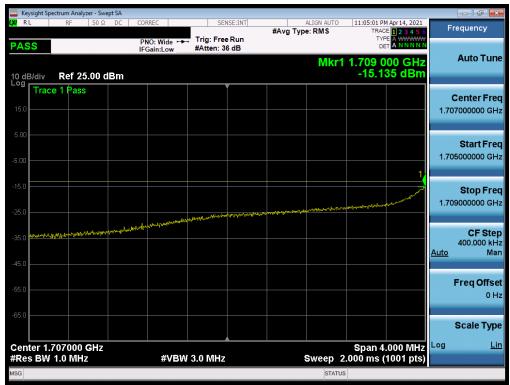


WCDMA AWS



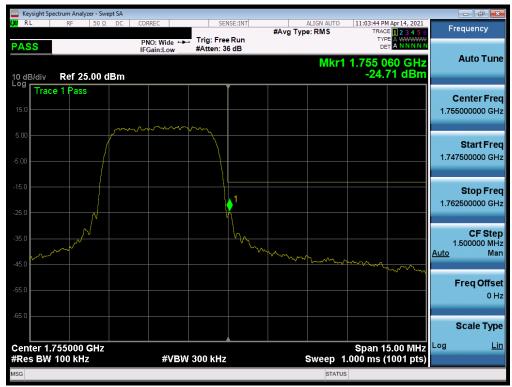
Plot 7-204. Lower Band Edge Plot (WCDMA AWS - Ch. 1312)



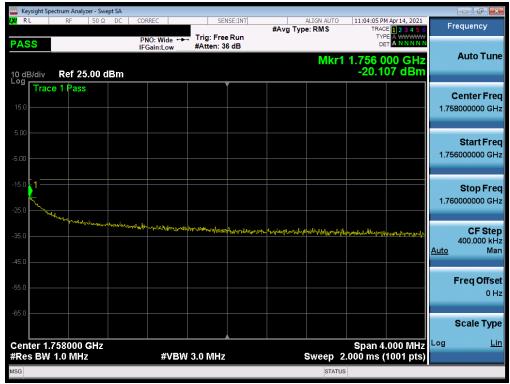
Plot 7-205. Lower Extended Band Edge Plot (WCDMA AWS - Ch. 1312)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 128 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 120 01 204





Plot 7-206. Upper Band Edge Plot (WCDMA AWS - Ch. 1513)

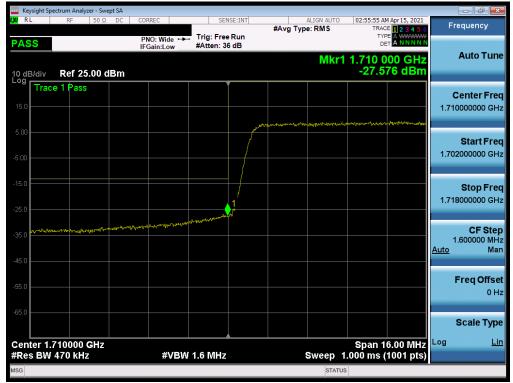


Plot 7-207. Upper Extended Band Edge Plot (WCDMA AWS - Ch. 1513)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 129 of 254



LTE Band 66/4



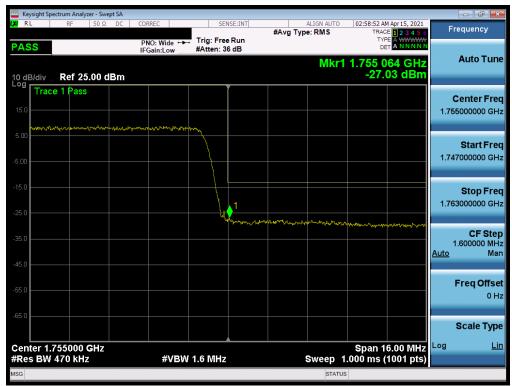
Plot 7-208. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)



Plot 7-209. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proved to be post of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 120 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 130 of 254
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Plot 7-210. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)



Plot 7-211. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)

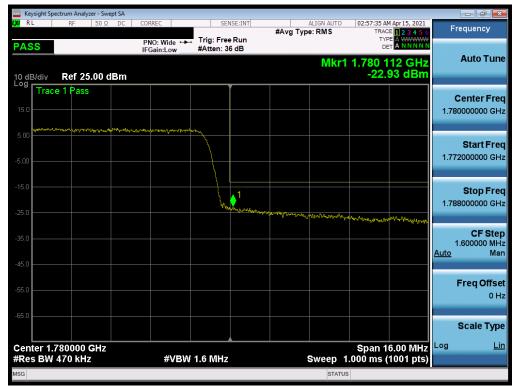
FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 121 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 131 of 254

