



Plot 7-117. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



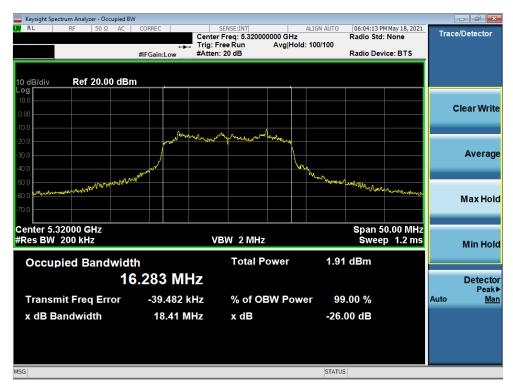
Plot 7-118. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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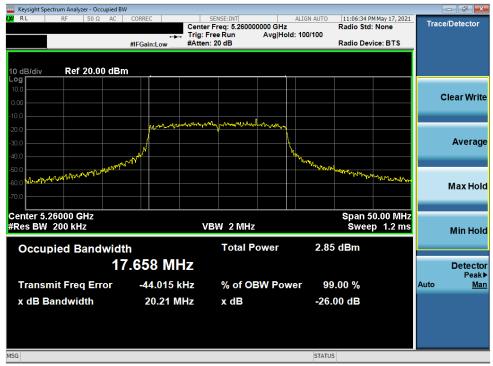
Plot 7-119. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



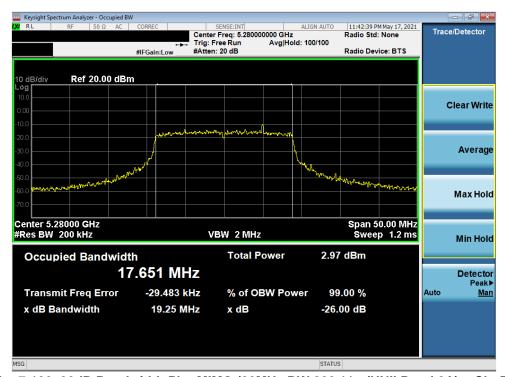
Plot 7-120. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-121. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



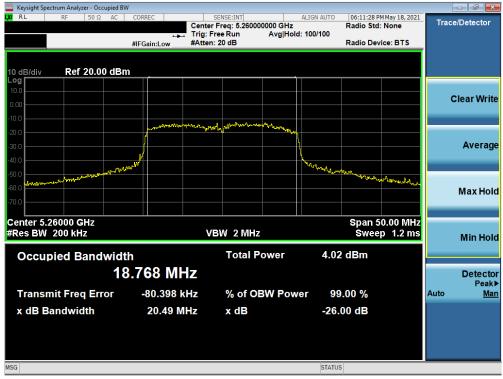
Plot 7-122. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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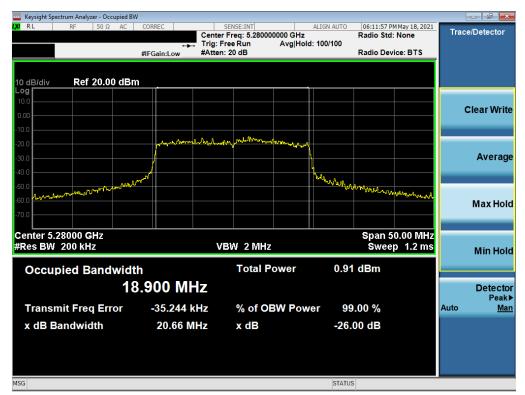
Plot 7-123. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



