

NR Band n5 – Ant1



Plot 7-77. Lower Band Edge Plot (NR Band n5 – 5MHz - Full RB – Ant1)



Plot 7-78. Upper Band Edge Plot (NR Band n5 – 5MHz - Full RB – Ant1)

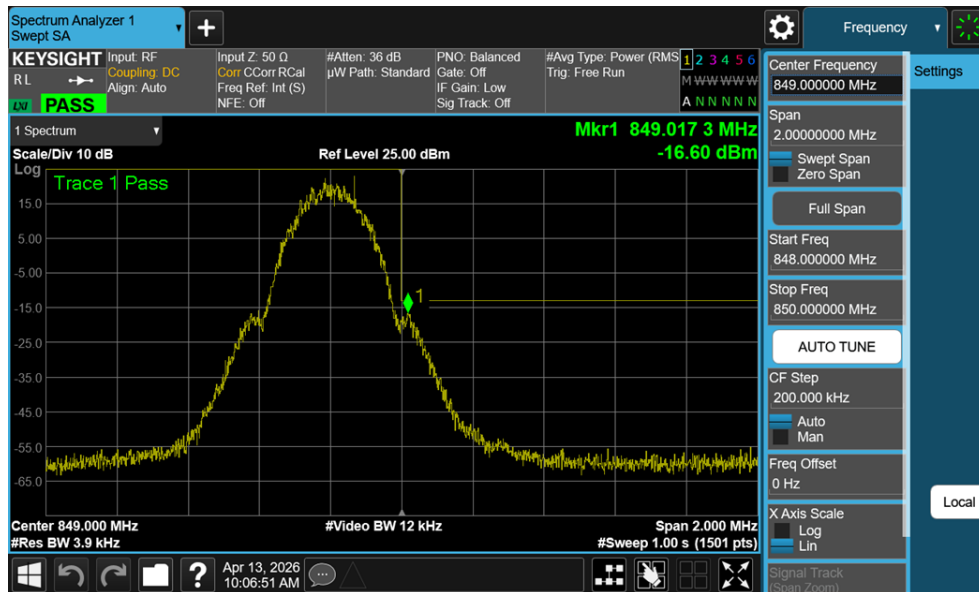
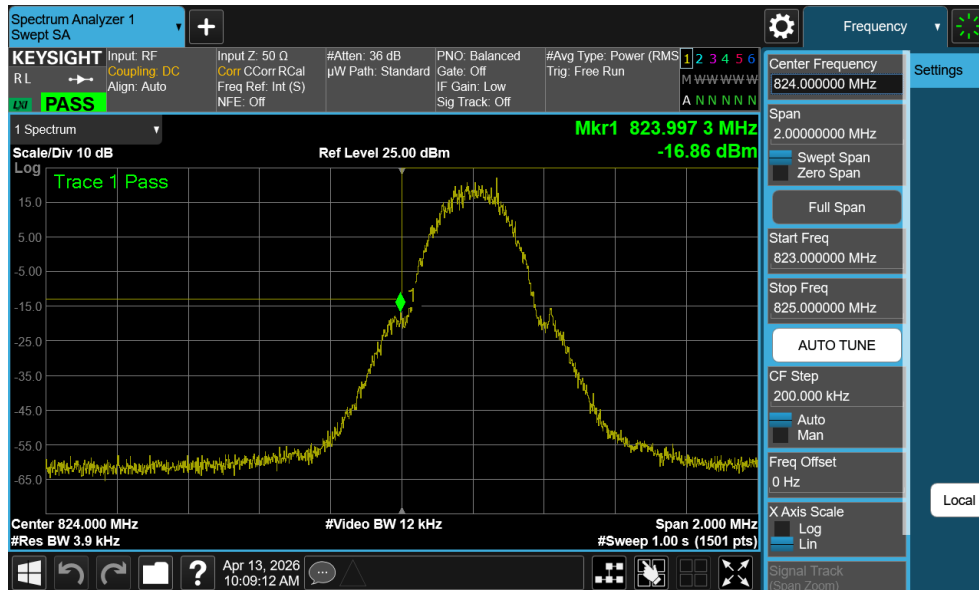
FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 69 of 137

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-Cell	250kHz	Low	Band Edge	-16.86	-13.0	-3.86
		High	Band Edge	-16.60	-13.0	-3.60
WCDMA-Cell	5MHz	Low	Band Edge	-19.21	-13.0	-6.21
		High	Band Edge	-15.37	-13.0	-2.37
LTE-B5	10MHz	Low	Band Edge	-28.31	-13.0	-15.31
		High	Band Edge	-29.99	-13.0	-16.99
	5MHz	Low	Band Edge	-22.26	-13.0	-9.26
		High	Band Edge	-22.04	-13.0	-9.04
	3MHz	Low	Band Edge	-17.07	-13.0	-4.07
		High	Band Edge	-19.21	-13.0	-6.21
	1.4MHz	Low	Band Edge	-17.50	-13.0	-4.50
		High	Band Edge	-17.45	-13.0	-4.45
NR-n5	20MHz	Low	Band Edge	-31.99	-13.0	-18.99
		High	Band Edge	-31.24	-13.0	-18.23
	15MHz	Low	Band Edge	-29.15	-13.0	-16.15
		High	Band Edge	-29.94	-13.0	-16.94
	10MHz	Low	Band Edge	-26.95	-13.0	-13.95
		High	Band Edge	-28.04	-13.0	-15.04
	5MHz	Low	Band Edge	-21.79	-13.0	-8.79
		High	Band Edge	-21.16	-13.0	-8.16

Table 7-13. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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GSM/GPRS Cell – Ant2



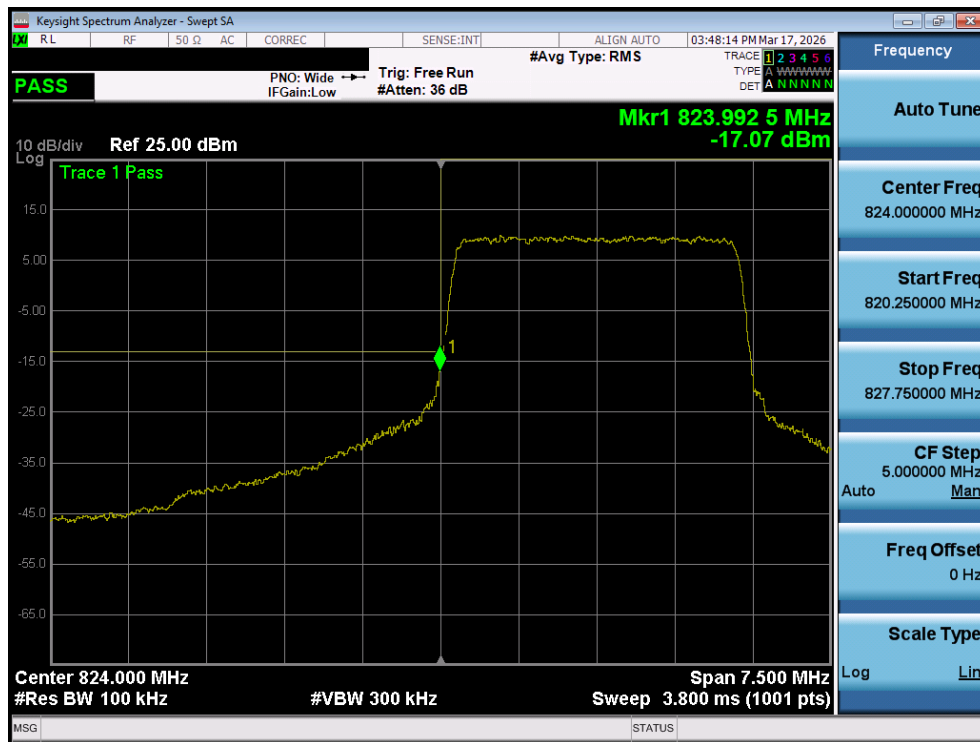
FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 71 of 137

WCDMA Cell – Ant2



FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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LTE Band 5 – Ant2



Plot 7-83. Lower Band Edge Plot (LTE Band 5 – 3MHz QPSK - Full RB – Ant2)



Plot 7-84. Upper Band Edge Plot (LTE Band 5 – 3MHz QPSK - Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 73 of 137

NR Band n5 – Ant2



Plot 7-85. Lower Band Edge Plot (NR Band n5 – 5MHz - Full RB – Ant2)



Plot 7-86. Upper Band Edge Plot (NR Band n5 – 5MHz - Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 74 of 137

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.

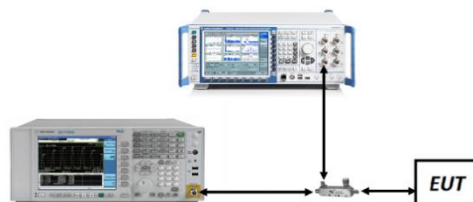


Figure 7-5. Test Instrument & Measurement Setup

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.

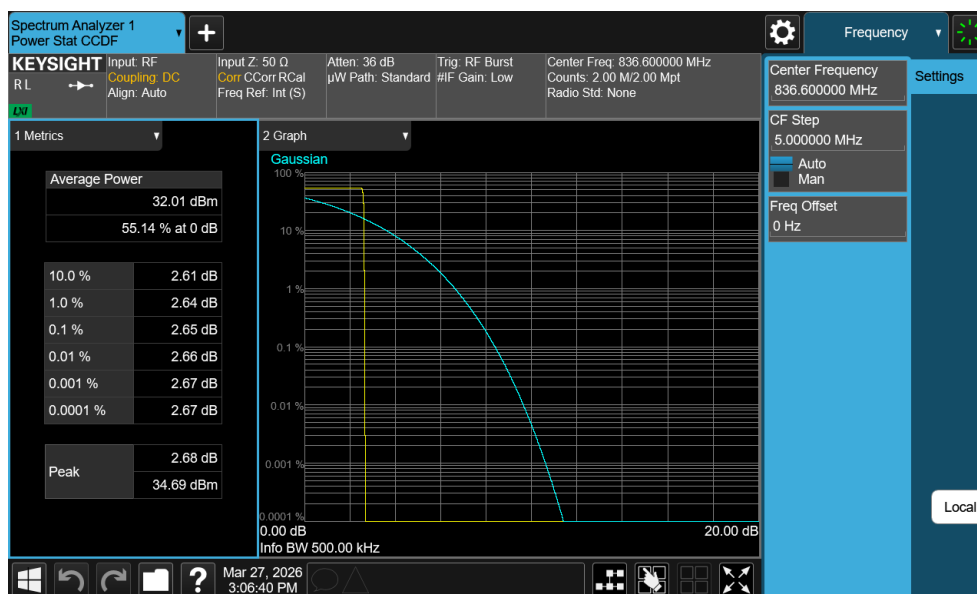
FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM-Cell	N/A	GMSK	32.01	2.65	13.0	-10.35
GSM-Cell Edge		8-PSK	26.38	2.73	13.0	-10.27
WCDMA		Spread Spectrum	24.93	2.67	13.0	-10.33
LTE-B5	10 MHz	QPSK	21.97	5.03	13.0	-7.97
		256QAM	18.64	6.62	13.0	-6.38
	5 MHz	QPSK	22.54	4.44	13.0	-8.56
		256QAM	18.58	6.66	13.0	-6.34
	3 MHz	QPSK	22.54	4.48	13.0	-8.52
		256QAM	18.59	6.68	13.0	-6.32
	1.4 MHz	QPSK	22.53	5.29	13.0	-7.71
		256QAM	18.57	6.68	13.0	-6.32
NR-n5	20 MHz	$\pi/2$ BPSK	23.20	3.84	13.0	-9.16
		QPSK	20.63	6.60	13.0	-6.40
		256QAM	16.97	8.40	13.0	-4.60
	15 MHz	$\pi/2$ BPSK	22.94	4.06	13.0	-8.94
		QPSK	20.51	6.57	13.0	-6.43
		256QAM	17.00	8.43	13.0	-4.57
	10 MHz	$\pi/2$ BPSK	23.08	3.91	13.0	-9.09
		QPSK	20.51	6.67	13.0	-6.33
		256QAM	17.05	8.43	13.0	-4.57
	5 MHz	$\pi/2$ BPSK	23.11	4.10	13.0	-8.90
		QPSK	20.59	6.63	13.0	-6.37
		256QAM	17.02	8.42	13.0	-4.58

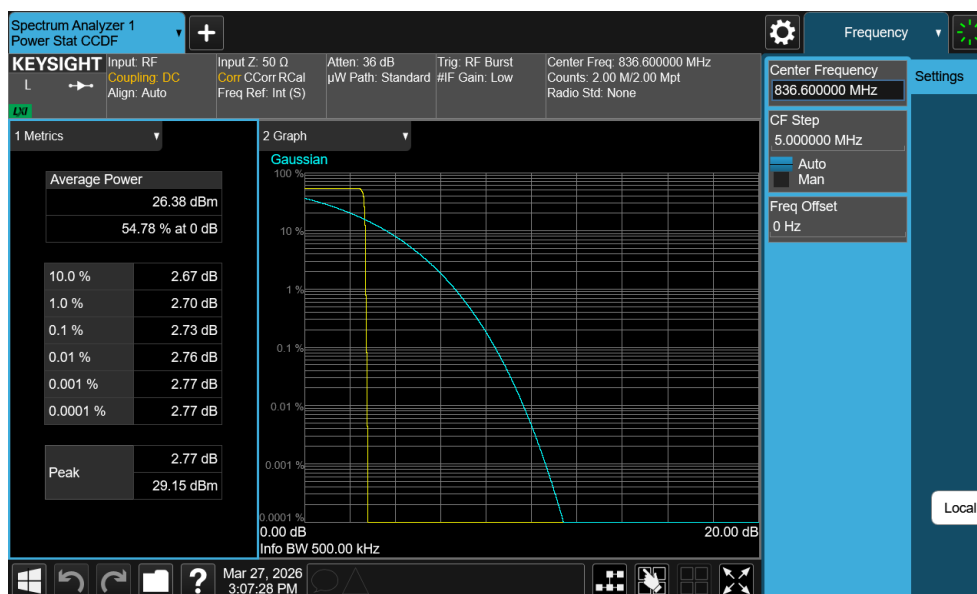
Table 7-14. Peak-Average Ratio Results – Ant1

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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GPRS Cell – Ant1



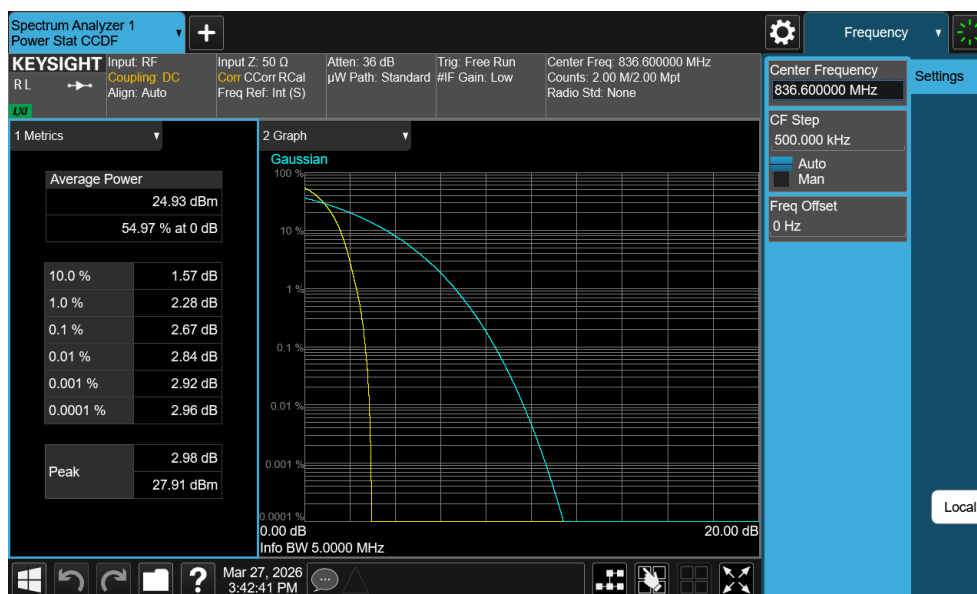
Plot 7-87. PAR Plot (GPRS, Ch. 190 – Ant1)



Plot 7-88. PAR Plot (EDGE, Ch. 190 – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 77 of 137

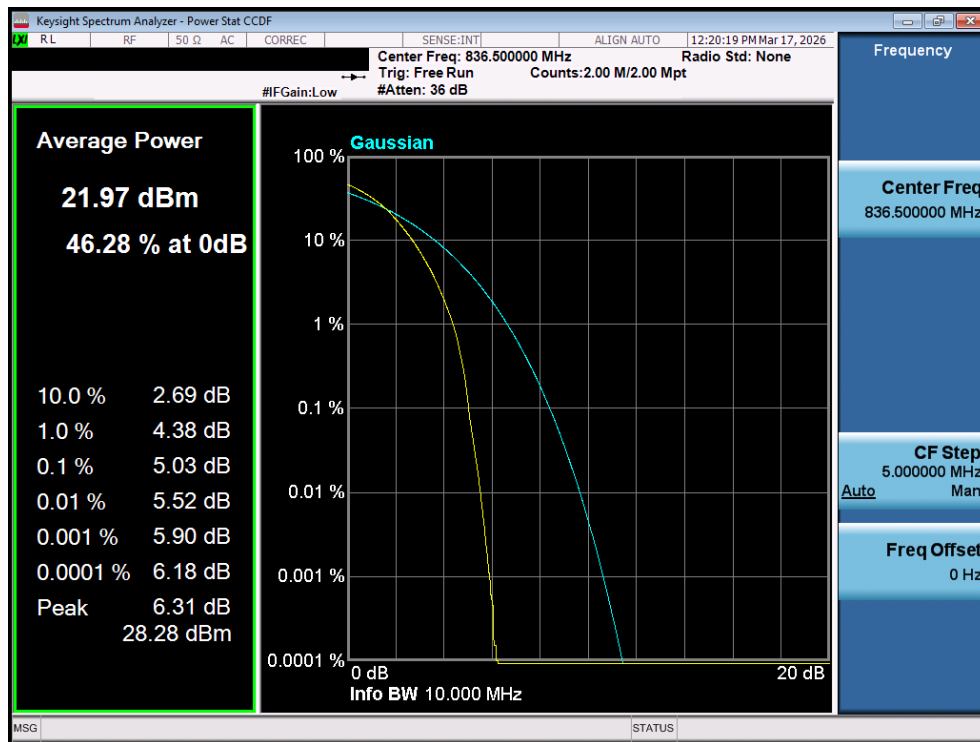
WCDMA Cell – Ant1



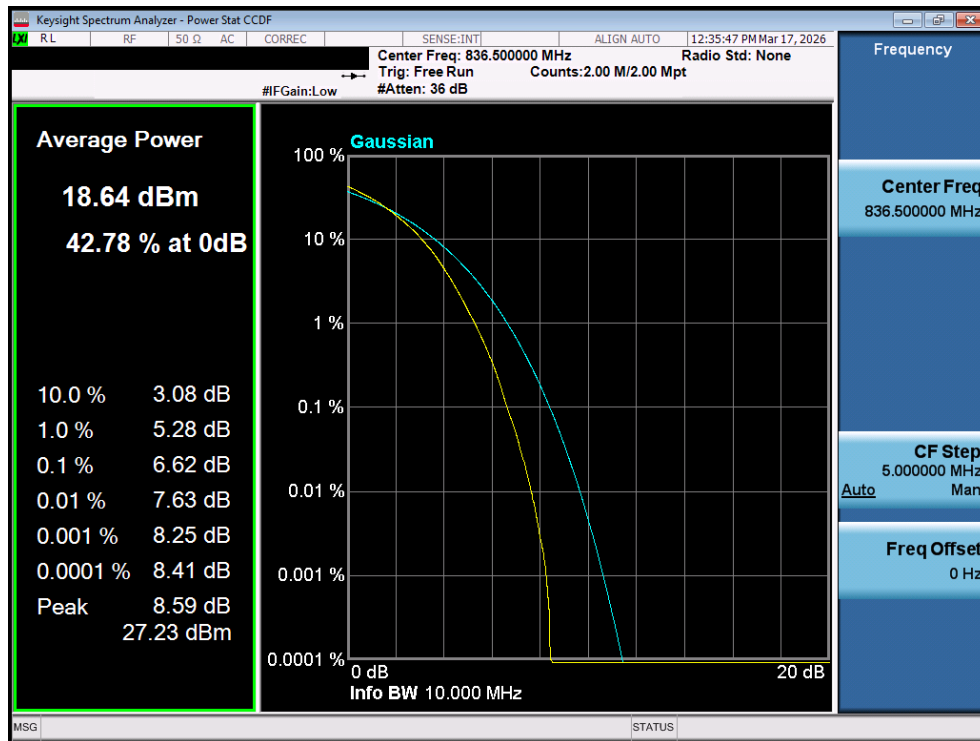
Plot 7-89. PAR Plot (WCDMA, Ch. 4183 - Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 78 of 137

