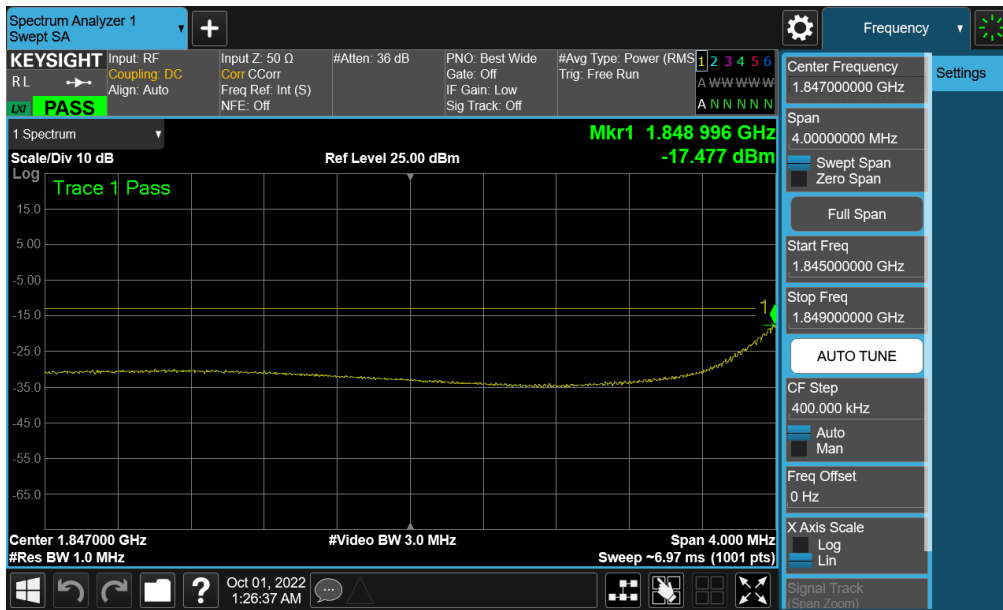


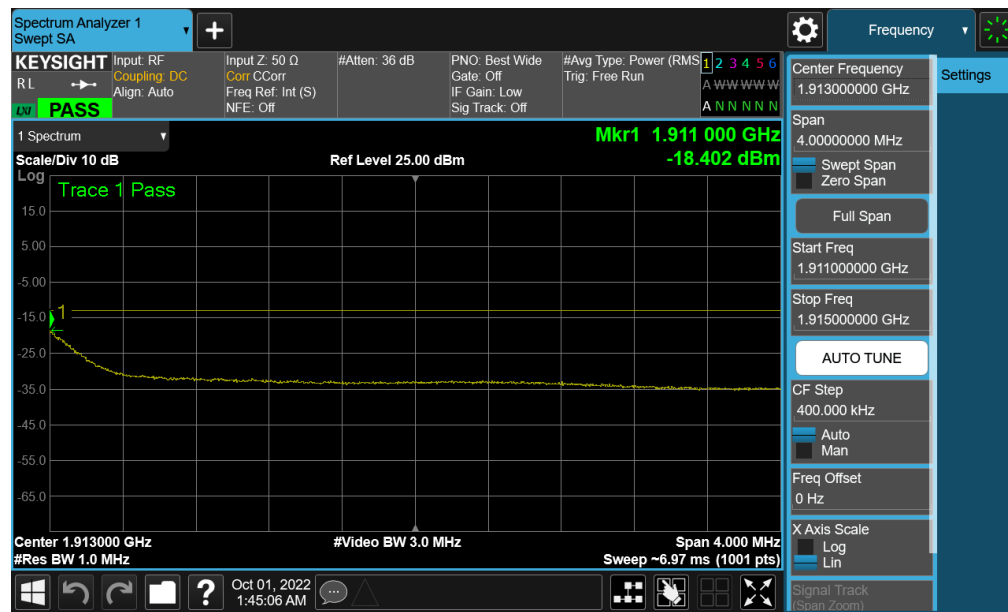


Plot 7-262. Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK – Full RB - Ant F)

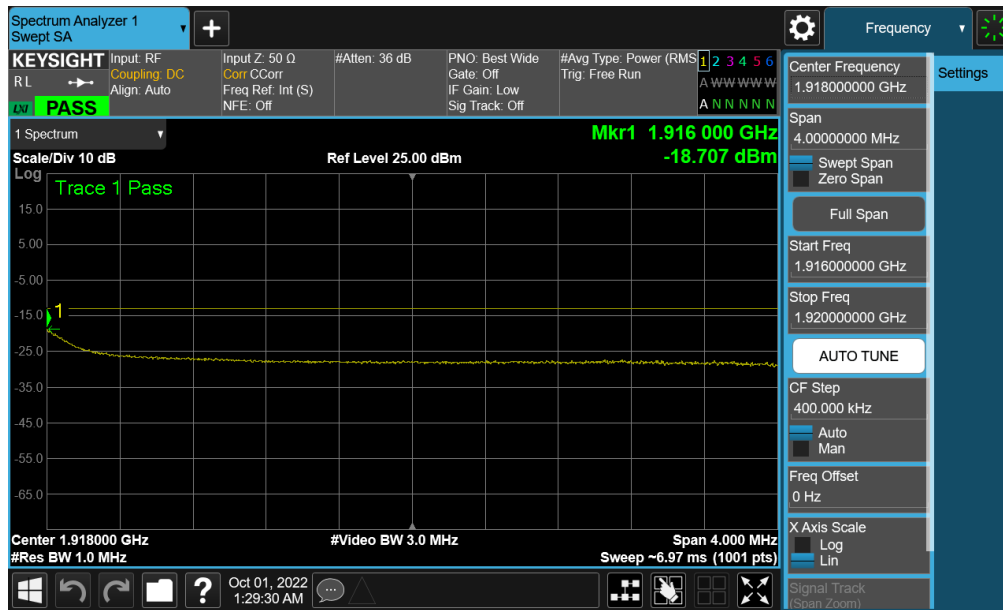
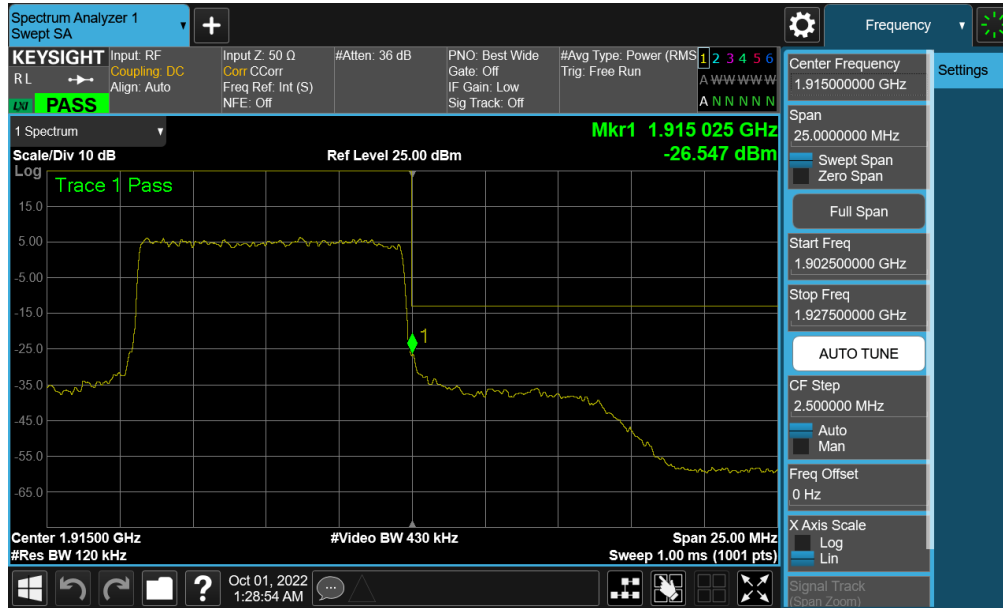


Plot 7-263. Extended Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 156 of 236



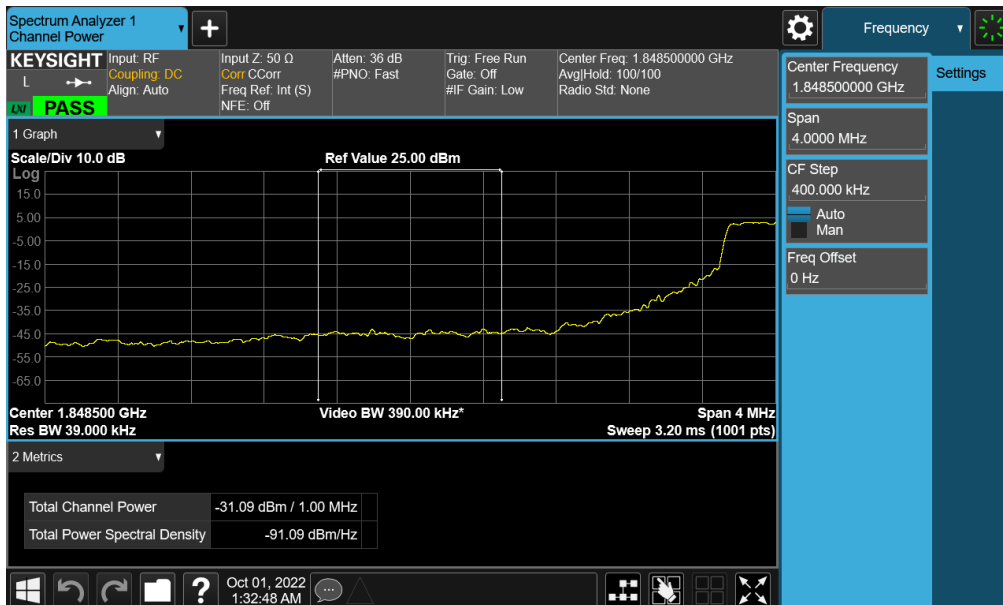
FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 157 of 236



FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 158 of 236



Plot 7-268. Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - Ant F)

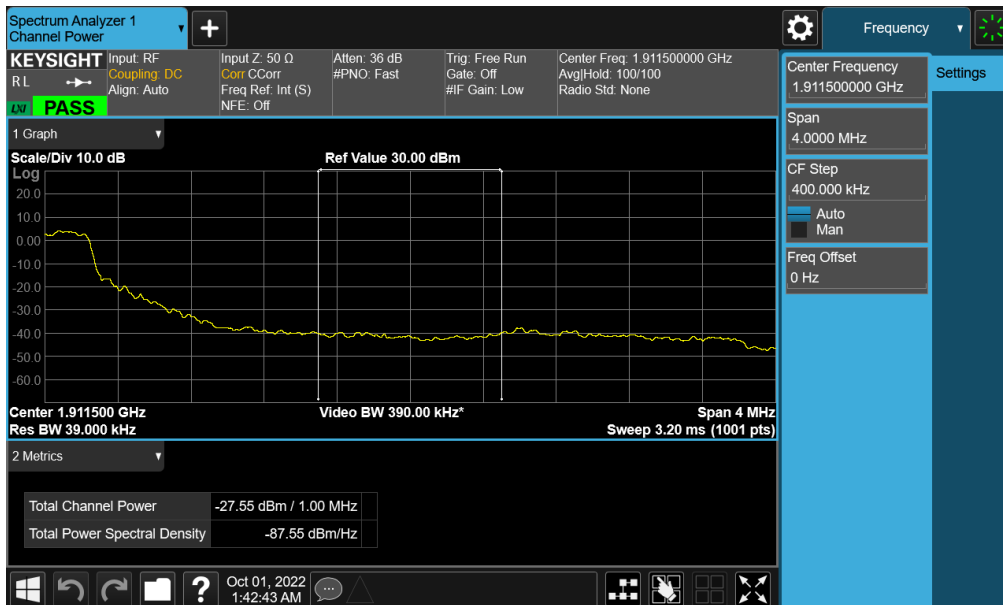


Plot 7-269. Extended Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 159 of 236

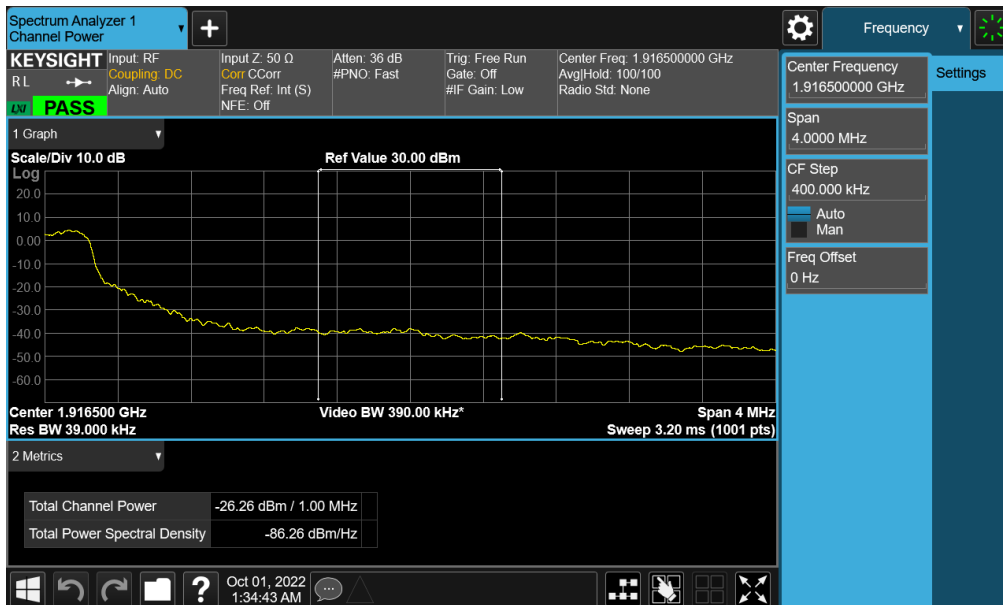


Plot 7-270. Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - Ant F)



Plot 7-271. Extended Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 160 of 236



FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 161 of 236

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.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

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.

