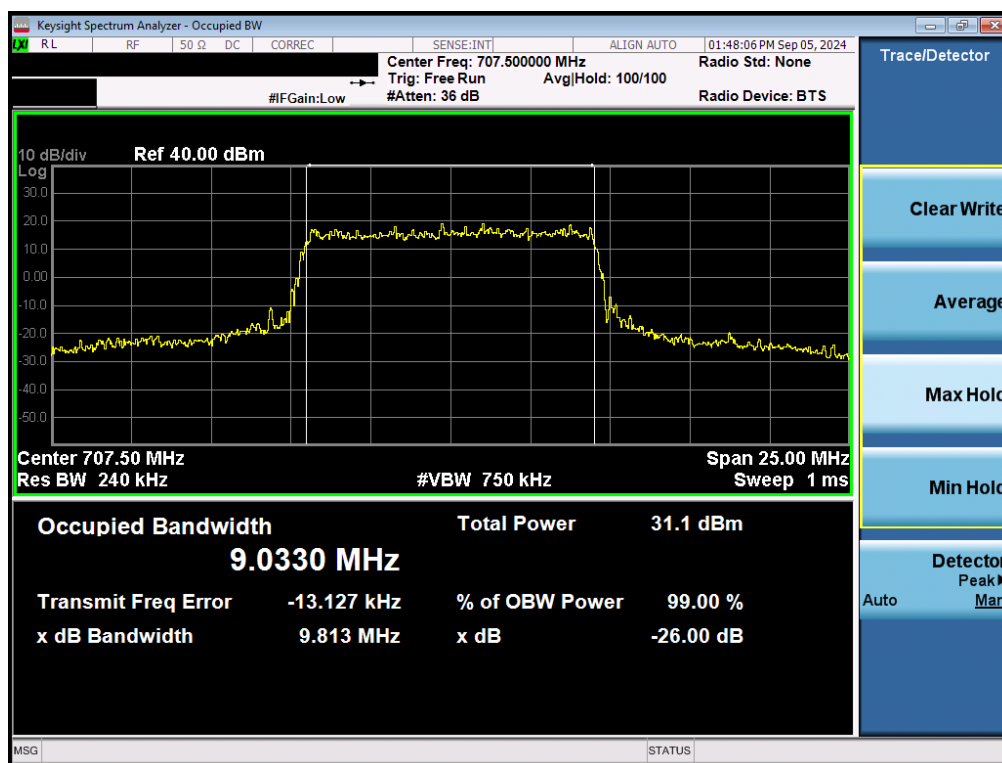
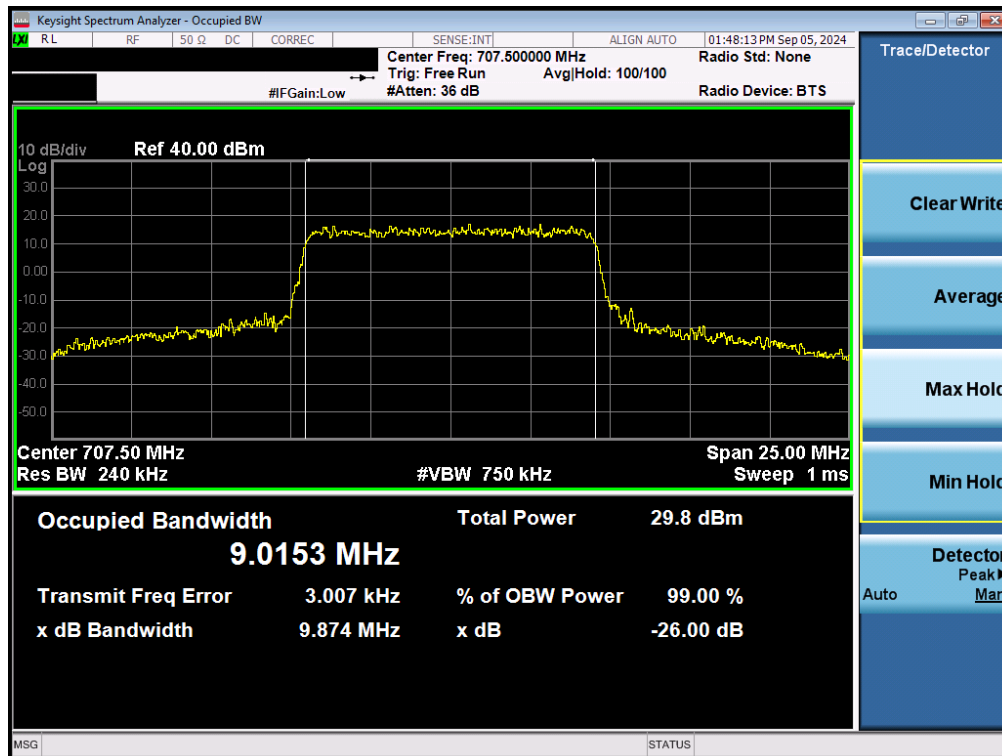


LTE Band 12 – ANT2

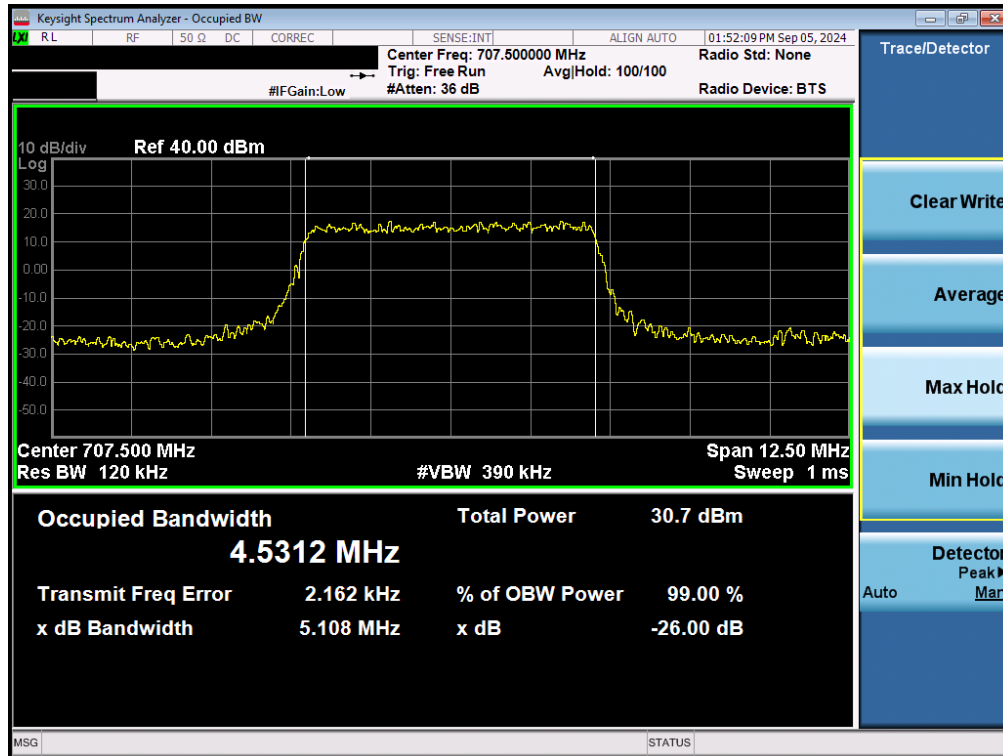


Plot 7-108. Occupied Bandwidth Plot (LTE Band 12 - 10MHz QPSK - Full RB – ANT2)



Plot 7-109. Occupied Bandwidth Plot (LTE Band 12 - 10MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 77 of 276

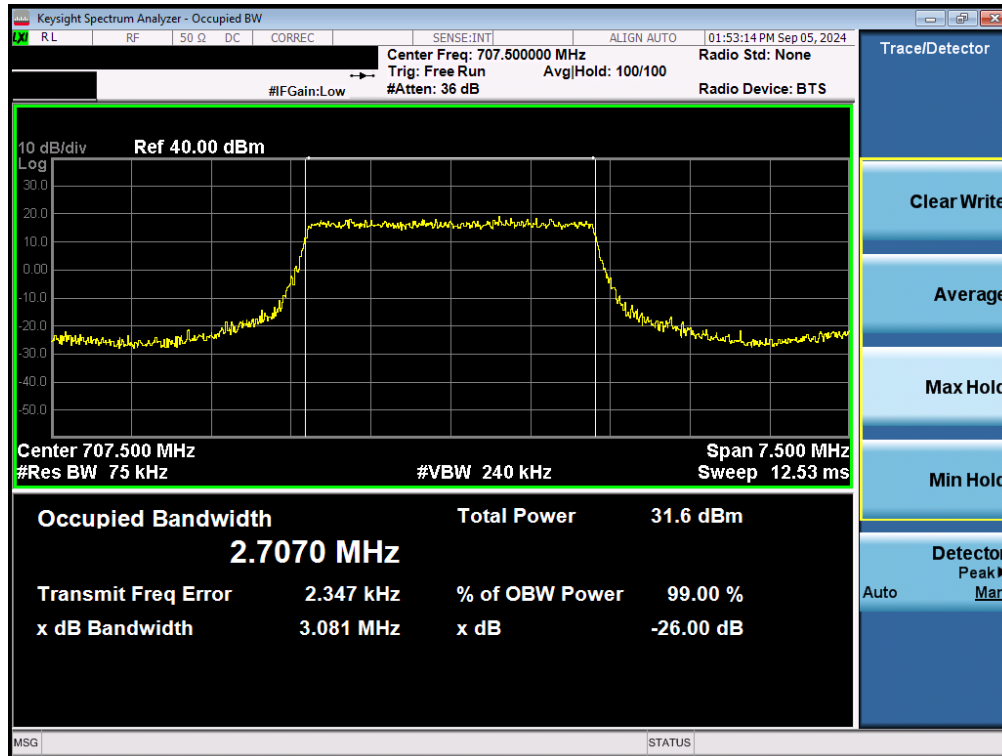


Plot 7-110. Occupied Bandwidth Plot (LTE Band 12 - 5MHz QPSK - Full RB – ANT2)

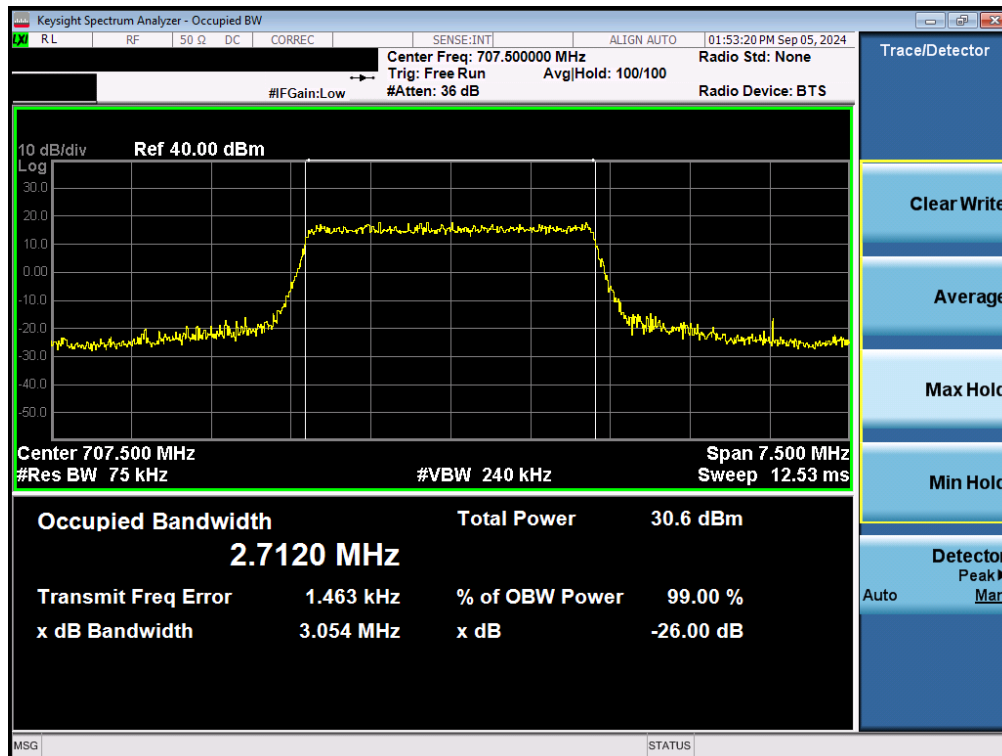


Plot 7-111. Occupied Bandwidth Plot (LTE Band 12 - 5MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 78 of 276

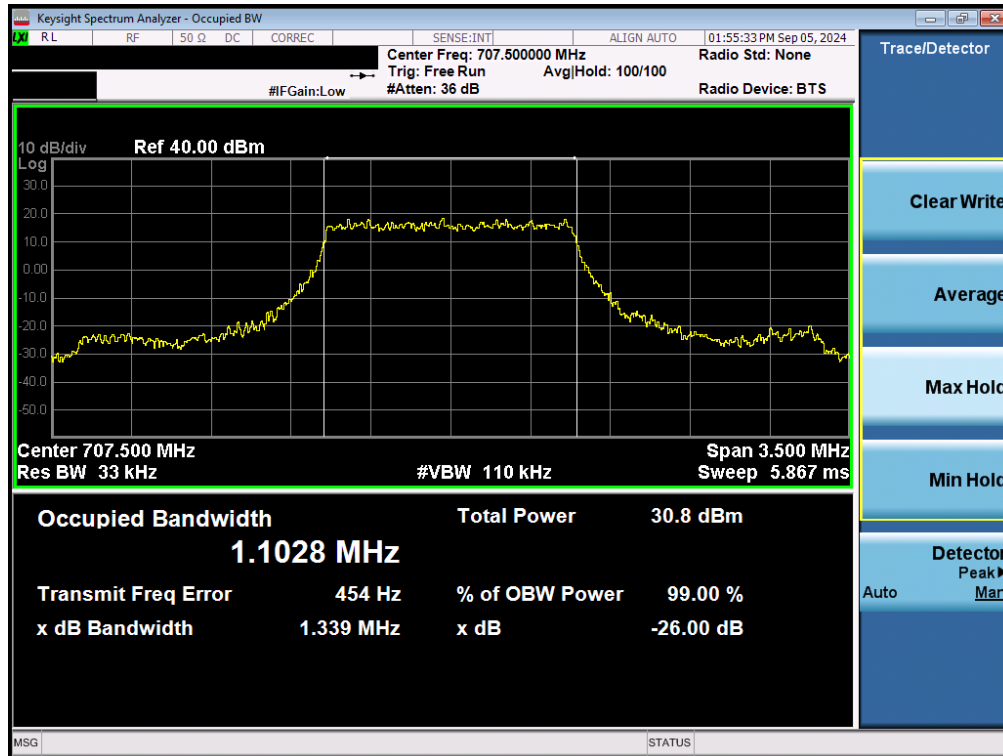


Plot 7-112. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB – ANT2)

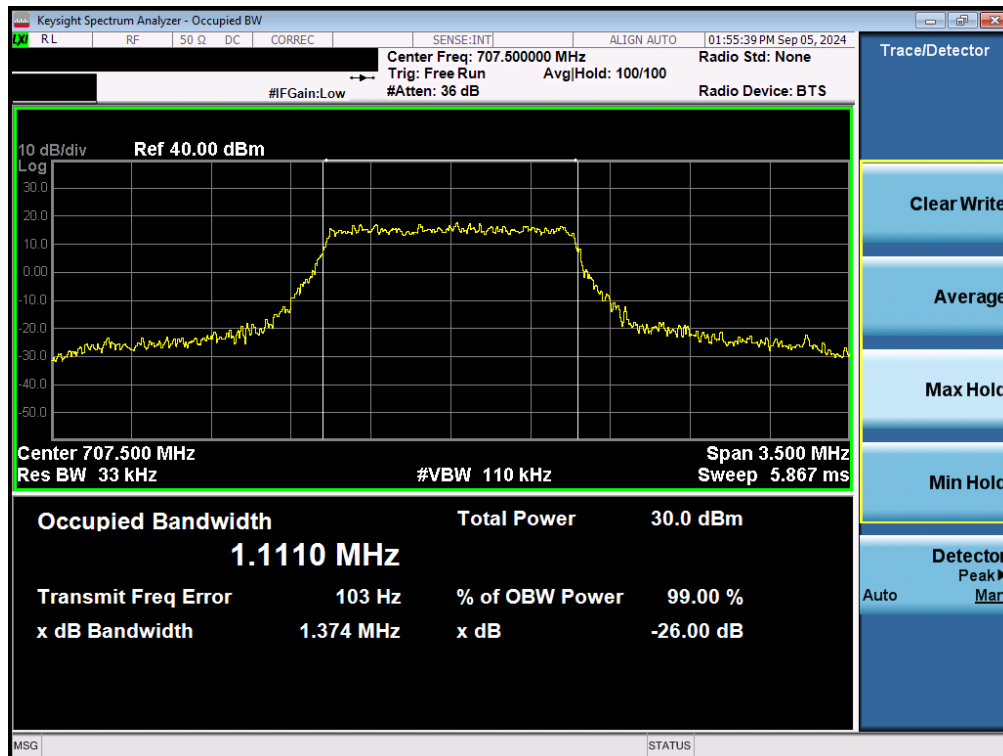


Plot 7-113. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 79 of 276



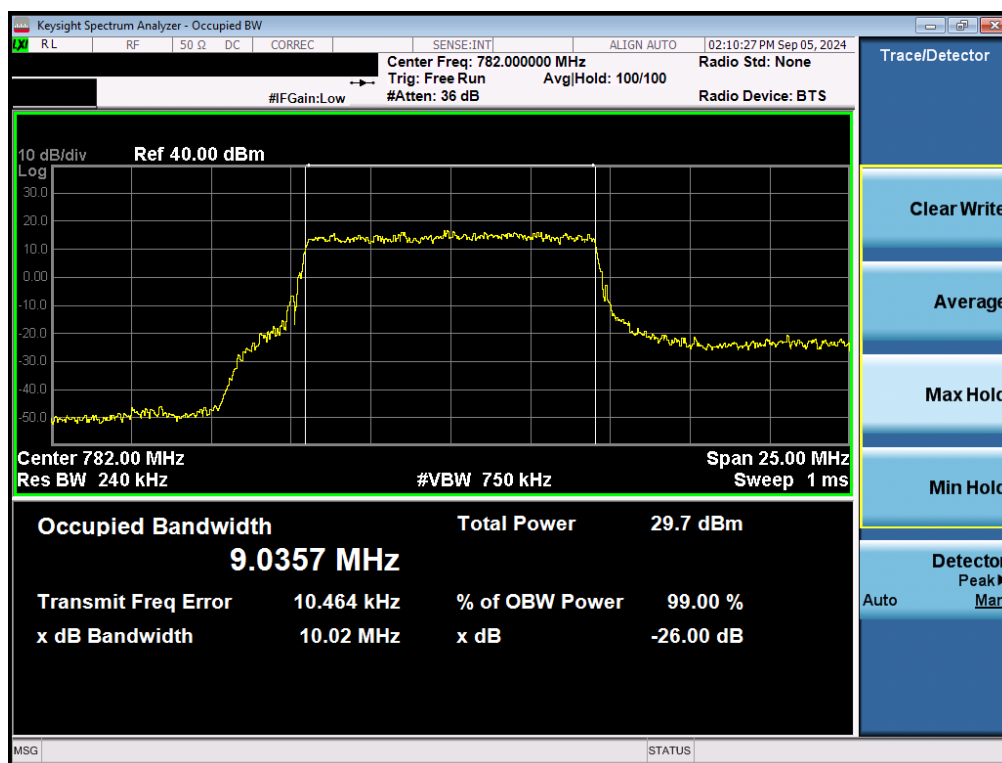
Plot 7-114. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB – ANT2)



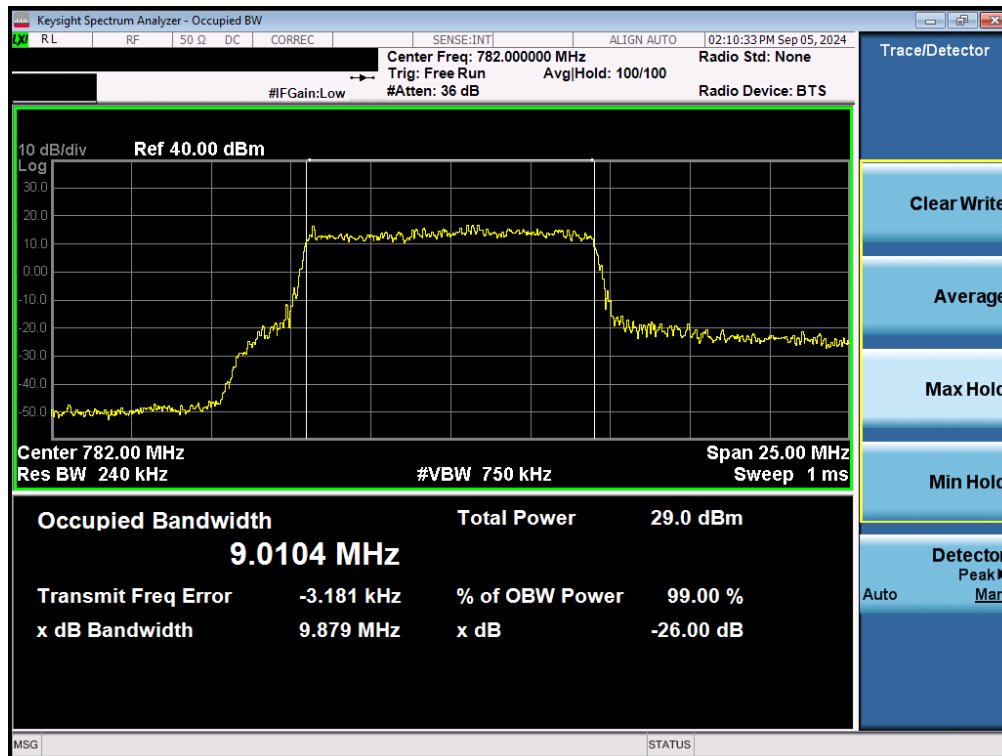
Plot 7-115. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 80 of 276

LTE Band 13 – ANT2

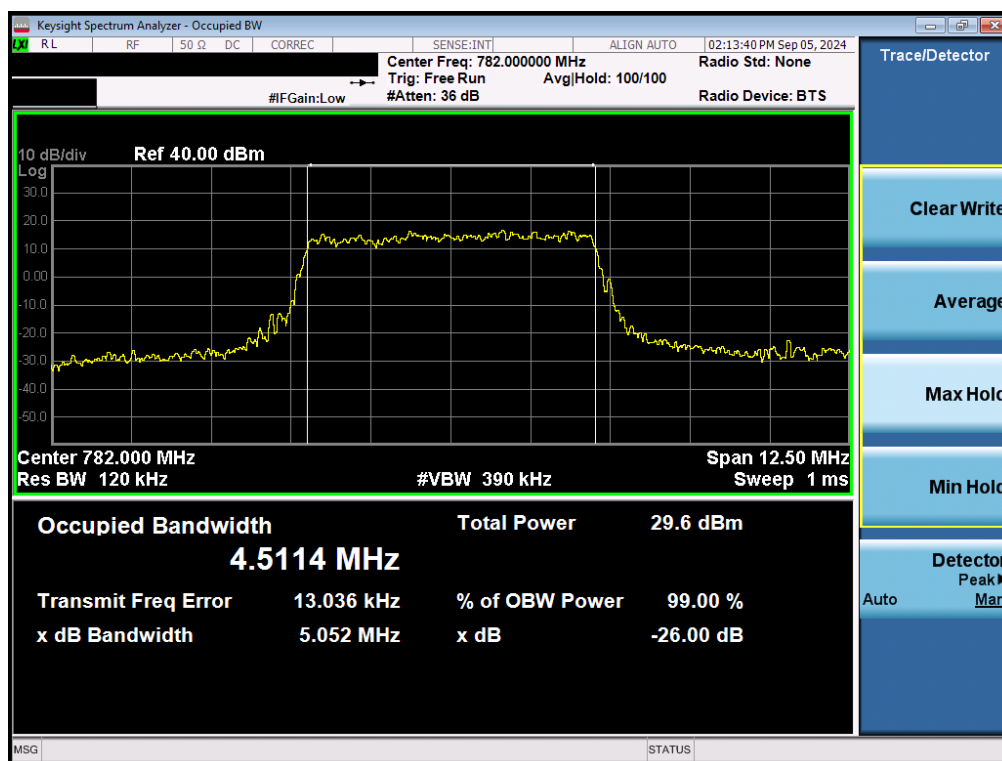


Plot 7-116. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB – ANT2)

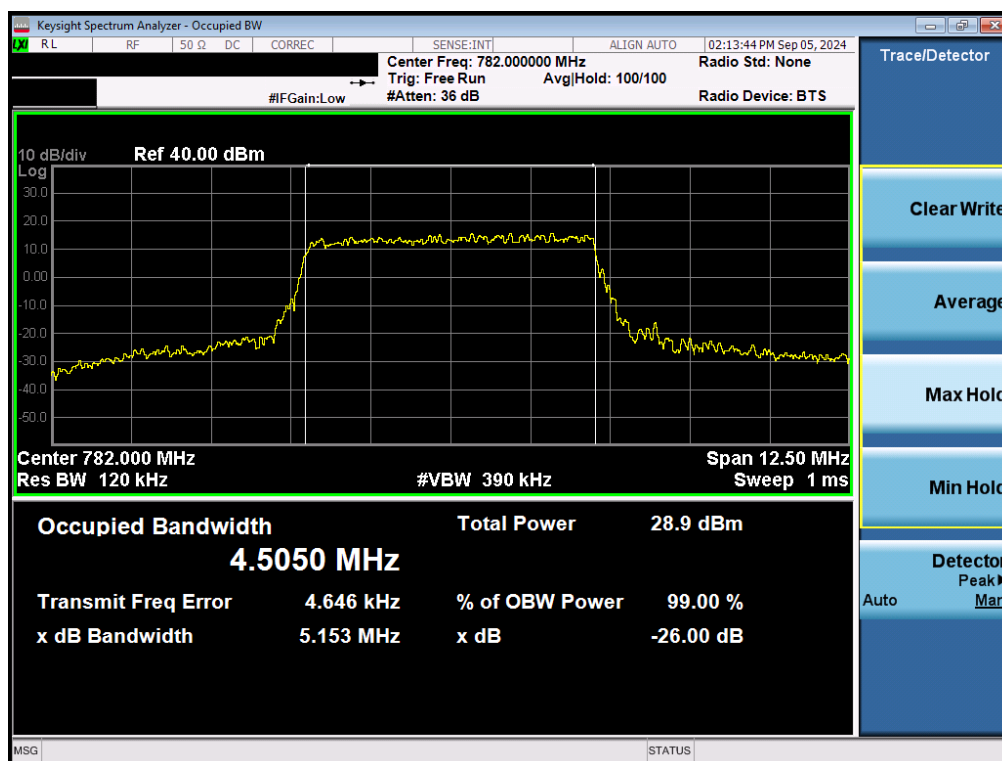


Plot 7-117. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 81 of 276



Plot 7-118. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB – ANT2)



Plot 7-119. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 82 of 276



LTE Band 66/4 - ANT2

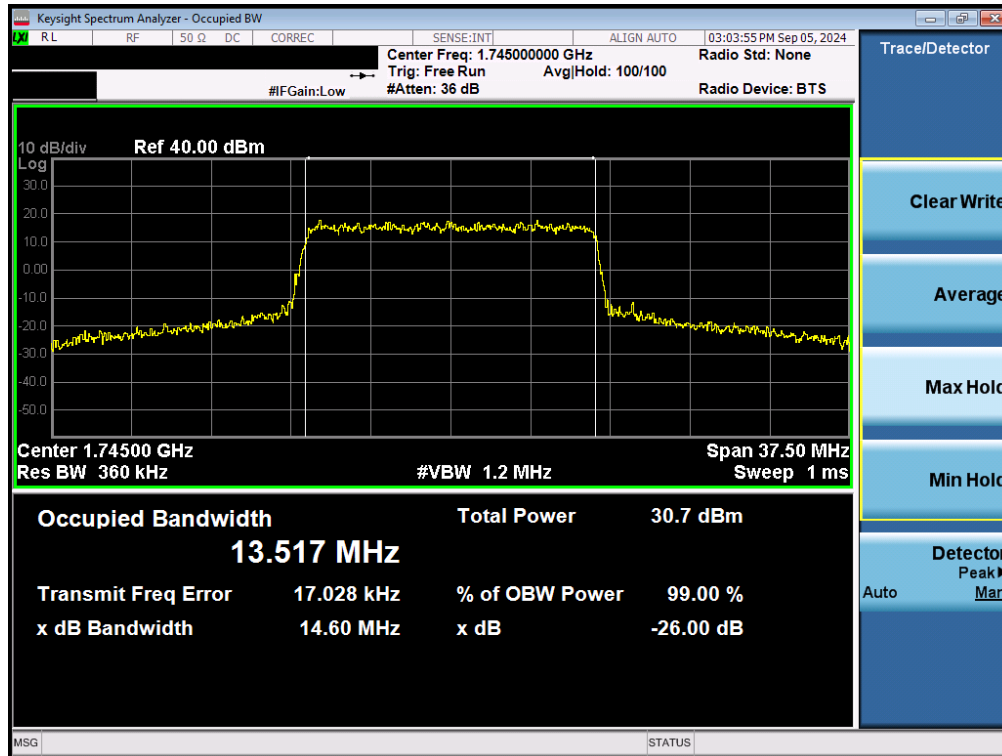


Plot 7-120. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)

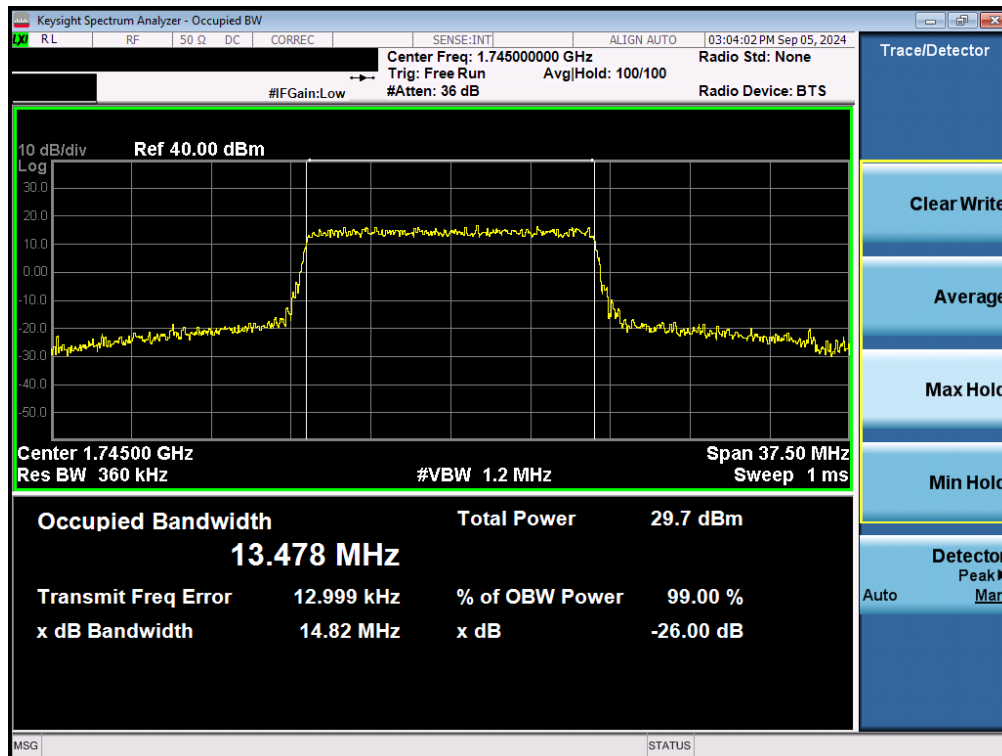


Plot 7-121. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 83 of 276



Plot 7-122. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - ANT2)

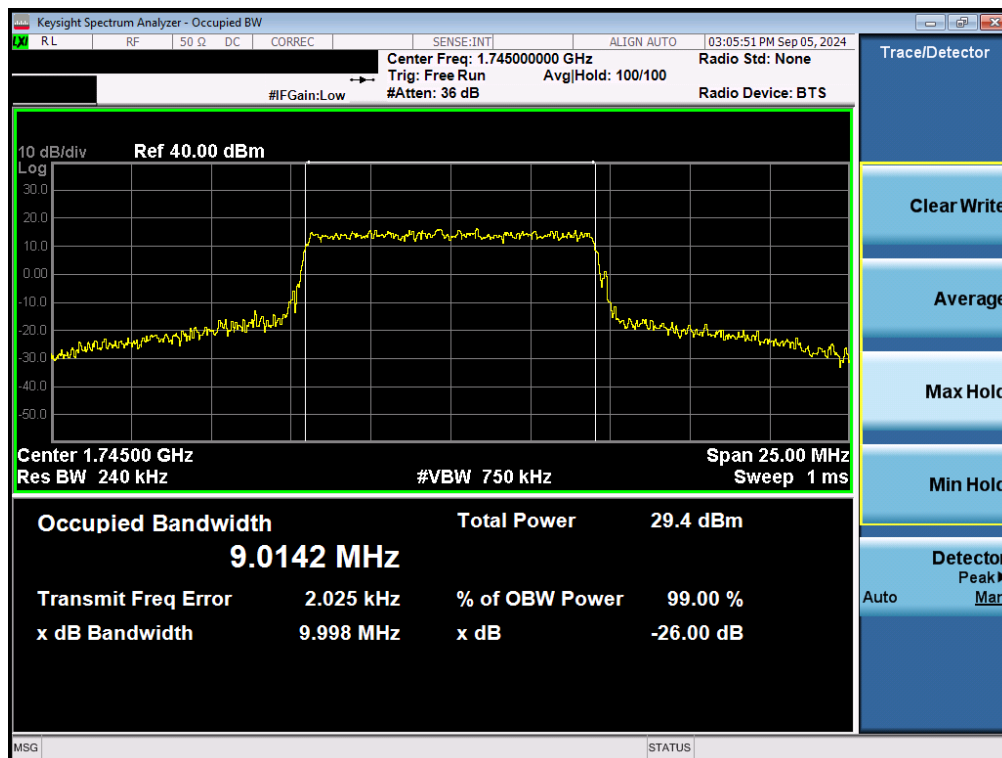


Plot 7-123. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 84 of 276

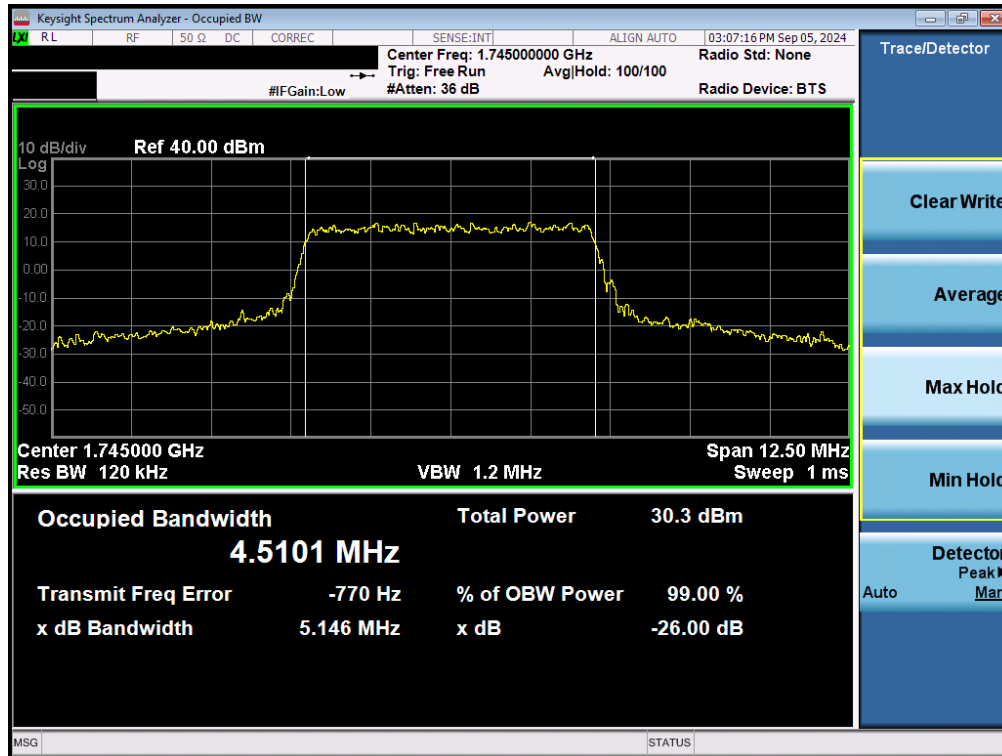


Plot 7-124. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)

