



Plot 7-187. Upper Band Edge Plot (NR Band n25 - 40MHz QPSK - Full RB)



Plot 7-188. Extended Upper Band Edge Plot (NR Band n25 - 40MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 116 of 203



Plot 7-189. Lower Band Edge Plot (NR Band n25 - 30MHz QPSK - Full RB)



Plot 7-190. Extended Lower Band Edge Plot (NR Band n25 - 30MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 117 of 203

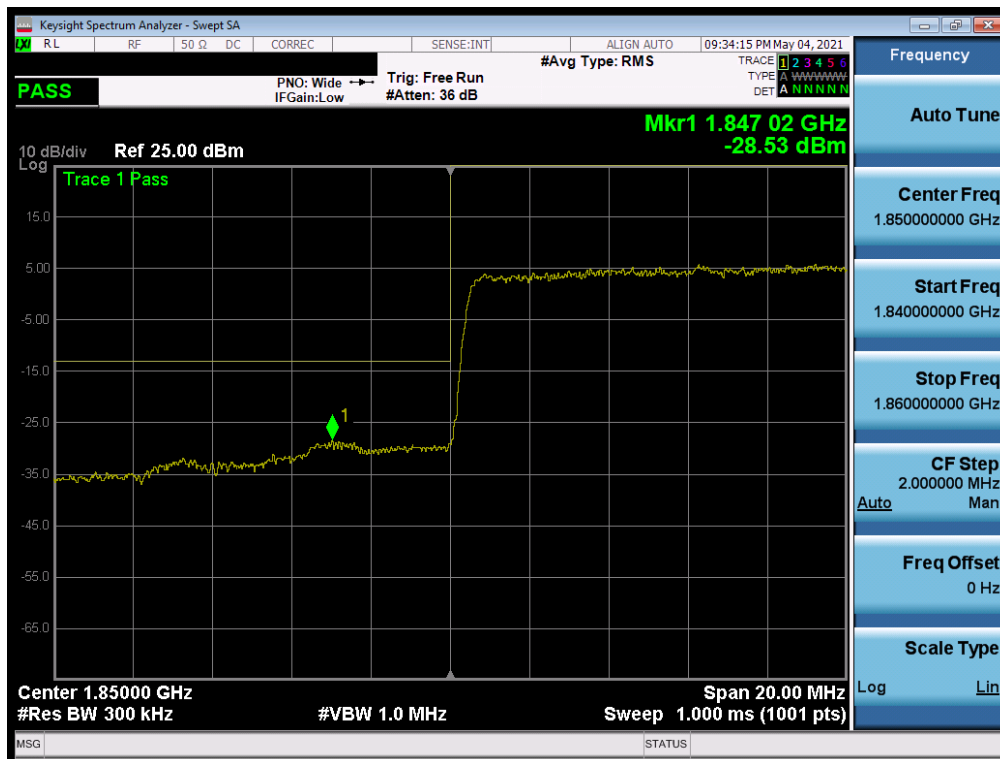


Plot 7-191. Upper Band Edge Plot (NR Band n25 - 30MHz QPSK - Full RB)



Plot 7-192. Extended Upper Band Edge Plot (NR Band n25 - 30MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-193. Lower Band Edge Plot (NR Band n25 – 25MHz QPSK – Full RB)

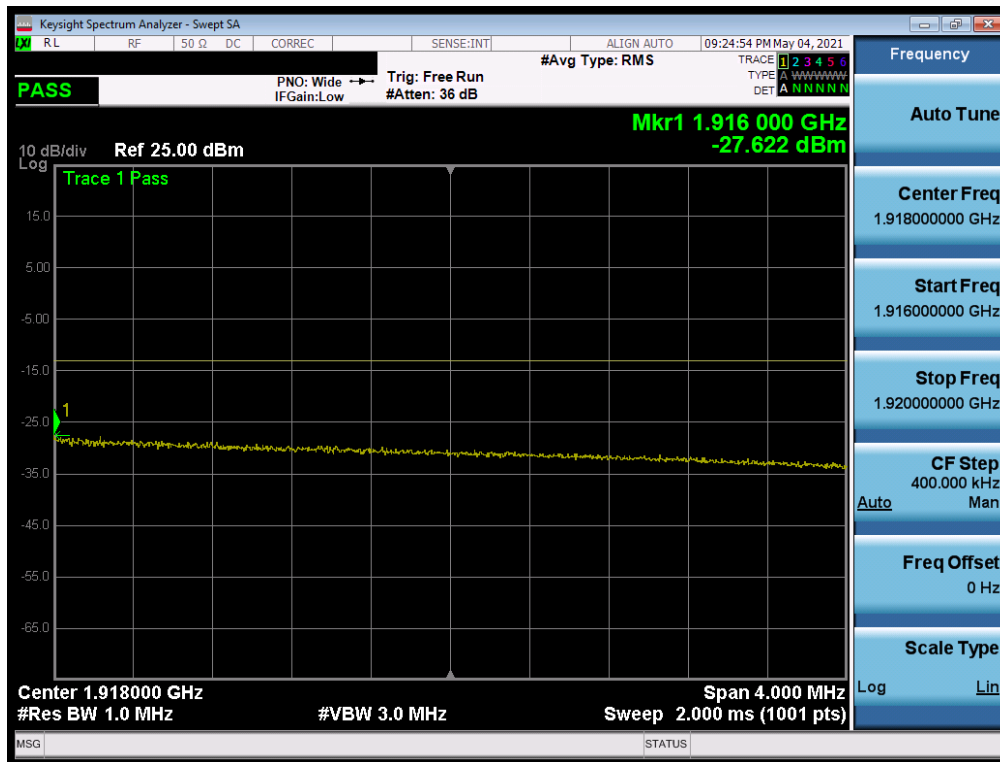


Plot 7-194. Extended Lower Band Edge Plot (NR Band n25 – 25MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 119 of 203



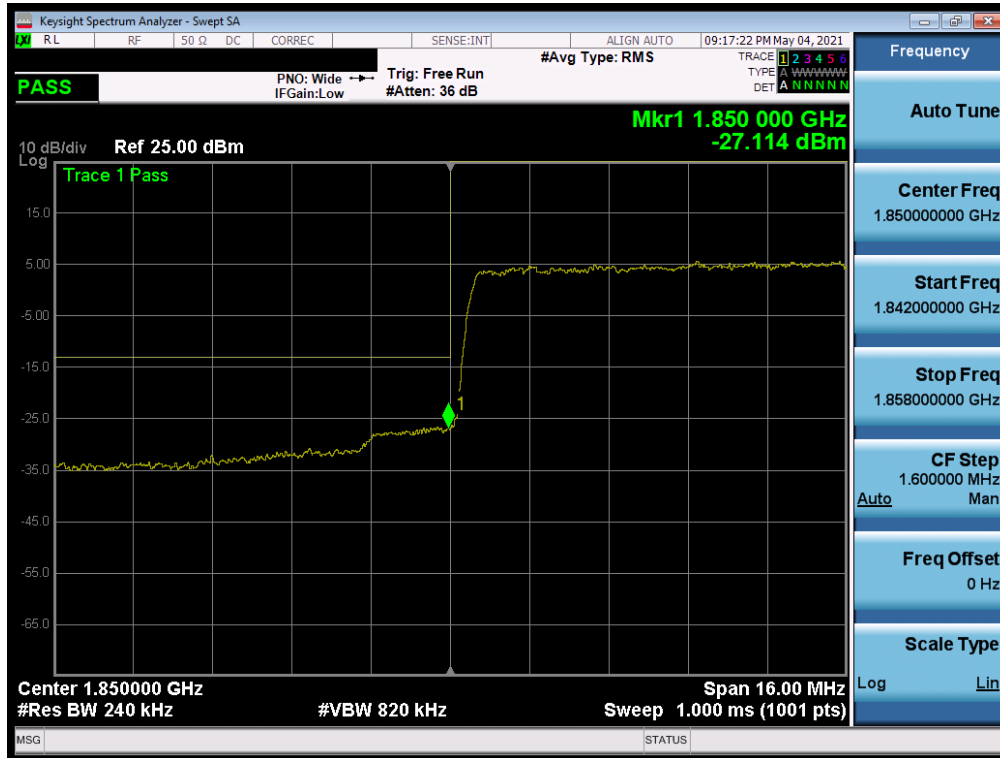
Plot 7-195. Upper Band Edge Plot (NR Band n25 - 25MHz QPSK - Full RB)



Plot 7-196. Extended Upper Band Edge Plot (NR Band n25 - 25MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n25/2 – Ant I



Plot 7-197. Lower Band Edge Plot (NR Band n25/2 – 20MHz QPSK – Full RB)

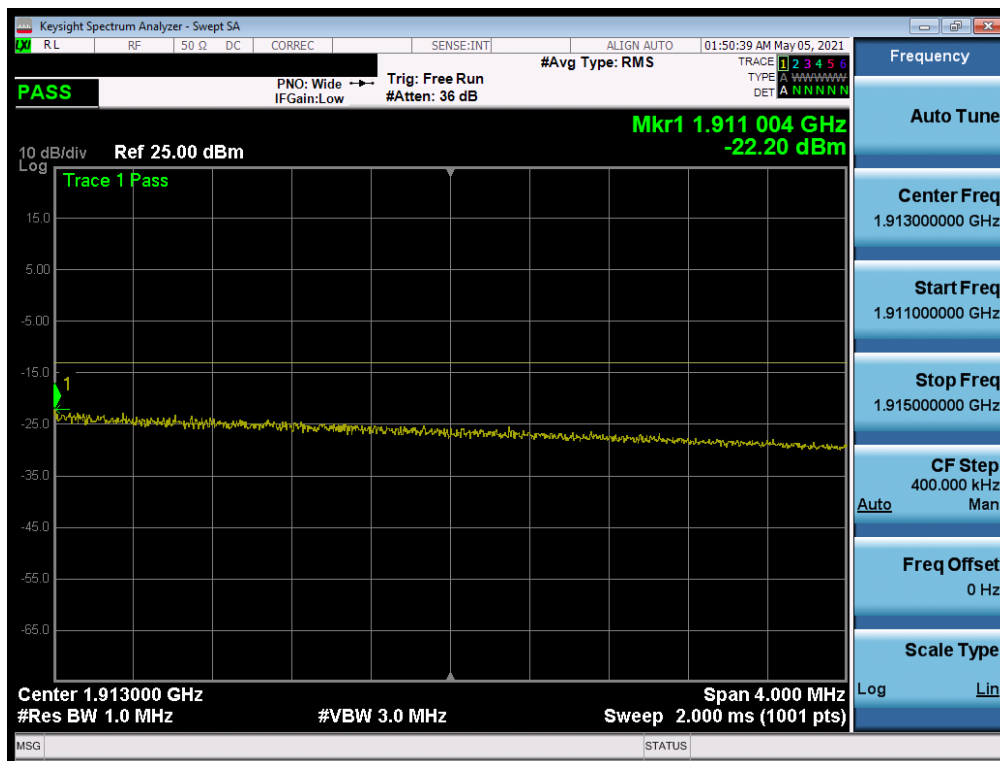


Plot 7-198. Extended Lower Band Edge Plot (NR Band n25/2 – 20MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-199. Upper Band Edge Plot (NR Band n2 – 20MHz QPSK – Full RB)

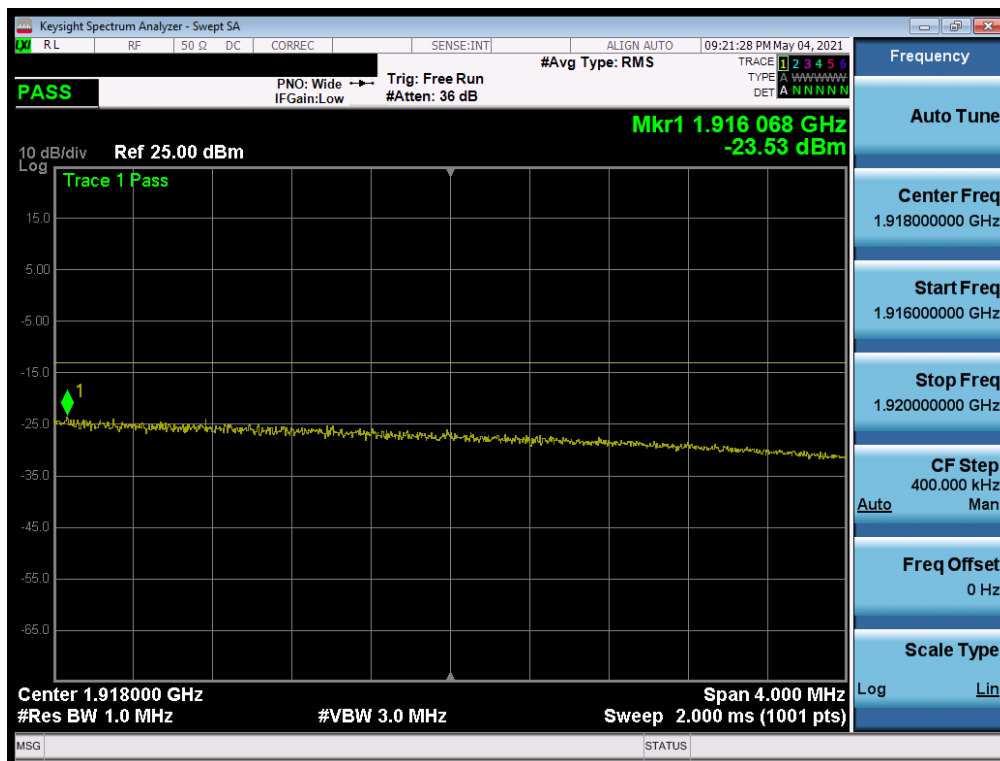


Plot 7-200. Extended Upper Band Edge Plot (NR Band n2 – 20MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 122 of 203

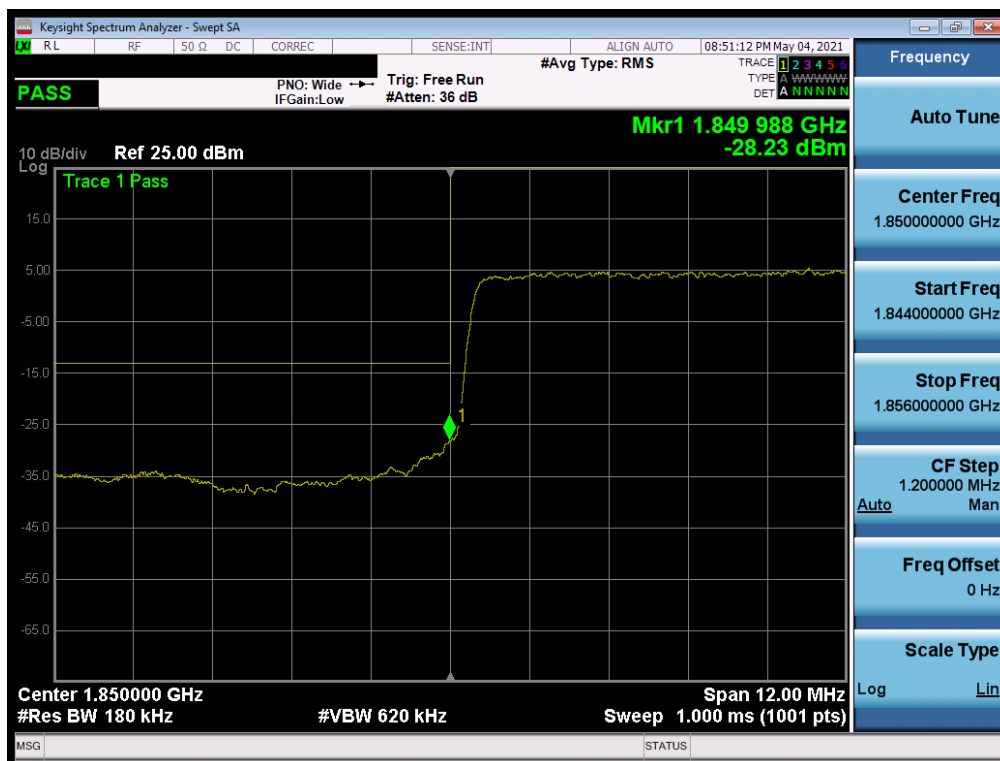


Plot 7-201. Upper Band Edge Plot (NR Band n25 – 20MHz QPSK – Full RB)

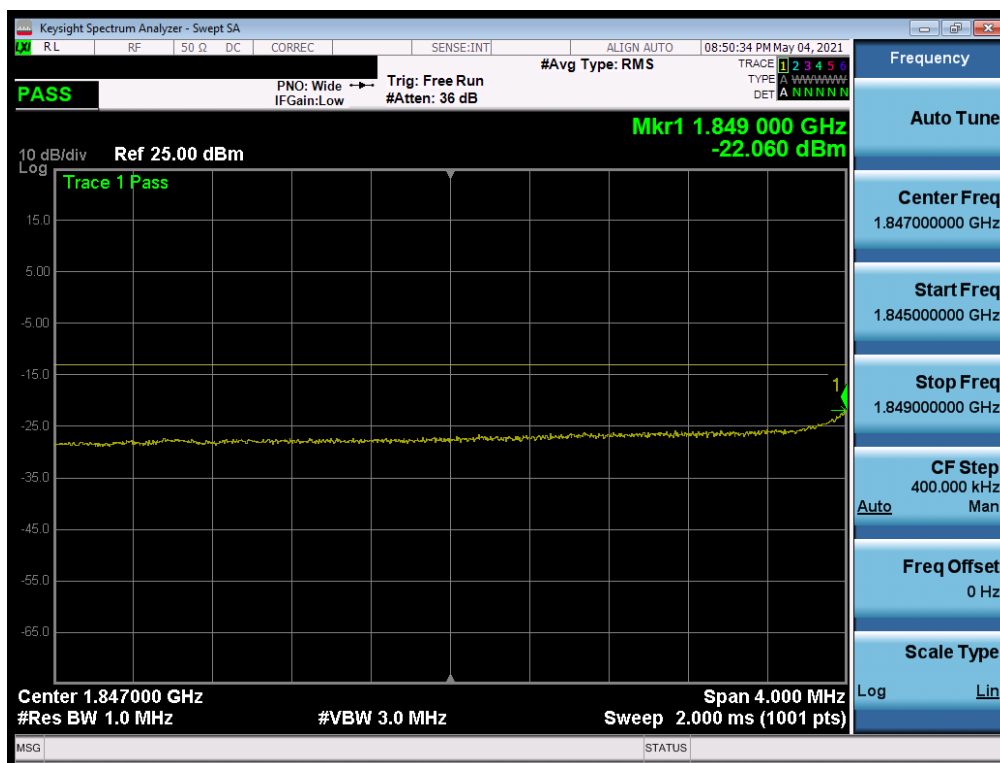


Plot 7-202. Extended Upper Band Edge Plot (NR Band n25 – 20MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-203. Lower Band Edge Plot (NR Band n25/2 – 15MHz QPSK – Full RB)