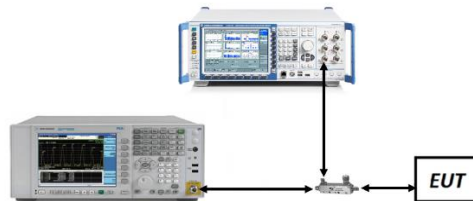


Figure 7-5. Test Instrument & Measurement Setup

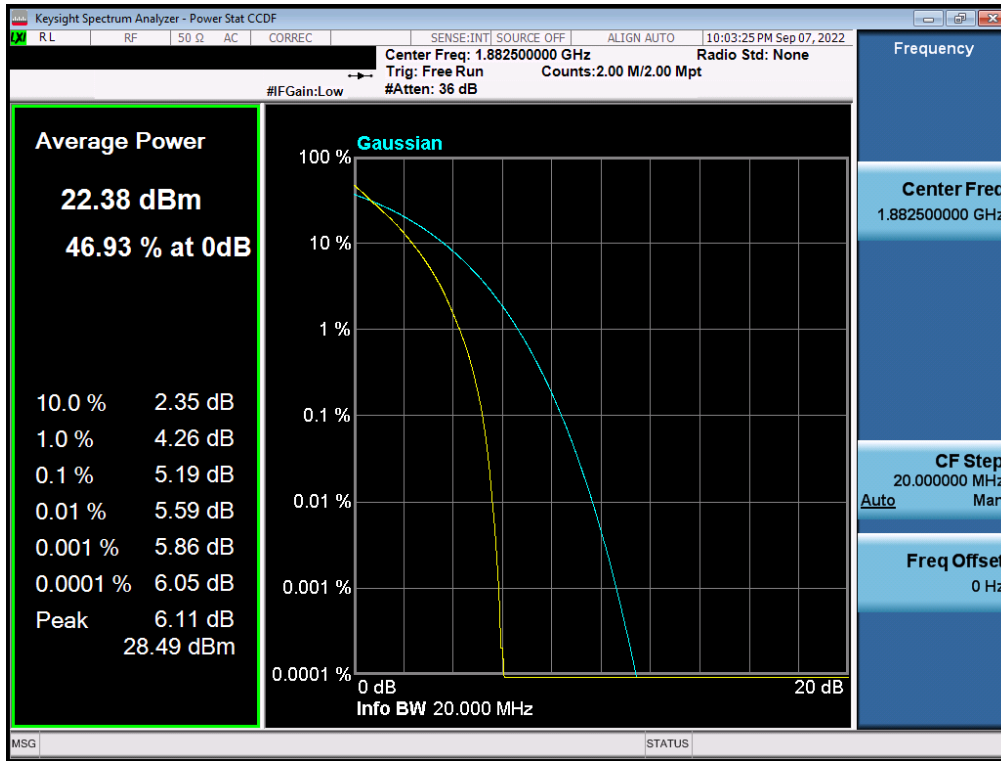
Test Notes

None.

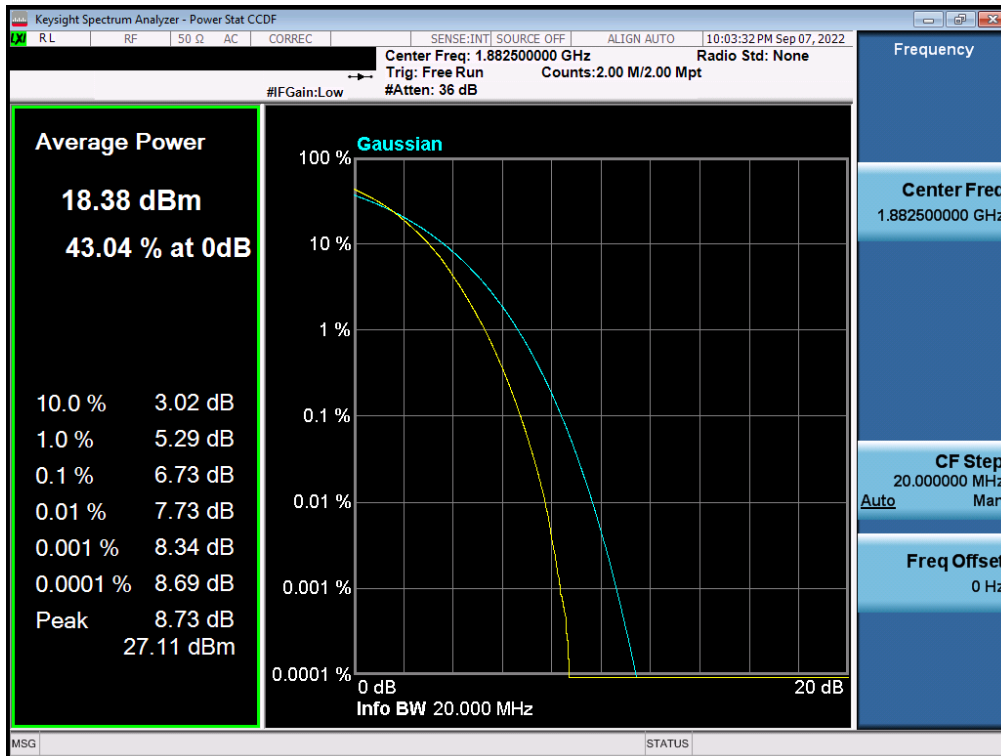
FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 162 of 236

V11.0 9/14/2022

LTE Band 25/2 – Ant A

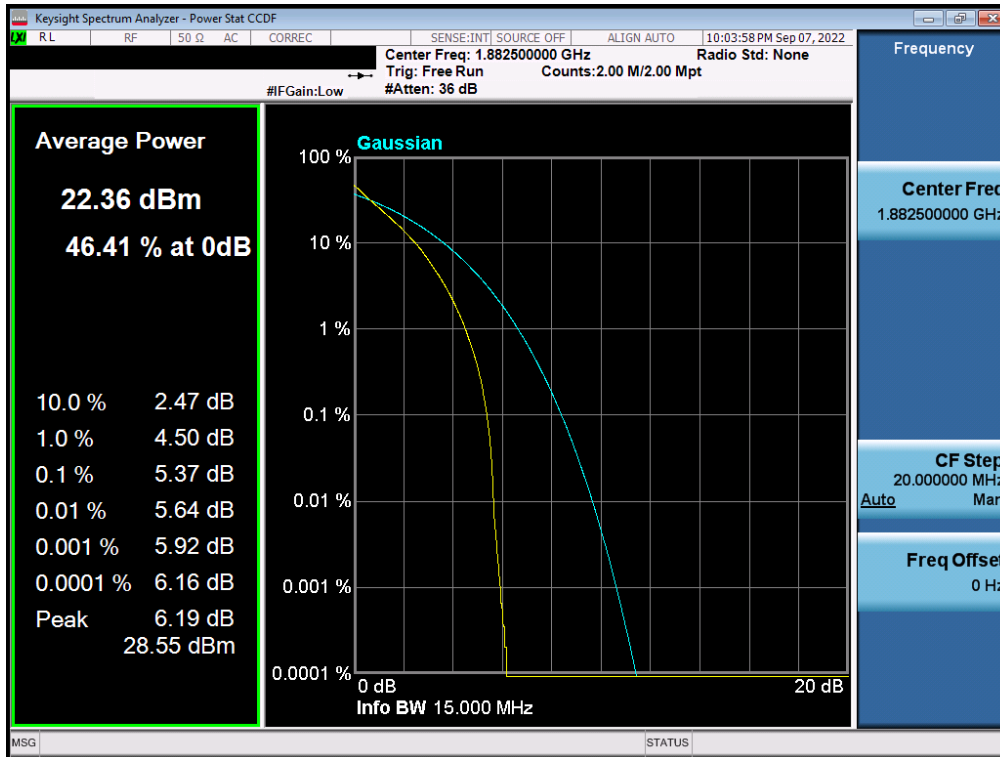


Plot 7-274. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - Ant A)

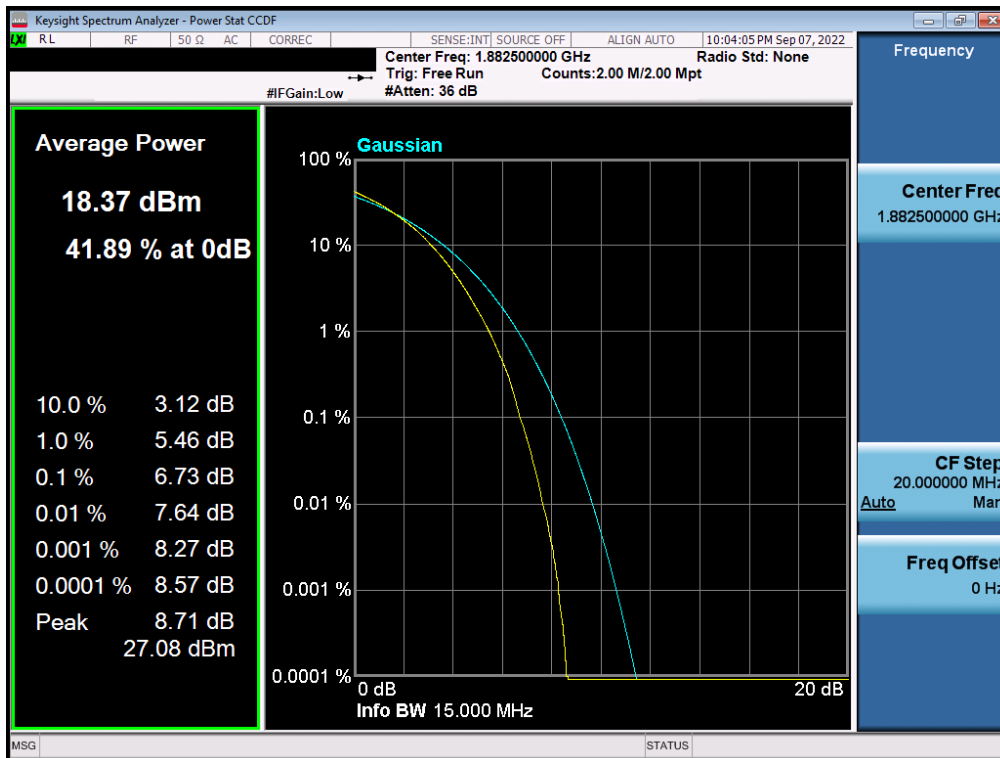


Plot 7-275. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 163 of 236

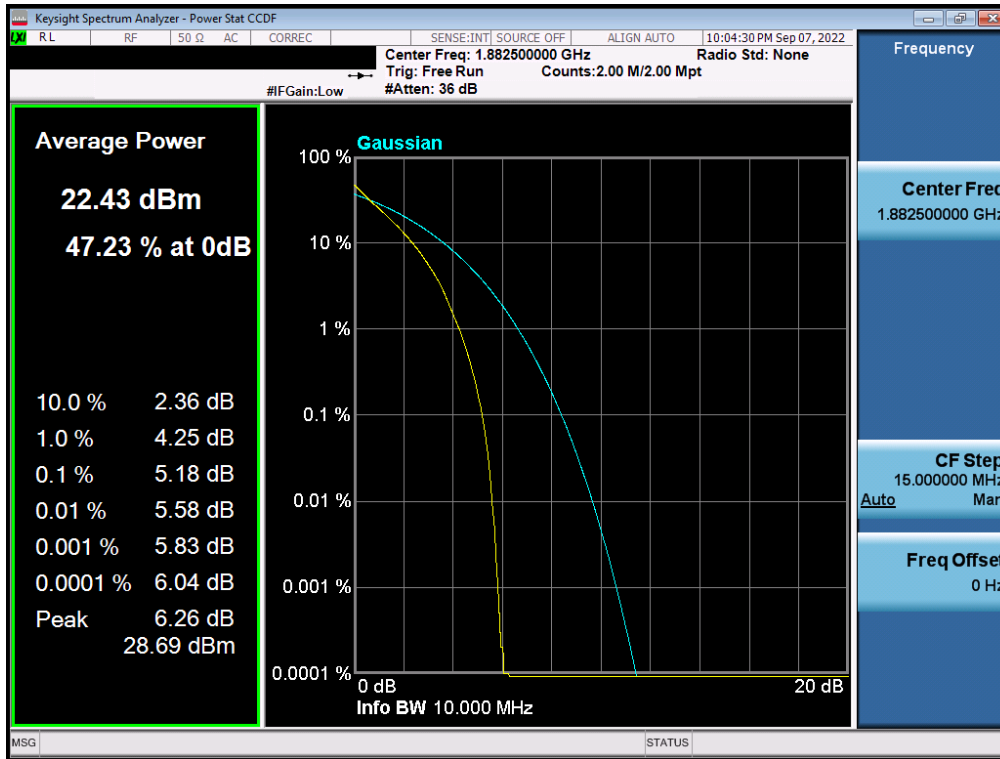


Plot 7-276. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant A)

