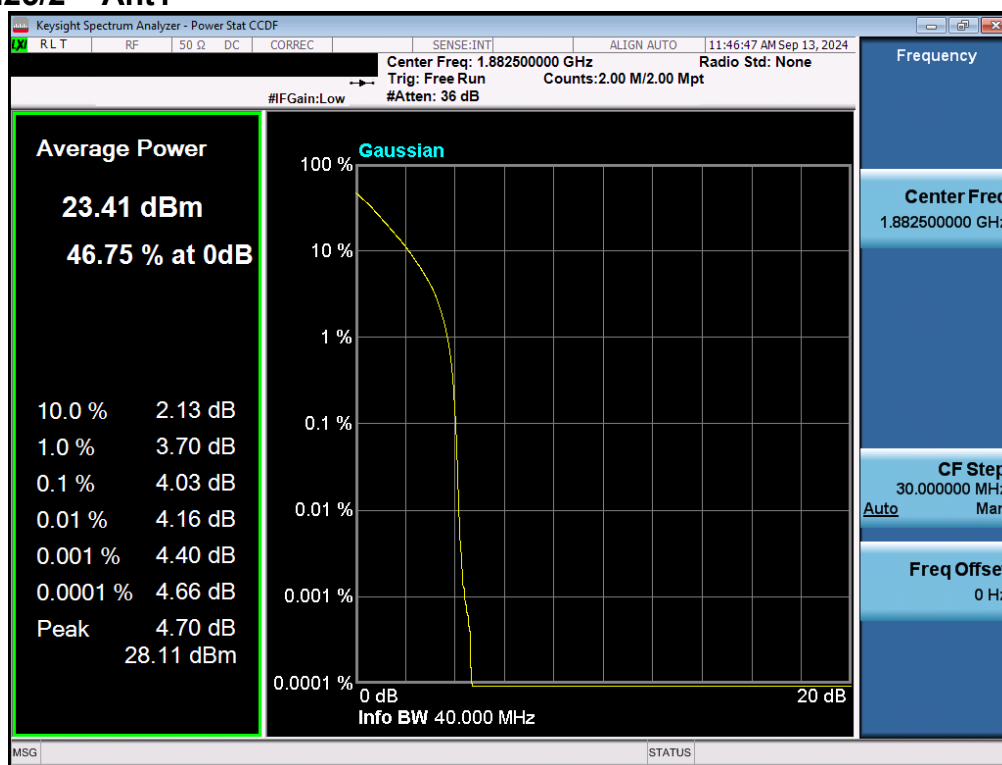
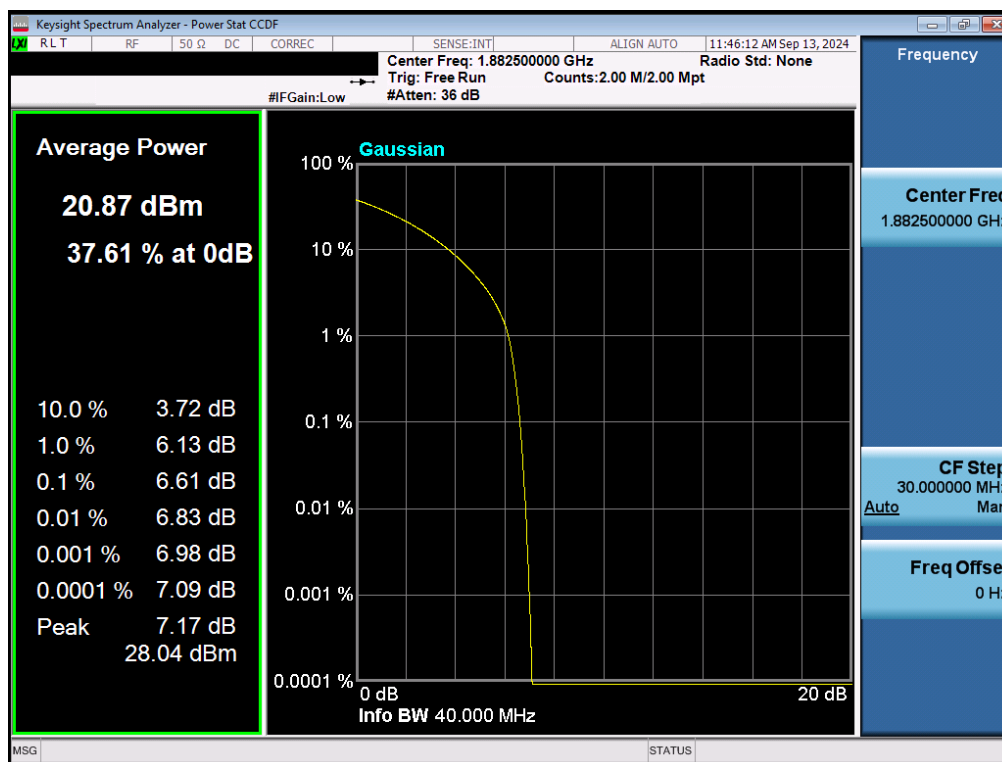


NR Band n25/2 – Ant1

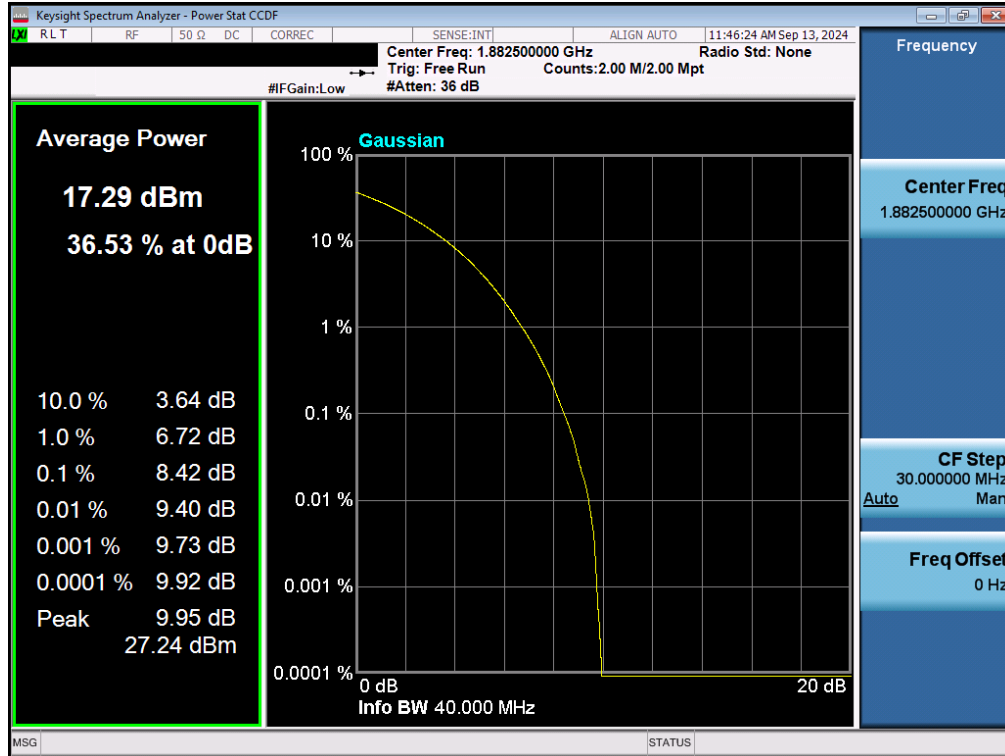


Plot 7-173. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

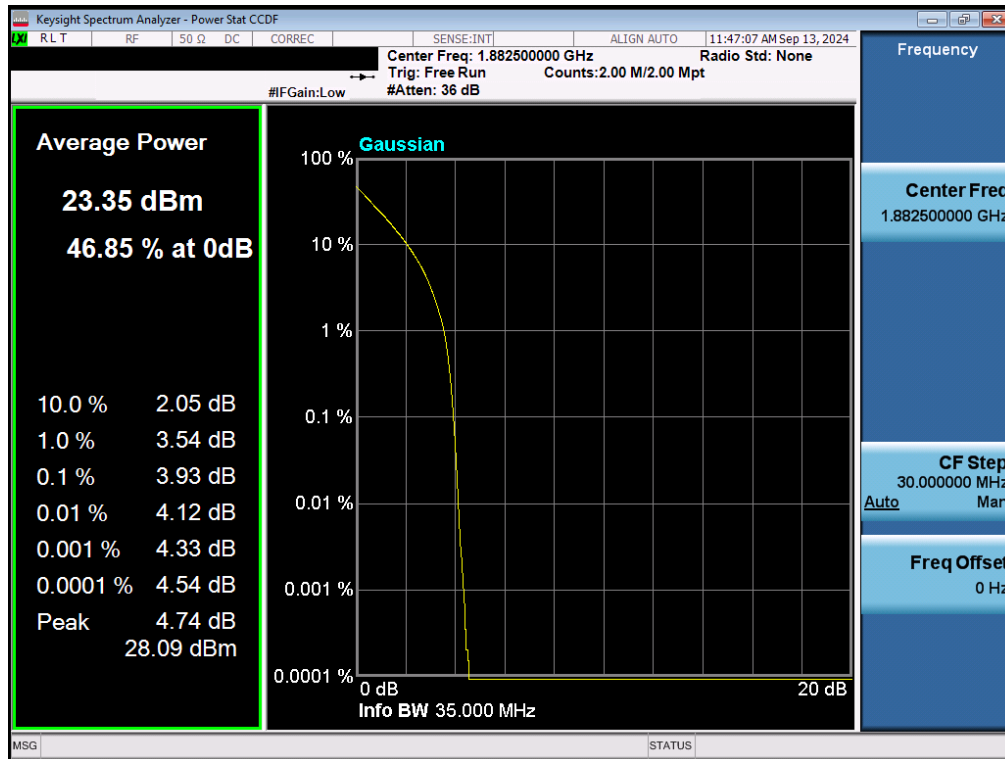


Plot 7-174. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 117 of 174

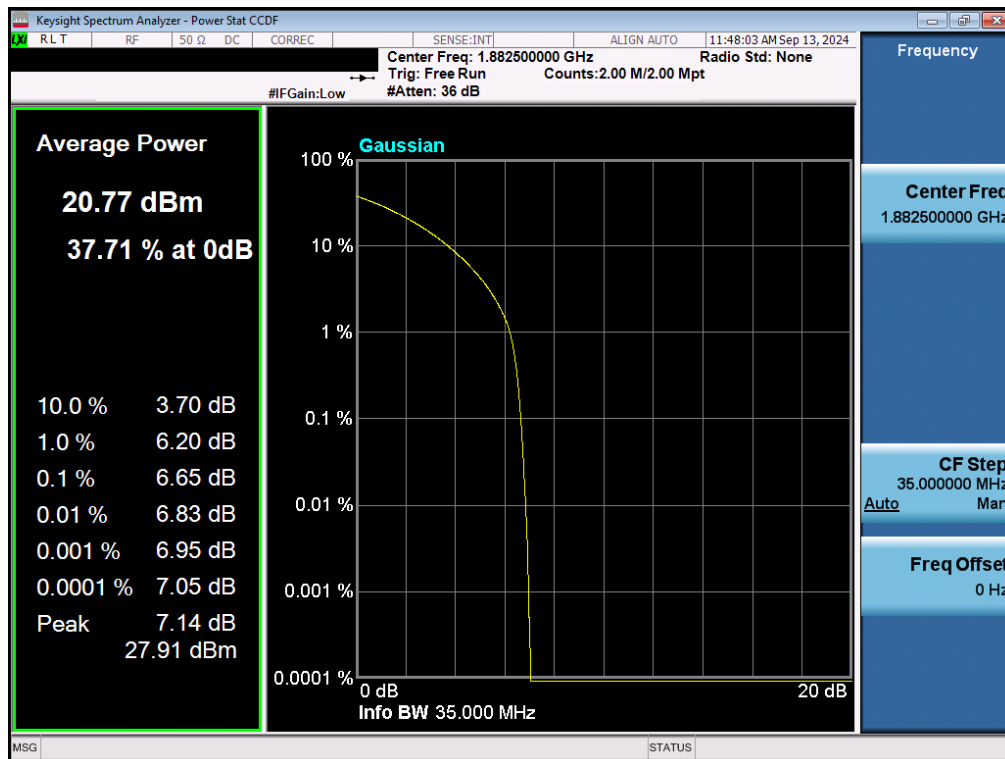


Plot 7-175. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

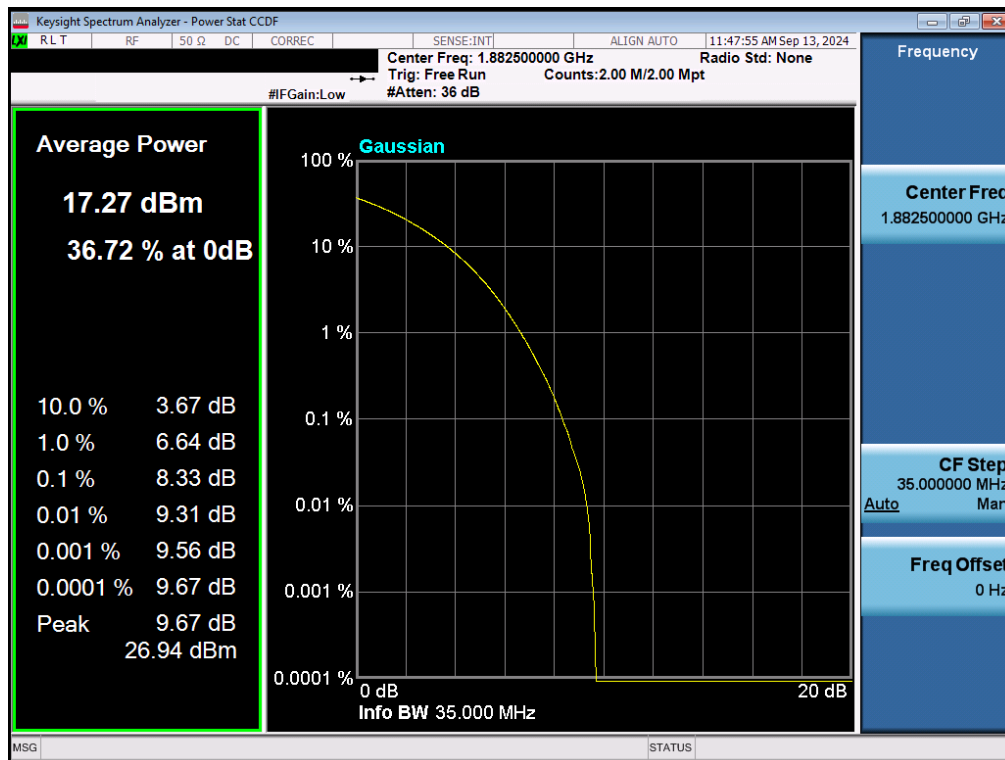


Plot 7-176. PAR Plot (NR Band n25/2 - 35.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 118 of 174

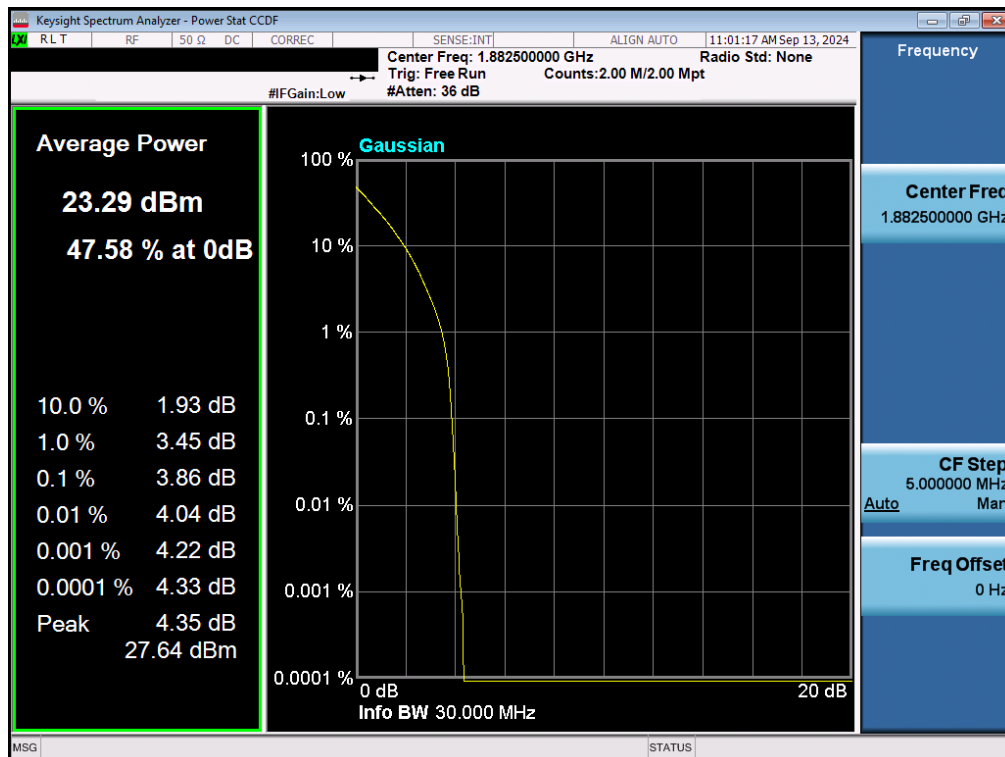


Plot 7-177. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM QPSK - Full RB - ANT1)

