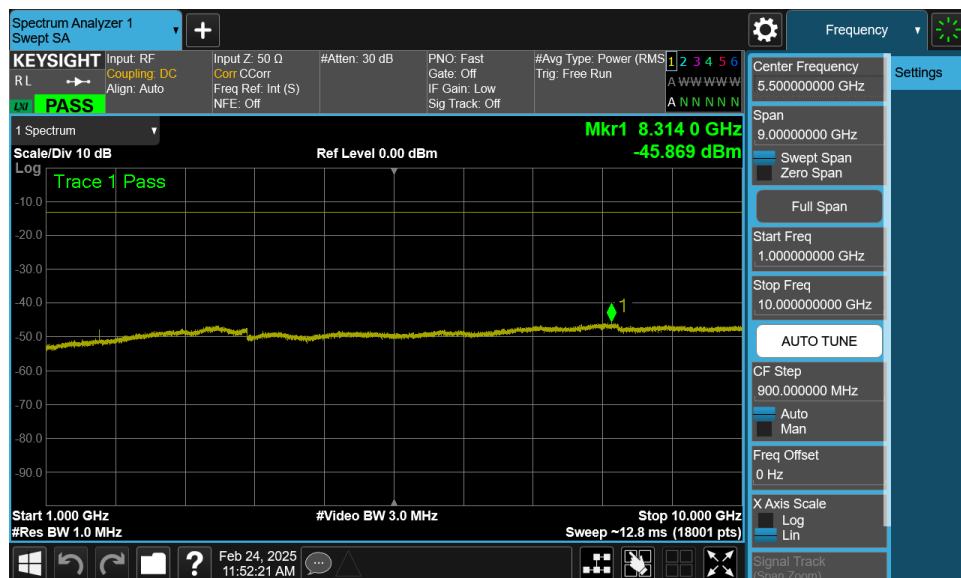
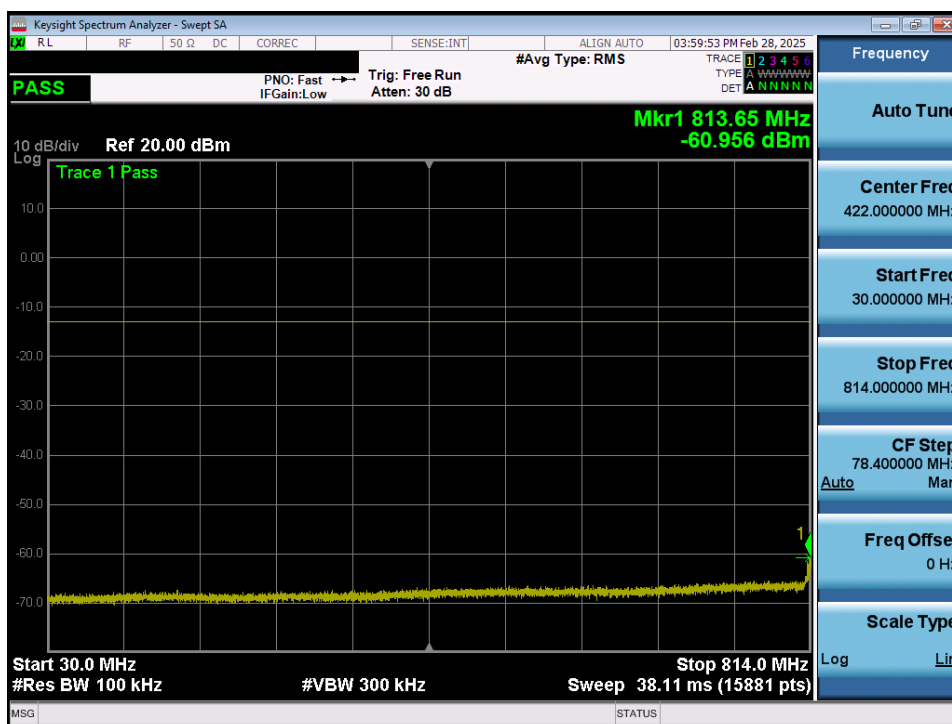




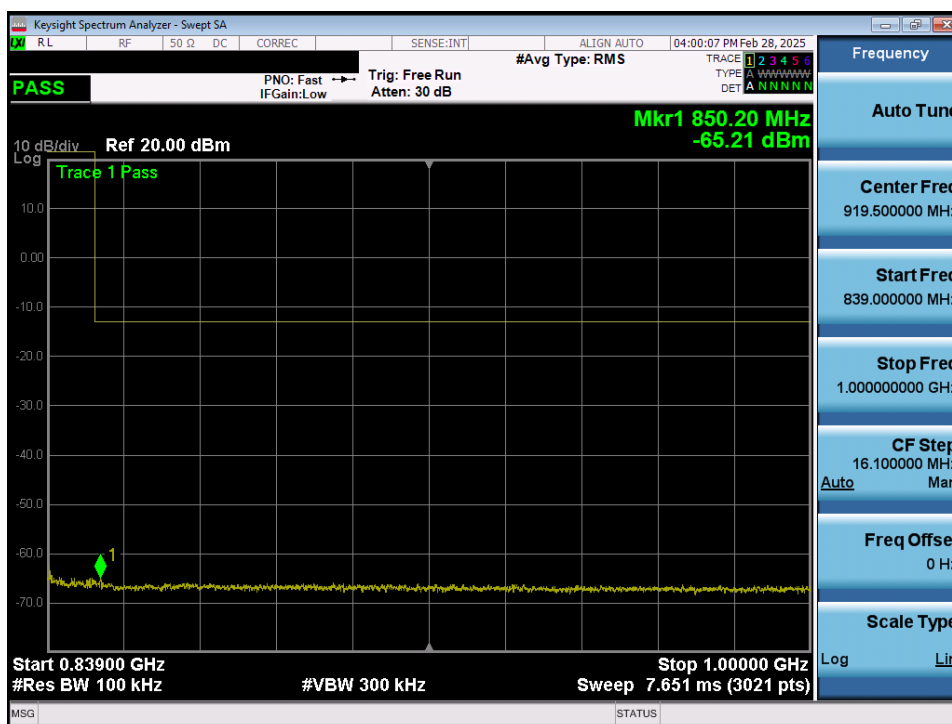
Plot 7-59. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - High Channel – Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 49 of 129

NR Band n5 – Ant1

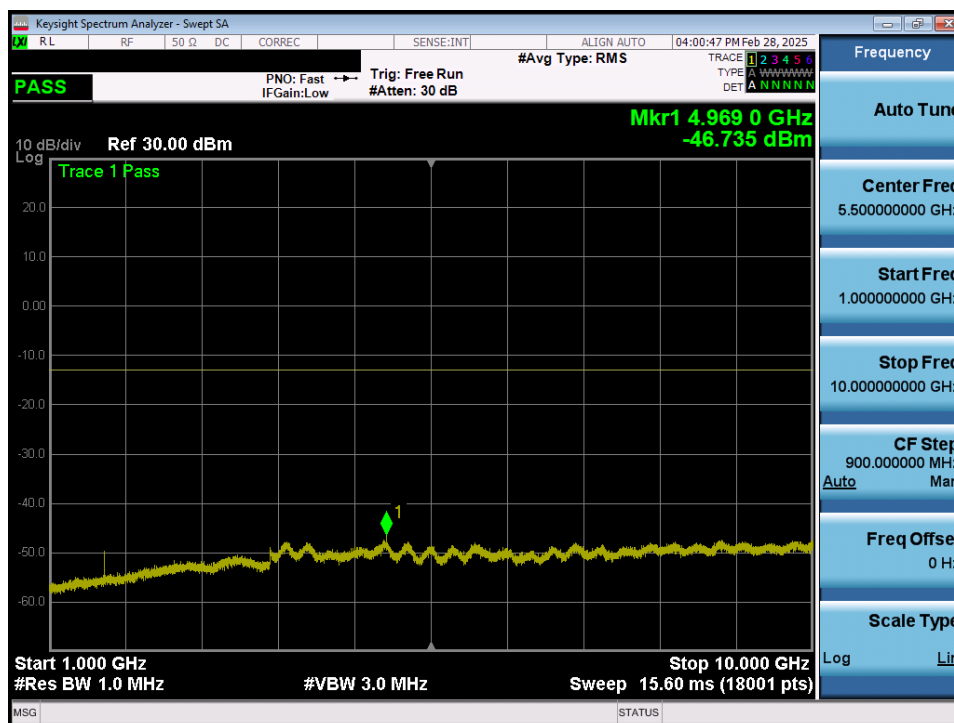


Plot 7-60. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)



Plot 7-61. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 50 of 129



Plot 7-62. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Low Channel - Ant1)

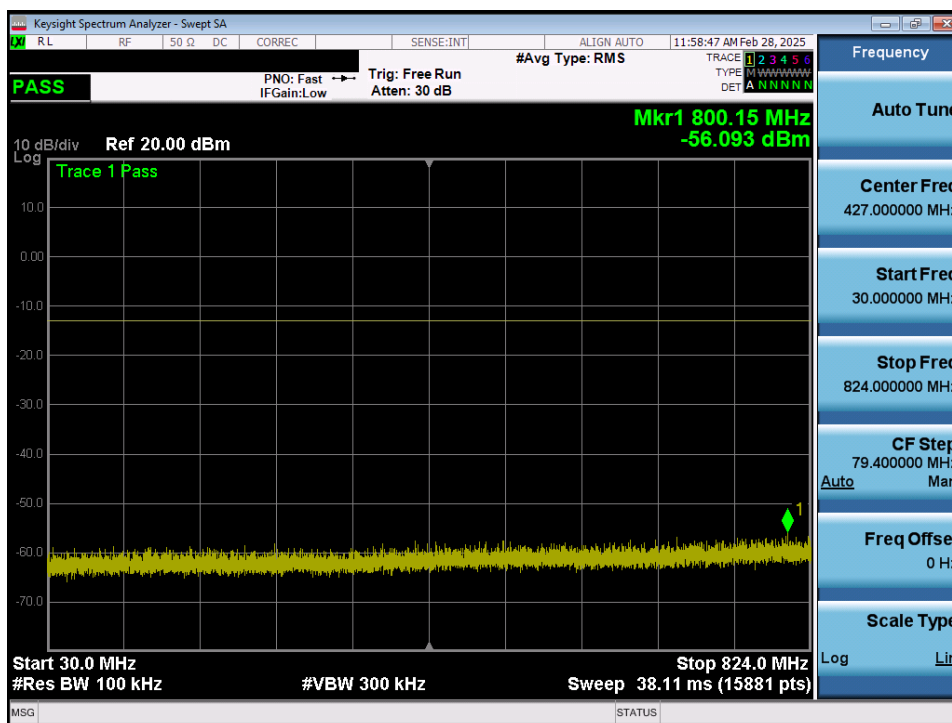
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 51 of 129

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-Cell	250kHz	Low	30.0 - 823.0	-38.82	-13.0	-25.82
		Low	849.0 - 1000.0	-56.26	-13.0	-43.26
		Low	1000.0 - 10000.0	-29.68	-13.0	-16.68
		Mid	30.0 - 824.0	-53.55	-13.0	-40.55
		Mid	849.0 - 1000.0	-53.89	-13.0	-40.89
		Mid	1000.0 - 10000.0	-35.46	-13.0	-22.46
		High	30.0 - 824.0	-56.09	-13.0	-43.09
		High	850.0 - 1000.0	-36.04	-13.0	-23.04
		High	1000.0 - 10000.0	-29.04	-13.0	-16.03
WCDMA-Cell	5MHz	Low	30.0 - 823.0	-25.38	-13.0	-12.38
		Low	849.0 - 1000.0	-65.43	-13.0	-52.43
		Low	1000.0 - 10000.0	-37.44	-13.0	-24.44
		Mid	30.0 - 824.0	-55.63	-13.0	-42.63
		Mid	849.0 - 1000.0	-56.19	-13.0	-43.19
		Mid	1000.0 - 10000.0	-37.51	-13.0	-24.51
		High	30.0 - 824.0	-64.53	-13.0	-51.53
		High	850.0 - 1000.0	-29.88	-13.0	-16.88
		High	1000.0 - 10000.0	-37.61	-13.0	-24.60
LTE-B26-5	10MHz	Low	30.0 - 823.0	-58.69	-13.0	-45.69
		Low	849.0 - 1000.0	-59.81	-13.0	-46.81
		Low	1000.0 - 10000.0	-45.95	-13.0	-32.94
		Mid	30.0 - 824.0	-59.49	-13.0	-46.49
		Mid	849.0 - 1000.0	-59.72	-13.0	-46.72
		Mid	1000.0 - 10000.0	-45.80	-13.0	-32.80
		High	30.0 - 824.0	-59.48	-13.0	-46.48
		High	850.0 - 1000.0	-59.27	-13.0	-46.27
		High	1000.0 - 10000.0	-46.18	-13.0	-33.18
NR-n5	20MHz	Low	30.0 - 824.0	-61.39	-13.0	-48.39
		Low	849.0 - 1000.0	-65.74	-13.0	-52.74
		Low	1000.0 - 10000.0	-47.65	-13.0	-34.65
		Mid	30.0 - 824.0	-65.06	-13.0	-52.06
		Mid	849.0 - 1000.0	-65.77	-13.0	-52.77
		Mid	1000.0 - 10000.0	-45.45	-13.0	-32.45
		High	30.0 - 824.0	-65.40	-13.0	-52.40
		High	849.0 - 1000.0	-63.31	-13.0	-50.31
		High	1000.0 - 10000.0	-45.60	-13.0	-32.60

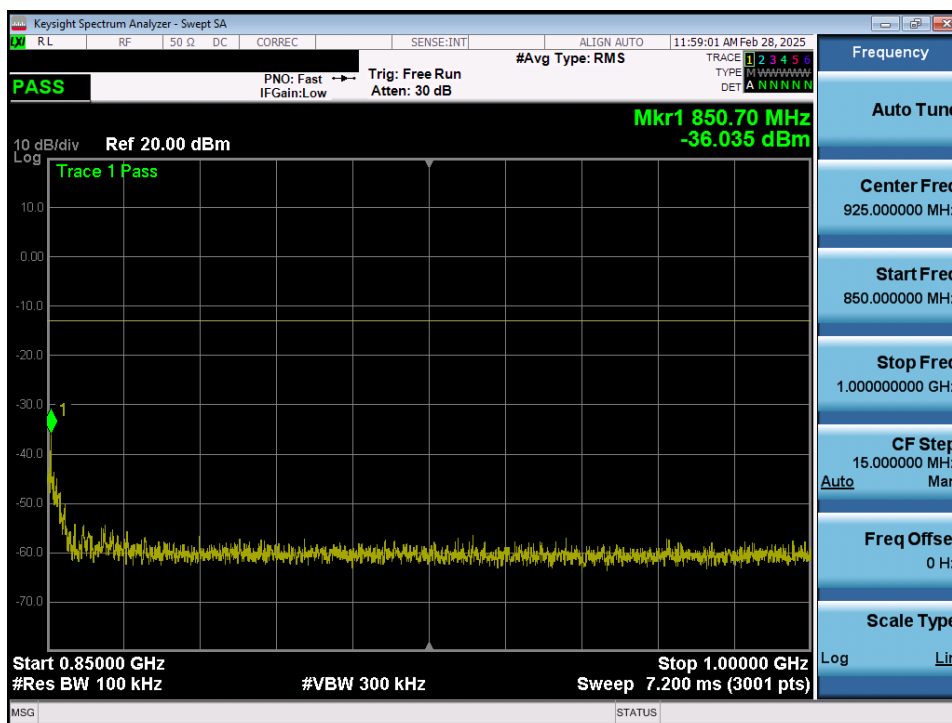
Table 7-5. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 52 of 129