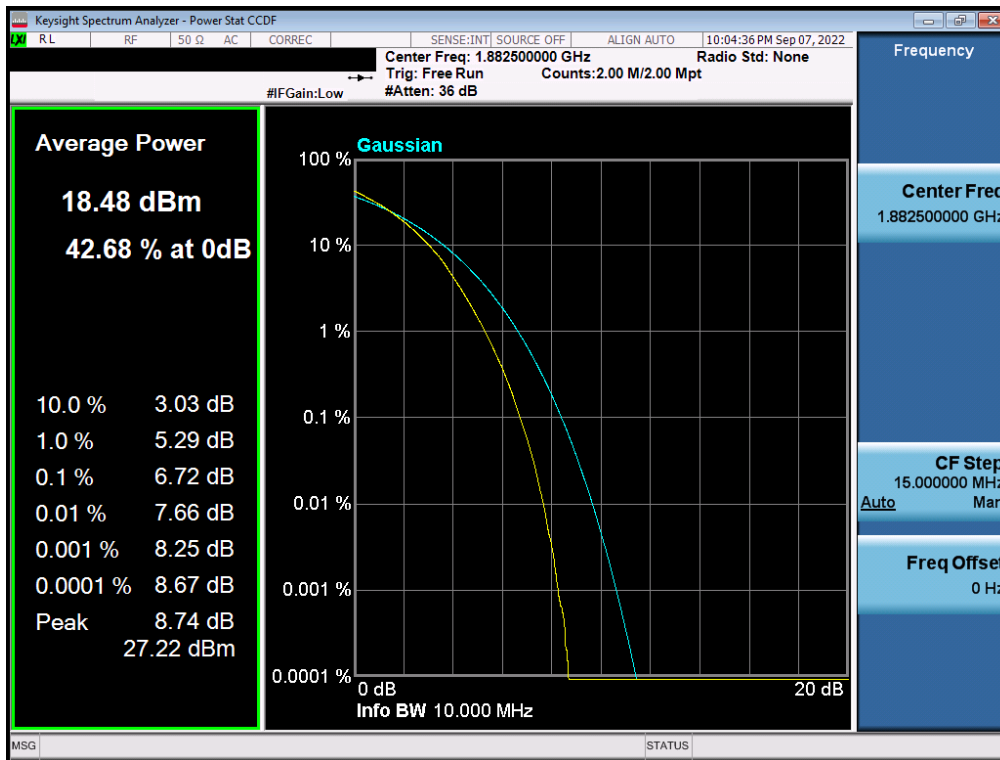


Plot 7-277. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 164 of 236

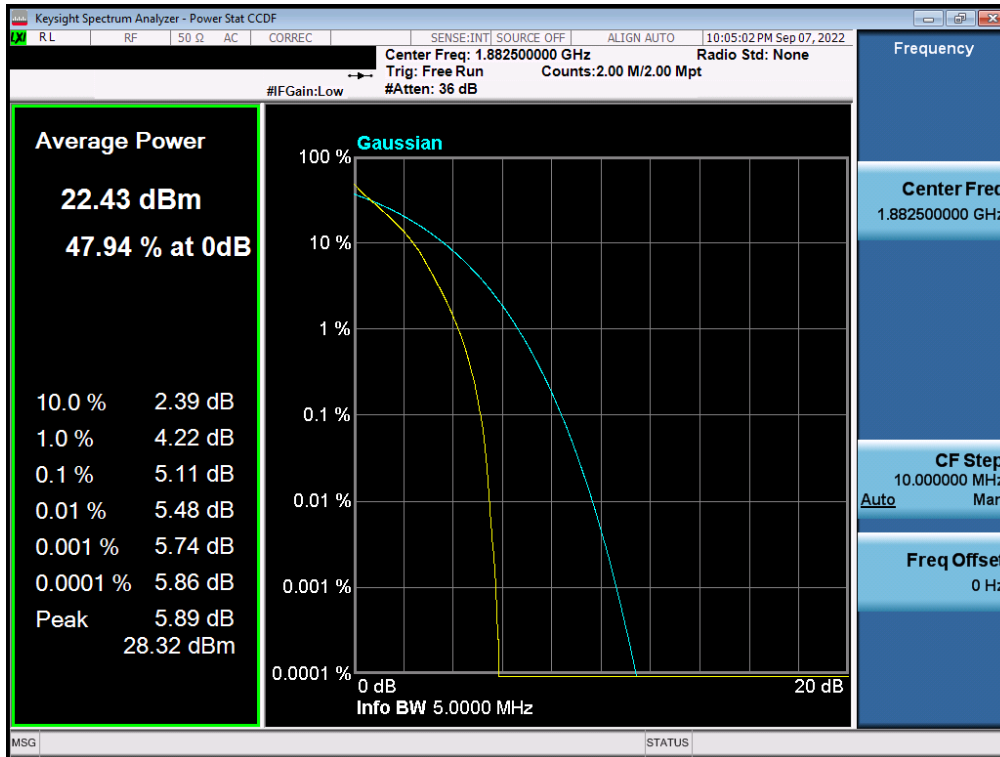


Plot 7-278. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant A)

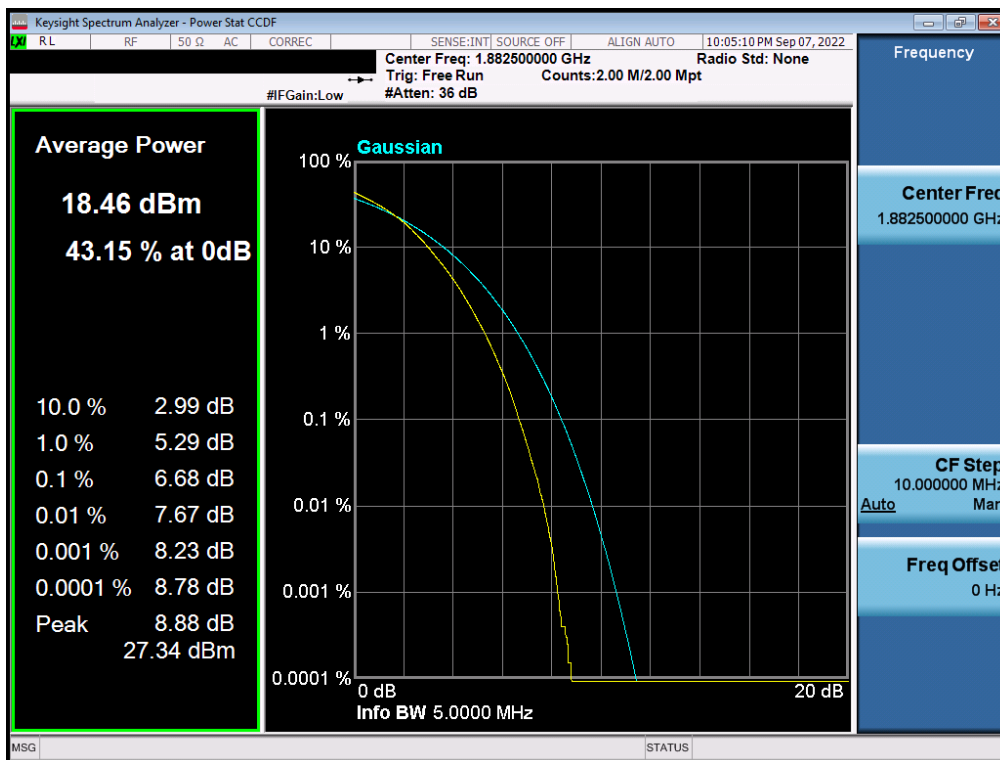


Plot 7-279. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 165 of 236

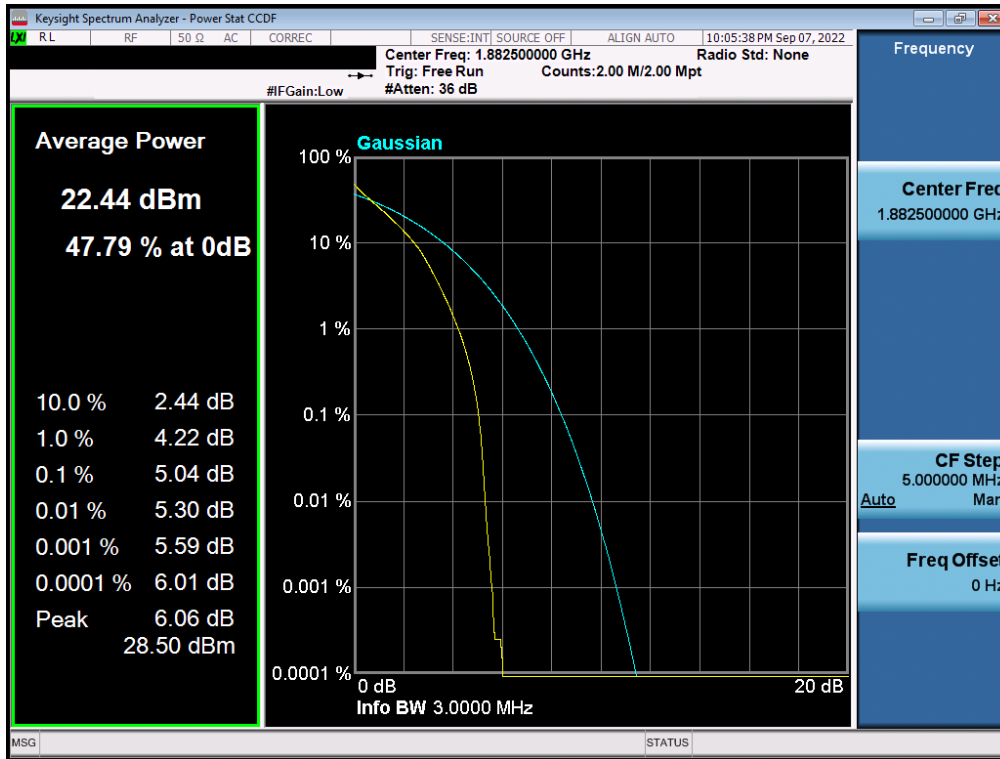


Plot 7-280. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant A)

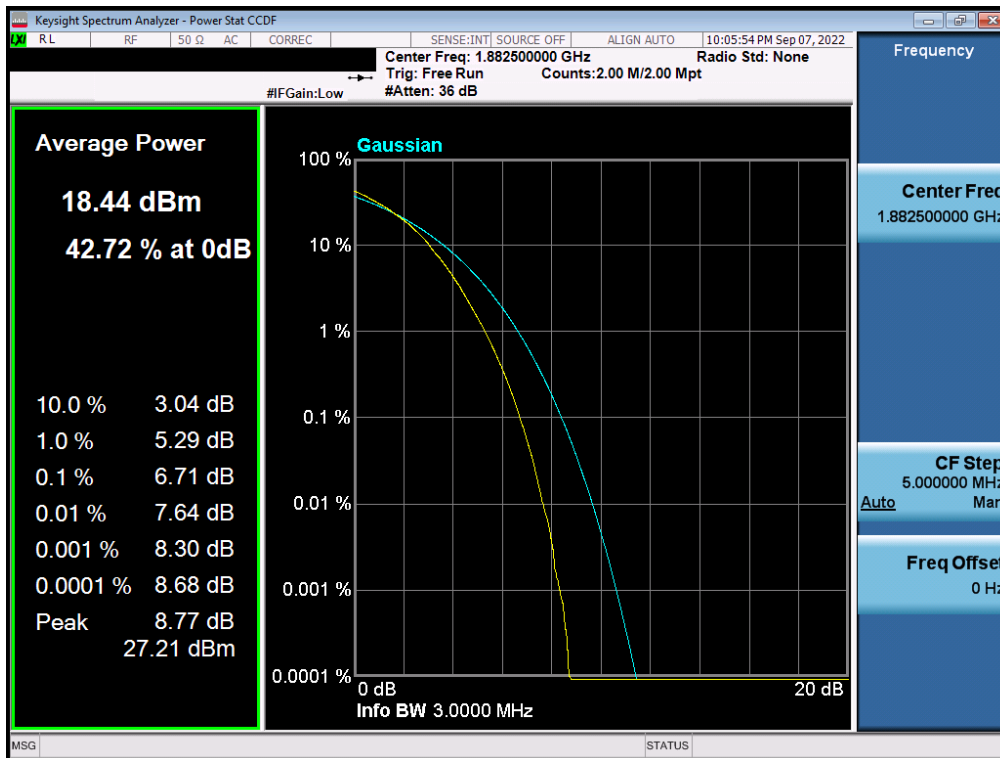


Plot 7-281. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 166 of 236

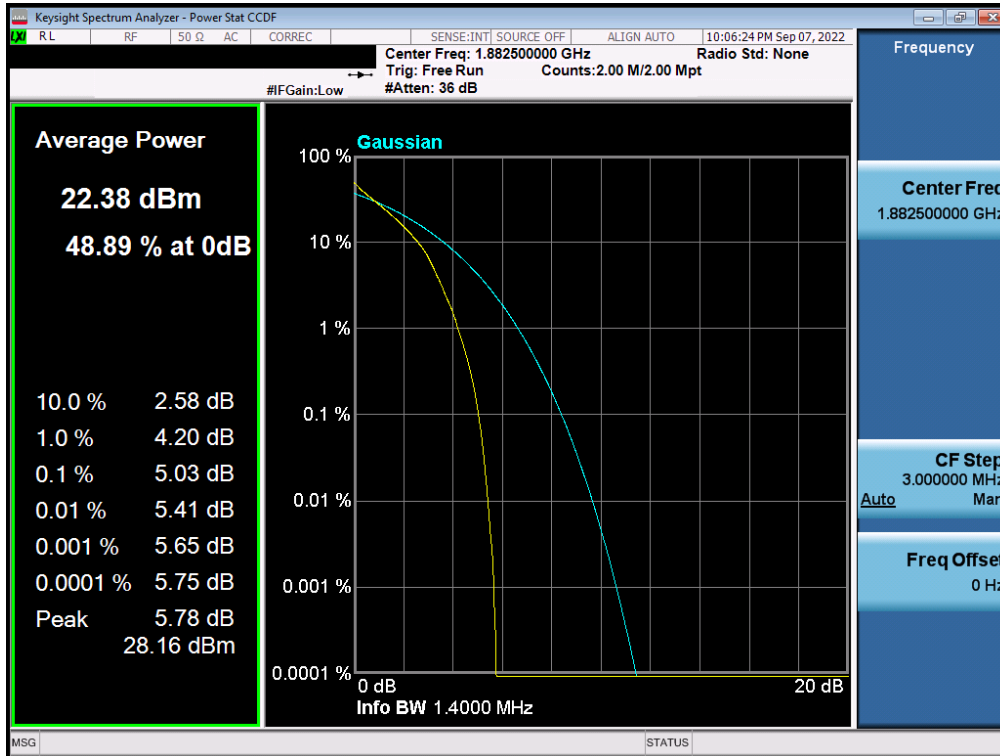


Plot 7-282. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant A)

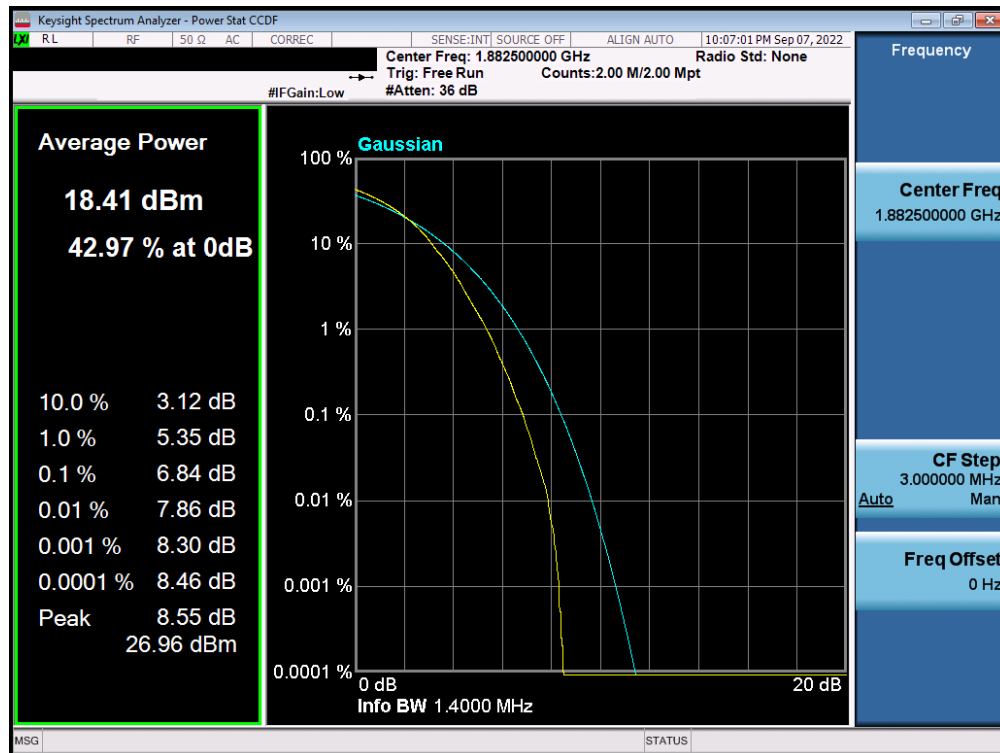


Plot 7-283. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 167 of 236



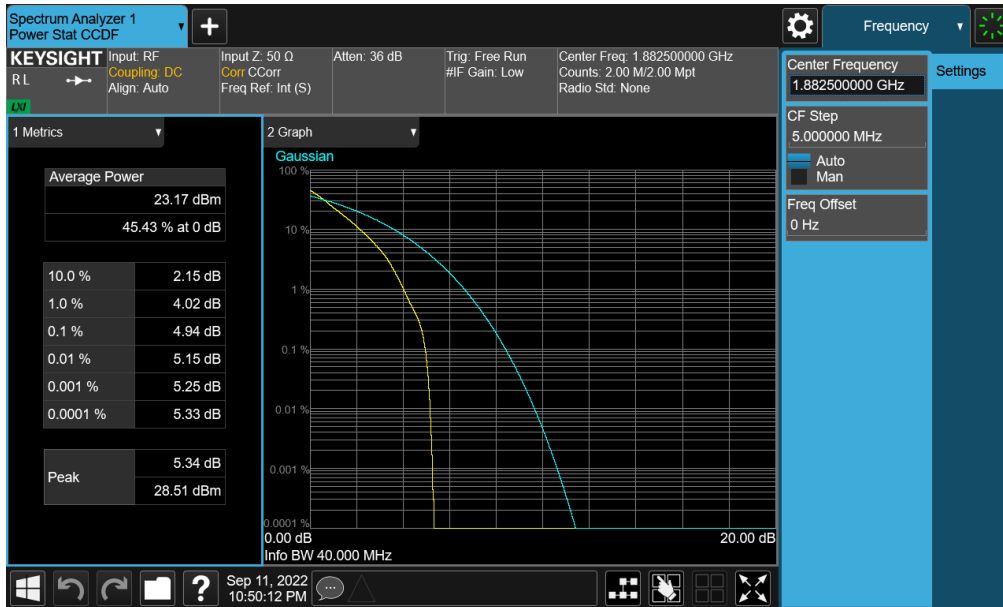
Plot 7-284. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant A)



