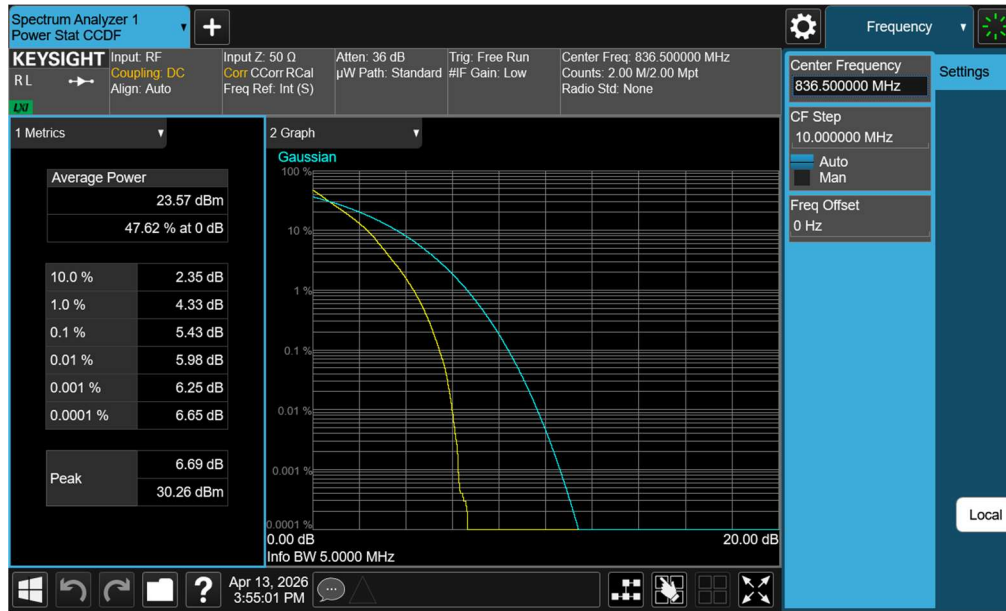
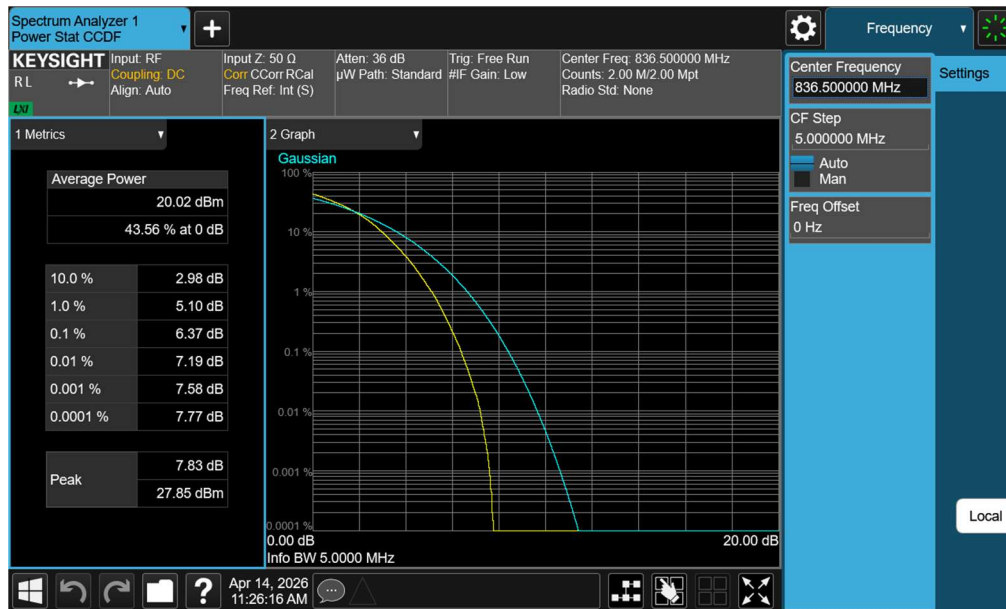


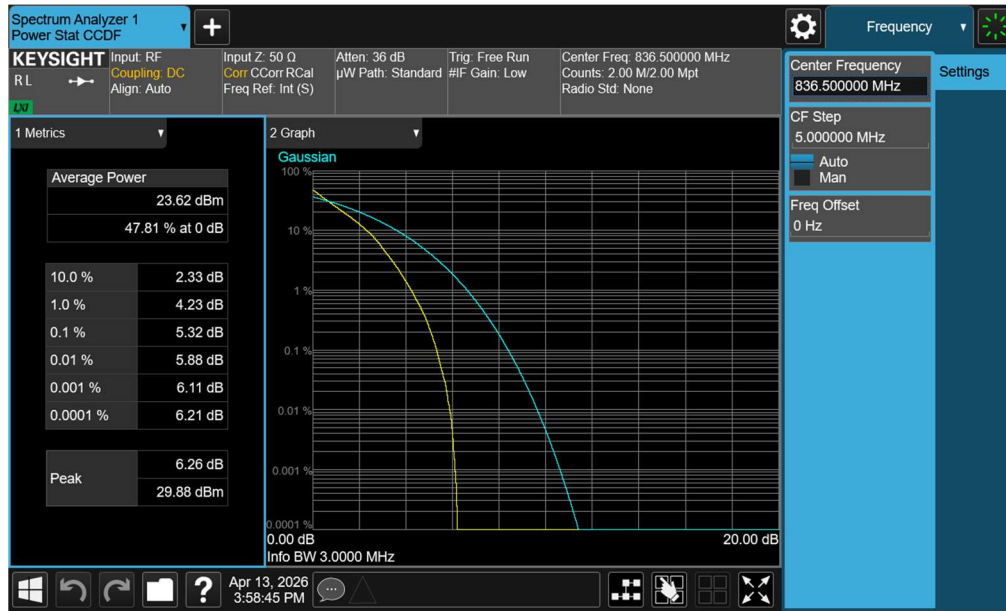


Plot 7-123. PAR Plot (LTE Band 26/5 – 5MHz QPSK – Full RB – Ant2)

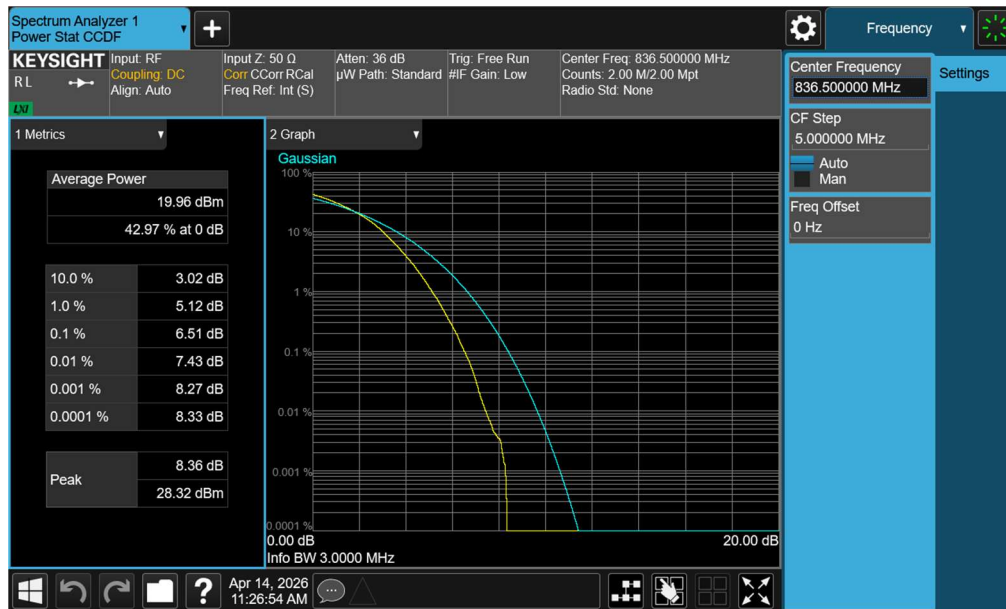


Plot 7-124. PAR Plot (LTE Band 26/5 – 5MHz 256-QAM – Full RB – Ant2)