LTE Band 5 – Ant1

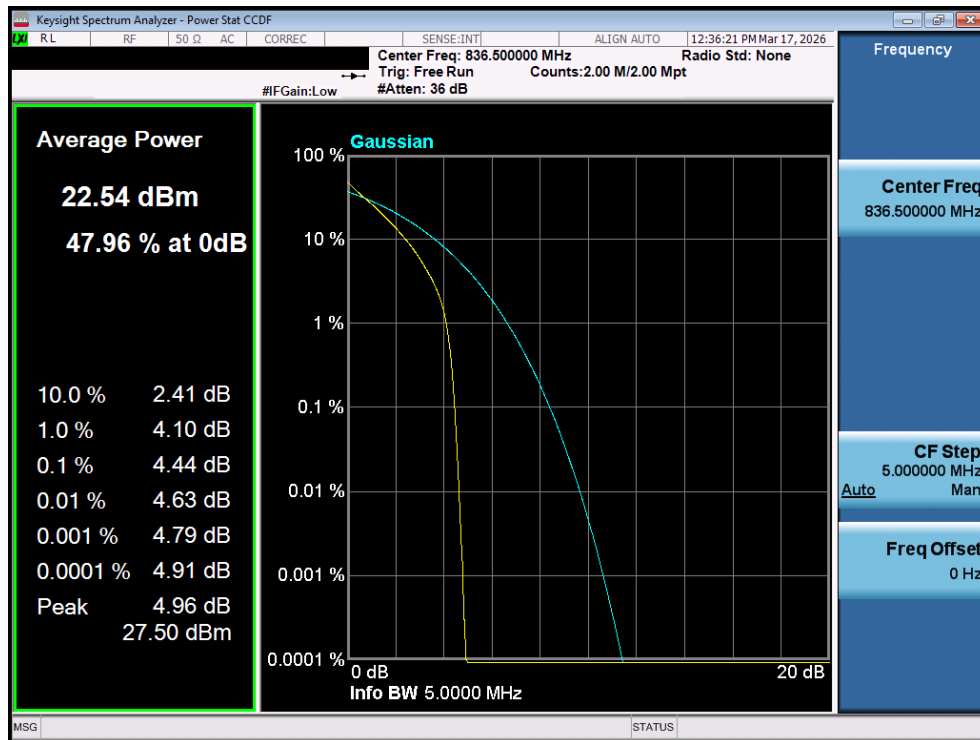


Plot 7-90. PAR Plot (LTE Band 5 – 10MHz QPSK – Full RB – Ant1)

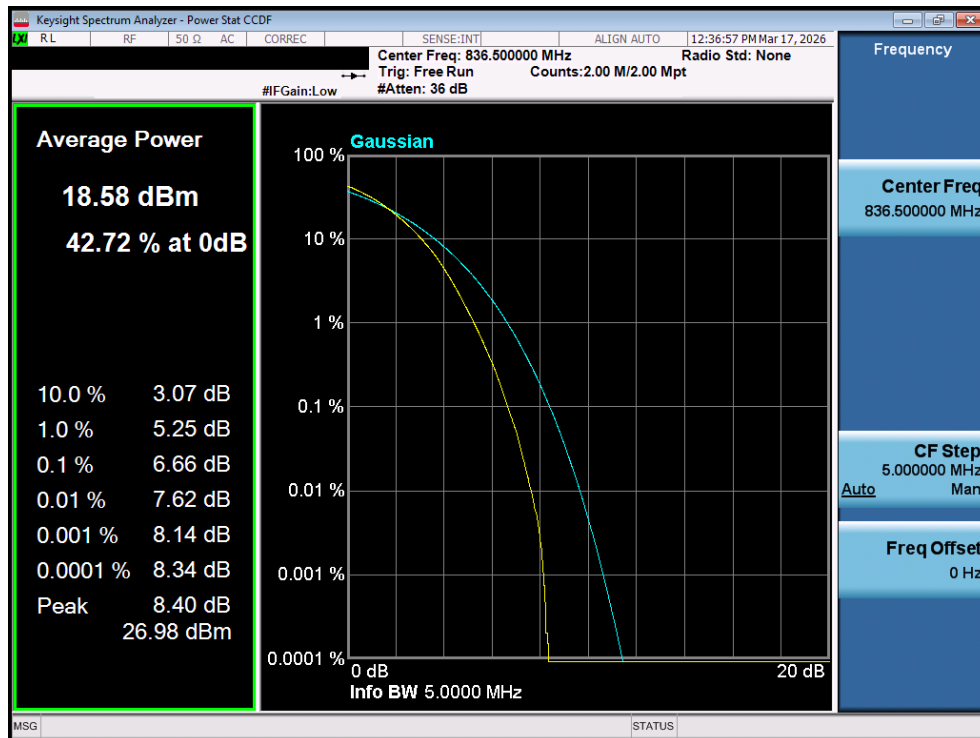


Plot 7-91. PAR Plot (LTE Band 5 – 10MHz 256-QAM – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 79 of 137

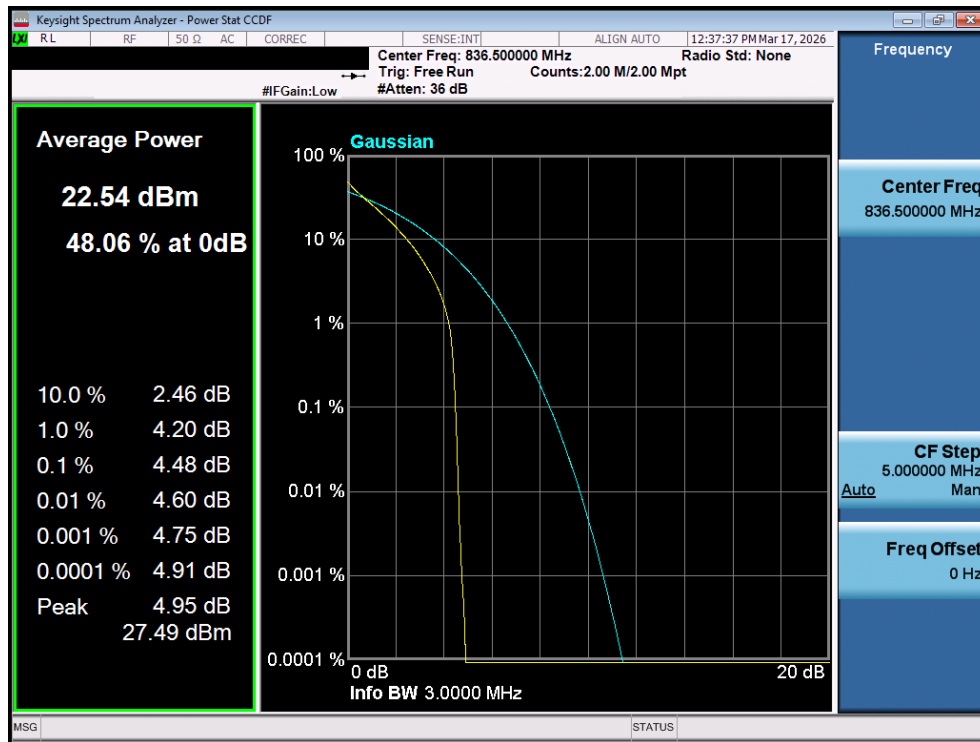


Plot 7-92. PAR Plot (LTE Band 5 – 5MHz QPSK – Full RB – Ant1)

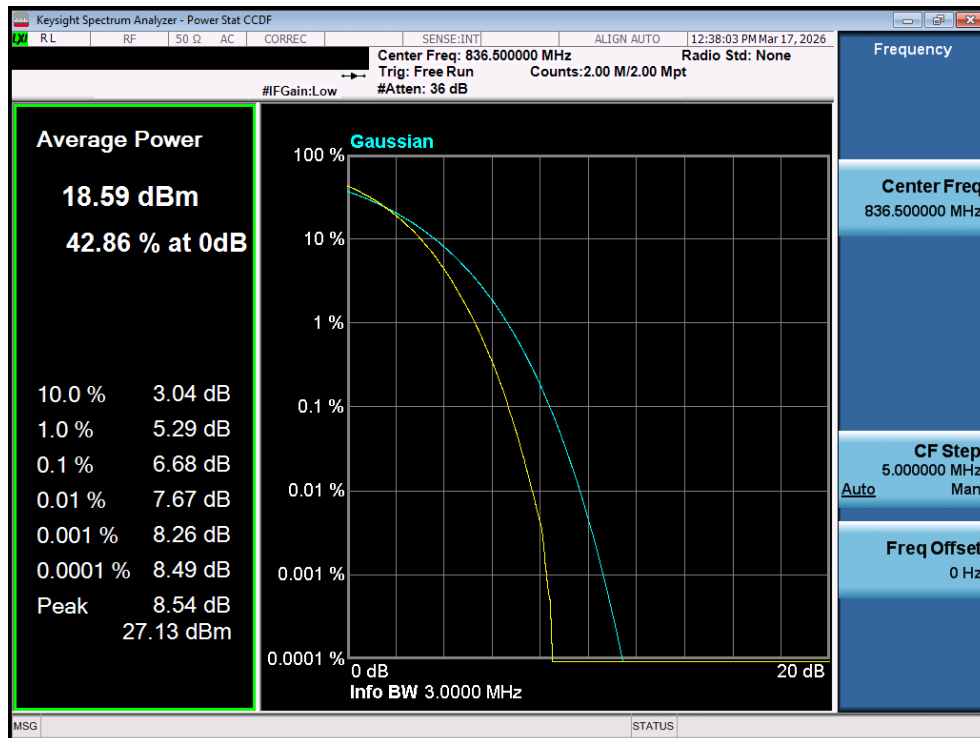


Plot 7-93. PAR Plot (LTE Band 5 – 5MHz 256-QAM – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1-A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 80 of 137

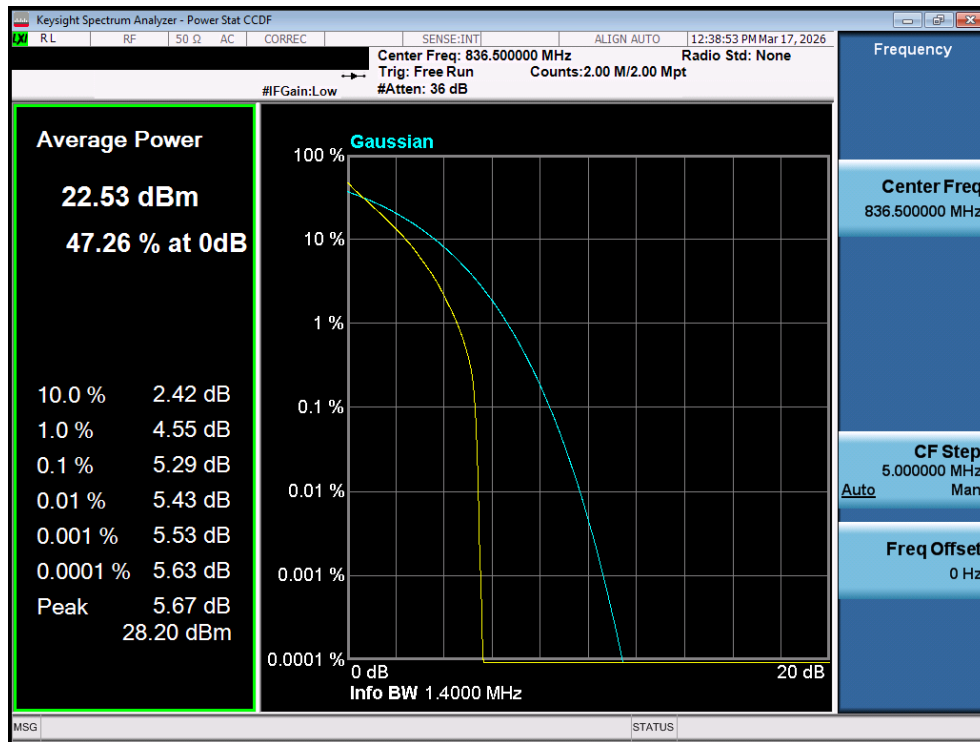


Plot 7-94. PAR Plot (LTE Band 5 – 3MHz QPSK – Full RB – Ant1)

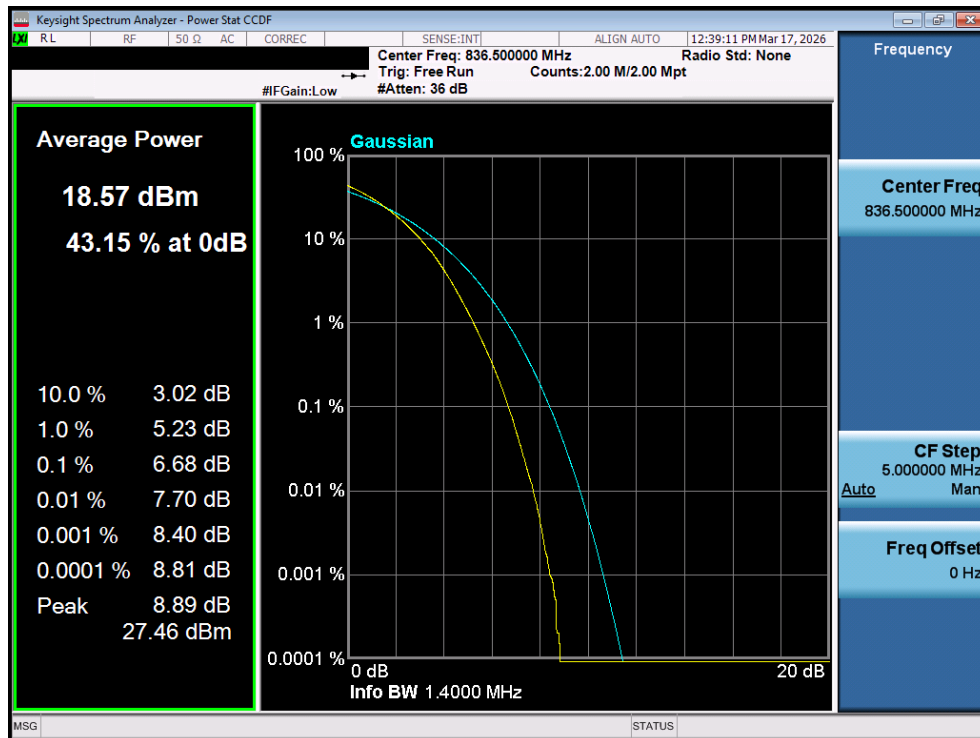


Plot 7-95. PAR Plot (LTE Band 5 – 3MHz 256-QAM – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1-A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 81 of 137



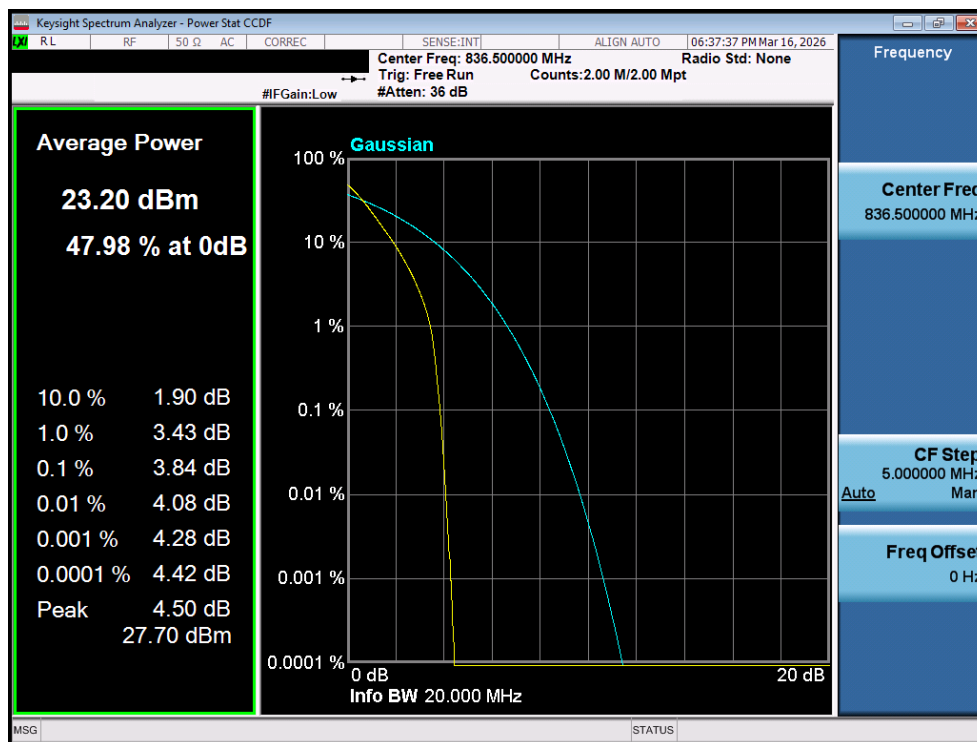
Plot 7-96. PAR Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Ant1)



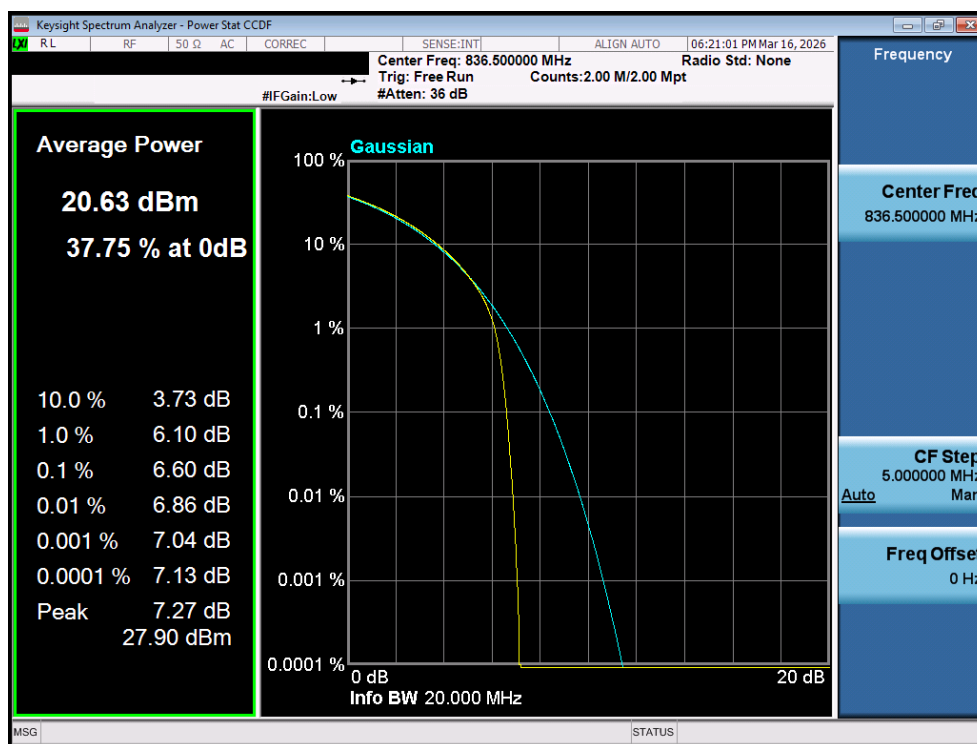
Plot 7-97. PAR Plot (LTE Band 5 – 1.4MHz 256-QAM – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1-A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 82 of 137

