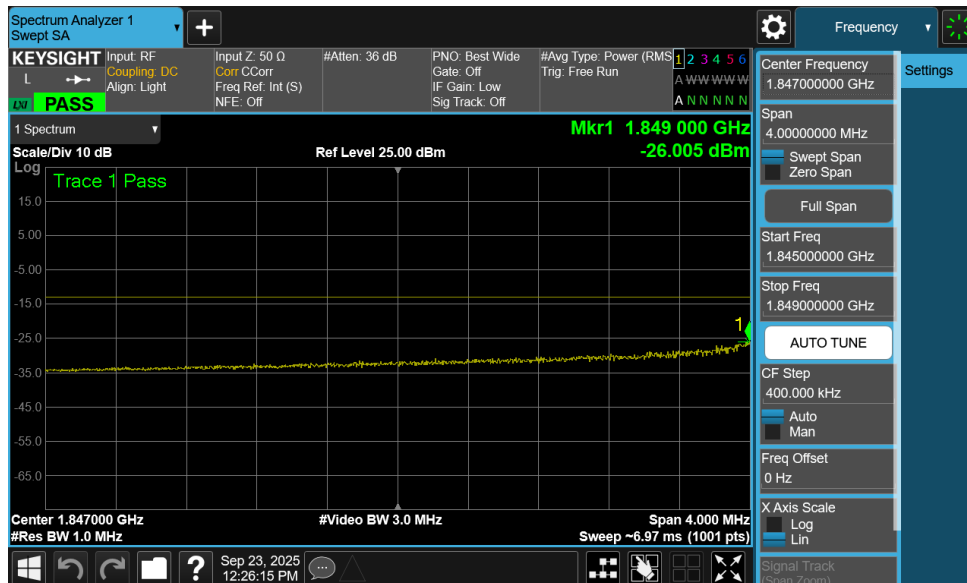
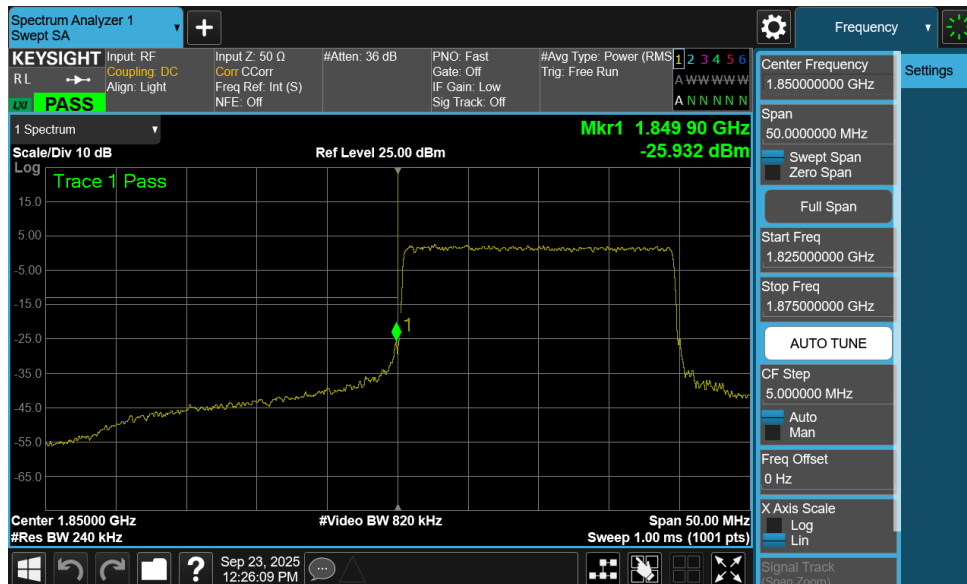
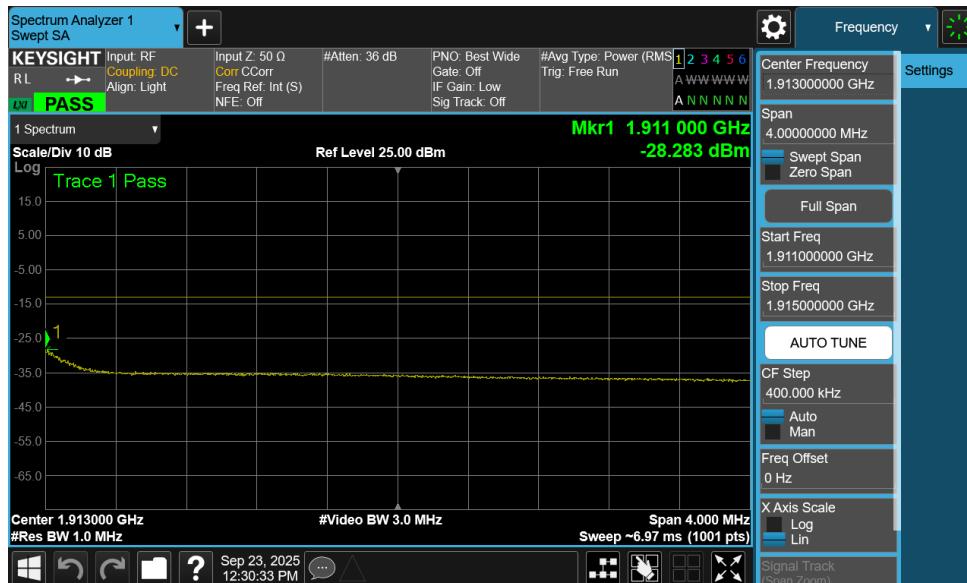
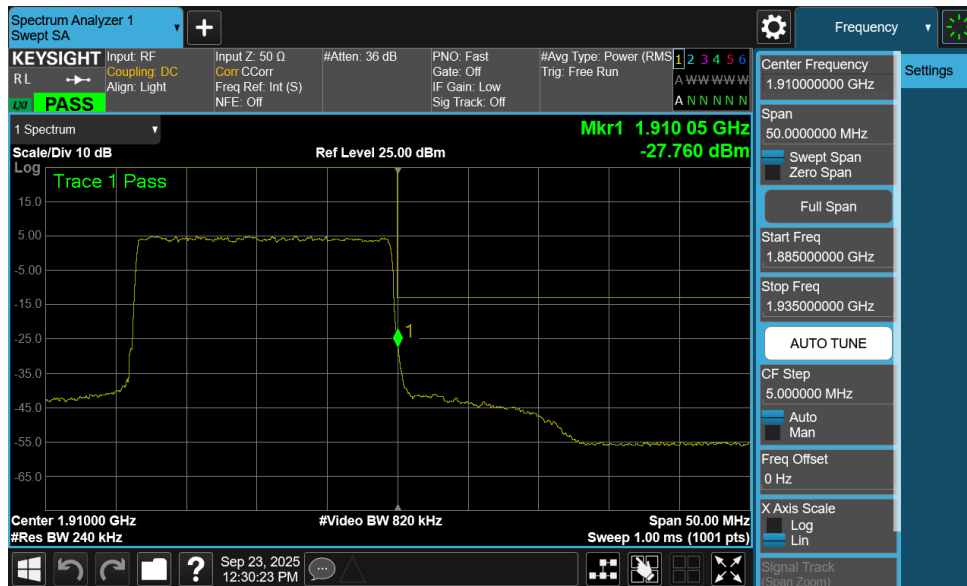
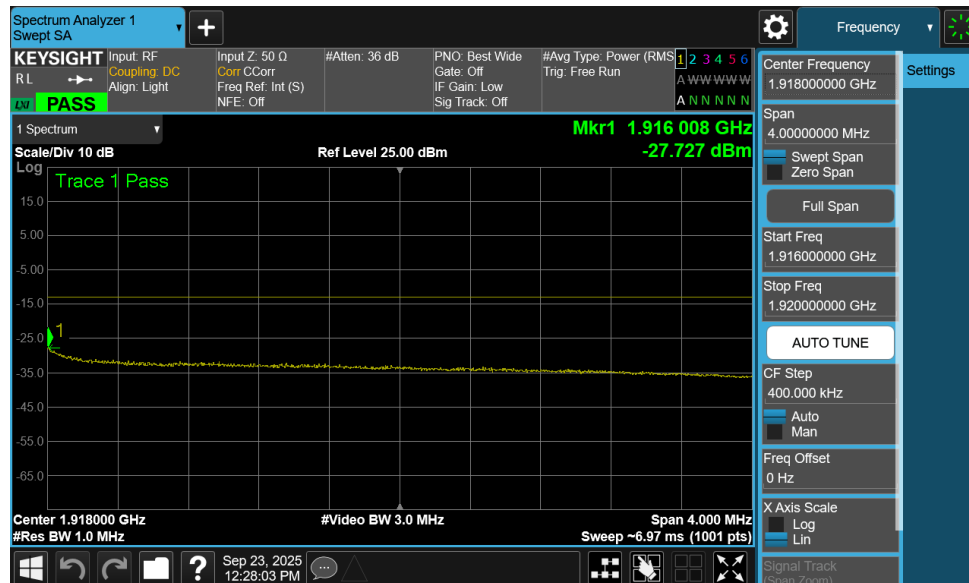
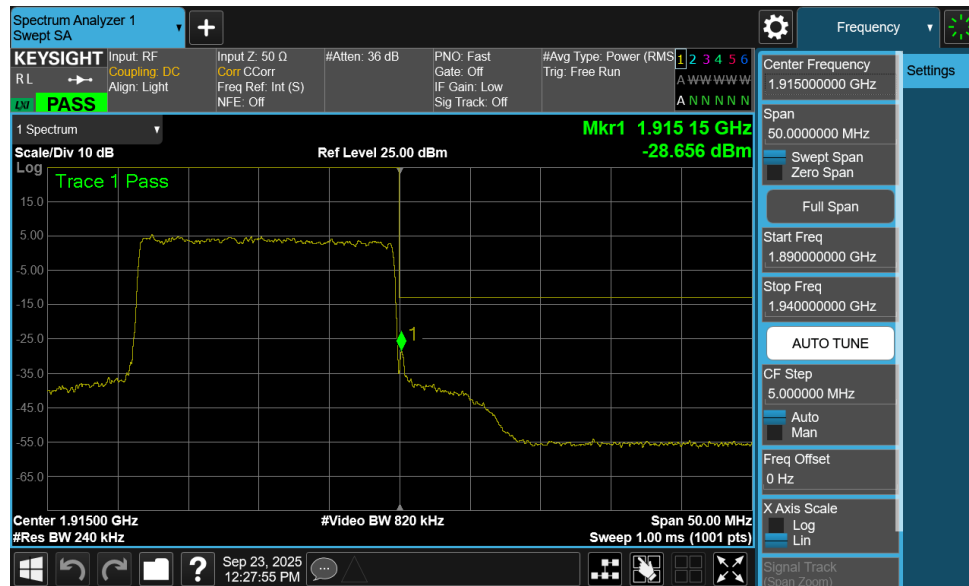




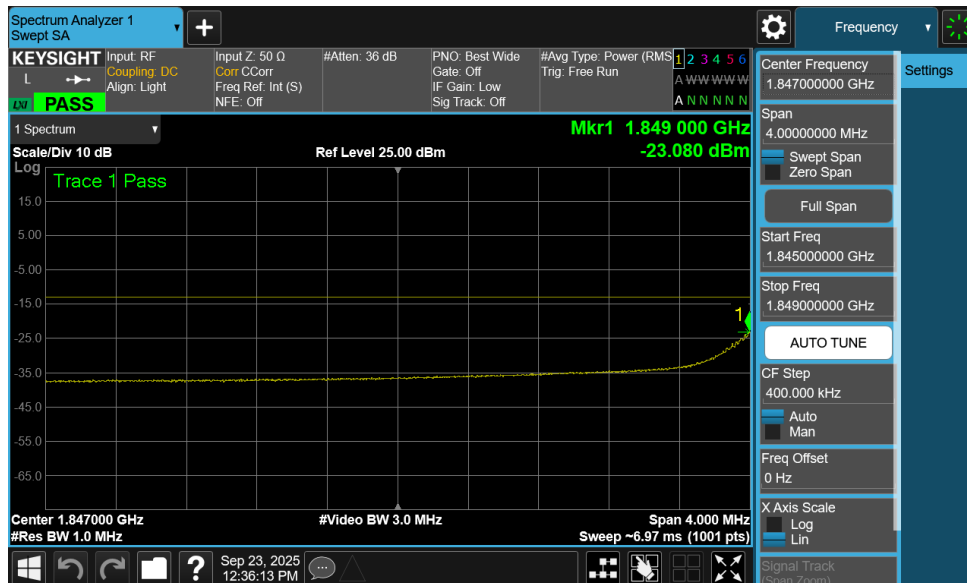
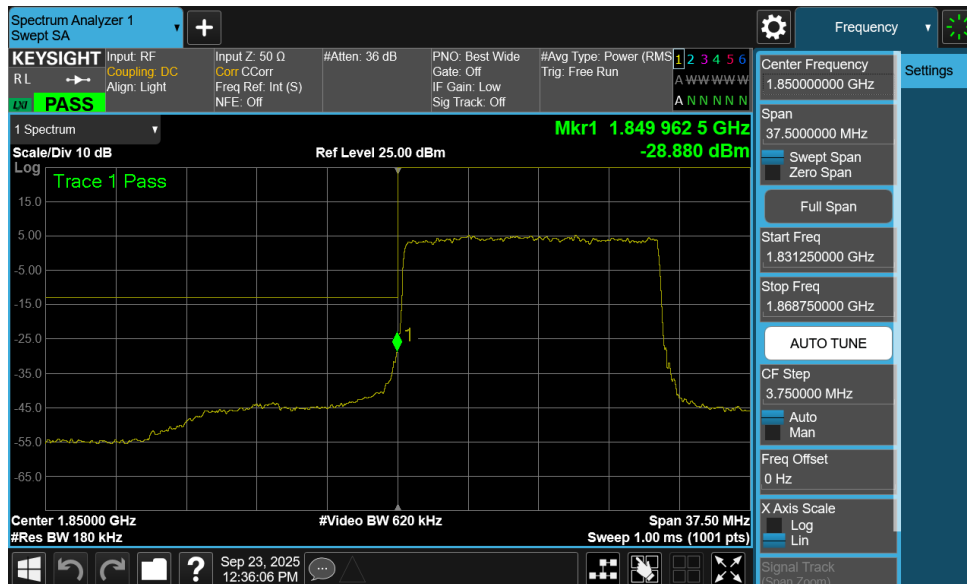
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 169 of 247



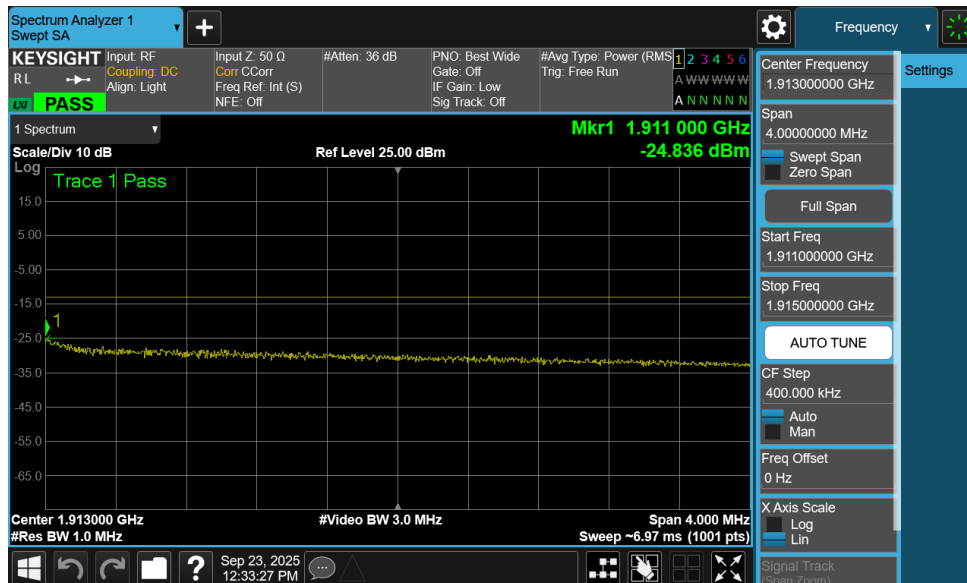
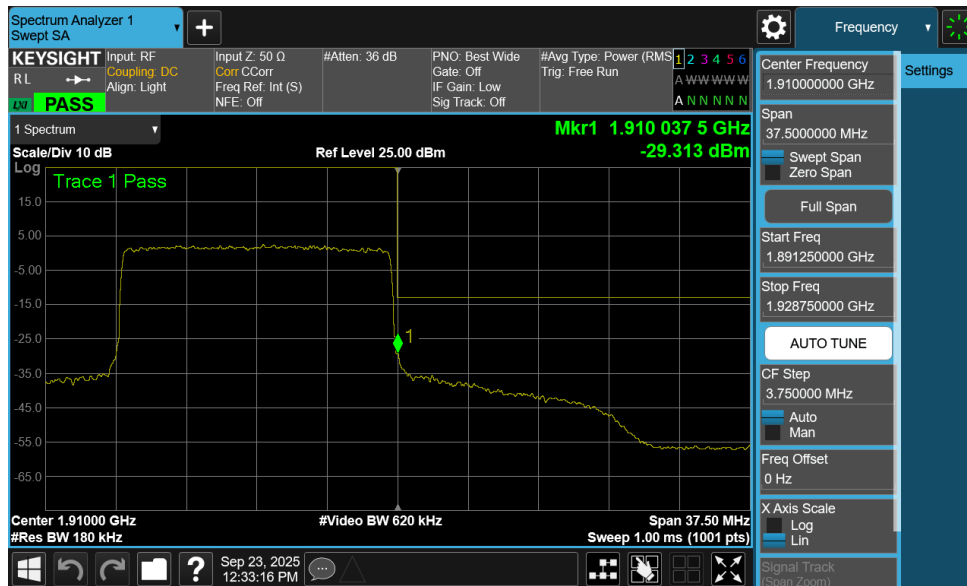
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 170 of 247



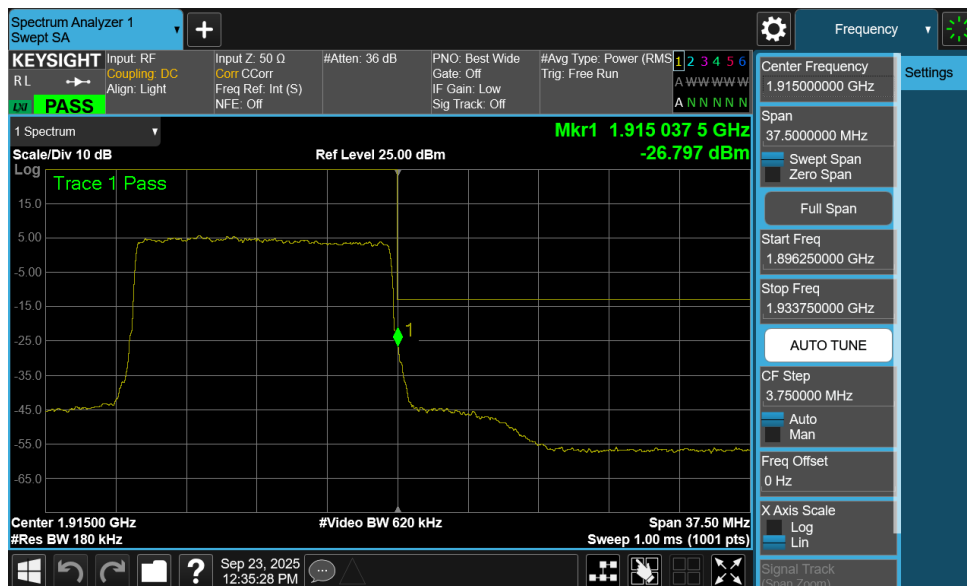
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 171 of 247