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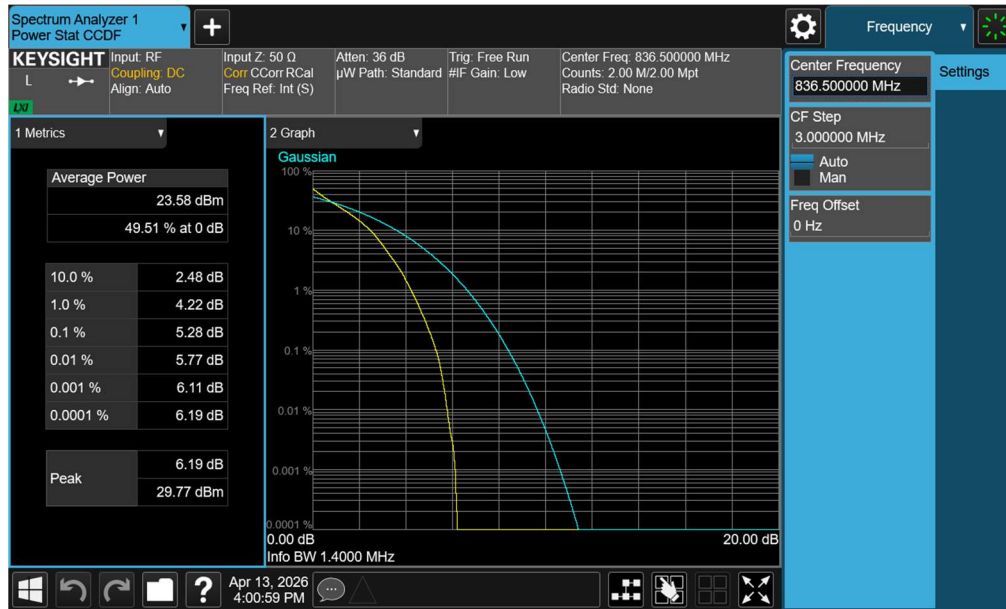


Plot 7-125. PAR Plot (LTE Band 26/5 – 3MHz QPSK – Full RB – Ant2)

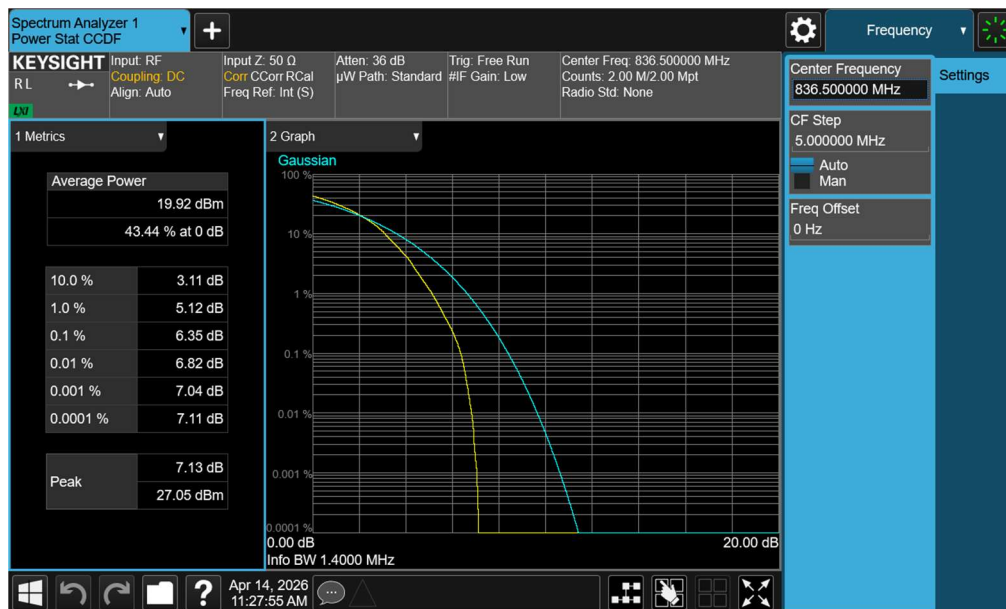


Plot 7-126. PAR Plot (LTE Band 26/5 – 3MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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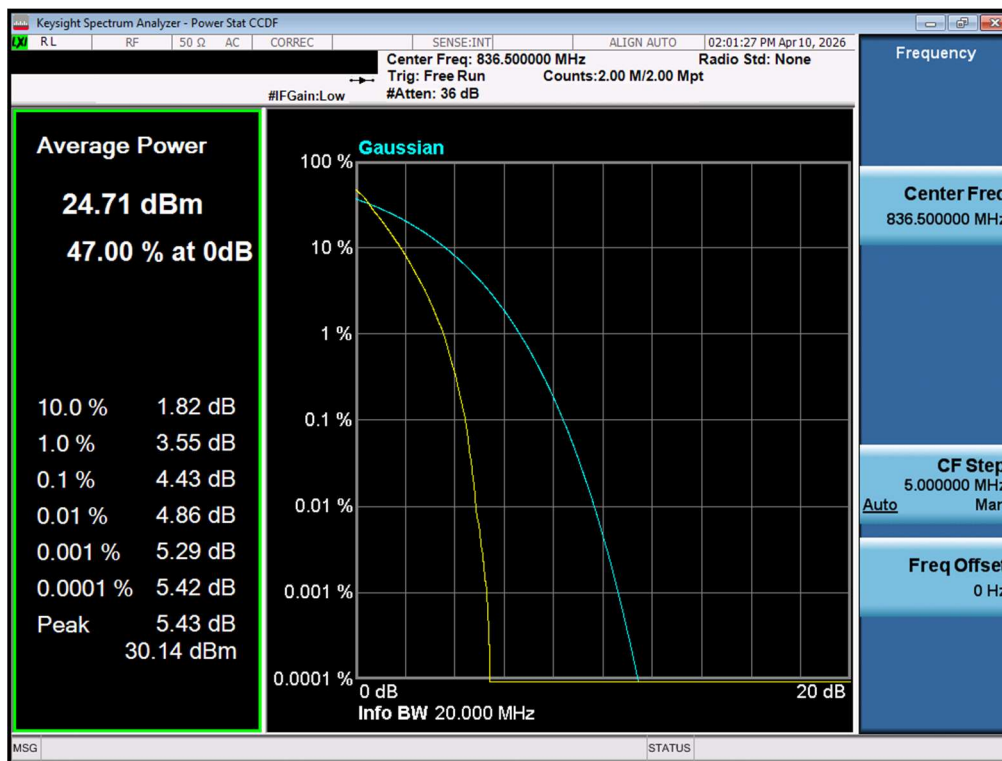
Plot 7-127. PAR Plot (LTE Band 26/5 – 1.4MHz QPSK – Full RB – Ant2)



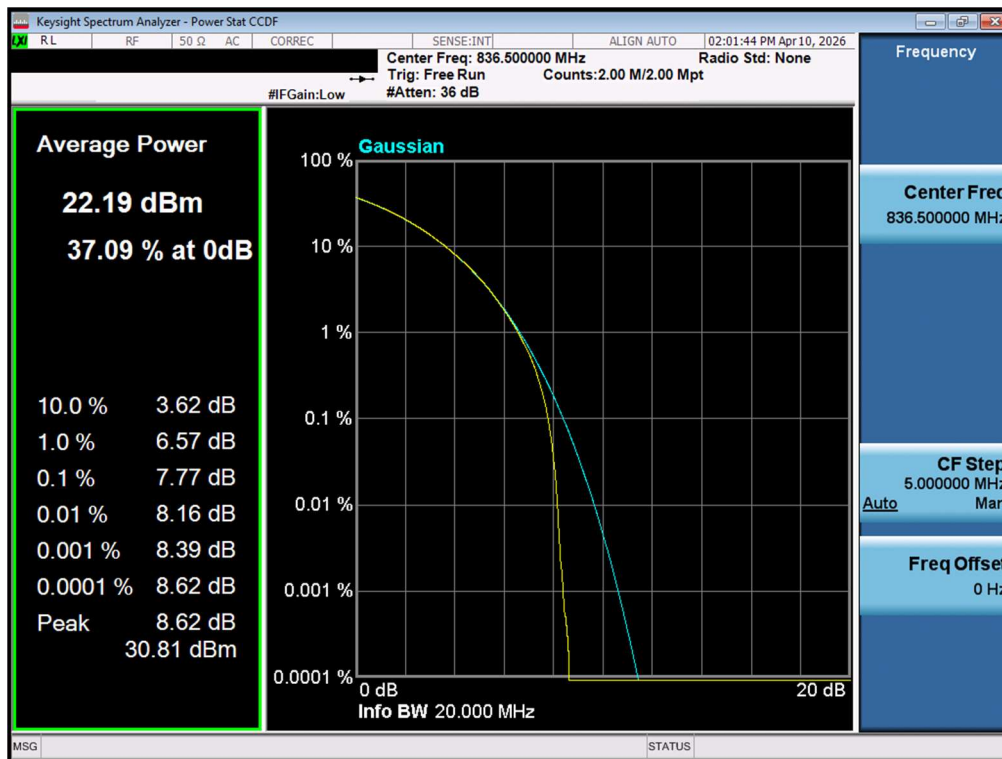
Plot 7-128. PAR Plot (LTE Band 26/5 – 1.4MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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NR Band n5 – Ant2