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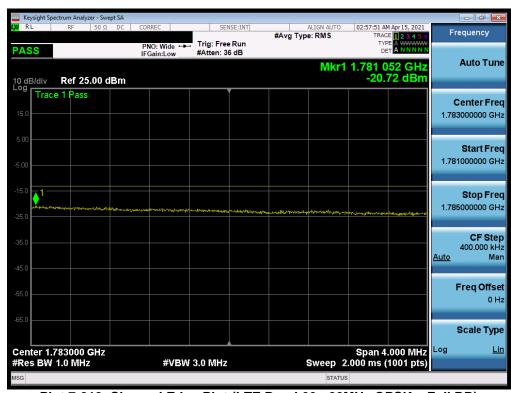
V1.3 12/31/2020
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Plot 7-212. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK - Full RB)



Plot 7-213. Channel Edge Plot (LTE Band 66 - 20MHz QPSK - Full RB)

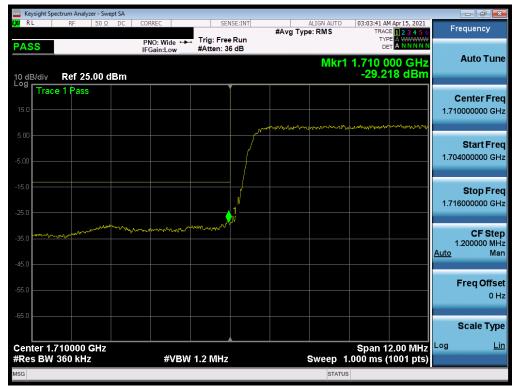
FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 122 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 132 of 254

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V1.3 12/31/2020
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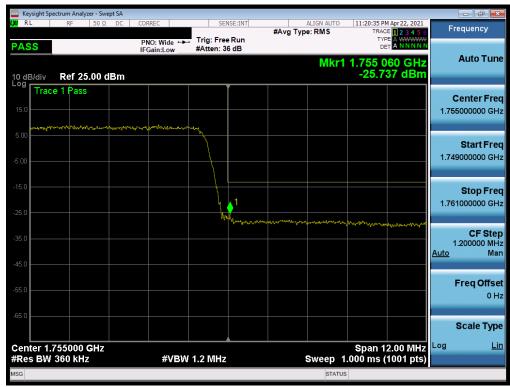
Plot 7-214. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)



Plot 7-215. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 133 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 133 01 234





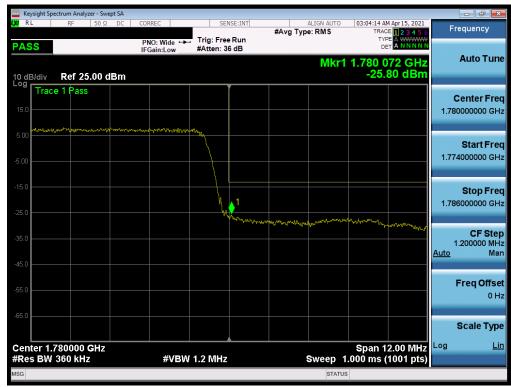
Plot 7-216. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)



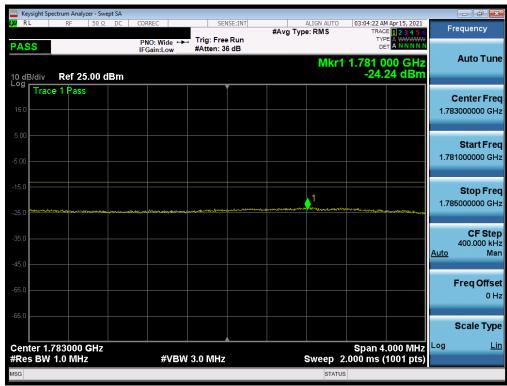
Plot 7-217. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	ISUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 124 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 134 of 254





