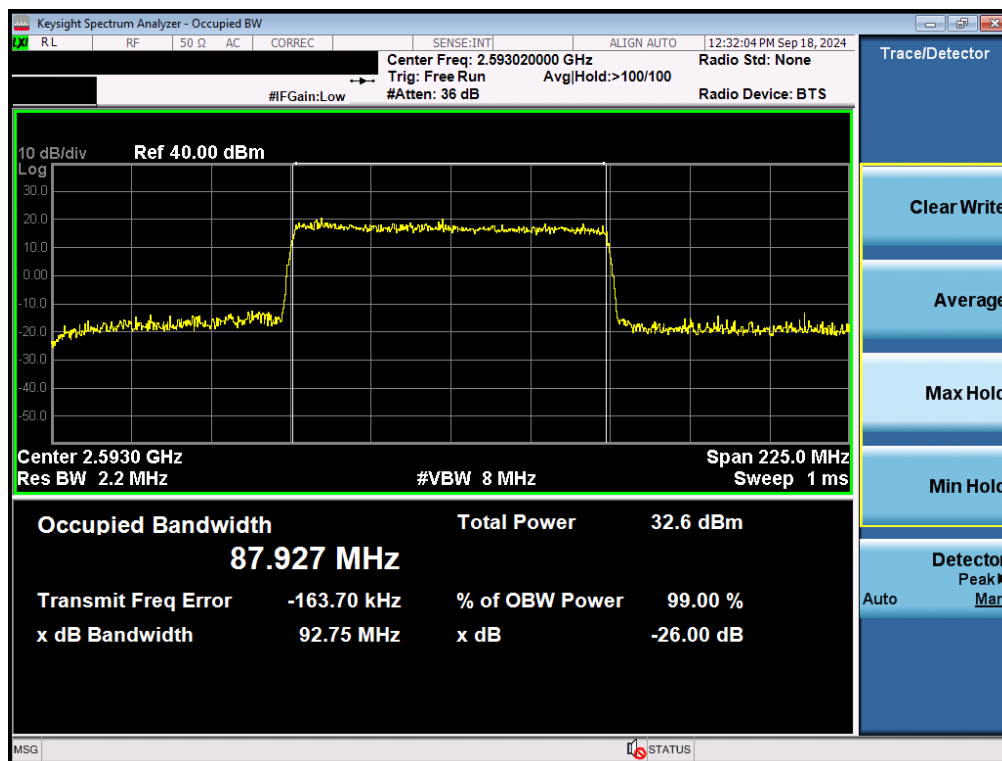
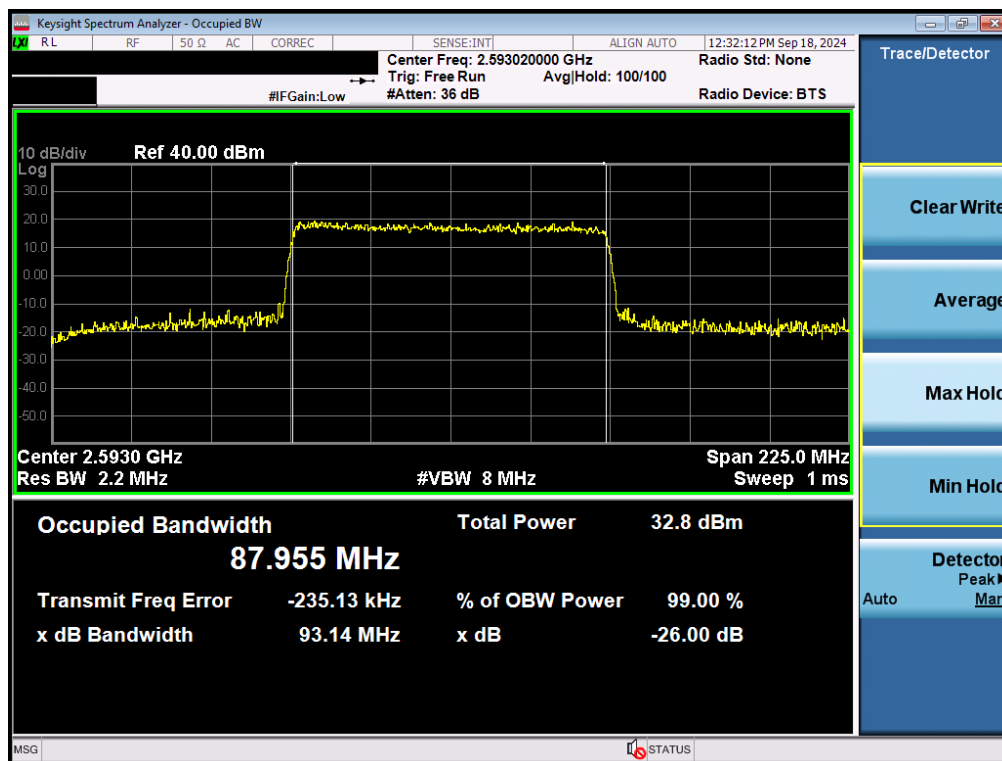


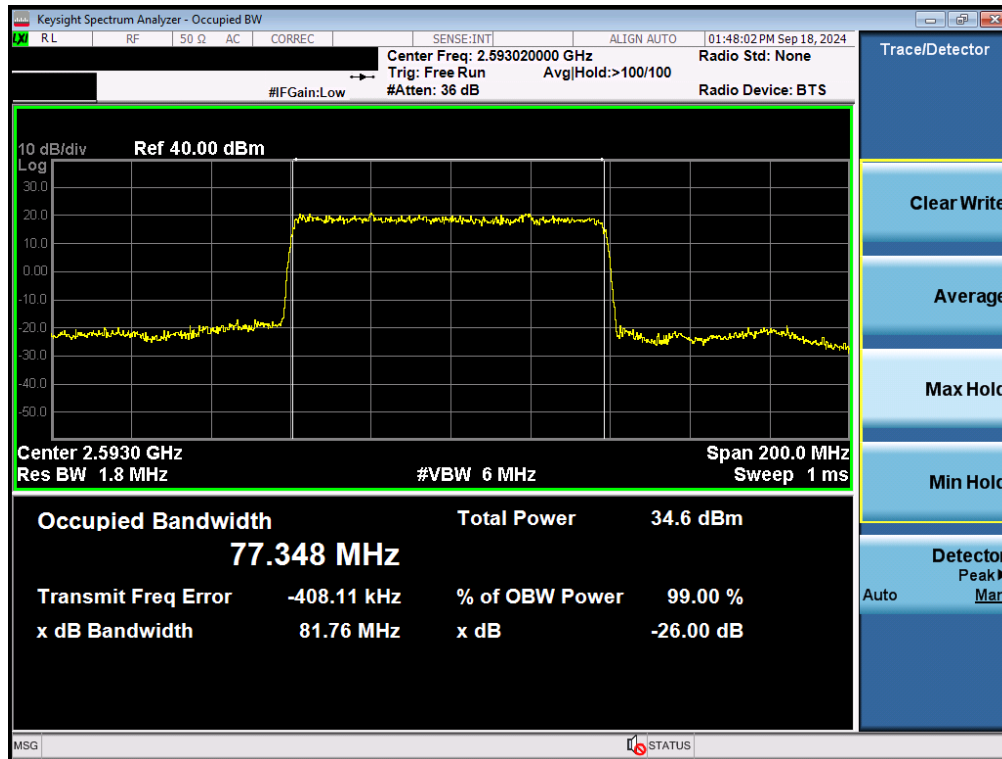


Plot 7-118. Occupied Bandwidth Plot (NR Band n41 - 90MHz QPSK - Full RB - Ant B)

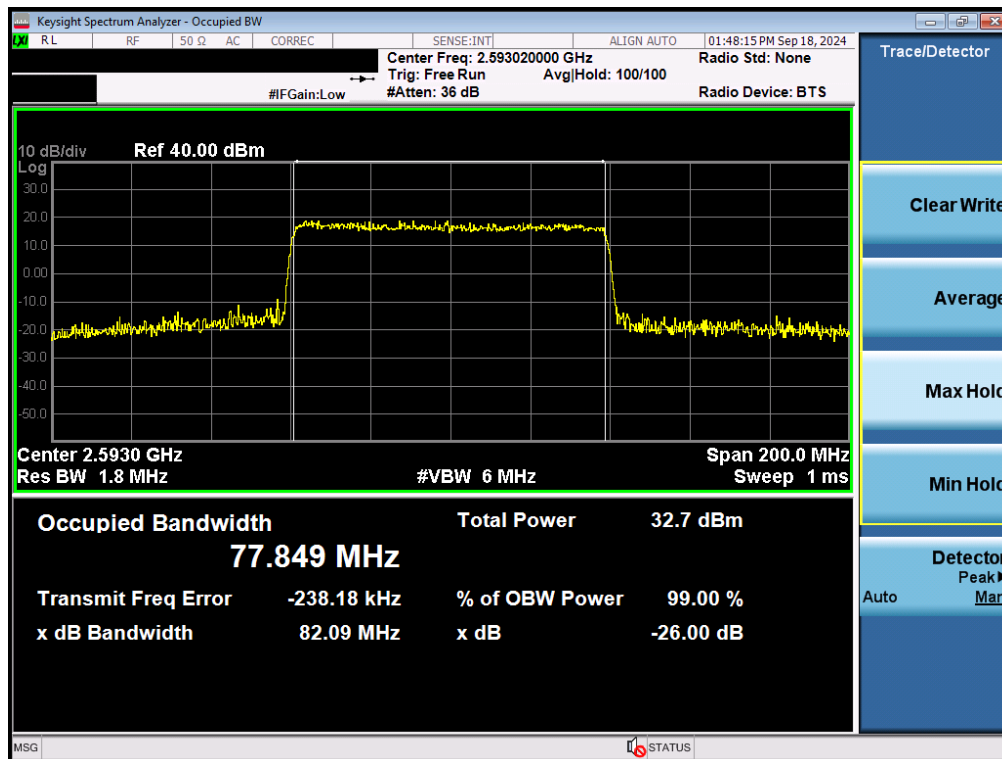


Plot 7-119. Occupied Bandwidth Plot (NR Band n41 - 90MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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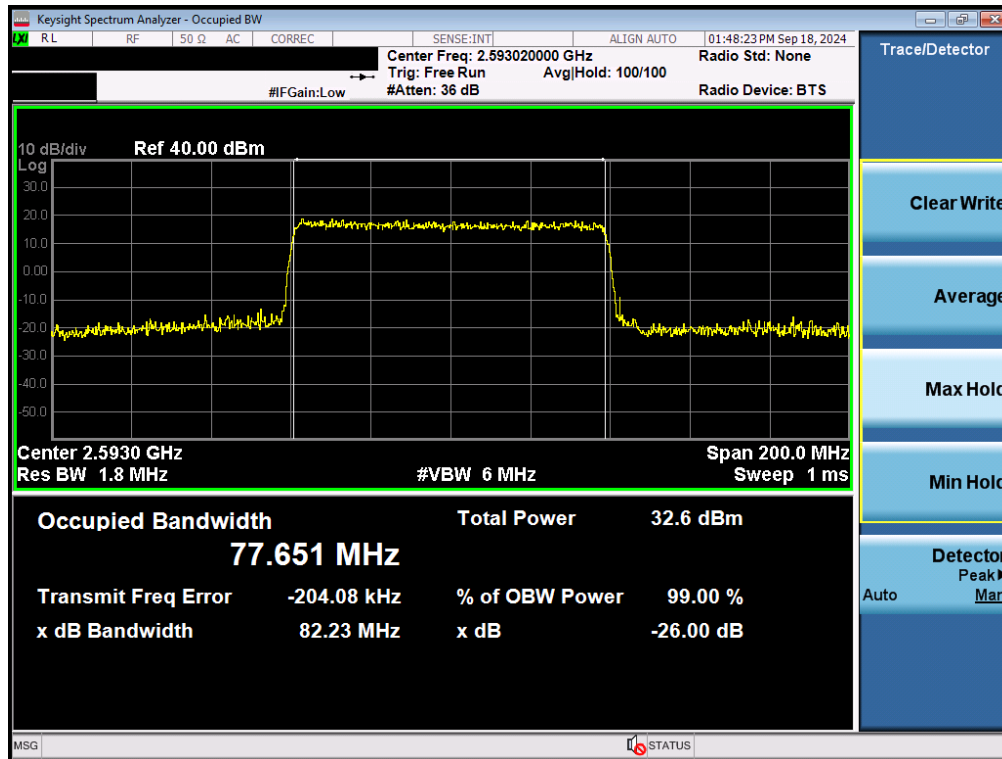


Plot 7-120. Occupied Bandwidth Plot (NR Band n41 - 80MHz $\pi/2$ BPSK - Full RB - Ant B)

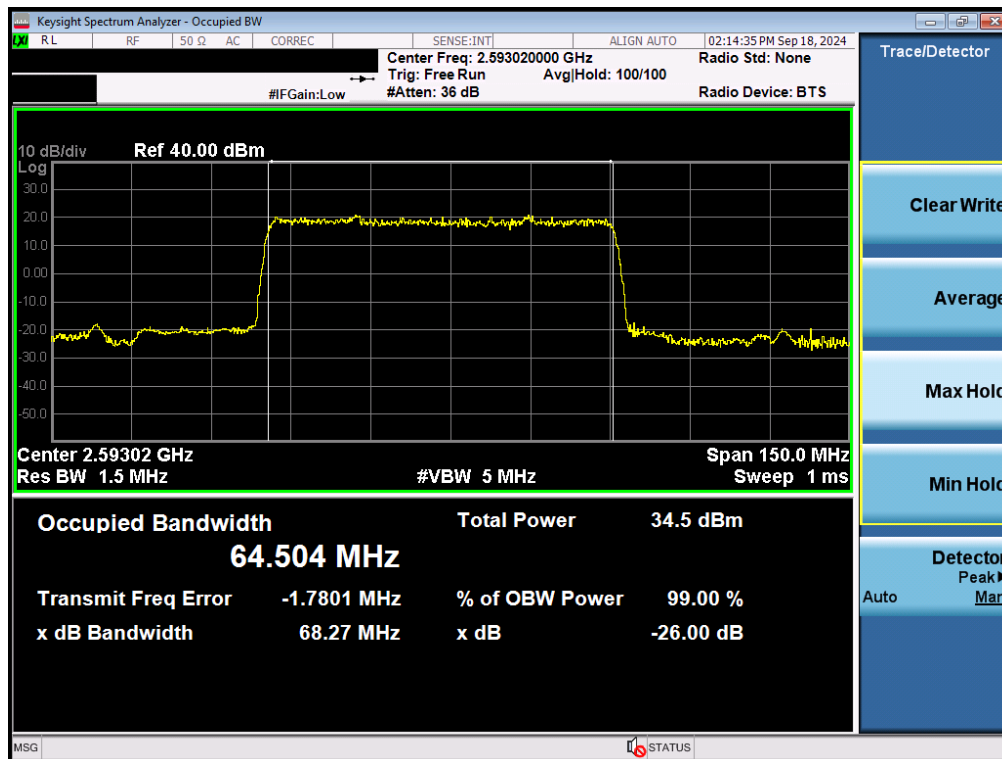


Plot 7-121. Occupied Bandwidth Plot (NR Band n41 - 80MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 84 of 281

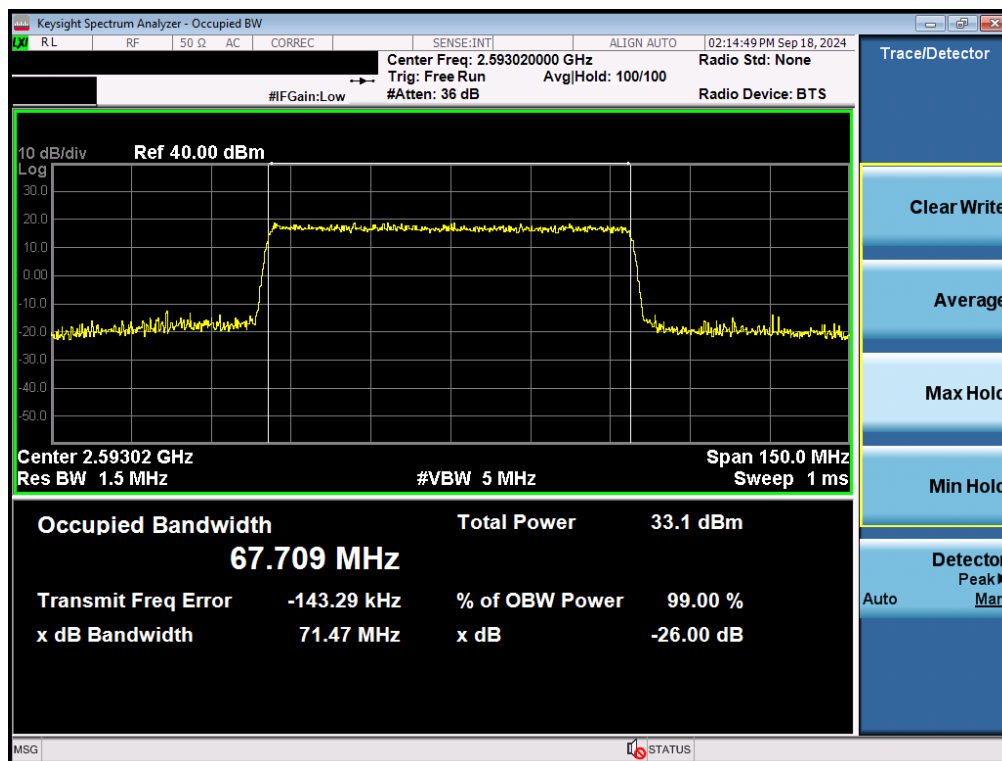


Plot 7-122. Occupied Bandwidth Plot (NR Band n41 - 80MHz 16-QAM - Full RB - Ant B)

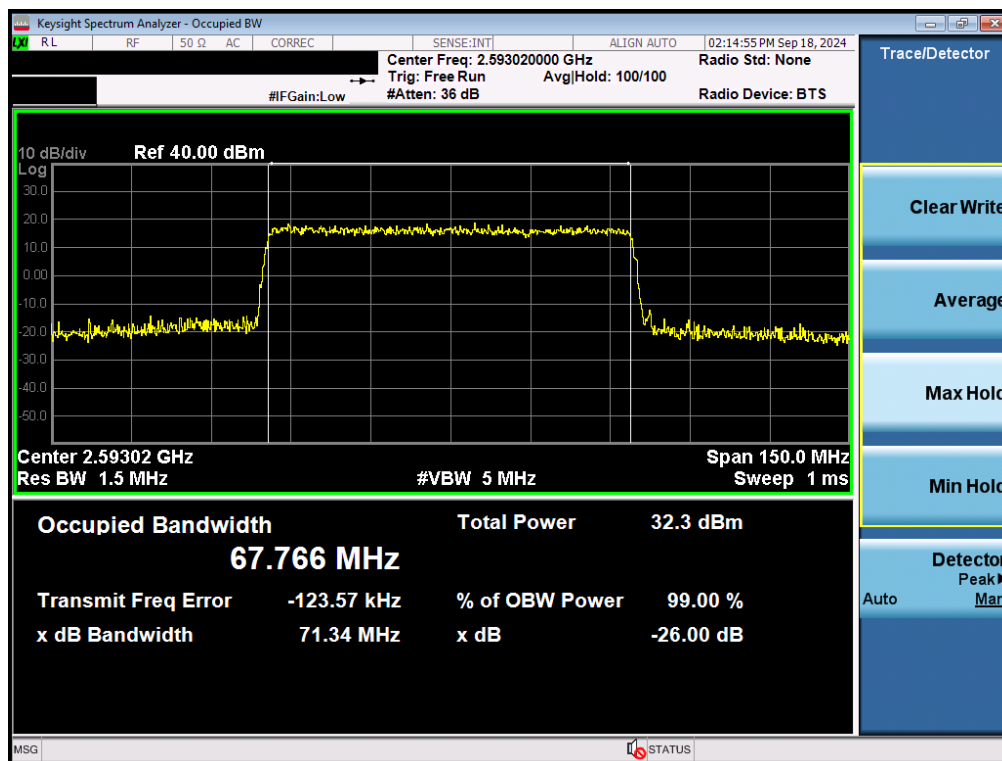


Plot 7-123. Occupied Bandwidth Plot (NR Band n41 - 70MHz 7 $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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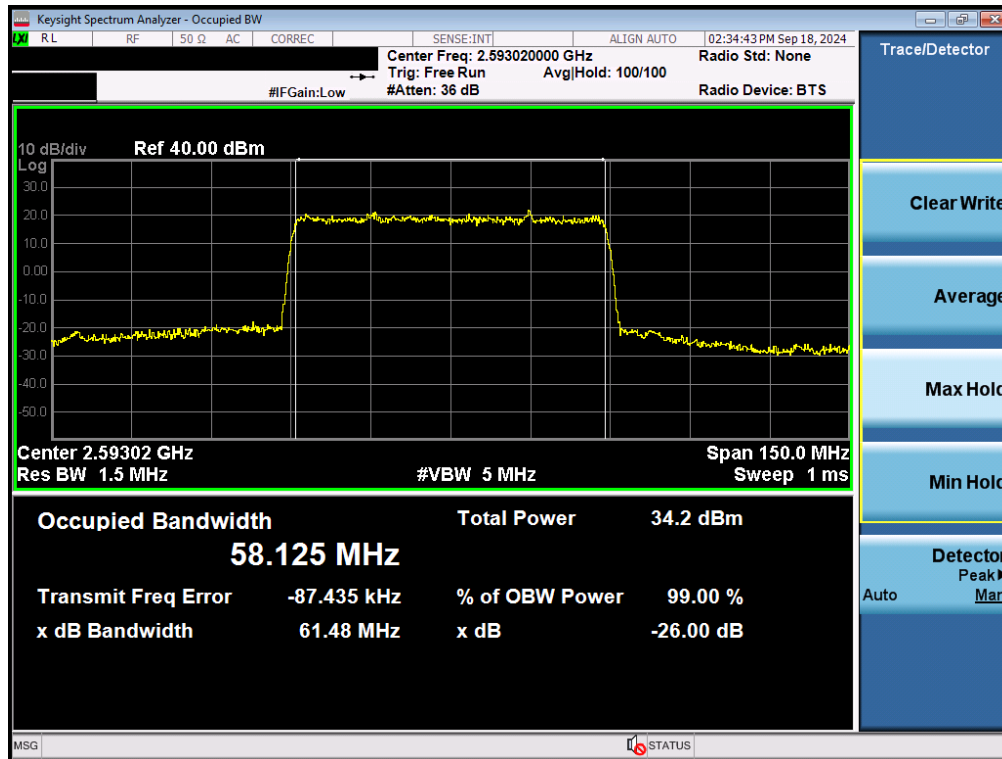


Plot 7-124. Occupied Bandwidth Plot (NR Band n41 - 70MHz QPSK - Full RB - Ant B)

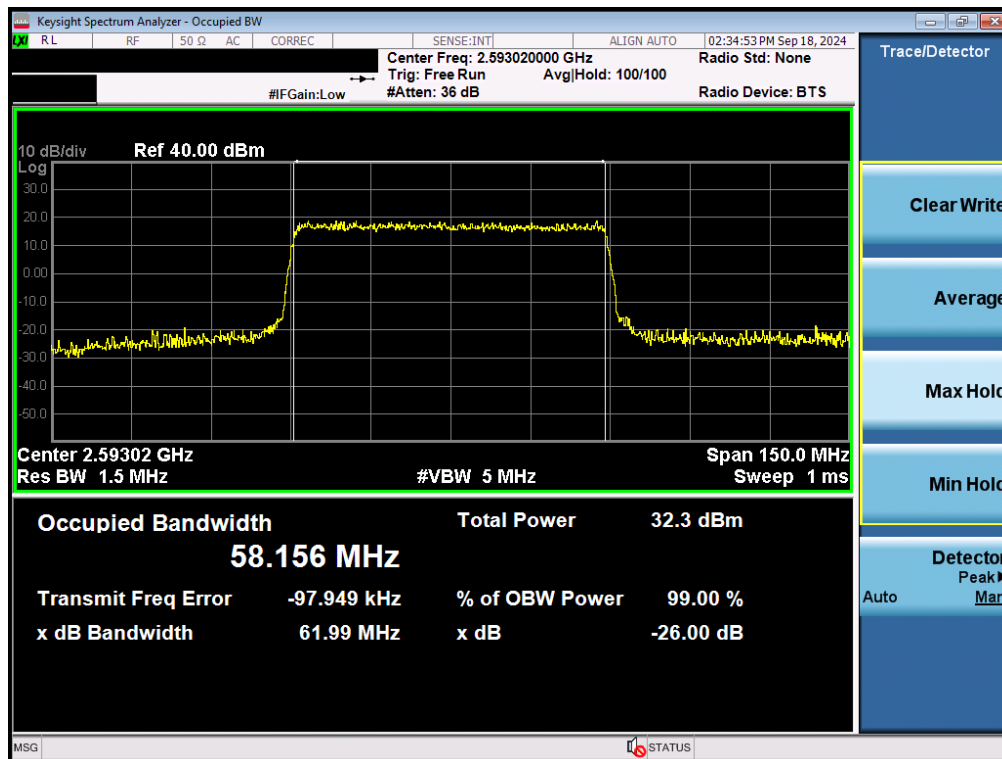


Plot 7-125. Occupied Bandwidth Plot (NR Band n41 - 70MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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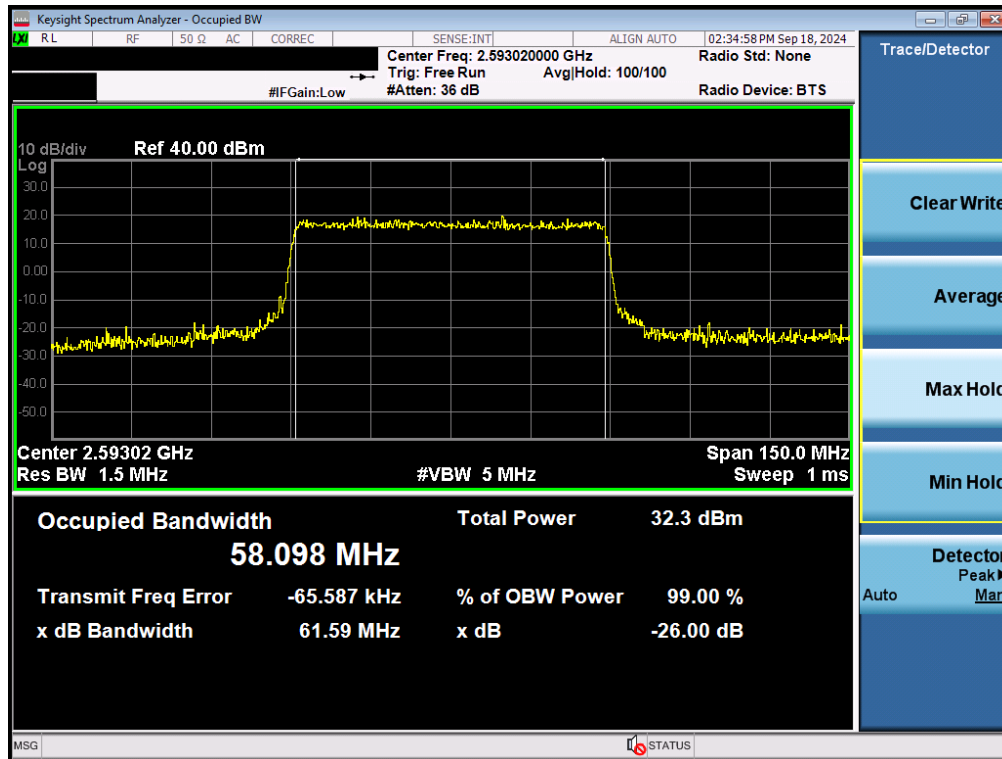


Plot 7-126. Occupied Bandwidth Plot (NR Band n41 - 60MHz $\pi/2$ BPSK - Full RB - Ant B)

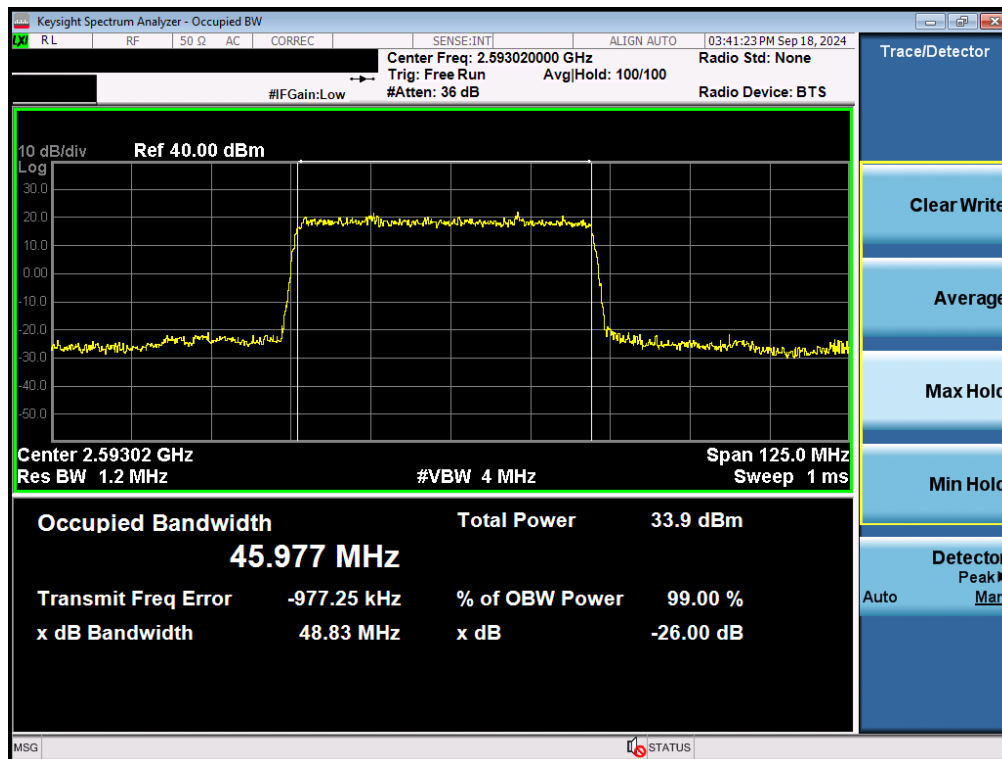


Plot 7-127. Occupied Bandwidth Plot (NR Band n41 - 60MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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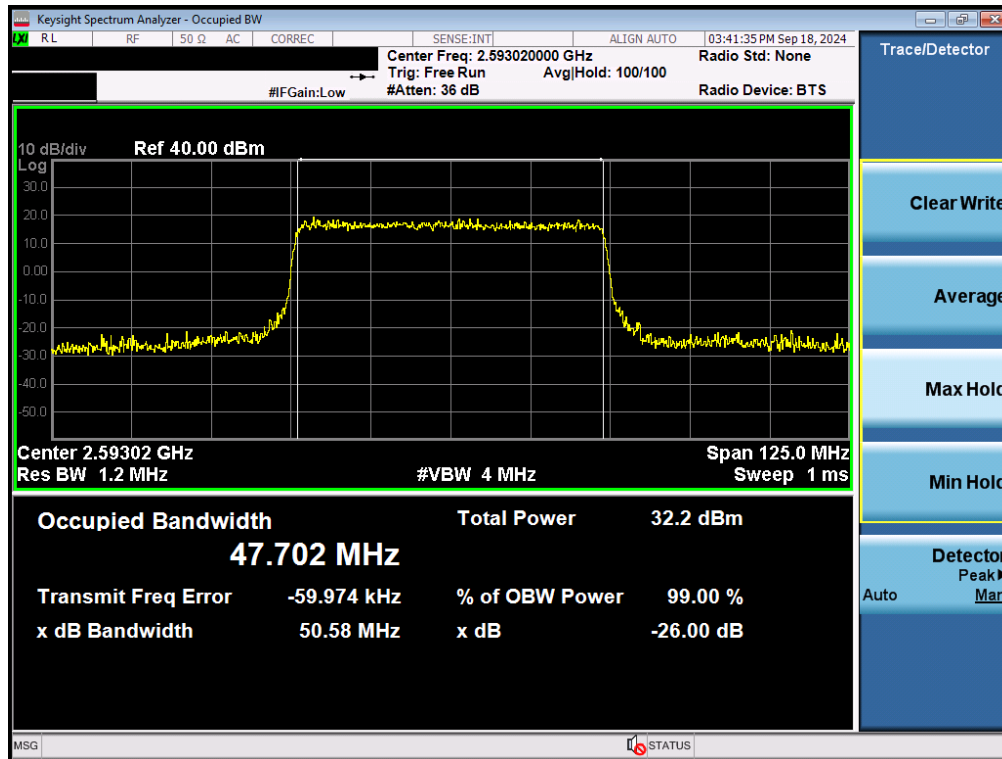


