

Plot 7-114. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-115. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 73 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 73 of 238



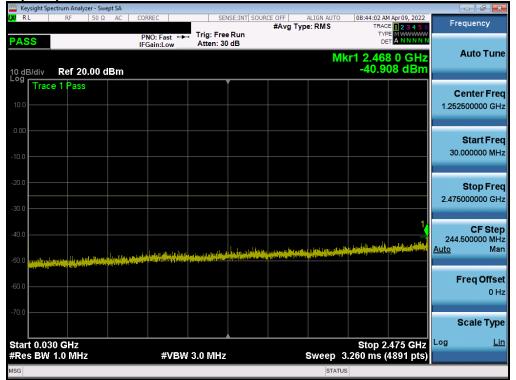


Plot 7-116. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

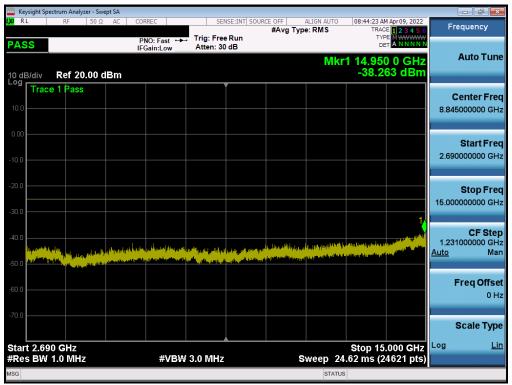
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 74 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 74 01 230



## LTE Band 41(PC2)



Plot 7-117. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



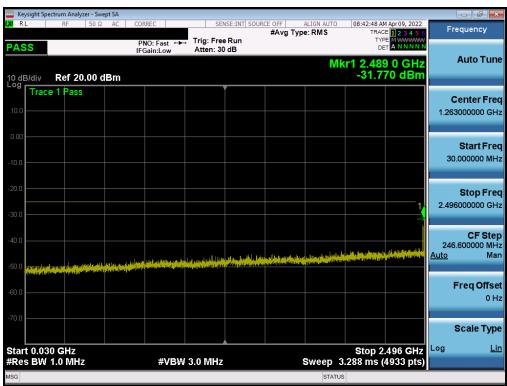
Plot 7-118. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 75 of 229
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 75 of 238





Plot 7-119. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-120. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 76 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 70 01 230





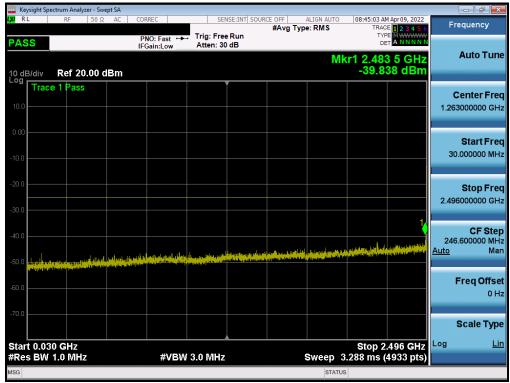
Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



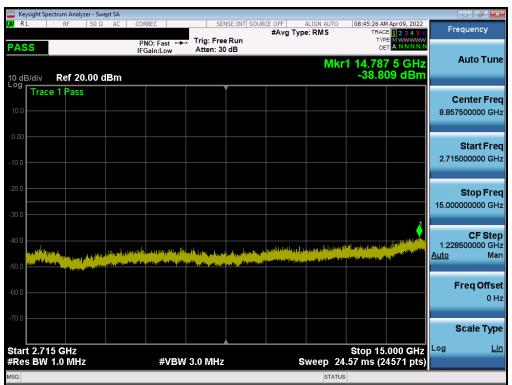
Plot 7-122. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 77 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 11 01 230





Plot 7-123. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-124. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 78 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 76 01 236



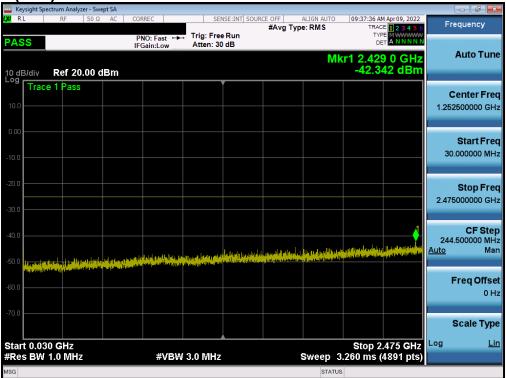


Plot 7-125. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

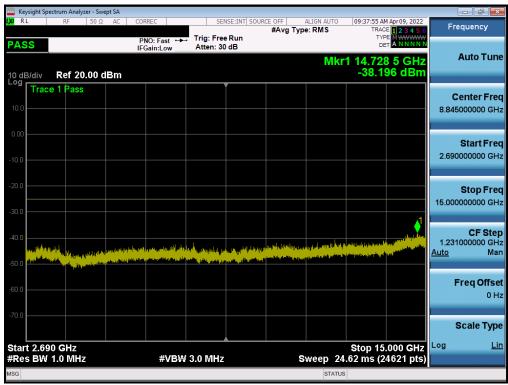
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 79 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	raye 19 01 230



## LTE Band 41(PC3)/38



Plot 7-126. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-127. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 80 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage ou ul 230





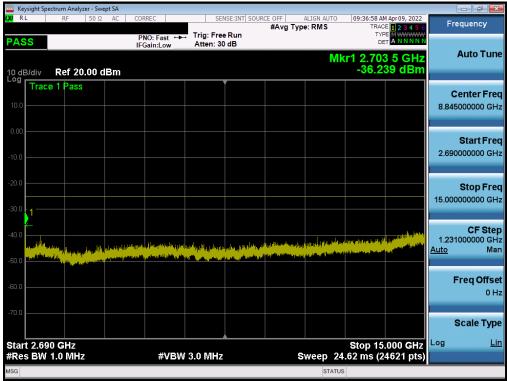
Plot 7-128. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