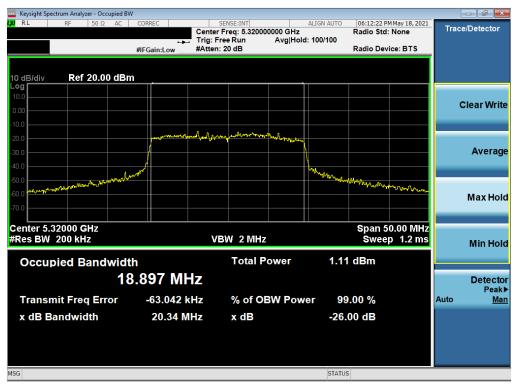
Plot 7-124. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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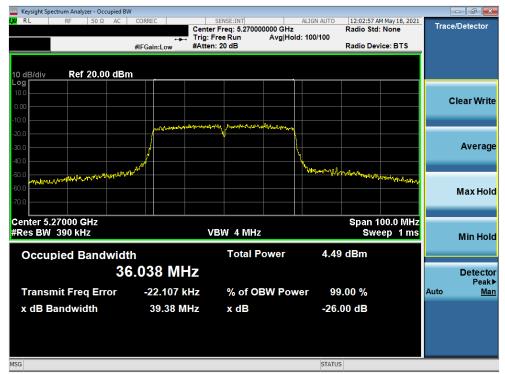
Plot 7-125. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



Plot 7-126. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-127. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-128. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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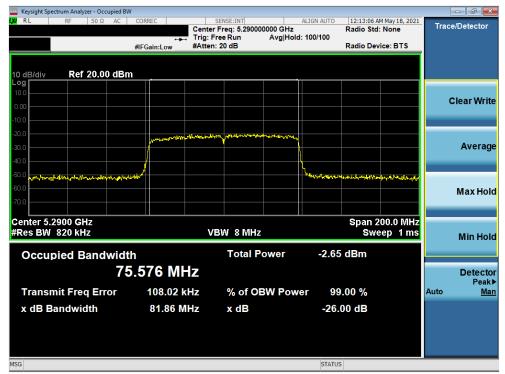
Plot 7-129. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



Plot 7-130. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-131. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



Plot 7-132. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-133. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



Plot 7-134. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-135. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



Plot 7-136. 26dB Bandwidth Plot MIMO (20MHz 802.11n BW (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-137. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



Plot 7-138. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-139. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



Plot 7-140. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-141. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



Plot 7-142. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-143. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



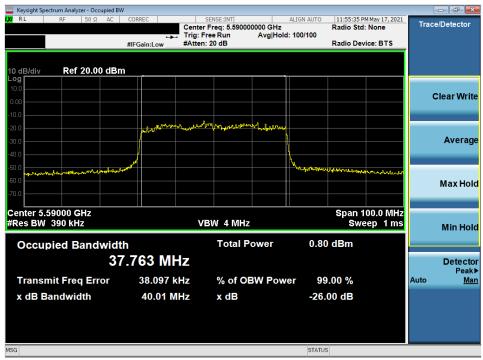
Plot 7-144. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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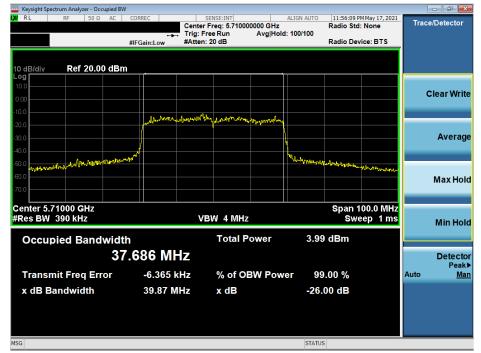
Plot 7-145. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



Plot 7-146. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-147. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



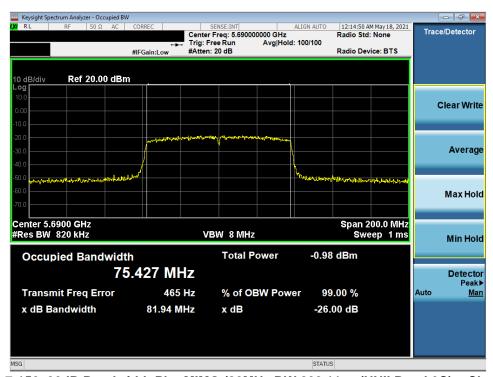
Plot 7-148. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-149. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



Plot 7-150. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-151. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-152. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-153. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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MIMO 26 dB Bandwidth Measurements-Q