Plot 7-204. Extended Lower Band Edge Plot (NR Band n25/2 – 15MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 124 of 203



Plot 7-205. Upper Band Edge Plot (NR Band n2 – 15MHz QPSK – Full RB)



Plot 7-206. Extended Upper Band Edge Plot (NR Band n2 – 15MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 125 of 203

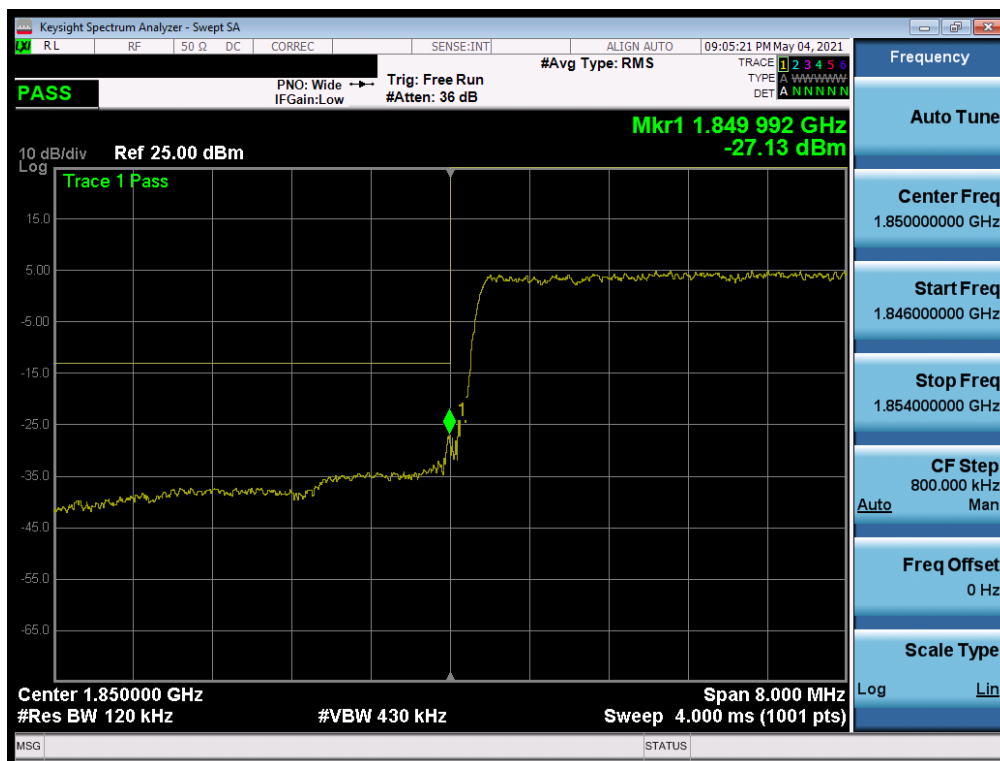


Plot 7-207. Upper Band Edge Plot (NR Band n25 - 15MHz QPSK - Full RB)

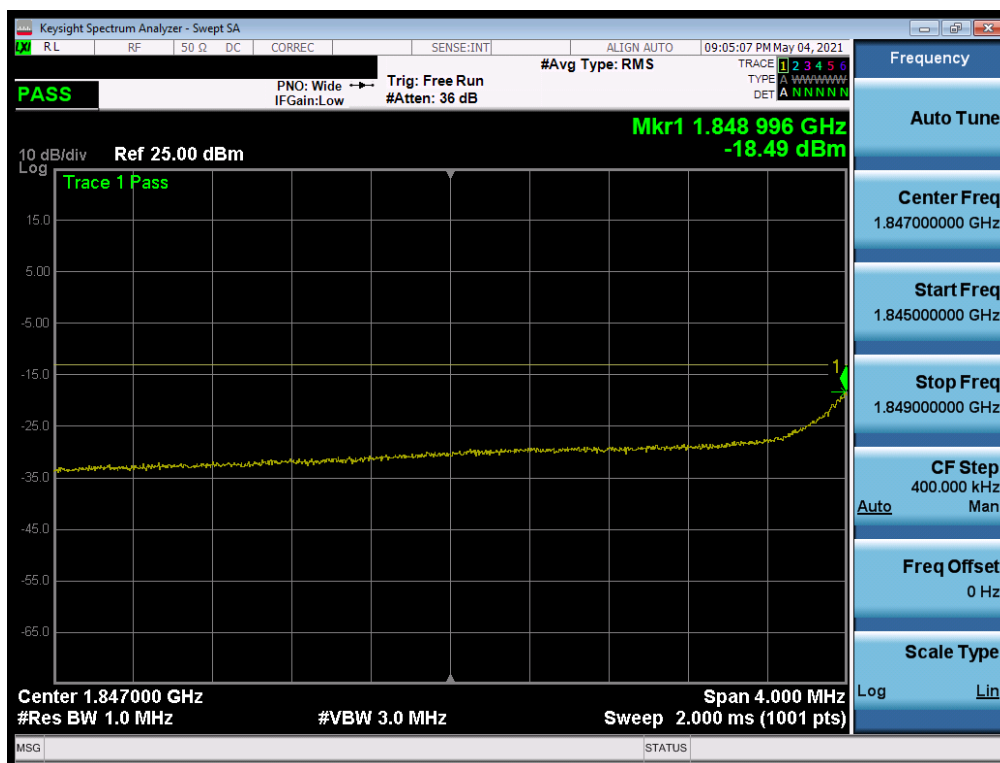


Plot 7-208. Extended Upper Band Edge Plot (NR Band n25 - 15MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-209. Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB)



Plot 7-210. Extended Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 127 of 203



Plot 7-211. Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB)



Plot 7-212. Extended Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB 2)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 128 of 203

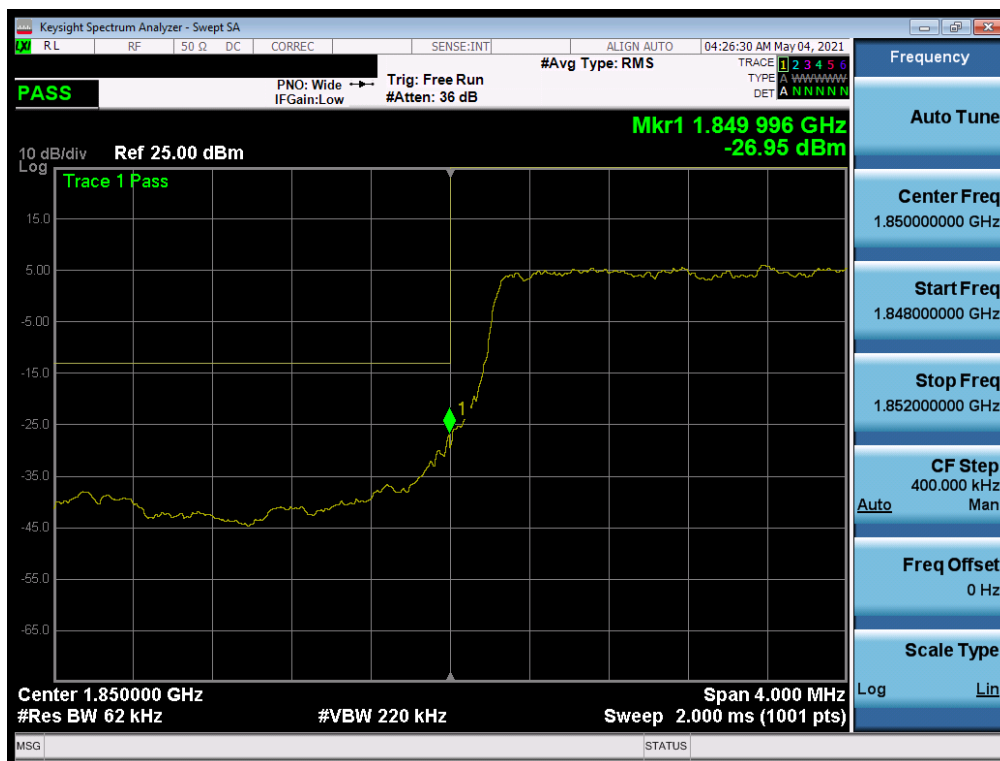


Plot 7-213. Upper Band Edge Plot (NR Band n25 – 10MHz QPSK – Full RB)

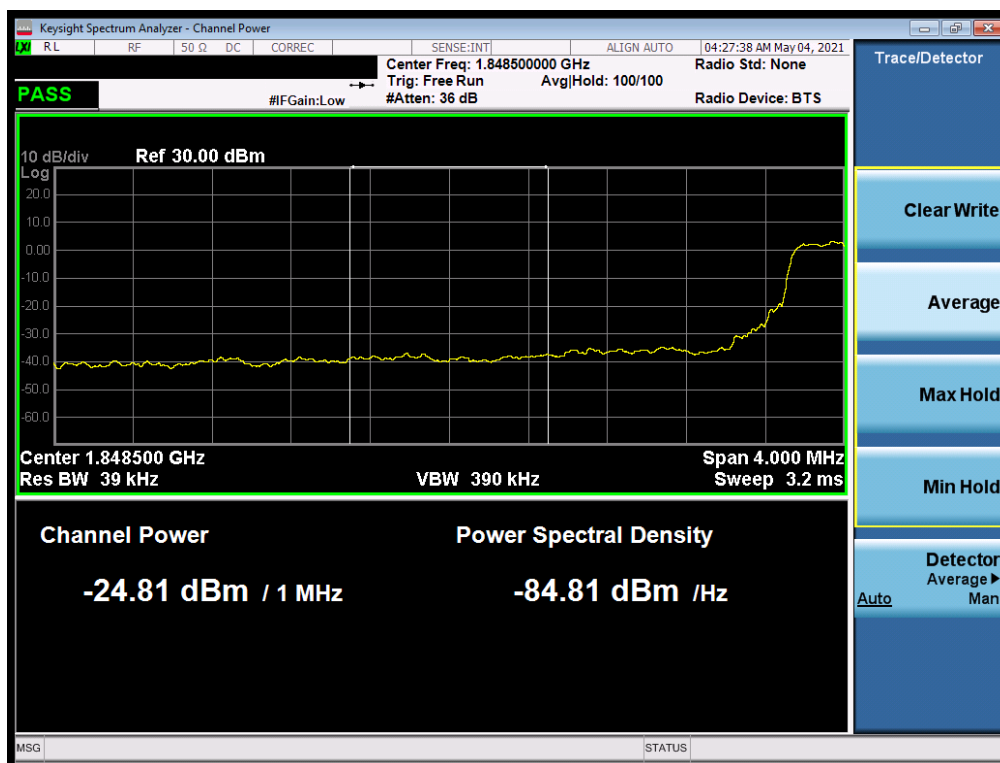


Plot 7-214. Extended Upper Band Edge Plot (NR Band n25 – 10MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-215. Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB)

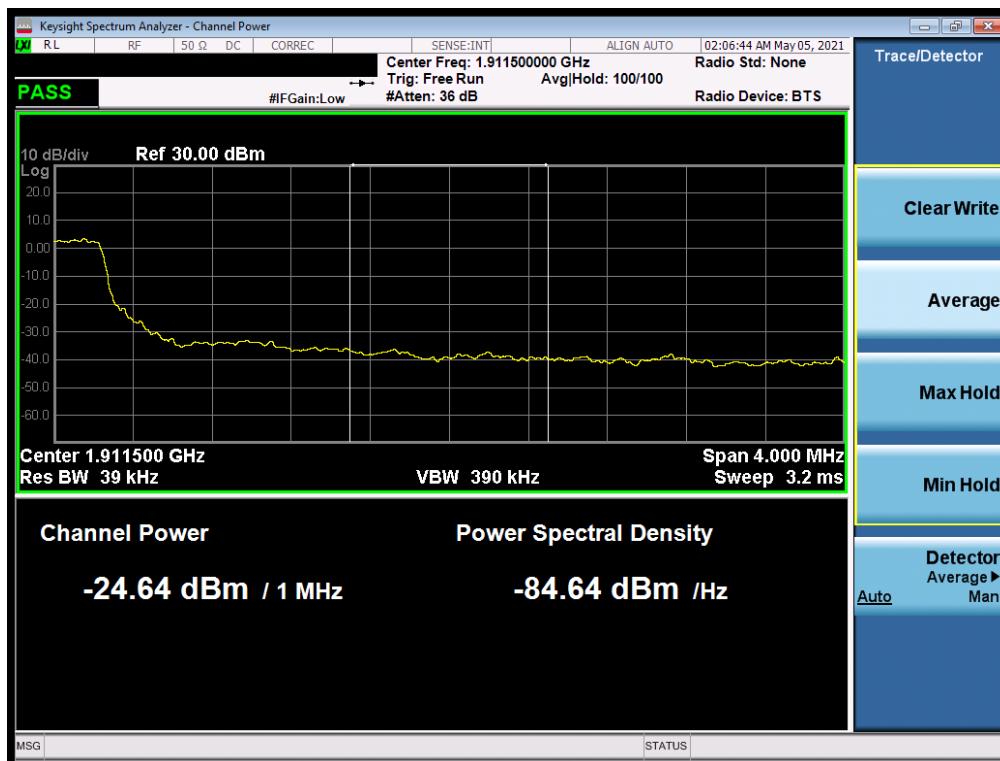


Plot 7-216. Extended Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 130 of 203



Plot 7-217. Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB)

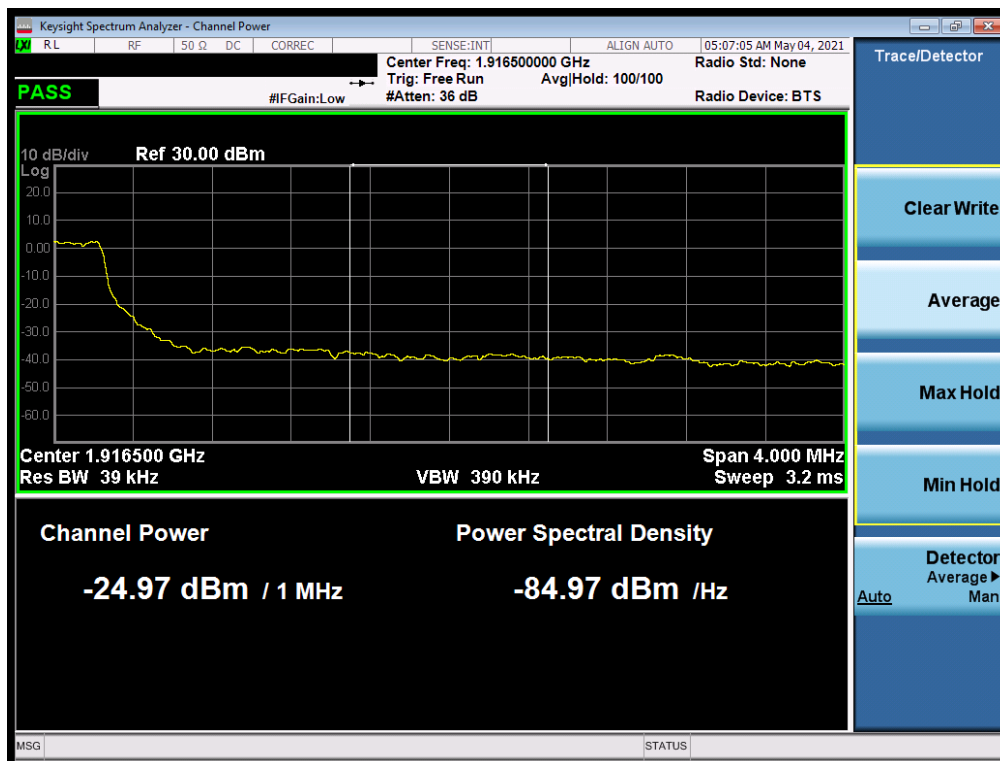


Plot 7-218. Extended Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 131 of 203



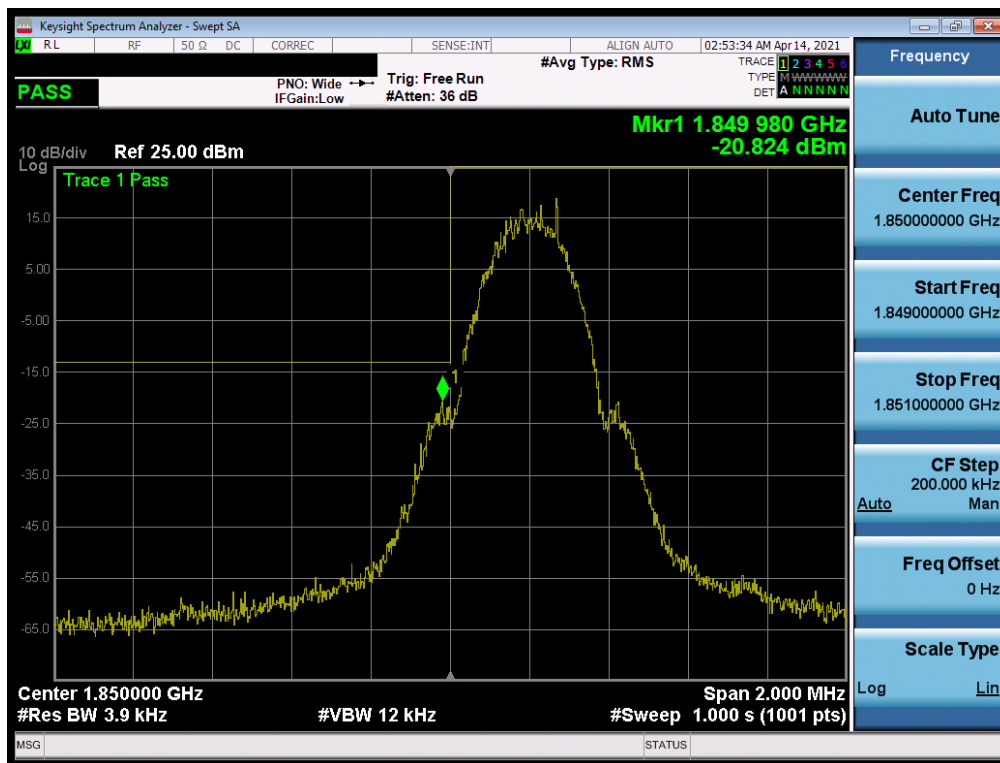
Plot 7-219. Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB)