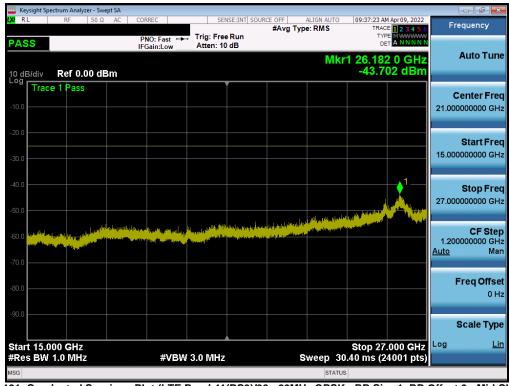
Plot 7-129. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 81 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page of 01 230





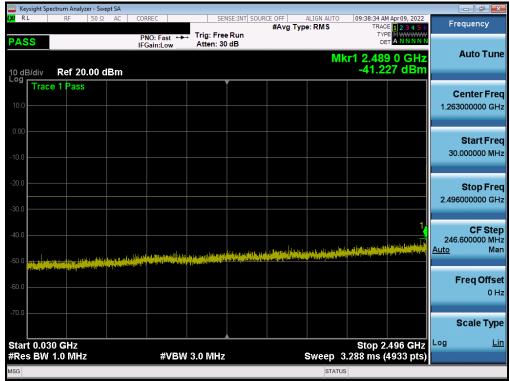
Plot 7-130. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



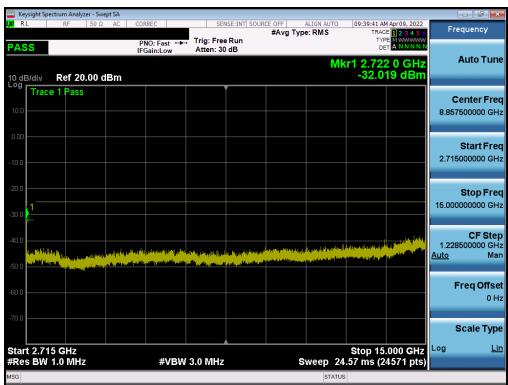
Plot 7-131. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 82 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 02 01 230





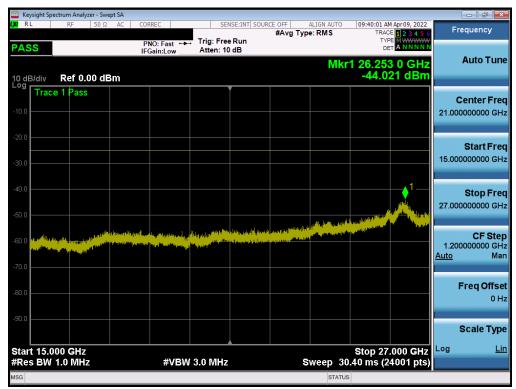
Plot 7-132. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-133. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 83 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage os ul 230





Plot 7-134. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 84 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 64 01 236



#### NR Band n30 ANT B



Plot 7-135. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-136. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 85 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage of the 250





Plot 7-137. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 86 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage of the 236



### NR Band n7 ANT B



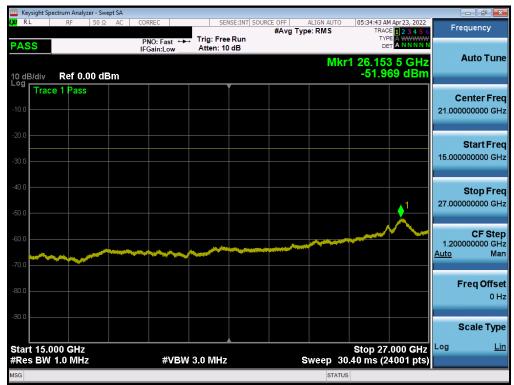
Plot 7-138. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-139. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 87 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 67 01 236





Plot 7-140. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



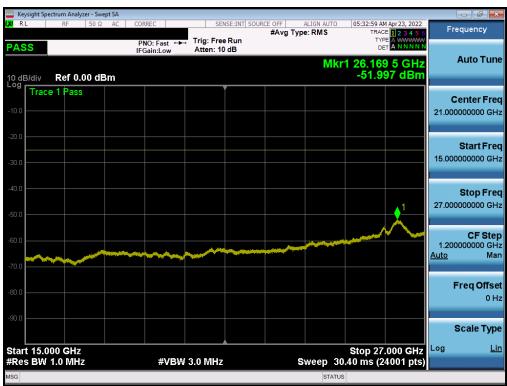
Plot 7-141. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 88 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage oo ui 230





Plot 7-142. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-143. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 69 01 236





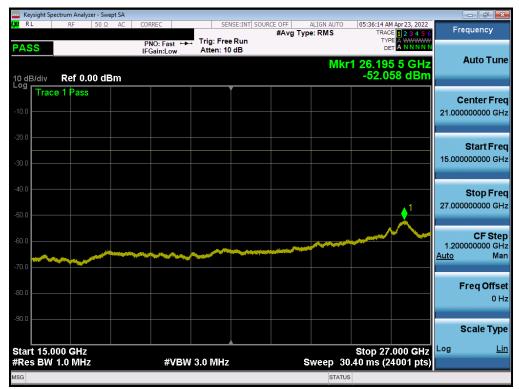
Plot 7-144. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-145. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 90 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 90 01 236





Plot 7-146. Conducted Spurious Plot (NR Band n7 - 40MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

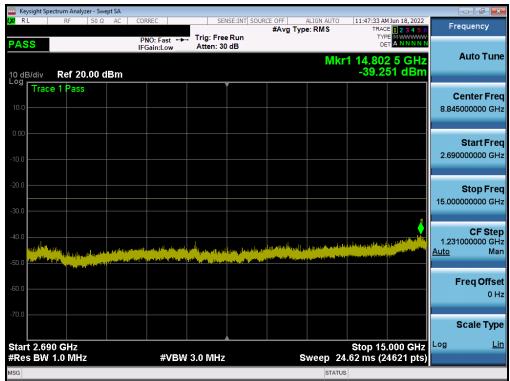
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 01 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 91 of 238