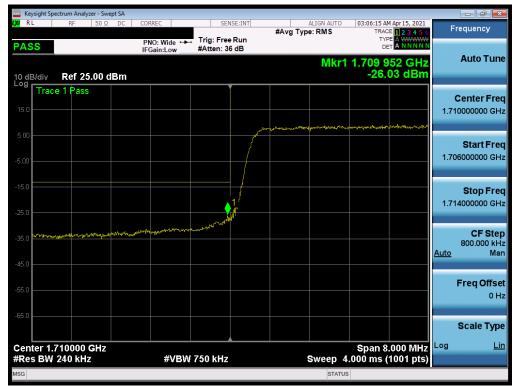
Plot 7-218. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK - Full RB)



Plot 7-219. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	MSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 135 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 133 01 234





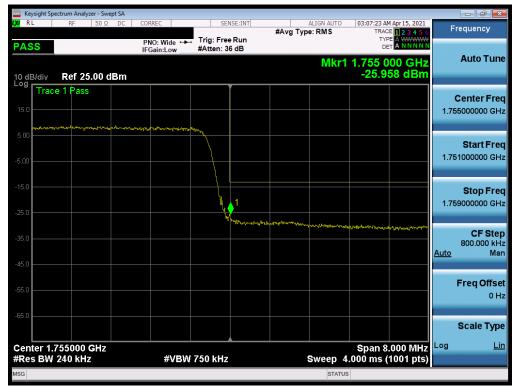
Plot 7-220. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)



Plot 7-221. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 136 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 130 01 234





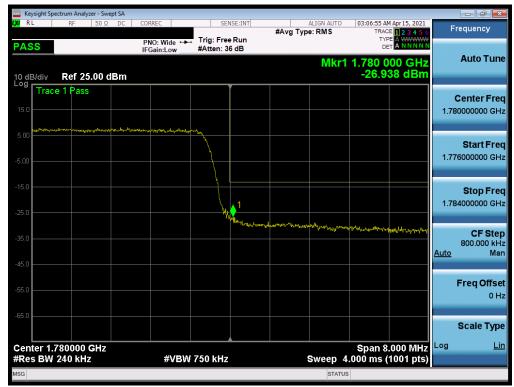
Plot 7-222. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)



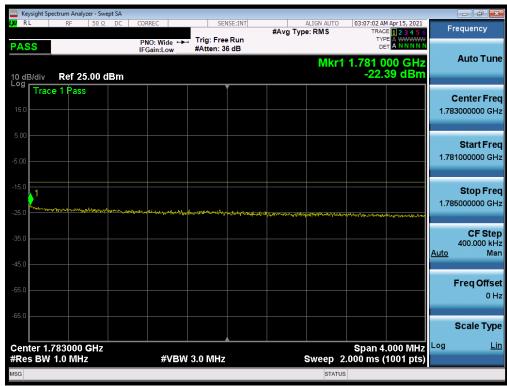
Plot 7-223. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF711U	POTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 127 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 137 of 254
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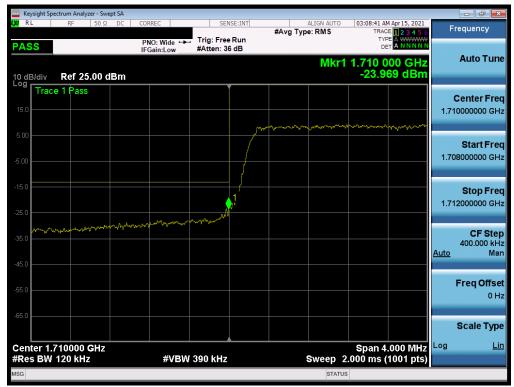
Plot 7-224. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB)



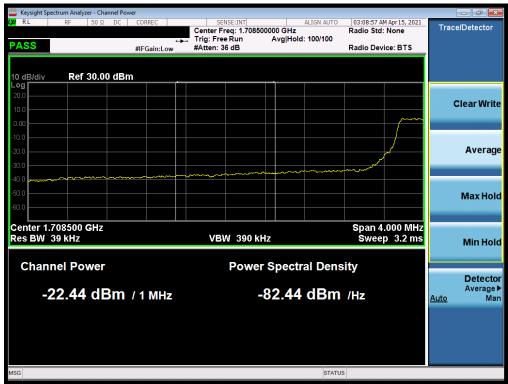
Plot 7-225. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 129 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset	Page 138 of 254