NR Band n5 – Ant1

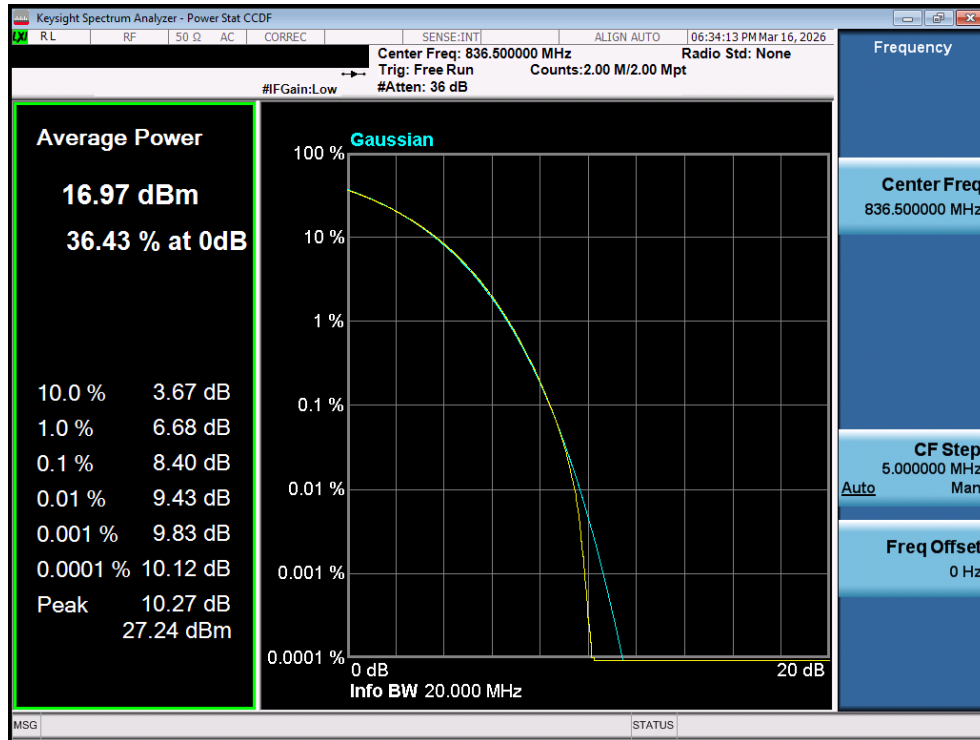


Plot 7-98. PAR Plot (NR Band n5 - 20MHz $\pi/2$ BPSK – Full RB – Ant1)

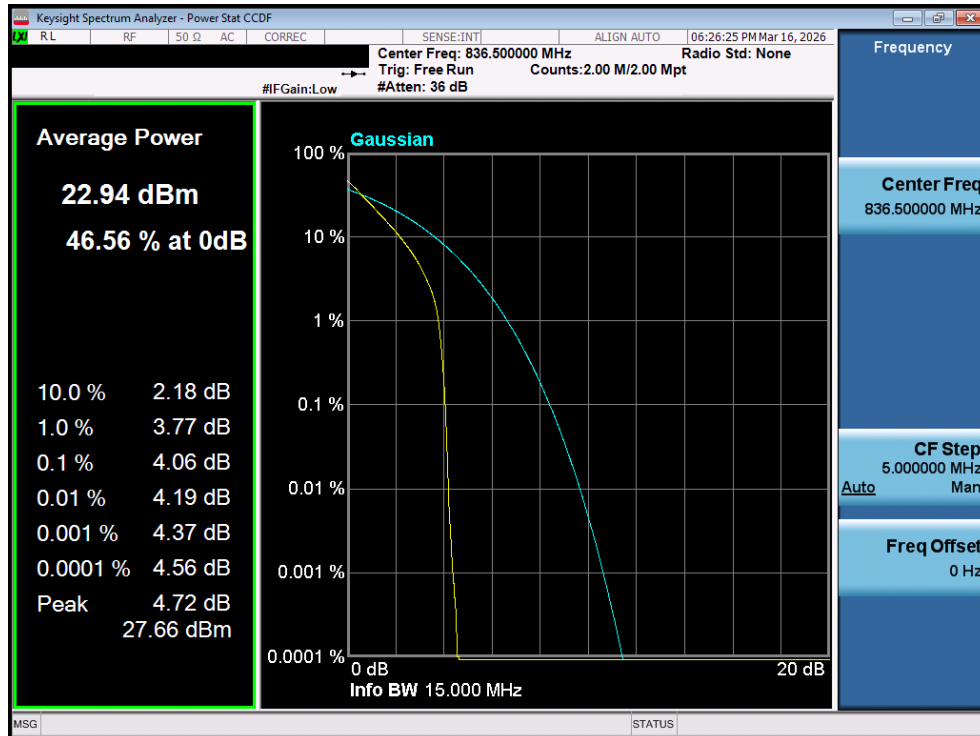


Plot 7-99. PAR Plot (NR Band n5 - 20MHz QPSK – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 83 of 137

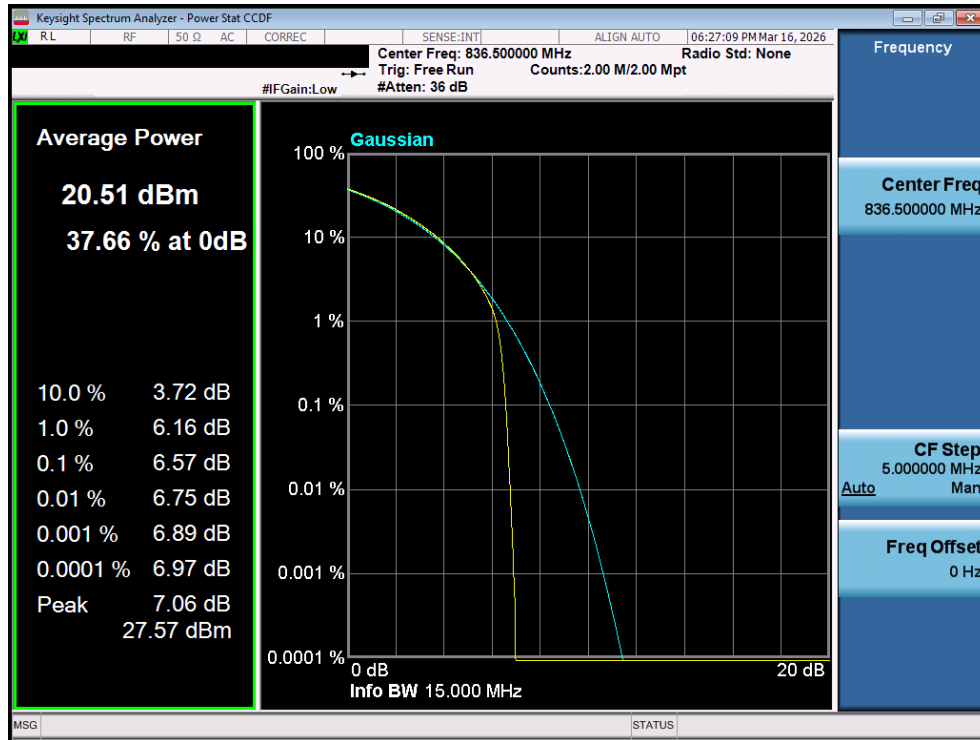


Plot 7-100. PAR Plot (NR Band n5 - 20MHz 256-QAM – Full RB – Ant1)

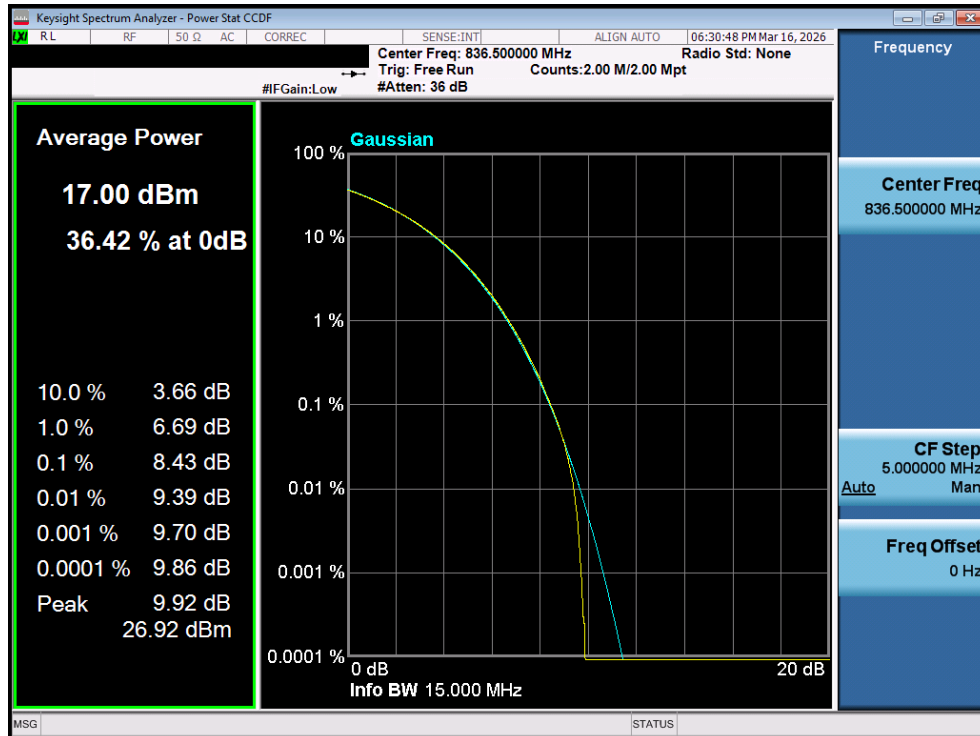


Plot 7-101. PAR Plot (NR Band n5 - 15MHz $\pi/2$ BPSK – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 84 of 137

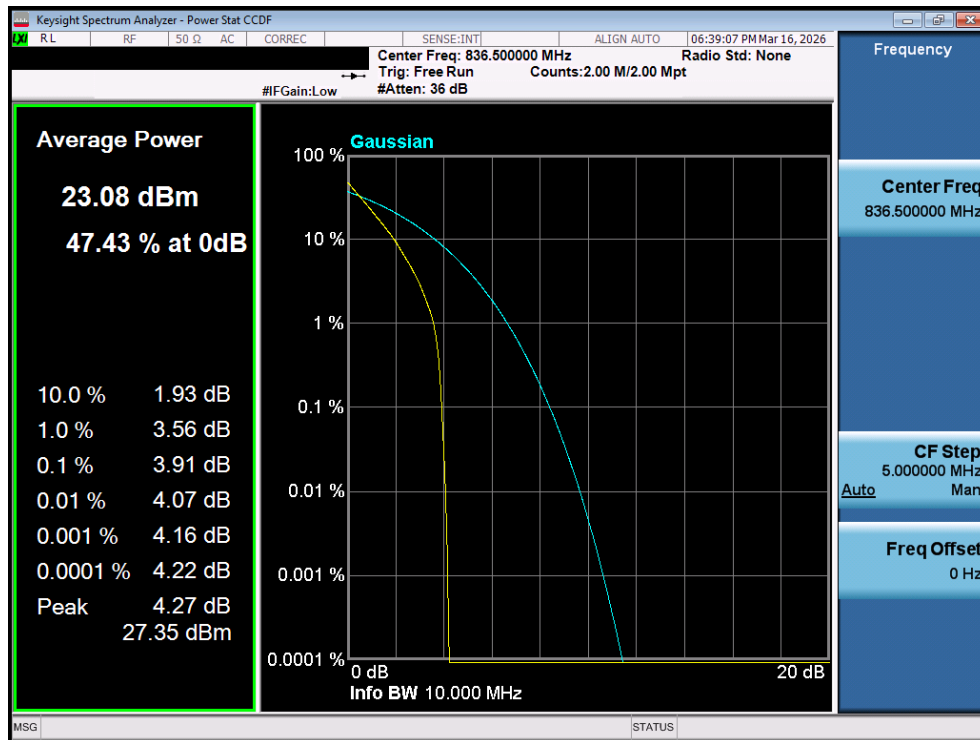


Plot 7-102. PAR Plot (NR Band n5 - 15MHz QPSK – Full RB – Ant1)

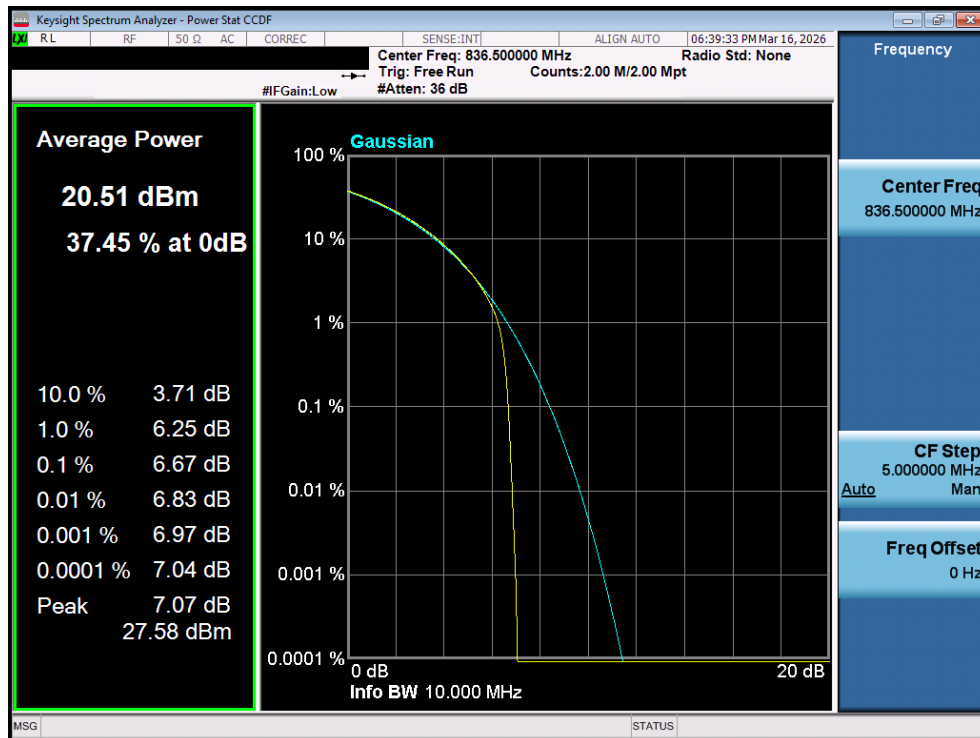


Plot 7-103. PAR Plot (NR Band n5 - 15MHz 256-QAM – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1-A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 85 of 137

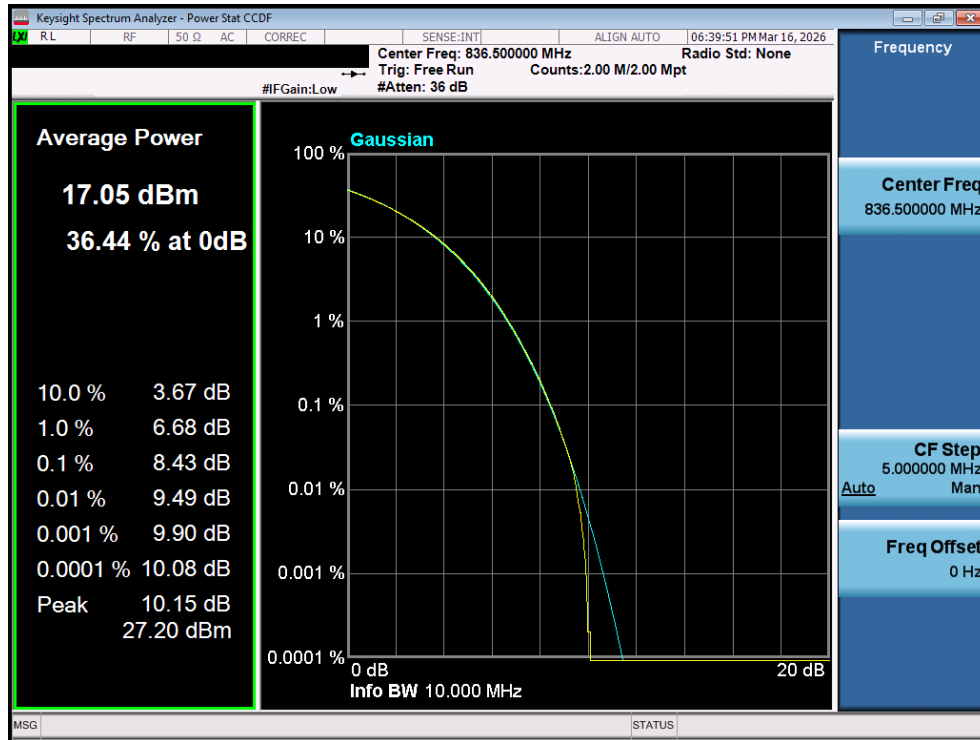


Plot 7-104. PAR Plot (NR Band n5 - 10MHz $\pi/2$ BPSK - Full RB - Ant1)

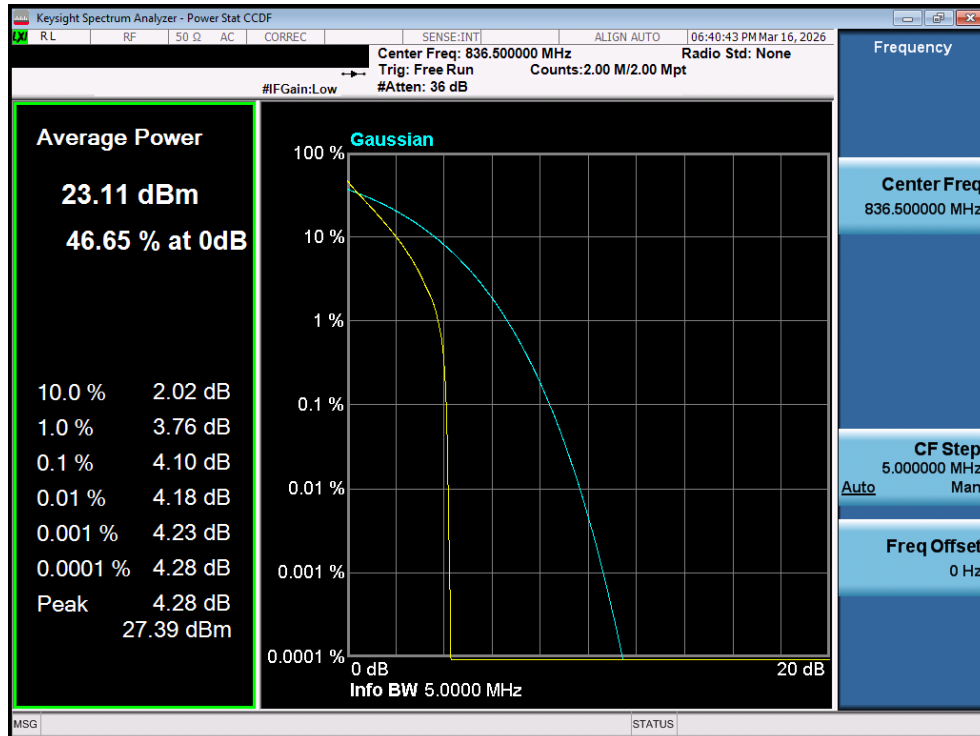


Plot 7-105. PAR Plot (NR Band n5 - 10MHz QPSK - Full RB - Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 86 of 137

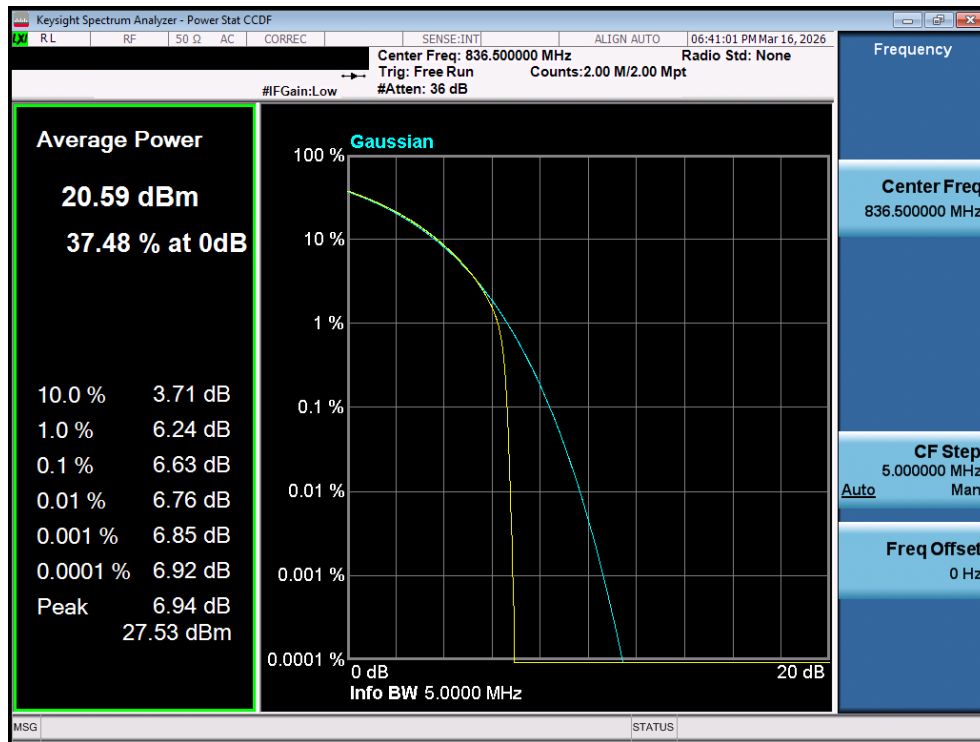


Plot 7-106. PAR Plot (NR Band n5 - 10MHz 256-QAM – Full RB – Ant1)