#### NR Band n41 ANT I



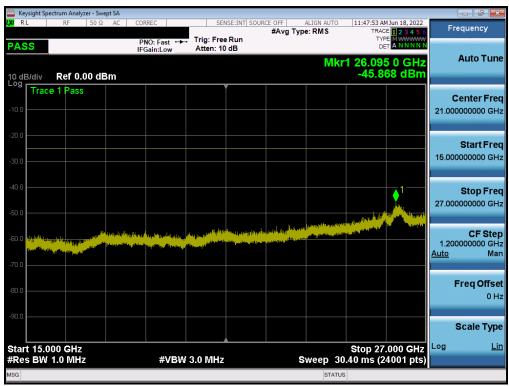
Plot 7-147. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-148. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 92 01 230





Plot 7-149. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-150. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 93 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 93 01 236





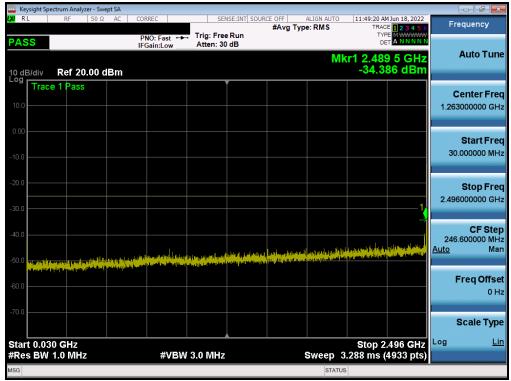
Plot 7-151. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



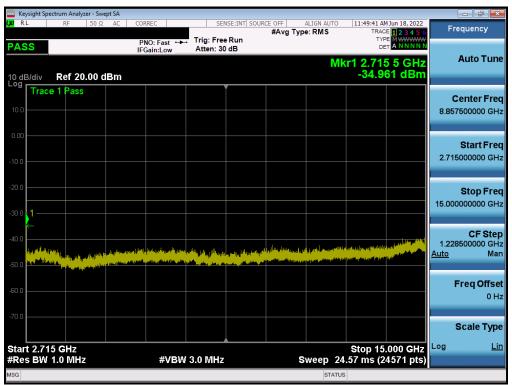
Plot 7-152. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 94 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 94 01 230





Plot 7-153. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-154. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 95 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage 95 01 256



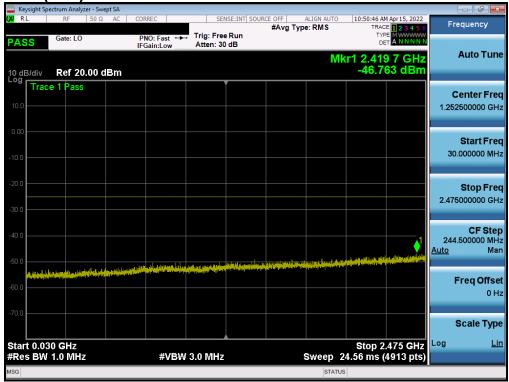


Plot 7-155. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

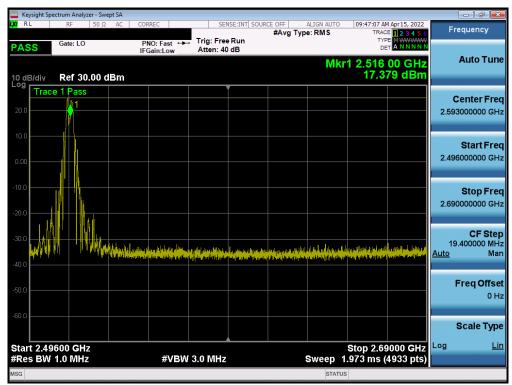
FCC ID: A3LSMF721U		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 90 01 236



# ULCA - LTE B41(PC2)



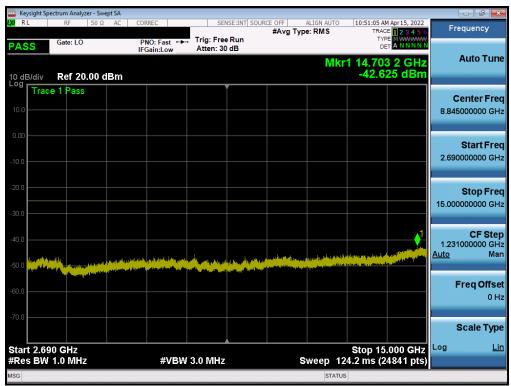
Plot 7-156. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-157. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 07 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 97 of 238





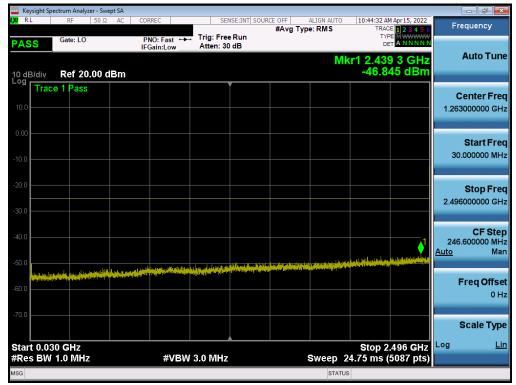
Plot 7-158. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



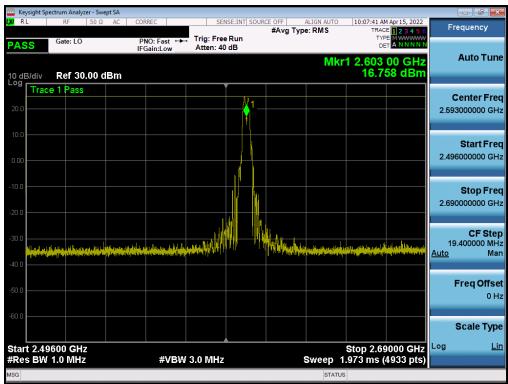
Plot 7-159. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 98 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	raye 30 01 230





Plot 7-160. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-161. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 99 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 99 01 230





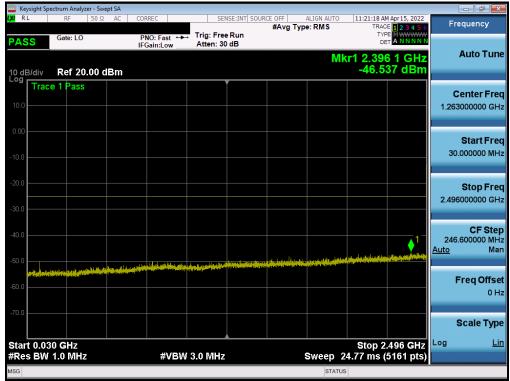
Plot 7-162. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