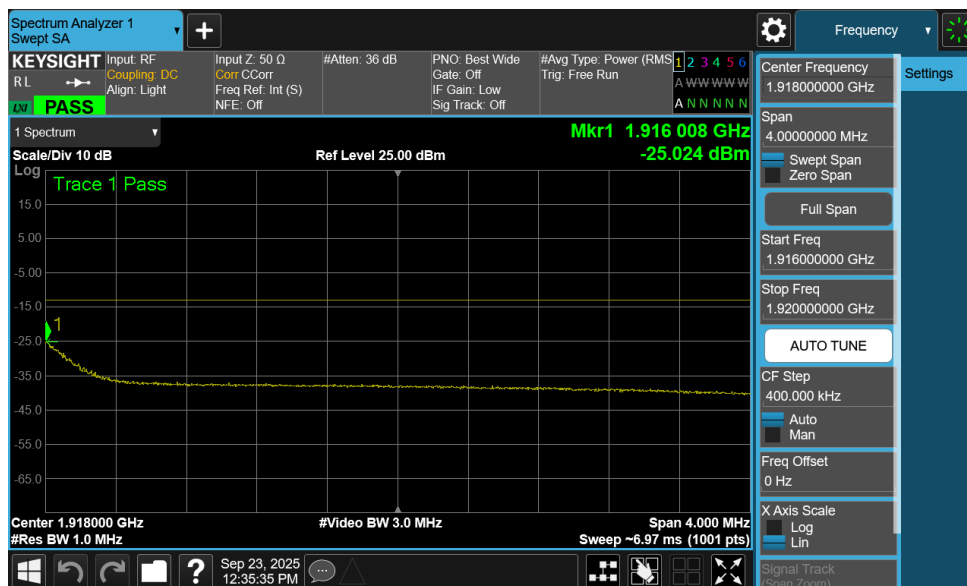
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 172 of 247



FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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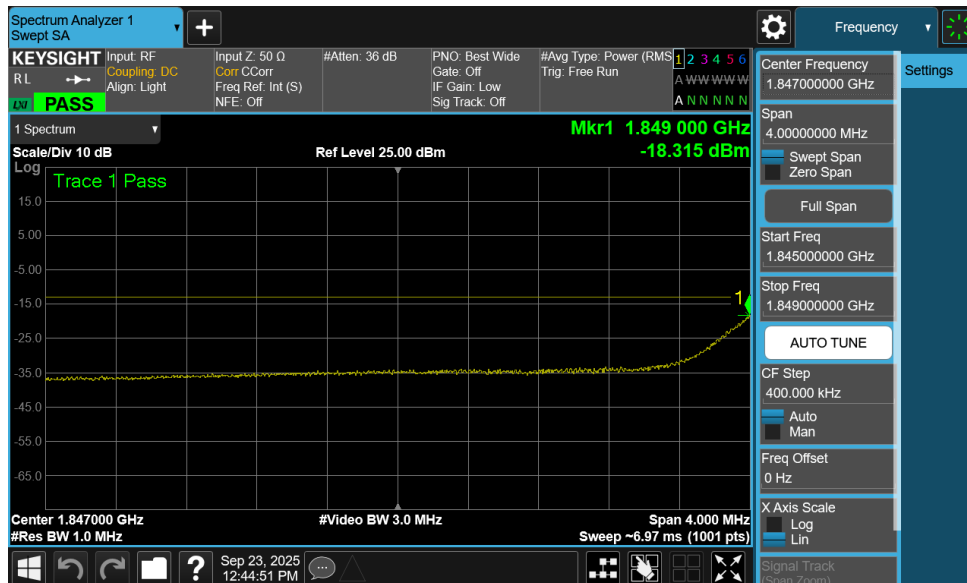
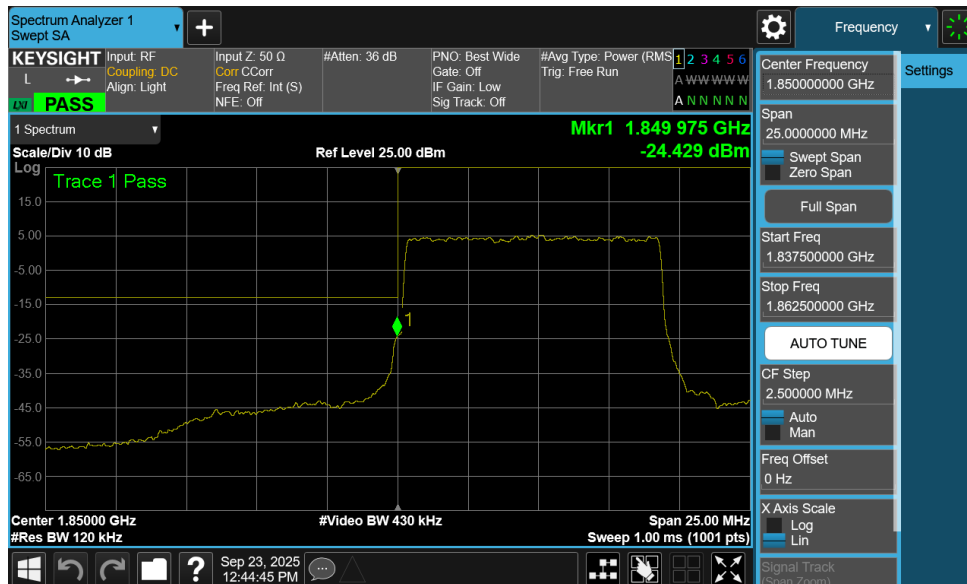


Plot 7-272. Upper Band Edge Plot (NR Band n25 - 15MHz QPSK – Full RB - Ant2)

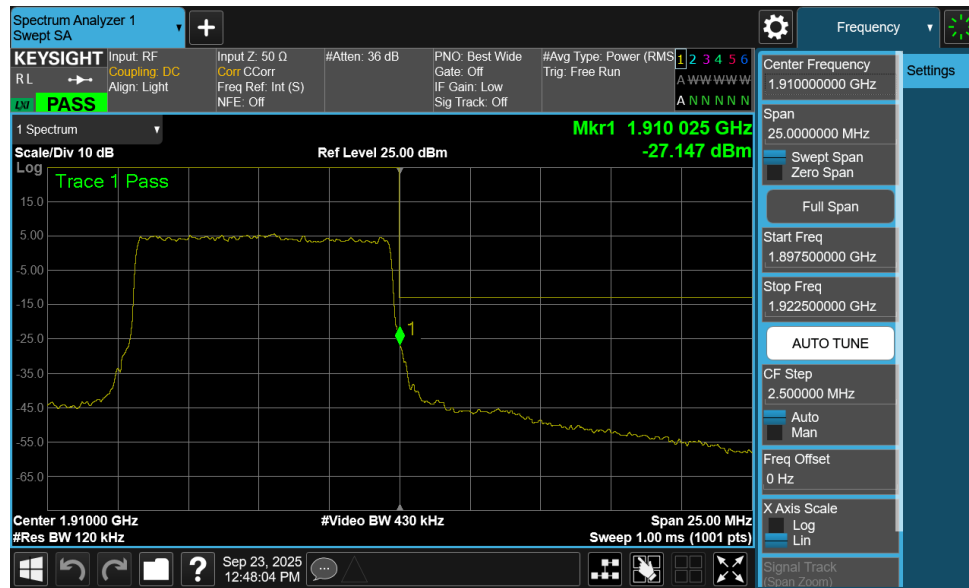


Plot 7-273. Extended Upper Band Edge Plot (NR Band n25 - 15MHz QPSK – Full RB - Ant2)

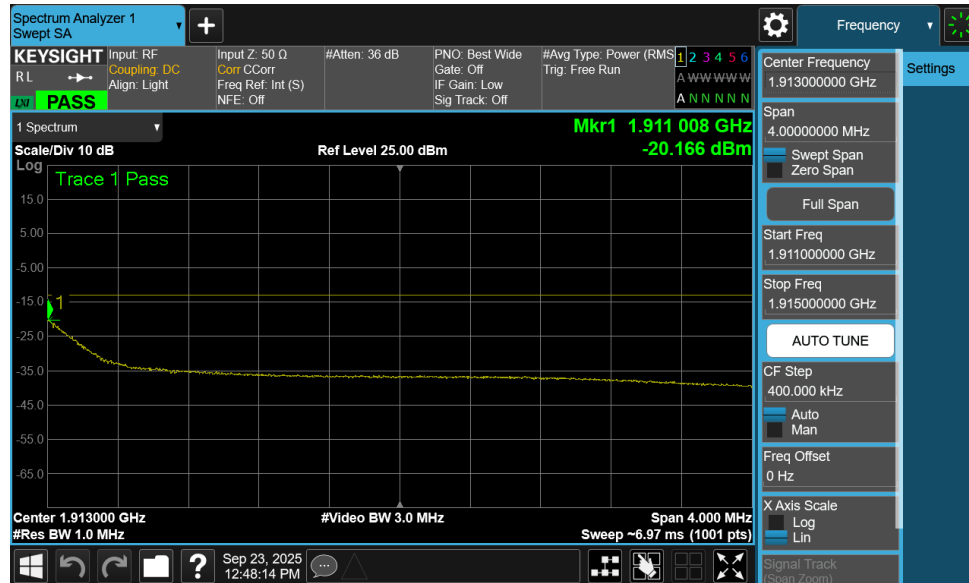
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 174 of 247



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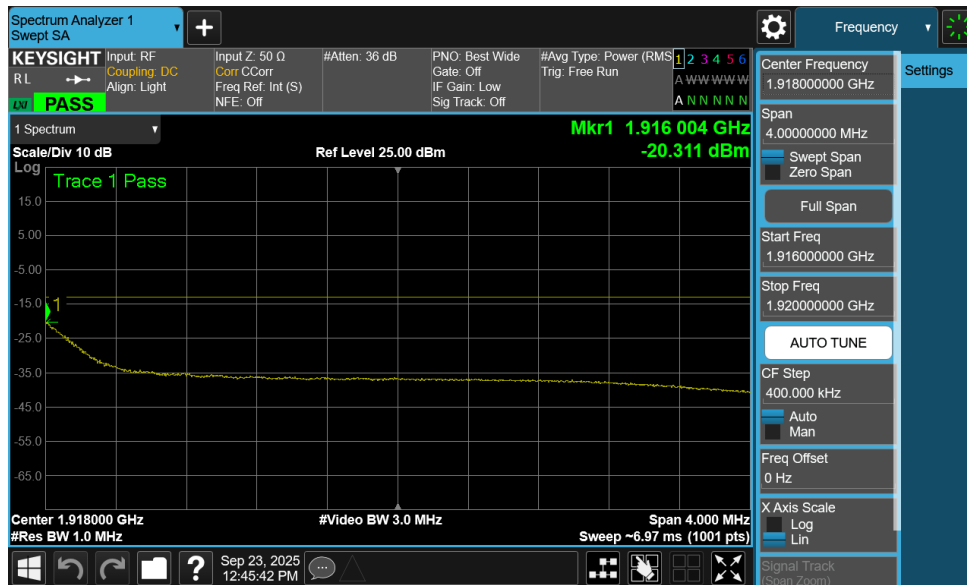
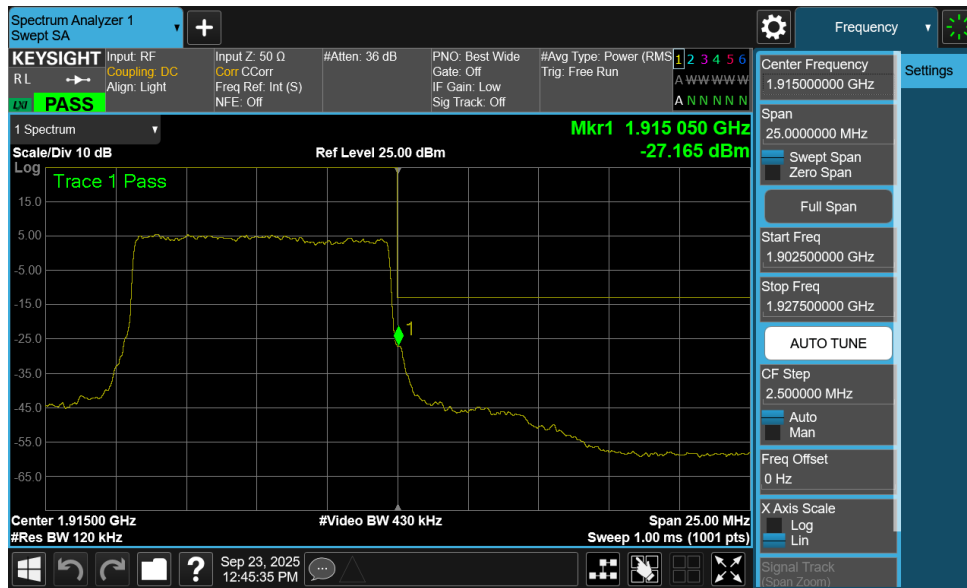


Plot 7-276. Upper Band Edge Plot (NR Band n2 - 10MHz QPSK – Full RB - Ant2)

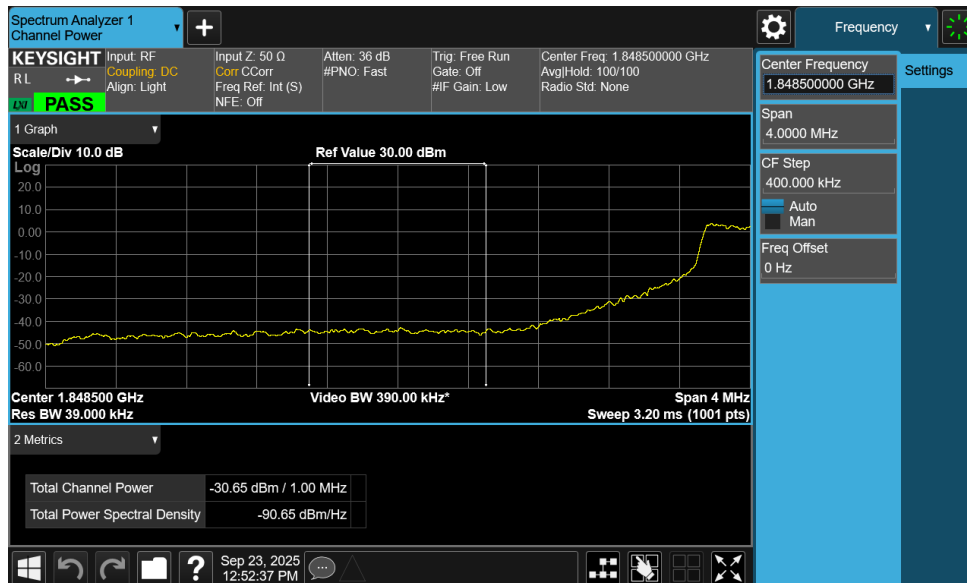
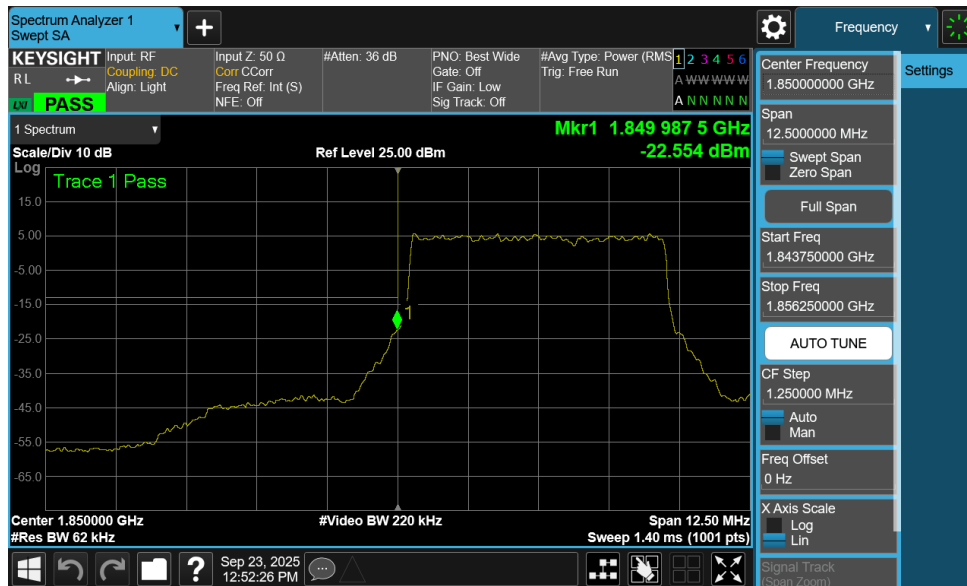


Plot 7-277. Extended Upper Band Edge Plot (NR Band n2 - 10MHz QPSK – Full RB - Ant2)