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 26dB Bandwidth - Q [MHz]
	5180	36	а	6	19.71
	5200	40	а	6	21.76
	5240	48	а	6	26.95
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	20.90
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	20.03
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	19.43
1	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	23.63
Band '	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	24.22
В	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	25.13
	5190	38	n (40MHz)	13.5/15 (MCS0)	38.73
	5230	46	n (40MHz)	13.5/15 (MCS0)	47.04
	5190	38	ax (40MHz)	13.5/15 (MCS0)	40.03
	5230	46	ax (40MHz)	13.5/15 (MCS0)	49.15
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	79.82
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	81.50
	5260	52	а	6	22.62
	5280	56	а	6	22.35
	5320	64	а	6	21.16
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	20.28
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	22.03
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	19.23
2A	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	24.10
Band 2A	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	22.38
B	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	21.10
	5270	54	n (40MHz)	13.5/15 (MCS0)	38.73
	5310	62	n (40MHz)	13.5/15 (MCS0)	38.84
	5270	54	ax (40MHz)	13.5/15 (MCS0)	40.80
	5310	62	ax (40MHz)	13.5/15 (MCS0)	41.01
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	80.07
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	81.42
	5500	100	а	6	18.54
	5600	120	а	6	20.69
	5720	144	а	6	21.00
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	19.60
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	19.31
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	19.22
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	21.17
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	20.47
()	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	20.76
Band 2C	5510	102	n (40MHz)	13.5/15 (MCS0)	38.59
anc	5590	118	n (40MHz)	13.5/15 (MCS0)	38.85
В	5710	142	n (40MHz)	13.5/15 (MCS0)	39.17
	5510	102	ax (40MHz)	13.5/15 (MCS0)	39.97
	5590	118	ax (40MHz)	13.5/15 (MCS0)	40.20
	5710	142	ax (40MHz)	13.5/15 (MCS0)	39.71
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	80.16
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	80.45
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	80.47
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	82.67
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	82.01
	5690 ablo 7-5	138	ax (80MHz)	29.3/32.5 (MCS0)	81.14

Table 7-5. Conducted Bandwidth Measurements MIMO

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Plot 7-154. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 1) - Ch. 36)



Plot 7-155. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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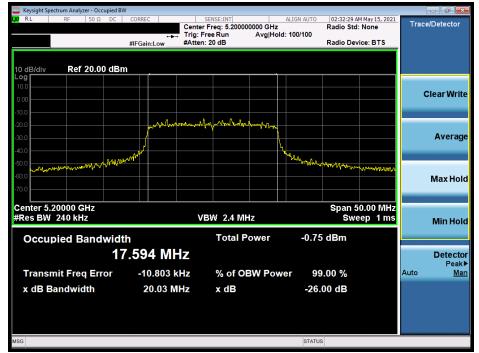
Plot 7-156. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 1) - Ch. 48)



Plot 7-157. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 1) - Ch. 36)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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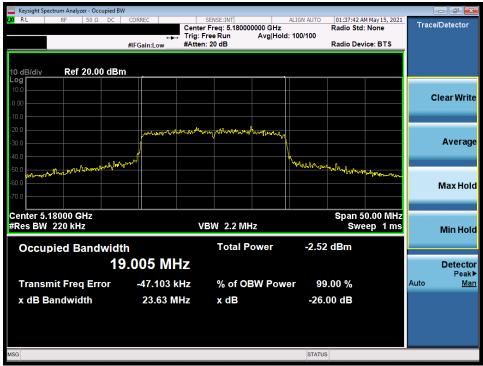
Plot 7-158. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 1) - Ch. 40)



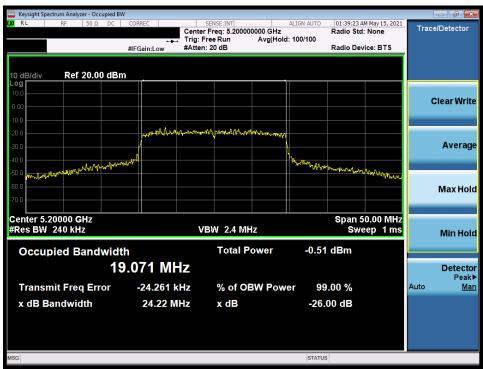
Plot 7-159. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 1) - Ch. 48)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-160. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 1) - Ch. 36)