Plot 7-128. Occupied Bandwidth Plot (NR Band n41 - 60MHz 16-QAM - Full RB - Ant B)

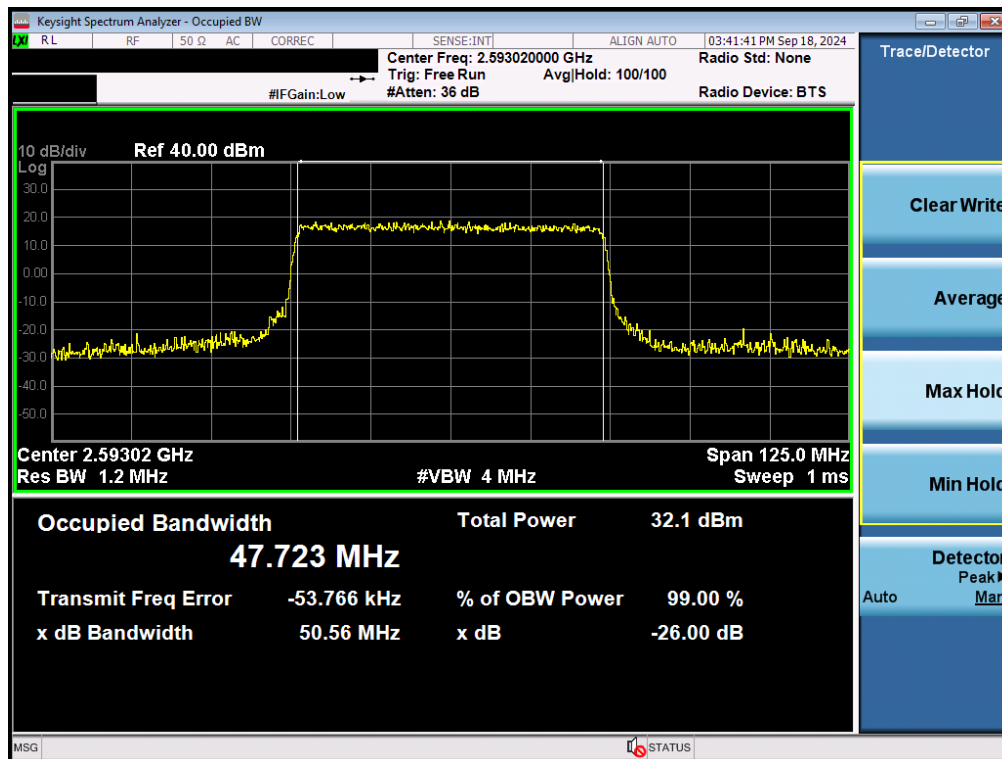


Plot 7-129. Occupied Bandwidth Plot (NR Band n41 - 50MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 88 of 281

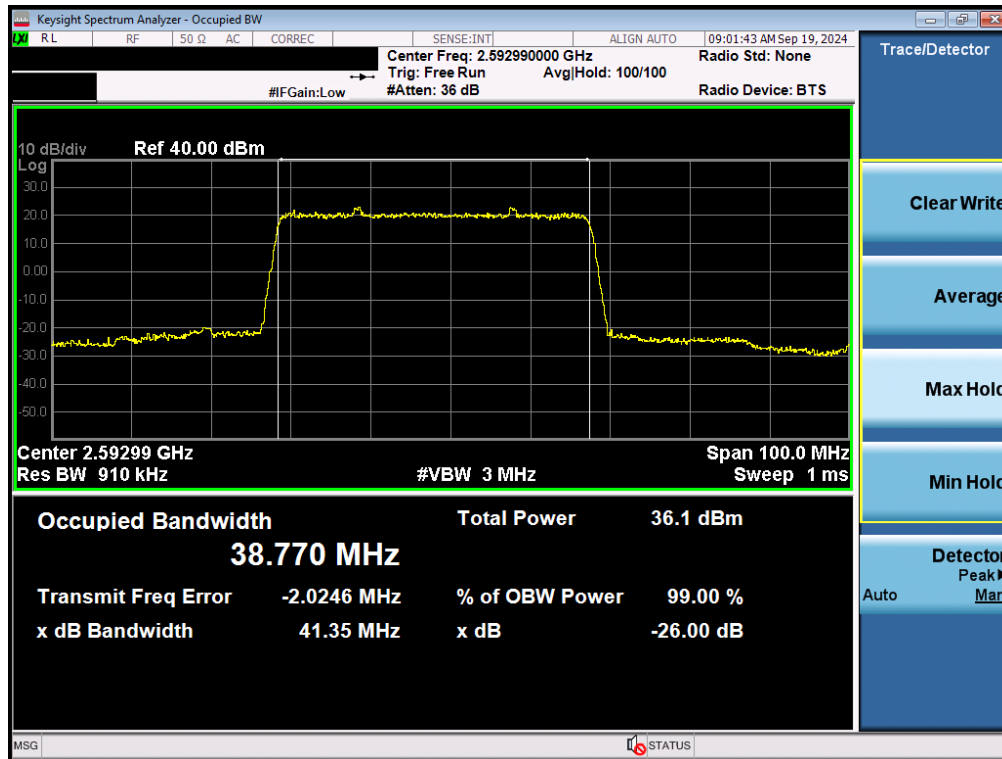


Plot 7-130. Occupied Bandwidth Plot (NR Band n41 - 50MHz QPSK - Full RB - Ant B)

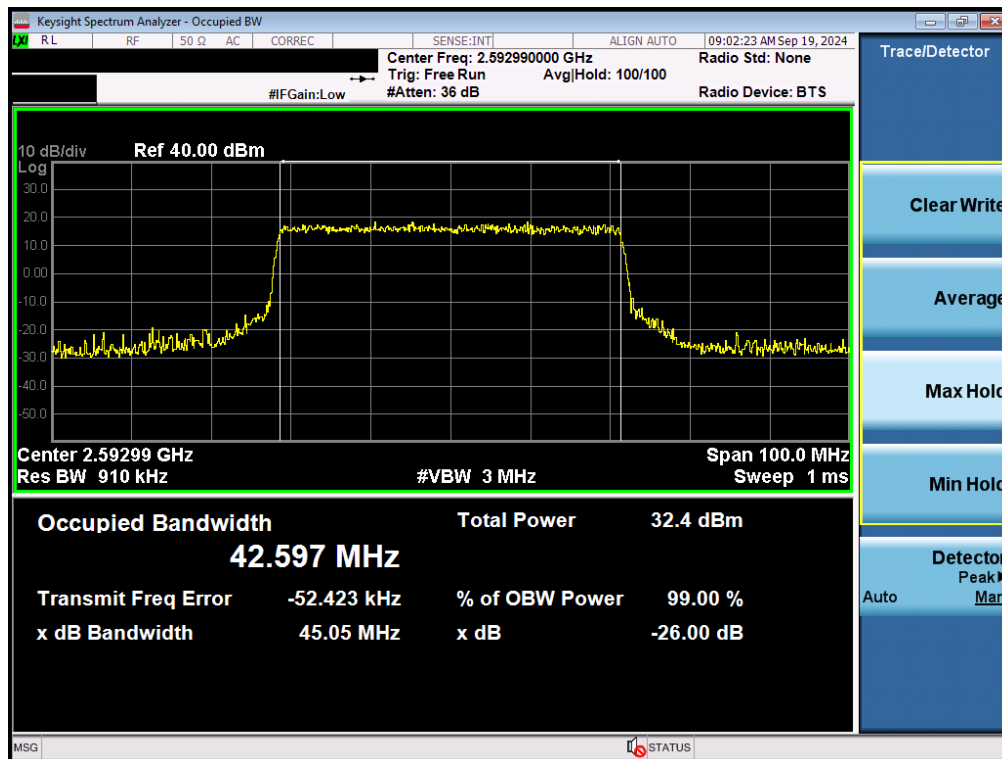


Plot 7-131. Occupied Bandwidth Plot (NR Band n41 - 50MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 89 of 281

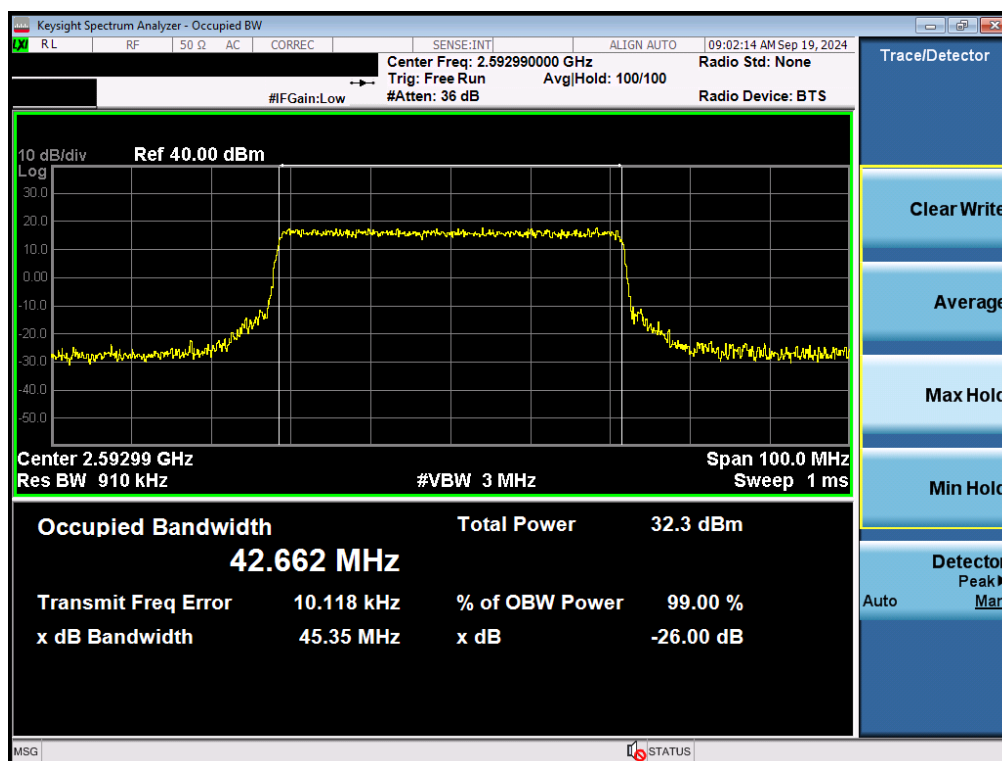


Plot 7-132. Occupied Bandwidth Plot (NR Band n41 - 45MHz $\pi/2$ BPSK - Full RB - Ant B)

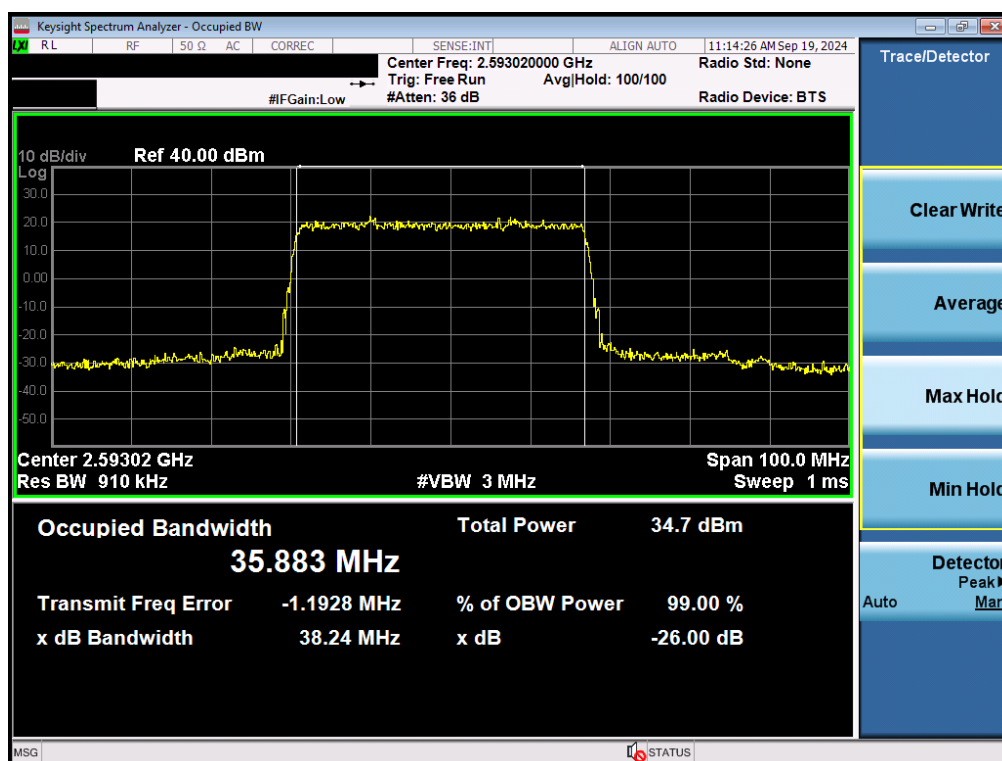


Plot 7-133. Occupied Bandwidth Plot (NR Band n41 - 45MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 90 of 281

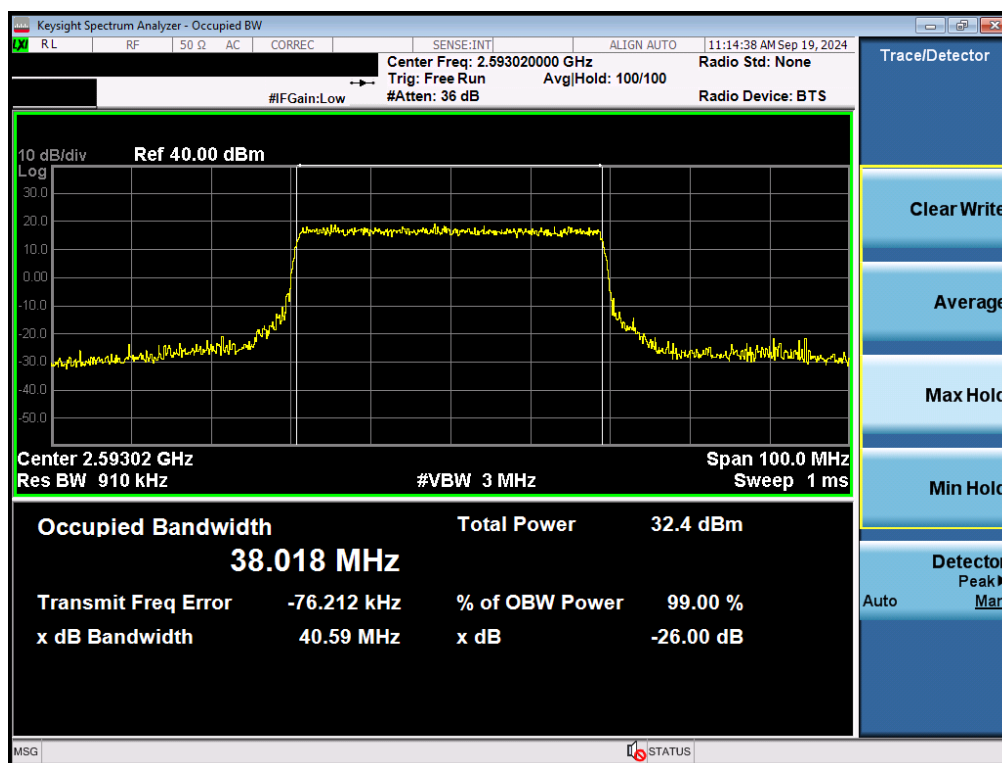


Plot 7-134. Occupied Bandwidth Plot (NR Band n41 - 45MHz 16-QAM - Full RB - Ant B)

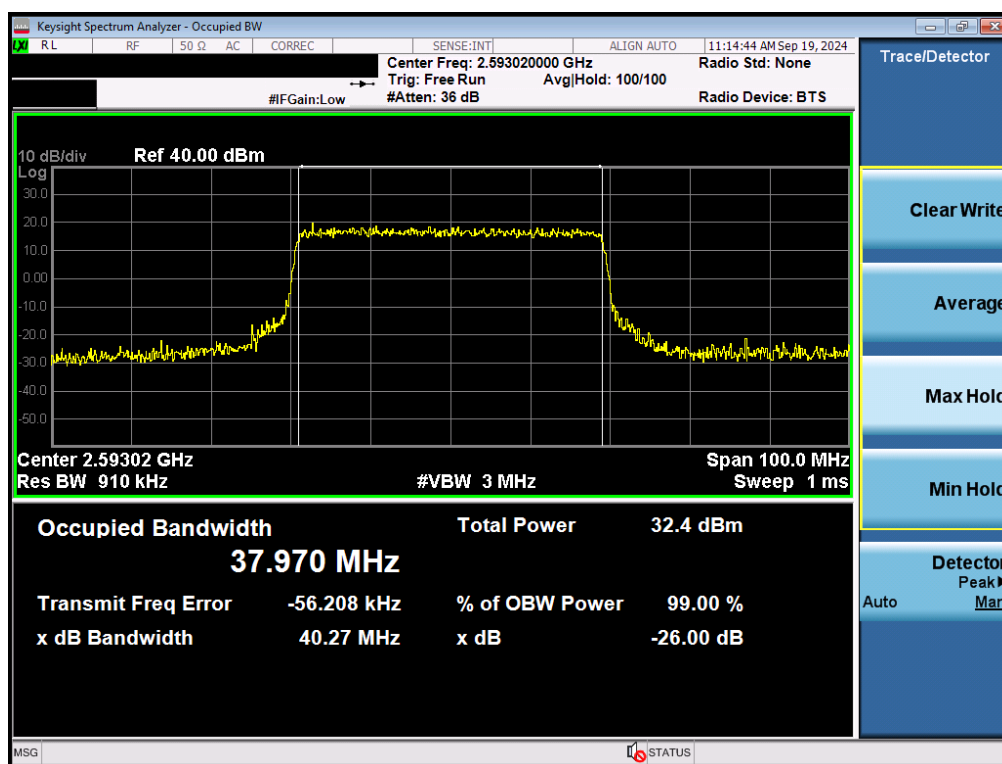


Plot 7-135. Occupied Bandwidth Plot (NR Band n41 - 40MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 91 of 281

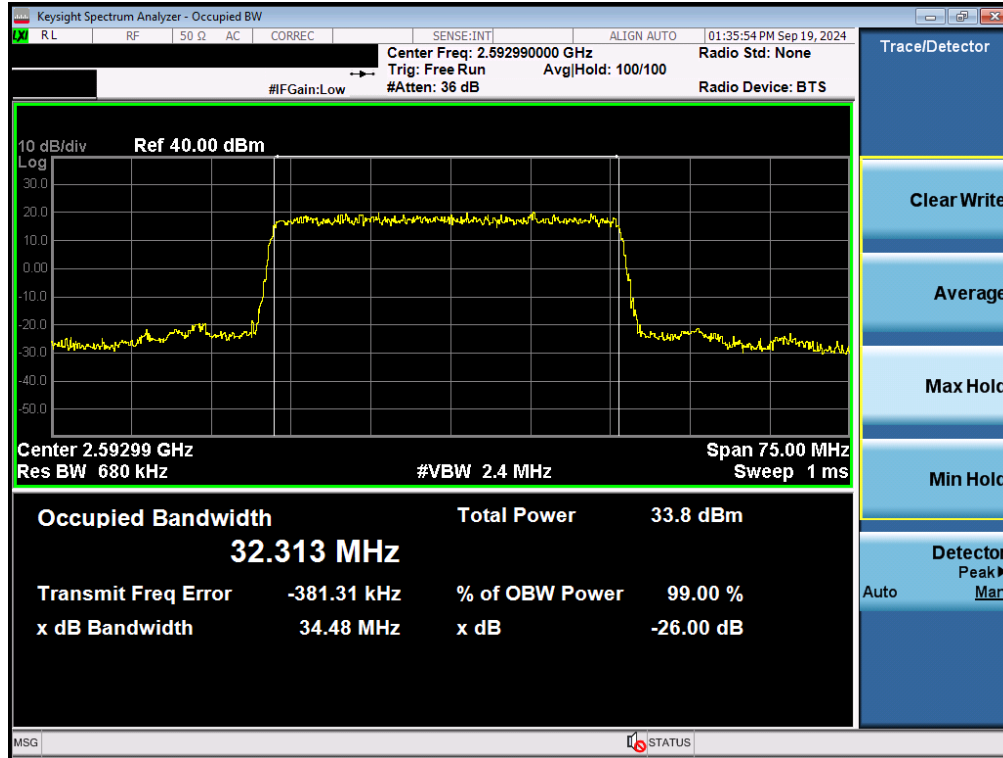


Plot 7-136. Occupied Bandwidth Plot (NR Band n41 - 40MHz QPSK - Full RB - Ant B)

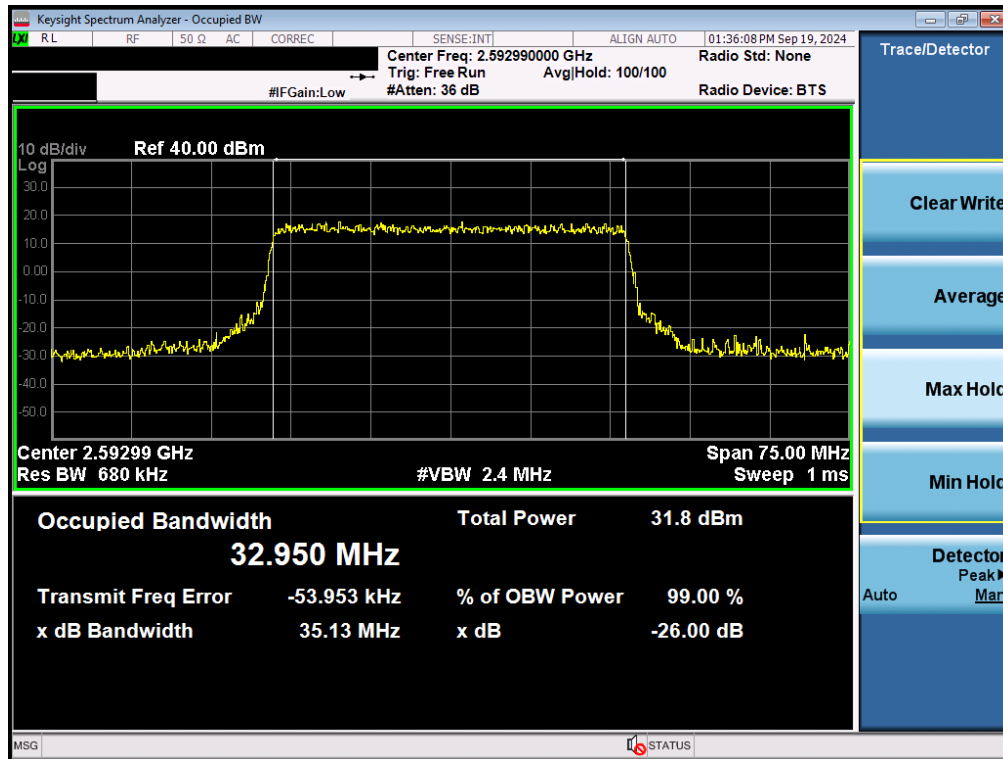


Plot 7-137. Occupied Bandwidth Plot (NR Band n41 - 40MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 92 of 281

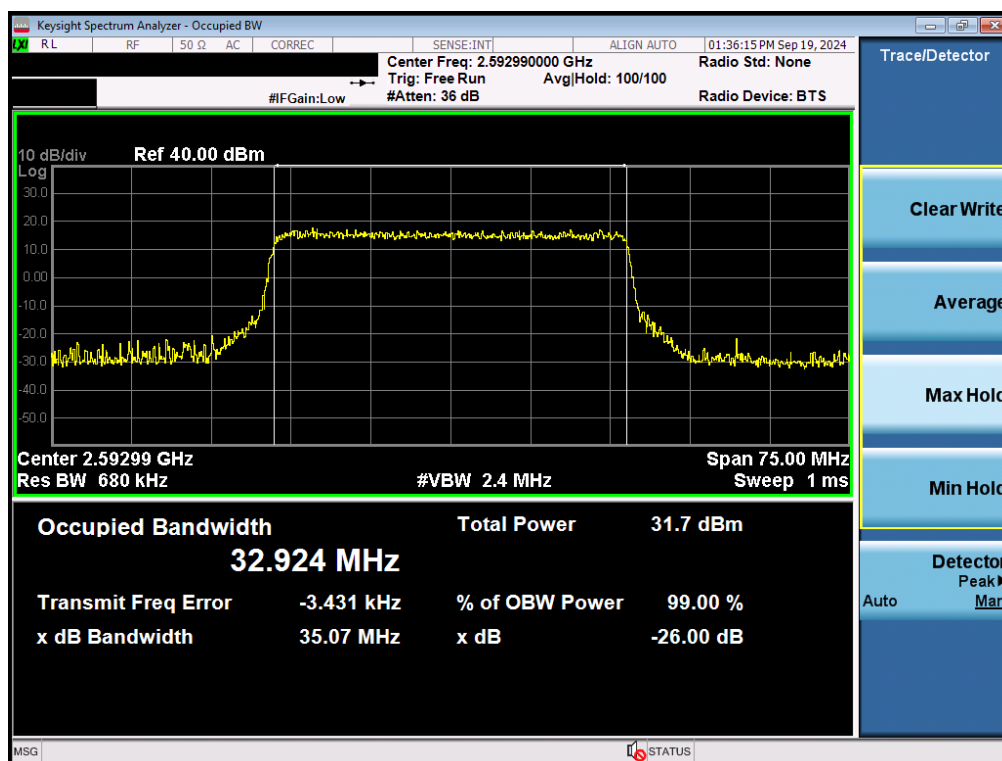


Plot 7-138. Occupied Bandwidth Plot (NR Band n41 - 35MHz $\pi/2$ BPSK - Full RB - Ant B)

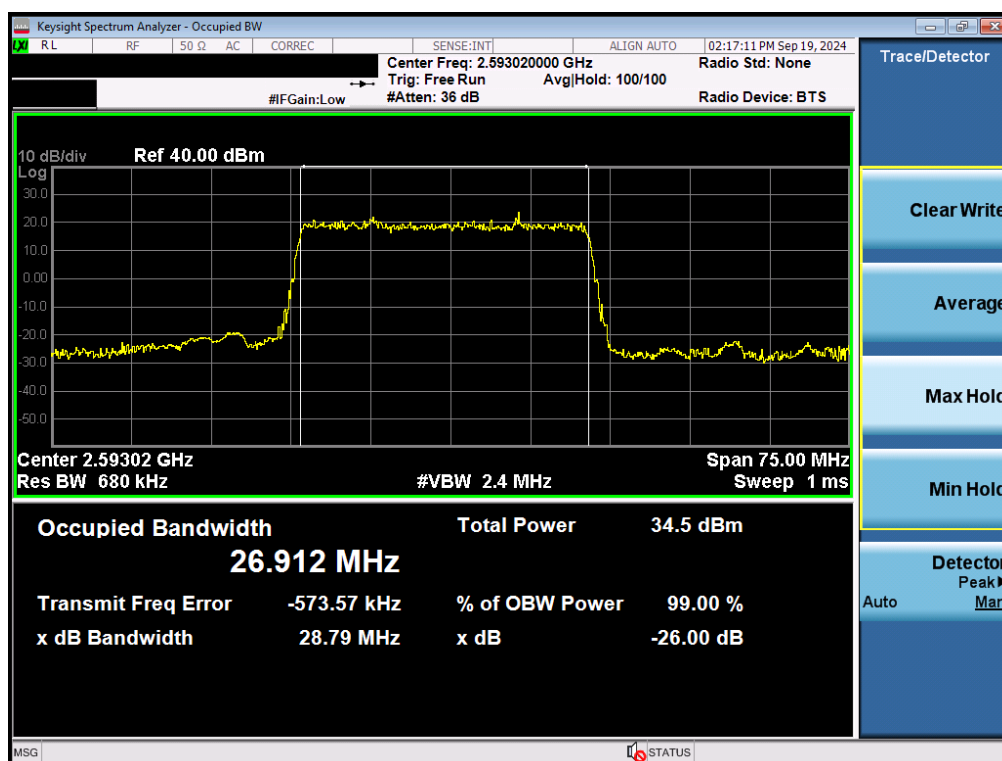


Plot 7-139. Occupied Bandwidth Plot (NR Band n41 - 35MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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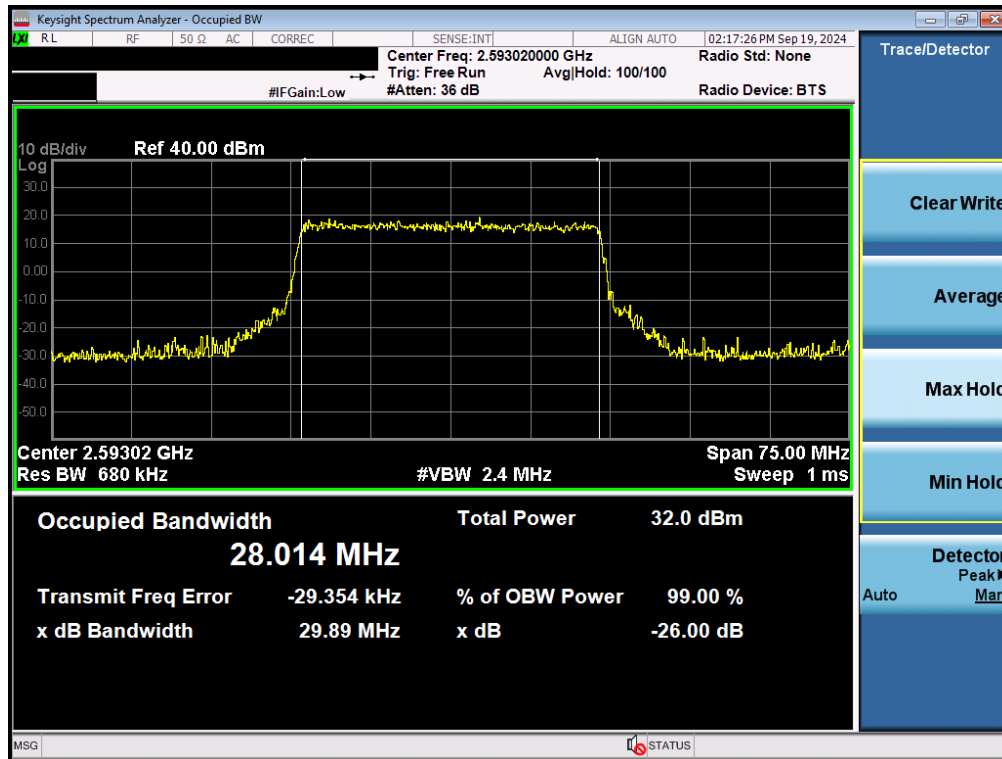