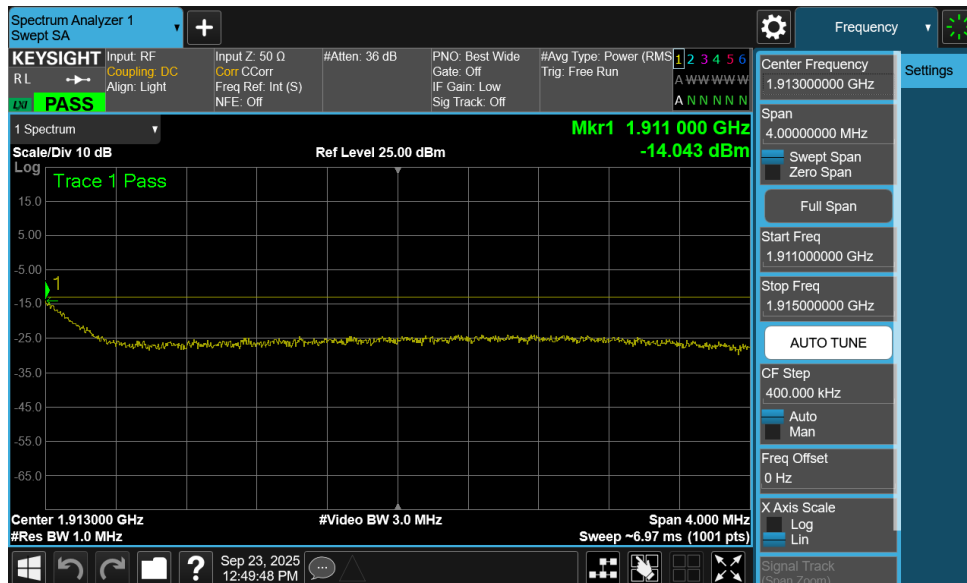
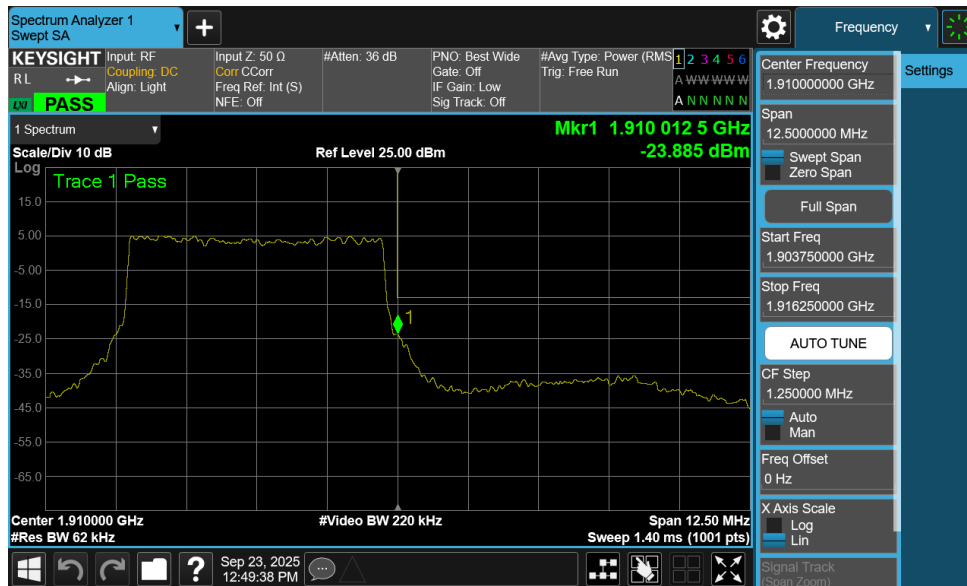
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 176 of 247



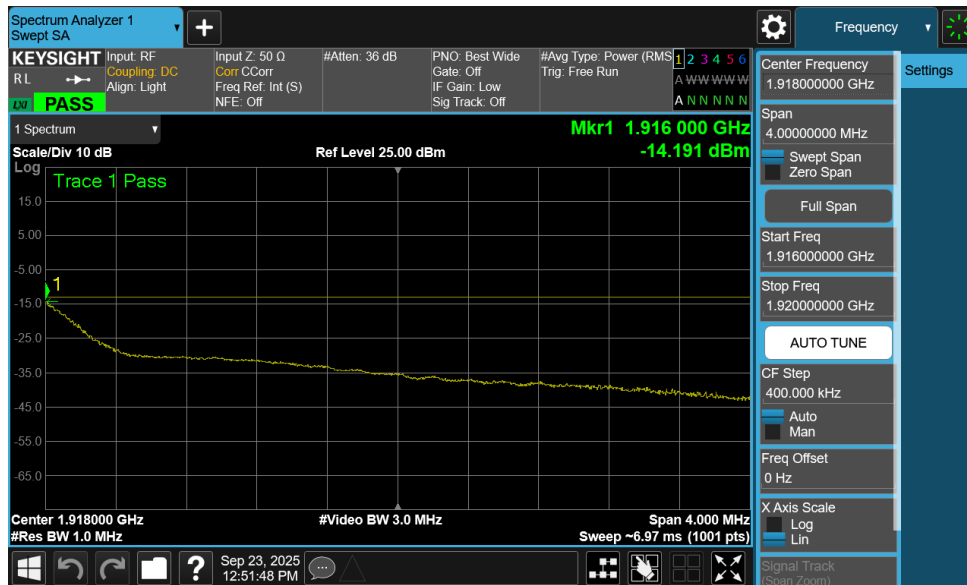
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 177 of 247



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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.

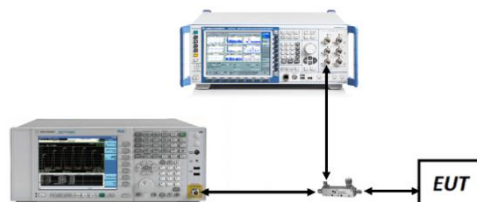


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 181 of 247

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM-PCS	N/A	GMSK	27.32	2.85	13	-10.15
GSM-PCS EDGE		8-PSK	23.43	5.57	13	-7.43
WCDMA-PCS		Spread Spectrum	23.57	2.72	13	-10.28
LTE-B25-2	20MHz	QPSK	22.52	5.32	13	-7.68
		256QAM	18.50	6.59	13	-6.41
	15MHz	QPSK	22.64	5.45	13	-7.55
		256QAM	18.56	6.55	13	-6.45
	10MHz	QPSK	22.51	5.34	13	-7.66
		256QAM	18.50	6.55	13	-6.45
	5MHz	QPSK	22.55	5.43	13	-7.57
		256QAM	18.57	6.63	13	-6.37
	3MHz	QPSK	22.50	5.33	13	-7.67
		256QAM	18.49	6.85	13	-6.16
	1.4MHz	QPSK	22.52	5.22	13	-7.78
		256QAM	18.53	6.47	13	-6.53

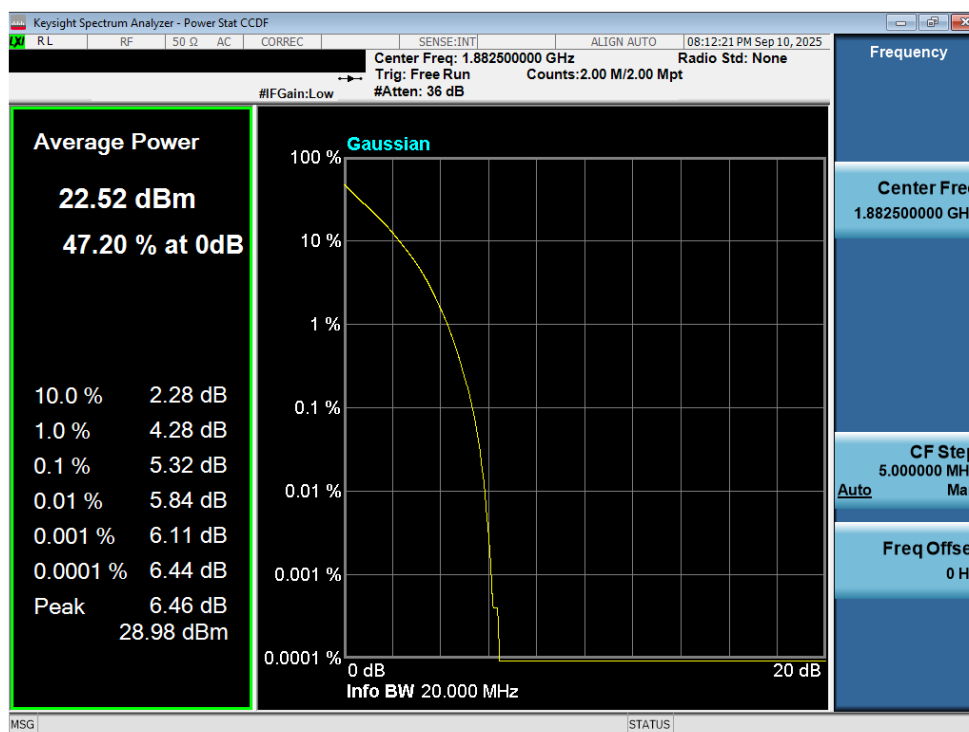
Table 7-18. PAR Test Results – GSM/GPRS/WCDMA/LTE – Ant 1

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n25-2	40MHz	BPSK	23.45	5.07	13	-7.93
		QPSK	22.93	5.26	13	-7.74
		256QAM	19.37	6.65	13	-6.35
	30MHz	BPSK	23.45	4.50	13	-8.50
		QPSK	22.94	5.24	13	-7.76
		256QAM	19.39	6.66	13	-6.34
	25MHz	BPSK	23.43	4.69	13	-8.31
		QPSK	22.92	5.27	13	-7.73
		256QAM	19.36	6.60	13	-6.40
	20MHz	BPSK	23.39	4.41	13	-8.59
		QPSK	22.88	5.10	13	-7.90
		256QAM	19.34	6.59	13	-6.41
	15MHz	BPSK	22.86	5.10	13	-7.90
		QPSK	22.93	5.03	13	-7.97
		256QAM	19.38	6.56	13	-6.44
	10MHz	BPSK	23.40	4.41	13	-8.59
		QPSK	22.89	5.39	13	-7.61
		256QAM	19.34	6.54	13	-6.46
	5MHz	BPSK	23.39	4.51	13	-8.49
		QPSK	22.86	5.40	13	-7.60
		256QAM	19.30	7.09	13	-5.91

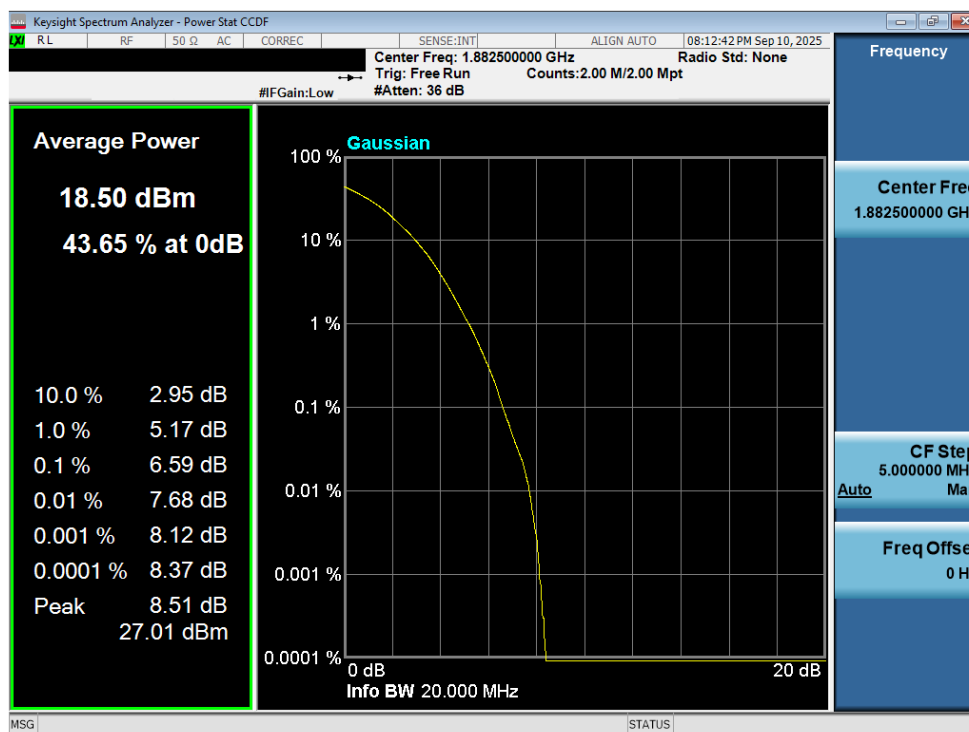
Table 7-19. PAR Test Results – NR – Ant 1

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
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LTE Band 25/2 – Ant1

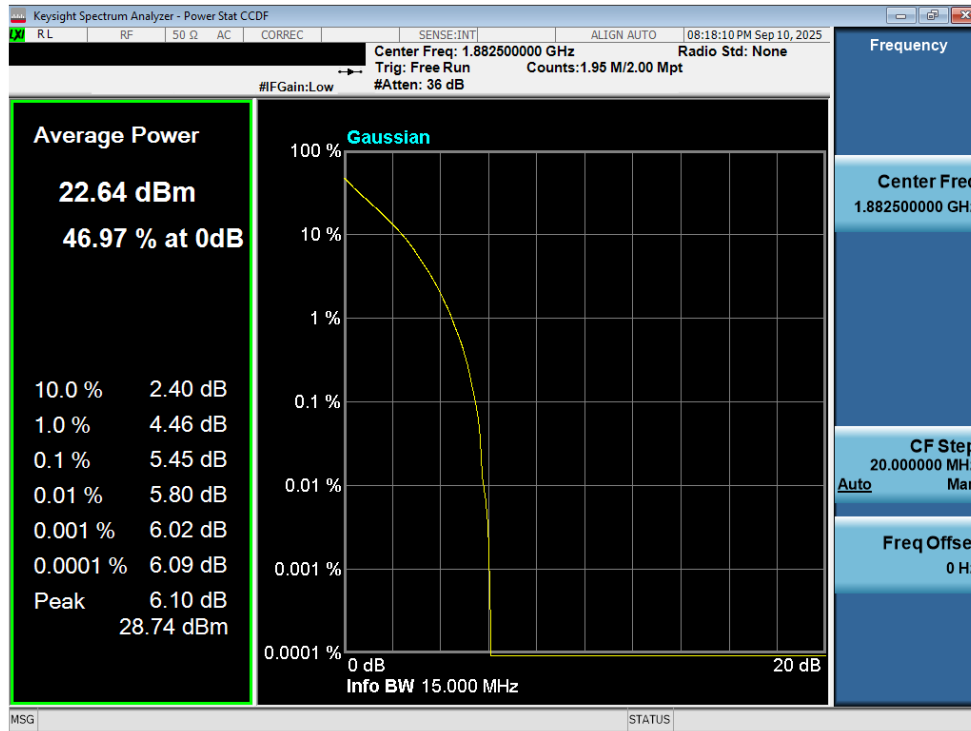


Plot 7-286. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - Ant1)

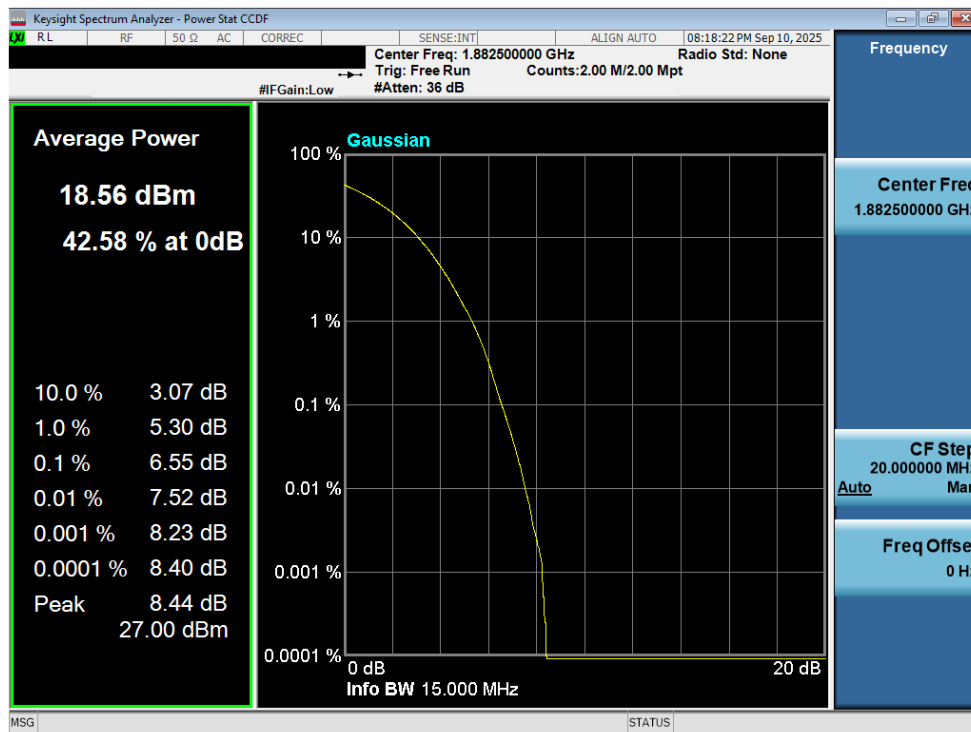


Plot 7-287. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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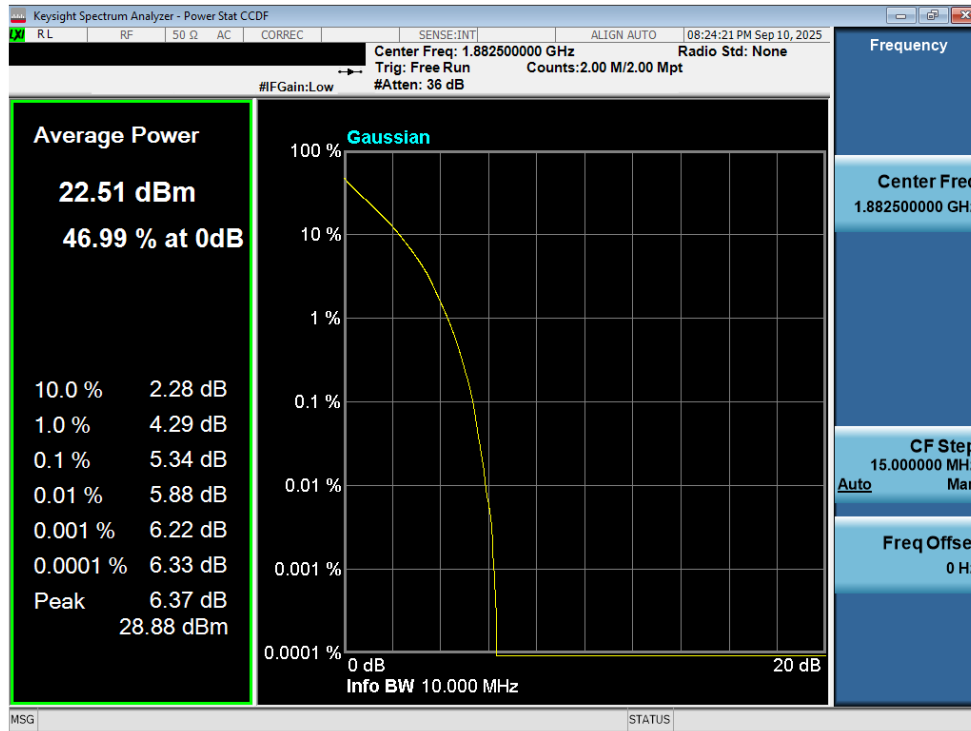


Plot 7-288. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant1)