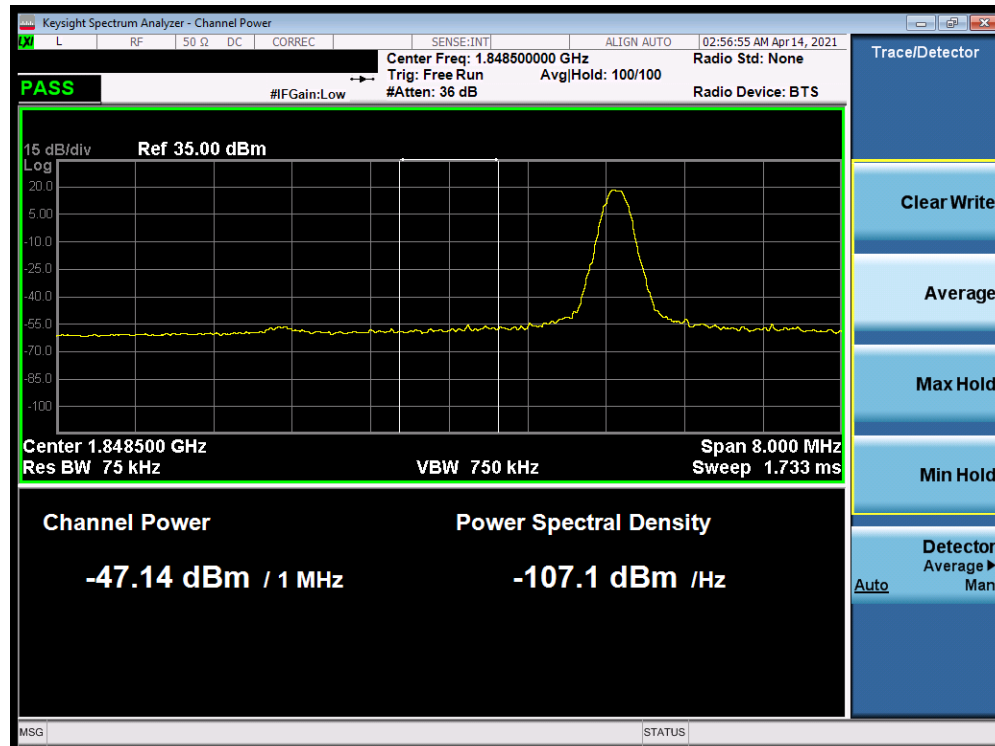
Plot 7-220. Extended Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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GSM/GPRS PCS

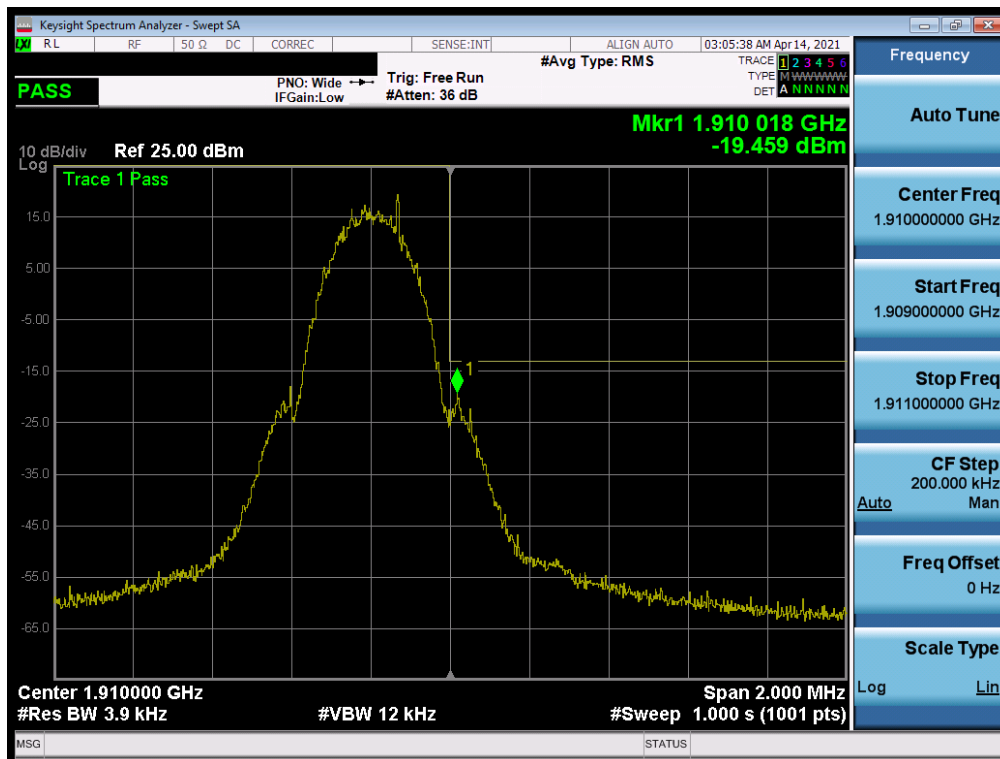


Plot 7-221. Lower Band Edge Plot (GSM PCS – Ch. 512)

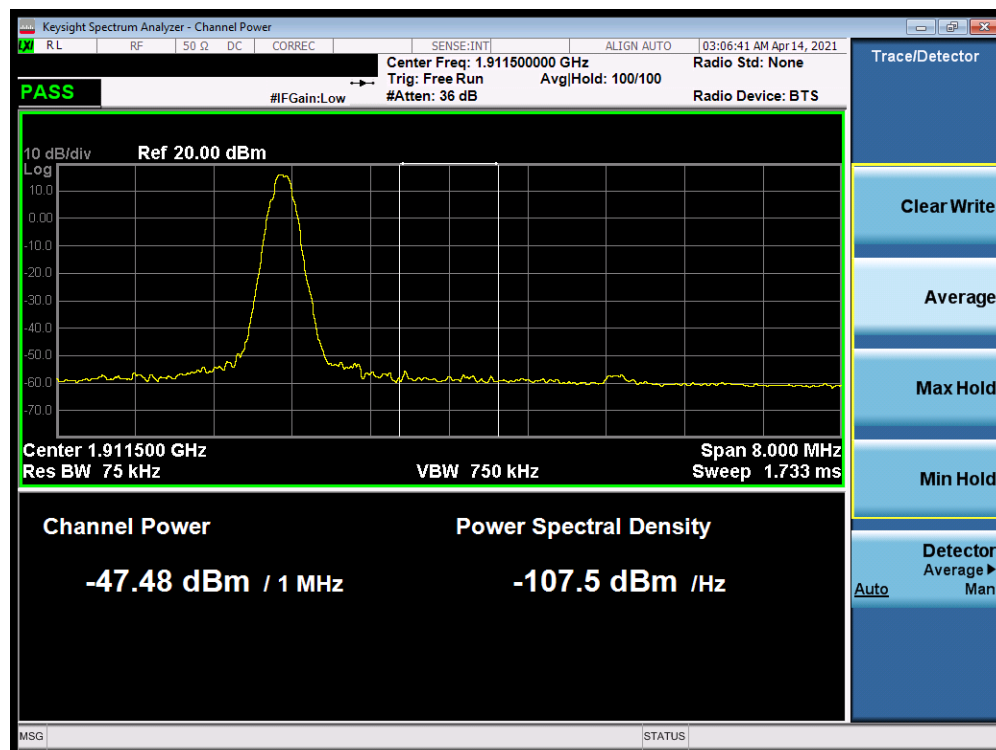


Plot 7-127. Extended Lower Band Edge Plot (GSM PCS – Ch. 512)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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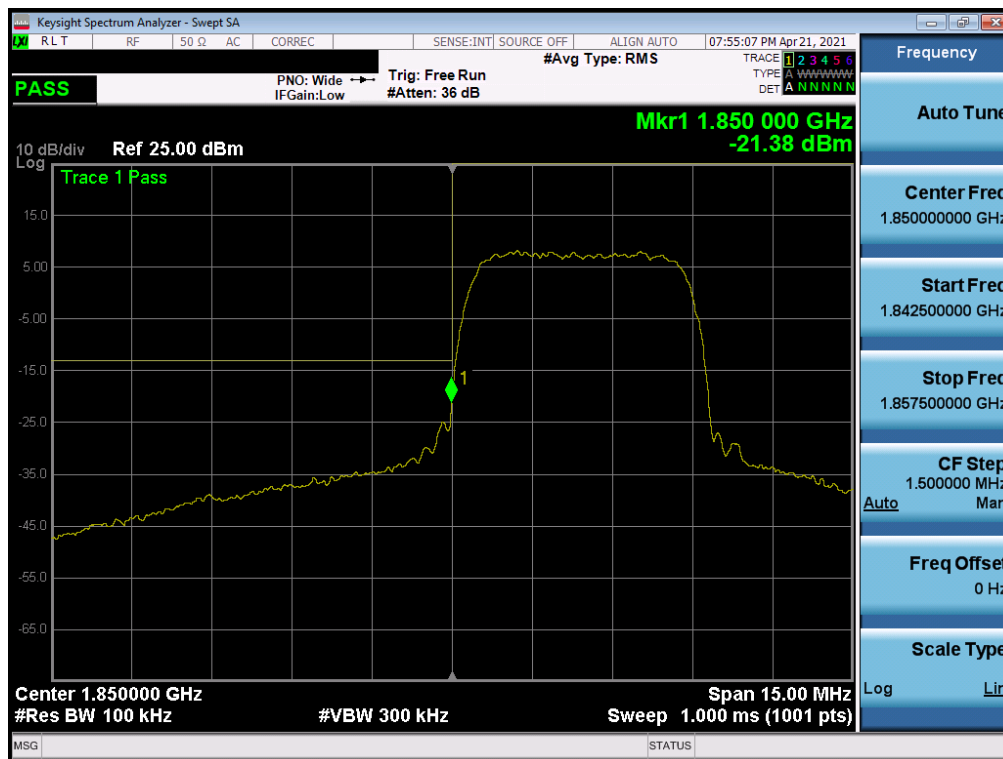
Plot 7-222. Upper Band Edge Plot (GSM PCS – Ch. 810)



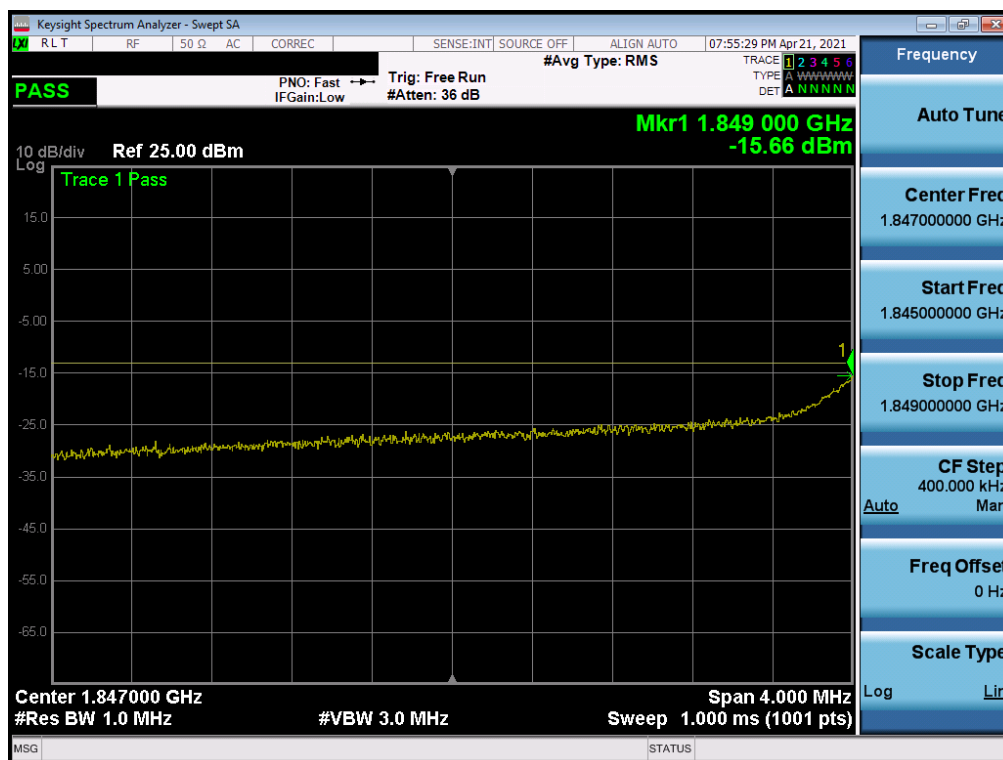
Plot 7-129. Extended Upper Band Edge Plot (GSM PCS – Ch. 810)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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WCDMA PCS



Plot 7-223. Lower Band Edge Plot (WCDMA PCS – Ch. 9262)

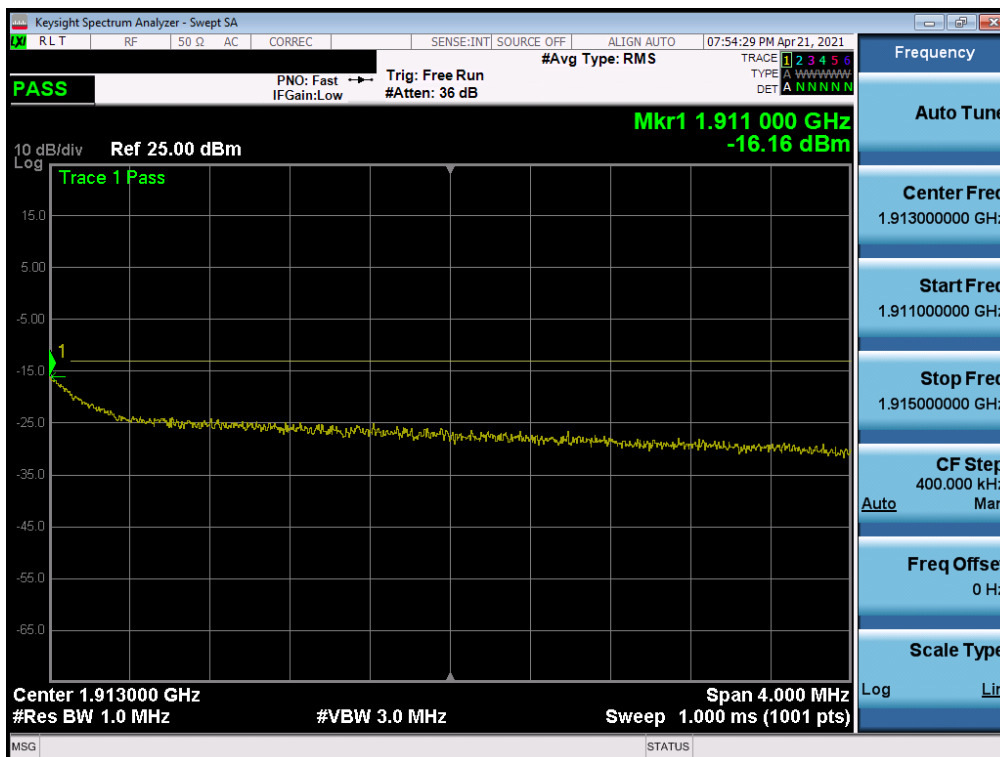


Plot 7-224. Extended Lower Band Edge Plot (WCDMA PCS – Ch. 9262)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 135 of 203



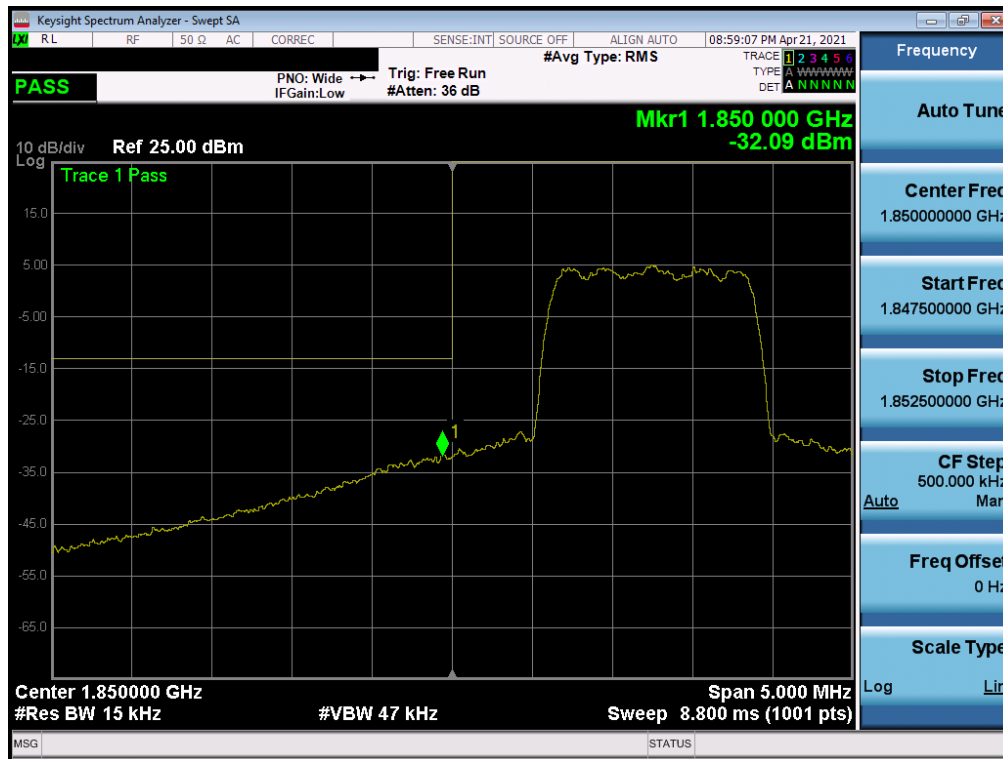
Plot 7-225. Upper Band Edge Plot (WCDMA PCS – Ch. 9538)