Plot 7-285. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 168 of 236

NR Band n25/2 – Ant A



Plot 7-286. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

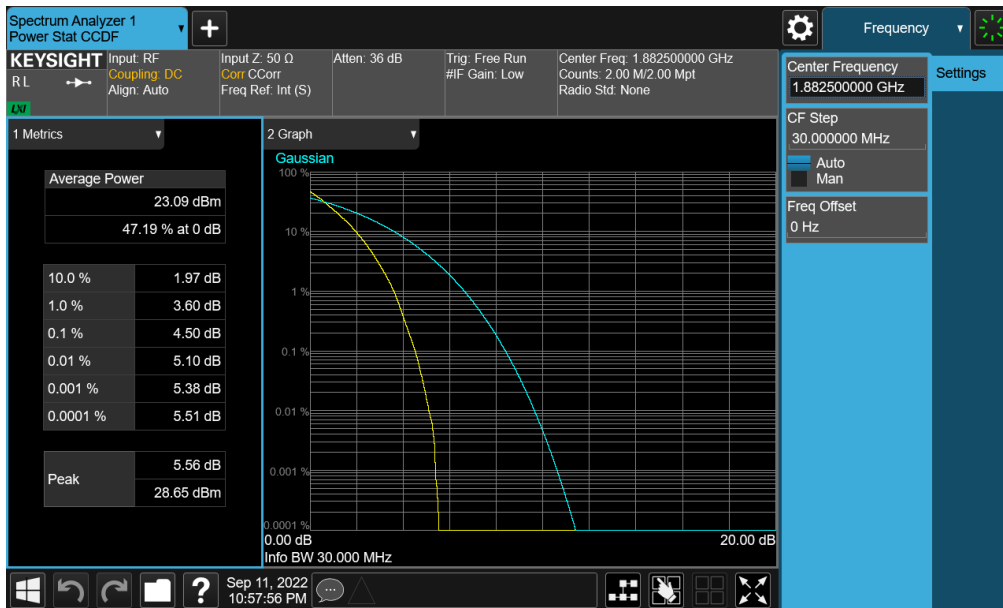


Plot 7-287. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 169 of 236



Plot 7-288. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 256-QAM - Full RB - Ant A)

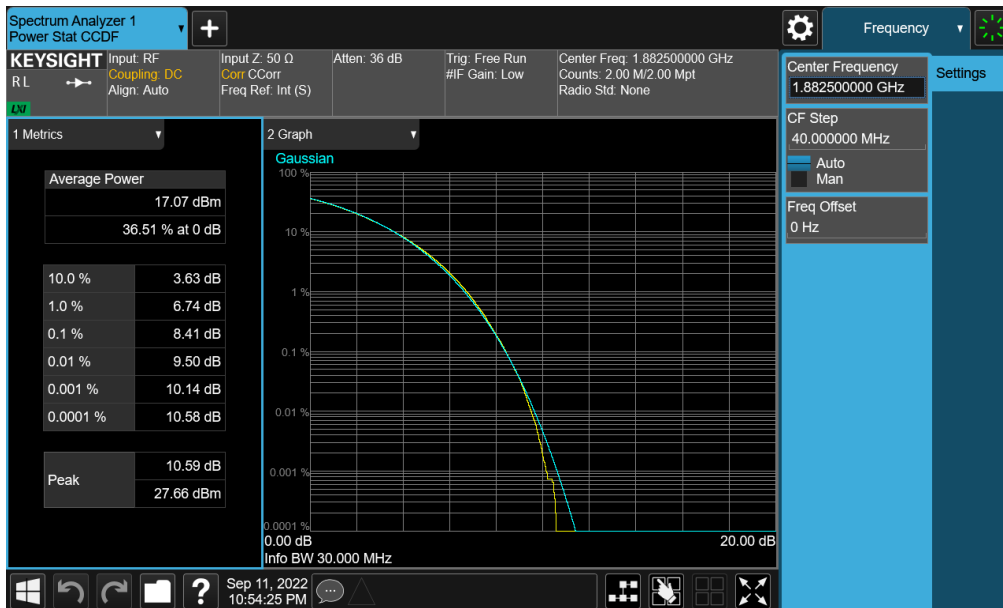


Plot 7-289. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 170 of 236

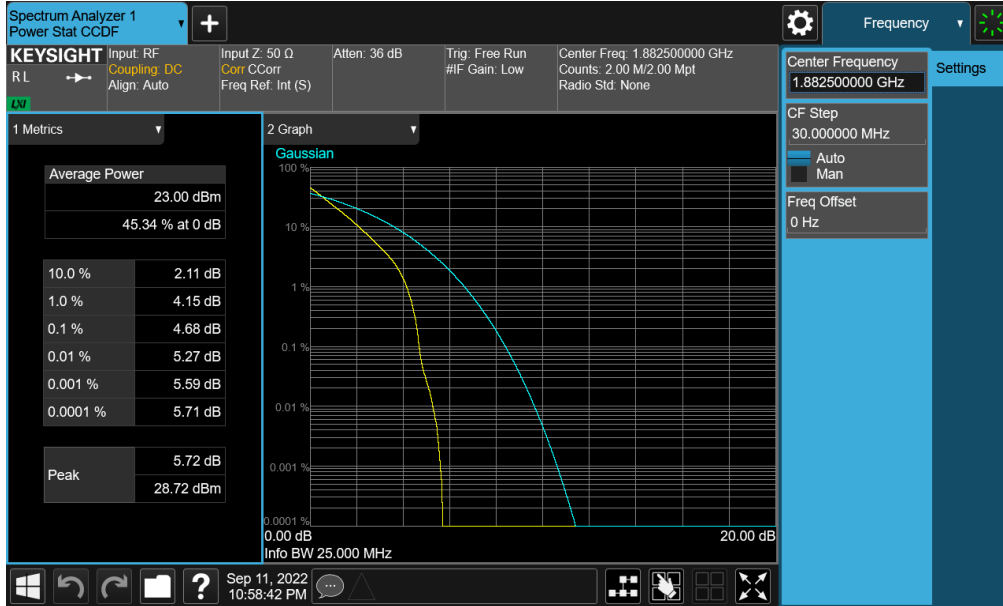


Plot 7-290. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM QPSK - Full RB - Ant A)



Plot 7-291. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 171 of 236



Plot 7-292. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

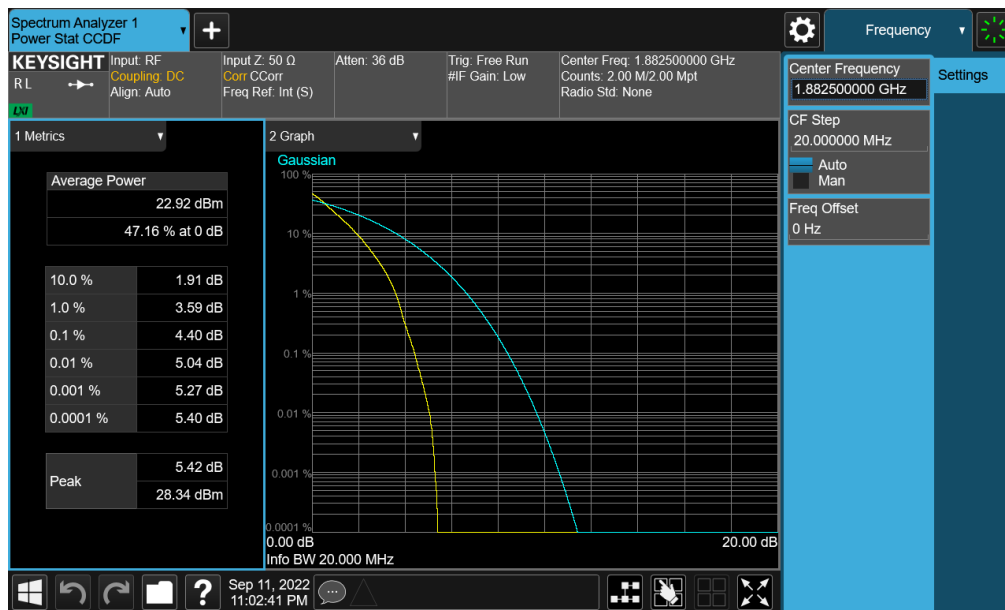


Plot 7-293. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 172 of 236

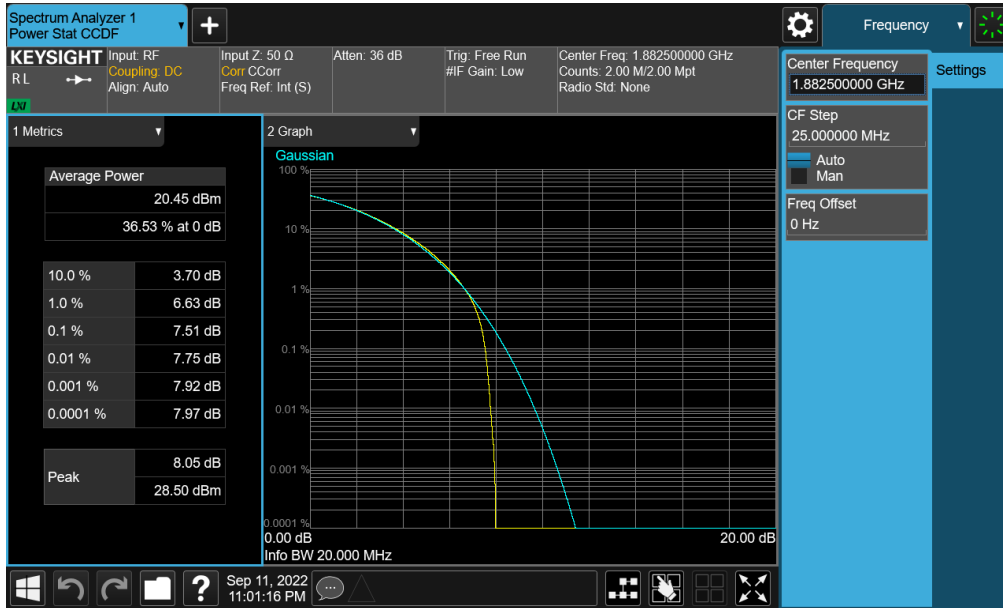


Plot 7-294. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM 256-QAM - Full RB - Ant A)



Plot 7-295. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 173 of 236

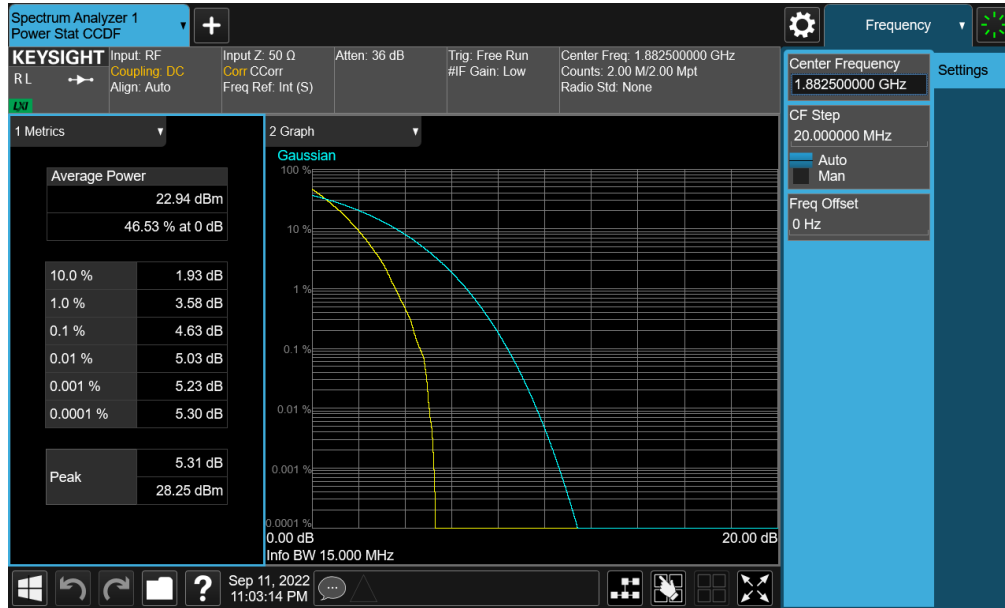


Plot 7-296. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - Ant A)