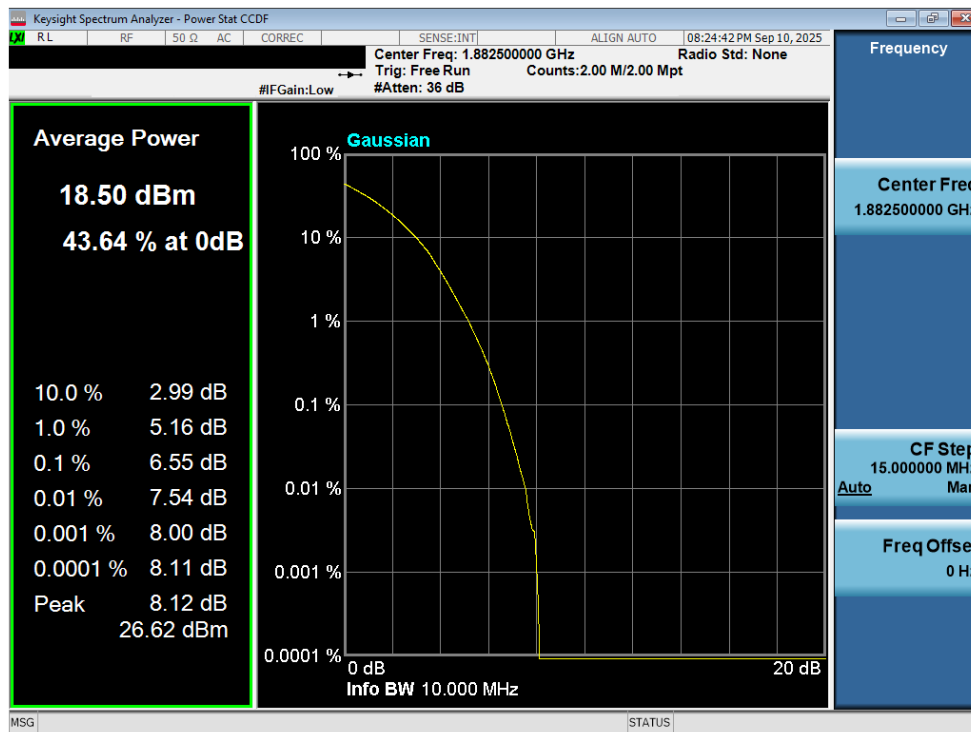


Plot 7-289. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 184 of 247

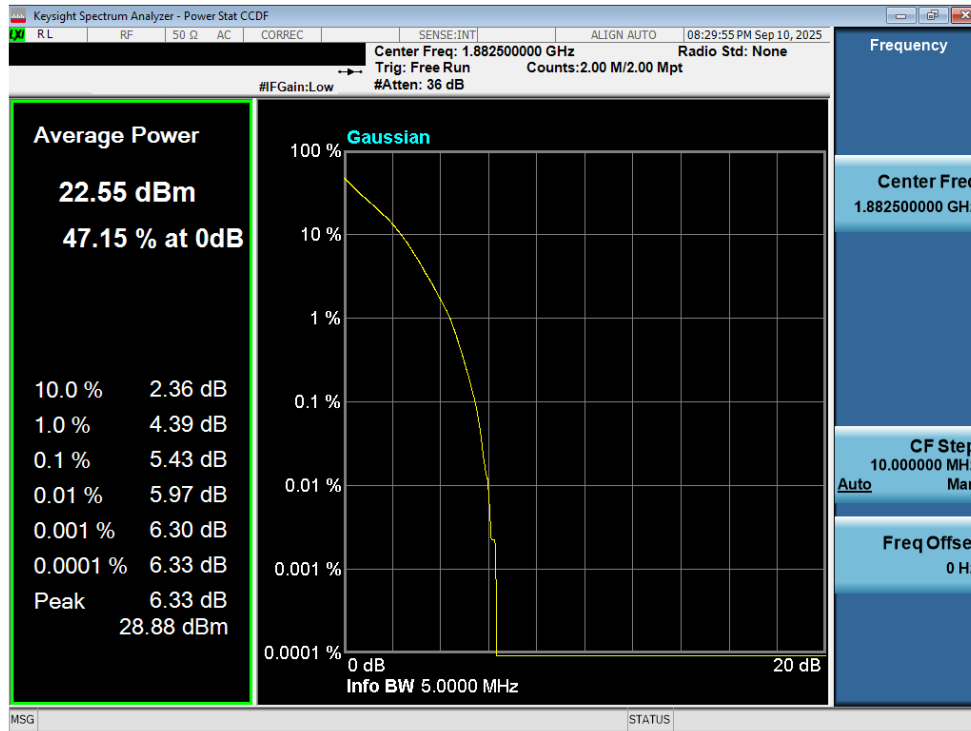


Plot 7-290. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant1)

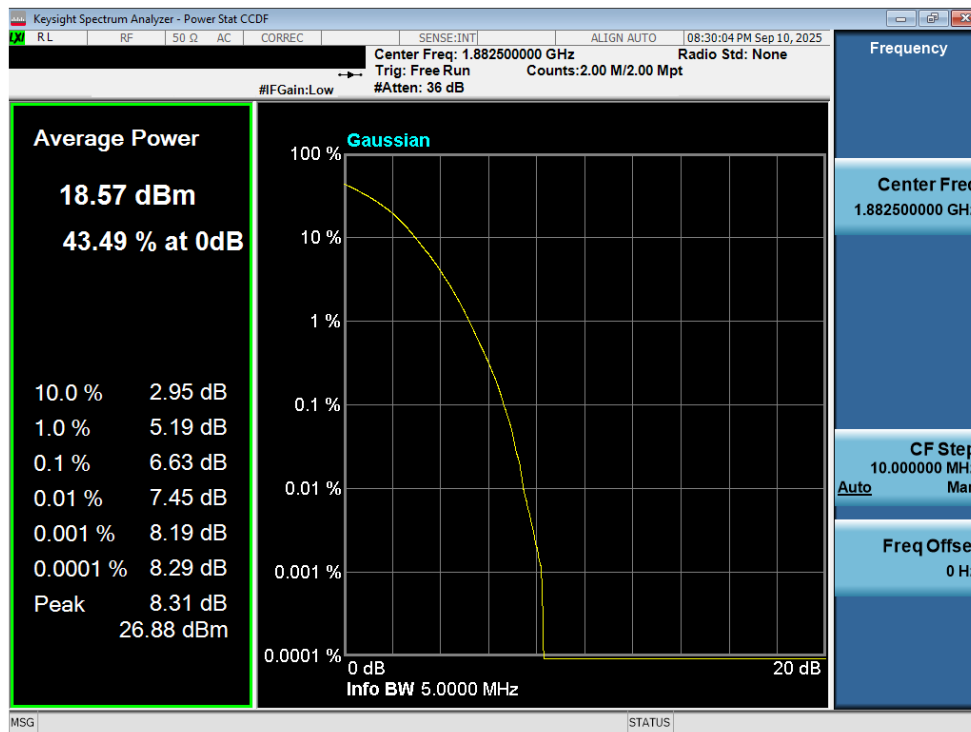


Plot 7-291. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 185 of 247

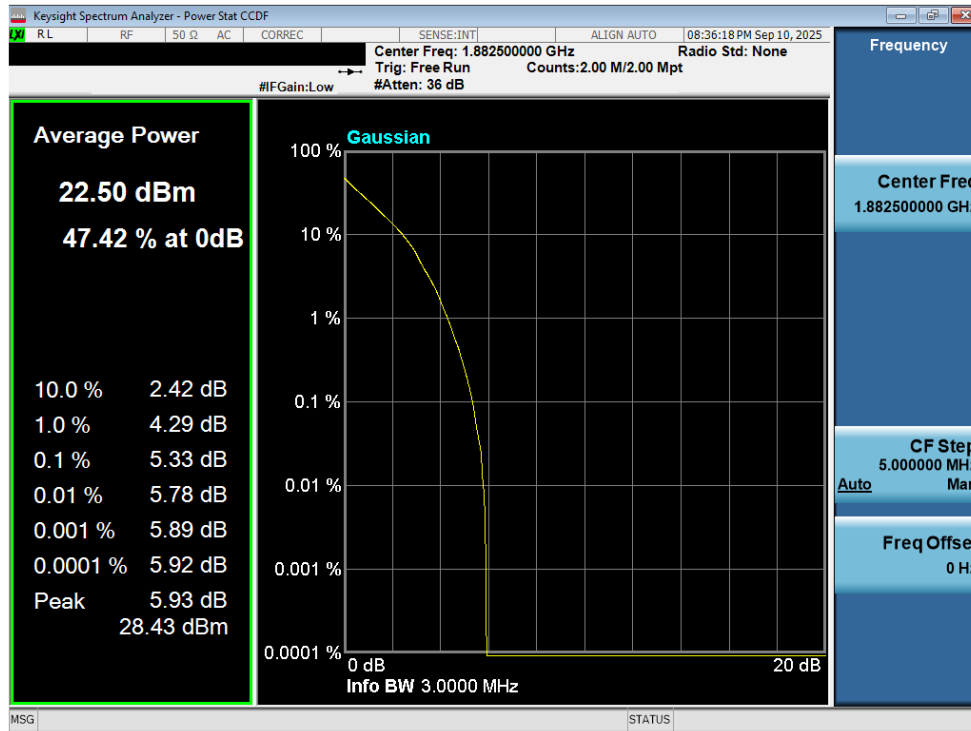


Plot 7-292. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant1)

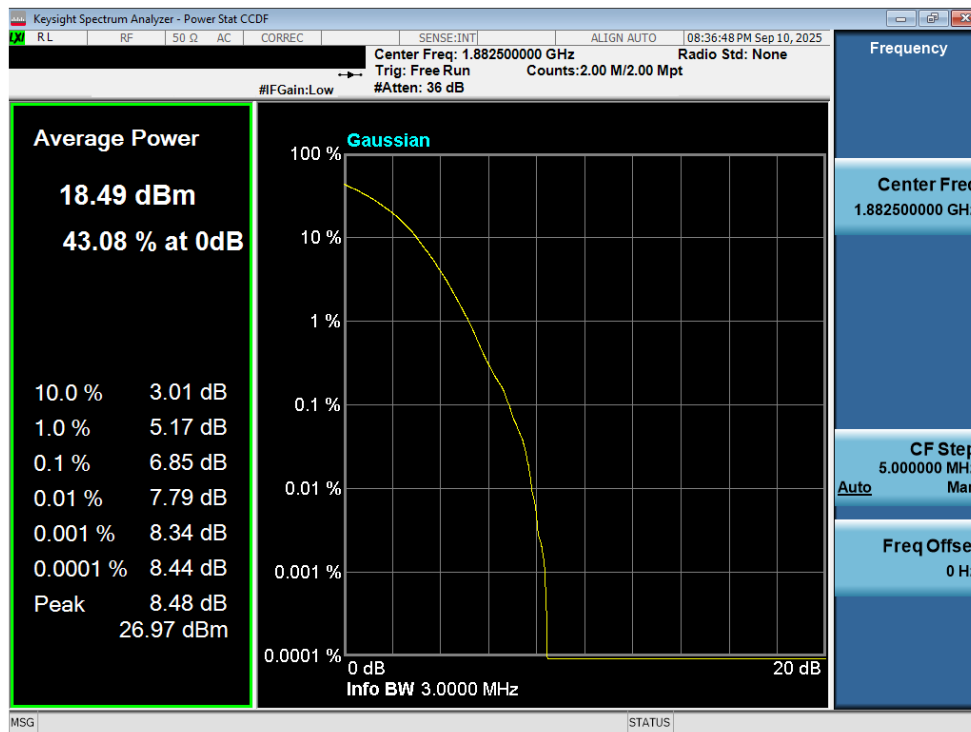


Plot 7-293. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 186 of 247

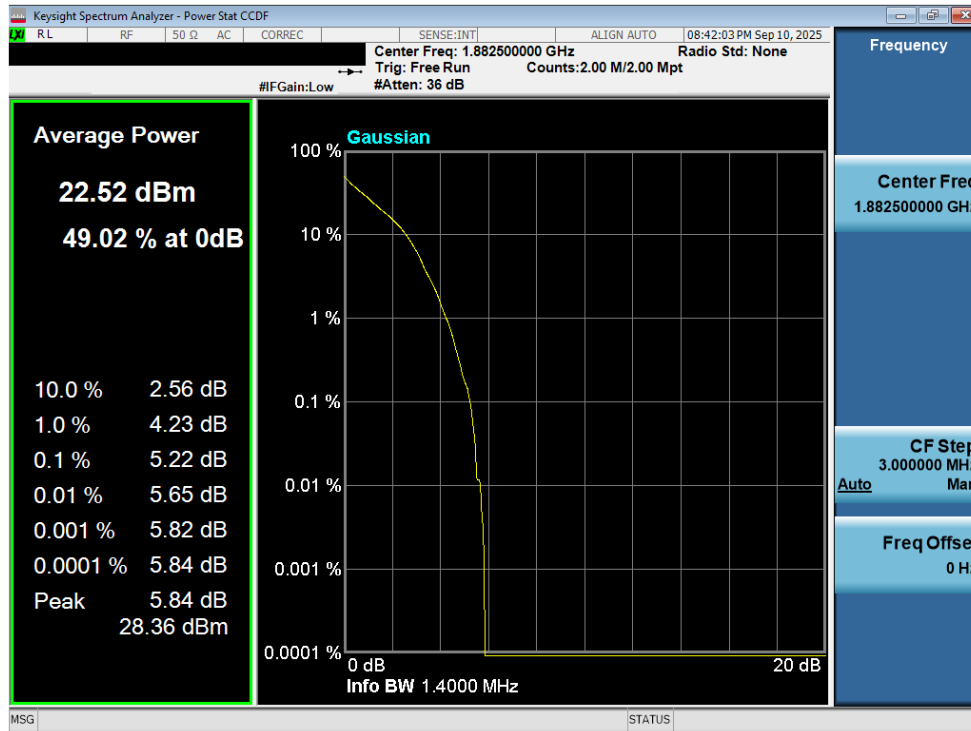


Plot 7-294. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant1)

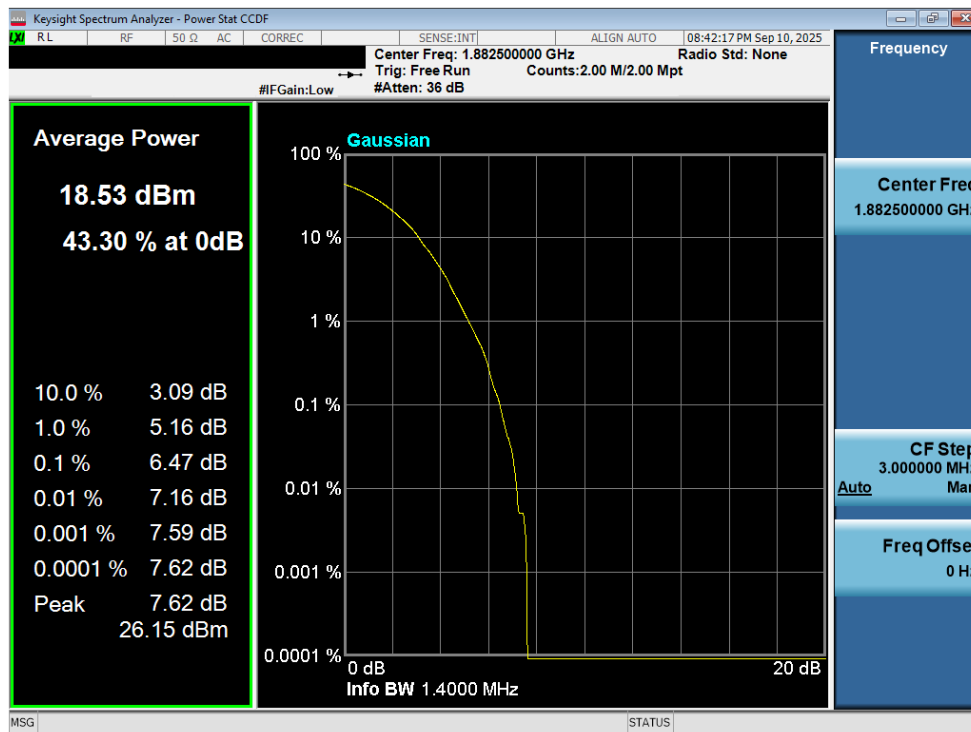


Plot 7-295. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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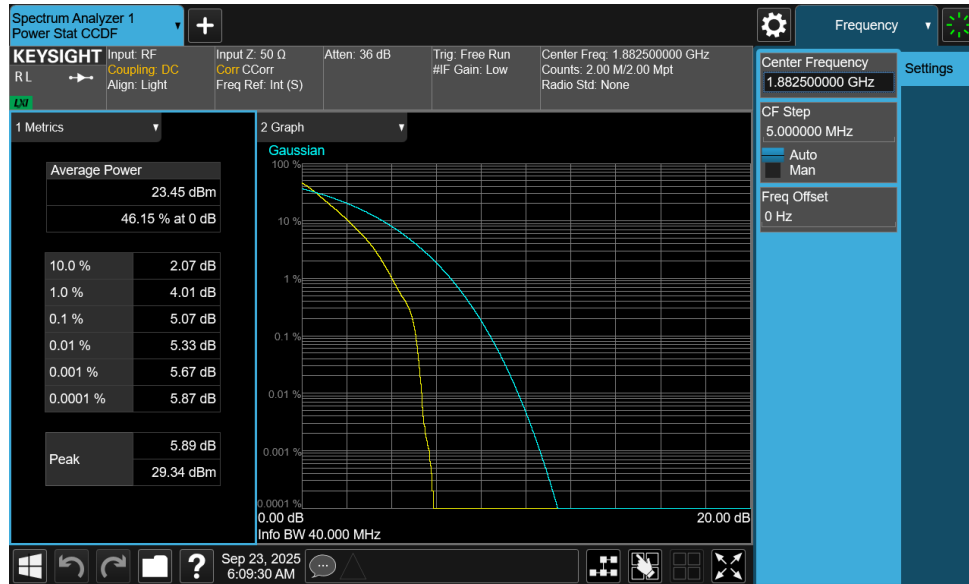
Plot 7-296. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant1)



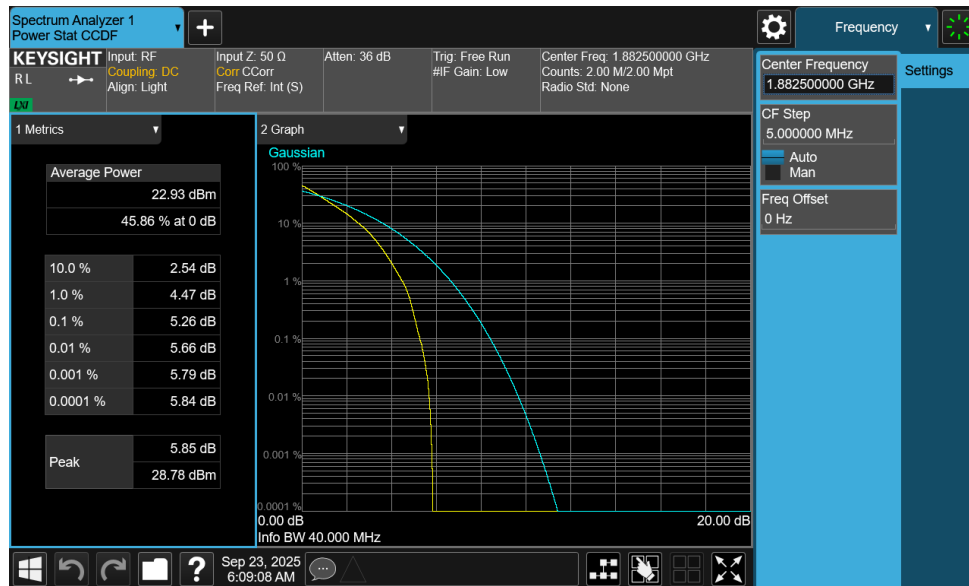
Plot 7-297. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant1