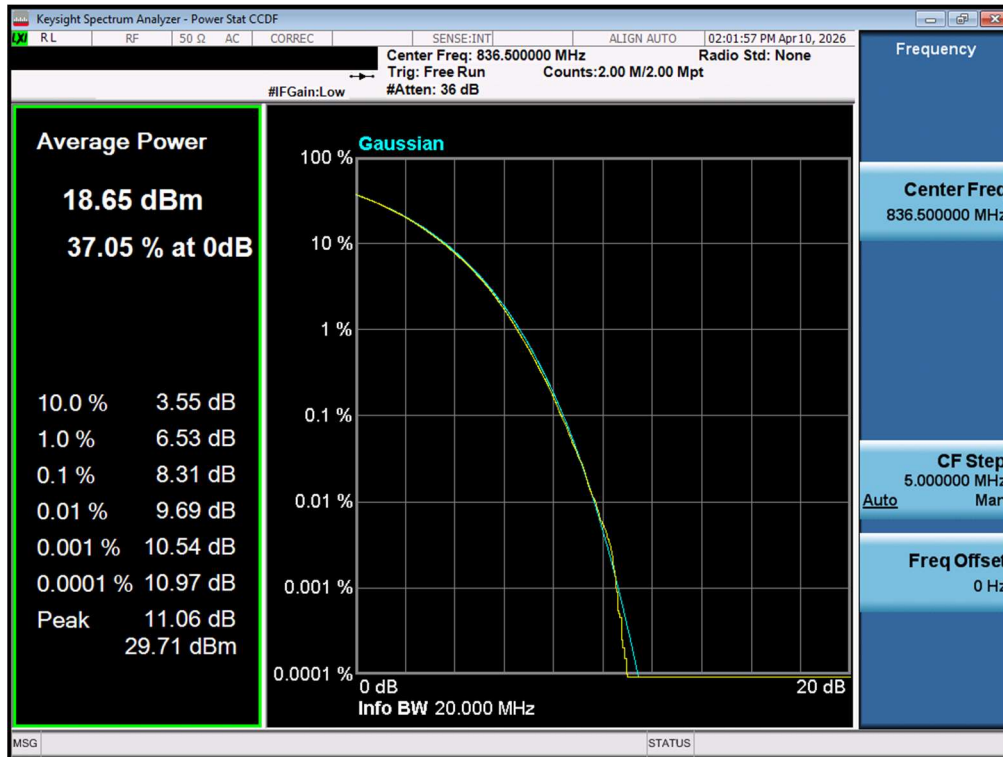


Plot 7-129. PAR Plot (NR Band n5 - 20MHz $\pi/2$ BPSK – Full RB – Ant2)

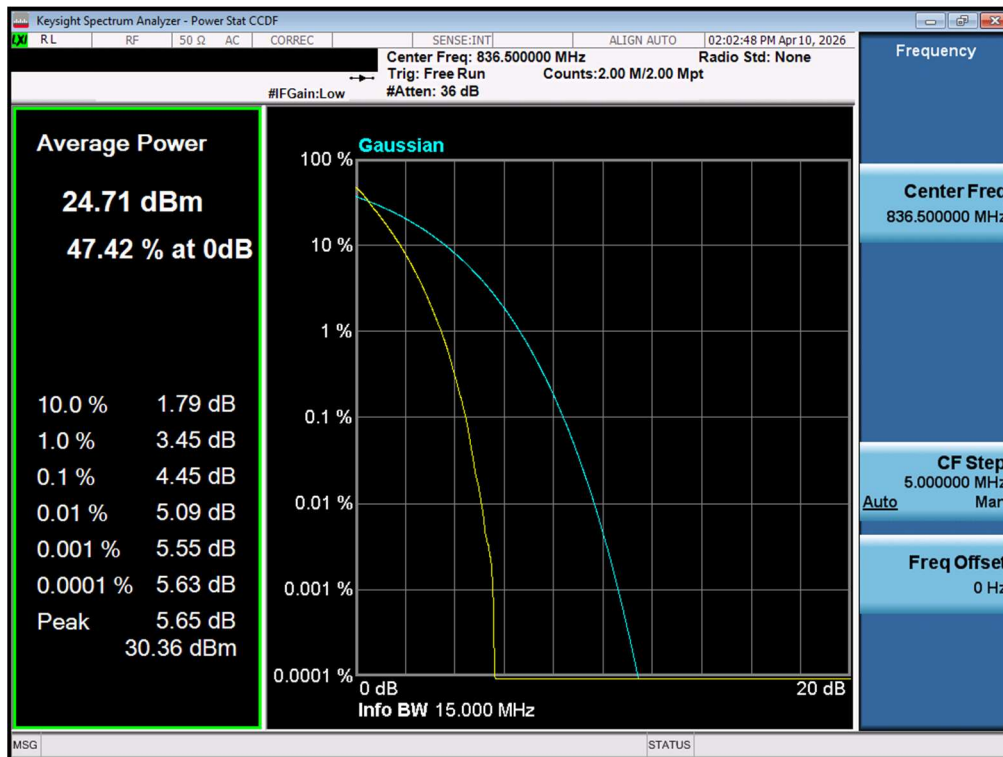


Plot 7-130. PAR Plot (NR Band n5 - 20MHz QPSK – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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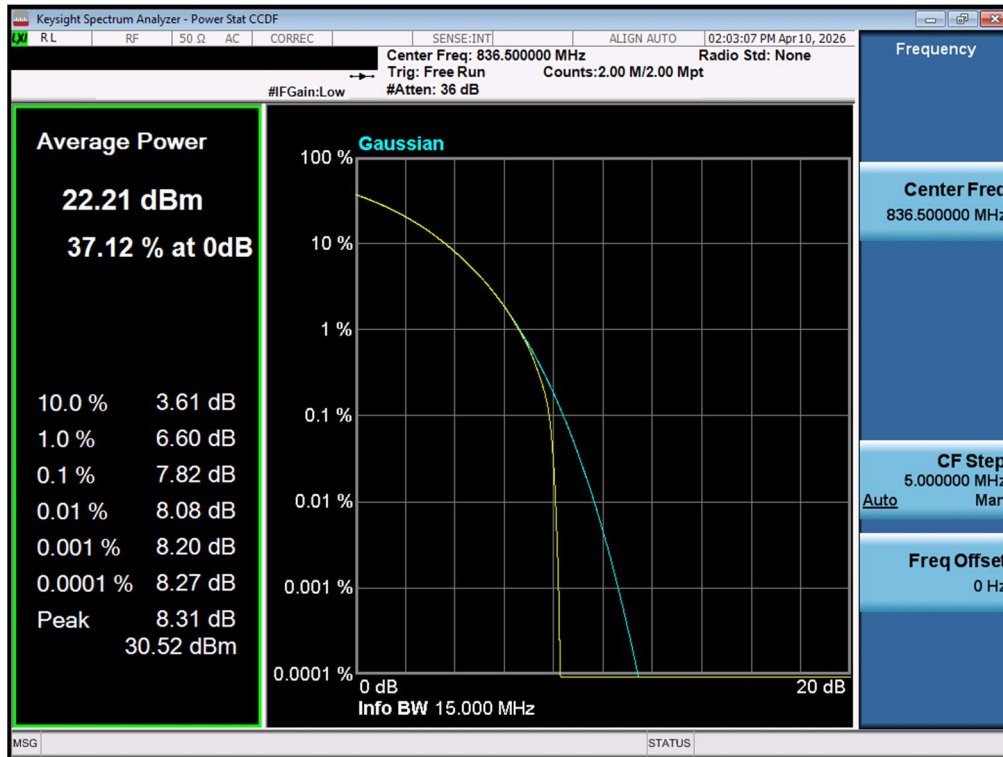


Plot 7-131. PAR Plot (NR Band n5 - 20MHz 256-QAM – Full RB – Ant2)