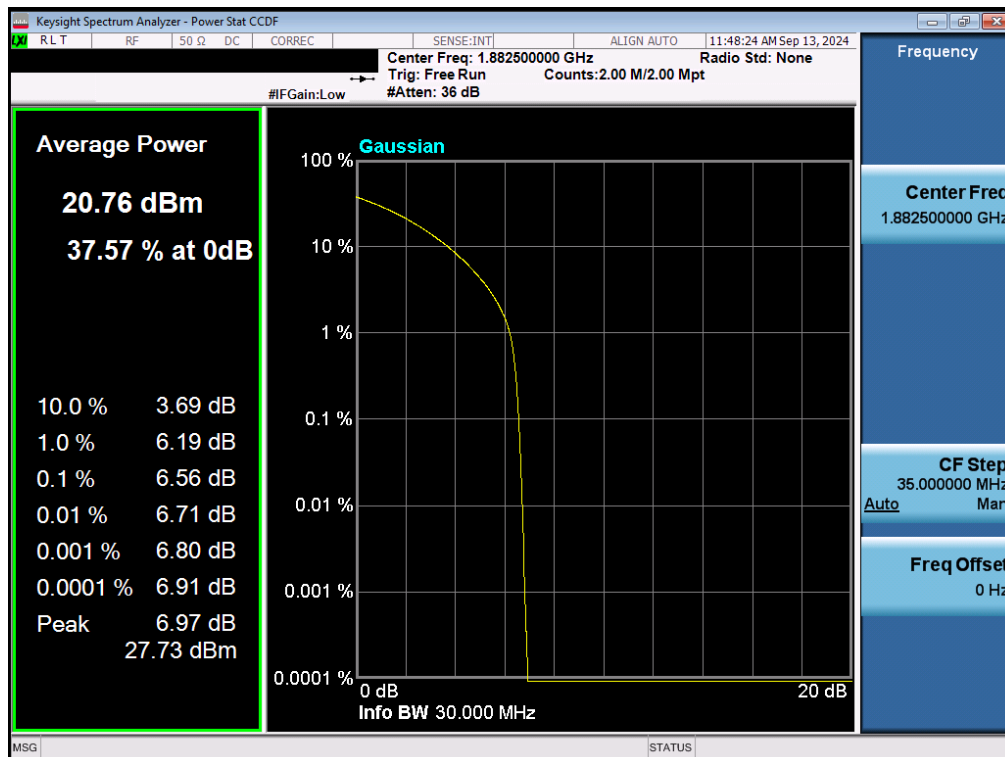


Plot 7-178. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 119 of 174

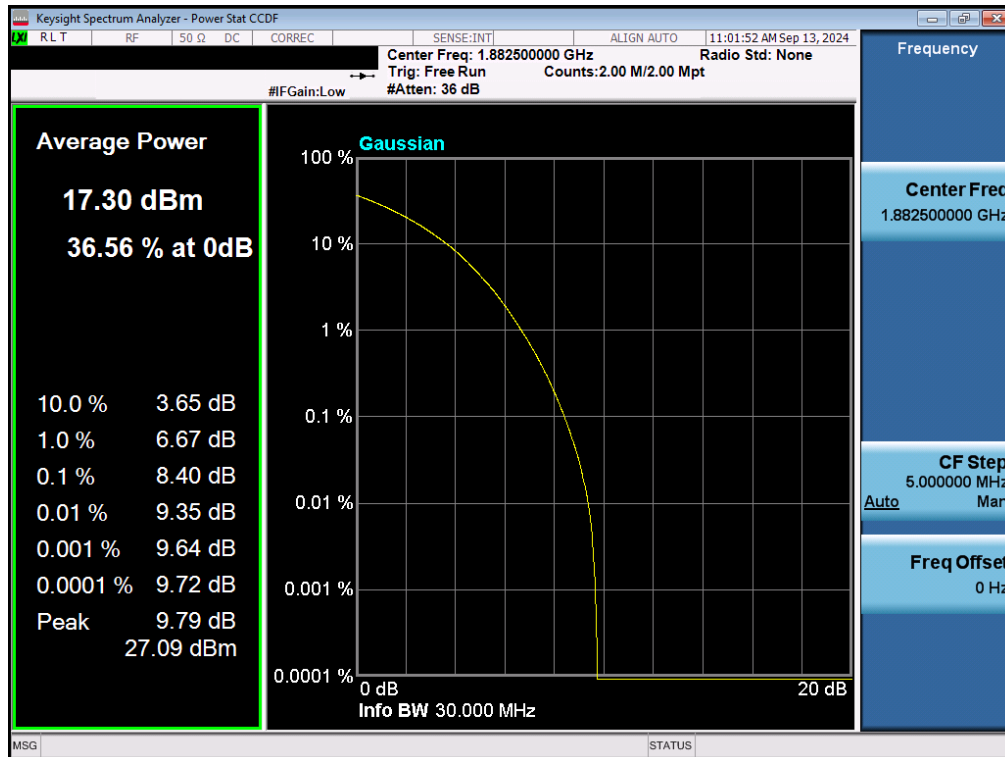


Plot 7-179. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

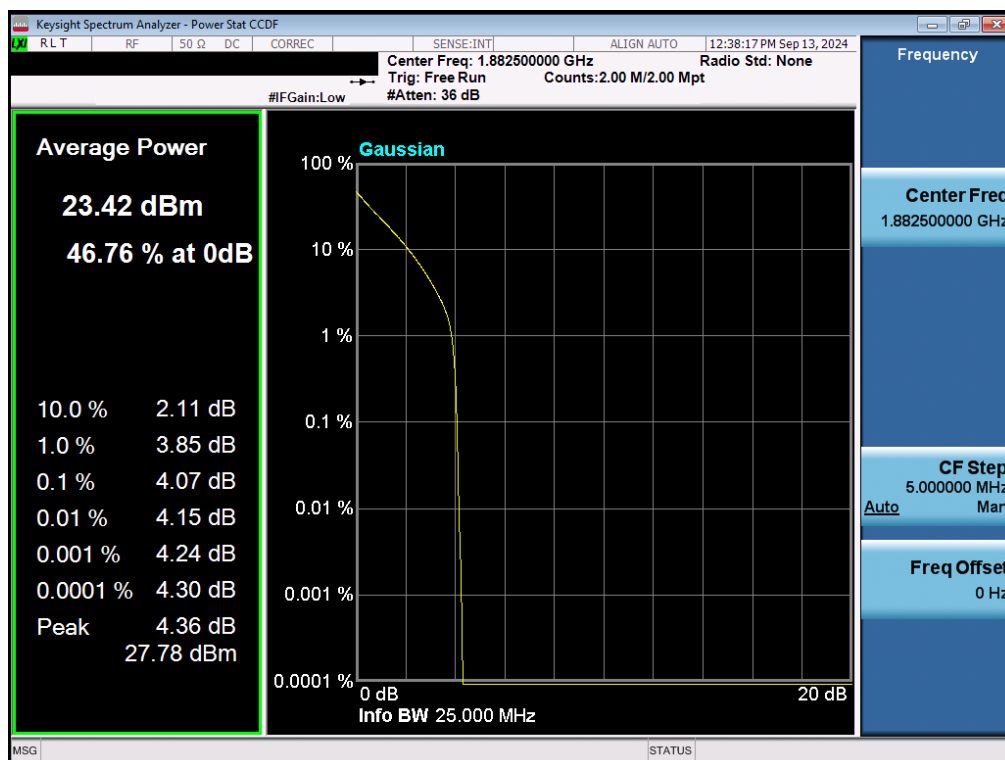


Plot 7-180. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 120 of 174

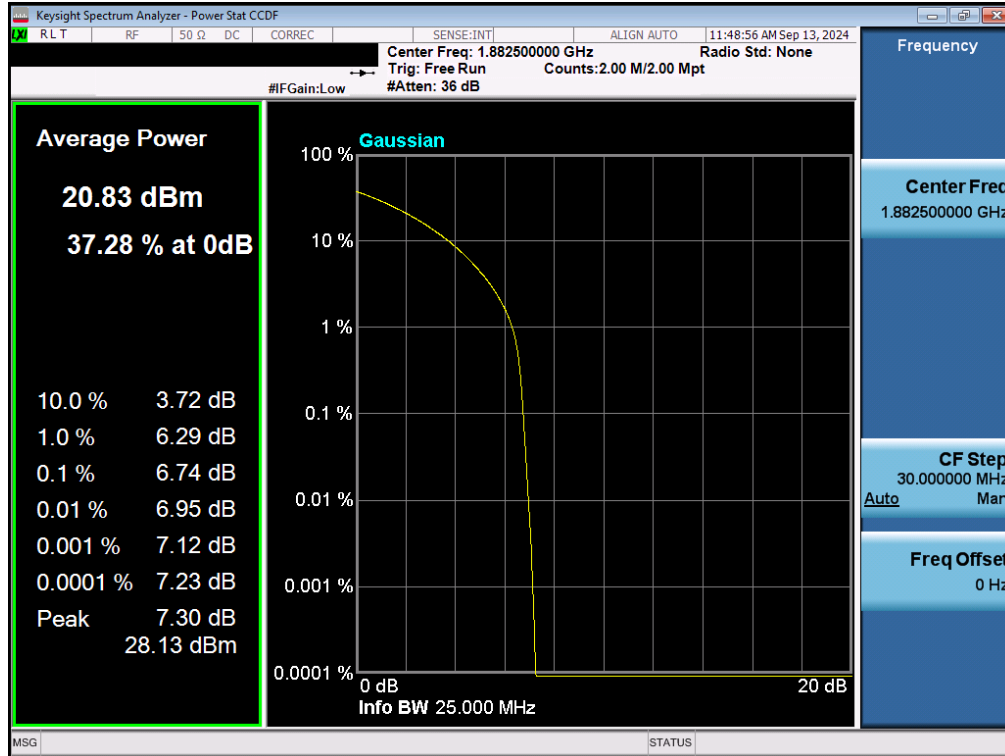


Plot 7-181. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

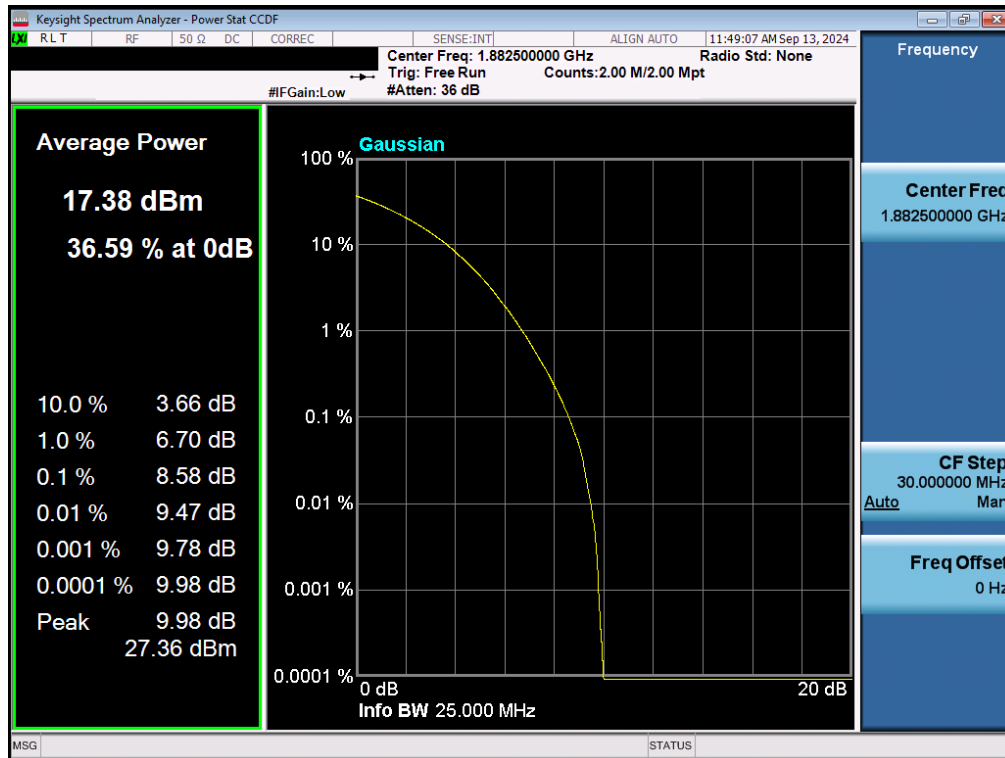


Plot 7-182. PAR Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 121 of 174

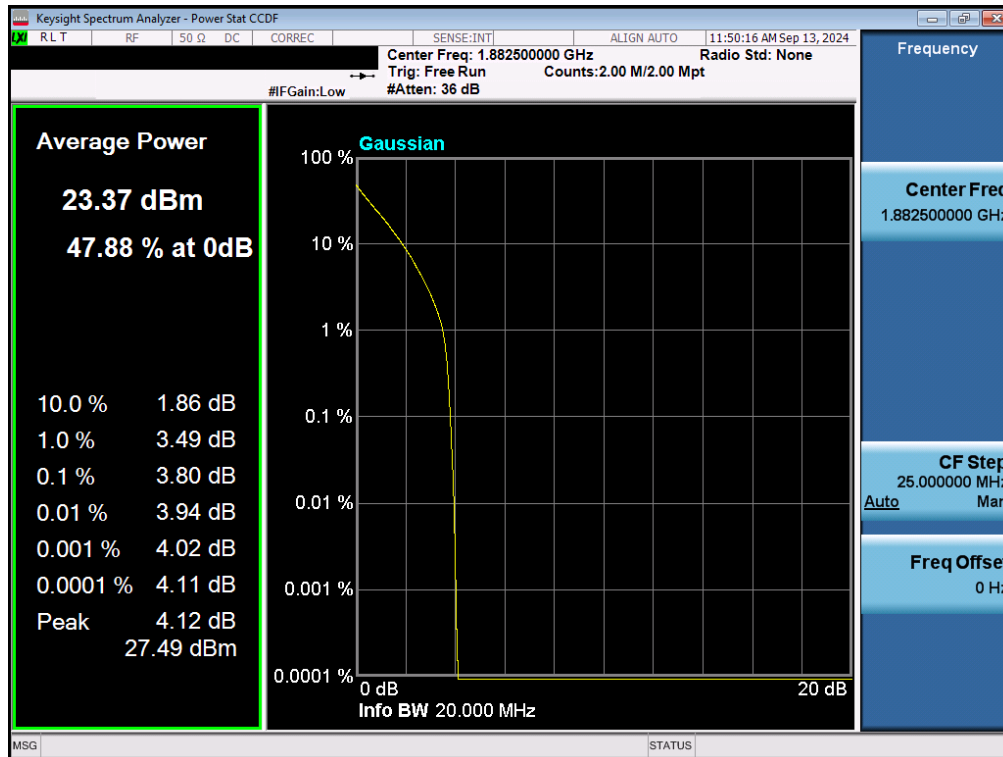


Plot 7-183. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM QPSK - Full RB - ANT1)