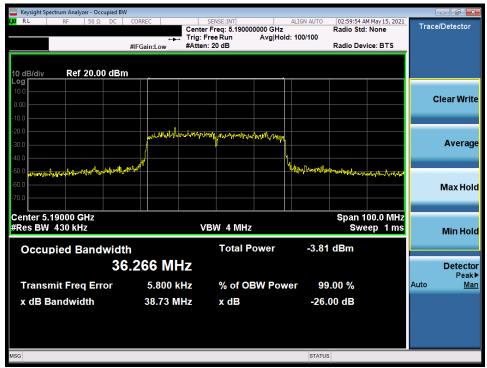
Plot 7-161. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-162. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 1) - Ch. 48)



Plot 7-163. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-164. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 1) - Ch. 46)



Plot 7-165. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-166. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 1) - Ch. 46)



Plot 7-167. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-168. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 1) - Ch. 42)



Plot 7-169. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 52)

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Plot 7-170. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 56)



Plot 7-171. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2A) - Ch. 64)

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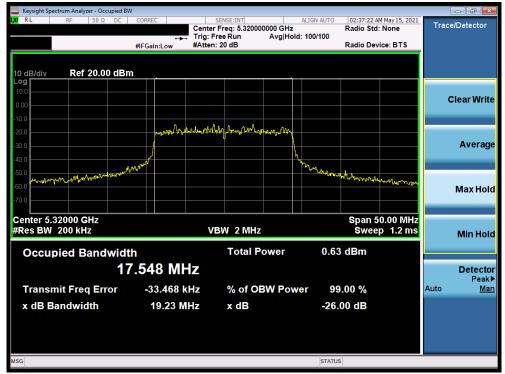
Plot 7-172. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 52)



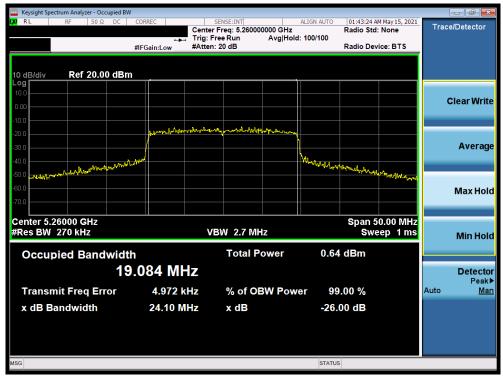
Plot 7-173. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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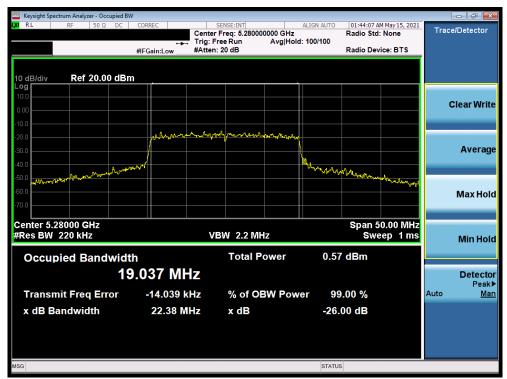
Plot 7-174. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2A) - Ch. 64)



Plot 7-175. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 52)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-176. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 56)



Plot 7-177. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2A) - Ch. 64)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-178. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2A) - Ch. 54)



Plot 7-179. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2A) - Ch. 62)

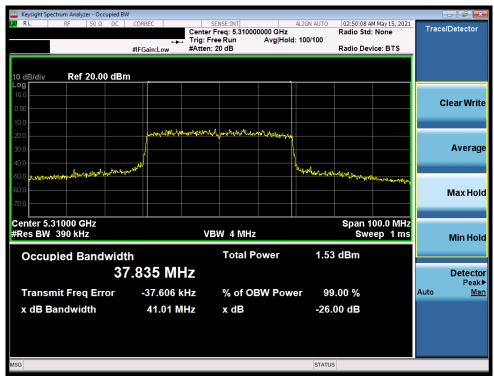
FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 500
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Plot 7-180. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2A) - Ch. 54)