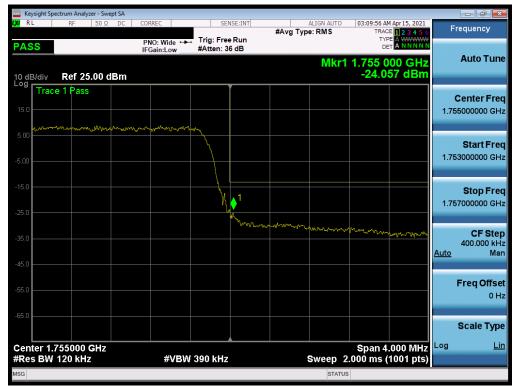
Plot 7-226. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)



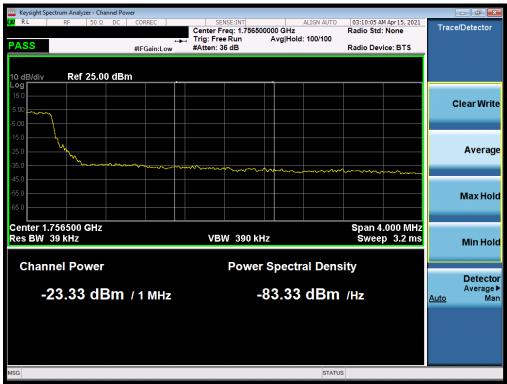
Plot 7-227. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 139 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 139 01 234





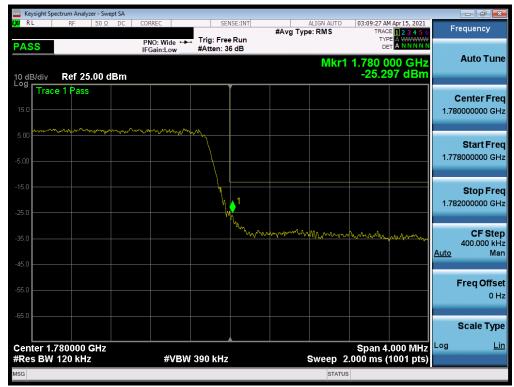
Plot 7-228. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB)



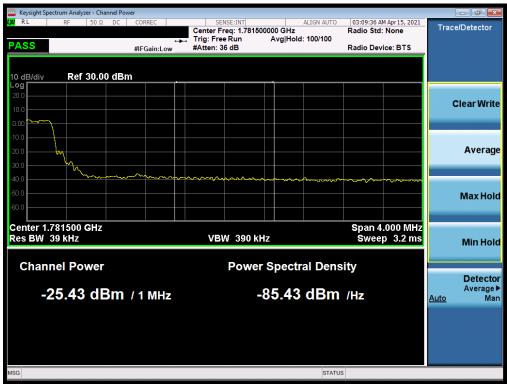
Plot 7-229. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 140 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 140 01 254





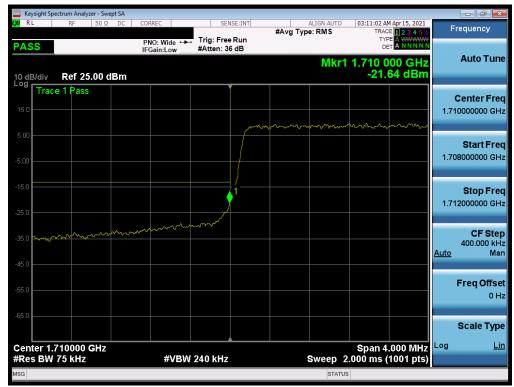
Plot 7-230. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB)



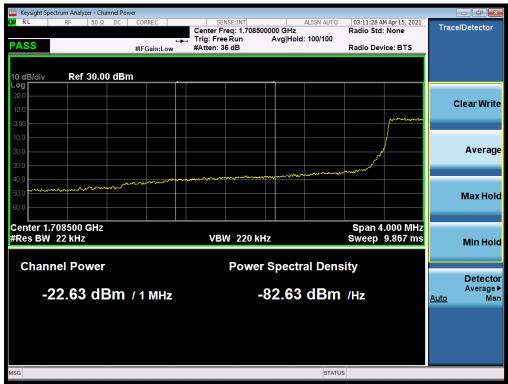
Plot 7-231. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 141 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 141 01 204





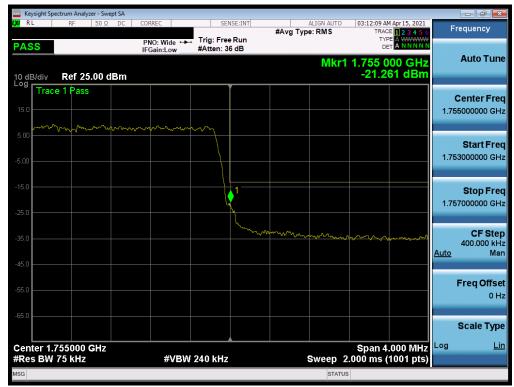
Plot 7-232. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)