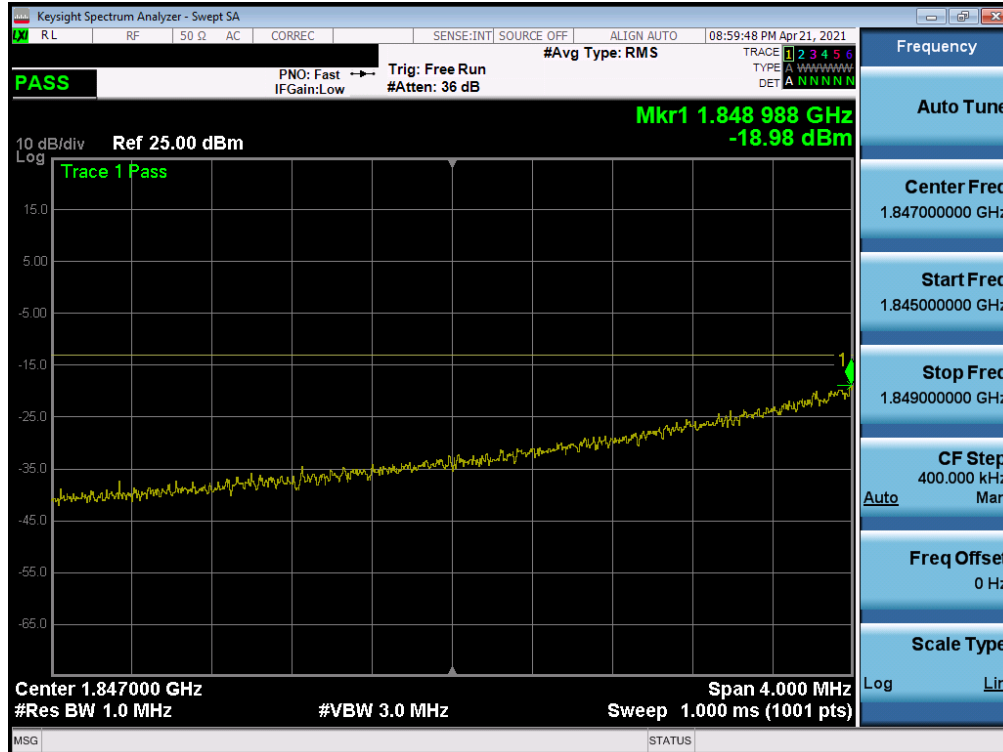
Plot 7-226. Extended Upper Band Edge Plot (WCDMA PCS – Ch. 9538)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 136 of 203

CDMA PCS



Plot 7-227. Lower Band Edge Plot (CDMA PCS – Ch. 25)

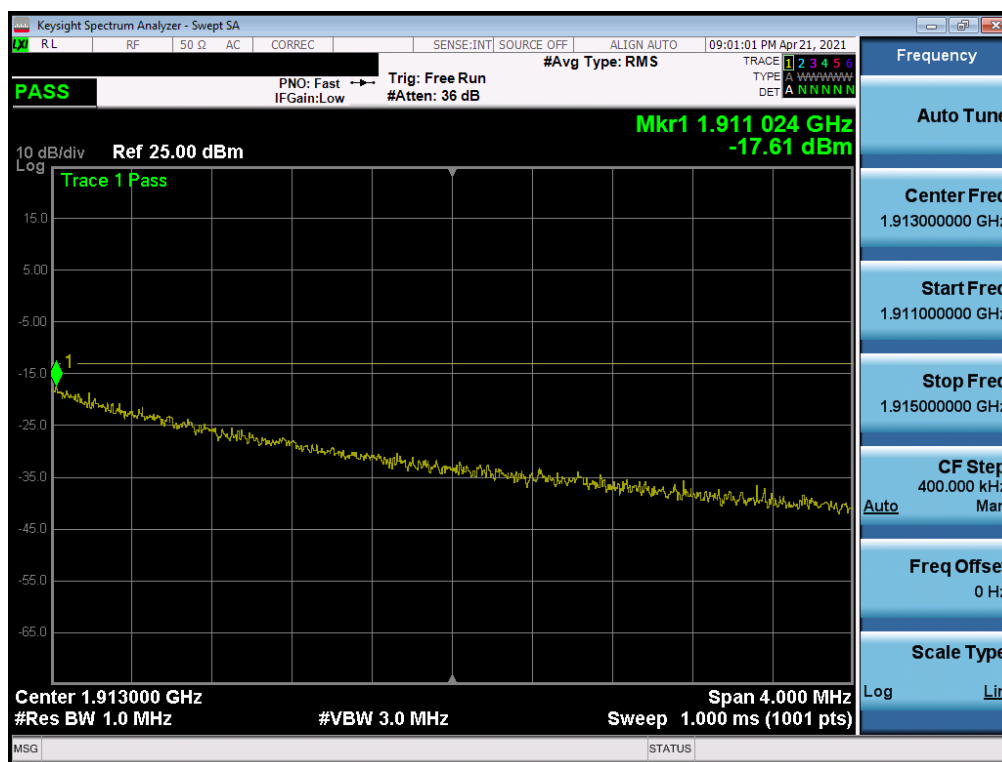


Plot 7-228. Extended Lower Band Edge Plot (CDMA PCS – Ch. 25)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-229. Upper Band Edge Plot (CDMA PCS – Ch. 1175)



Plot 7-230. Extended Upper Band Edge Plot (CDMA PCS – Ch. 1175)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.5 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 $\geq$ 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.

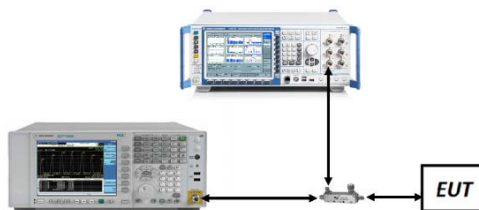


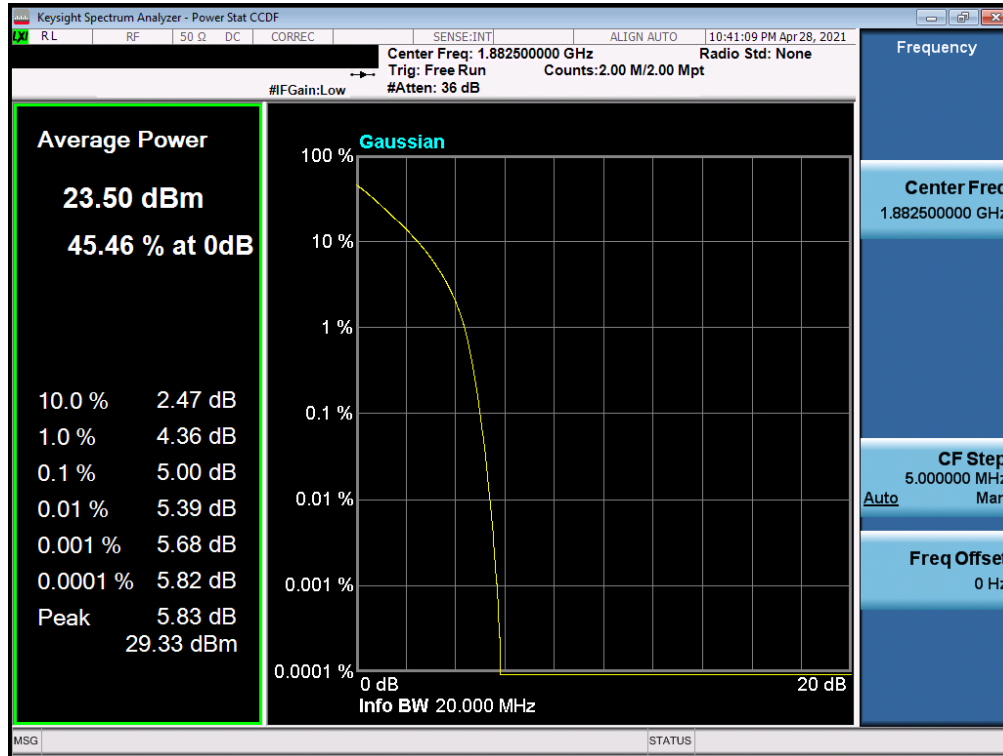
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

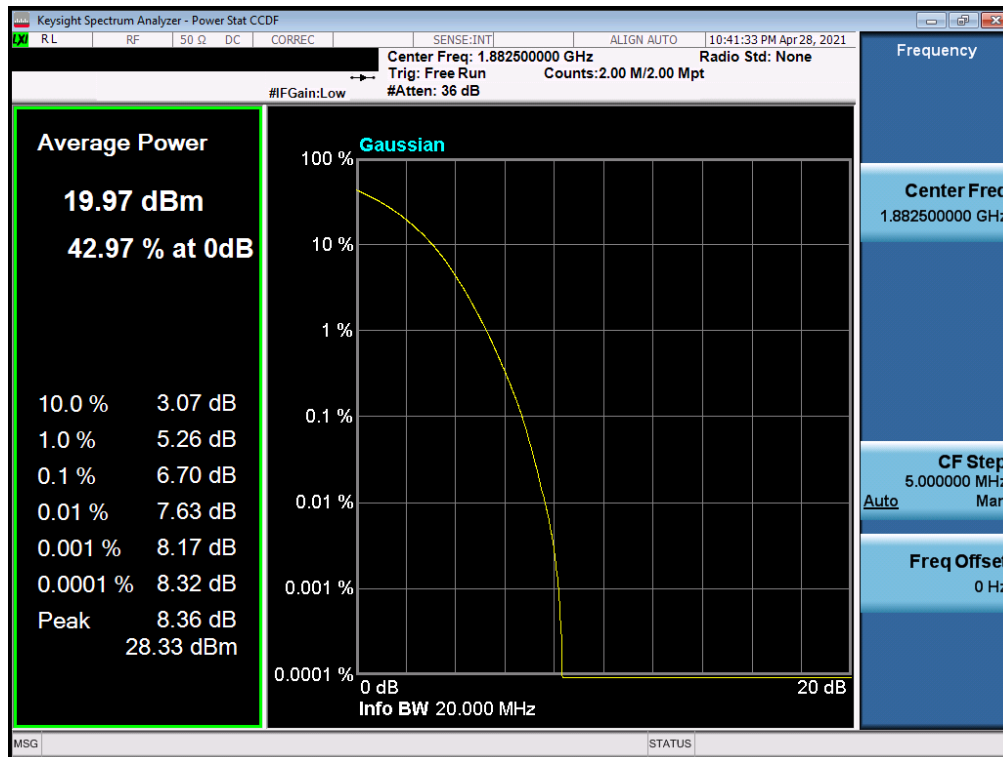
Among the PAR measurements for 16QAM, 64QAM, and 256QAM, it was determined that 256QAM exhibited the highest PAR.

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LTE Band 25/2

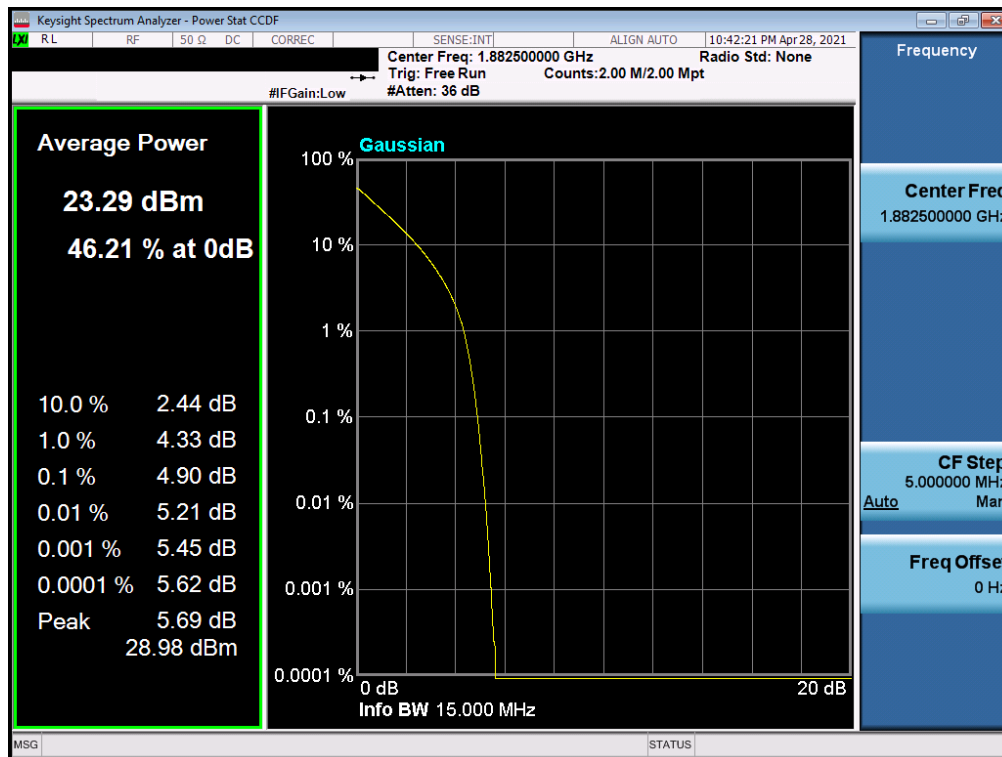


Plot 7-231. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB)

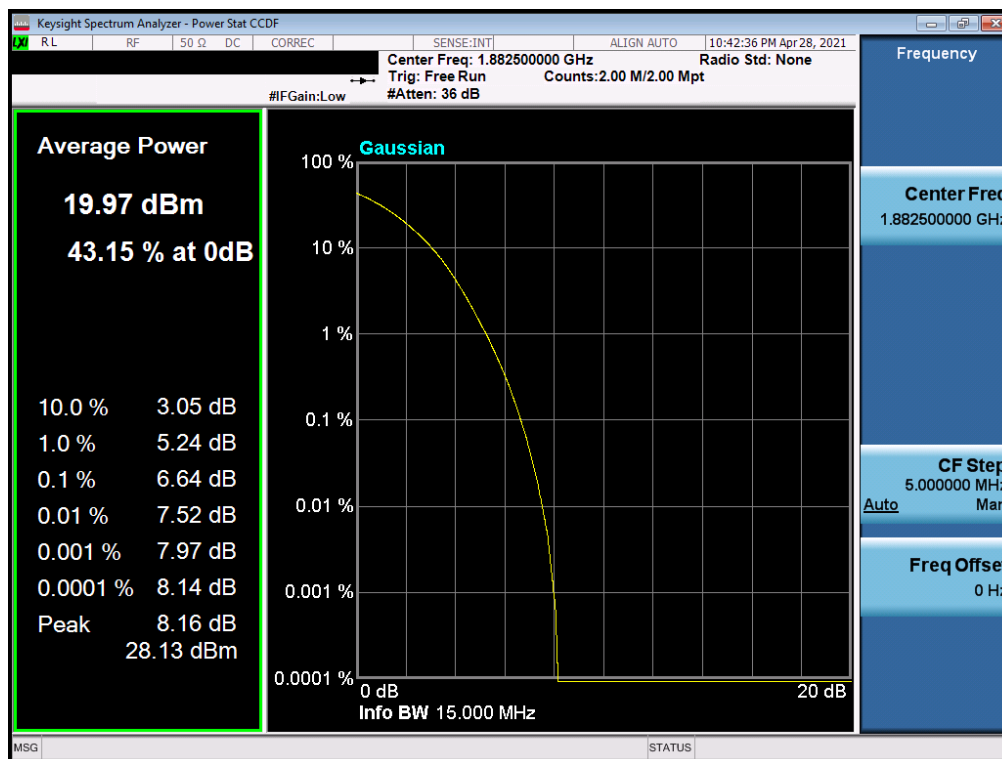


Plot 7-232. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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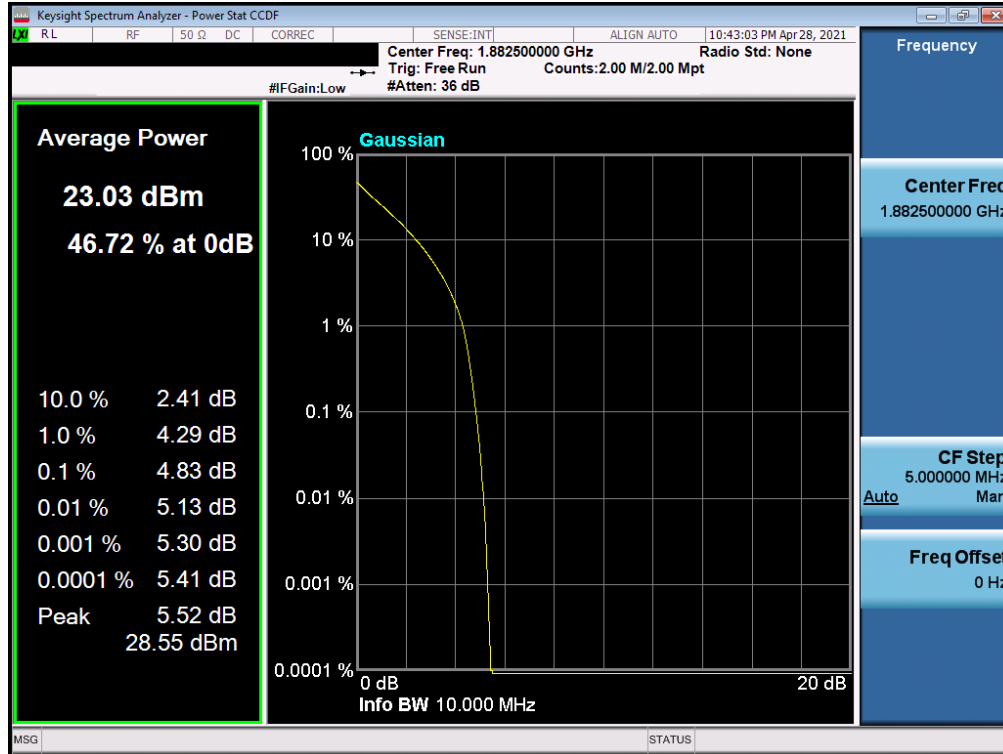


Plot 7-233. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB)