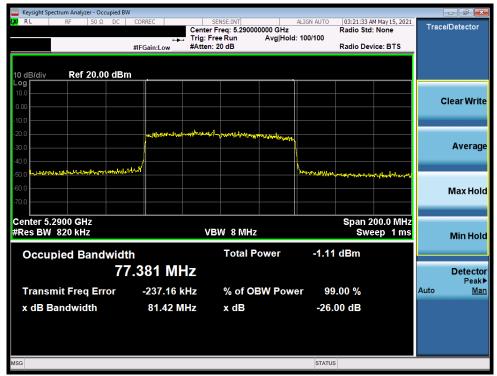
Plot 7-181. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2A) - Ch. 62)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 111 of 500
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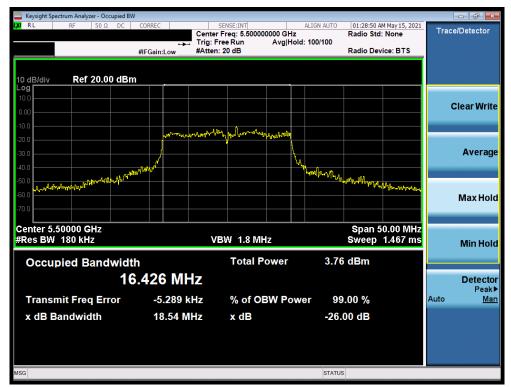
Plot 7-182. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2A) - Ch. 58)



Plot 7-183. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-184. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 100)



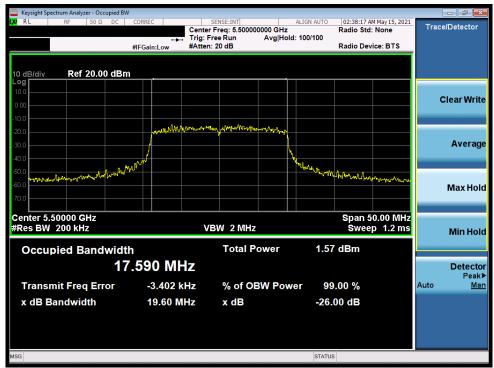
Plot 7-185. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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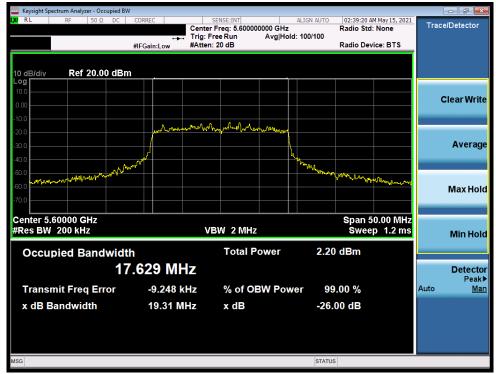
Plot 7-186. 26dB Bandwidth Plot MIMO (20MHz BW 802.11a (UNII Band 2C) - Ch. 144)



Plot 7-187. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2C) - Ch. 100)

FCC ID: A3LSMF711U	Proud to be part of element	WEAGERIEGATION SAN		Approved by: Technical Manager
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Plot 7-188. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2C) - Ch. 120)



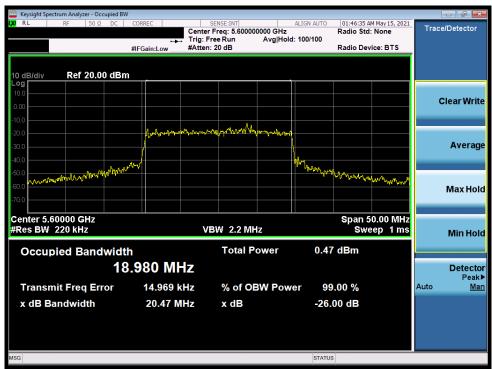
Plot 7-189. 26dB Bandwidth Plot MIMO (20MHz BW 802.11n (UNII Band 2C) - Ch. 144)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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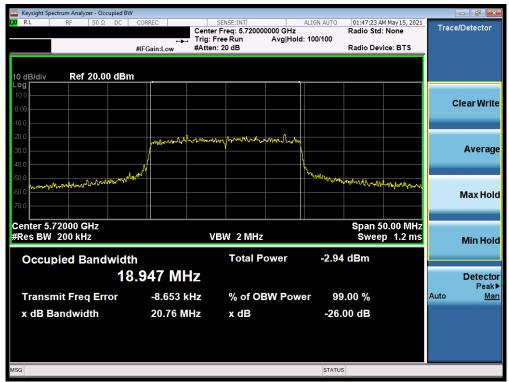
Plot 7-190. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 100)