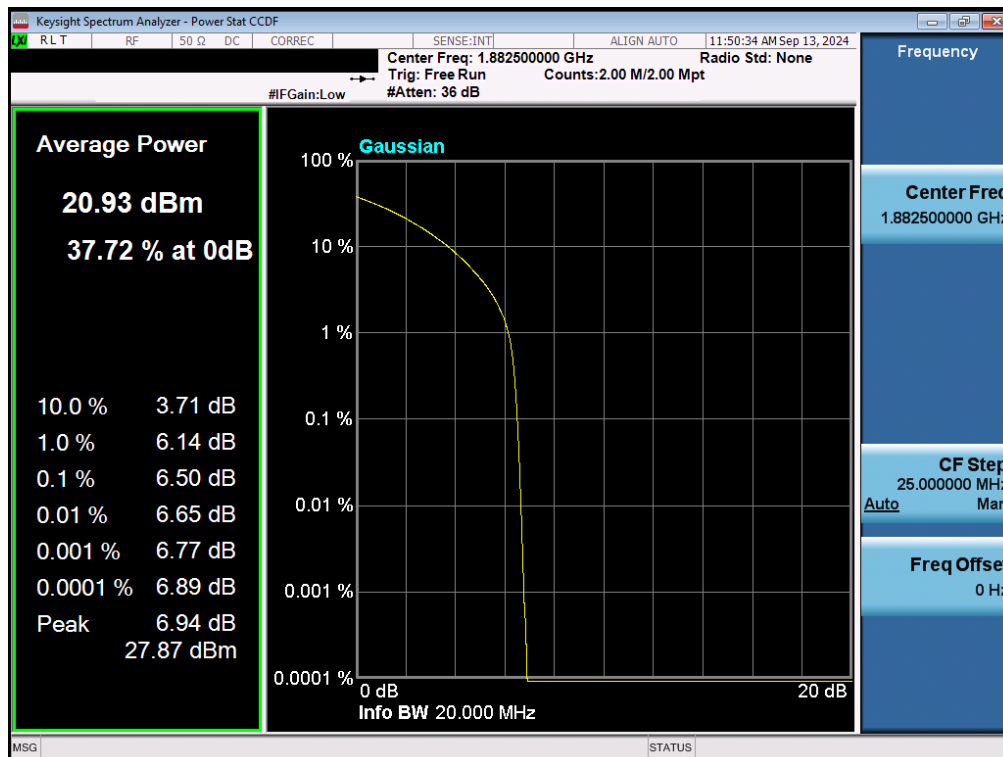


Plot 7-184. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 122 of 174

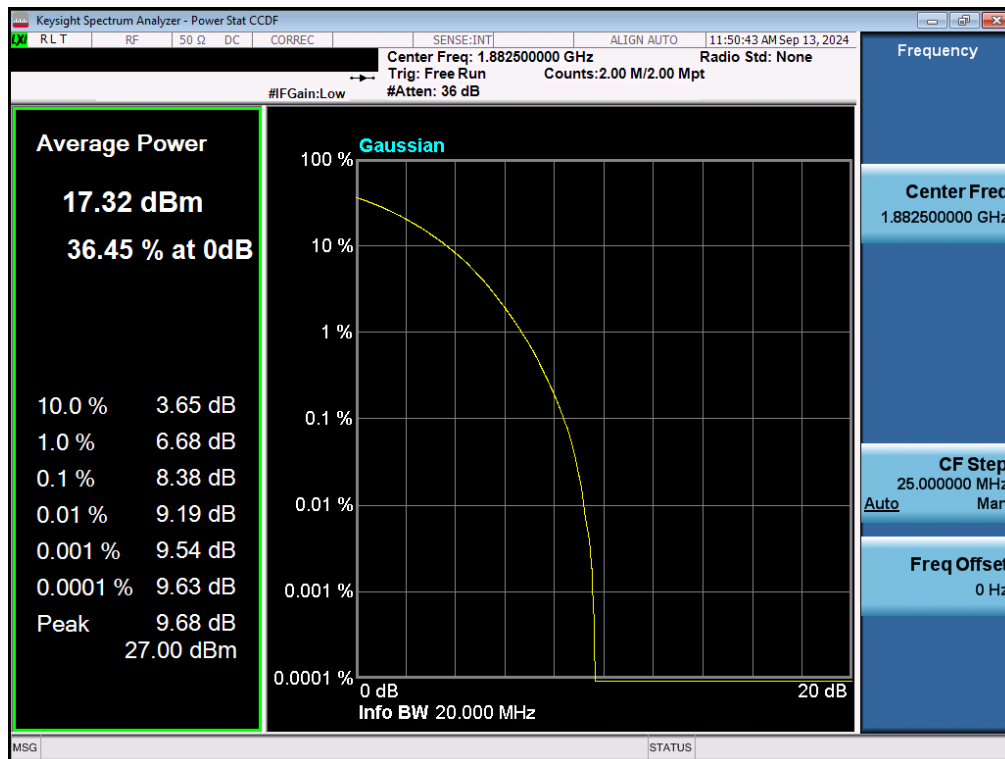


Plot 7-185. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

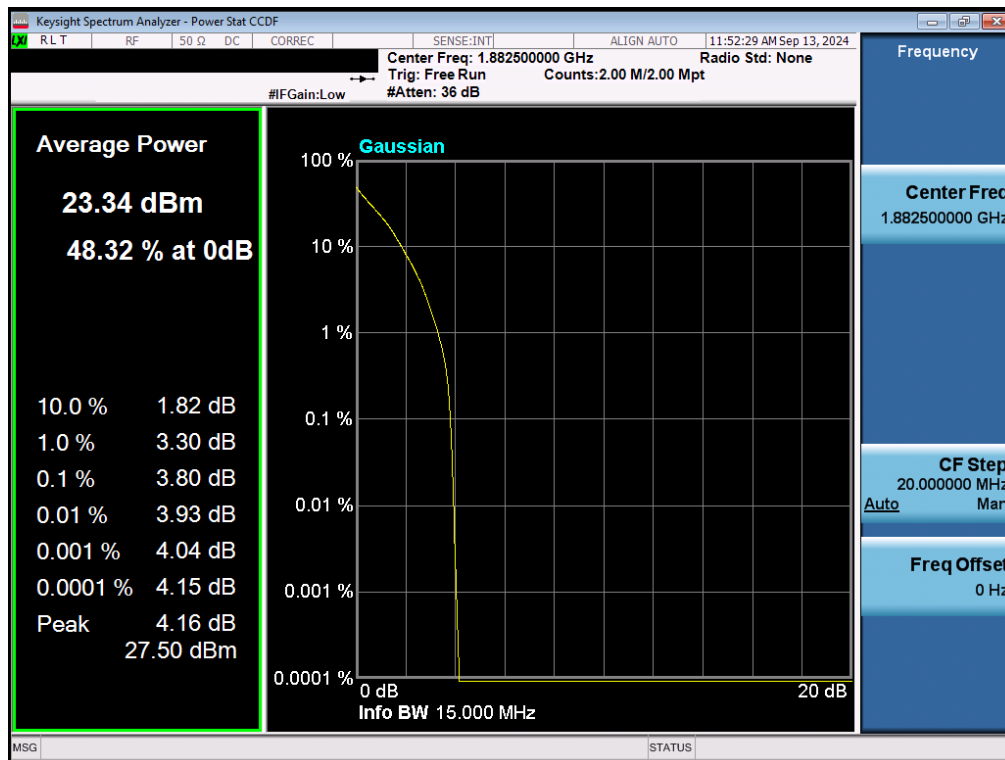


Plot 7-186. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 123 of 174

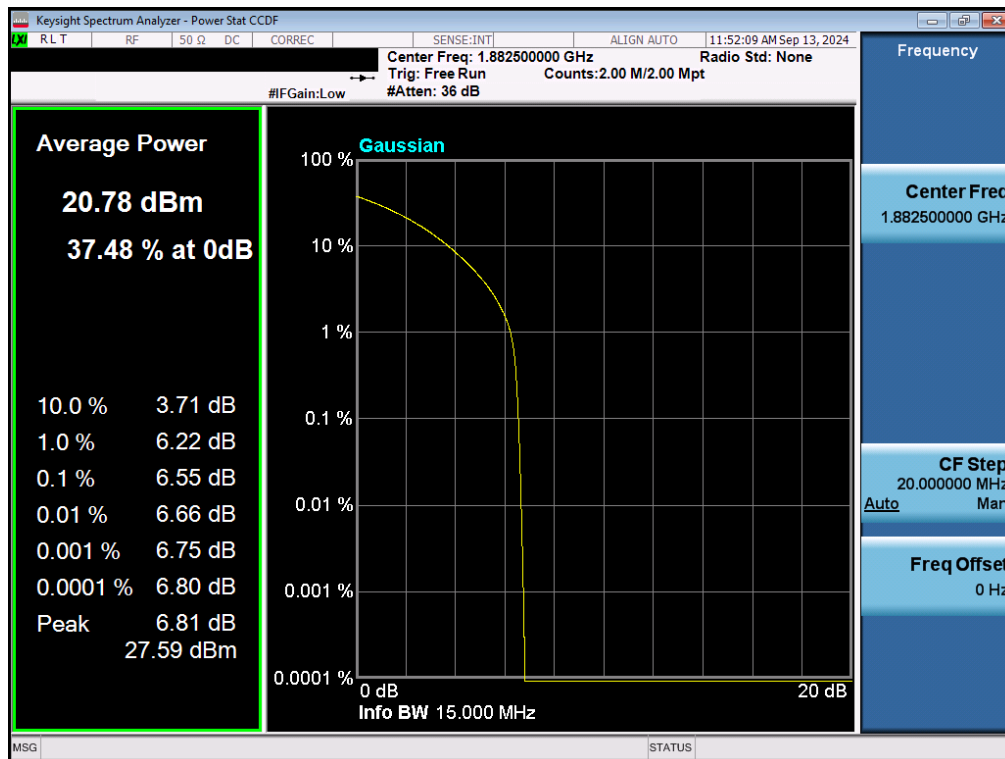


Plot 7-187. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

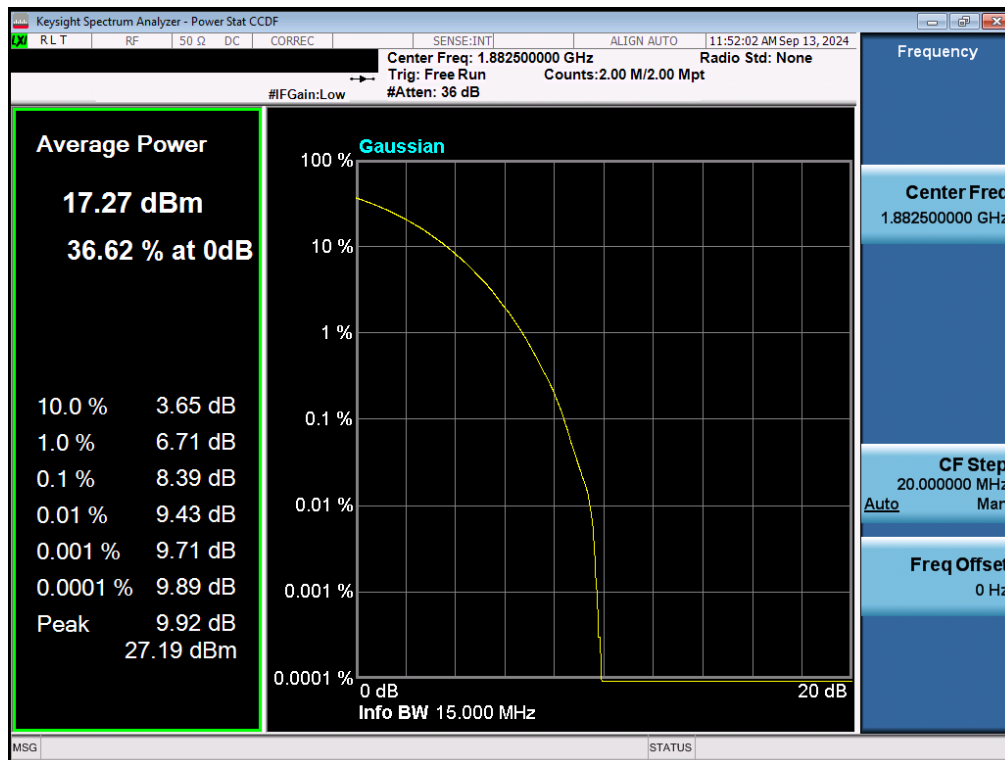


Plot 7-188. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 124 of 174

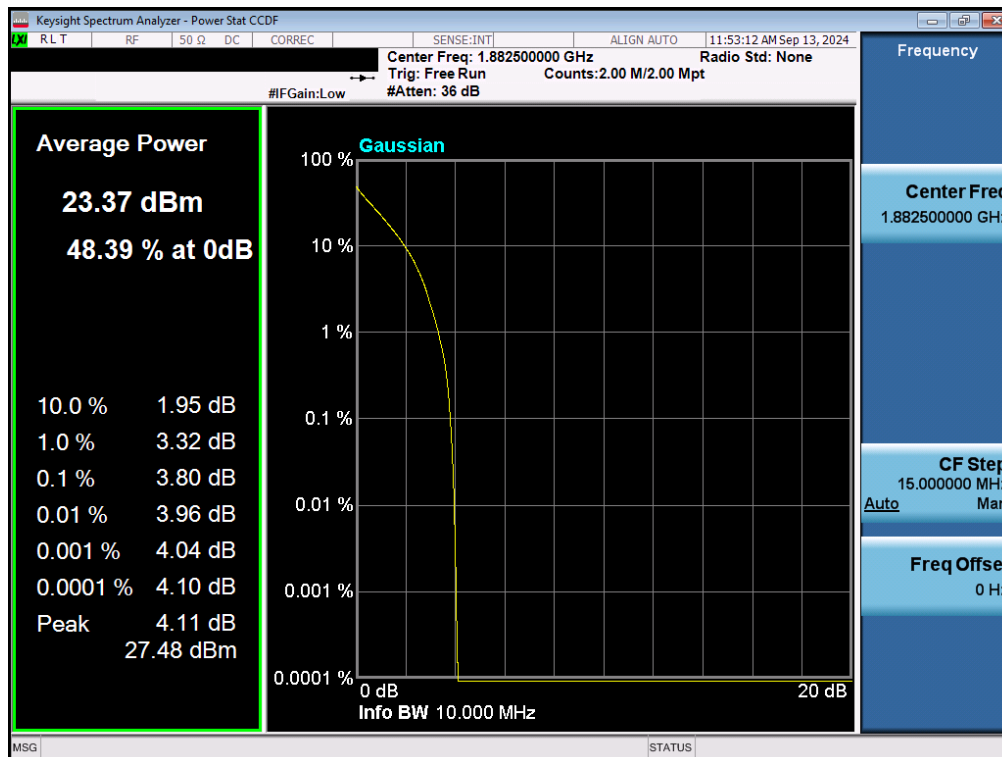


Plot 7-189. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

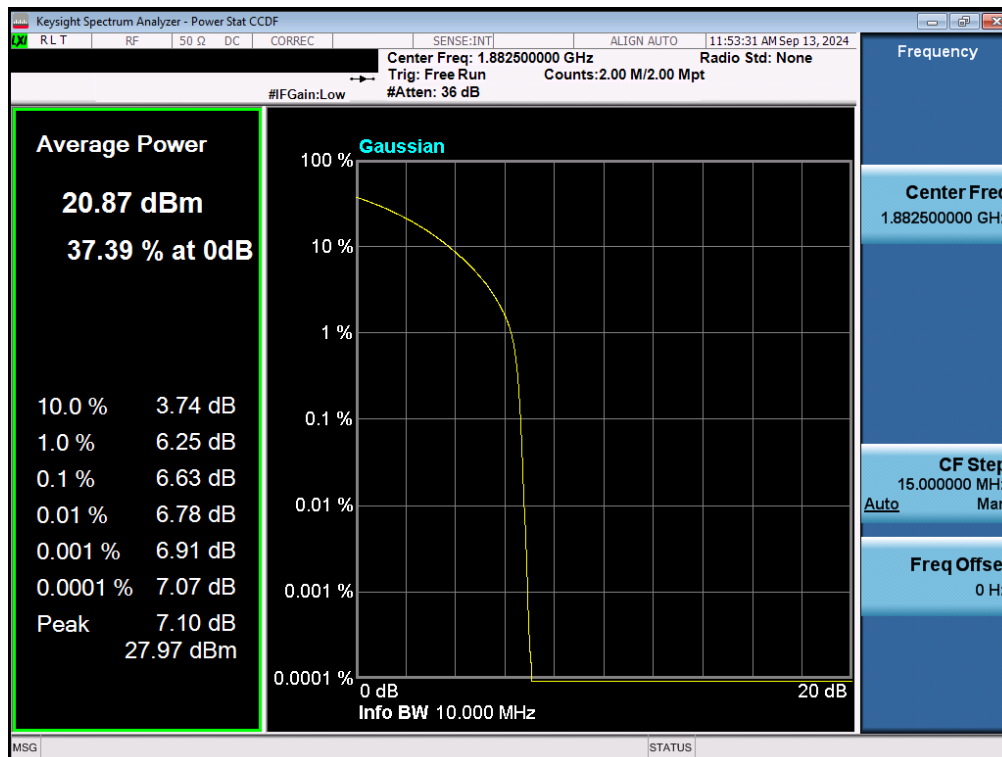


Plot 7-190. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 125 of 174

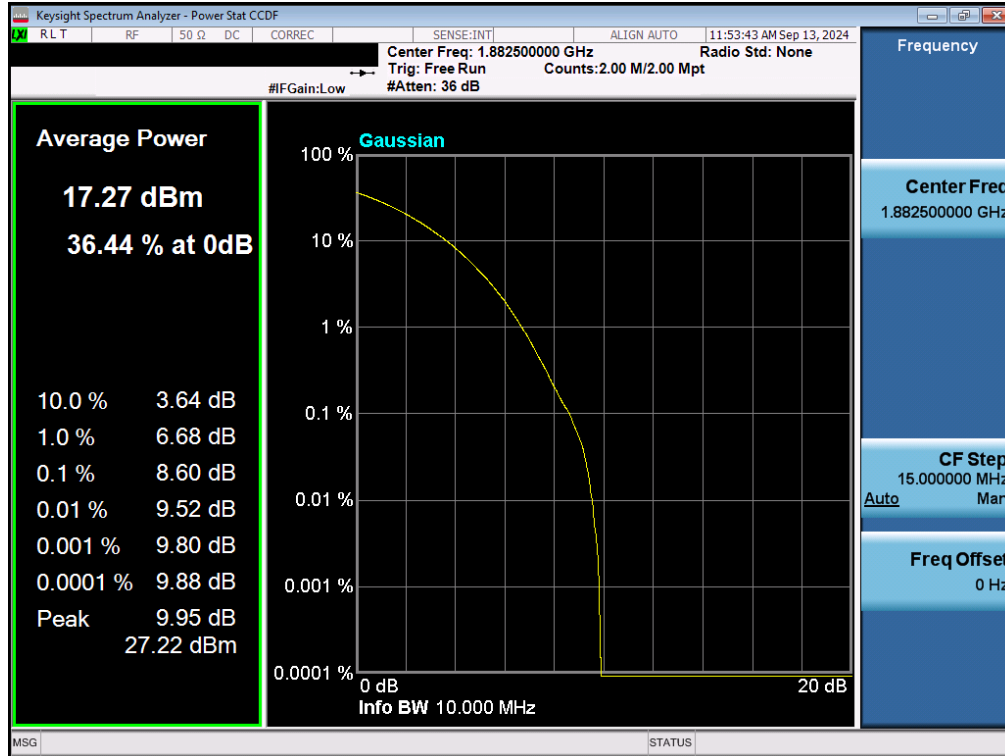


Plot 7-191. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

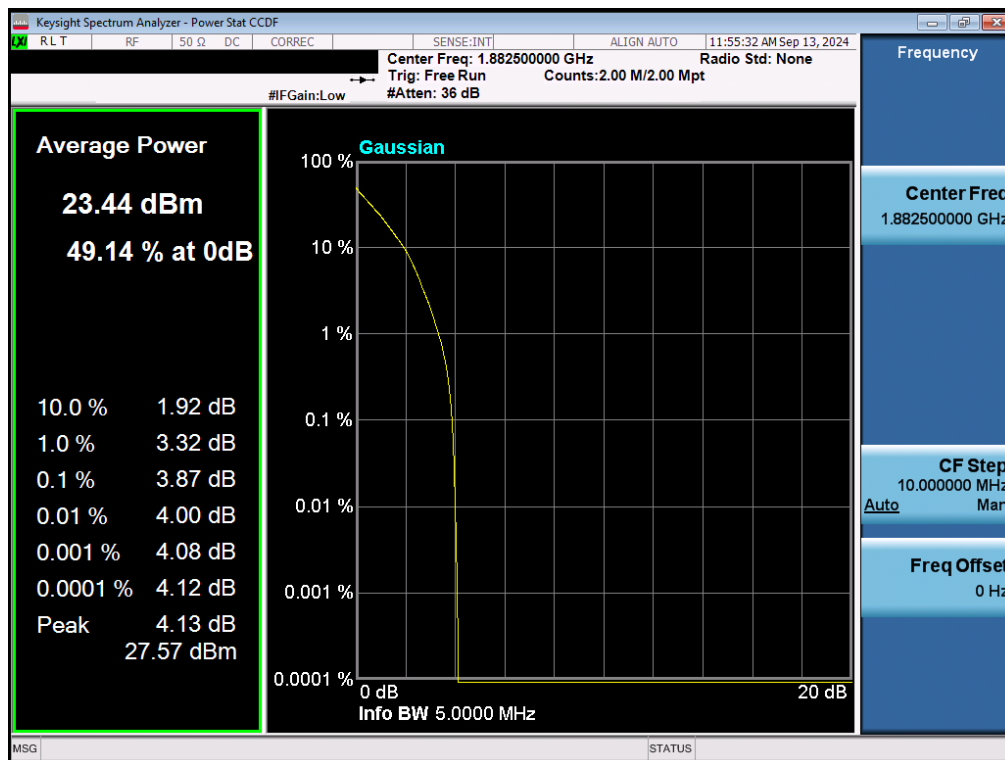


Plot 7-192. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 126 of 174

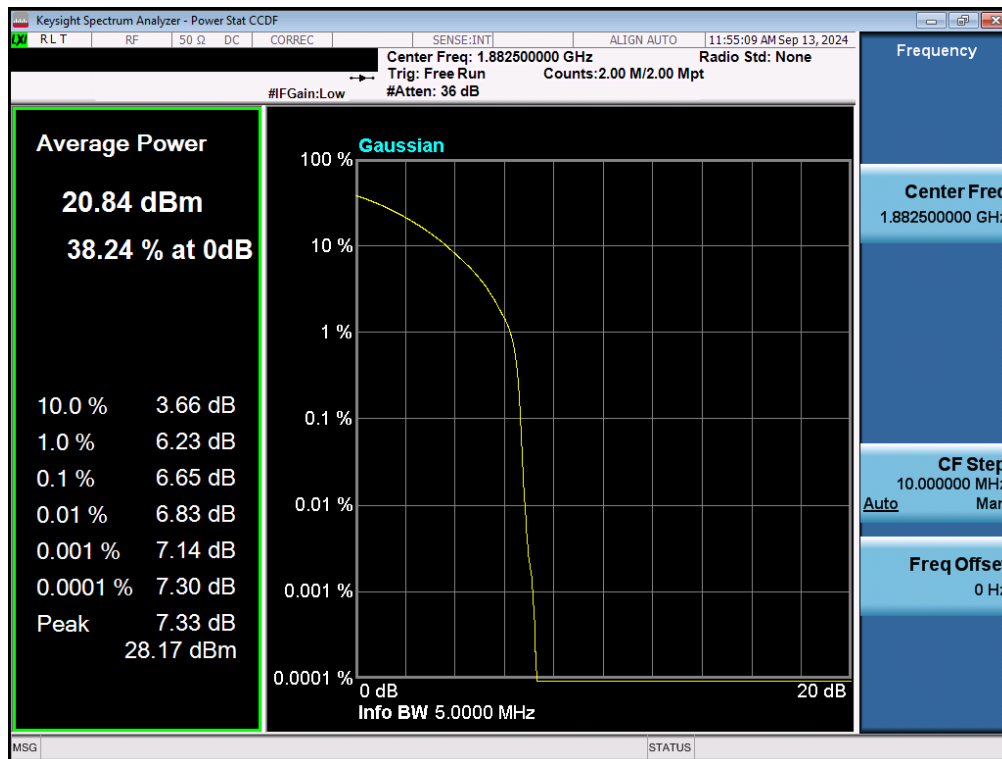


Plot 7-193. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

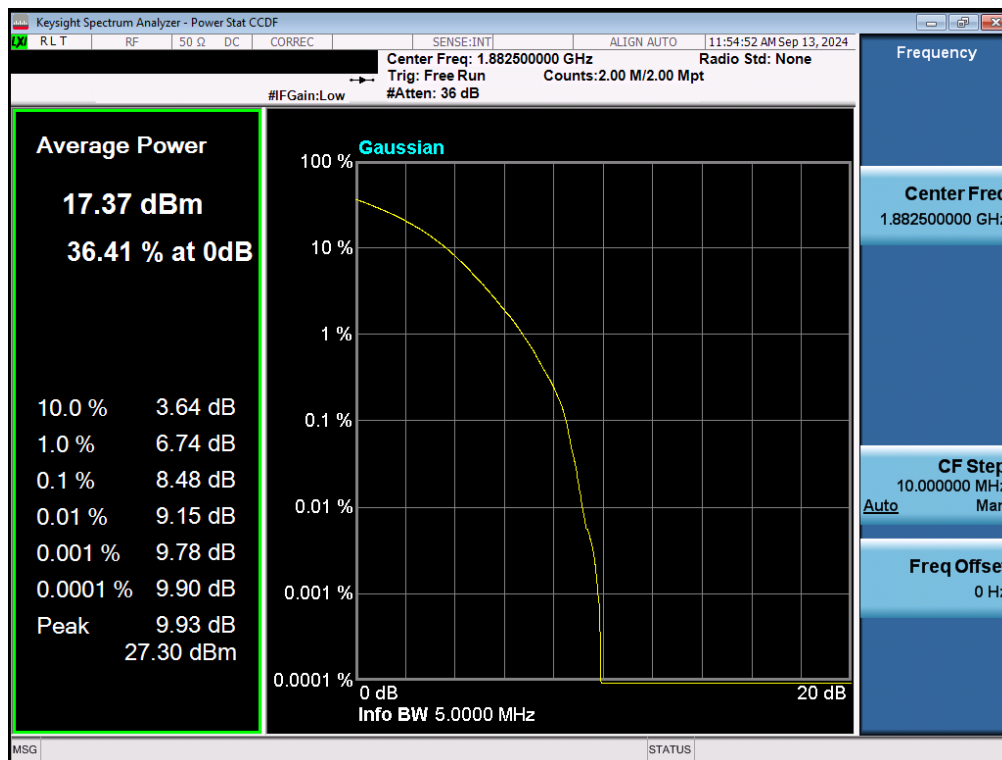


Plot 7-194. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 127 of 174



Plot 7-195. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT1)



Plot 7-196. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 128 of 174

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B25-2	20MHz	QPSK	22.51	4.66	13	-8.34
		256QAM	18.53	6.59	13	-6.41
	15MHz	QPSK	22.49	4.66	13	-8.34
		256QAM	18.53	6.58	13	-6.42
	10MHz	QPSK	22.58	4.72	13	-8.28
		256QAM	18.59	6.61	13	-6.39
	5MHz	QPSK	22.58	4.68	13	-8.32
		256QAM	18.57	6.60	13	-6.40
	3MHz	QPSK	22.60	4.59	13	-8.41
		256QAM	18.59	6.66	13	-6.34
	1.4MHz	QPSK	22.54	4.64	13	-8.36
		256QAM	18.58	6.68	13	-6.32

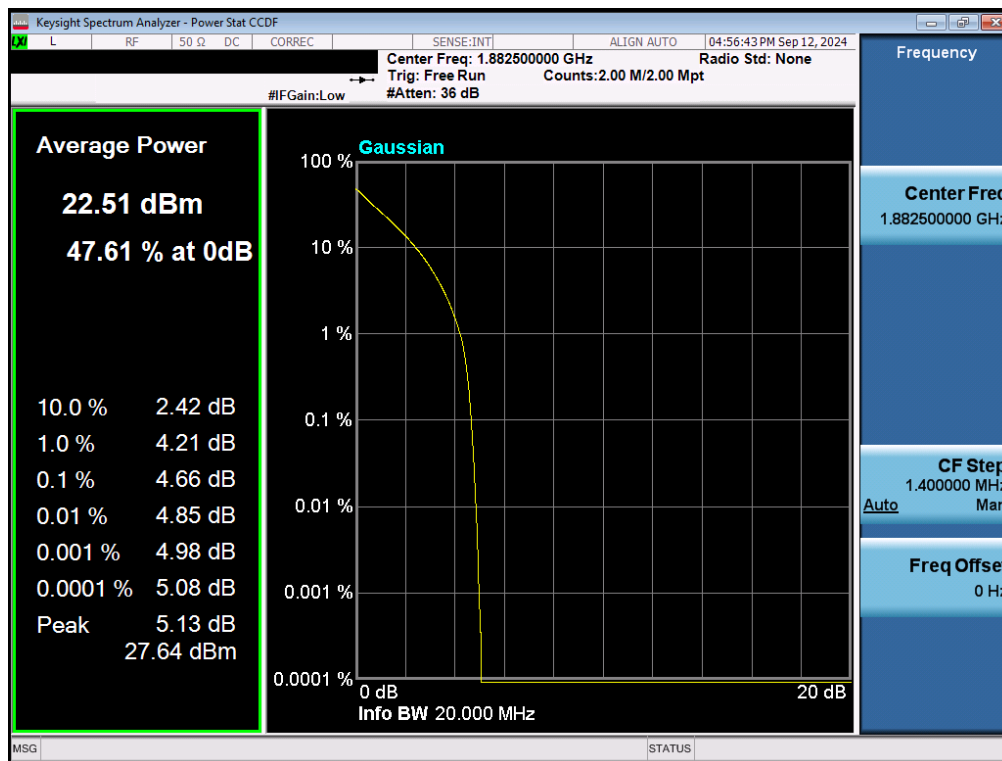
Table 7-14. PAR Test Results – Ant2

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n25-2	40MHz	BPSK	23.42	4.27	13	-8.73
		QPSK	20.89	6.95	13	-6.05
		256QAM	17.29	8.54	13	-4.47
	35MHz	BPSK	23.25	3.94	13	-9.06
		QPSK	20.68	7.33	13	-5.67
		256QAM	17.19	8.59	13	-4.41
	30MHz	BPSK	23.28	4.16	13	-8.84
		QPSK	20.71	7.20	13	-5.80
		256QAM	17.27	8.56	13	-4.44
	25MHz	BPSK	23.38	4.06	13	-8.94
		QPSK	20.85	7.24	13	-5.76
		256QAM	17.25	8.80	13	-4.20
	20MHz	BPSK	23.35	4.17	13	-8.83
		QPSK	20.72	7.18	13	-5.82
		256QAM	17.22	8.64	13	-4.36
	15MHz	BPSK	23.24	4.26	13	-8.74
		QPSK	20.86	7.13	13	-5.87
		256QAM	17.28	8.60	13	-4.40
	10MHz	BPSK	23.40	4.15	13	-8.85
		QPSK	20.81	6.99	13	-6.01
		256QAM	17.22	8.89	13	-4.11
	5MHz	BPSK	23.33	4.22	13	-8.78
		QPSK	20.88	7.14	13	-5.86
		256QAM	17.33	8.66	13	-4.34

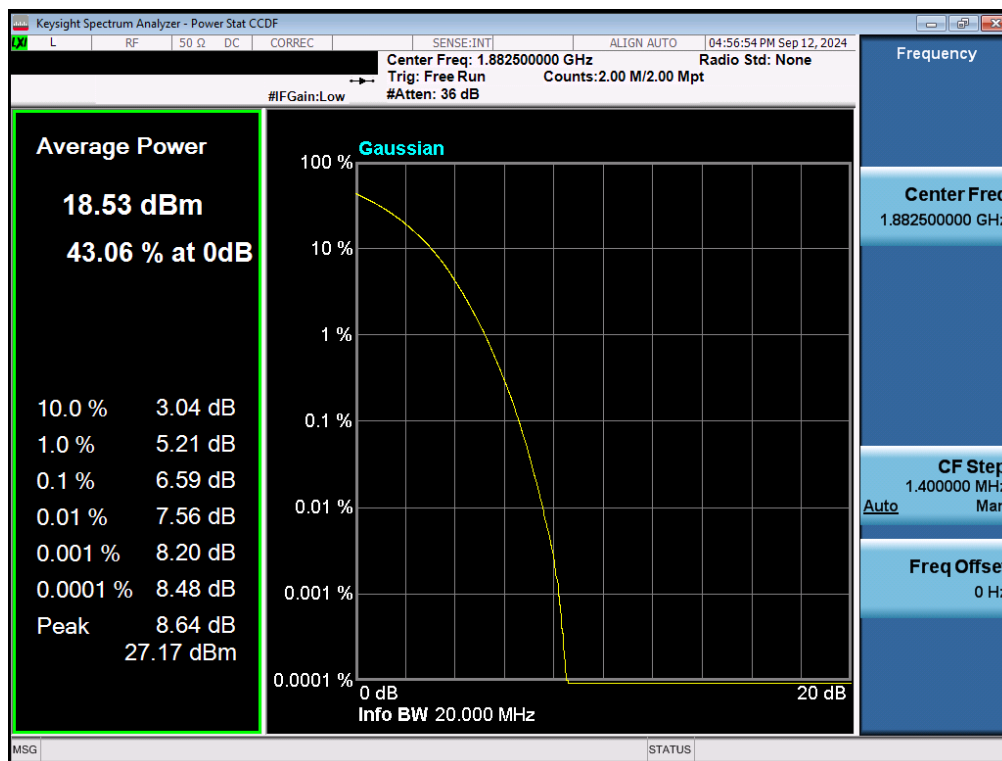
Table 7-15. PAR Test Results – Ant2

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2 – Ant2

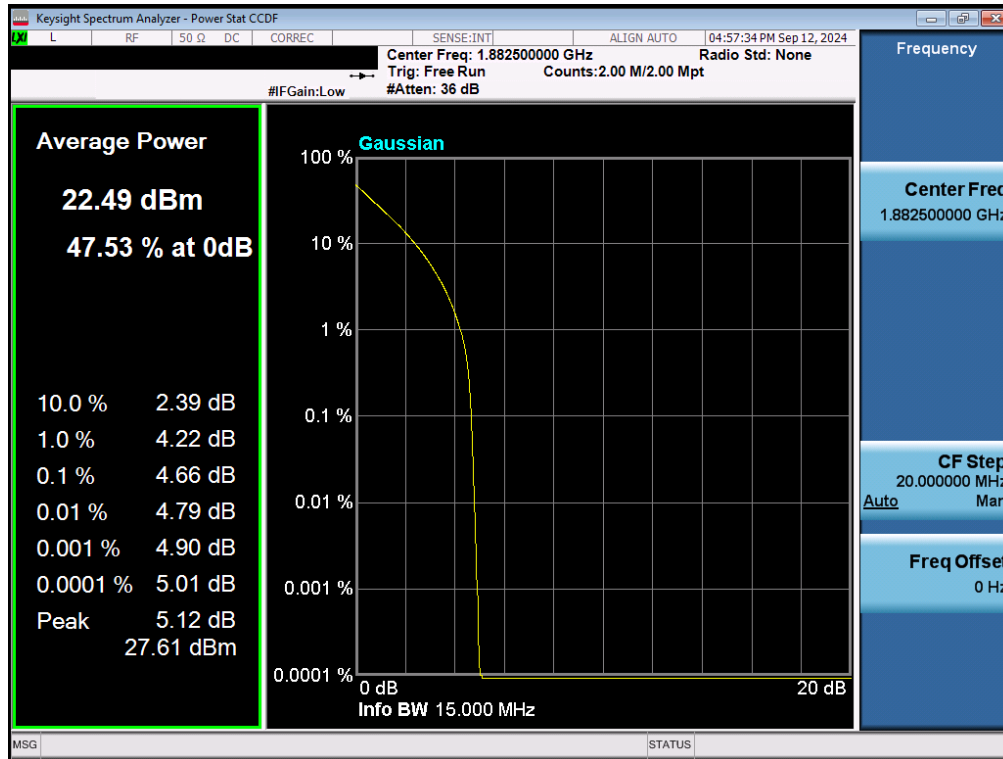


Plot 7-197. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - Ant2)

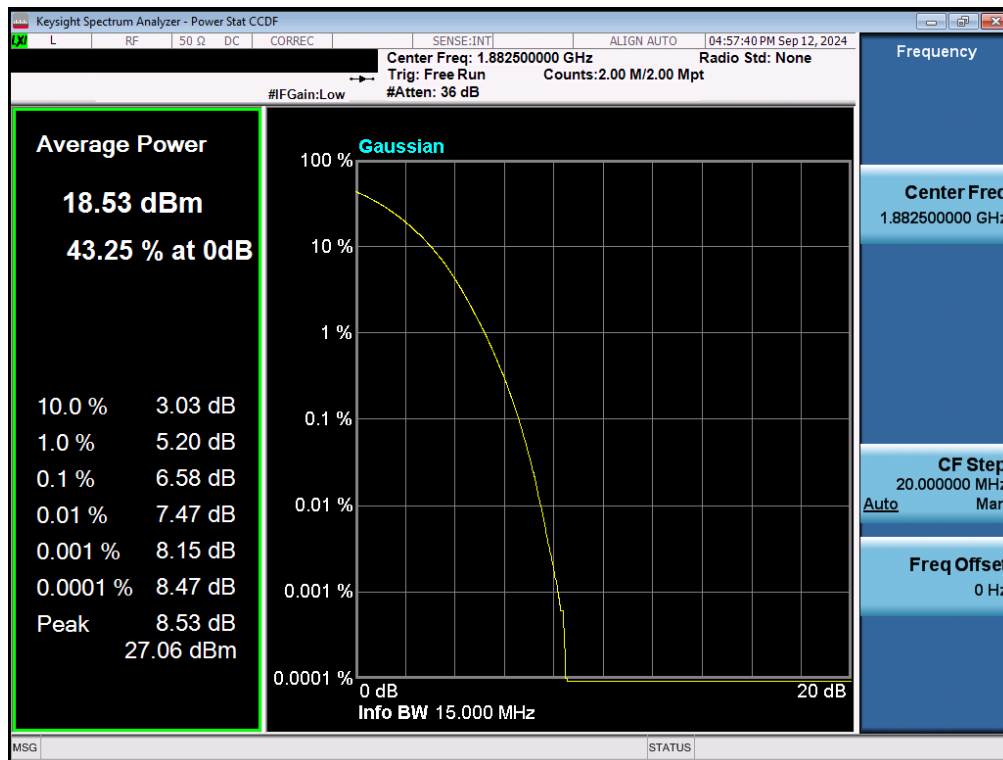


Plot 7-198. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 130 of 174

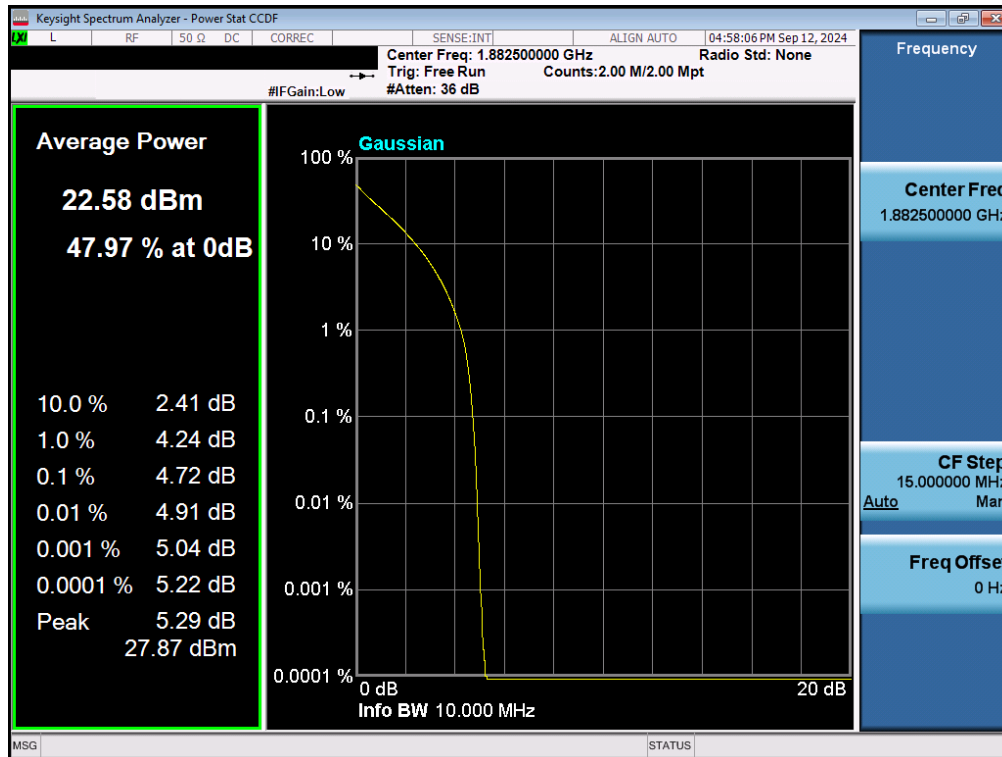


Plot 7-199. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant2)

