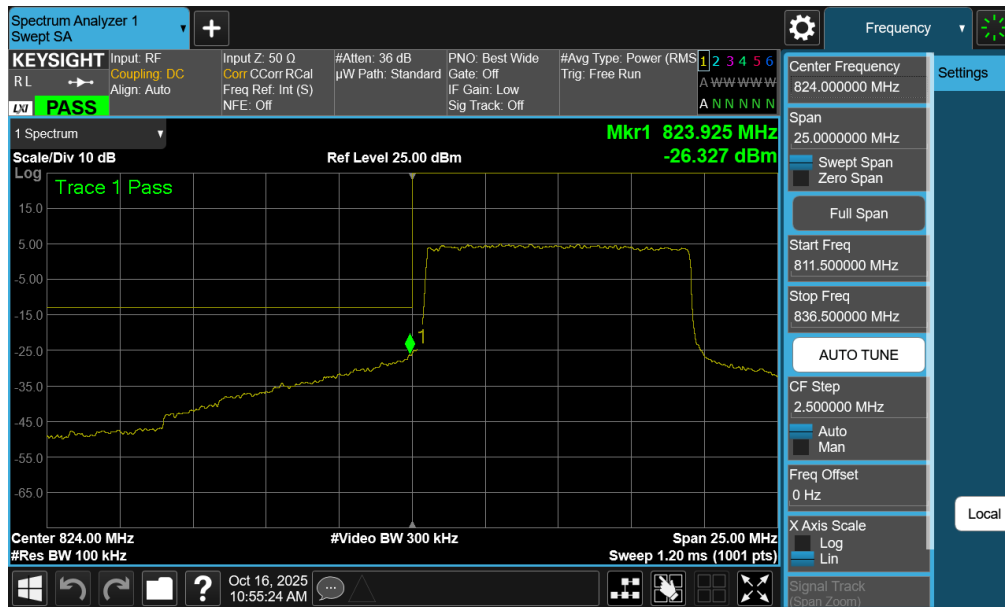
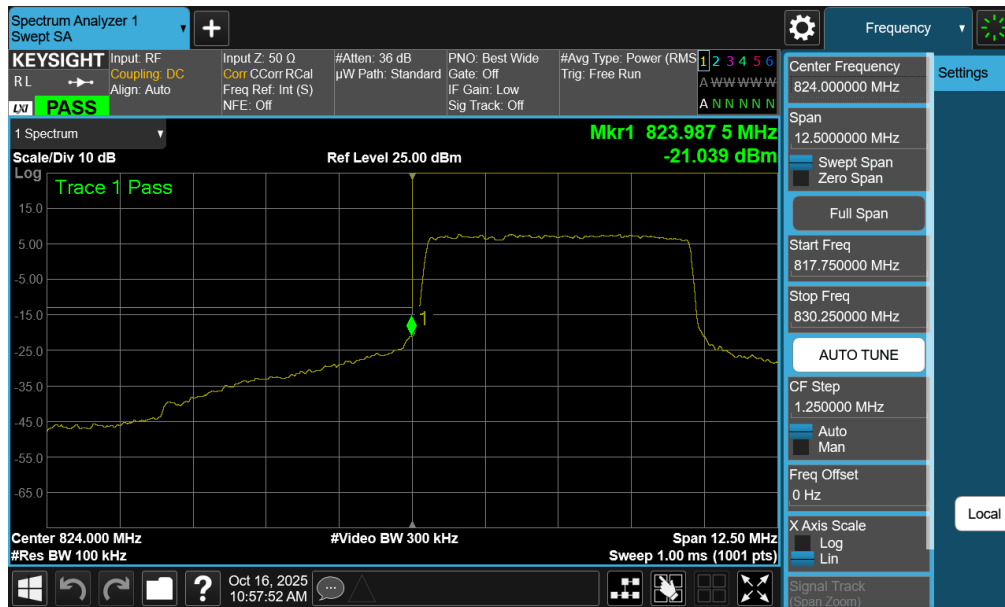
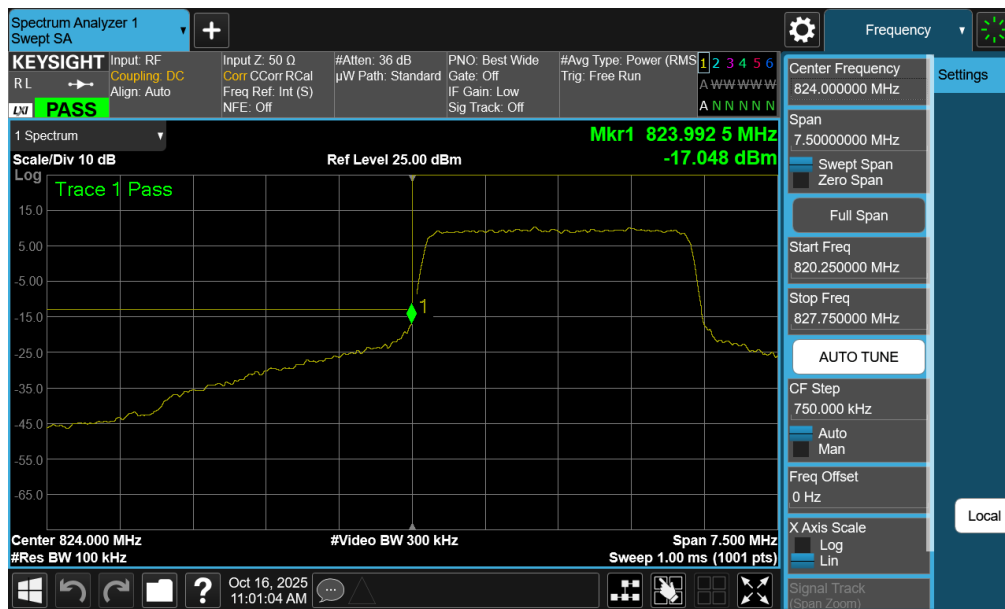