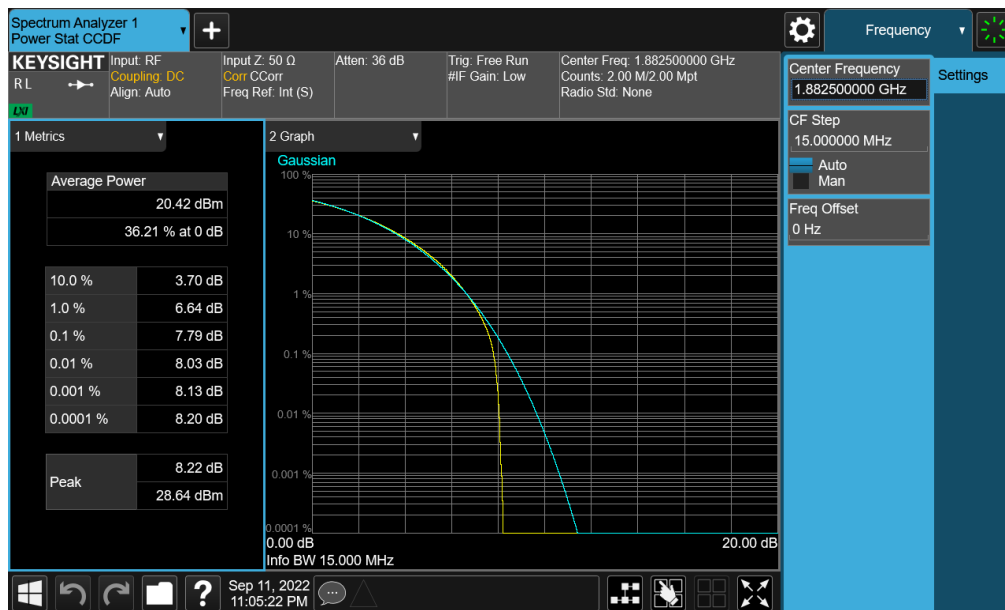


Plot 7-297. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 174 of 236



Plot 7-298. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

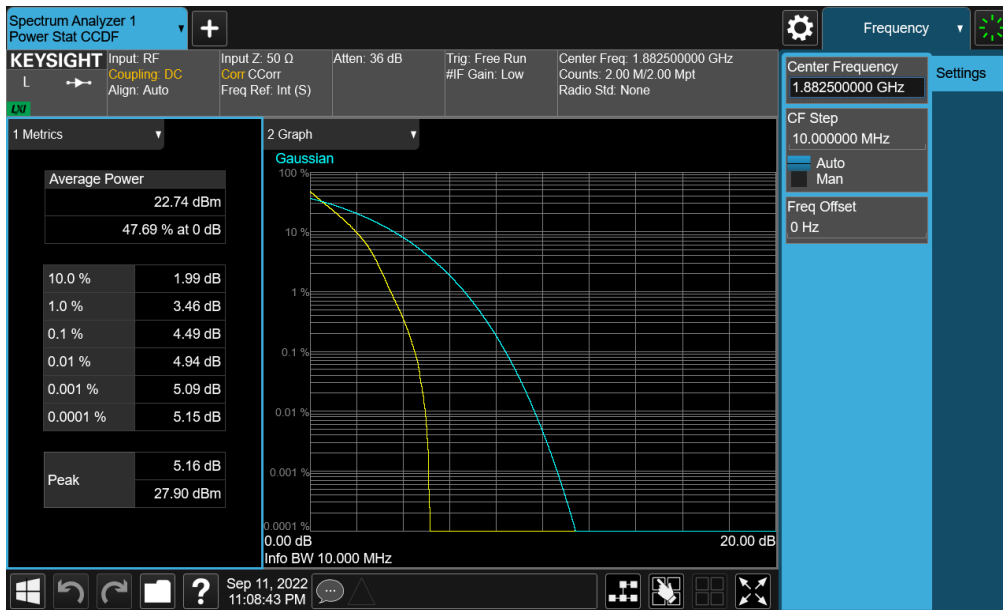


Plot 7-299. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 175 of 236

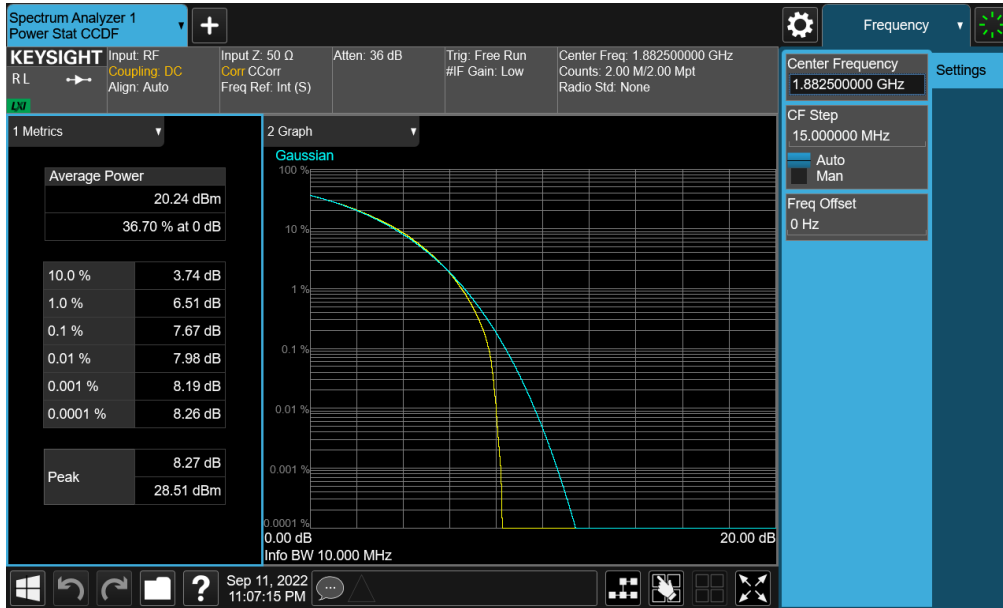


Plot 7-300. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - Ant A)



Plot 7-301. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 176 of 236



Plot 7-302. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - Ant A)



Plot 7-303. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 177 of 236

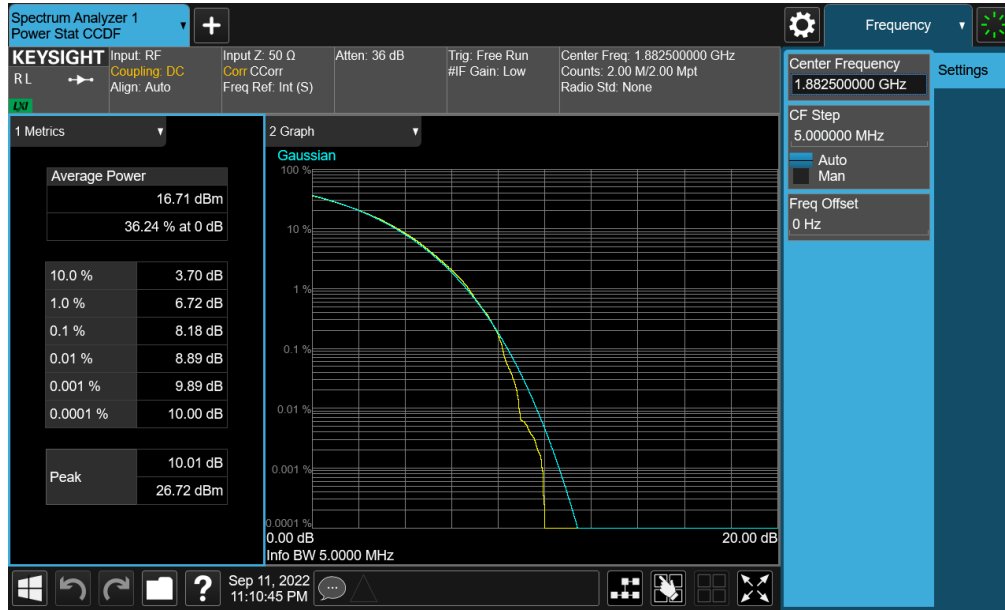


Plot 7-304. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Ant A)



Plot 7-305. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - Ant A)

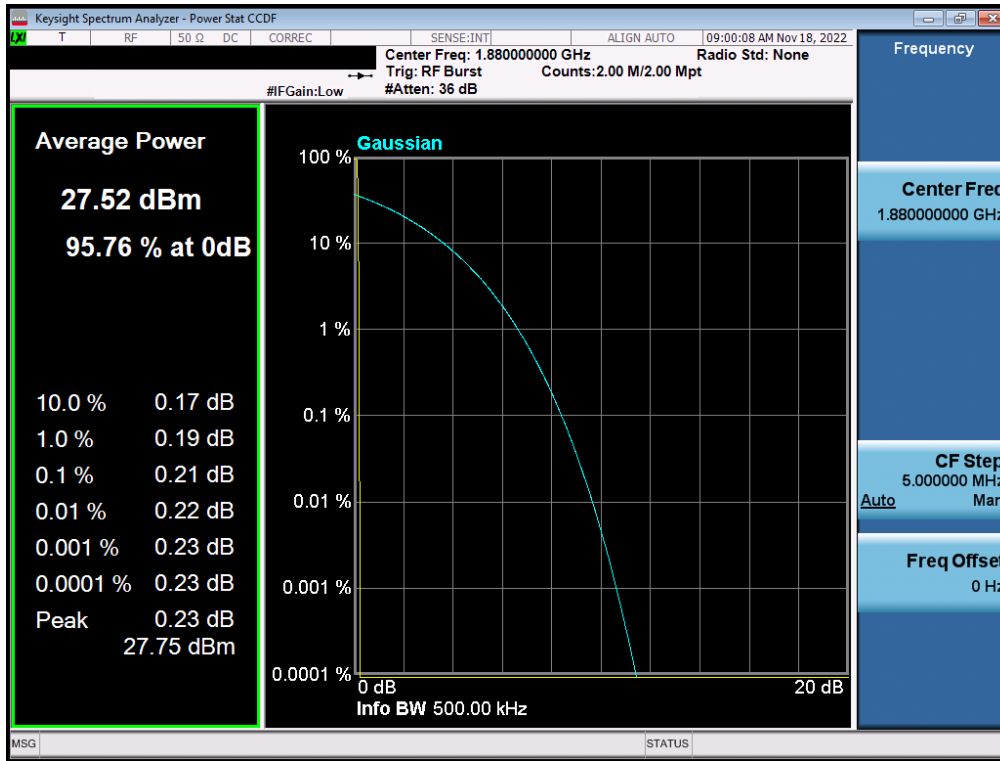
FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 178 of 236



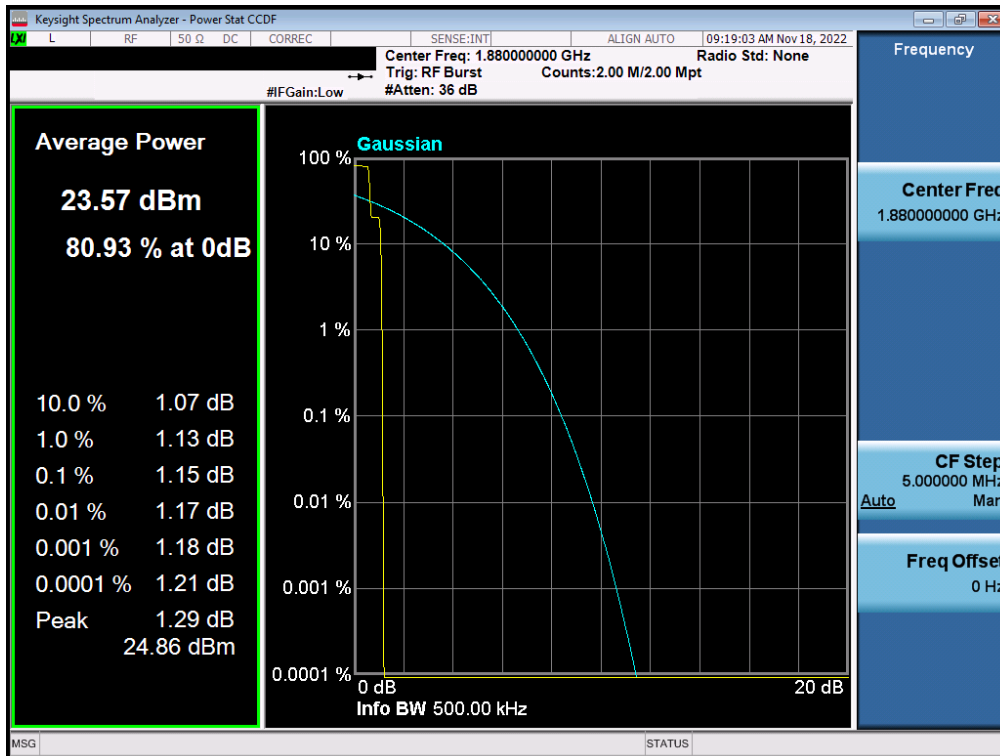
Plot 7-306. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 179 of 236

GSM/GPRS PCS



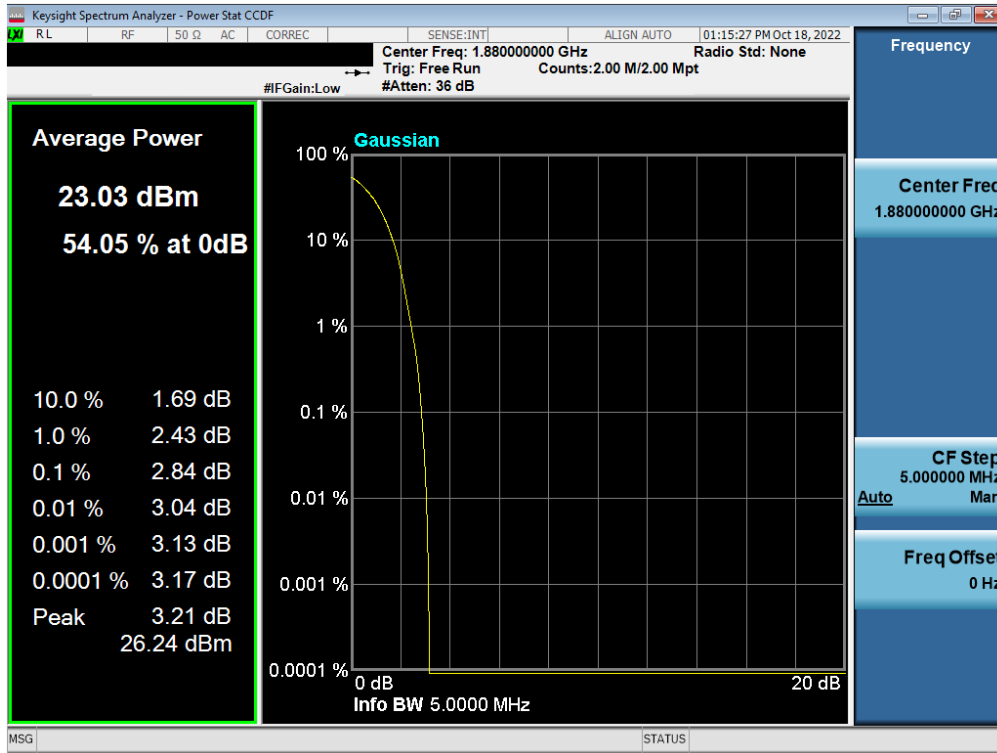
Plot 7-307. PAR Plot (GPRS, Ch. 661)