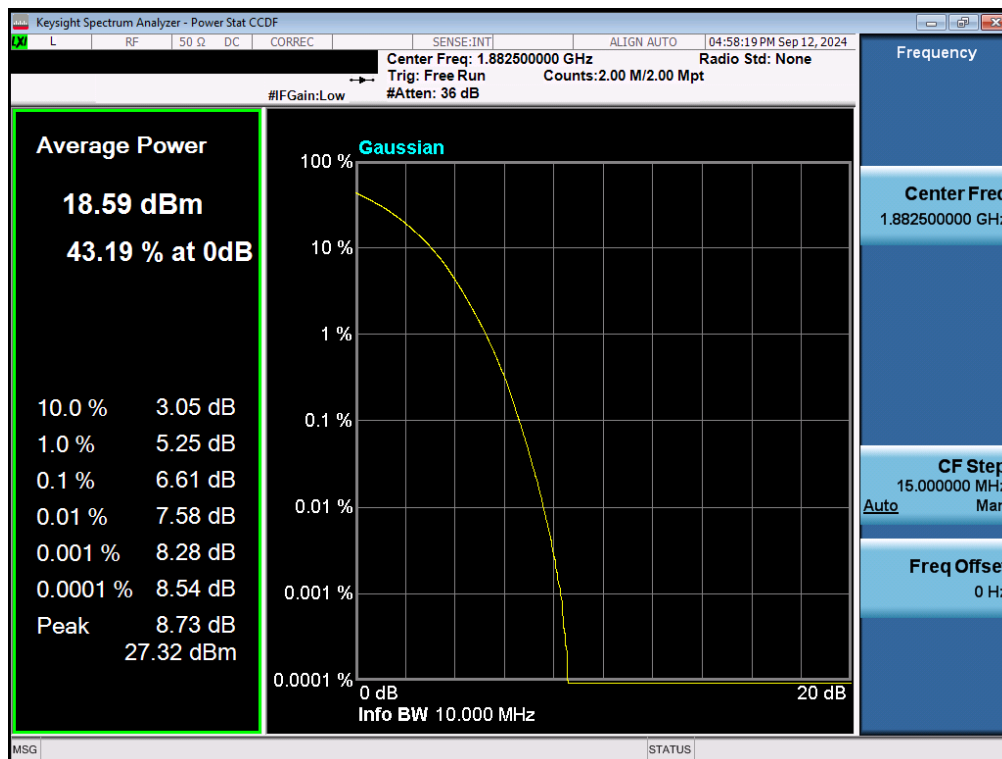


Plot 7-200. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 131 of 174

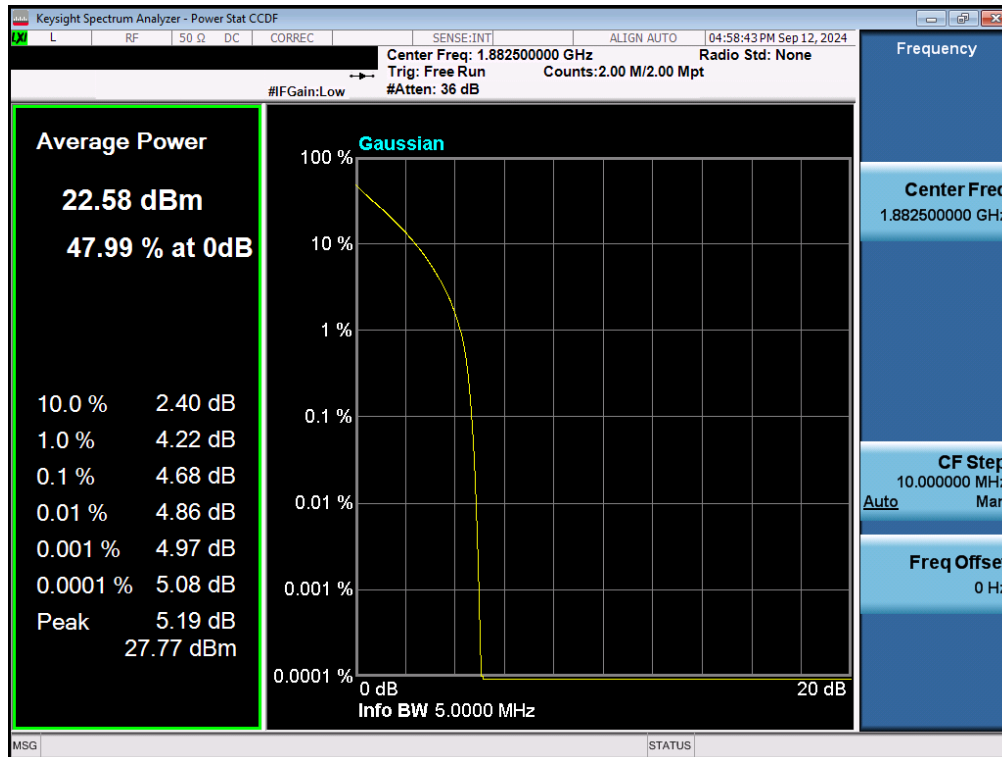


Plot 7-201. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant2)

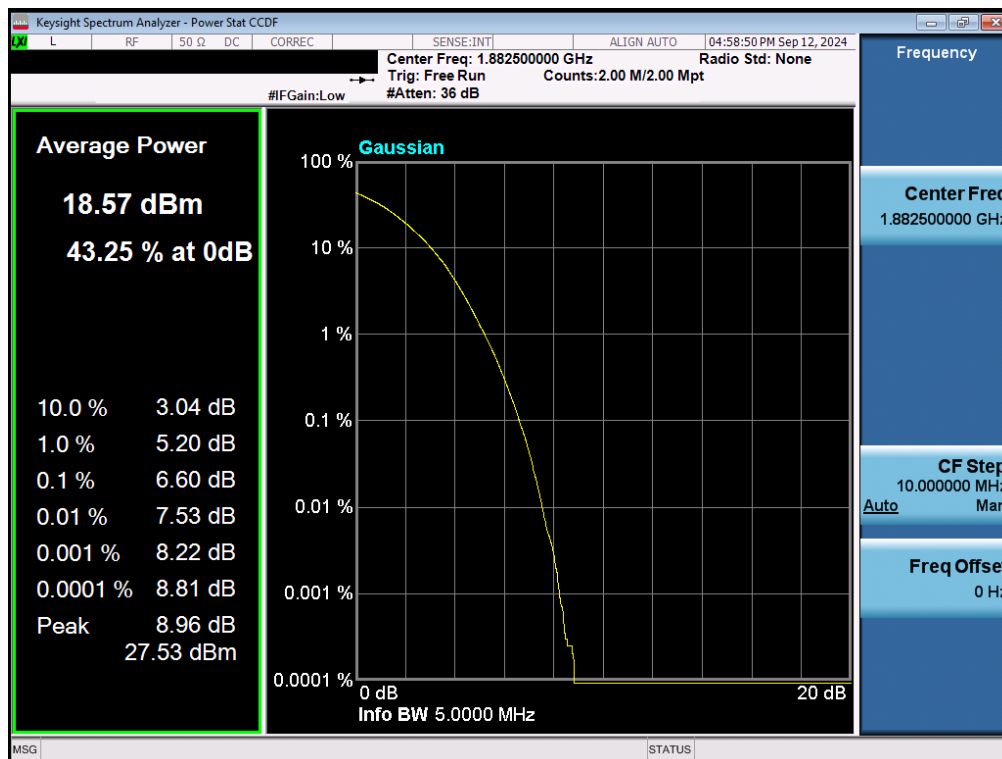


Plot 7-202. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 132 of 174

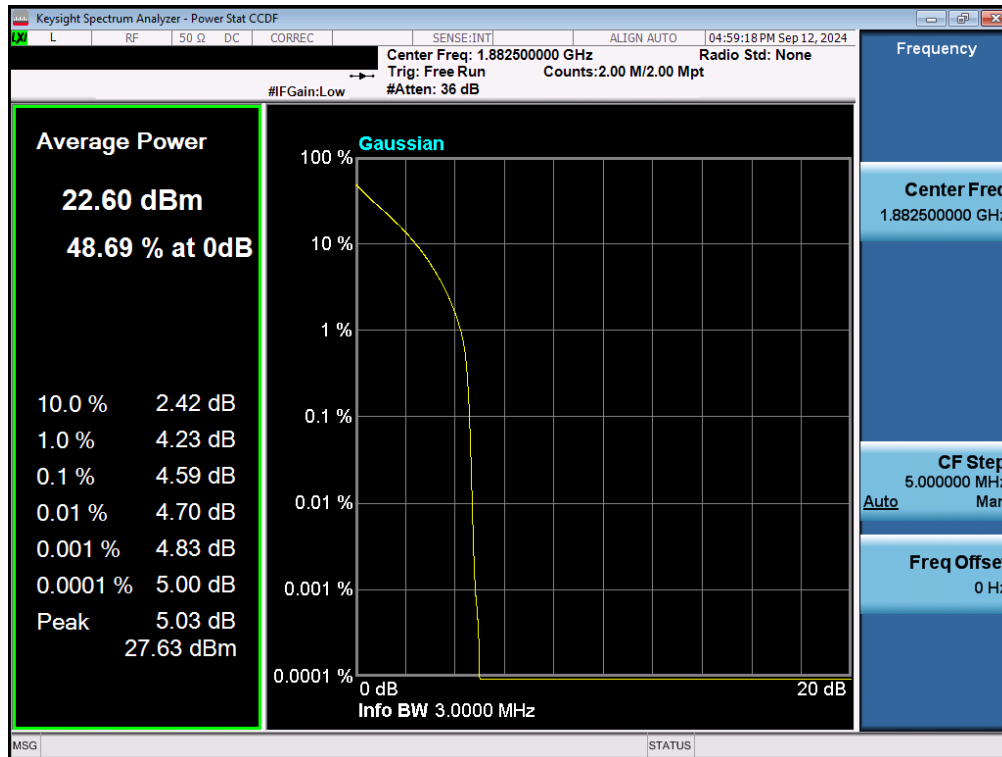


Plot 7-203. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant2)

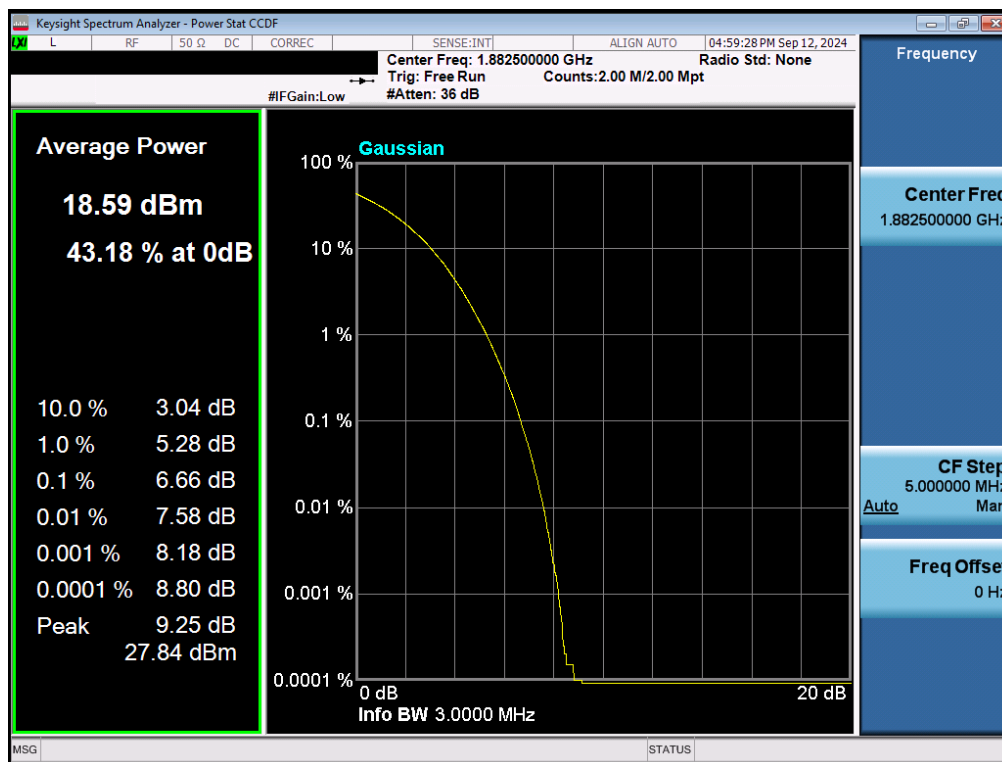


Plot 7-204. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 133 of 174

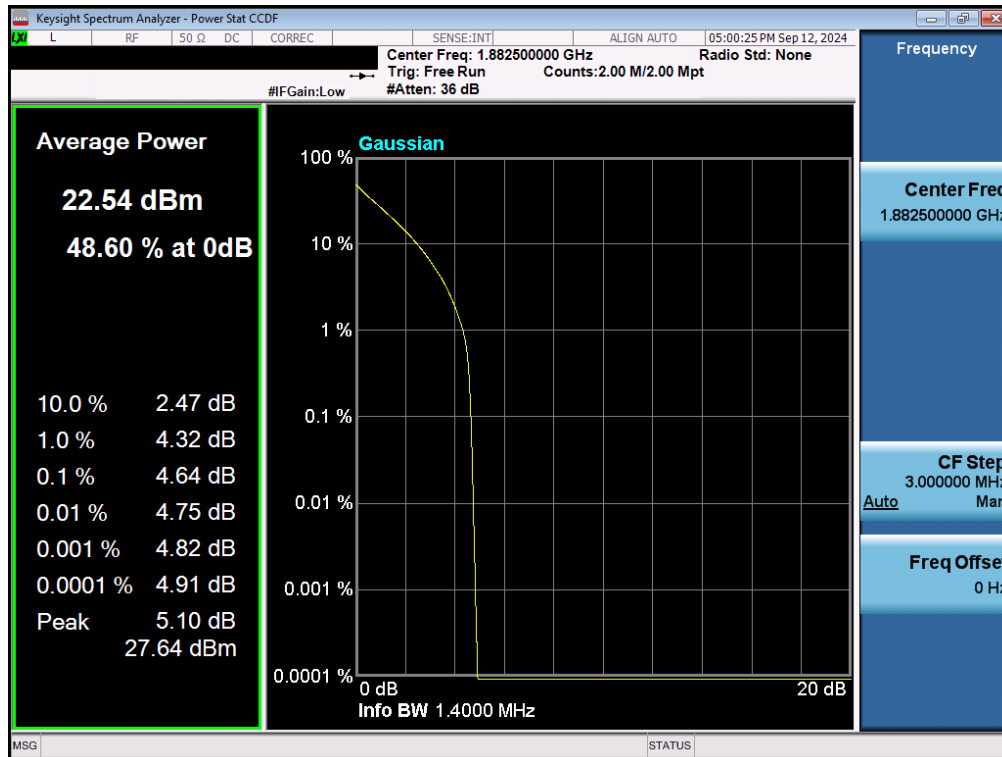


Plot 7-205. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant2)

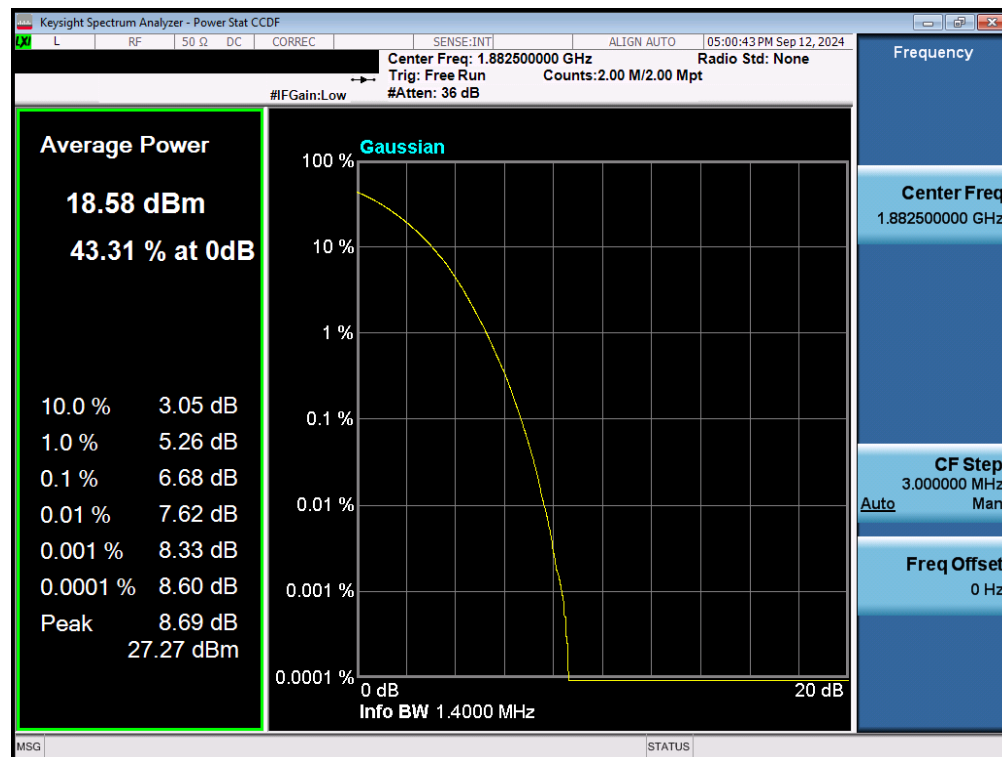


Plot 7-206. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 134 of 174



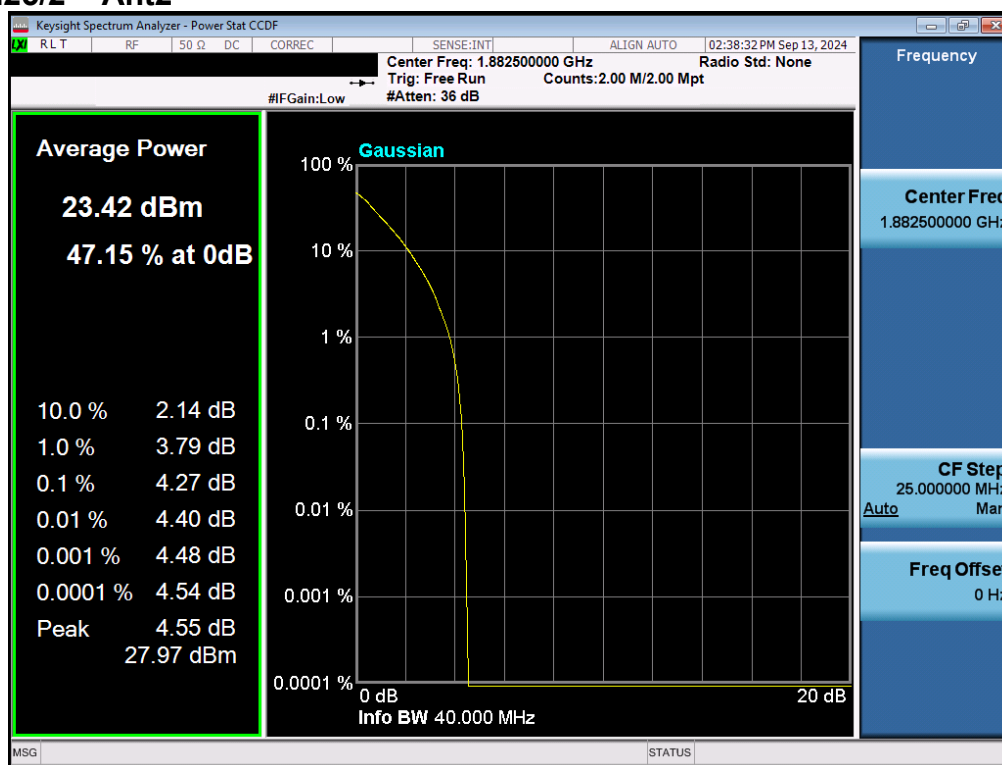
Plot 7-207. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant2)



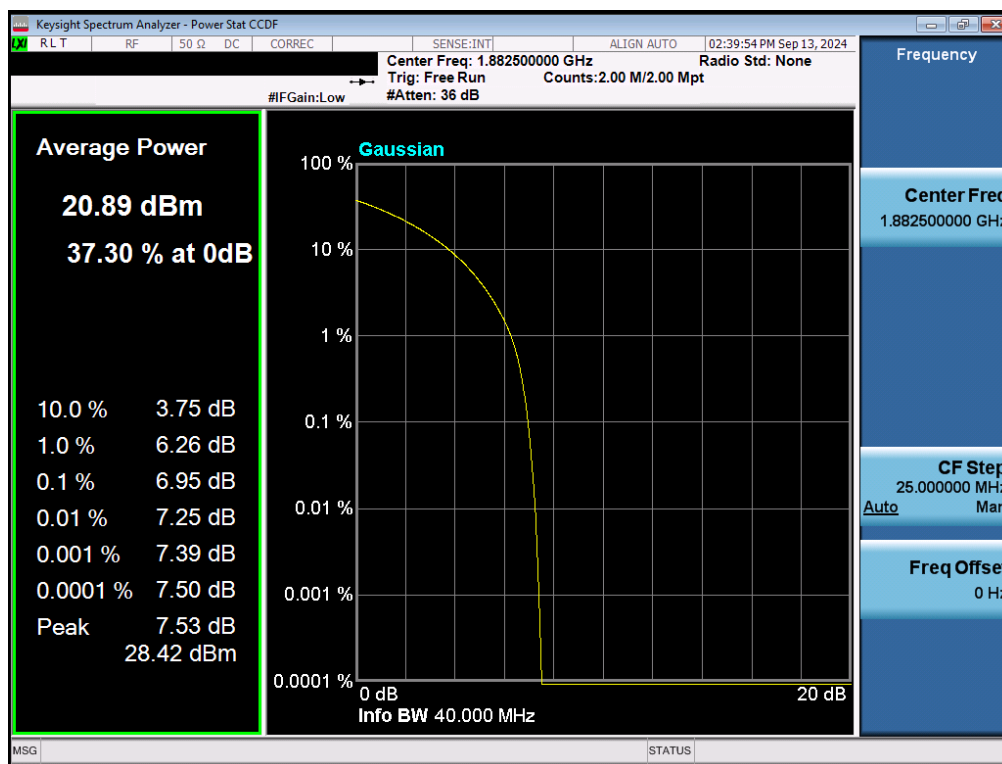
Plot 7-208. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 135 of 174