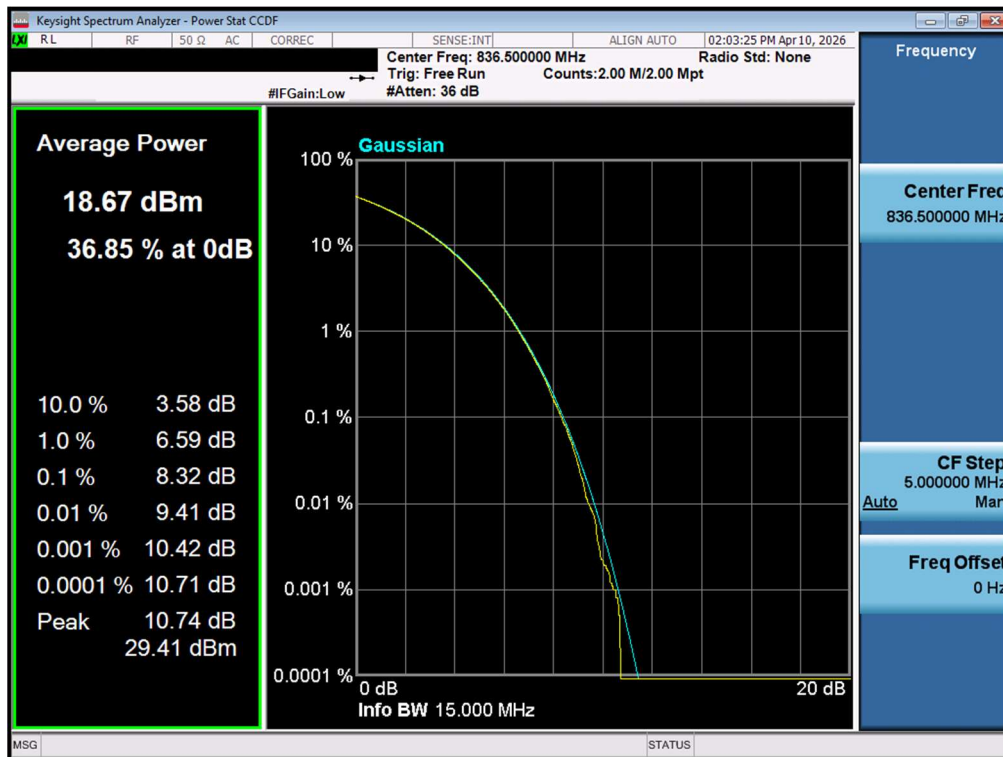


Plot 7-132. PAR Plot (NR Band n5 - 15MHz $\pi/2$ BPSK – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
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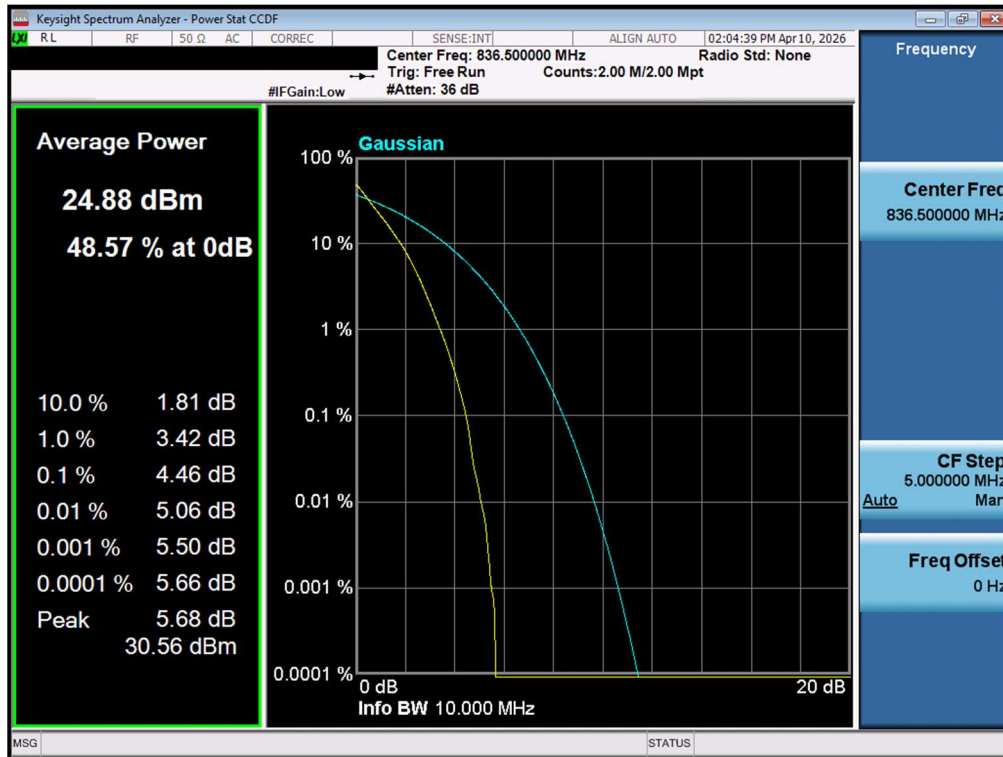


Plot 7-133. PAR Plot (NR Band n5 - 15MHz QPSK – Full RB – Ant2)

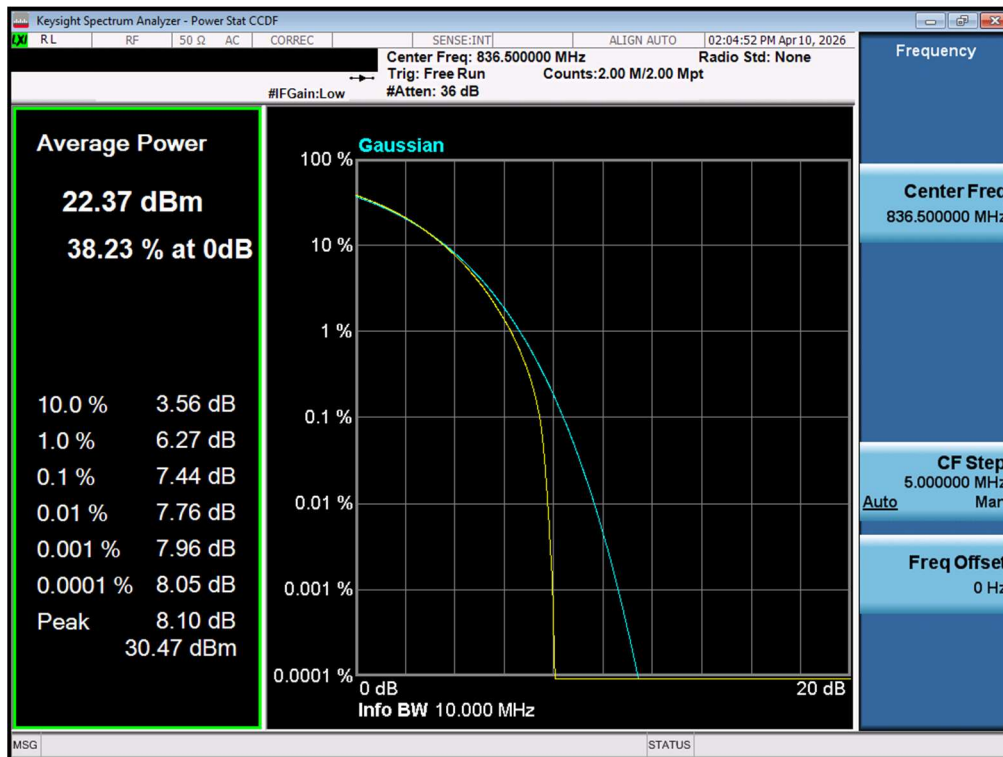


Plot 7-134. PAR Plot (NR Band n5 - 15MHz 256-QAM – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2603110020-05-R2.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 104 of 138

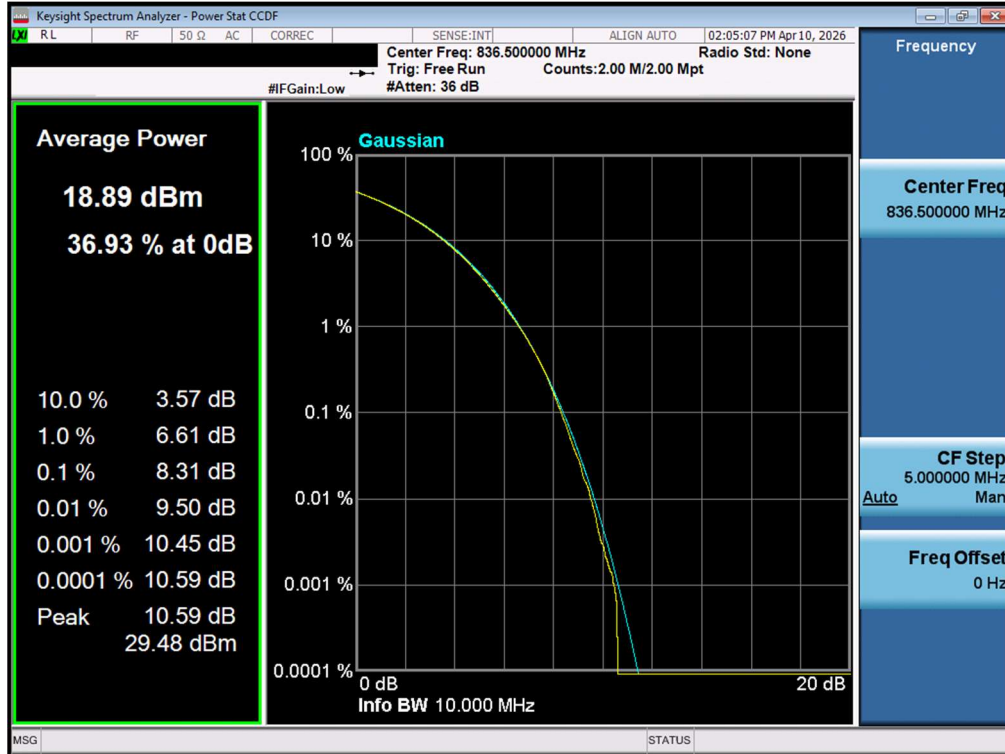


Plot 7-135. PAR Plot (NR Band n5 - 10MHz $\pi/2$ BPSK – Full RB – Ant2)