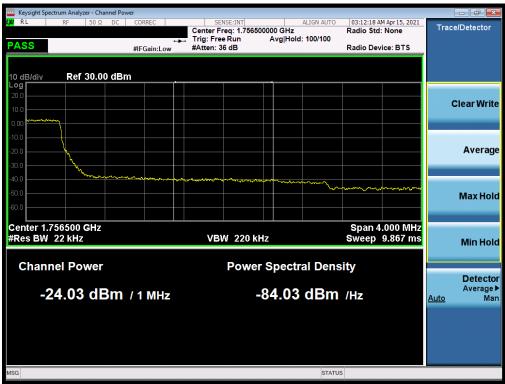
Plot 7-233. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 140 of 054
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 142 of 254
© 2021 PCTEST				V1.3 12/31/2020





Plot 7-234. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK - Full RB)



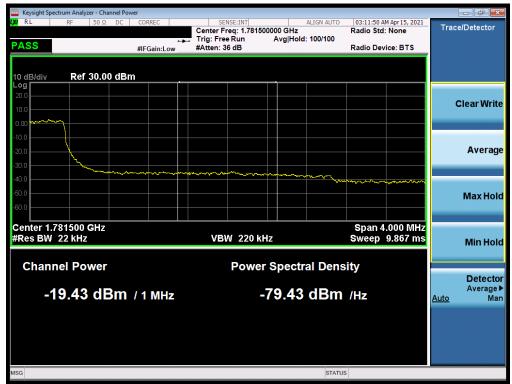
Plot 7-235. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	NSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 143 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 143 01 254





Plot 7-236. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK - Full RB)



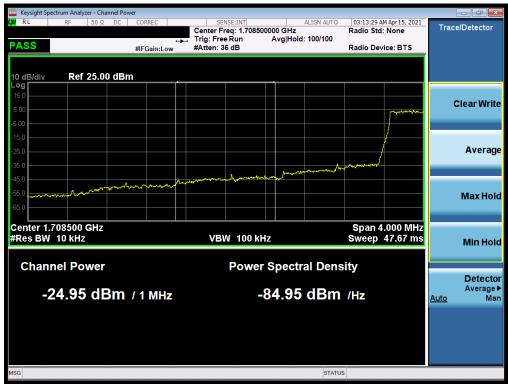
Plot 7-237. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 144 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 144 01 204





Plot 7-238. Lower Band Edge Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)



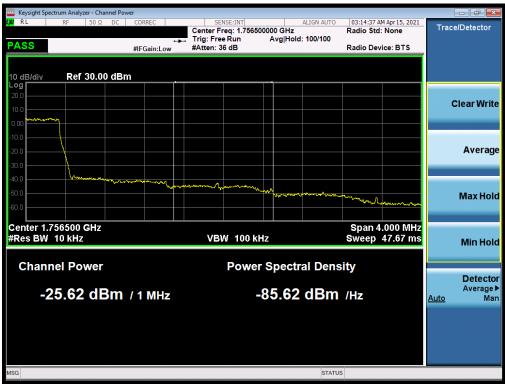
Plot 7-239. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 145 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 145 01 254





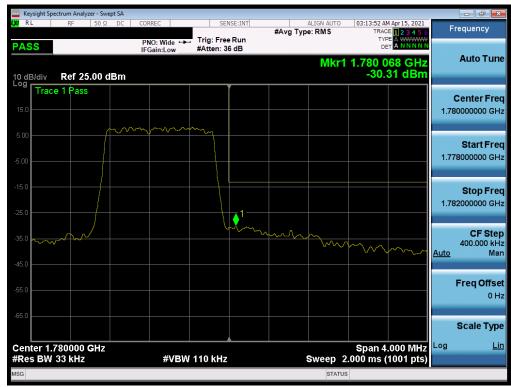
Plot 7-240. Upper Band Edge Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



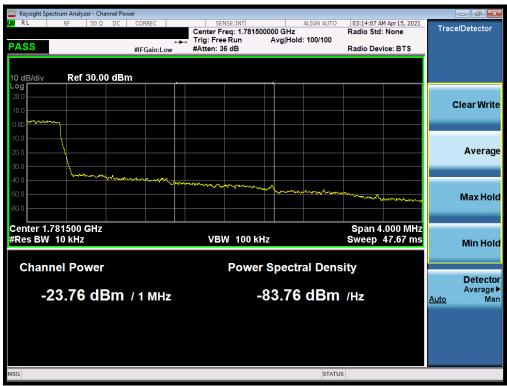
Plot 7-241. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 146 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset	Fage 140 01 204