NR Band n25/2 – Ant2

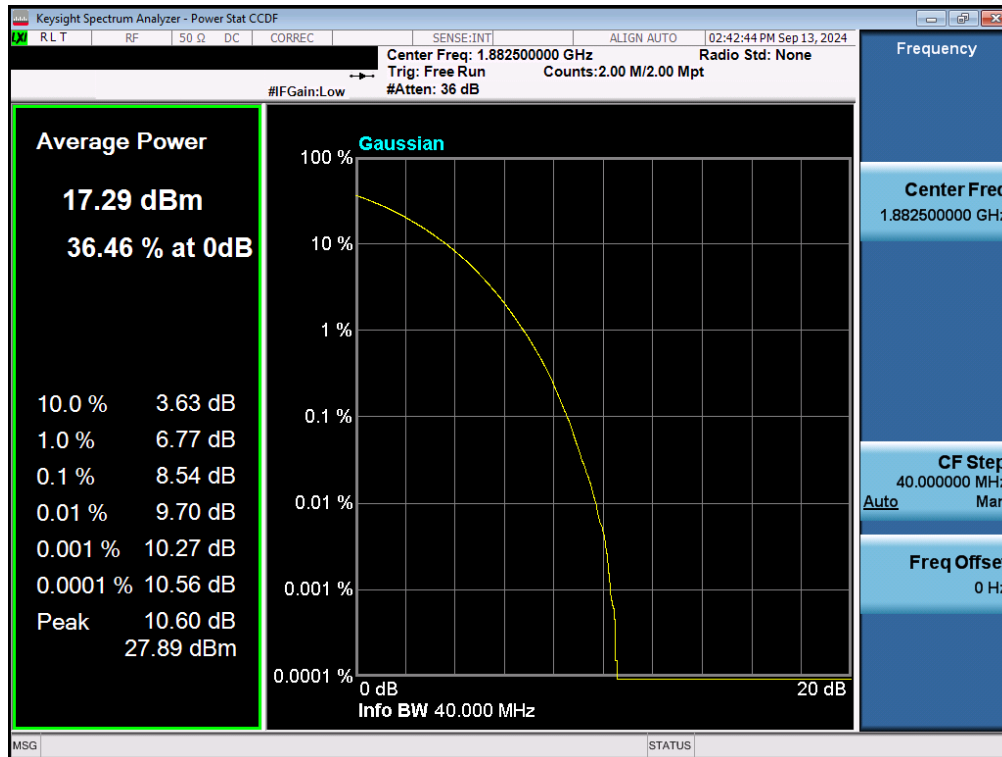


Plot 7-209. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

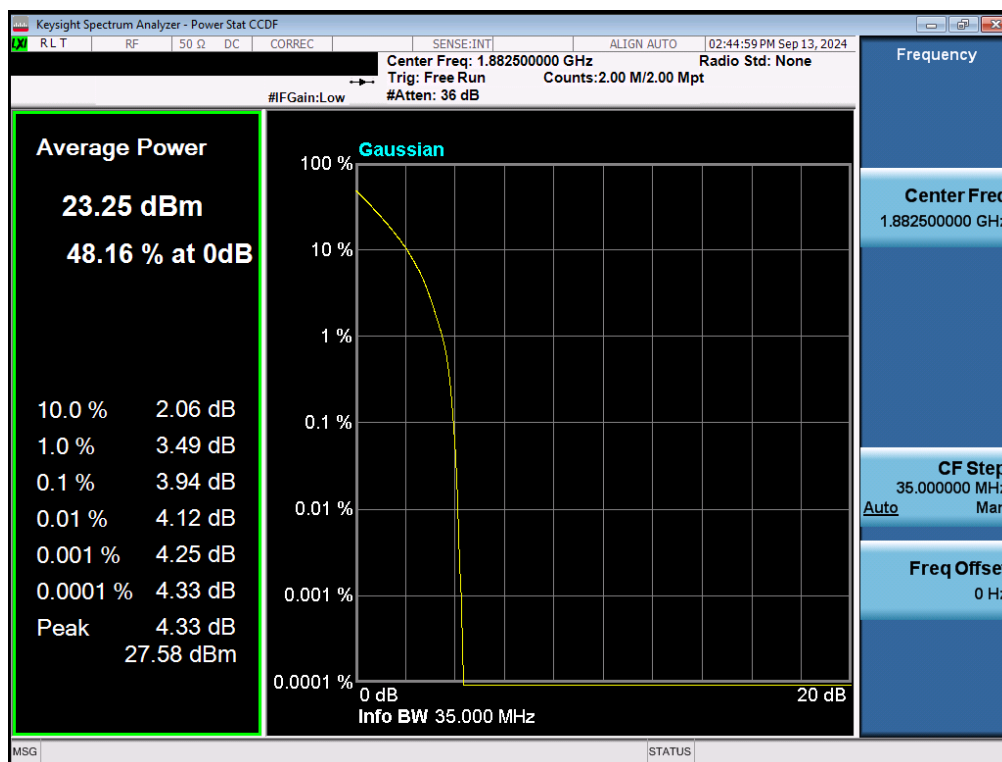


Plot 7-210. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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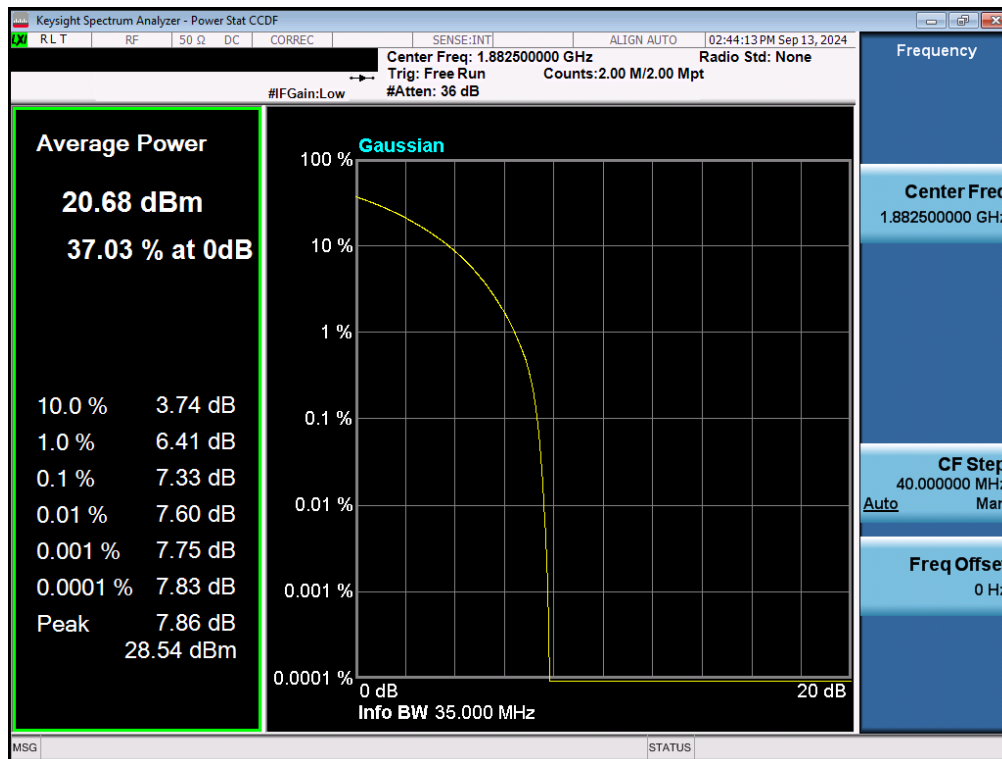


Plot 7-211. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

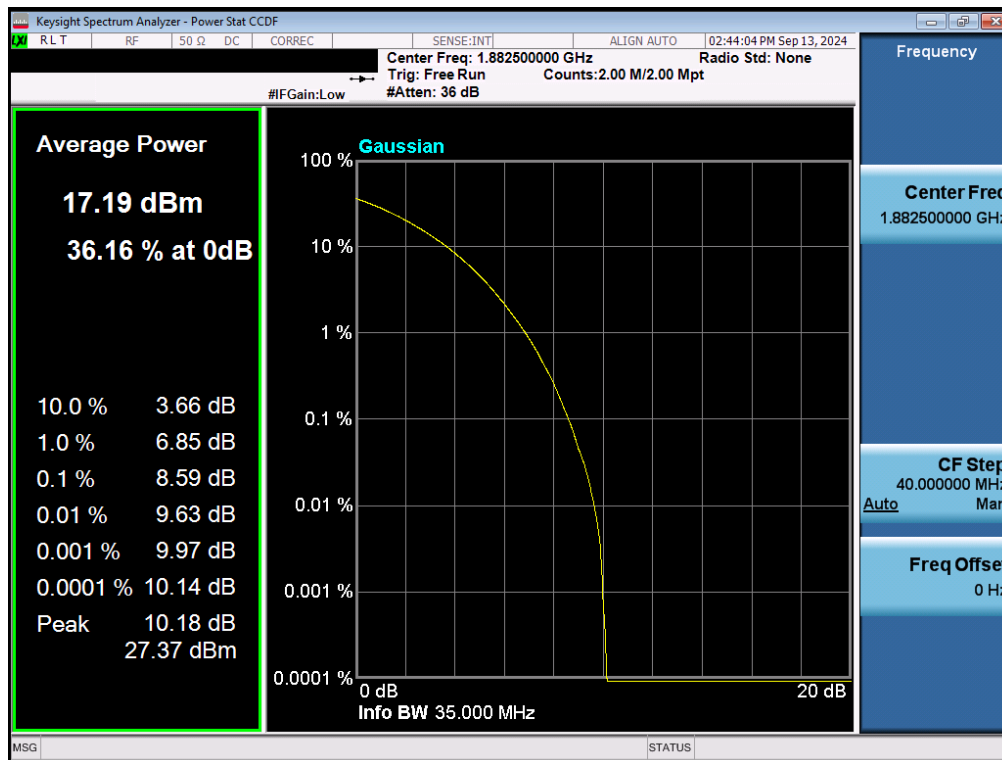


Plot 7-212. PAR Plot (NR Band n25/2 - 35.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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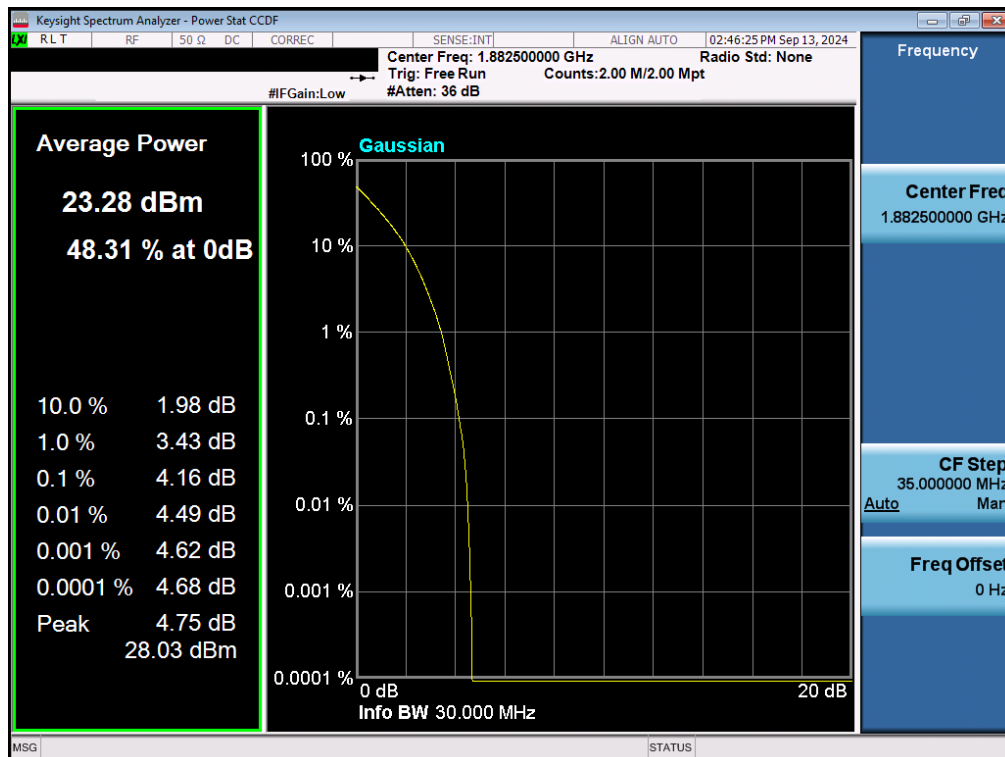


Plot 7-213. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM QPSK - Full RB - ANT2)

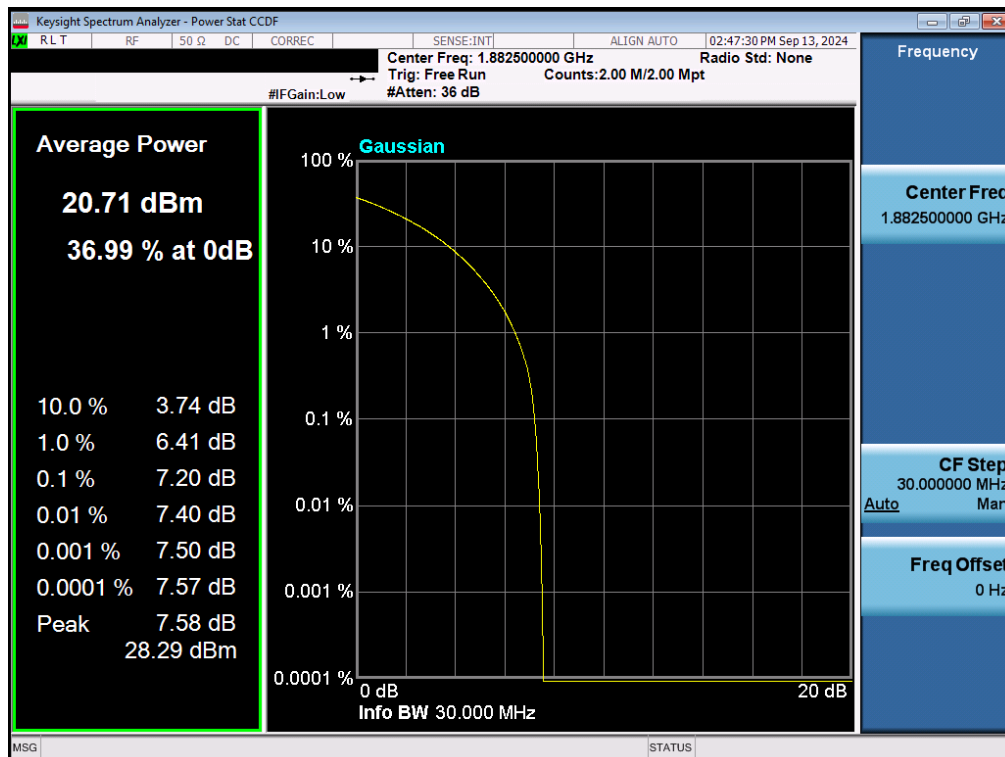


Plot 7-214. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 138 of 174

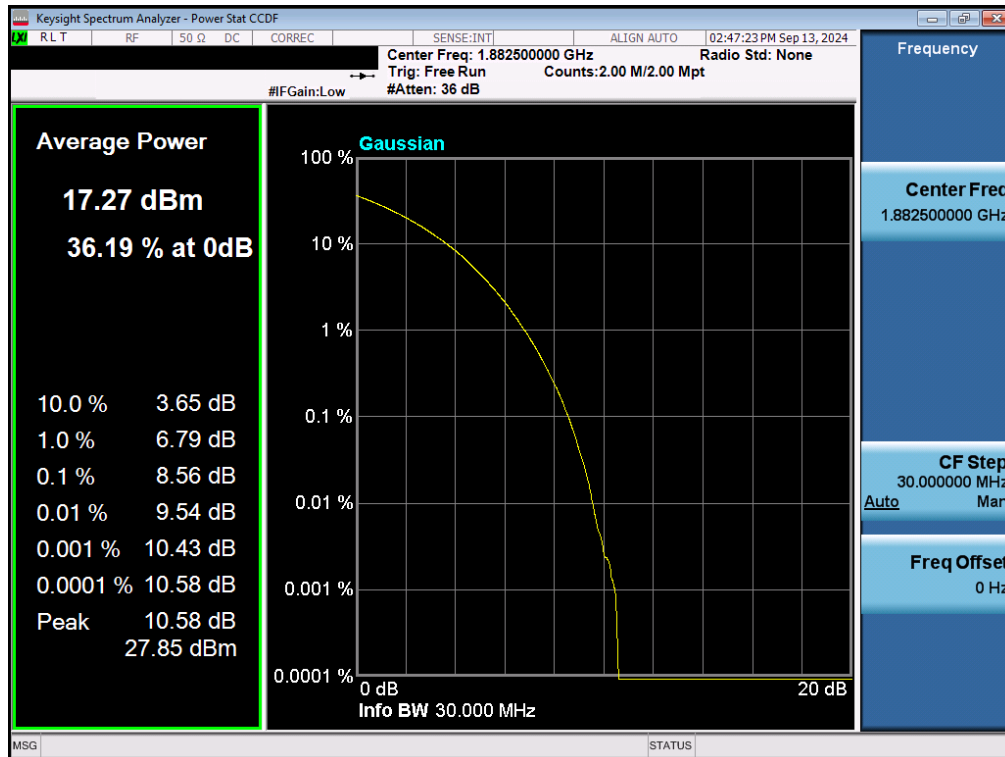


Plot 7-215. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

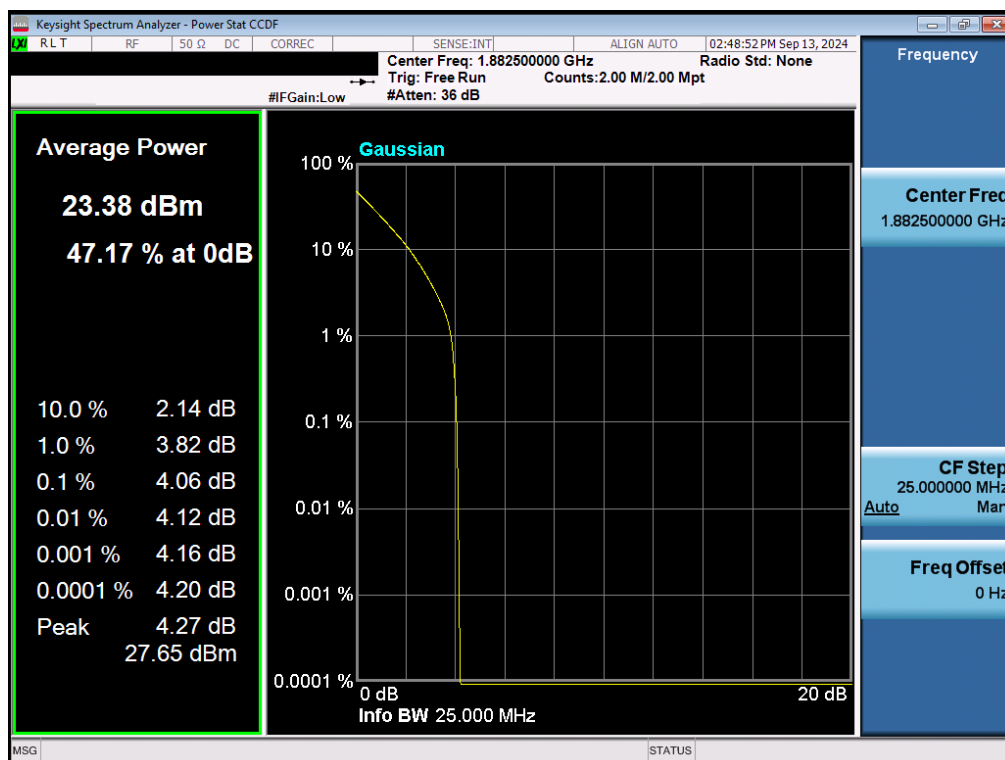


Plot 7-216. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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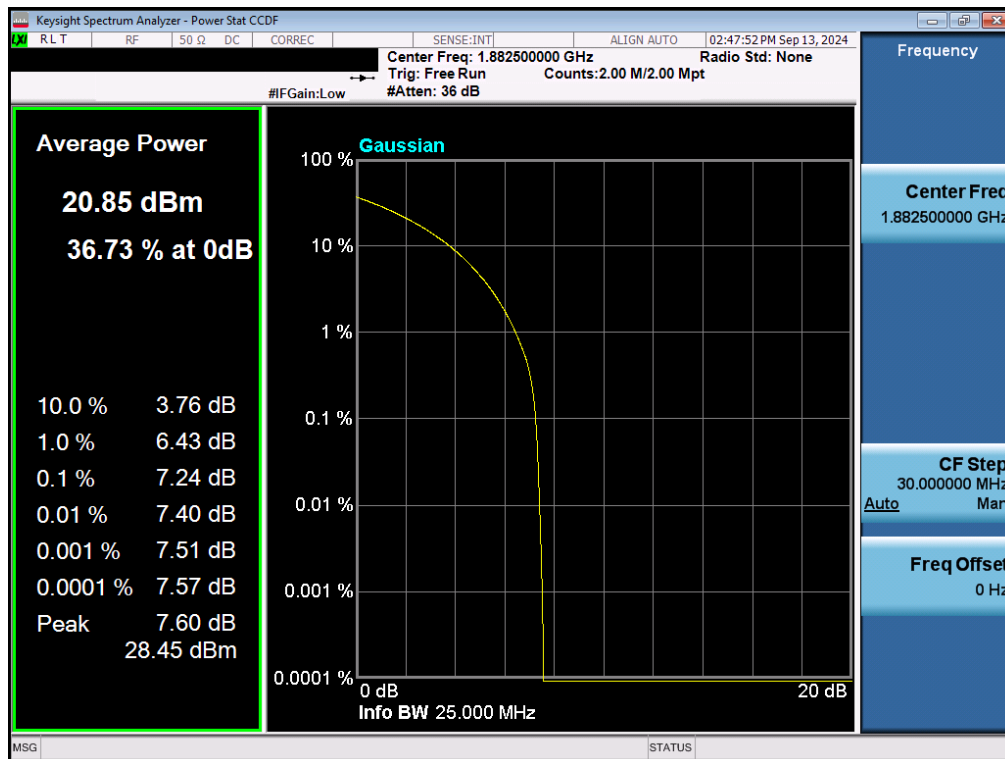


