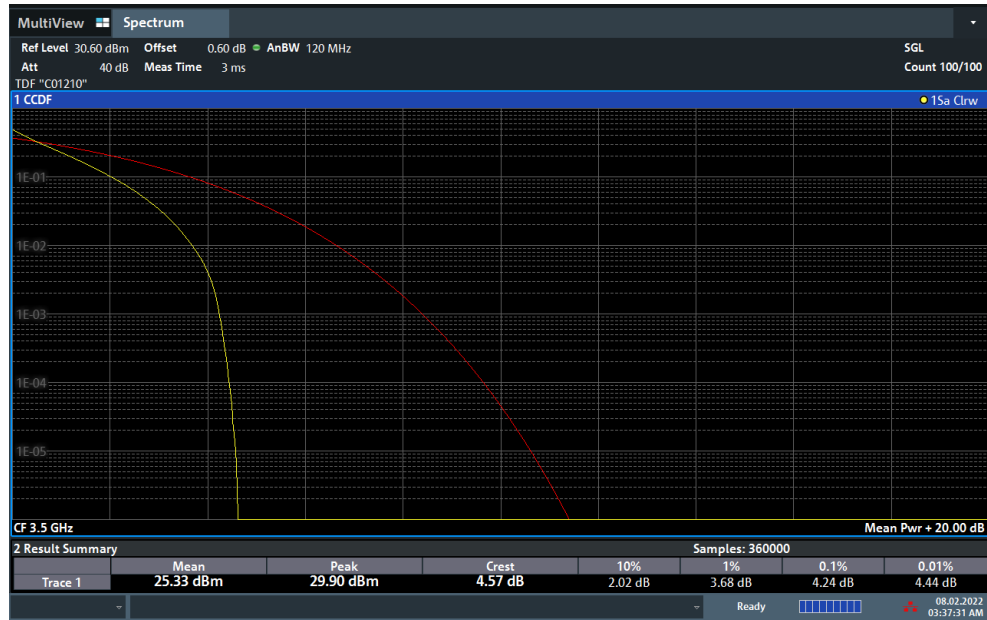


Plot 7-147. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-148. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 94 of 174

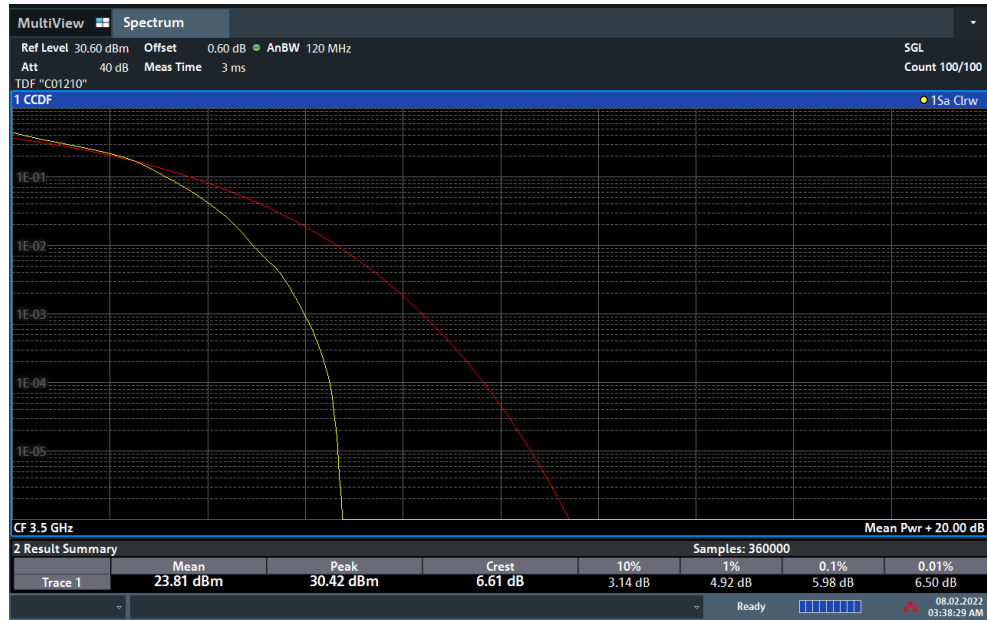


Plot 7-149. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-150. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM QPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 95 of 174



Plot 7-151. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 16-QAM - Full RB)




Plot 7-152. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 96 of 174	



**Plot 7-153. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 256-QAM - Full RB)**

<b>FCC ID:</b> BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2111150079-05.BCG	<b>Test Dates:</b> 11/29/2021 – 2/7/2022	<b>EUT Type:</b> Tablet Device	Page 97 of 174



## NR Band n77 C-Band



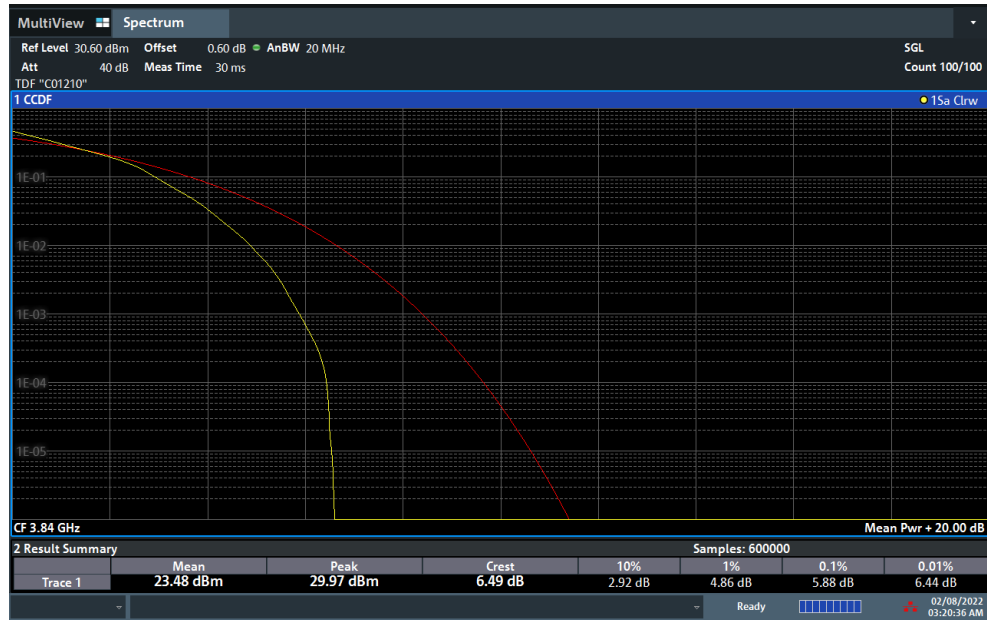
Plot 7-154. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-155. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 98 of 174







Plot 7-156. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-157. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 99 of 174	

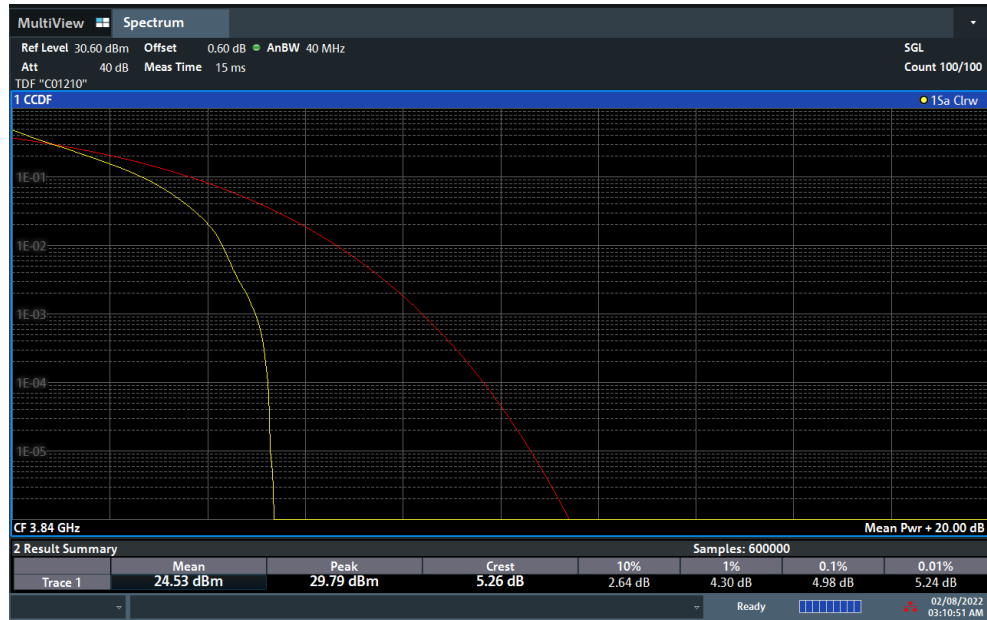


Plot 7-158. PAR Plot (NR Band n77 - 20MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-159. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 100 of 174	

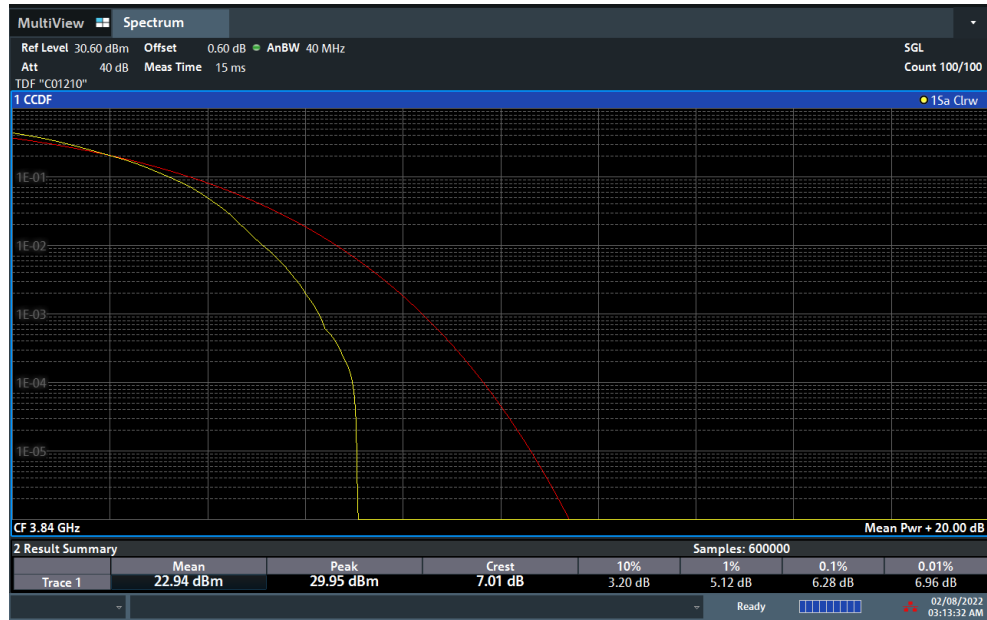


Plot 7-160. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-161. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 101 of 174	



Plot 7-162. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 64-QAM - Full RB)