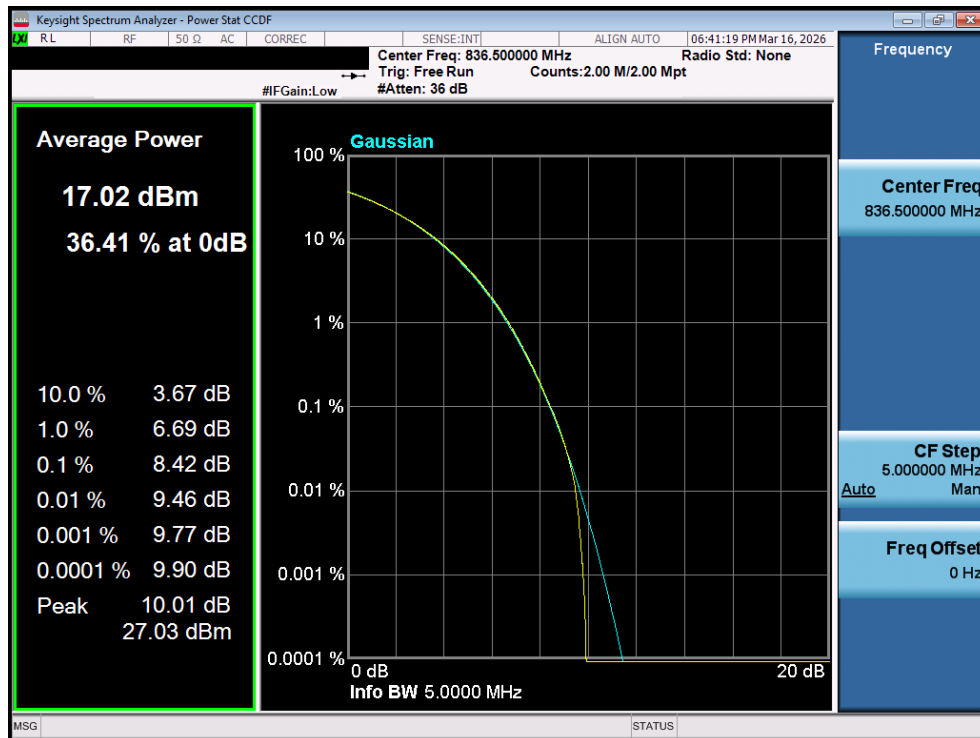


Plot 7-107. PAR Plot (NR Band n5 - 5MHz $\pi/2$ BPSK – Full RB – Ant1)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 87 of 137



Plot 7-108. PAR Plot (NR Band n5 - 5MHz QPSK – Full RB – Ant1)



Plot 7-109. PAR Plot (NR Band n5 - 5MHz 256-QAM – Full RB – Ant1)

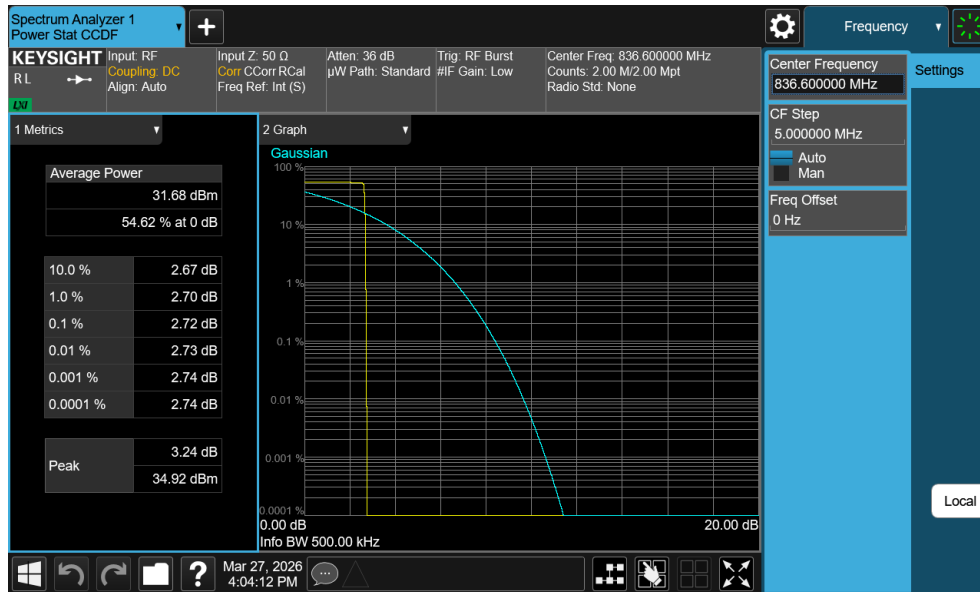
FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM-Cell	N/A	GMSK	31.68	2.72	13.0	-10.28
GSM-Cell Edge		8-PSK	25.96	2.86	13.0	-10.14
WCDMA		Spread Spectrum	25.15	2.31	13.0	-10.69
LTE-B5	10 MHz	QPSK	23.59	4.49	13.0	-8.51
		256QAM	19.59	6.59	13.0	-6.41
	5 MHz	QPSK	23.61	4.45	13.0	-8.55
		256QAM	19.61	6.63	13.0	-6.37
	3 MHz	QPSK	23.59	4.50	13.0	-8.50
		256QAM	19.63	6.67	13.0	-6.33
	1.4 MHz	QPSK	23.14	5.54	13.0	-7.46
		256QAM	19.53	6.61	13.0	-6.39
NR-n5	20 MHz	$\pi/2$ BPSK	23.58	3.50	13.0	-9.50
		QPSK	21.14	6.52	13.0	-6.48
		256QAM	17.58	8.39	13.0	-4.61
	15 MHz	$\pi/2$ BPSK	23.57	3.89	13.0	-9.11
		QPSK	21.06	6.51	13.0	-6.49
		256QAM	17.61	8.40	13.0	-4.60
	10 MHz	$\pi/2$ BPSK	23.61	3.80	13.0	-9.20
		QPSK	21.04	6.63	13.0	-6.37
		256QAM	17.57	8.42	13.0	-4.58
	5 MHz	$\pi/2$ BPSK	23.55	4.05	13.0	-8.95
		QPSK	21.06	6.64	13.0	-6.36
		256QAM	17.56	8.42	13.0	-4.58

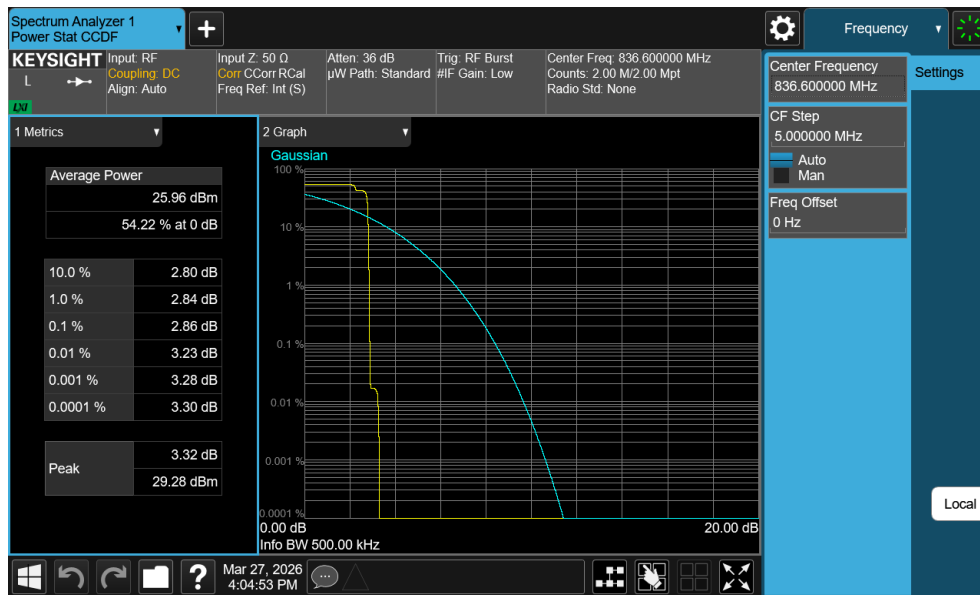
Table 7-15. Peak-Average Ratio Results – Ant2

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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GP RS Cell – Ant2



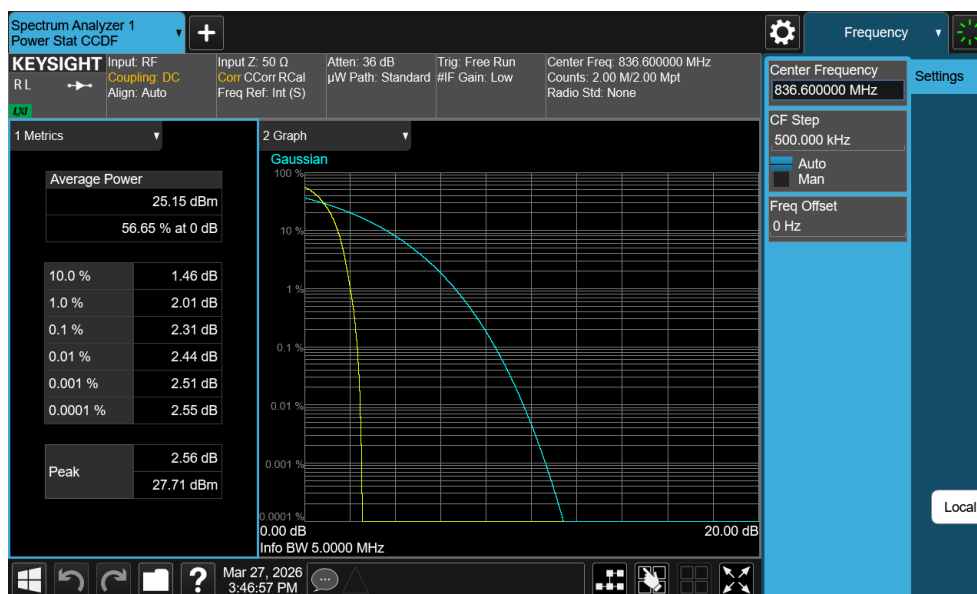
Plot 7-110. PAR Plot (GPRS, Ch. 190 – Ant2)



Plot 7-111. PAR Plot (EDGE, Ch. 190 – Ant2)

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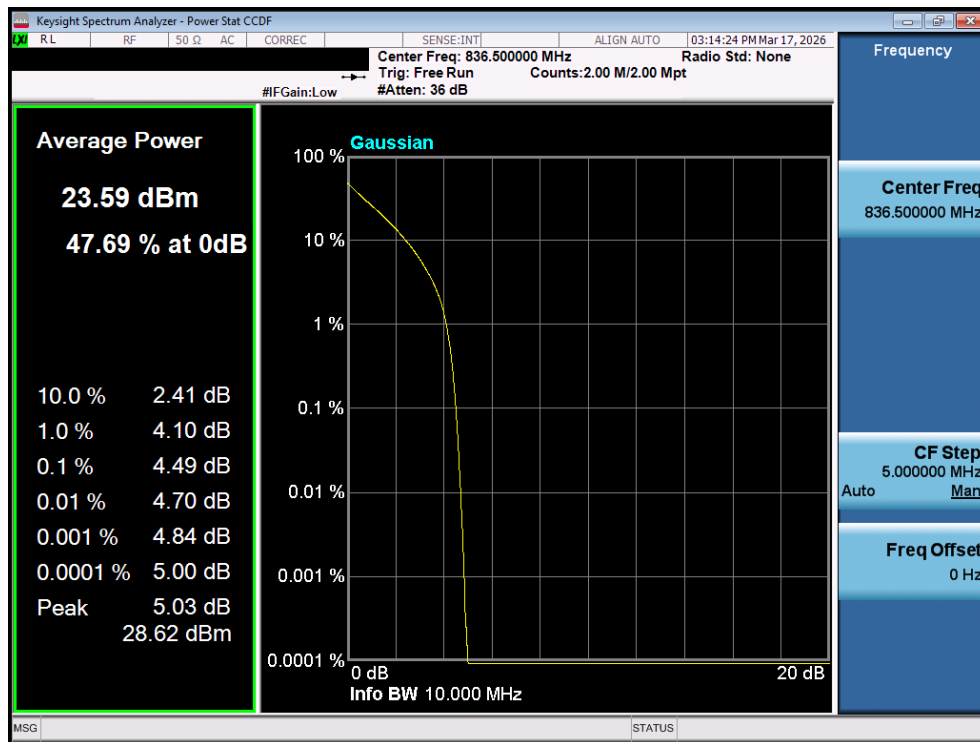
WCDMA Cell – Ant2



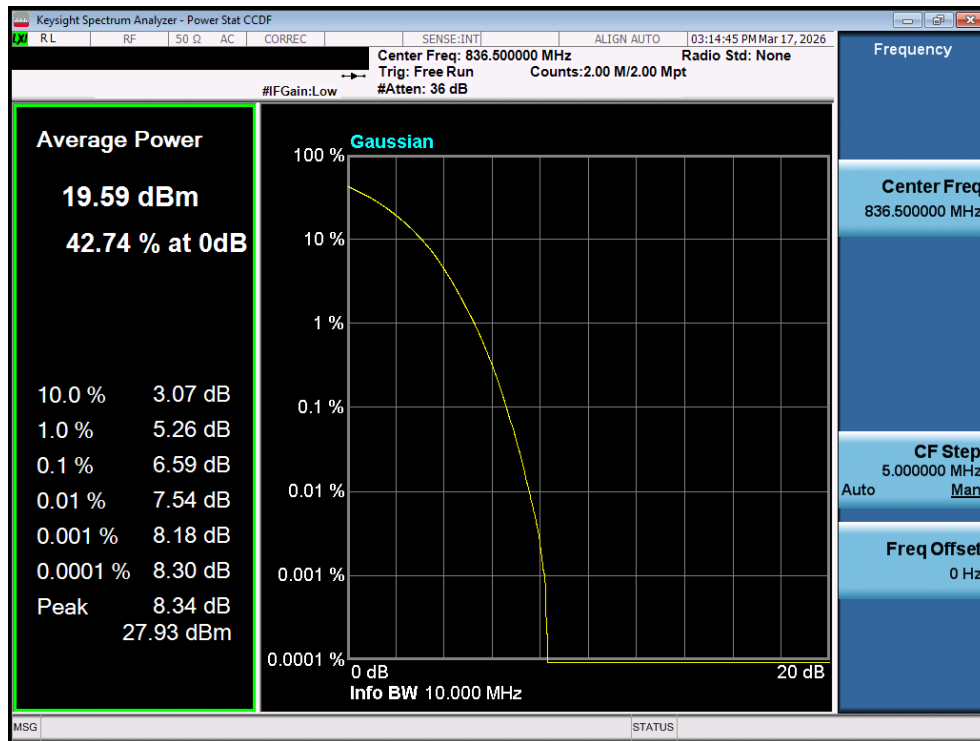
Plot 7-112. PAR Plot (WCDMA, Ch. 4183 – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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LTE Band 5 – Ant2

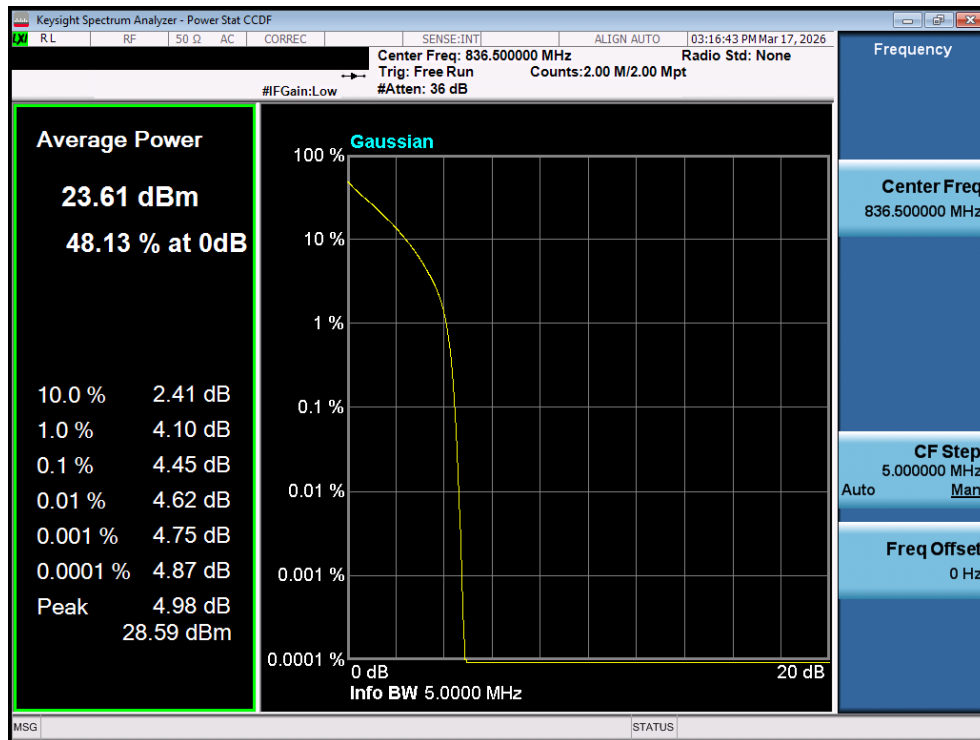


Plot 7-113. PAR Plot (LTE Band 5 – 10MHz QPSK – Full RB – Ant2)

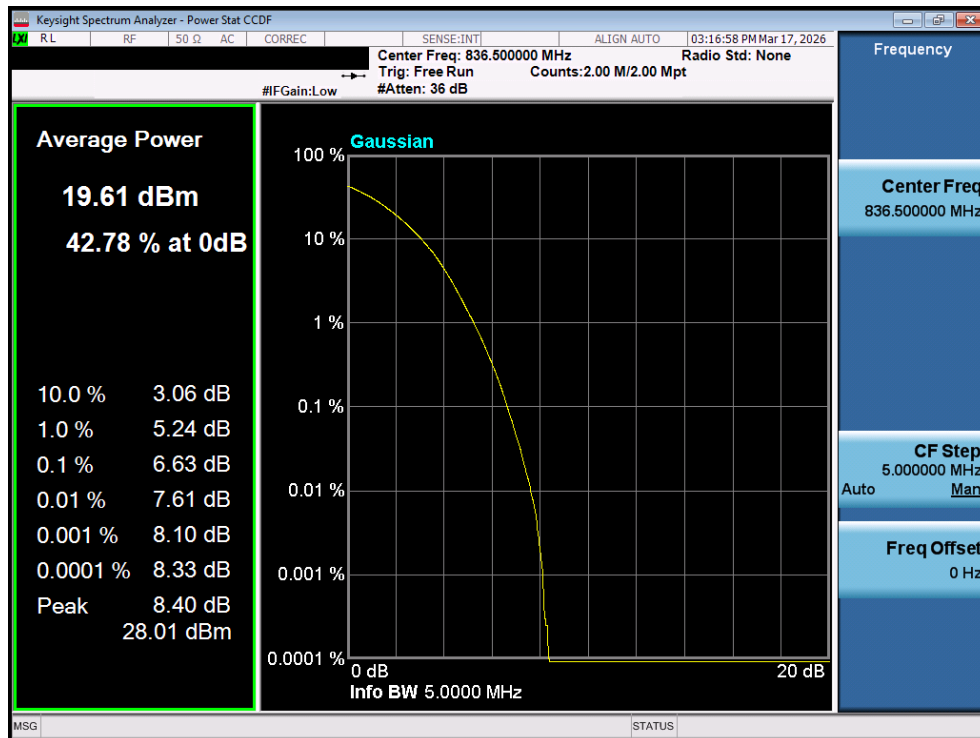


Plot 7-114. PAR Plot (LTE Band 5 – 10MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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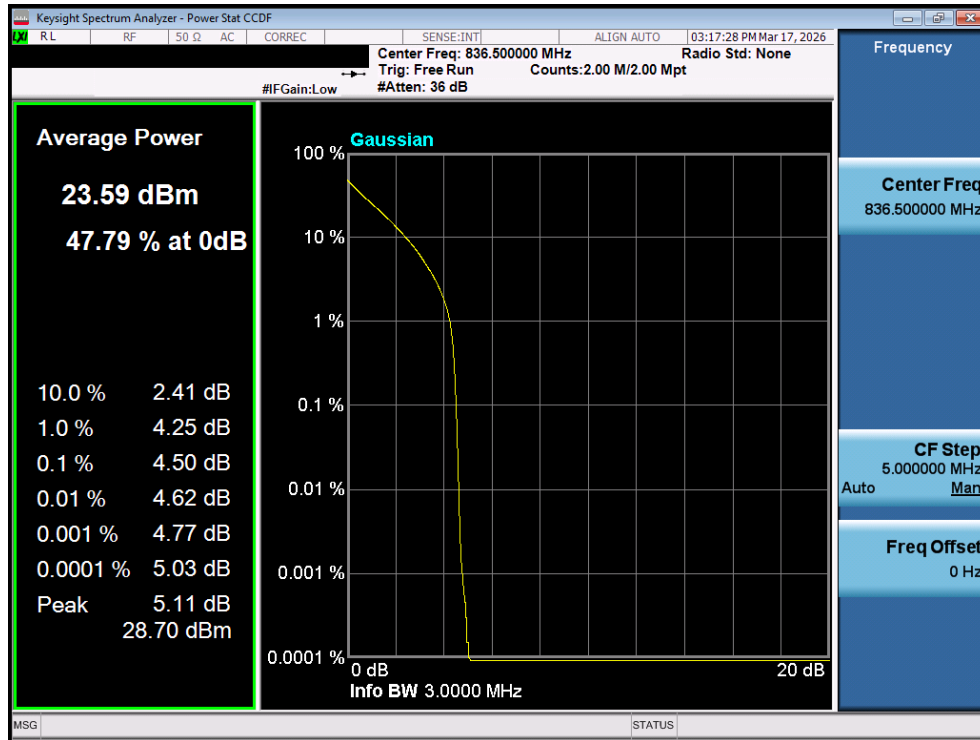