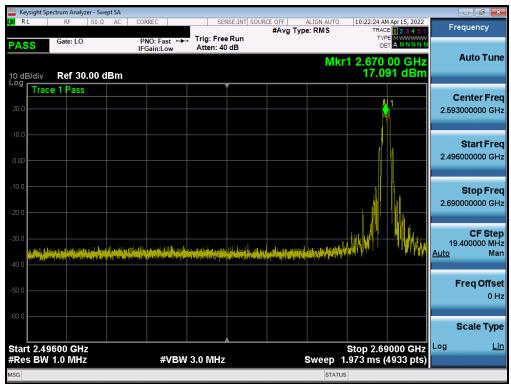
Plot 7-163. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 100 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 100 of 238





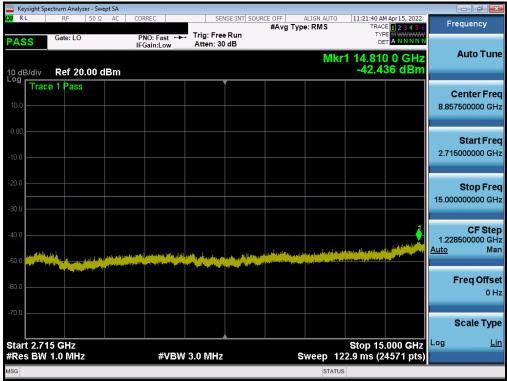
Plot 7-164. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-165. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 101 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage 101 01 236





Plot 7-166. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-167. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 102 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 102 01 236



# NR Band n30 - Ant I



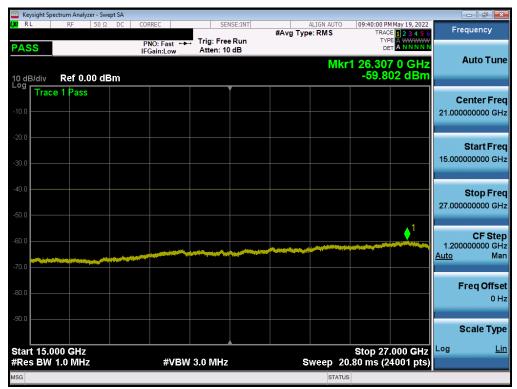
Plot 7-168. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-169. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 103 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 103 01 236



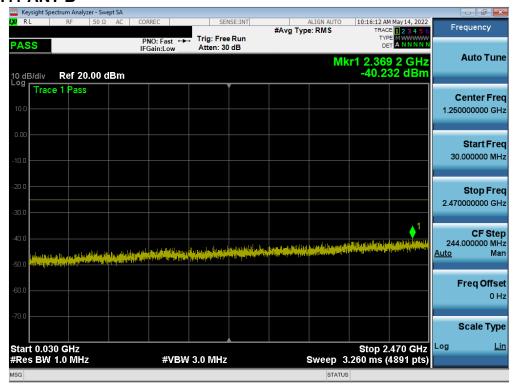


Plot 7-170. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0)

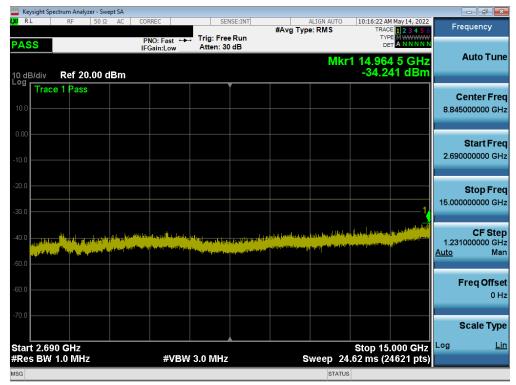
FCC ID: A3LSMF721U		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 104 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 104 01 236



#### NR Band n41 ANT B



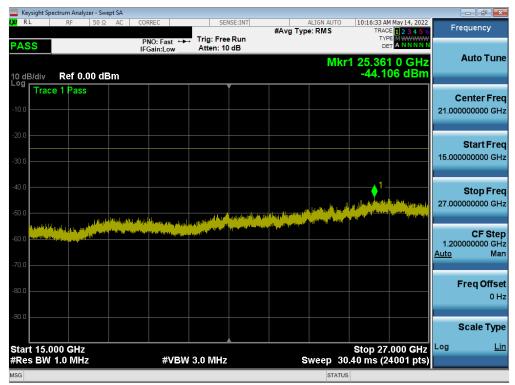
Plot 7-171. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



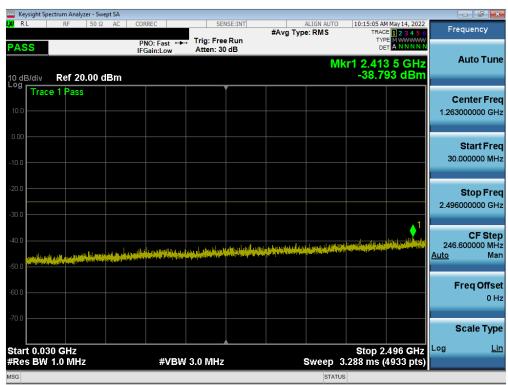
Plot 7-172. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 105 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 105 of 238





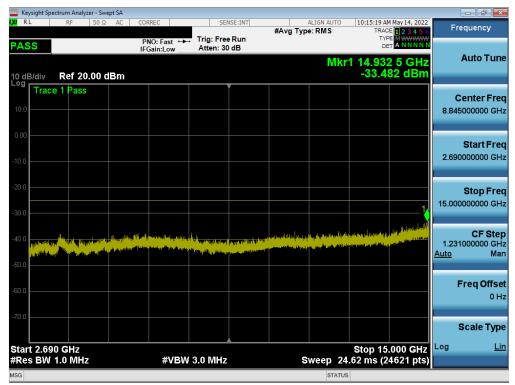
Plot 7-173. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