Plot 7-308. PAR Plot (EDGE, Ch. 661)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 180 of 236

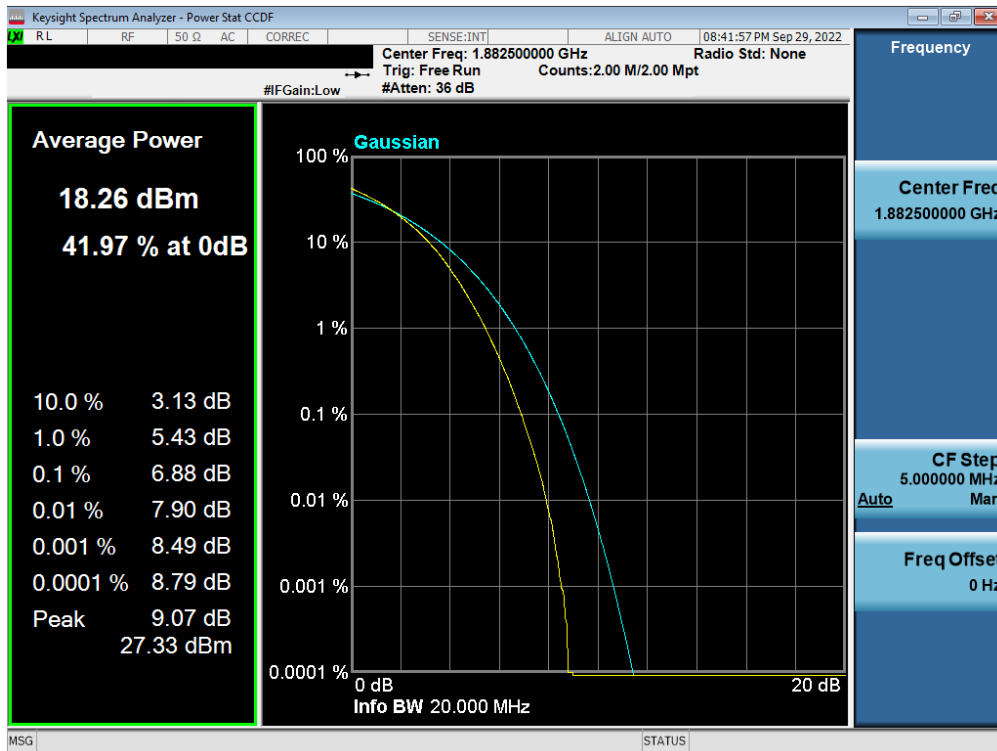
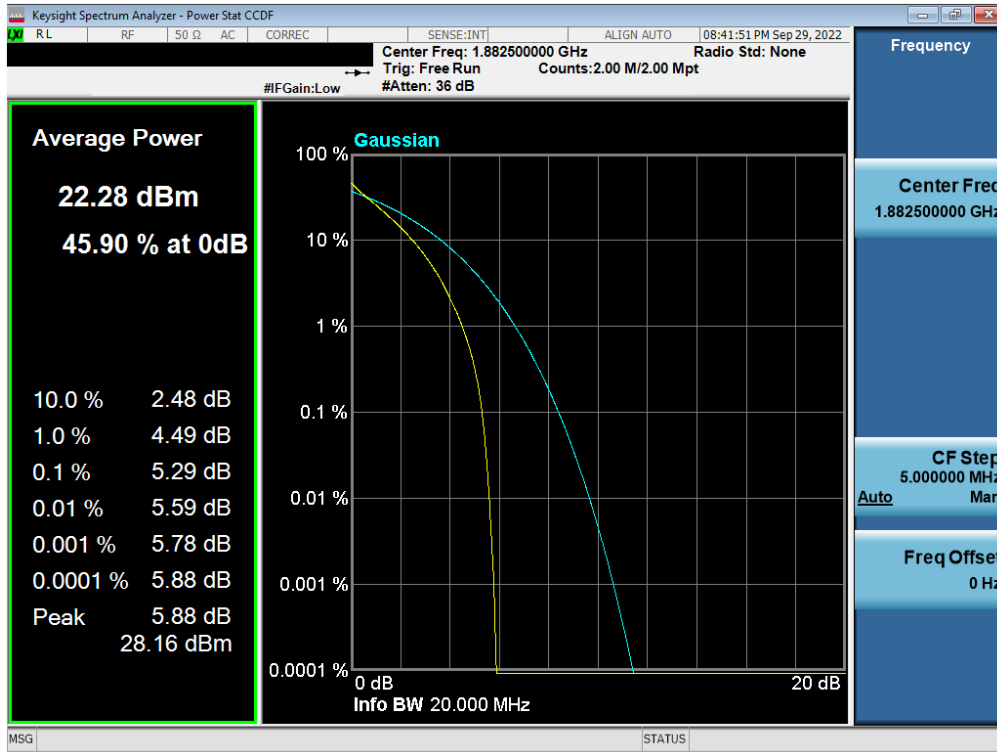
WCDMA PCS



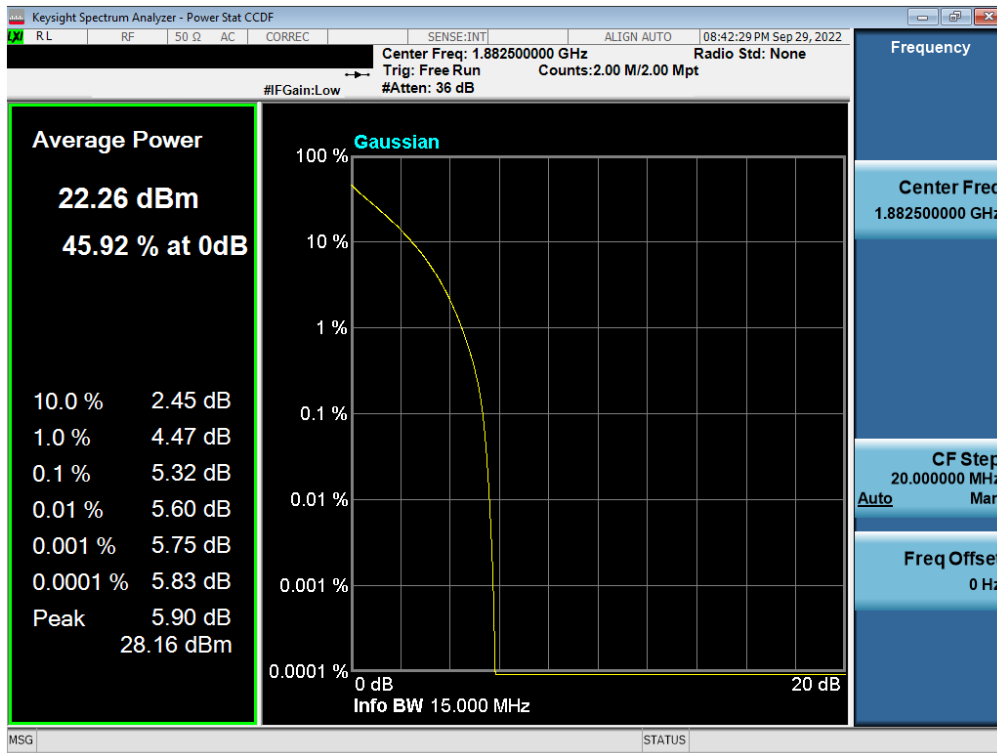
Plot 7-309. PAR Plot (WCDMA, Ch. 9400)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 181 of 236

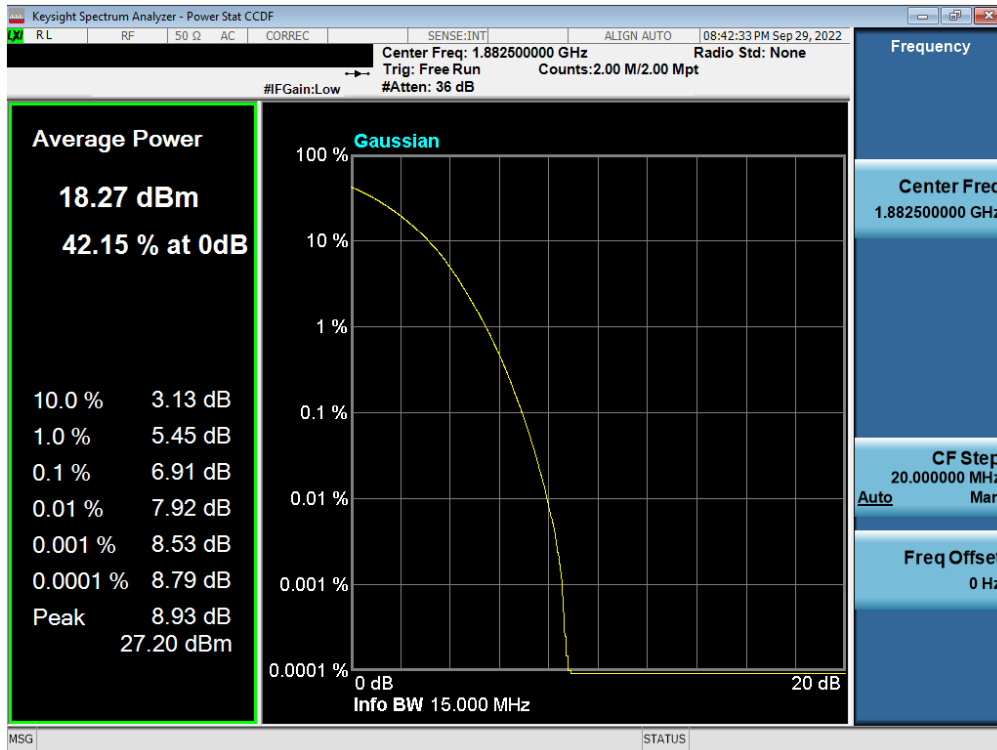
LTE Band 25/2 – Ant F



FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 182 of 236

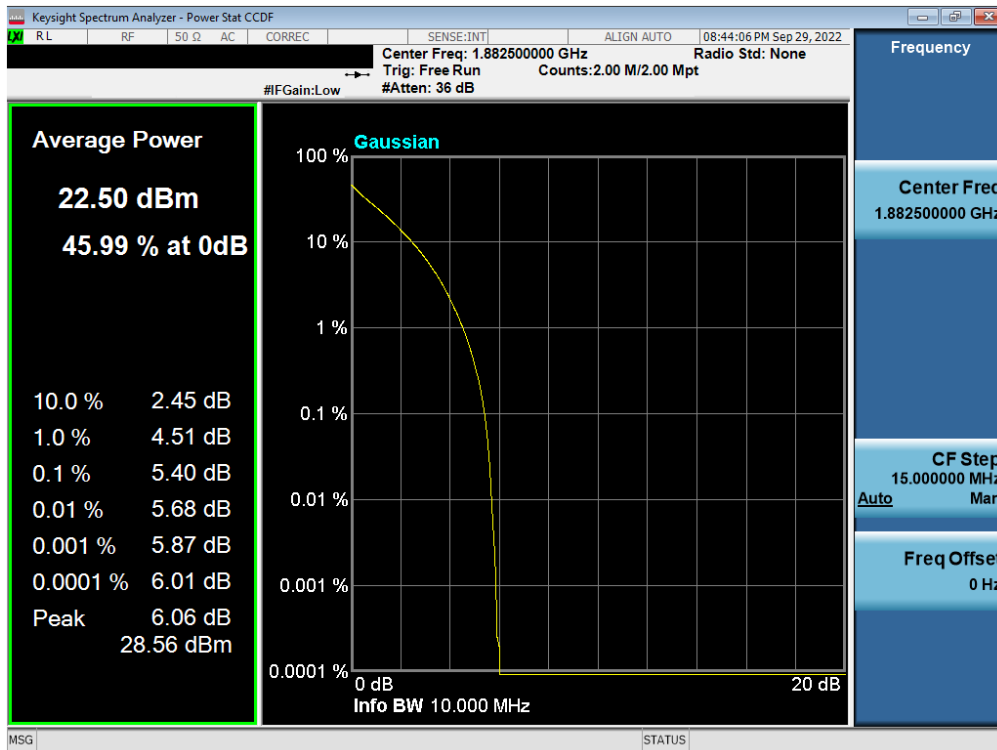


Plot 7-312. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant F)