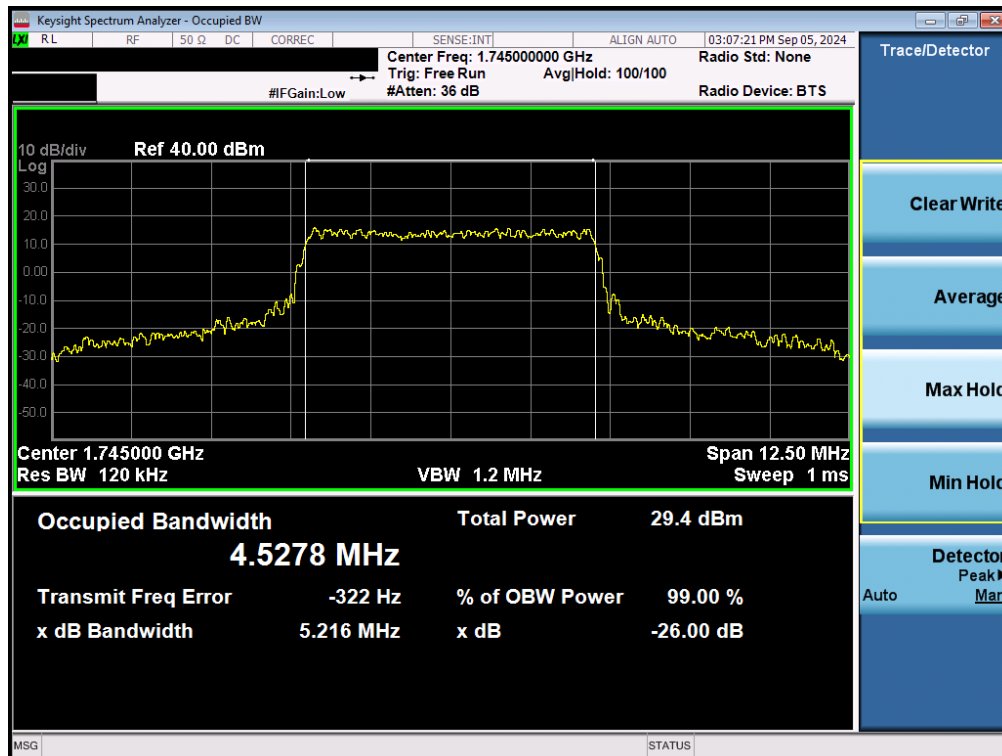


Plot 7-125. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 85 of 276

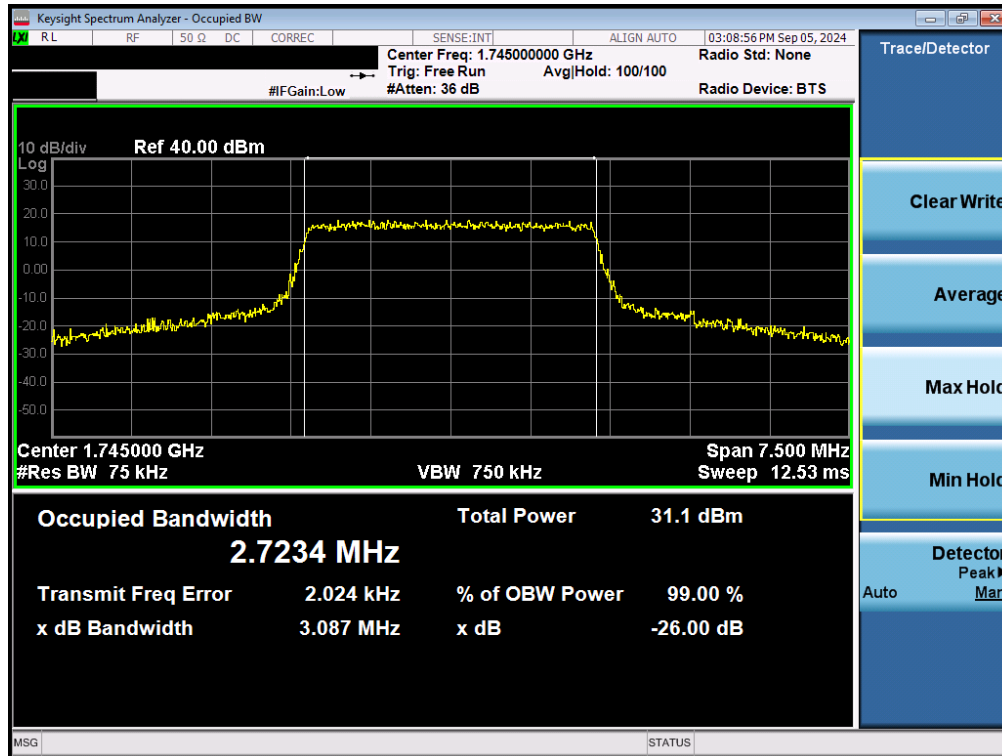


Plot 7-126. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)

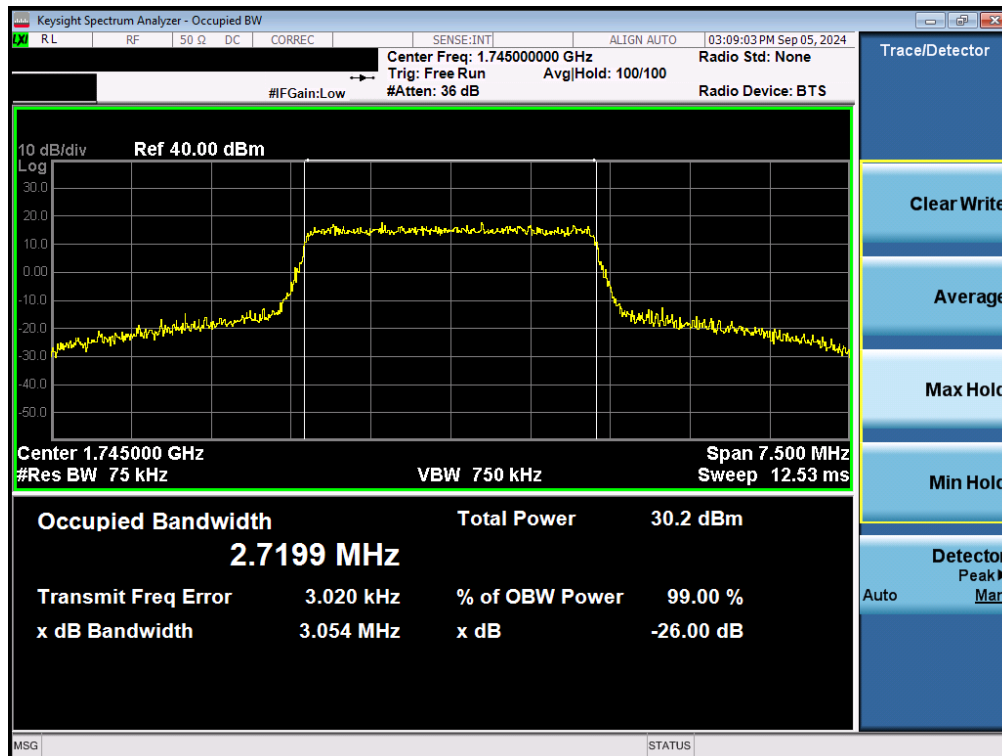


Plot 7-127. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 86 of 276

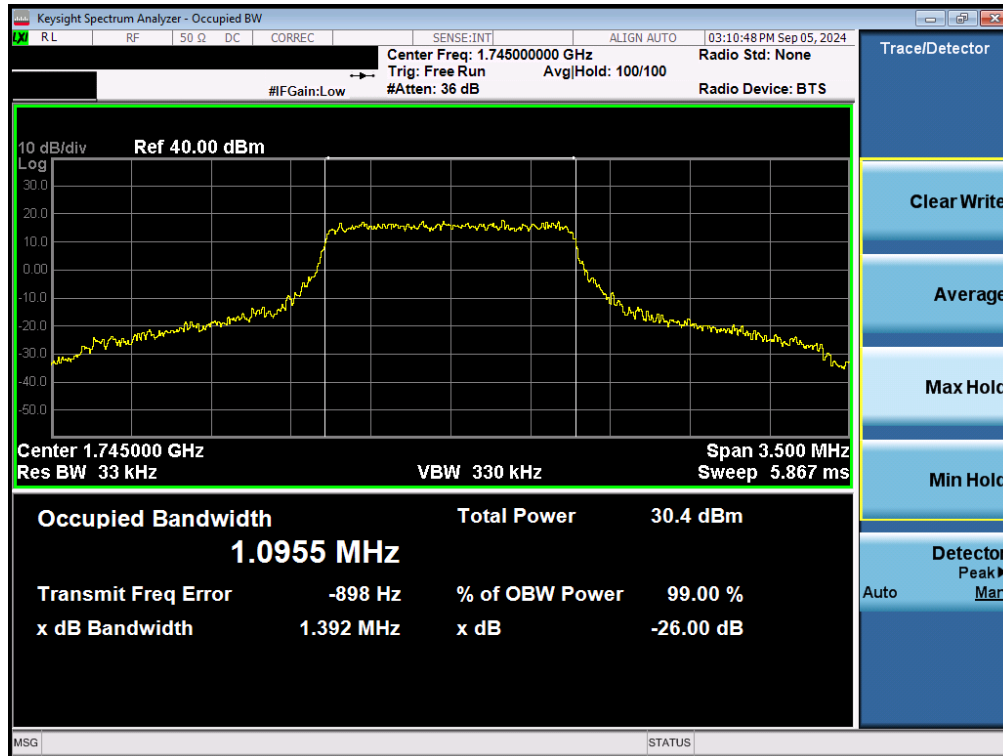


Plot 7-128. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT2)

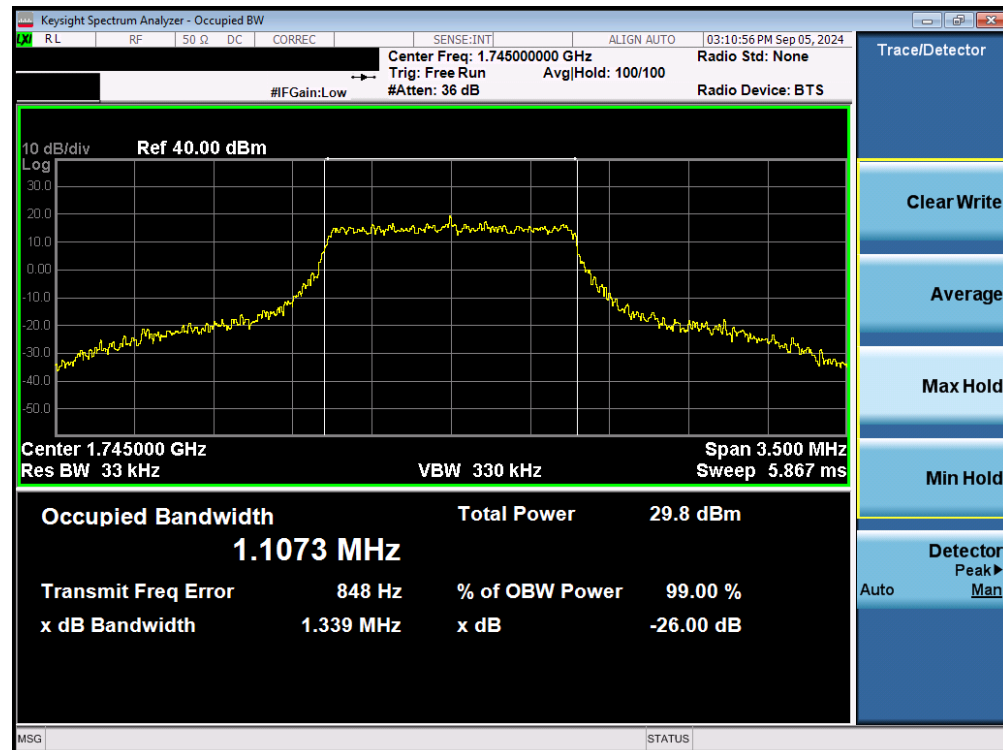


Plot 7-129. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 87 of 276



Plot 7-130. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT2)



Plot 7-131. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB - ANT2)

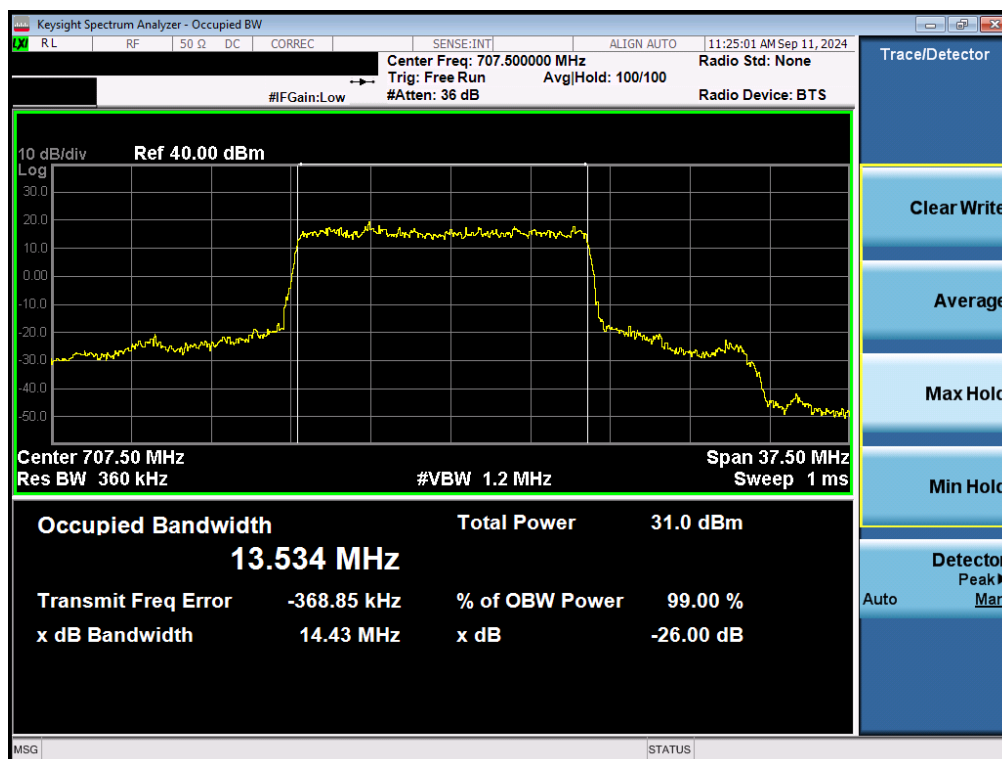
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 88 of 276

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n12	15MHz	$\pi/2$ BPSK	13.53
		QPSK	14.23
		16QAM	14.16
	10MHz	$\pi/2$ BPSK	9.01
		QPSK	9.35
		16QAM	9.36
	5MHz	$\pi/2$ BPSK	4.51
		QPSK	4.52
		16QAM	4.51
NR-n71	35MHz	$\pi/2$ BPSK	32.39
		QPSK	33.73
		16QAM	33.76
	30MHz	$\pi/2$ BPSK	28.76
		QPSK	28.74
		16QAM	28.84
	25MHz	$\pi/2$ BPSK	23.06
		QPSK	23.97
		16QAM	23.90
	20MHz	$\pi/2$ BPSK	17.99
		QPSK	19.00
		16QAM	19.04
	15MHz	$\pi/2$ BPSK	13.56
		QPSK	14.22
		16QAM	14.20
	10MHz	$\pi/2$ BPSK	9.02
		QPSK	9.38
		16QAM	9.37
	5MHz	$\pi/2$ BPSK	4.51
		QPSK	4.52
		16QAM	4.50
NR-n70	15MHz	$\pi/2$ BPSK	13.53
		QPSK	14.22
		16QAM	14.16
	10MHz	$\pi/2$ BPSK	9.01
		QPSK	9.36
		16QAM	9.34
	5MHz	$\pi/2$ BPSK	4.50
		QPSK	4.52
		16QAM	4.51
NR-n66	45MHz	$\pi/2$ BPSK	43.13
		QPSK	43.50
		16QAM	43.53
	40MHz	$\pi/2$ BPSK	38.75
		QPSK	38.68
		16QAM	38.74
	35MHz	$\pi/2$ BPSK	32.38
		QPSK	33.72
		16QAM	33.71
	30MHz	$\pi/2$ BPSK	28.75
		QPSK	28.74
		16QAM	28.70
	20MHz	$\pi/2$ BPSK	17.94
		QPSK	19.01
		16QAM	19.04
	15MHz	$\pi/2$ BPSK	13.51
		QPSK	14.18
		16QAM	14.17
	10MHz	$\pi/2$ BPSK	9.01
		QPSK	9.36
		16QAM	9.33
	5MHz	$\pi/2$ BPSK	4.51
		QPSK	4.52
		16QAM	4.52

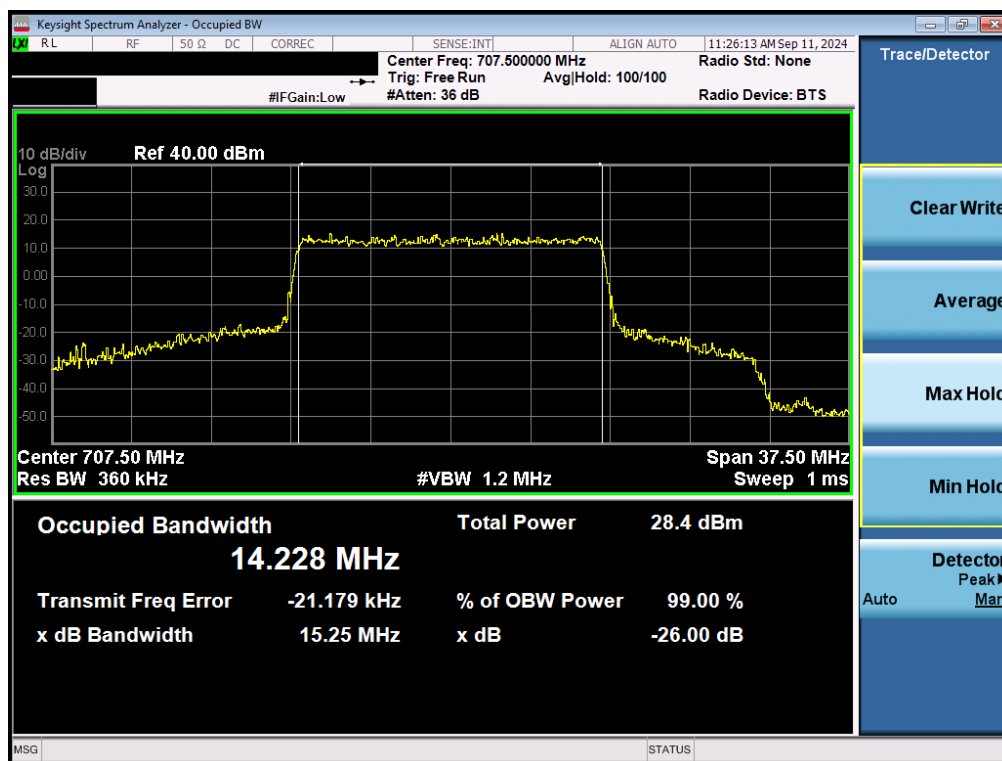
Table 7-7. Occupied Bandwidth Results – Ant2

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 89 of 276

NR Band n12 – ANT2

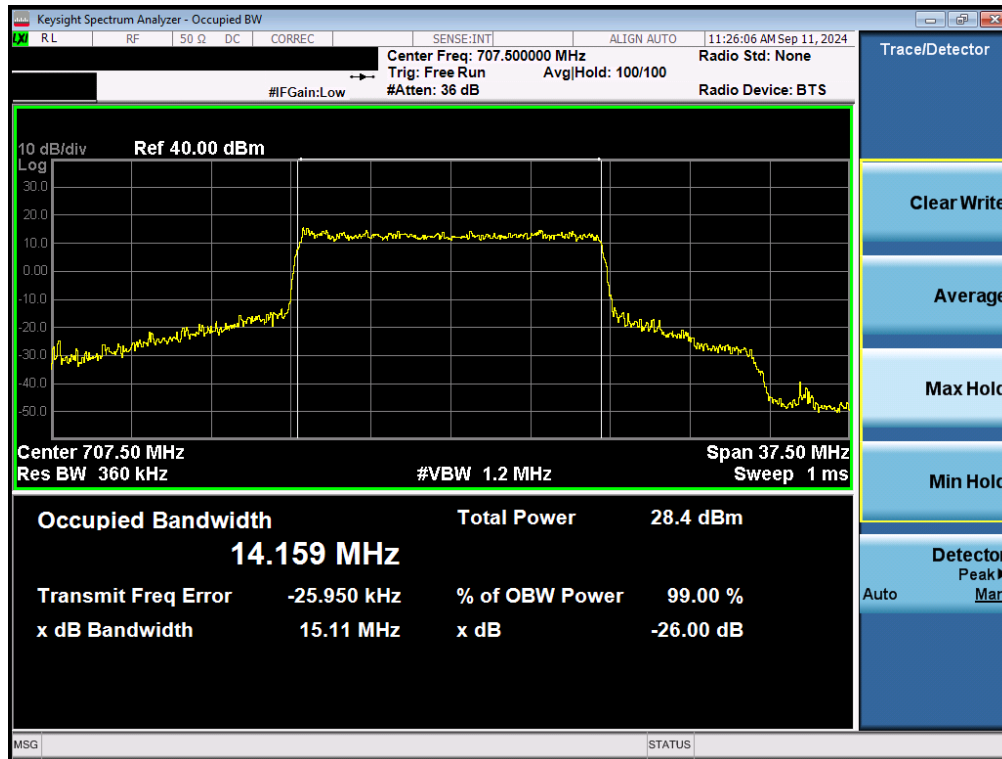


Plot 7-132. Occupied Bandwidth Plot (NR Band n12 - 15MHz DFT-s-OFDM BPSK - Full RB – ANT2)

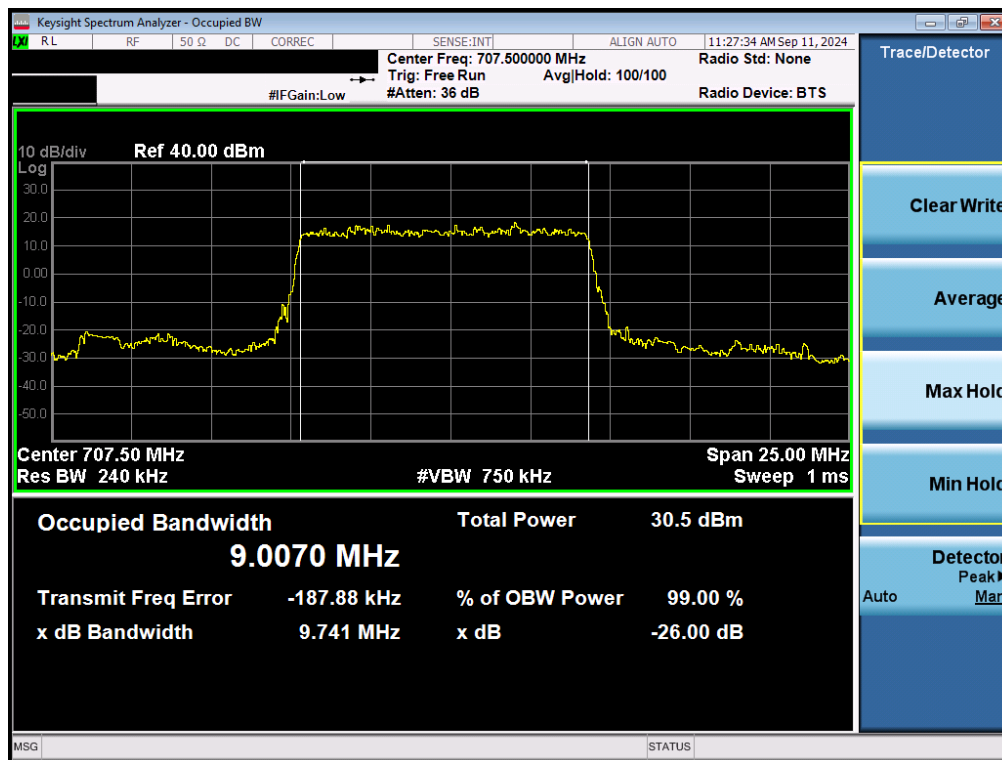


Plot 7-133. Occupied Bandwidth Plot (NR Band n12 - 15MHz QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 90 of 276

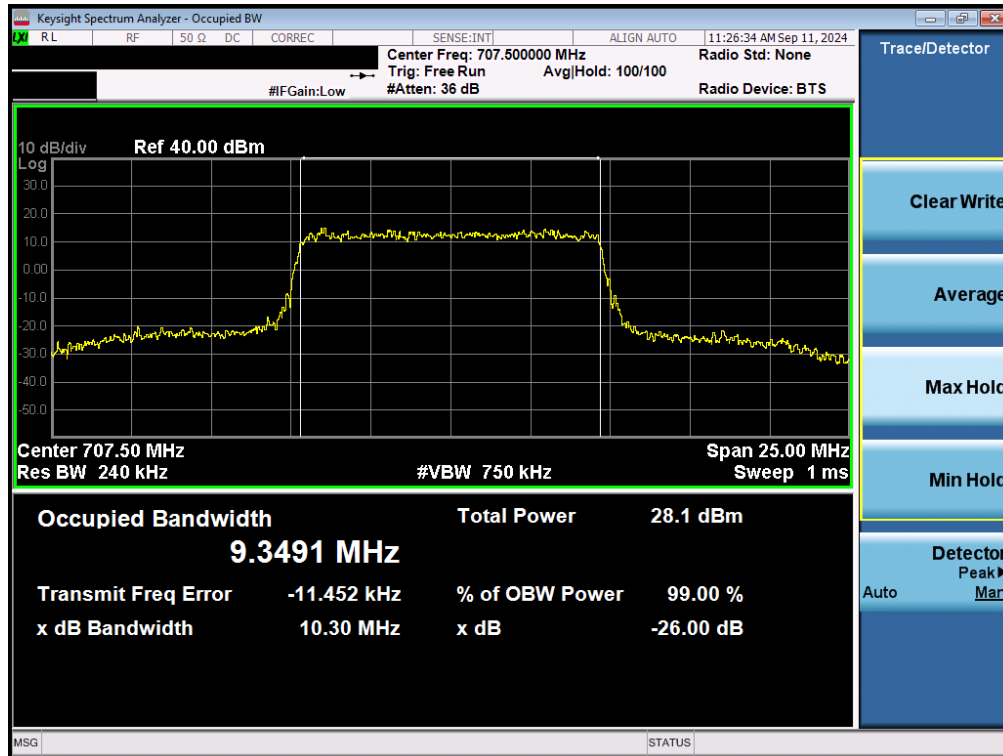


Plot 7-134. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 16-QAM - Full RB – ANT2)

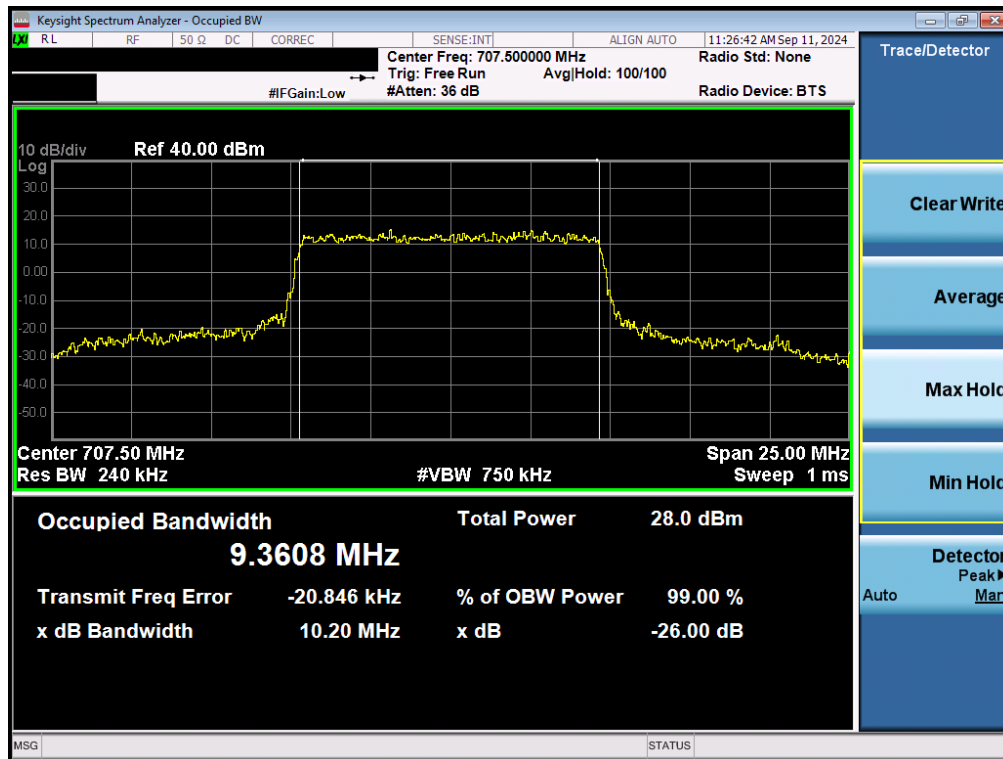


Plot 7-135. Occupied Bandwidth Plot (NR Band n12 - 10MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 91 of 276

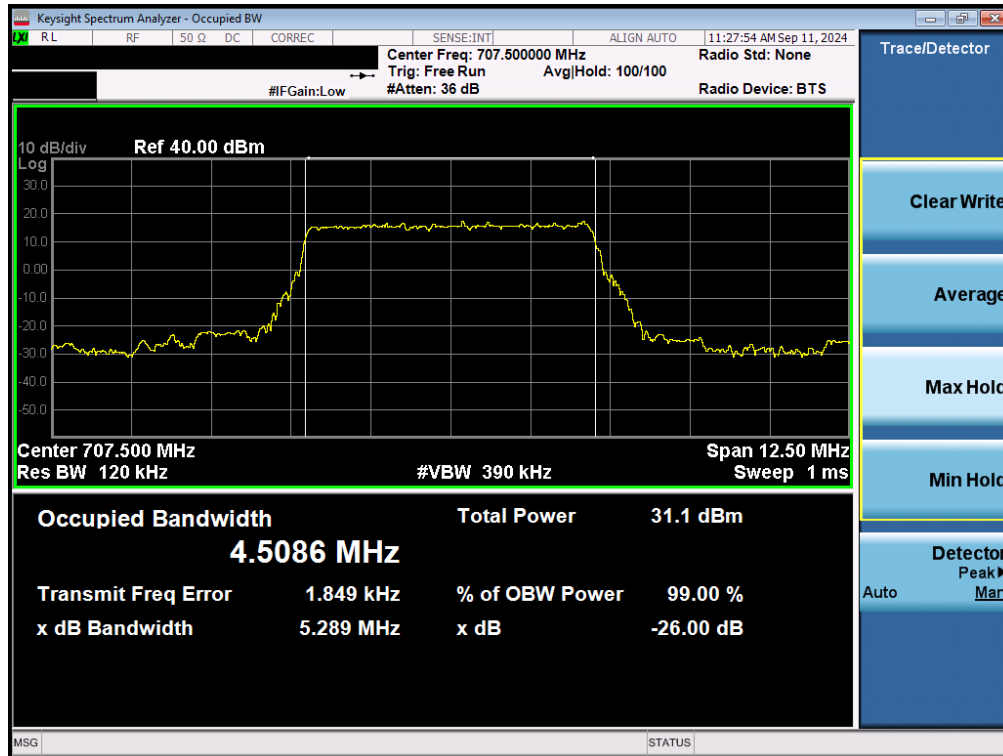


Plot 7-136. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM QPSK - Full RB – ANT2)