GSM/GPRS Cell – Ant2

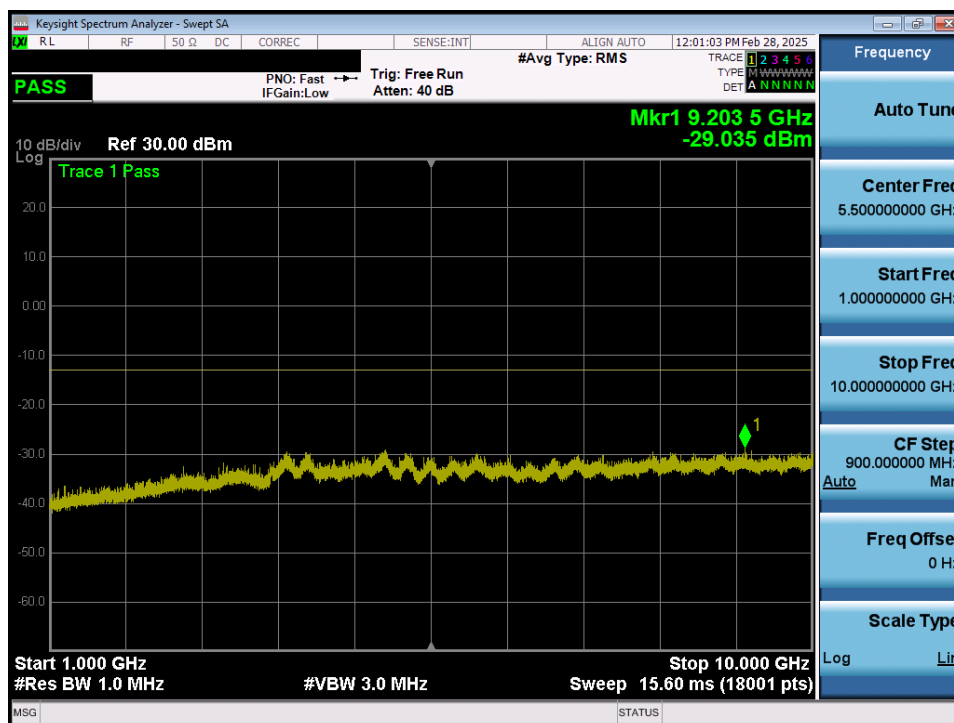


Plot 7-63. Conducted Spurious Plot (GPRS Ch. 251 – Ant2)



Plot 7-64. Conducted Spurious Plot (GPRS Ch. 251 – Ant2)

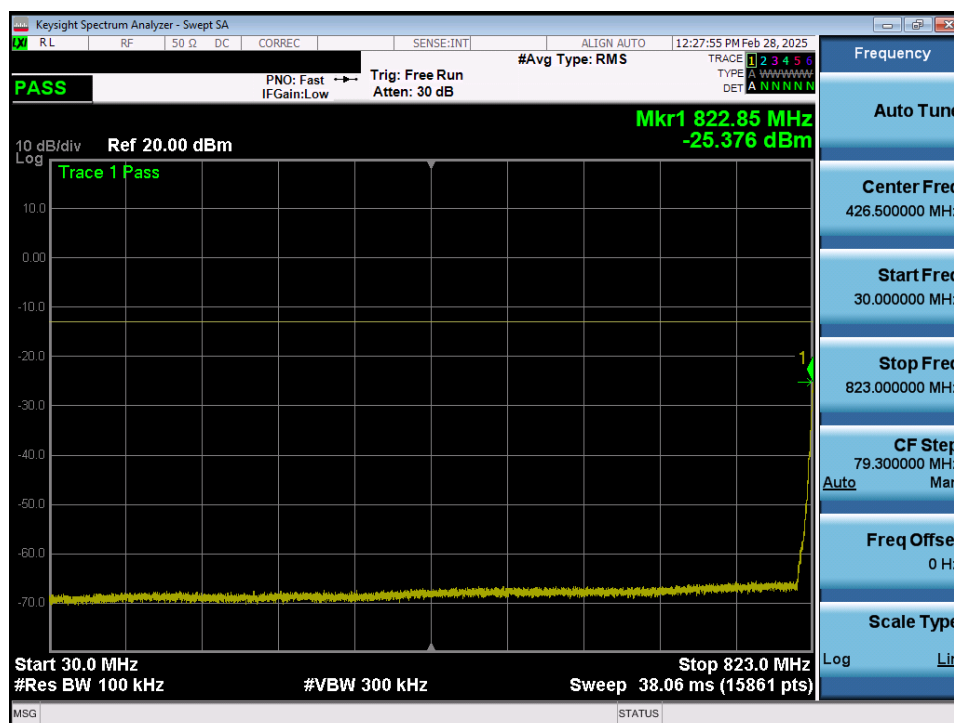
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 53 of 129



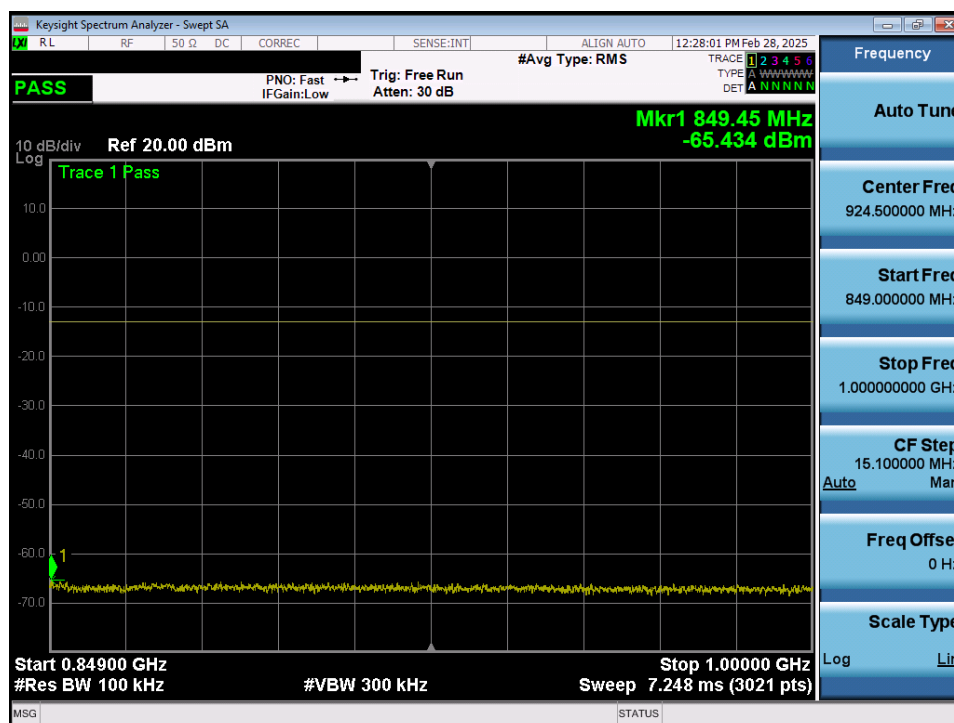
Plot 7-65. Conducted Spurious Plot (GPRS Ch. 251 – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 54 of 129

WCDMA Cell – Ant2

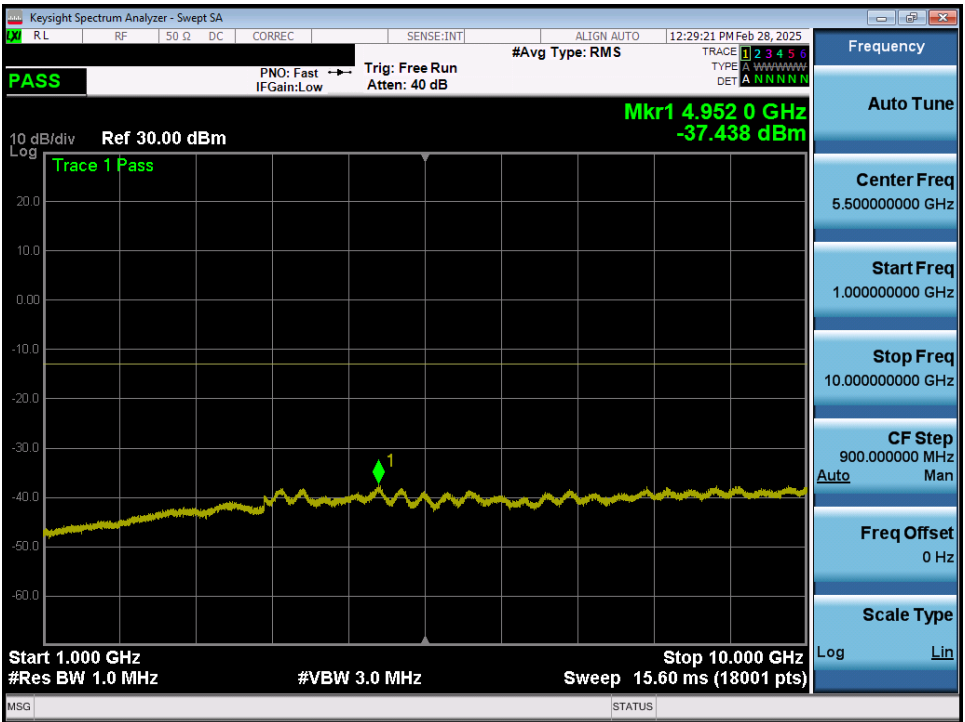


Plot 7-66. Conducted Spurious Plot (WCDMA Ch. 4132 – Ant2)



Plot 7-67. Conducted Spurious Plot (WCDMA Ch. 4132 – Ant2)

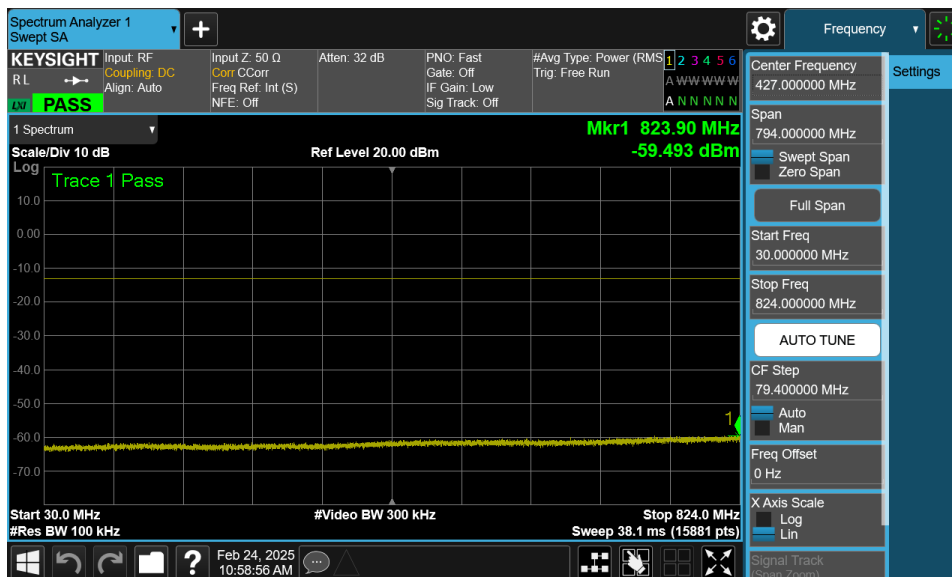
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 55 of 129



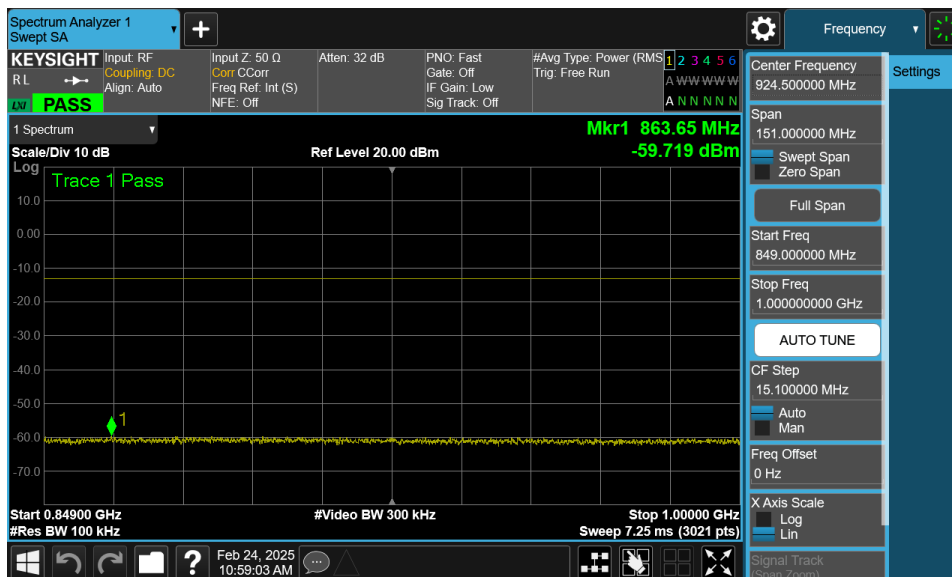
Plot 7-68. Conducted Spurious Plot (WCDMA Ch. 4132 – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 56 of 129

LTE Band 26/5 – Ant2



Plot 7-69. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK – 1 RB - Mid Channel – Ant2)



Plot 7-70. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel – Ant2)

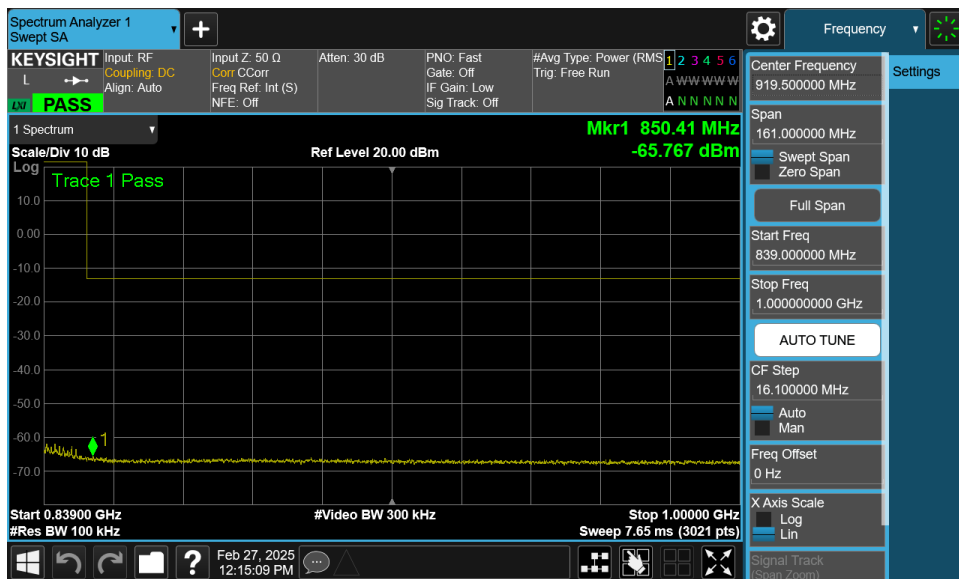
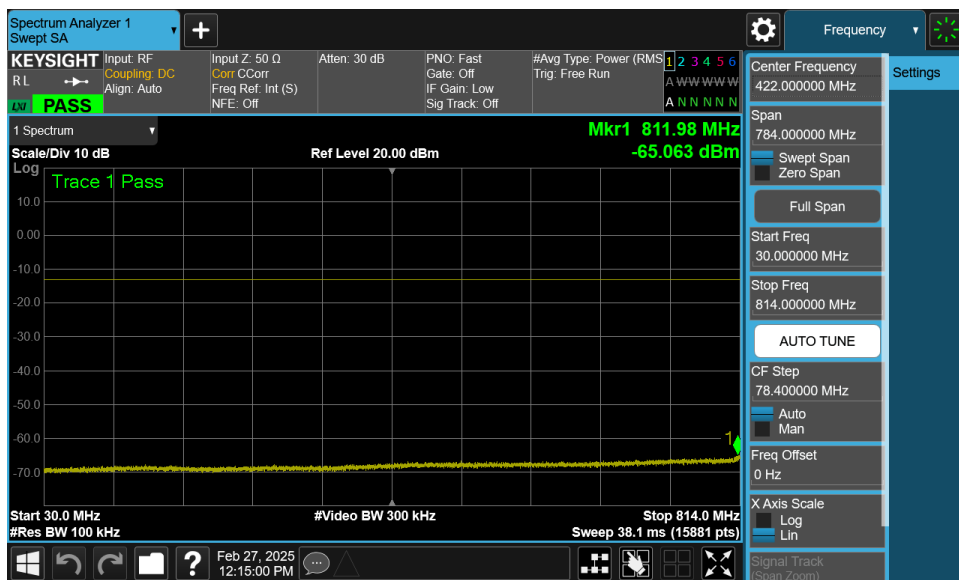
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 57 of 129