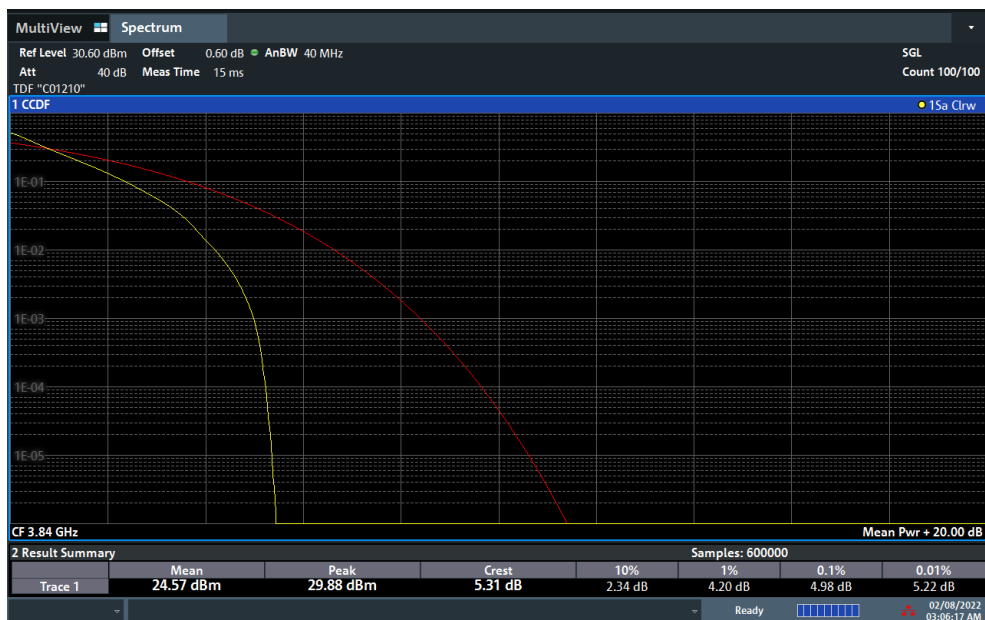


Plot 7-163. PAR Plot (NR Band n77 - 30MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 102 of 174



Plot 7-164. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-165. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 103 of 174	

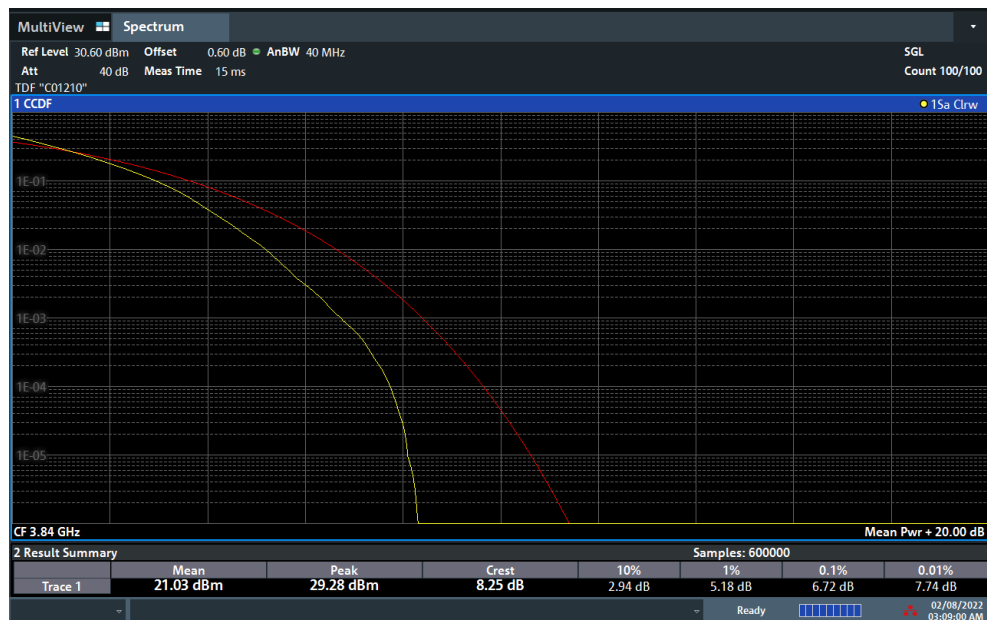


Plot 7-166. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-167. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 104 of 174

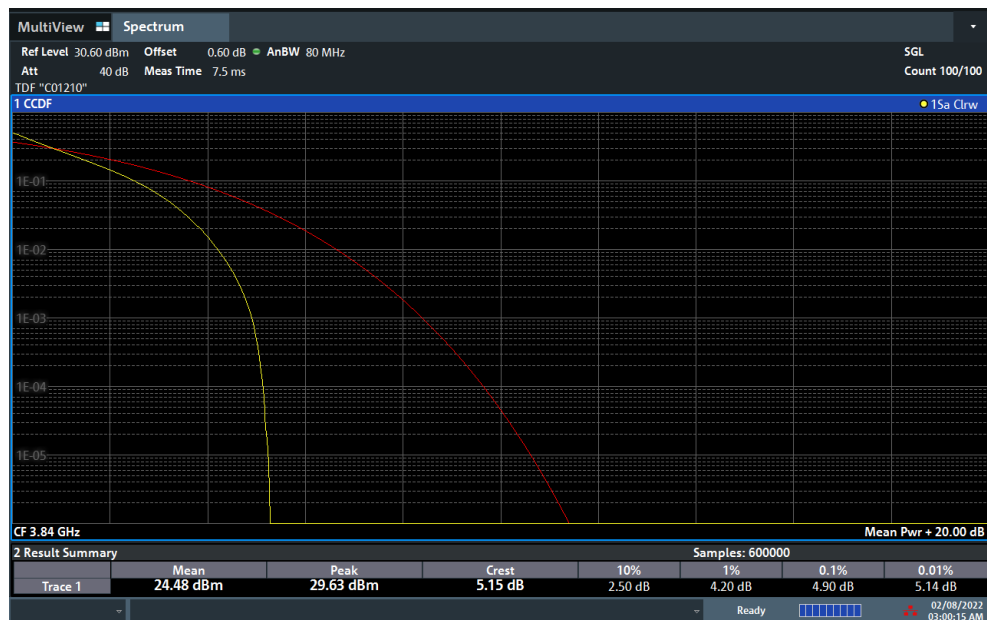


Plot 7-168. PAR Plot (NR Band n77 - 40MHz DFT-s-OFDM 256-QAM - Full RB)

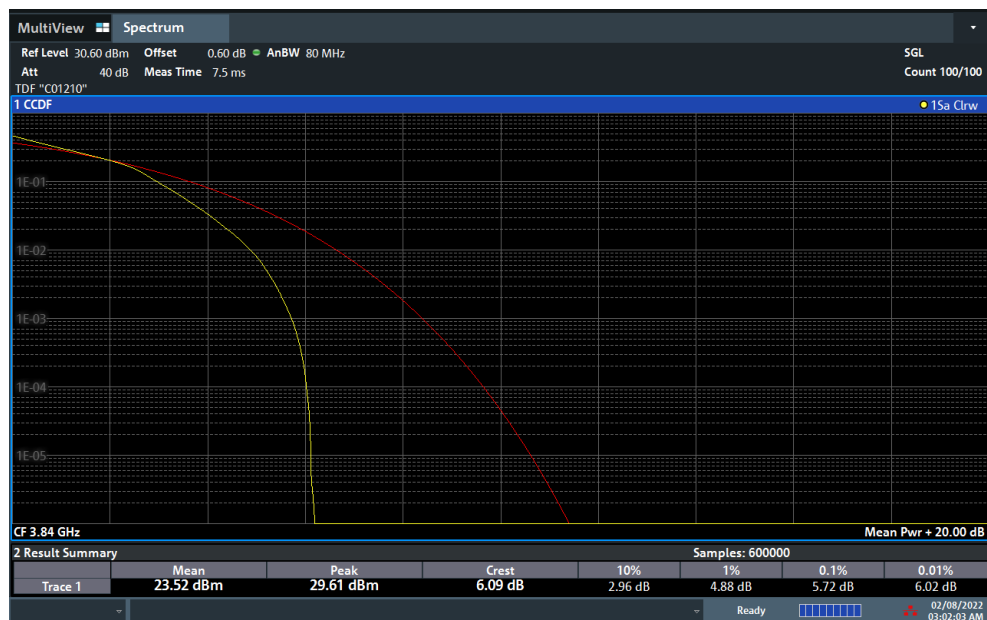


Plot 7-169. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 105 of 174



Plot 7-170. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-171. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 106 of 174	





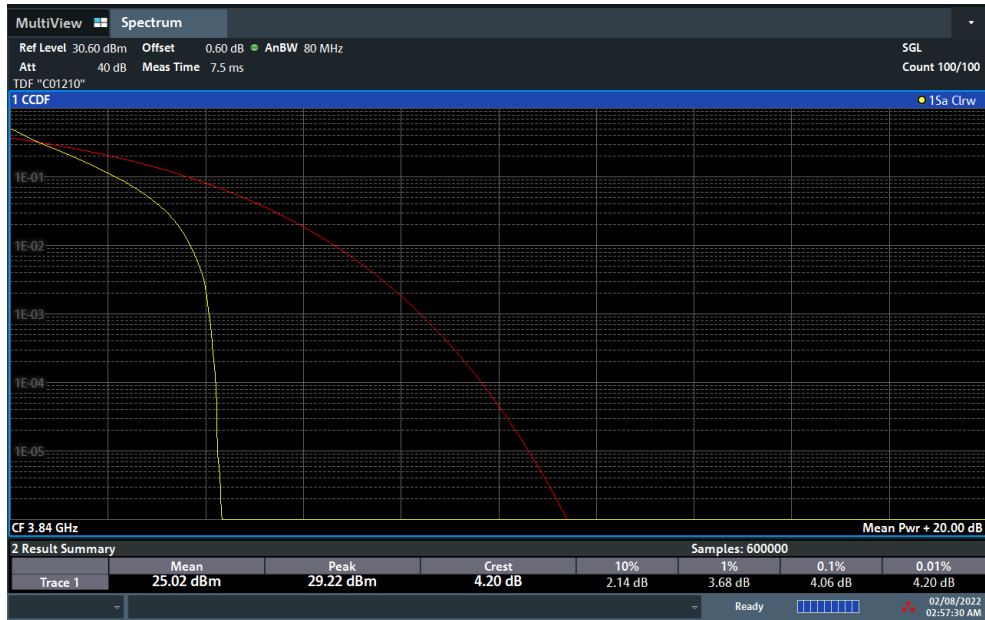


Plot 7-172. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 64-QAM - Full RB)

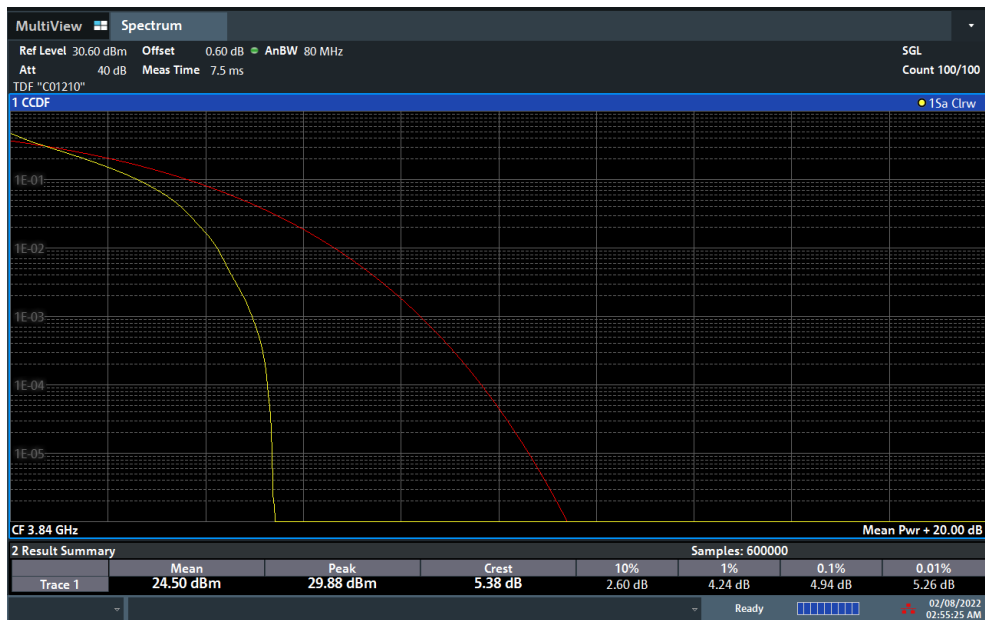


Plot 7-173. PAR Plot (NR Band n77 - 50MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 107 of 174	