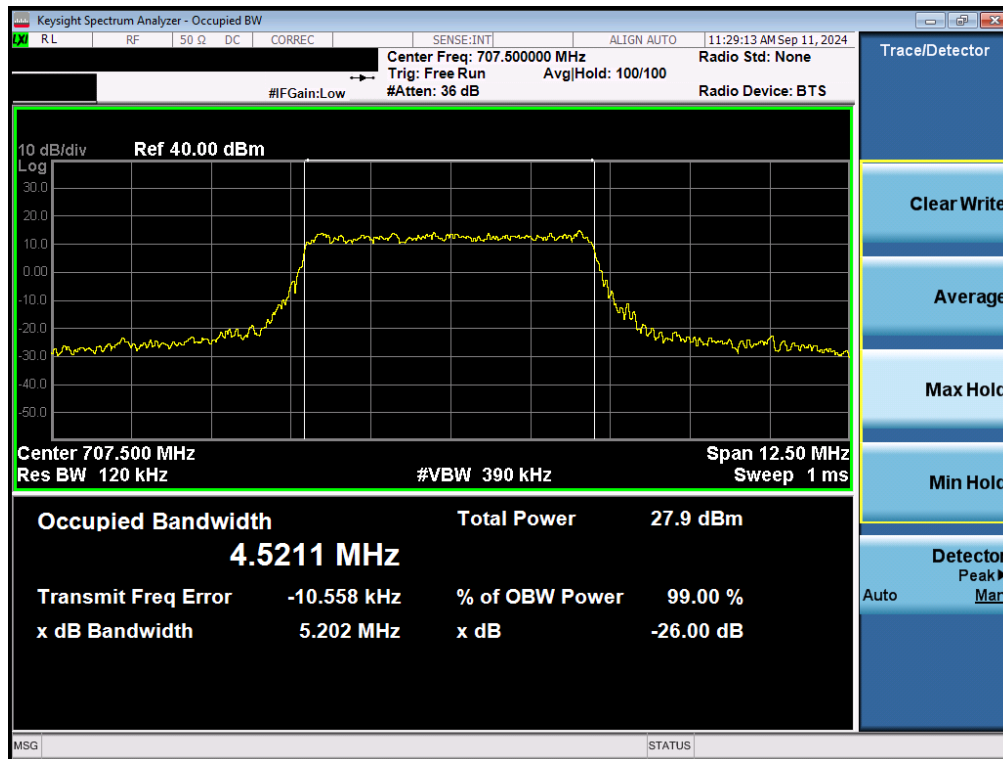


Plot 7-137. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 92 of 276

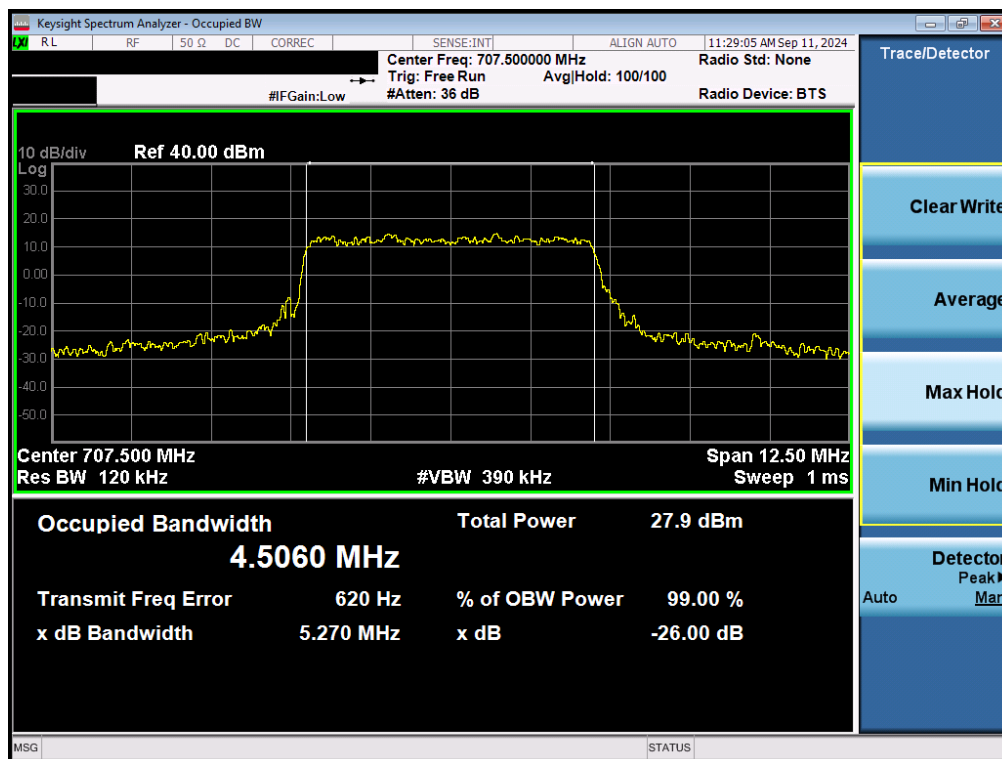


Plot 7-138. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-139. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM QPSK - Full RB – ANT2)

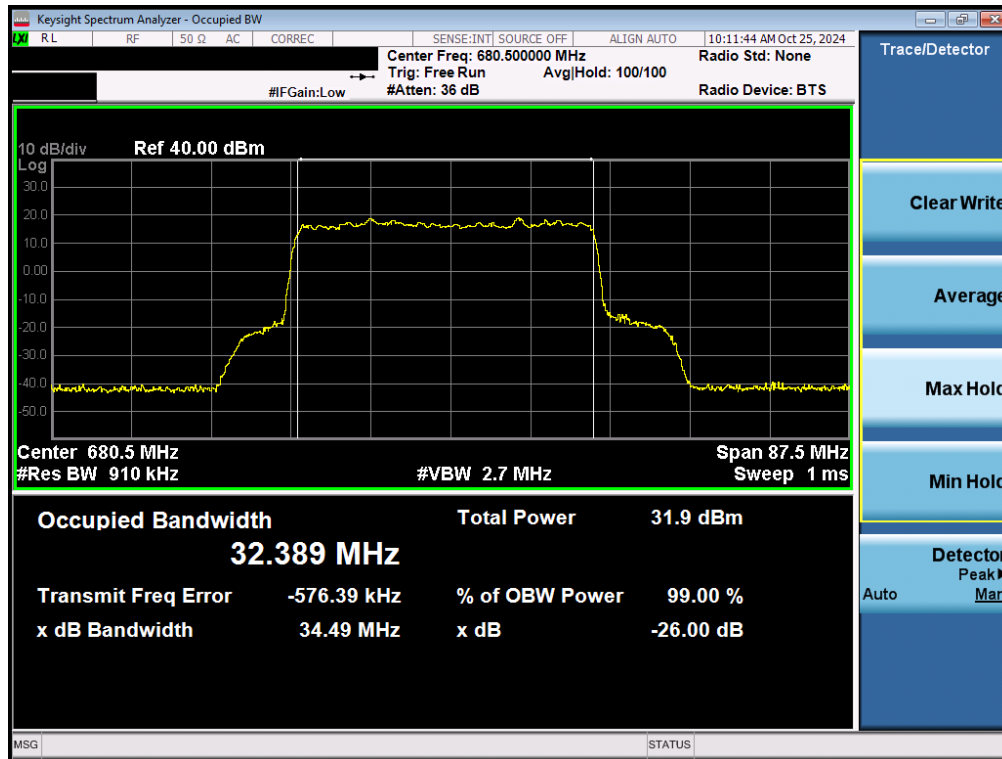
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 93 of 276



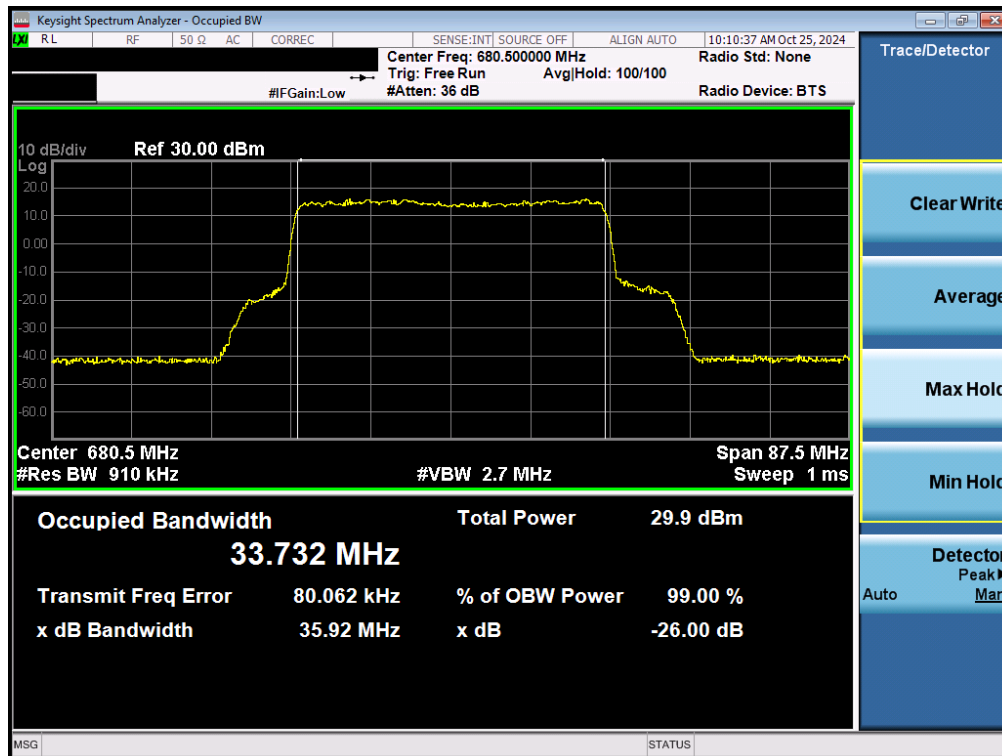
Plot 7-140. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 94 of 276

NR Band n71 – ANT2

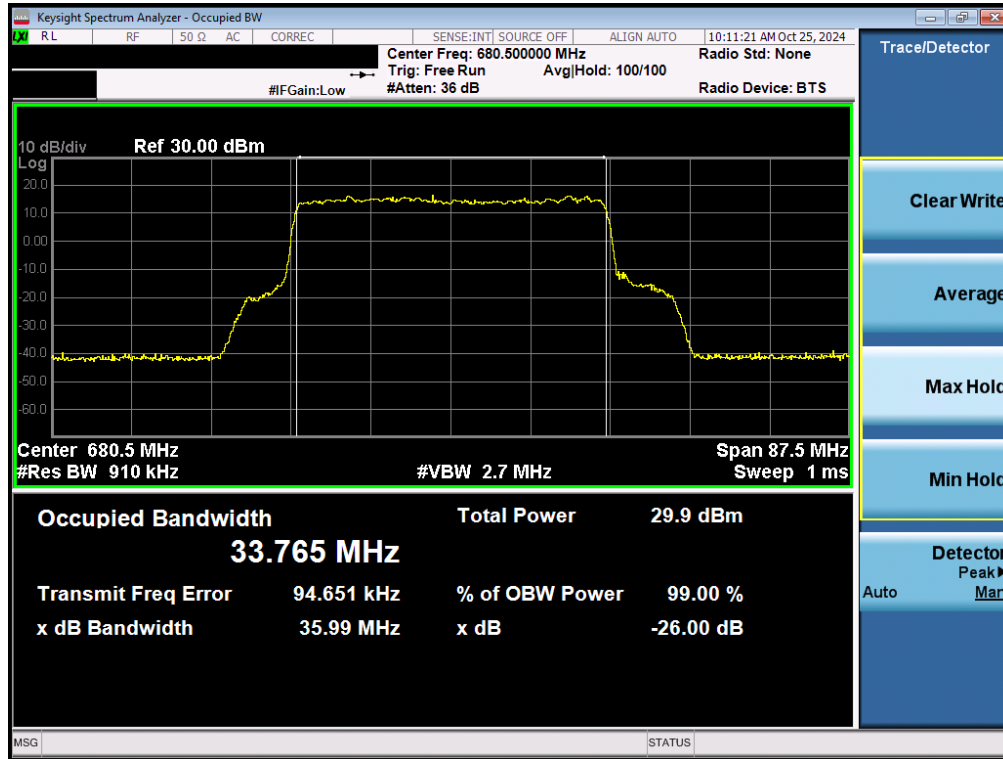


Plot 7-141. Occupied Bandwidth Plot (NR Band n71 - 35MHz DFT-s-OFDM BPSK - Full RB – ANT2)

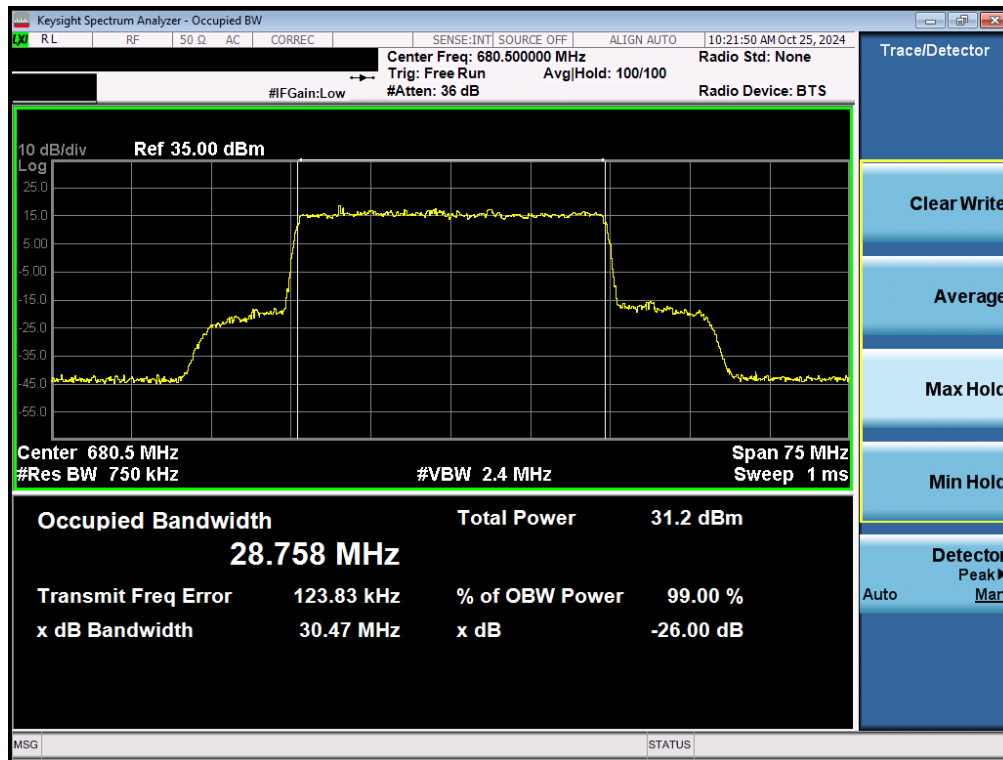


Plot 7-142. Occupied Bandwidth Plot (NR Band n71 - 35MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 95 of 276

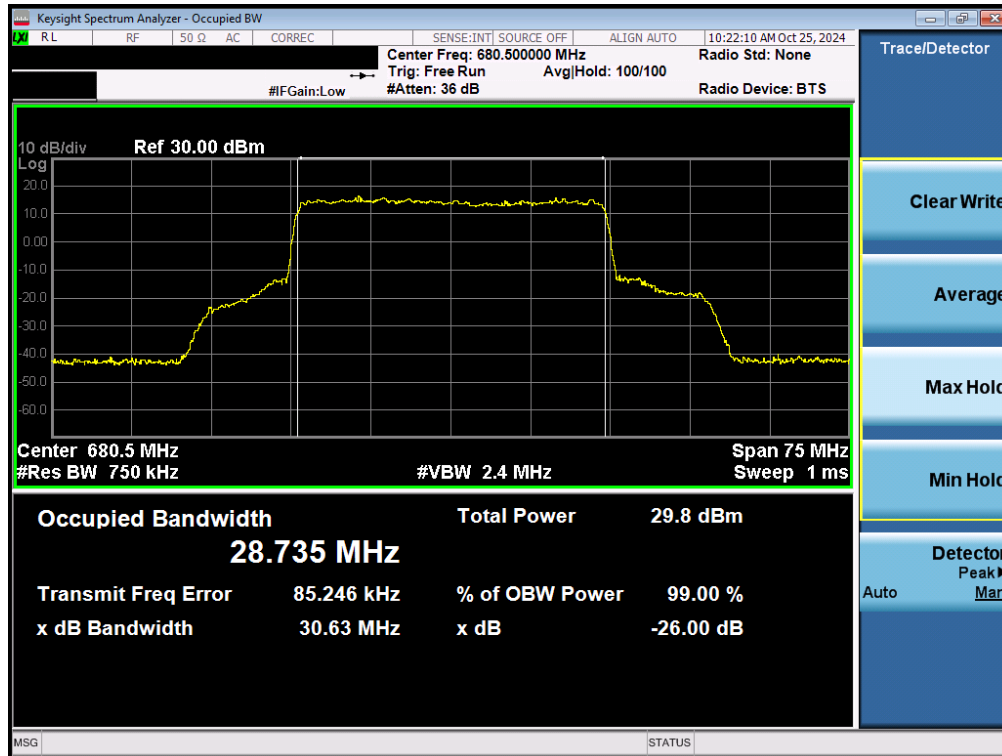


Plot 7-143. Occupied Bandwidth Plot (NR Band n71 - 35MHz CP-OFDM 16-QAM - Full RB – ANT2)

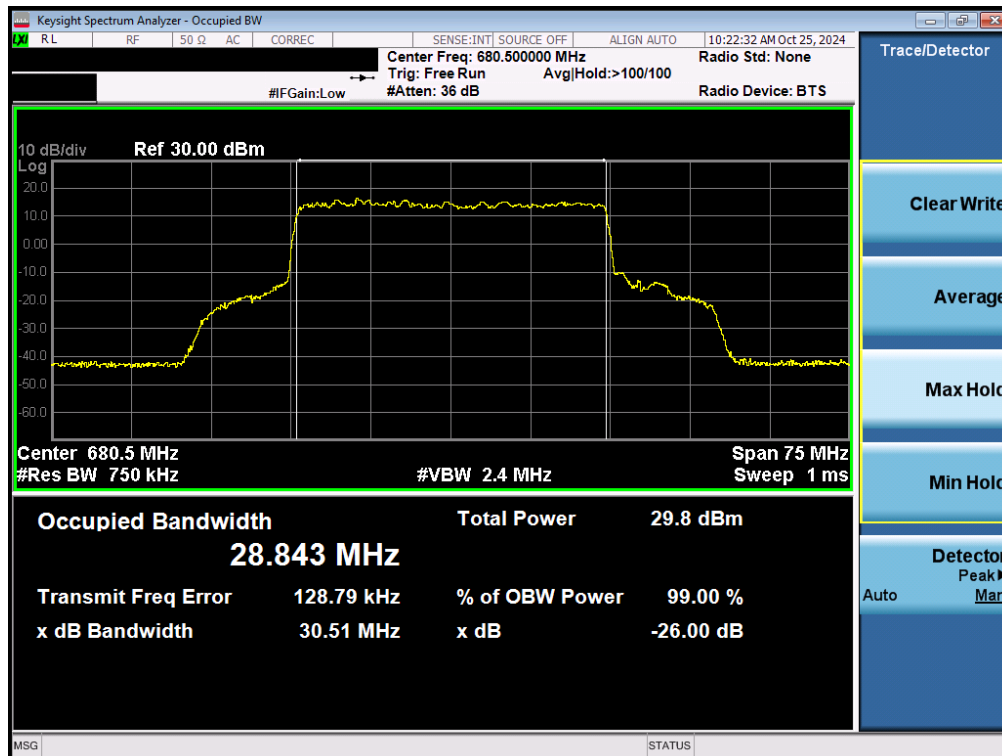


Plot 7-144. Occupied Bandwidth Plot (NR Band n71 - 30MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 96 of 276

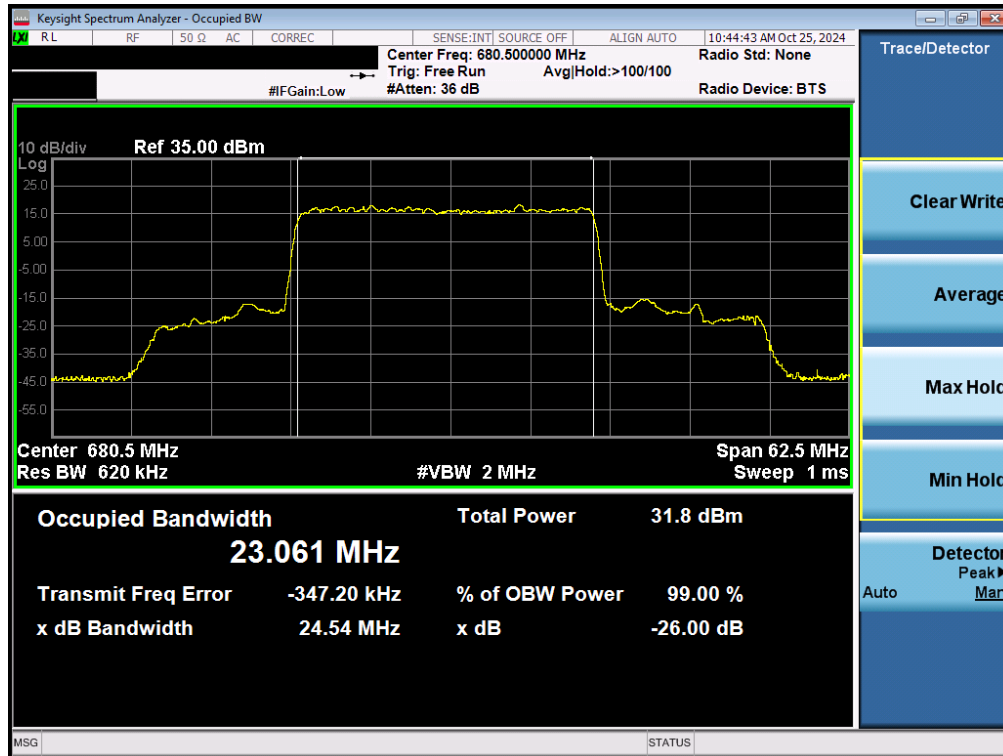


Plot 7-145. Occupied Bandwidth Plot (NR Band n71 - 30MHz CP-OFDM QPSK - Full RB – ANT2)

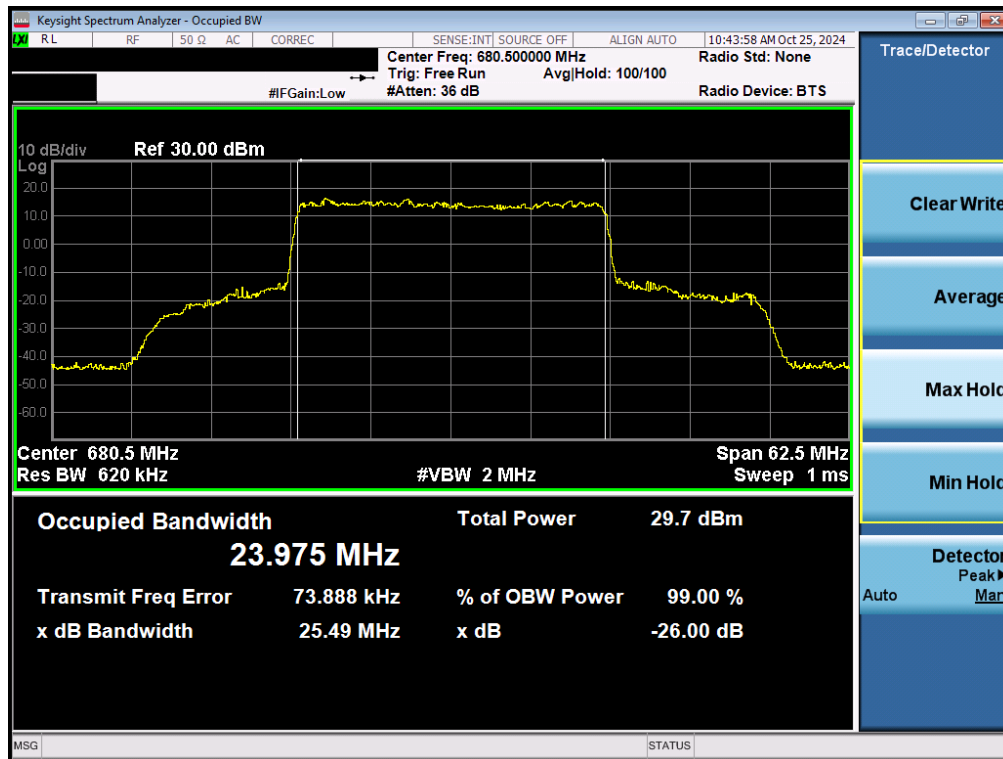


Plot 7-146. Occupied Bandwidth Plot (NR Band n71 - 30MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 97 of 276

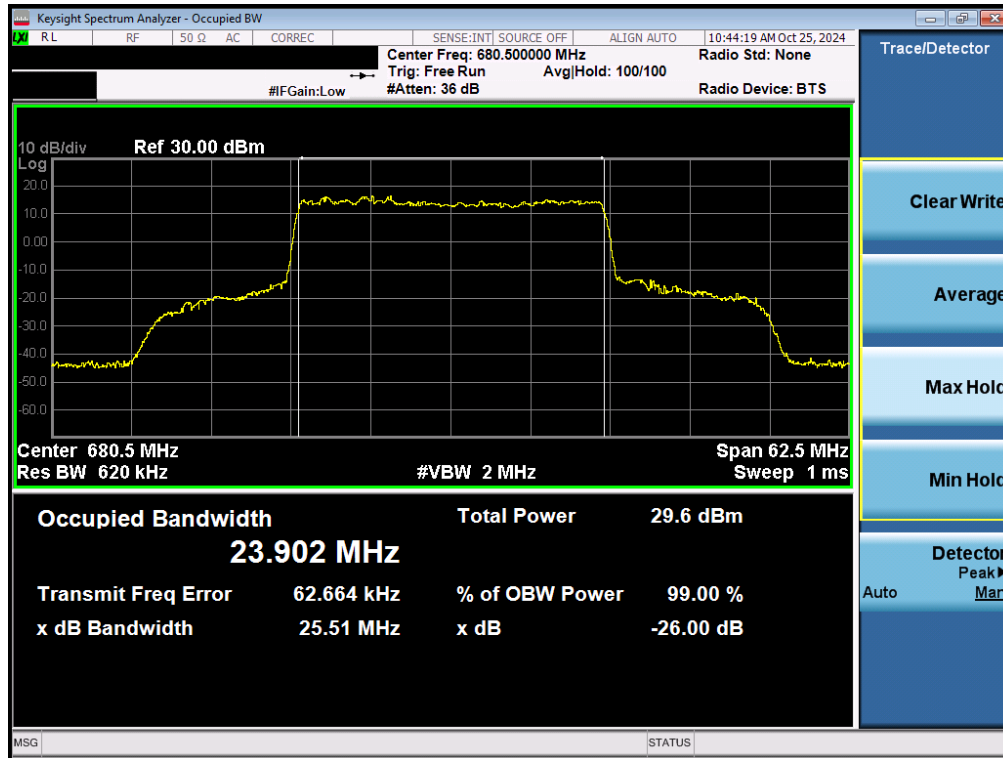


Plot 7-147. Occupied Bandwidth Plot (NR Band n71 - 25MHz DFT-s-OFDM BPSK - Full RB – ANT2)

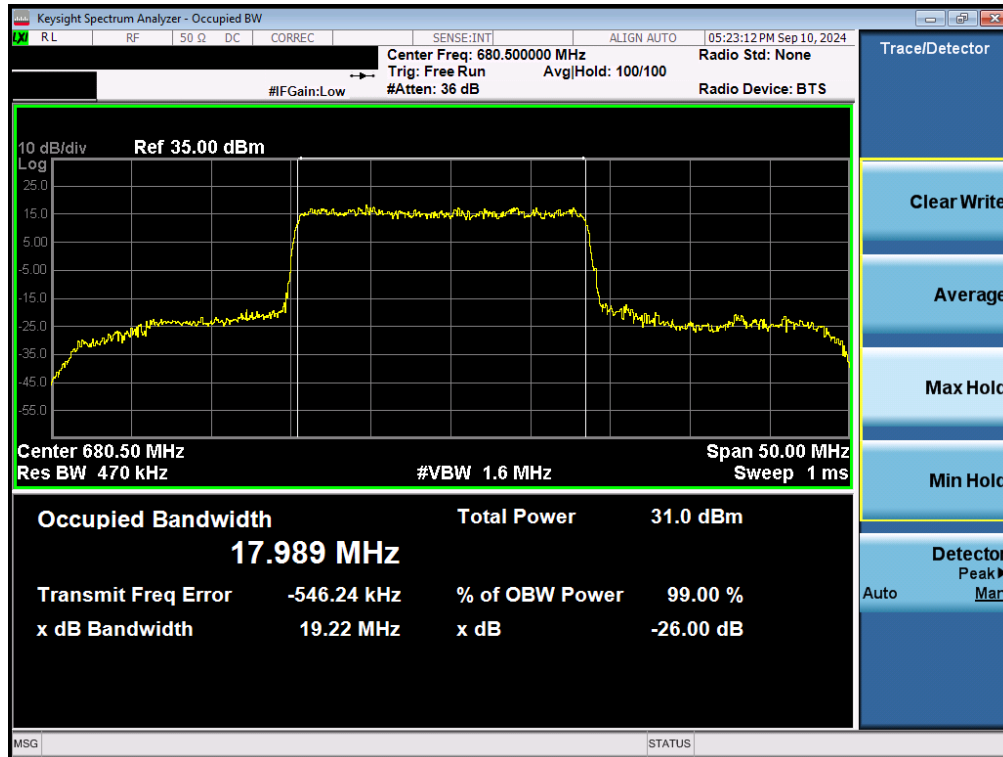


Plot 7-148. Occupied Bandwidth Plot (NR Band n71 - 25MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 98 of 276

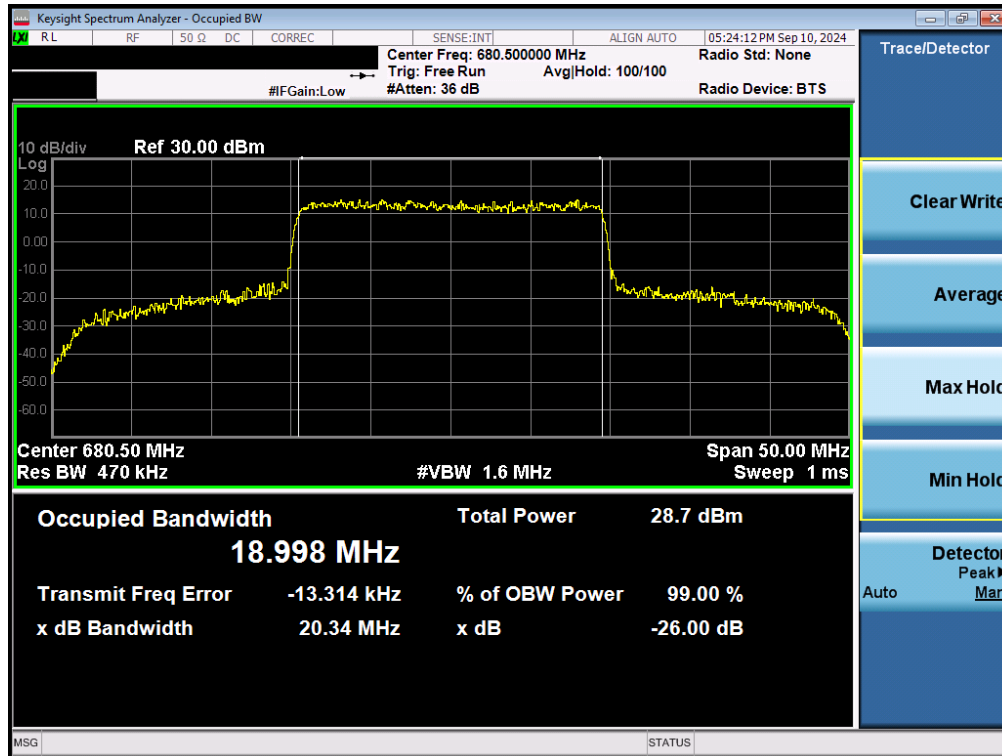


Plot 7-149. Occupied Bandwidth Plot (NR Band n71 - 25MHz CP-OFDM 16-QAM - Full RB – ANT2)

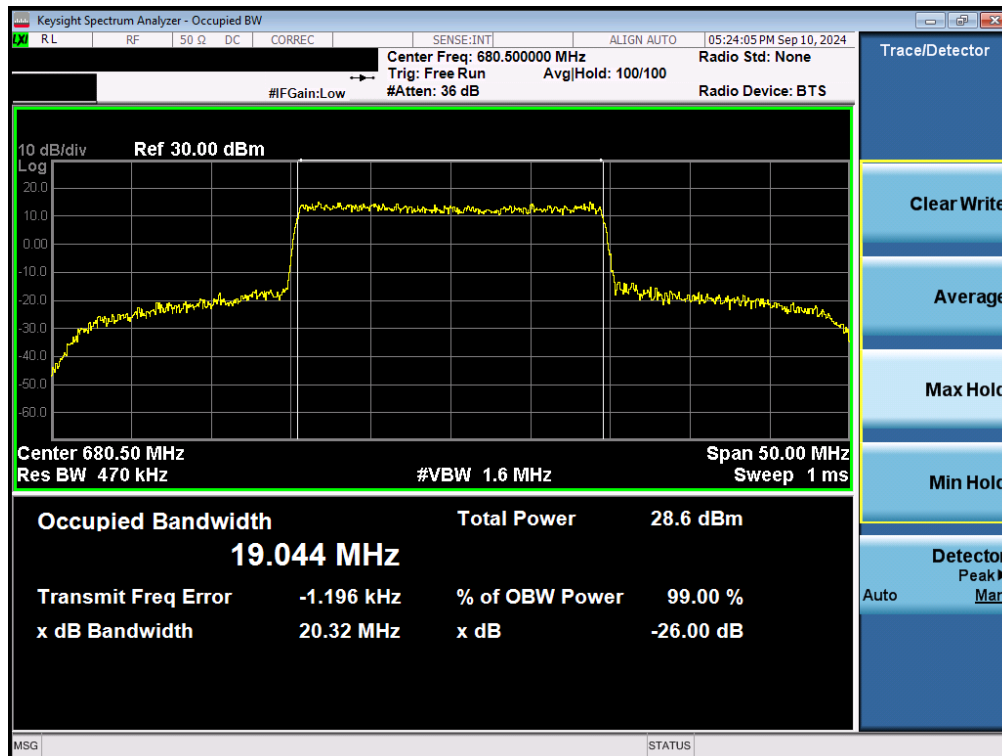


Plot 7-150. Occupied Bandwidth Plot (NR Band n71 - 20MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 99 of 276