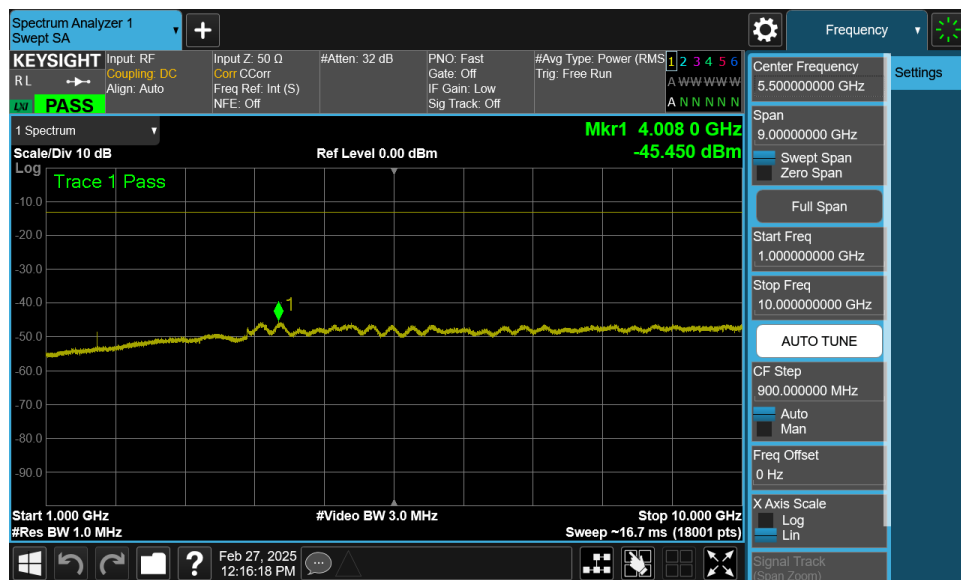
Plot 7-71. Conducted Spurious Plot (LTE Band 26/5 - 10MHz QPSK - 1 RB - Mid Channel – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 58 of 129

NR Band n5 – Ant2



FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 59 of 129



Plot 7-74. Conducted Spurious Plot (NR Band n5 - 20.0MHz - 1 RB - Mid Channel - Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 60 of 129

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. $RBW \geq 1\%$ of the emission bandwidth
4. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

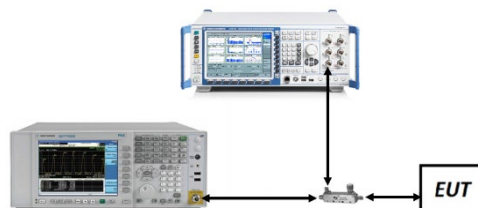


Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 61 of 129

Test Notes

1. Per 22.917(b) and RSS-132(5.5), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. 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.

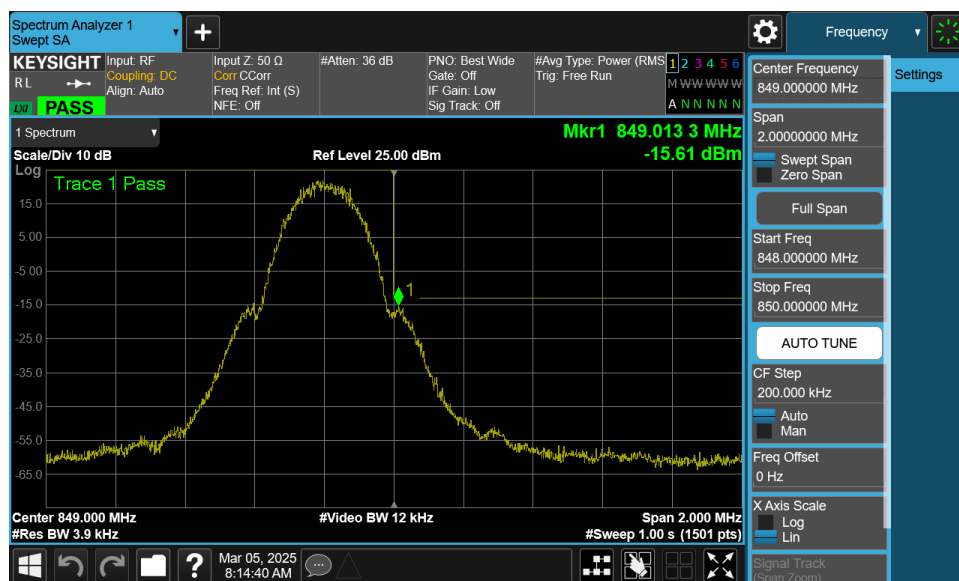
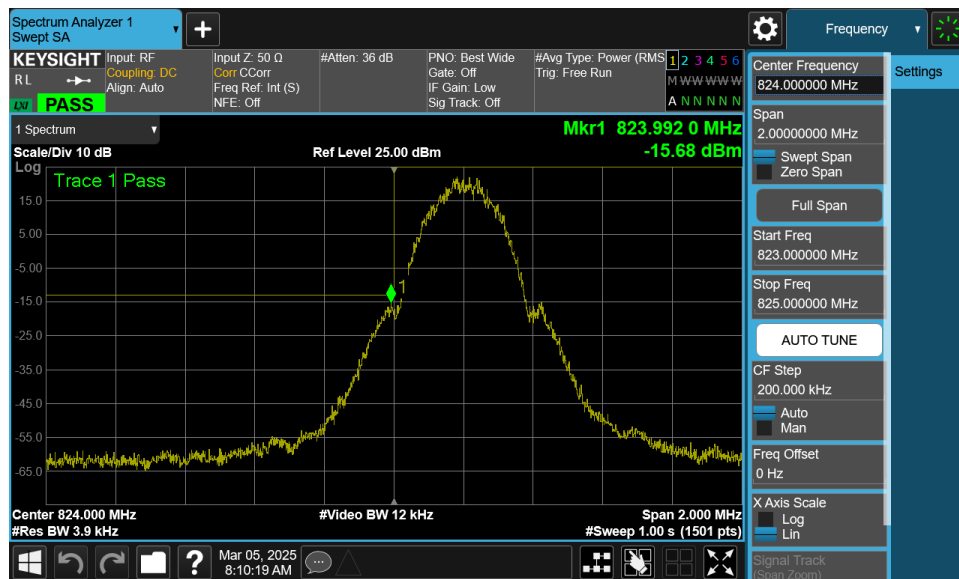
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 62 of 129

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-Cell	250kHz	Low	Band Edge	-15.68	-13	-2.68
		High	Band Edge	-15.61	-13	-2.61
WCDMA-Cell	5MHz	Low	Band Edge	-20.42	-13	-7.42
		High	Band Edge	-21.33	-13	-8.33
LTE-B26-5	15 MHz	Low	Band Edge	-29.39	-13	-16.39
		High	Band Edge	-30.32	-13	-17.32
	10 MHz	Low	Band Edge	-29.13	-13	-16.13
		High	Band Edge	-28.91	-13	-15.91
	5 MHz	Low	Band Edge	-22.03	-13	-9.03
		High	Band Edge	-21.77	-13	-8.77
	3 MHz	Low	Band Edge	-18.37	-13	-5.37
		High	Band Edge	-18.58	-13	-5.58
	1.4 MHz	Low	Band Edge	-15.96	-13	-2.96
		High	Band Edge	-14.12	-13	-1.12
NR-n5	20 MHz	Low	Band Edge	-30.18	-13	-17.18
		High	Band Edge	-27.72	-13	-14.72
	15 MHz	Low	Band Edge	-29.57	-13	-16.57
		High	Band Edge	-27.27	-13	-14.27
	10 MHz	Low	Band Edge	-27.50	-13	-14.50
		High	Band Edge	-27.87	-13	-14.87
	5 MHz	Low	Band Edge	-20.74	-13	-7.74
		High	Band Edge	-19.61	-13	-6.61

Table 7-6. Conducted Band Edge Results – Ant1

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 63 of 129

GSM/GPRS Cell – Ant1



FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 64 of 129

WCDMA Cell – Ant1



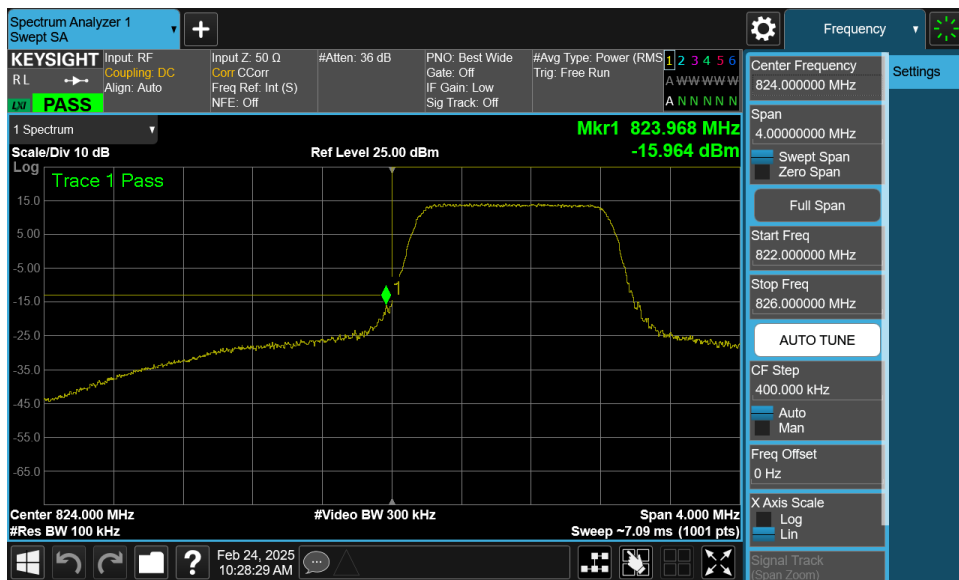
Plot 7-77. Lower Band Edge Plot (WCDMA Cell – Ch. 4132 – Ant1)



Plot 7-78. Upper Band Edge Plot (WCDMA Cell – Ch. 4233 – Ant1)

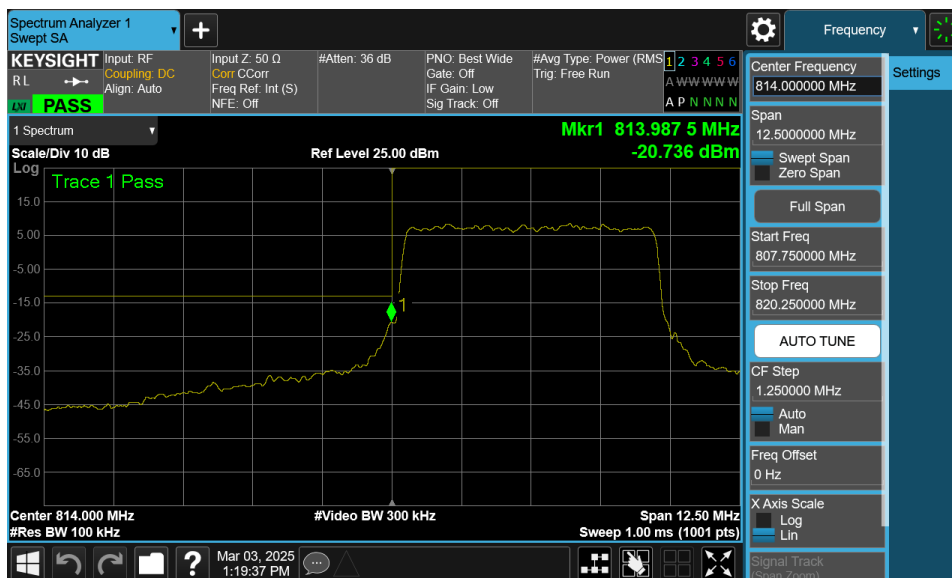
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 65 of 129

LTE Band 26/5 – Ant1



FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 66 of 129

NR Band n5 – Ant1



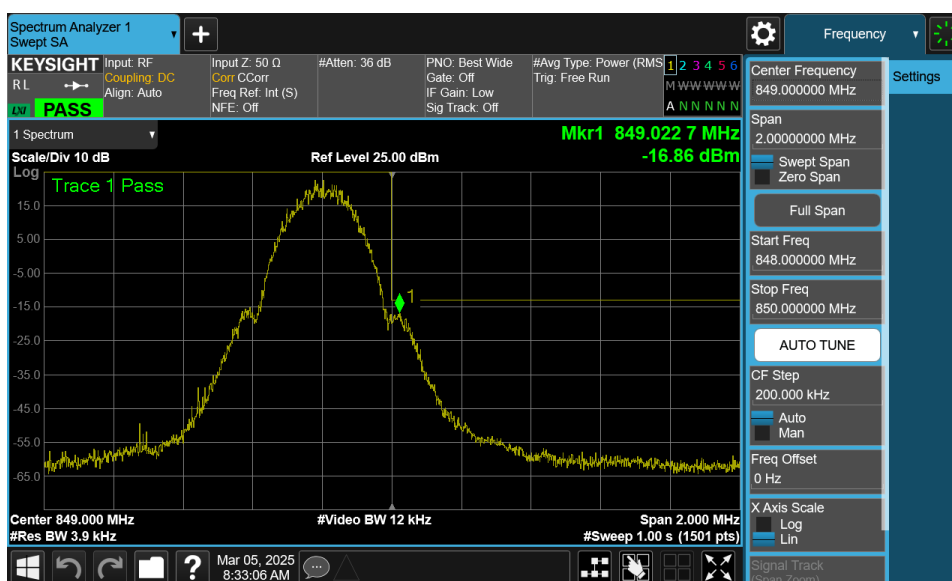
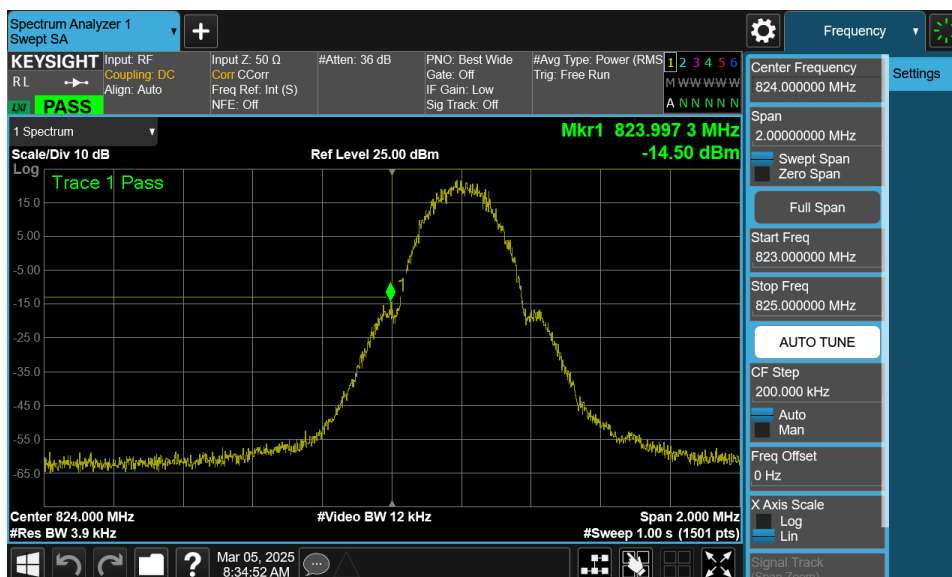
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 67 of 129