Plot 7-115. PAR Plot (LTE Band 5 – 5MHz QPSK – Full RB – Ant2)

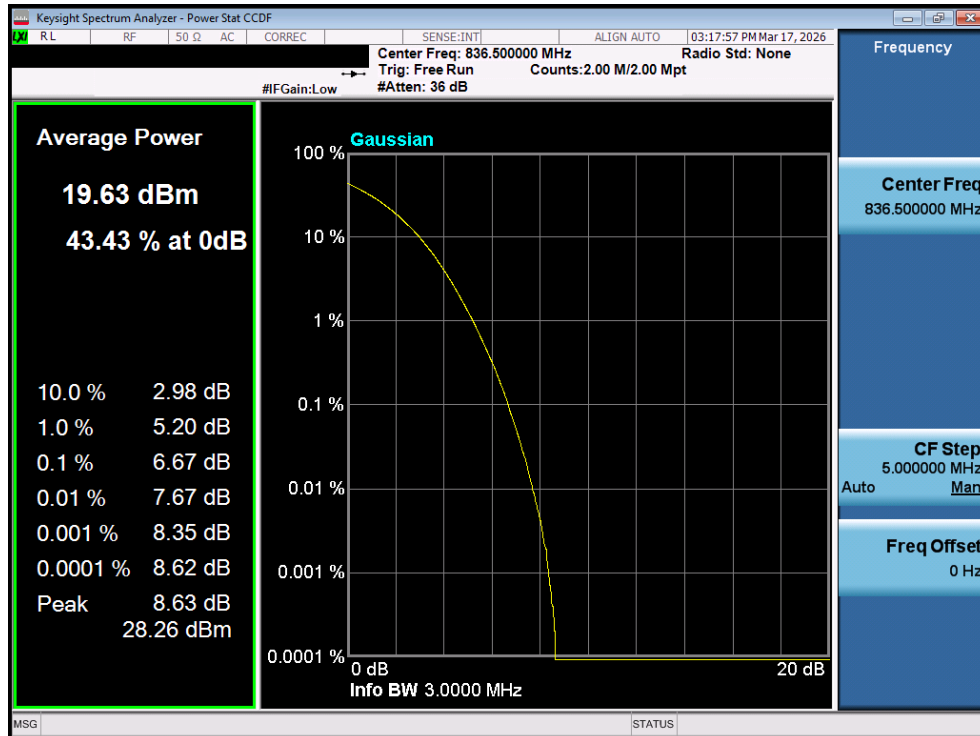


Plot 7-116. PAR Plot (LTE Band 5 – 5MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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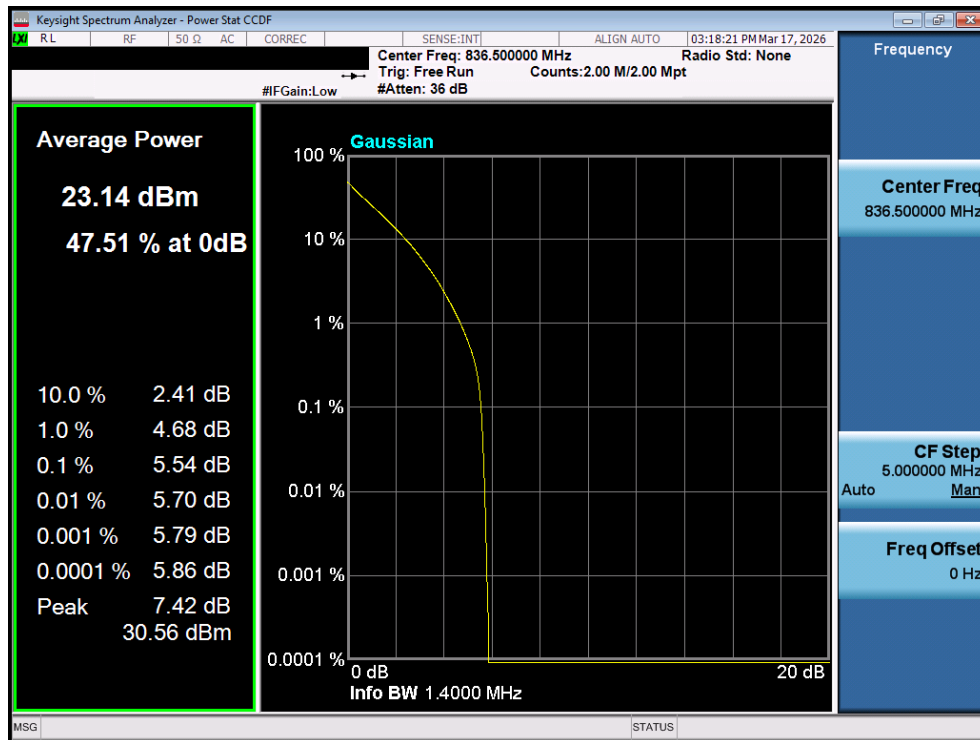


Plot 7-117. PAR Plot (LTE Band 5 – 3MHz QPSK – Full RB – Ant2)

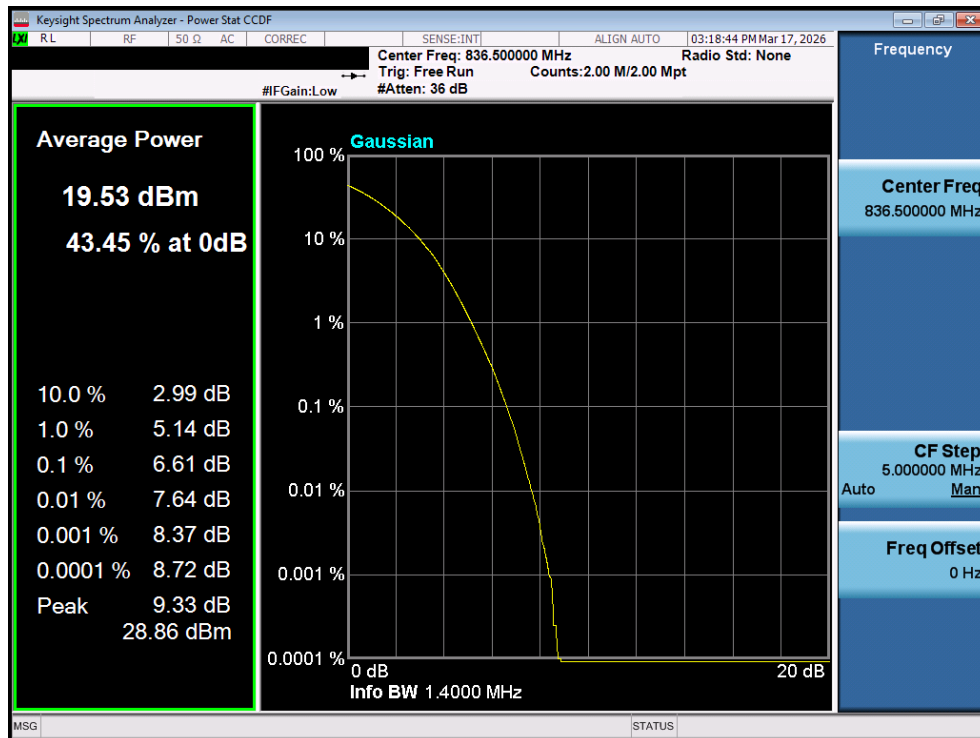


Plot 7-118. PAR Plot (LTE Band 5 – 3MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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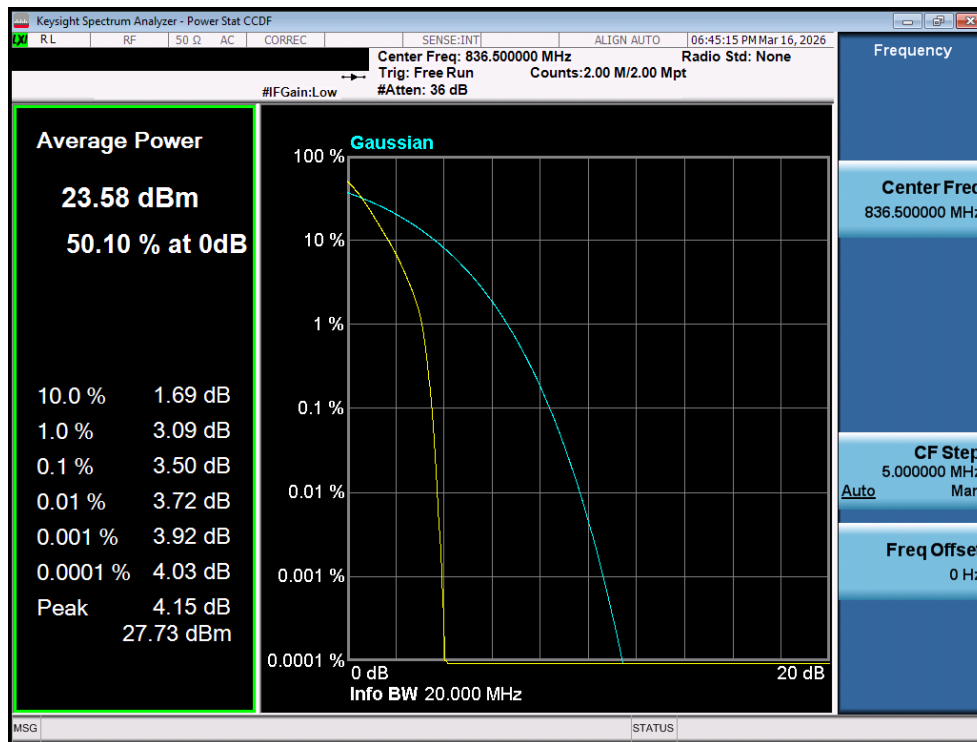
Plot 7-119. PAR Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Ant2)



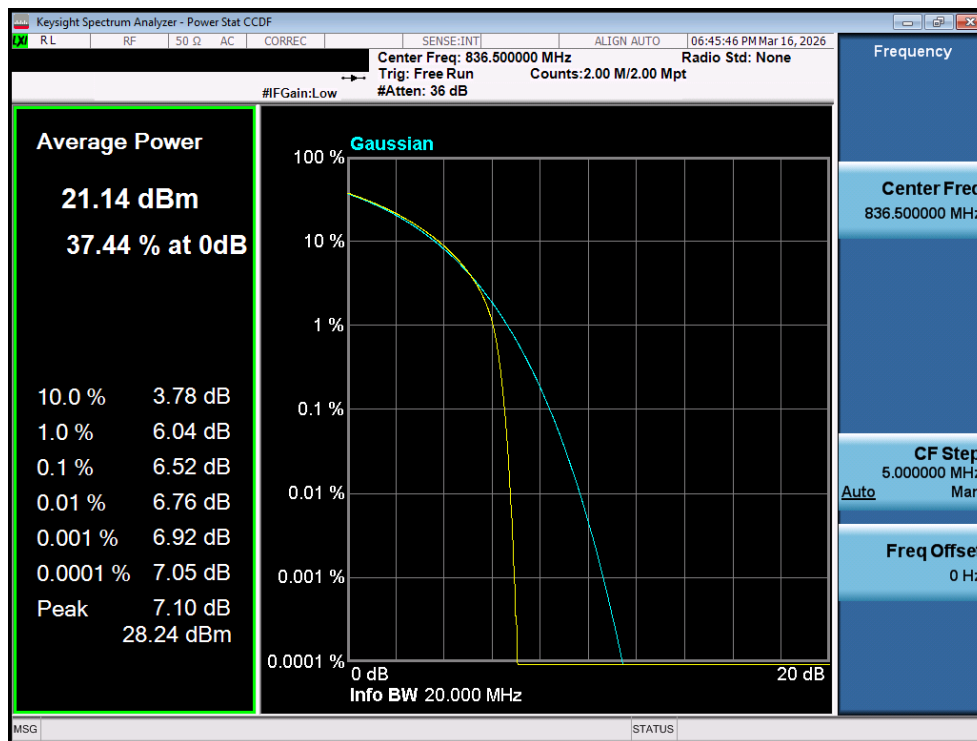
Plot 7-120. PAR Plot (LTE Band 5 – 1.4MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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NR Band n5 – Ant2

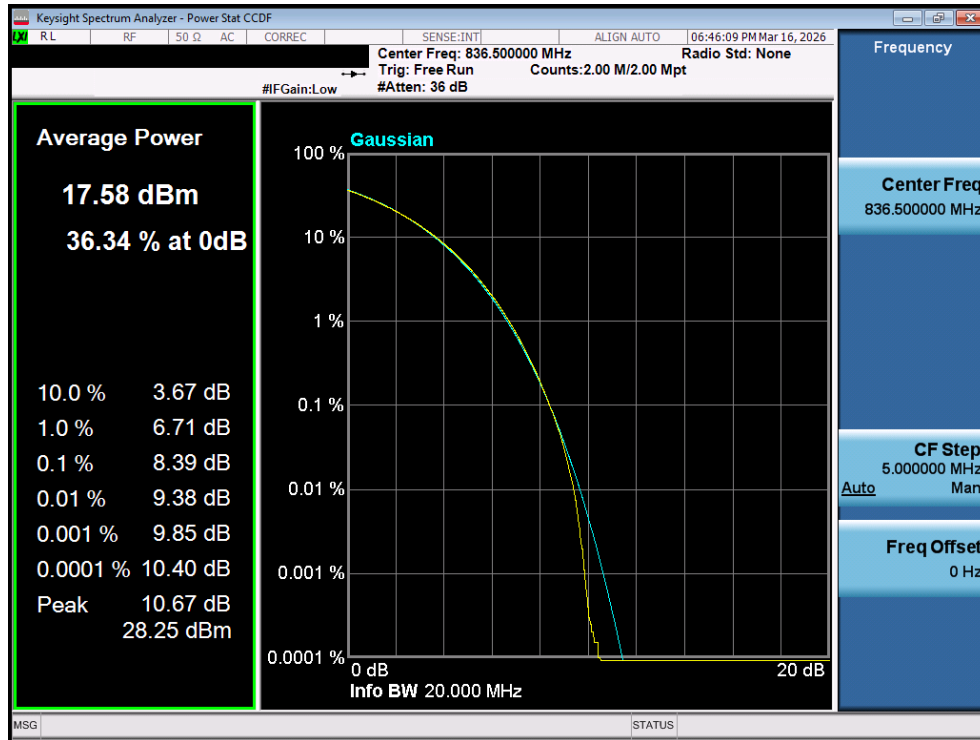


Plot 7-121. PAR Plot (NR Band n5 - 20MHz $\pi/2$ BPSK – Full RB – Ant2)