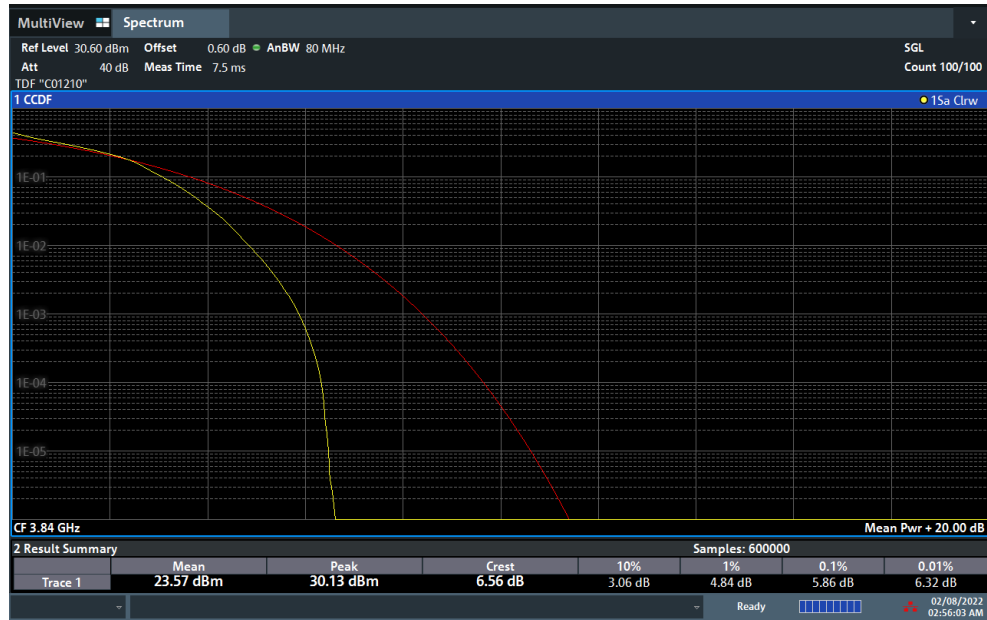


Plot 7-174. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-175. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM QPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 108 of 174	

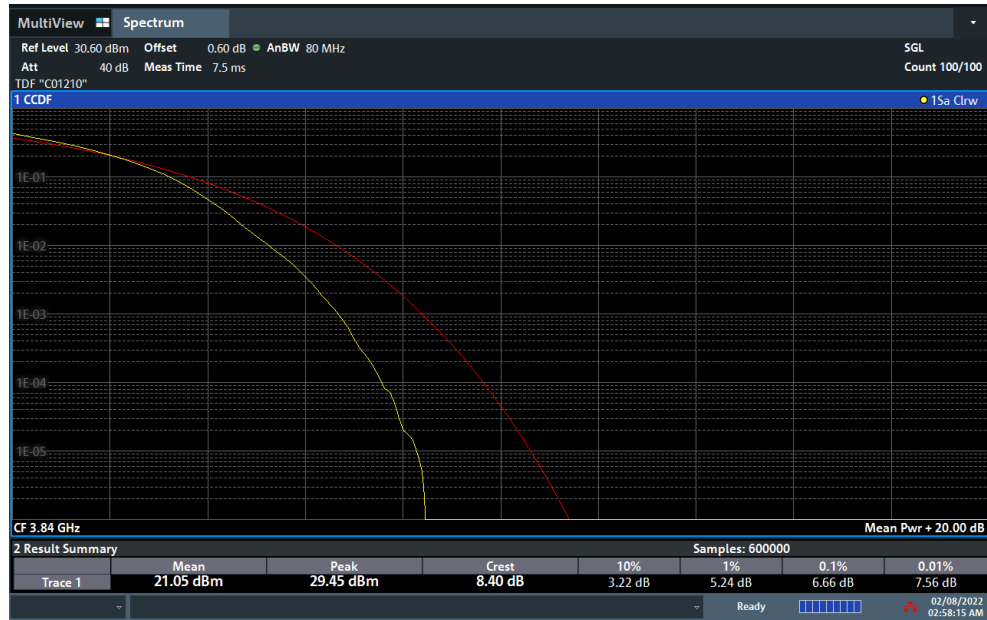


Plot 7-176. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-177. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 64-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device		Page 109 of 174

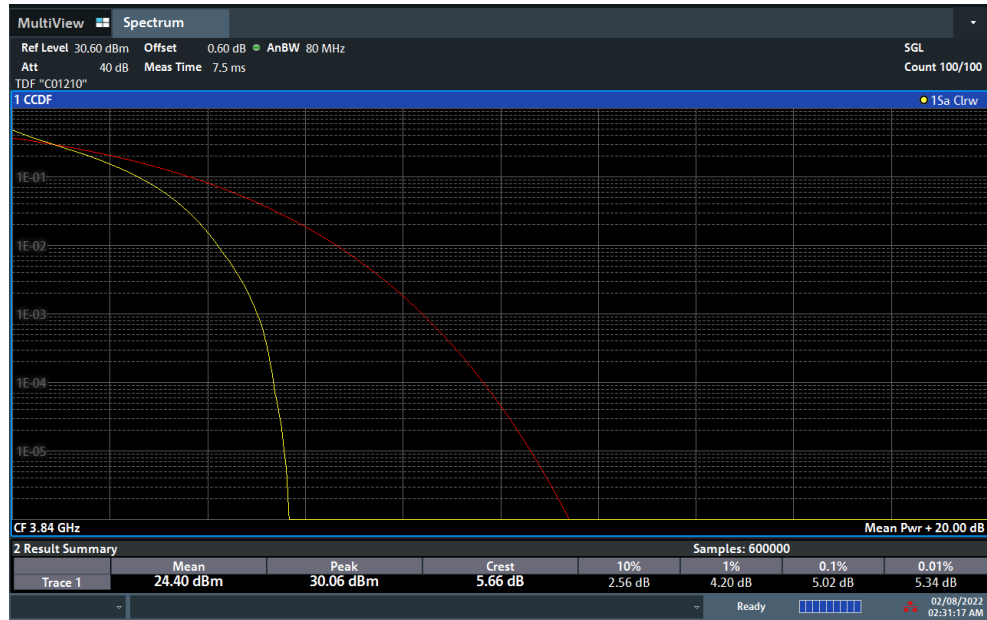


Plot 7-178. PAR Plot (NR Band n77 - 60MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-179. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 110 of 174	



Plot 7-180. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-181. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 111 of 174	



Plot 7-182. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 64-QAM - Full RB)

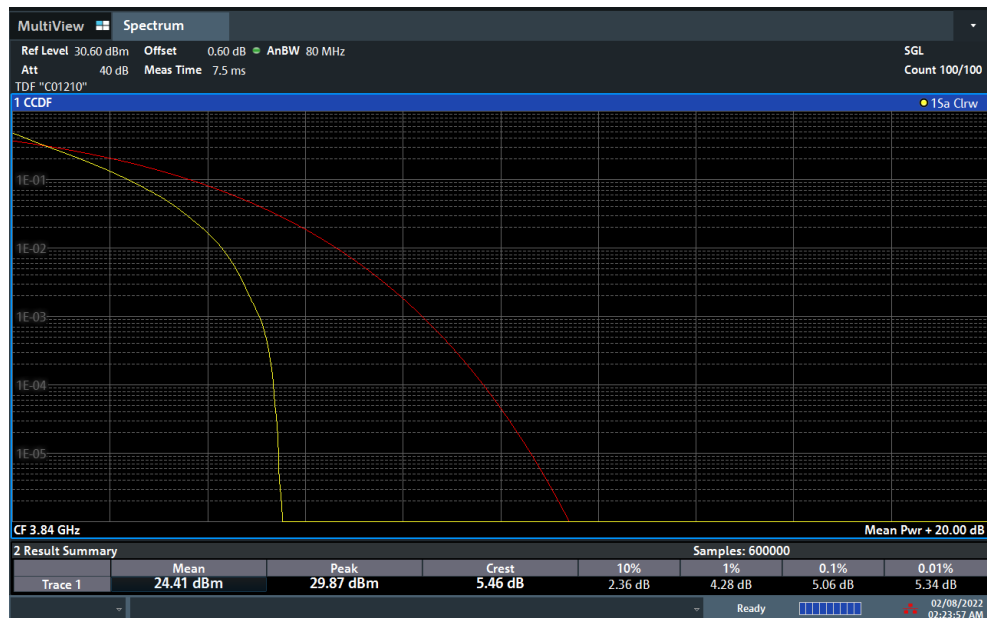


Plot 7-183. PAR Plot (NR Band n77 - 70MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-184. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-185. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM QPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-186. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 16-QAM - Full RB)



Plot 7-187. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 114 of 174	





Plot 7-188. PAR Plot (NR Band n77 - 80MHz DFT-s-OFDM 256-QAM - Full RB)



Plot 7-189. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-190. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM QPSK - Full RB)



Plot 7-191. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 16-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-192. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 64-QAM - Full RB)



Plot 7-193. PAR Plot (NR Band n77 - 90MHz DFT-s-OFDM 256-QAM - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-194. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-195. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM QPSK - Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 118 of 174	



Plot 7-196. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 16-QAM - Full RB)




Plot 7-197. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 119 of 174	



**Plot 7-198. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM 256-QAM - Full RB)**

FCC ID: BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device
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## 7.5 Band Edge Emissions at Antenna Terminal

\$2.1051, \$27.53(l), \$27.53(n)

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data was reported.

***For NR FR1 Band n77, the minimum permissible attenuation level of any spurious emission is  $43 + 10 \log_{10}(P_{\text{Watts}})$ , where  $P$  is the transmitter power in Watts.***

### Test Procedure Used

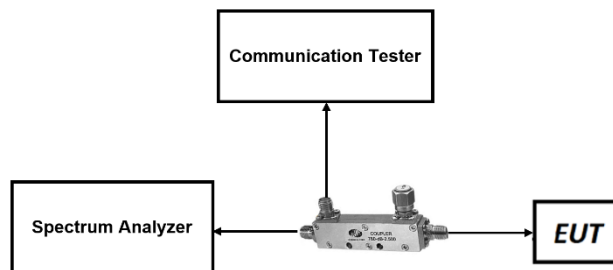
KDB 971168 D01 v03r01 – Section 6.0

### Test Settings



1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq 1\%$  of the emission bandwidth
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.