Plot 7-140. Occupied Bandwidth Plot (NR Band n41 - 35MHz 16-QAM - Full RB - Ant B)

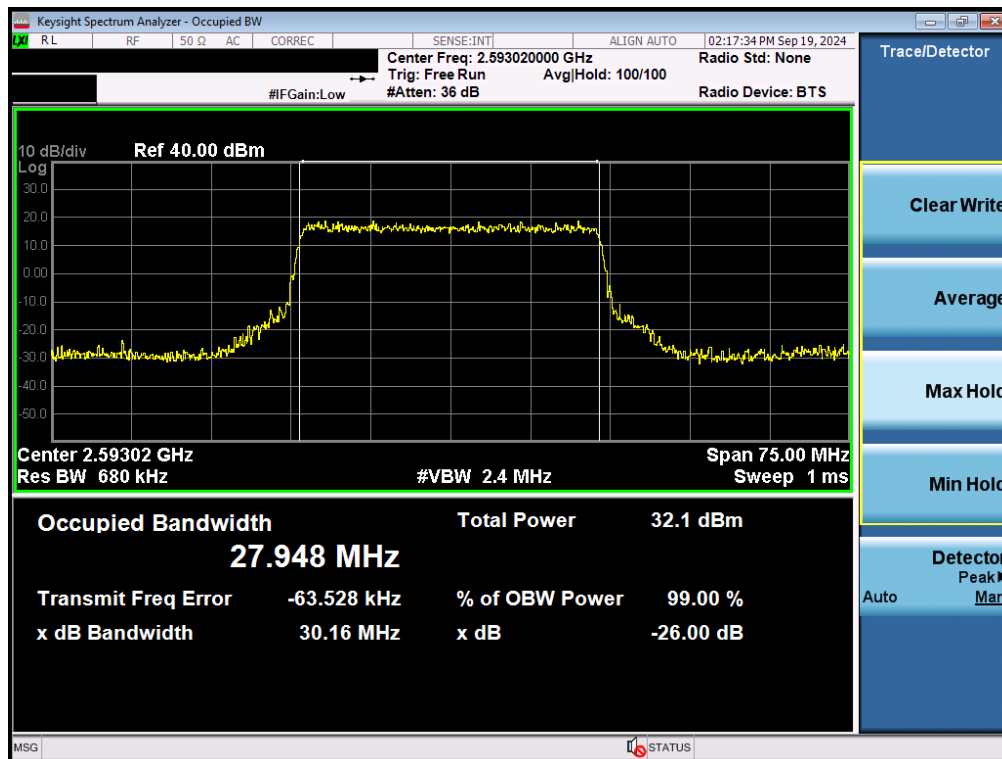


Plot 7-141. Occupied Bandwidth Plot (NR Band n41 - 30MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 94 of 281

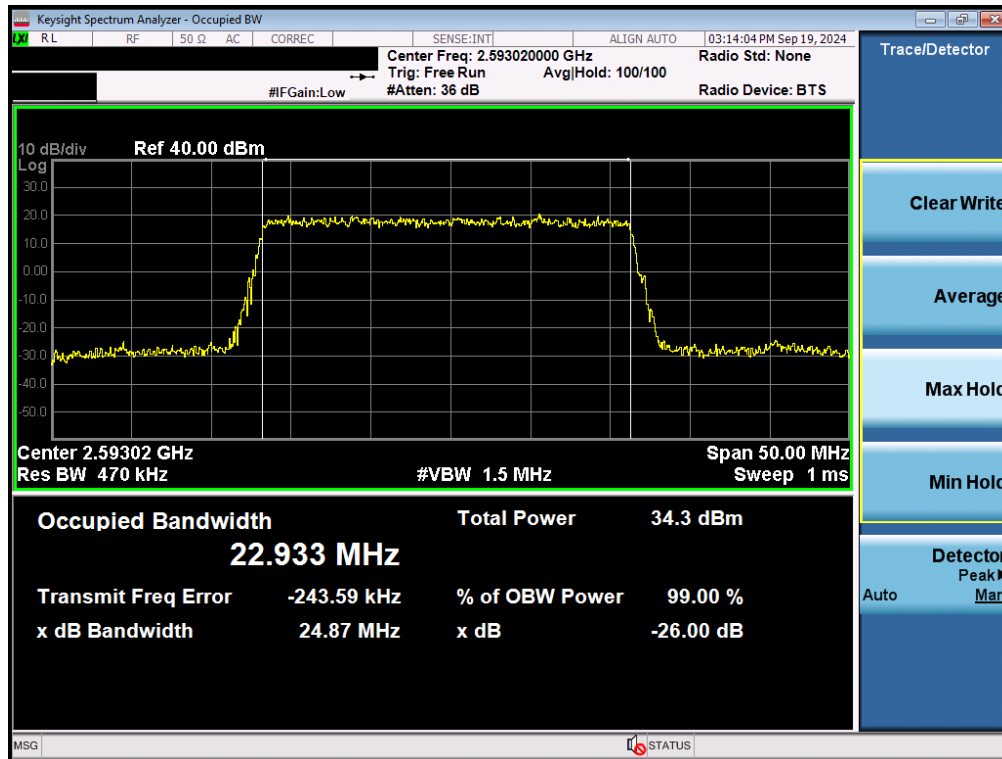


Plot 7-142. Occupied Bandwidth Plot (NR Band n41 - 30MHz QPSK - Full RB - Ant B)

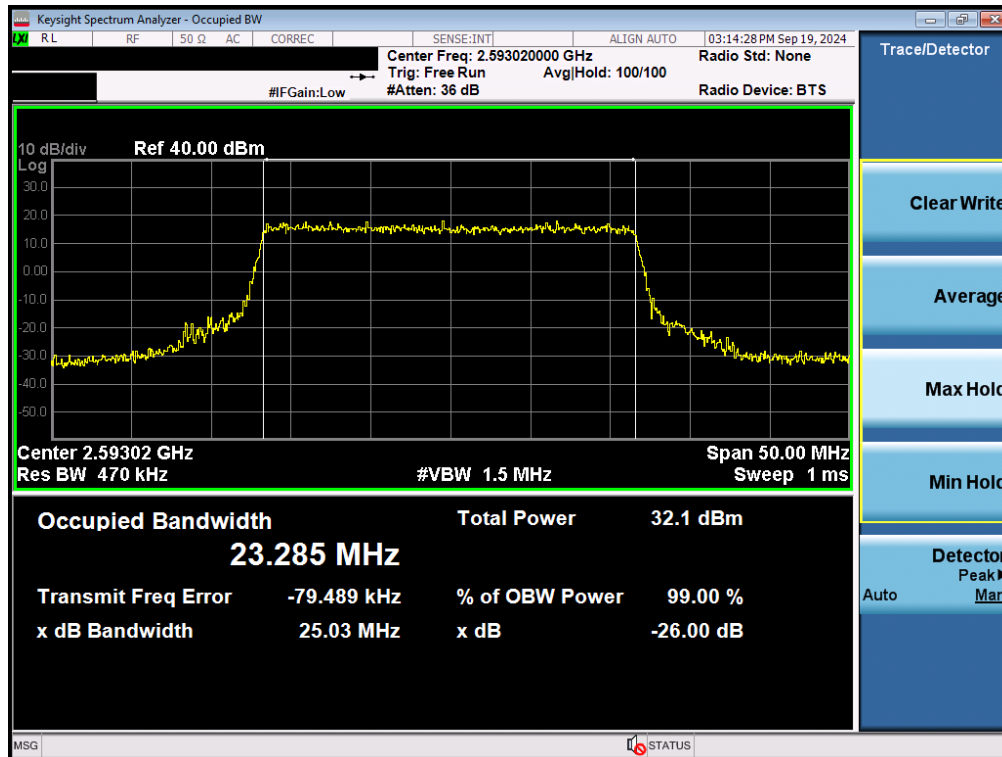


Plot 7-143. Occupied Bandwidth Plot (NR Band n41 - 30MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 95 of 281

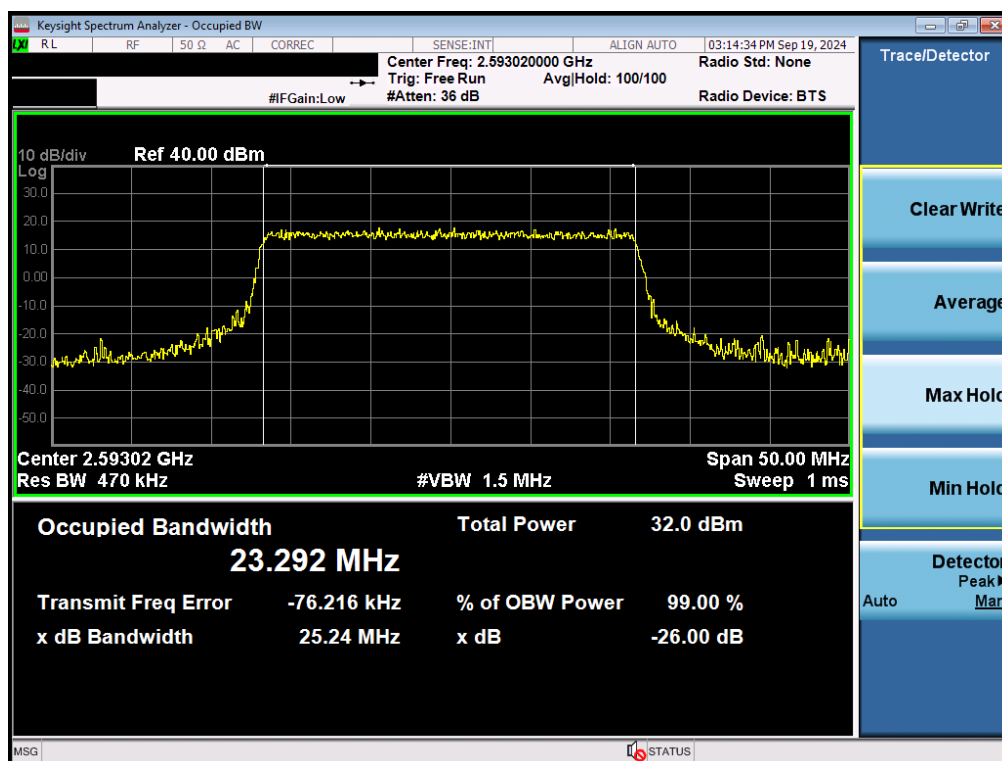


Plot 7-144. Occupied Bandwidth Plot (NR Band n41 - 25MHz $\pi/2$ BPSK - Full RB - Ant B)

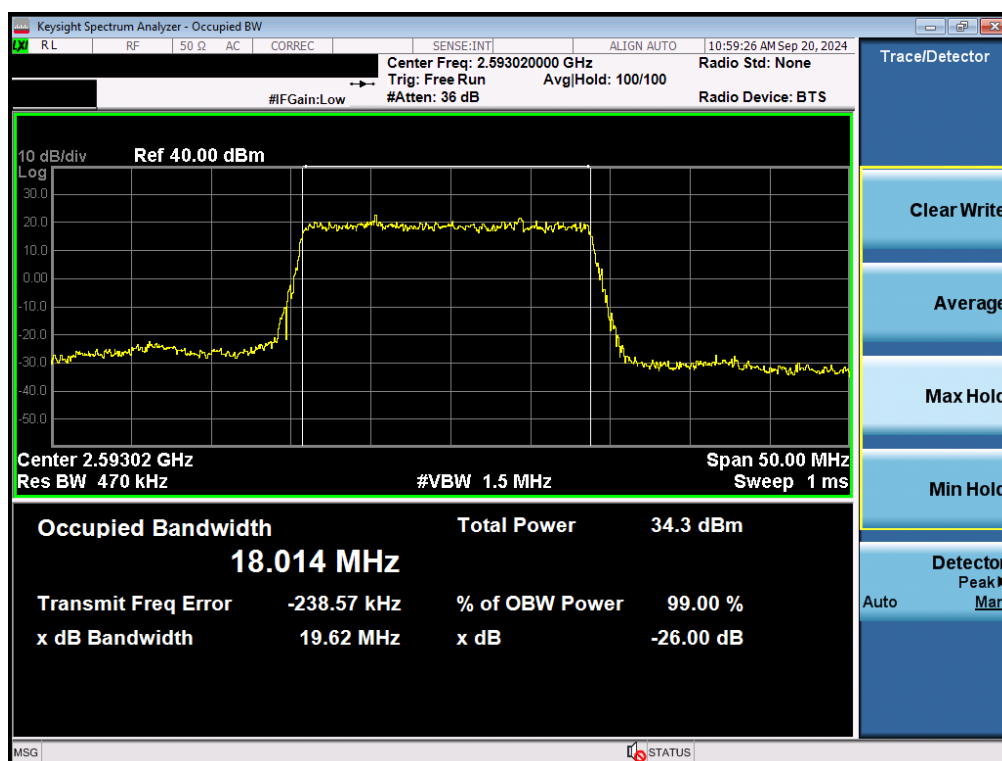


Plot 7-145. Occupied Bandwidth Plot (NR Band n41 - 25MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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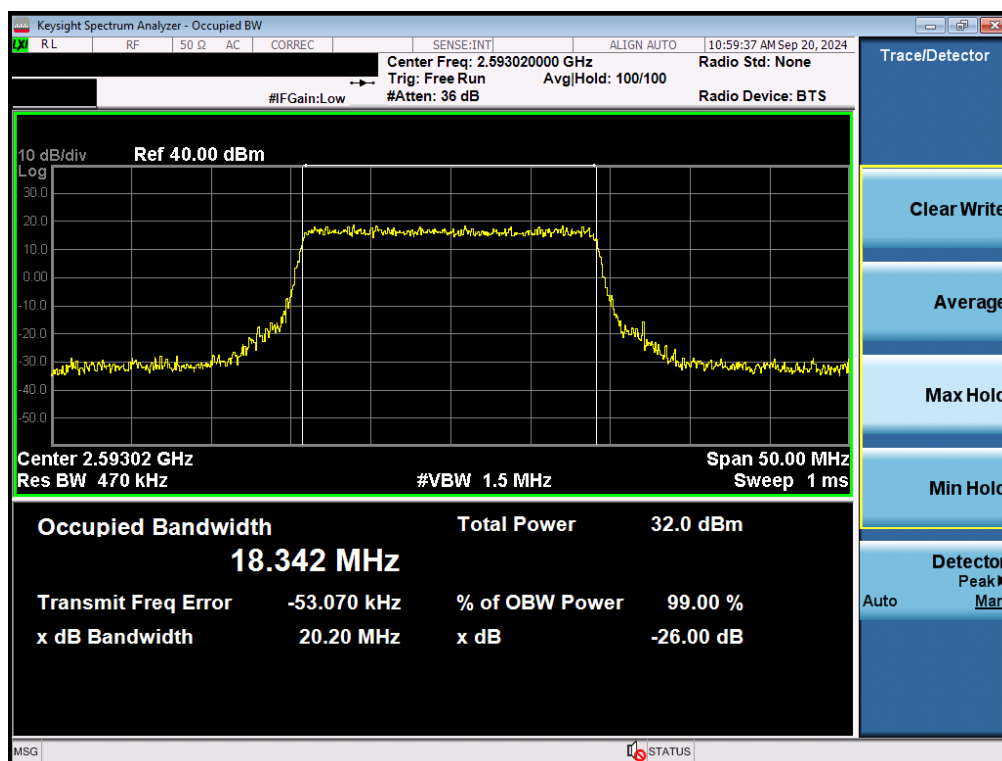


Plot 7-146. Occupied Bandwidth Plot (NR Band n41 - 25MHz 16-QAM - Full RB - Ant B)

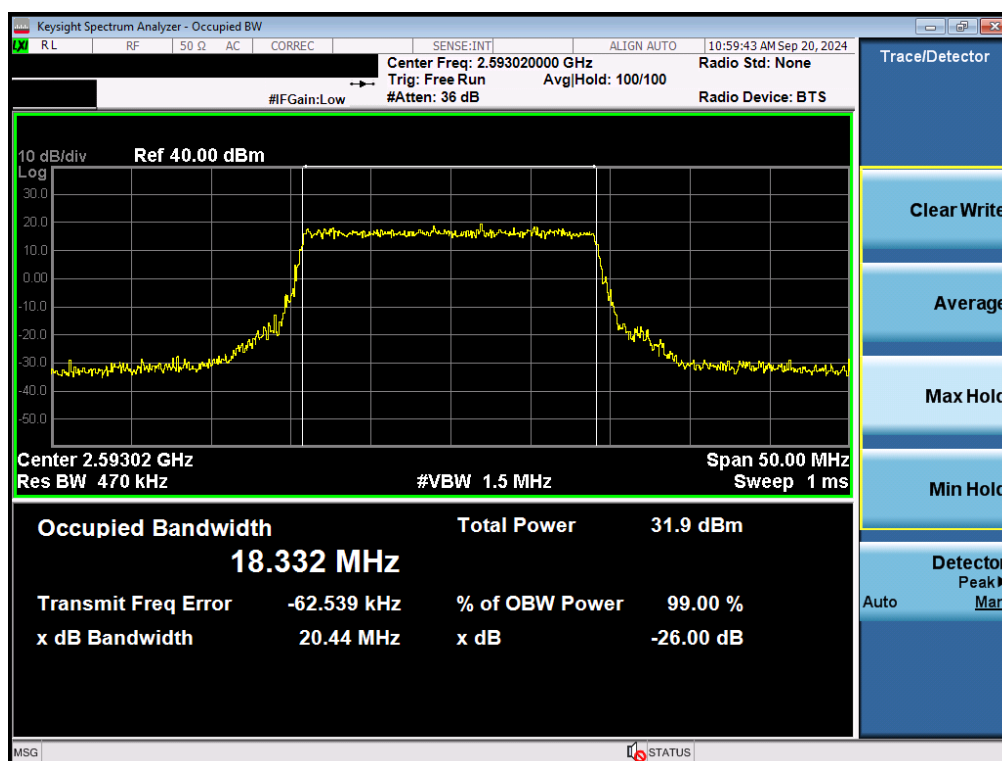


Plot 7-147. Occupied Bandwidth Plot (NR Band n41 - 20MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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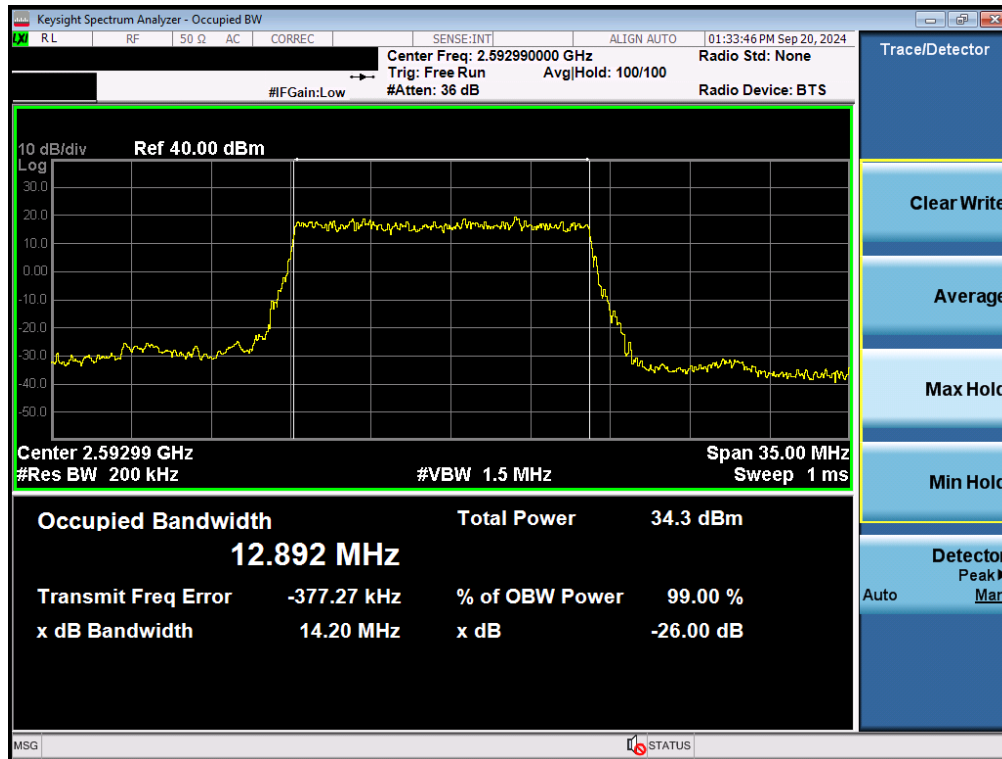


Plot 7-148. Occupied Bandwidth Plot (NR Band n41 - 20MHz QPSK - Full RB - Ant B)

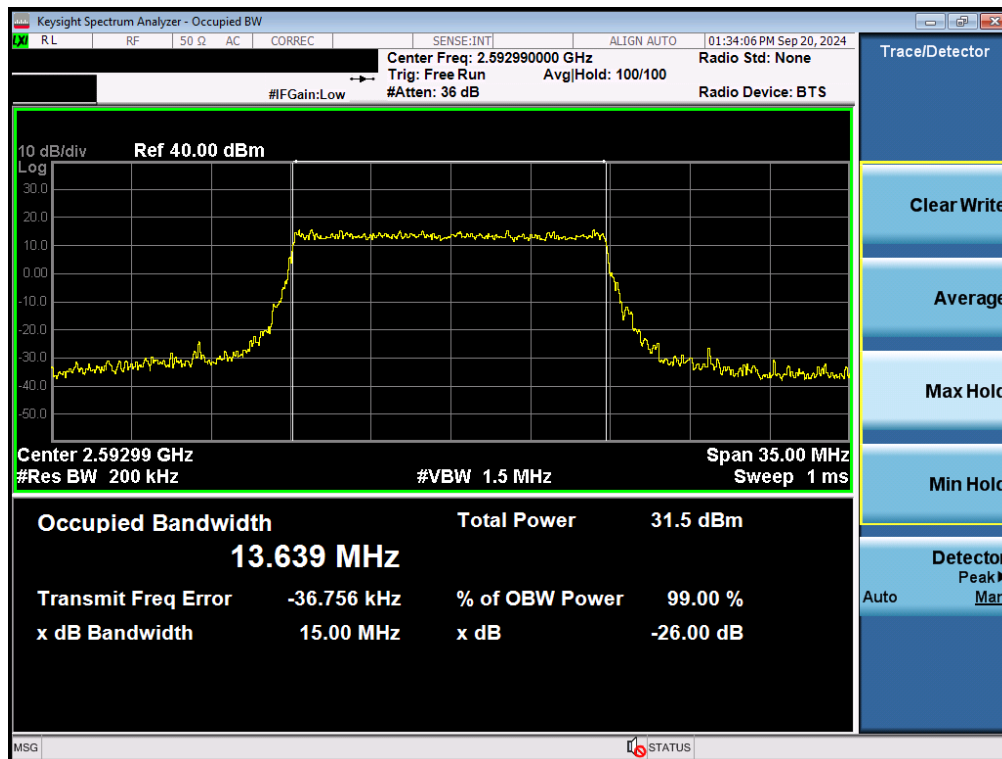


Plot 7-149. Occupied Bandwidth Plot (NR Band n41 - 20MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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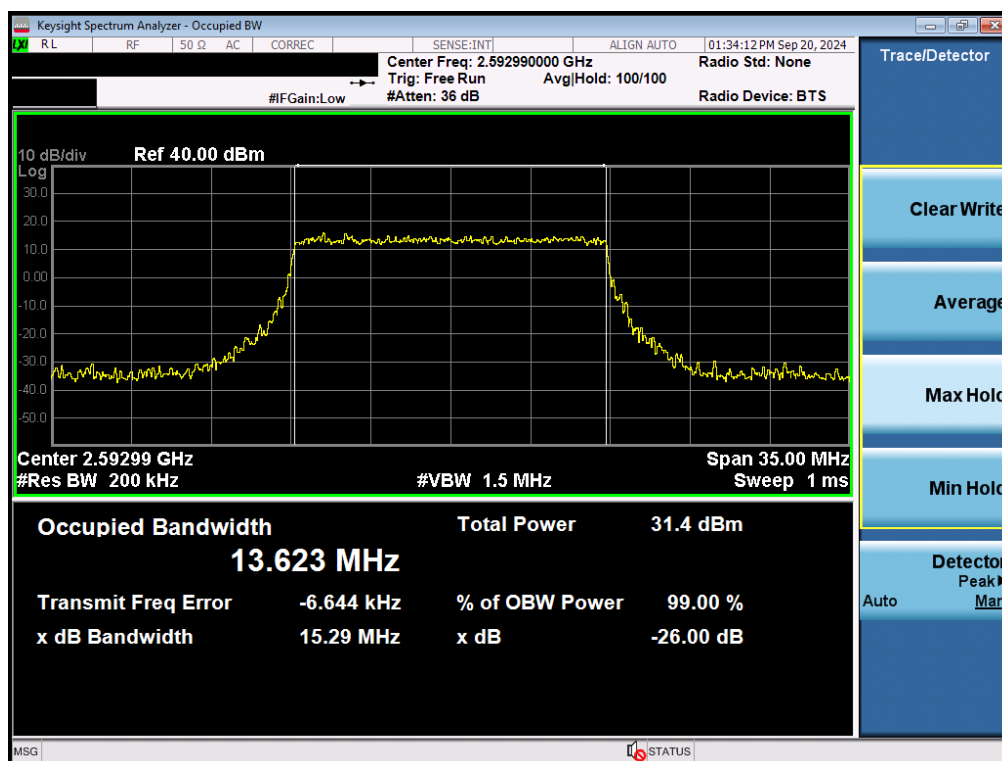


Plot 7-150. Occupied Bandwidth Plot (NR Band n41 - 15MHz $\pi/2$ BPSK - Full RB - Ant B)

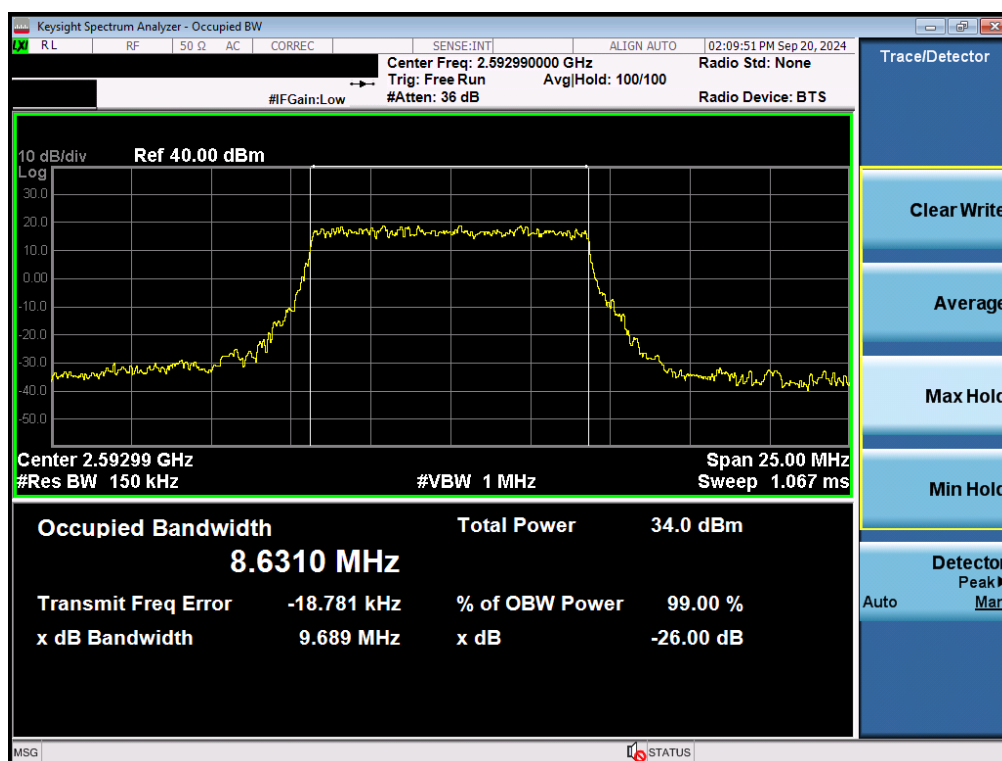


Plot 7-151. Occupied Bandwidth Plot (NR Band n41 - 15MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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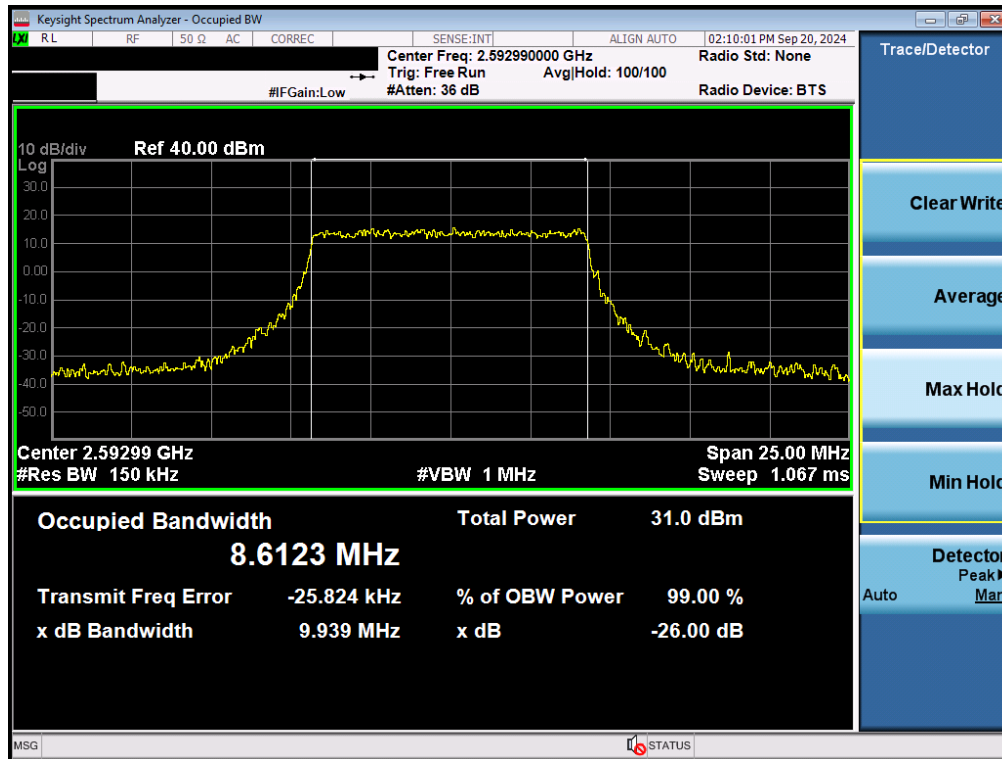


Plot 7-152. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB - Ant B)



Plot 7-153. Occupied Bandwidth Plot (NR Band n41 - 10MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-154. Occupied Bandwidth Plot (NR Band n41 - 10MHz QPSK - Full RB - Ant B)



Plot 7-155. Occupied Bandwidth Plot (NR Band n41 - 10MHz 16-QAM - Full RB - Ant B)