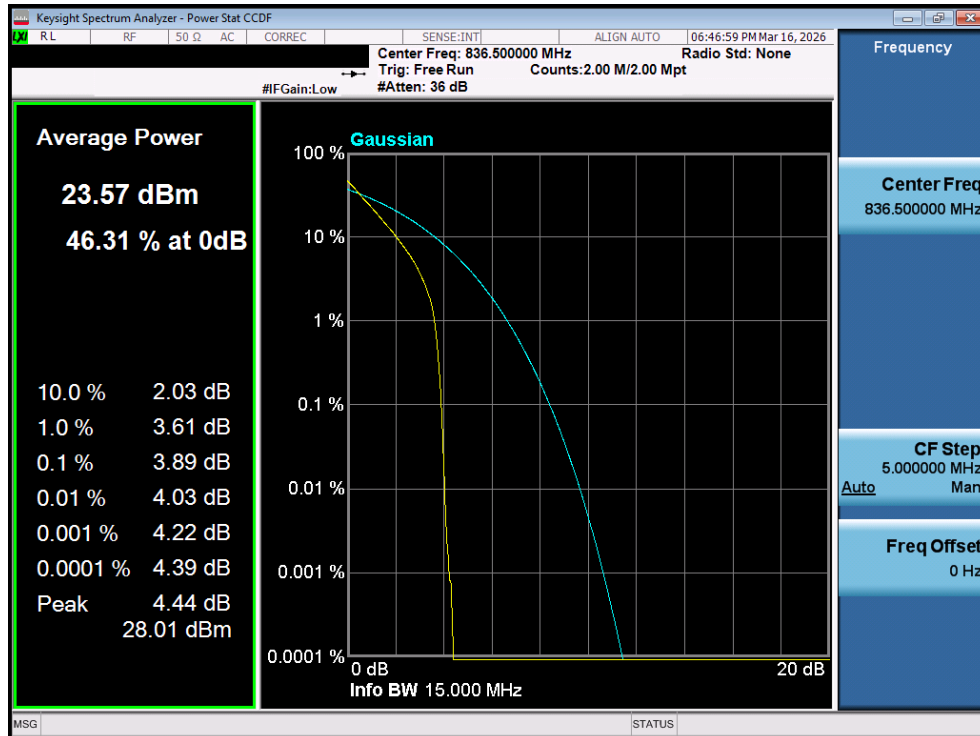


Plot 7-122. PAR Plot (NR Band n5 - 20MHz QPSK – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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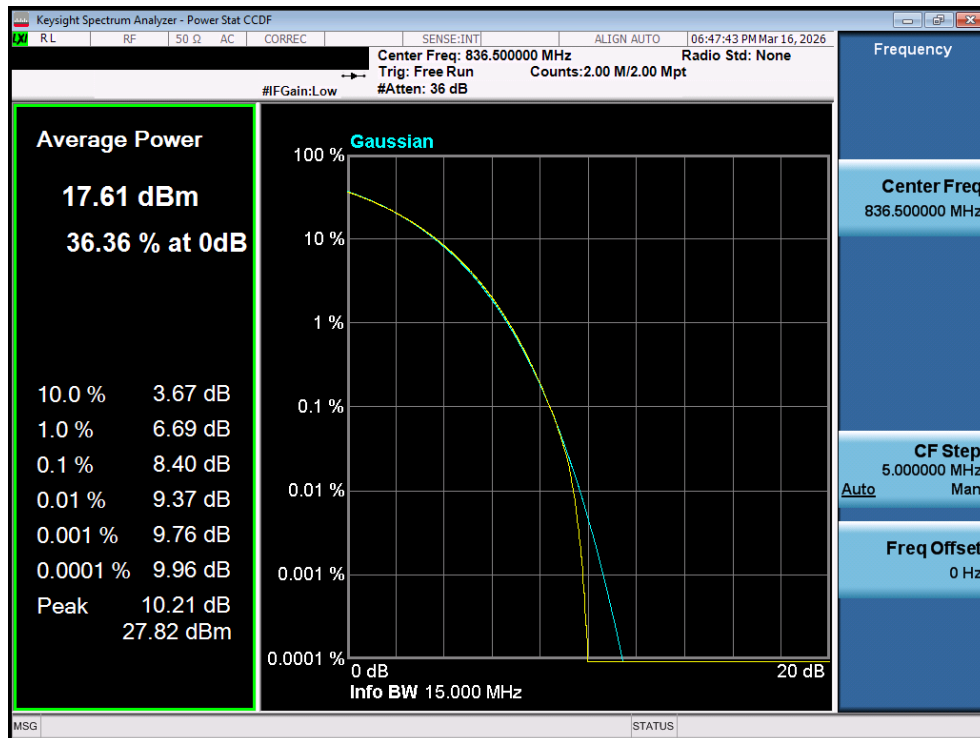
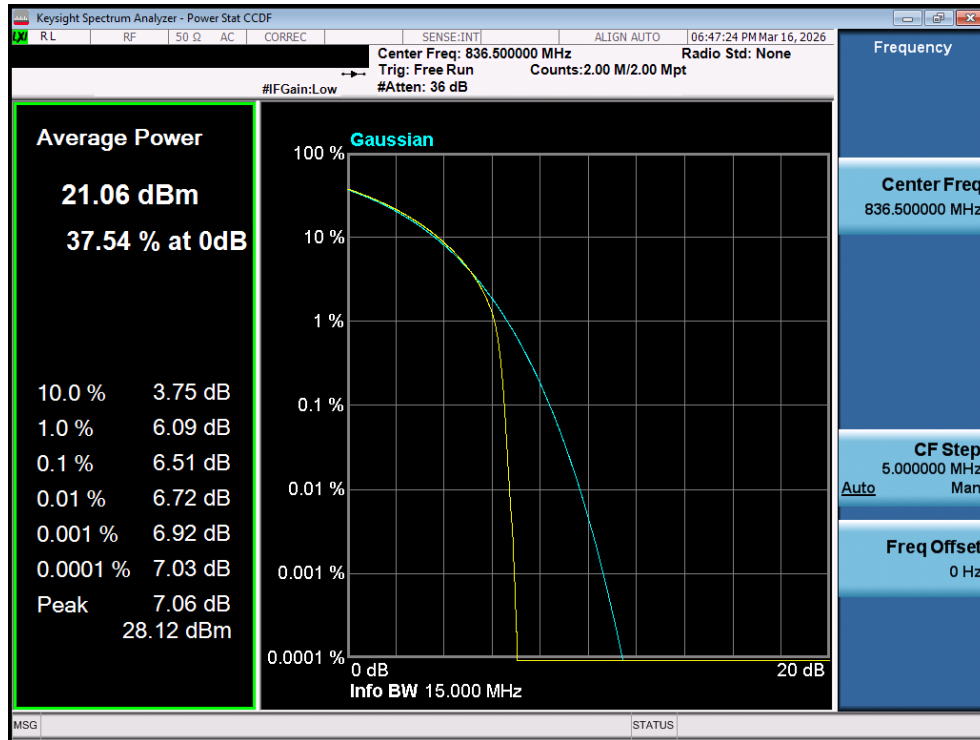


Plot 7-123. PAR Plot (NR Band n5 - 20MHz 256-QAM – Full RB – Ant2)

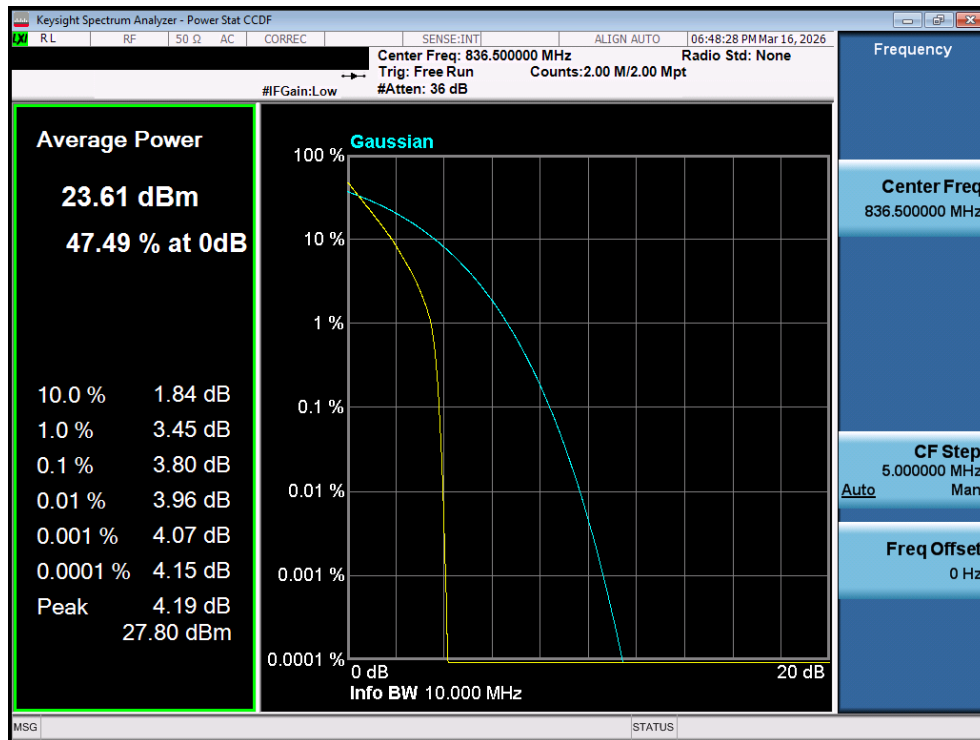


Plot 7-124. PAR Plot (NR Band n5 - 15MHz $\pi/2$ BPSK – Full RB – Ant2)

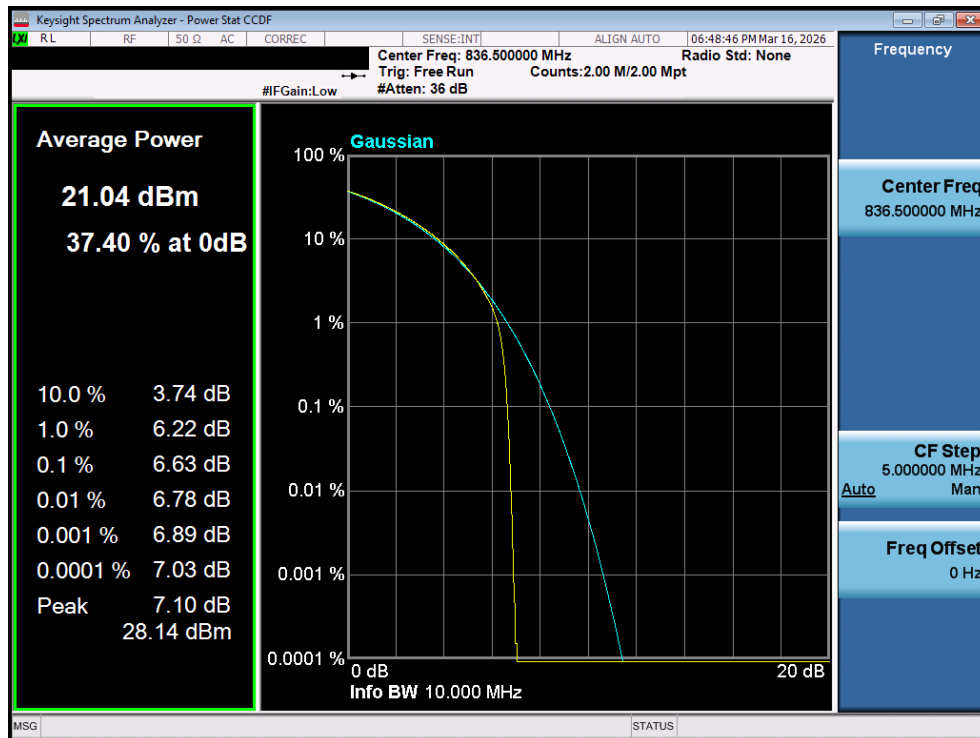
FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1-A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 97 of 137



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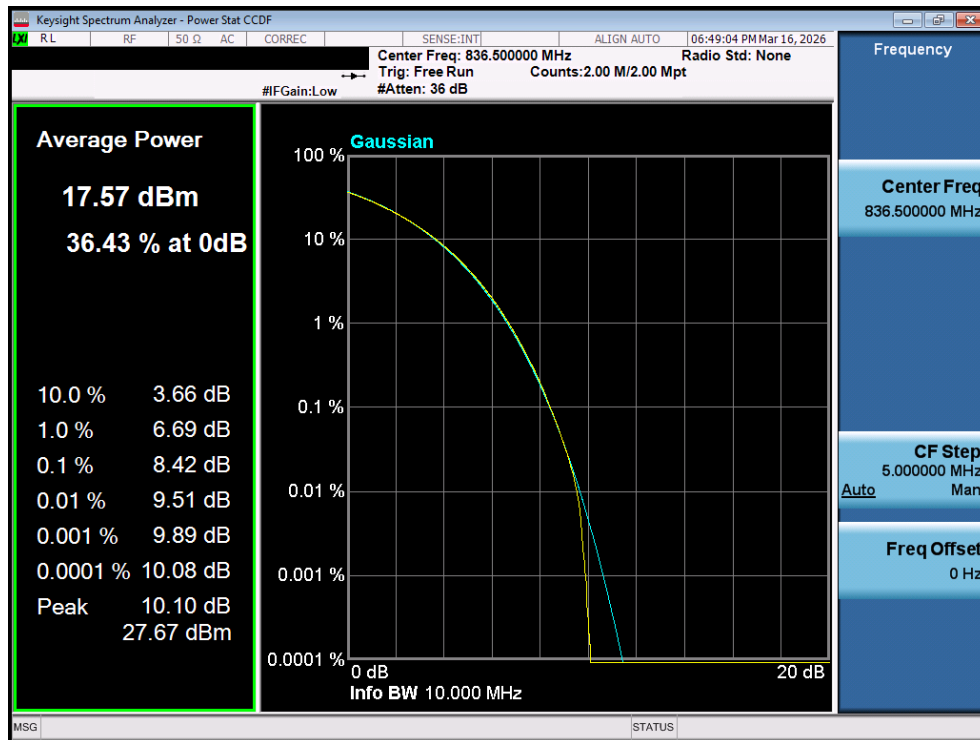


Plot 7-127. PAR Plot (NR Band n5 - 10MHz $\pi/2$ BPSK - Full RB - Ant2)

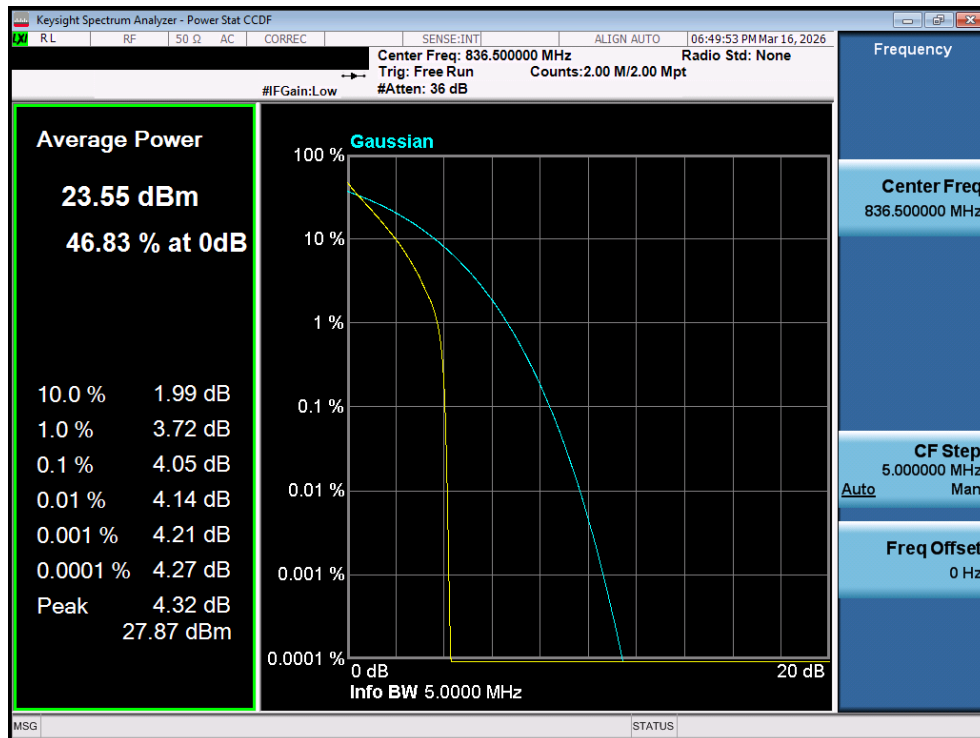


Plot 7-128. PAR Plot (NR Band n5 - 10MHz QPSK - Full RB - Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 99 of 137

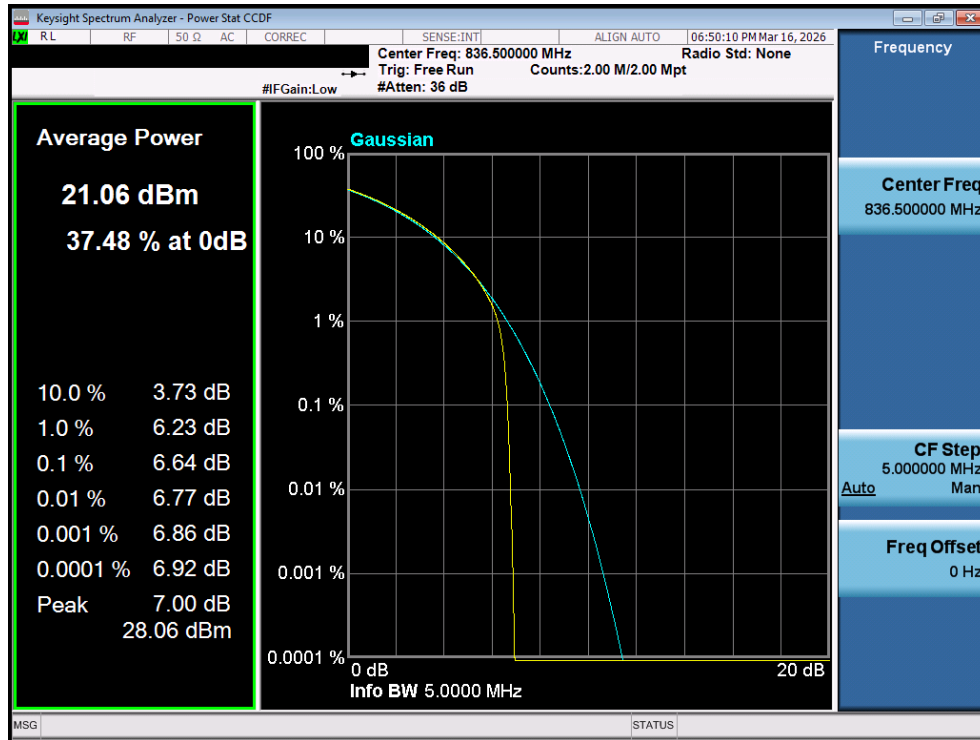


Plot 7-129. PAR Plot (NR Band n5 - 10MHz 256-QAM – Full RB – Ant2)

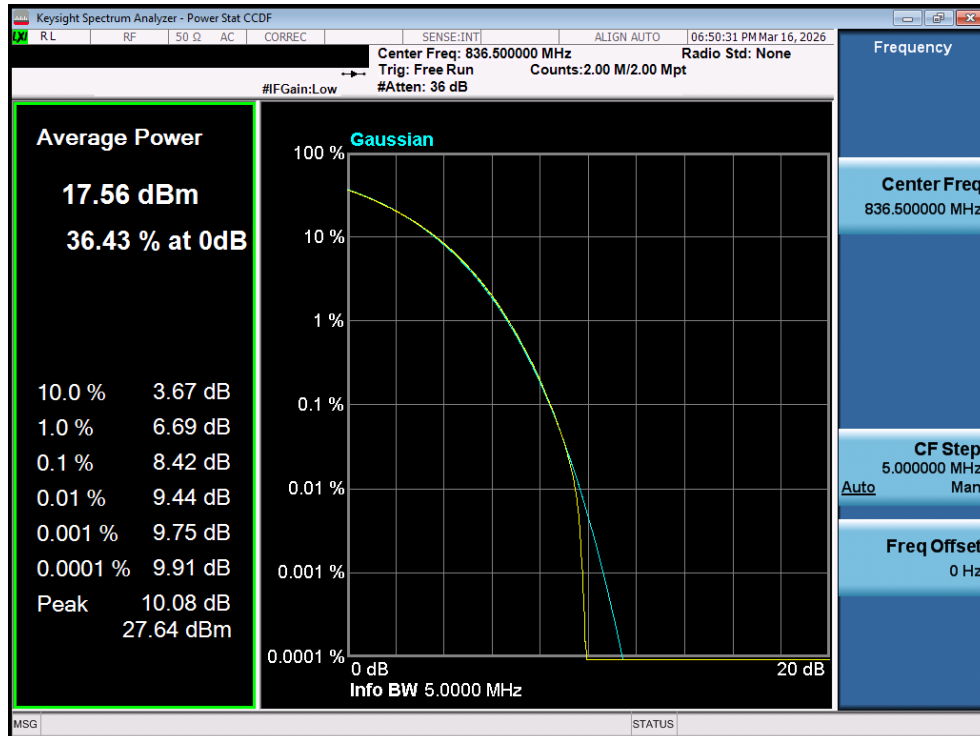


Plot 7-130. PAR Plot (NR Band n5 - 5MHz $\pi/2$ BPSK – Full RB – Ant2)

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Plot 7-131. PAR Plot (NR Band n5 - 5MHz QPSK – Full RB – Ant2)



Plot 7-132. PAR Plot (NR Band n5 - 5MHz 256-QAM – Full RB – Ant2)

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7.7 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) 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.

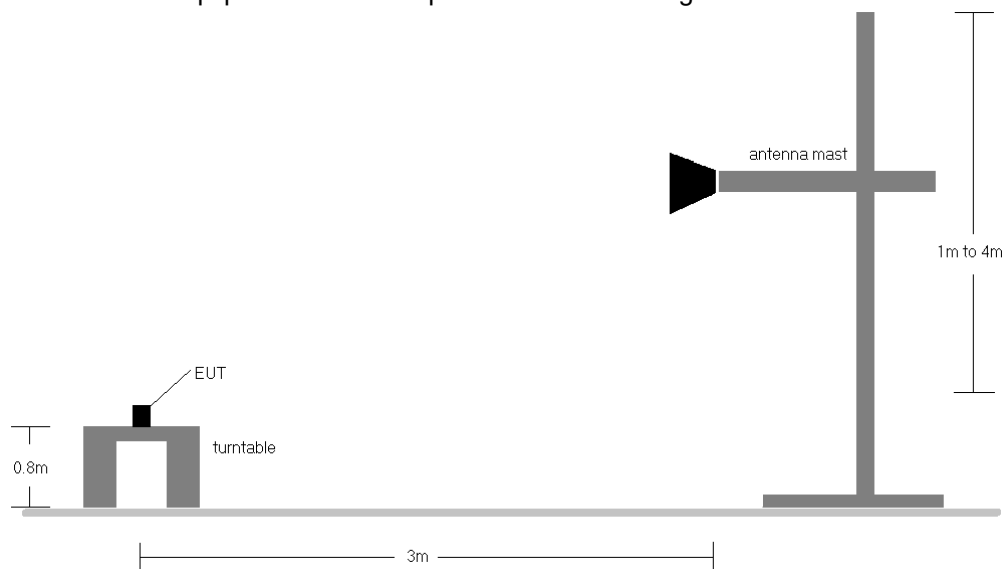


Figure 7-6. Radiated Test Setup < 1GHz

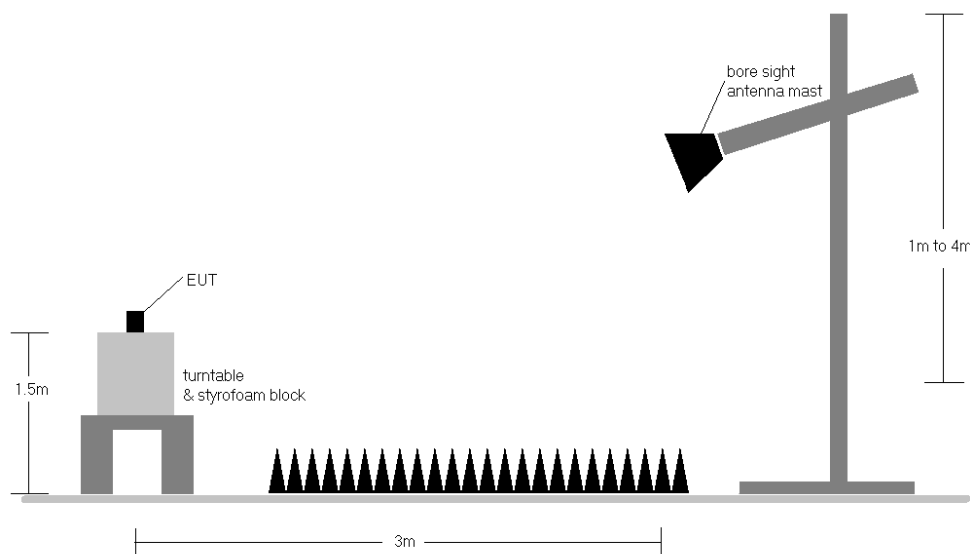


Figure 7-7. Radiated Test Setup > 1GHz

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".