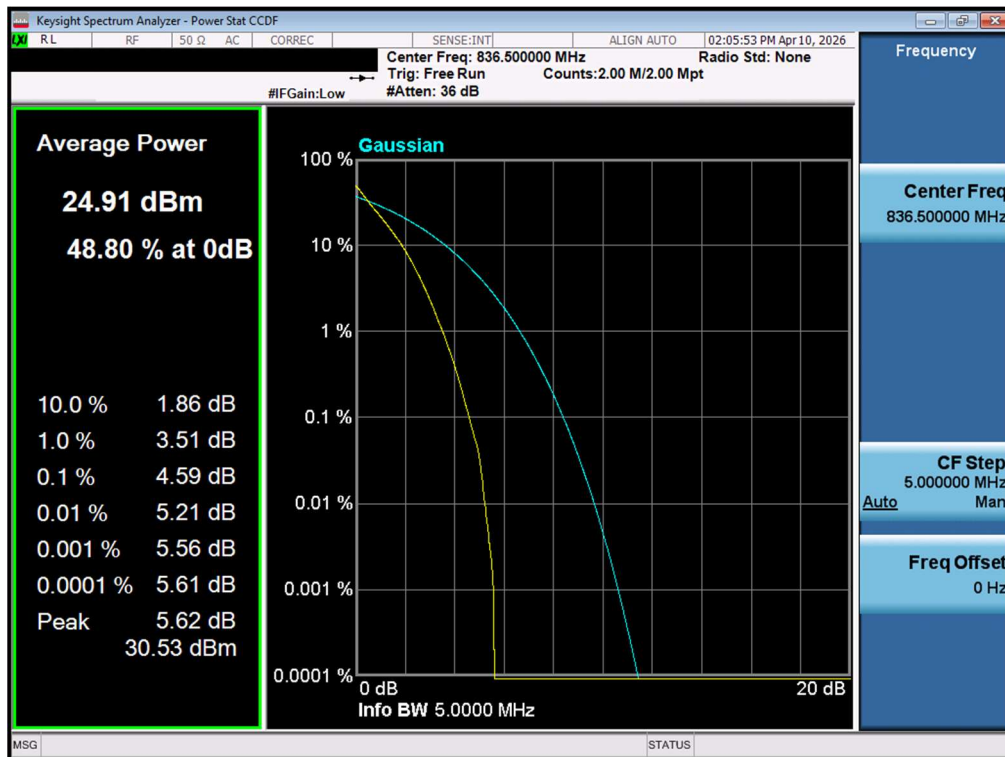


Plot 7-136. PAR Plot (NR Band n5 - 10MHz QPSK – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2603110020-05-R2.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 105 of 138

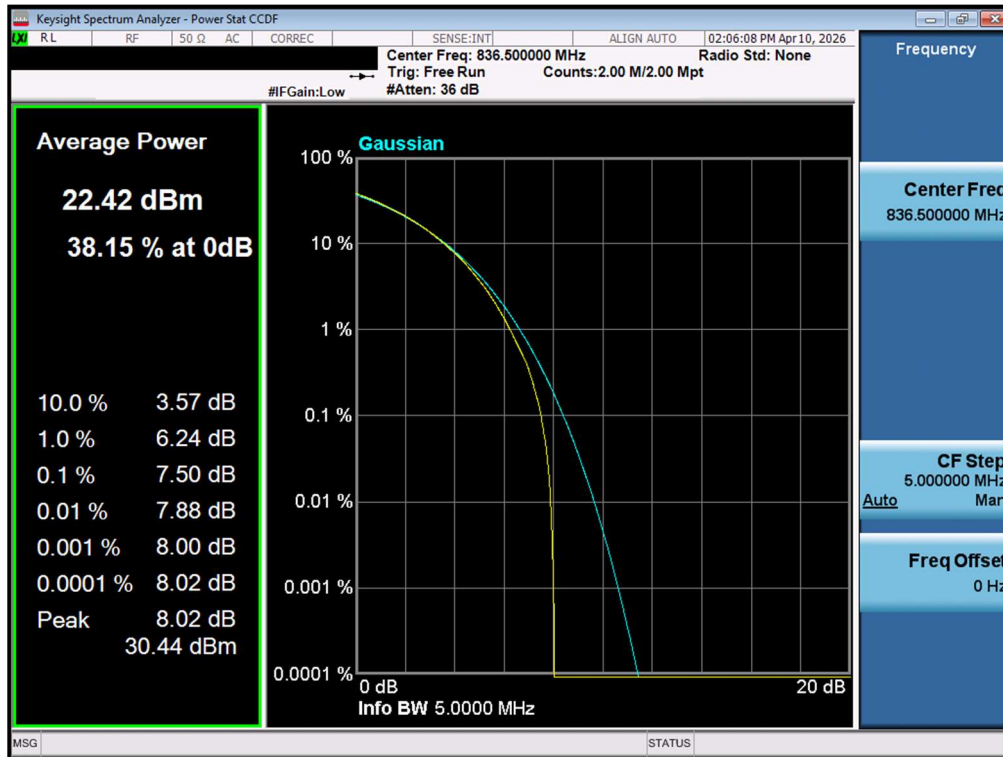


Plot 7-137. PAR Plot (NR Band n5 - 10MHz 256-QAM – Full RB – Ant2)

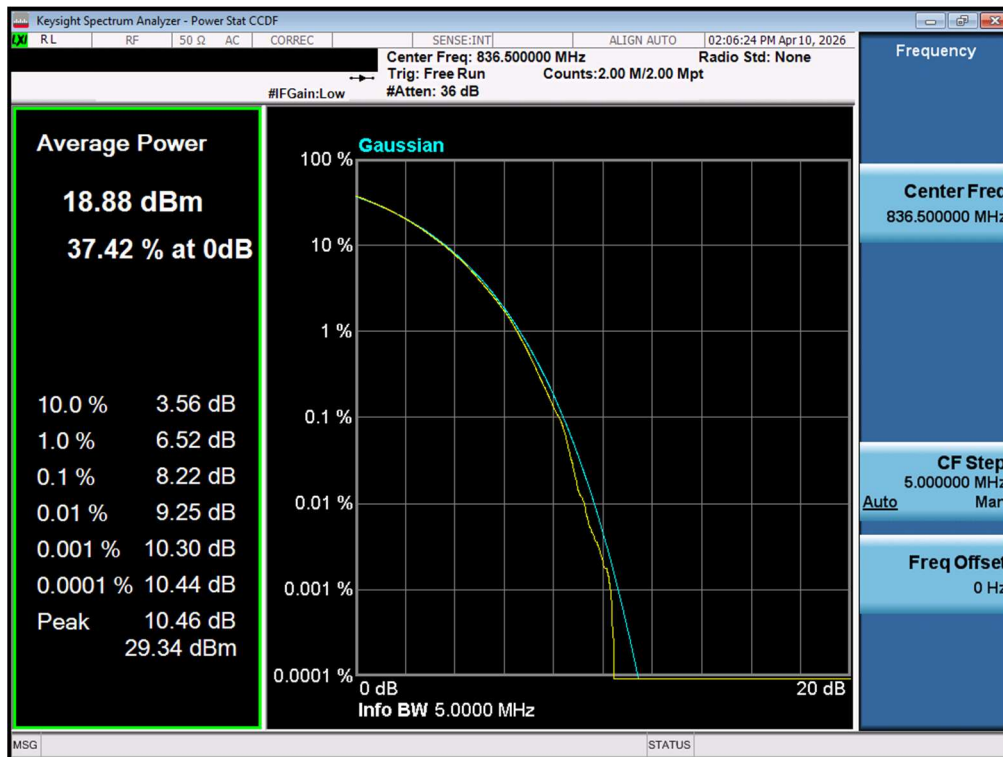


Plot 7-138. PAR Plot (NR Band n5 - 5MHz $\pi/2$ BPSK – Full RB – Ant2)

FCC ID: A3LSMF776B	PART 22 MEASUREMENT REPORT	Test Dates: 4/09/2026 - 4/16/2026	EUT Type: Portable Handset	Approved by: Technical Manager
Test Report S/N: 1M2603110020-05-R2.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 106 of 138



Plot 7-139. PAR Plot (NR Band n5 - 5MHz QPSK – Full RB – Ant2)



Plot 7-140. PAR Plot (NR Band n5 - 5MHz 256-QAM – Full RB – Ant2)

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Test Report S/N: 1M2603110020-05-R2.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 107 of 138

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.