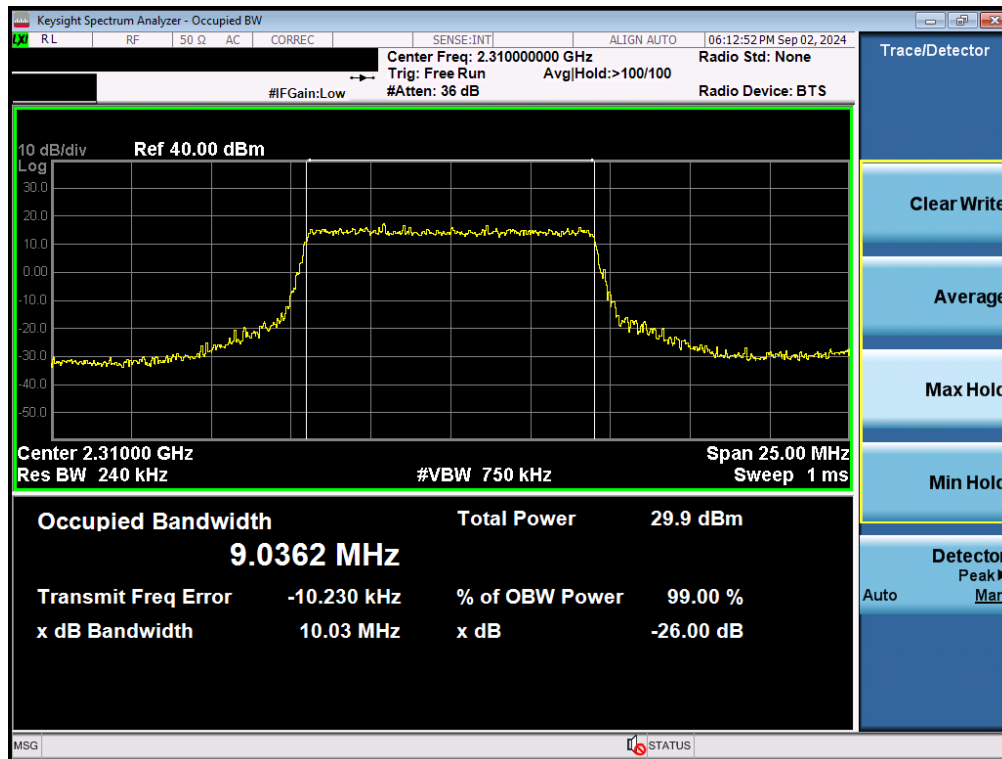
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 101 of 281

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B30	10MHz	QPSK	9.04
		16QAM	9.04
	5MHz	QPSK	4.55
		16QAM	4.52
LTE-B7 ULCA	20+20MHz	QPSK	37.78
		16QAM	37.75
LTE-B7	20MHz	QPSK	17.92
		16QAM	17.97
	15MHz	QPSK	13.49
		16QAM	13.52
	10MHz	QPSK	9.04
		16QAM	9.04
	5MHz	QPSK	4.54
		16QAM	4.54
LTE-B41PC3-38	20MHz	QPSK	18.03
		16QAM	18.05
	15MHz	QPSK	13.53
		16QAM	13.51
	10MHz	QPSK	9.00
		16QAM	9.02
	5MHz	QPSK	4.52
		16QAM	4.52

Table 7-8. Occupied Bandwidth Test Results – LTE – Ant F

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 30 – Ant F

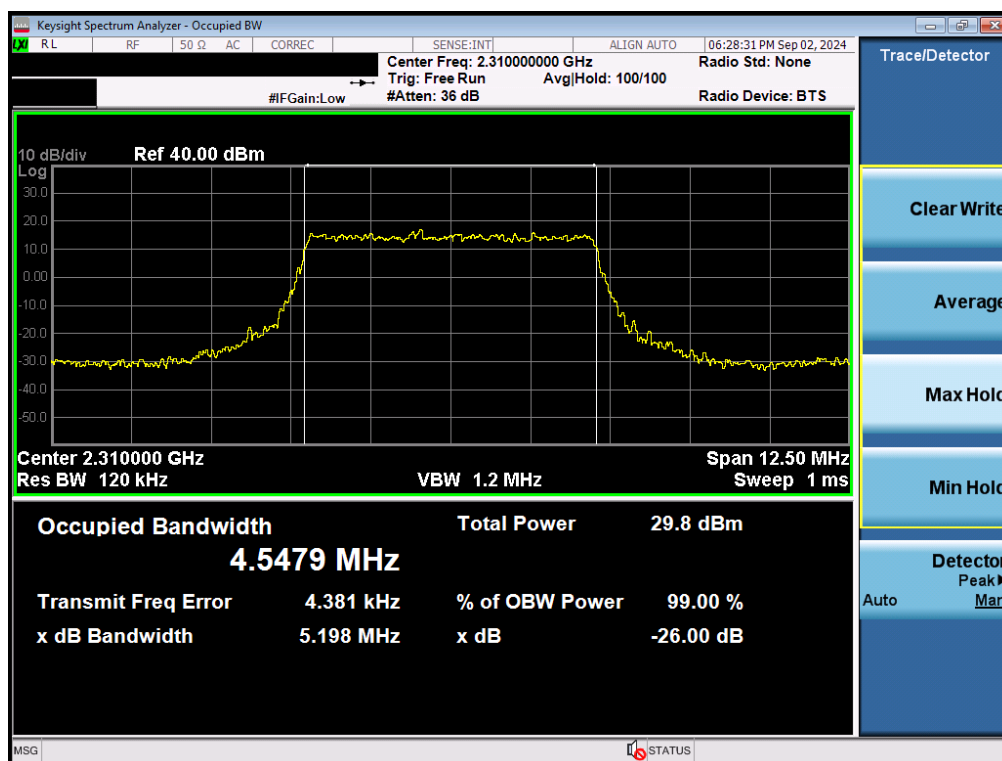


Plot 7-156. Occupied Bandwidth Plot (LTE Band 30 - 10MHz QPSK - Full RB - Ant F – Ant A)

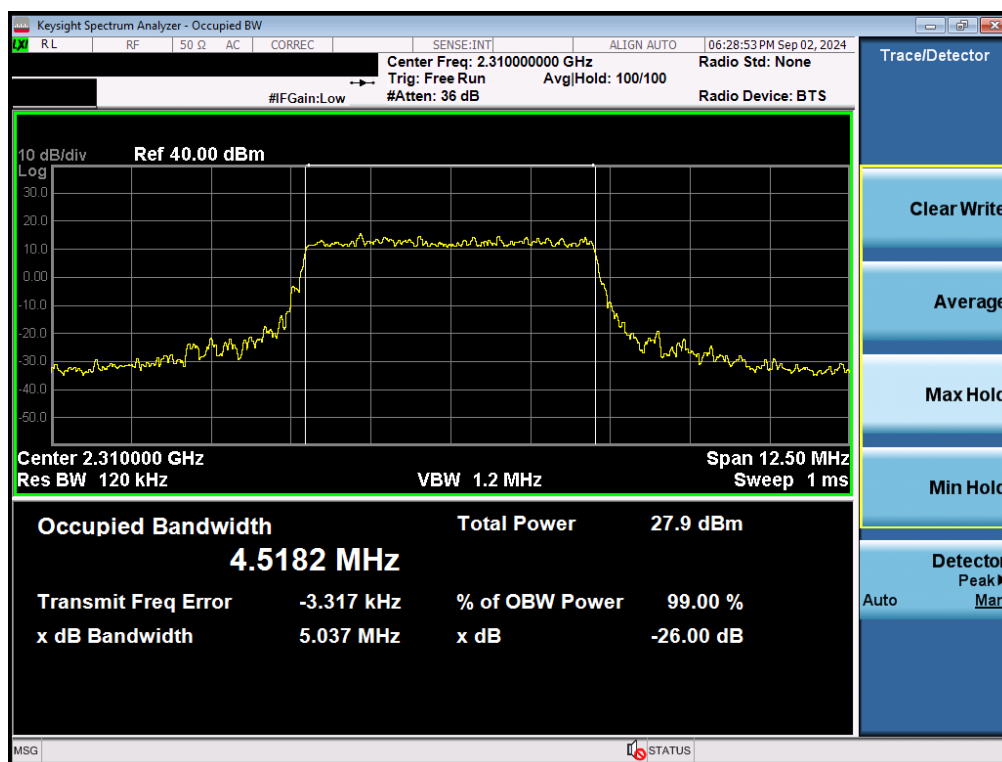


Plot 7-157. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 16-QAM - Full RB - Ant F)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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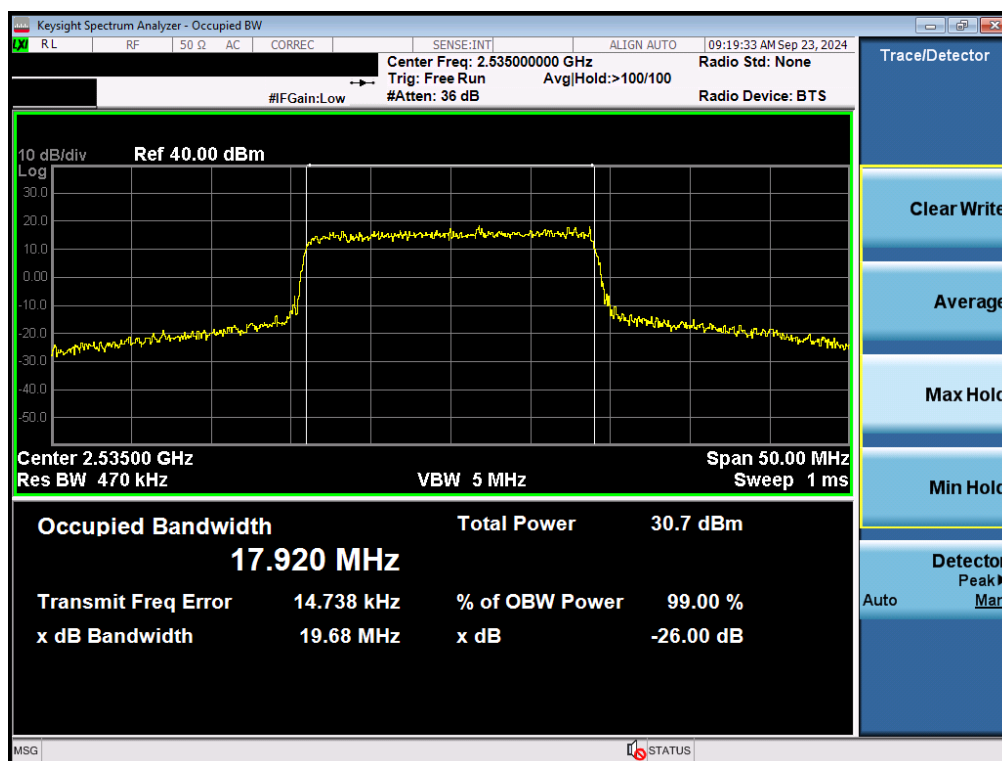
Plot 7-158. Occupied Bandwidth Plot (LTE Band 30 - 5MHz QPSK - Full RB - Ant A)



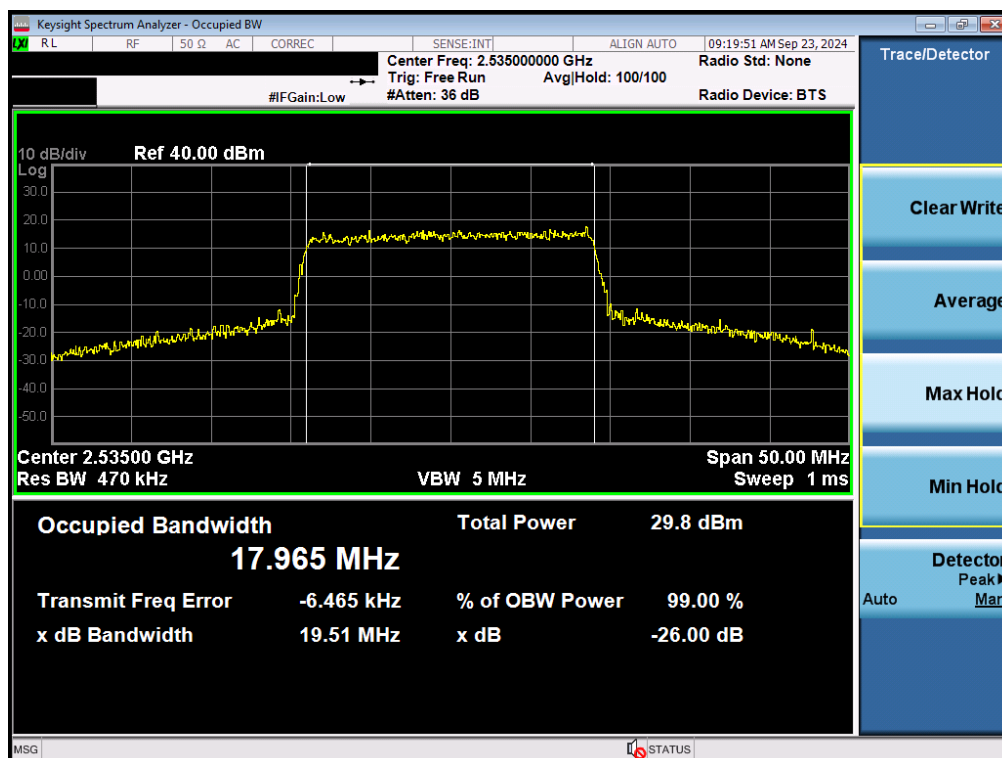
Plot 7-159. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 16-QAM - Full RB - Ant A)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7 – Ant F



Plot 7-160. Occupied Bandwidth Plot (LTE Band 7 - 20MHz QPSK - Full RB - Ant B)

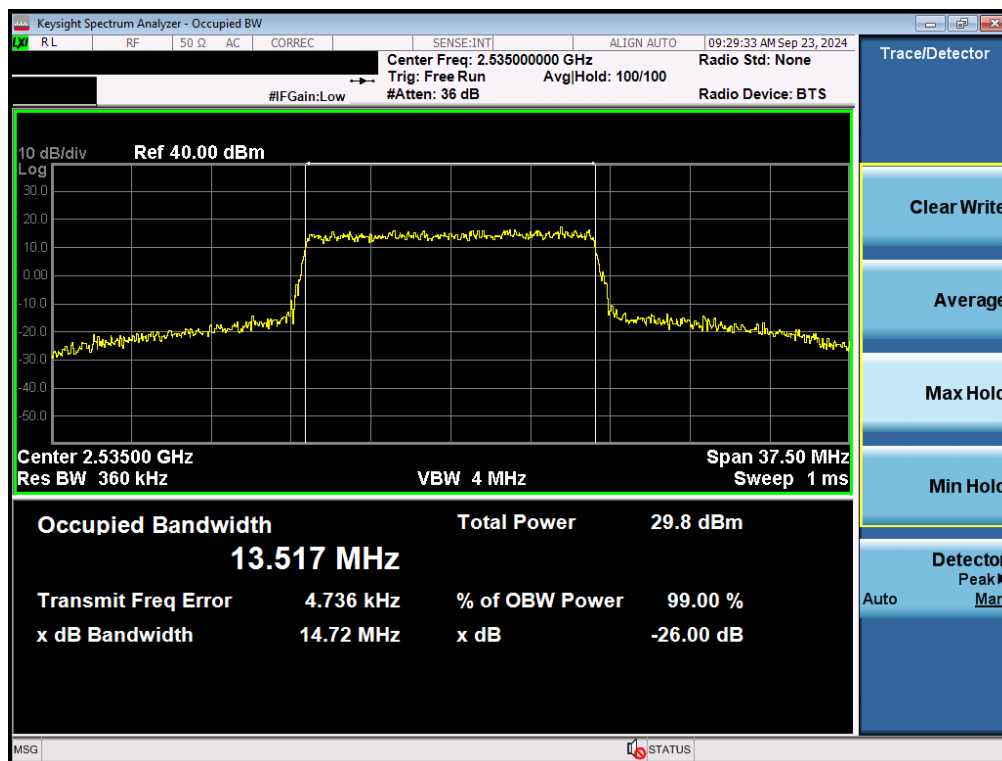


Plot 7-161. Occupied Bandwidth Plot (LTE Band 7 - 20MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-162. Occupied Bandwidth Plot (LTE Band 7 - 15MHz QPSK - Full RB - Ant B)



Plot 7-163. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 106 of 281

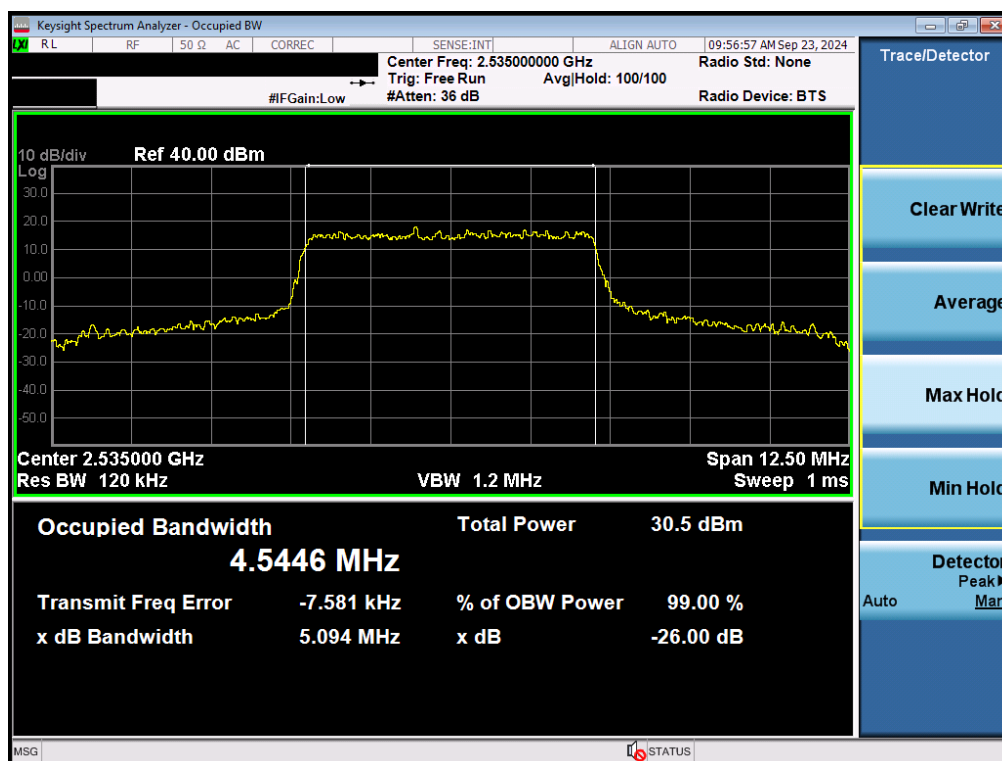


Plot 7-164. Occupied Bandwidth Plot (LTE Band 7 - 10MHz QPSK - Full RB - Ant B)

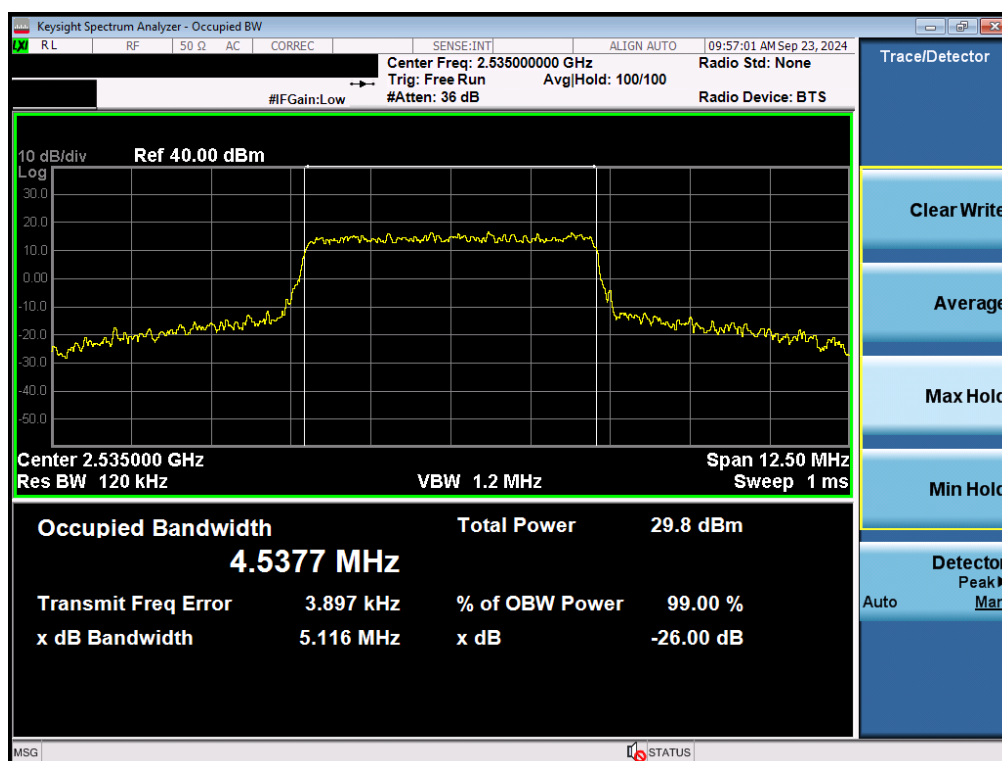


Plot 7-165. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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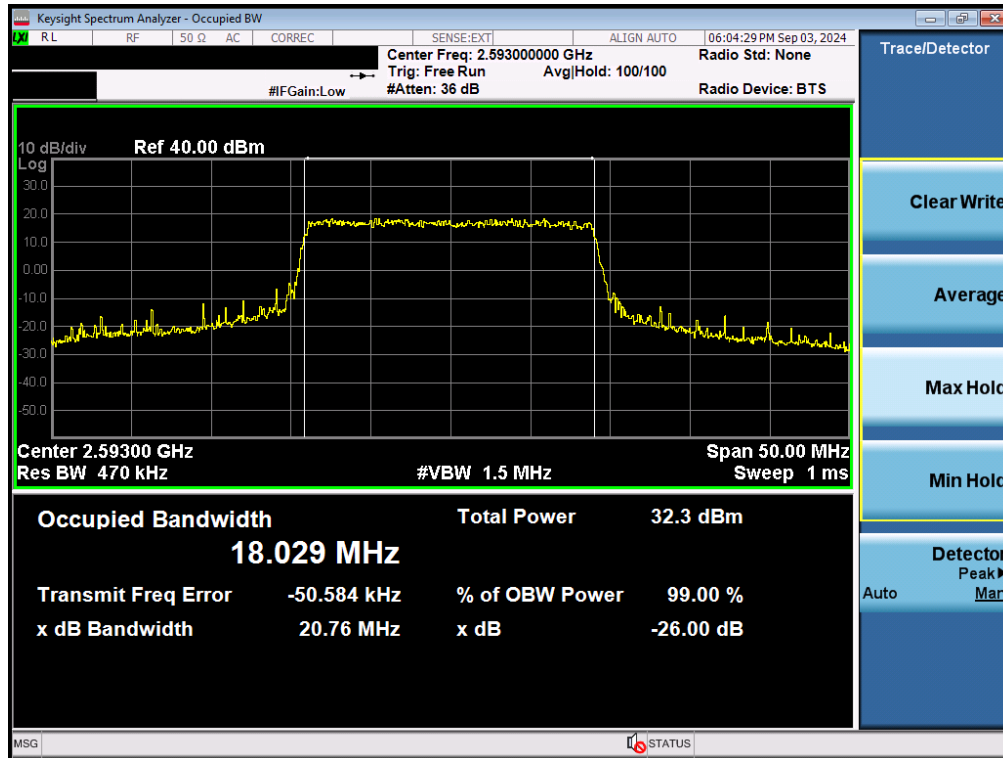
Plot 7-166. Occupied Bandwidth Plot (LTE Band 7 - 5MHz QPSK - Full RB - Ant B)



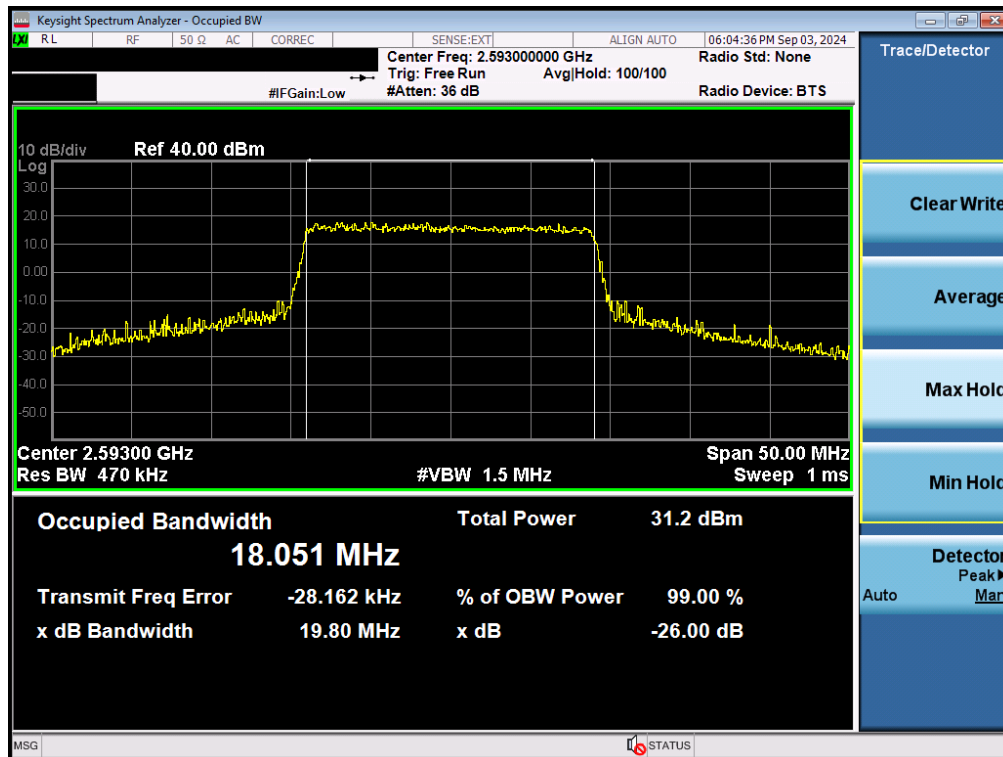
Plot 7-167. Occupied Bandwidth Plot (LTE Band 7 - 5MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41(PC3)/38 – Ant F

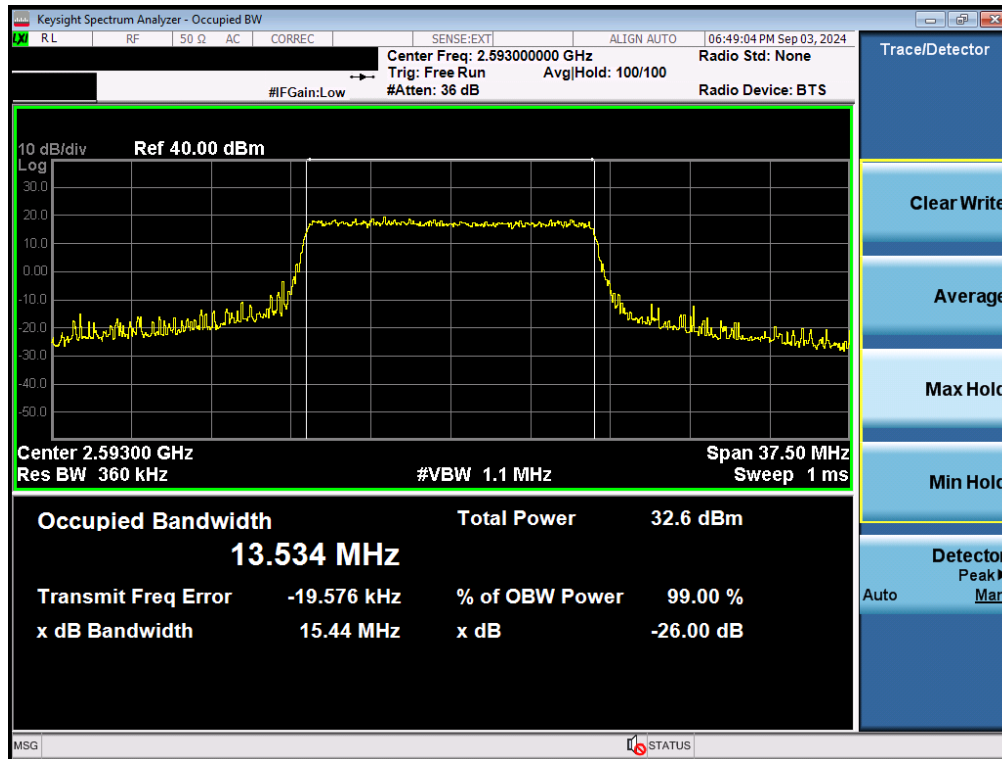


Plot 7-168. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - Full RB - Ant B)

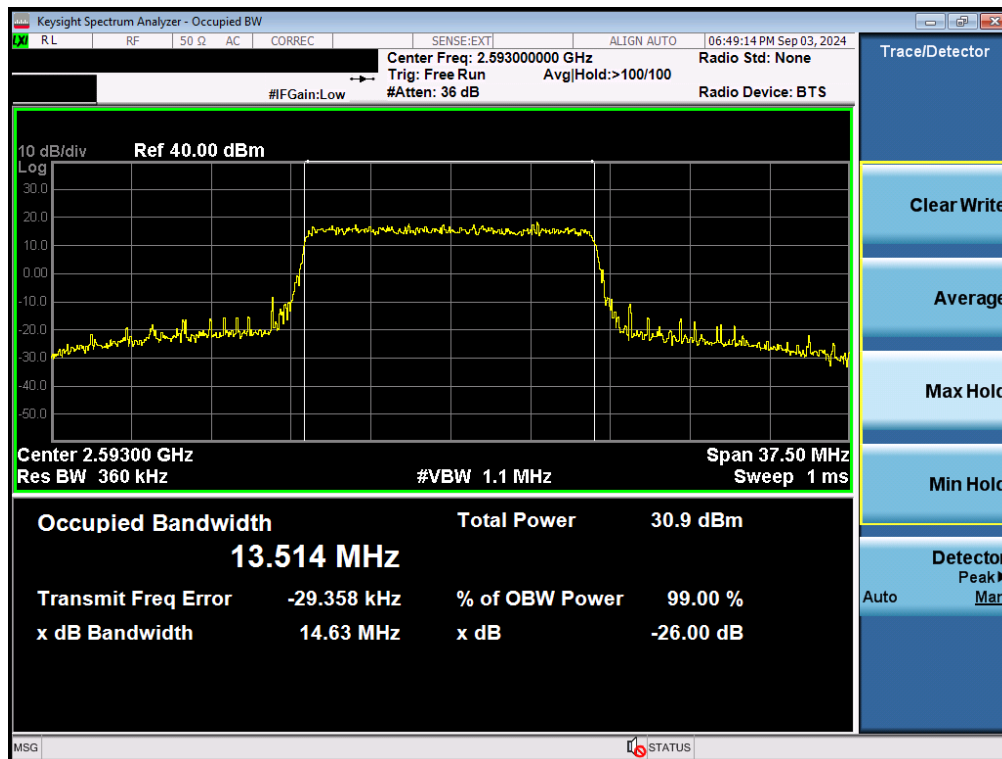


Plot 7-169. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 20MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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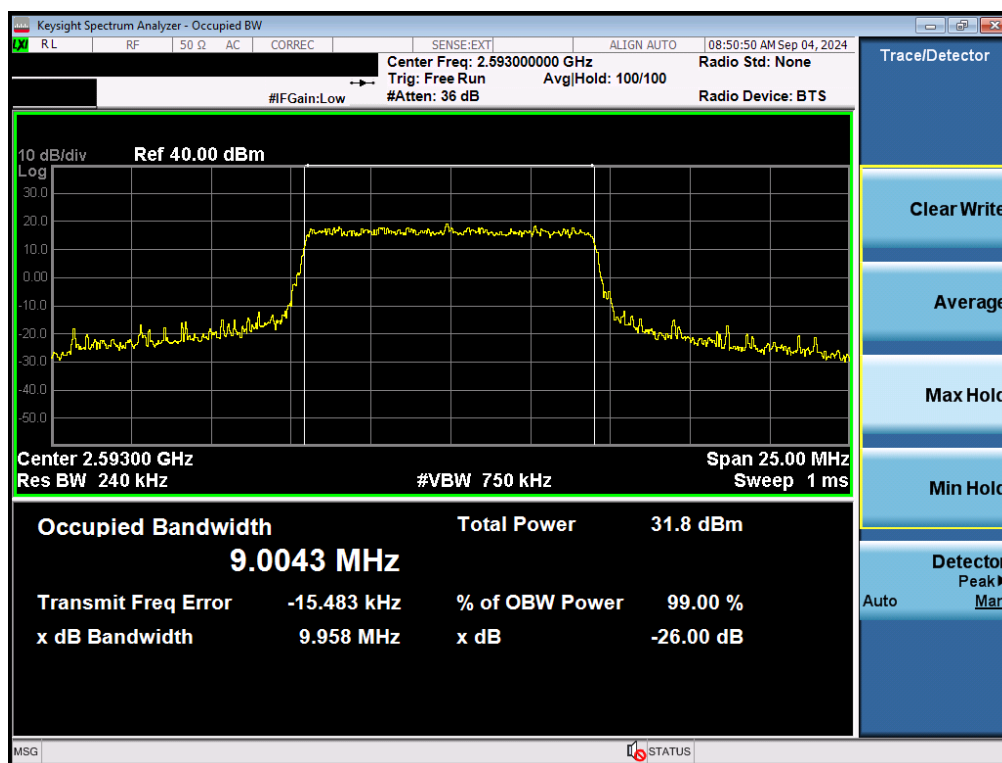