Plot 7-217. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

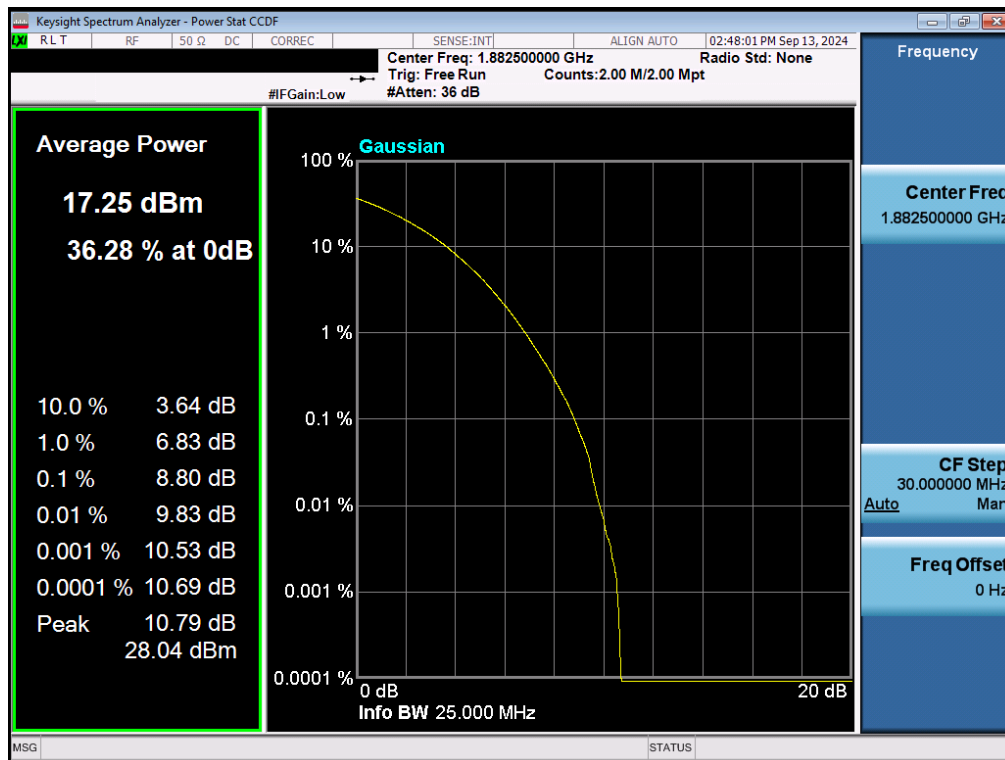


Plot 7-218. PAR Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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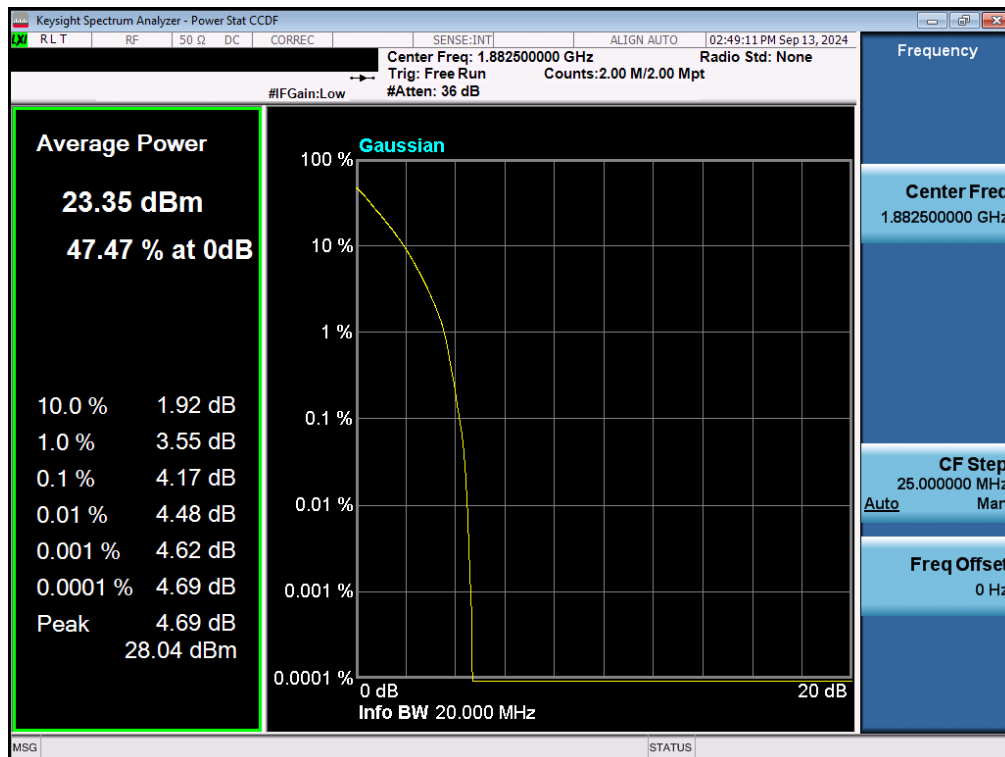


Plot 7-219. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM QPSK - Full RB - ANT2)

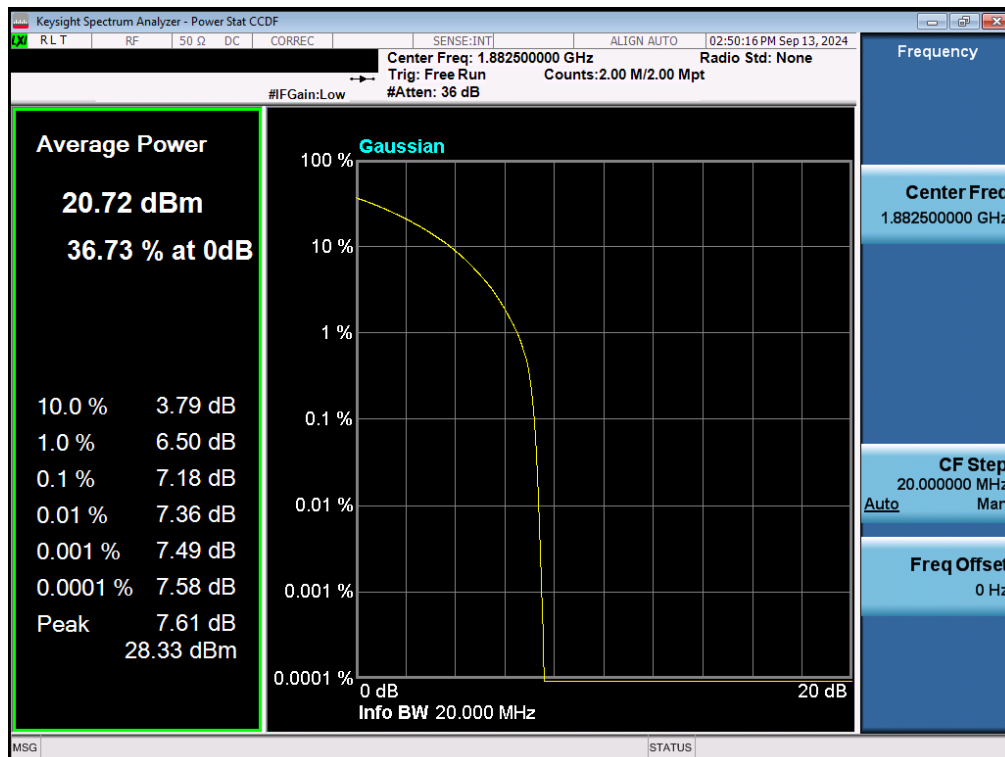


Plot 7-220. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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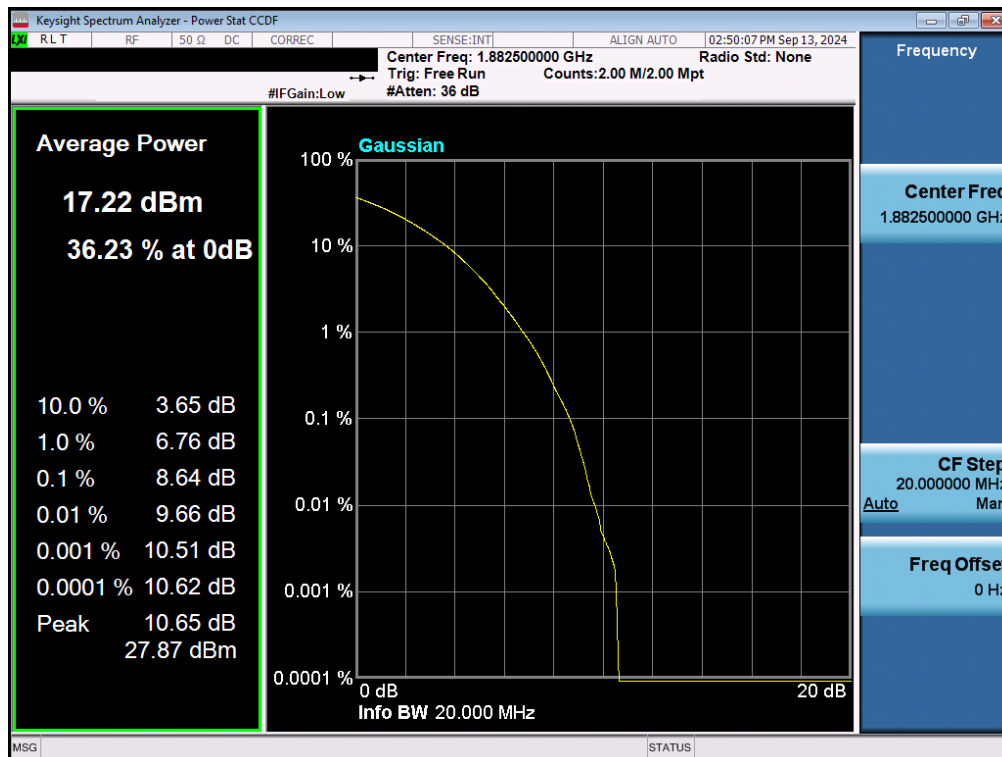


Plot 7-221. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

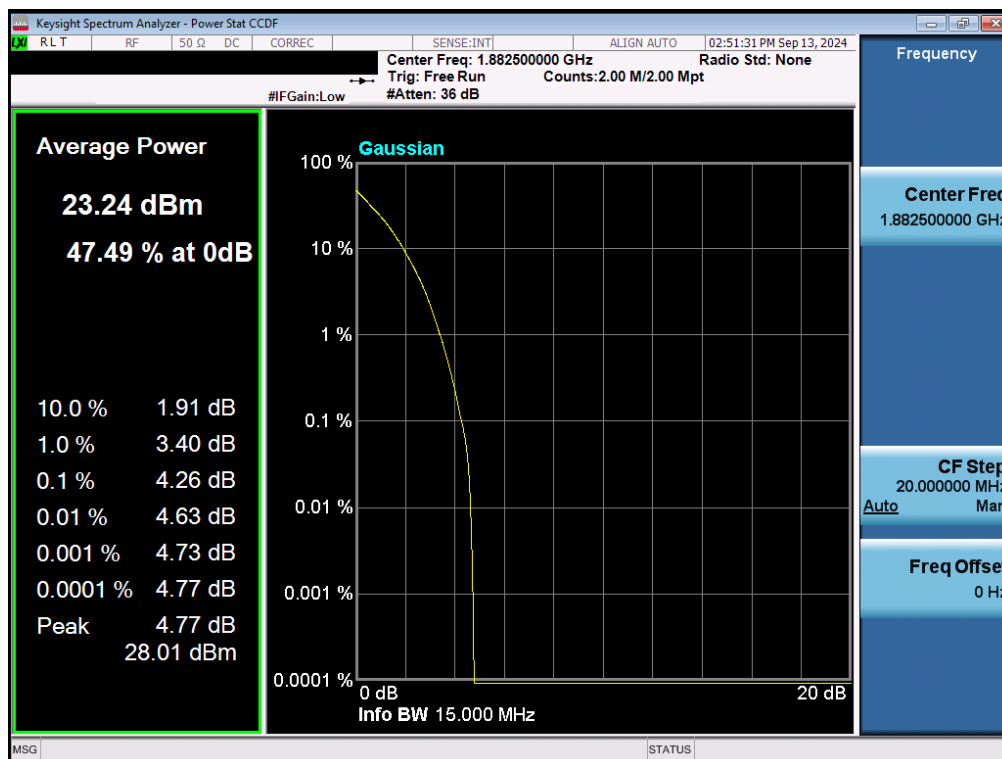


Plot 7-222. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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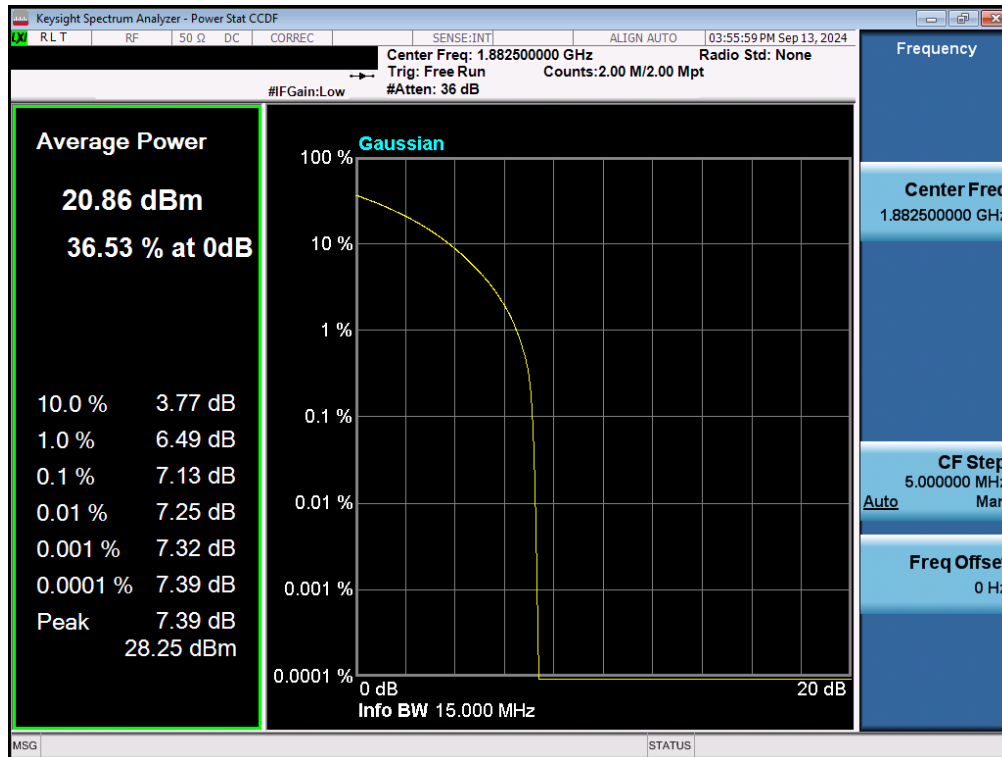


Plot 7-223. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

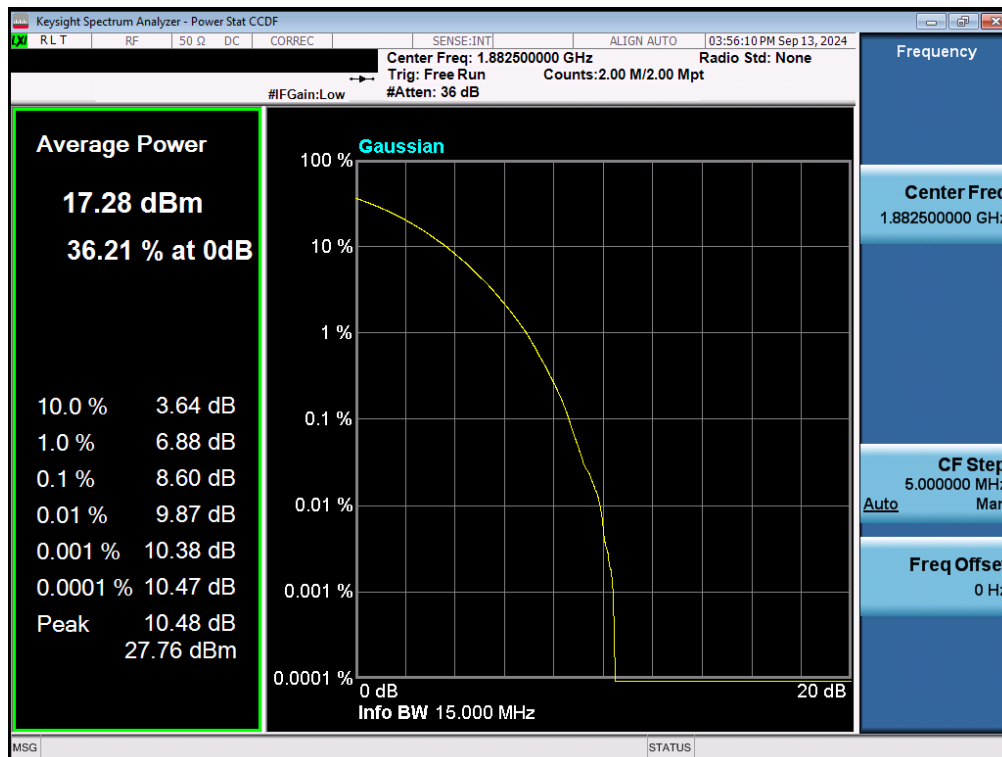


Plot 7-224. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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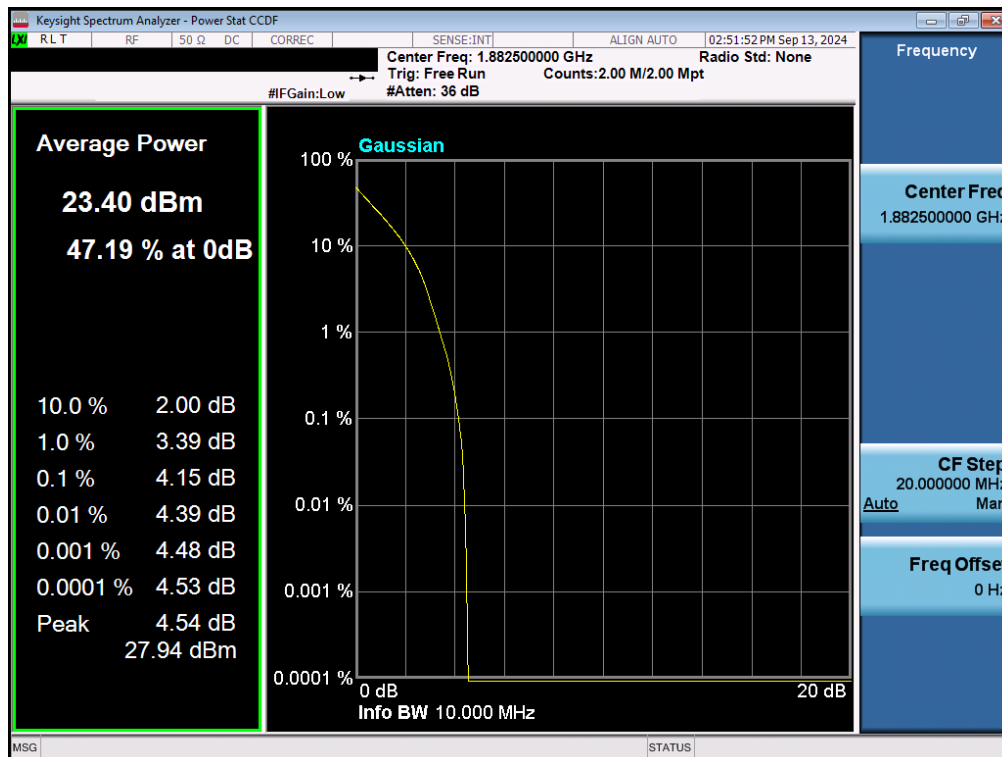


Plot 7-225. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT2)

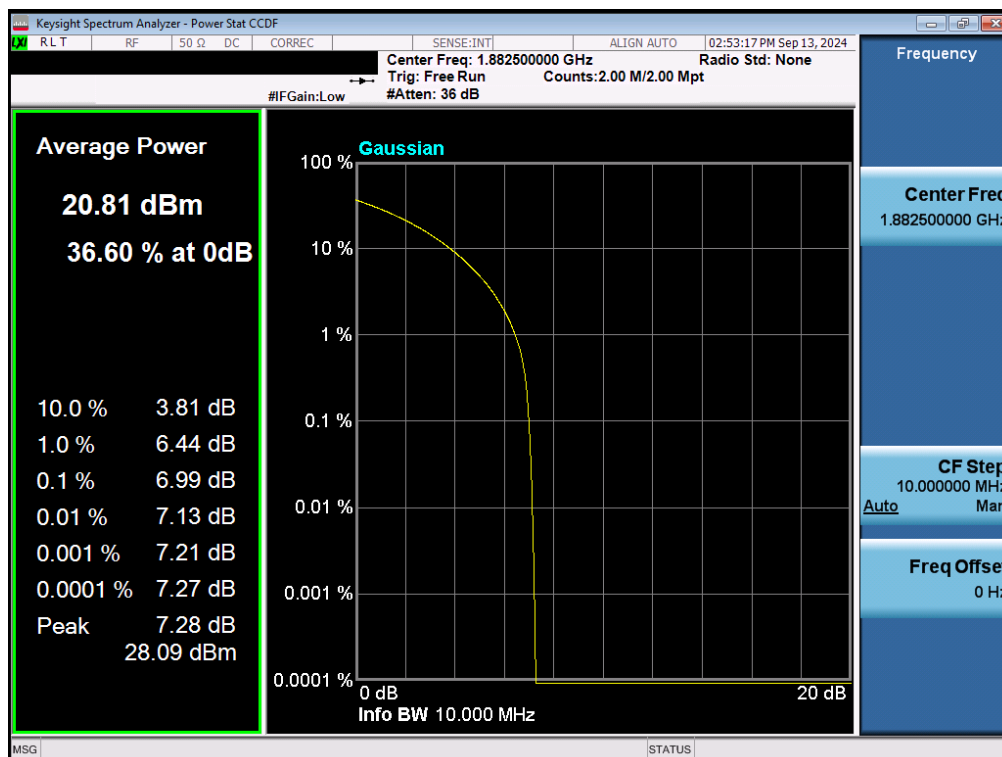


Plot 7-226. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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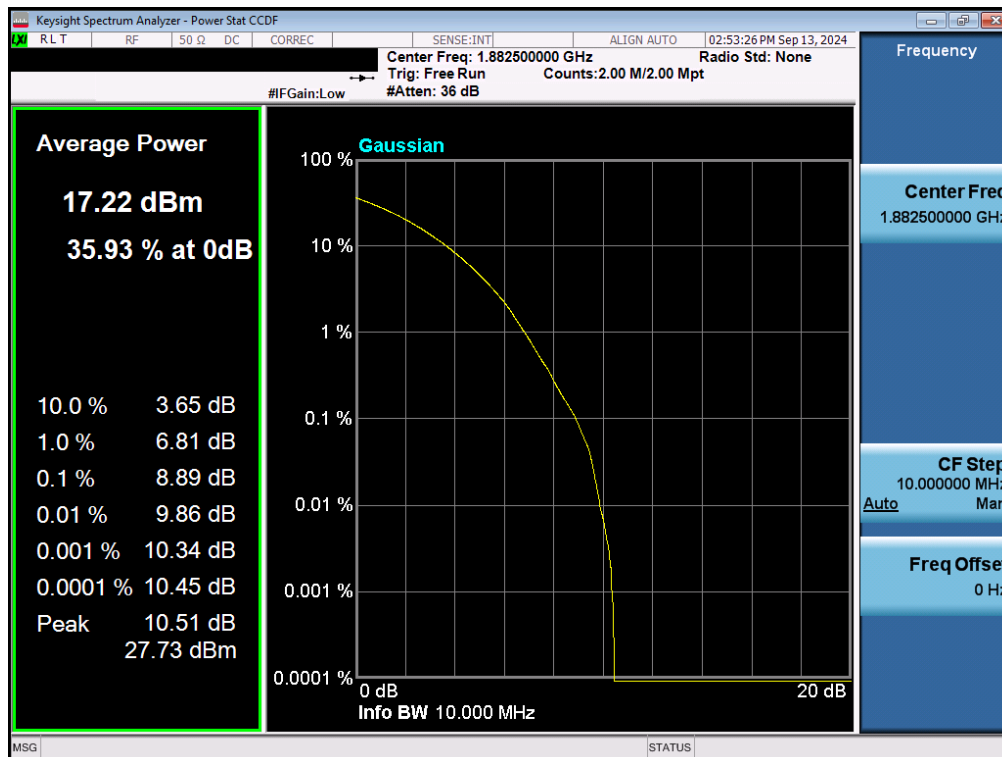