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

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2111150079-05.BCG	<b>Test Dates:</b> 11/29/2021 – 2/7/2022	<b>EUT Type:</b> Tablet Device	Page 121 of 174

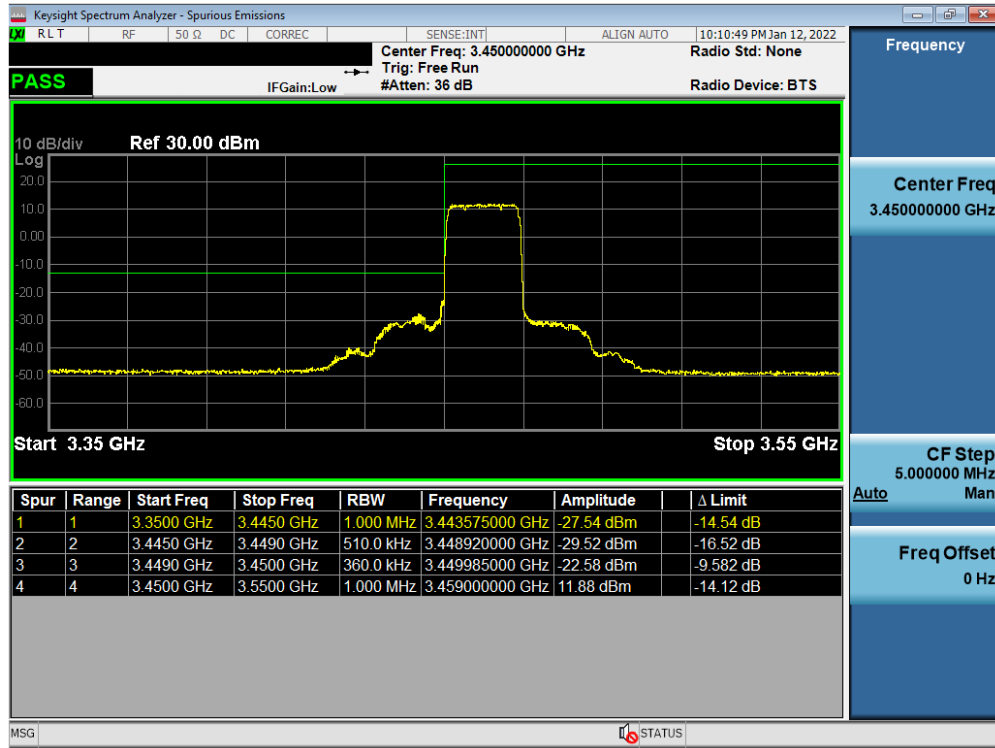
## Test Notes

1. Per Part 27.53(l), compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 1MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth shall be 500kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. Per Part 27.53(n), compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 1MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth shall be 500kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

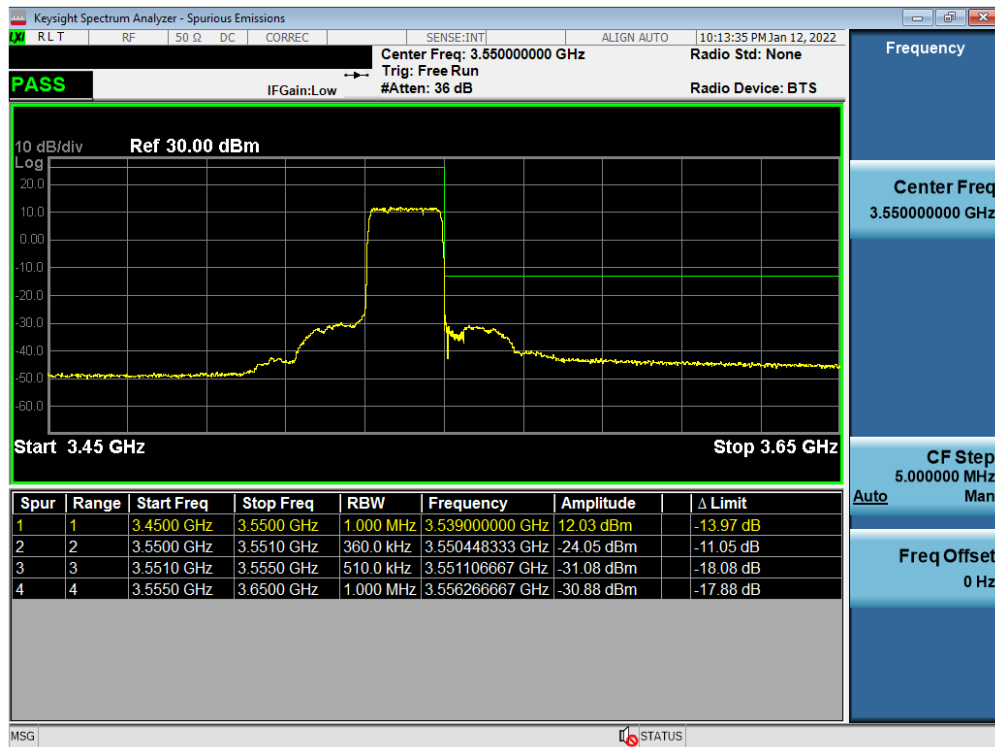
<b>FCC ID:</b> BCGA2589	 <b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2111150079-05.BCG	<b>Test Dates:</b> 11/29/2021 – 2/7/2022	<b>EUT Type:</b> Tablet Device
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## NR Band n77 DoD-Band

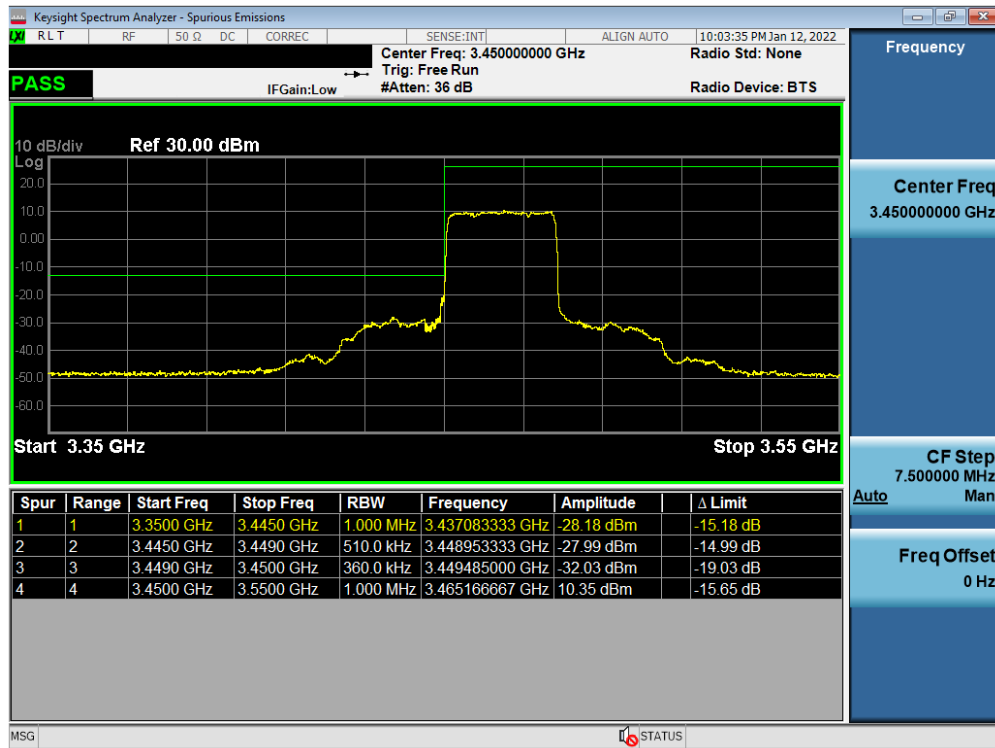


Plot 7-199. Lower ACP Plot (NR Band n77 DoD Band - 20MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

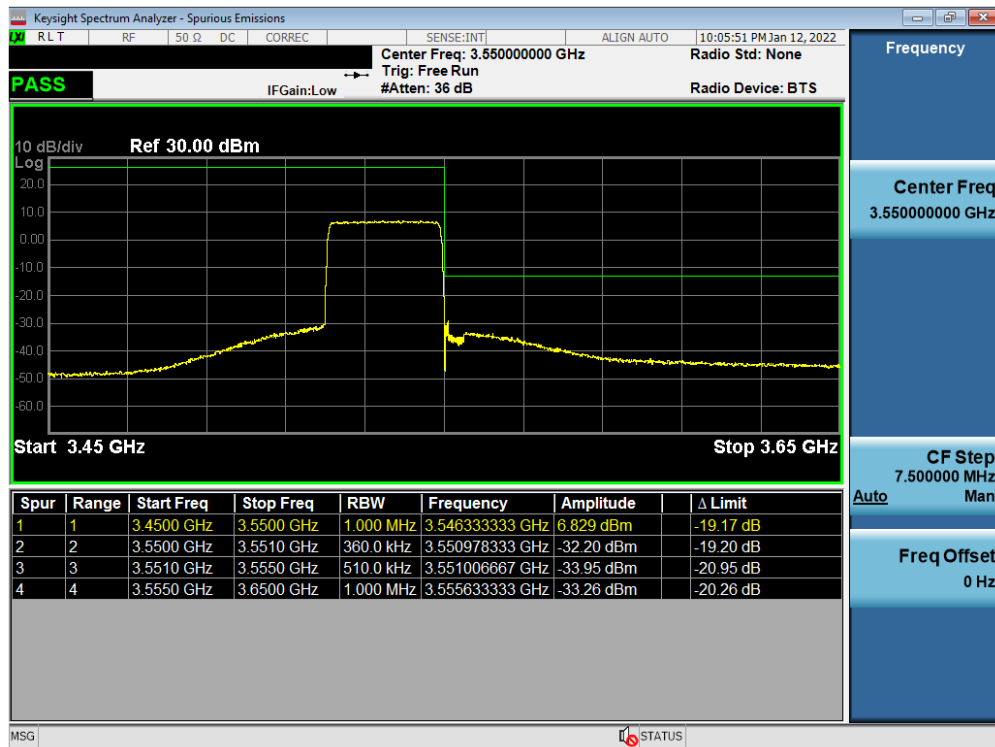


Plot 7-200. Upper ACP Plot (NR Band n77 DoD Band - 20MHz DFT-s-OFDM QPSK– Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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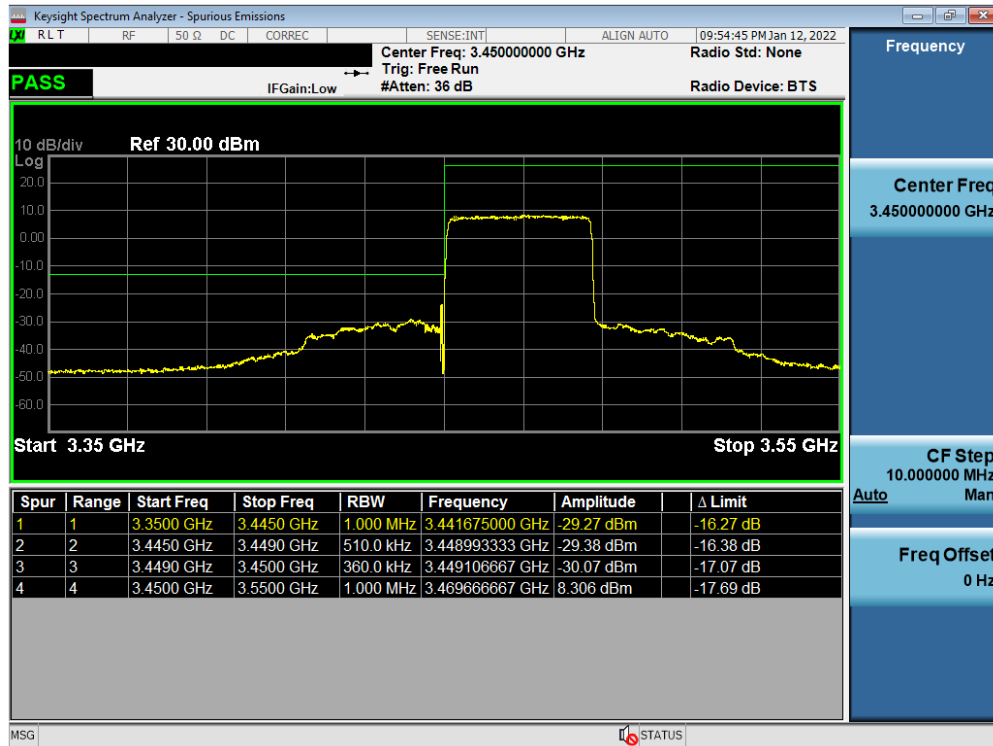