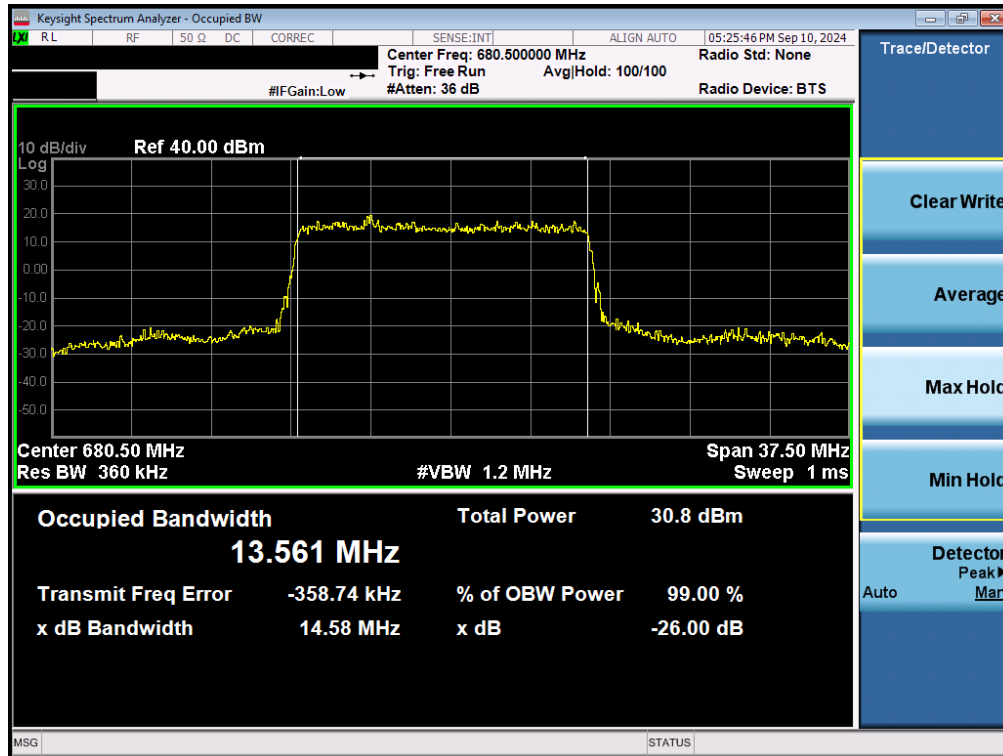


Plot 7-151. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM QPSK - Full RB – ANT2)

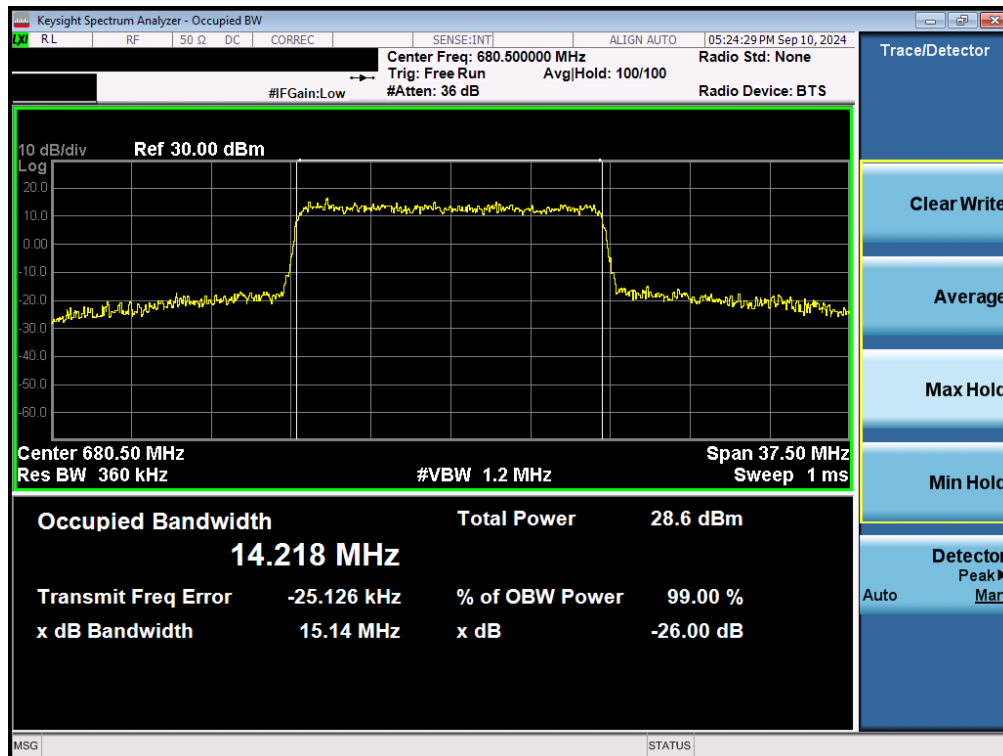


Plot 7-152. Occupied Bandwidth Plot (NR Band n71 - 20MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 100 of 276

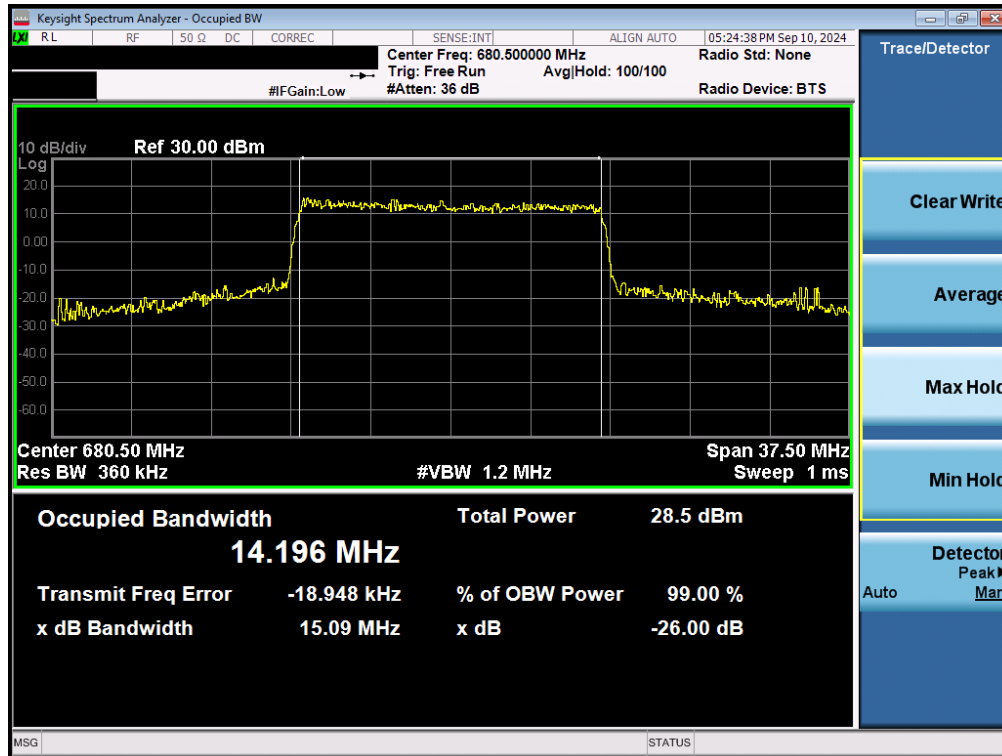


Plot 7-153. Occupied Bandwidth Plot (NR Band n71 - 15MHz DFT-s-OFDM BPSK - Full RB – ANT2)

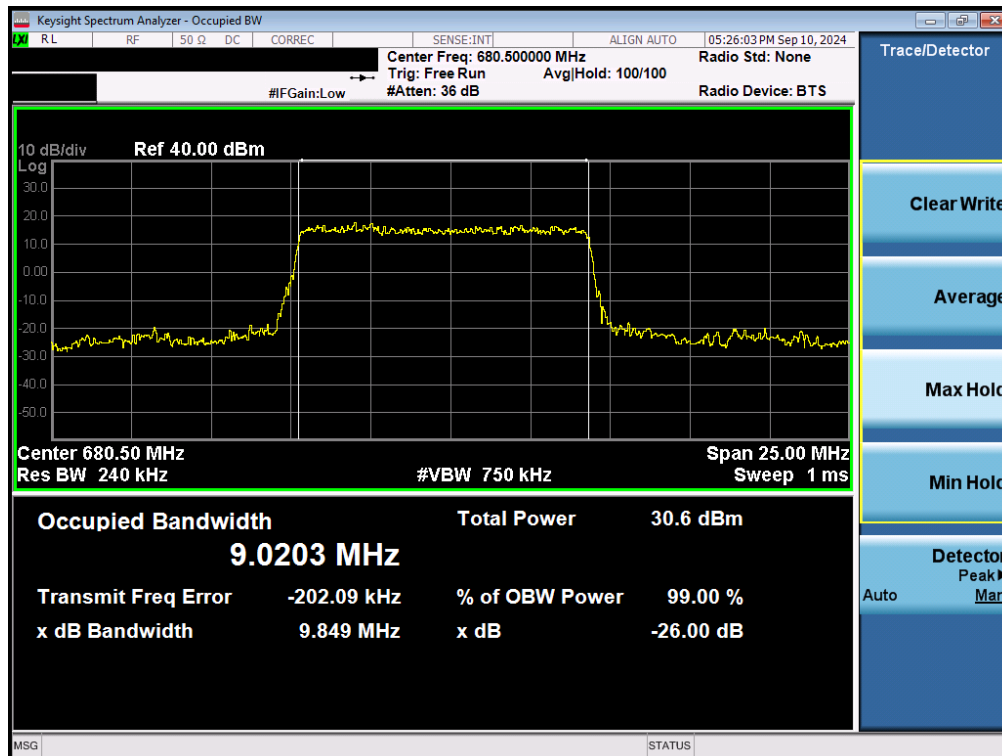


Plot 7-154. Occupied Bandwidth Plot (NR Band n71 - 15MHz QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 101 of 276

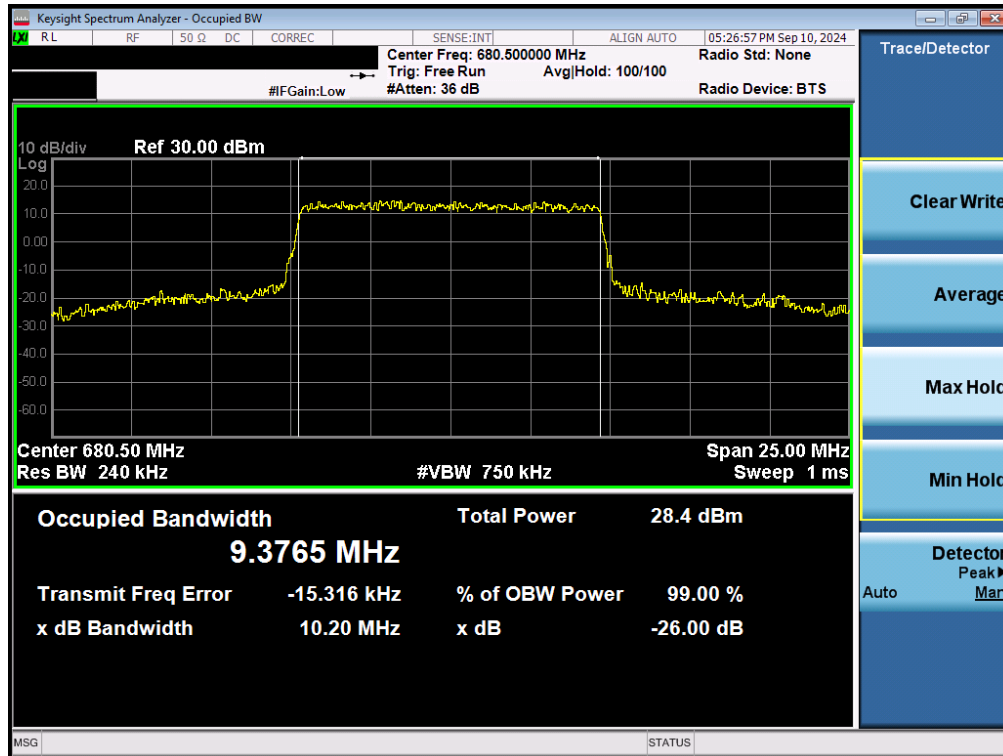


Plot 7-155. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM 16-QAM - Full RB – ANT2)

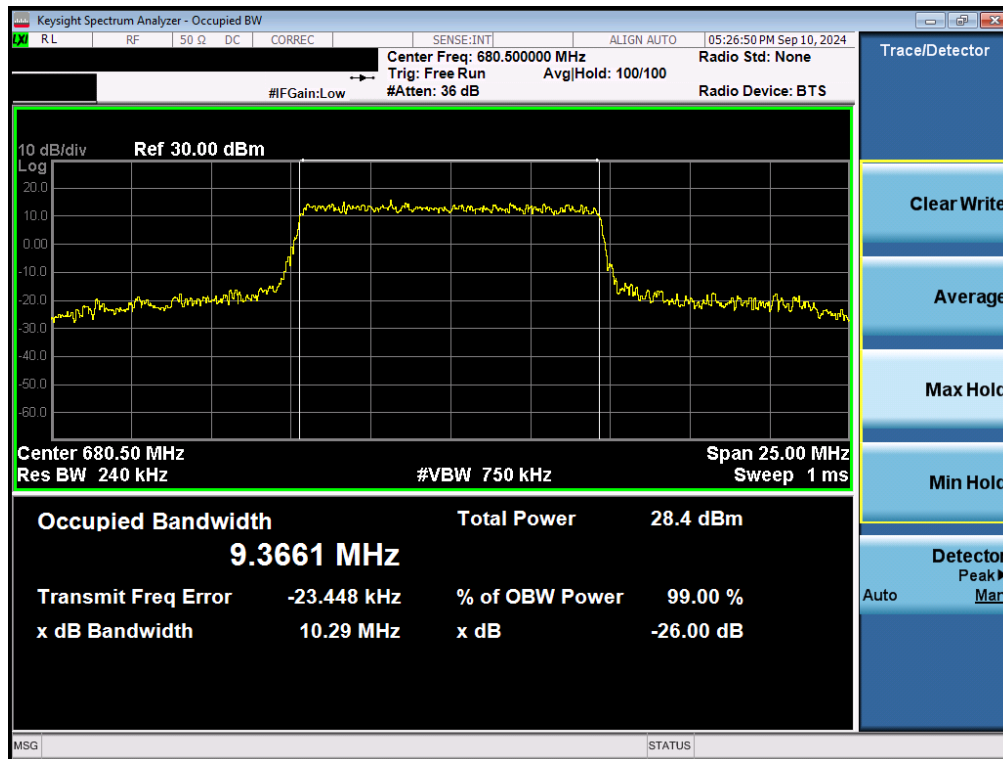


Plot 7-156. Occupied Bandwidth Plot (NR Band n71 - 10MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 102 of 276

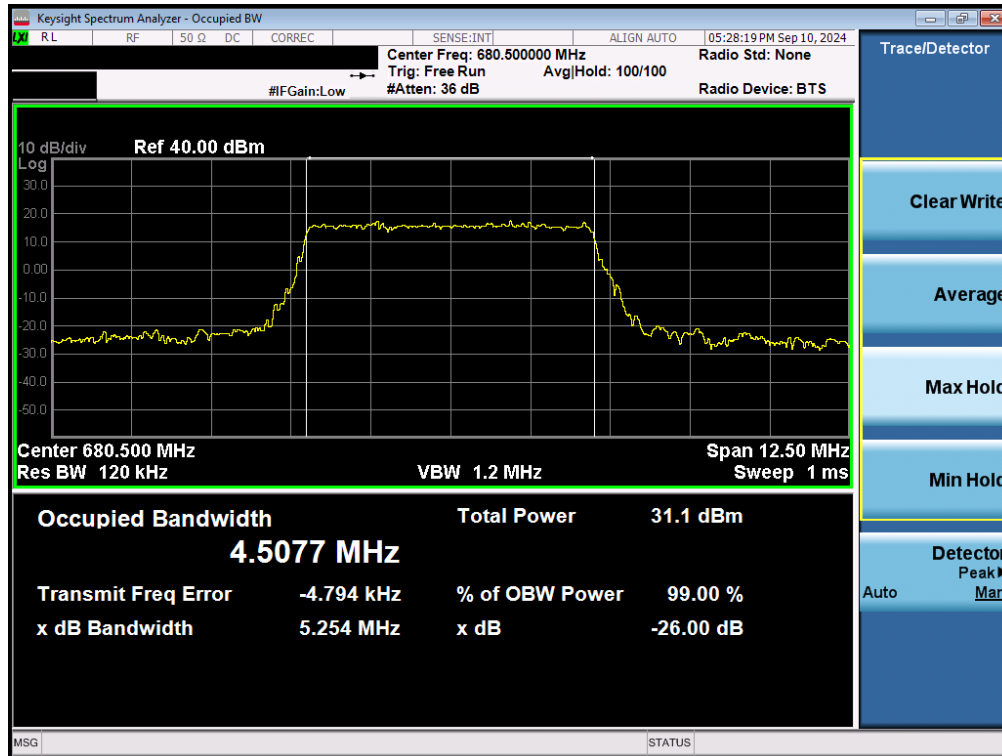


Plot 7-157. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM QPSK - Full RB – ANT2)

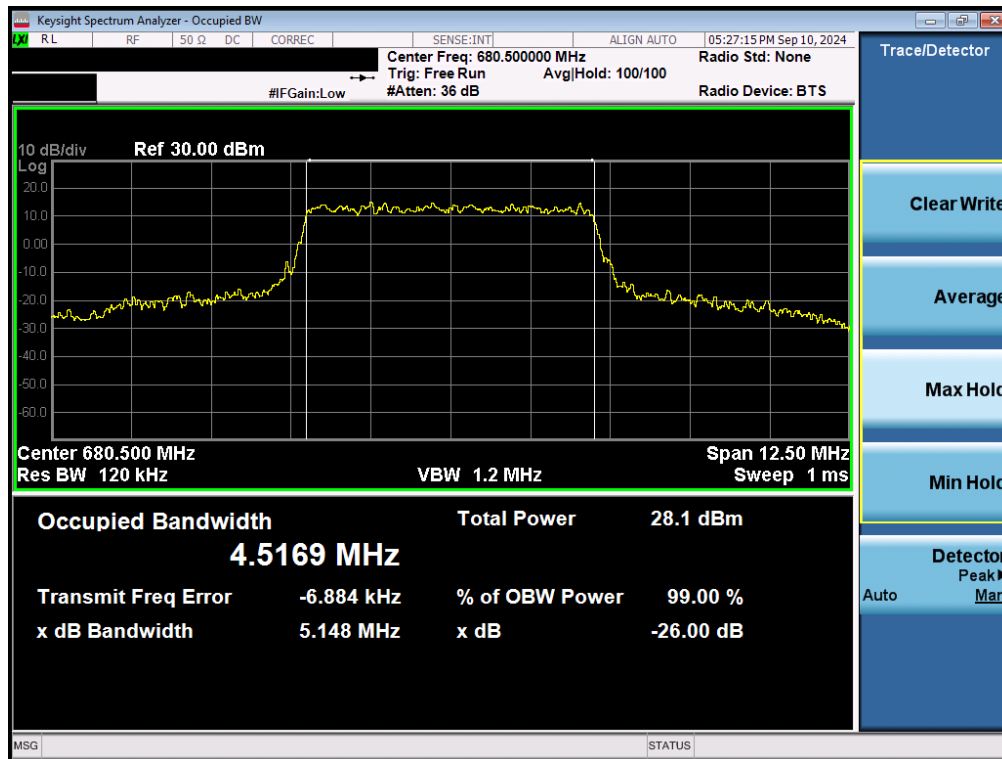


Plot 7-158. Occupied Bandwidth Plot (NR Band n71 - 10MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 103 of 276

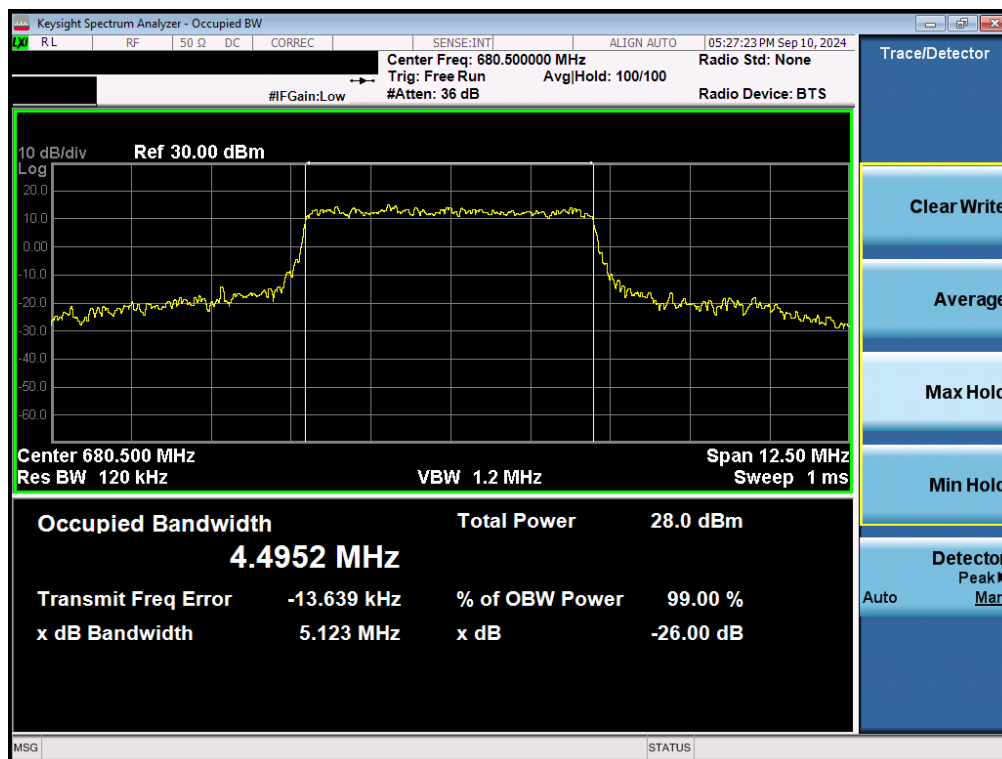


Plot 7-159. Occupied Bandwidth Plot (NR Band n71 - 5MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-160. Occupied Bandwidth Plot (NR Band n71 - 5MHz CP-OFDM QPSK - Full RB – ANT2)

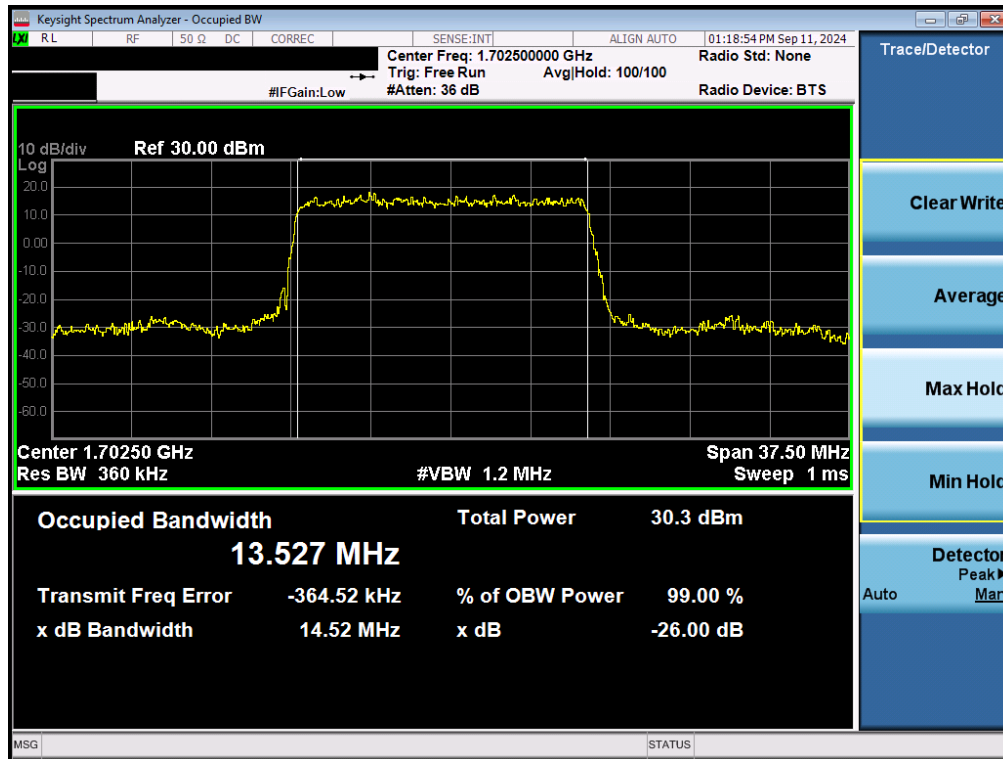
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 104 of 276



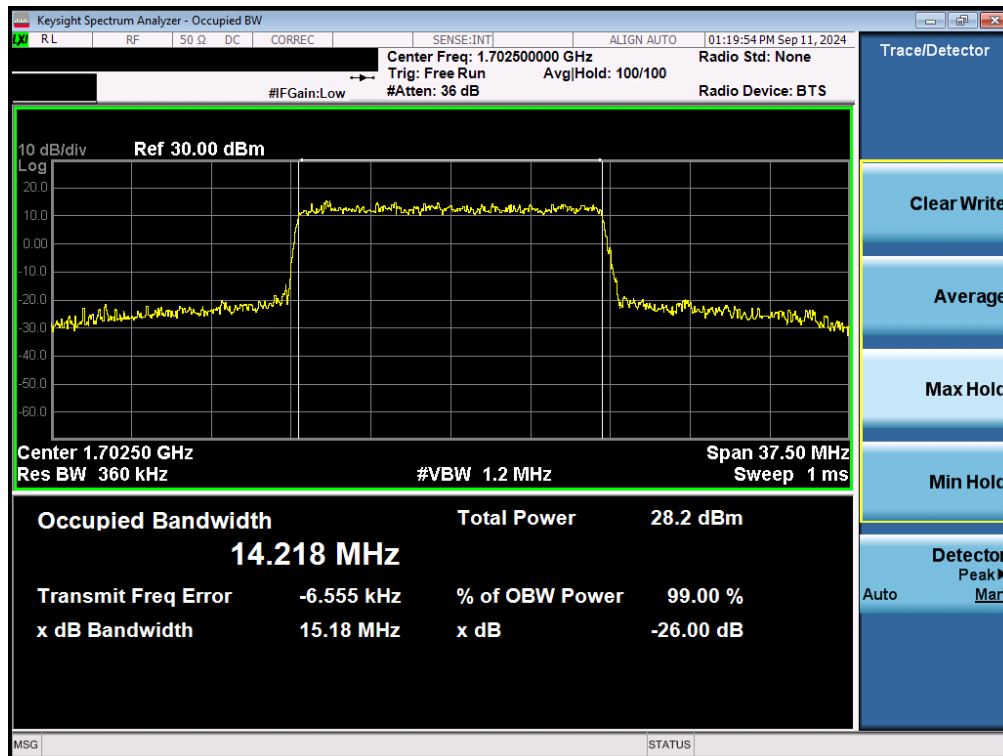
Plot 7-161. Occupied Bandwidth Plot (NR Band n71 - 5MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 105 of 276

NR Band n70 – ANT2

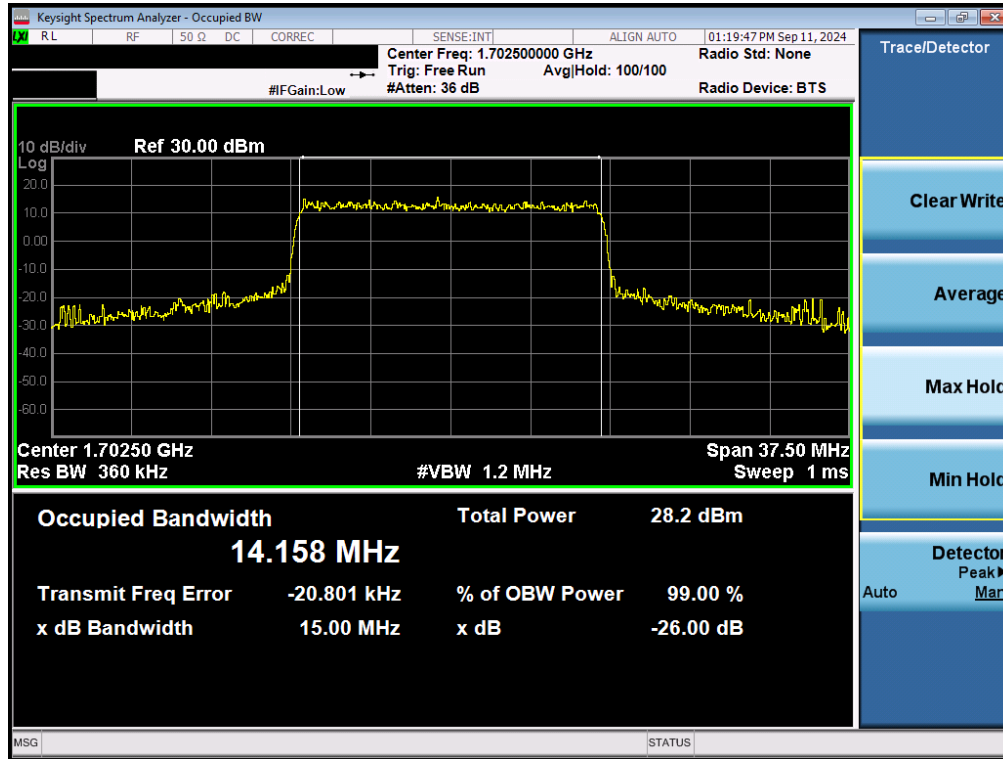


Plot 7-162. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

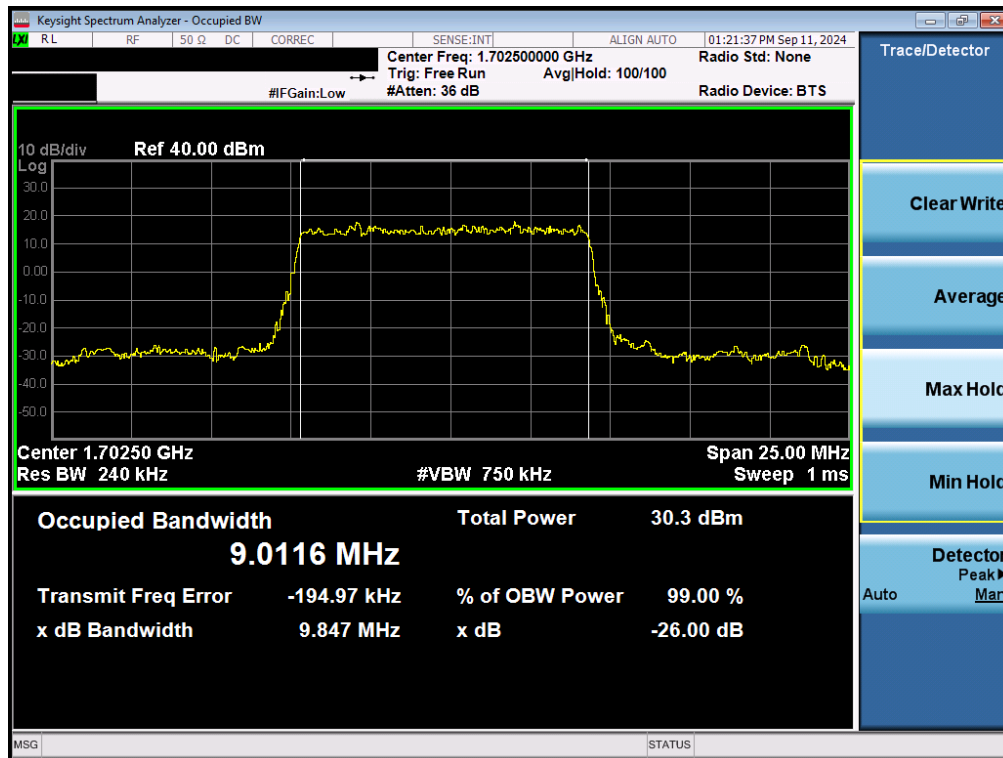


Plot 7-163. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 106 of 276

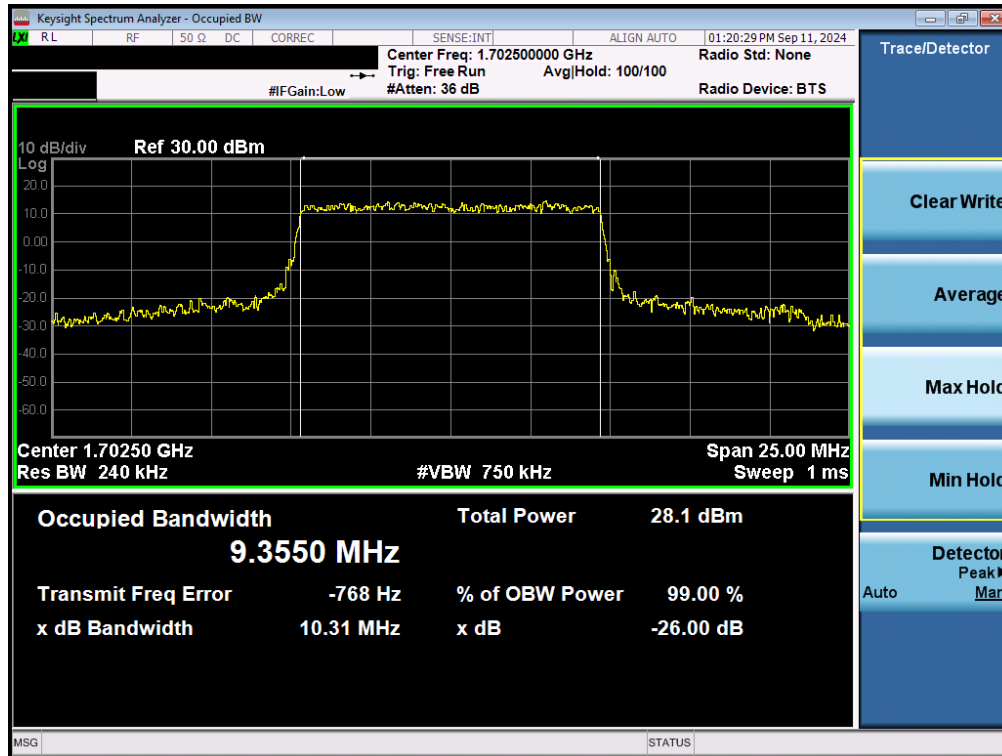


Plot 7-164. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz CP-OFDM 16QAM - Full RB – ANT2)