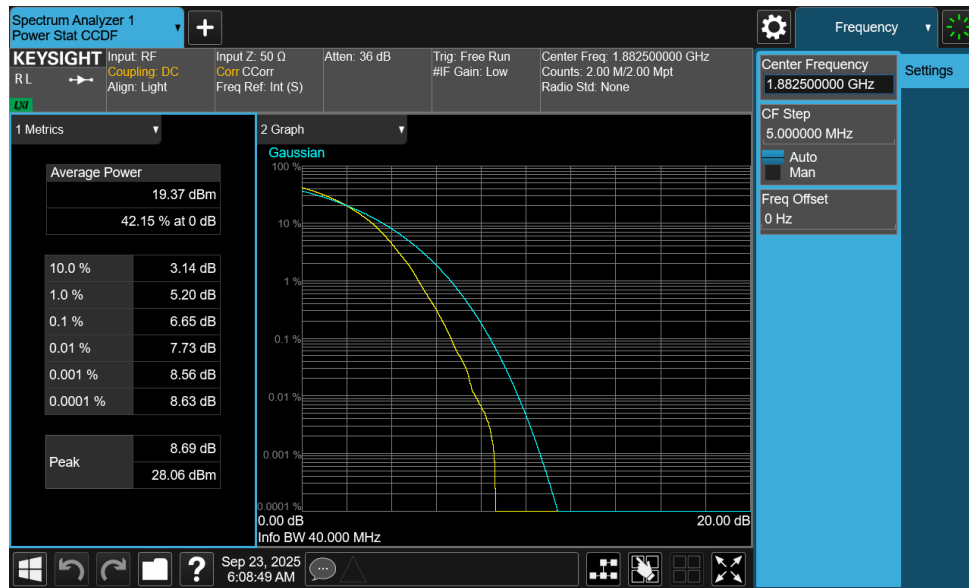


Plot 7-298. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

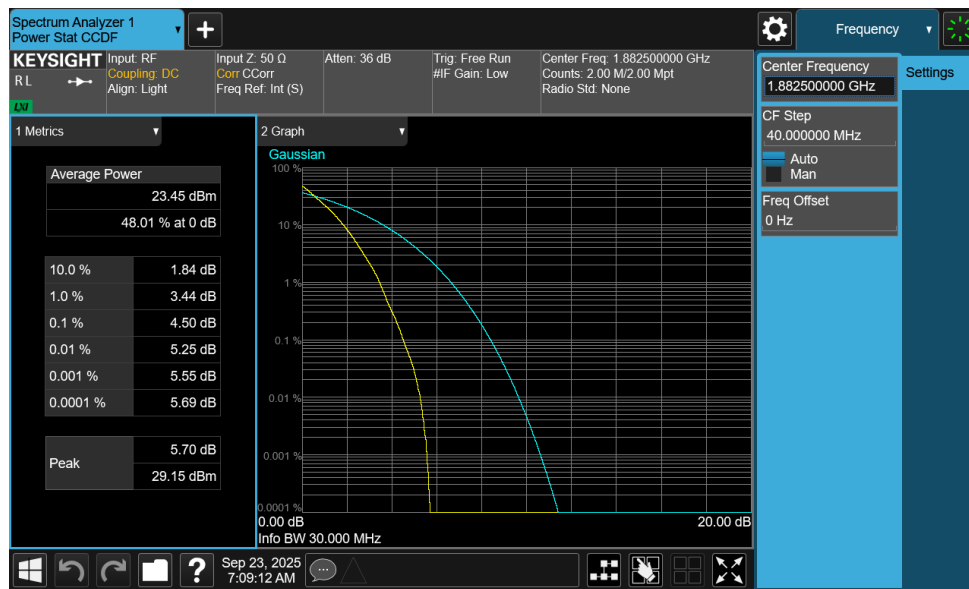


Plot 7-299. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 189 of 247

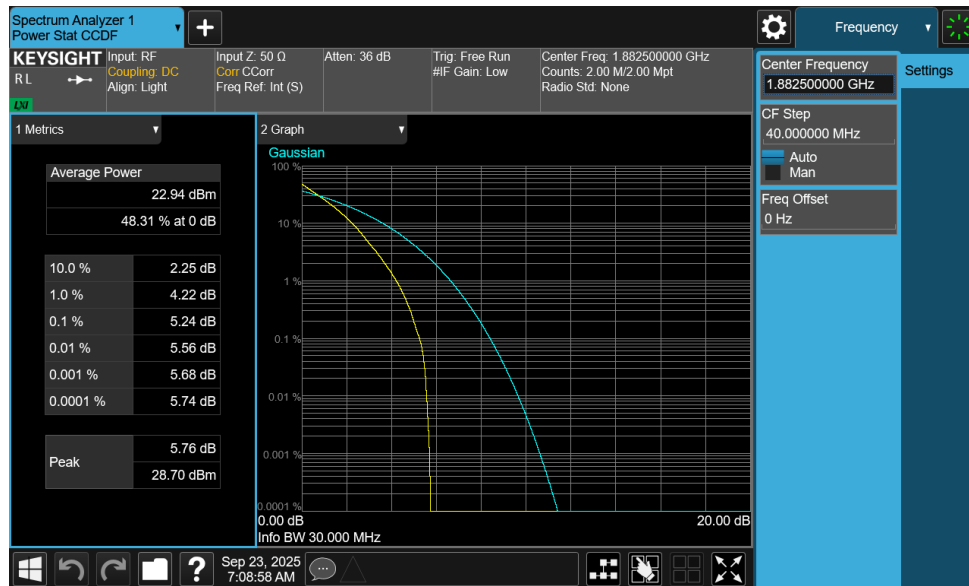


Plot 7-300. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

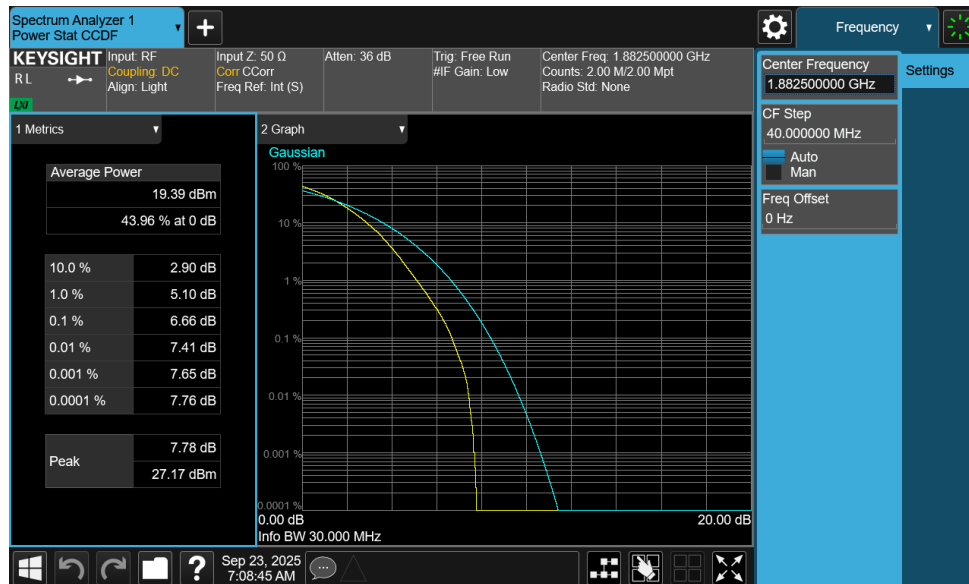


Plot 7-301. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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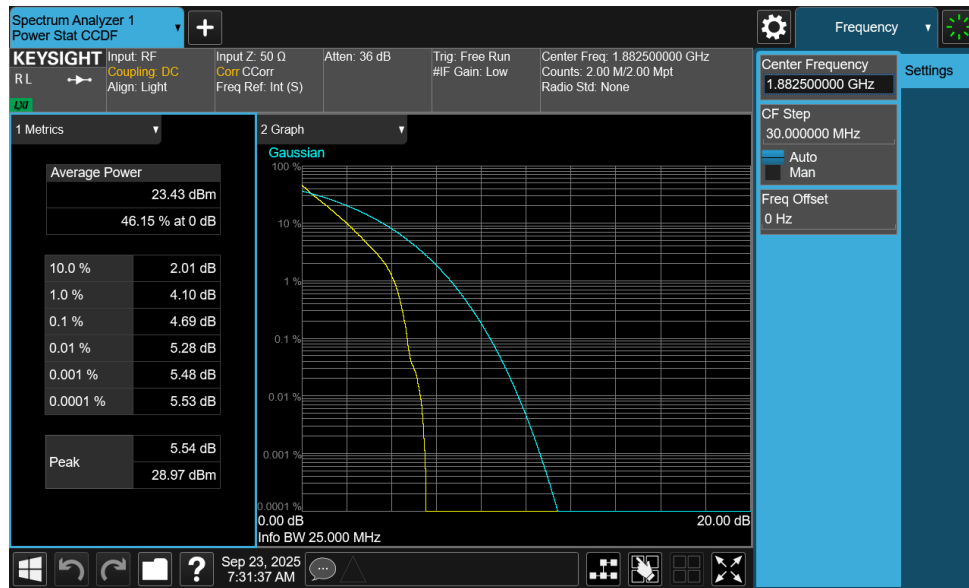


Plot 7-302. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT1)

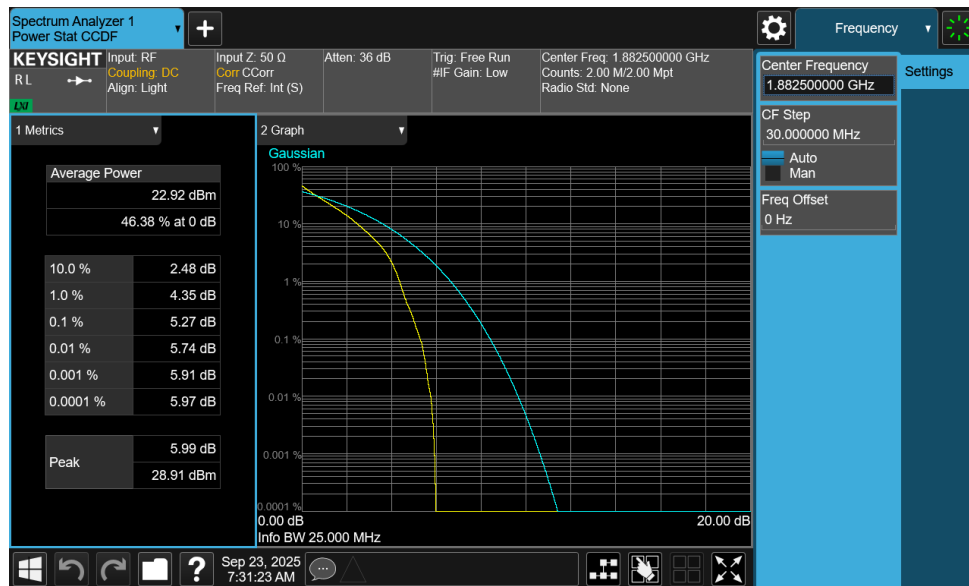


Plot 7-303. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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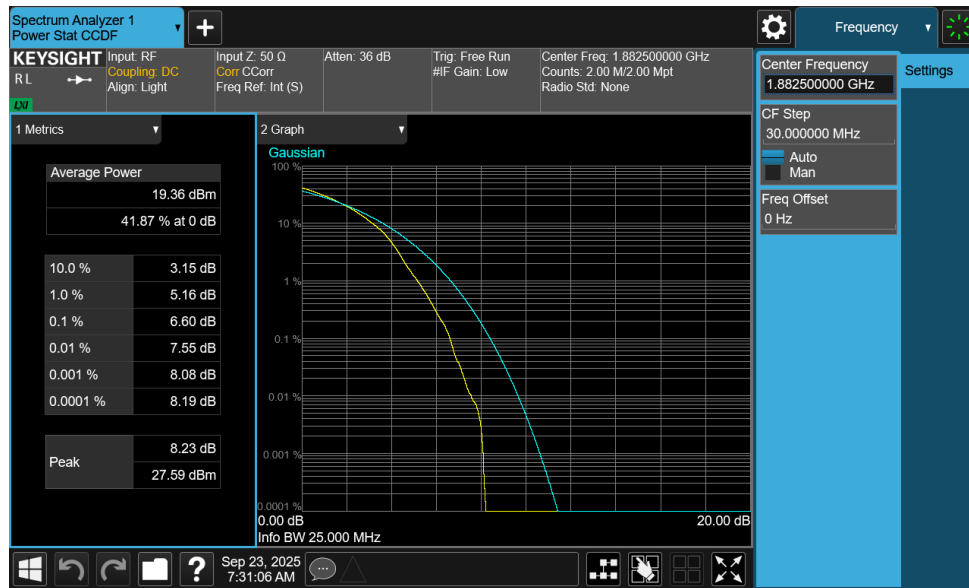


Plot 7-304. PAR Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

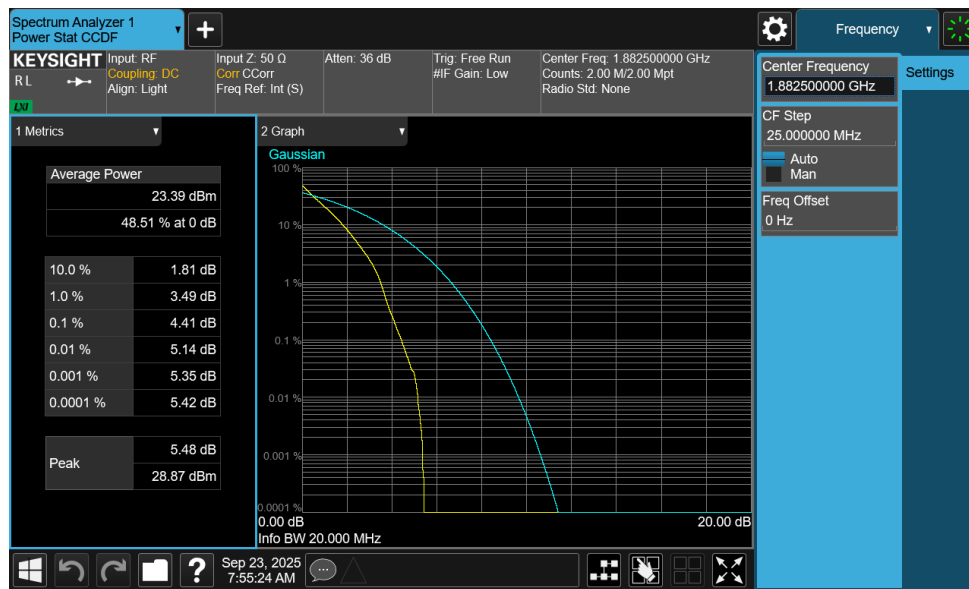


Plot 7-305. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 192 of 247

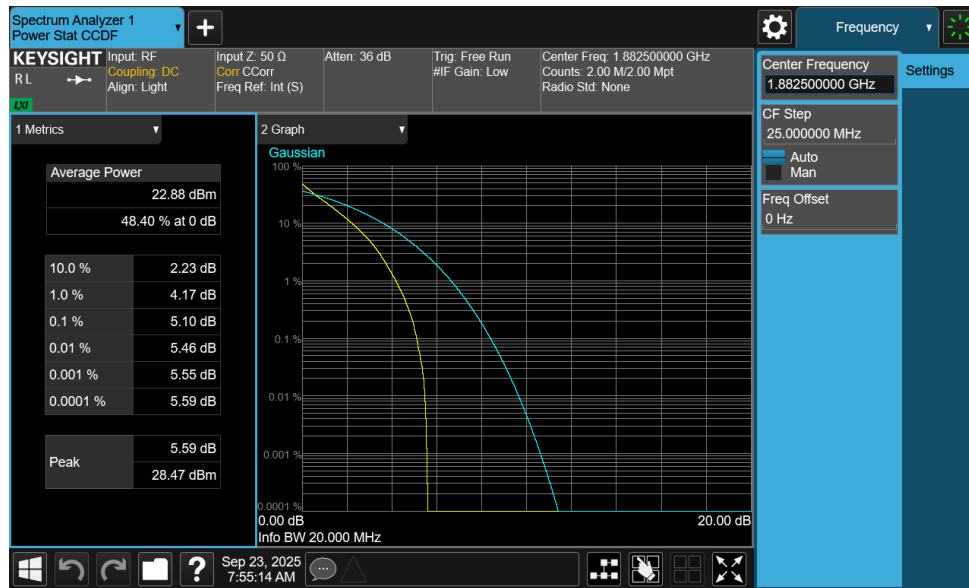


Plot 7-306. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT1)



Plot 7-307. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 193 of 247

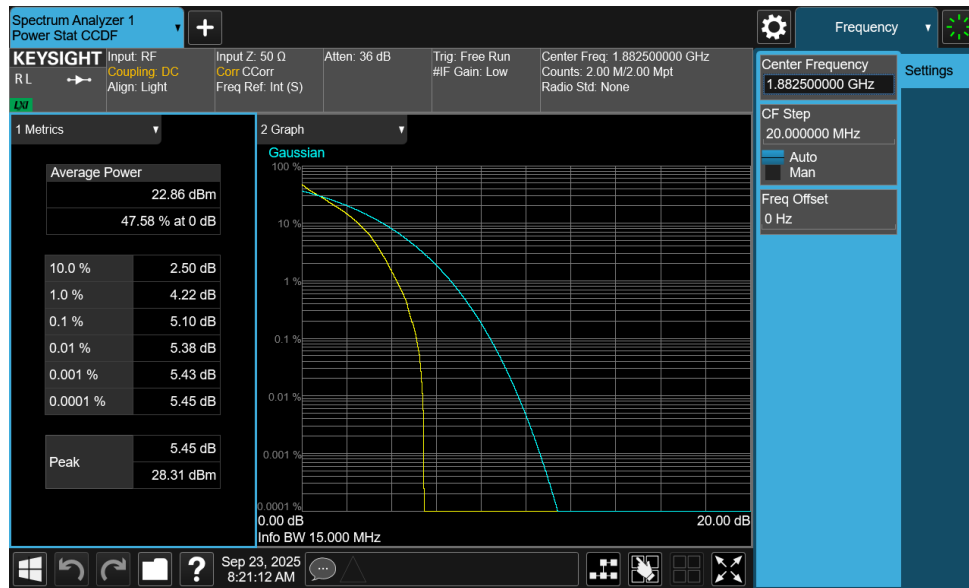


Plot 7-308. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT1)