Plot 7-242. Upper Band Edge Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)



Plot 7-243. Upper Extended Band Edge Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 147 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		rage 147 01 254



NR Band n66 - Ant A



Plot 7-244. Lower Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)



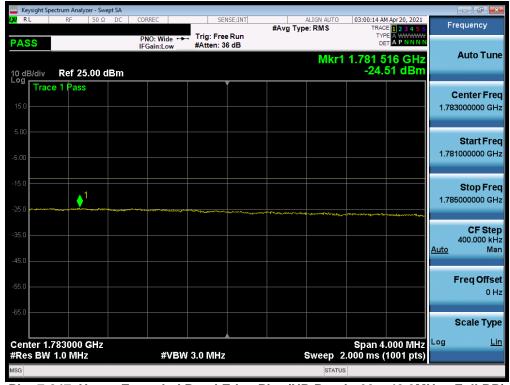
Plot 7-245. Lower Extended Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 148 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 140 01 204





Plot 7-246. Upper Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)



Plot 7-247. Upper Extended Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 149 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 149 01 254





Plot 7-248. Lower Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)



Plot 7-249. Lower Extended Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 150 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 150 of 254
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Plot 7-250. Upper Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)



Plot 7-251. Upper Extended Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 151 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 151 of 254
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Plot 7-252. Lower Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)



Plot 7-253. Lower Extended Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 152 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 152 01 254





Plot 7-254. Upper Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)



Plot 7-255. Upper Extended Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 153 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 100 01 204





Plot 7-256. Lower Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)



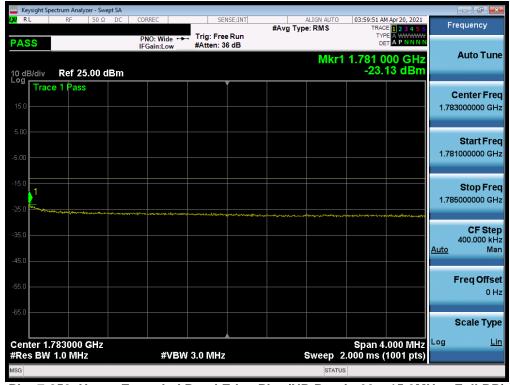
Plot 7-257. Lower Extended Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)

FCC ID: A3LSMF711U	Provid to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 154 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 154 of 254
© 2021 PCTEST				V1.3 12/31/2020





Plot 7-258. Upper Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)



Plot 7-259. Upper Extended Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 155 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 155 of 254
© 2021 PCTEST				V1.3 12/31/2020





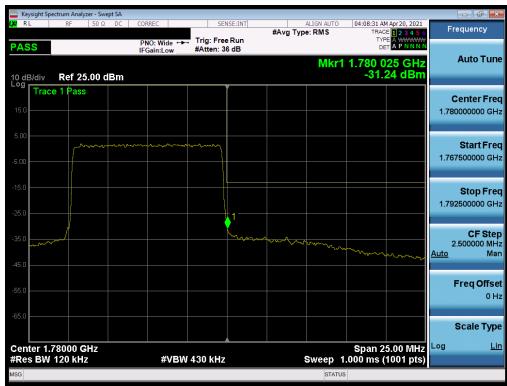
Plot 7-260. Lower Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



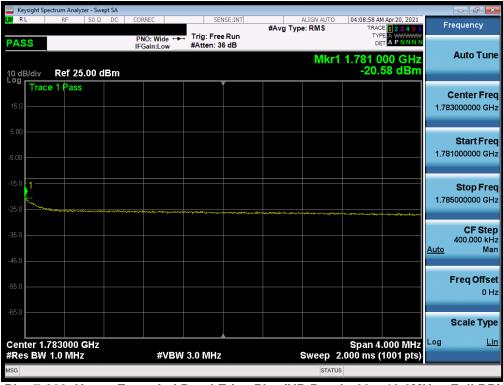
Plot 7-261. Lower Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 156 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 130 01 234