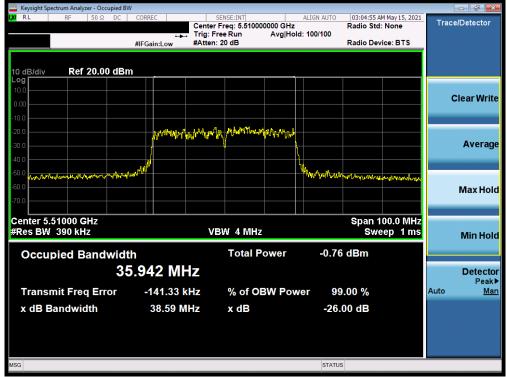
Plot 7-191. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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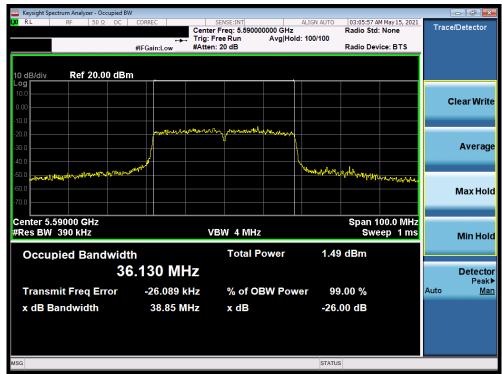
Plot 7-192. 26dB Bandwidth Plot MIMO (20MHz BW 802.11ax (UNII Band 2C) - Ch. 144)



Plot 7-193. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 117 of 500
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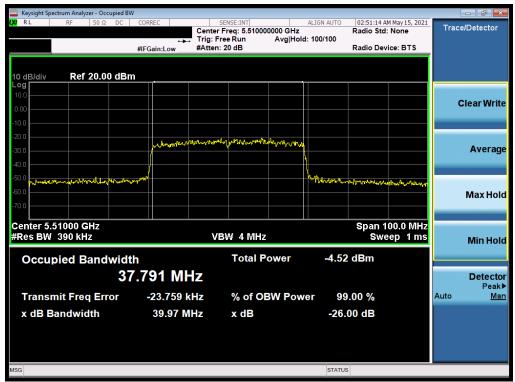
Plot 7-194. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 118)



Plot 7-195. 26dB Bandwidth Plot MIMO (40MHz BW 802.11n (UNII Band 2C) - Ch. 142)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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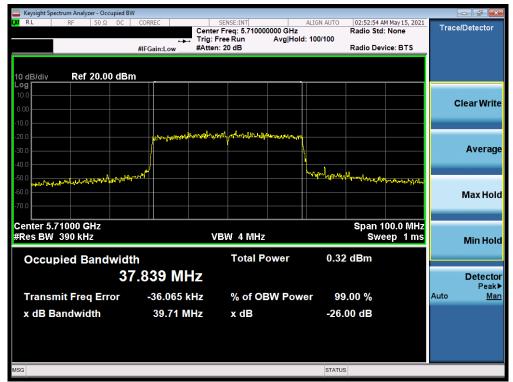
Plot 7-196. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 102)



Plot 7-197. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 118)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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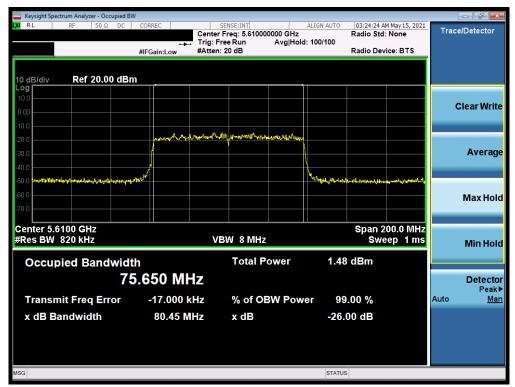
Plot 7-198. 26dB Bandwidth Plot MIMO (40MHz BW 802.11ax (UNII Band 2C) - Ch. 142)