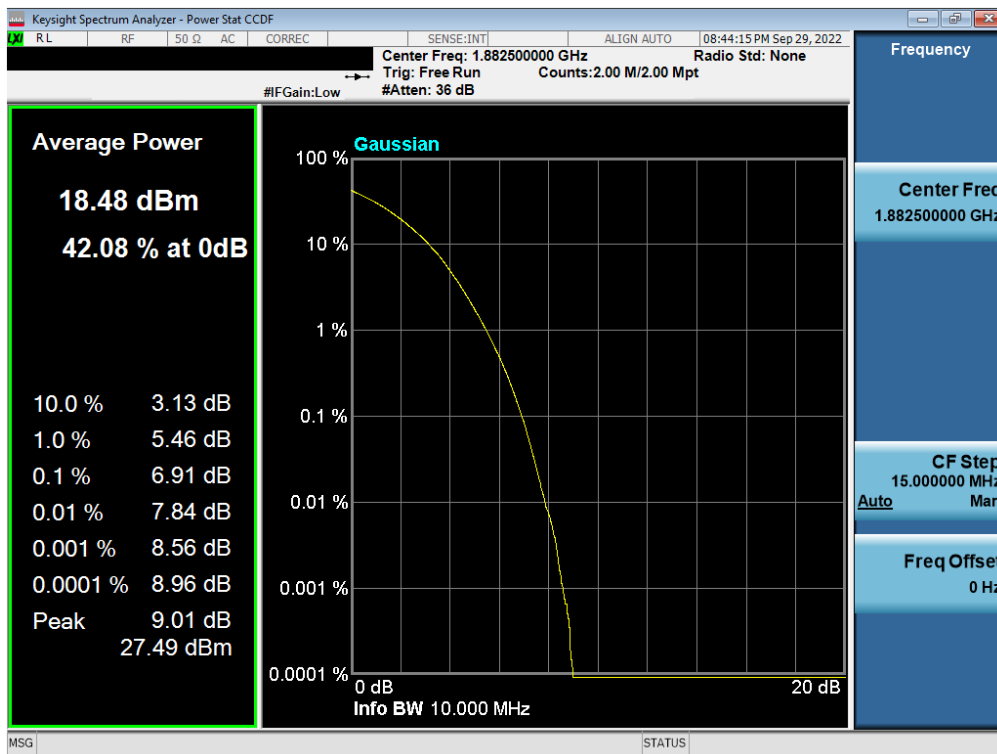


Plot 7-313. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 183 of 236

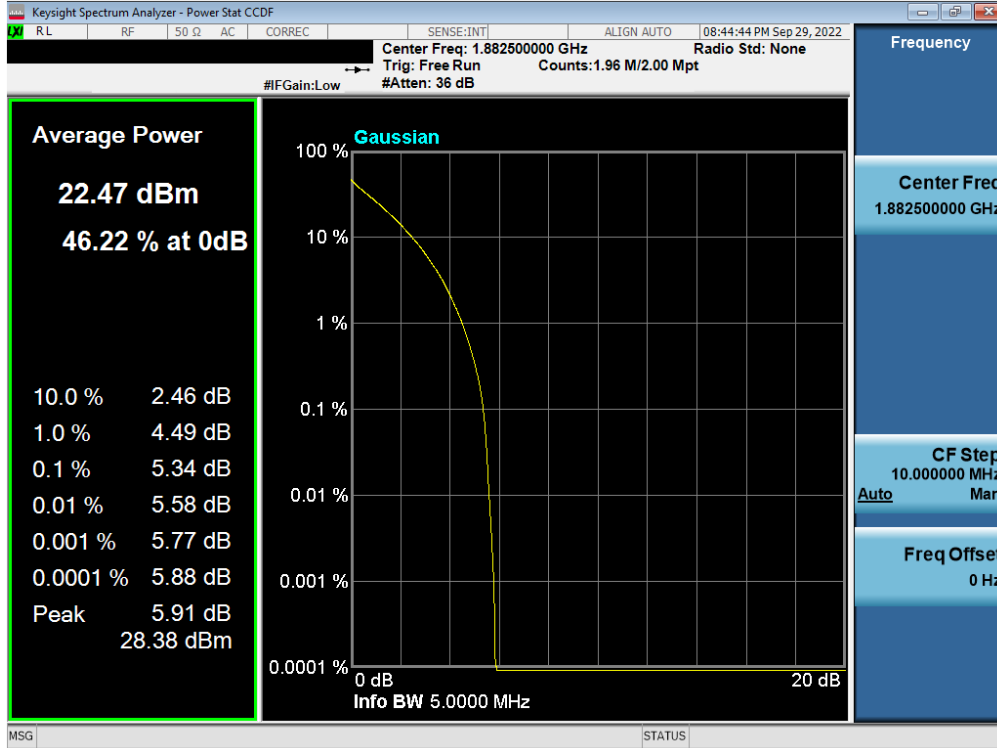


Plot 7-314. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant F)

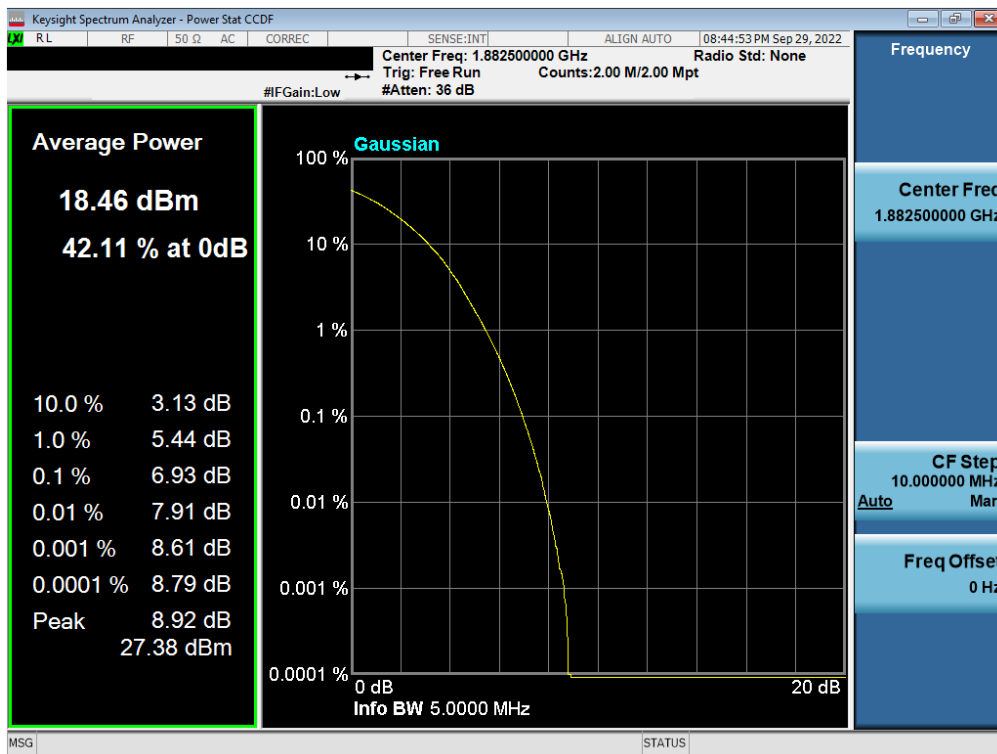


Plot 7-315. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 184 of 236

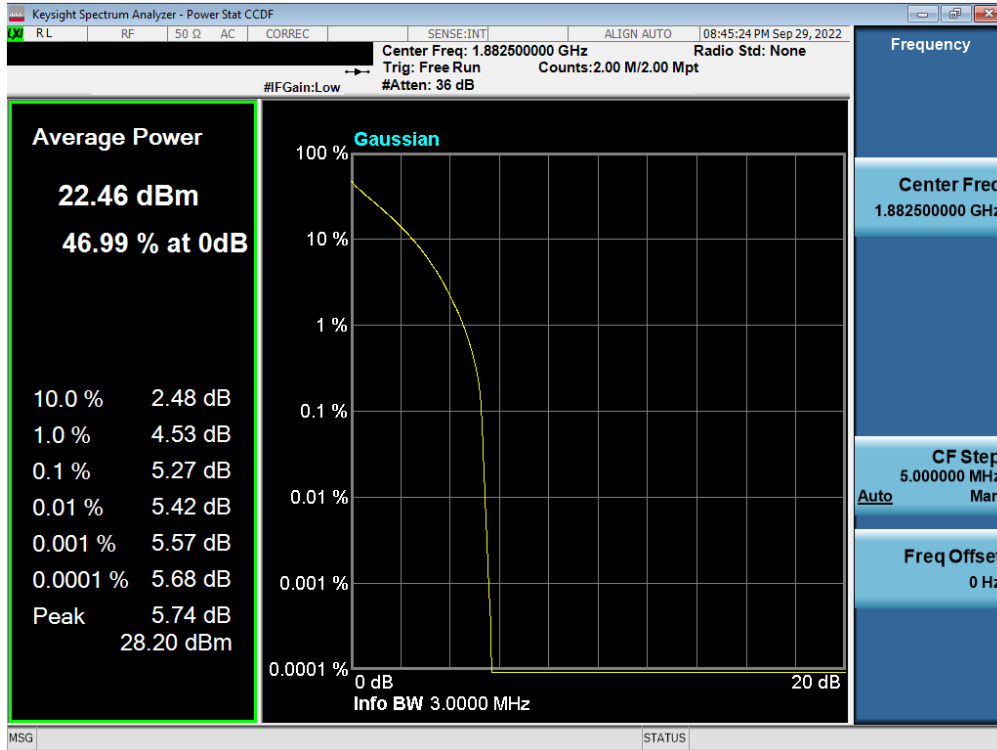


Plot 7-316. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant F)

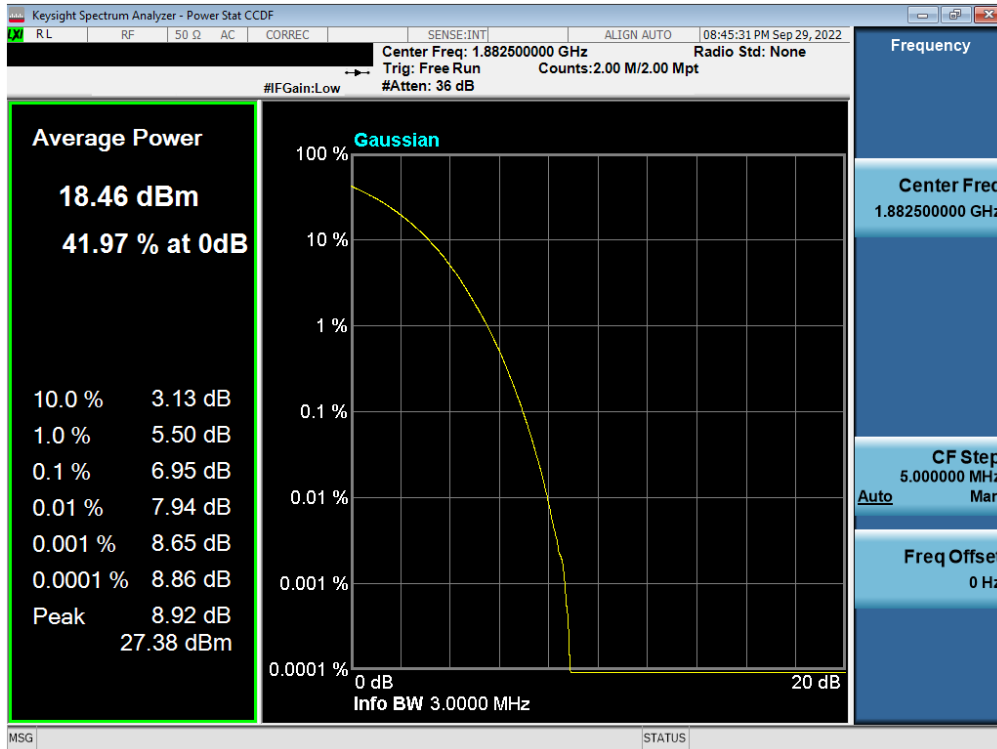


Plot 7-317. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 185 of 236

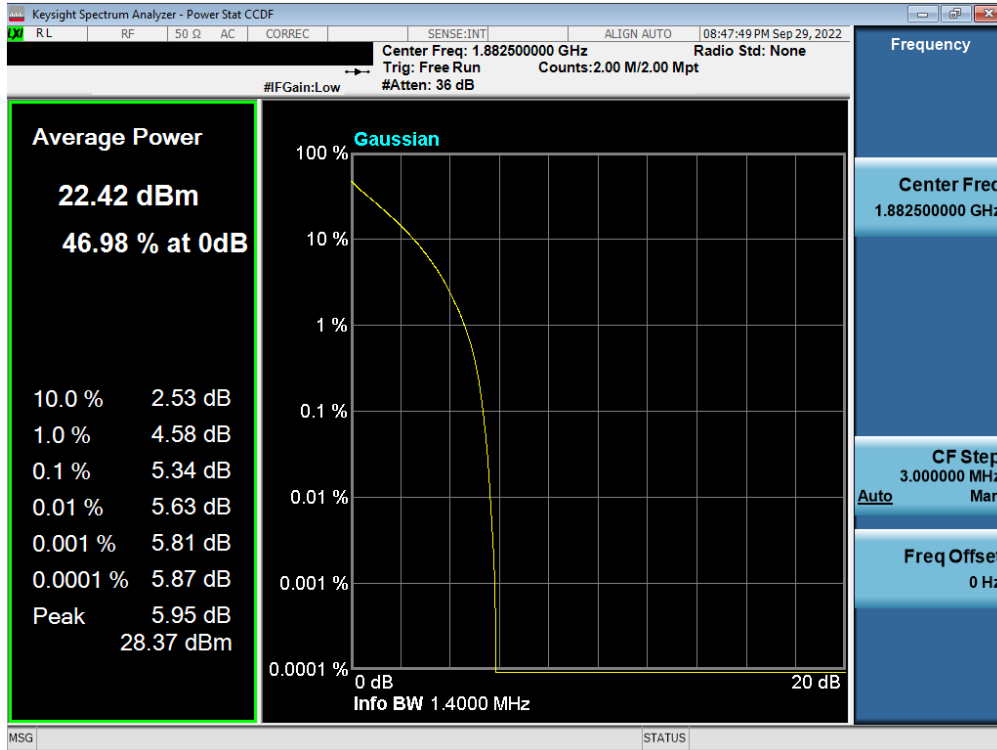


Plot 7-318. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant F)