Plot 7-170. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 15MHz QPSK - Full RB - Ant B)

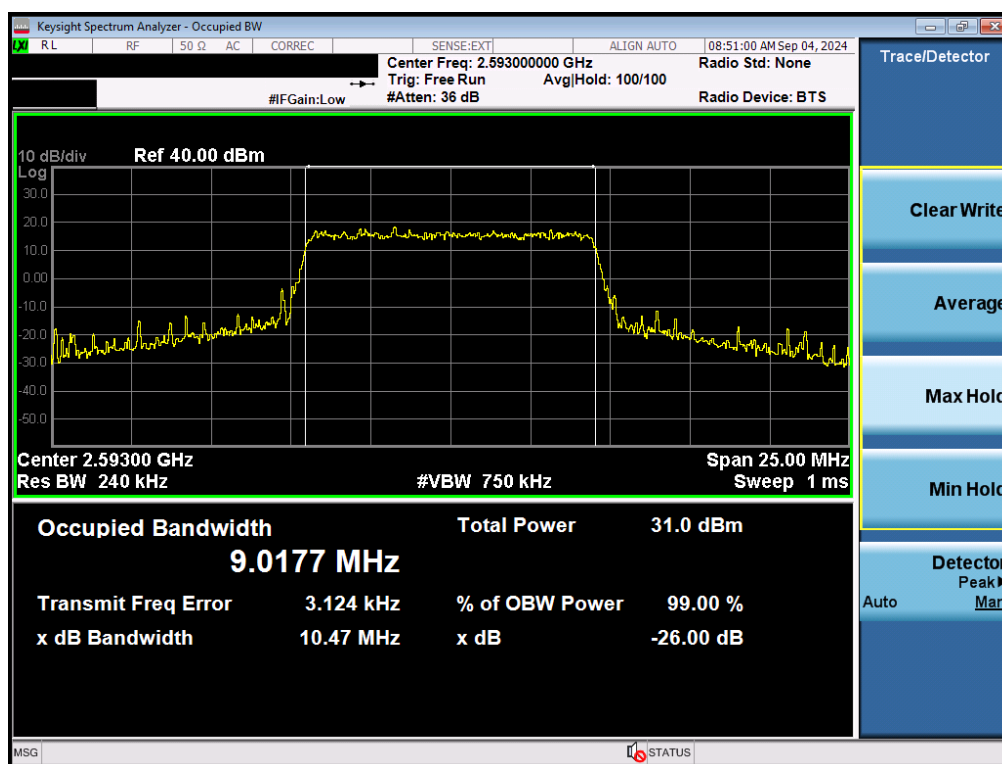


Plot 7-171. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 15MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-172. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 10MHz QPSK - Full RB - Ant B)



Plot 7-173. Occupied Bandwidth Plot (LTE Band 41(PC3)/38 - 10MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-174. Occupied Bandwidth Plot (LTE Band 41(PCI)38 - 5MHz QPSK - Full RB - Ant B)



Plot 7-175. Occupied Bandwidth Plot (LTE Band 41(PCI)38 - 5MHz 16-QAM - Full RB - Ant B)

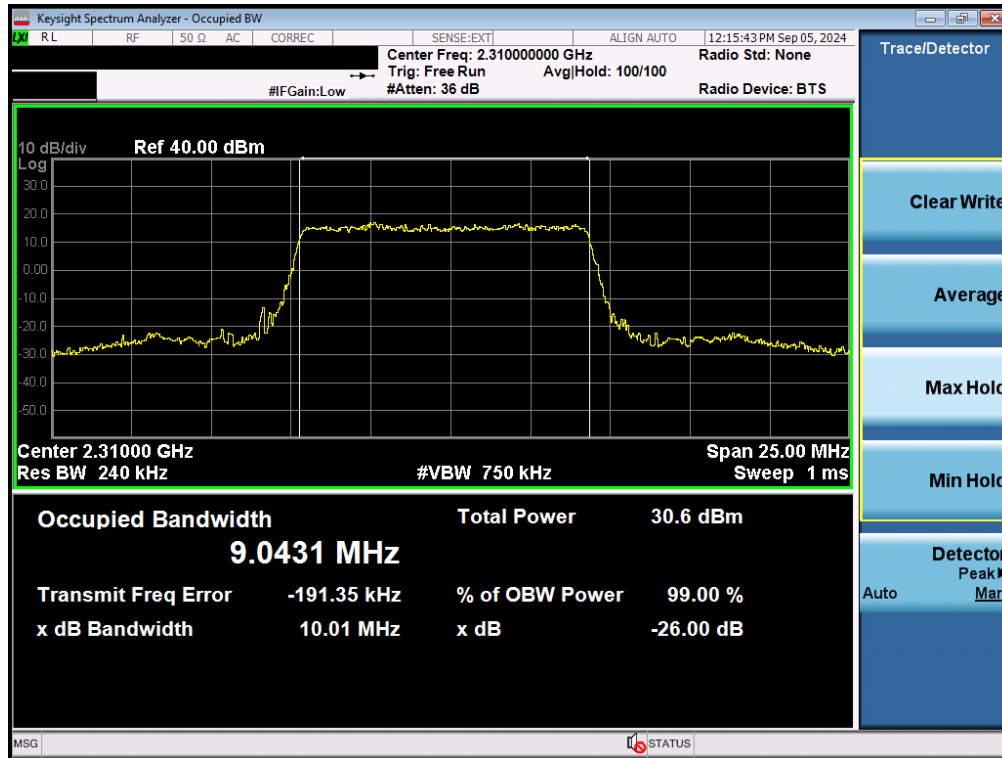
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 112 of 281

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n30	10MHz	$\pi/2$ BPSK	9.04
		QPSK	9.40
		16QAM	9.39
	5MHz	$\pi/2$ BPSK	4.52
		QPSK	4.53
		16QAM	4.52
NR-n7	50MHz	$\pi/2$ BPSK	48.28
		QPSK	48.27
		16QAM	48.33
	40MHz	$\pi/2$ BPSK	38.59
		QPSK	38.74
		16QAM	38.65
	35MHz	$\pi/2$ BPSK	32.33
		QPSK	33.82
		16QAM	33.77
	30MHz	$\pi/2$ BPSK	28.62
		QPSK	28.66
		16QAM	28.61
	25MHz	$\pi/2$ BPSK	22.89
		QPSK	23.85
		16QAM	23.90
	20MHz	$\pi/2$ BPSK	17.92
		QPSK	18.99
		16QAM	19.00
	15MHz	$\pi/2$ BPSK	13.44
		QPSK	14.14
		16QAM	14.15
	10MHz	$\pi/2$ BPSK	8.99
		QPSK	9.37
		16QAM	9.37
	5MHz	$\pi/2$ BPSK	4.53
		QPSK	4.54
		16QAM	4.53

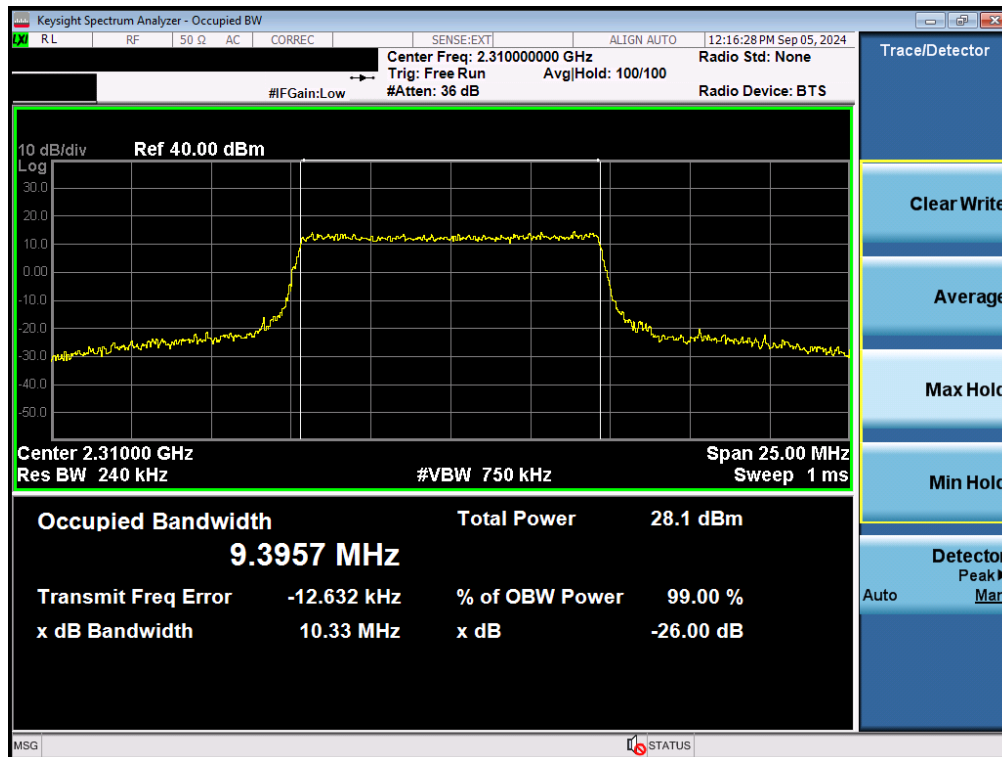
Table 7-9. Occupied Bandwidth Test Results – NR – Ant F

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30 – Ant F

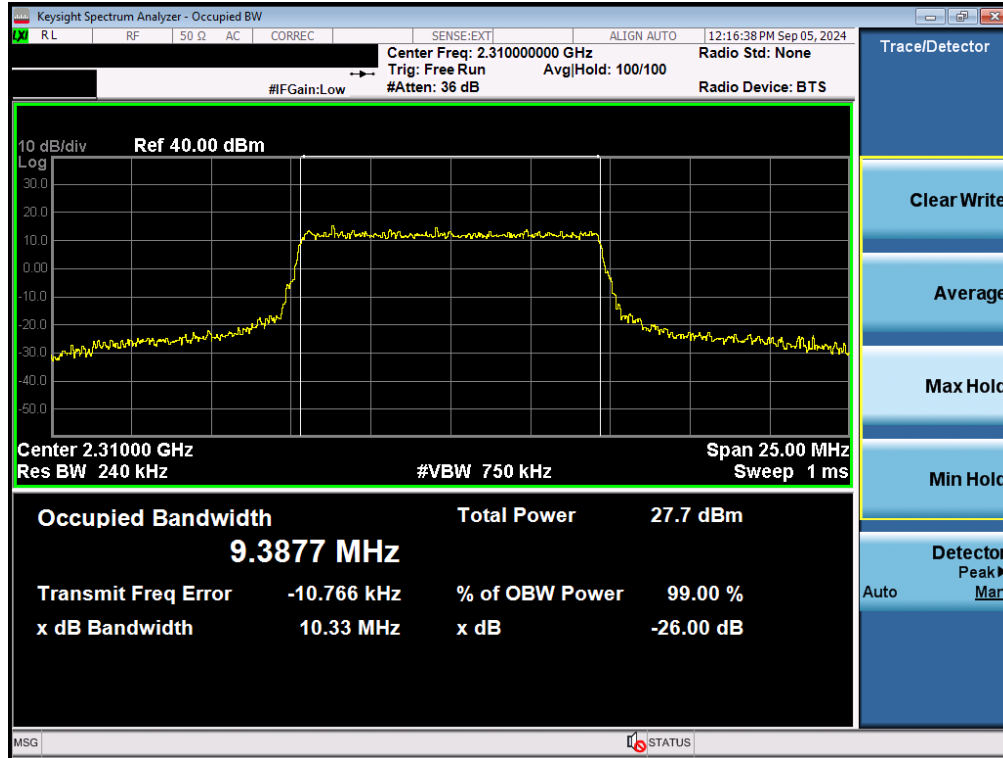


Plot 7-176. Occupied Bandwidth Plot (NR Band n30 - 10MHz $\pi/2$ BPSK - Full RB - Ant A)

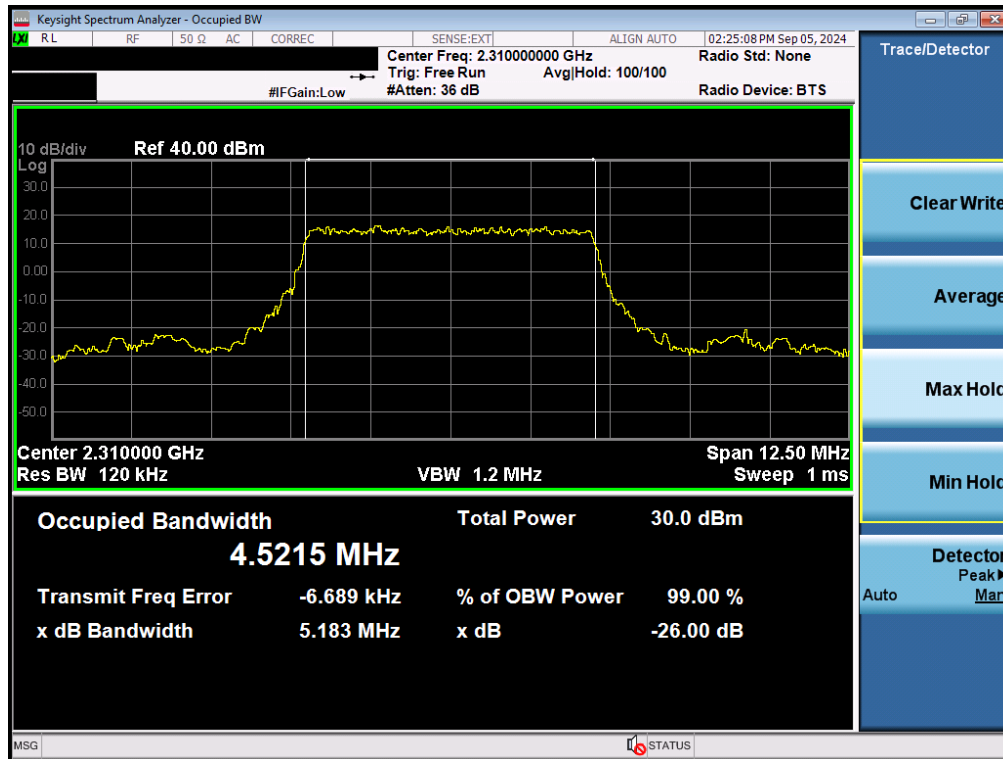


Plot 7-177. Occupied Bandwidth Plot (NR Band n30 - 10MHz QPSK - Full RB - Ant A)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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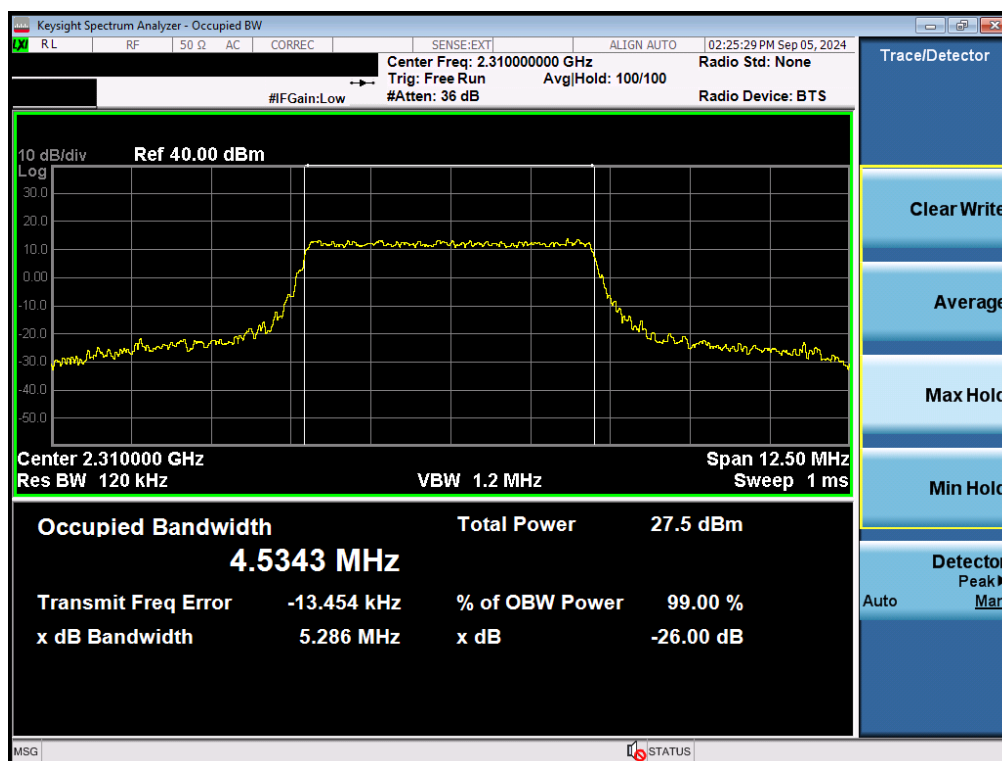


Plot 7-178. Occupied Bandwidth Plot (NR Band n30 - 10MHz 16-QAM - Full RB - Ant A)

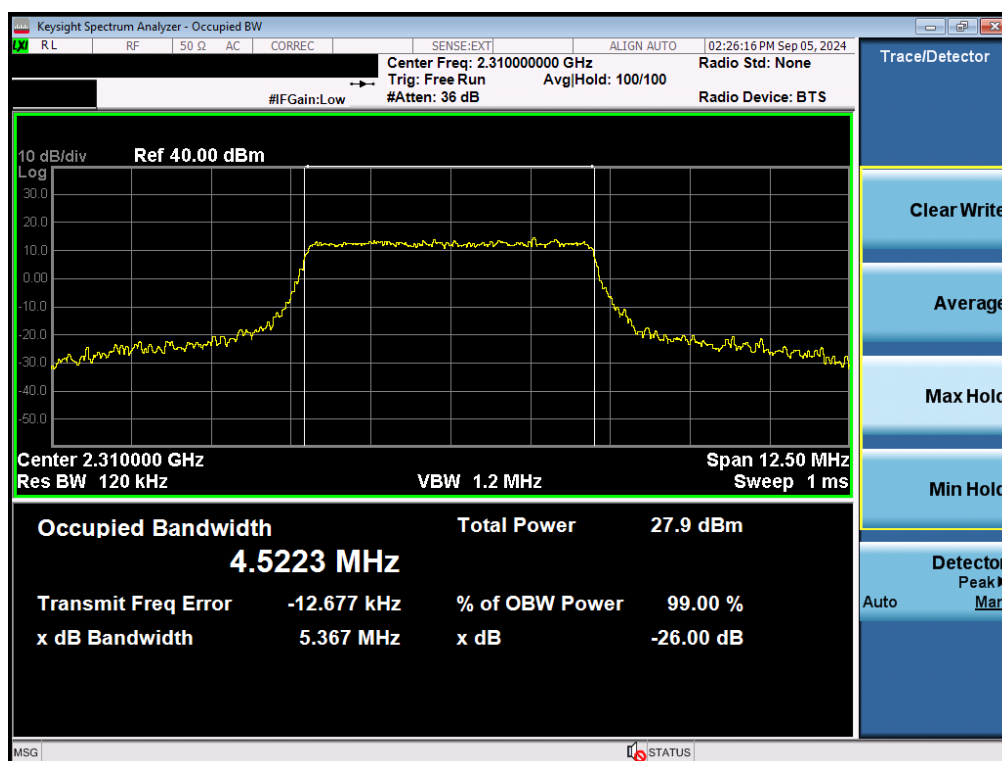


Plot 7-179. Occupied Bandwidth Plot (NR Band n30 - 5MHz $\pi/2$ BPSK - Full RB - Ant A)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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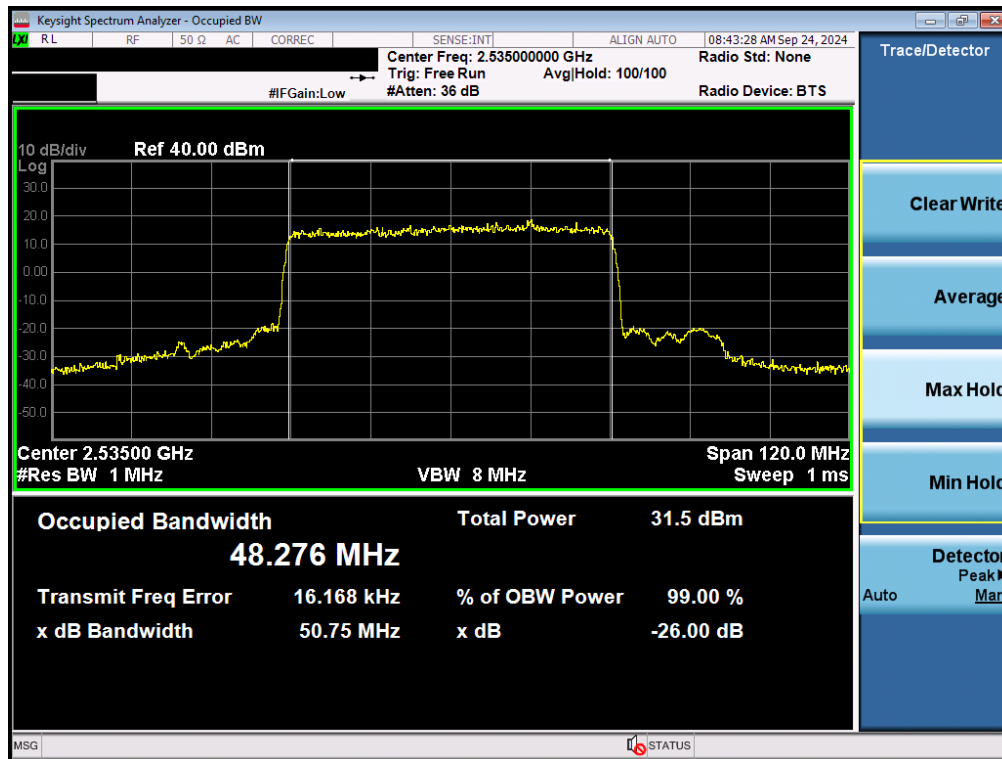
Plot 7-180. Occupied Bandwidth Plot (NR Band n30 - 5MHz QPSK - Full RB - Ant A)



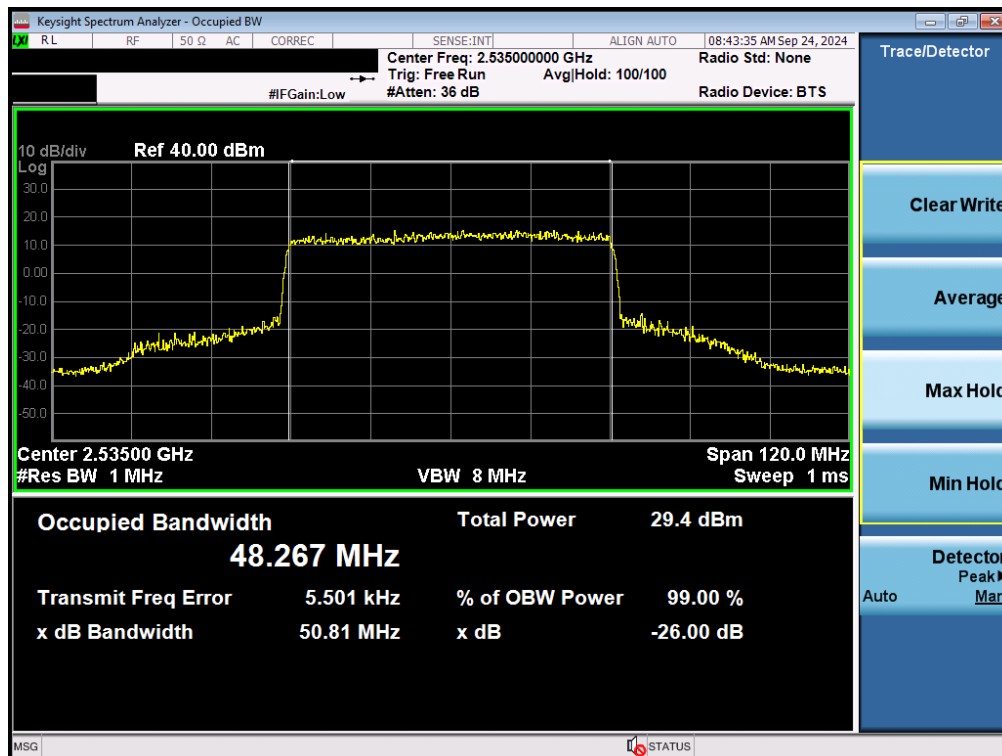
Plot 7-181. Occupied Bandwidth Plot (NR Band n30 - 5MHz 16-QAM - Full RB - Ant A)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7 – Ant F

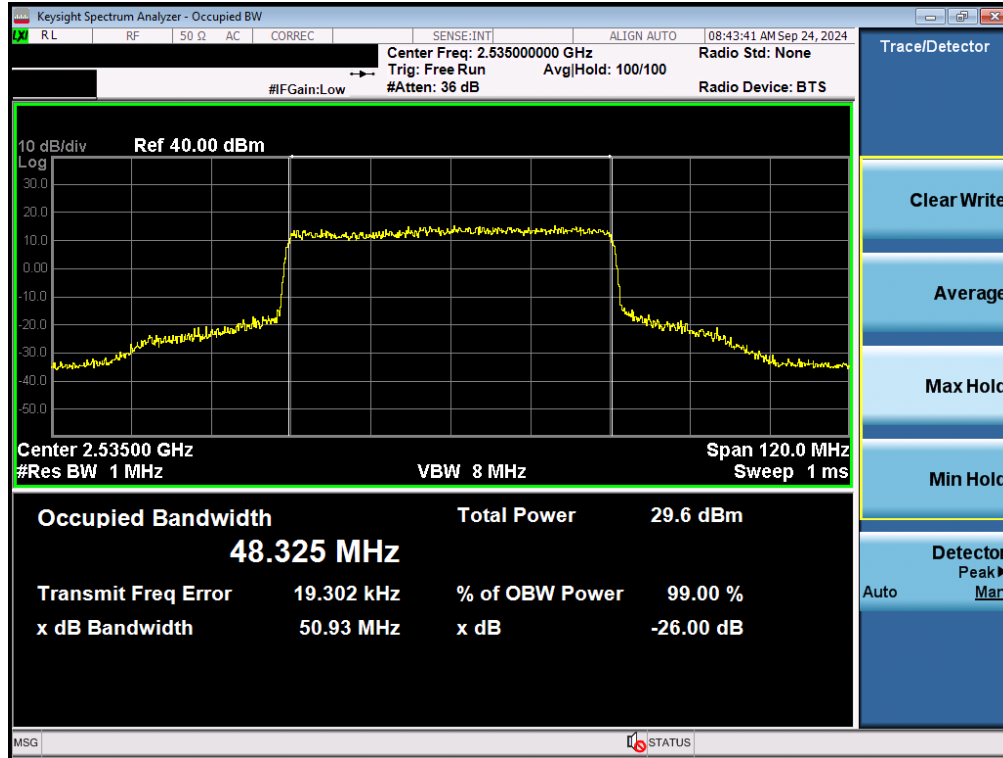


Plot 7-182. Occupied Bandwidth Plot (NR Band n7 - 50MHz $\pi/2$ BPSK - Full RB - Ant B)

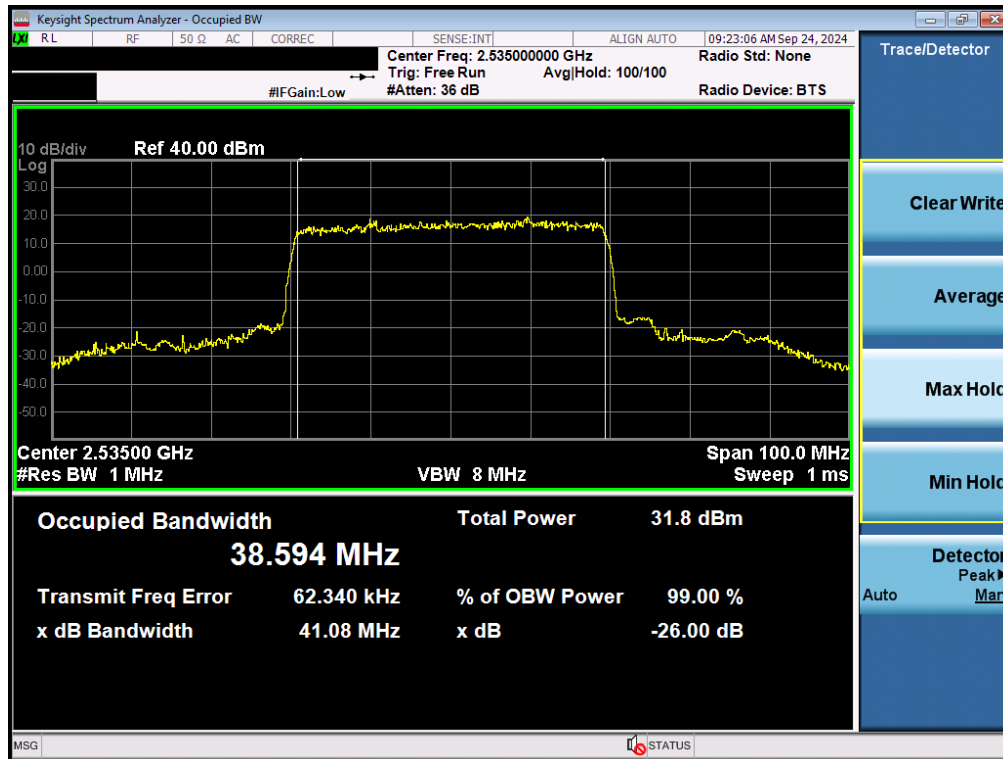


Plot 7-183. Occupied Bandwidth Plot (NR Band n7 - 50MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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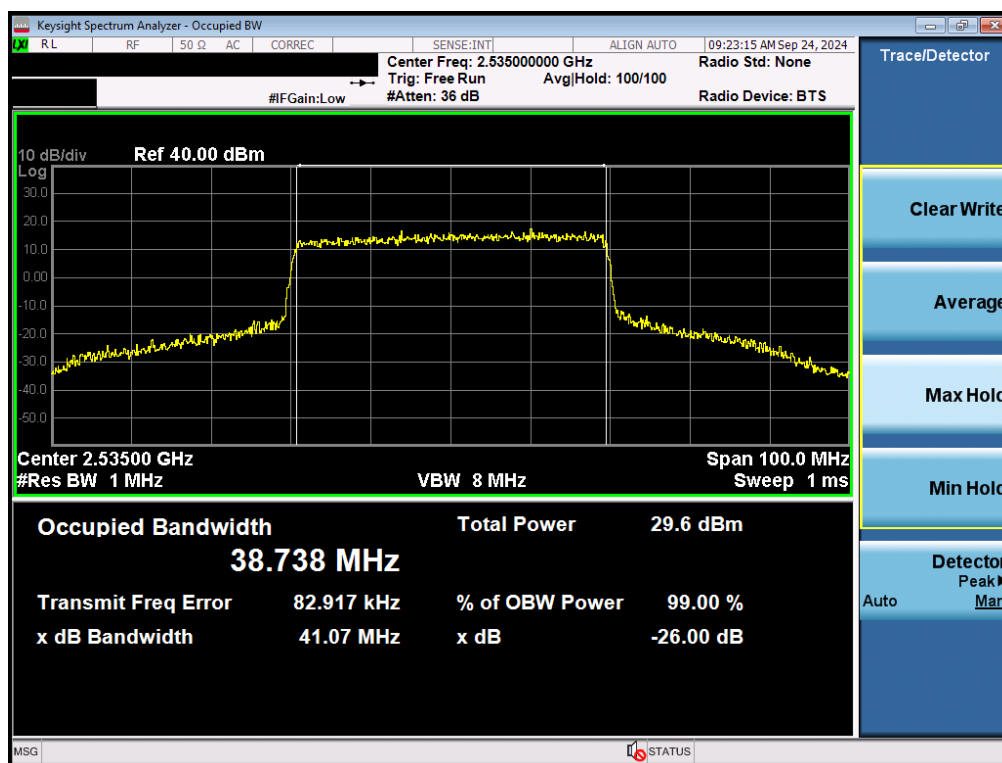