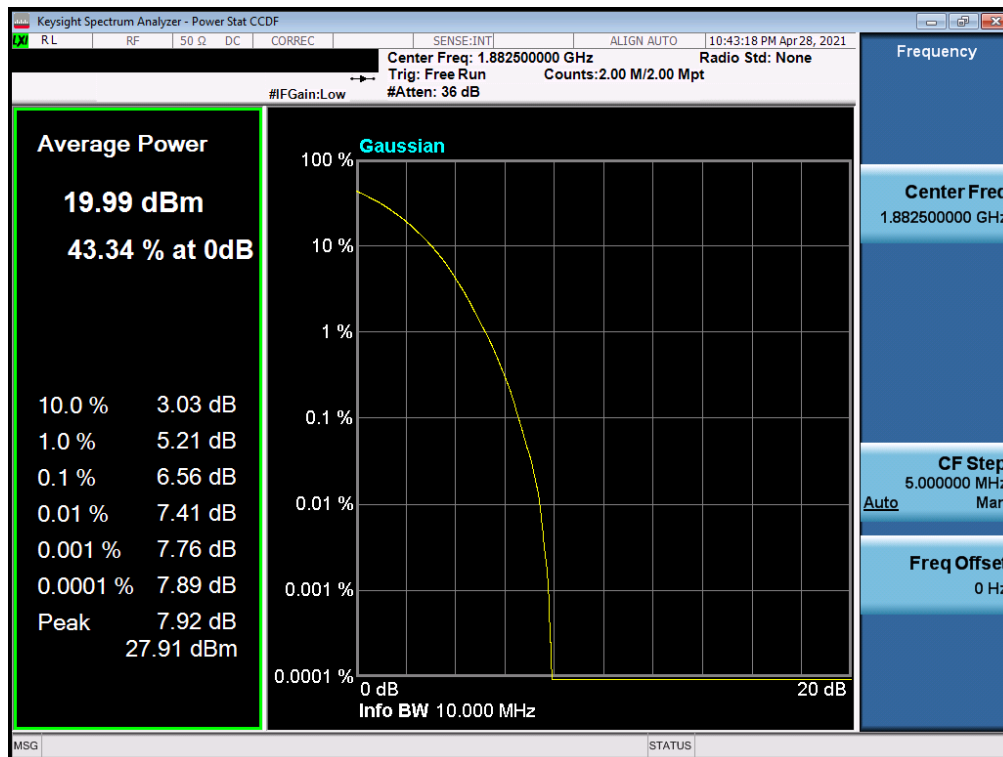


Plot 7-234. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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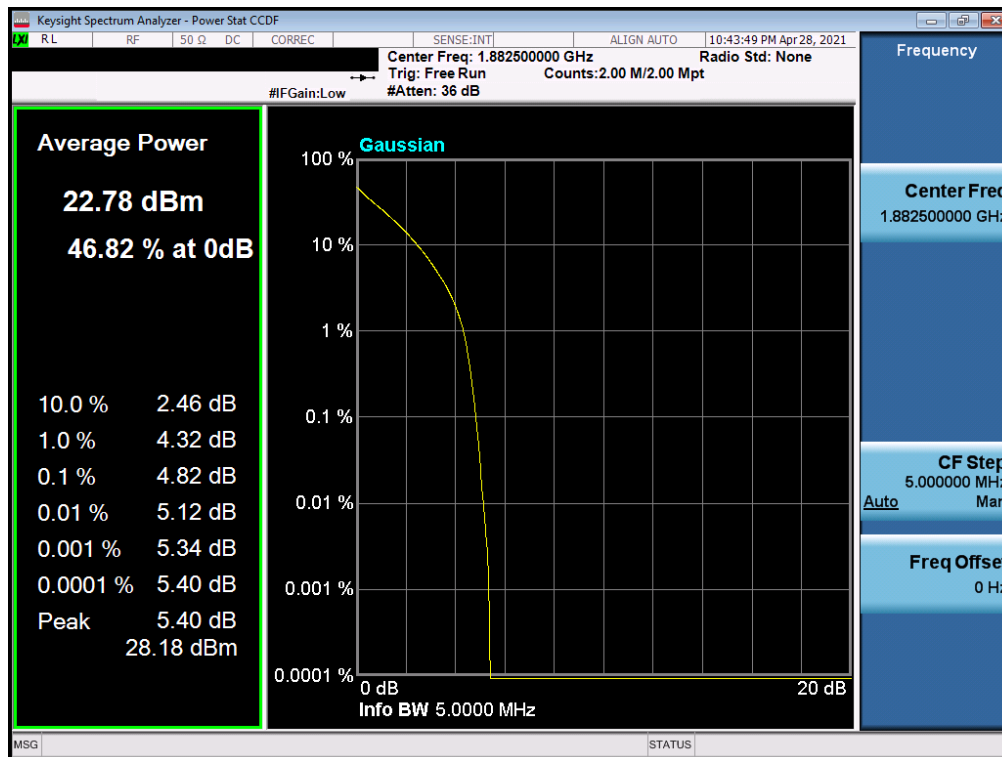


Plot 7-235. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB)

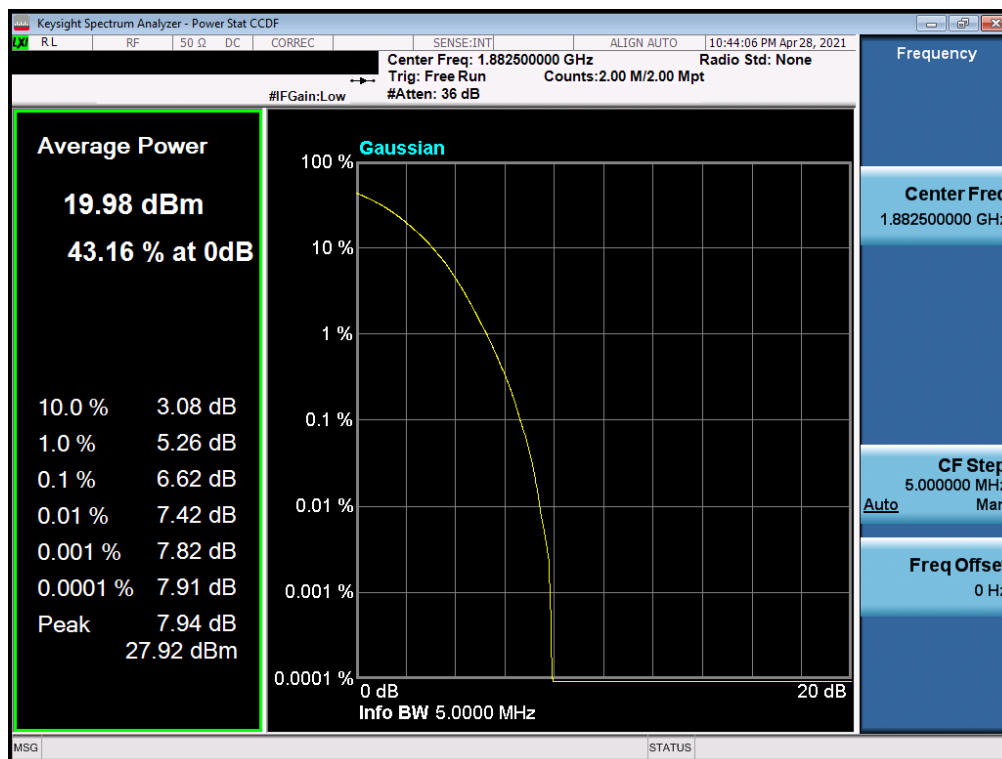


Plot 7-236. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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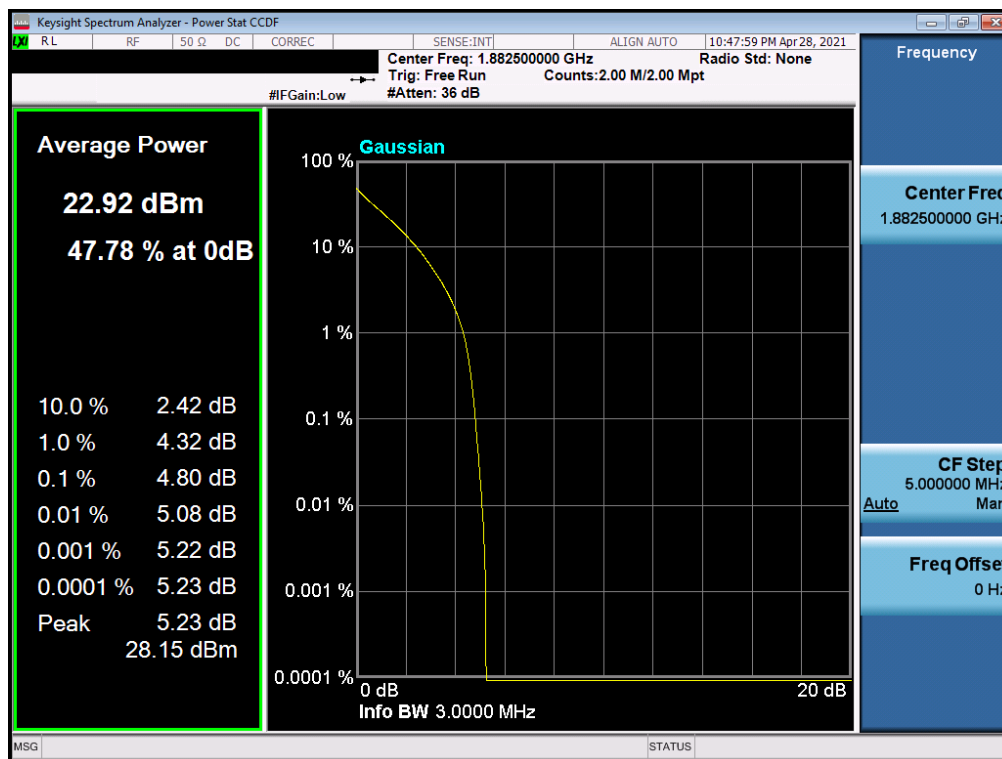


Plot 7-237. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB)

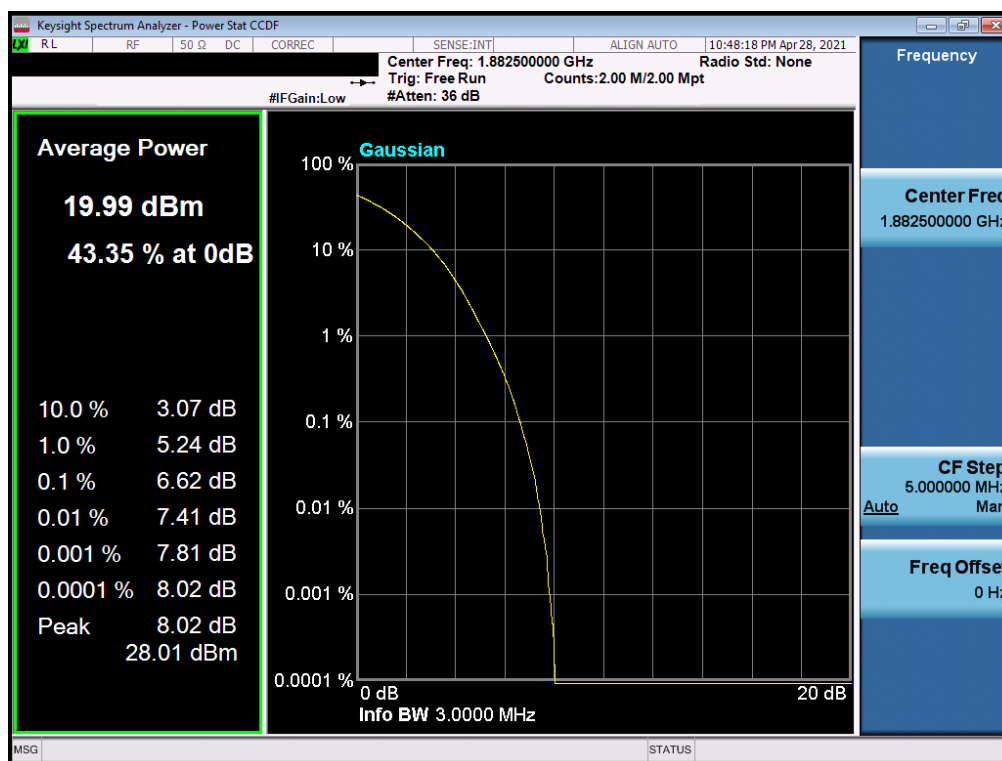


Plot 7-238. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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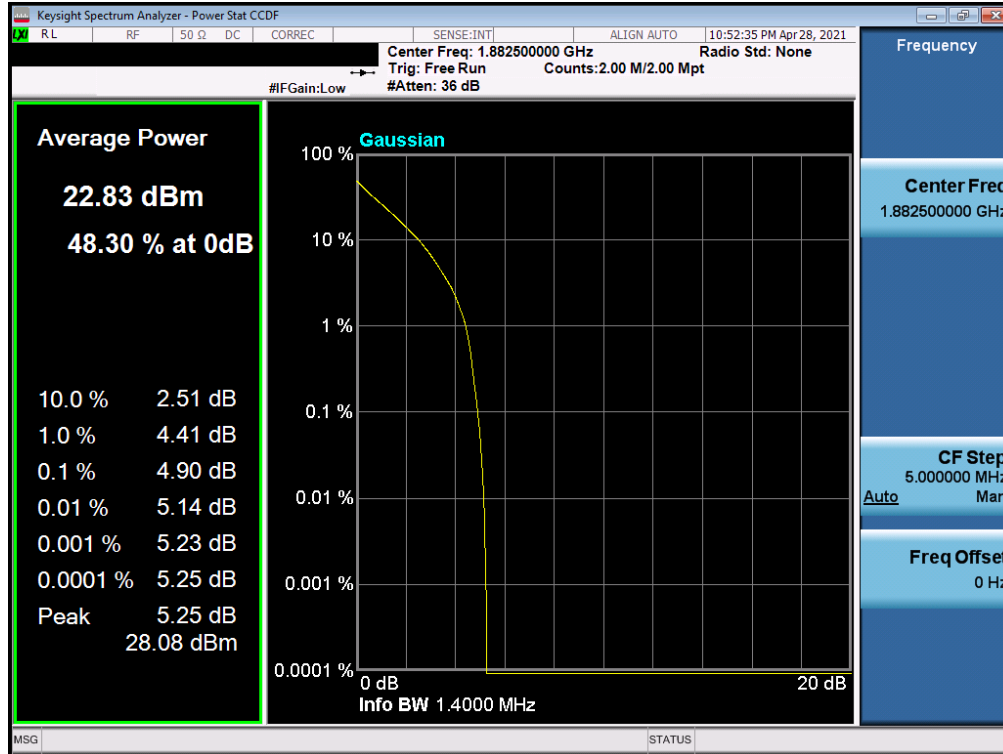


Plot 7-239. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB)

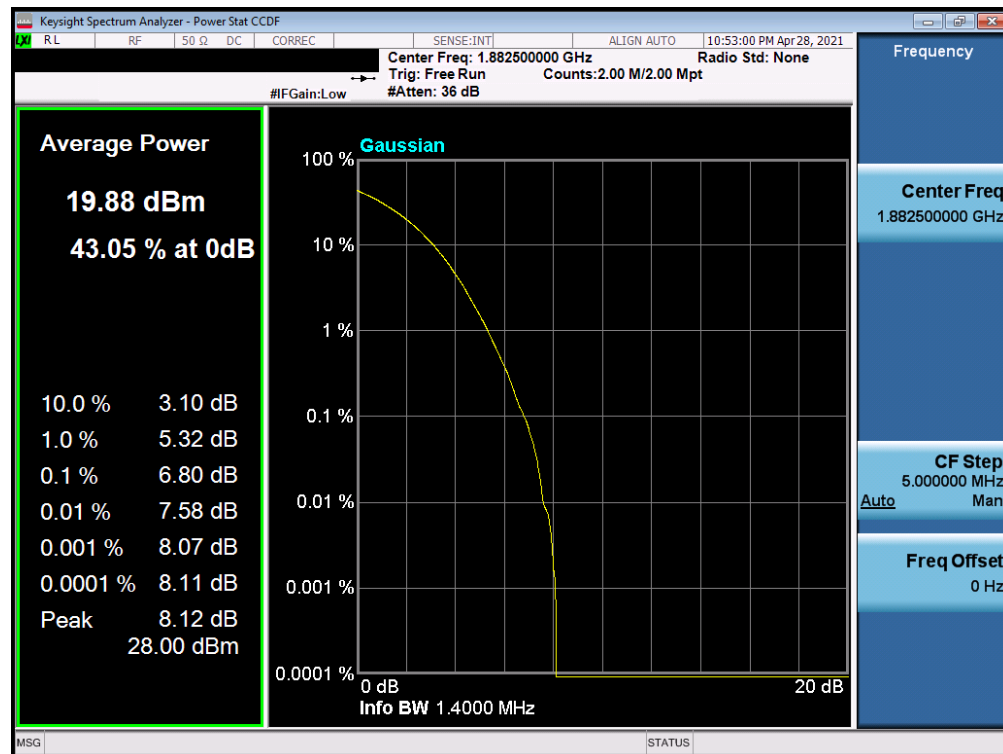


Plot 7-240. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-241. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB)



Plot 7-242. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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n25/2- Ant A



Plot 7-243. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB)

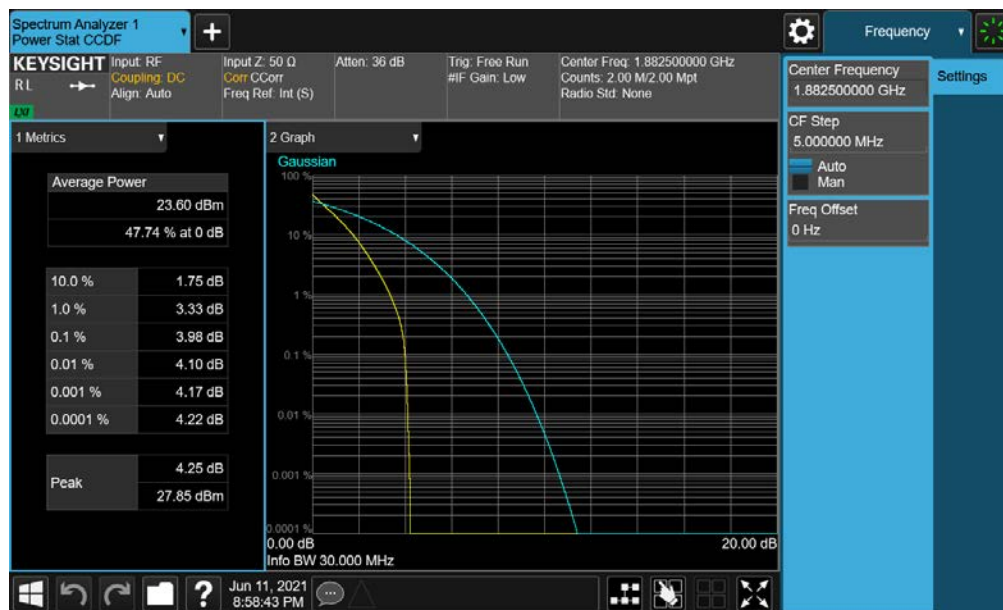


Plot 7-244. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-245. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 256-QAM - Full RB)