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- 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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.20	GSM850	H	109	291	27.41	1.05	26.31	0.427	38.45	-12.14
836.60	GSM850	H	113	296	27.74	1.08	26.67	0.464	38.45	-11.79
848.80	GSM850	H	114	289	26.45	1.10	25.40	0.347	38.45	-13.05
836.60	GSM850	V	135	237	21.07	1.08	20.00	0.100	38.45	-18.46
836.60	EDGE850	H	113	296	20.69	1.08	19.62	0.092	38.45	-18.84
836.60	GSM850 (WCP)	H	113	296	25.45	1.08	24.38	0.274	38.45	-14.08

Table 7-16. ERP Data (GPRS Cell) – Ant1

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	115	299	19.93	1.05	18.83	0.076	38.45	-19.62
836.60	WCDMA850	H	115	307	19.50	1.31	18.66	0.073	38.45	-19.79
846.60	WCDMA850	H	122	296	18.17	1.36	17.38	0.055	38.45	-21.07
826.40	WCDMA850	V	162	223	16.65	1.05	15.55	0.036	38.45	-22.90
826.40	WCDMA850 (WCP)	H	115	292	17.85	1.05	16.75	0.047	38.45	-21.70

Table 7-17. ERP Data (WCDMA Cell) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	829.00	V	100	291	1.06	1 / 0	19.91	18.82	0.076	38.45	-19.63
	QPSK	836.50	V	113	288	1.08	1 / 49	19.84	18.77	0.075	38.45	-19.69
	QPSK	844.00	V	115	292	1.09	1 / 0	19.22	18.17	0.066	38.45	-20.28
	16-QAM	829.00	V	100	291	1.06	1 / 0	18.95	17.85	0.061	38.45	-20.60
5 MHz	QPSK	826.50	V	100	291	1.05	1 / 12	20.09	18.99	0.079	38.45	-19.46
	QPSK	836.50	V	113	288	1.08	1 / 12	19.96	18.89	0.077	38.45	-19.57
	QPSK	846.50	V	115	292	1.10	1 / 12	19.37	18.32	0.068	38.45	-20.13
	16-QAM	836.50	V	113	288	1.08	1 / 12	18.75	17.68	0.059	38.45	-20.78
3 MHz	QPSK	825.50	V	100	291	1.05	1 / 7	20.01	18.91	0.078	38.45	-19.54
	QPSK	836.50	V	113	288	1.08	1 / 7	19.95	18.88	0.077	38.45	-19.58
	QPSK	847.50	V	115	292	1.10	1 / 7	19.34	18.29	0.067	38.45	-20.16
	16-QAM	836.50	V	113	288	1.08	1 / 7	18.77	17.70	0.059	38.45	-20.76
1.4 MHz	QPSK	824.70	V	100	291	1.05	1 / 5	19.98	18.88	0.077	38.45	-19.57
	QPSK	836.50	V	113	288	1.08	1 / 0	19.90	18.83	0.076	38.45	-19.63
	QPSK	848.30	V	115	292	1.10	1 / 5	19.34	18.30	0.068	38.45	-20.15
	16-QAM	836.50	V	113	288	1.08	1 / 0	18.76	17.69	0.059	38.45	-20.77
10 MHz	QPSK (Opposite Pol.)	836.50	H	152	369	1.08	1 / 74	14.58	13.51	0.022	38.45	-24.95
	QPSK (WCP)	836.50	H	117	278	1.08	1 / 37	17.27	16.20	0.042	38.45	-22.26

Table 7-18. ERP Data (LTE Band 5) – 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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	834.00	V	144	226	1.07	1 / 53	19.28	18.20	0.066	38.45	-20.25
	$\pi/2$ BPSK	836.50	V	144	226	1.08	1 / 53	18.92	17.85	0.061	38.45	-20.61
	$\pi/2$ BPSK	839.00	V	144	226	1.08	1 / 53	19.13	18.06	0.064	38.45	-20.39
	QPSK	834.00	V	144	226	1.07	1 / 53	19.34	18.26	0.067	38.45	-20.19
	QPSK	836.50	V	144	226	1.08	1 / 53	18.84	17.77	0.060	38.45	-20.69
	QPSK	839.00	V	144	226	1.08	1 / 53	19.07	18.00	0.063	38.45	-20.45
15 MHz	16-QAM	839.00	V	144	226	1.08	1 / 53	17.09	16.02	0.040	38.45	-22.43
	$\pi/2$ BPSK	831.50	V	144	226	1.06	1 / 77	19.33	18.24	0.067	38.45	-20.21
	$\pi/2$ BPSK	836.50	V	144	226	1.08	1 / 1	18.93	17.86	0.061	38.45	-20.60
	$\pi/2$ BPSK	841.50	V	144	226	1.09	1 / 77	19.01	17.95	0.062	38.45	-20.50
	QPSK	831.50	V	144	226	1.06	1 / 77	19.29	18.20	0.066	38.45	-20.25
	QPSK	836.50	V	144	226	1.08	1 / 1	18.78	17.71	0.059	38.45	-20.75
10 MHz	QPSK	841.50	V	144	226	1.09	1 / 77	19.10	18.04	0.064	38.45	-20.41
	16-QAM	841.50	V	144	226	1.09	1 / 77	16.97	15.91	0.039	38.45	-22.54
	$\pi/2$ BPSK	829.00	V	144	226	1.06	1 / 1	19.35	18.26	0.067	38.45	-20.19
	$\pi/2$ BPSK	836.50	V	144	226	1.08	1 / 26	18.90	17.83	0.061	38.45	-20.63
	$\pi/2$ BPSK	844.00	V	144	226	1.09	1 / 26	18.92	17.86	0.061	38.45	-20.59
	QPSK	829.00	V	144	226	1.06	1 / 1	19.20	18.11	0.065	38.45	-20.34
5 MHz	QPSK	836.50	V	144	226	1.08	1 / 26	18.82	17.75	0.060	38.45	-20.71
	QPSK	844.00	V	144	226	1.09	1 / 26	19.00	17.94	0.062	38.45	-20.51
	16-QAM	829.00	V	144	226	1.06	1 / 1	17.41	16.32	0.043	38.45	-22.13
	$\pi/2$ BPSK	829.00	V	144	226	1.05	1 / 23	19.49	18.39	0.069	38.45	-20.06
	$\pi/2$ BPSK	836.50	V	144	226	1.08	1 / 23	19.00	17.93	0.062	38.45	-20.53
	$\pi/2$ BPSK	844.00	V	144	226	1.10	1 / 1	18.86	17.81	0.060	38.45	-20.64
20 MHz	QPSK	829.00	V	144	226	1.05	1 / 23	19.40	18.30	0.068	38.45	-20.15
	QPSK	836.50	V	144	226	1.08	1 / 23	18.75	17.68	0.059	38.45	-20.78
	QPSK	844.00	V	144	226	1.10	1 / 1	18.95	17.90	0.062	38.45	-20.55
	16-QAM	829.00	V	144	226	1.05	1 / 23	17.43	16.33	0.043	38.45	-22.12
20 MHz	QPSK (CP-OFDM)	834.00	V	140	313	1.07	1 / 1	17.49	16.41	0.044	38.45	-22.04
	QPSK (Opposite Pol.)	834.00	H	114	297	1.07	1 / 53	19.21	18.13	0.065	38.45	-20.32
	QPSK (WCP)	834.00	V	148	246	1.07	1 / 53	17.97	16.89	0.049	38.45	-21.56

Table 7-19. ERP Data (NR Band n5) – Ant1

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.20	GSM850	H	109	315	22.48	1.05	21.38	0.137	38.45	-17.07
836.60	GSM850	H	112	297	21.69	1.08	20.62	0.115	38.45	-17.84
848.80	GSM850	H	112	297	21.08	1.10	20.03	0.101	38.45	-18.42
824.20	GSM850	V	145	242	16.86	1.05	15.76	0.038	38.45	-22.69
824.20	EDGE850	H	109	315	14.92	1.05	13.82	0.024	38.45	-24.63
824.20	GSM850 (WCP)	H	109	315	20.73	1.05	19.63	0.092	38.45	-18.82

Table 7-20. ERP Data (GPRS Cell) – Ant2

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	109	306	16.12	1.05	15.02	0.032	38.45	-23.43
836.60	WCDMA850	H	112	297	16.30	1.08	15.23	0.033	38.45	-23.23
846.60	WCDMA850	H	108	312	14.82	1.10	13.77	0.024	38.45	-24.68
836.60	WCDMA850	V	145	242	12.02	1.08	10.95	0.012	38.45	-27.51
836.60	WCDMA850 (WCP)	H	112	297	11.78	1.08	10.71	0.012	38.45	-27.75

Table 7-21. ERP Data (WCDMA Cell) – Ant2

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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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	829.00	H	111	311	1.06	1 / 49	15.96	14.86	0.031	38.45	-23.59
	QPSK	836.50	H	112	297	1.08	1 / 25	15.33	14.26	0.027	38.45	-24.20
	QPSK	844.00	H	100	306	1.09	1 / 25	15.72	14.67	0.029	38.45	-23.78
	16-QAM	844.00	H	100	306	1.09	1 / 25	13.85	12.80	0.019	38.45	-25.65
5 MHz	QPSK	826.50	H	111	311	1.05	1 / 12	15.89	14.79	0.030	38.45	-23.66
	QPSK	836.50	H	112	297	1.08	1 / 24	15.54	14.47	0.028	38.45	-23.99
	QPSK	846.50	H	100	306	1.10	1 / 24	15.83	14.78	0.030	38.45	-23.67
	16-QAM	846.50	H	100	306	1.10	1 / 24	13.99	12.94	0.020	38.45	-25.51
3 MHz	QPSK	825.50	H	111	311	1.05	1 / 7	15.76	14.66	0.029	38.45	-23.79
	QPSK	836.50	H	112	297	1.08	1 / 14	15.41	14.34	0.027	38.45	-24.12
	QPSK	847.50	H	100	306	1.10	1 / 0	15.75	14.70	0.029	38.45	-23.75
	16-QAM	847.50	H	100	306	1.10	1 / 0	13.88	12.83	0.019	38.45	-25.62
1.4 MHz	QPSK	824.70	H	111	311	1.05	1 / 5	15.63	14.52	0.028	38.45	-23.93
	QPSK	836.50	H	112	297	1.08	1 / 5	15.31	14.24	0.027	38.45	-24.22
	QPSK	848.30	H	100	306	1.10	1 / 5	15.44	14.40	0.028	38.45	-24.05
	16-QAM	836.50	H	112	297	1.08	1 / 5	14.77	13.70	0.023	38.45	-24.76
10 MHz	QPSK (Opposite Pol.)	831.50	V	162	346	1.06	1 / 74	14.15	13.06	0.020	38.45	-25.39
	QPSK (WCP)	831.50	H	111	311	1.06	1 / 74	13.50	12.41	0.017	38.45	-26.04

Table 7-22. ERP Data (LTE Band 5) – Ant2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	834.00	H	109	316	1.30	1 / 53	15.86	15.01	0.032	38.45	-23.44
	$\pi/2$ BPSK	836.50	H	110	312	1.31	1 / 53	15.90	15.06	0.032	38.45	-23.39
	$\pi/2$ BPSK	839.00	H	111	316	1.32	1 / 53	15.81	14.98	0.031	38.45	-23.47
	QPSK	834.00	H	109	316	1.30	1 / 53	15.71	14.86	0.031	38.45	-23.59
	QPSK	836.50	H	110	312	1.31	1 / 53	15.91	15.07	0.032	38.45	-23.38
	QPSK	839.00	H	111	316	1.32	1 / 53	15.77	14.94	0.031	38.45	-23.51
15 MHz	16-QAM	836.50	H	110	312	1.31	1 / 53	13.83	12.99	0.020	38.45	-25.46
	$\pi/2$ BPSK	831.50	H	109	316	1.29	1 / 77	16.06	15.20	0.033	38.45	-23.25
	$\pi/2$ BPSK	836.50	H	110	312	1.31	1 / 77	16.01	15.17	0.033	38.45	-23.28
	$\pi/2$ BPSK	841.50	H	111	316	1.33	1 / 77	15.89	15.07	0.032	38.45	-23.38
	QPSK	831.50	H	109	316	1.29	1 / 77	15.86	15.00	0.032	38.45	-23.45
	QPSK	836.50	H	110	312	1.31	1 / 77	16.03	15.19	0.033	38.45	-23.26
10 MHz	QPSK	841.50	H	111	316	1.33	1 / 77	15.95	15.13	0.033	38.45	-23.32
	16-QAM	836.50	H	110	312	1.31	1 / 77	14.02	13.18	0.021	38.45	-25.27
	$\pi/2$ BPSK	829.00	H	109	316	1.27	1 / 50	16.01	15.14	0.033	38.45	-23.31
	$\pi/2$ BPSK	836.50	H	110	312	1.31	1 / 50	15.91	15.07	0.032	38.45	-23.38
	$\pi/2$ BPSK	844.00	H	111	316	1.35	1 / 50	15.82	15.01	0.032	38.45	-23.44
	QPSK	829.00	H	109	316	1.27	1 / 50	15.79	14.92	0.031	38.45	-23.53
5 MHz	QPSK	836.50	H	110	312	1.31	1 / 50	16.00	15.16	0.033	38.45	-23.29
	QPSK	844.00	H	111	316	1.35	1 / 50	15.74	14.93	0.031	38.45	-23.52
	16-QAM	836.50	H	110	312	1.31	1 / 50	13.99	13.15	0.021	38.45	-25.30
	$\pi/2$ BPSK	829.00	H	109	316	1.26	1 / 23	15.89	15.00	0.032	38.45	-23.45
	$\pi/2$ BPSK	836.50	H	110	312	1.31	1 / 23	15.80	14.96	0.031	38.45	-23.49
	$\pi/2$ BPSK	844.00	H	111	316	1.36	1 / 23	16.03	15.24	0.033	38.45	-23.21
20 MHz	QPSK	829.00	H	109	316	1.26	1 / 23	15.60	14.71	0.030	38.45	-23.74
	QPSK	836.50	H	110	312	1.31	1 / 23	15.80	14.96	0.031	38.45	-23.49
	QPSK	844.00	H	111	316	1.36	1 / 23	15.83	15.04	0.032	38.45	-23.41
	16-QAM	844.00	H	111	316	1.36	1 / 23	13.99	13.20	0.021	38.45	-25.25
	QPSK (CP-OFDM)	836.50	H	110	312	0.00	1 / 53	14.32	12.17	0.016	38.45	-26.28
	QPSK (Opposite Pol.)	836.50	V	162	346	0.00	1 / 53	13.95	11.80	0.015	38.45	-26.65
20 MHz	QPSK (WCP)	836.50	H	110	312	0.00	1 / 53	15.24	13.09	0.020	38.45	-25.36

Table 7-23. ERP Data (NR Band n5) – 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.

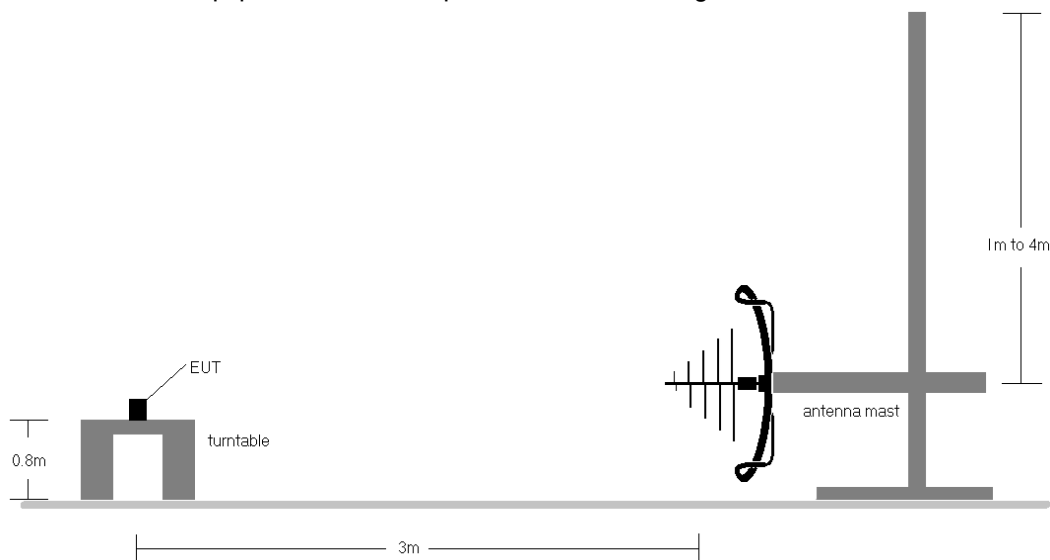


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

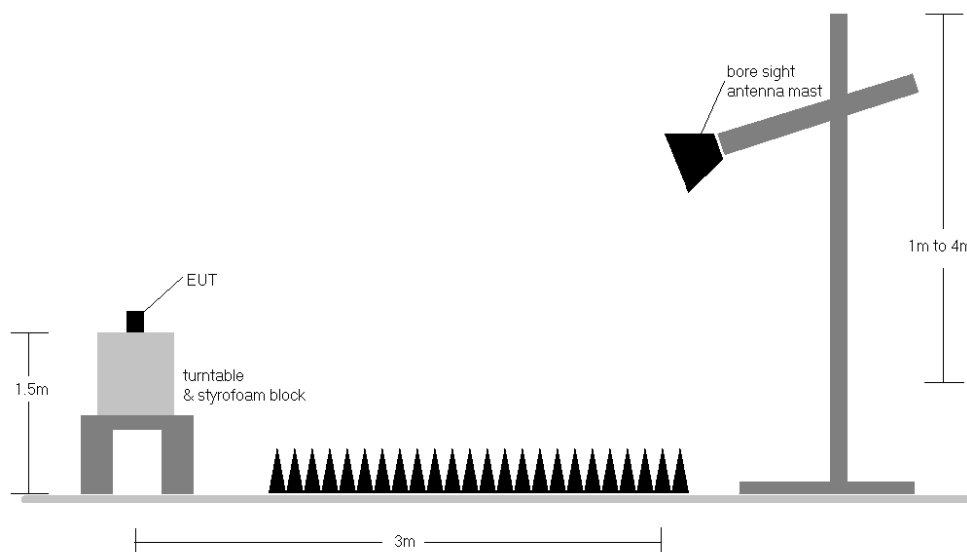


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

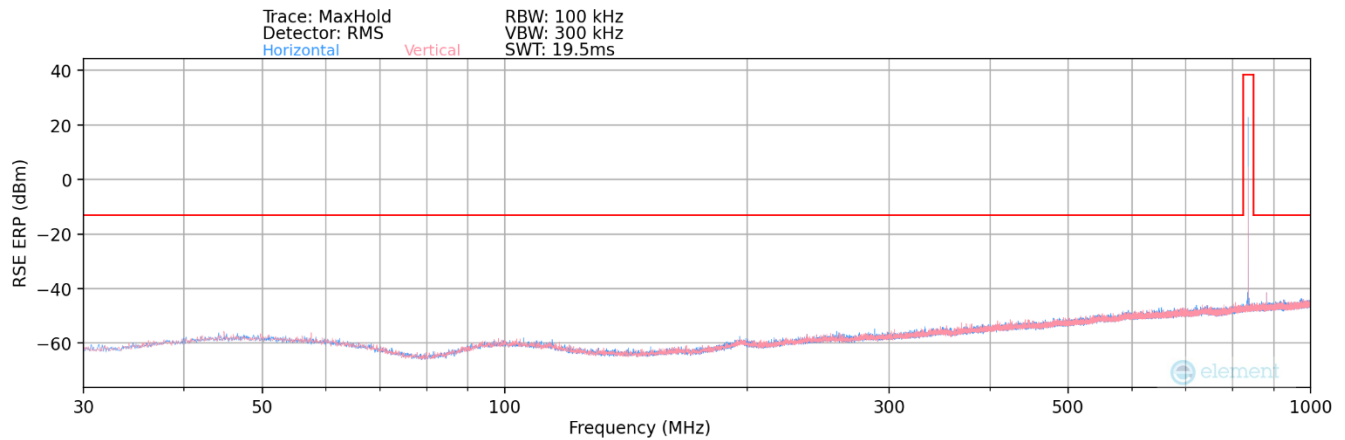
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Test Notes