Plot 7-262. Upper Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



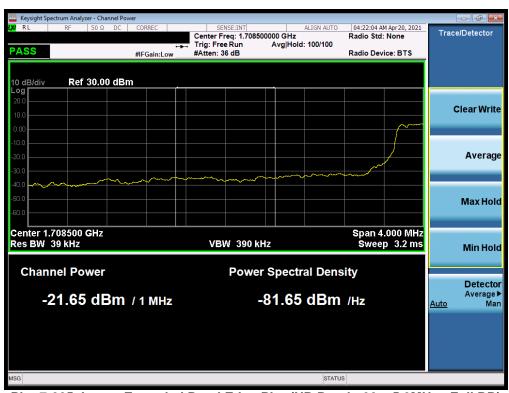
Plot 7-263. Upper Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 157 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 157 of 254
© 2021 PCTEST				V1.3 12/31/2020





Plot 7-264. Lower Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)



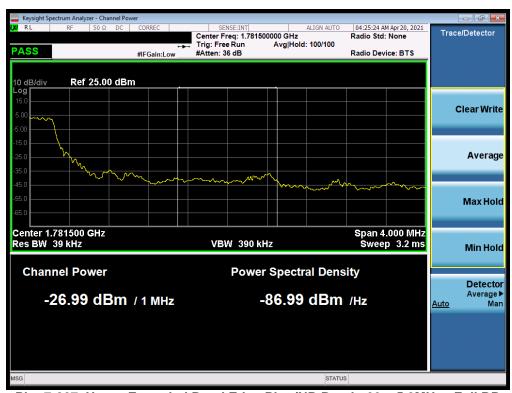
Plot 7-265. Lower Extended Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 450 of 054
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 158 of 254
© 2021 PCTEST				V1.3 12/31/2020





Plot 7-266. Upper Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)



Plot 7-267. Upper Extended Band Edge Plot (NR Band n66 - 5.0MHz - Full RB

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 450 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 159 of 254
© 2021 PCTEST				V1.3 12/31/2020



NR Band n66 - Ant I



Plot 7-268. Lower Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)



Plot 7-269. Lower Extended Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 160 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 160 01 254





Plot 7-270. Upper Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)



Plot 7-271. Upper Extended Band Edge Plot (NR Band n66 - 40.0MHz - Full RB)

FCC ID: A3LSMF711U	Proved to be port of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 161 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 161 of 254
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Plot 7-272. Lower Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)



Plot 7-273. Lower Extended Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 162 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 102 01 254





Plot 7-274. Upper Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)



Plot 7-275. Upper Extended Band Edge Plot (NR Band n66 - 30.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 163 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 103 01 254





Plot 7-276. Lower Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)



Plot 7-277. Lower Extended Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 164 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 104 01 254

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Plot 7-278. Upper Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)



Plot 7-279. Upper Extended Band Edge Plot (NR Band n66 - 20.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dog 165 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 165 of 254
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Plot 7-280. Lower Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)



Plot 7-281. Lower Extended Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	ISUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 166 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 100 01 254





Plot 7-282. Upper Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)



Plot 7-283. Upper Extended Band Edge Plot (NR Band n66 - 15.0MHz - Full RB)

FCC ID: A3LSMF711U	Proved to be post of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 467 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 167 of 254
© 2021 PCTEST				





Plot 7-284. Lower Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



Plot 7-285. Lower Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 460 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 168 of 254
© 2021 PCTEST				





Plot 7-286. Upper Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



Plot 7-287. Upper Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 169 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 109 01 254





Plot 7-288. Lower Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)



Plot 7-289. Lower Extended Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST* Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 170 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 170 of 254
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Plot 7-290. Upper Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)



Plot 7-291. Upper Extended Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 171 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 17 1 01 254



7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None.

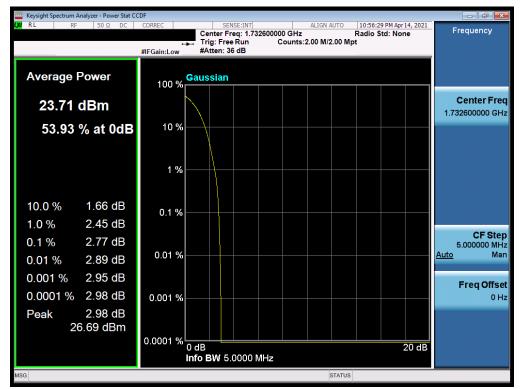
FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 172 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 172 01 254