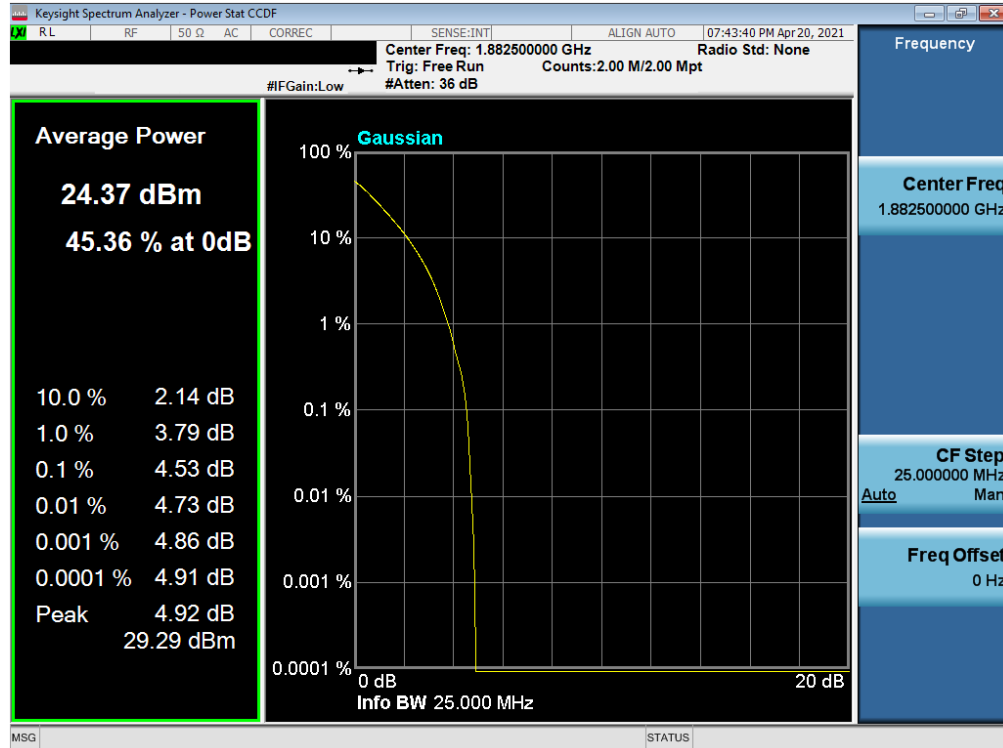


Plot 7-246. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB)

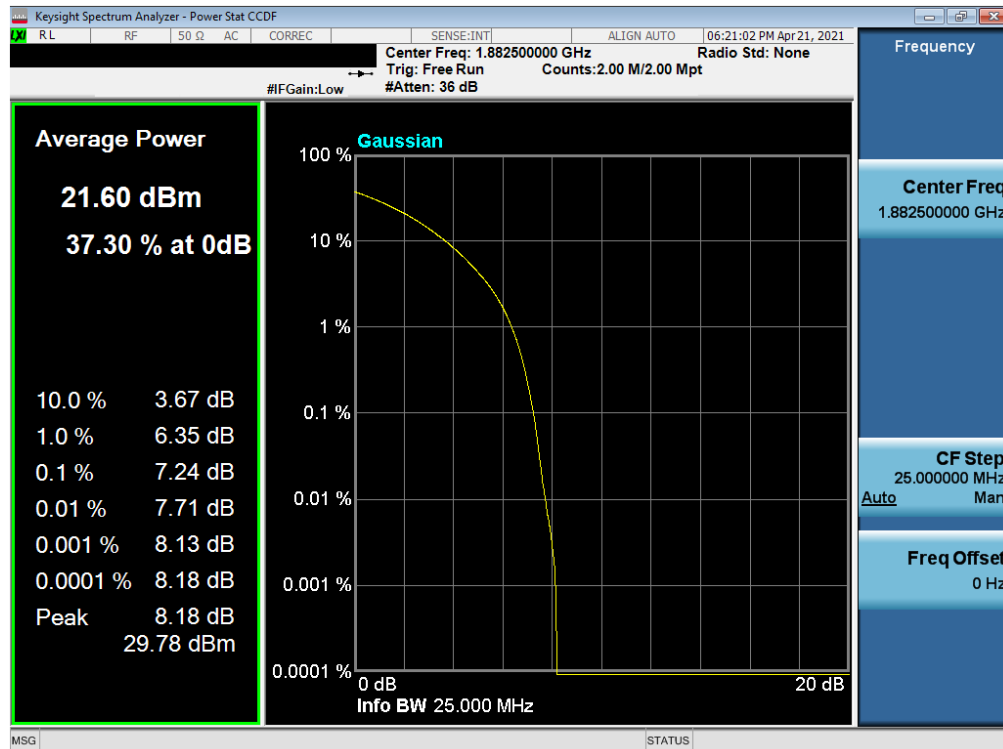
FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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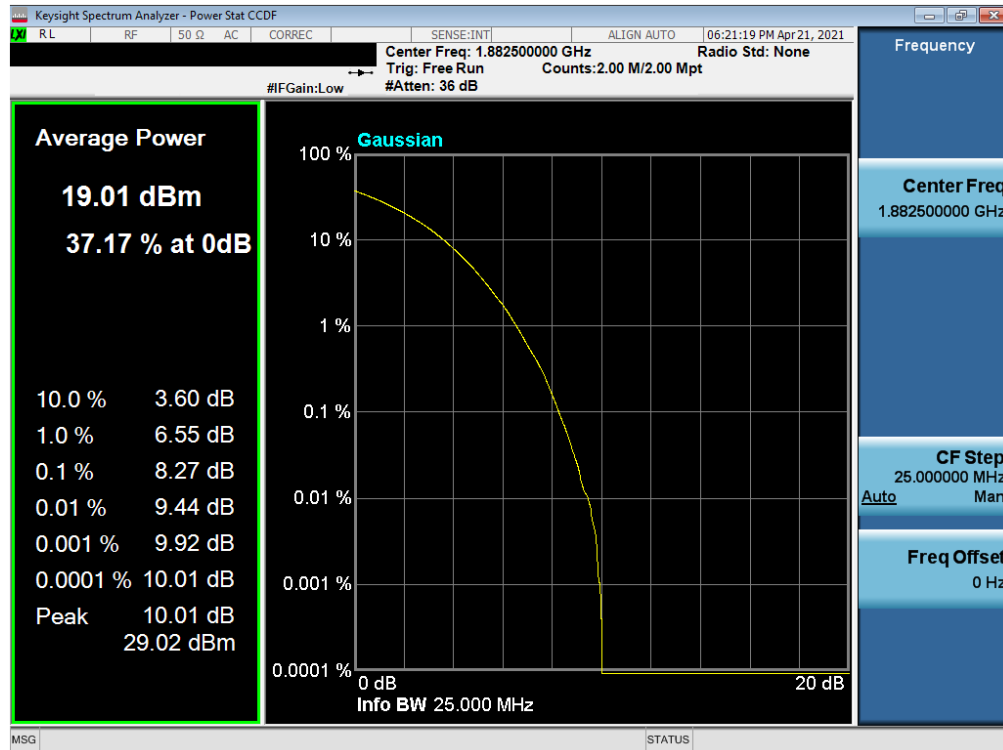


Plot 7-249. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-250. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB)

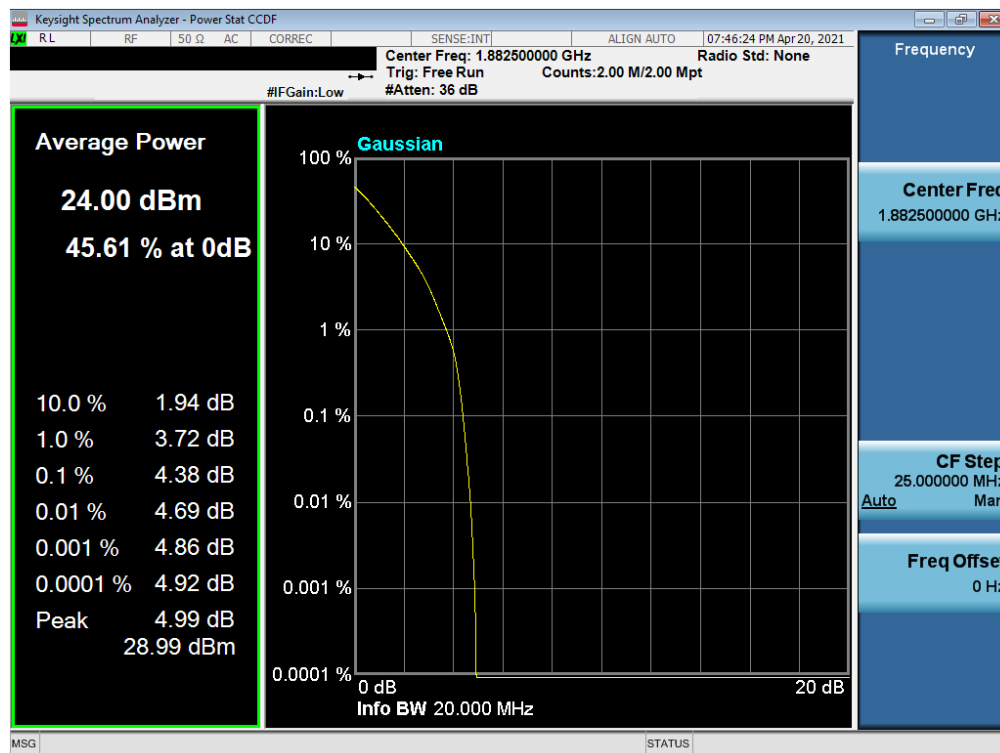
FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 149 of 203



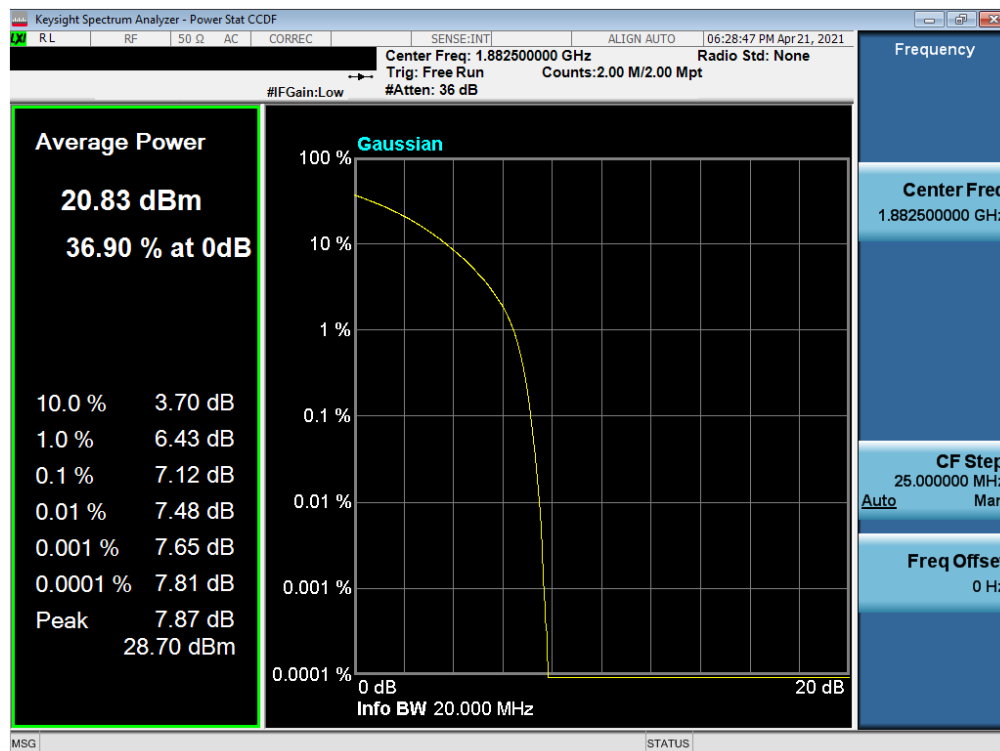
Plot 7-251. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF711U1		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 150 of 203

NR Band n25/2 – Ant A

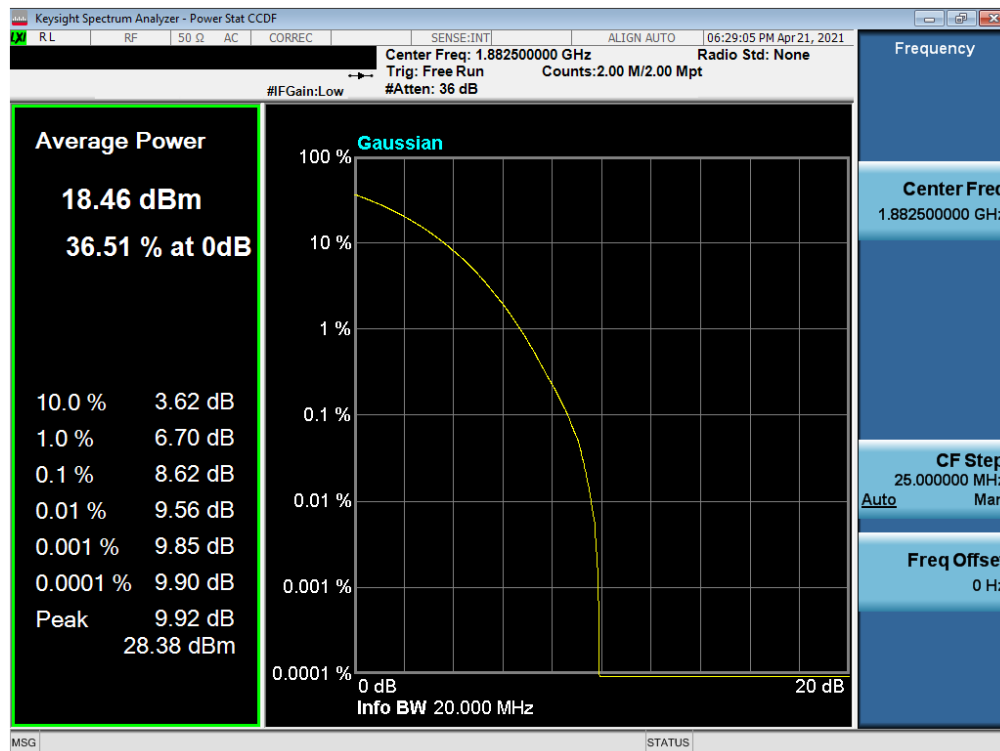


Plot 7-252. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

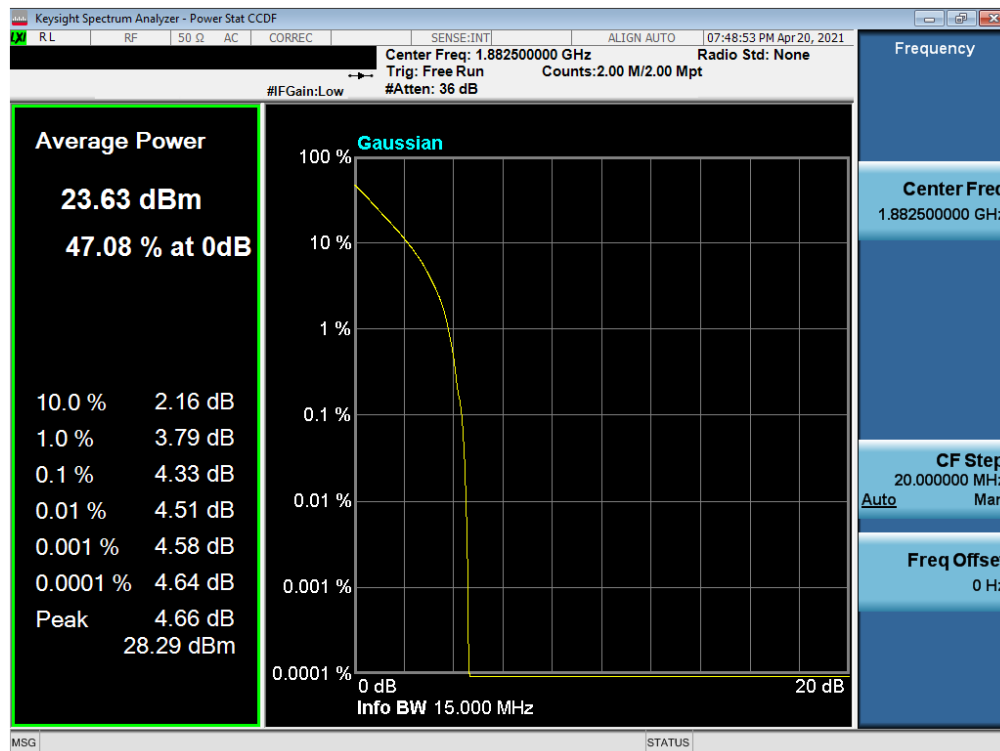


Plot 7-253. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of Element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 151 of 203