Plot 7-199. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 106)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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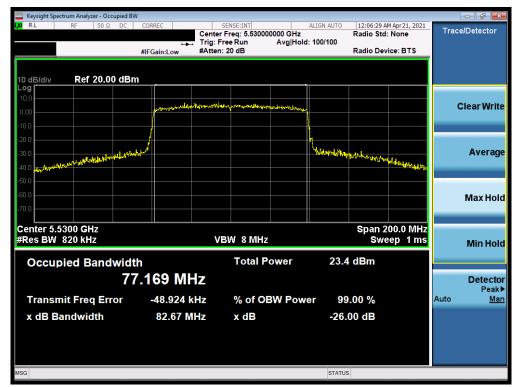
Plot 7-200. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 122)



Plot 7-201. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ac (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-202. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 106)



Plot 7-203. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 122)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-204. 26dB Bandwidth Plot MIMO (80MHz BW 802.11ax (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: Test Dates:		EUT Type:		Dogg 400 of 500
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7.3 6dB Bandwidth Measurement – 802.11a/n/ac/ax §15.407 (e); RSS-Gen [6.2]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 - 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 6.9.2 KDB 789033 D02 v02r01 – Section C

Test Settings

- The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- Trace mode = max hold
- 6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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Antenna-1 6 dB Bandwidth Measurements-N

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth - N [MHz]
	5745	149	а	6	15.66
	5785	157	а	6	16.01
	5825	165	а	6	15.09
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.32
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.61
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.55
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	17.91
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	19.01
ĕ	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.93
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.43
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.05
	5755	151	ax (40MHz)	13.5/15 (MCS0)	37.46
	5795	159	ax (40MHz)	13.5/15 (MCS0)	37.89
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	73.97
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.74

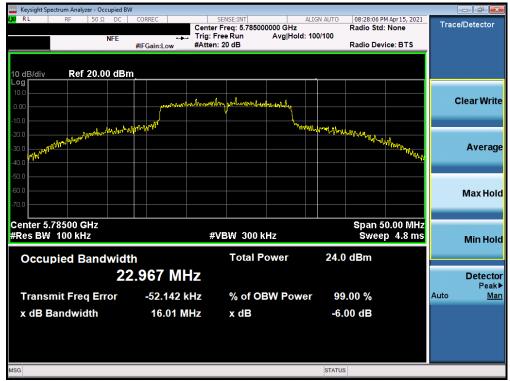
Table 7-6. Conducted Bandwidth Measurements ANT1



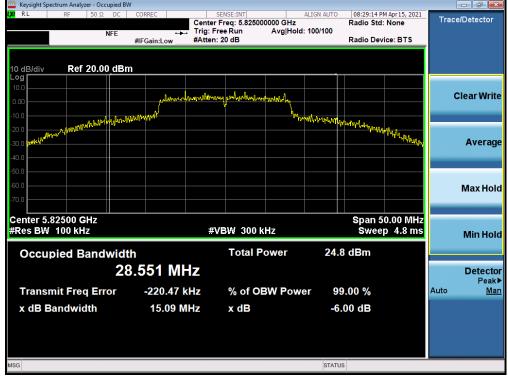
Plot 7-205. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-206. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)



Plot 7-207. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-208. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



Plot 7-209. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-210. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



Plot 7-211. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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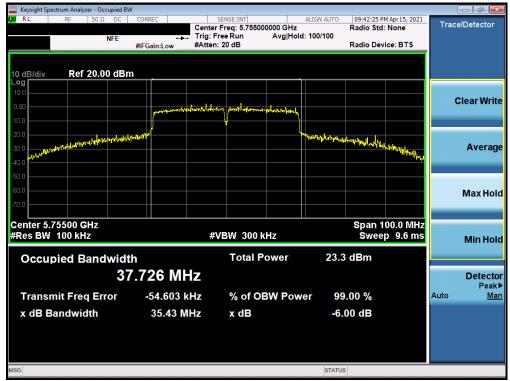
Plot 7-212. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)