Plot 7-201. Lower ACP Plot (NR Band n77 DoD Band - 30MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

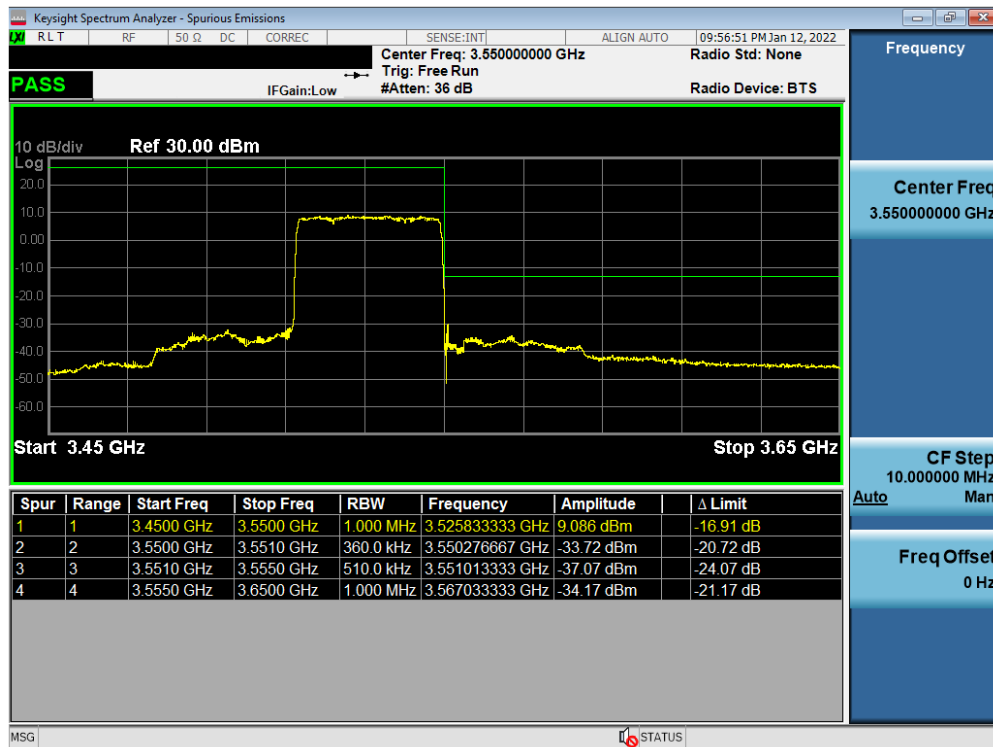


Plot 7-202. Upper ACP Plot (NR Band n77 DoD Band - 30MHz CP-OFDM QPSK – Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 124 of 174

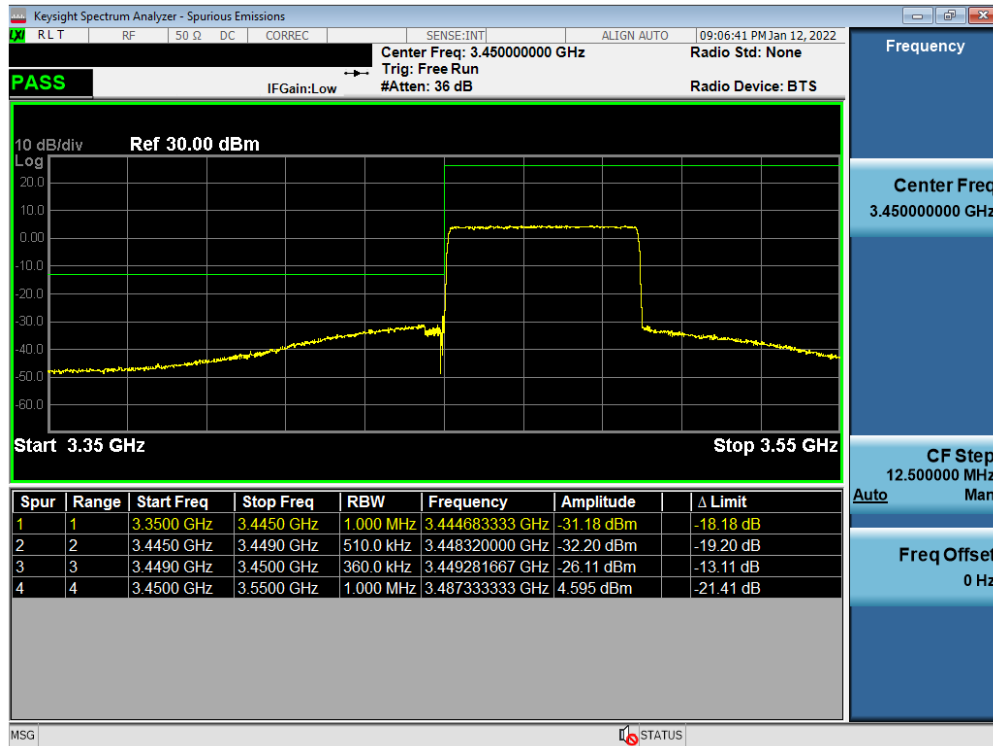


Plot 7-203. Lower ACP Plot (NR Band n77 DoD Band - 40MHz DFT-s-OFDM QPSK – Full RB)

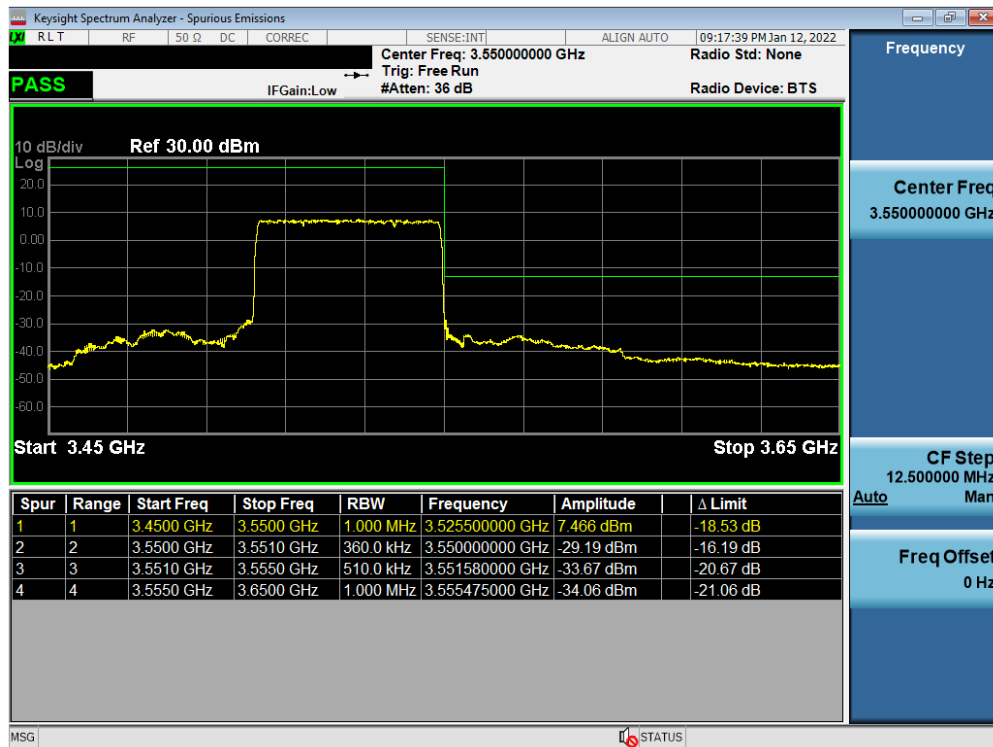


Plot 7-204. Upper ACP Plot (NR Band n77 DoD Band - 40MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 125 of 174

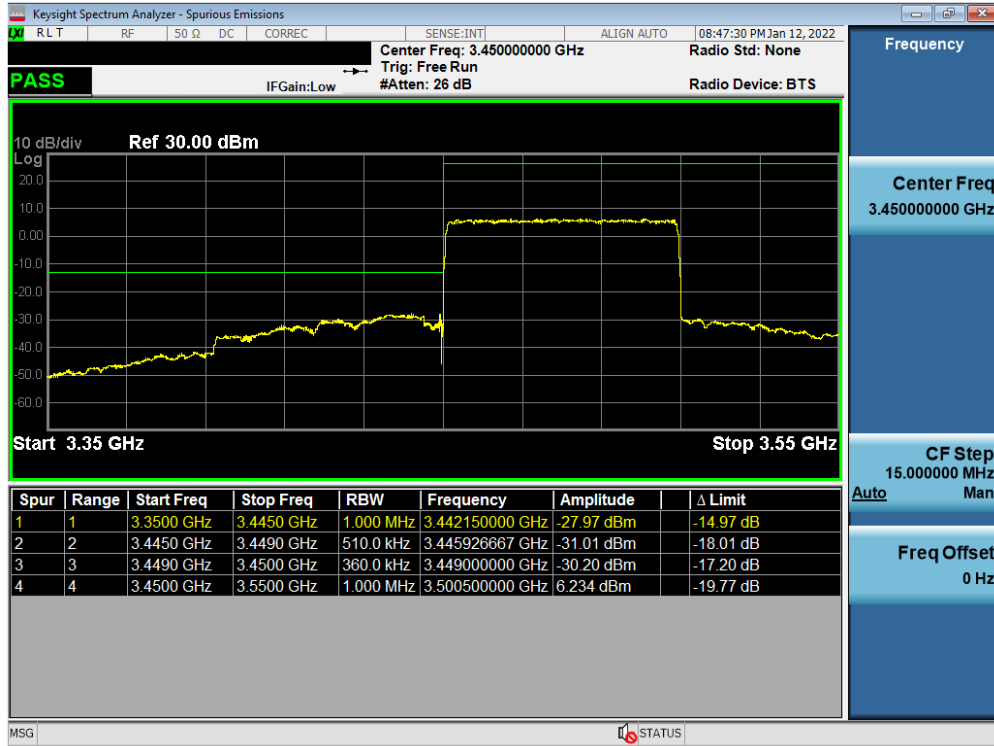


Plot 7-205. Lower ACP Plot (NR Band n77 DoD Band - 50MHz CP-OFDM QPSK – Full RB)