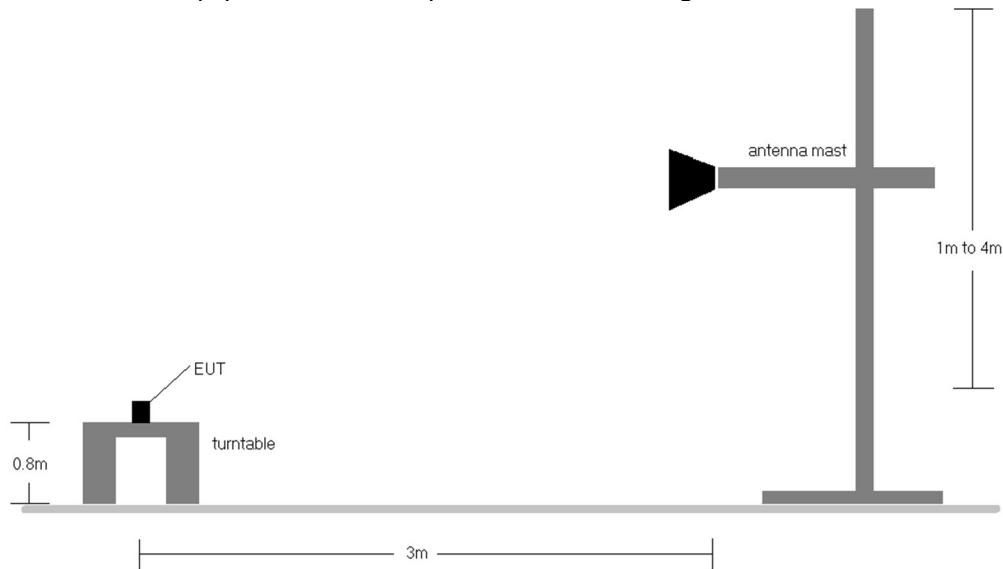


Figure 7-6. Radiated Test Setup < 1GHz

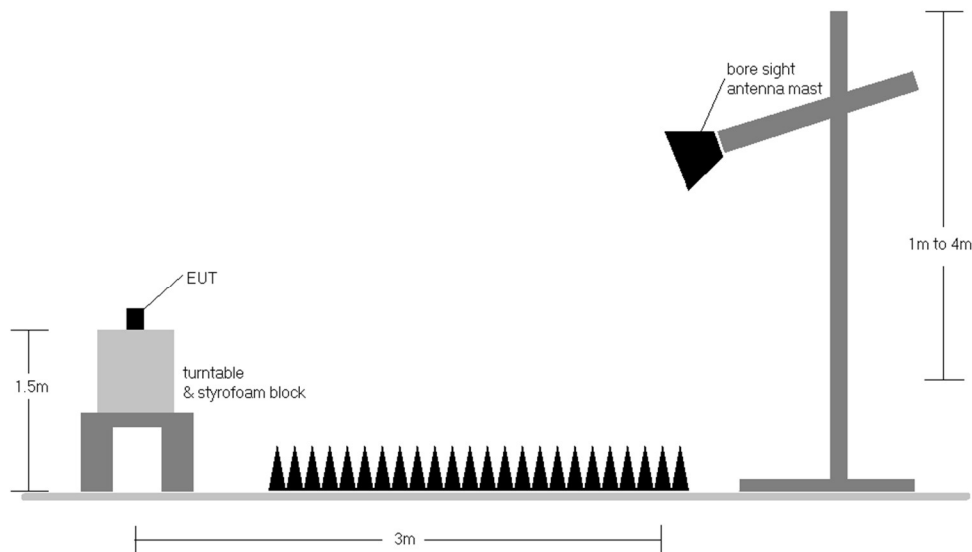


Figure 7-7. Radiated Test Setup > 1GHz

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	113	281	27.38	1.05	26.28	0.424	38.45	-12.17
836.60	GSM850	H	115	288	27.01	1.08	25.94	0.392	38.45	-12.52
848.80	GSM850	H	115	287	25.53	1.10	24.48	0.281	38.45	-13.97
824.20	GSM850	V	146	263	25.79	1.08	24.72	0.296	38.45	-13.74
824.20	EDGE850	H	109	288	21.05	1.08	19.98	0.099	38.45	-18.48
824.20	GSM850 (WCP)	H	114	279	24.73	1.08	23.66	0.232	38.45	-14.80

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	112	287	20.02	1.05	18.92	0.078	38.45	-19.53
836.60	WCDMA850	H	113	295	18.66	1.08	17.59	0.057	38.45	-20.87
846.60	WCDMA850	H	111	292	18.35	1.10	17.30	0.054	38.45	-21.15
826.40	WCDMA850	V	150	273	17.36	1.05	16.26	0.042	38.45	-22.19
826.40	WCDMA850 (WCP)	H	113	285	18.66	1.05	17.56	0.057	38.45	-20.89

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]
15MHz (Band 26 only)	QPSK	831.50	H	109	287	1.06	1 / 0	20.00	18.91	0.078	38.45	-19.54
	QPSK	836.50	H	113	295	1.08	1 / 0	19.60	18.53	0.071	38.45	-19.93
	QPSK	841.50	H	114	290	1.09	1 / 0	19.20	18.14	0.065	38.45	-20.31
	16-QAM	831.50	H	109	287	1.06	1 / 0	19.13	18.04	0.064	38.45	-20.41
10 MHz	QPSK	829.00	H	109	287	1.06	1 / 0	19.84	18.74	0.075	38.45	-19.71
	QPSK	836.50	H	113	295	1.08	1 / 49	19.52	18.45	0.070	38.45	-20.01
	QPSK	844.00	H	114	290	1.09	1 / 25	19.08	18.03	0.063	38.45	-20.42
	16-QAM	829.00	H	109	287	1.06	1 / 0	18.90	17.80	0.060	38.45	-20.65
5 MHz	QPSK	826.50	H	109	287	1.05	1 / 24	19.83	18.73	0.075	38.45	-19.72
	QPSK	836.50	H	113	295	1.08	1 / 12	19.57	18.50	0.071	38.45	-19.96
	QPSK	846.50	H	114	290	1.10	1 / 12	19.08	18.03	0.063	38.45	-20.42
	16-QAM	826.50	H	109	287	1.05	1 / 24	18.92	17.82	0.061	38.45	-20.63
3 MHz	QPSK	825.50	H	109	287	1.05	1 / 0	19.88	18.78	0.076	38.45	-19.67
	QPSK	836.50	H	113	295	1.08	1 / 7	19.64	18.57	0.072	38.45	-19.89
	QPSK	847.50	H	114	290	1.10	1 / 7	19.02	17.97	0.063	38.45	-20.48
	16-QAM	825.50	H	109	287	1.05	1 / 0	18.74	17.64	0.058	38.45	-20.81
1.4 MHz	QPSK	824.70	H	109	287	1.05	1 / 3	19.83	18.72	0.075	38.45	-19.73
	QPSK	836.50	H	113	295	1.08	1 / 3	19.53	18.46	0.070	38.45	-20.00
	QPSK	848.30	H	114	290	1.10	1 / 3	19.01	17.97	0.063	38.45	-20.48
	16-QAM	824.70	H	109	287	1.05	1 / 3	18.69	17.58	0.057	38.45	-20.87
15 MHz	QPSK (Opposite Pol.)	831.50	V	152	276	1.06	1 / 74	18.14	17.05	0.051	38.45	-21.40
	QPSK (WCP)	831.50	H	108	283	1.06	1 / 0	17.46	16.37	0.043	38.45	-22.08

Table 7-18. ERP Data (LTE Band 26/5) – 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	H	113	292	1.07	1 / 1	19.53	18.45	0.070	38.45	-20.00
	$\pi/2$ BPSK	836.50	H	112	283	1.08	1 / 53	19.46	18.39	0.069	38.45	-20.07
	$\pi/2$ BPSK	839.00	H	120	287	1.08	1 / 53	18.09	17.02	0.050	38.45	-21.43
	QPSK	834.00	H	113	292	1.07	1 / 53	19.66	18.58	0.072	38.45	-19.87
	QPSK	836.50	H	112	283	1.08	1 / 53	19.48	18.41	0.069	38.45	-20.05
	QPSK	839.00	H	120	287	1.08	1 / 53	18.29	17.22	0.053	38.45	-21.23
15 MHz	16-QAM	834.00	H	113	292	1.07	1 / 53	17.72	16.64	0.046	38.45	-21.81
	$\pi/2$ BPSK	831.50	H	113	292	1.06	1 / 77	19.58	18.49	0.071	38.45	-19.96
	$\pi/2$ BPSK	836.50	H	112	283	1.08	1 / 39	19.58	18.51	0.071	38.45	-19.95
	$\pi/2$ BPSK	841.50	H	120	287	1.09	1 / 39	17.93	16.87	0.049	38.45	-21.58
	QPSK	831.50	H	113	292	1.06	1 / 77	19.60	18.51	0.071	38.45	-19.94
	QPSK	836.50	H	112	283	1.08	1 / 39	19.52	18.45	0.070	38.45	-20.01
10 MHz	QPSK	841.50	H	120	287	1.09	1 / 39	18.12	17.06	0.051	38.45	-21.39
	16-QAM	831.50	H	113	292	1.06	1 / 77	17.90	16.81	0.048	38.45	-21.64
	$\pi/2$ BPSK	829.00	H	113	292	1.06	1 / 50	19.54	18.45	0.070	38.45	-20.00
	$\pi/2$ BPSK	836.50	H	112	283	1.08	1 / 26	19.44	18.37	0.069	38.45	-20.09
	$\pi/2$ BPSK	844.00	H	120	287	1.09	1 / 50	18.01	16.95	0.050	38.45	-21.50
	QPSK	829.00	H	113	292	1.06	1 / 50	19.59	18.50	0.071	38.45	-19.95
5 MHz	QPSK	836.50	H	112	283	1.08	1 / 26	19.31	18.24	0.067	38.45	-20.22
	QPSK	844.00	H	120	287	1.09	1 / 50	18.10	17.04	0.051	38.45	-21.41
	16-QAM	844.00	H	120	287	1.09	1 / 50	16.61	15.55	0.036	38.45	-22.90
	$\pi/2$ BPSK	829.00	H	113	292	1.05	1 / 12	19.49	18.39	0.069	38.45	-20.06
	$\pi/2$ BPSK	836.50	H	112	283	1.08	1 / 12	19.56	18.49	0.071	38.45	-19.97
	$\pi/2$ BPSK	844.00	H	120	287	1.10	1 / 12	18.05	17.00	0.050	38.45	-21.45
20 MHz	QPSK	829.00	H	113	292	1.05	1 / 12	19.55	18.45	0.070	38.45	-20.00
	QPSK	836.50	H	112	283	1.08	1 / 12	19.37	18.30	0.068	38.45	-20.16
	QPSK	844.00	H	120	287	1.10	1 / 12	18.20	17.15	0.052	38.45	-21.30
	16-QAM	844.00	H	120	287	1.10	1 / 12	16.34	15.29	0.034	38.45	-23.16
20 MHz	QPSK (CP-OFDM)	834.00	H	115	286	1.07	1 / 53	18.00	16.92	0.049	38.45	-21.53
	QPSK (Opposite Pol.)	834.00	V	150	264	1.07	1 / 53	18.22	17.14	0.052	38.45	-21.31
	QPSK (WCP)	834.00	H	116	290	1.07	1 / 53	17.33	16.25	0.042	38.45	-22.20