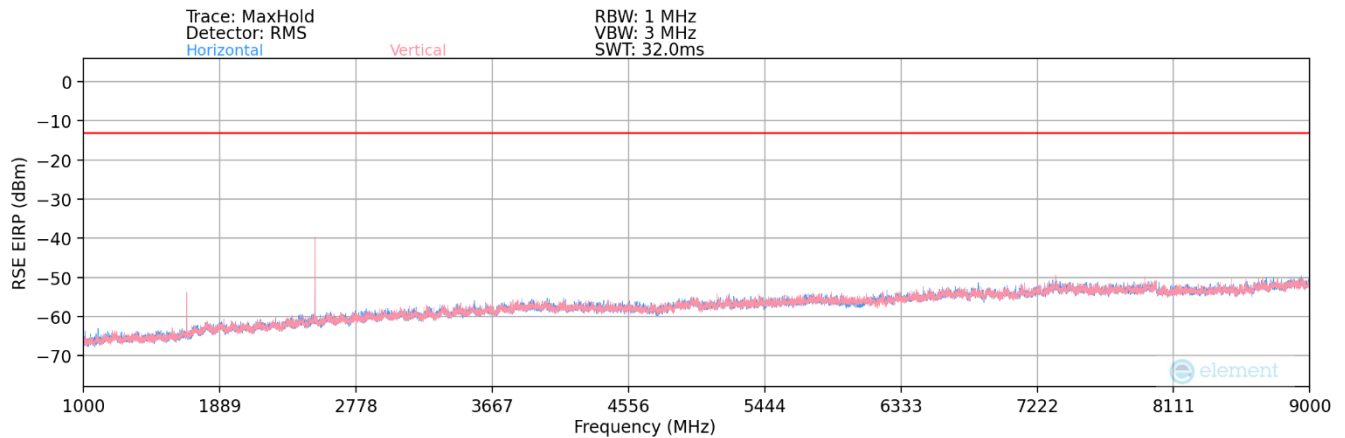
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 10) 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.
- 11) 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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GP RS Cell – Ant1



Plot 7-133. Radiated Spurious Plot (GP RS Cell) – Ant1



Plot 7-134. Radiated Spurious Plot (GP RS Cell) – Ant1

Channel:	190
Frequency (MHz):	836.6

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]
612.00	H	-	-	-85.97	26.95	47.98	-49.43	-13.00	-36.43
708.90	H	-	-	-85.96	28.10	49.14	-48.27	-13.00	-35.27
933.50	H	-	-	-87.48	30.87	50.39	-47.02	-13.00	-34.02

Table 7-24. Radiated Spurious Data (GP RS Cell) – Ant1

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Channel:	128
Frequency (MHz):	824.2

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]
1648.40	H	147	325	-56.89	-7.66	42.45	-52.81	-13.00	-39.81
2472.60	H	153	315	-53.54	-3.98	49.48	-45.77	-13.00	-32.77
3296.80	H	-	-	-76.48	-0.98	29.54	-65.71	-13.00	-52.71
4121.00	H	162	331	-73.80	1.09	34.29	-60.97	-13.00	-47.97
4945.20	H	-	-	-76.59	1.94	32.35	-62.91	-13.00	-49.91
5769.40	H	-	-	-76.77	3.99	34.22	-61.04	-13.00	-48.04

Table 7-25. Radiated Spurious Data (GPRS Cell – Low Channel) – Ant1

Channel:	190
Frequency (MHz):	836.6

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]
1673.20	H	130	352	-57.53	-7.37	42.10	-53.15	-13.00	-40.15
2509.80	H	160	289	-55.45	-3.74	47.81	-47.44	-13.00	-34.44
3346.40	H	-	-	-75.56	-0.39	31.05	-64.20	-13.00	-51.20
4183.00	H	-	-	-75.43	1.11	32.68	-62.58	-13.00	-49.58
5019.60	H	-	-	-76.35	2.27	32.92	-62.34	-13.00	-49.34
5856.20	H	-	-	-76.94	3.50	33.56	-61.70	-13.00	-48.70

Table 7-26. Radiated Spurious Data (GPRS Cell – Mid Channel) – Ant1

Channel:	251
Frequency (MHz):	848.8

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]
1697.60	H	174	341	-51.89	-7.10	48.01	-47.24	-13.00	-34.24
2546.40	H	154	279	-60.01	-3.17	43.82	-51.44	-13.00	-38.44
3395.20	H	-	-	-76.65	-0.34	30.01	-65.25	-13.00	-52.25
4244.00	H	-	-	-75.76	0.88	32.12	-63.13	-13.00	-50.13
5092.80	H	-	-	-76.25	2.85	33.60	-61.66	-13.00	-48.66
5941.60	H	-	-	-77.18	3.46	33.28	-61.98	-13.00	-48.98

Table 7-27. Radiated Spurious Data (GPRS Cell – High Channel) – Ant1

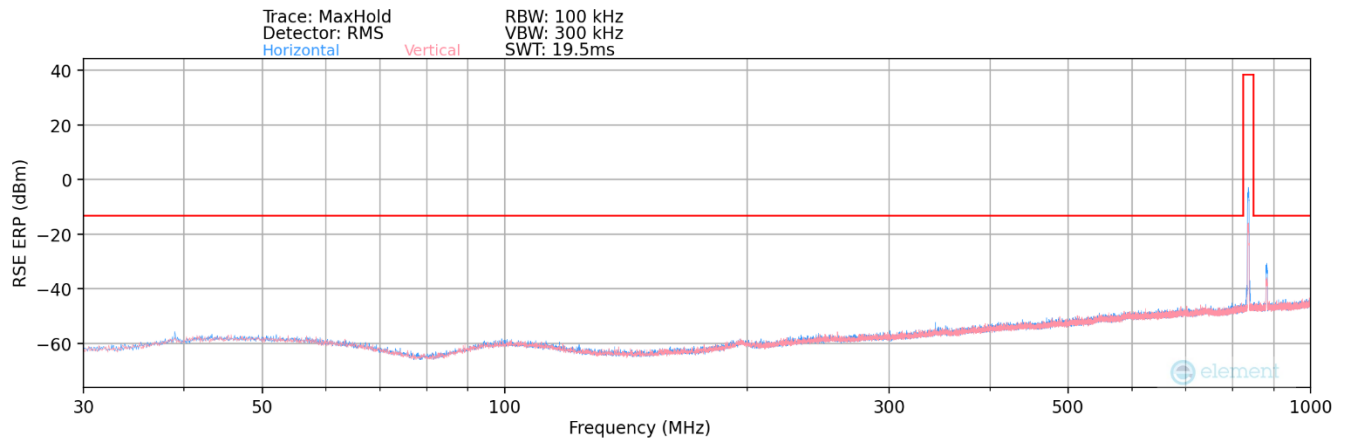
Channel:	190
Frequency (MHz):	836.6

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]
1673.20	H	177	343	-59.78	-7.66	39.56	-55.70	-13.00	-42.70
2509.80	H	172	293	-56.12	-3.98	46.90	-48.35	-13.00	-35.35
3346.40	H	-	-	-75.45	-0.98	30.57	-64.68	-13.00	-51.68
4183.00	H	-	-	-75.63	1.09	32.46	-62.80	-13.00	-49.80
5019.60	H	-	-	-76.52	1.94	32.42	-62.84	-13.00	-49.84
5856.20	H	-	-	-77.10	3.99	33.89	-61.37	-13.00	-48.37

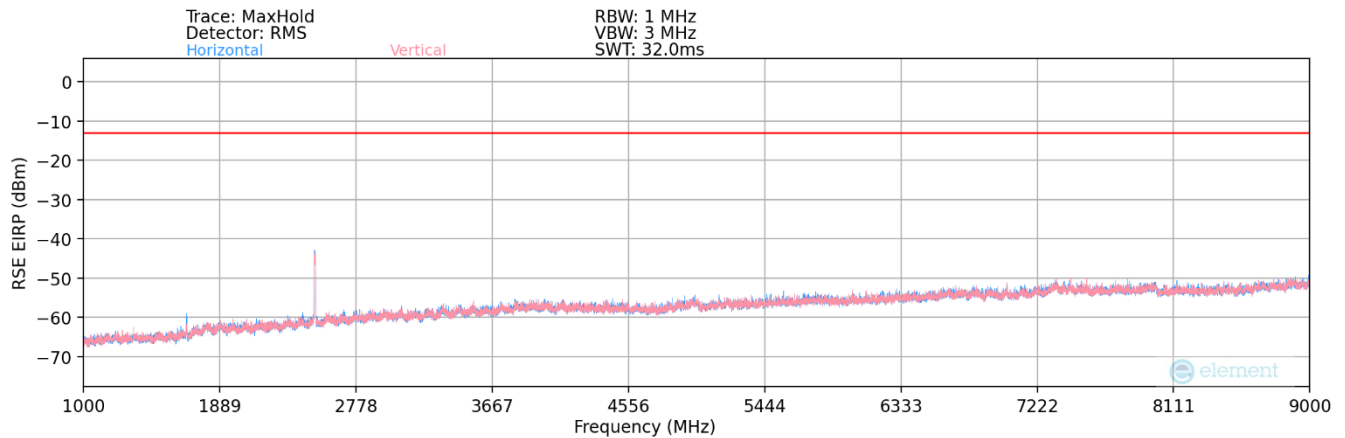
Table 7-28. Radiated Spurious Data (GPRS Cell – Mid Channel) – Ant1 – Wireless Charging Pad

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WCDMA Cell – Ant1



Plot 7-135. Radiated Spurious Plot (WCDMA Cell) – Ant1



Plot 7-136. Radiated Spurious Plot (WCDMA Cell) – Ant1

Channel:	4183
Frequency (MHz):	836.6

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]
515.00	H	-	-	-86.47	25.00	45.53	-51.88	-13.00	-38.88
632.50	H	-	-	-85.77	26.93	48.16	-49.25	-13.00	-36.25
956.00	H	-	-	-87.19	30.97	50.78	-46.63	-13.00	-33.63

Table 7-29. Radiated Spurious Data (WCDMA Cell) – Ant1

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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Channel:	4132
Frequency (MHz):	826.4

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]
1652.80	H	156	242	-67.27	-7.60	32.13	-63.12	-13.00	-50.12
2479.20	H	160	227	-55.29	-3.86	47.85	-47.41	-13.00	-34.41
3305.60	H	-	-	-75.21	-0.76	31.03	-64.22	-13.00	-51.22
4132.00	H	-	-	-74.87	1.31	33.44	-61.82	-13.00	-48.82
4958.40	H	-	-	-75.21	2.11	33.90	-61.36	-13.00	-48.36
5784.80	H	-	-	-76.25	3.92	34.67	-60.59	-13.00	-47.59

Table 7-30. Radiated Spurious Data (WCDMA Cell – Low Channel) – Ant1

Channel:	4183
Frequency (MHz):	836.6

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]
1673.20	H	151	245	-66.95	-7.37	32.68	-62.57	-13.00	-49.57
2509.80	H	157	236	-56.48	-3.74	46.78	-48.47	-13.00	-35.47
3346.40	H	-	-	-74.28	-0.39	32.33	-62.92	-13.00	-49.92
4183.00	H	-	-	-75.43	1.11	32.68	-62.58	-13.00	-49.58
5019.60	H	-	-	-75.32	2.27	33.95	-61.31	-13.00	-48.31
5856.20	H	-	-	-76.91	3.50	33.59	-61.67	-13.00	-48.67

Table 7-31. Radiated Spurious Data (WCDMA Cell – Mid Channel) – Ant1

Channel:	4233
Frequency (MHz):	846.6

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]
1693.20	H	156	232	-70.13	-7.18	29.69	-65.57	-13.00	-52.57
2539.80	H	148	223	-58.18	-3.10	45.72	-49.54	-13.00	-36.54
3386.40	H	-	-	-75.53	-0.29	31.18	-64.08	-13.00	-51.08
4233.00	H	-	-	-74.71	1.02	33.31	-61.94	-13.00	-48.94
5079.60	H	-	-	-75.05	2.23	34.18	-61.08	-13.00	-48.08
5926.20	H	-	-	-75.90	3.32	34.42	-60.84	-13.00	-47.84

Table 7-32. Radiated Spurious Data (WCDMA Cell – High Channel) – Ant1

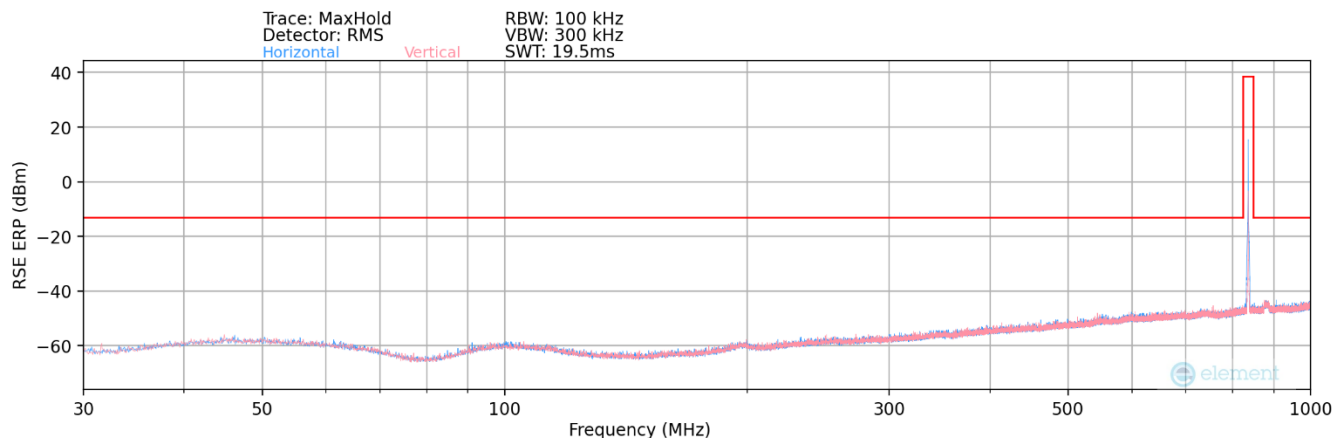
Channel:	4132
Frequency (MHz):	826.4

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]
1652.80	H	152	227	-69.85	-7.60	29.55	-65.70	-13.00	-52.70
2479.20	H	163	221	-64.55	-3.86	38.59	-56.67	-13.00	-43.67
3305.60	H	-	-	-77.12	-0.76	29.12	-66.13	-13.00	-53.13
4132.00	H	-	-	-76.41	1.31	31.90	-63.36	-13.00	-50.36
4958.40	H	-	-	-76.75	2.11	32.36	-62.90	-13.00	-49.90
5784.80	H	-	-	-77.68	3.92	33.24	-62.02	-13.00	-49.02

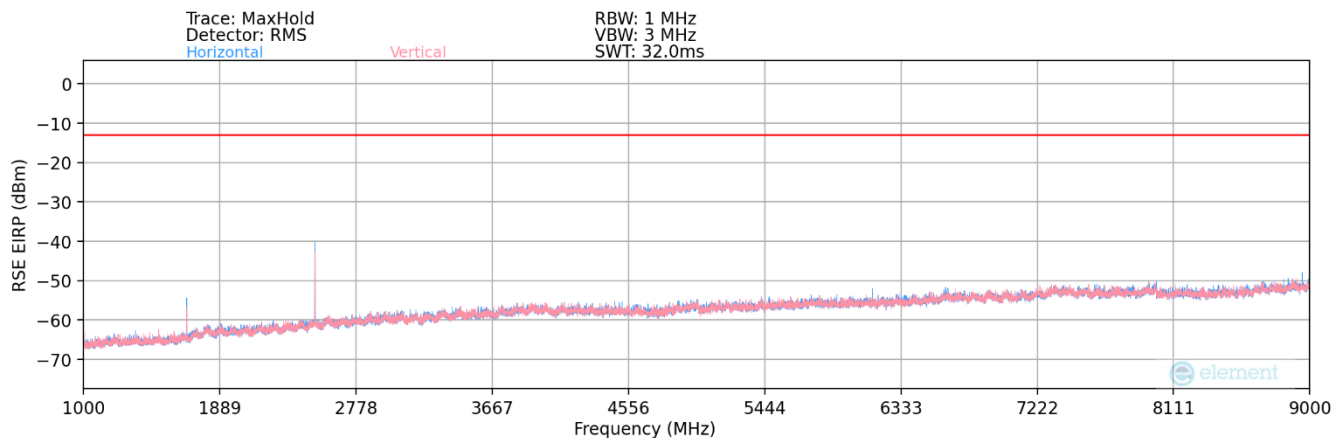
Table 7-33. Radiated Spurious Data (WCDMA Cell – Low Channel) – Ant1 – Wireless Charging Pad

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 114 of 137

LTE Band 5 – Ant1



Plot 7-137. Radiated Spurious Plot (LTE Band 5) – Ant1



Plot 7-138. Radiated Spurious Plot (LTE Band 5) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25

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]
612.00	H	-	-	-85.97	26.95	47.98	-49.43	-13.00	-36.43
708.90	H	-	-	-85.96	28.10	49.14	-48.27	-13.00	-35.27
933.50	H	-	-	-87.48	30.87	50.39	-47.02	-13.00	-34.02

Table 7-34. Radiated Spurious Data (LTE Band 5) – Ant1

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 115 of 137

Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1 / 25

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]
1658.00	H	122	357	-64.76	-7.47	34.77	-60.49	-13.00	-47.49
2487.00	H	159	256	-55.89	-3.83	47.28	-47.97	-13.00	-34.97
3316.00	H	-	-	-76.02	-0.50	30.48	-64.77	-13.00	-51.77
4145.00	H	-	-	-76.75	1.28	31.53	-63.73	-13.00	-50.73
4974.00	H	-	-	-76.34	2.30	32.96	-62.30	-13.00	-49.30
5803.00	H	-	-	-77.50	3.64	33.14	-62.12	-13.00	-49.12

Table 7-35. Radiated Spurious Data (LTE Band 5 – Low Channel) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	836.5
RB / Offset:	1 / 25

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]
1673.00	H	127	339	-65.56	-7.37	34.07	-61.19	-13.00	-48.19
2509.50	H	156	237	-54.43	-3.74	48.83	-46.43	-13.00	-33.43
3346.00	H	-	-	-75.60	-0.39	31.01	-64.25	-13.00	-51.25
4182.50	H	-	-	-76.23	1.11	31.88	-63.38	-13.00	-50.38
5019.00	H	-	-	-76.35	2.26	32.91	-62.35	-13.00	-49.35
5855.50	H	-	-	-77.02	3.51	33.49	-61.77	-13.00	-48.77

Table 7-36. Radiated Spurious Data (LTE Band 5 – Mid Channel) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	844
RB / Offset:	1 / 25

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]
1688.00	H	116	347	-68.02	-7.28	31.70	-63.55	-13.00	-50.55
2532.00	H	156	246	-56.63	-3.43	46.94	-48.31	-13.00	-35.31
3376.00	H	-	-	-76.13	0.02	30.89	-64.37	-13.00	-51.37
4220.00	H	-	-	-75.84	1.05	32.21	-63.05	-13.00	-50.05
5064.00	H	-	-	-76.51	2.46	32.95	-62.31	-13.00	-49.31
5908.00	H	-	-	-76.88	3.16	33.28	-61.98	-13.00	-48.98

Table 7-37. Radiated Spurious Data (LTE Band 5 – High Channel) – Ant1

FCC ID: A3LSMF776JPN	PART 22 MEASUREMENT REPORT	Test Dates: 3/16/2026 - 5/22/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2604240033-01-R1.A3L		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 116 of 137