Plot 7-227. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

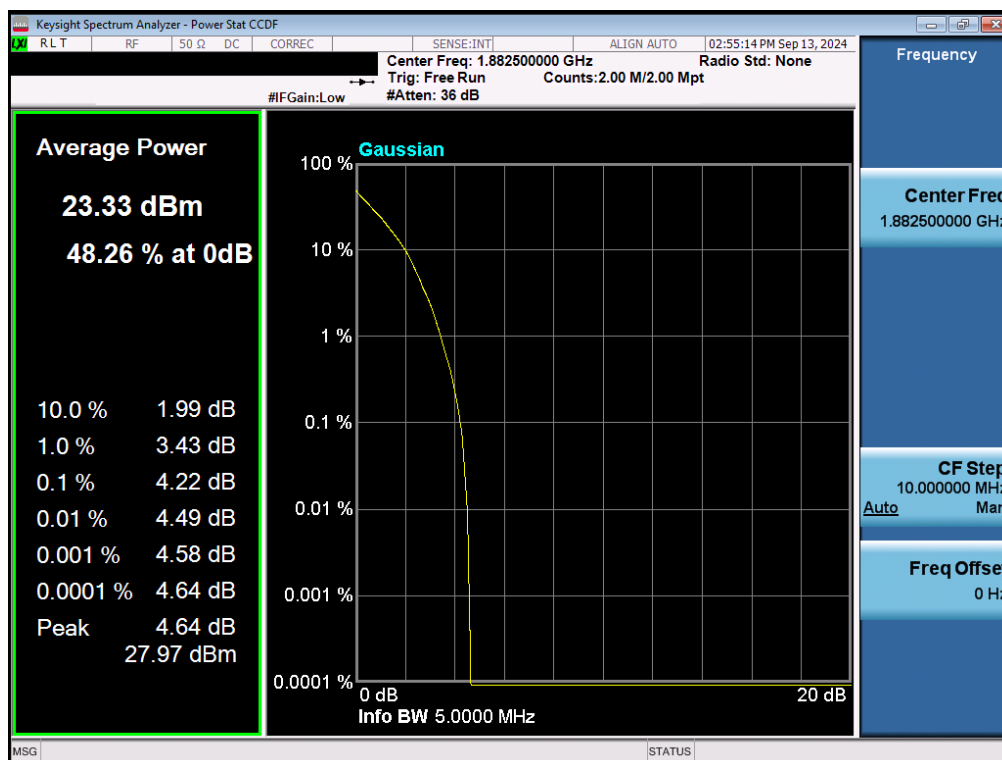


Plot 7-228. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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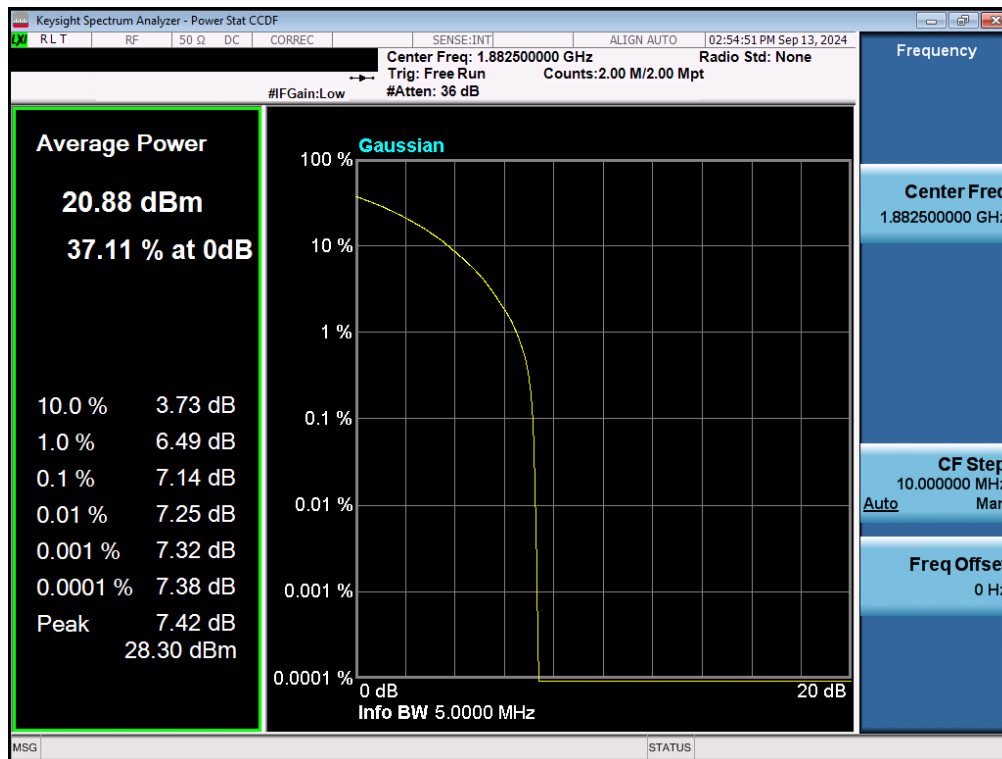


Plot 7-229. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

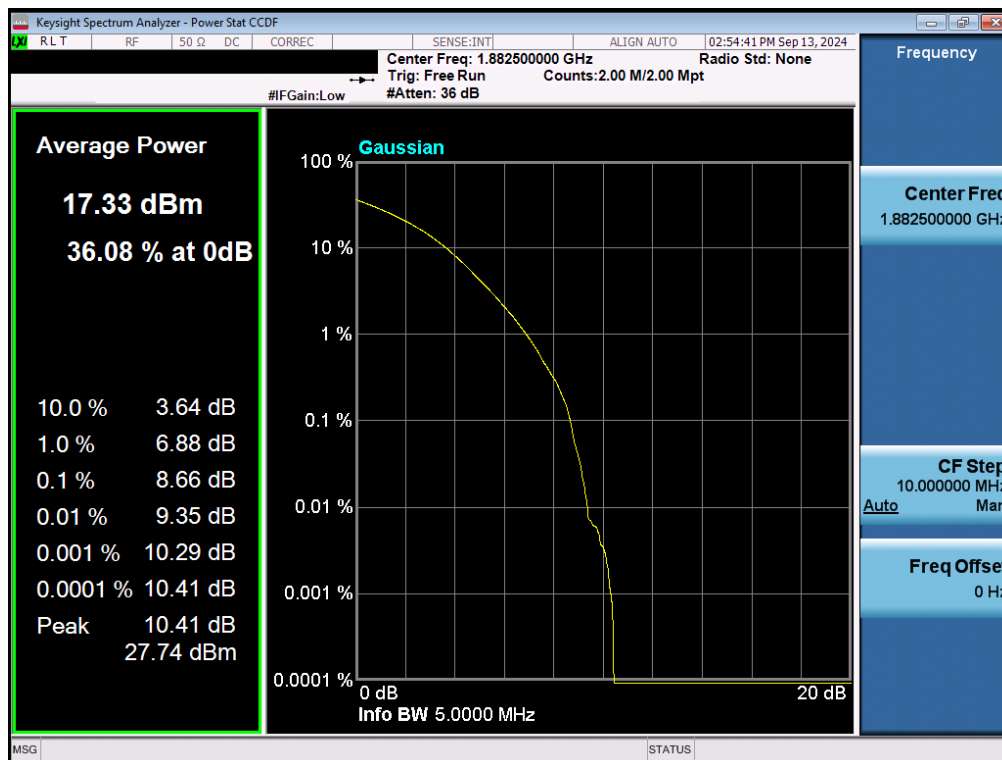


Plot 7-230. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-231. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT2)



Plot 7-232. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

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Test Setup

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

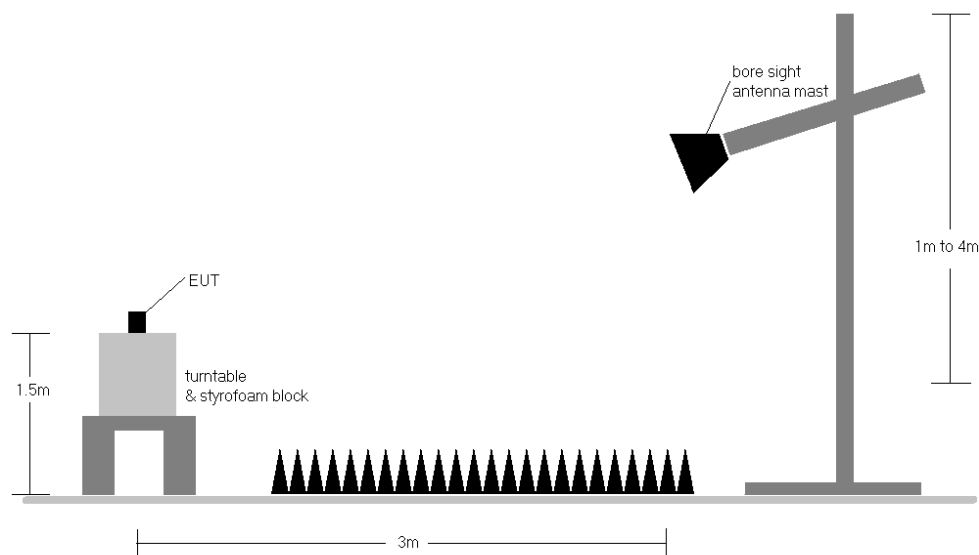


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GSM1900	V	172	201	23.23	2.62	25.85	0.385	33.01	-7.16
1880.00	GSM1900	V	162	186	22.74	2.34	25.08	0.322	33.01	-7.93
1909.80	GSM1900	V	182	199	24.77	2.22	26.99	0.500	33.01	-6.02
1909.80	GSM1900	H	186	253	18.42	2.55	20.97	0.125	33.01	-12.04
1909.80	EDGE1900	V	182	199	20.29	2.22	22.51	0.178	33.01	-10.50
1909.80	GSM1900 (WCP)	V	300	35	14.52	2.22	16.74	0.047	33.01	-16.27

Table 7-16. EIRP Data (GPRS PCS – Ant1)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	V	179	332	20.66	2.60	23.26	0.212	33.01	-9.75
1880.00	WCDMA1900	V	169	337	19.77	2.34	22.11	0.163	33.01	-10.90
1907.60	WCDMA1900	V	176	342	18.08	2.20	20.28	0.107	33.01	-12.73
1852.40	WCDMA1900	H	208	150	19.83	2.60	22.43	0.175	33.01	-10.58
1852.40	WCDMA1900 (WCP)	V	375	307	15.73	2.60	18.33	0.068	33.01	-14.68

Table 7-17. EIRP Data (WCDMA PCS – Ant1)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.00	V	217	327	2.53	1 / 99	20.14	22.67	0.185	33.01	-10.34
	QPSK	1882.50	V	211	329	2.32	1 / 0	19.71	22.03	0.159	33.01	-10.98
	QPSK	1905.00	V	217	329	2.19	1 / 0	18.77	20.96	0.125	33.01	-12.05
	16-QAM	1860.00	V	217	327	2.53	1 / 99	19.22	21.75	0.150	33.01	-11.26
15 MHz	QPSK	1857.50	V	217	327	2.55	1 / 37	19.88	22.43	0.175	33.01	-10.58
	QPSK	1882.50	V	211	329	2.32	1 / 37	19.48	21.80	0.151	33.01	-11.21
	QPSK	1907.50	V	217	329	2.20	1 / 0	18.71	20.91	0.123	33.01	-12.10
	16-QAM	1857.50	V	217	327	2.55	1 / 37	18.82	21.38	0.137	33.01	-11.63
10 MHz	QPSK	1855.00	V	217	327	2.58	1 / 0	19.79	22.37	0.173	33.01	-10.64
	QPSK	1882.50	V	211	329	2.32	1 / 25	19.44	21.76	0.150	33.01	-11.25
	QPSK	1910.00	V	217	329	2.22	1 / 0	18.42	20.64	0.116	33.01	-12.37
	16-QAM	1855.00	V	217	327	2.58	1 / 0	18.95	21.53	0.142	33.01	-11.48
5 MHz	QPSK	1852.50	V	217	327	2.60	1 / 0	19.86	22.47	0.176	33.01	-10.54
	QPSK	1882.50	V	211	329	2.32	1 / 24	19.55	21.86	0.154	33.01	-11.15
	QPSK	1912.50	V	217	329	2.24	1 / 0	18.62	20.86	0.122	33.01	-12.15
	16-QAM	1852.50	V	217	327	2.60	1 / 0	18.90	21.50	0.141	33.01	-11.51
3 MHz	QPSK	1851.50	V	217	327	2.61	1 / 14	19.93	22.54	0.179	33.01	-10.47
	QPSK	1882.50	V	211	329	2.32	1 / 7	19.72	22.03	0.160	33.01	-10.98
	QPSK	1913.50	V	217	329	2.25	1 / 7	18.72	20.97	0.125	33.01	-12.04
	16-QAM	1851.50	V	217	327	2.61	1 / 14	18.88	21.49	0.141	33.01	-11.52
1.4 MHz	QPSK	1850.70	V	217	327	2.62	1 / 0	19.87	22.49	0.177	33.01	-10.52
	QPSK	1882.50	V	211	329	2.32	1 / 0	19.49	21.80	0.151	33.01	-11.21
	QPSK	1914.30	V	217	329	2.25	1 / 0	18.50	20.75	0.119	33.01	-12.26
	16-QAM	1850.70	V	217	327	2.62	1 / 5	18.78	21.40	0.138	33.01	-11.61
20 MHz	Opposite Pol.	1860.00	H	198	156	2.79	1 / 50	19.40	22.19	0.166	33.01	-10.82
	WCP	1860.00	V	369	306	2.53	1 / 50	14.41	16.94	0.049	33.01	-16.07

Table 7-18. EIRP Data (LTE Band 25/2 – Ant1)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1870.00	V	143	208	2.43	1 / 108	21.11	23.54	0.226	33.01	-9.47
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 108	20.70	23.02	0.200	33.01	-9.99
	$\pi/2$ BPSK	1895.00	V	140	206	2.20	1 / 1	20.20	22.40	0.174	33.01	-10.61
	QPSK	1870.00	V	143	208	2.43	1 / 108	20.86	23.29	0.214	33.01	-9.72
	QPSK	1882.50	V	130	206	2.32	1 / 108	20.53	22.85	0.193	33.01	-10.16
	QPSK	1895.00	V	140	206	2.20	1 / 1	20.14	22.34	0.171	33.01	-10.67
35 MHz	16-QAM	1870.00	V	143	208	2.43	1 / 108	19.83	22.26	0.168	33.01	-10.75
	$\pi/2$ BPSK	1867.50	V	130	206	2.46	1 / 94	21.24	23.70	0.235	33.01	-9.31
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 94	20.65	22.96	0.198	33.01	-10.05
	$\pi/2$ BPSK	1897.50	V	130	206	2.17	1 / 94	20.17	22.35	0.172	33.01	-10.66
	QPSK	1867.50	V	130	206	2.46	1 / 94	21.26	23.72	0.235	33.01	-9.29
	QPSK	1882.50	V	130	206	2.32	1 / 94	20.90	23.22	0.210	33.01	-9.80
30 MHz	QPSK	1897.50	V	130	206	2.17	1 / 94	20.25	22.42	0.175	33.01	-10.59
	16-QAM	1882.50	V	130	206	2.32	1 / 94	20.47	22.79	0.190	33.01	-10.22
	$\pi/2$ BPSK	1865.00	V	143	208	2.48	1 / 1	21.31	23.79	0.239	33.01	-9.22
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 80	20.70	23.02	0.200	33.01	-9.99
	$\pi/2$ BPSK	1900.00	V	140	206	2.15	1 / 80	20.25	22.40	0.174	33.01	-10.61
	QPSK	1865.00	V	143	208	2.48	1 / 1	21.04	23.53	0.225	33.01	-9.48
25 MHz	QPSK	1882.50	V	130	206	2.32	1 / 80	20.76	23.07	0.203	33.01	-9.94
	QPSK	1900.00	V	140	206	2.15	1 / 80	20.12	22.28	0.169	33.01	-10.74
	16-QAM	1865.00	V	143	208	2.48	1 / 1	19.85	22.34	0.171	33.01	-10.67
	$\pi/2$ BPSK	1862.50	V	143	208	2.51	1 / 131	21.21	23.71	0.235	33.01	-9.30
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 66	20.88	23.19	0.209	33.01	-9.82
	$\pi/2$ BPSK	1902.50	V	140	206	2.17	1 / 1	20.38	22.54	0.180	33.01	-10.47
20 MHz	QPSK	1862.50	V	143	208	2.51	1 / 131	20.99	23.49	0.223	33.01	-9.52
	QPSK	1882.50	V	130	206	2.32	1 / 66	20.71	23.02	0.201	33.01	-9.99
	QPSK	1902.50	V	140	206	2.17	1 / 1	20.22	22.39	0.173	33.01	-10.62
	16-QAM	1862.50	V	143	208	2.51	1 / 131	20.25	22.76	0.189	33.01	-10.25
	$\pi/2$ BPSK	1860.00	V	143	208	2.53	1 / 1	21.09	23.62	0.230	33.01	-9.39
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 1	20.45	22.77	0.189	33.01	-10.24
15 MHz	$\pi/2$ BPSK	1905.00	V	140	206	2.19	1 / 1	19.73	21.91	0.155	33.01	-11.10
	QPSK	1860.00	V	143	208	2.53	1 / 1	21.07	23.61	0.229	33.01	-9.41
	QPSK	1882.50	V	130	206	2.32	1 / 1	20.63	22.95	0.197	33.01	-10.06
	QPSK	1905.00	V	140	206	2.19	1 / 1	20.02	22.20	0.166	33.01	-10.81
	16-QAM	1882.50	V	130	206	2.32	1 / 1	19.86	22.18	0.165	33.01	-10.83
	$\pi/2$ BPSK	1857.50	V	143	208	2.55	1 / 39	21.00	23.56	0.227	33.01	-9.45
10 MHz	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 1	20.64	22.95	0.197	33.01	-10.06
	$\pi/2$ BPSK	1907.50	V	140	206	2.20	1 / 1	19.62	21.82	0.152	33.01	-11.19
	QPSK	1857.50	V	143	208	2.55	1 / 39	21.04	23.59	0.229	33.01	-9.42
	QPSK	1882.50	V	130	206	2.32	1 / 1	20.75	23.07	0.203	33.01	-9.94
	QPSK	1907.50	V	140	206	2.20	1 / 1	19.63	21.84	0.153	33.01	-11.17
	16-QAM	1882.50	V	130	206	2.32	1 / 1	20.08	22.40	0.174	33.01	-10.61
5 MHz	$\pi/2$ BPSK	1855.00	V	143	208	2.58	1 / 26	20.92	23.50	0.224	33.01	-9.51
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 1	20.62	22.94	0.197	33.01	-10.07
	$\pi/2$ BPSK	1910.00	V	140	206	2.22	1 / 1	19.55	21.77	0.150	33.01	-11.24
	QPSK	1855.00	V	143	208	2.58	1 / 26	20.78	23.36	0.217	33.01	-9.65
	QPSK	1882.50	V	130	206	2.32	1 / 1	20.63	22.94	0.197	33.01	-10.07
	QPSK	1910.00	V	140	206	2.22	1 / 1	19.44	21.66	0.147	33.01	-11.35
40 MHz	16-QAM	1855.00	V	143	208	2.58	1 / 26	19.86	22.44	0.175	33.01	-10.57
	$\pi/2$ BPSK	1852.50	V	143	208	2.60	1 / 12	20.63	23.23	0.211	33.01	-9.78
	$\pi/2$ BPSK	1882.50	V	130	206	2.32	1 / 12	20.22	22.54	0.179	33.01	-10.47
	$\pi/2$ BPSK	1912.50	V	140	206	2.24	1 / 12	19.54	21.78	0.151	33.01	-11.23
	QPSK	1852.50	V	143	208	2.60	1 / 12	20.63	23.24	0.211	33.01	-9.77
	QPSK	1882.50	V	130	206	2.32	1 / 12	20.30	22.61	0.183	33.01	-10.40
40 MHz	QPSK	1912.50	V	140	206	2.24	1 / 12	18.66	20.90	0.123	33.01	-12.11
	16-QAM	1852.50	V	143	208	2.60	1 / 12	19.47	22.07	0.161	33.01	-10.94
	QPSK (CP-OFDM)	1870.00	V	137	206	2.32	1 / 108	19.38	21.70	0.148	33.01	-11.31
40 MHz	QPSK (Opposite Pol.)	1870.00	H	159	162	2.73	1 / 1	19.82	22.55	0.180	33.01	-10.46
	QPSK (WCP)	1870.00	V	319	322	2.32	1 / 1	14.48	16.80	0.048	33.01	-16.21

Table 7-19. EIRP Data (NR Band n25/2 – Ant1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-02-R1.A3L	Test Dates: 09/06 - 10/17/2024	EUT Type: Portable Handset	Page 151 of 174

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.00	H	165	300	2.79	1 / 50	17.19	19.98	0.100	33.01	-13.03
	QPSK	1882.50	H	155	300	2.65	1 / 99	17.61	20.26	0.106	33.01	-12.75
	QPSK	1905.00	H	162	295	2.54	1 / 50	17.74	20.28	0.107	33.01	-12.73
	16-QAM	1905.00	H	162	295	2.54	1 / 50	16.97	19.51	0.089	33.01	-13.50
15 MHz	QPSK	1857.50	H	165	300	2.81	1 / 74	17.09	19.90	0.098	33.01	-13.11
	QPSK	1882.50	H	155	300	2.65	1 / 74	17.68	20.33	0.108	33.01	-12.68
	QPSK	1907.50	H	162	295	2.54	1 / 37	17.82	20.37	0.109	33.01	-12.64
	16-QAM	1907.50	H	162	295	2.54	1 / 74	17.05	19.59	0.091	33.01	-13.42
10 MHz	QPSK	1855.00	H	165	300	2.82	1 / 25	17.19	20.01	0.100	33.01	-13.00
	QPSK	1882.50	H	155	300	2.65	1 / 0	17.45	20.10	0.102	33.01	-12.91
	QPSK	1910.00	H	162	295	2.55	1 / 0	17.71	20.25	0.106	33.01	-12.76
	16-QAM	1882.50	H	155	300	2.65	1 / 49	16.96	19.61	0.091	33.01	-13.40
5 MHz	QPSK	1852.50	H	165	300	2.84	1 / 12	17.23	20.07	0.102	33.01	-12.94
	QPSK	1882.50	H	155	300	2.65	1 / 12	17.70	20.35	0.108	33.01	-12.66
	QPSK	1912.50	H	162	295	2.55	1 / 12	17.78	20.33	0.108	33.01	-12.68
	16-QAM	1912.50	H	162	295	2.55	1 / 24	17.22	19.76	0.095	33.01	-13.25
3 MHz	QPSK	1851.50	H	165	300	2.85	1 / 7	17.00	19.85	0.096	33.01	-13.17
	QPSK	1882.50	H	155	300	2.65	1 / 14	17.50	20.15	0.103	33.01	-12.86
	QPSK	1913.50	H	162	295	2.55	1 / 7	17.59	20.14	0.103	33.01	-12.87
	16-QAM	1913.50	H	162	295	2.55	1 / 7	17.03	19.58	0.091	33.01	-13.43
1.4 MHz	QPSK	1850.70	H	165	300	2.85	1 / 3	16.97	19.82	0.096	33.01	-13.19
	QPSK	1882.50	H	155	300	2.65	1 / 0	17.49	20.14	0.103	33.01	-12.87
	QPSK	1914.30	H	162	295	2.55	1 / 0	17.48	20.03	0.101	33.01	-12.98
	16-QAM	1914.30	H	162	295	2.55	1 / 0	17.04	19.59	0.091	33.01	-13.42
20 MHz	Opposite Pol.	1905.00	V	185	297	2.19	1 / 99	17.77	19.96	0.099	33.01	-13.05
	WCP	1905.00	H	146	301	2.54	1 / 50	17.44	19.98	0.100	33.01	-13.03