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
GSM-Cell	250kHz	Low	Band Edge	-14.50	-13	-1.50
		High	Band Edge	-16.86	-13	-3.86
WCDMA-Cell	5MHz	Low	Band Edge	-18.15	-13	-5.15
		High	Band Edge	-20.67	-13	-7.67
LTE-B26-5	15 MHz	Low	Band Edge	-26.45	-13	-13.45
		High	Band Edge	-28.22	-13	-15.22
	10 MHz	Low	Band Edge	-24.00	-13	-11.00
		High	Band Edge	-26.94	-13	-13.94
	5 MHz	Low	Band Edge	-20.84	-13	-7.84
		High	Band Edge	-22.77	-13	-9.77
	3 MHz	Low	Band Edge	-16.34	-13	-3.34
		High	Band Edge	-18.74	-13	-5.74
	1.4 MHz	Low	Band Edge	-25.14	-13	-12.14
		High	Band Edge	-14.90	-13	-1.90
NR-n5	20 MHz	Low	Band Edge	-30.40	-13	-17.40
		High	Band Edge	-30.84	-13	-17.84
	15 MHz	Low	Band Edge	-26.94	-13	-13.94
		High	Band Edge	-28.34	-13	-15.34
	10 MHz	Low	Band Edge	-27.04	-13	-14.04
		High	Band Edge	-28.33	-13	-15.33
	5 MHz	Low	Band Edge	-22.26	-13	-9.26
		High	Band Edge	-22.72	-13	-9.72

Table 7-7. Conducted Band Edge Results – Ant2

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 68 of 129

GSM/GPRS Cell – Ant2



FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 69 of 129

WCDMA Cell – Ant2



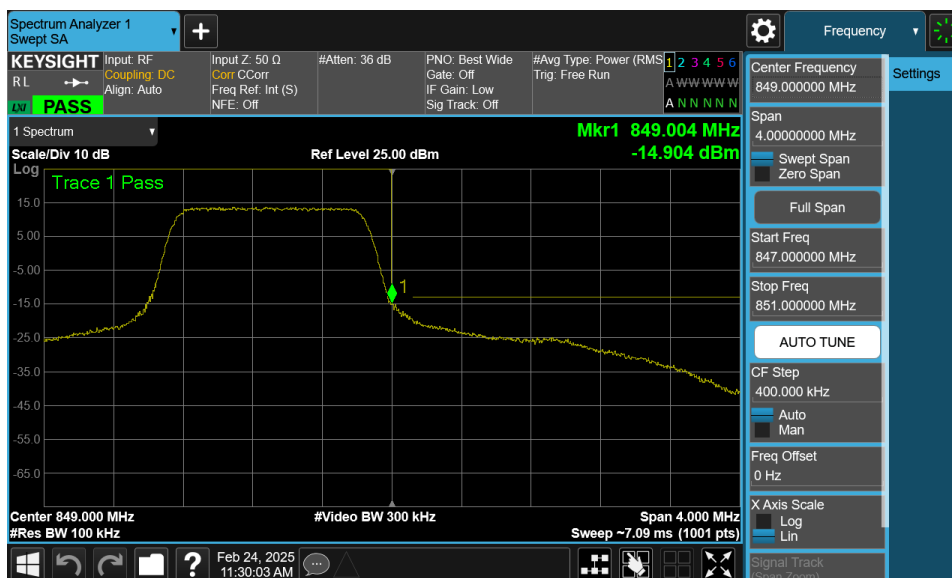
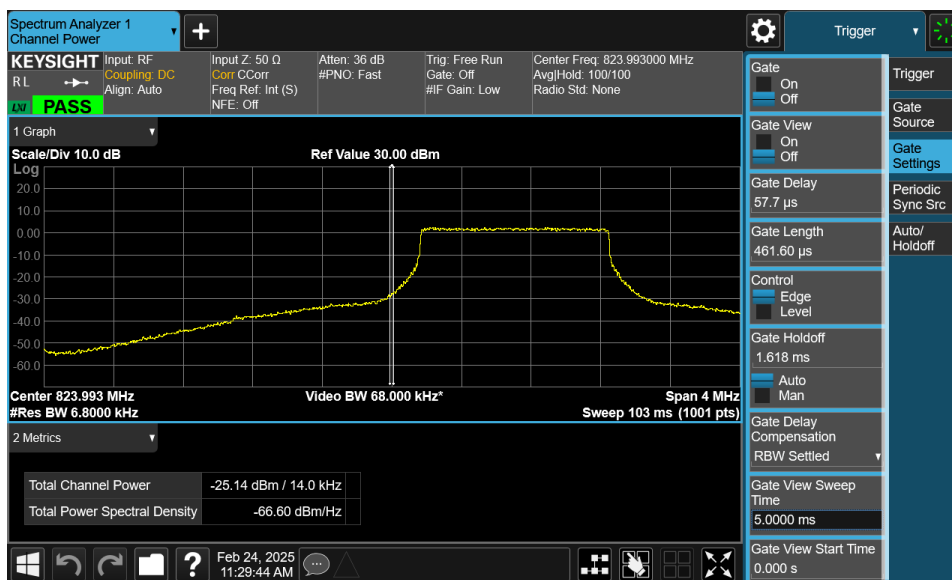
Plot 7-85. Lower Band Edge Plot (WCDMA Cell – Ch. 4132 – Ant2)



Plot 7-86. Upper Band Edge Plot (WCDMA Cell – Ch. 4233 – Ant2)

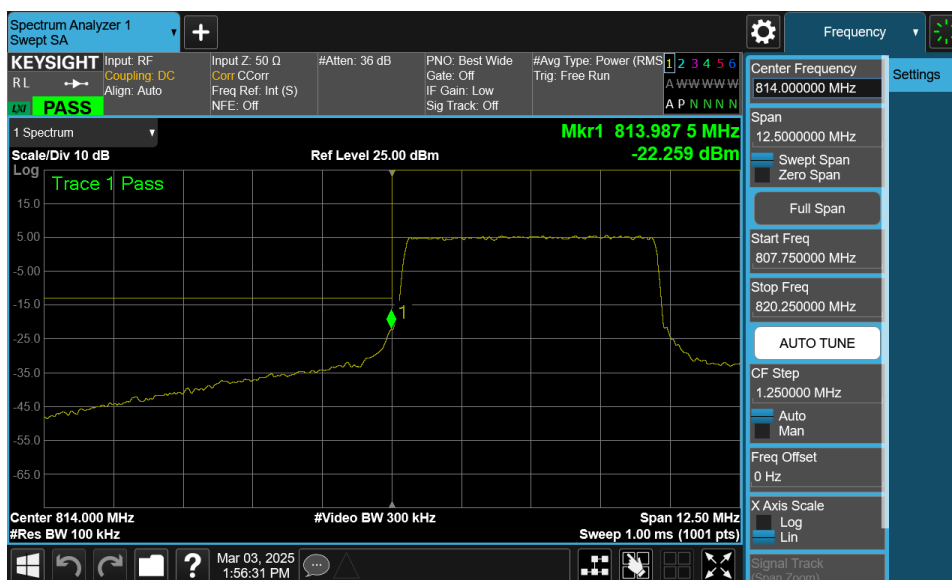
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 70 of 129

LTE Band 26/5 – Ant2



FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 71 of 129

NR Band n5 – Ant2



Plot 7-89. Lower Band Edge Plot (NR Band n5 – 5.0MHz - Full RB - Ant2)



Plot 7-90. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB - Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 72 of 129

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

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.

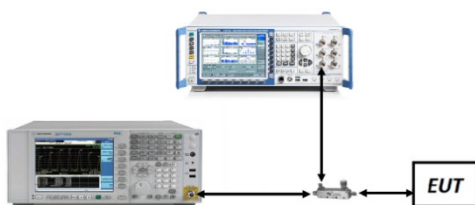


Figure 7-4. Test Instrument & Measurement Setup

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.

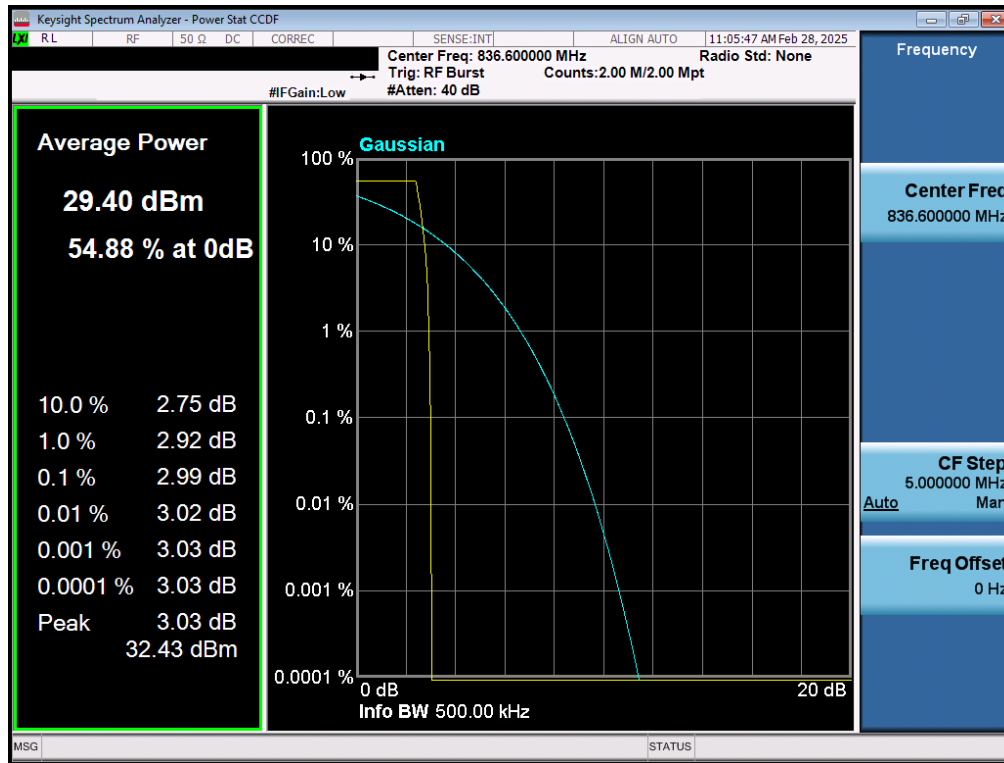
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 73 of 129

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM850	N/A	GMSK	29.40	2.99	13.0	-10.01
EDGE850		8-PSK	23.61	8.79	13.0	-4.21
WCDMA850		Spread Spectrum	24.80	3.00	13	-10.00
LTE Band 26/5	15MHz (Band 26 only)	QPSK	23.79	4.69	13	-8.31
		256QAM	19.75	6.78	13	-6.22
	10 MHz	QPSK	23.80	4.75	13	-8.25
		256QAM	19.80	6.77	13	-6.23
	5 MHz	QPSK	23.83	4.79	13	-8.21
		256QAM	19.82	6.80	13	-6.20
	3 MHz	QPSK	23.82	4.71	13	-8.29
		256QAM	19.82	6.77	13	-6.23
	1.4 MHz	QPSK	23.73	5.43	13	-7.57
		256QAM	19.60	6.82	13	-6.18
NR Band n5	20 MHz	$\pi/2$ BPSK	23.94	4.32	13	-8.68
		QPSK	21.30	7.29	13	-5.71
		256QAM	17.78	8.46	13	-4.54
	15 MHz	$\pi/2$ BPSK	23.82	4.55	13	-8.45
		QPSK	21.34	7.38	13	-5.62
		256QAM	17.81	8.39	13	-4.61
	10 MHz	$\pi/2$ BPSK	23.85	4.45	13	-8.55
		QPSK	21.38	7.17	13	-5.83
		256QAM	17.82	8.64	13	-4.36
	5 MHz	$\pi/2$ BPSK	23.85	4.50	13	-8.50
		QPSK	21.45	7.32	13	-5.68
		256QAM	17.88	8.44	13	-4.56

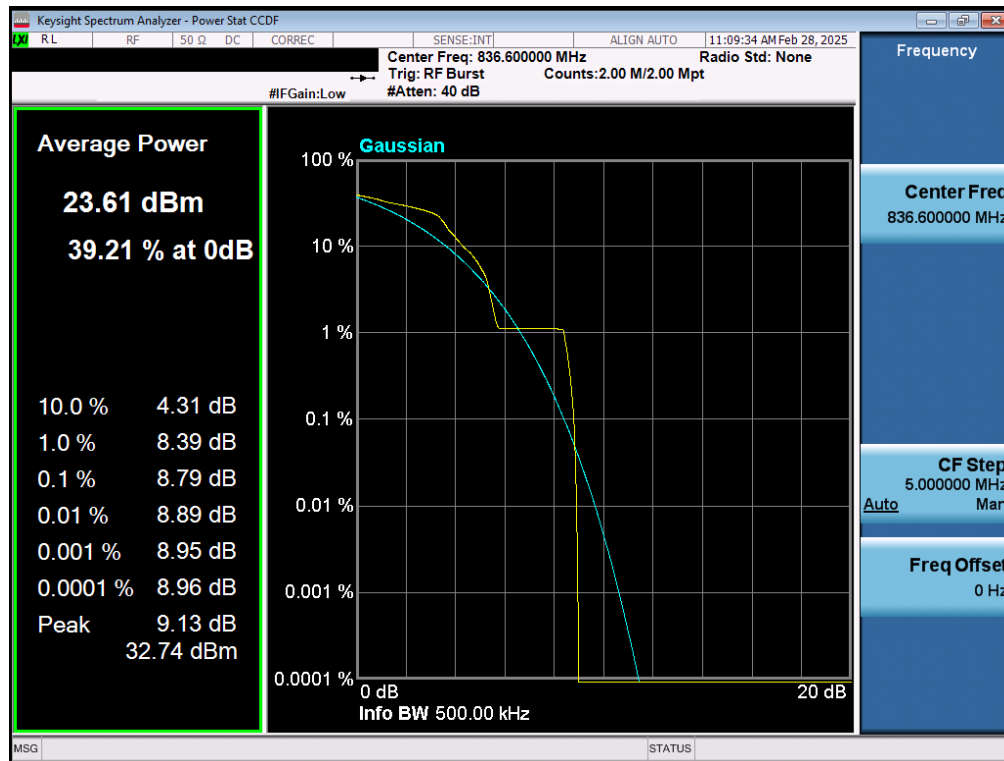
Table 7-8. Peak-Average Ratio Results – Ant1

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 74 of 129

GPRS Cell – Ant1



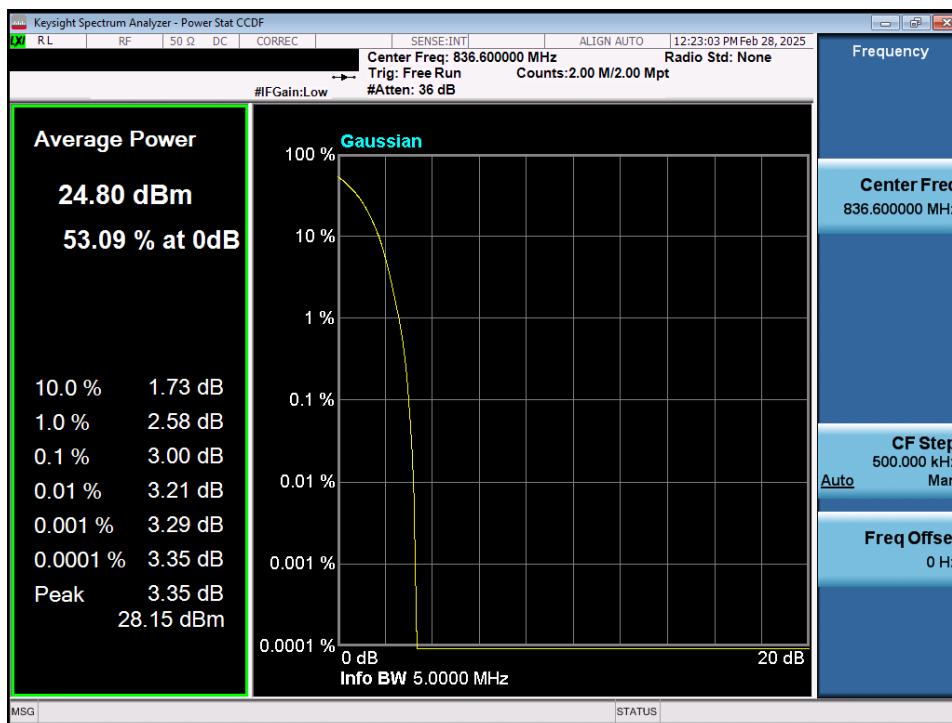
Plot 7-91. Peak-Average Ratio Plot (GPRS, Ch. 190 – Ant1)