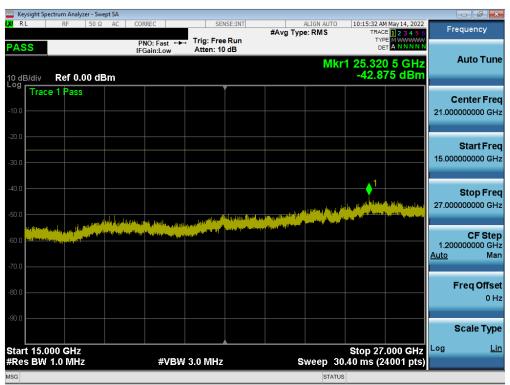
Plot 7-174. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 106 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 106 of 238





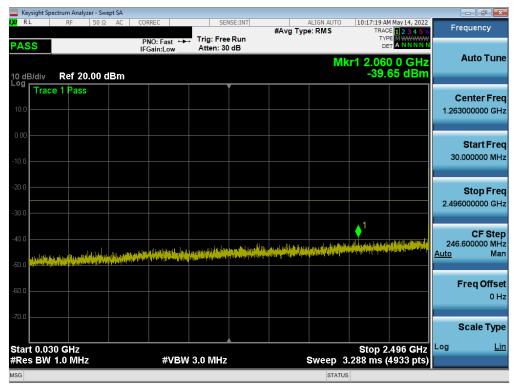
Plot 7-175. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



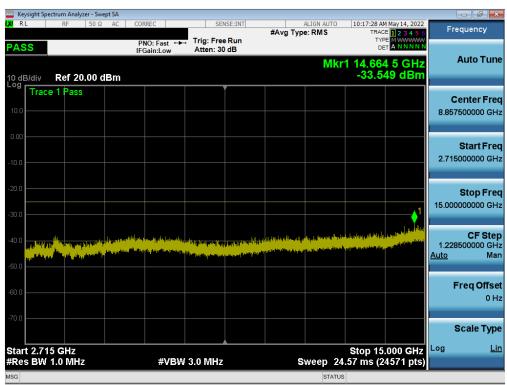
Plot 7-176. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 107 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 107 of 238





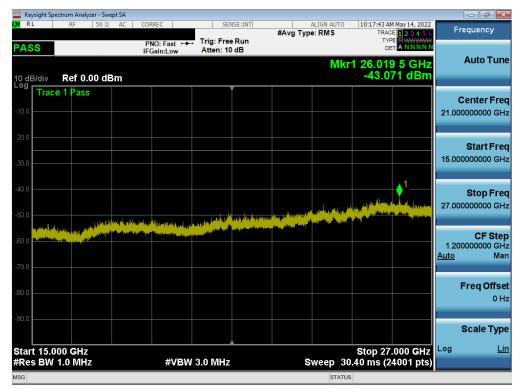
Plot 7-177. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-178. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 108 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 100 01 230



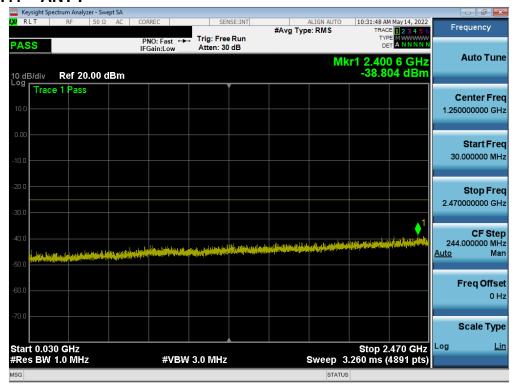


Plot 7-179. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

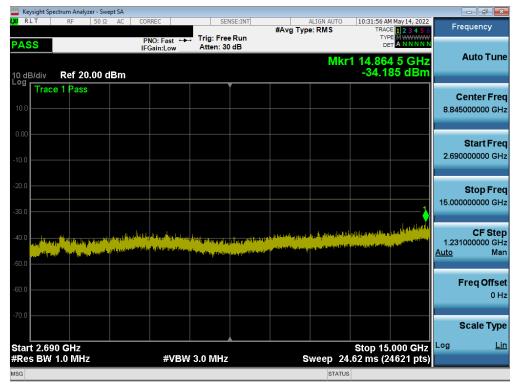
FCC ID: A3LSMF721U		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 109 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 109 01 236



## NR Band n41 - ANT F



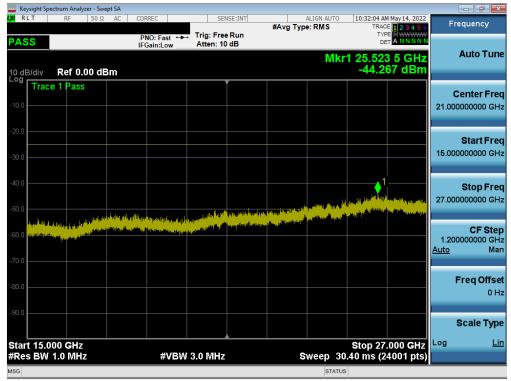
Plot 7-180. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



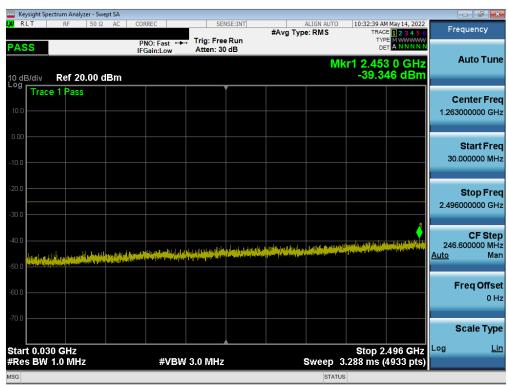
Plot 7-181. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 110 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage 110 01 236