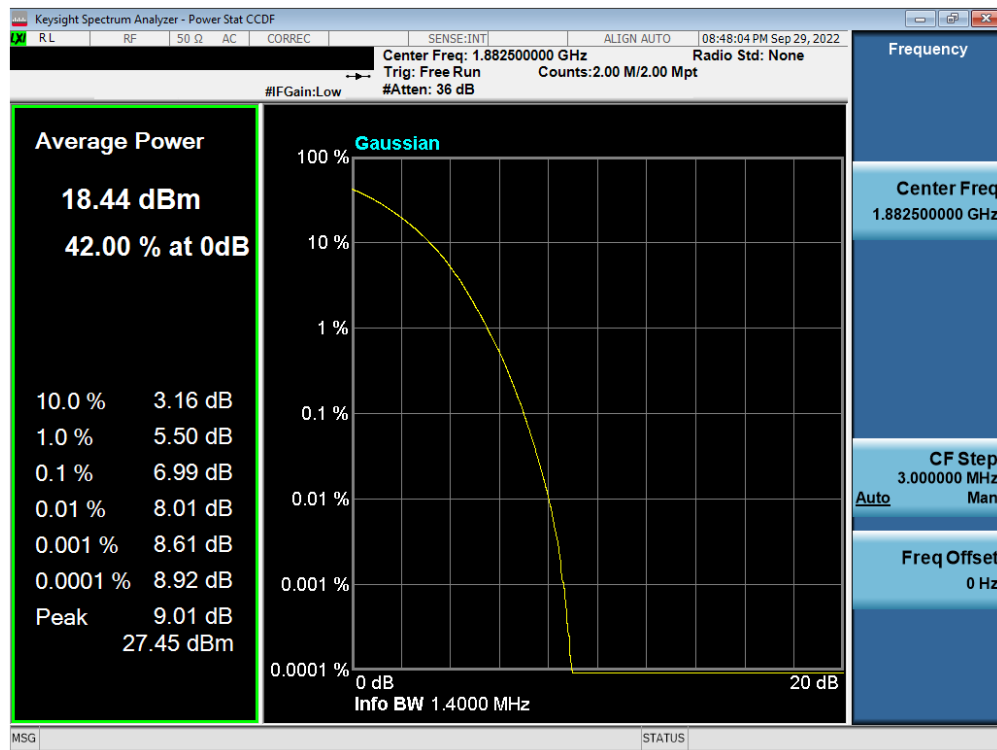


Plot 7-319. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 186 of 236



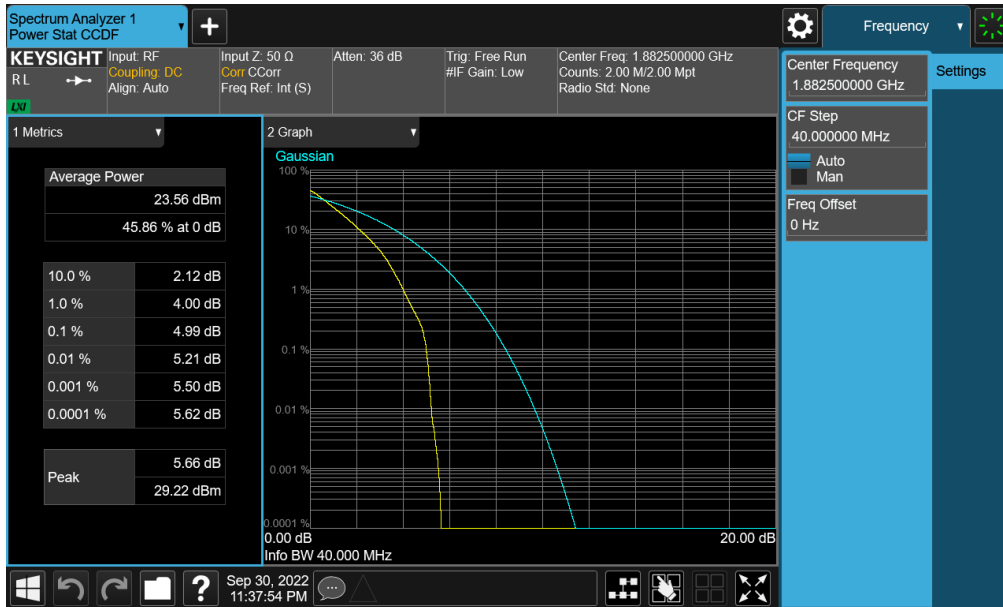
Plot 7-320. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant F)



Plot 7-321. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 187 of 236

NR Band n25/2 – Ant F



Plot 7-322. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)



Plot 7-323. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 188 of 236



Plot 7-324. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

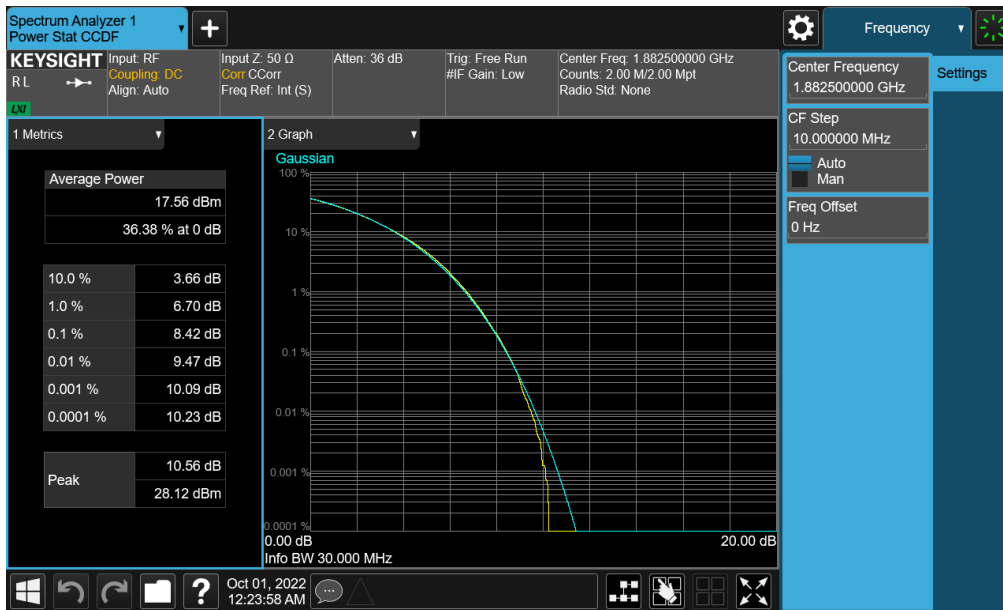


Plot 7-325. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 189 of 236



Plot 7-326. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM QPSK - Full RB - Ant F)

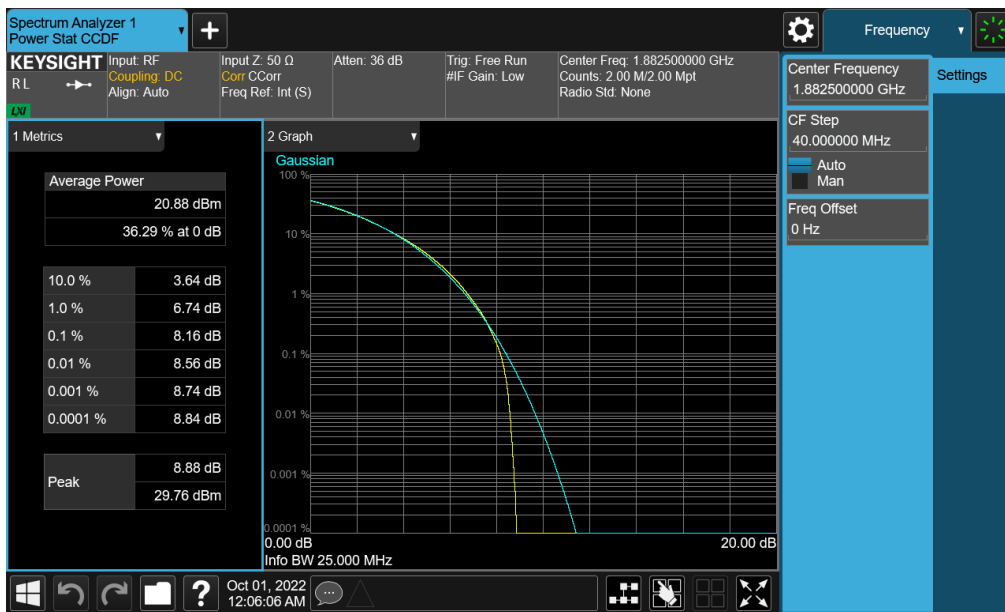


Plot 7-327. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 190 of 236



Plot 7-328. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

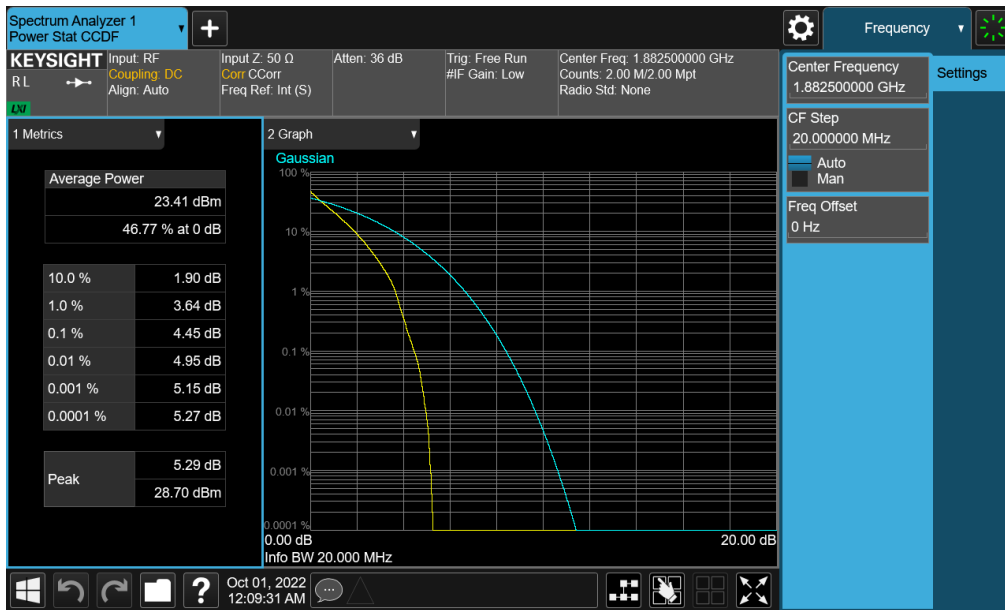


Plot 7-329. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 191 of 236

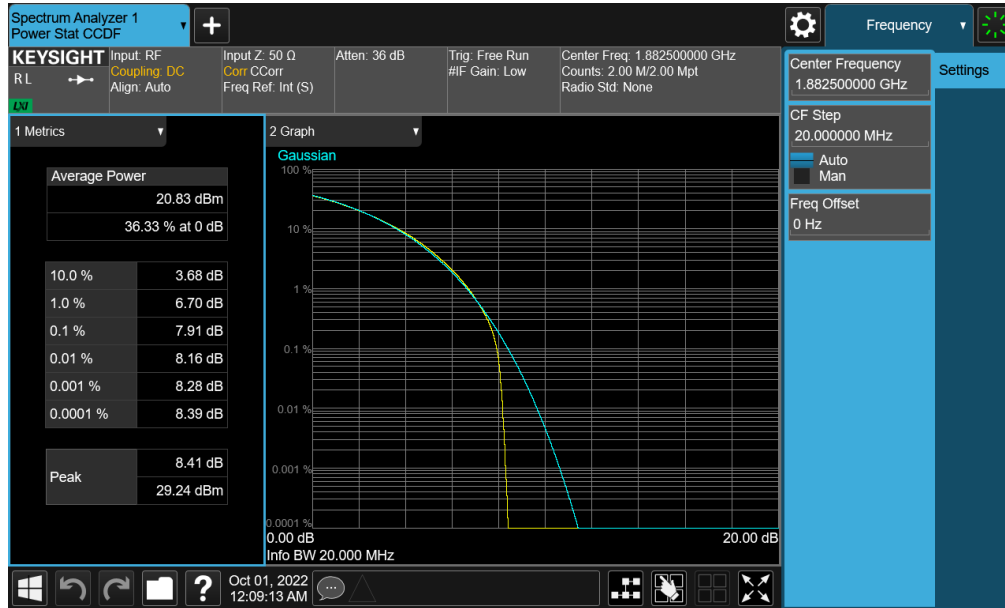


Plot 7-330. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM 256-QAM - Full RB - Ant F)



Plot 7-331. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 192 of 236



Plot 7-332. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - Ant F)

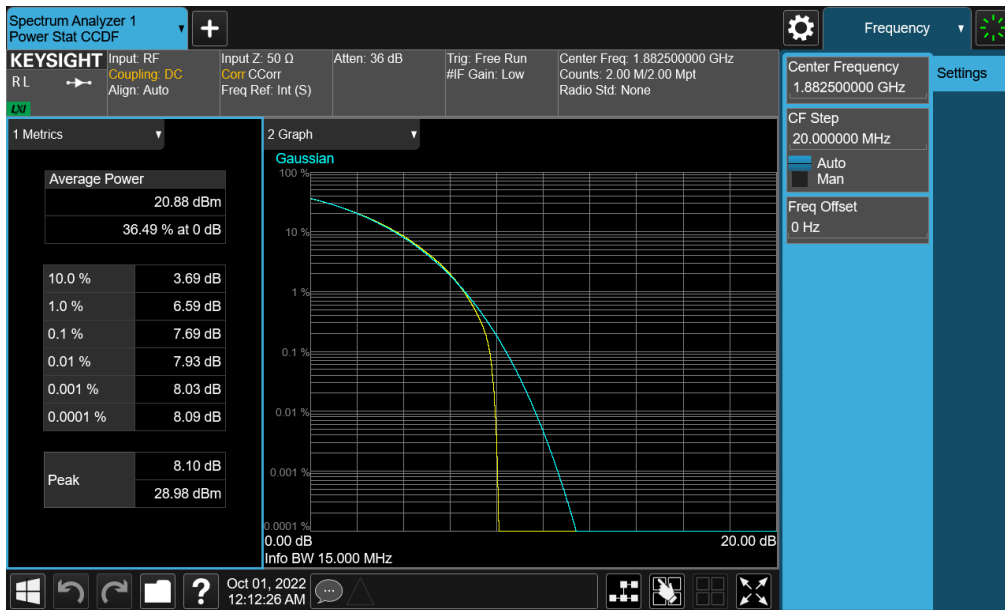


Plot 7-333. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 193 of 236

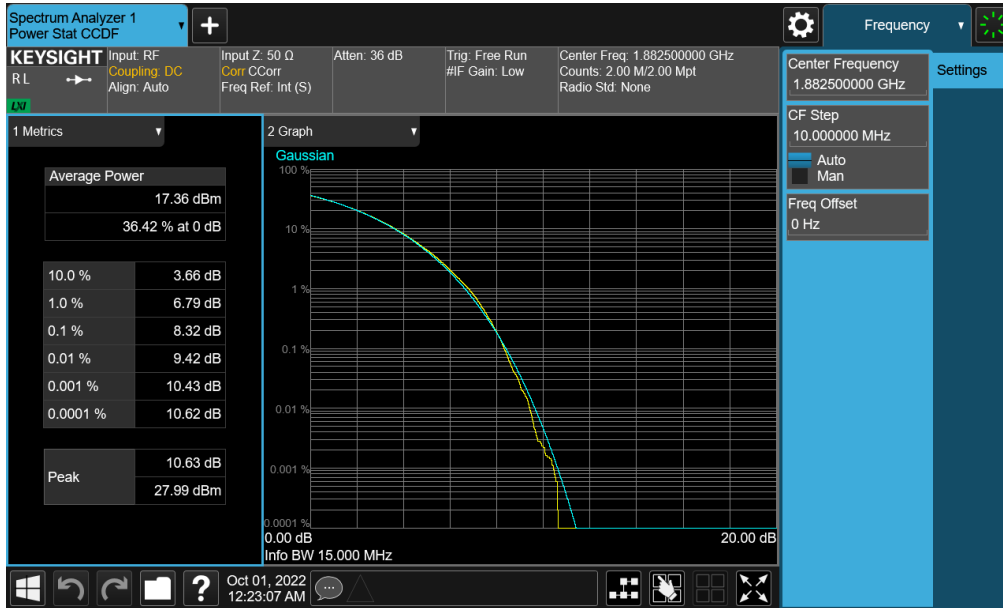


Plot 7-334. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)



Plot 7-335. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 194 of 236



Plot 7-336. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - Ant F)



Plot 7-337. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-02.A3L	Test Dates: 09/02/2022 - 11/10/2022	EUT Type: Portable Handset	Page 195 of 236