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WCDMA AWS

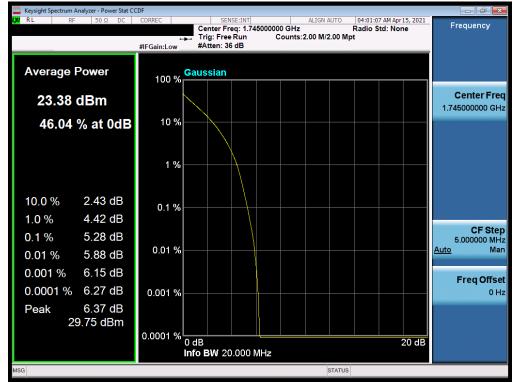


Plot 7-292. PAR Plot (WCDMA, Ch. 1413)

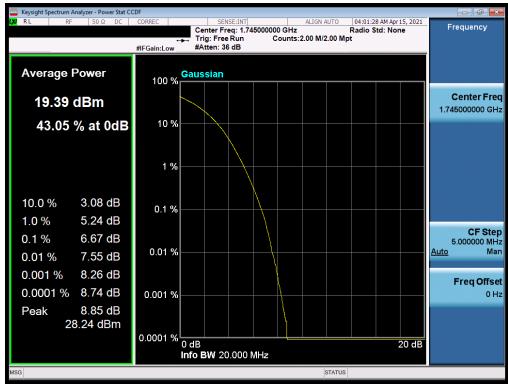
FCC ID: A3LSMF711U	Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 173 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Page 173 01 254
© 2021 PCTEST				V1.3 12/31/2020



LTE Band 66/4



Plot 7-293. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

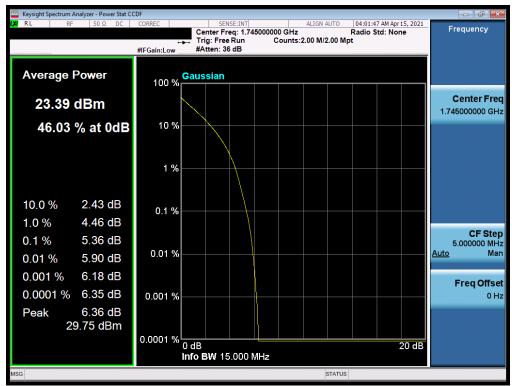


Plot 7-294. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

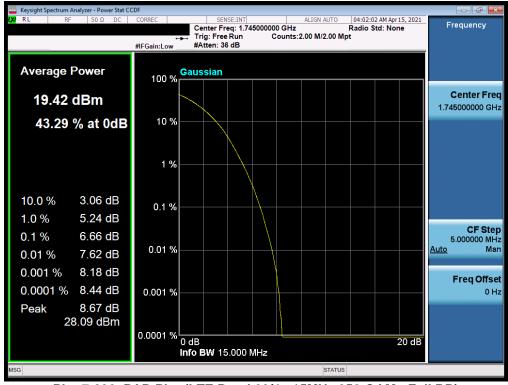
FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 174 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Faye 174 01 234

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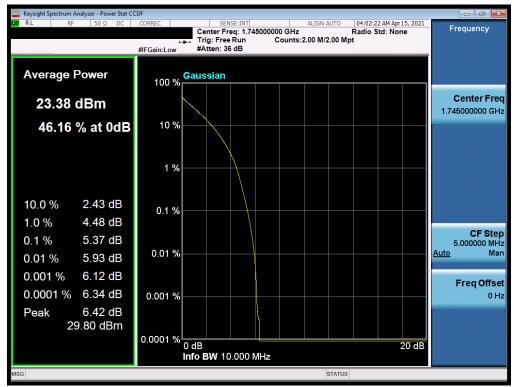
Plot 7-295. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)



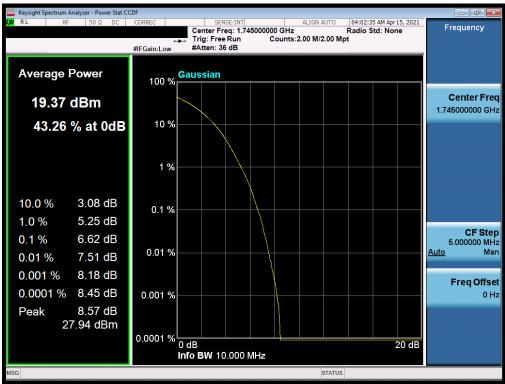
Plot 7-296. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U	Proud to be part of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 175 of 254
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset		Fage 175 01 254





Plot 7-297. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)



Plot 7-298. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U	Proud to be port of @element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 176 of 254	
1M2104070032-04.A3L	04/12/2021 - 06/04/2021	Portable Handset			

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