Plot 7-213. 6dB Bandwidth Plot ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 500
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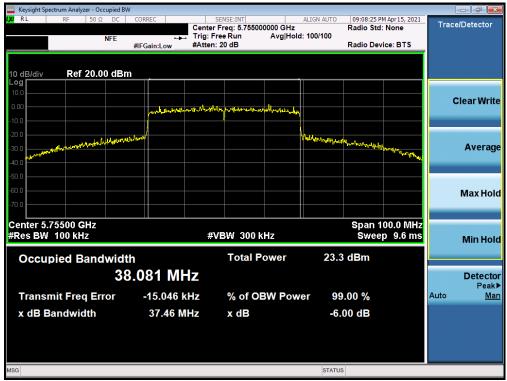
Plot 7-214. 6dB Bandwidth Plot ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-215. 6dB Bandwidth Plot ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 420 of 500
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Plot 7-216. 6dB Bandwidth Plot ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-217. 6dB Bandwidth Plot ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-218. 6dB Bandwidth Plot ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-219. 6dB Bandwidth Plot ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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SISO Antenna-1 6 dB Bandwidth Measurements-Q

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 6dB Bandwidth - Q [MHz]
	5745	149	а	6	15.65
	5785	157	а	6	15.75
	5825	165	а	6	15.36
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	17.57
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.57
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	17.21
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	17.56
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	18.94
Ä	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.34
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.36
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.97
	5755	151	ax (40MHz)	13.5/15 (MCS0)	36.55
	5795	159	ax (40MHz)	13.5/15 (MCS0)	38.01
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	72.97
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	77.01

Table 7-7. Conducted Bandwidth Measurements SISO ANT1



Plot 7-220. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-221. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 157)



Plot 7-222. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11a (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-223. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 149)



Plot 7-224. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Technical Manager
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Plot 7-225. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) - Ch. 165)



Plot 7-226. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-227. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 157)

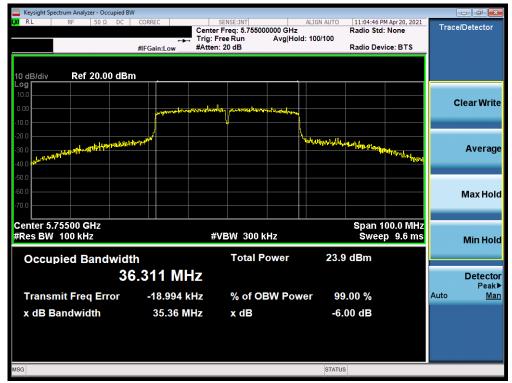


Plot 7-228. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) - Ch. 165)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-229. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 151)



Plot 7-230. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-231. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 151)



Plot 7-232. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) - Ch. 159)

FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-233. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) - Ch. 155)



Plot 7-234. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) - Ch. 155)

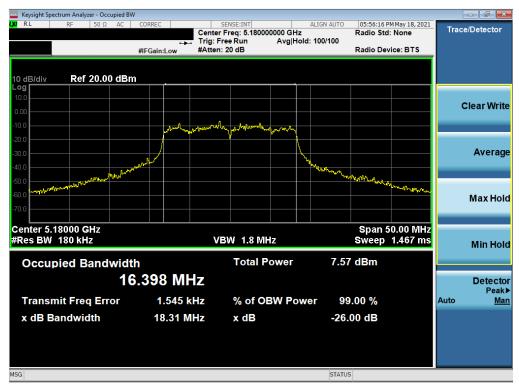
FCC ID: A3LSMF711U	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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MIMO 6 dB Bandwidth Measurements-N

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	MIMO 6dB Bandwidth - N [MHz]
	5745	149	а	6	18.31
	5785	157	а	6	16.33
	5825	165	а	6	15.42
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	13.21
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	17.60
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	13.93
က	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	16.15
Band	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	16.68
m	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	18.86
	5755	151	n (40MHz)	13.5/15 (MCS0)	35.12
	5795	159	n (40MHz)	13.5/15 (MCS0)	35.79
	5755	151	ax (40MHz)	13.5/15 (MCS0)	36.13
	5795	159	ax (40MHz)	13.5/15 (MCS0)	36.17
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	75.70
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	76.35

Table 7-8. Conducted Bandwidth Measurements MIMO



Plot 7-235. 6dB Bandwidth Plot MIMO (20MHz 802.11a (UNII Band 3) - Ch. 149)

FCC ID: A3LSMF711U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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