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	110	116	24.70	1.05	23.60	0.229	38.45	-14.85
836.60	GSM850	H	111	101	25.32	1.08	24.25	0.266	38.45	-14.21
848.80	GSM850	H	110	114	23.74	1.10	22.69	0.186	38.45	-15.76
836.60	GSM850	V	128	28	20.25	1.08	19.18	0.083	38.45	-19.28
836.60	EDGE850	H	111	101	19.70	1.08	18.63	0.073	38.45	-19.83
836.60	GSM850 (WCP)	H	112	104	23.76	1.08	22.69	0.186	38.45	-15.77

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	108	99	15.54	1.05	14.44	0.028	38.45	-24.01
836.60	WCDMA850	H	111	109	15.76	1.08	14.69	0.029	38.45	-23.77
846.60	WCDMA850	H	113	102	14.37	1.10	13.32	0.021	38.45	-25.13
836.60	WCDMA850	V	143	33	10.65	1.05	9.55	0.009	38.45	-28.90
836.60	WCDMA850 (WCP)	H	110	112	14.80	1.05	13.70	0.023	38.45	-24.75

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]
15MHz (Band 26 only)	QPSK	831.50	H	110	111	1.06	1 / 37	16.85	15.76	0.038	38.45	-22.69
	QPSK	836.50	H	111	107	1.08	1 / 0	16.91	15.84	0.038	38.45	-22.62
	QPSK	841.50	H	114	105	1.09	1 / 0	16.74	15.68	0.037	38.45	-22.77
	16-QAM	836.50	H	111	107	1.08	1 / 0	15.94	14.87	0.031	38.45	-23.59
10 MHz	QPSK	829.00	H	110	111	0.00	1 / 49	17.85	15.70	0.037	38.45	-22.75
	QPSK	836.50	H	111	107	0.00	1 / 0	17.87	15.72	0.037	38.45	-22.74
	QPSK	844.00	H	114	105	0.00	1 / 0	17.76	15.61	0.036	38.45	-22.84
	16-QAM	836.50	H	111	107	0.00	1 / 0	16.93	14.78	0.030	38.45	-23.68
5 MHz	QPSK	826.50	H	110	111	0.00	1 / 0	17.95	15.80	0.038	38.45	-22.65
	QPSK	836.50	H	111	107	0.00	1 / 0	18.03	15.88	0.039	38.45	-22.58
	QPSK	846.50	H	114	105	0.00	1 / 0	18.00	15.85	0.038	38.45	-22.60
	16-QAM	836.50	H	111	107	0.00	1 / 0	17.00	14.85	0.031	38.45	-23.61
3 MHz	QPSK	825.50	H	110	111	0.00	1 / 7	18.09	15.94	0.039	38.45	-22.51
	QPSK	836.50	H	111	107	0.00	1 / 7	18.08	15.93	0.039	38.45	-22.53
	QPSK	847.50	H	114	105	0.00	1 / 14	17.81	15.66	0.037	38.45	-22.79
	16-QAM	836.50	H	111	107	0.00	1 / 7	17.00	14.85	0.031	38.45	-23.61
1.4 MHz	QPSK	824.70	H	110	111	0.00	1 / 0	17.90	15.75	0.038	38.45	-22.70
	QPSK	836.50	H	111	107	0.00	1 / 3	18.10	15.95	0.039	38.45	-22.51
	QPSK	848.30	H	114	105	0.00	1 / 3	17.75	15.60	0.036	38.45	-22.85
	16-QAM	824.70	H	110	111	0.00	1 / 0	16.92	14.77	0.030	38.45	-23.68
15MHz	QPSK (Opposite Pol.)	836.50	V	143	28	1.08	0.00	11.92	10.85	0.012	38.45	-27.61
	QPSK (WCP)	836.50	H	108	107	1.08	0.00	16.56	15.49	0.035	38.45	-22.97

Table 7-22. 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	$\pi/2$ BPSK	834.00	H	111	116	1.07	1 / 53	16.84	15.76	0.038	38.45	-22.69
	$\pi/2$ BPSK	836.50	H	111	102	1.08	1 / 53	16.79	15.72	0.037	38.45	-22.74
	$\pi/2$ BPSK	839.00	H	111	104	1.08	1 / 53	16.52	15.45	0.035	38.45	-23.00
	QPSK	834.00	H	111	116	1.07	1 / 53	16.79	15.71	0.037	38.45	-22.74
	QPSK	836.50	H	111	102	1.08	1 / 53	17.08	16.01	0.040	38.45	-22.45
	QPSK	839.00	H	111	104	1.08	1 / 53	16.66	15.59	0.036	38.45	-22.86
15 MHz	16-QAM	836.50	H	111	102	1.08	1 / 53	15.96	14.89	0.031	38.45	-23.57
	$\pi/2$ BPSK	831.50	H	111	116	1.07	1 / 39	16.96	15.88	0.039	38.45	-22.57
	$\pi/2$ BPSK	836.50	H	111	102	1.08	1 / 39	16.90	15.83	0.038	38.45	-22.63
	$\pi/2$ BPSK	841.50	H	111	104	1.08	1 / 39	16.48	15.41	0.035	38.45	-23.04
	QPSK	831.50	H	111	116	1.07	1 / 39	16.85	15.77	0.038	38.45	-22.68
	QPSK	836.50	H	111	102	1.08	1 / 39	17.16	16.09	0.041	38.45	-22.37
10 MHz	QPSK	841.50	H	111	104	1.08	1 / 39	16.63	15.56	0.036	38.45	-22.89
	16-QAM	836.50	H	111	102	1.08	1 / 39	15.82	14.75	0.030	38.45	-23.71
	$\pi/2$ BPSK	829.00	H	111	116	1.07	1 / 26	16.82	15.74	0.037	38.45	-22.71
	$\pi/2$ BPSK	836.50	H	111	102	1.08	1 / 50	16.77	15.70	0.037	38.45	-22.76
	$\pi/2$ BPSK	844.00	H	111	104	1.08	1 / 26	16.46	15.39	0.035	38.45	-23.06
	QPSK	829.00	H	111	116	1.07	1 / 26	16.86	15.78	0.038	38.45	-22.67
5 MHz	QPSK	836.50	H	111	102	1.08	1 / 50	16.95	15.88	0.039	38.45	-22.58
	QPSK	844.00	H	111	104	1.08	1 / 26	16.61	15.54	0.036	38.45	-22.91
	16-QAM	836.50	H	111	102	1.08	1 / 50	16.04	14.97	0.031	38.45	-23.49
	$\pi/2$ BPSK	829.00	H	111	116	1.07	1 / 12	16.97	15.89	0.039	38.45	-22.56
	$\pi/2$ BPSK	836.50	H	111	102	1.08	1 / 12	16.86	15.79	0.038	38.45	-22.67
	$\pi/2$ BPSK	844.00	H	111	104	1.08	1 / 12	16.71	15.64	0.037	38.45	-22.81
20 MHz	QPSK	829.00	H	111	116	1.07	1 / 12	16.99	15.91	0.039	38.45	-22.54
	QPSK	836.50	H	111	102	1.08	1 / 12	17.13	16.06	0.040	38.45	-22.40
	QPSK	844.00	H	111	104	1.08	1 / 12	16.89	15.82	0.038	38.45	-22.63
	16-QAM	836.50	H	111	102	1.08	1 / 12	16.10	15.03	0.032	38.45	-23.43
	QPSK (CP-OFDM)	836.50	H	111	107	1.08	1/53	15.33	14.26	0.027	38.45	-24.20
	QPSK (Opposite Pol.)	836.50	V	141	18	1.08	1/53	11.65	10.58	0.011	38.45	-27.88
20 MHz	QPSK (WCP)	836.50	H	111	102	1.08	1/53	16.34	15.27	0.034	38.45	-23.19

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.