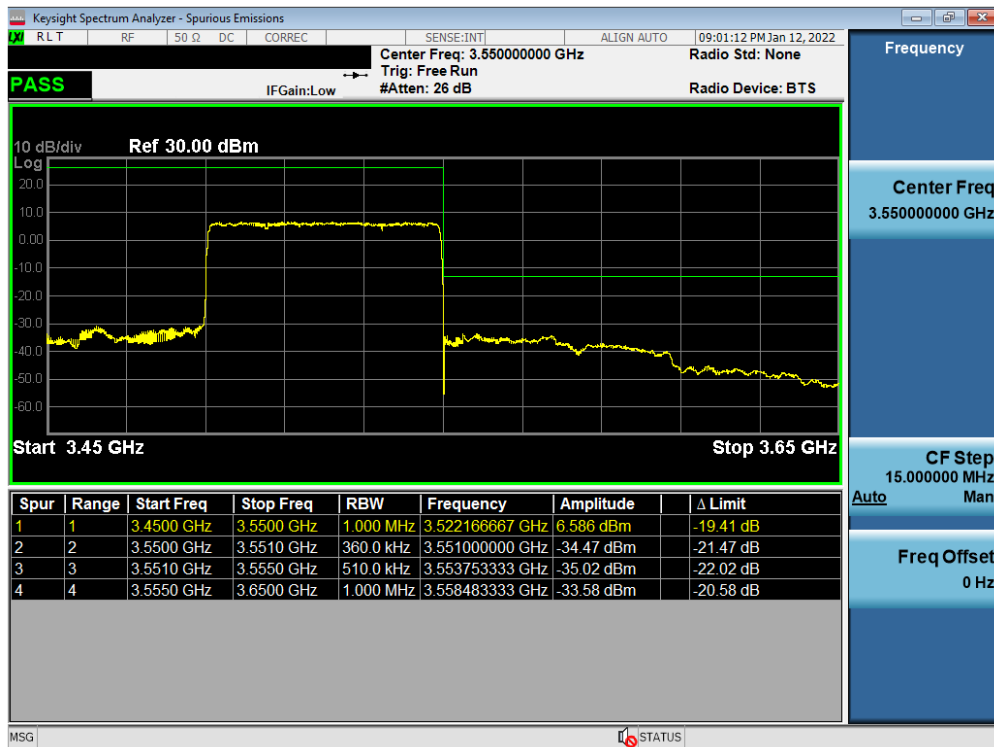


Plot 7-206. Upper ACP Plot (NR Band n77 DoD Band - 50MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 126 of 174

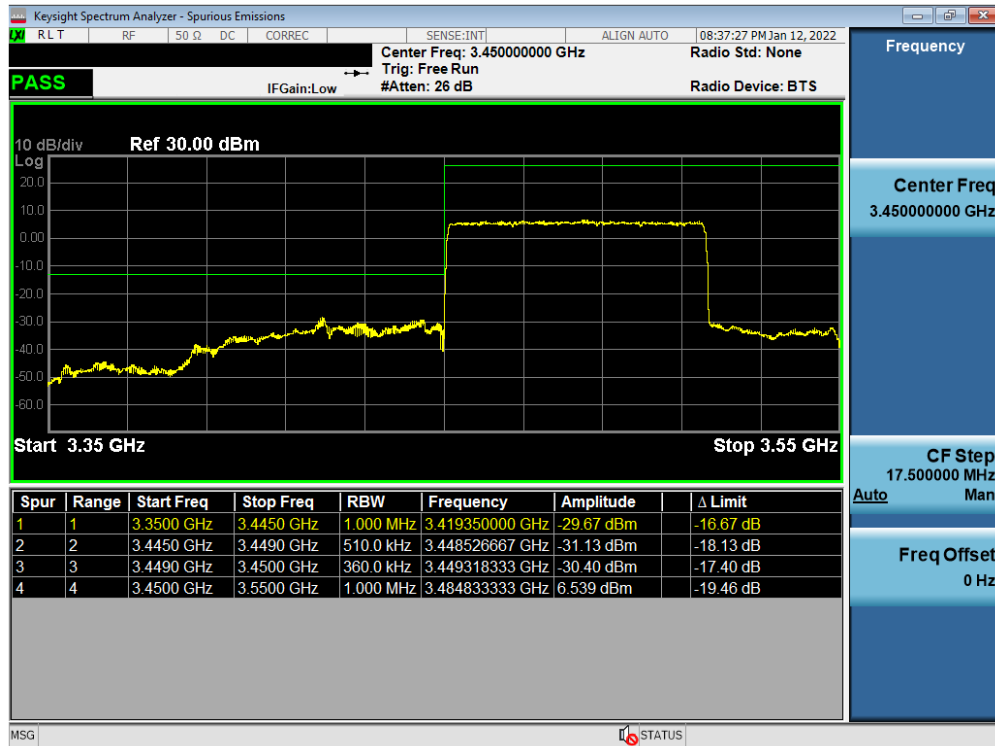


Plot 7-207. Lower ACP Plot (NR Band n77 DoD Band - 60MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

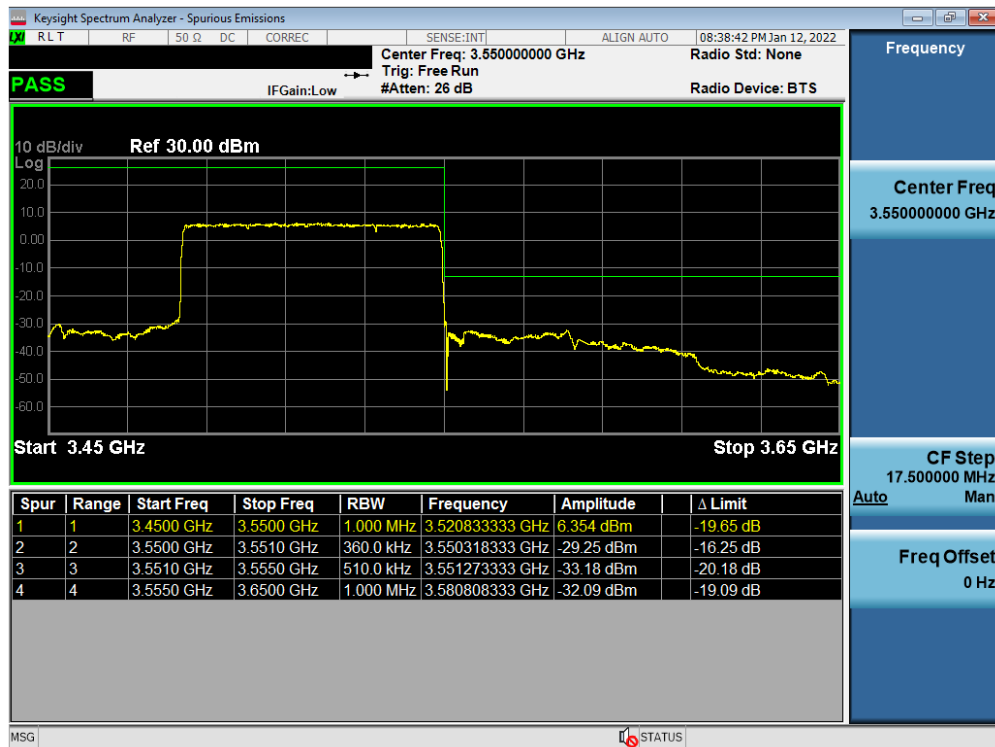


Plot 7-208. Upper ACP Plot (NR Band n77 DoD Band - 60MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 127 of 174

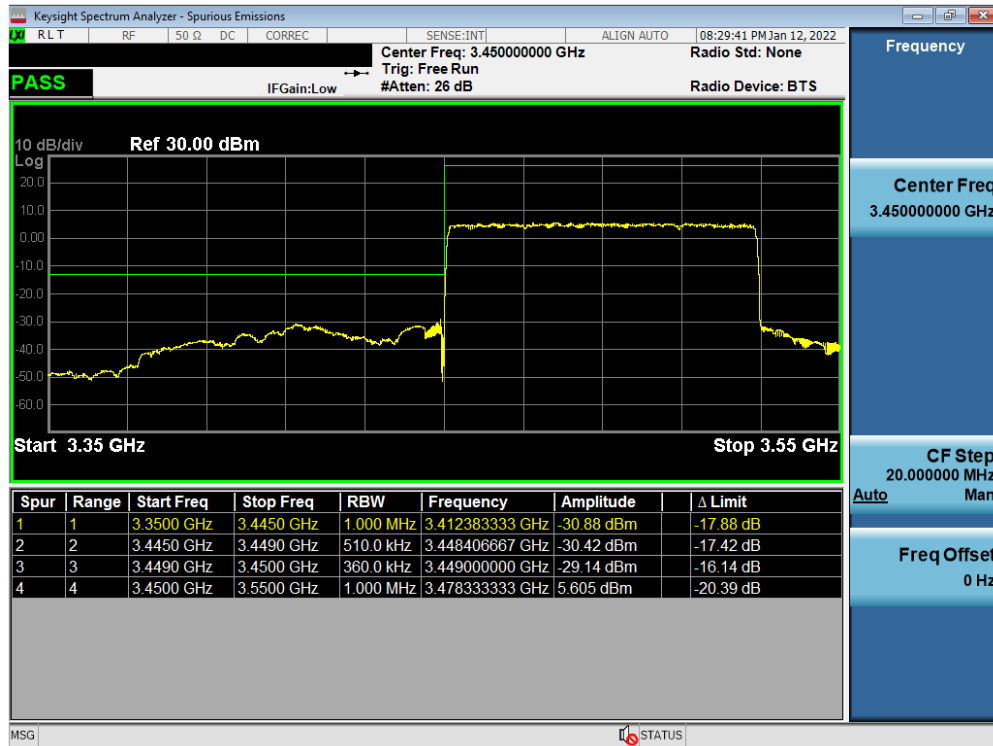


Plot 7-209. Lower ACP Plot (NR Band n77 DoD Band - 70MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

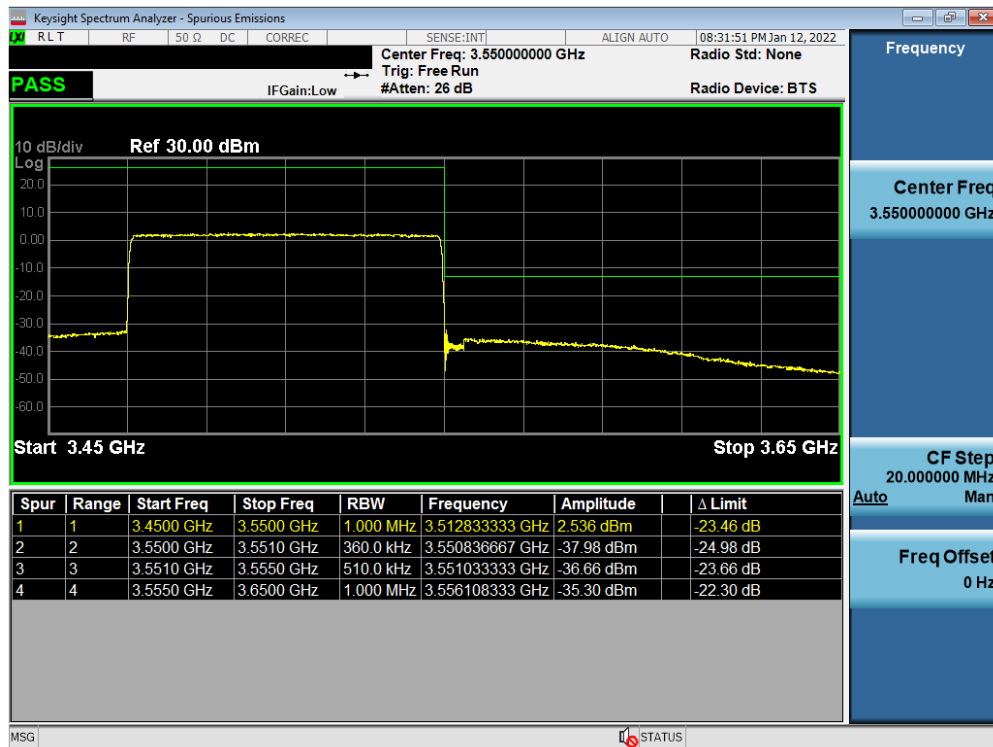


Plot 7-210. Upper ACP Plot (NR Band n77 DoD Band - 70MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 128 of 174