Plot 7-92. Peak-Average Ratio Plot (EDGE, Ch. 190 – Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 75 of 129

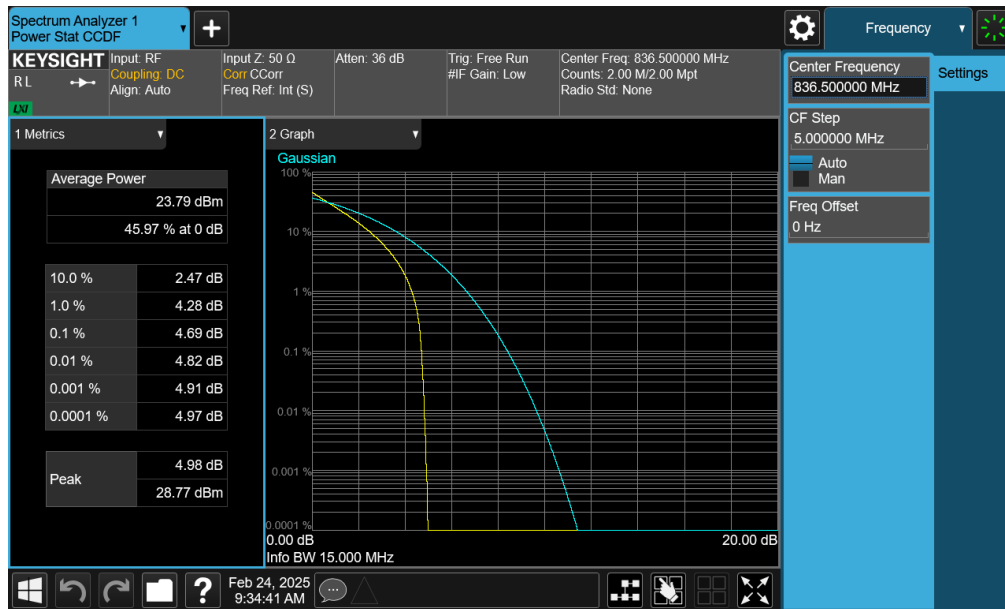
WCDMA Cell – Ant1



Plot 7-93. Peak-Average Ratio Plot (WCDMA, Ch. 4183 – Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 76 of 129

LTE Band 26/5 – Ant1

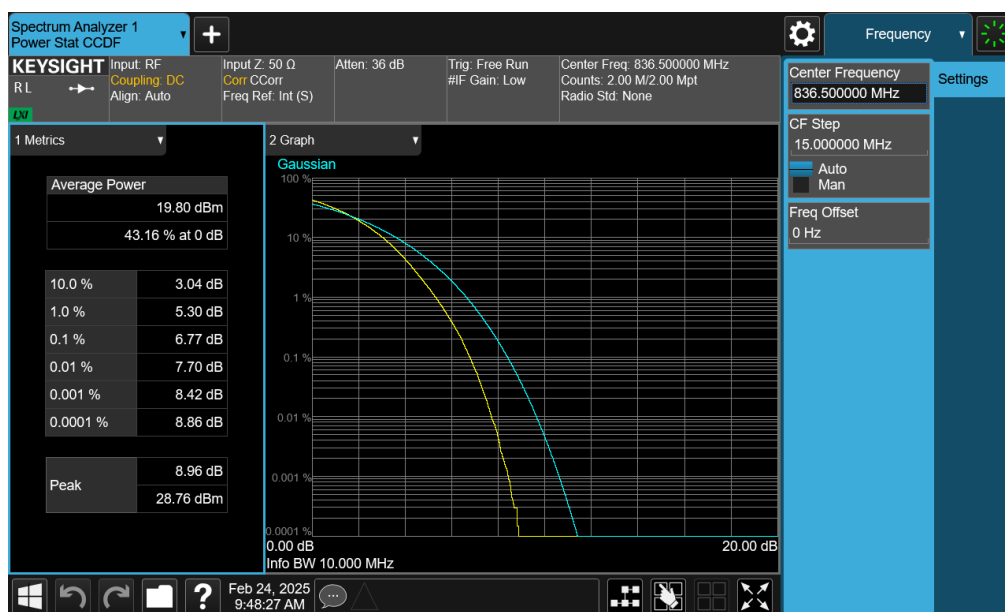
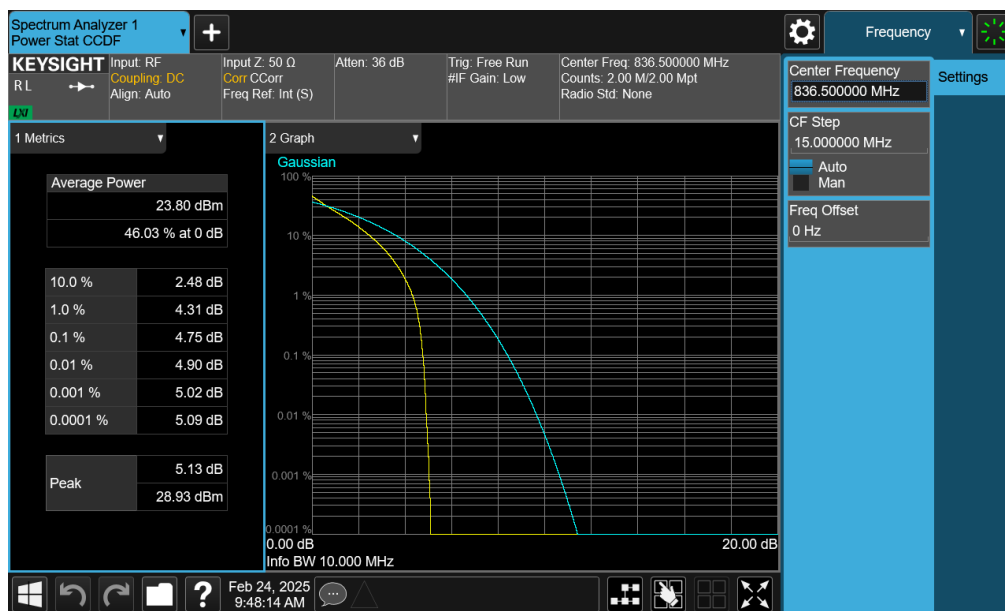


Plot 7-94. Peak-Average Ratio Plot (LTE Band 26 - 15MHz QPSK - Full RB - Ant1)



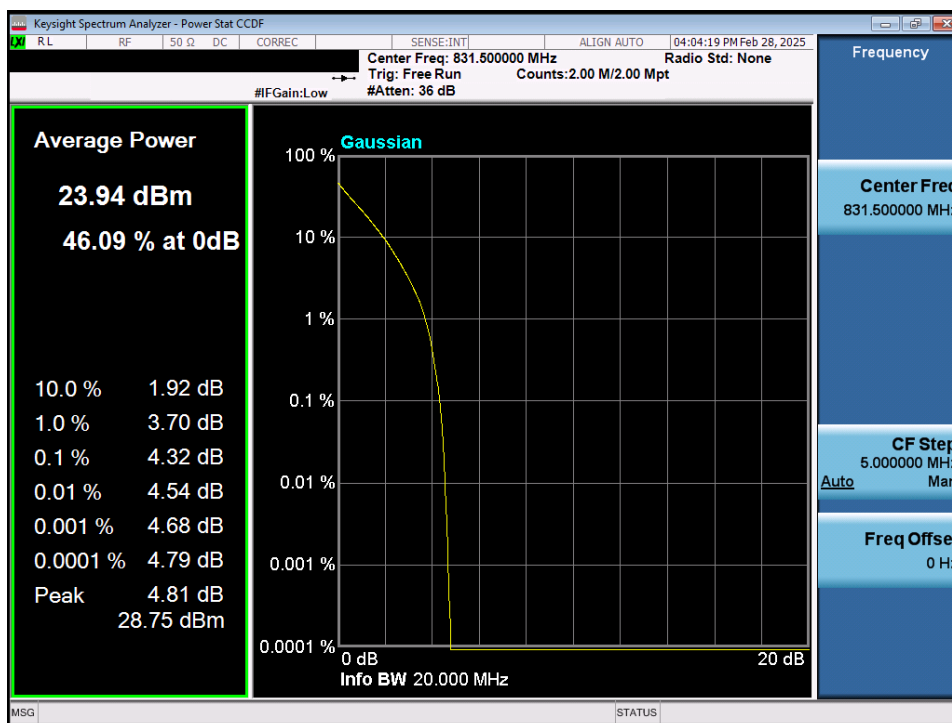
Plot 7-95. Peak-Average Ratio Plot (LTE Band 26 - 15MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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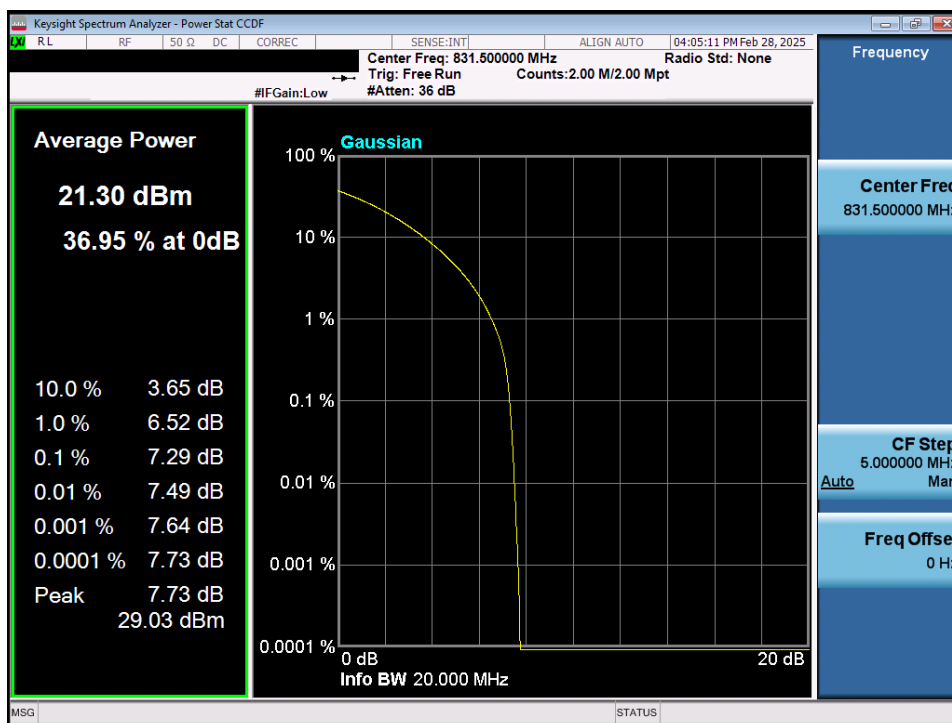


FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 78 of 129

NR Band n5 – Ant1

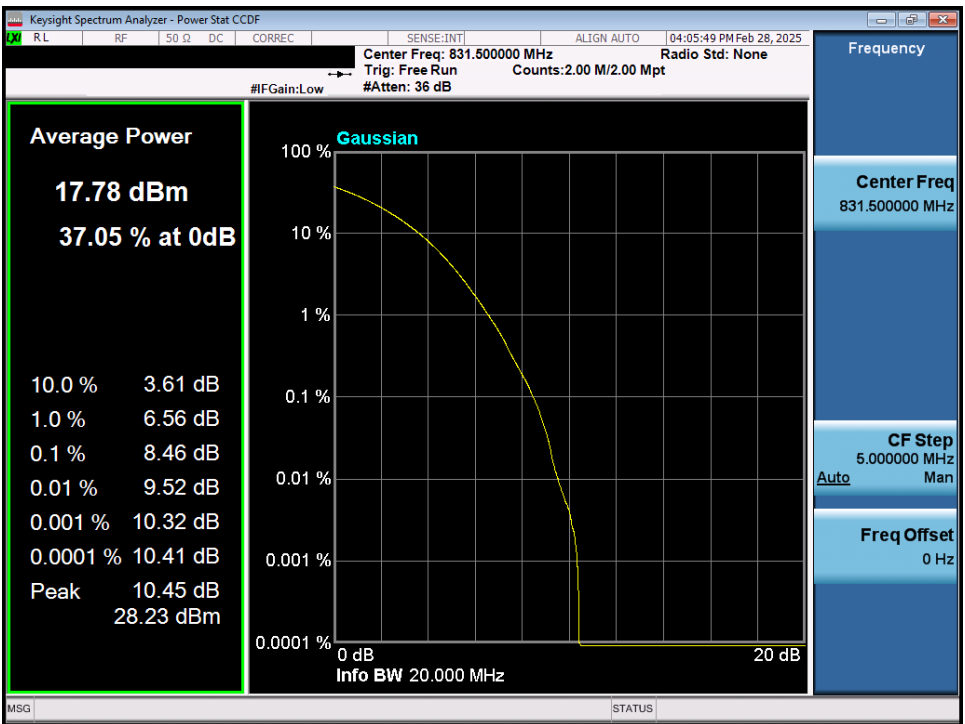


Plot 7-98. Peak-Average Ratio Plot (NR Band n5 - 20MHz $\pi/2$ BPSK - Full RB - Ant1)



Plot 7-99. Peak-Average Ratio Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant1)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 79 of 129



Plot 7-100. Peak-Average Ratio Plot (NR Band n5 - 20MHz 256-QAM - Full RB - Ant1)

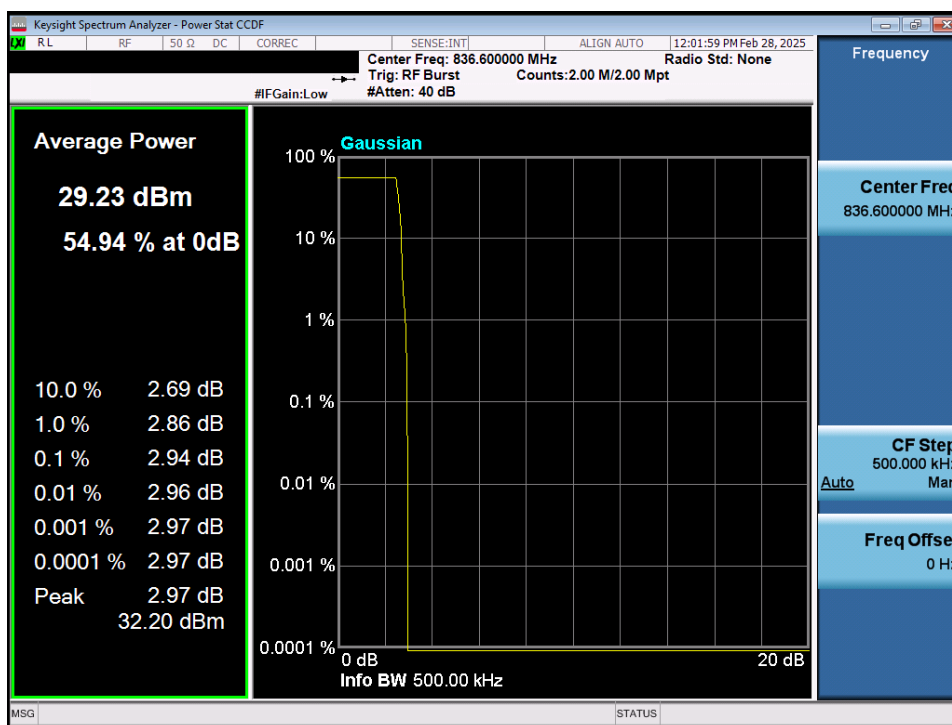
FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 80 of 129