Plot 7-184. Occupied Bandwidth Plot (NR Band n7 - 50MHz 16-QAM - Full RB - Ant B)

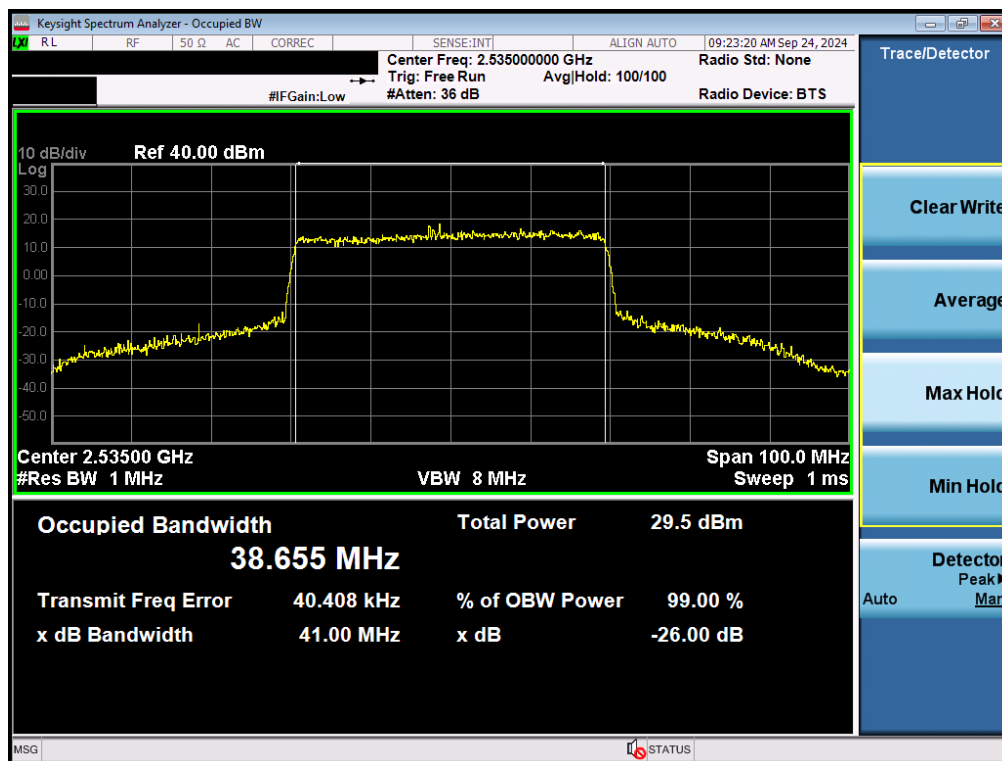


Plot 7-185. Occupied Bandwidth Plot (NR Band n7 - 40MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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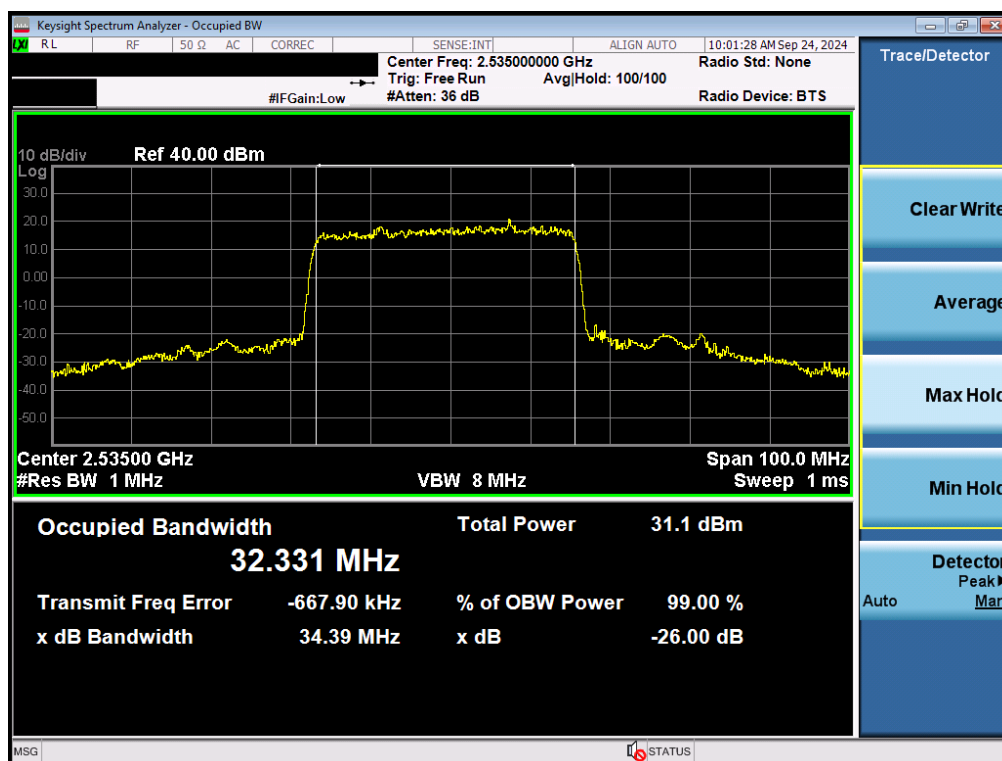


Plot 7-186. Occupied Bandwidth Plot (NR Band n7 - 40MHz QPSK - Full RB - Ant B)

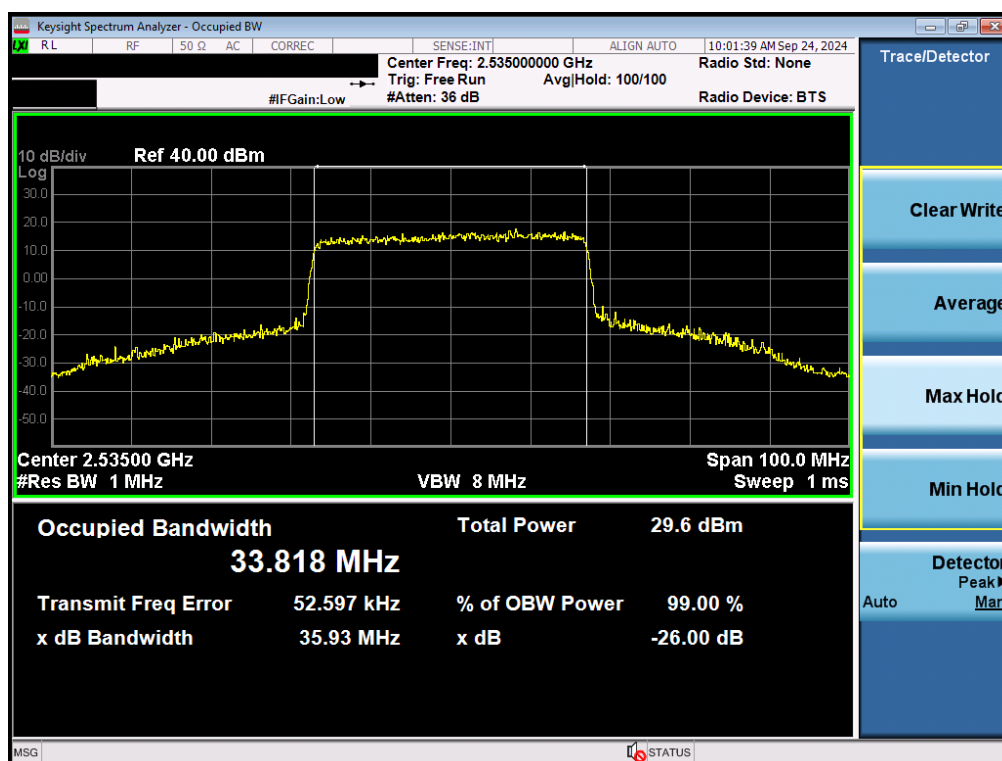


Plot 7-187. Occupied Bandwidth Plot (NR Band n7 - 40MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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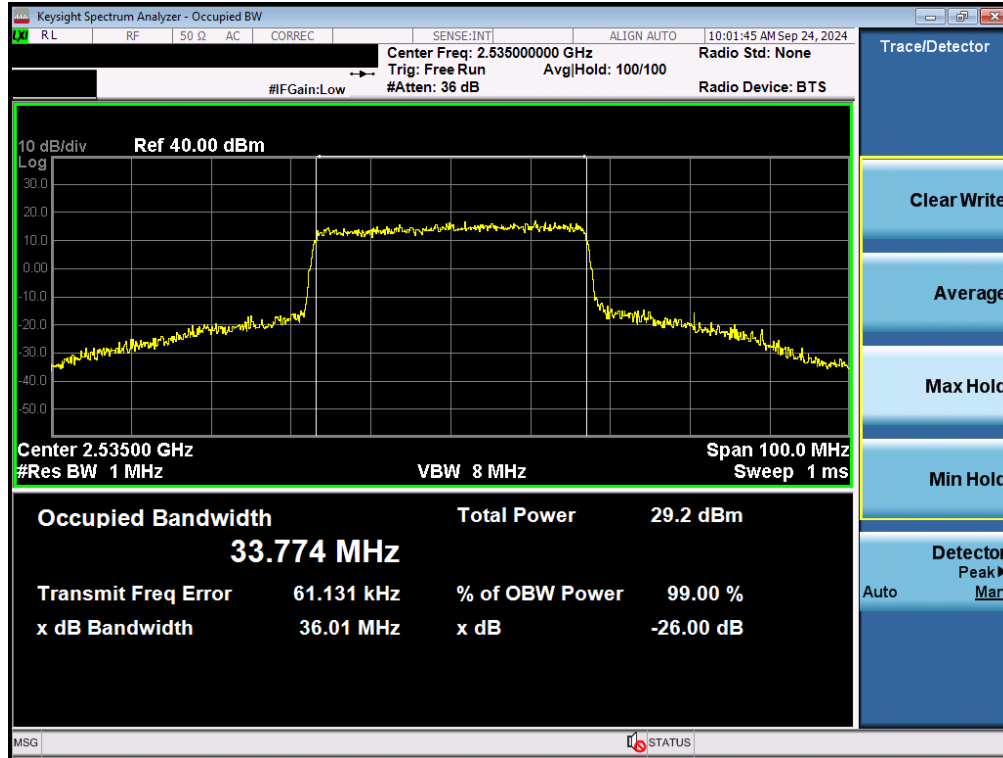


Plot 7-188. Occupied Bandwidth Plot (NR Band n7 - 35MHz $\pi/2$ BPSK - Full RB - Ant B)

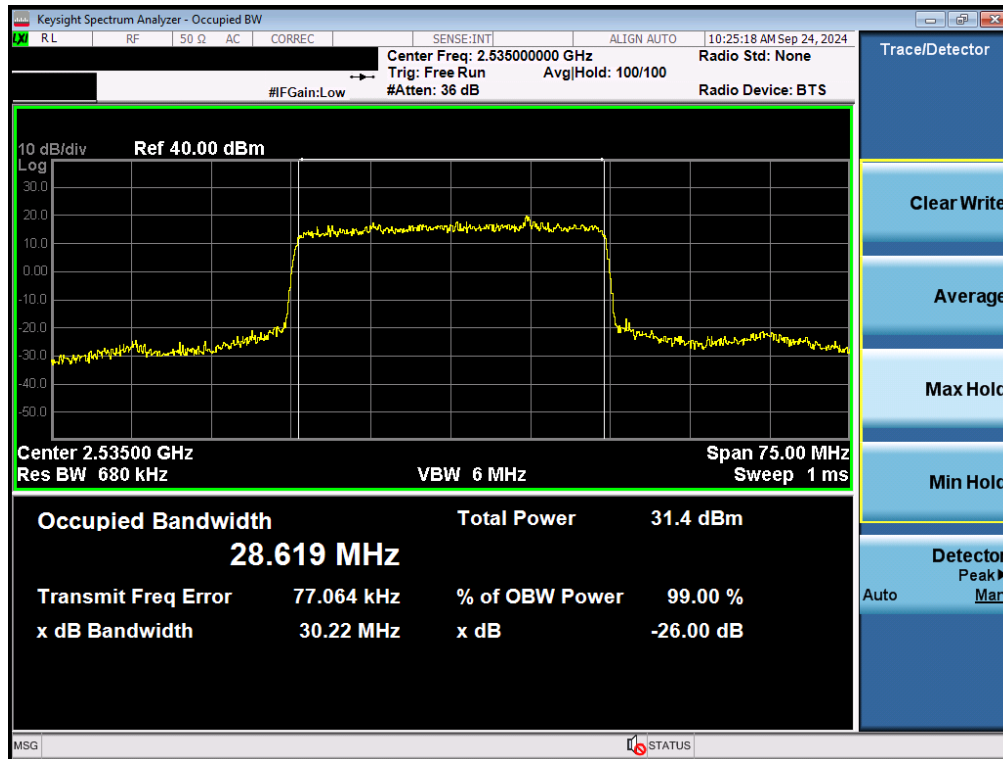


Plot 7-189. Occupied Bandwidth Plot (NR Band n7 - 35MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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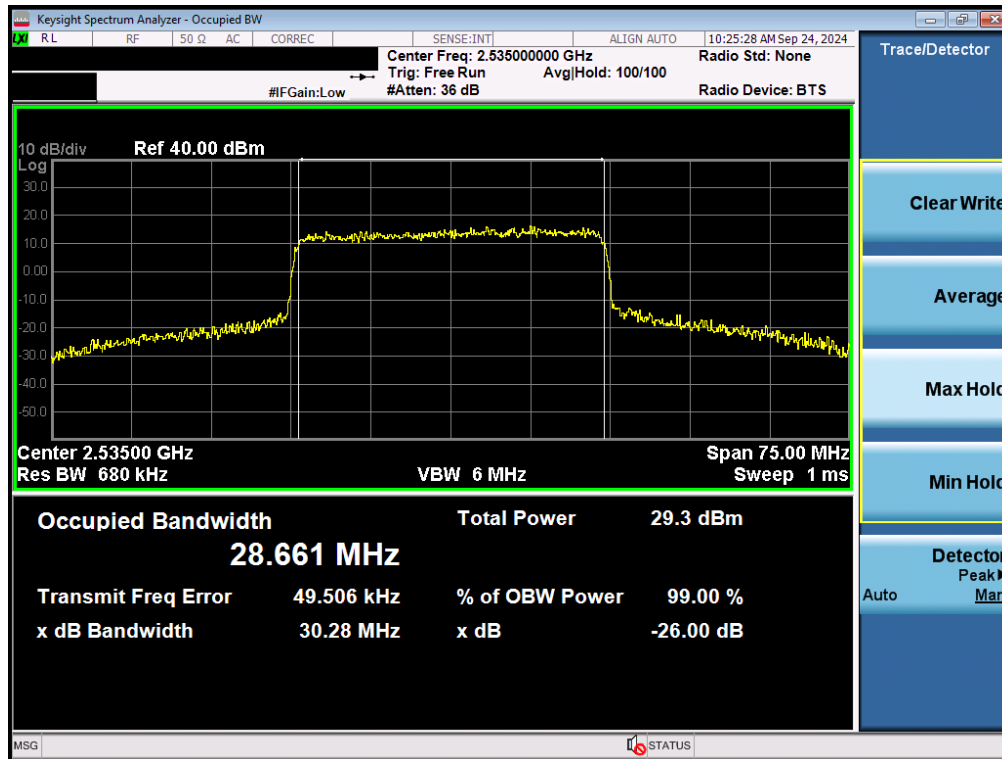


Plot 7-190. Occupied Bandwidth Plot (NR Band n7 - 35MHz 16-QAM - Full RB - Ant B)



Plot 7-191. Occupied Bandwidth Plot (NR Band n7 - 30MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 121 of 281

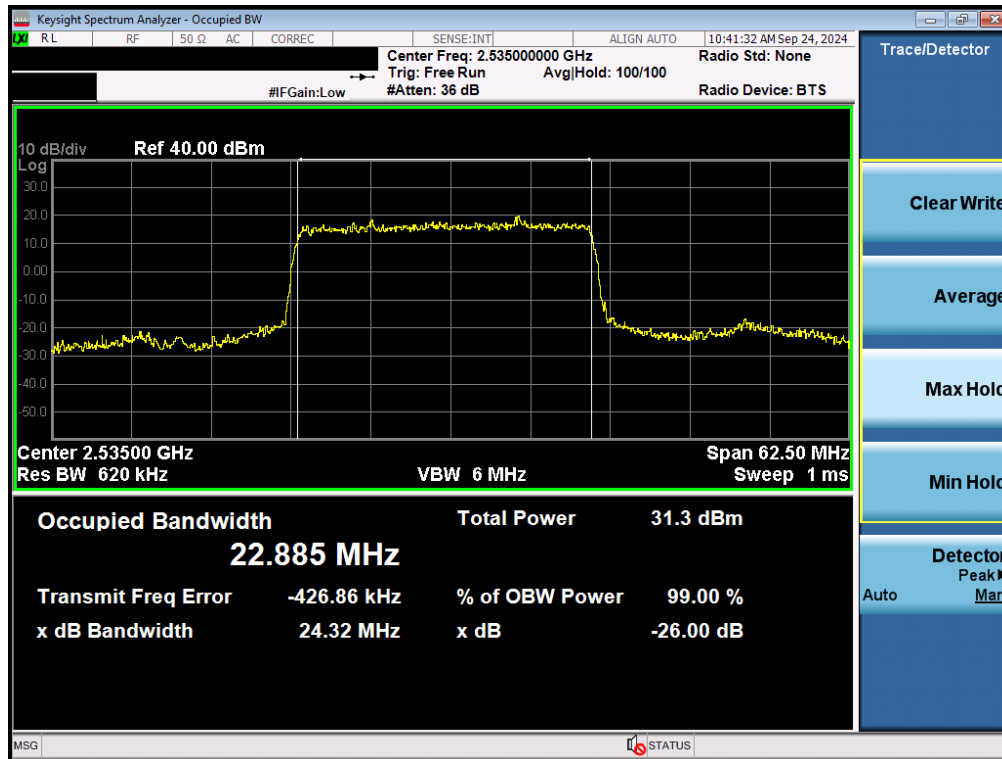


Plot 7-192. Occupied Bandwidth Plot (NR Band n7 - 30MHz QPSK - Full RB - Ant B)

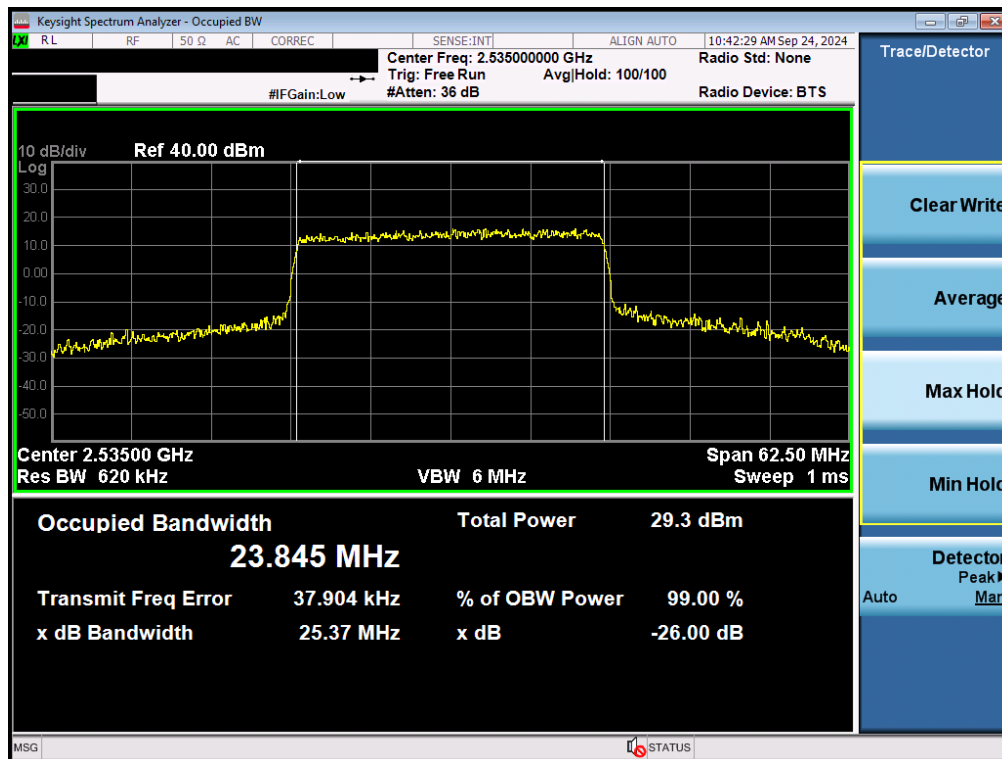


Plot 7-193. Occupied Bandwidth Plot (NR Band n7 - 30MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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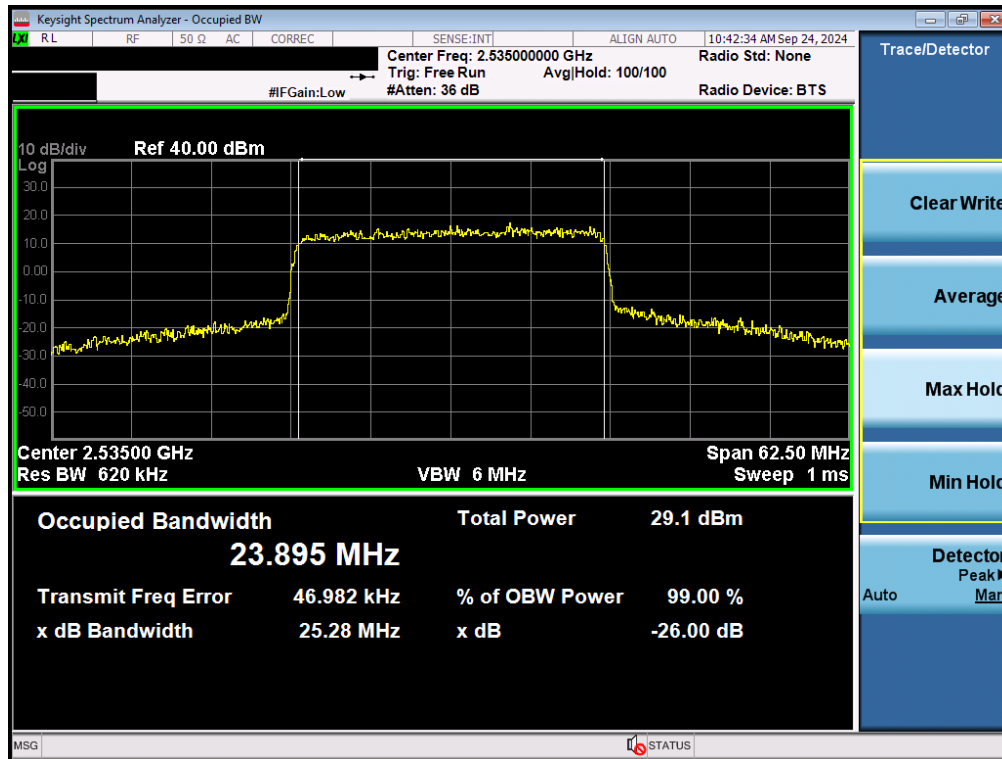


Plot 7-194. Occupied Bandwidth Plot (NR Band n7 - 25MHz $\pi/2$ BPSK - Full RB - Ant B)

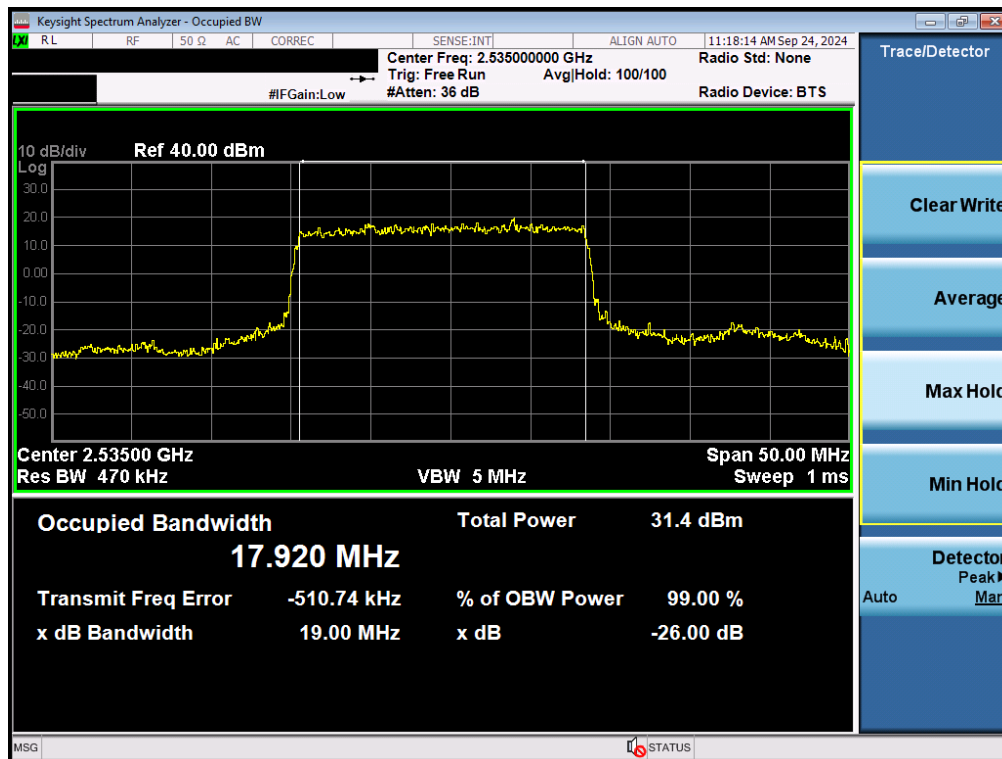


Plot 7-195. Occupied Bandwidth Plot (NR Band n7 - 25MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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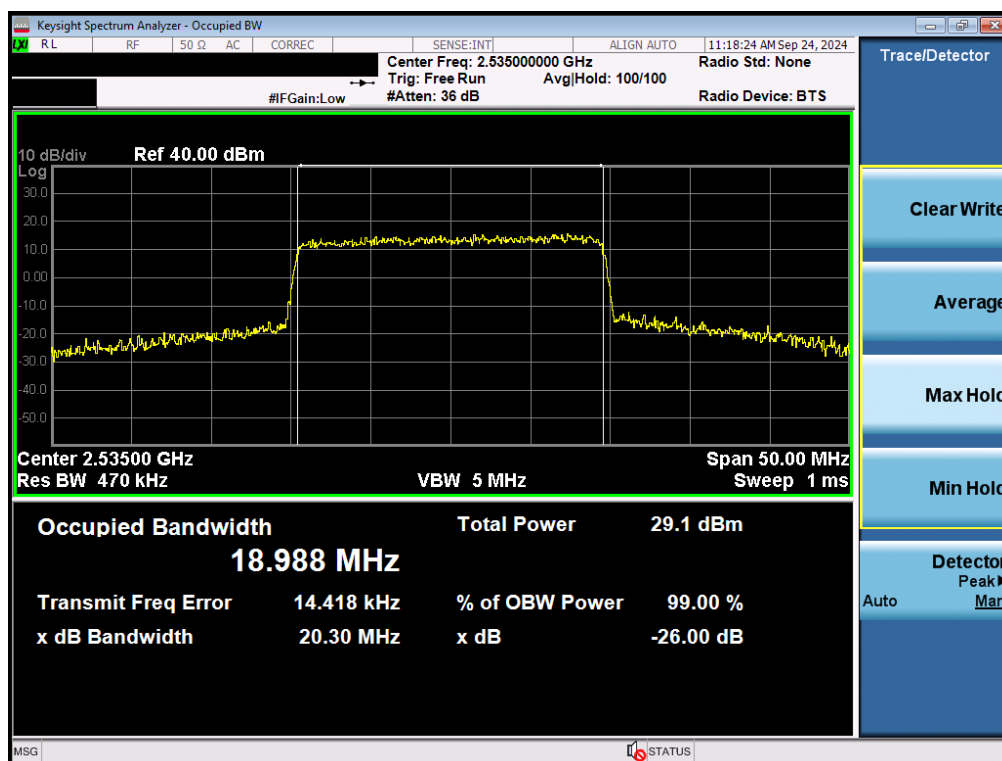


Plot 7-196. Occupied Bandwidth Plot (NR Band n7 - 25MHz 16-QAM - Full RB - Ant B)