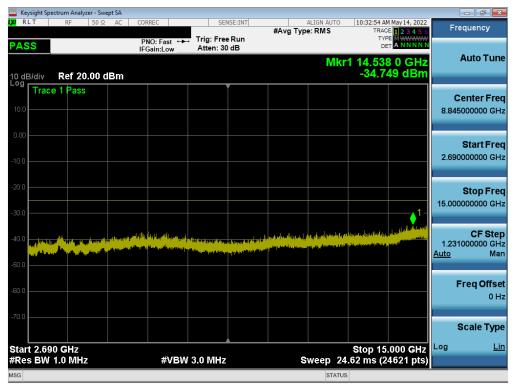
Plot 7-182. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



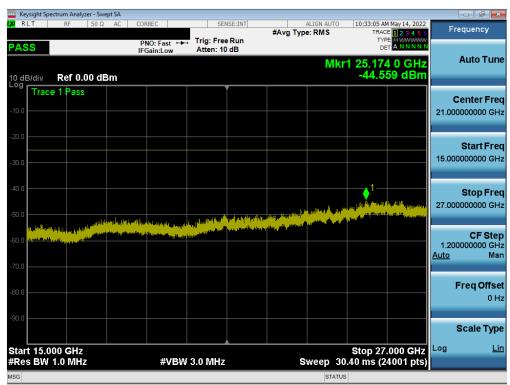
Plot 7-183. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 111 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage 111 01 236





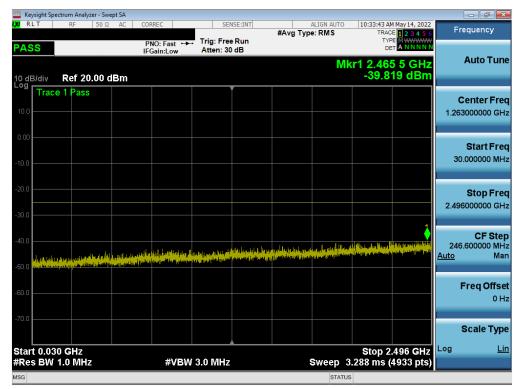
Plot 7-184. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



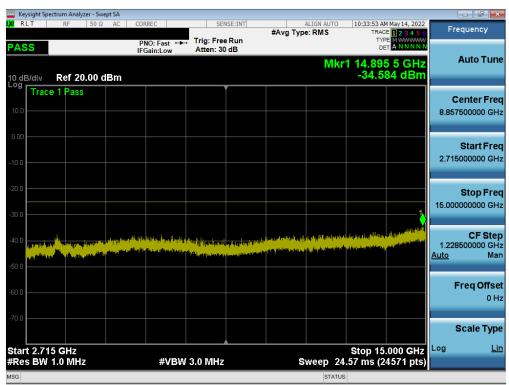
Plot 7-185. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 112 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 112 01 236





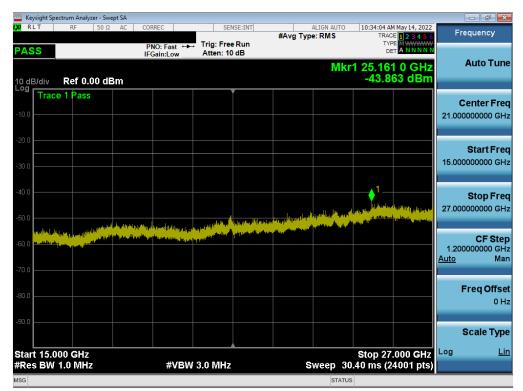
Plot 7-186. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-187. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 113 of 239
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 113 of 238



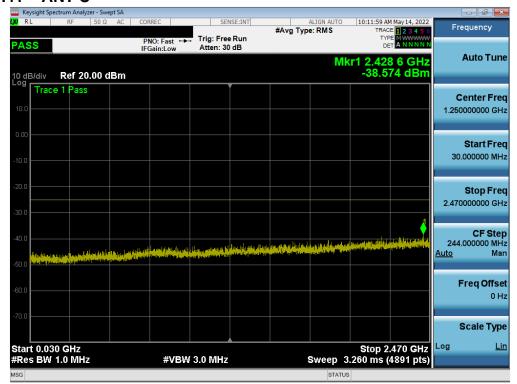


Plot 7-188. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

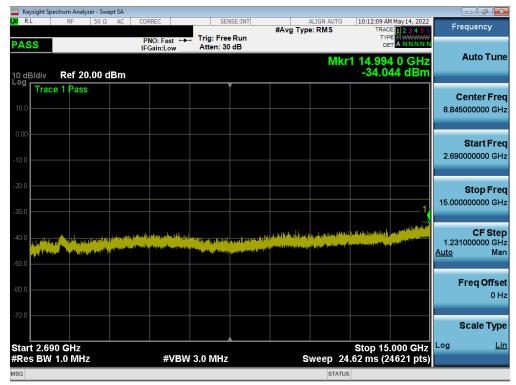
FCC ID: A3LSMF721U		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 114 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 114 01 236



## NR Band n41 - ANT C



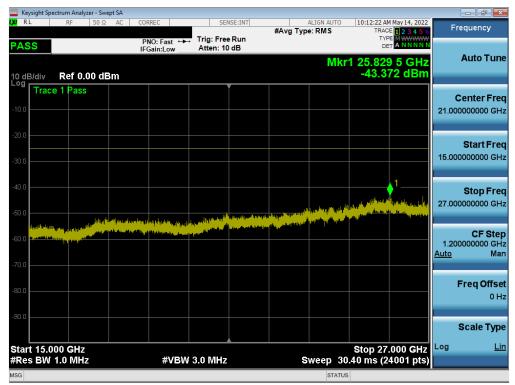
Plot 7-189. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



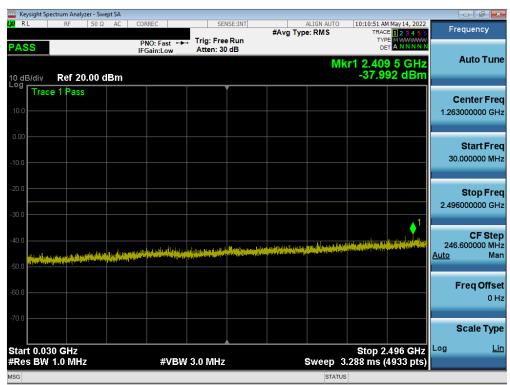
Plot 7-190. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 115 of 229
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 115 of 238