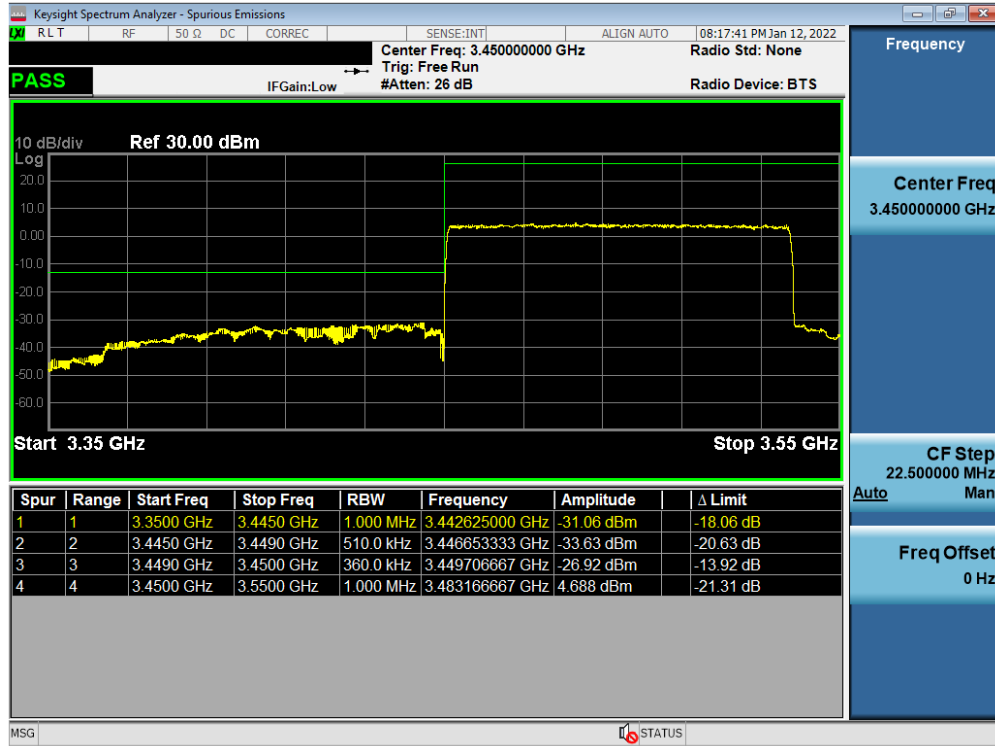


Plot 7-211. Lower ACP Plot (NR Band n77 DoD Band - 80MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

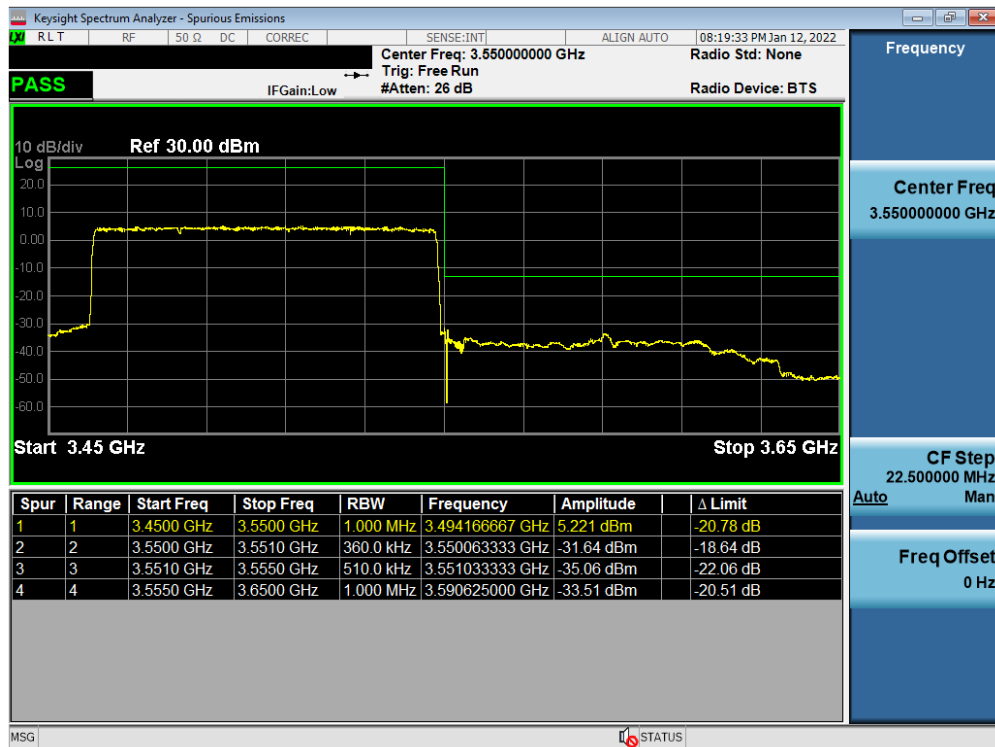


Plot 7-212. Upper ACP Plot (NR Band n77 DoD Band - 80MHz CP-OFDM  $\pi/2$  BPSK – Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 129 of 174



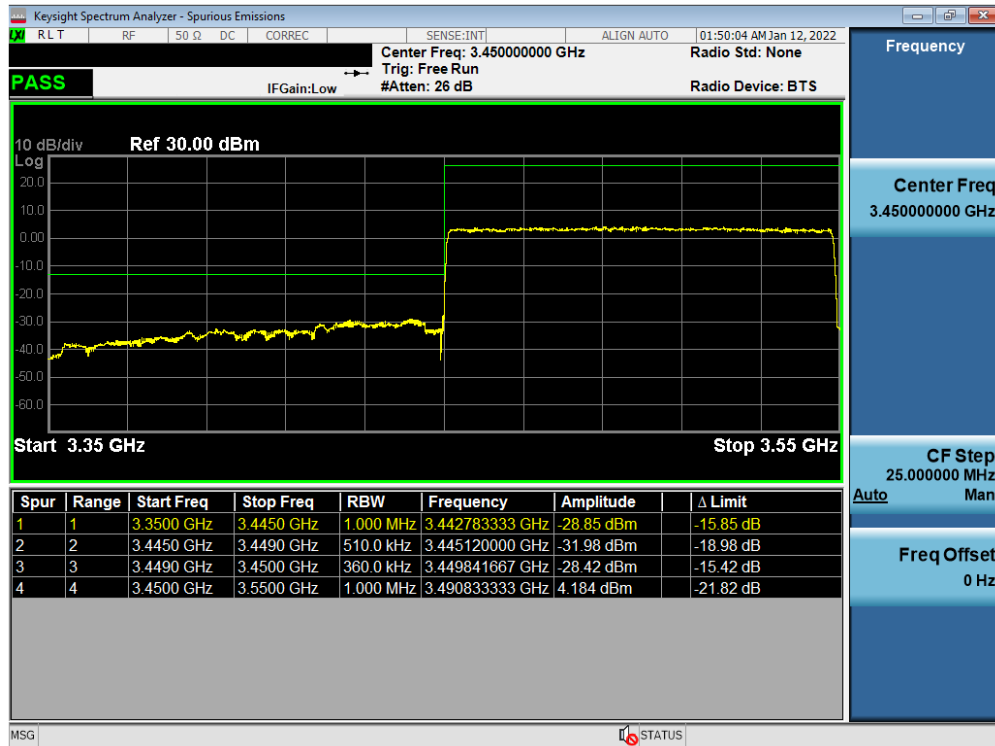
Plot 7-213. Lower ACP Plot (NR Band n77 DoD Band - 90MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



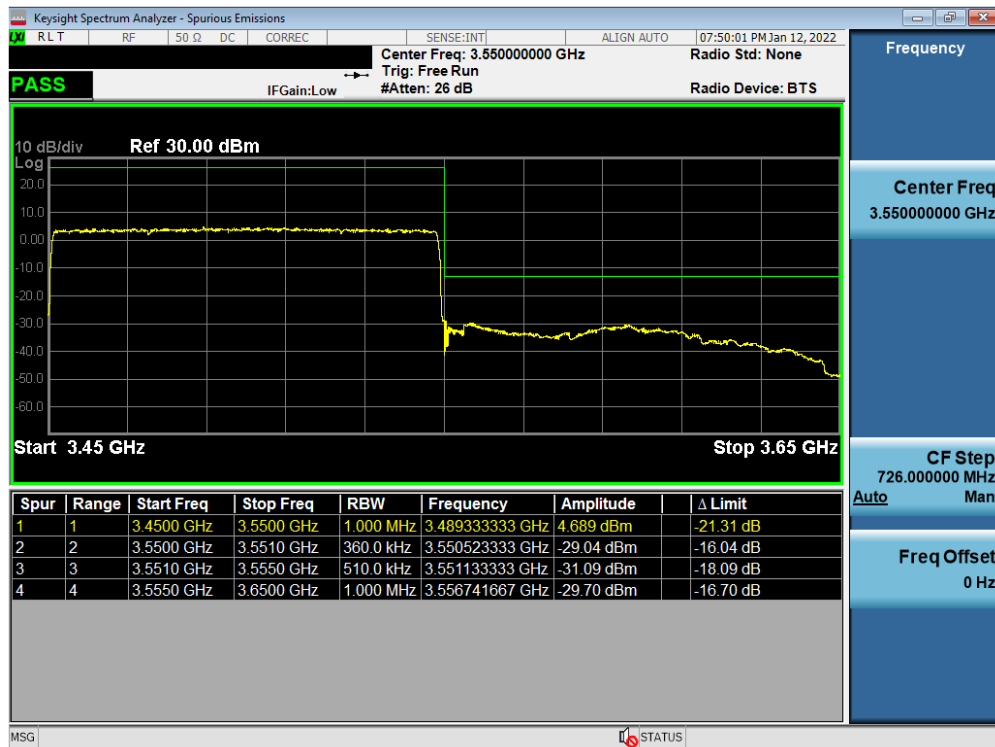
Plot 7-214. Upper ACP Plot (NR Band n77 DoD Band - 90MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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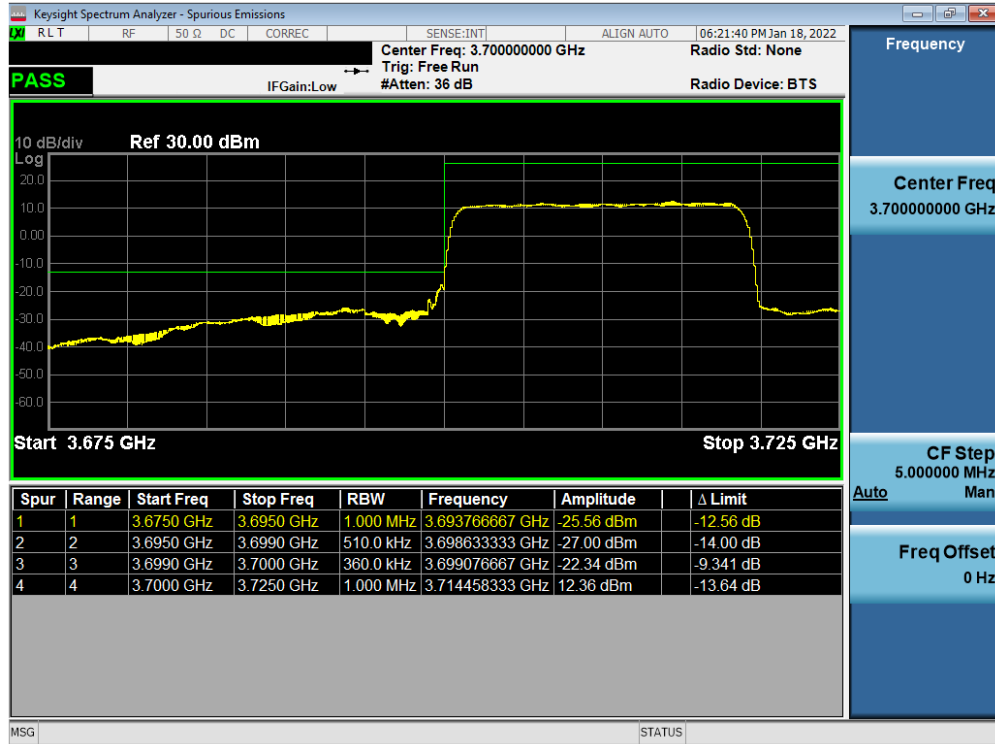
Plot 7-215. Lower ACP Plot (NR Band n77 DoD Band - 100MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)