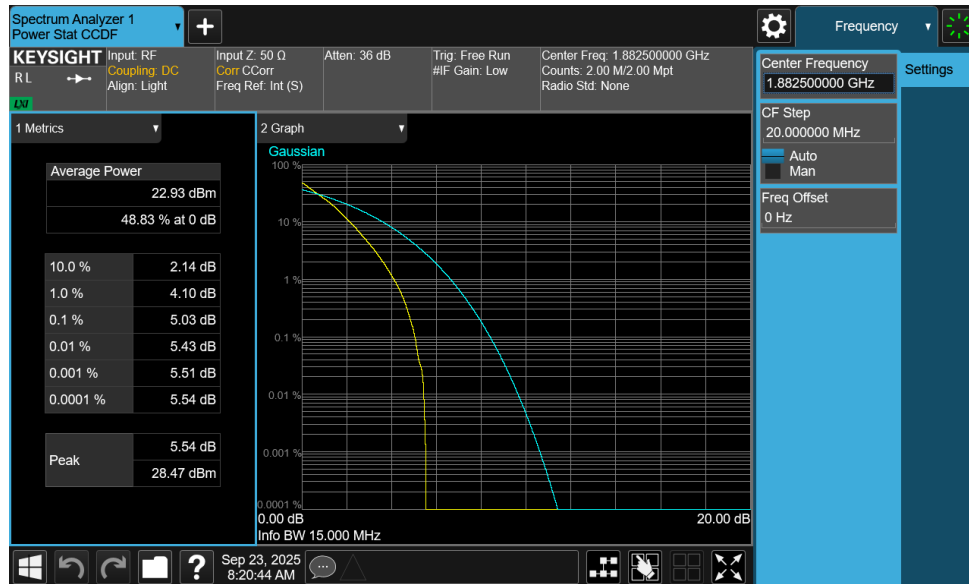


Plot 7-309. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 194 of 247

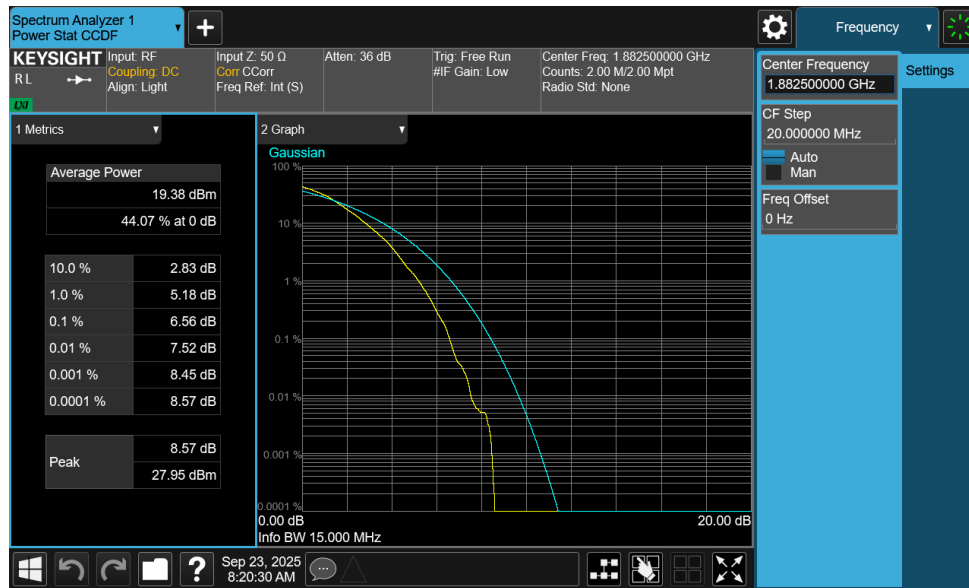


Plot 7-310. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

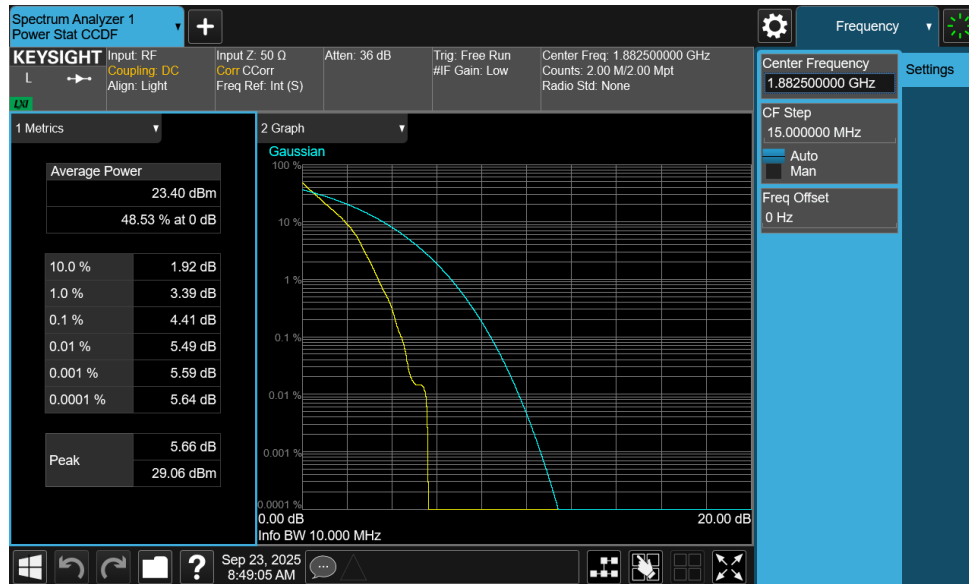


Plot 7-311. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 195 of 247

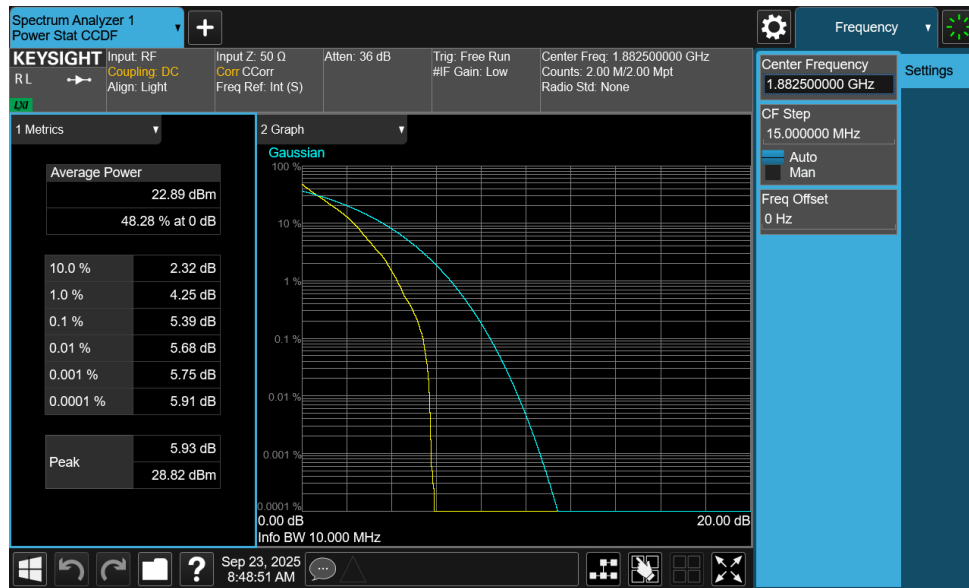


Plot 7-312. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

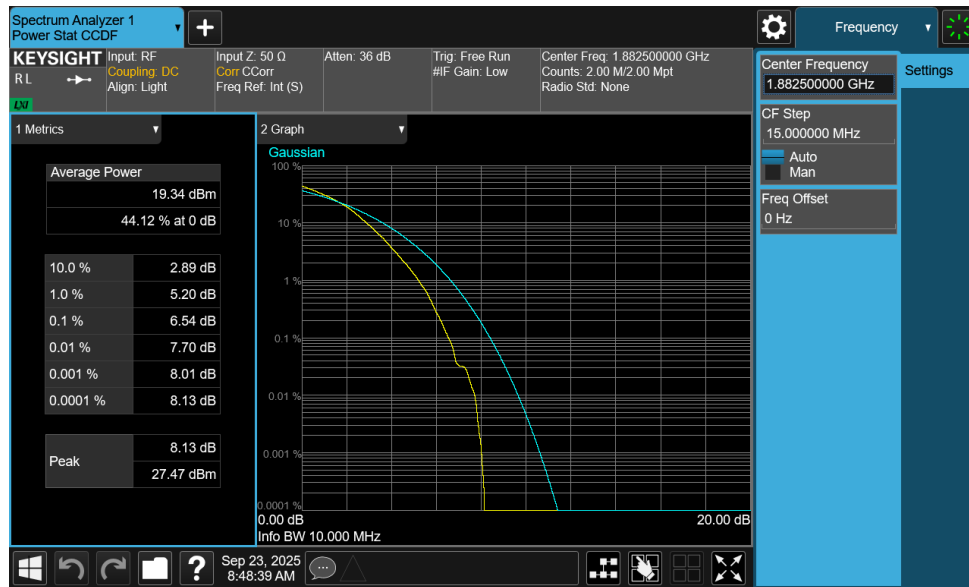


Plot 7-313. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 196 of 247

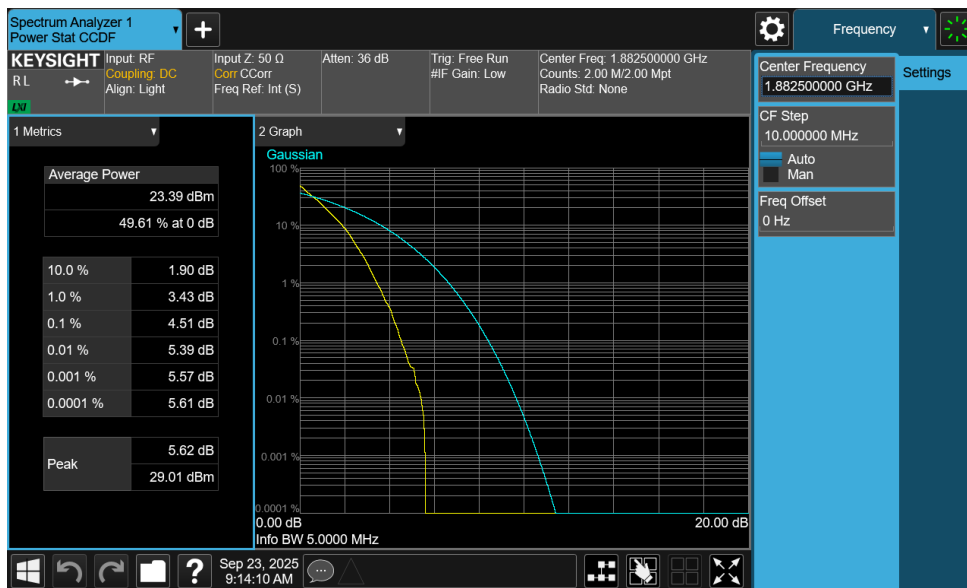


Plot 7-314. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT1)

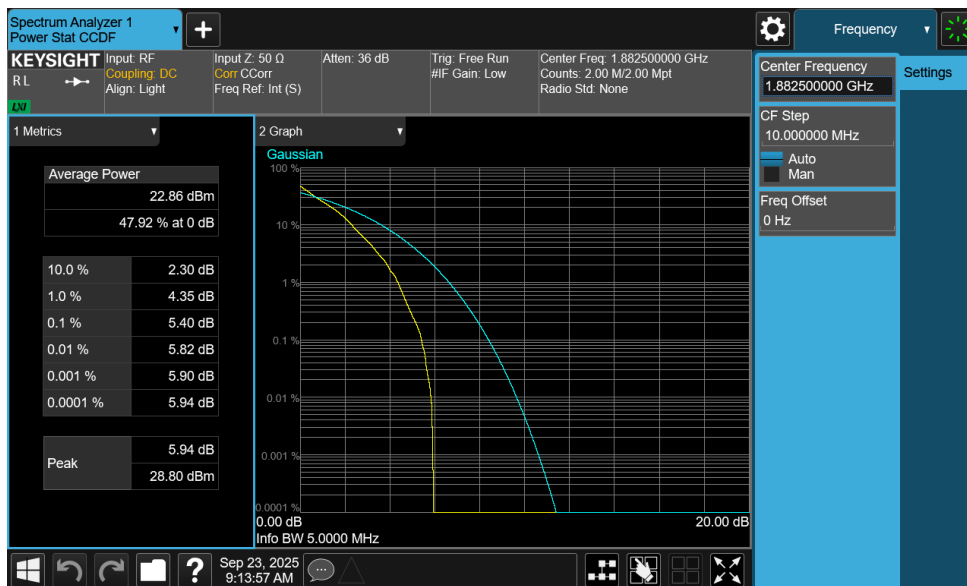


Plot 7-315. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 197 of 247

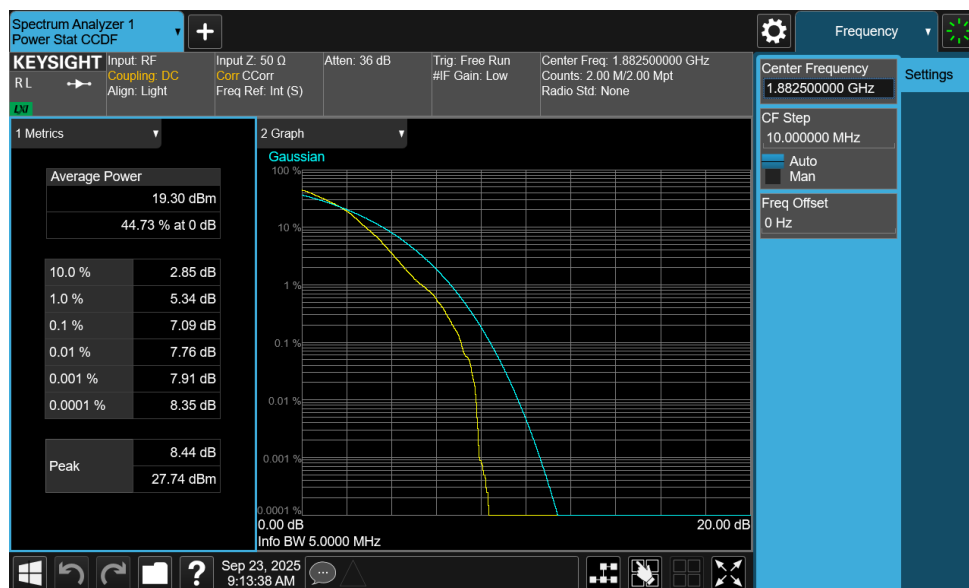


Plot 7-316. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)



Plot 7-317. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT1)

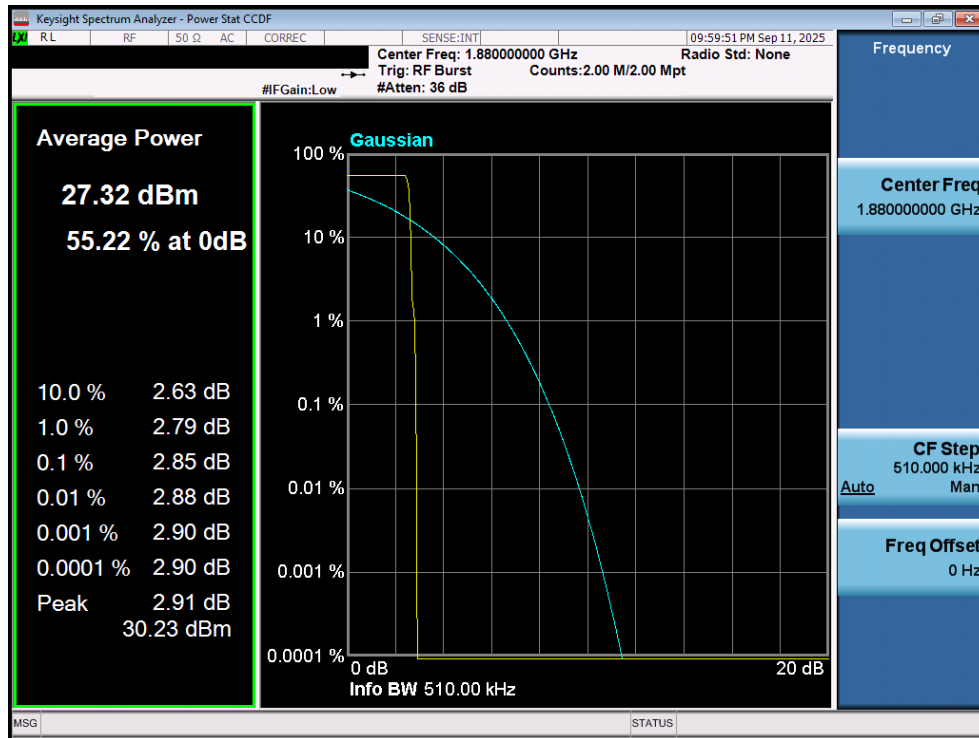
FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 198 of 247



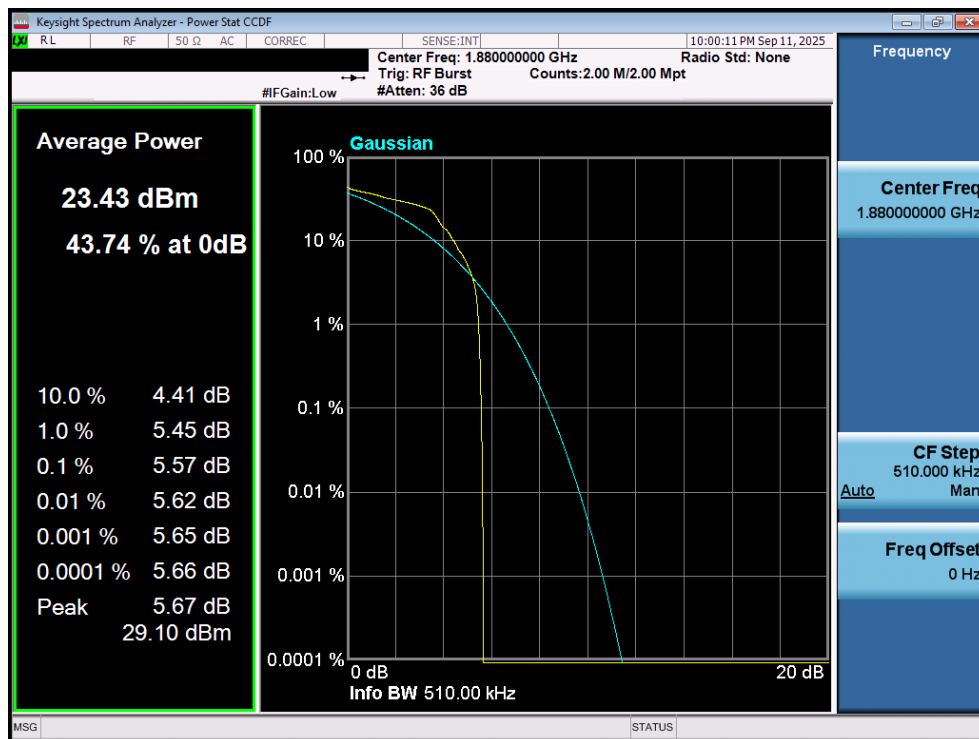
Plot 7-318. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS PCS – Ant1