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM850	N/A	GMSK	29.23	2.94	13	-10.06
EDGE850		8-PSK	23.14	8.99	13	-4.01
WCDMA850		Spread Spectrum	24.01	3.26	13	-9.74
LTE Band 26/5	15MHz (Band 26 only)	QPSK	23.57	4.80	13	-8.20
		256QAM	19.56	6.84	13	-6.16
	10 MHz	QPSK	23.68	4.88	13	-8.12
		256QAM	19.64	6.97	13	-6.03
	5 MHz	QPSK	23.62	4.99	13	-8.01
		256QAM	19.59	7.03	13	-5.97
	3 MHz	QPSK	23.66	4.90	13	-8.10
		256QAM	19.60	7.07	13	-5.93
	1.4 MHz	QPSK	23.57	5.56	13	-7.44
		256QAM	19.51	7.12	13	-5.88
NR Band n5	20 MHz	$\pi/2$ BPSK	23.58	4.11	13	-8.89
		QPSK	21.09	7.37	13	-5.63
		256QAM	17.52	8.51	13	-4.49
	15 MHz	$\pi/2$ BPSK	23.53	4.36	13	-8.64
		QPSK	21.01	7.26	13	-5.74
		256QAM	17.39	8.32	13	-4.68
	10 MHz	$\pi/2$ BPSK	23.56	4.14	13	-8.86
		QPSK	21.06	6.82	13	-6.18
		256QAM	17.42	8.47	13	-4.53
	5 MHz	$\pi/2$ BPSK	23.48	4.13	13	-8.87
		QPSK	21.07	6.85	13	-6.15
		256QAM	17.45	8.25	13	-4.75

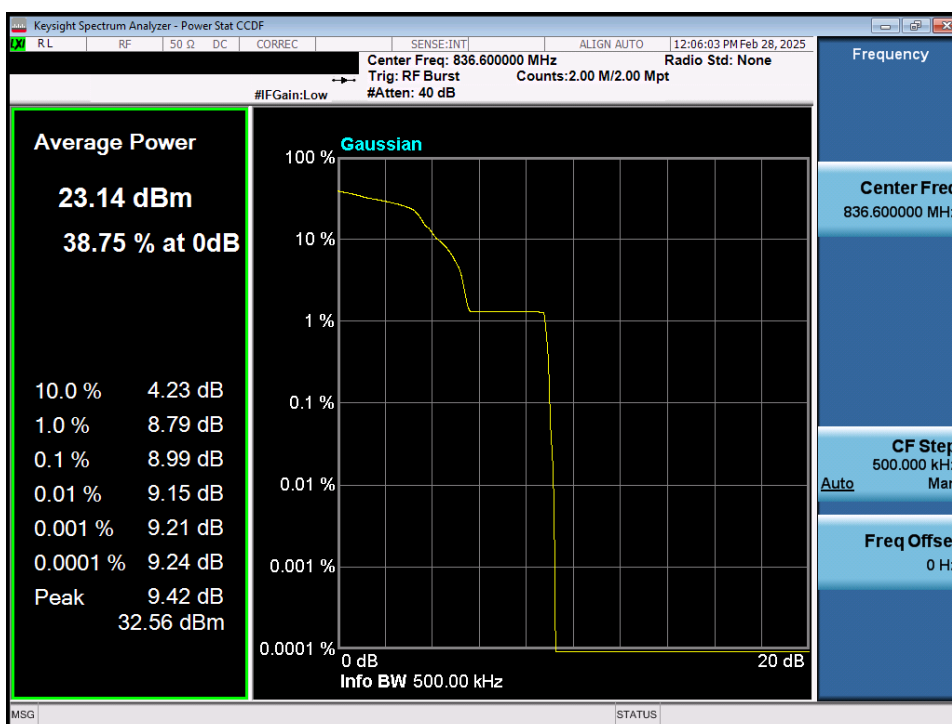
Table 7-9. Peak-Average Ratio Results – Ant2

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset	Page 81 of 129

GPRS Cell – Ant2



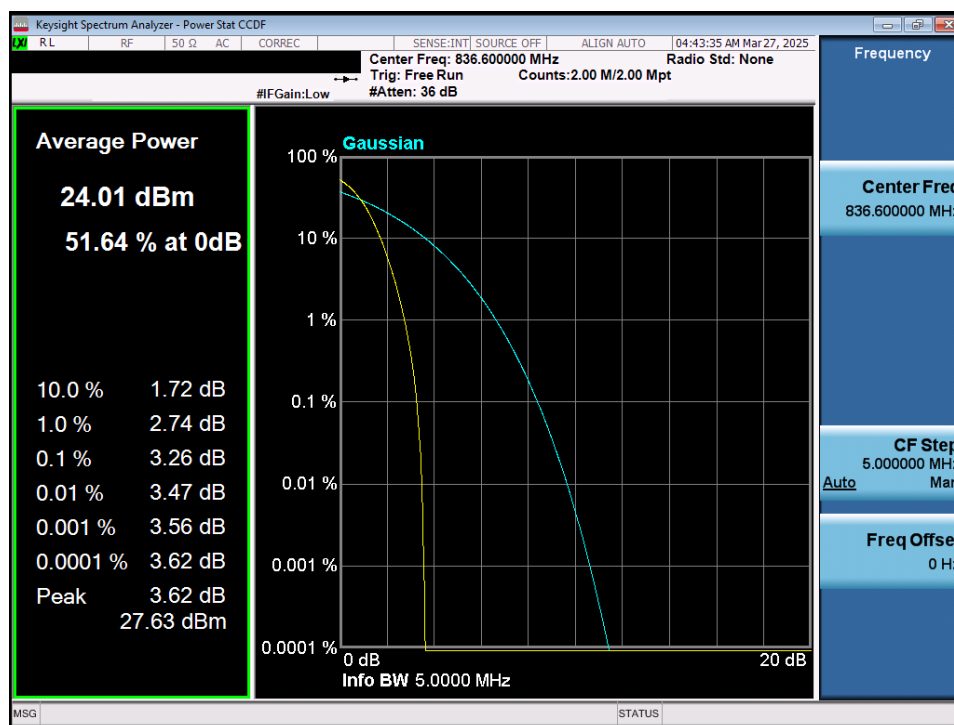
Plot 7-101. Peak-Average Ratio Plot (GPRS, Ch. 190 – Ant2)



Plot 7-102. Peak-Average Ratio Plot (EDGE, Ch. 190 – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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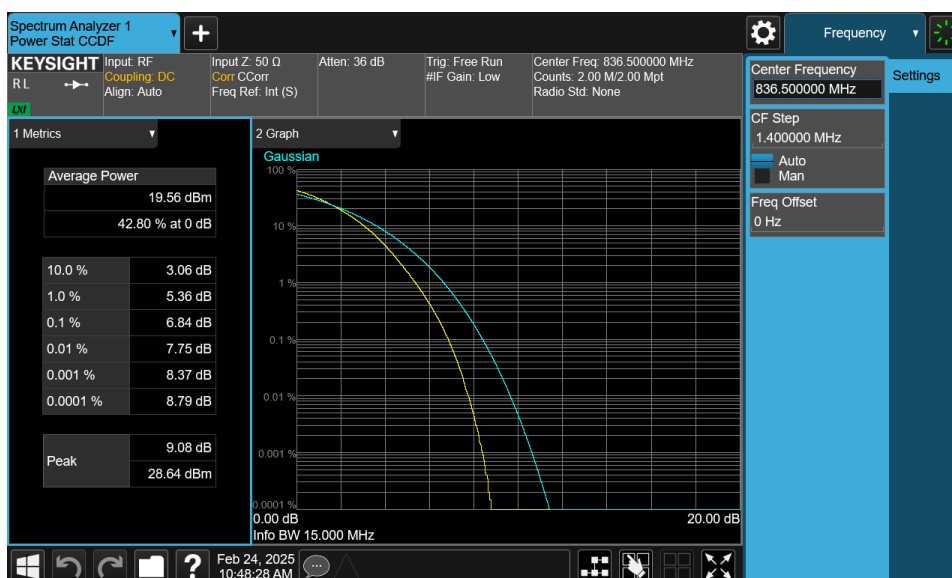
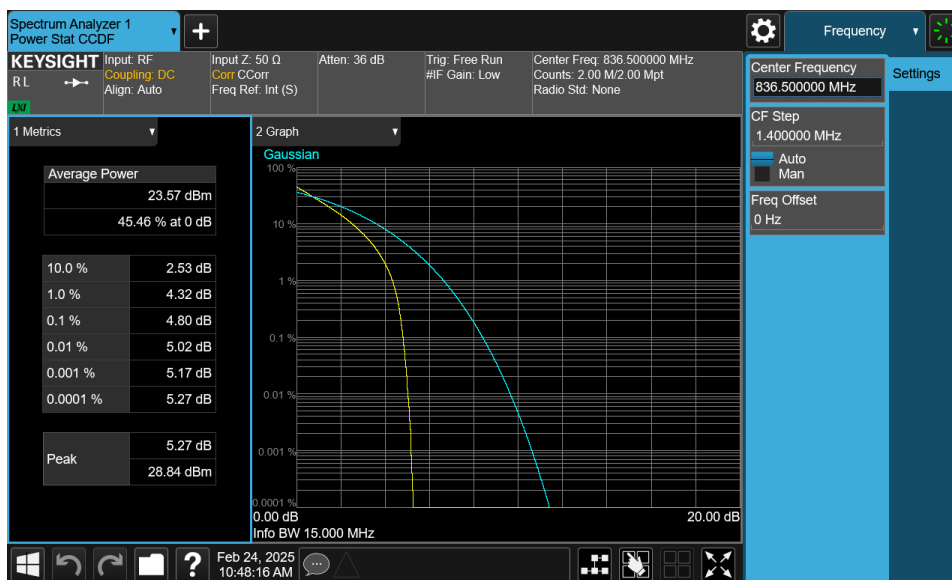
WCDMA Cell – Ant2



Plot 7-103. Peak-Average Ratio Plot (WCDMA, Ch. 4183 – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5 – Ant2

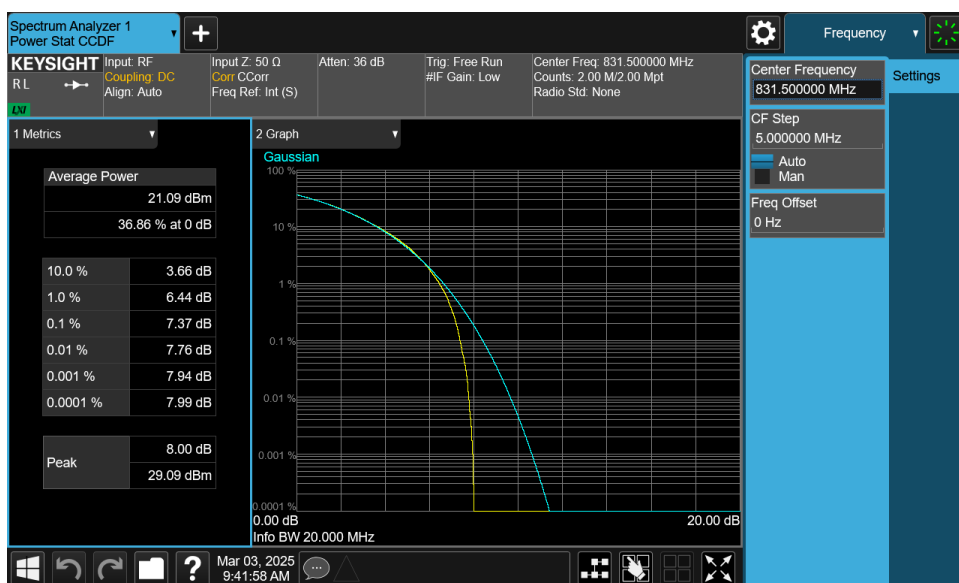


FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – Ant2



Plot 7-106. Peak-Average Ratio Plot (NR Band n5 - 20MHz $\pi/2$ BPSK - Full RB - Ant2)



Plot 7-107. Peak-Average Ratio Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-108. Peak-Average Ratio Plot (NR Band n5 - 20MHz 256-QAM - Full RB - Ant2)

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7.6 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.

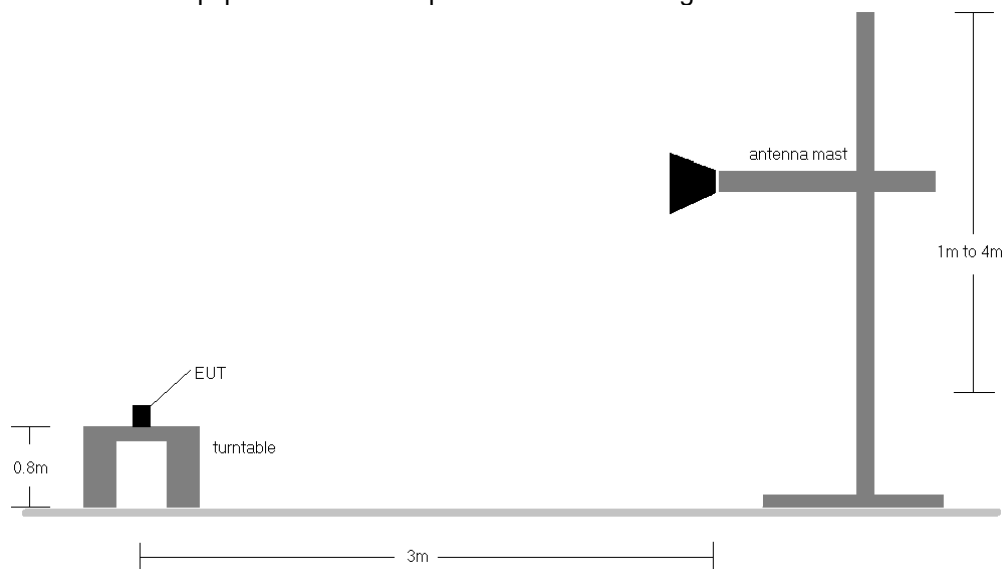


Figure 7-5. Radiated Test Setup < 1GHz

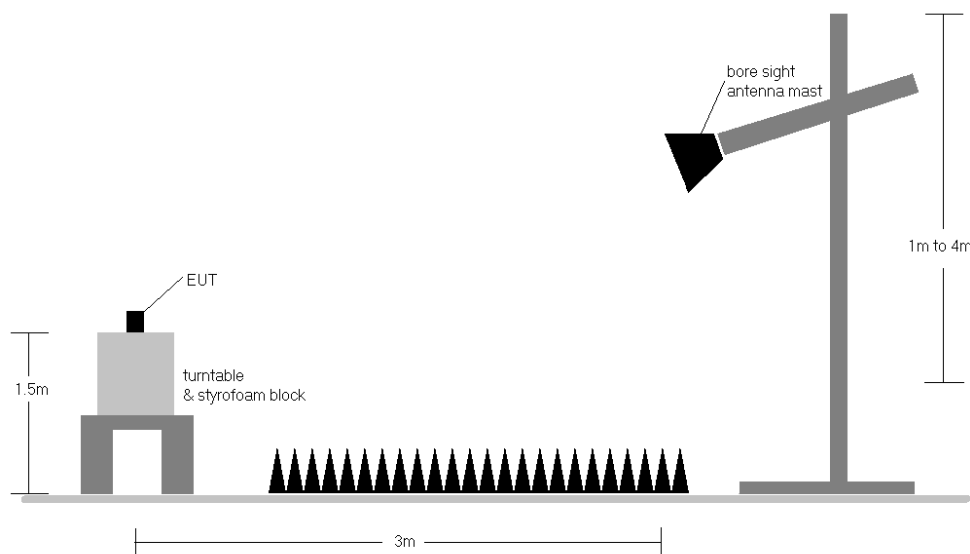


Figure 7-6. Radiated Test Setup > 1GHz

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".