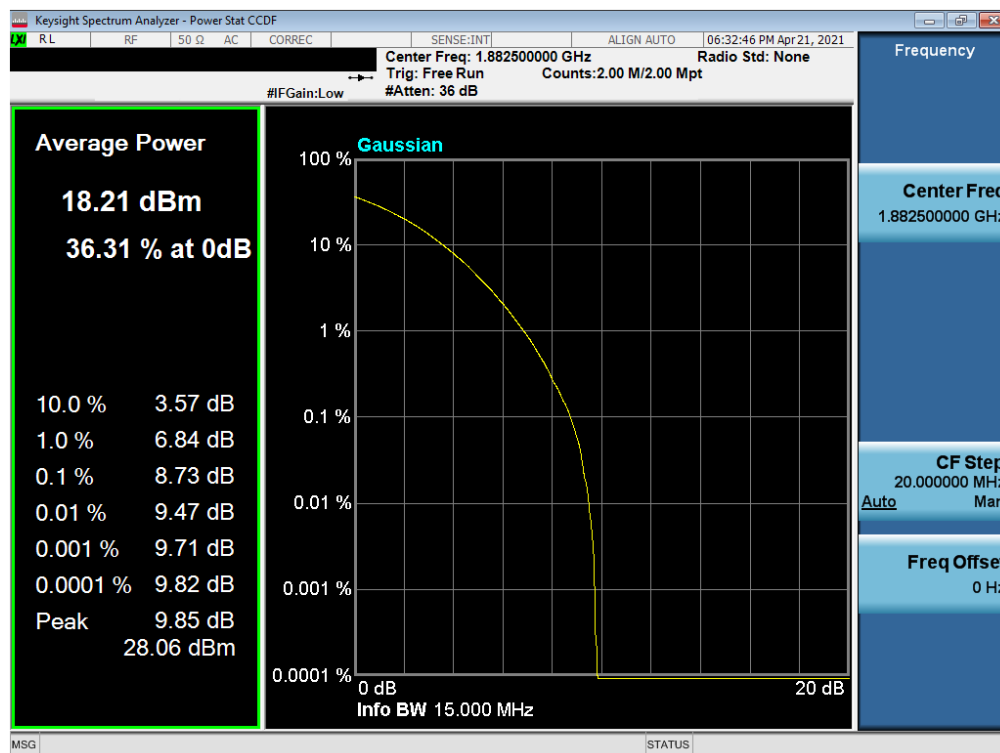
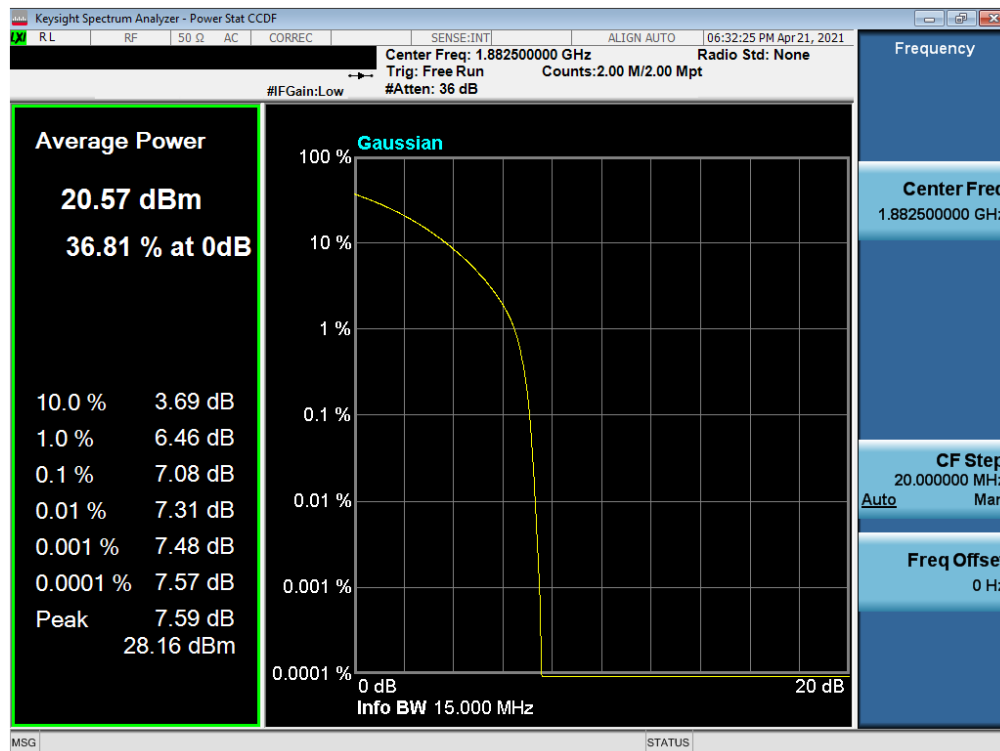


Plot 7-254. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB)

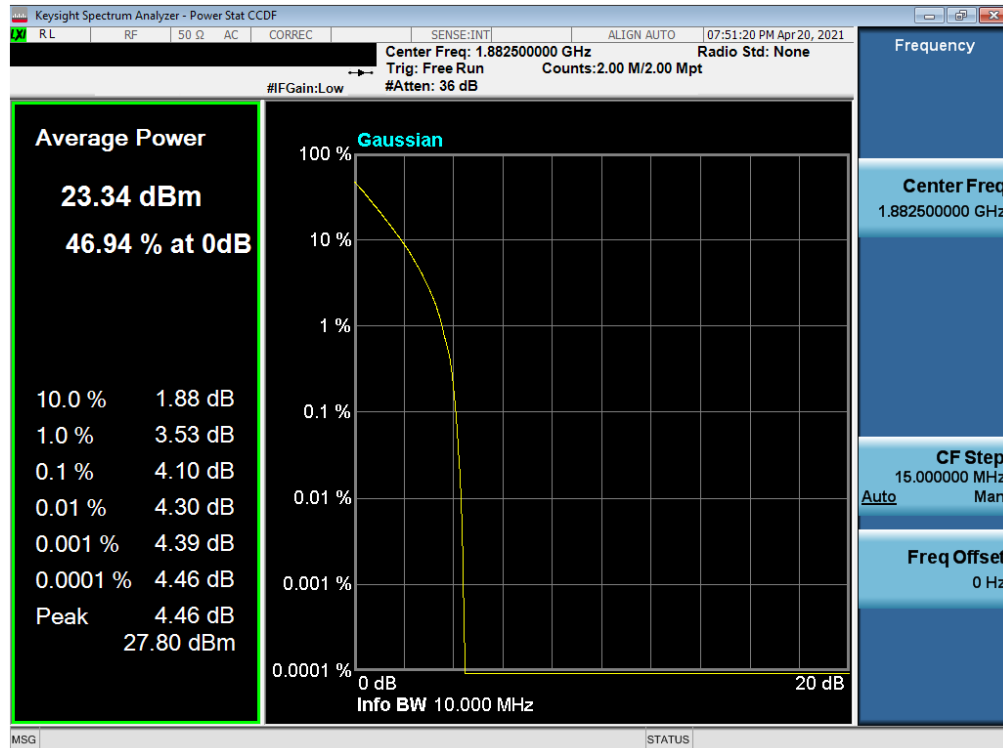


Plot 7-255. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

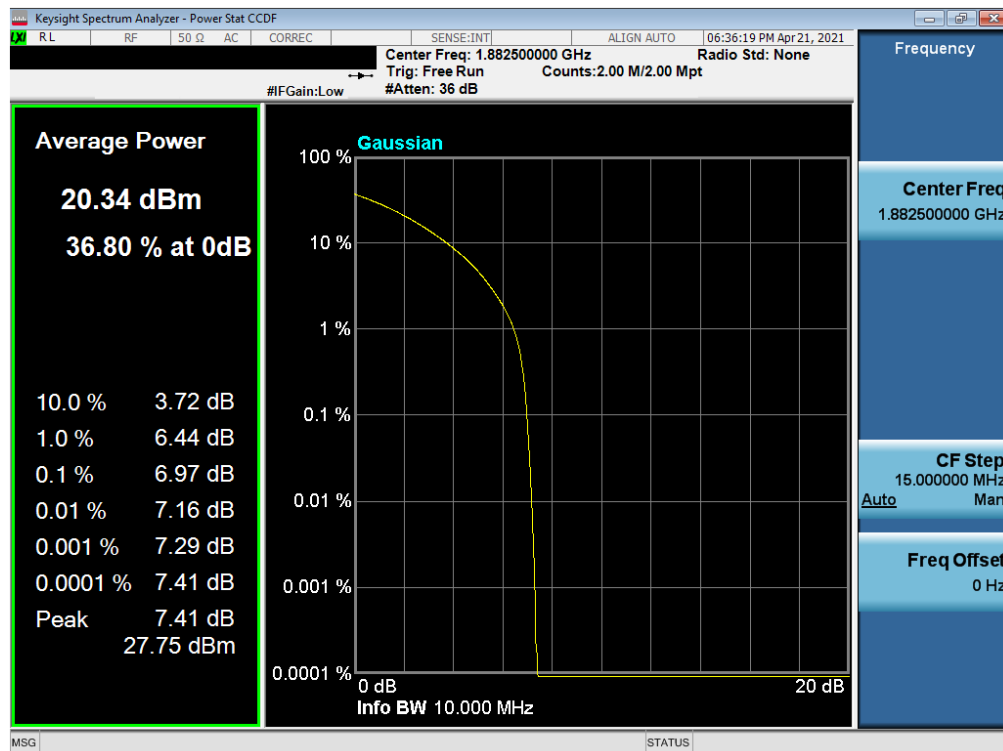
FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 152 of 203



FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 153 of 203

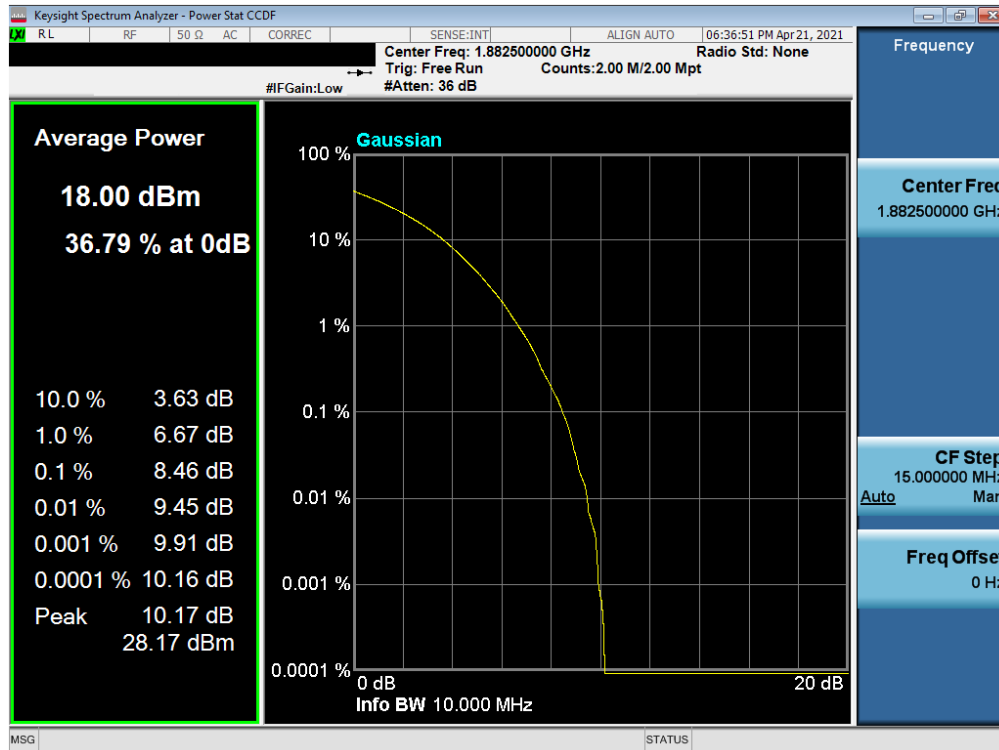


Plot 7-258. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

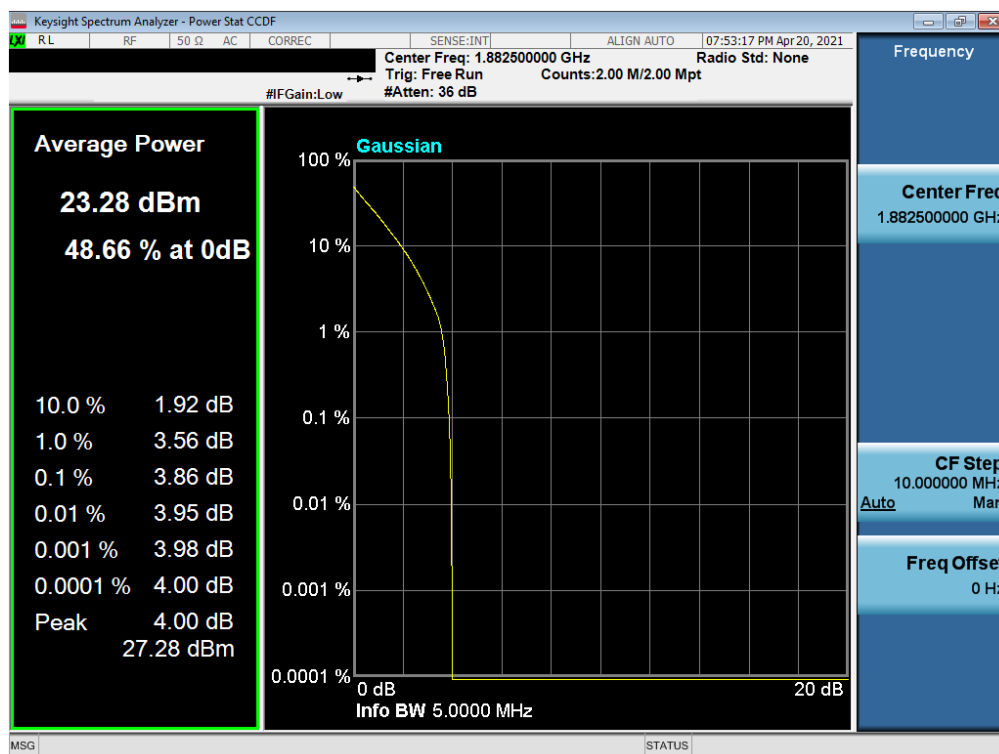


Plot 7-259. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 154 of 203

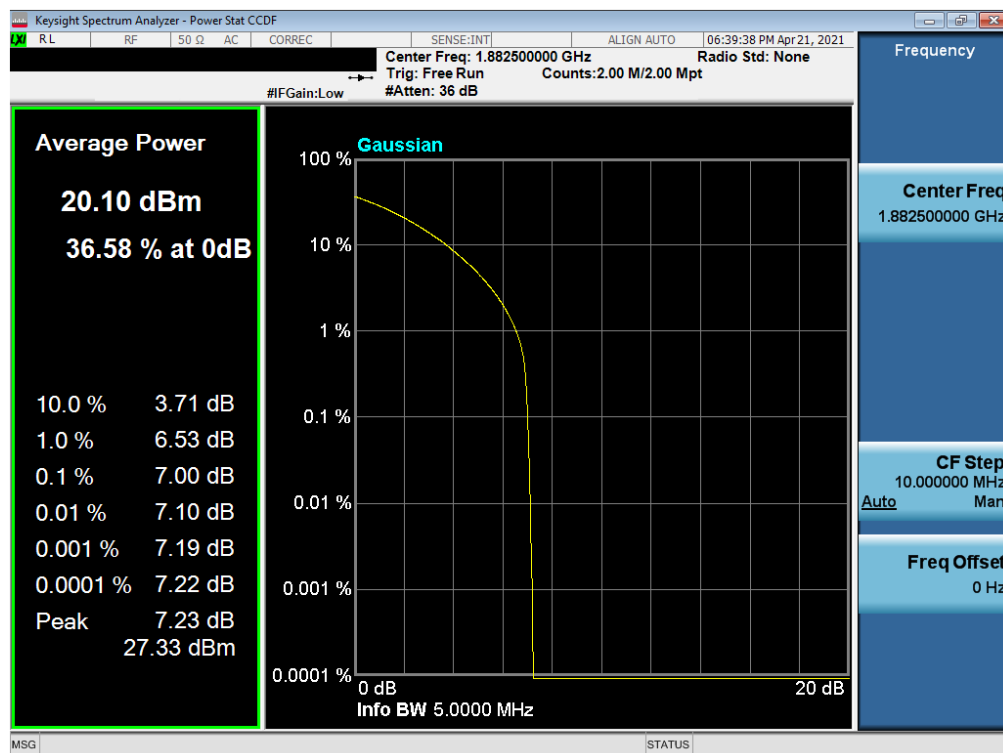


Plot 7-260. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB)

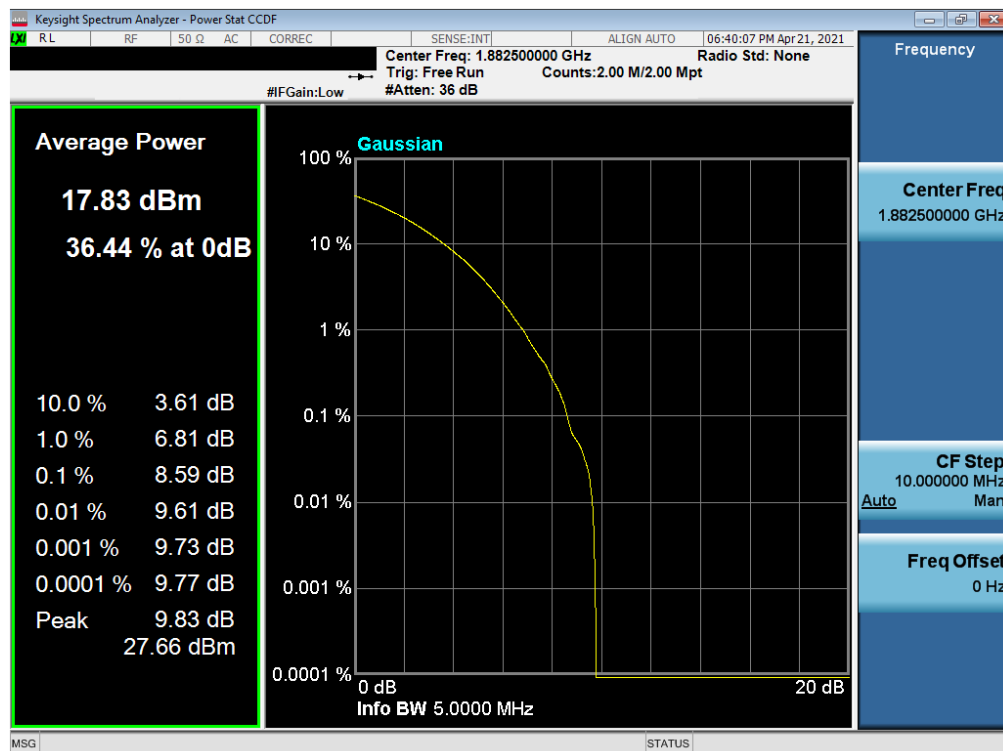


Plot 7-261. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 155 of 203



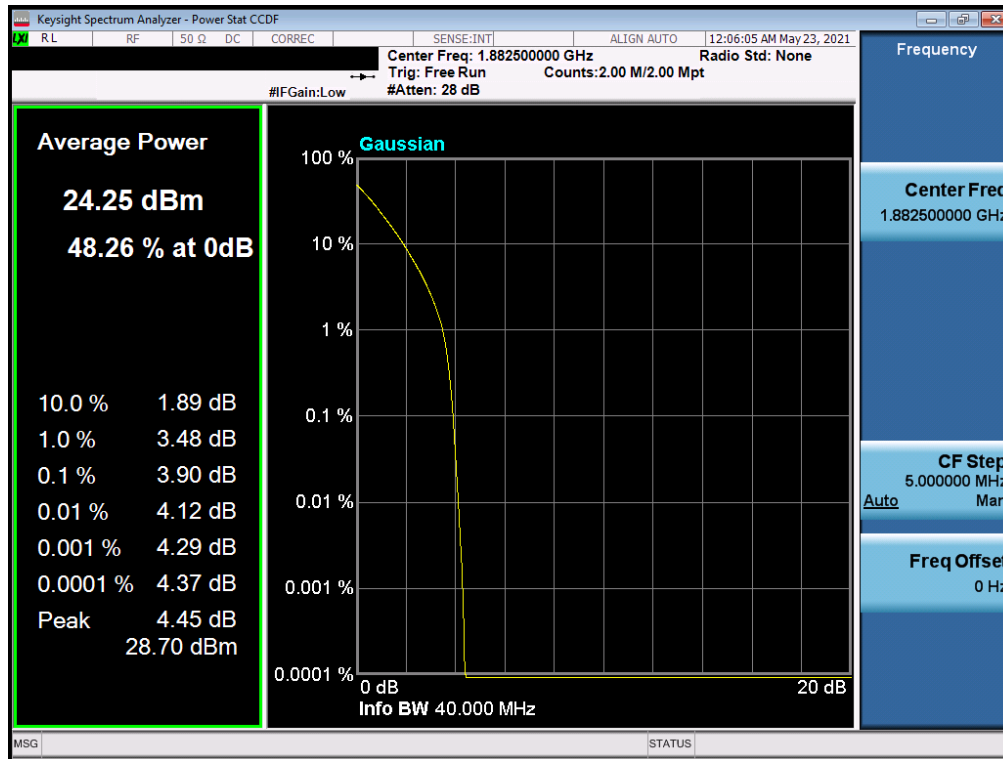
Plot 7-262. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB)