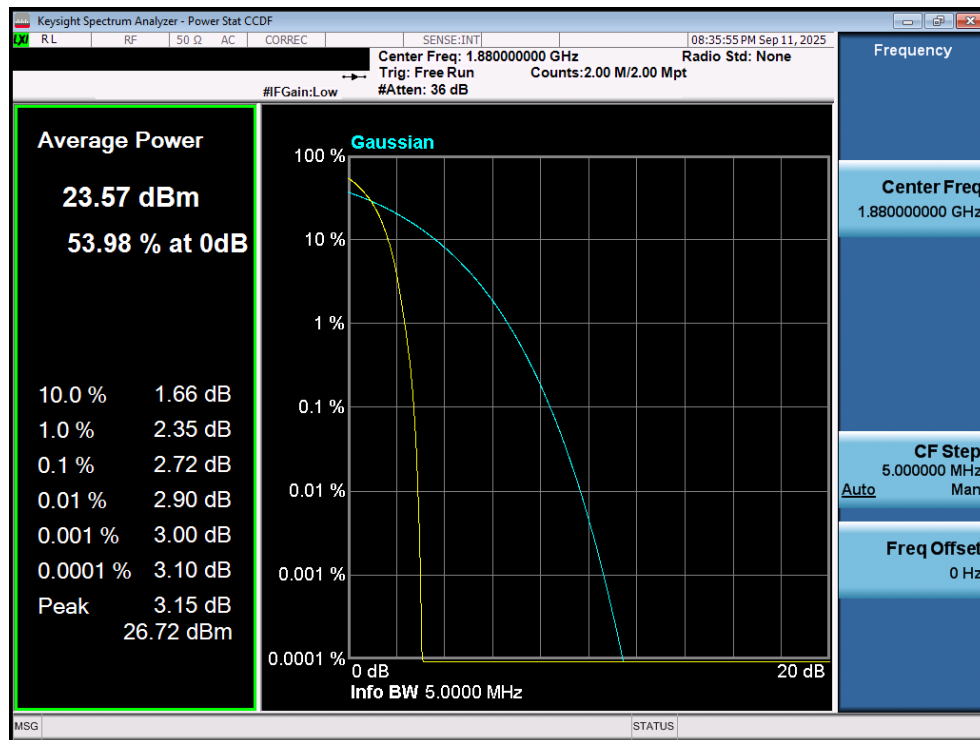
Plot 7-319. PAR Plot (GPRS, Ch. 661 - Ant1)



Plot 7-320. PAR Plot (EDGE, Ch. 661 - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 200 of 247

WCDMA PCS – Ant1



Plot 7-321. PAR Plot (WCDMA, Ch. 9400 - Ant1)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 201 of 247

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B25-2	20MHz	QPSK	21.88	5.95	13	-7.05
		256QAM	17.83	6.52	13	-6.48
	15MHz	QPSK	21.85	6.10	13	-6.90
		256QAM	17.88	6.63	13	-6.37
	10MHz	QPSK	21.91	5.76	13	-7.24
		256QAM	17.87	6.54	13	-6.46
	5MHz	QPSK	21.90	5.83	13	-7.17
		256QAM	17.85	6.64	13	-6.36
	3MHz	QPSK	21.88	5.85	13	-7.15
		256QAM	17.80	6.60	13	-6.40
	1.4MHz	QPSK	21.83	5.84	13	-7.16
		256QAM	17.77	6.52	13	-6.48

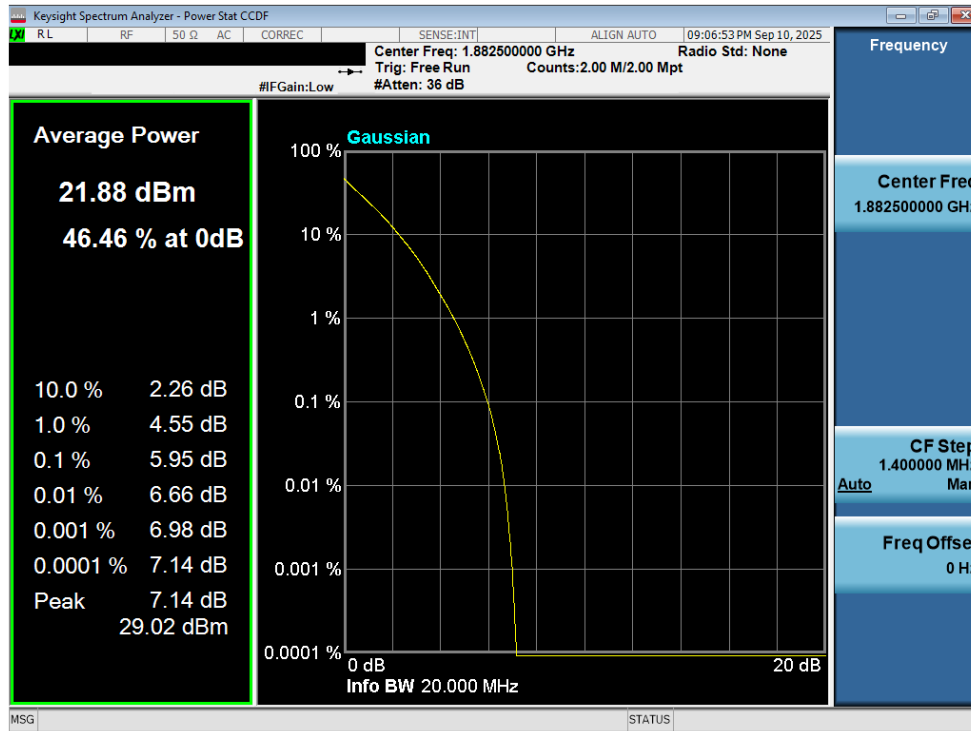
Table 7-20. PAR Test Results – LTE – Ant 2

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n25-2	40MHz	BPSK	22.57	5.12	13	-7.88
		QPSK	22.06	5.66	13	-7.34
		256QAM	18.52	6.60	13	-6.40
	30MHz	BPSK	22.56	4.37	13	-8.63
		QPSK	22.04	5.70	13	-7.30
		256QAM	18.52	6.52	13	-6.48
	25MHz	BPSK	22.54	4.66	13	-8.34
		QPSK	22.02	5.69	13	-7.31
		256QAM	18.50	6.61	13	-6.39
	20MHz	BPSK	22.52	4.61	13	-8.39
		QPSK	22.01	5.54	13	-7.46
		256QAM	18.51	6.54	13	-6.46
	15MHz	BPSK	22.51	4.46	13	-8.54
		QPSK	21.99	5.33	13	-7.67
		256QAM	18.47	6.48	13	-6.52
	10MHz	BPSK	22.50	4.48	13	-8.52
		QPSK	21.99	5.94	13	-7.06
		256QAM	18.48	6.62	13	-6.38
	5MHz	BPSK	22.51	4.67	13	-8.33
		QPSK	22.00	6.03	13	-6.97
		256QAM	18.47	7.05	13	-5.95

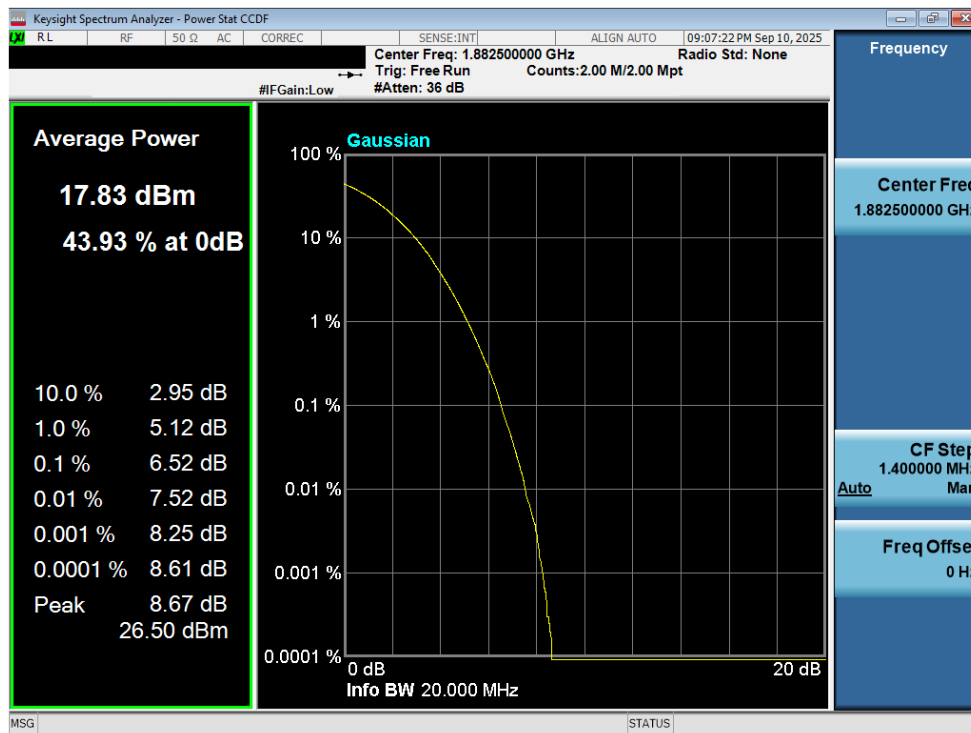
Table 7-21. PAR Test Results – NR – Ant 2

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
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LTE Band 25/2 – Ant2

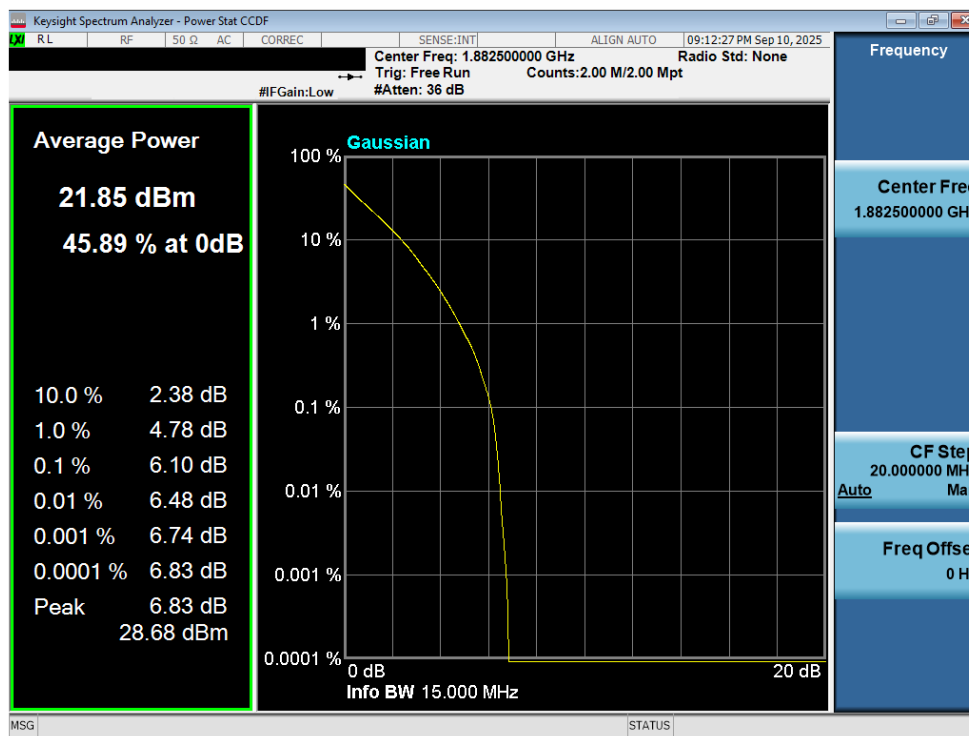


Plot 7-322. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - Ant2)

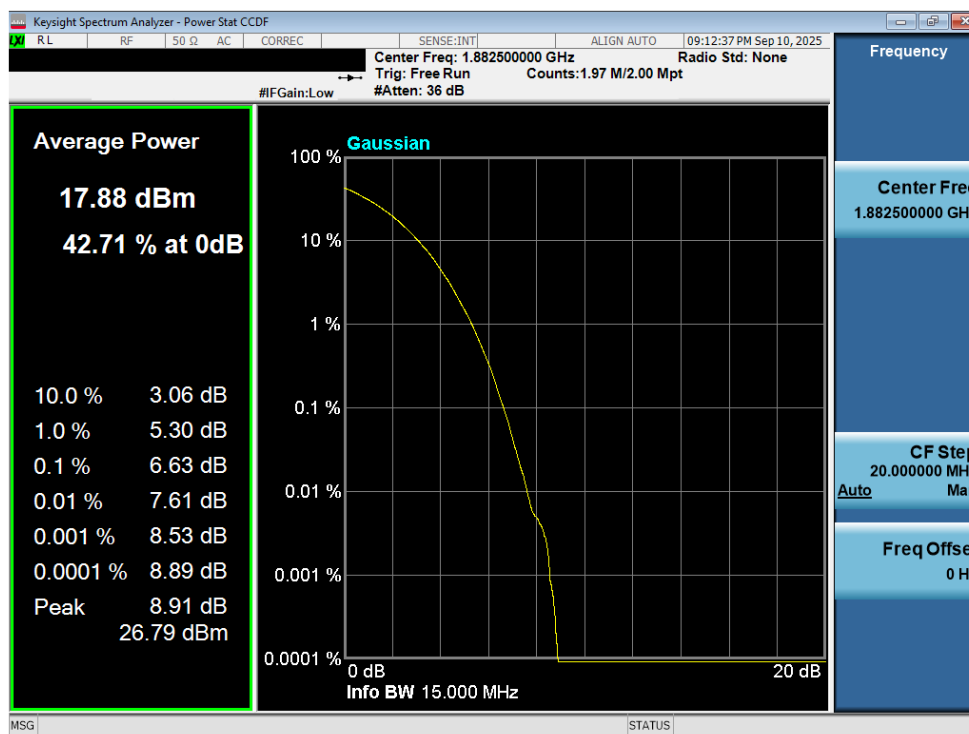


Plot 7-323. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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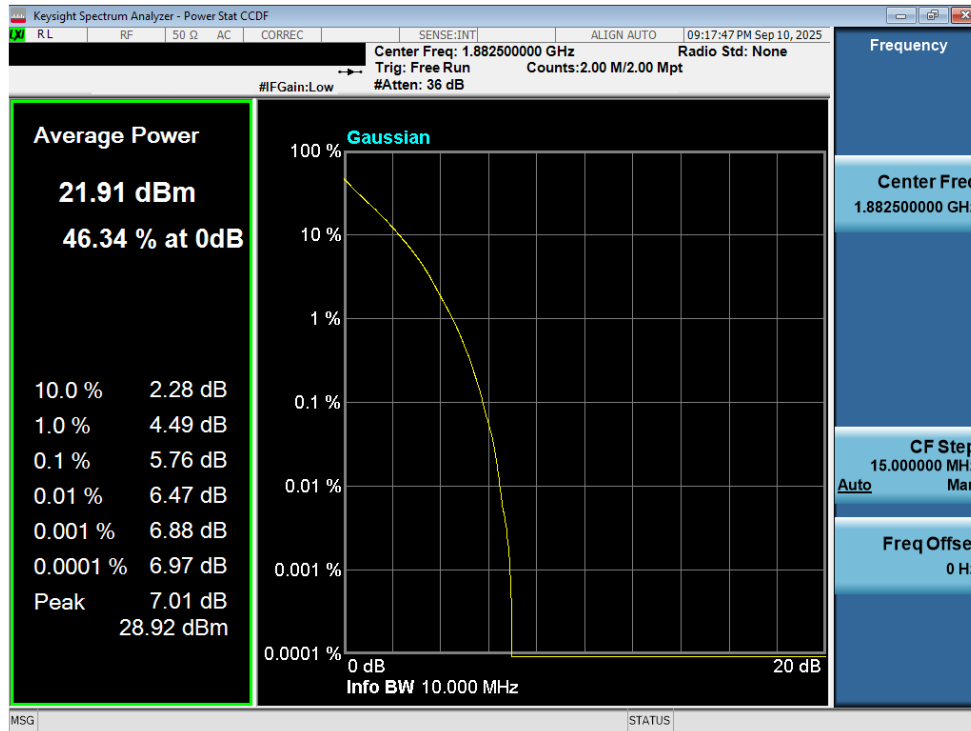


Plot 7-324. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant2)

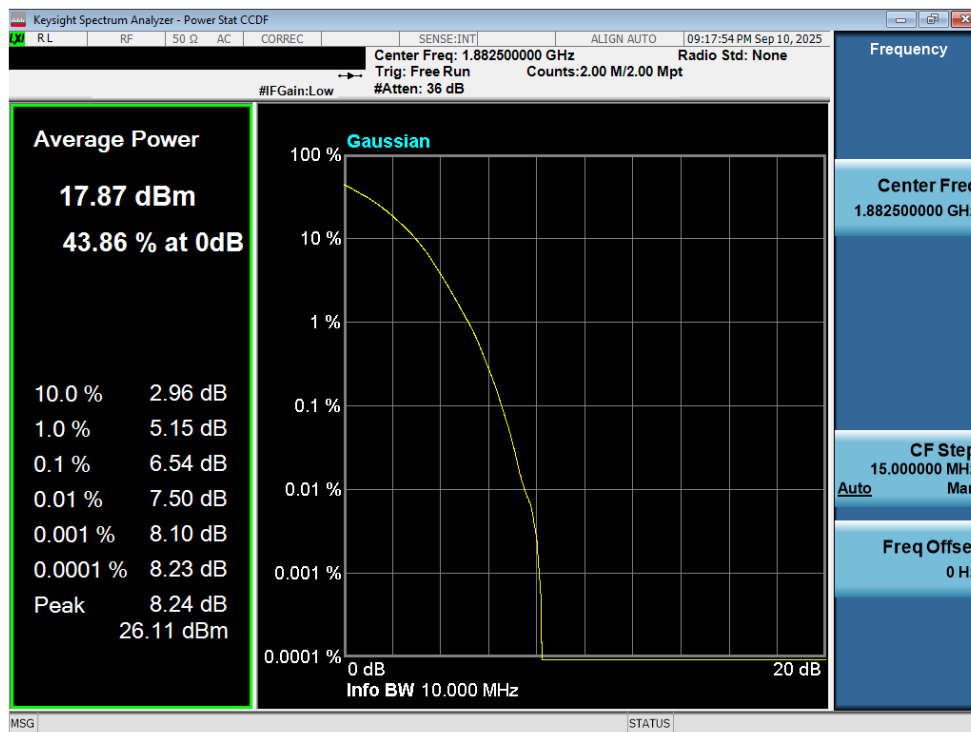


Plot 7-325. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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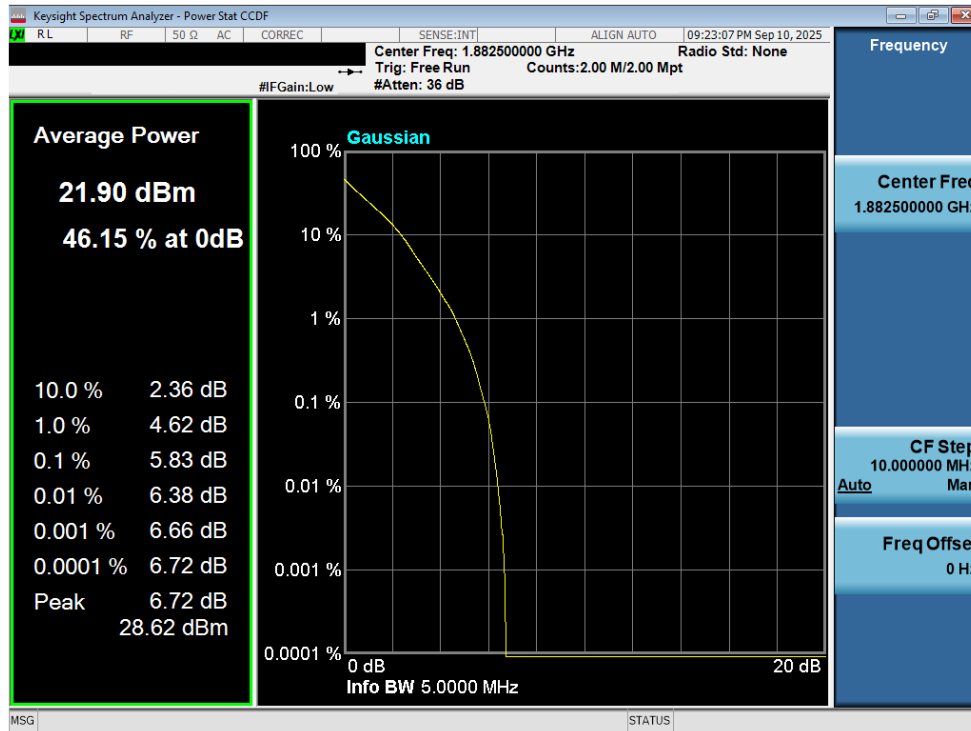