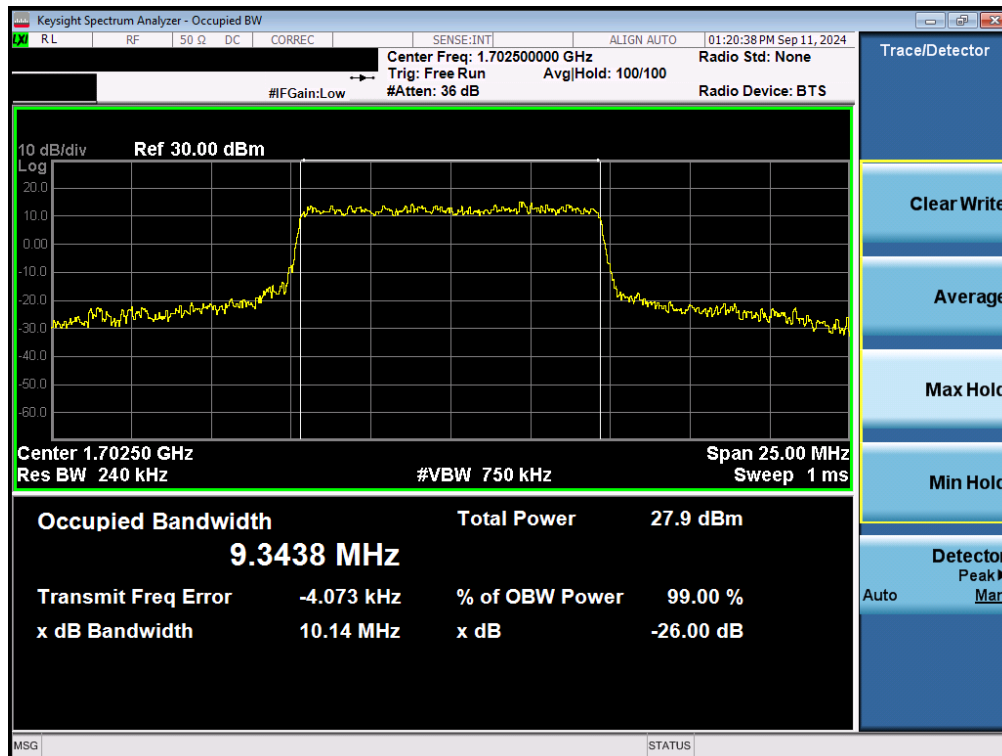


Plot 7-165. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 107 of 276

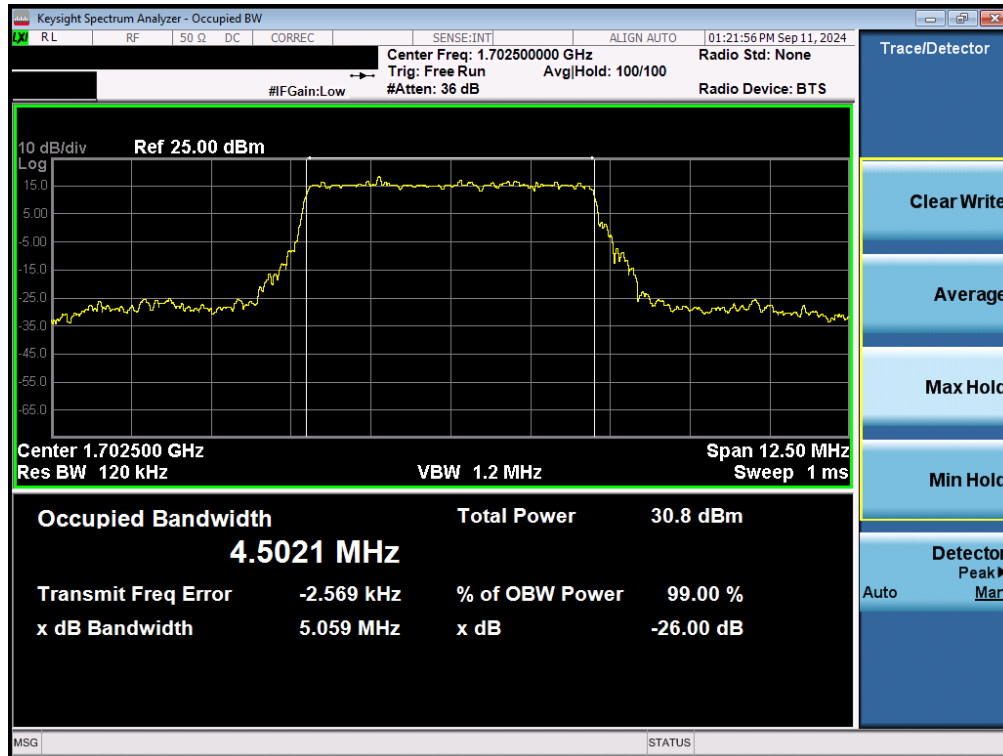


Plot 7-166. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz CP-OFDM QPSK - Full RB – ANT2)

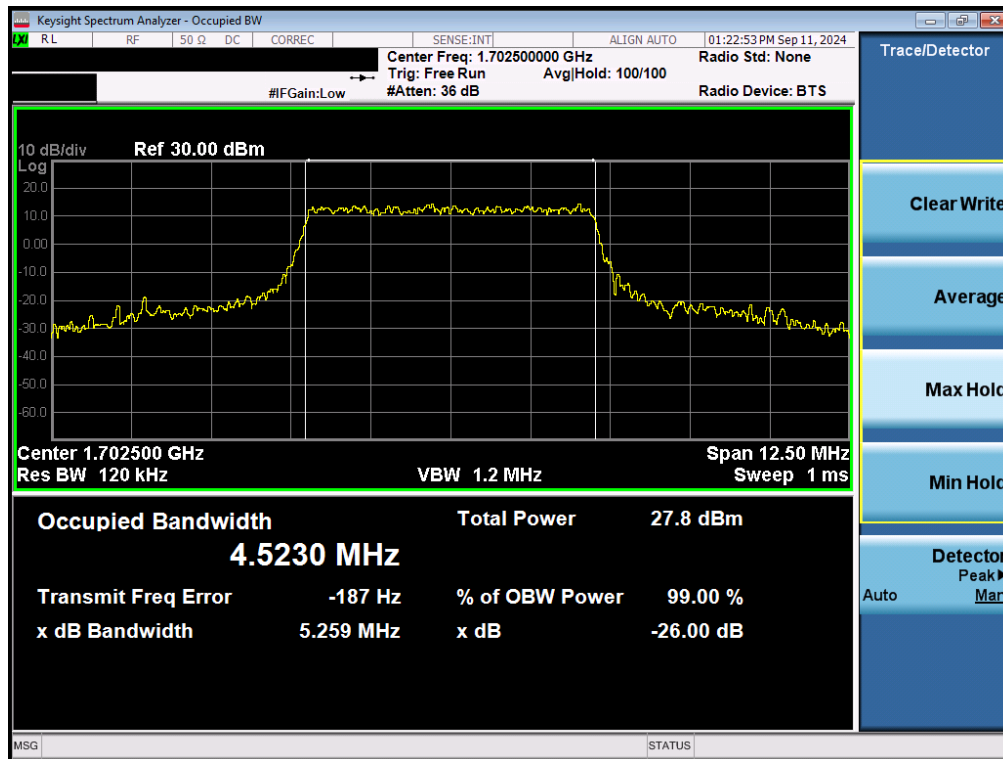


Plot 7-167. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 108 of 276

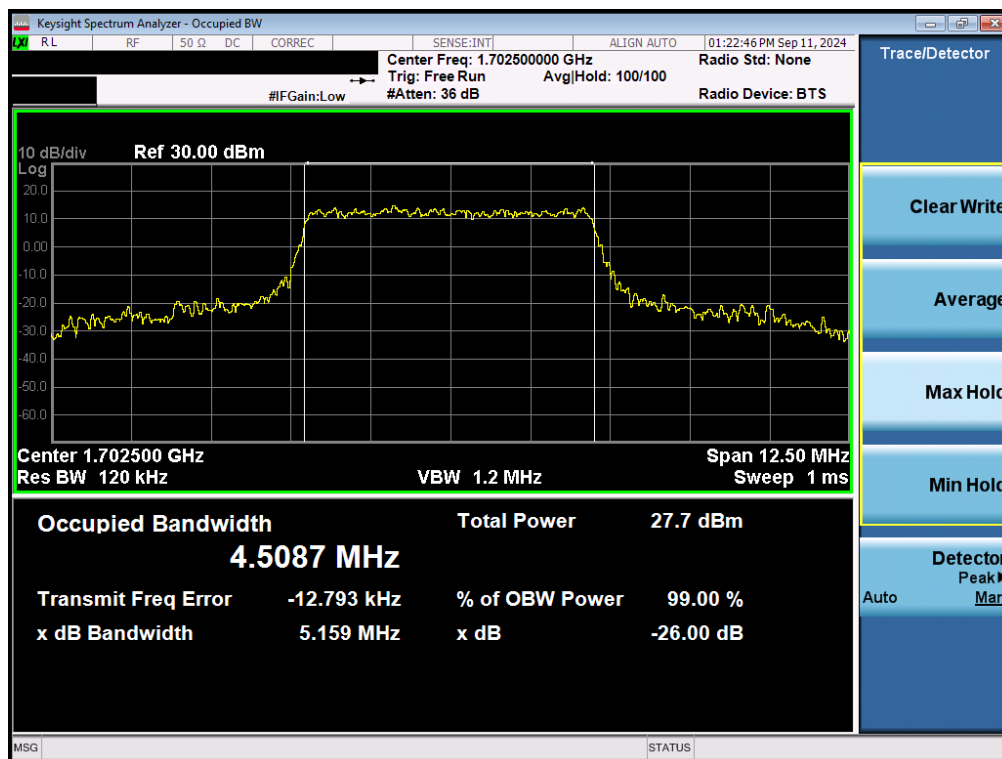


Plot 7-168. Occupied Bandwidth Plot (NR Band n70 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-169. Occupied Bandwidth Plot (NR Band n70 - 5.0MHz CP-OFDM QPSK - Full RB – ANT2)

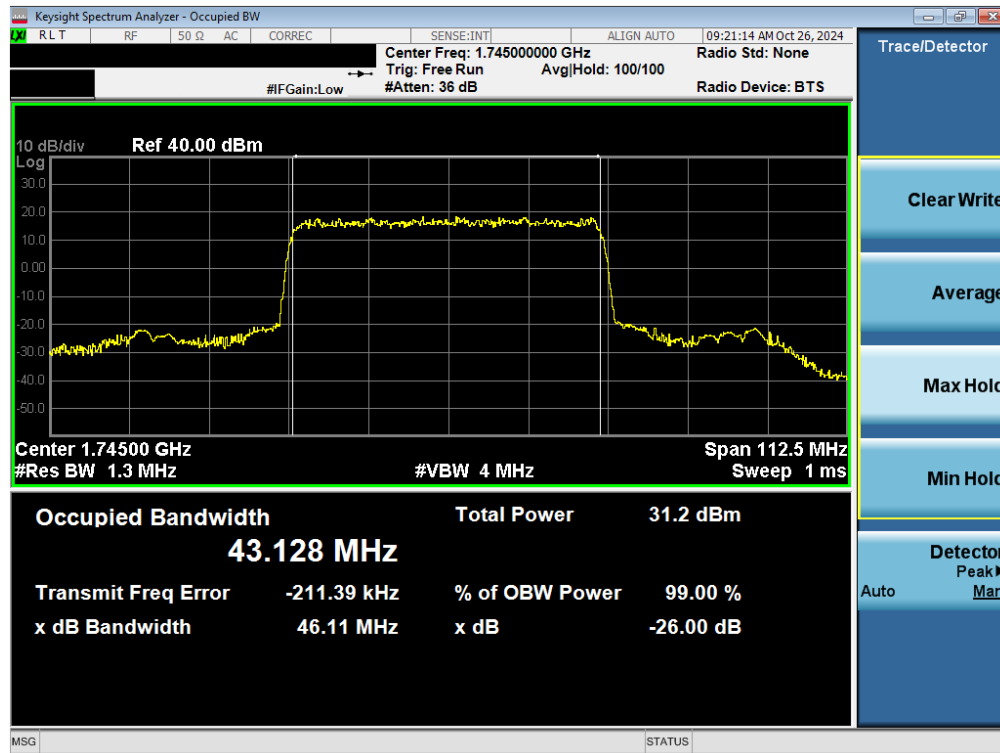
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 109 of 276



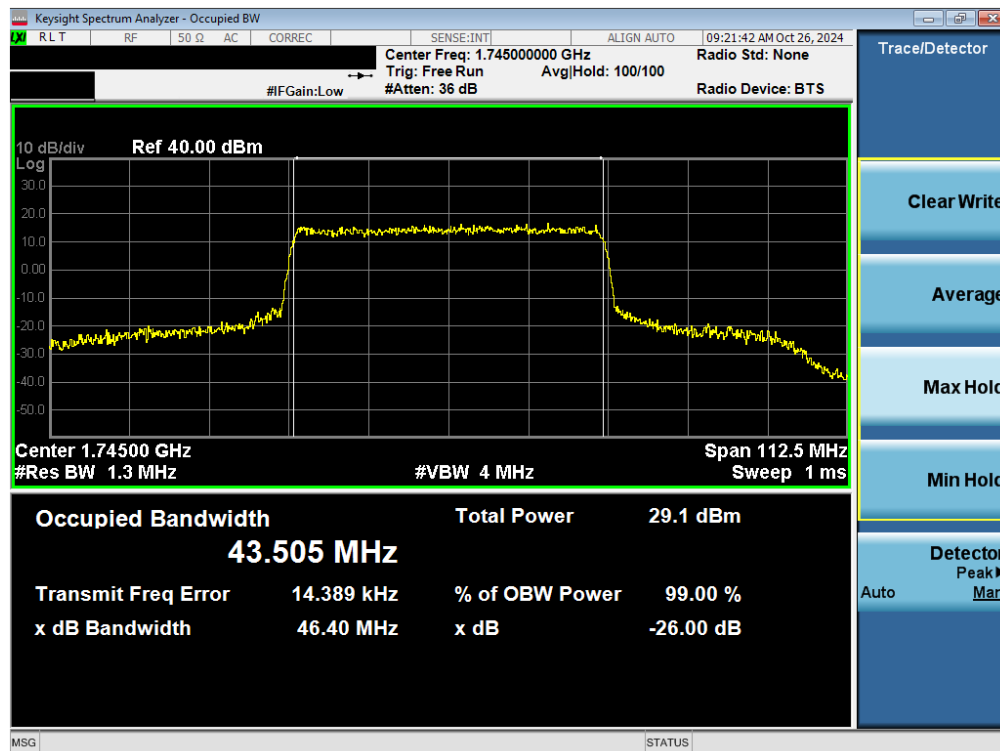
Plot 7-170. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 110 of 276

NR Band n66 – ANT2

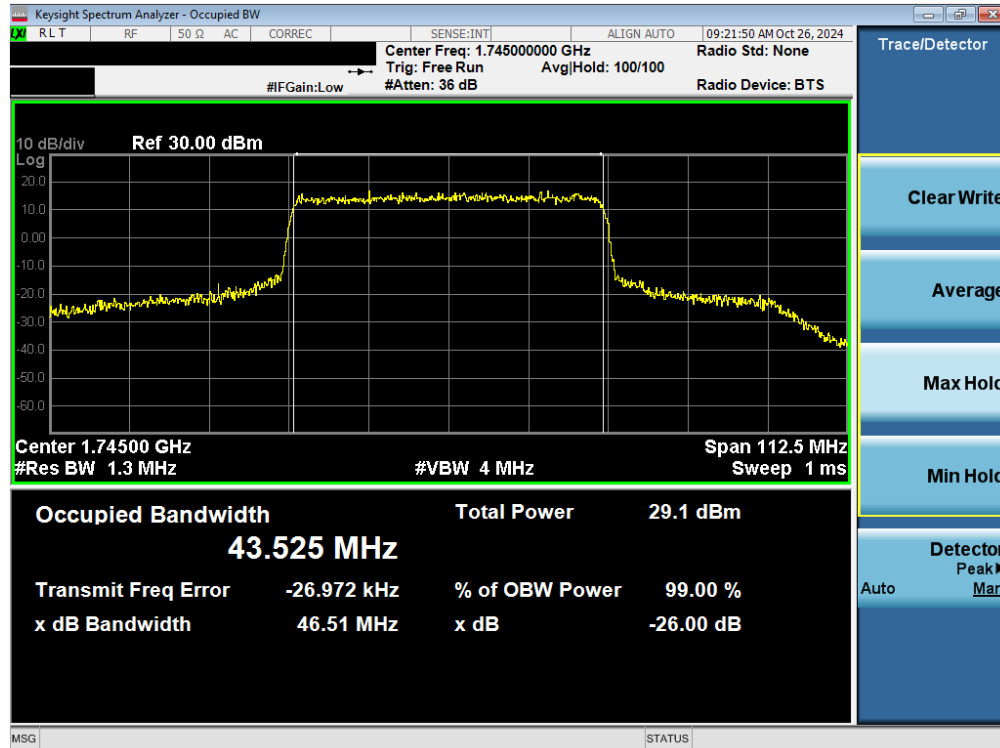


Plot 7-171. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

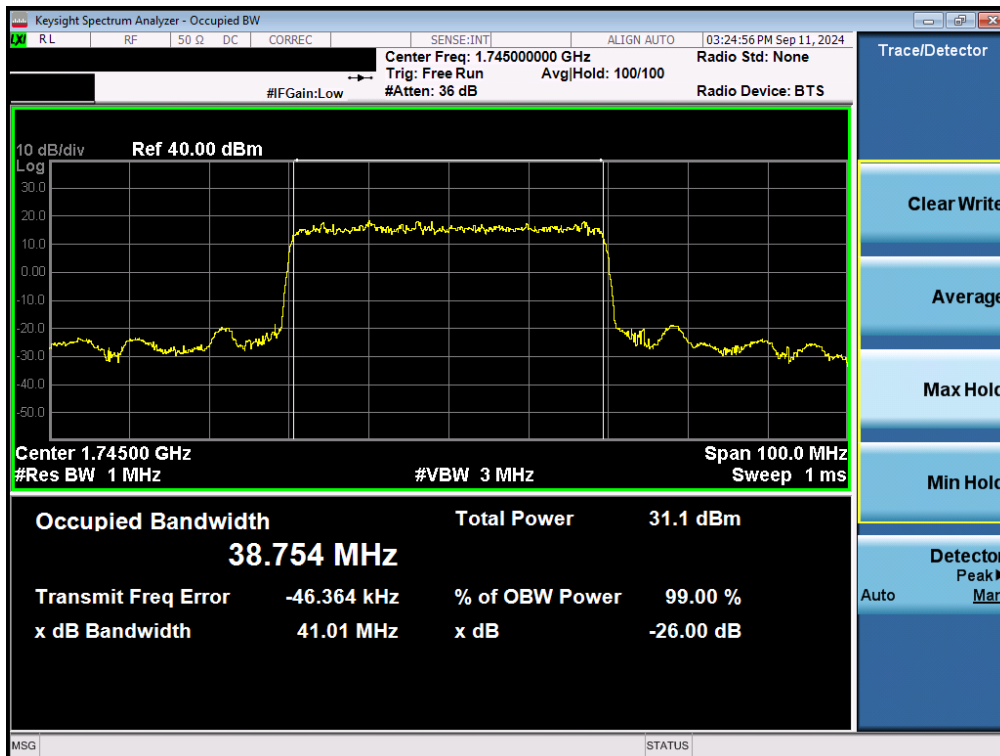


Plot 7-172. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 111 of 276

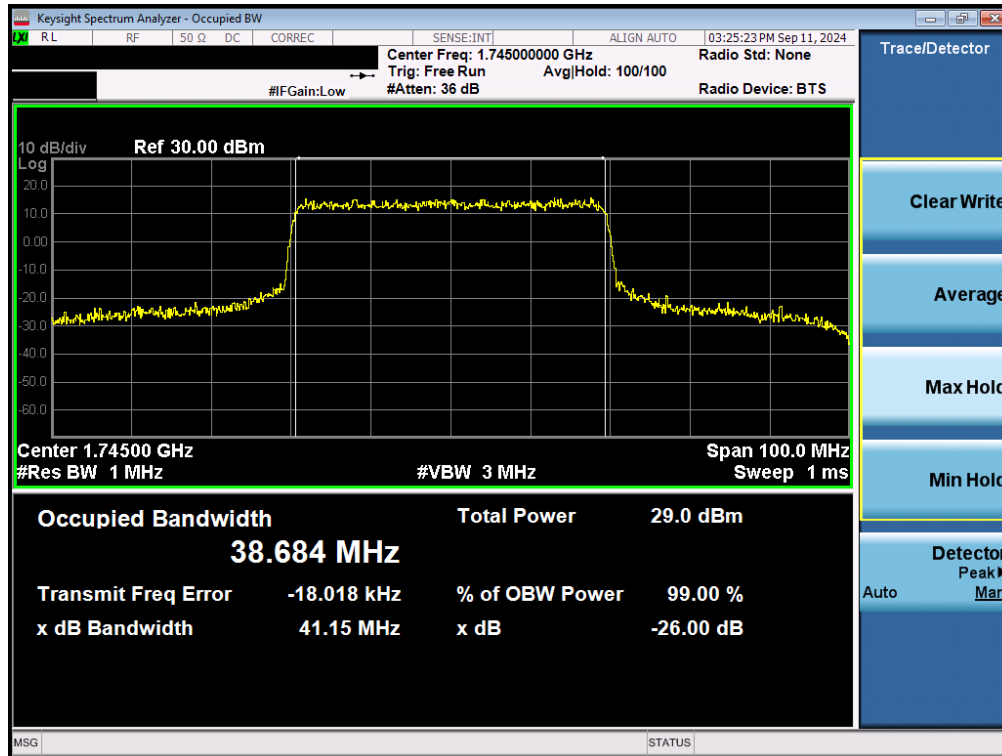


Plot 7-173. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz CP-OFDM 16QAM - Full RB – ANT2)

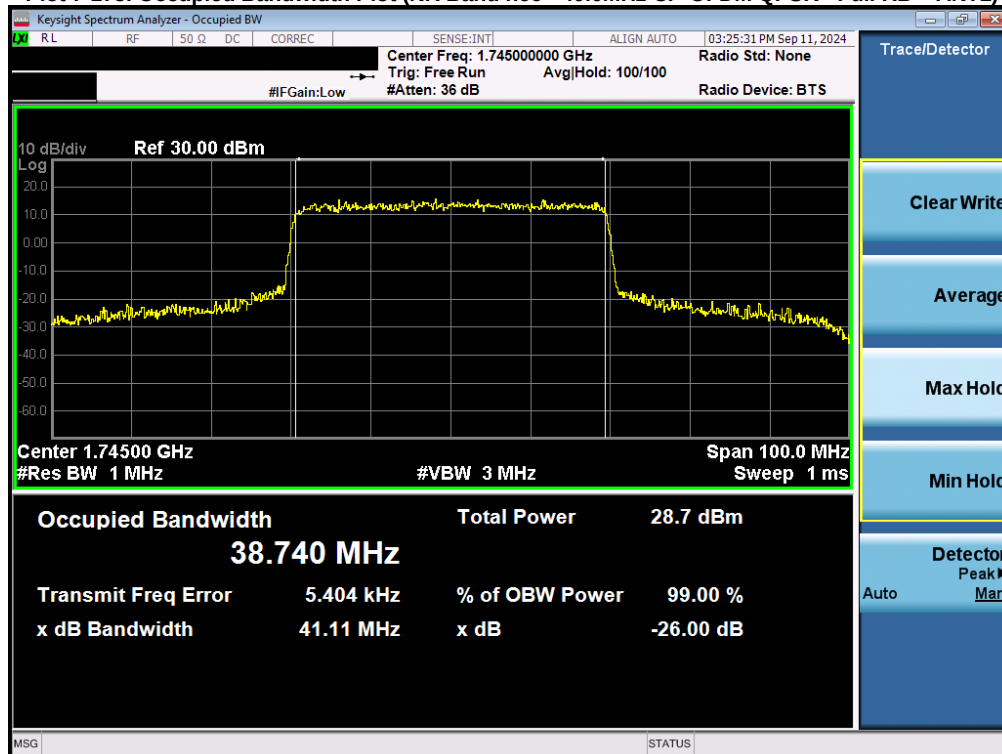


Plot 7-174. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 112 of 276

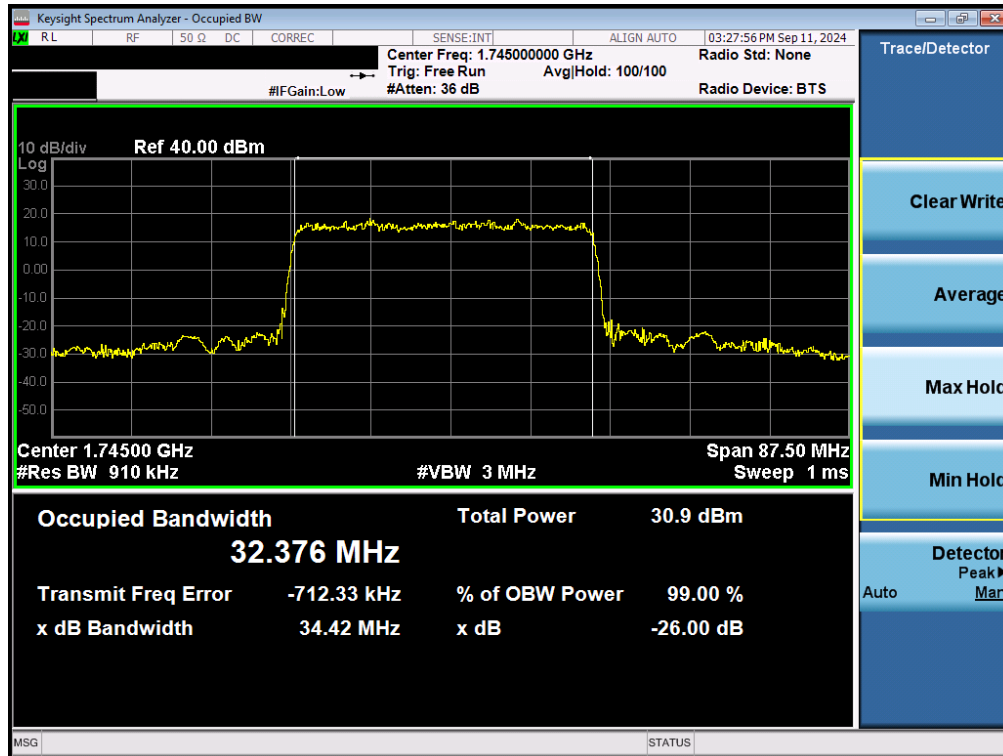


Plot 7-175. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – ANT2)

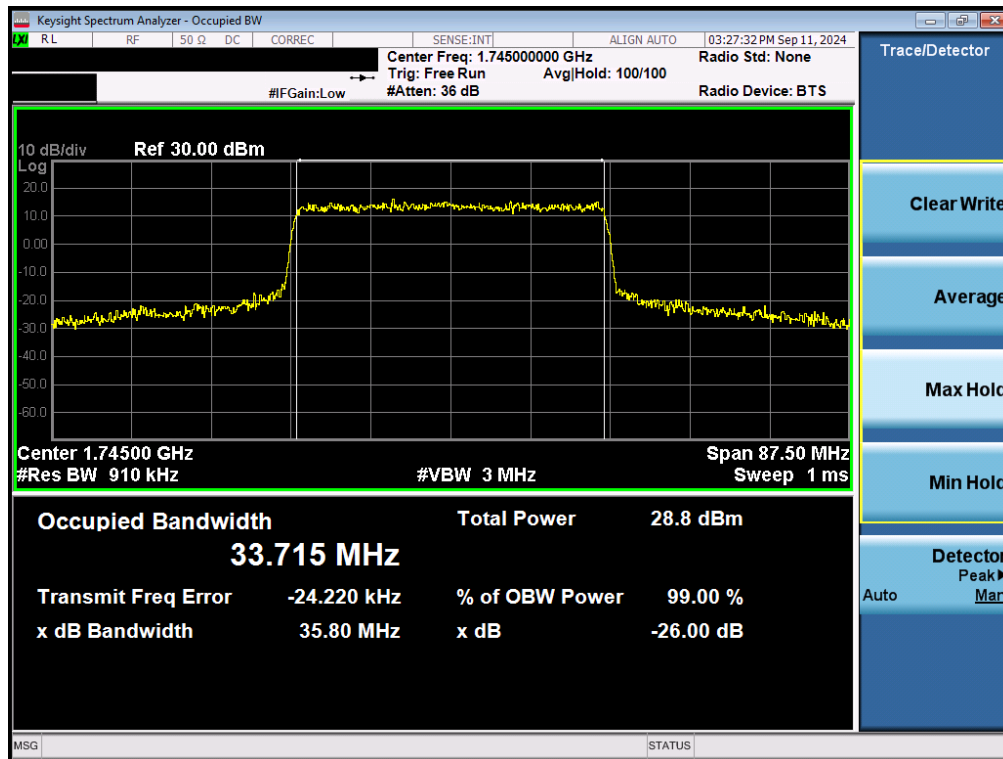


Plot 7-176. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 113 of 276

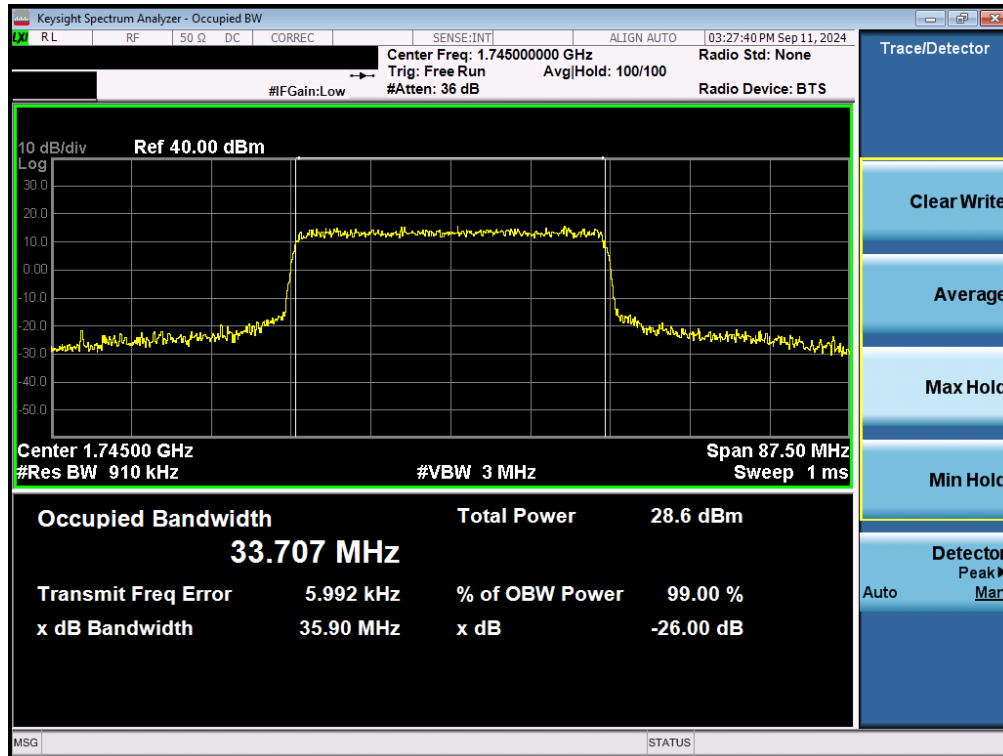


Plot 7-177. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

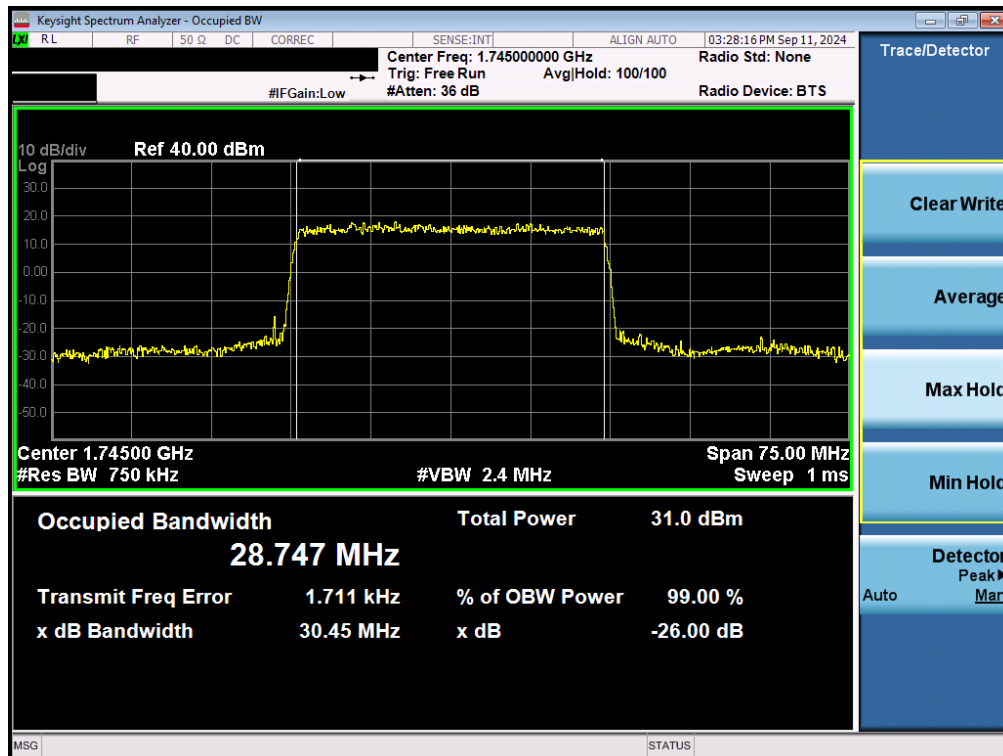


Plot 7-178. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 114 of 276

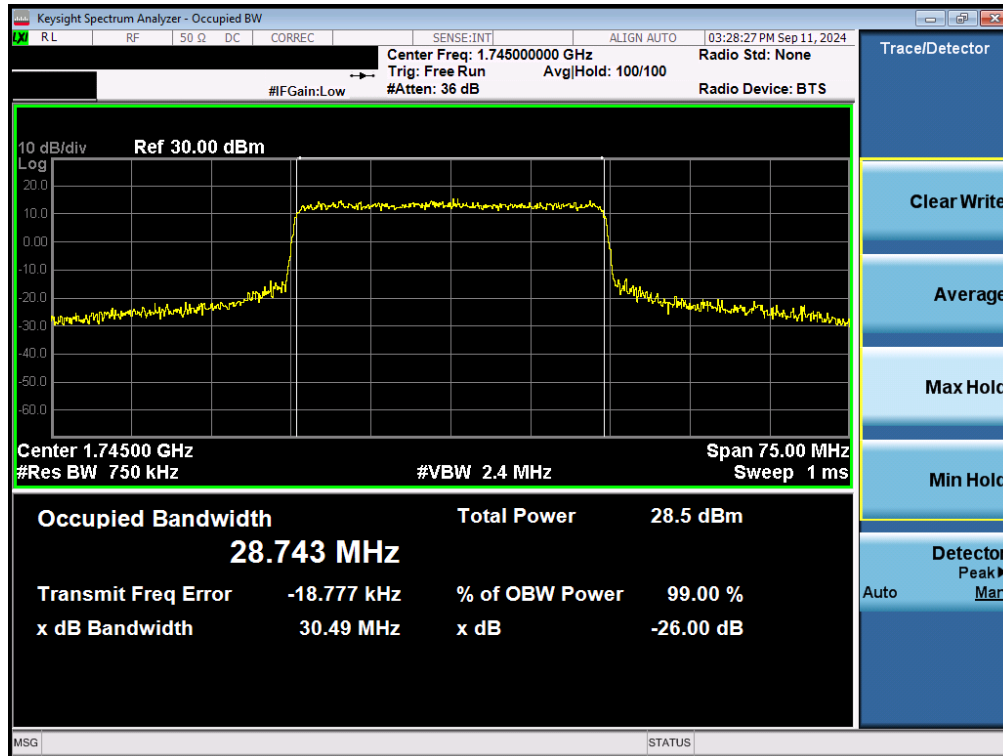


Plot 7-179. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM 16QAM - Full RB – ANT2)