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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	100	345	27.85	1.34	27.04	0.506	38.45	-11.41
836.60	GSM850	H	111	345	27.68	1.54	27.07	0.510	38.45	-11.38
848.80	GSM850	H	100	344	27.11	1.74	26.70	0.468	38.45	-11.75
836.60	GSM850	V	120	236	26.34	1.36	25.55	0.359	38.45	-12.91
836.60	EDGE850	H	111	345	19.52	1.54	18.91	0.078	38.45	-19.54
836.60	GSM850 (WCP)	H	114	346	24.69	1.54	24.08	0.256	38.45	-14.37

Table 7-10. 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	109	337	18.95	1.38	18.18	0.066	38.45	-20.27
836.60	WCDMA850	H	105	344	18.89	1.54	18.28	0.067	38.45	-20.17
846.60	WCDMA850	H	103	345	18.33	1.71	17.89	0.061	38.45	-20.56
836.60	WCDMA850	V	122	204	18.17	1.54	17.56	0.057	38.45	-20.89
836.60	WCDMA850 (WCP)	H	108	345	16.65	1.54	16.04	0.040	38.45	-22.41

Table 7-11. 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]
15MHz	QPSK	831.50	H	219	323	1.46	1 / 37	21.07	20.38	0.109	38.45	-18.07
	QPSK	836.50	H	222	332	1.54	1 / 0	20.77	20.16	0.104	38.45	-18.29
	QPSK	841.50	H	212	333	1.62	1 / 74	20.26	19.73	0.094	38.45	-18.72
	16-QAM	831.50	H	219	323	1.46	1 / 37	20.20	19.51	0.089	38.45	-18.94
10 MHz	QPSK	829.00	H	219	323	1.42	1 / 25	21.24	20.52	0.113	38.45	-17.94
	QPSK	836.50	H	222	332	1.54	1 / 25	20.90	20.29	0.107	38.45	-18.16
	QPSK	844.00	H	212	333	1.66	1 / 25	20.04	19.56	0.090	38.45	-18.90
	16-QAM	829.00	H	219	323	1.42	1 / 25	20.41	19.68	0.093	38.45	-18.77
5 MHz	QPSK	826.50	H	219	323	1.38	1 / 24	21.01	20.24	0.106	38.45	-18.21
	QPSK	836.50	H	222	332	1.54	1 / 12	20.83	20.22	0.105	38.45	-18.23
	QPSK	846.50	H	212	333	1.70	1 / 12	19.99	19.55	0.090	38.45	-18.91
	16-QAM	826.50	H	219	323	1.38	1 / 24	20.27	19.50	0.089	38.45	-18.95
3 MHz	QPSK	825.50	H	219	323	1.36	1 / 14	21.06	20.27	0.107	38.45	-18.18
	QPSK	836.50	H	222	332	1.54	1 / 14	20.90	20.29	0.107	38.45	-18.16
	QPSK	847.50	H	212	333	1.72	1 / 7	19.90	19.47	0.089	38.45	-18.98
	16-QAM	825.50	H	219	323	1.36	1 / 14	20.19	19.41	0.087	38.45	-19.05
1.4 MHz	QPSK	824.70	H	219	323	1.35	1 / 5	21.14	20.34	0.108	38.45	-18.11
	QPSK	836.50	H	222	332	1.54	1 / 0	20.71	20.11	0.102	38.45	-18.35
	QPSK	848.30	H	212	333	1.73	1 / 0	19.84	19.43	0.088	38.45	-19.02
	16-QAM	836.50	H	222	332	1.54	1 / 5	20.09	19.48	0.089	38.45	-18.97
15MHz	QPSK (Opposite Pol.)	831.50	V	137	206	1.25	1 / 74	18.83	17.93	0.062	38.45	-20.52
	QPSK (WCP)	831.50	H	277	332	1.46	1 / 37	14.23	13.54	0.023	38.45	-24.91

Table 7-12. ERP Data (LTE Band 26/5 – Ant1)

FCC ID: A3LSMF966B	PART 22 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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	834.00	H	224	331	1.50	1 / 1	19.72	19.07	0.081	38.45	-19.38
	π/2 BPSK	836.50	H	222	333	1.54	1 / 53	19.57	18.96	0.079	38.45	-19.49
	π/2 BPSK	839.00	H	215	333	1.58	1 / 104	19.77	19.20	0.083	38.45	-19.25
	QPSK	834.00	H	224	331	1.50	1 / 1	19.63	18.98	0.079	38.45	-19.47
	QPSK	836.50	H	222	333	1.54	1 / 53	19.59	18.98	0.079	38.45	-19.47
	QPSK	839.00	H	215	333	1.58	1 / 104	19.76	19.19	0.083	38.45	-19.26
15 MHz	16-QAM	839.00	H	215	333	1.58	1 / 104	18.74	18.17	0.066	38.45	-20.28
	π/2 BPSK	831.50	H	224	331	1.46	1 / 1	19.81	19.12	0.082	38.45	-19.33
	π/2 BPSK	836.50	H	222	333	1.54	1 / 1	19.59	18.98	0.079	38.45	-19.47
	π/2 BPSK	841.50	H	215	333	1.62	1 / 1	19.70	19.17	0.083	38.45	-19.28
	QPSK	831.50	H	224	331	1.46	1 / 1	19.76	19.07	0.081	38.45	-19.38
	QPSK	836.50	H	222	333	1.54	1 / 1	19.60	18.99	0.079	38.45	-19.46
10 MHz	QPSK	841.50	H	215	333	1.62	1 / 1	19.67	19.14	0.082	38.45	-19.31
	16-QAM	841.50	H	215	333	1.62	1 / 1	18.73	18.20	0.066	38.45	-20.25
	π/2 BPSK	829.00	H	224	331	1.42	1 / 1	19.93	19.20	0.083	38.45	-19.25
	π/2 BPSK	836.50	H	222	333	1.54	1 / 1	19.63	19.02	0.080	38.45	-19.43
	π/2 BPSK	844.00	H	215	333	1.66	1 / 1	19.63	19.14	0.082	38.45	-19.31
	QPSK	829.00	H	224	331	1.42	1 / 1	19.81	19.08	0.081	38.45	-19.37
5 MHz	QPSK	836.50	H	222	333	1.54	1 / 1	19.68	19.07	0.081	38.45	-19.38
	QPSK	844.00	H	215	333	1.66	1 / 1	19.59	19.10	0.081	38.45	-19.35
	16-QAM	829.00	H	224	331	1.42	1 / 1	18.95	18.22	0.066	38.45	-20.23
	π/2 BPSK	829.00	H	224	331	1.38	1 / 12	19.83	19.06	0.081	38.45	-19.39
	π/2 BPSK	836.50	H	222	333	1.54	1 / 1	19.65	19.04	0.080	38.45	-19.41
	π/2 BPSK	844.00	H	215	333	1.70	1 / 12	19.51	19.06	0.081	38.45	-19.39
20MHz	QPSK	829.00	H	224	331	1.38	1 / 1	19.66	18.89	0.077	38.45	-19.56
	QPSK	836.50	H	222	333	1.54	1 / 1	19.63	19.02	0.080	38.45	-19.43
	QPSK	844.00	H	215	333	1.70	1 / 1	19.54	19.09	0.081	38.45	-19.36
	16-QAM	844.00	H	215	333	1.70	1 / 1	18.62	18.17	0.066	38.45	-20.28
20MHz	QPSK (CP-OFDM)	839.00	H	215	333	1.58	1 / 104	18.40	17.83	0.061	38.45	-20.62
	QPSK (Opposite Pol.)	839.00	V	136	219	1.41	1 / 53	18.38	17.64	0.058	38.45	-20.82
	QPSK (WCP)	839.00	H	225	330	1.58	1 / 1	15.29	14.72	0.030	38.45	-23.73

Table 7-13. 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	227	209	25.77	1.34	24.96	0.313	38.45	-13.49
836.60	GSM850	H	219	200	26.60	1.54	25.99	0.398	38.45	-12.46
848.80	GSM850	H	211	200	28.56	1.74	28.15	0.653	38.45	-10.30
848.80	GSM850	V	195	216	25.56	1.36	24.77	0.300	38.45	-13.69
848.80	EDGE850	H	211	200	20.66	1.54	20.05	0.101	38.45	-18.40
848.80	GSM850 (WCP)	H	305	193	25.52	1.54	24.91	0.310	38.45	-13.54

Table 7-14. 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	104	207	17.09	1.38	16.32	0.043	38.45	-22.13
836.60	WCDMA850	H	103	208	17.83	1.54	17.22	0.053	38.45	-21.23
846.60	WCDMA850	H	104	200	19.07	1.71	18.63	0.073	38.45	-19.82
846.60	WCDMA850	V	181	239	18.28	1.71	17.84	0.061	38.45	-20.61
846.60	WCDMA850 (WCP)	H	174	192	16.17	1.71	15.73	0.037	38.45	-22.72

Table 7-15. ERP Data (WCDMA Cell – Ant2)

FCC ID: A3LSMF966B	PART 22 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2502270019-01.A3L	Test Dates: 2/24/2025 - 4/11/2025	EUT Type: Portable Handset			Page 91 of 129	

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]
15MHz	QPSK	831.50	H	222	200	1.46	1 / 37	20.52	19.83	0.096	38.45	-18.62
	QPSK	836.50	H	224	199	1.54	1 / 37	20.47	19.86	0.097	38.45	-18.59
	QPSK	841.50	H	228	193	1.62	1 / 0	19.91	19.38	0.087	38.45	-19.07
	16-QAM	836.50	H	224	199	1.54	1 / 37	19.52	18.91	0.078	38.45	-19.54
10 MHz	QPSK	829.00	H	222	200	1.42	1 / 25	20.48	19.75	0.095	38.45	-18.70
	QPSK	836.50	H	224	199	1.54	1 / 25	20.30	19.70	0.093	38.45	-18.75
	QPSK	844.00	H	228	193	1.66	1 / 0	19.56	19.08	0.081	38.45	-19.38
	16-QAM	836.50	H	224	199	1.54	1 / 25	19.62	19.01	0.080	38.45	-19.44
5 MHz	QPSK	826.50	H	222	200	1.38	1 / 12	20.63	19.86	0.097	38.45	-18.59
	QPSK	836.50	H	224	199	1.54	1 / 12	20.33	19.72	0.094	38.45	-18.73
	QPSK	846.50	H	228	193	1.70	1 / 0	19.69	19.24	0.084	38.45	-19.21
	16-QAM	836.50	H	224	199	1.54	1 / 12	19.74	19.13	0.082	38.45	-19.32
3 MHz	QPSK	825.50	H	222	200	1.36	1 / 0	20.52	19.74	0.094	38.45	-18.72
	QPSK	836.50	H	224	199	1.54	1 / 7	20.19	19.58	0.091	38.45	-18.87
	QPSK	847.50	H	228	193	1.72	1 / 7	19.49	19.06	0.081	38.45	-19.39
	16-QAM	836.50	H	224	199	1.54	1 / 7	19.58	18.98	0.079	38.45	-19.47
1.4 MHz	QPSK	824.70	H	222	200	1.35	1 / 3	20.37	19.57	0.091	38.45	-18.88
	QPSK	836.50	H	224	199	1.54	1 / 0	19.97	19.37	0.086	38.45	-19.08
	QPSK	848.30	H	228	193	1.73	1 / 0	19.28	18.86	0.077	38.45	-19.59
	16-QAM	836.50	H	224	199	1.54	1 / 0	19.55	18.94	0.078	38.45	-19.51
15MHz	QPSK (Opposite Pol.)	836.50	V	156	271	1.35	1 / 0	19.12	18.32	0.068	38.45	-20.13
	QPSK (WCP)	836.50	H	330	210	1.54	1 / 37	16.59	15.98	0.040	38.45	-22.47

Table 7-16. ERP Data (LTE Band 26/5 – 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	TT/2 BPSK	834.00	H	218	192	1.50	1 / 1	19.23	18.58	0.072	38.45	-19.87
	TT/2 BPSK	836.50	H	218	190	1.54	1 / 1	19.36	18.75	0.075	38.45	-19.70
	TT/2 BPSK	839.00	H	224	196	1.58	1 / 1	19.19	18.62	0.073	38.45	-19.83
	QPSK	834.00	H	218	192	1.50	1 / 1	19.30	18.65	0.073	38.45	-19.80
	QPSK	836.50	H	218	190	1.54	1 / 1	19.39	18.78	0.076	38.45	-19.67
	QPSK	839.00	H	224	196	1.58	1 / 1	19.21	18.64	0.073	38.45	-19.81
15 MHz	16-QAM	836.50	H	218	190	1.54	1 / 1	18.11	17.50	0.056	38.45	-20.95
	TT/2 BPSK	831.50	H	218	192	1.46	1 / 1	19.33	18.64	0.073	38.45	-19.81
	TT/2 BPSK	836.50	H	218	190	1.54	1 / 39	19.39	18.78	0.076	38.45	-19.67
	TT/2 BPSK	841.50	H	224	196	1.62	1 / 77	19.07	18.54	0.072	38.45	-19.91
	QPSK	831.50	H	218	192	1.46	1 / 1	19.51	18.82	0.076	38.45	-19.63
	QPSK	836.50	H	218	190	1.54	1 / 39	19.41	18.80	0.076	38.45	-19.65
10 MHz	QPSK	841.50	H	224	196	1.62	1 / 39	19.07	18.54	0.072	38.45	-19.91
	16-QAM	831.50	H	218	192	1.46	1 / 1	18.36	17.67	0.059	38.45	-20.78
	TT/2 BPSK	829.00	H	218	192	1.42	1 / 1	19.41	18.68	0.074	38.45	-19.77
	TT/2 BPSK	836.50	H	218	190	1.54	1 / 1	19.38	18.77	0.075	38.45	-19.68
	TT/2 BPSK	844.00	H	224	196	1.66	1 / 26	18.97	18.48	0.071	38.45	-19.97
	QPSK	829.00	H	218	192	1.42	1 / 1	19.53	18.80	0.076	38.45	-19.65
5 MHz	QPSK	836.50	H	218	190	1.54	1 / 1	19.42	18.81	0.076	38.45	-19.64
	QPSK	844.00	H	224	196	1.66	1 / 1	19.03	18.54	0.072	38.45	-19.91
	16-QAM	829.00	H	218	192	1.42	1 / 1	18.34	17.61	0.058	38.45	-20.84
	TT/2 BPSK	829.00	H	218	192	1.38	1 / 12	19.43	18.66	0.073	38.45	-19.79
	TT/2 BPSK	836.50	H	218	190	1.54	1 / 12	19.42	18.81	0.076	38.45	-19.64
	TT/2 BPSK	844.00	H	224	196	1.70	1 / 12	18.99	18.54	0.072	38.45	-19.91
20MHz	QPSK	829.00	H	218	192	1.38	1 / 12	19.60	18.83	0.076	38.45	-19.62
	QPSK	836.50	H	218	190	1.54	1 / 12	19.45	18.84	0.077	38.45	-19.61
	QPSK	844.00	H	224	196	1.70	1 / 12	19.02	18.57	0.072	38.45	-19.88
	16-QAM	829.00	H	218	192	1.38	1 / 1	18.45	17.68	0.059	38.45	-20.77
20MHz	QPSK (CP-OFDM)	836.50	H	218	190	1.58	1 / 1	17.72	17.15	0.052	38.45	-21.30
	QPSK (Opposite Pol.)	836.50	V	159	260	1.41	1 / 53	18.96	18.22	0.066	38.45	-20.24
	QPSK (WCP)	836.50	H	305	210	1.58	1 / 53	16.36	15.79	0.038	38.45	-22.66

Table 7-17. ERP Data (NR Band n5 – Ant2)

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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	V	139	161	19.41	1.09	18.35	0.068	38.45	-20.10
836.60	GSM850	V	146	161	19.01	1.36	18.22	0.066	38.45	-20.24
848.80	GSM850	V	142	156	18.53	1.61	17.99	0.063	38.45	-20.46
824.20	GSM850	H	218	169	18.22	1.34	17.41	0.055	38.45	-21.04
824.20	EDGE850	V	139	161	13.35	1.09	12.29	0.017	38.45	-26.16
824.20	GSM850 (WCP)	V	140	68	19.33	1.09	18.27	0.067	38.45	-20.18

Table 7-18. ERP Data (GPRS Cell – Ant3)

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	V	142	61	14.44	1.09	13.38	0.022	38.45	-25.07
836.60	WCDMA850	V	145	64	14.57	1.36	13.78	0.024	38.45	-24.68
846.60	WCDMA850	V	145	69	12.67	1.61	12.13	0.016	38.45	-26.32
836.60	WCDMA850	H	205	172	14.14	1.54	13.53	0.023	38.45	-24.92
836.60	WCDMA850 (WCP)	V	146	88	9.99	1.36	9.20	0.008	38.45	-29.26

Table 7-19. ERP Data (WCDMA Cell – Ant3)