Plot 7-326. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant2)

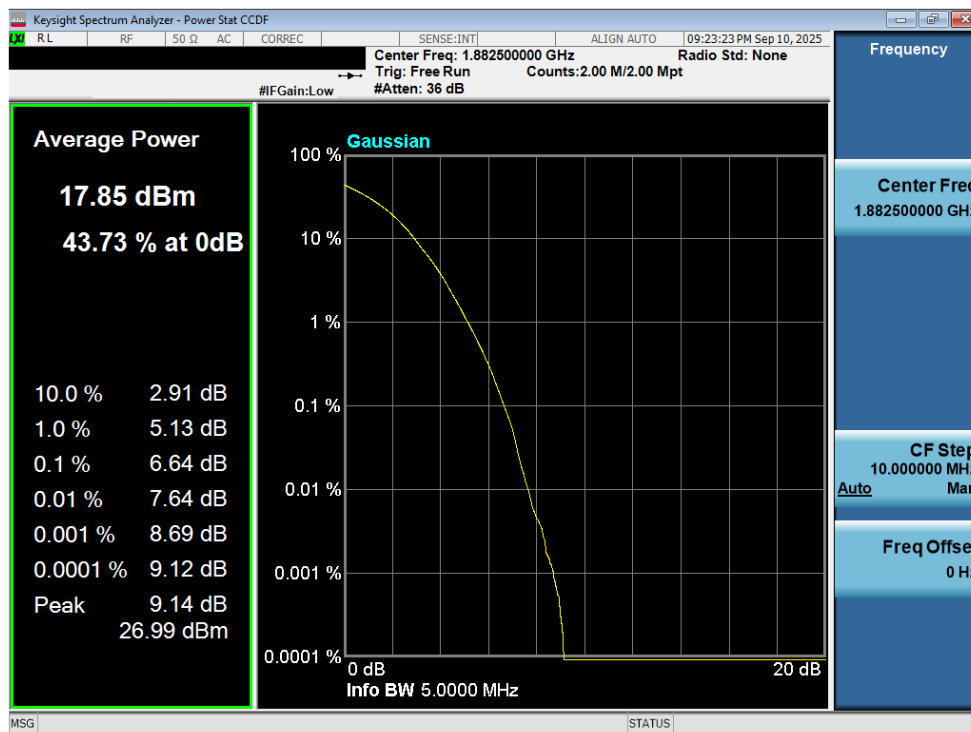


Plot 7-327. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 205 of 247

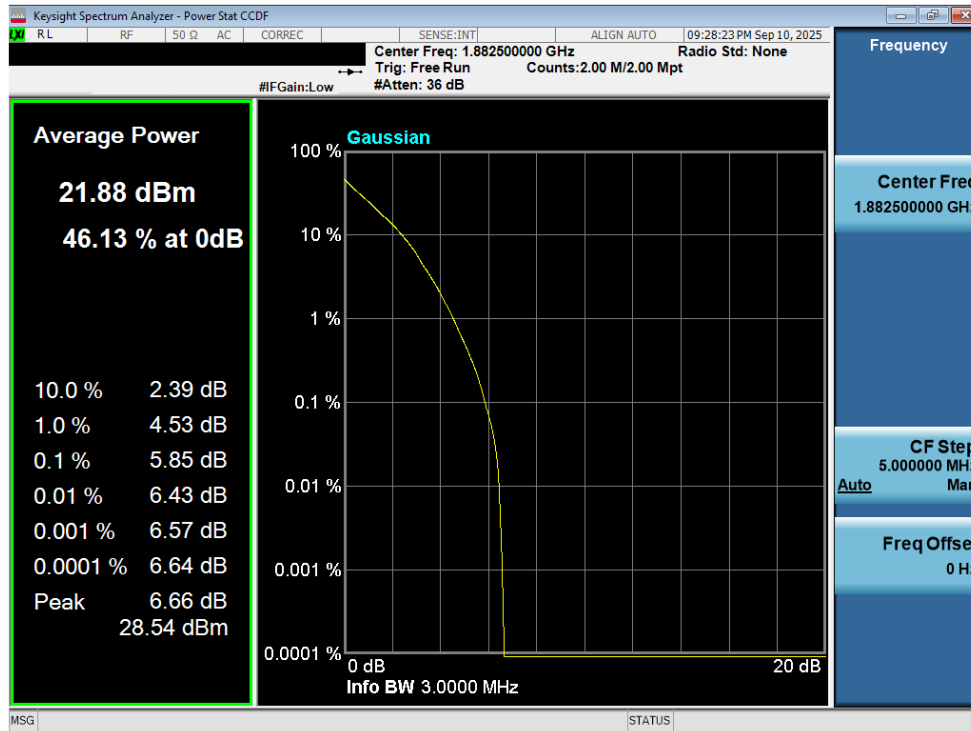


Plot 7-328. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant2)

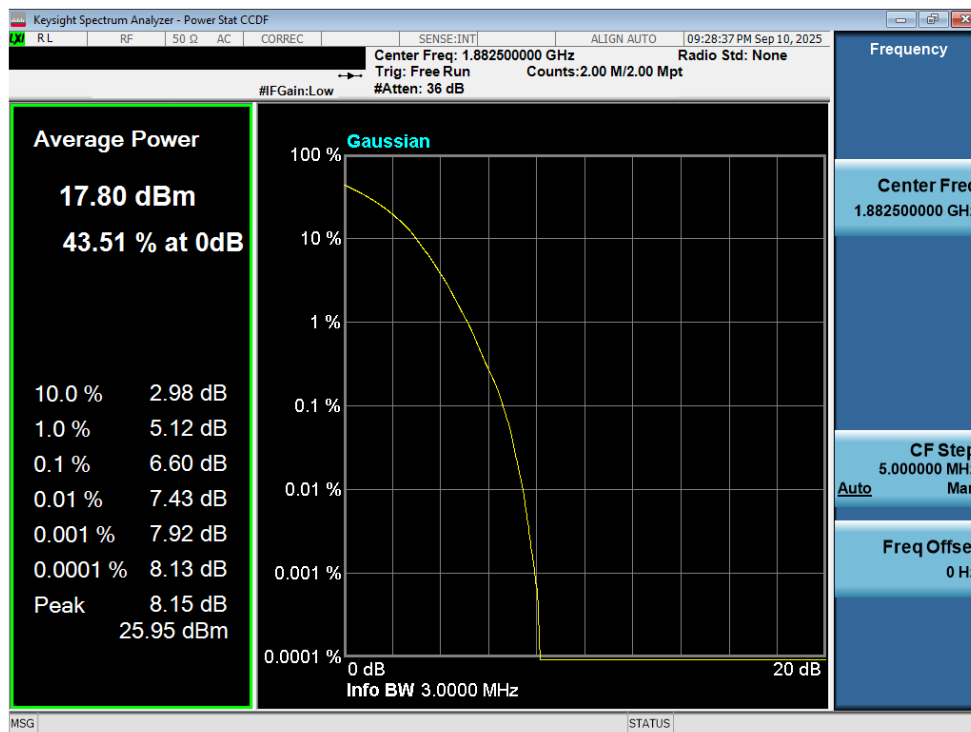


Plot 7-329. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 206 of 247

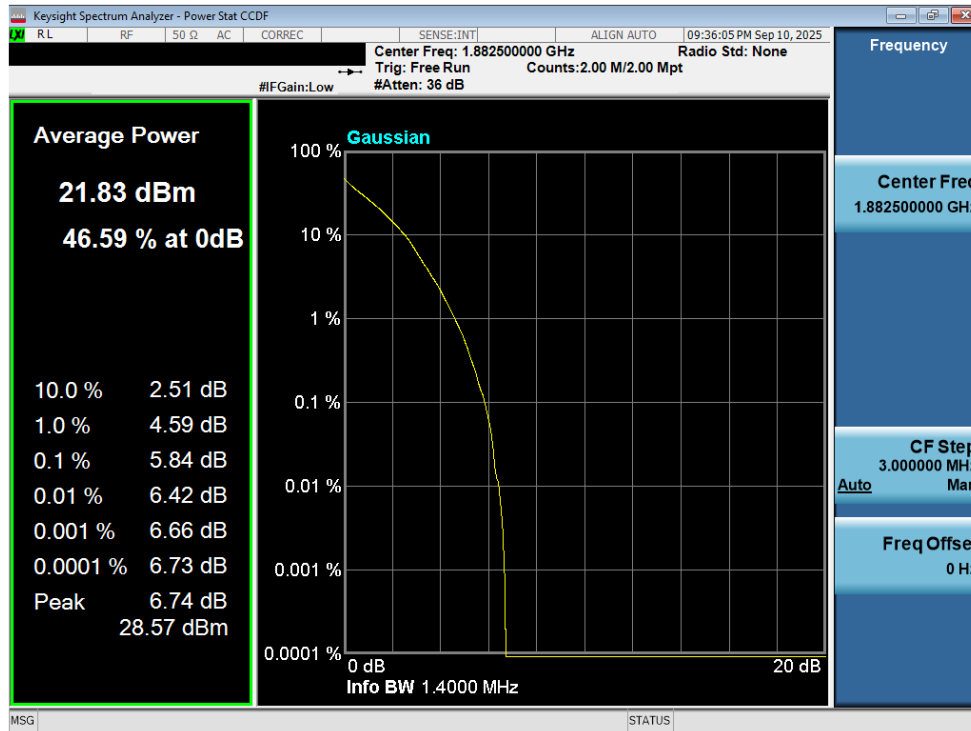


Plot 7-330. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant2)

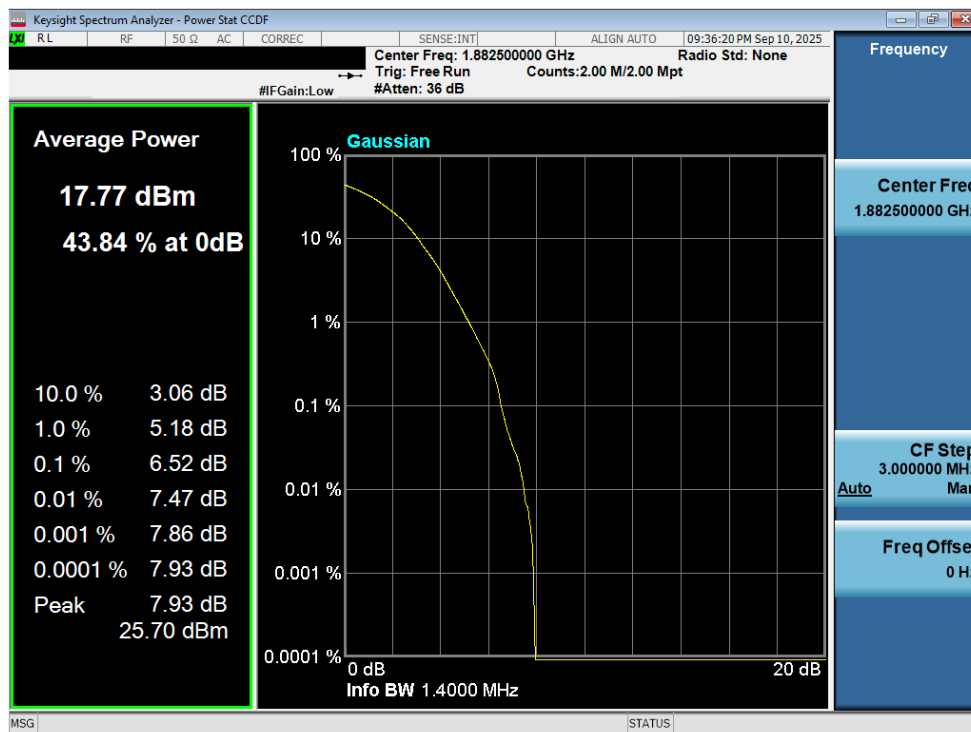


Plot 7-331. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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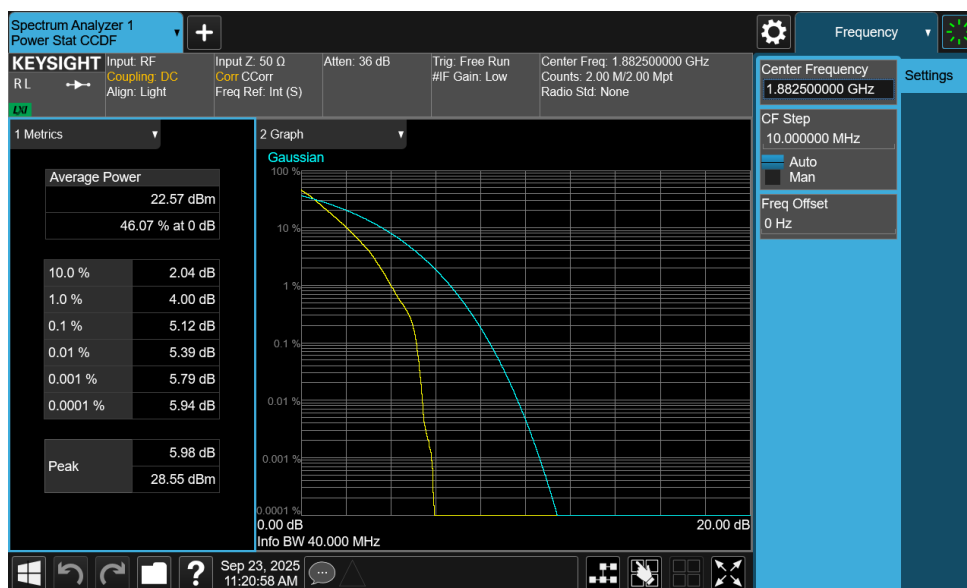
Plot 7-332. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant2)



Plot 7-333. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant2

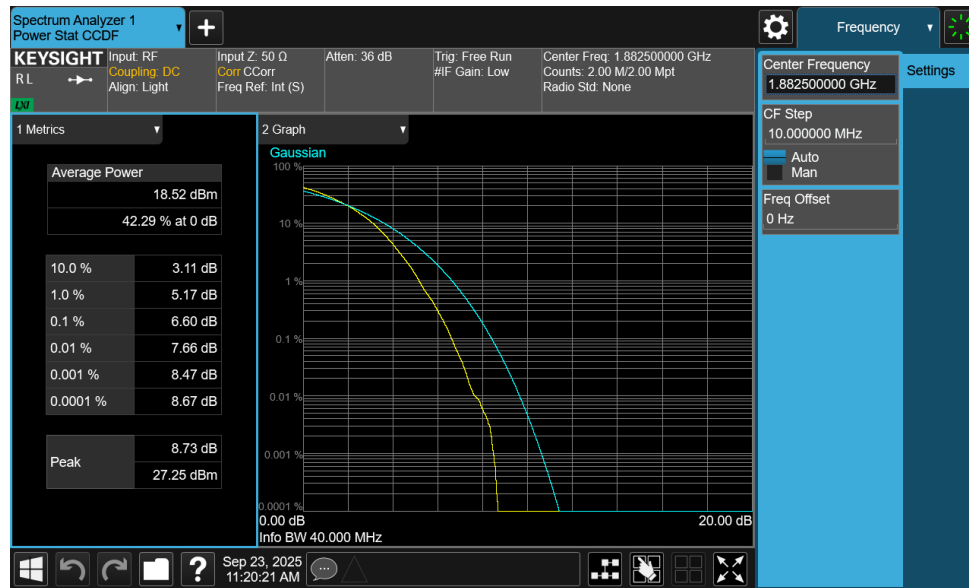


Plot 7-334. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

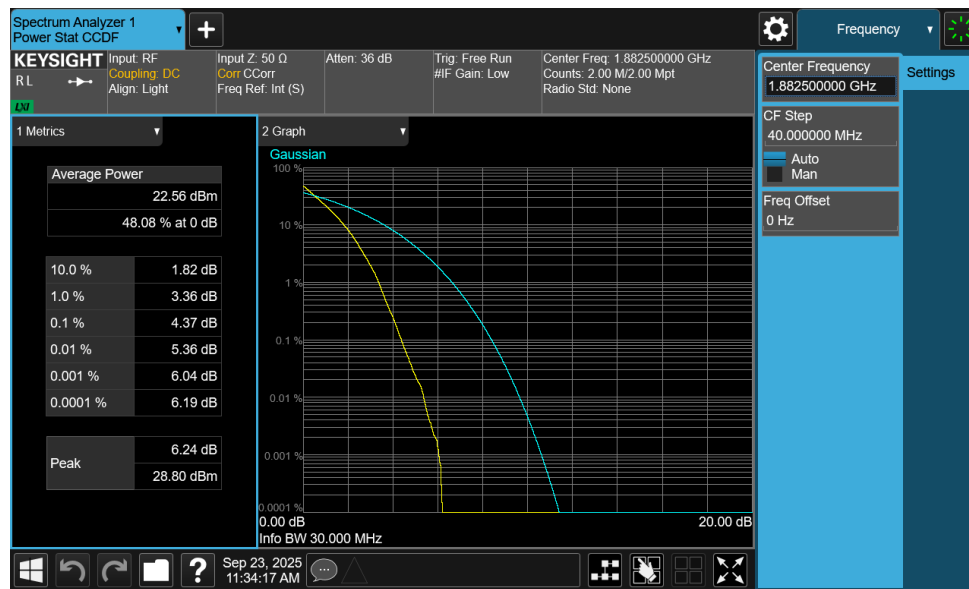


Plot 7-335. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-336. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT2)



Plot 7-337. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS942B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-07.A3L	Test Dates: 9/4/2025 - 12/29/2025	EUT Type: Portable Handset	Page 210 of 247