Plot 7-216. Upper ACP Plot (NR Band n77 DoD Band - 100MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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## NR Band n77 C-Band

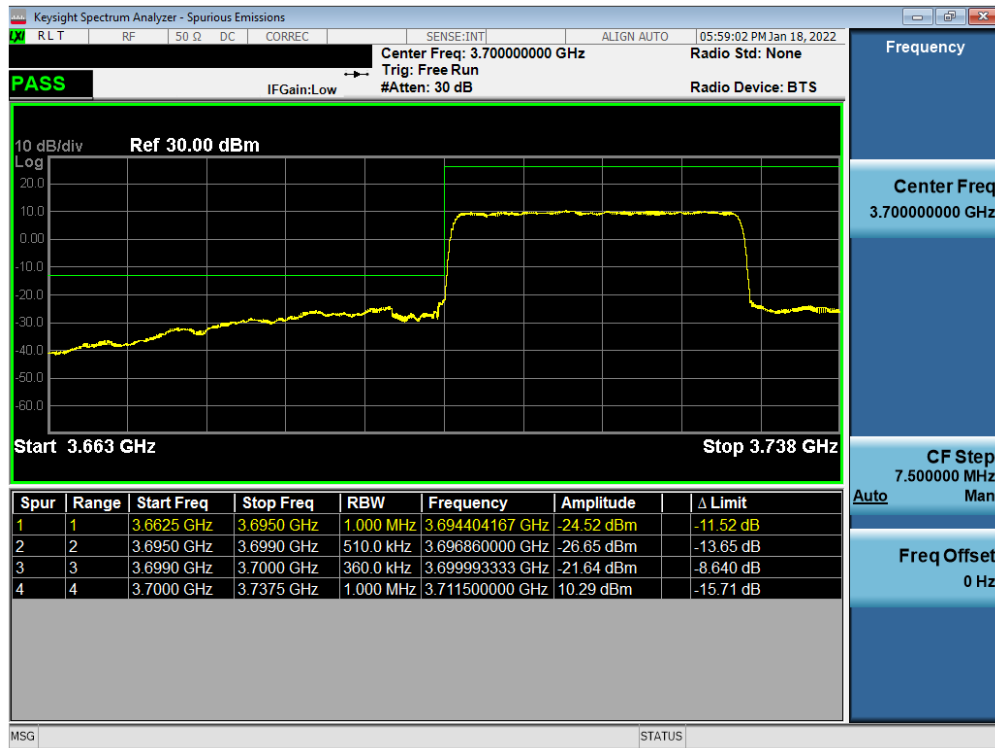


Plot 7-217. Lower ACP Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM QPSK– Full RB)

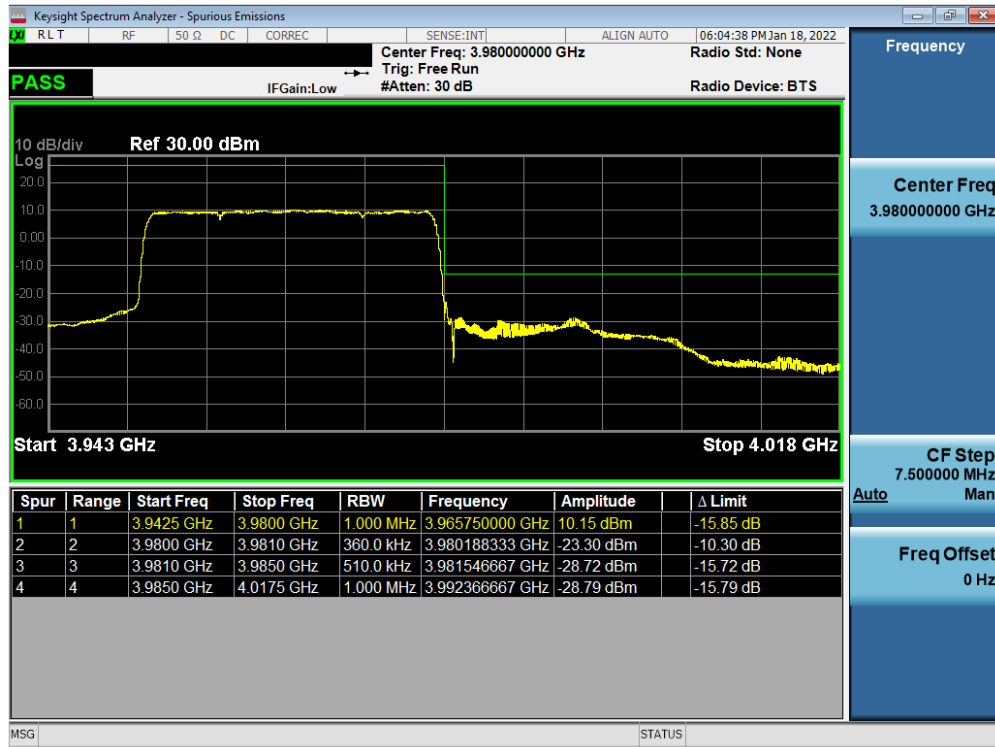


Plot 7-218. Upper ACP Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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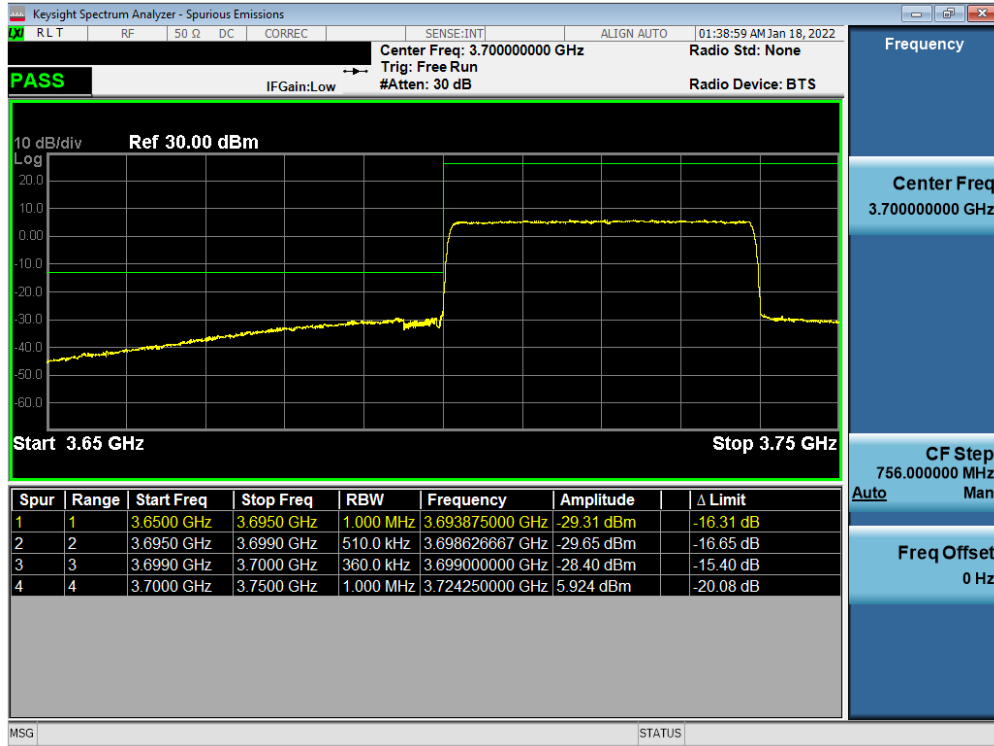


Plot 7-219. Lower ACP Plot (NR Band n77 C-Band - 30MHz DFT-s-OFDM QPSK- Full RB)

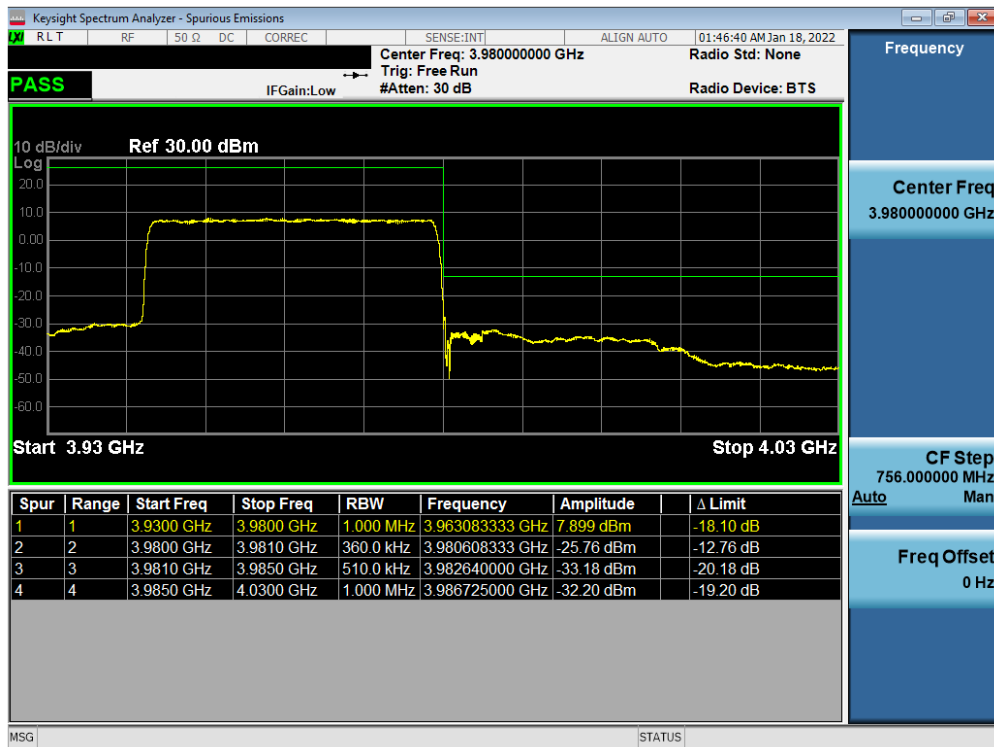


Plot 7-220. Upper ACP Plot (NR Band n77 C-Band - 30MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



FCC ID: BCGA2589	<b>PCTEST</b> Proud to be part of  element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-221. Lower ACP Plot (NR Band n77 C-Band - 40MHz CP-OFDM QPSK– Full RB)



Plot 7-222. Upper ACP Plot (NR Band n77 C-Band - 40MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB)

FCC ID: BCGA2589	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-05.BCG	Test Dates: 11/29/2021 – 2/7/2022	EUT Type: Tablet Device	Page 134 of 174