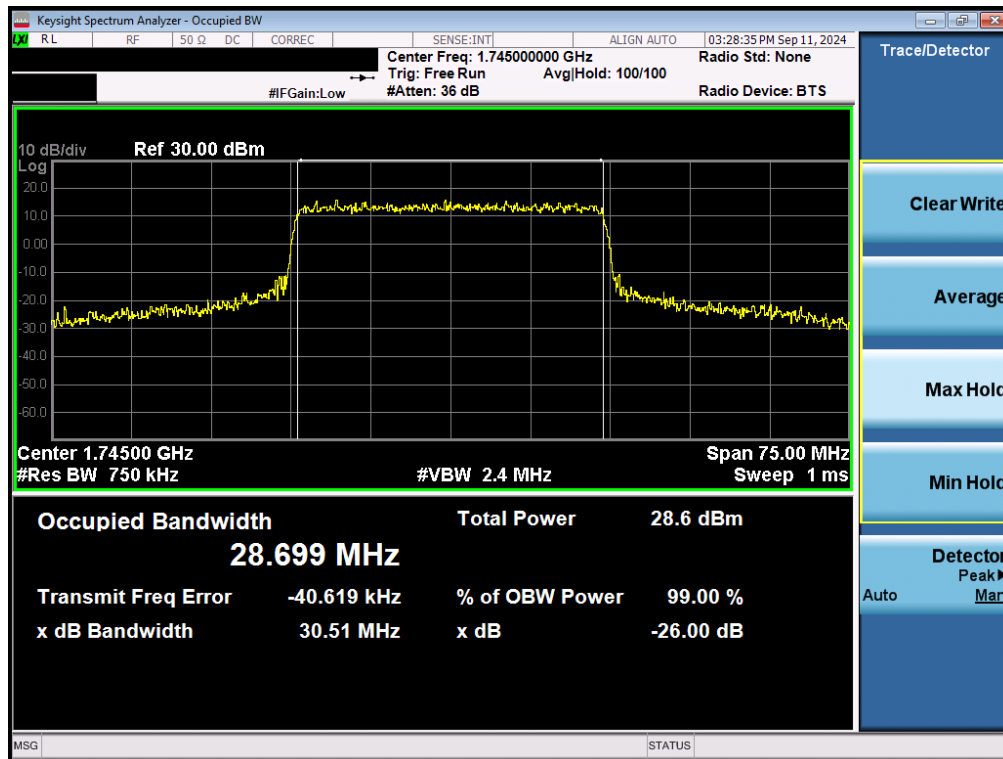


Plot 7-180. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 115 of 276

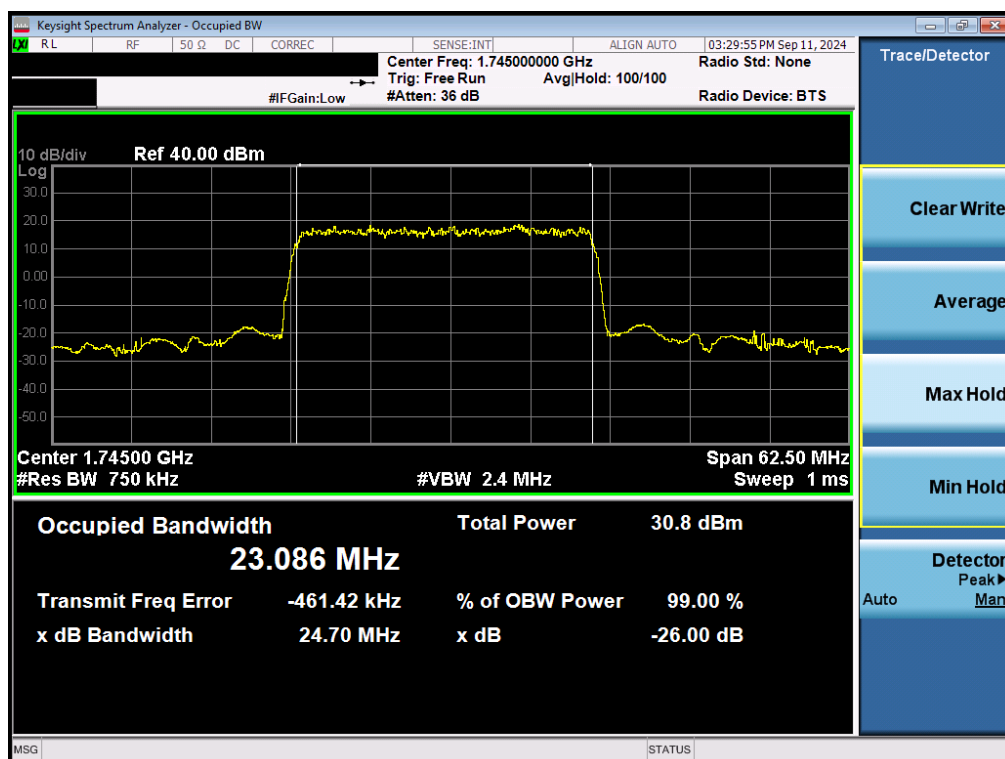


Plot 7-181. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – ANT2)

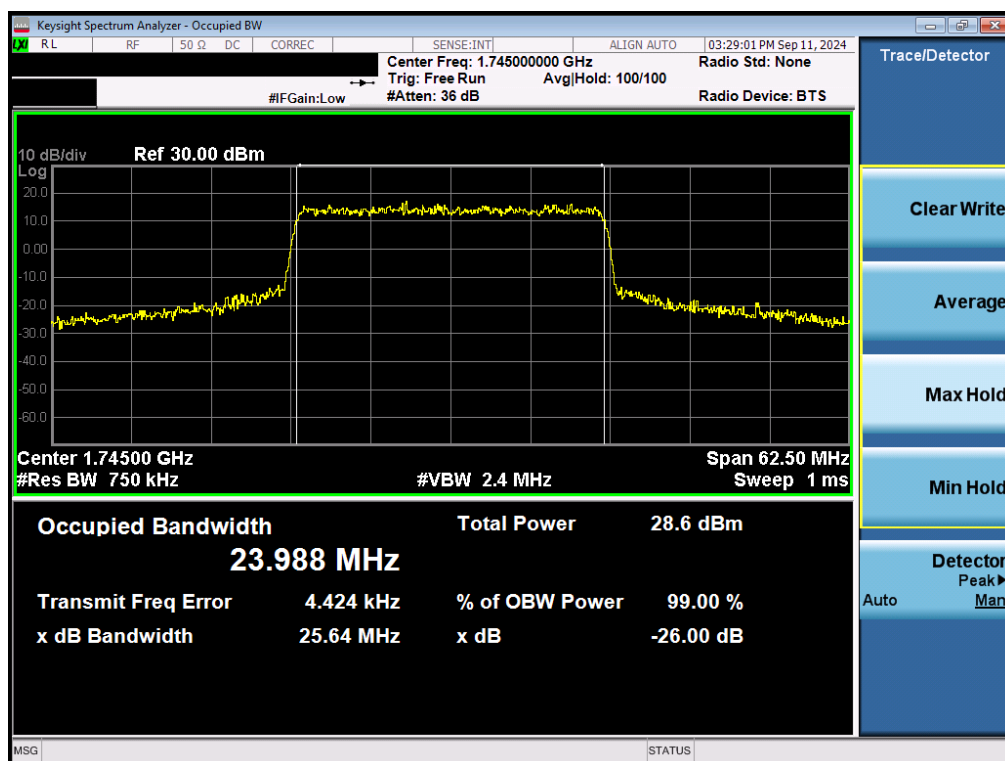


Plot 7-182. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 116 of 276

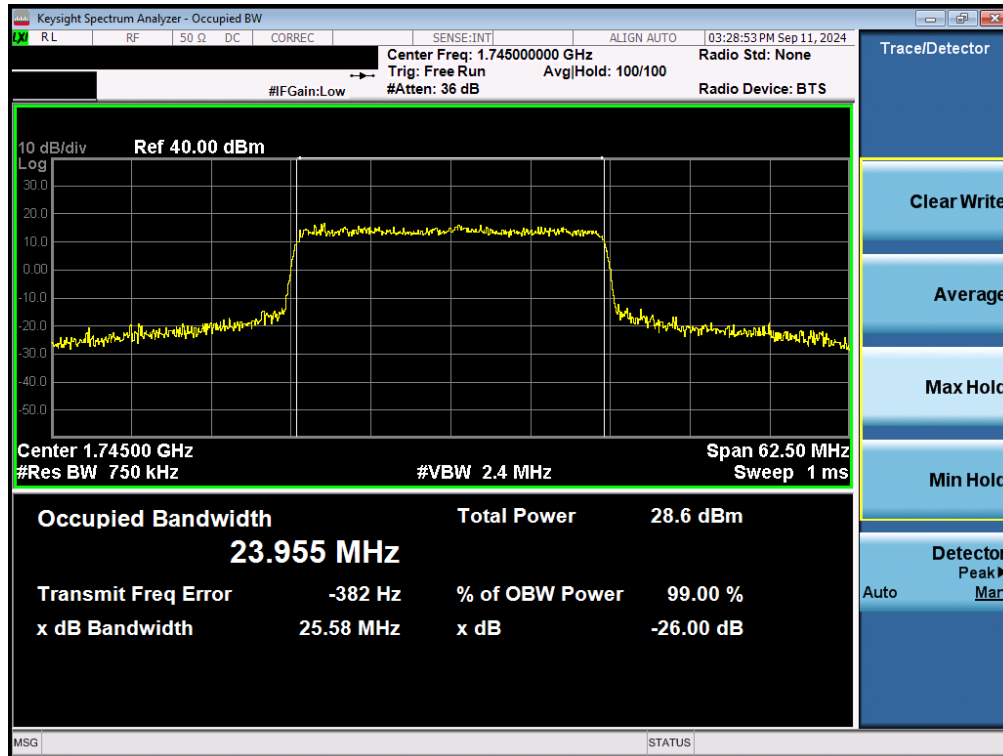


Plot 7-183. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

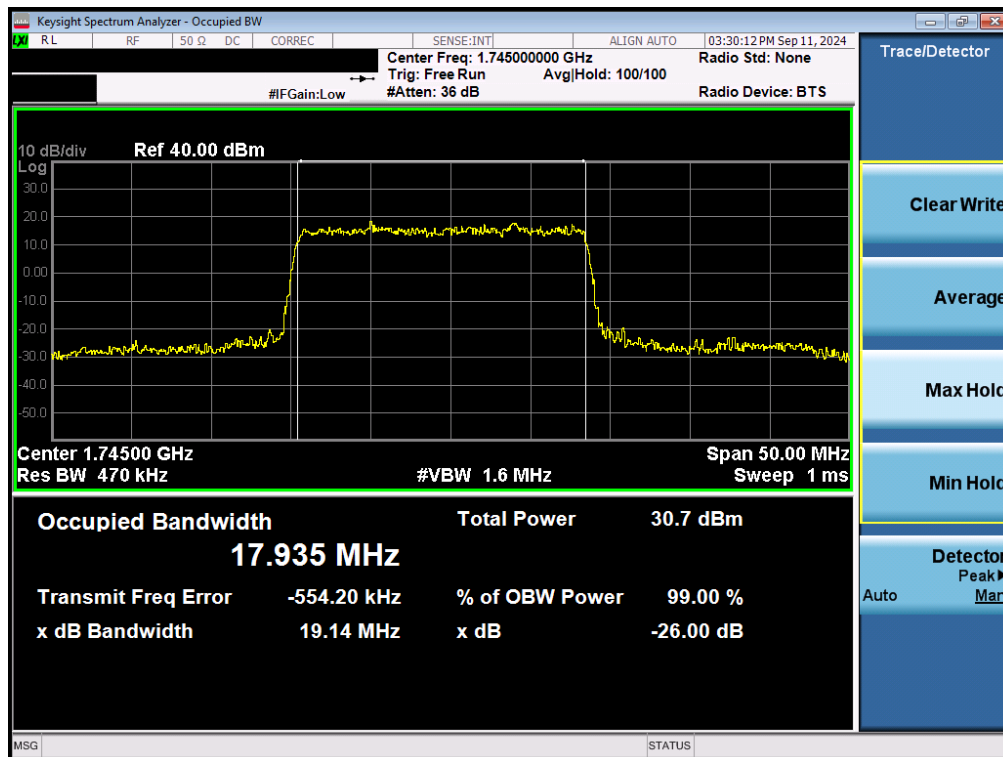


Plot 7-184. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 117 of 276

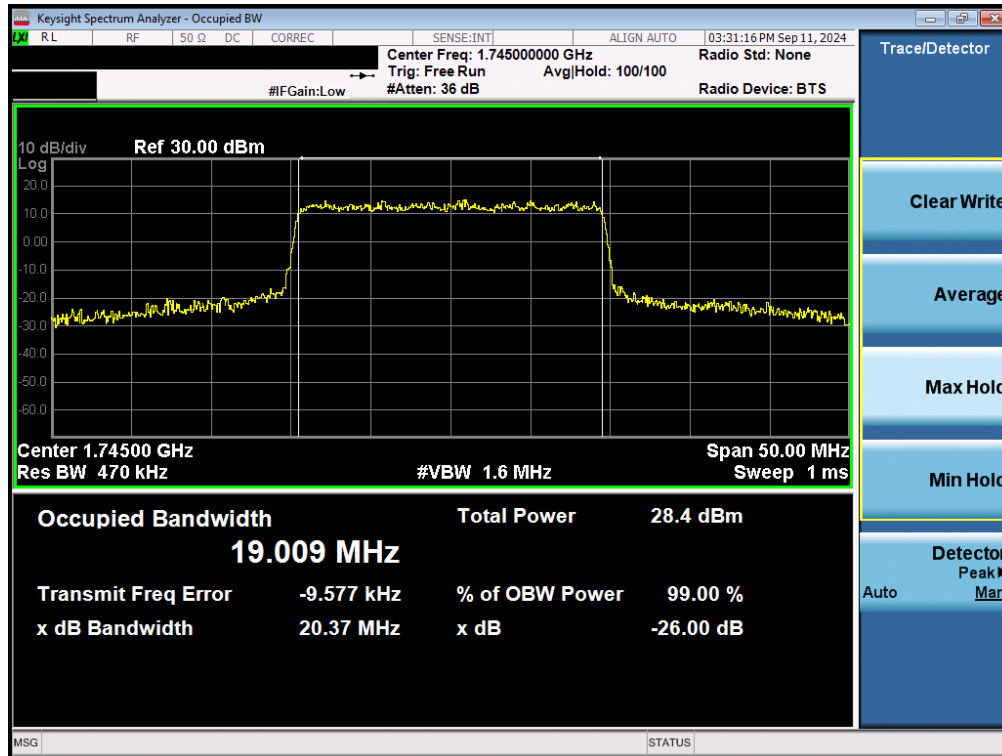


Plot 7-185. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB – ANT2)

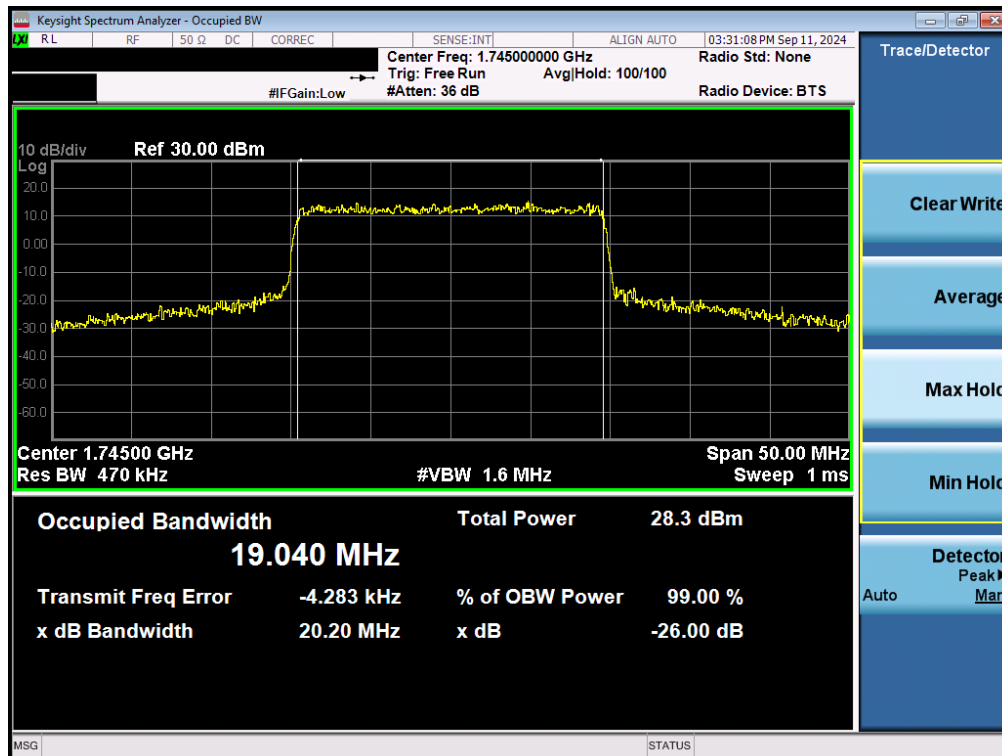


Plot 7-186. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 118 of 276

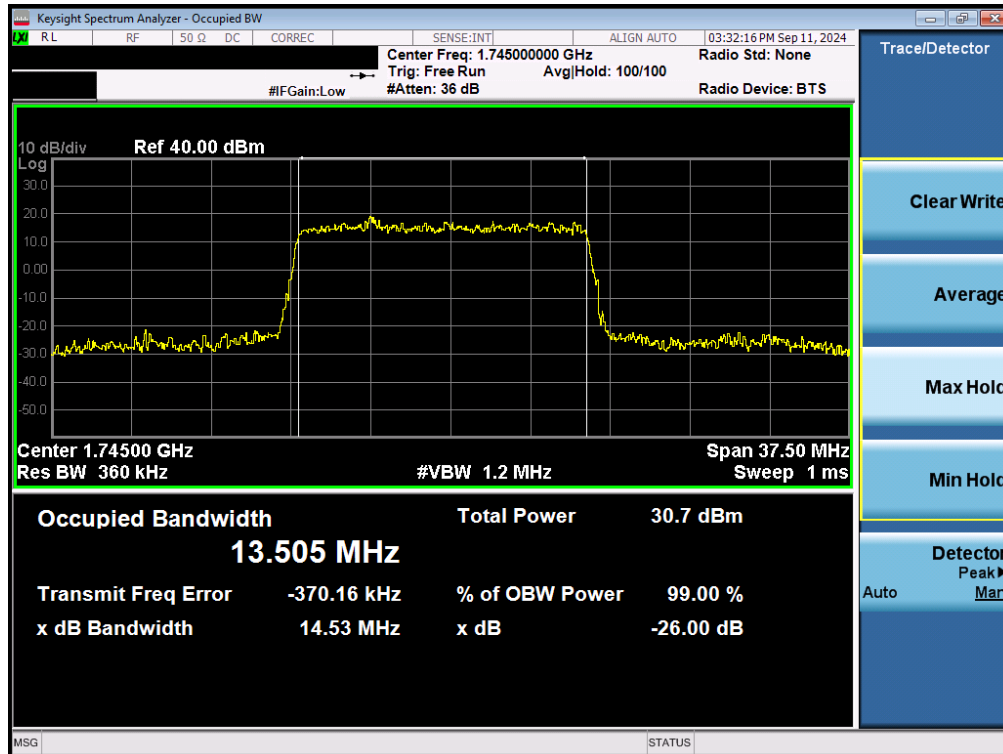


Plot 7-187. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – ANT2)

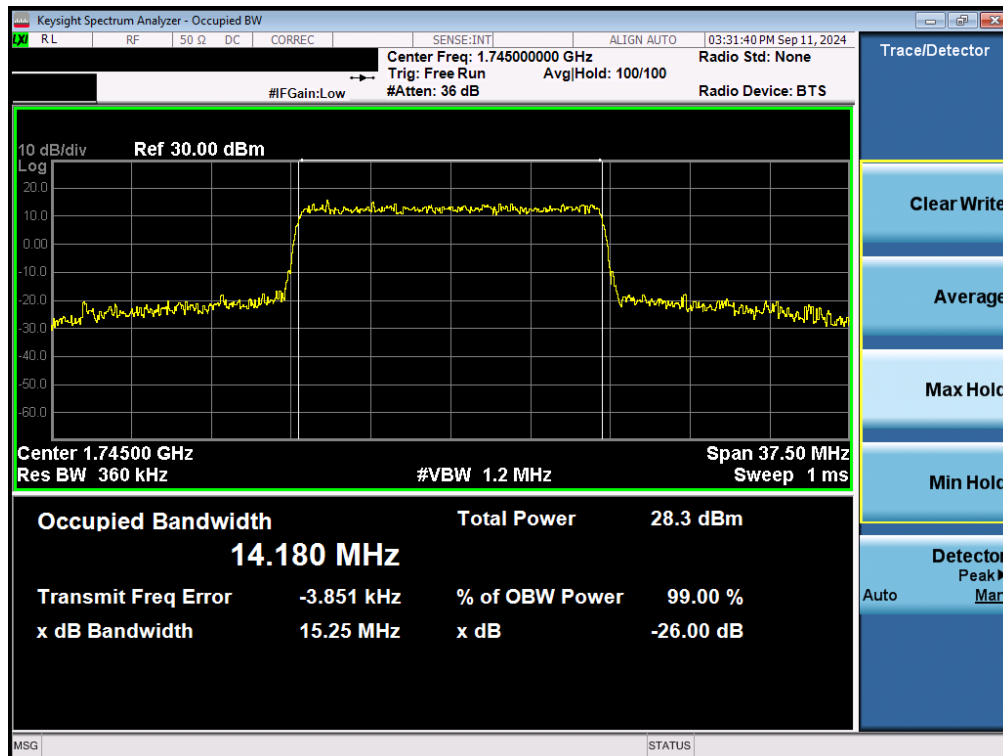


Plot 7-188. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 119 of 276

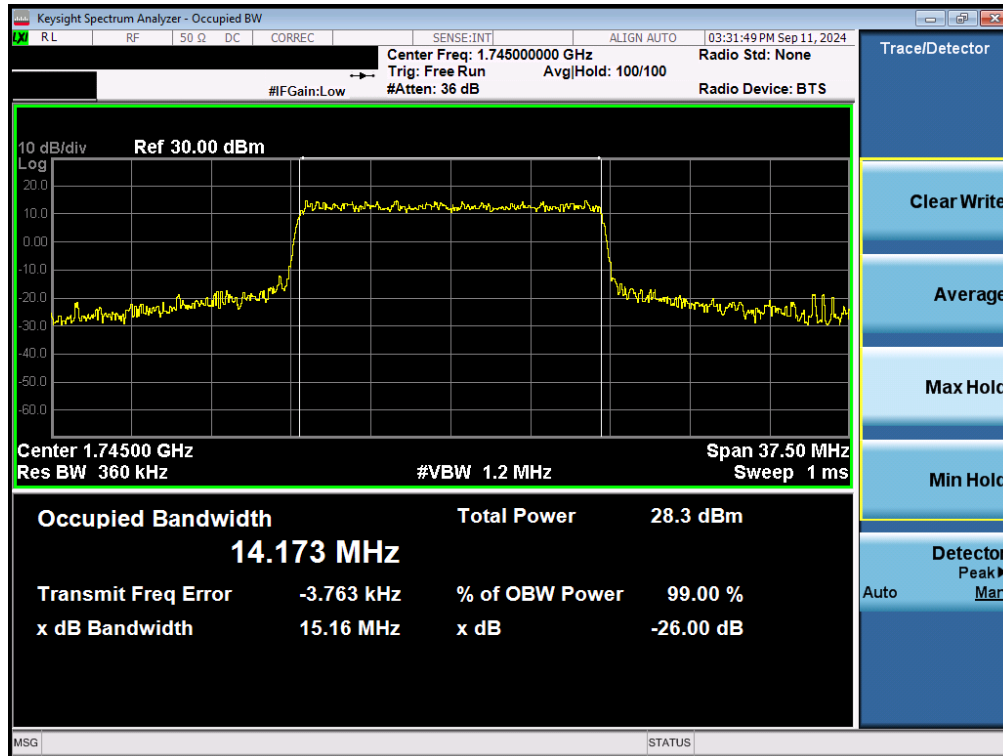


Plot 7-189. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

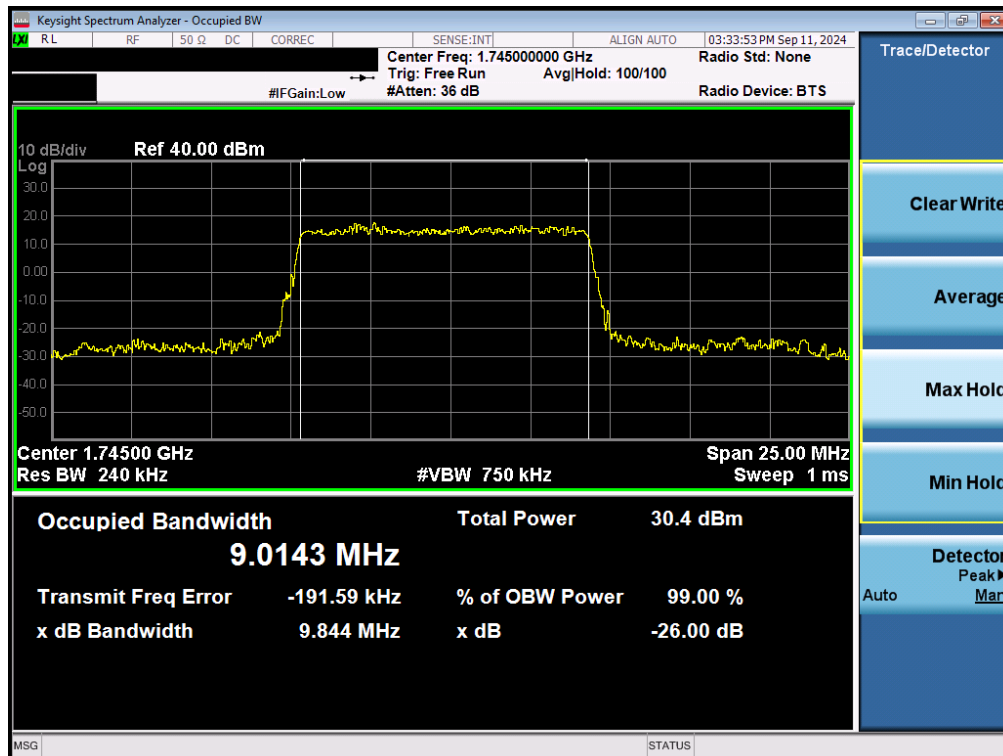


Plot 7-190. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 120 of 276

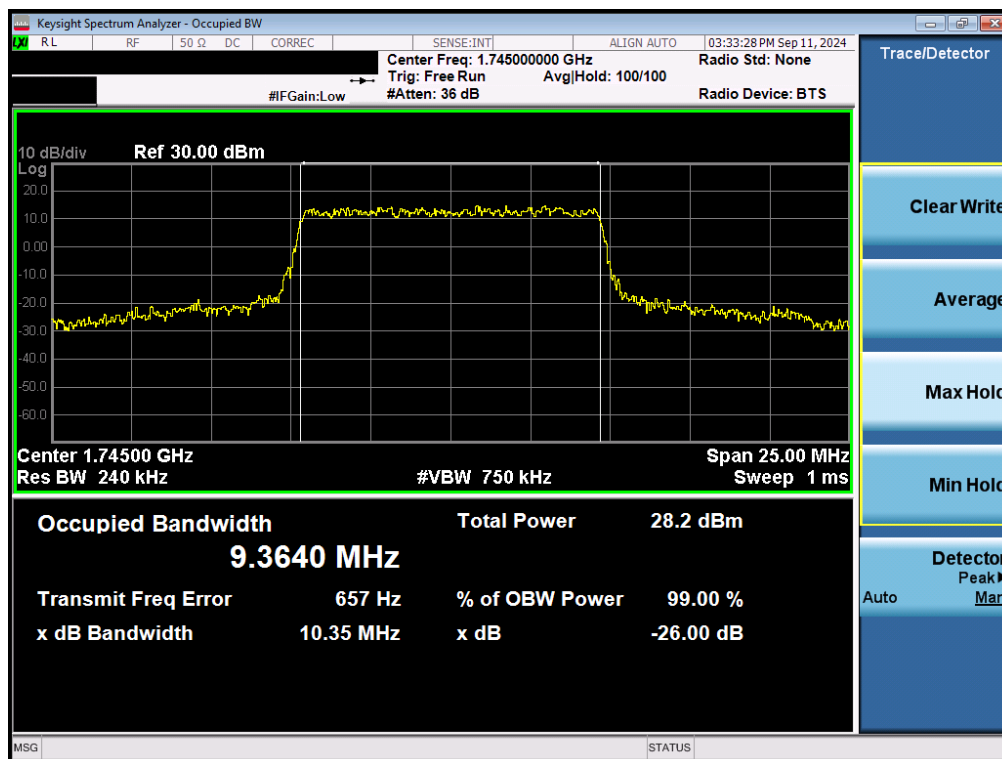


Plot 7-191. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – ANT2)

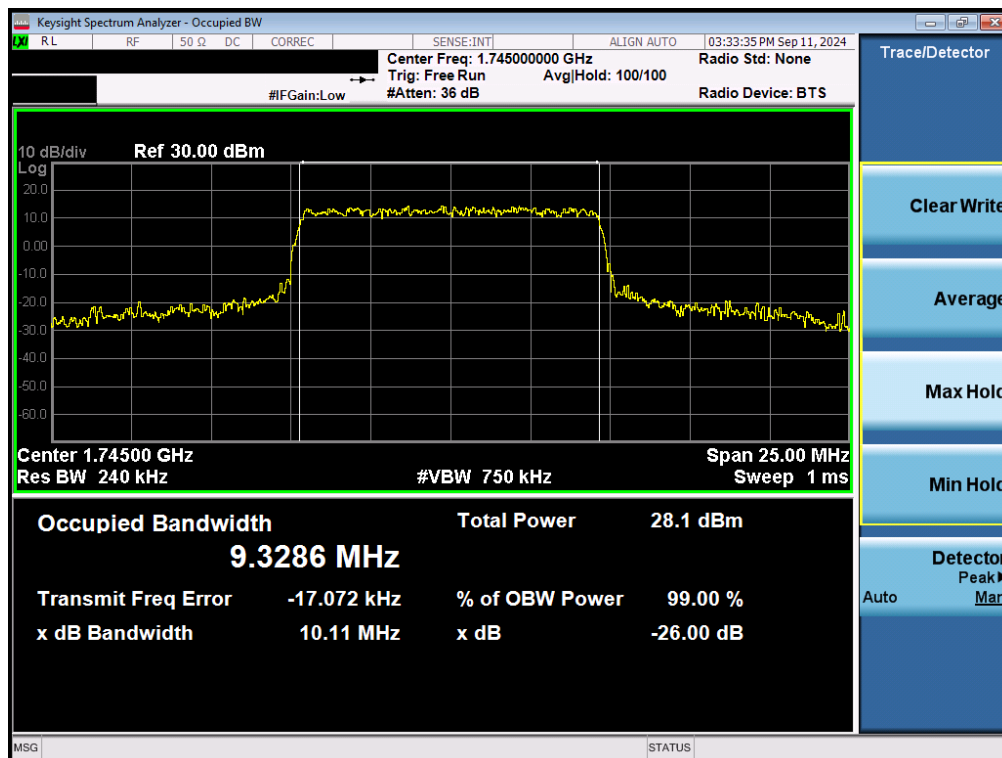


Plot 7-192. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 121 of 276

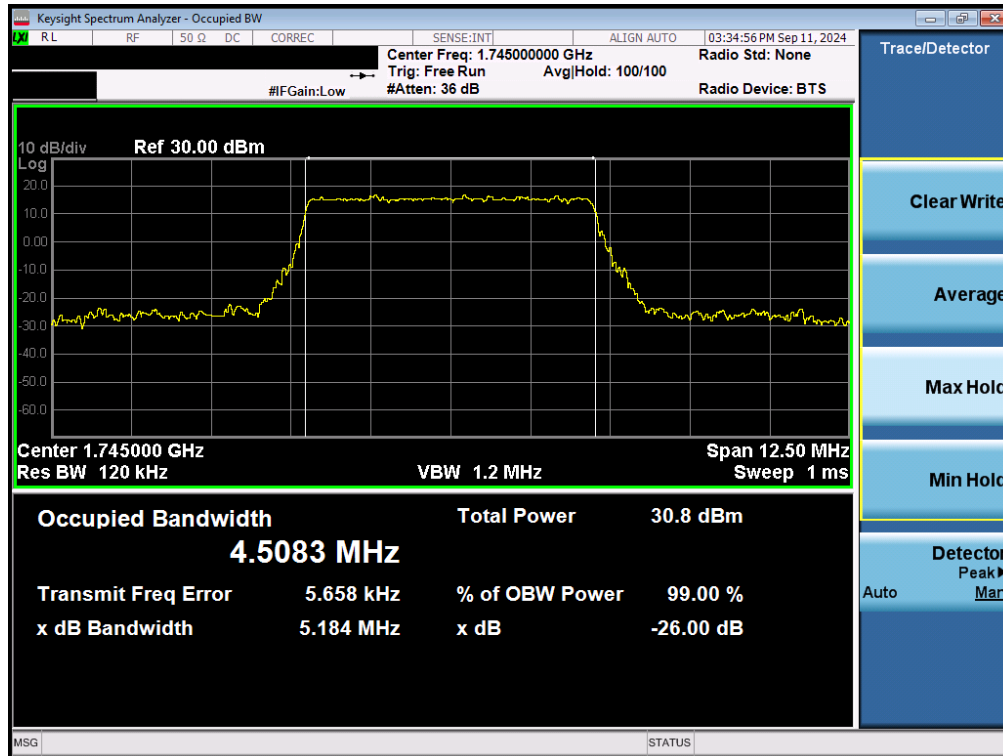


Plot 7-193. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – ANT2)