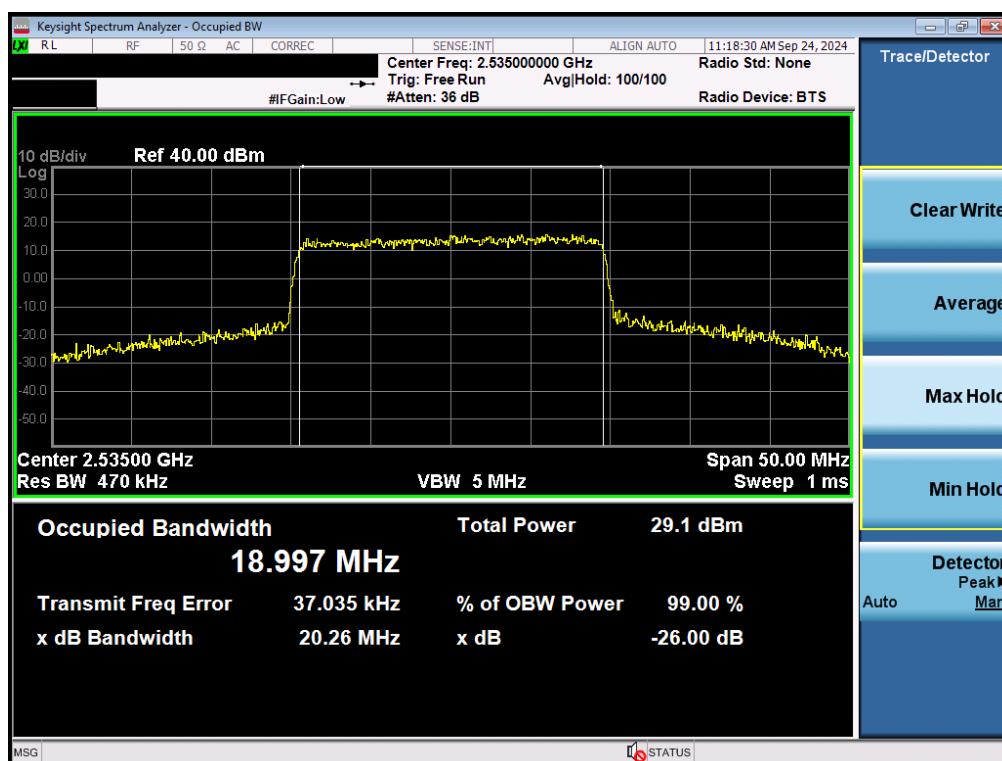


Plot 7-197. Occupied Bandwidth Plot (NR Band n7 - 20MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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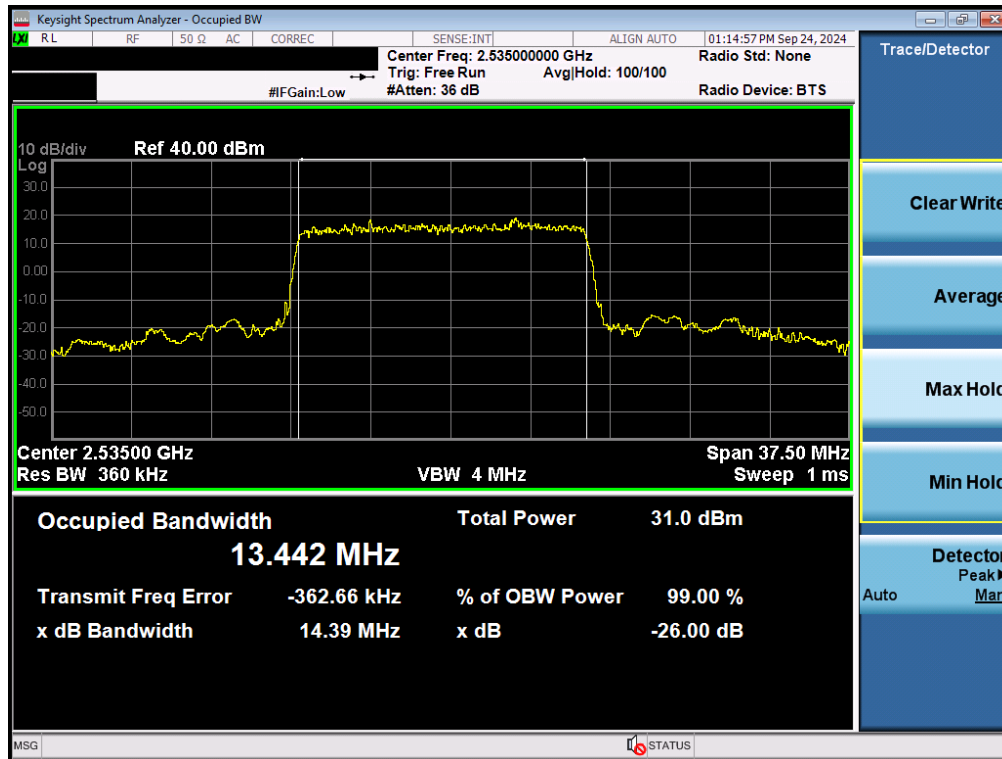


Plot 7-198. Occupied Bandwidth Plot (NR Band n7 - 20MHz QPSK - Full RB - Ant B)

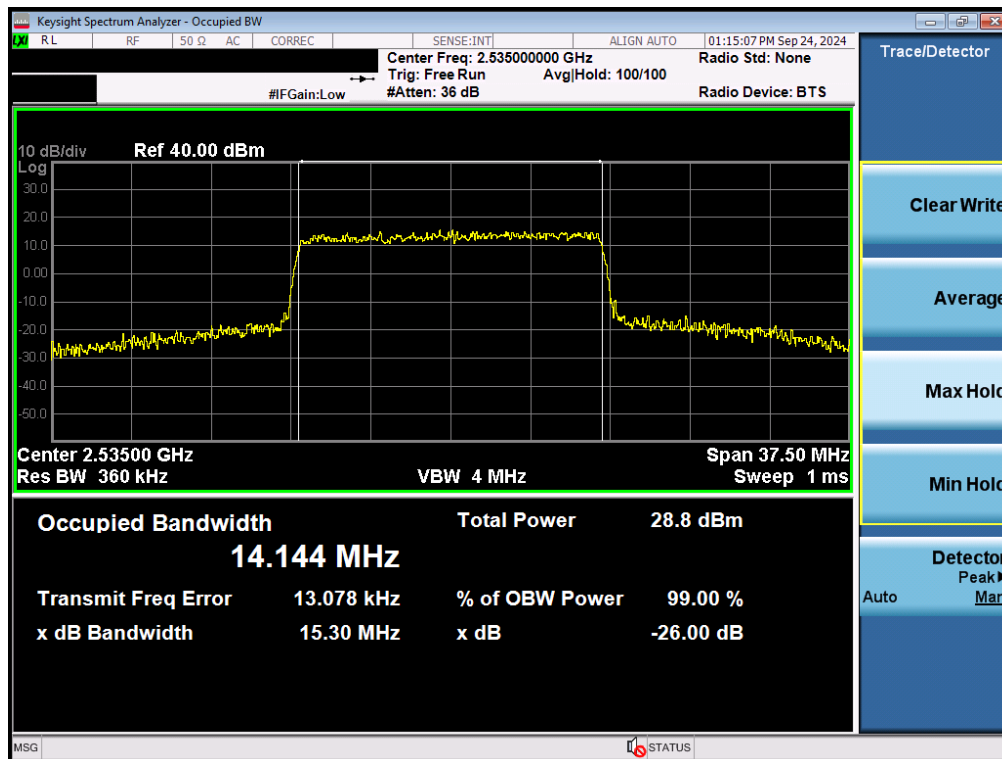


Plot 7-199. Occupied Bandwidth Plot (NR Band n7 - 20MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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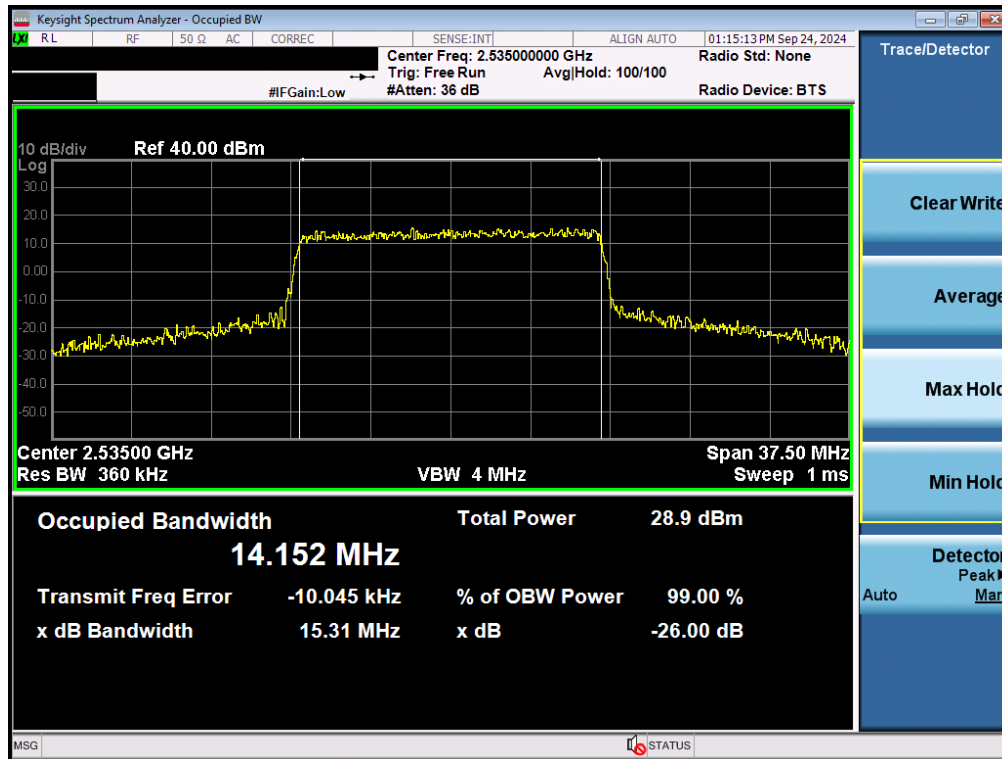


Plot 7-200. Occupied Bandwidth Plot (NR Band n7 - 15MHz $\pi/2$ BPSK - Full RB - Ant B)

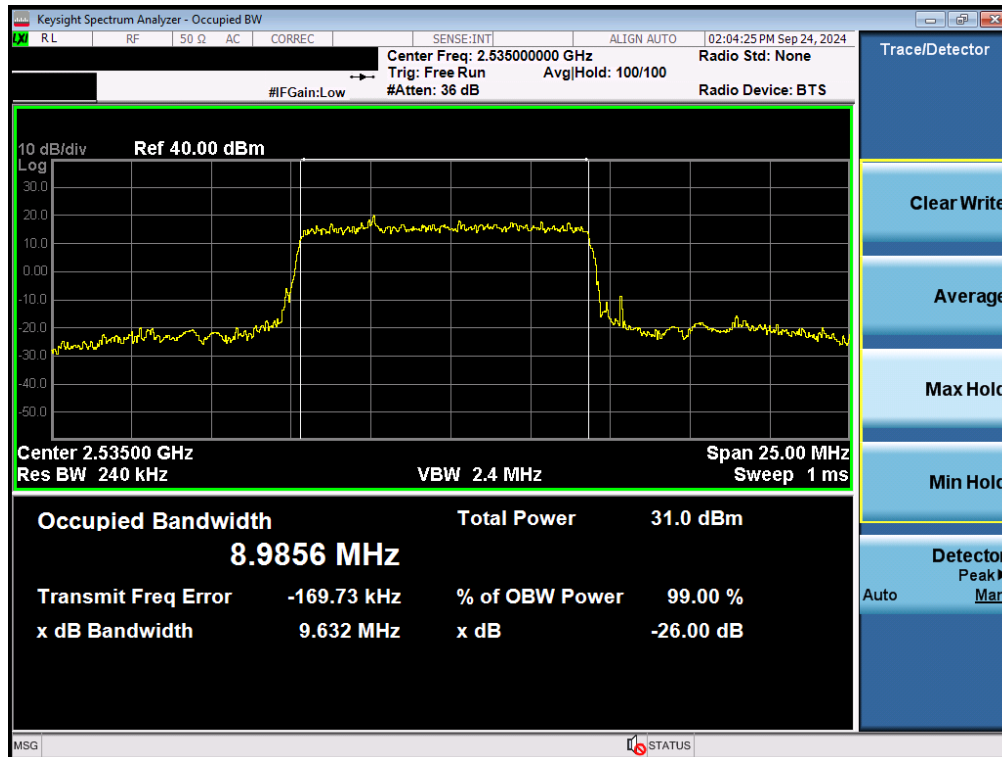


Plot 7-201. Occupied Bandwidth Plot (NR Band n7 - 15MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-202. Occupied Bandwidth Plot (NR Band n7 - 15MHz 16-QAM - Full RB - Ant B)

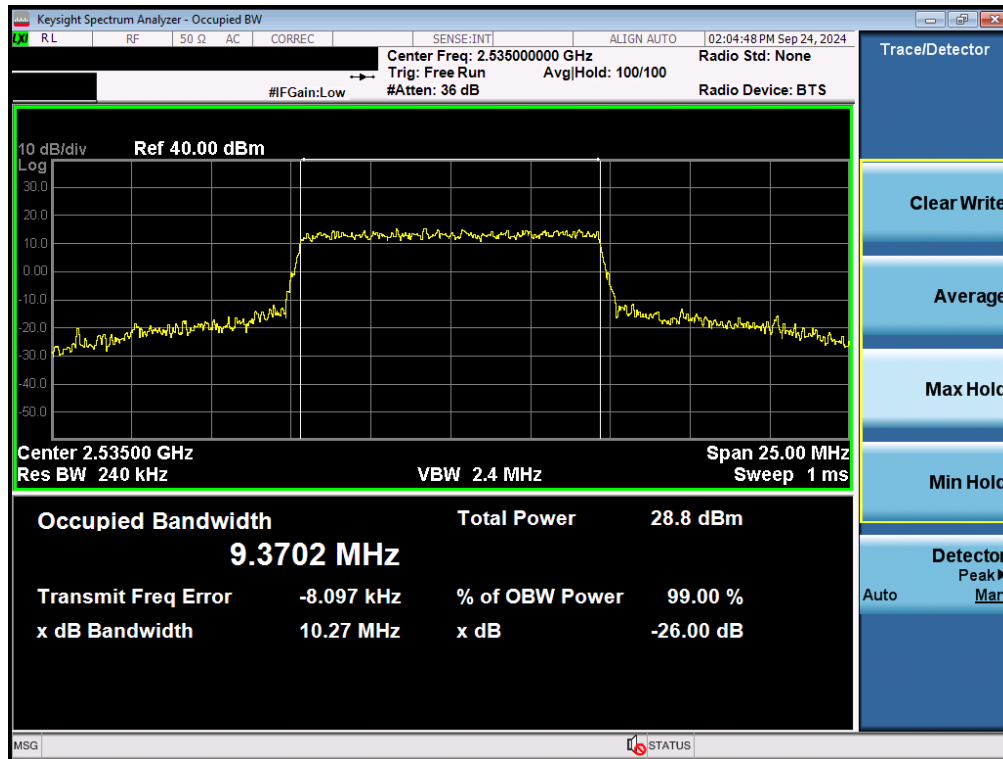


Plot 7-203. Occupied Bandwidth Plot (NR Band n7 - 10MHz $\pi/2$ BPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-204. Occupied Bandwidth Plot (NR Band n7 - 10MHz QPSK - Full RB - Ant B)

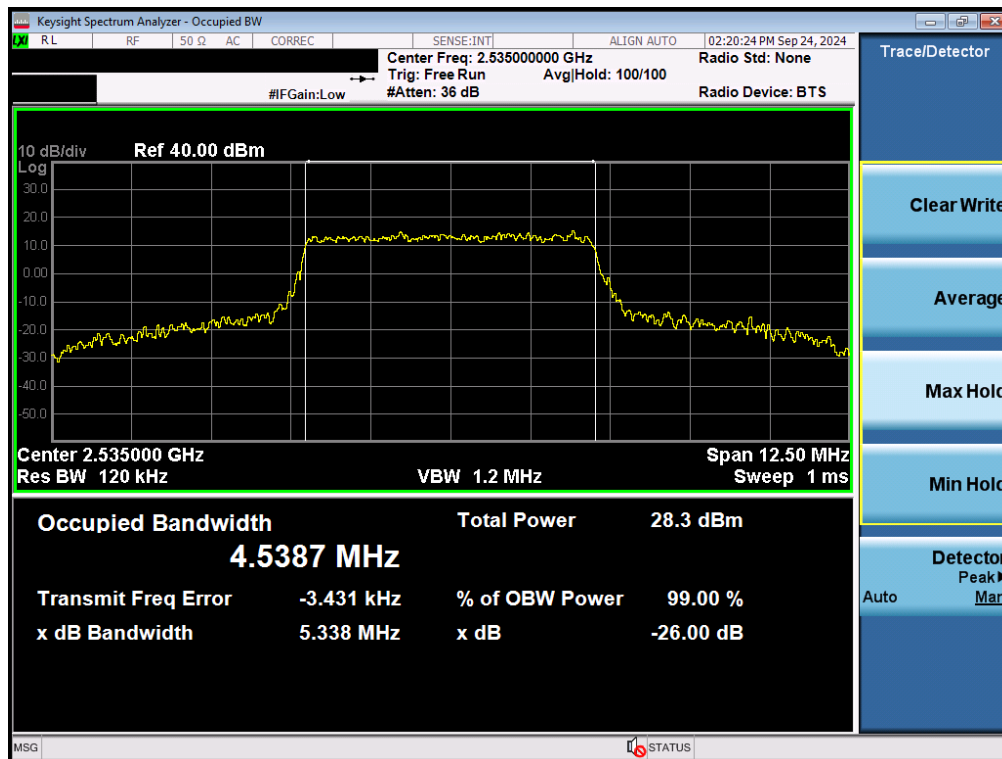


Plot 7-205. Occupied Bandwidth Plot (NR Band n7 - 10MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 128 of 281

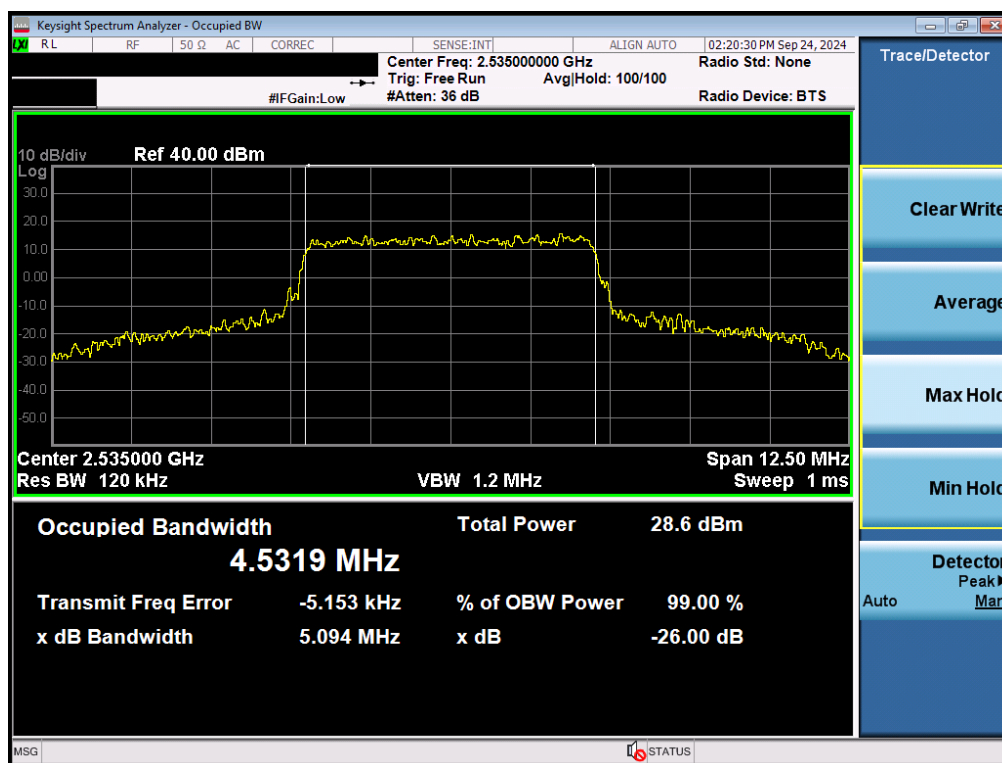


Plot 7-206. Occupied Bandwidth Plot (NR Band n7 - 5MHz $\pi/2$ BPSK - Full RB - Ant B)



Plot 7-207. Occupied Bandwidth Plot (NR Band n7 - 5MHz QPSK - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-208. Occupied Bandwidth Plot (NR Band n7 - 5MHz 16-QAM - Full RB - Ant B)

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	97.07
		QPSK	98.29
		16QAM	98.27

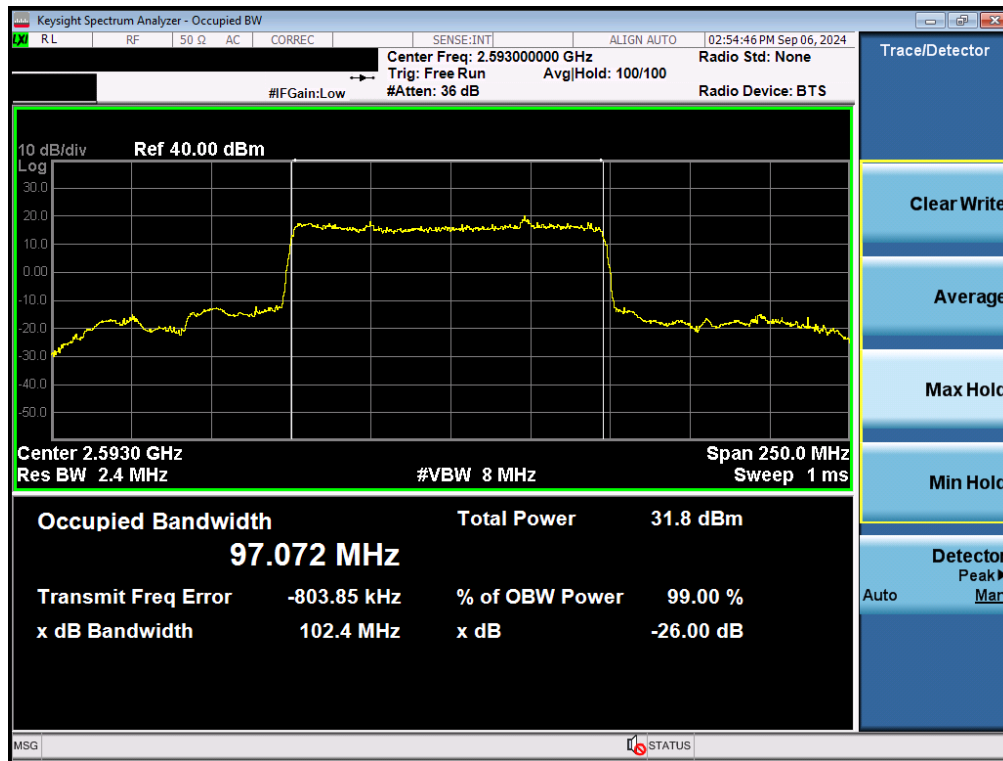
Table 7-10. Occupied Bandwidth Test Results – NR – Ant B – Default

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	96.79
		QPSK	97.75
		16QAM	97.72

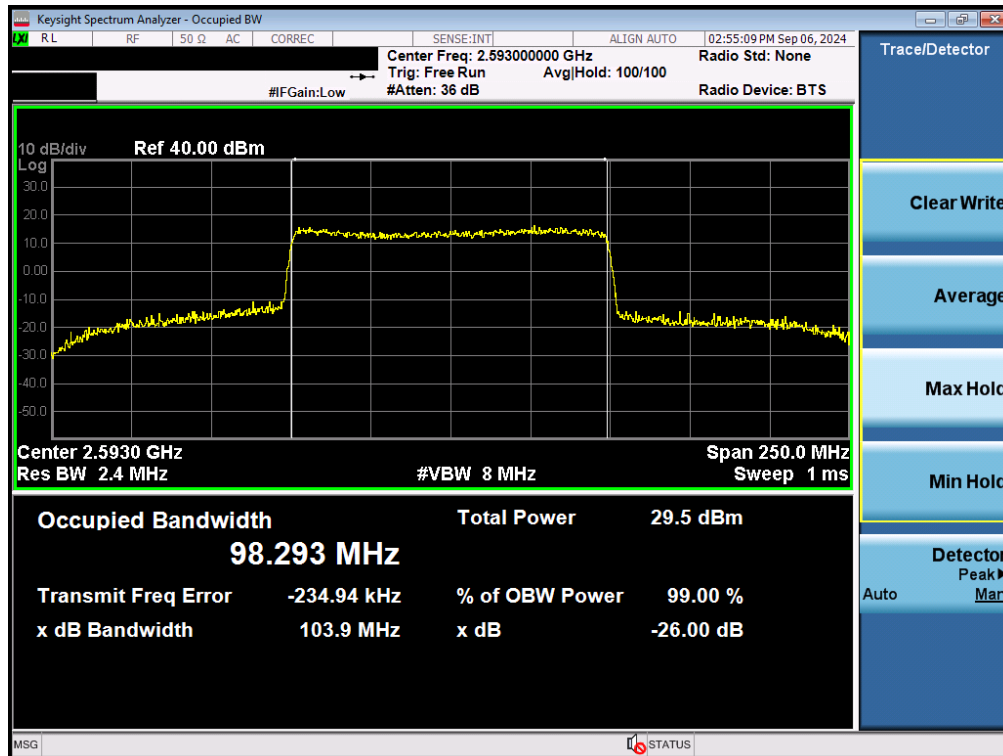
Table 7-11. Occupied Bandwidth Test Results – NR – Ant F – Switching

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant B – Default

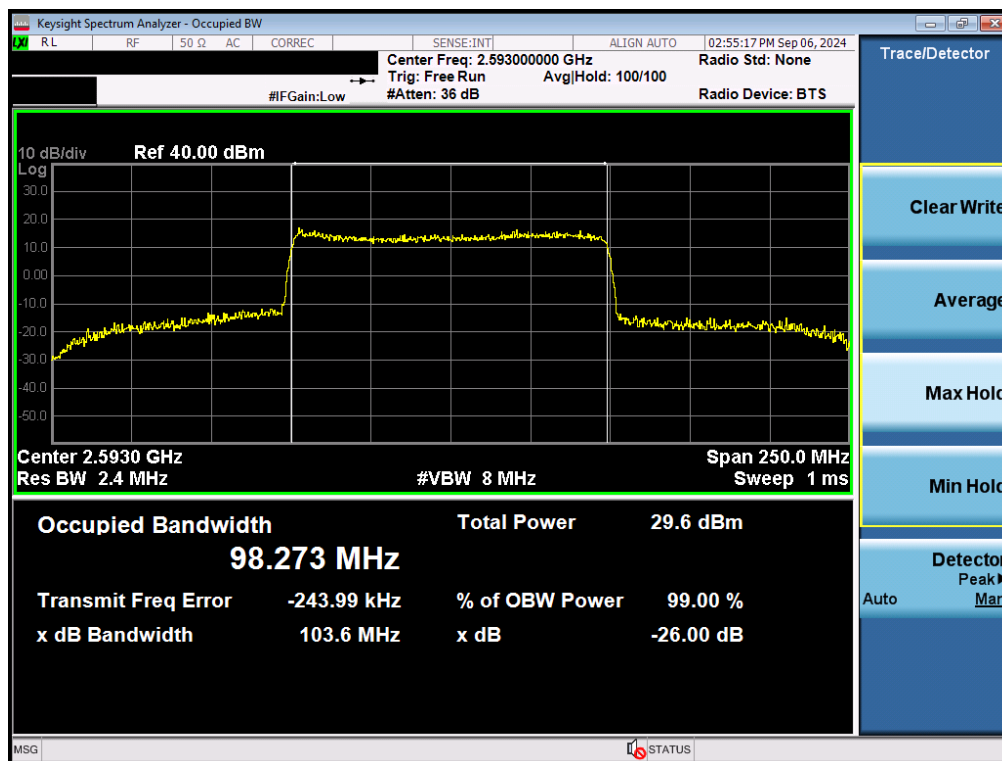


Plot 7-209. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant B)



Plot 7-210. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant B)

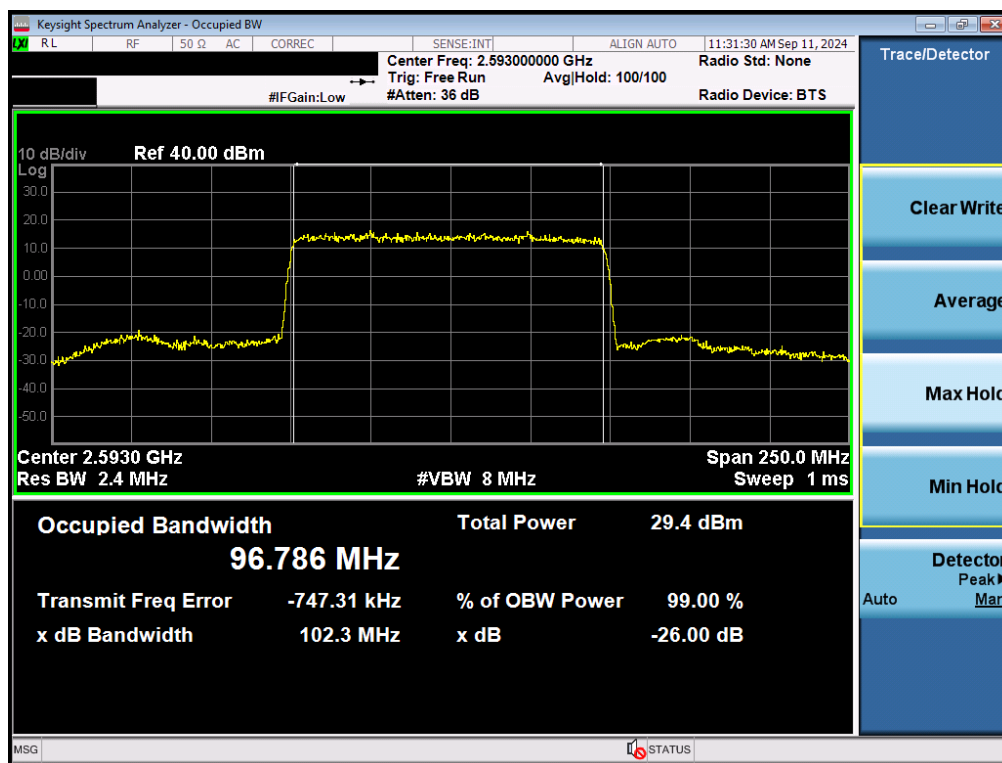
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 131 of 281



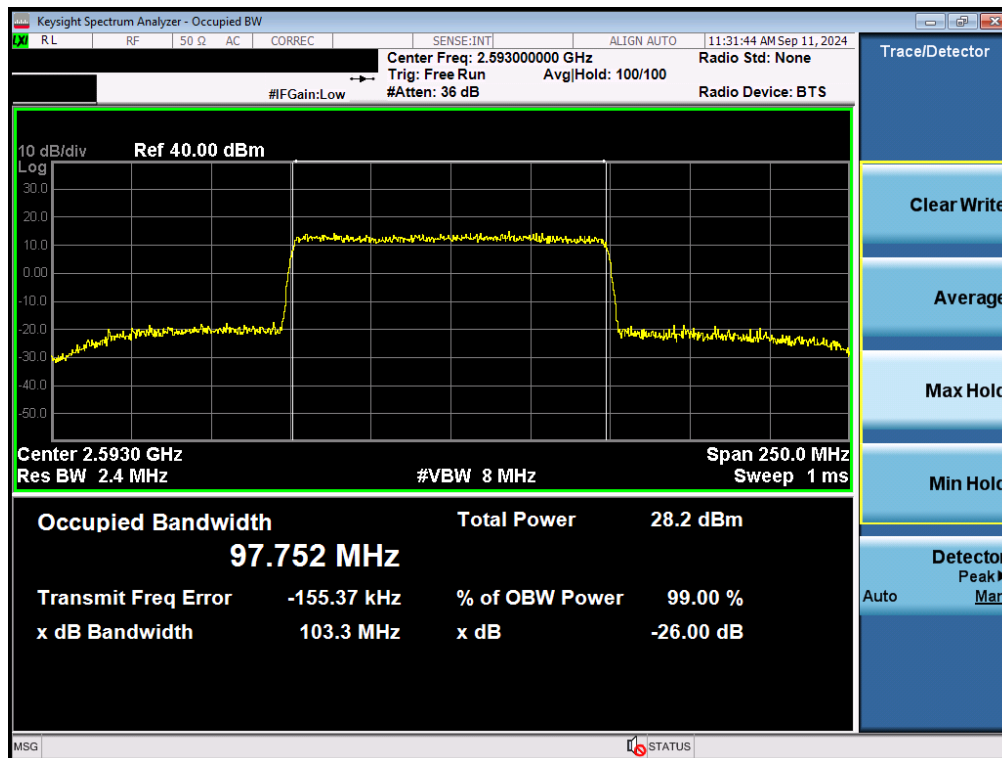
Plot 7-211. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant B)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant F – Switching