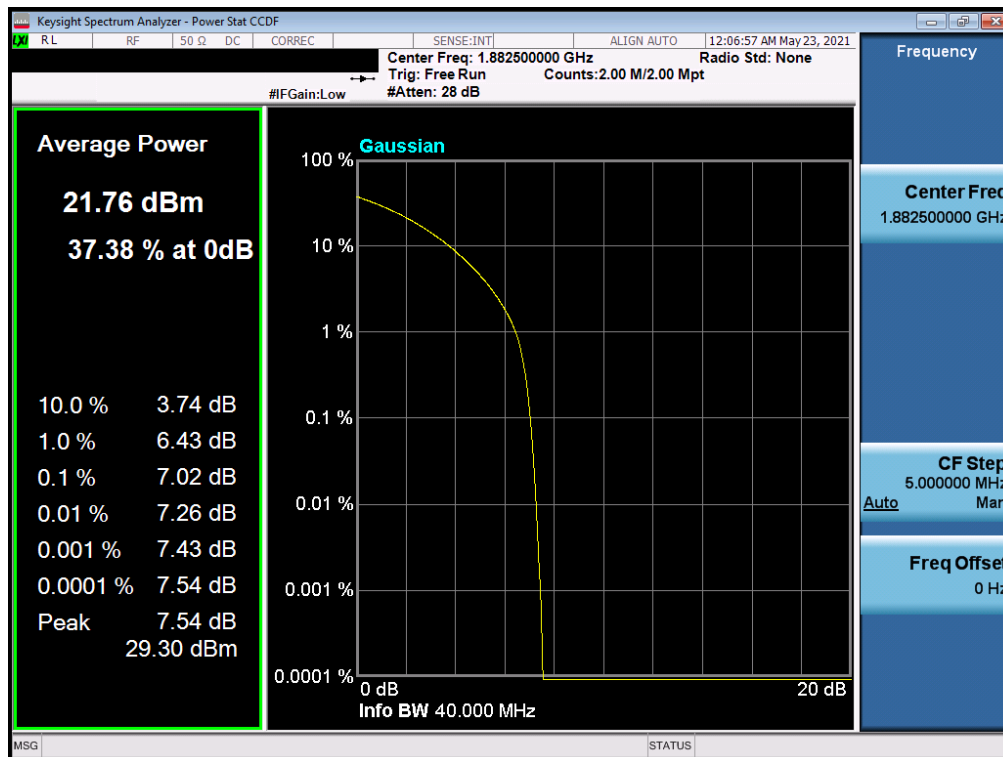
Plot 7-263. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 156 of 203

NR Band n25 – Ant I

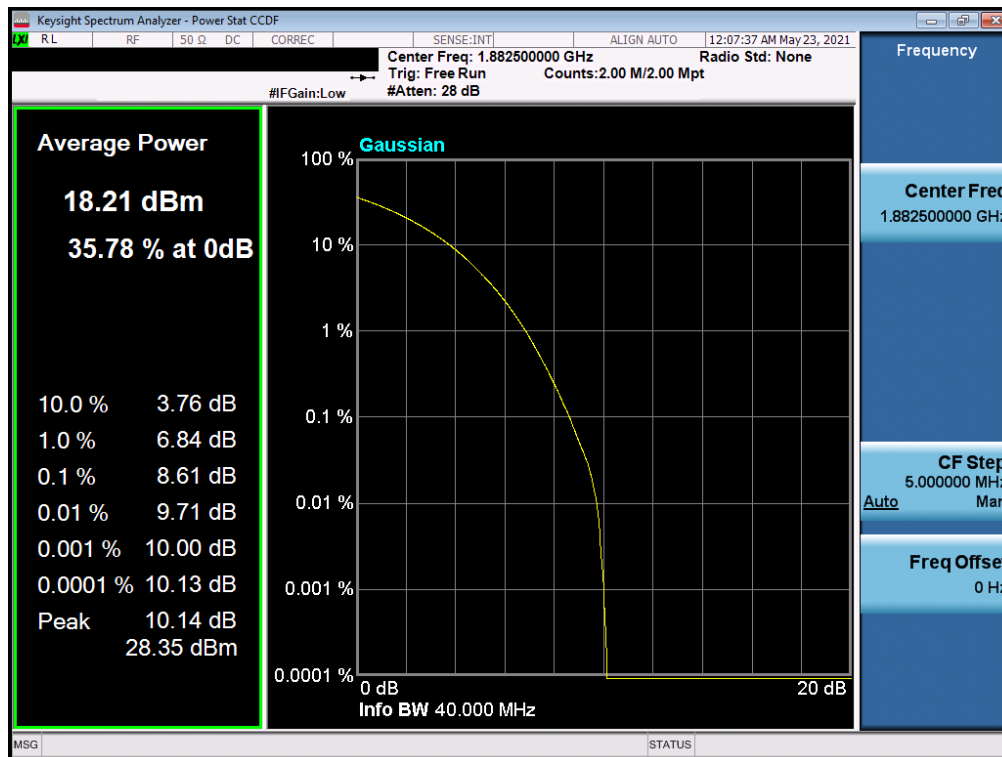


Plot 7-264. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB)

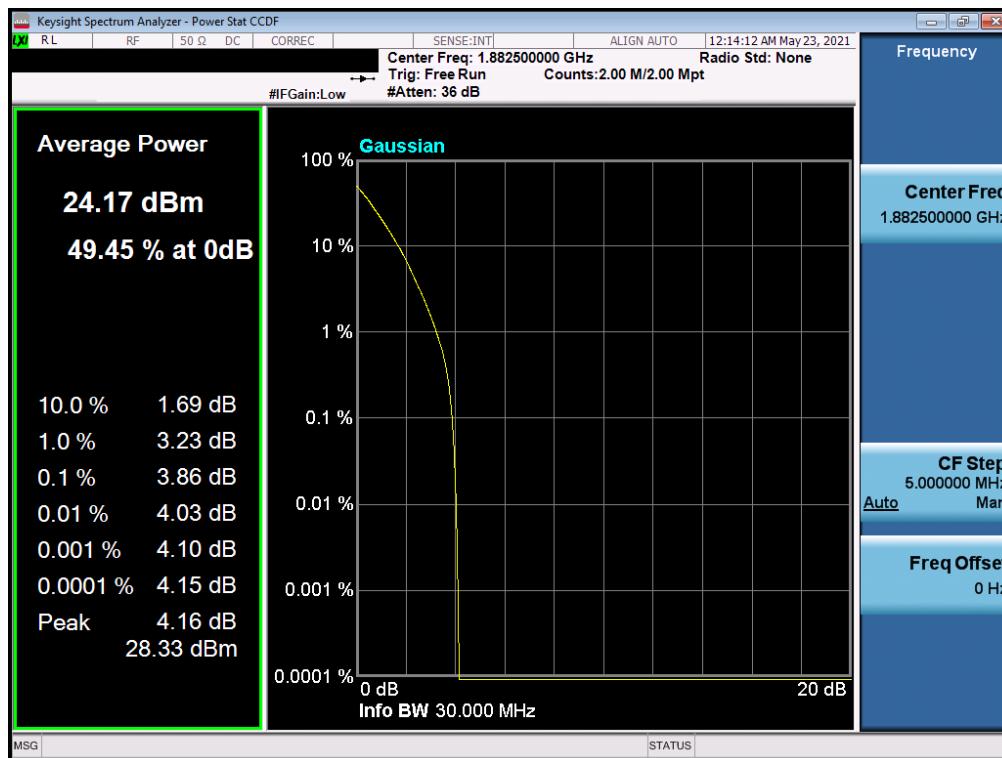


Plot 7-265. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of Element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 157 of 203

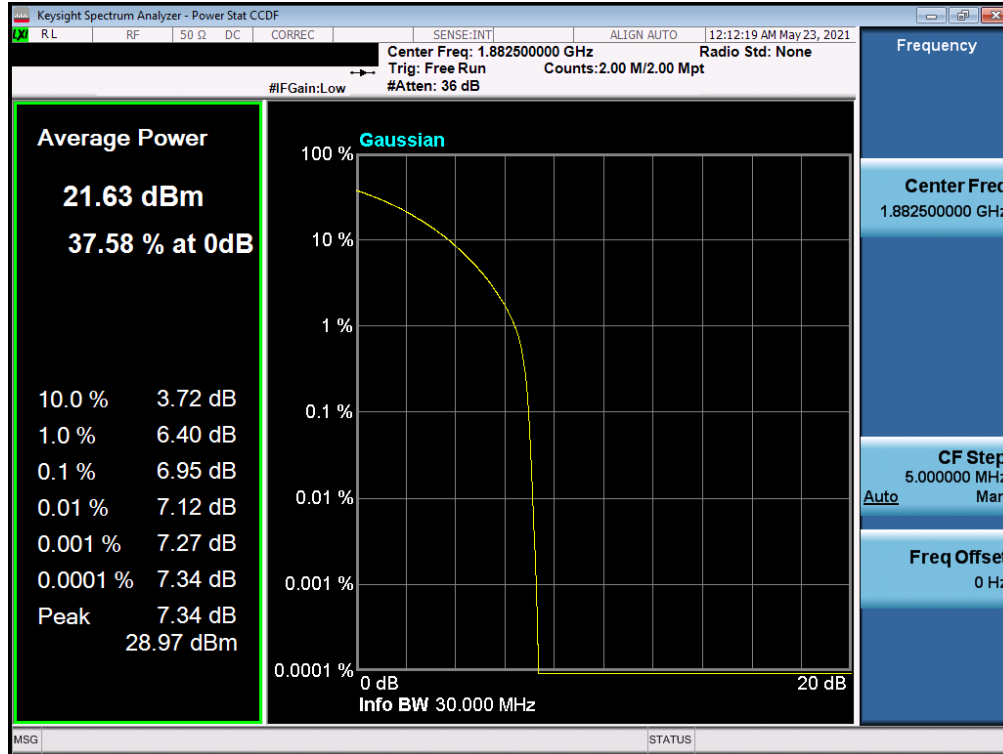


Plot 7-266. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 256-QAM - Full RB)

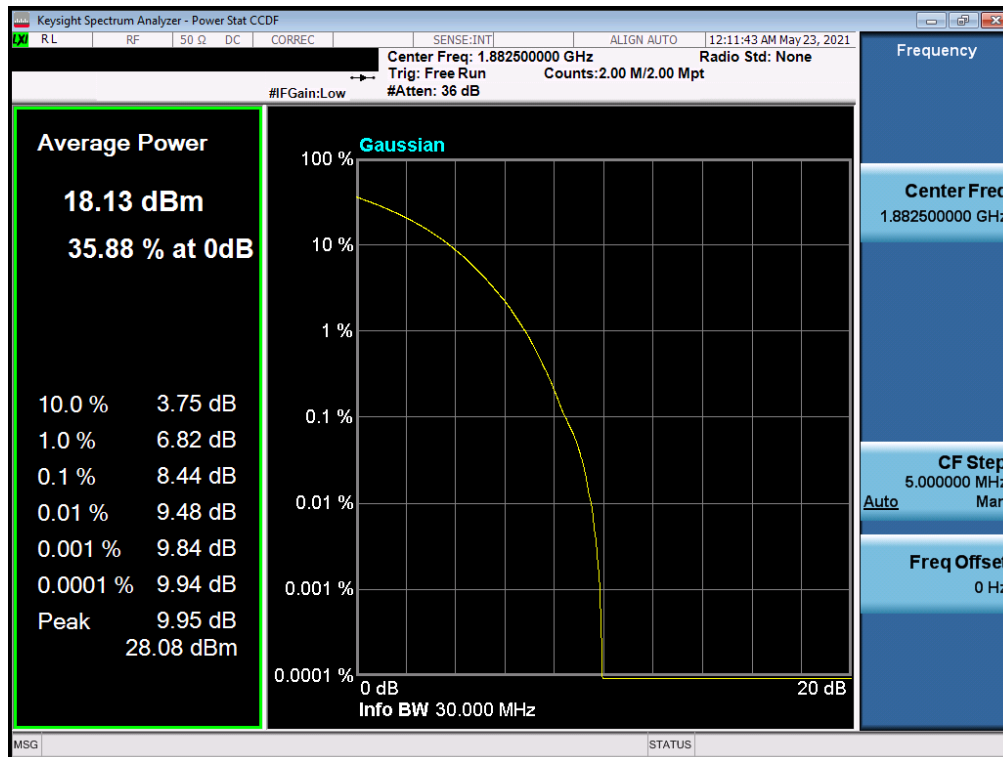


Plot 7-267. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 158 of 203

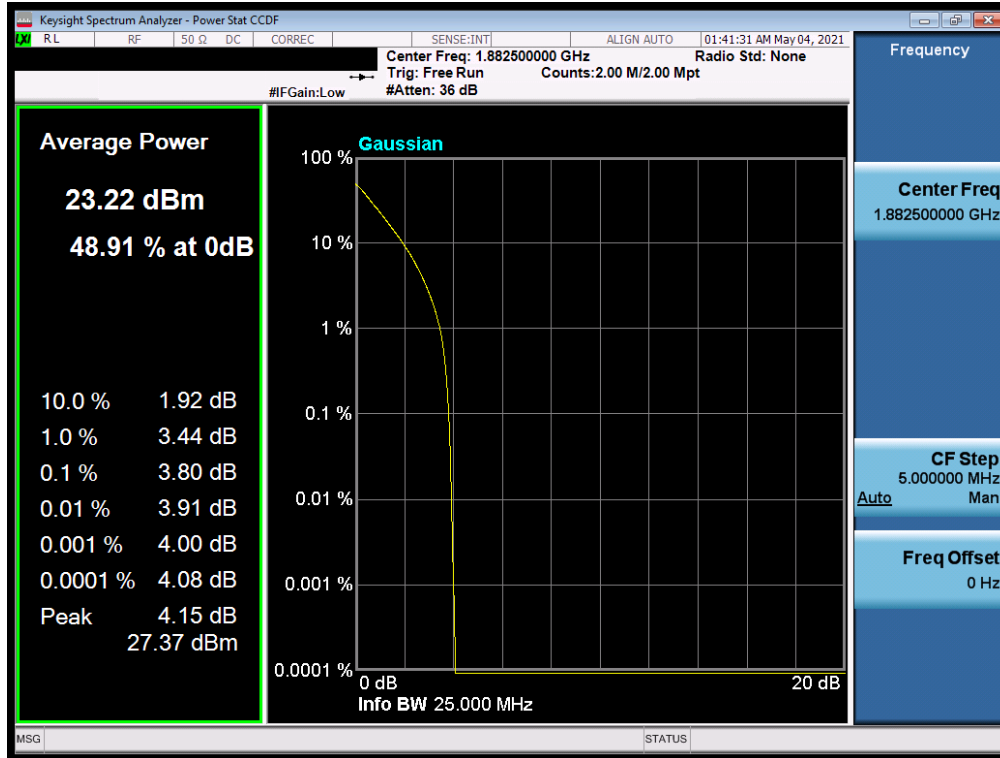


Plot 7-268. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM QPSK - Full RB)

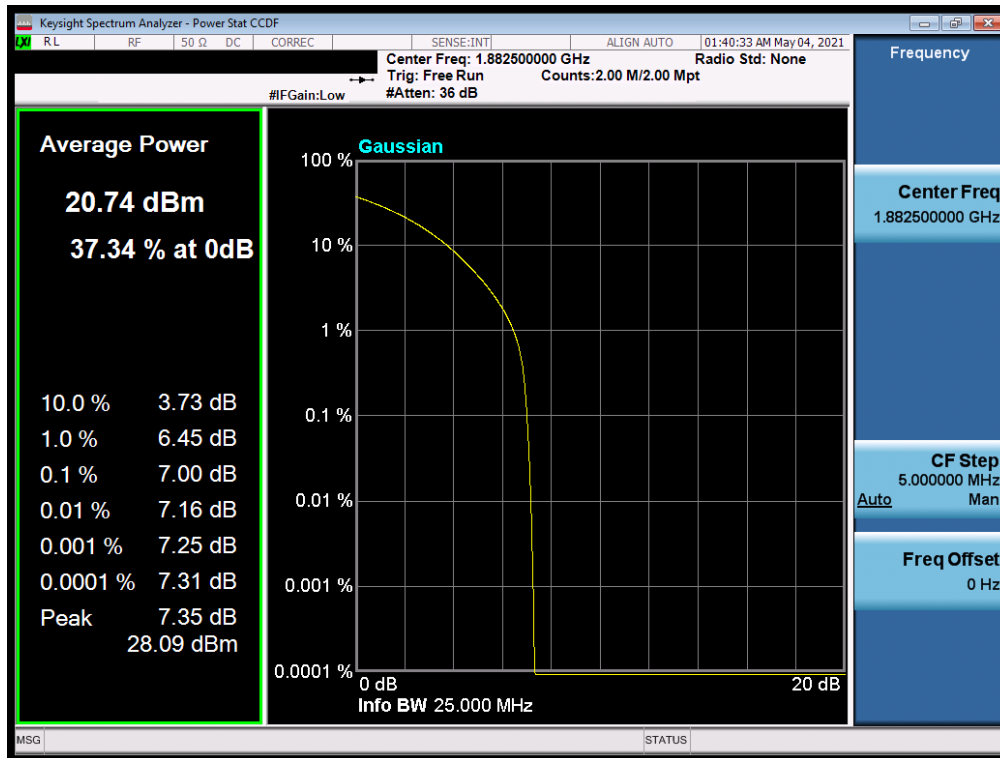


Plot 7-269. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 - 6/11/2021	EUT Type: Portable Handset		Page 159 of 203



Plot 7-270. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-271. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U1	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2107290086-04.A3L	Test Dates: 4/12/2021 – 6/11/2021	EUT Type: Portable Handset		Page 160 of 203