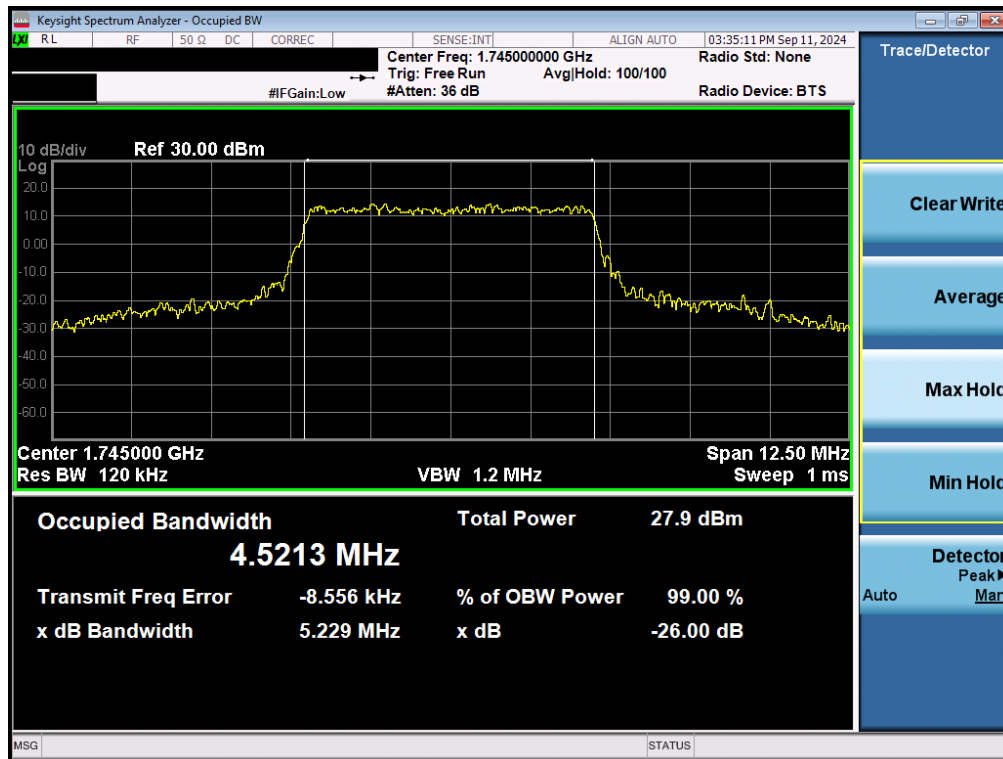


Plot 7-194. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 122 of 276

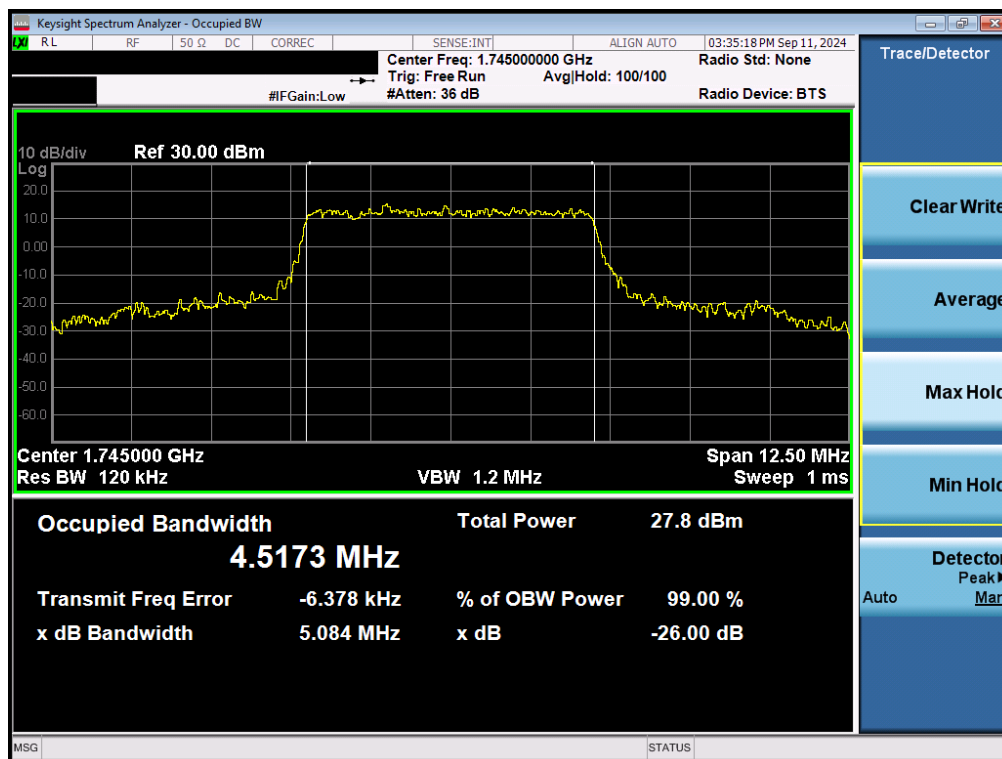


Plot 7-195. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-196. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 123 of 276



Plot 7-197. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 124 of 276

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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 of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW $\geq$ 100kHz
3. VBW $\geq$ 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

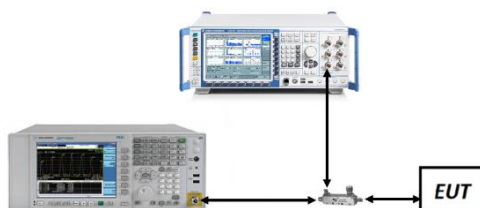


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
2. 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: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 125 of 276

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	30.0 - 662.0	-63.16	-13	-50.16
		Low	698.0 - 1000.0	-65.74	-13	-52.74
		Low	1000.0 - 10000.0	-46.24	-13	-33.24
		Mid	30.0 - 663.0	-66.07	-13	-53.07
		Mid	698.0 - 1000.0	-65.50	-13	-52.50
		Mid	1000.0 - 10000.0	-45.32	-13	-32.32
		High	30.0 - 663.0	-66.24	-13	-53.24
		High	699.0 - 1000.0	-64.21	-13	-51.21
		High	1000.0 - 10000.0	-44.74	-13	-31.74
LTE Band 12	10 MHz	Low	30.0 - 697.9	-62.56	-13	-49.56
		Low	716.0 - 1000.0	-65.90	-13	-52.90
		Low	1000.0 - 10000.0	-43.65	-13	-30.65
		Mid	30.0 - 698.0	-64.74	-13	-51.74
		Mid	716.0 - 1000.0	-65.56	-13	-52.56
		Mid	1000.0 - 10000.0	-43.91	-13	-30.91
		High	30.0 - 697.9	-65.28	-13	-52.28
		High	716.1 - 1000.0	-60.95	-13	-47.95
		High	1000.0 - 10000.0	-43.94	-13	-30.94
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-65.65	-35	-30.65
		Mid	787.0 - 1000.0	-65.34	-13	-52.34
		Mid	1000.0 - 20000.0	-46.99	-13	-33.99

Table 7-8. Conducted Spurious Emissions Results – Ant1

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	35 MHz	Mid	30.0 - 663.0	-64.51	-13	-51.51
		Mid	698.0 - 1000.0	-63.73	-13	-50.73
		Mid	1000.0 - 10000.0	-46.12	-13	-33.12
NR Band n12	15 MHz	Low	30.0 - 698.0	-61.56	-13	-48.56
		Low	716.0 - 1000.0	-62.38	-13	-49.38
		Low	1000.0 - 10000.0	-45.33	-13	-32.33
		Mid	30.0 - 698.0	-62.03	-13	-49.03
		Mid	716.0 - 1000.0	-62.84	-13	-49.84
		Mid	1000.0 - 10000.0	-44.25	-13	-31.25
		High	30.0 - 698.0	-61.44	-13	-48.44
		High	716.0 - 1000.0	-62.43	-13	-49.43
		High	1000.0 - 10000.0	-45.13	-13	-32.13

Table 7-9. Conducted Spurious Emissions Results – Ant1

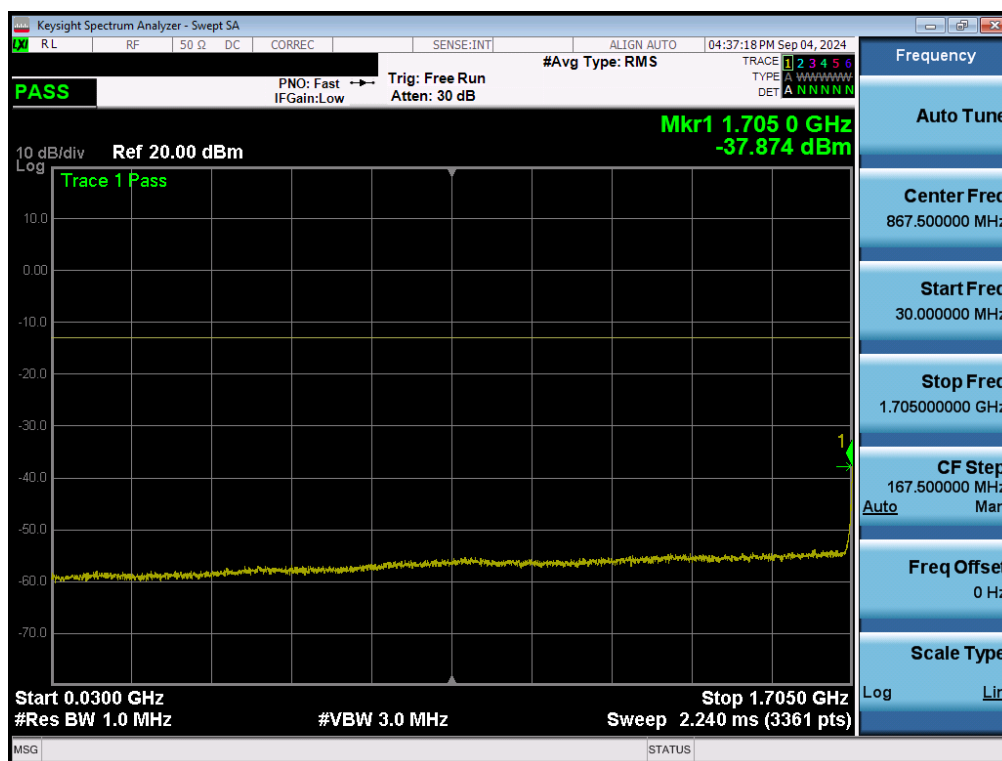
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 126 of 276

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-37.87	-13	-24.87
		Low	1755.0 - 10000.0	-46.97	-13	-33.97
		Low	10000.0 - 20000.0	-63.07	-13	-50.07
		Mid	30.0 - 1710.0	-53.75	-13	-40.75
		Mid	1755.0 - 10000.0	-47.49	-13	-34.49
		Mid	10000.0 - 20000.0	-63.30	-13	-50.30
		High	30.0 - 1710.0	-53.55	-13	-40.55
		High	1760.0 - 10000.0	-39.86	-13	-26.86
		High	10000.0 - 20000.0	-63.13	-13	-50.13
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-52.88	-13	-39.88
		Low	698.0 - 1000.0	-47.48	-13	-34.48
		Low	1000.0 - 10000.0	-62.95	-13	-49.95
		Mid	30.0 - 663.0	-53.60	-13	-40.60
		Mid	698.0 - 1000.0	-47.39	-13	-34.39
		Mid	1000.0 - 10000.0	-63.28	-13	-50.28
		High	30.0 - 663.0	-53.85	-13	-40.85
		High	698.0 - 1000.0	-47.61	-13	-34.61
		High	1000.0 - 10000.0	-63.06	-13	-50.06
NR Band n70	15 MHz	Mid	30.0 - 1695.0	-49.62	-13	-36.62
		Mid	1710.0 - 10000.0	-47.39	-13	-34.39
		Mid	10000.0 - 20000.0	-63.18	-13	-50.18
NR Band n66	45 MHz	Low	30.0 - 1710.0	-53.00	-13	-40.00
		Low	1780.0 - 10000.0	-48.08	-13	-35.08
		Low	10000.0 - 20000.0	-61.23	-13	-48.23
		Mid	30.0 - 1710.0	-53.32	-13	-40.32
		Mid	1780.0 - 10000.0	-48.86	-13	-35.86
		Mid	10000.0 - 20000.0	-61.71	-13	-48.71
		High	30.0 - 1710.0	-53.12	-13	-40.12
		High	1780.0 - 10000.0	-48.93	-13	-35.93
		High	10000.0 - 20000.0	-61.63	-13	-48.63

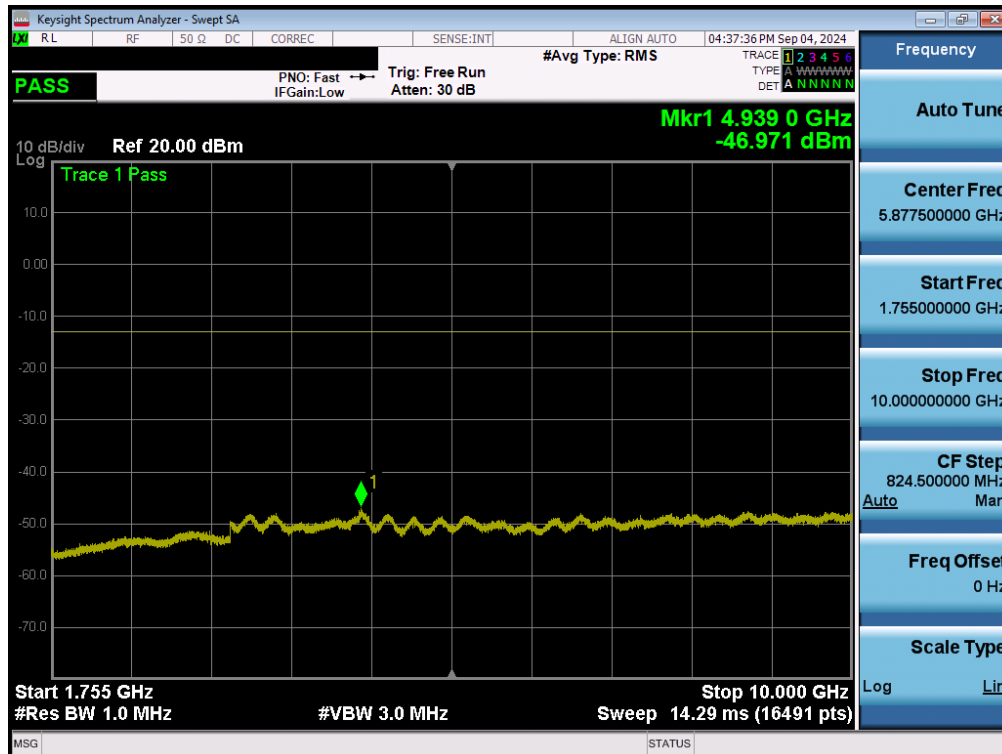
Table 7-10. Conducted Spurious Emissions Results – Ant1

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 127 of 276

WCDMA-AWS – ANT1

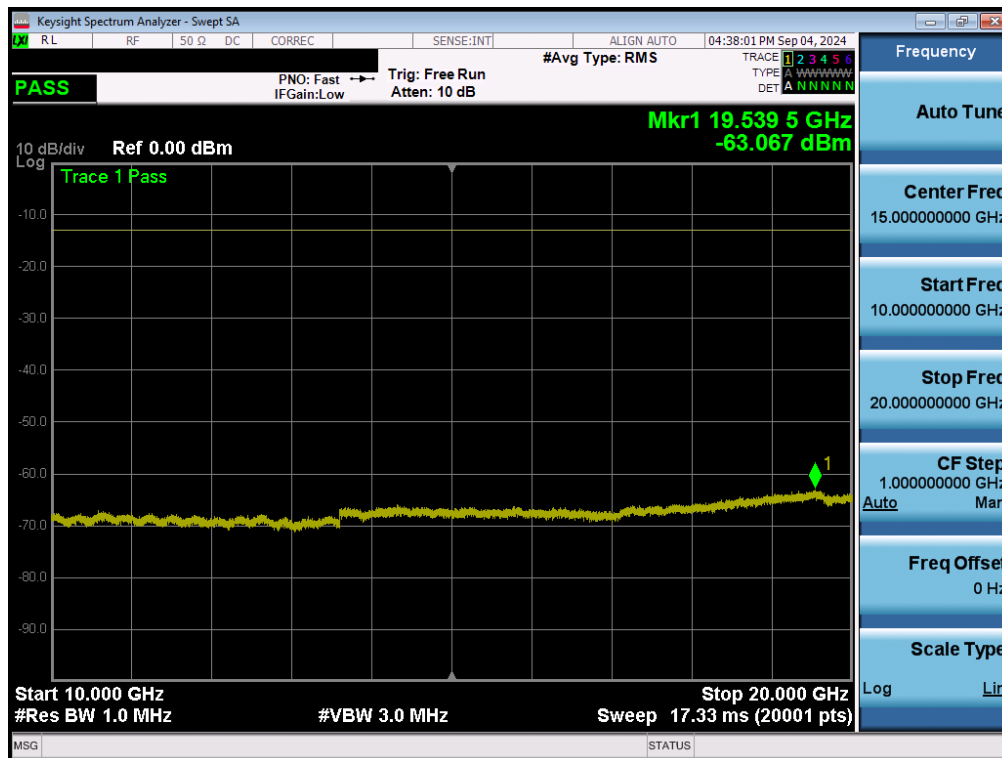


Plot 7-198. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

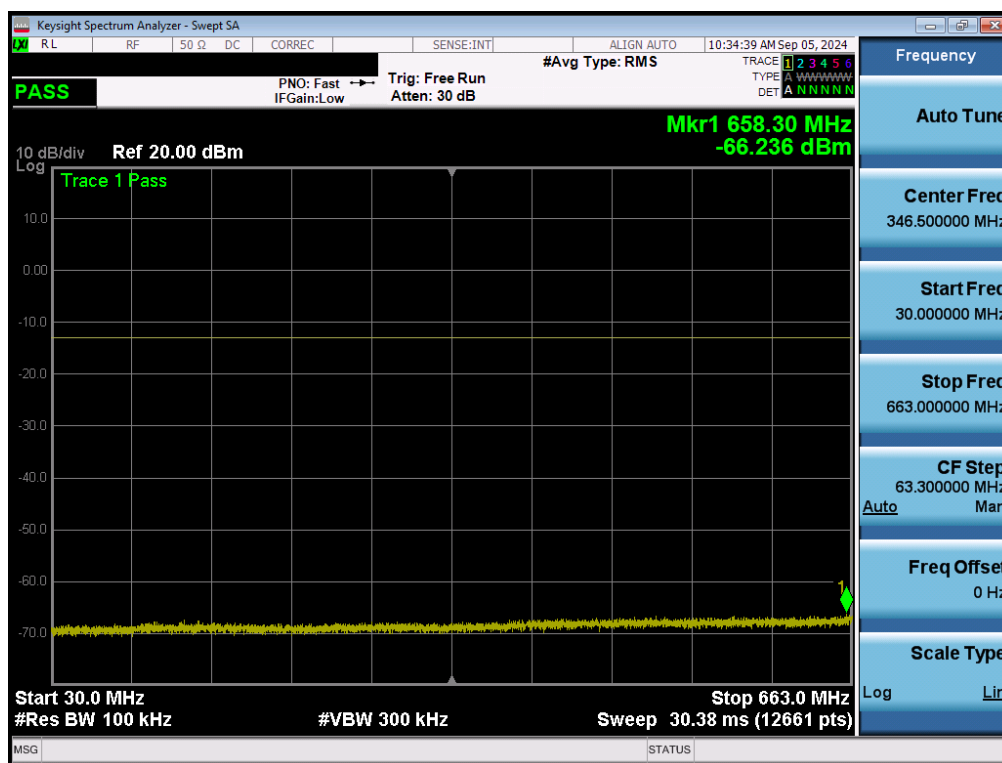


Plot 7-199. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

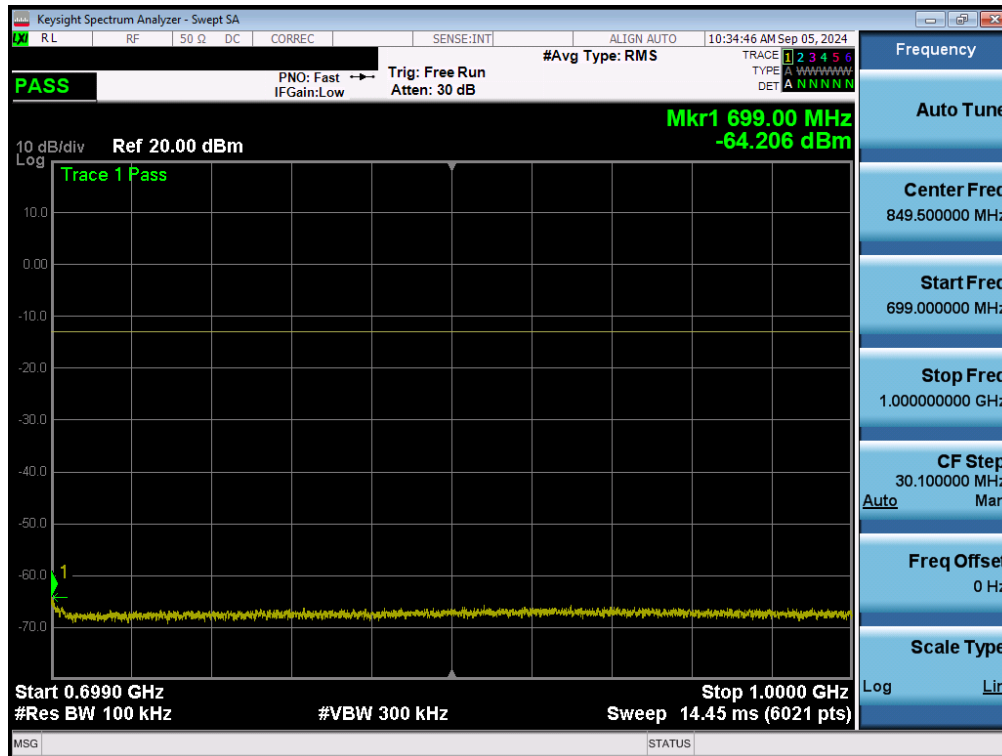
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 128 of 276



LTE Band 71 – ANT1

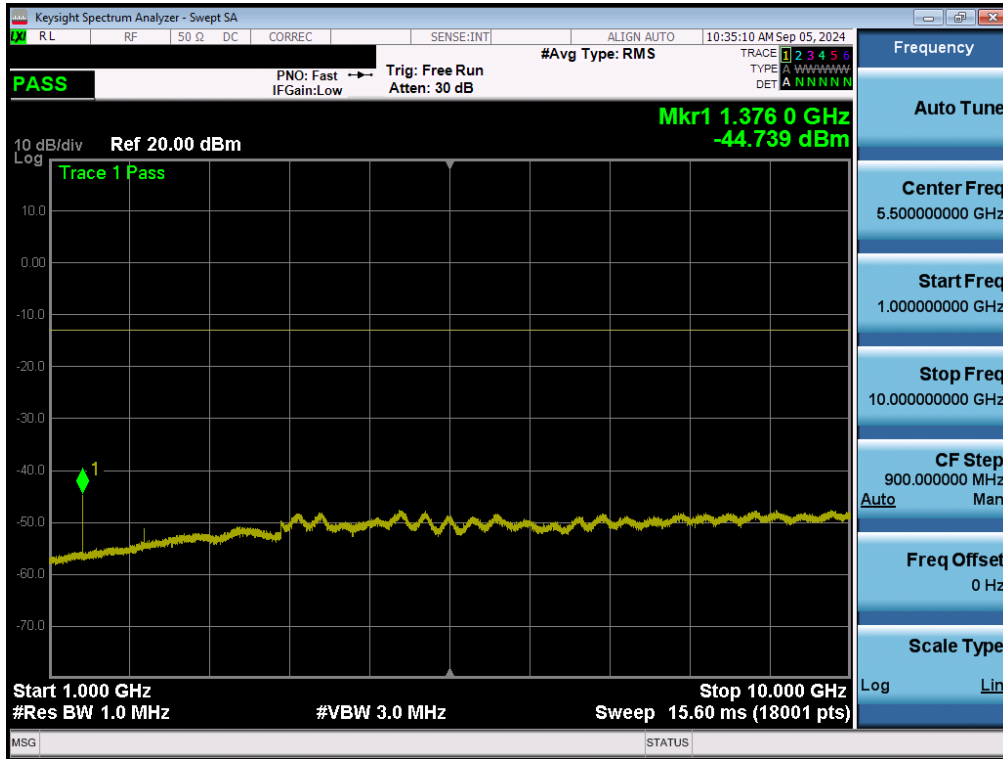


Plot 7-201. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT1)



Plot 7-202. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT1)

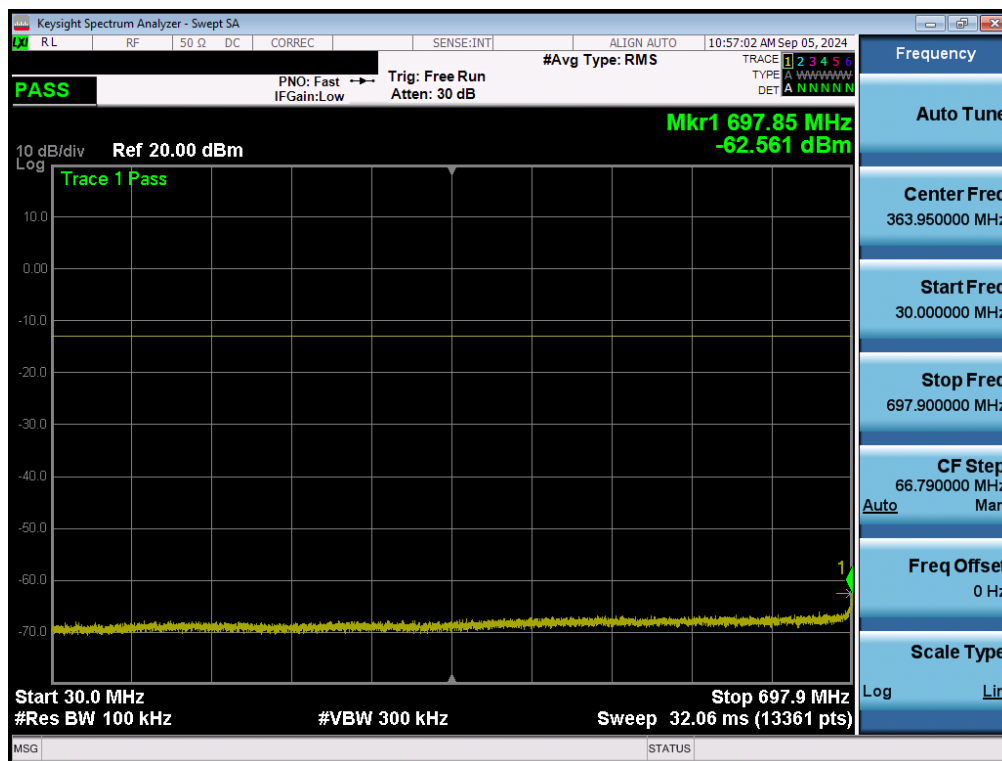
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 130 of 276



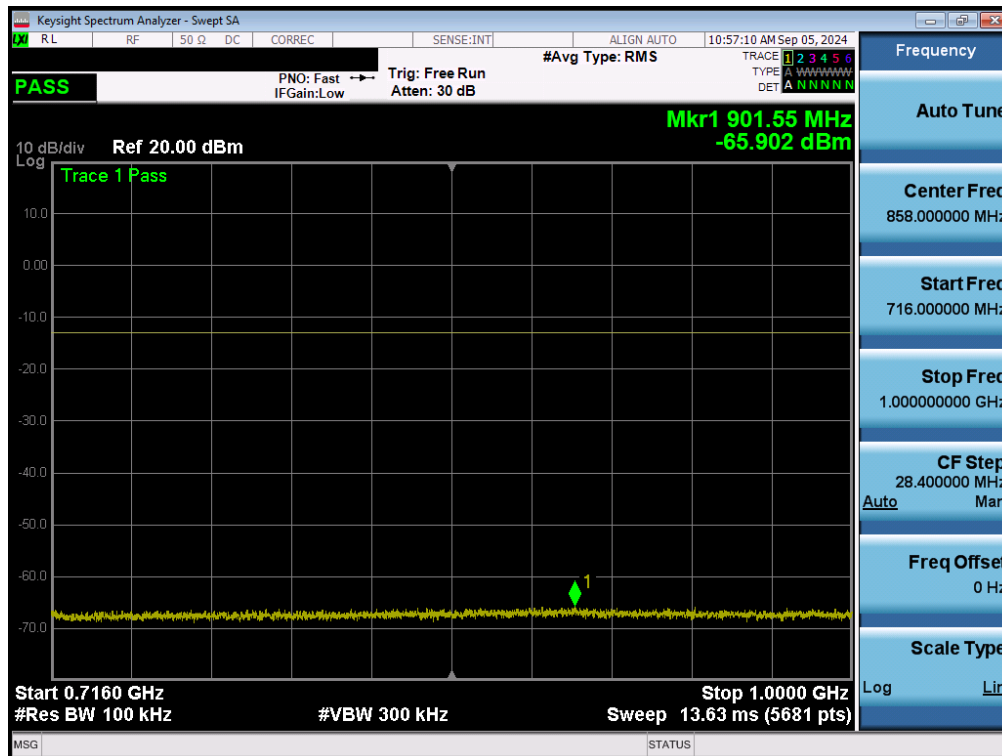
Plot 7-203. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 131 of 276

LTE Band 12 – ANT1

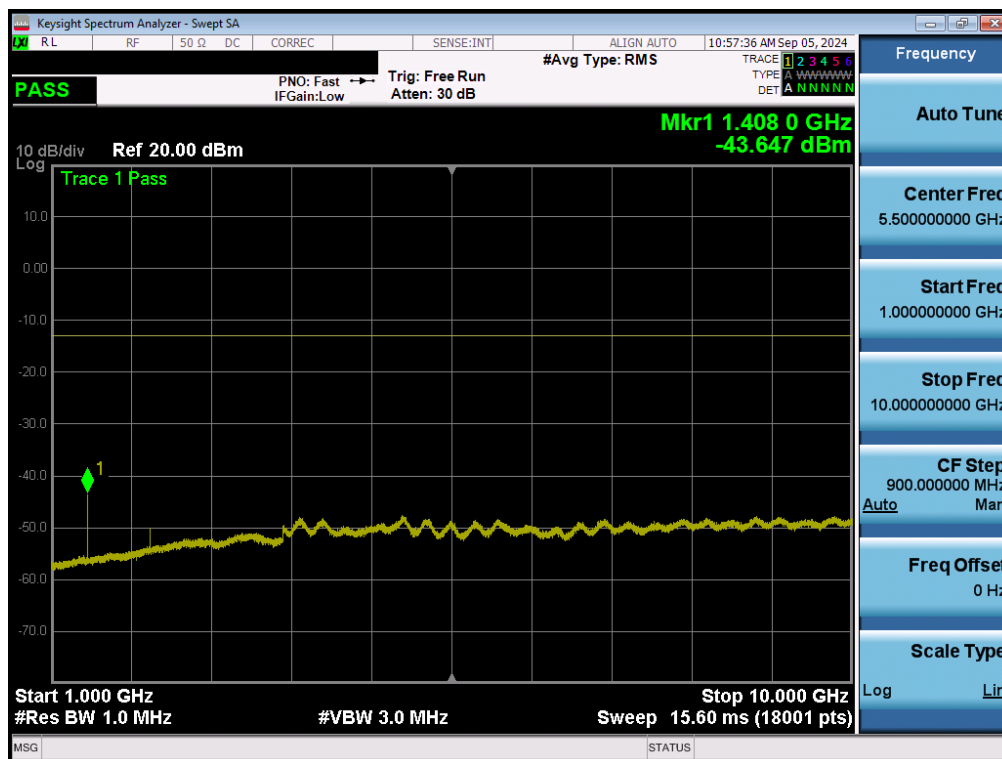


Plot 7-204. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)