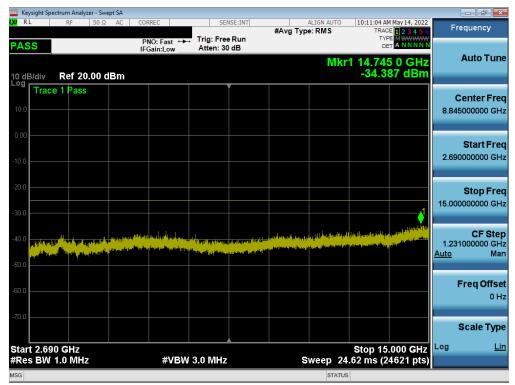
Plot 7-191. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



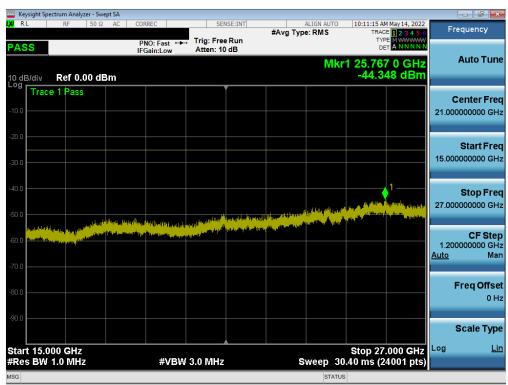
Plot 7-192. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 116 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 110 01 230





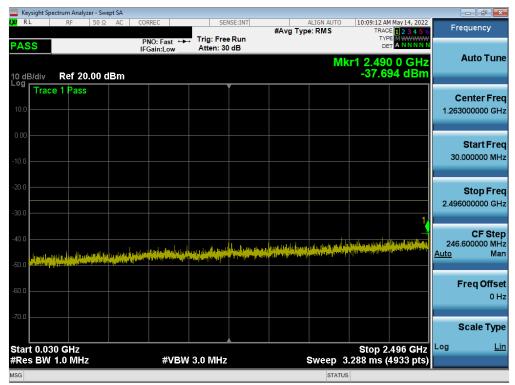
Plot 7-193. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



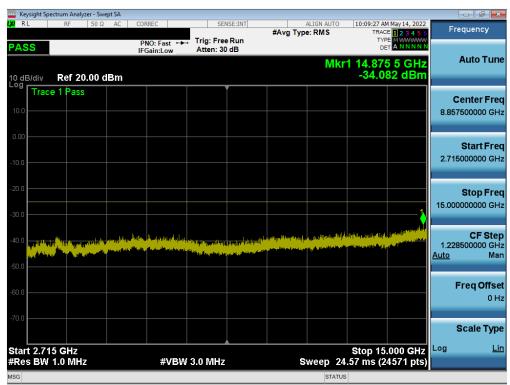
Plot 7-194. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 117 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 117 01 236





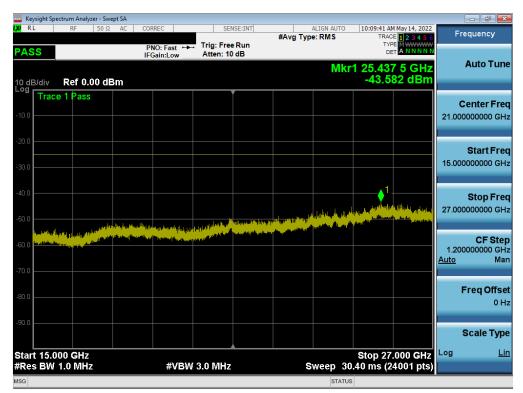
Plot 7-195. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-196. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 118 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	rage 110 01 236





Plot 7-197. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 119 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 119 01 230



## 7.5 Band Edge Emissions at Antenna Terminal

#### **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.

The minimum permissible attenuation level for Band 30 is  $> 43 + 10 \log 10$  (P[Watts] at 2300-2305MHz & 2345-2360MHz,  $> 55 + 10 \log 10$  (P[Watts]) at 2320-2324MHz & 2341-2345MHz,  $> 61 + 10 \log 10$  (P[Watts]) at 2324-2328MHz & 2337-2341MHz,  $> 67 + 10 \log 10$  (P[Watts]) at 2288-2292MHz & 2328-2337MHz, and  $> 70 + 10 \log 10$  (P[Watts]) at frequencies < 2288MHz & > 2365MHz.

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

#### **Test Procedure Used**

ANSI C63.26-2015 - Section 5.7.3

### **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 > 1% of the emission bandwidth
- 4.  $VBW \ge 3 \times RBW$
- 5. Detector = RMS
- Number of sweep points ≥ 2 x 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: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 120 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 120 01 230



#### **Test Notes**

- 1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). 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 emissions are attenuated at least 26 dB below the transmitter power.
- 2. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.
- 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.

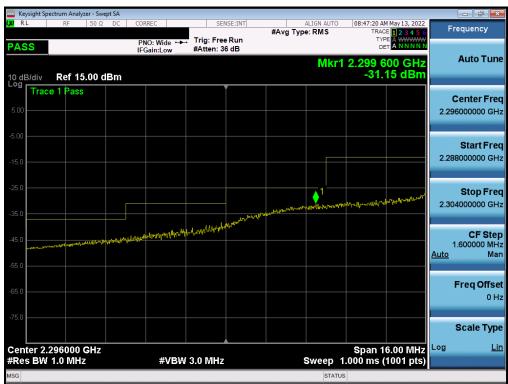
FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 121 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 121 01 236



### LTE Band 30



Plot 7-198. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK - Full RB)



Plot 7-199. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 122 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 122 01 230





Plot 7-200. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK - Full RB)



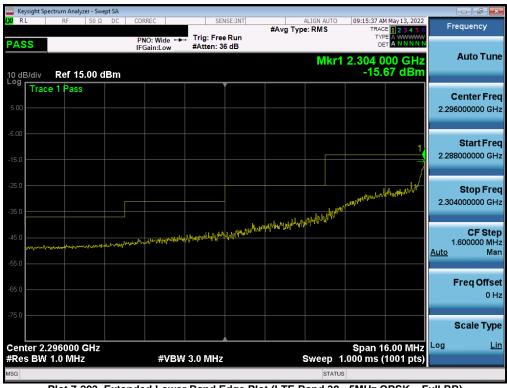
Plot 7-201. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 123 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 123 01 230