Table 7-20. EIRP Data (LTE Band 25/2 – Ant2)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1870.00	H	163	303	2.73	1 / 214	16.49	19.22	0.084	33.01	-13.79
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 214	16.90	19.55	0.090	33.01	-13.46
	$\pi/2$ BPSK	1895.00	H	156	300	2.57	1 / 108	16.94	19.51	0.089	33.01	-13.50
	QPSK	1870.00	H	163	303	2.73	1 / 214	16.58	19.31	0.085	33.01	-13.70
	QPSK	1882.50	H	156	299	2.65	1 / 214	17.01	19.66	0.092	33.01	-13.35
	QPSK	1895.00	H	156	300	2.57	1 / 108	16.82	19.39	0.087	33.01	-13.62
35 MHz	16-QAM	1882.50	H	156	299	2.65	1 / 214	15.89	18.54	0.071	33.01	-14.47
	$\pi/2$ BPSK	1867.50	H	163	303	2.74	1 / 186	16.37	19.11	0.081	33.01	-13.90
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 94	16.96	19.61	0.091	33.01	-13.40
	$\pi/2$ BPSK	1897.50	H	156	300	2.56	1 / 1	17.06	19.61	0.091	33.01	-13.40
	QPSK	1867.50	H	163	303	2.74	1 / 186	16.31	19.05	0.080	33.01	-13.96
	QPSK	1882.50	H	156	299	2.65	1 / 94	17.02	19.67	0.093	33.01	-13.34
30 MHz	QPSK	1897.50	H	156	300	2.56	1 / 1	17.06	19.62	0.092	33.01	-13.39
	16-QAM	1897.50	H	156	300	2.56	1 / 1	16.22	18.77	0.075	33.01	-14.24
	$\pi/2$ BPSK	1865.00	H	163	303	2.76	1 / 158	16.44	19.20	0.083	33.01	-13.81
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 1	16.94	19.59	0.091	33.01	-13.42
	$\pi/2$ BPSK	1900.00	H	156	300	2.54	1 / 158	17.06	19.60	0.091	33.01	-13.41
	QPSK	1865.00	H	163	303	2.76	1 / 158	16.72	19.48	0.089	33.01	-13.53
25 MHz	QPSK	1882.50	H	156	299	2.65	1 / 1	17.04	19.69	0.093	33.01	-13.32
	QPSK	1900.00	H	156	300	2.54	1 / 158	16.98	19.52	0.090	33.01	-13.49
	16-QAM	1882.50	H	156	299	2.65	1 / 1	16.21	18.86	0.077	33.01	-14.15
	$\pi/2$ BPSK	1862.50	H	163	303	2.78	1 / 1	16.56	19.33	0.086	33.01	-13.68
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 131	17.02	19.67	0.093	33.01	-13.34
	$\pi/2$ BPSK	1902.50	H	156	300	2.54	1 / 66	17.15	19.69	0.093	33.01	-13.32
20 MHz	QPSK	1862.50	H	163	303	2.78	1 / 1	16.61	19.38	0.087	33.01	-13.63
	QPSK	1882.50	H	156	299	2.65	1 / 131	17.14	19.79	0.095	33.01	-13.22
	QPSK	1902.50	H	156	300	2.54	1 / 66	16.98	19.52	0.090	33.01	-13.49
	16-QAM	1882.50	H	156	299	2.65	1 / 131	16.12	18.77	0.075	33.01	-14.24
	$\pi/2$ BPSK	1860.00	H	163	303	2.79	1 / 104	16.30	19.09	0.081	33.01	-13.92
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 53	16.89	19.54	0.090	33.01	-13.47
15 MHz	$\pi/2$ BPSK	1905.00	H	156	300	2.54	1 / 53	17.15	19.69	0.093	33.01	-13.32
	QPSK	1860.00	H	163	303	2.79	1 / 104	16.29	19.08	0.081	33.01	-13.93
	QPSK	1882.50	H	156	299	2.65	1 / 53	16.74	19.39	0.087	33.01	-13.62
	QPSK	1905.00	H	156	300	2.54	1 / 53	16.87	19.41	0.087	33.01	-13.60
	16-QAM	1905.00	H	156	300	2.54	1 / 53	16.07	18.61	0.073	33.01	-14.40
	$\pi/2$ BPSK	1857.50	H	163	303	2.81	1 / 1	16.50	19.31	0.085	33.01	-13.70
10 MHz	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 39	16.99	19.64	0.092	33.01	-13.37
	$\pi/2$ BPSK	1907.50	H	156	300	2.54	1 / 1	17.07	19.62	0.092	33.01	-13.39
	QPSK	1857.50	H	163	303	2.81	1 / 1	16.35	19.16	0.082	33.01	-13.85
	QPSK	1882.50	H	156	299	2.65	1 / 39	17.09	19.74	0.094	33.01	-13.27
	QPSK	1907.50	H	156	300	2.54	1 / 1	16.99	19.53	0.090	33.01	-13.48
	16-QAM	1882.50	H	156	299	2.65	1 / 39	16.12	18.77	0.075	33.01	-14.24
5 MHz	$\pi/2$ BPSK	1855.00	H	163	303	2.82	1 / 1	16.46	19.29	0.085	33.01	-13.72
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 50	17.05	19.70	0.093	33.01	-13.31
	$\pi/2$ BPSK	1910.00	H	156	300	2.55	1 / 26	17.03	19.58	0.091	33.01	-13.43
	QPSK	1855.00	H	163	303	2.82	1 / 1	16.37	19.20	0.083	33.01	-13.81
	QPSK	1882.50	H	156	299	2.65	1 / 50	17.27	19.92	0.098	33.01	-13.09
	QPSK	1910.00	H	156	300	2.55	1 / 26	16.87	19.42	0.087	33.01	-13.59
40 MHz	16-QAM	1882.50	H	156	299	2.65	1 / 50	16.11	18.76	0.075	33.01	-14.25
	$\pi/2$ BPSK	1852.50	H	163	303	2.84	1 / 23	16.49	19.33	0.086	33.01	-13.68
	$\pi/2$ BPSK	1882.50	H	156	299	2.65	1 / 23	17.01	19.66	0.092	33.01	-13.35
	$\pi/2$ BPSK	1912.50	H	156	300	2.55	1 / 23	17.04	19.59	0.091	33.01	-13.42
	QPSK	1852.50	H	163	303	2.84	1 / 23	16.19	19.03	0.080	33.01	-13.98
	QPSK	1882.50	H	156	299	2.65	1 / 23	17.15	19.80	0.095	33.01	-13.21
40 MHz	QPSK	1912.50	H	156	300	2.55	1 / 23	16.78	19.33	0.086	33.01	-13.68
	16-QAM	1882.50	H	156	299	2.65	1 / 23	16.19	18.84	0.077	33.01	-14.17
	QPSK (CP-OFDM)	1882.50	H	156	304	2.65	1 / 214	15.12	17.77	0.060	33.01	-15.24
40 MHz	QPSK (Opposite Pol.)	1882.50	V	137	315	2.65	1 / 214	17.19	19.84	0.096	33.01	-13.17
	QPSK (WCP)	1882.50	H	153	307	2.65	1 / 1	16.16	18.81	0.076	33.01	-14.20

Table 7-21. EIRP Data (NR Band n25/2 – Ant2)

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7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

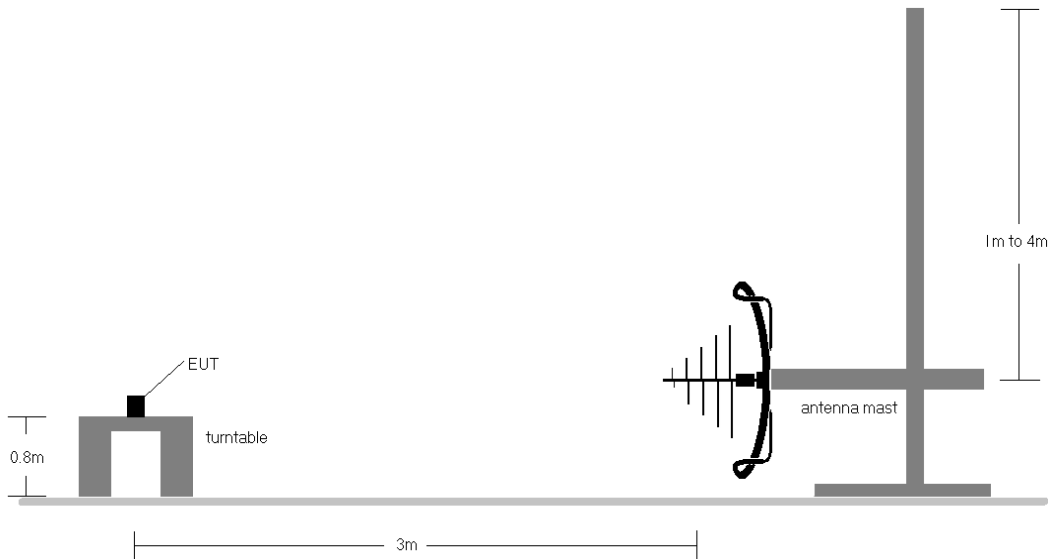


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

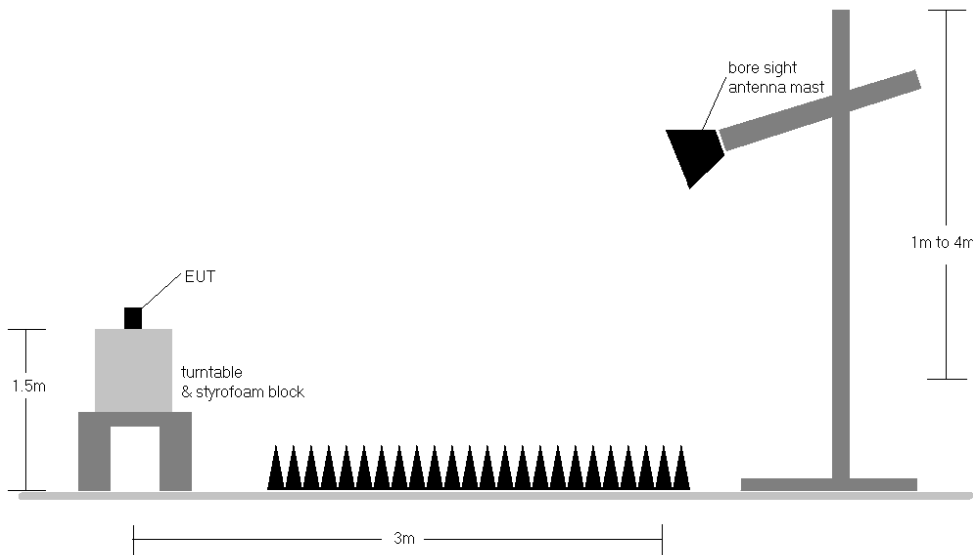


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

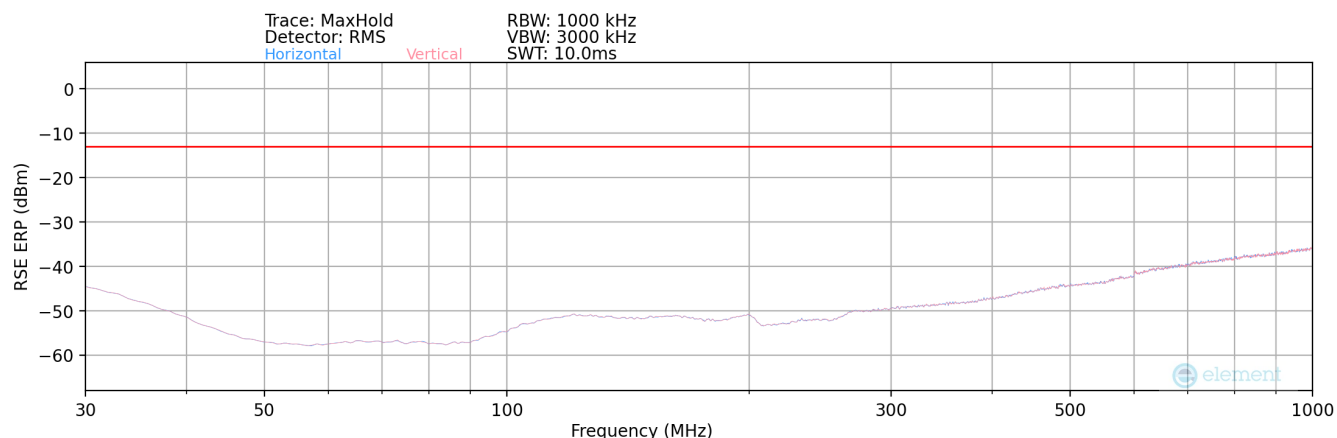
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Test Notes

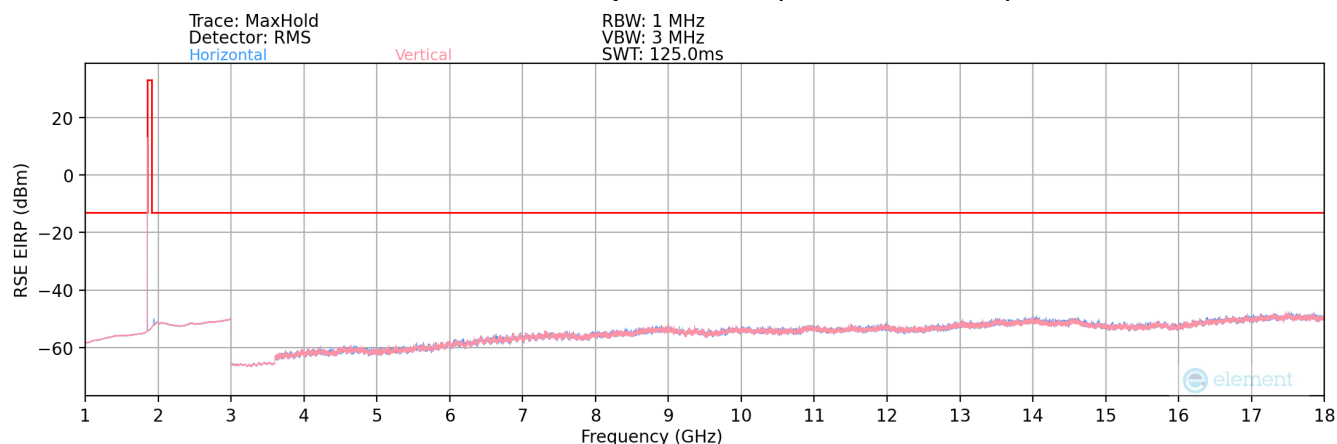
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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GSM/GPRS PCS – Ant1



Plot 7-233. Radiated Spurious Plot (GPRS PCS - Ant1)



Plot 7-234. Radiated Spurious Plot (GPRS PCS - Ant1)

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
62.43	V	-	-	-81.89	14.61	39.72	-57.69	-13.00	-44.69
132.52	V	-	-	-82.45	20.22	44.77	-52.64	-13.00	-39.64
209.12	V	-	-	-81.36	17.70	43.34	-54.07	-13.00	-41.07

Table 7-22. Radiated Spurious Data (GPRS PCS – Mid Channel - Ant1)

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Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.40	VX	-	-	-77.12	1.11	30.99	-64.27	-13.00	-51.27
5550.60	VX	-	-	-77.16	4.42	34.26	-61.00	-13.00	-48.00
7400.80	VX	-	-	-77.96	9.39	38.43	-56.83	-13.00	-43.83

Table 7-23. Radiated Spurious Data (GPRS PCS – Low Channel - Ant1)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.00	VX	-	-	-76.77	1.02	31.25	-64.01	-13.00	-51.01
5640.00	VX	-	-	-77.34	4.63	34.29	-60.97	-13.00	-47.97
7520.00	VX	-	-	-78.52	9.27	37.75	-57.50	-13.00	-44.50

Table 7-24. Radiated Spurious Data (GPRS PCS – Mid Channel - Ant1)

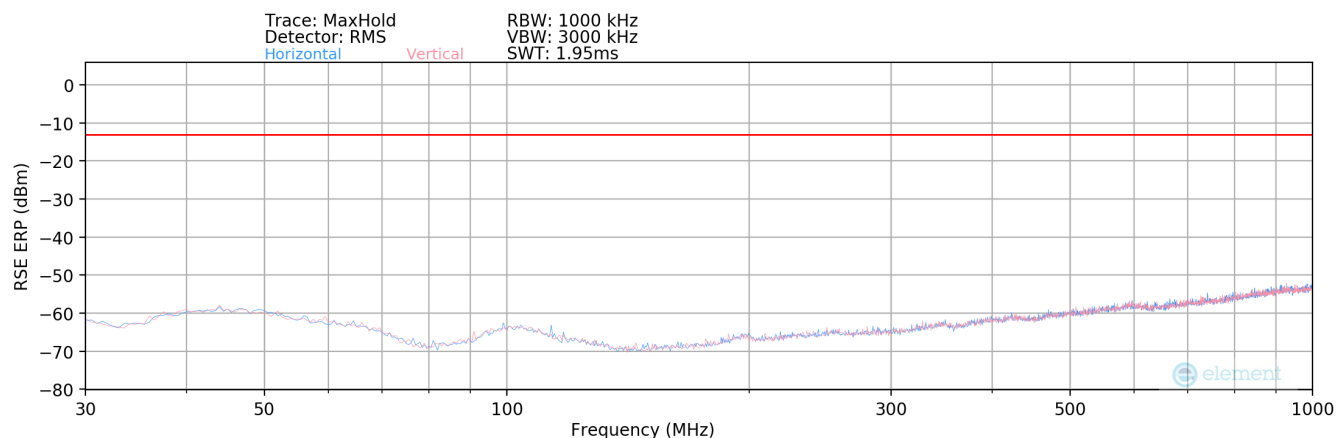
Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.60	VX	-	-	-76.52	1.09	31.57	-63.69	-13.00	-50.69
5729.40	VX	-	-	-77.50	4.75	34.25	-61.01	-13.00	-48.01
7639.20	VX	-	-	-78.86	9.33	37.47	-57.78	-13.00	-44.78

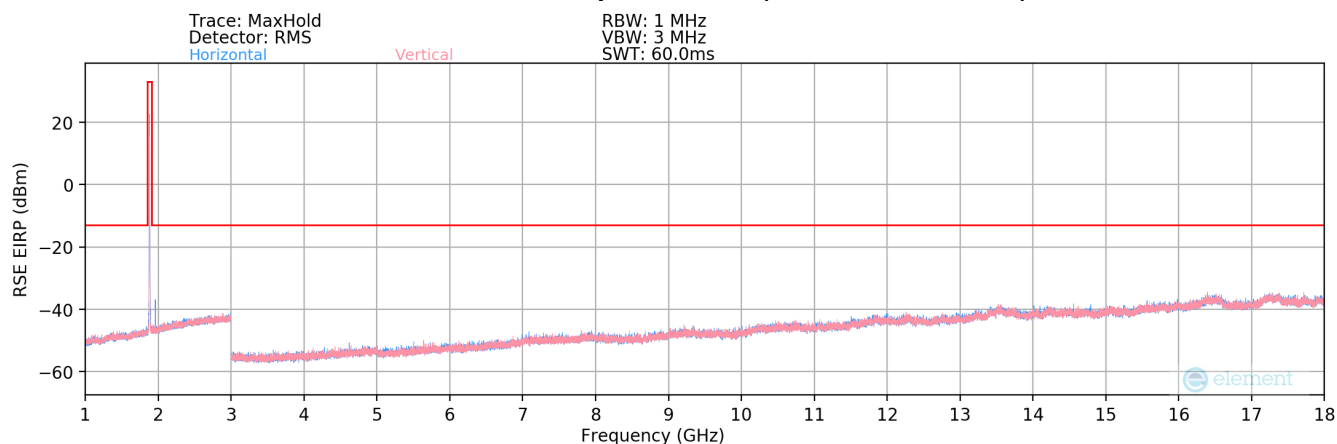
Table 7-25. Radiated Spurious Data (GPRS PCS – High Channel - Ant1)

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WCDMA PCS – Ant1



Plot 7-235. Radiated Spurious Plot (WCDMA PCS - Ant1)



Plot 7-236. Radiated Spurious Plot (WCDMA PCS - Ant1)

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.80	V	-	-	-78.20	7.71	36.51	-58.75	-13.00	-45.75
5557.20	V	-	-	-77.73	11.42	40.69	-54.57	-13.00	-41.57
7409.60	V	-	-	-79.01	15.03	43.02	-52.24	-13.00	-39.24

Table 7-26. Radiated Spurious Data (WCDMA PCS – Low Channel - Ant1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.00	V	-	-	-78.16	7.92	36.76	-58.50	-13.00	-45.50
5640.00	V	-	-	-78.83	11.47	39.64	-55.62	-13.00	-42.62
7520.00	V	-	-	-79.36	15.64	43.28	-51.98	-13.00	-38.98

Table 7-27. Radiated Spurious Data (WCDMA PCS – Mid Channel - Ant1)

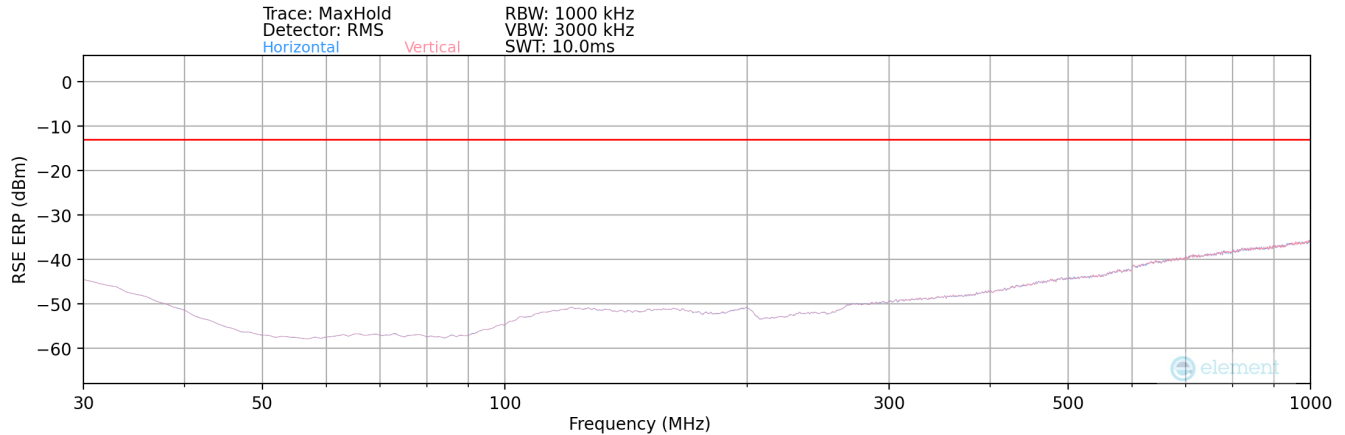
Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.20	V	-	-	-78.06	7.99	36.93	-58.32	-13.00	-45.32
5722.80	V	-	-	-78.79	11.54	39.75	-55.51	-13.00	-42.51
7630.40	V	-	-	-80.60	15.70	42.10	-53.16	-13.00	-40.16

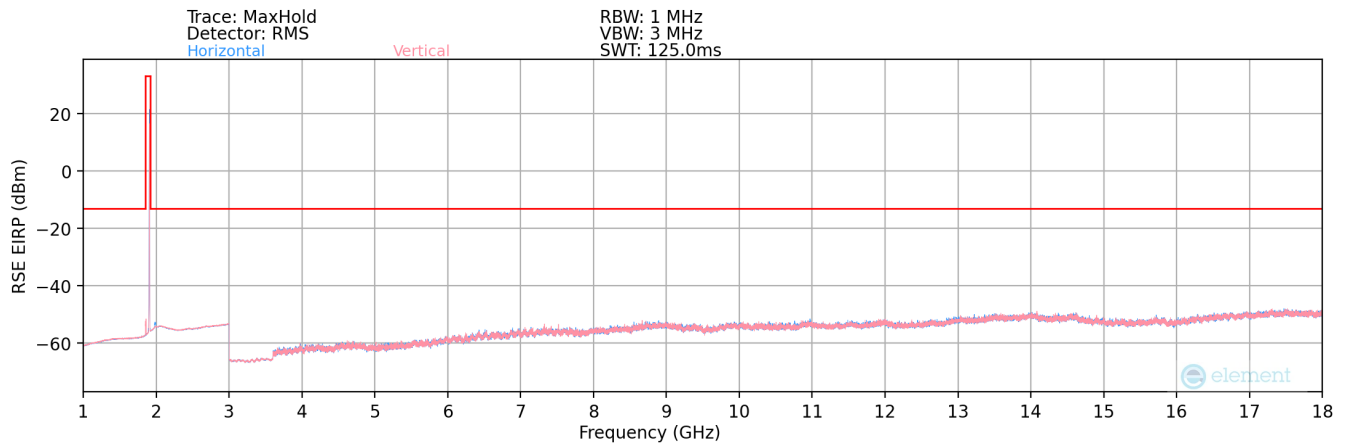
Table 7-28. Radiated Spurious Data (WCDMA PCS – High Channel - Ant1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2 – Ant1



Plot 7-237. Radiated Spurious Plot (LTE Band 25/2 - Ant1)



Plot 7-238. Radiated Spurious Plot (LTE Band 25/2 - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
149.20	H	396	20	-80.41	-17.06	9.53	-87.87	-13.00	-74.87

Table 7-29. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	H	-	-	-79.00	7.65	35.65	-59.61	-13.00	-46.61
5580.00	H	-	-	-79.59	11.46	38.87	-56.39	-13.00	-43.39
7440.00	H	-	-	-80.93	15.33	41.40	-53.86	-13.00	-40.86

Table 7-30. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	H	-	-	-79.15	8.01	35.86	-59.39	-13.00	-46.39
5647.50	H	-	-	-79.58	11.43	38.85	-56.41	-13.00	-43.41
7530.00	H	-	-	-80.86	15.54	41.68	-53.58	-13.00	-40.58

Table 7-31. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	-	-	-79.14	8.09	35.95	-59.30	-13.00	-46.30
5715.00	H	-	-	-79.84	11.32	38.48	-56.78	-13.00	-43.78
7620.00	H	-	-	-80.45	15.76	42.31	-52.95	-13.00	-39.95

Table 7-32. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant1)

FCC ID: A3LSMS938U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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