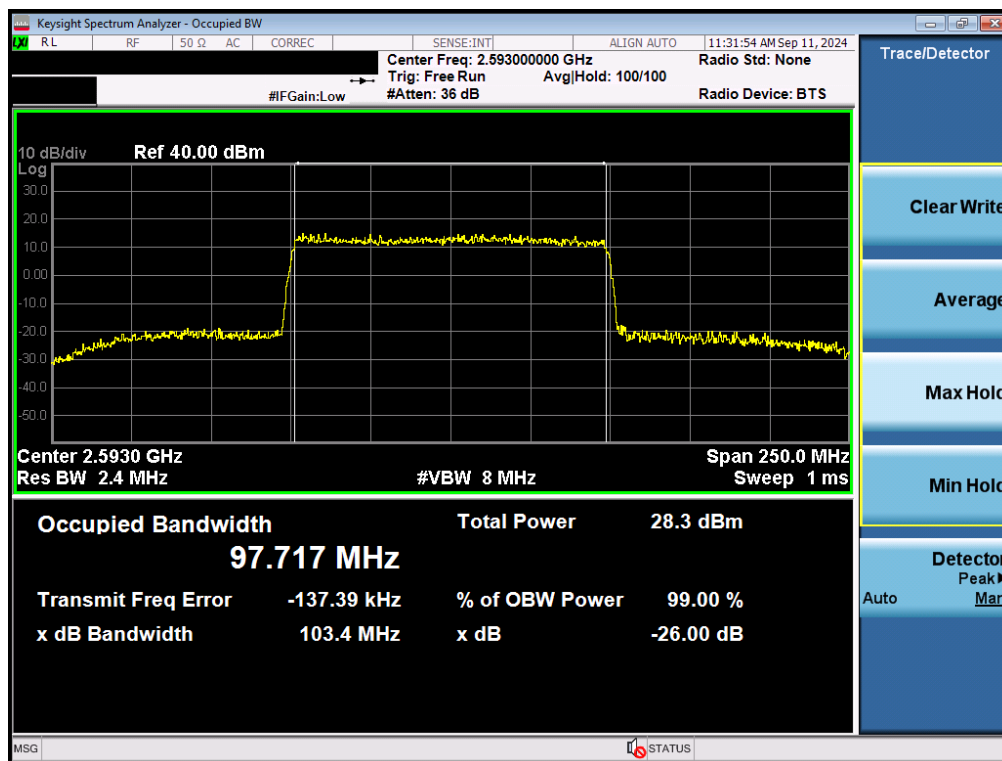


Plot 7-212. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant F)



Plot 7-213. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant F)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-214. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant F)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	96.94
		QPSK	98.11
		16QAM	98.04

Table 7-12. Occupied Bandwidth Test Results – NR – Ant E – Default

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	96.64
		QPSK	97.81
		16QAM	97.79

Table 7-13. Occupied Bandwidth Test Results – NR – Ant D – Switching

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	97.09
		QPSK	98.07
		16QAM	98.35

Table 7-14. Occupied Bandwidth Test Results – NR – Ant D – Default

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n41PC2	100MHz	$\pi/2$ BPSK	96.86
		QPSK	97.80
		16QAM	97.91

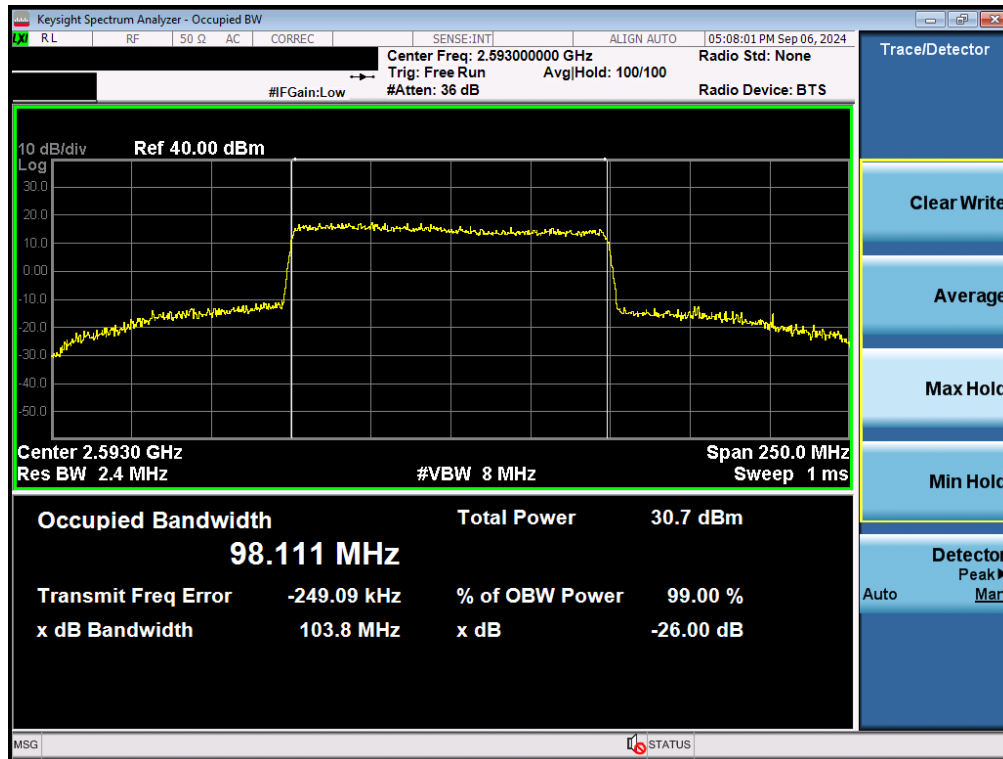
Table 7-15. Occupied Bandwidth Test Results – NR – Ant E – Switching

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant E – Default



Plot 7-215. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant E)



Plot 7-216. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant E)

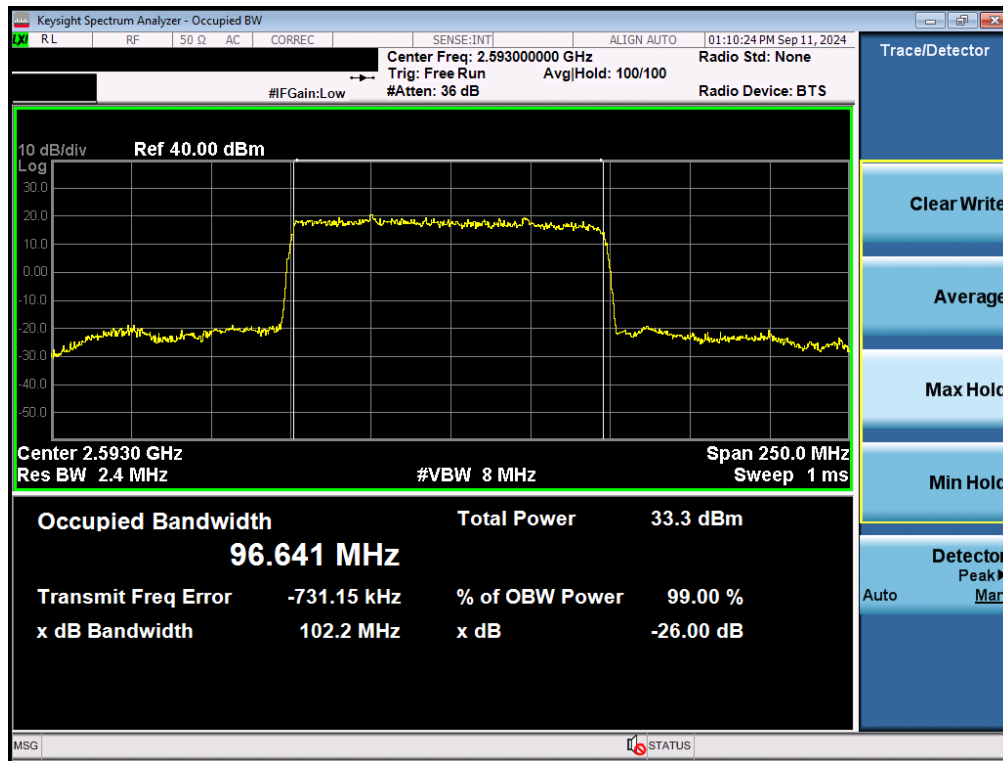
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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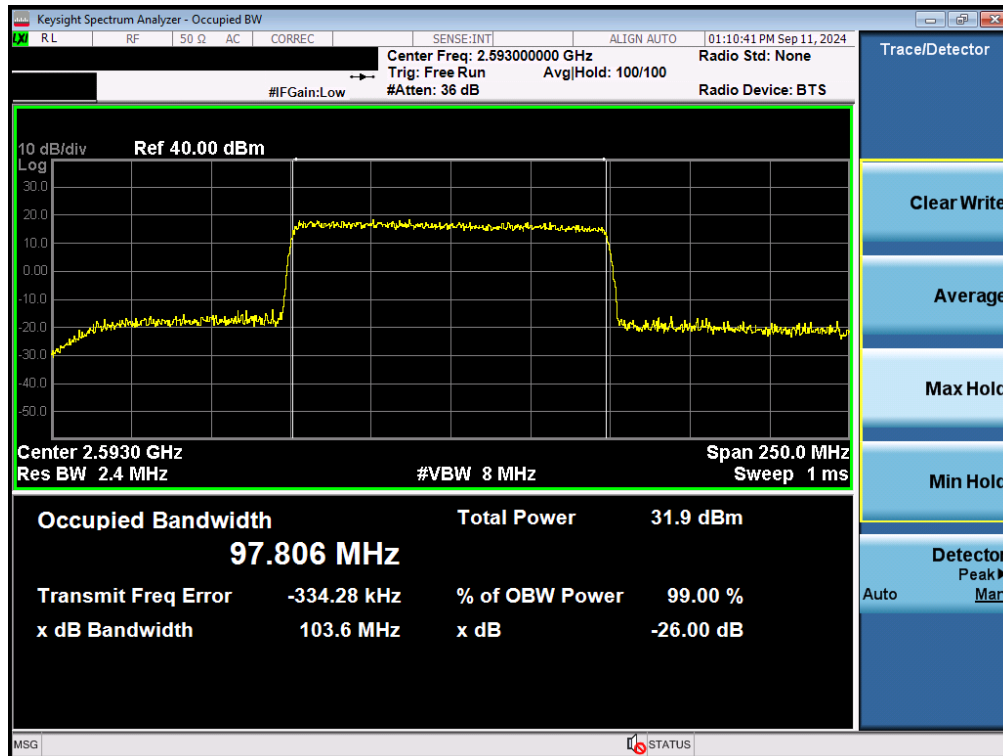
Plot 7-217. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant E)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant D – Switching

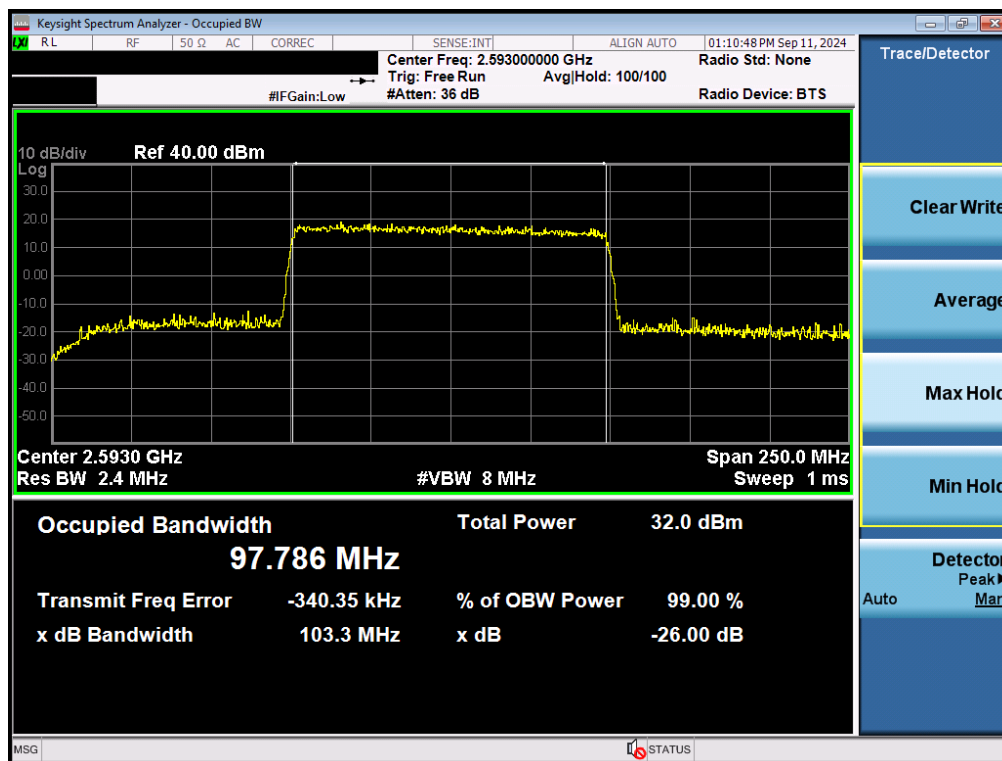


Plot 7-218. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant D)



Plot 7-219. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant D)

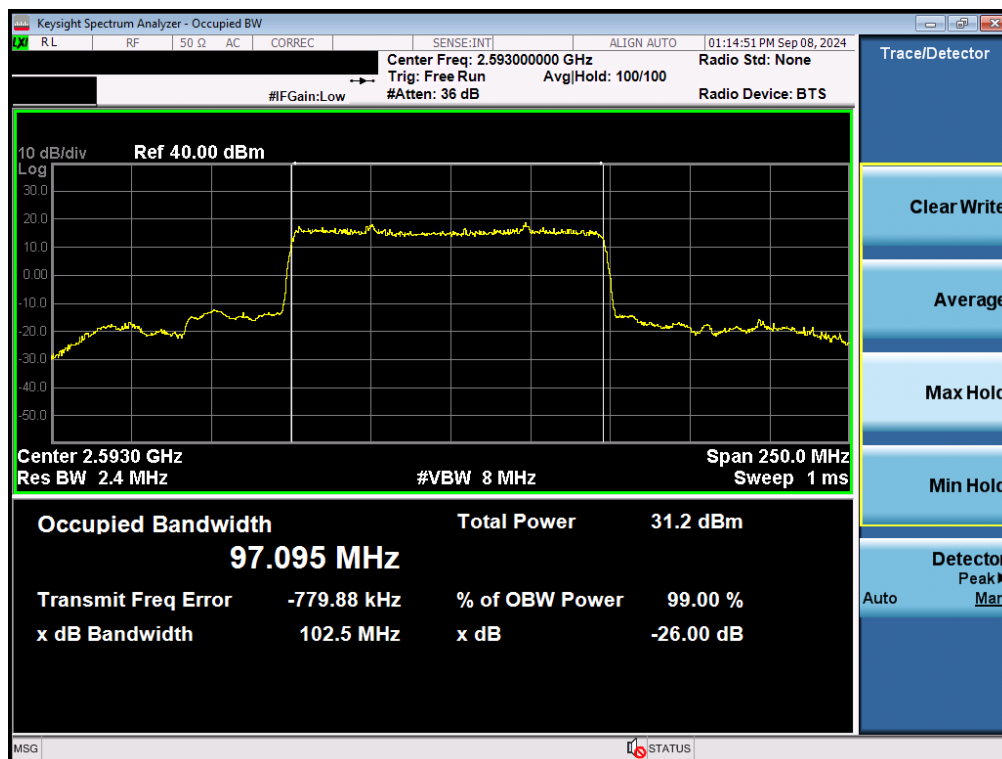
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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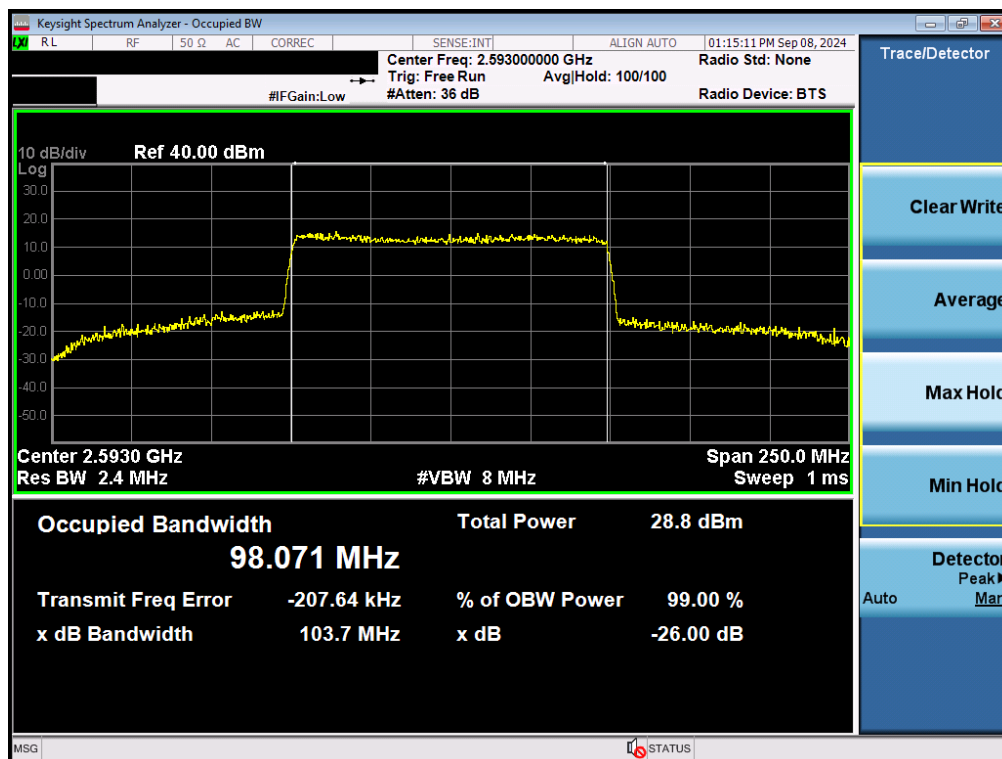
Plot 7-220. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant D)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant D – Default

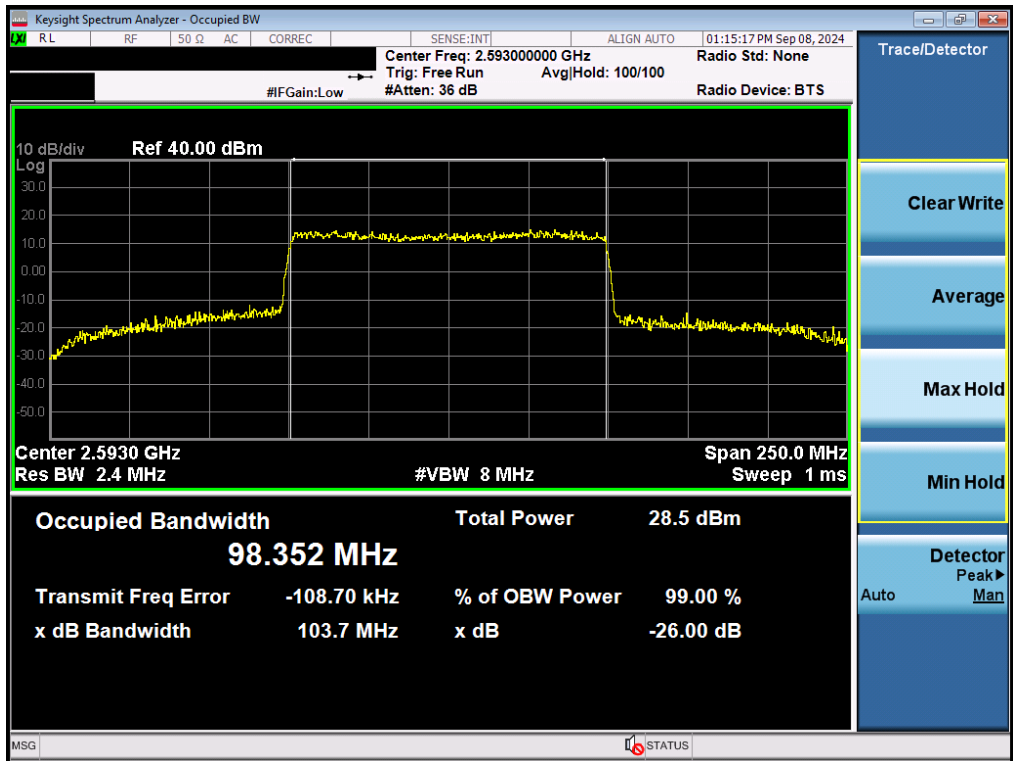


Plot 7-221. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant D)



Plot 7-222. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant D)

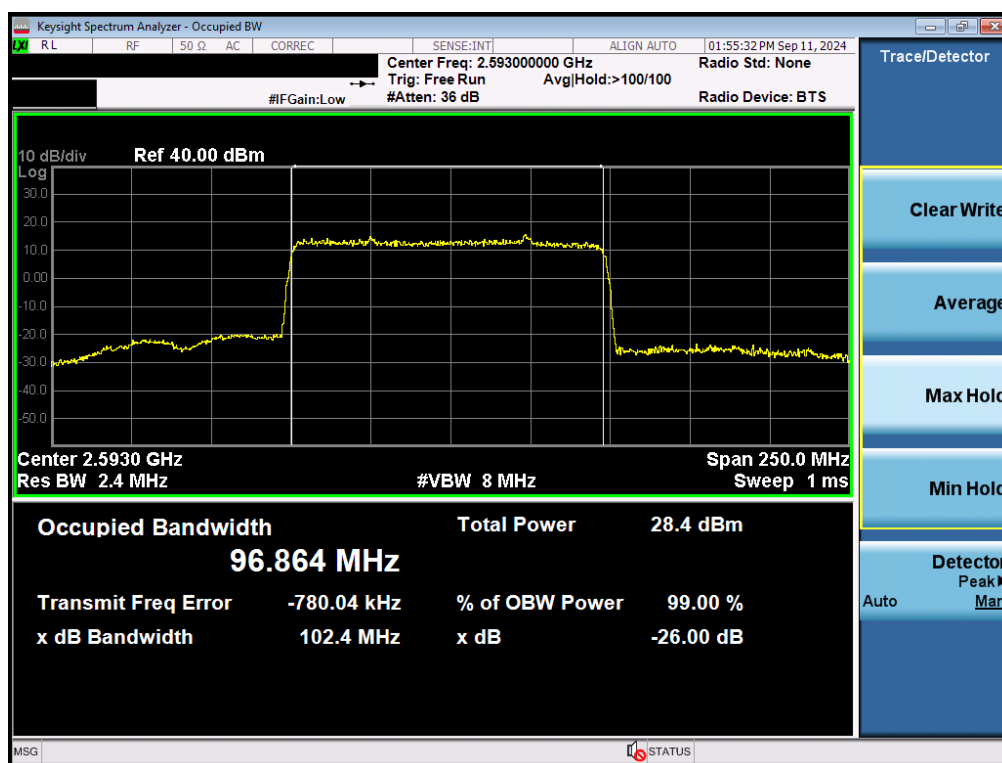
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-04-R1.A3L	Test Dates: 09/03/2024 - 10/22/2024	EUT Type: Portable Handset	Page 140 of 281



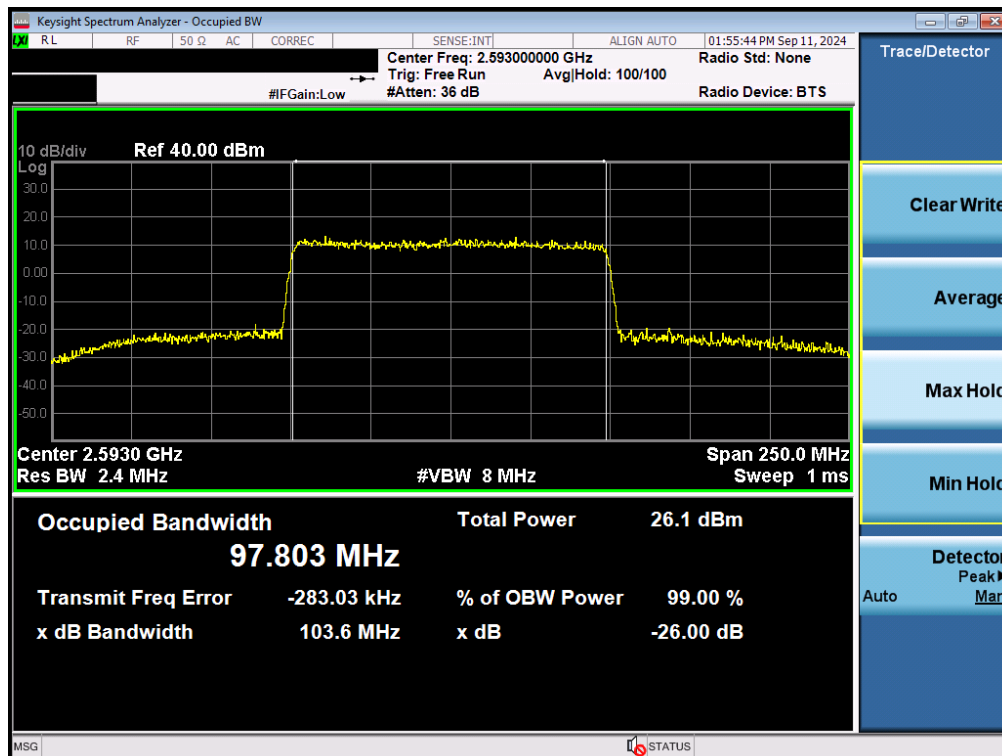
Plot 7-223. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant D)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41(PC2) – Ant E – Switching

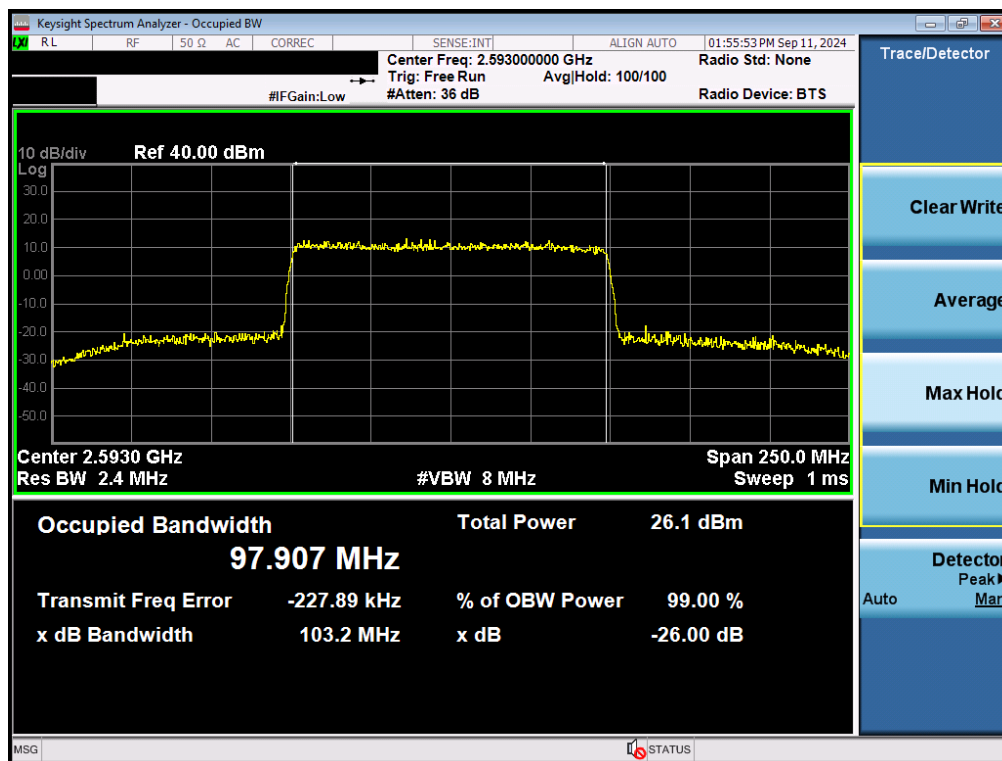


Plot 7-224. Occupied Bandwidth Plot (NR Band n41 - 100MHz $\pi/2$ BPSK - Full RB - Ant E)



Plot 7-225. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant E)

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Plot 7-226. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant E)

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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 $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

For Band 30, the minimum permissible attenuation level of any spurious emission <2288MHz and >2365MHz is $70 + 10 \log_{10}(P_{[Watts]})$.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.

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 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

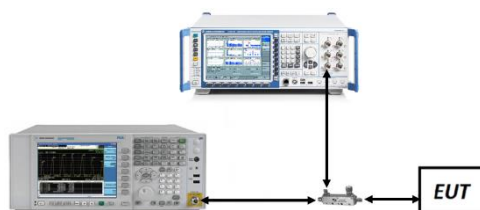


Figure 7-3. Test Instrument & Measurement Setup

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Test Notes

1. Per Part 27, RSS-195 and RSS-199, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
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.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding $10\log(2) = 3\text{dB}$ to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B30	10MHz	Mid	30.0 - 2288.0	-47.63	-40	-7.63
		Mid	2365.0 - 15000.0	-51.56	-40	-11.56
		Mid	15000.0 - 27000.0	-56.88	-40	-16.88

Table 7-16. Conducted Emission Test Results – LTE – Ant A

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B7	20MHz	Low	30.0 - 2475.0	-46.53	-25	-21.54
		Low	2570.0 - 15000.0	-36.75	-25	-11.75
		Low	15000.0 - 27000.0	-46.45	-25	-21.45
		Mid	30.0 - 2500.0	-46.67	-25	-21.67
		Mid	2570.0 - 15000.0	-37.46	-25	-12.46
		Mid	15000.0 - 27000.0	-47.01	-25	-22.01
		High	30.0 - 2500.0	-46.36	-25	-21.36
		High	2570.0 - 15000.0	-35.97	-25	-10.97
		High	15000.0 - 27000.0	-45.81	-25	-20.81
LTE-B7 ULCA	20+20MHz	Low	30.0 - 2475.0	-46.53	-25	-21.53
		Low	2570.0 - 15000.0	-39.80	-25	-14.80
		Low	15000.0 - 27000.0	-52.55	-25	-27.55
		Mid	30.0 - 2500.0	-44.30	-25	-19.30
		Mid	2570.0 - 15000.0	-40.14	-25	-15.14
		Mid	15000.0 - 27000.0	-52.53	-25	-27.53
		High	30.0 - 2500.0	-43.46	-25	-18.46
		High	2595.0 - 15000.0	-40.03	-25	-15.03
		High	15000.0 - 27000.0	-51.80	-25	-26.80
LTE-B41PC3-38	20MHz	Low	30.0 - 2288.0	-42.13	-25	-17.13
		Low	2365.0 - 15000.0	-43.21	-25	-18.21
		Low	15000.0 - 27000.0	-46.05	-25	-21.05
		Mid	30.0 - 2288.0	-42.95	-25	-17.95
		Mid	2570.0 - 15000.0	-43.83	-25	-18.83
		Mid	15000.0 - 27000.0	-46.56	-25	-21.56
		High	30.0 - 2288.0	-43.06	-25	-18.06
		High	2570.0 - 15000.0	-44.17	-25	-19.17
		High	15000.0 - 27000.0	-46.43	-25	-21.43

Table 7-17. Conducted Emission Test Results – LTE – Ant B

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