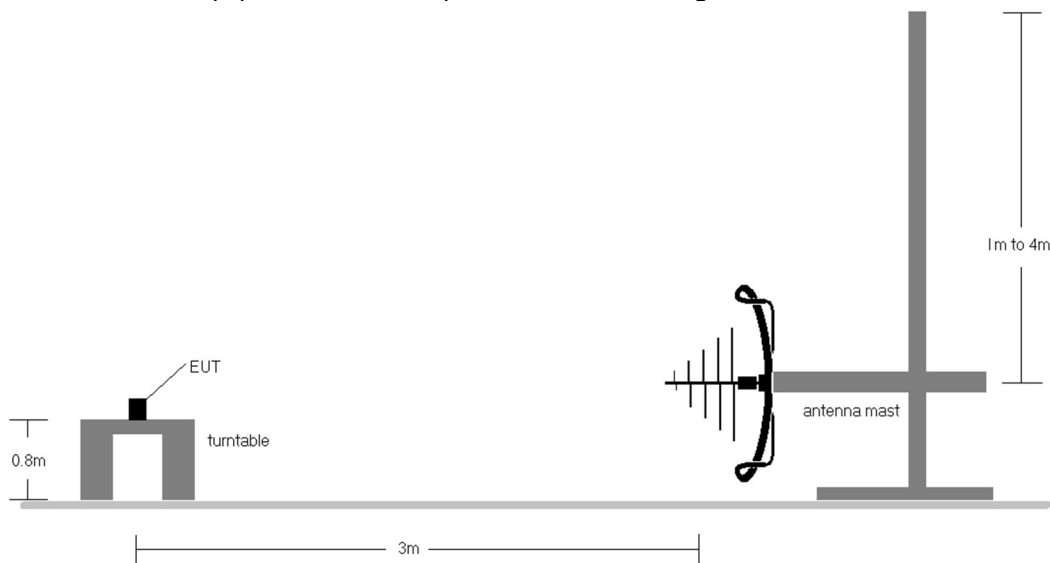


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

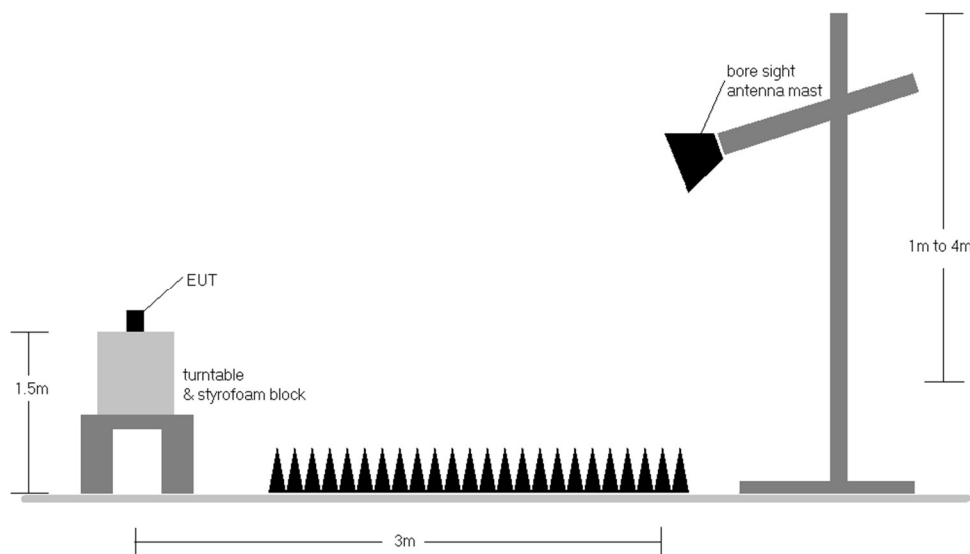


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

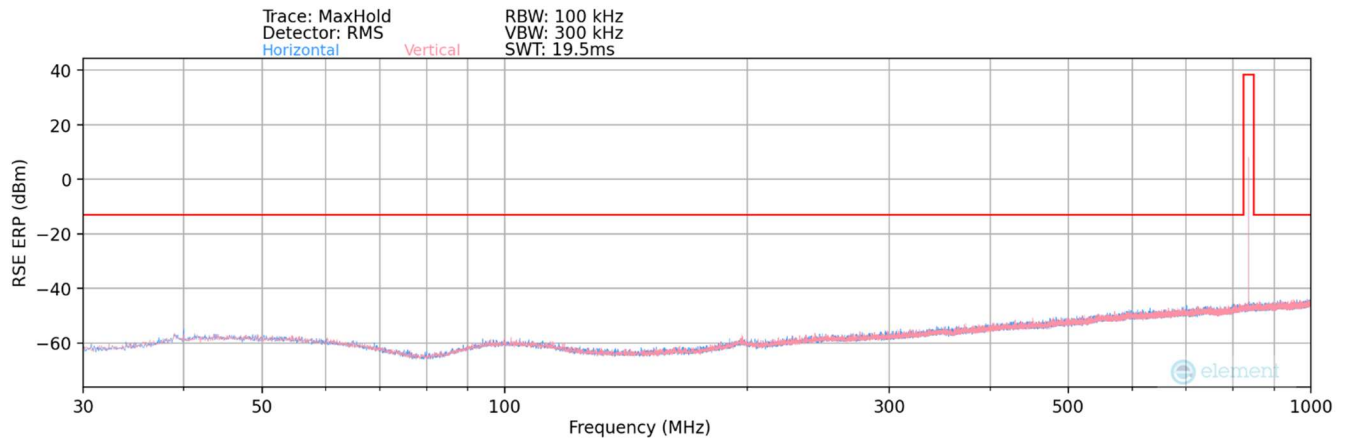
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Test Notes

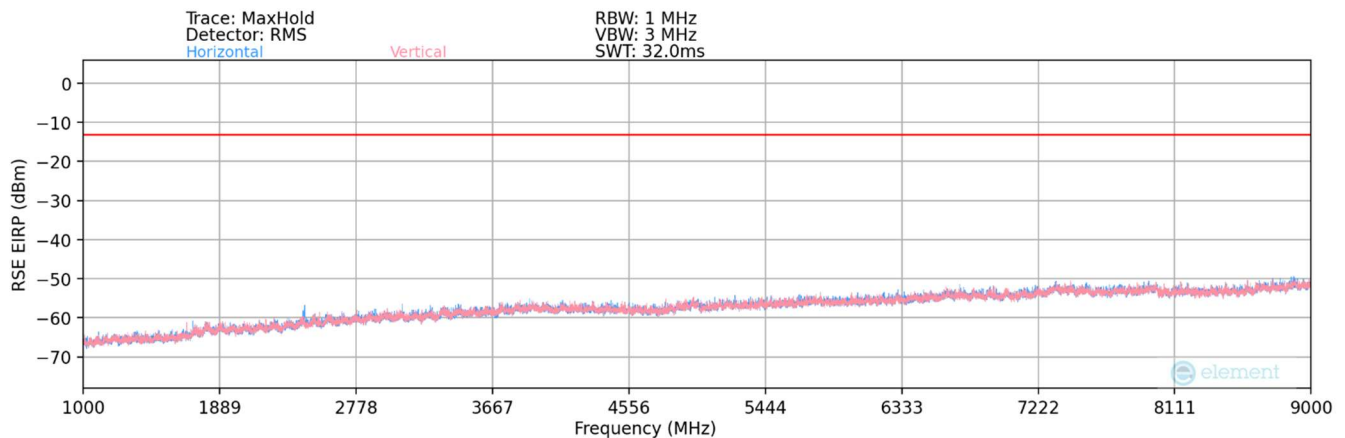
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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) 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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GPS Cell – Ant1



Plot 7-141. Radiated Spurious Plot (GPS Cell) – Ant1



Plot 7-142. Radiated Spurious Plot (GPS 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]
585.00	H	-	-	-89.25	26.40	44.15	-53.26	-13.00	-40.26
697.00	H	-	-	-89.95	28.23	45.28	-52.13	-13.00	-39.13
763.00	H	-	-	-90.63	28.89	45.26	-52.15	-13.00	-39.15

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

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