Plot 7-202. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB)



Plot 7-203. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 124 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 124 01 236





Plot 7-204. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB)

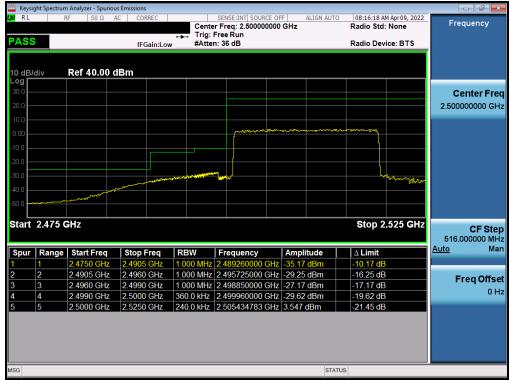


Plot 7-205. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 125 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 123 01 230



## LTE Band 7



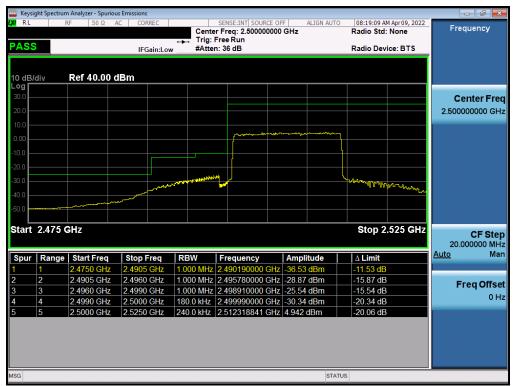
Plot 7-206. Lower ACP Plot (LTE Band 7 - 20MHz QPSK - Full RB)



Plot 7-207. Upper ACP Plot (LTE Band 7 - 20MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 126 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 120 01 230





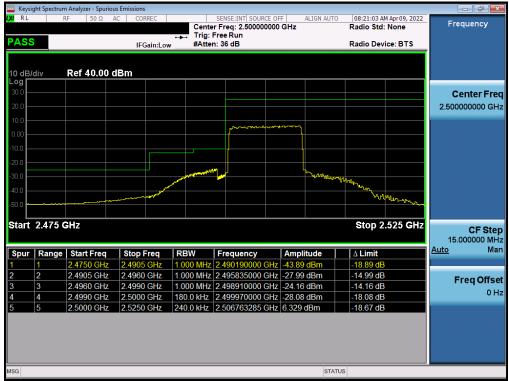
Plot 7-208. Lower ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)



Plot 7-209. Upper ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 127 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 127 01 236





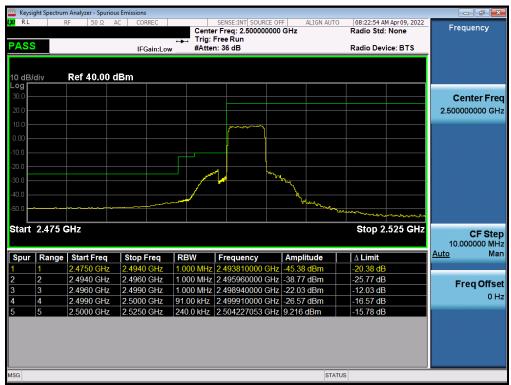
Plot 7-210. Lower ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)



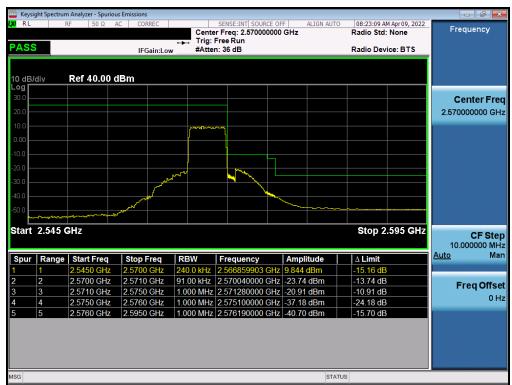
Plot 7-211. Upper ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 128 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 120 01 230





Plot 7-212. Lower ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)

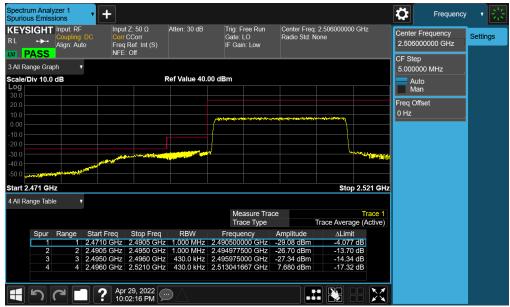


Plot 7-213. Upper ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 129 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 129 01 230



## LTE Band 41(PC2)



Plot 7-214. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK - Full RB)



Plot 7-215. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 120 of 229
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Page 130 of 238





Plot 7-216. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK - Full RB)



Plot 7-217. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 131 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Fage 131 01 230





Plot 7-218. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)



Plot 7-219. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates: EUT Type:		Page 132 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	Faye 132 01 230





Plot 7-220. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK - Full RB)

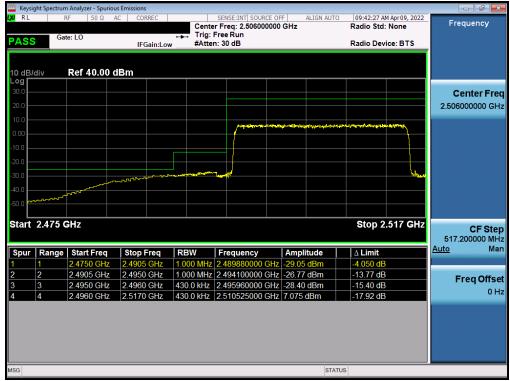


Plot 7-221. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 133 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	



# LTE Band 41(PC3)



Plot 7-222. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB)



Plot 7-223. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB)

FCC ID: A3LSMF721U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 134 of 238
1M2204080051-05.A3L	4/8/2022 - 6/30/2022	Portable Handset	