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]
15MHz (Band 26 only)	QPSK	831.50	V	145	175	1.25	1 / 74	15.78	14.88	0.031	38.45	-23.57
	QPSK	836.50	V	146	175	1.35	1 / 37	15.79	14.99	0.032	38.45	-23.46
	QPSK	841.50	V	152	171	1.46	1 / 37	15.99	15.30	0.034	38.45	-23.15
	16-QAM	831.50	V	145	175	1.25	1 / 37	14.41	13.51	0.022	38.45	-24.94
	16-QAM	836.50	V	146	175	1.35	1 / 37	14.99	14.19	0.026	38.45	-24.26
10 MHz	16-QAM	841.50	V	152	171	1.46	1 / 37	15.03	14.34	0.027	38.45	-24.11
	QPSK	829.00	V	145	175	1.20	1 / 25	15.97	15.01	0.032	38.45	-23.44
	QPSK	836.50	V	146	175	1.35	1 / 25	15.92	15.12	0.033	38.45	-23.33
	QPSK	844.00	V	152	171	1.51	1 / 25	15.76	15.12	0.033	38.45	-23.33
5 MHz	16-QAM	844.00	V	152	171	1.51	1 / 25	14.93	14.29	0.027	38.45	-24.16
	QPSK	826.50	V	145	175	1.14	1 / 24	15.74	14.73	0.030	38.45	-23.72
	QPSK	836.50	V	146	175	1.35	1 / 12	15.85	15.05	0.032	38.45	-23.40
	QPSK	846.50	V	152	171	1.56	1 / 12	15.70	15.11	0.032	38.45	-23.34
3 MHz	16-QAM	846.50	V	152	171	1.56	1 / 12	14.84	14.25	0.027	38.45	-24.20
	QPSK	825.50	V	145	175	1.12	1 / 14	15.80	14.77	0.030	38.45	-23.68
	QPSK	836.50	V	146	175	1.35	1 / 14	15.92	15.12	0.033	38.45	-23.33
	QPSK	847.50	V	152	171	1.58	1 / 7	15.60	15.04	0.032	38.45	-23.41
1.4 MHz	16-QAM	836.50	V	146	175	1.35	1 / 14	14.66	13.87	0.024	38.45	-24.58
	QPSK	824.70	V	145	175	1.11	1 / 5	15.88	14.84	0.030	38.45	-23.61
	QPSK	836.50	V	146	175	1.35	1 / 0	15.73	14.94	0.031	38.45	-23.51
	QPSK	848.30	V	152	171	1.60	1 / 0	15.54	14.99	0.032	38.45	-23.46
15MHz	16-QAM	836.50	V	146	175	1.35	1 / 5	15.04	14.24	0.027	38.45	-24.21
	QPSK (Opposite Pol.)	841.50	H	116	263	1.62	0.00	11.90	11.37	0.014	38.45	-27.08
	QPSK (WCP)	841.50	V	248	49	1.35	0.00	12.70	11.90	0.015	38.45	-26.55

Table 7-20. ERP Data (LTE Band 26/5 – Ant3)

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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	142	101	1.30	1 / 1	14.04	13.19	0.021	38.45	-25.26
	$\pi/2$ BPSK	836.50	V	139	106	1.35	1 / 1	14.00	13.20	0.021	38.45	-25.25
	$\pi/2$ BPSK	839.00	V	145	113	1.41	1 / 1	14.15	13.41	0.022	38.45	-25.05
	QPSK	834.00	V	142	101	1.30	1 / 1	13.93	13.08	0.020	38.45	-25.37
	QPSK	836.50	V	139	106	1.35	1 / 1	13.89	13.09	0.020	38.45	-25.36
	QPSK	839.00	V	145	113	1.41	1 / 1	13.76	13.02	0.020	38.45	-25.44
15 MHz	16-QAM	836.50	V	139	106	1.35	1 / 1	12.98	12.18	0.017	38.45	-26.27
	$\pi/2$ BPSK	831.50	V	142	101	1.25	1 / 1	14.14	13.24	0.021	38.45	-25.21
	$\pi/2$ BPSK	836.50	V	139	106	1.35	1 / 1	14.02	13.22	0.021	38.45	-25.23
	$\pi/2$ BPSK	841.50	V	145	113	1.46	1 / 1	14.07	13.38	0.022	38.45	-25.08
	QPSK	831.50	V	142	101	1.25	1 / 1	14.07	13.17	0.021	38.45	-25.28
	QPSK	836.50	V	139	106	1.35	1 / 1	13.90	13.10	0.020	38.45	-25.35
10 MHz	QPSK	841.50	V	145	113	1.46	1 / 1	13.66	12.97	0.020	38.45	-25.49
	16-QAM	831.50	V	142	101	1.25	1 / 1	13.15	12.25	0.017	38.45	-26.20
	$\pi/2$ BPSK	829.00	V	142	101	1.20	1 / 1	14.27	13.32	0.021	38.45	-25.13
	$\pi/2$ BPSK	836.50	V	139	106	1.35	1 / 1	14.06	13.26	0.021	38.45	-25.19
	$\pi/2$ BPSK	844.00	V	145	113	1.51	1 / 1	13.99	13.35	0.022	38.45	-25.11
	QPSK	829.00	V	142	101	1.20	1 / 1	14.13	13.18	0.021	38.45	-25.27
5 MHz	QPSK	836.50	V	139	106	1.35	1 / 1	13.98	13.18	0.021	38.45	-25.27
	QPSK	844.00	V	145	113	1.51	1 / 1	13.57	12.93	0.020	38.45	-25.53
	16-QAM	829.00	V	142	101	1.20	1 / 1	13.30	12.35	0.017	38.45	-26.10
	$\pi/2$ BPSK	829.00	V	142	101	1.14	1 / 12	14.19	13.18	0.021	38.45	-25.27
	$\pi/2$ BPSK	836.50	V	139	106	1.35	1 / 1	14.08	13.28	0.021	38.45	-25.17
	$\pi/2$ BPSK	844.00	V	145	113	1.56	1 / 12	13.85	13.27	0.021	38.45	-25.19
#N/A	QPSK	829.00	V	142	101	1.14	1 / 1	14.00	12.99	0.020	38.45	-25.46
	QPSK	836.50	V	139	106	1.35	1 / 1	13.93	13.13	0.021	38.45	-25.32
	QPSK	844.00	V	145	113	1.56	1 / 1	13.50	12.92	0.020	38.45	-25.54
	16-QAM	836.50	V	139	106	1.35	1 / 1	13.06	12.26	0.017	38.45	-26.19
#N/A	QPSK (CP-OFDM)	839.00	V	142	104	1.41	1 / 1	13.01	12.27	0.017	38.45	-26.19
	QPSK (Opposite Pol.)	839.00	H	202	18	1.58	1 / 53	12.63	12.06	0.016	38.45	-26.39
	QPSK (WCP)	839.00	V	139	306	1.41	1 / 53	12.63	11.89	0.015	38.45	-26.57

Table 7-21. ERP Data (NR Band n5 – Ant3)

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7.7 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.

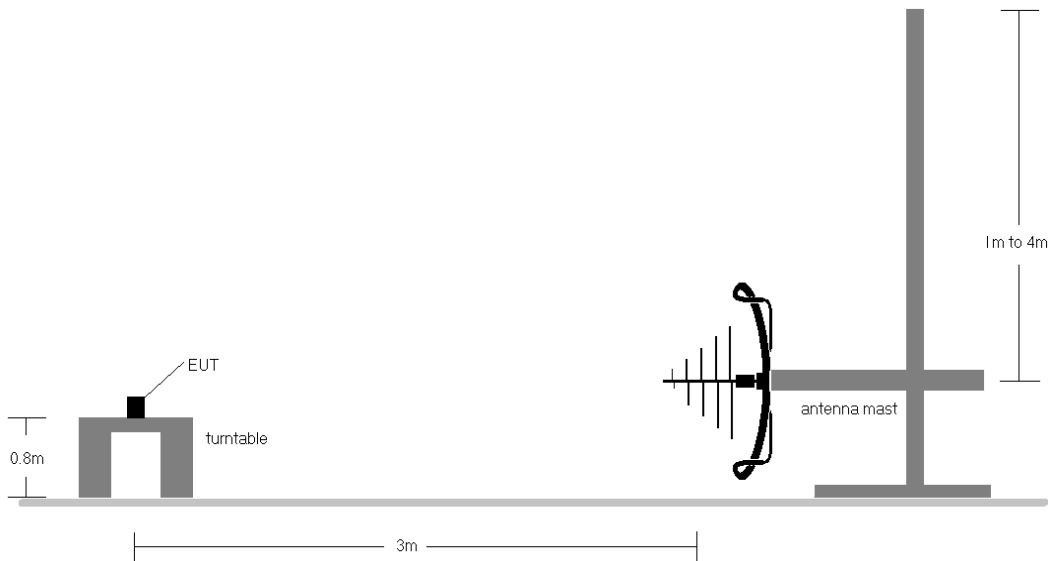


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

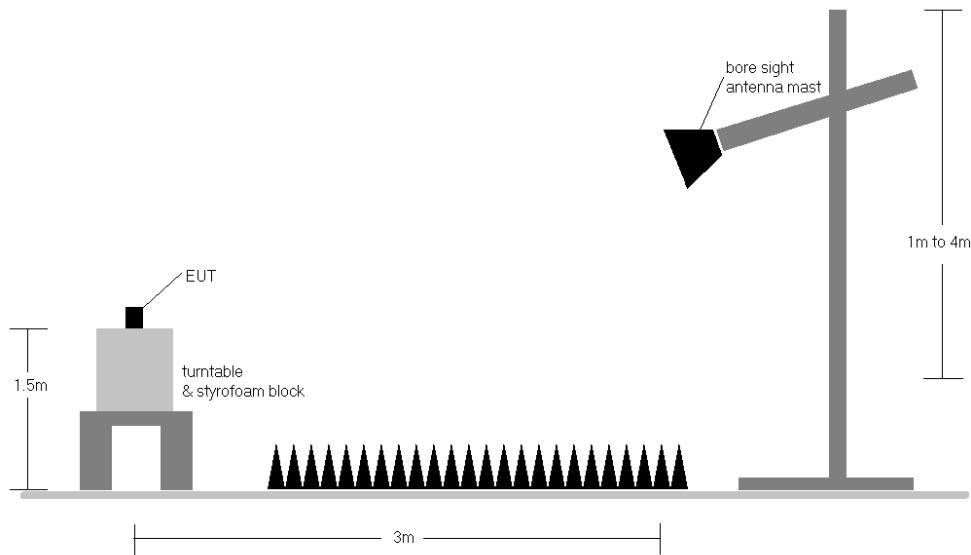


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

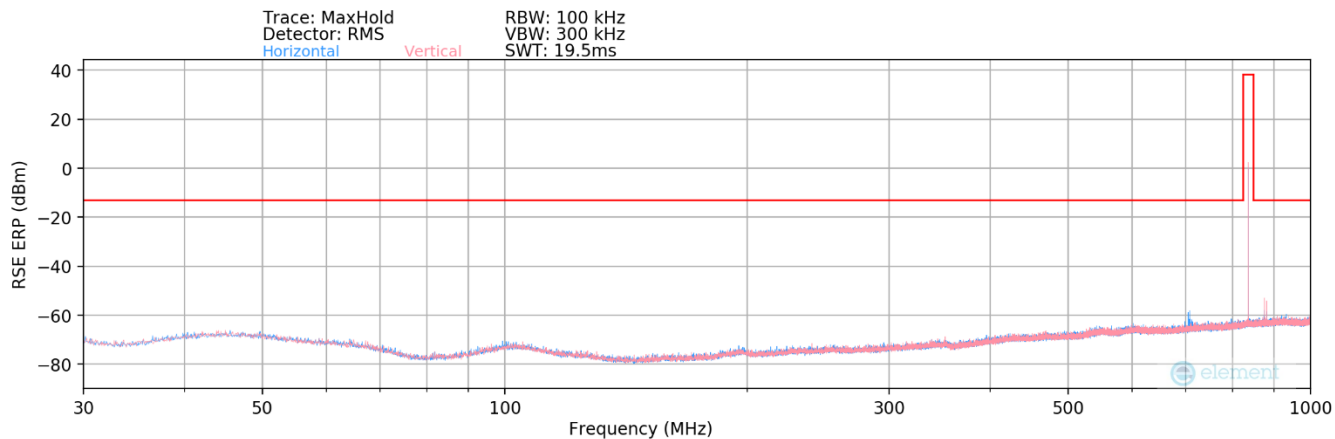
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Test Notes

- 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) 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 Cell – Ant1

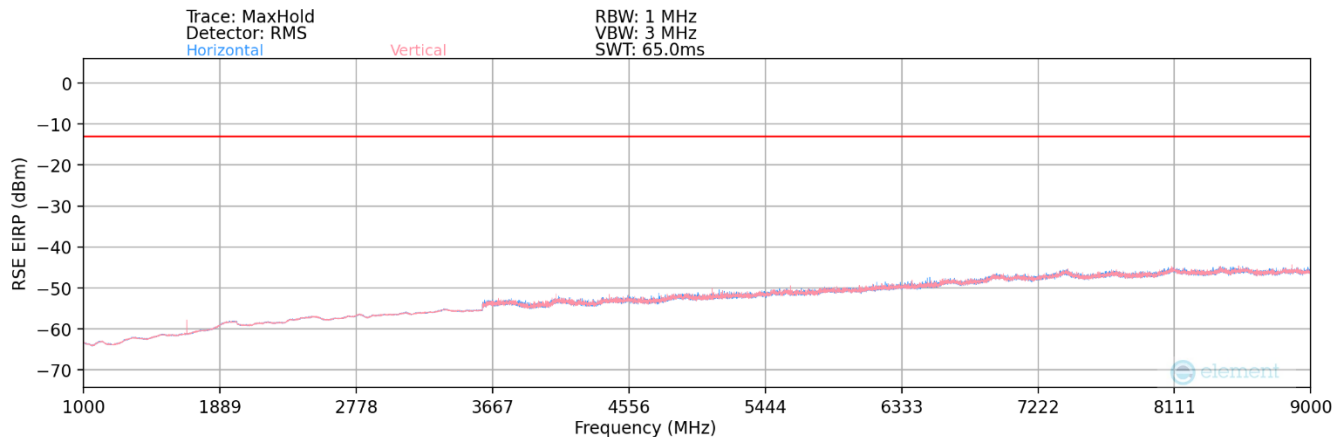


Plot 7-109. Radiated Spurious Plot (GPRS Cell – Ant1)

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]
418.00	V	-	-	-73.90	-8.05	25.05	-72.35	-13.00	-59.35

Table 7-22. Radiated Spurious Data (GPRS Cell – Ant1)



Plot 7-110. Radiated Spurious Plot (GPRS 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	V	174	39	-63.31	-1.07	42.62	-52.64	-13.00	-39.64
2472.60	V	375	281	-60.75	2.94	49.19	-46.07	-13.00	-33.07
3296.80	V	-	-	-67.78	4.47	43.69	-51.57	-13.00	-38.57
4121.00	V	-	-	-70.85	6.00	42.15	-53.11	-13.00	-40.11
4945.20	V	-	-	-70.63	7.10	43.47	-51.78	-13.00	-38.78

Table 7-23. 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	V	212	149	-62.46	-1.04	43.50	-51.76	-13.00	-38.76
2509.80	V	225	304	-62.36	3.26	47.90	-47.36	-13.00	-34.36
3346.40	V	-	-	-67.45	5.07	44.62	-50.64	-13.00	-37.64
4183.00	V	-	-	-70.43	5.63	42.20	-53.06	-13.00	-40.06
5019.60	V	-	-	-70.60	7.02	43.42	-51.84	-13.00	-38.84

Table 7-24. 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	V	248	312	-62.54	-0.89	43.57	-51.69	-13.00	-38.69
2546.40	V	220	296	-63.13	2.78	46.65	-48.61	-13.00	-35.61
3395.20	V	-	-	-67.65	4.76	44.11	-51.14	-13.00	-38.14
4244.00	V	-	-	-70.68	5.60	41.92	-53.33	-13.00	-40.33
5092.80	V	-	-	-70.72	7.21	43.49	-51.76	-13.00	-38.76

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

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