Plot 7-205. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

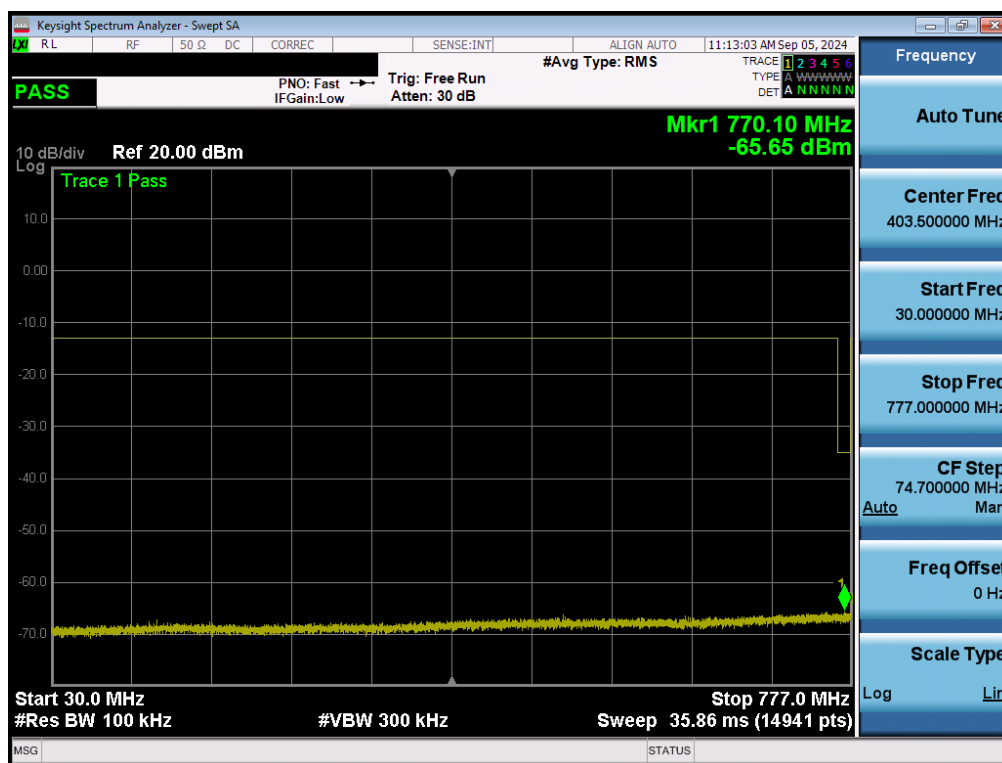
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 132 of 276



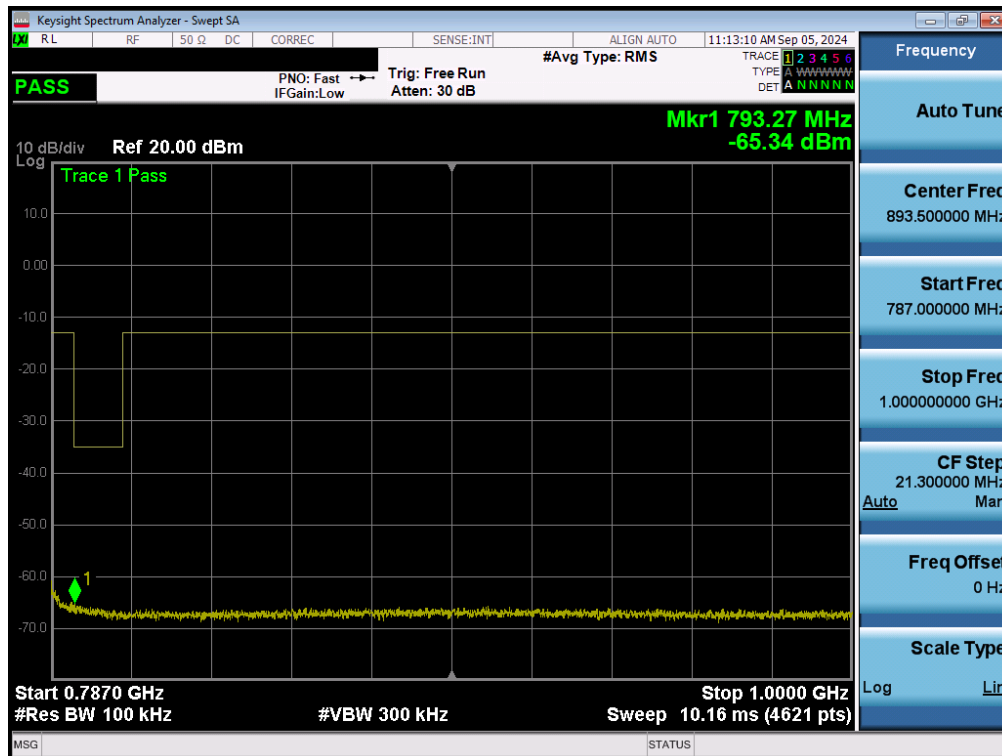
Plot 7-206. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 133 of 276

LTE Band 13 – ANT1

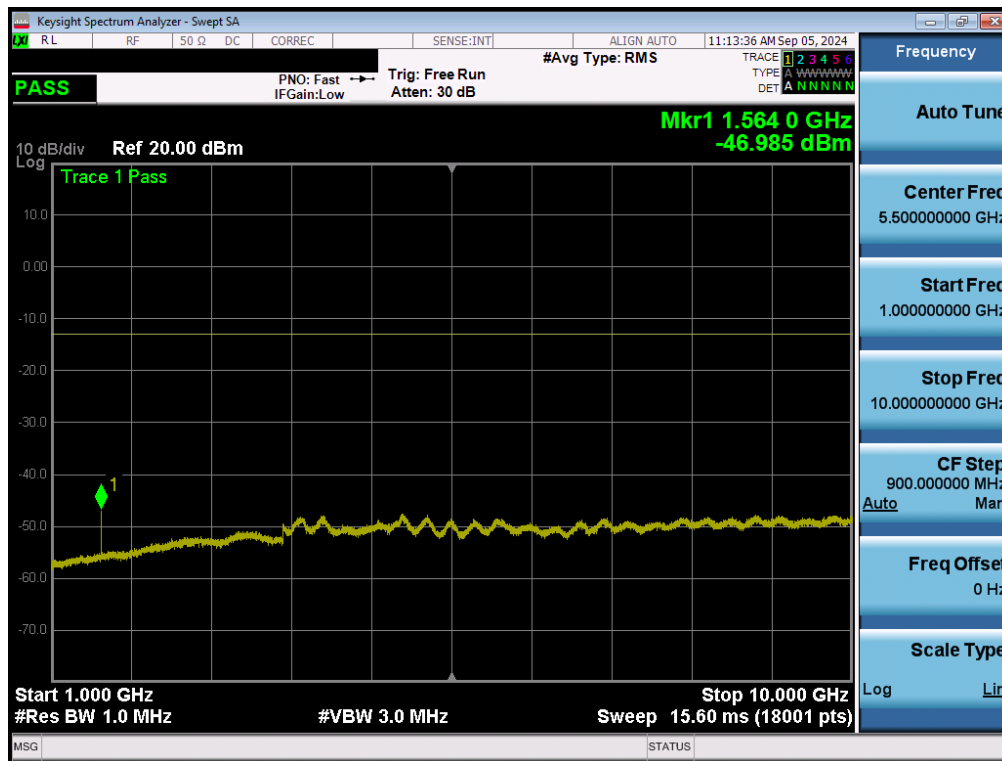


Plot 7-207. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-208. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

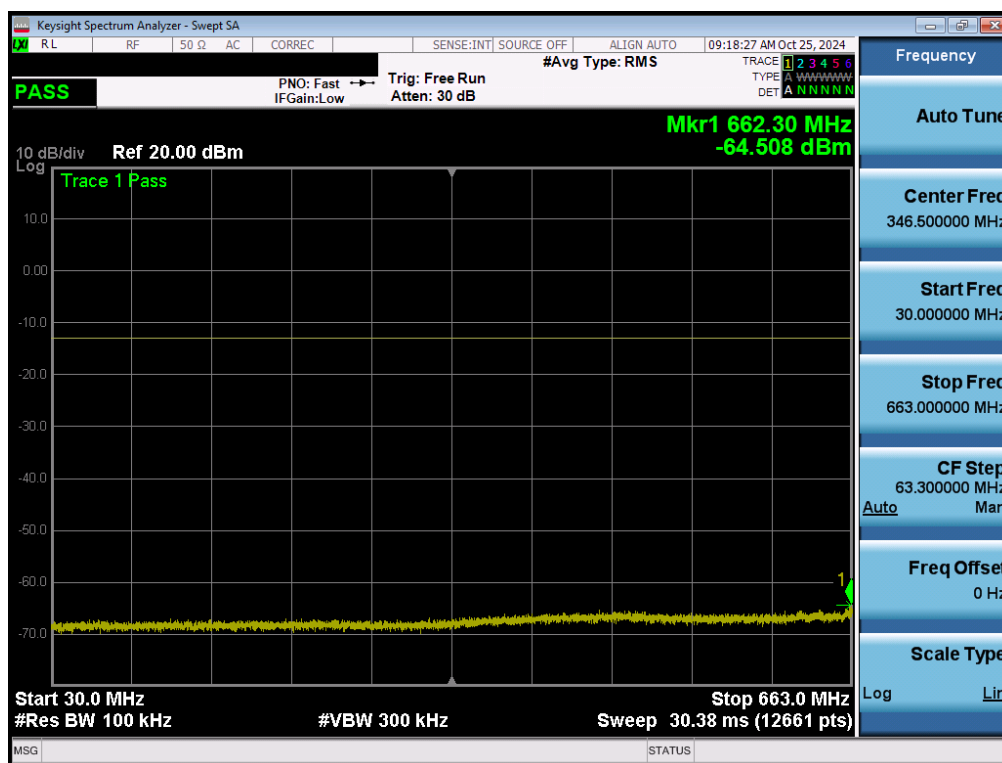
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 134 of 276



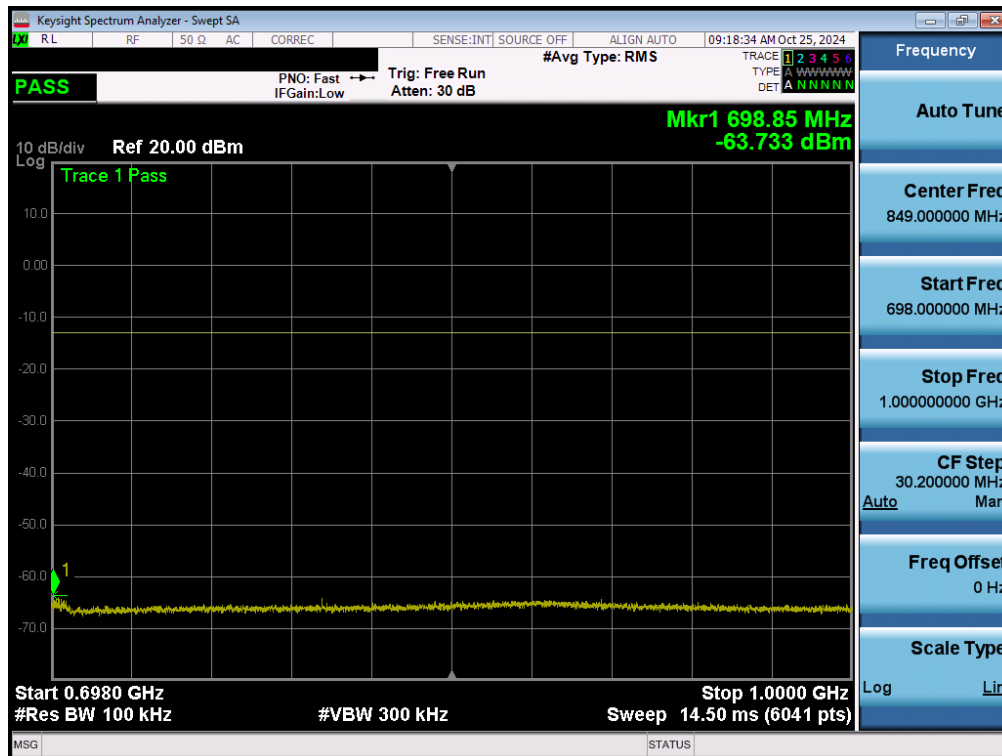
Plot 7-209. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 135 of 276

NR Band n71 – ANT1

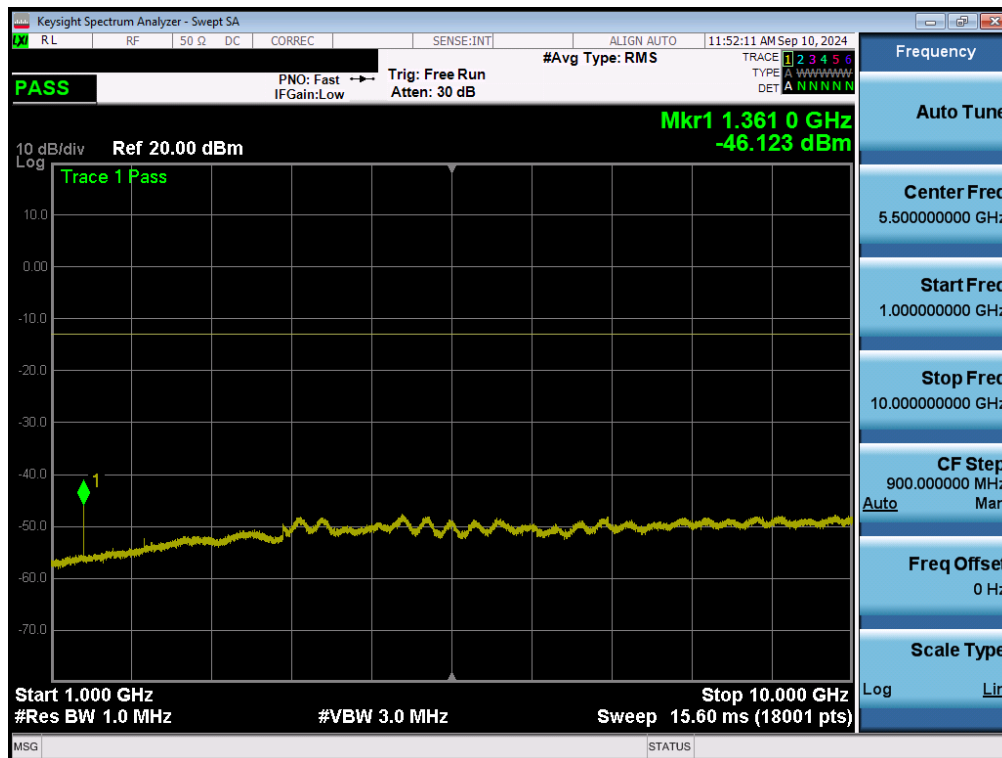


Plot 7-210. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT1)



Plot 7-211. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT1)

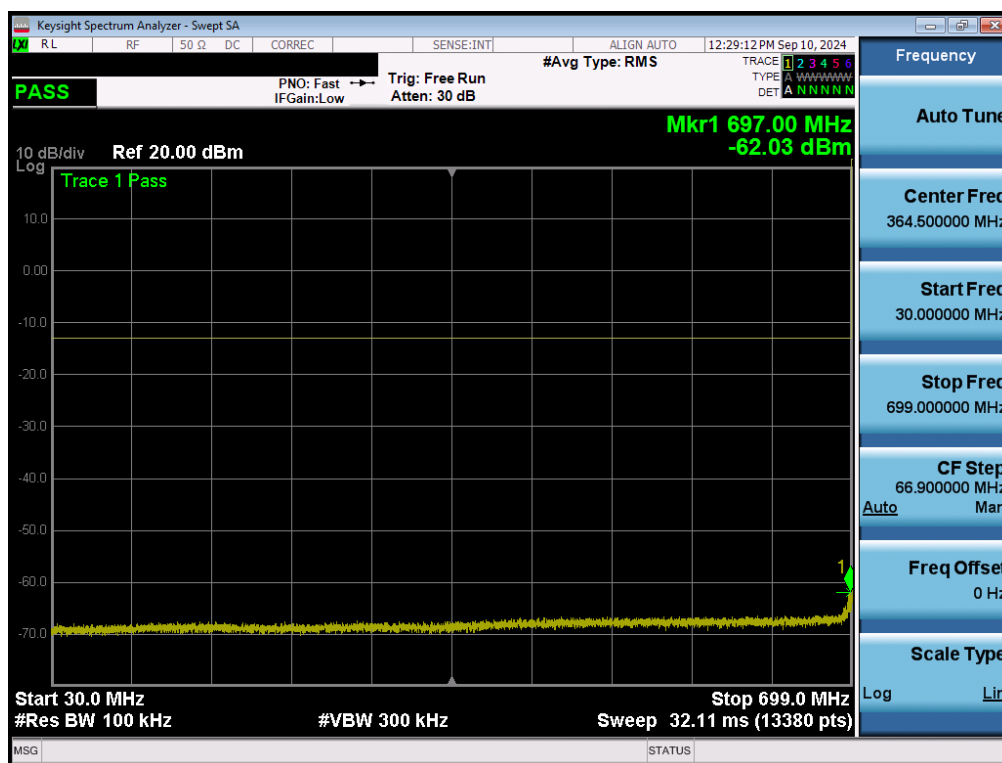
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 136 of 276



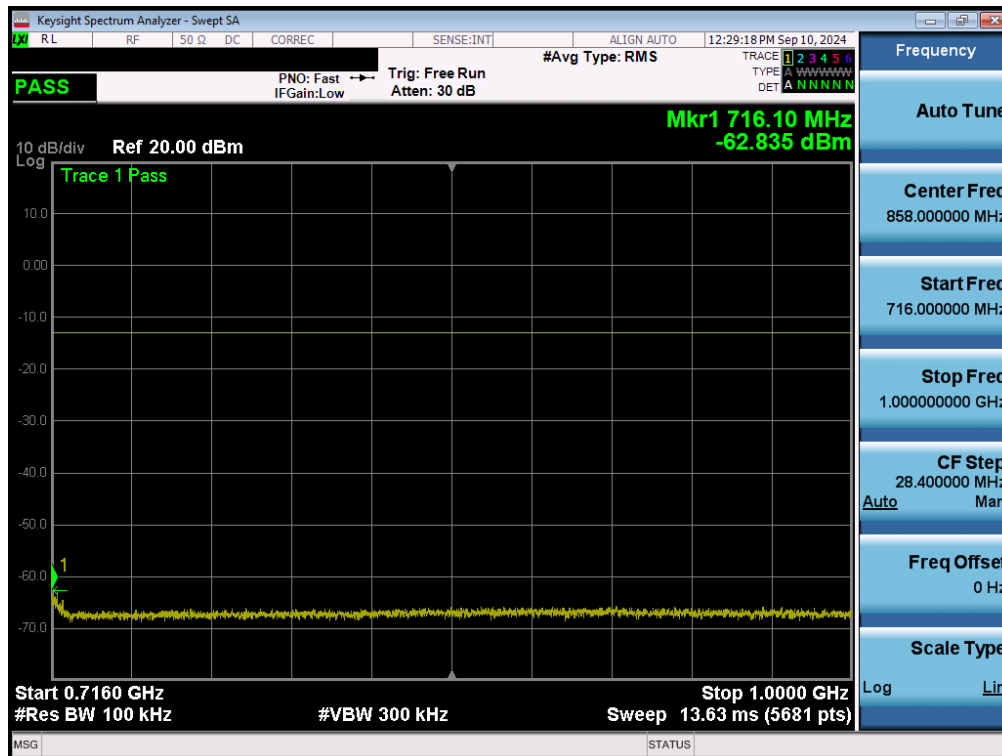
Plot 7-212. Conducted Spurious Plot (NR Band n71 - 35MHz - 1 RB - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 137 of 276

NR Band n12 – ANT1

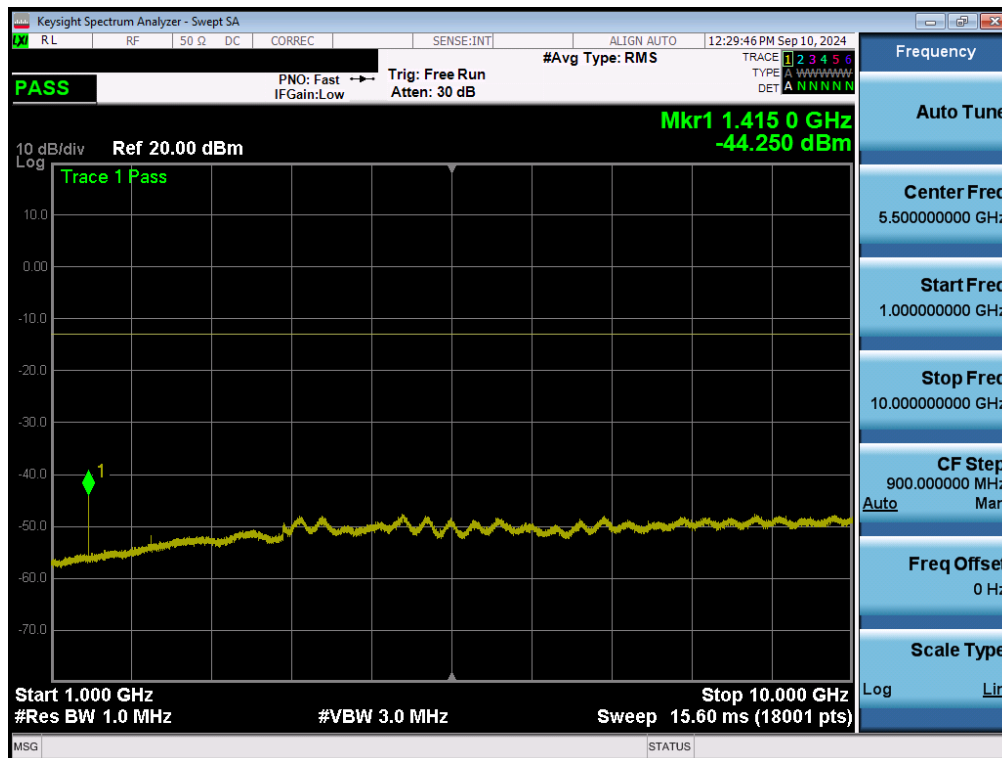


Plot 7-213. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - ANT1)



Plot 7-214. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - ANT1)

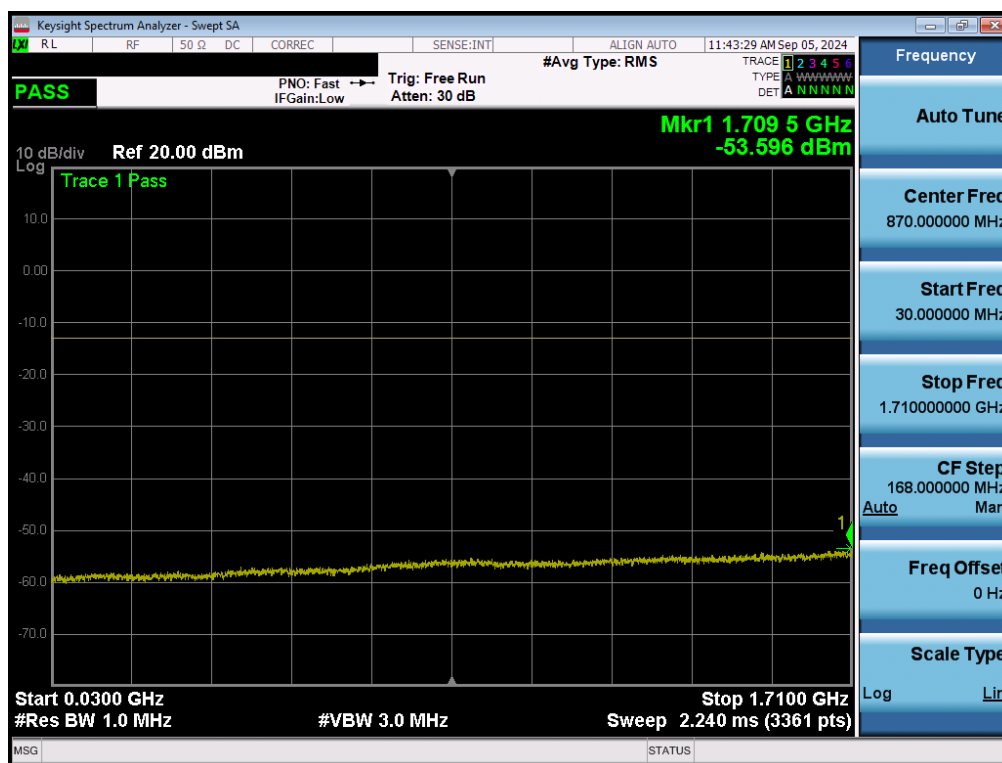
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 138 of 276



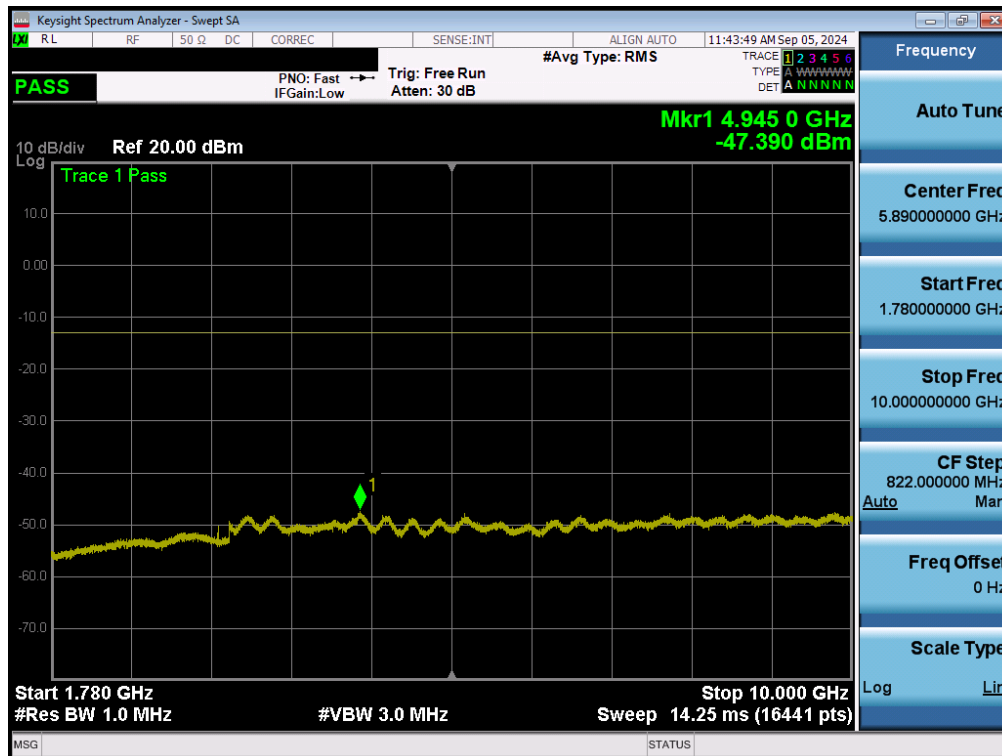
Plot 7-215. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 139 of 276

LTE Band 66/4 – ANT1

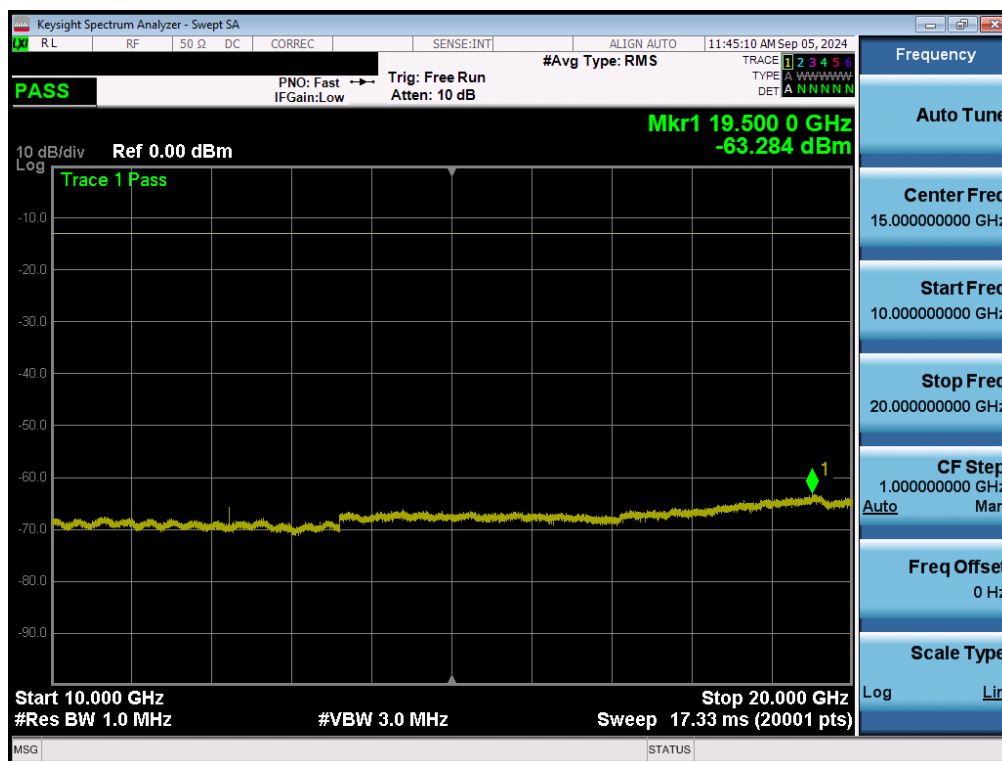


Plot 7-216. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)



Plot 7-217. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)

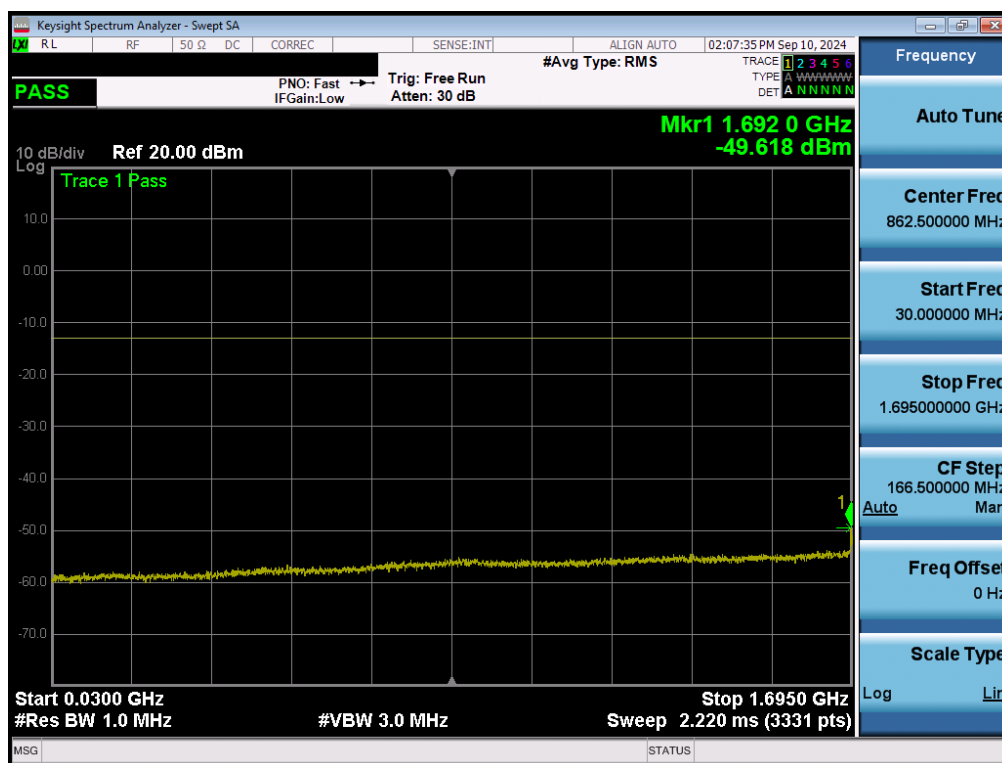
FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 140 of 276



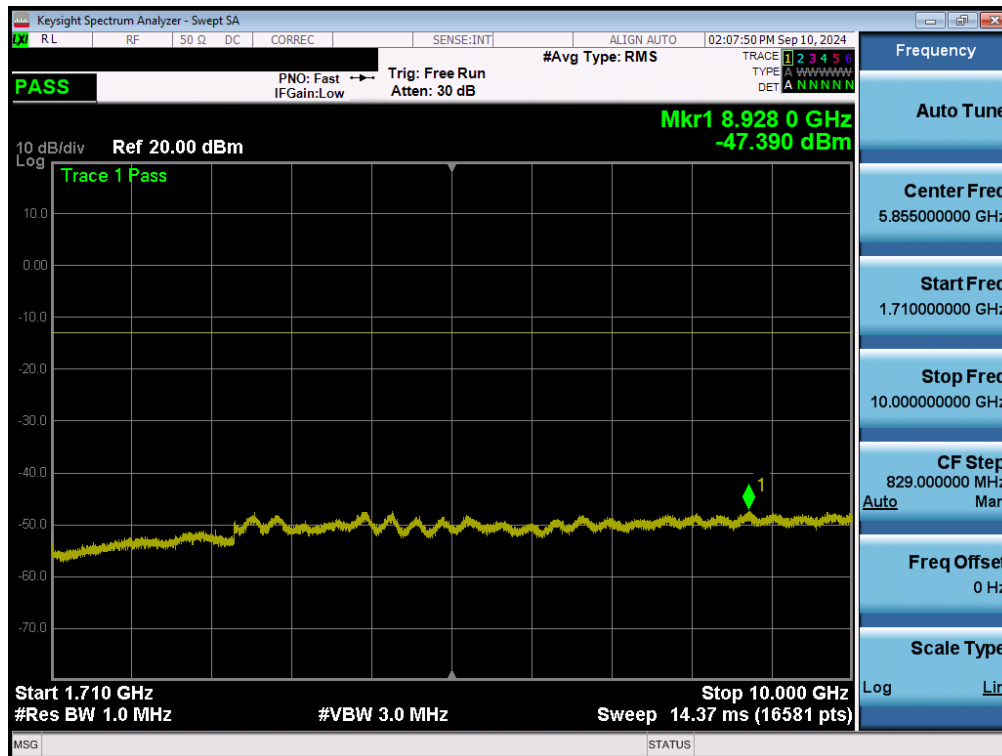
Plot 7-218. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Mid Channel)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 141 of 276

NR Band n70 – ANT1



Plot 7-219. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)



Plot 7-220. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMS936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-03.A3L	Test Dates: 9/4/2024 - 10/26/2024	EUT Type: Portable Handset	Page 142 of 276