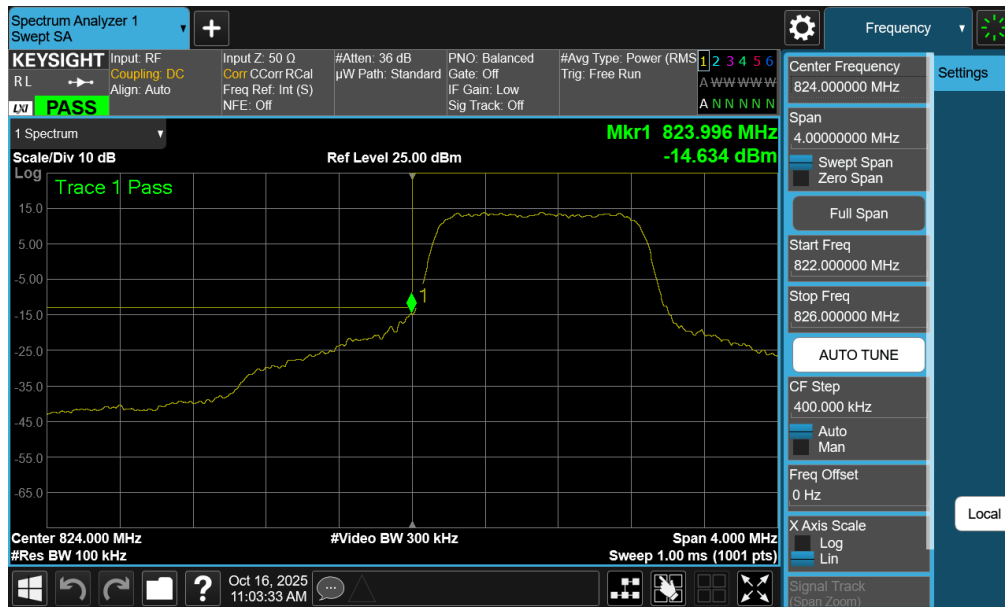
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 106 of 165



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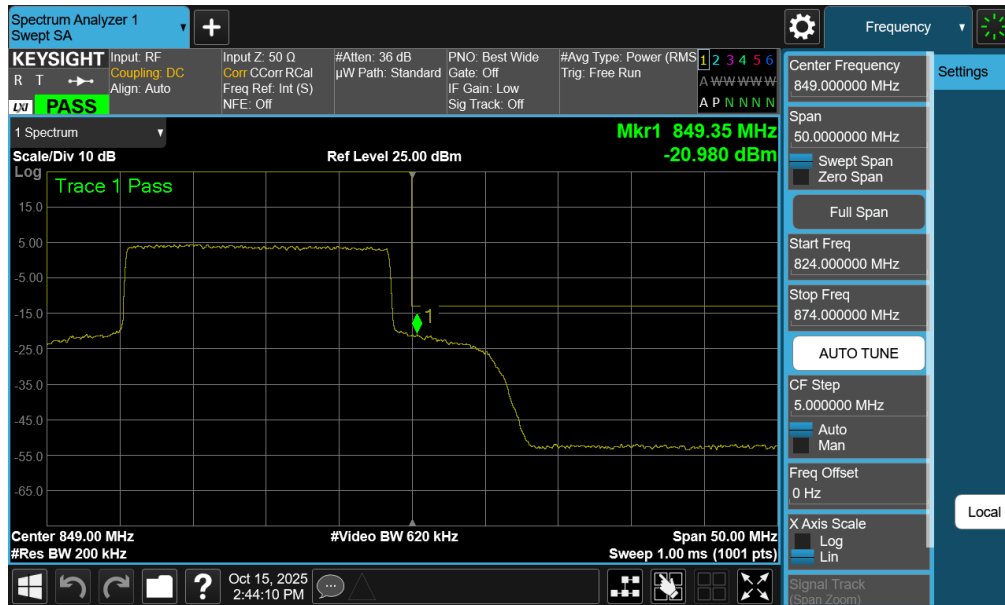


FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 109 of 165

NR Band n5 – Ant2

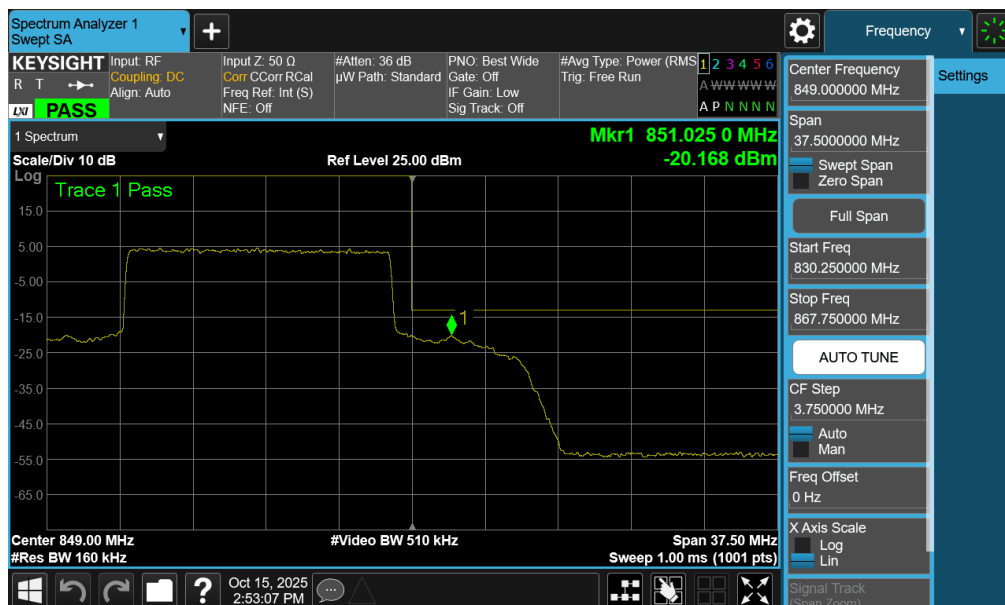
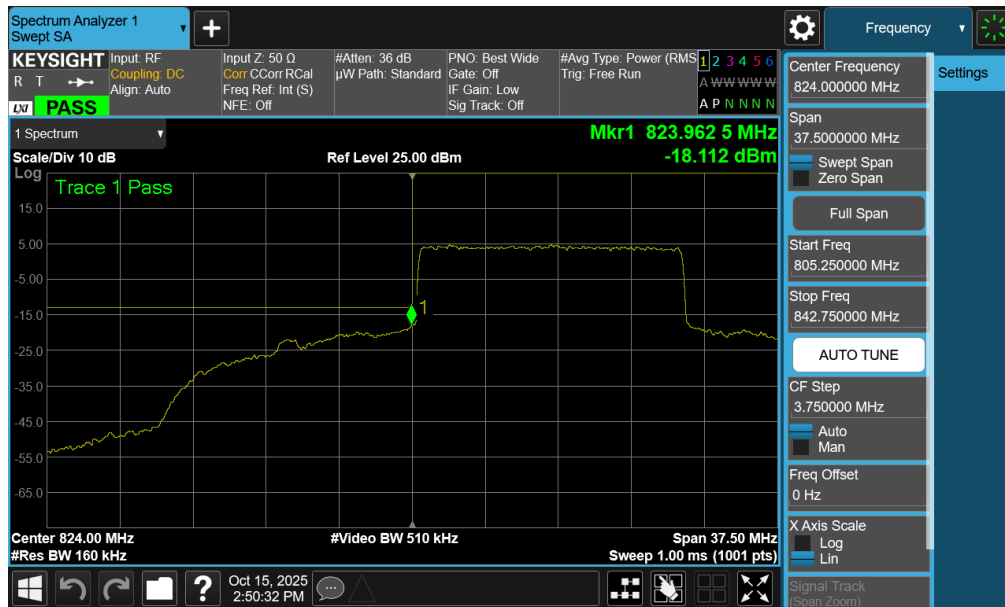


Plot 7-155. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB - Ant2)

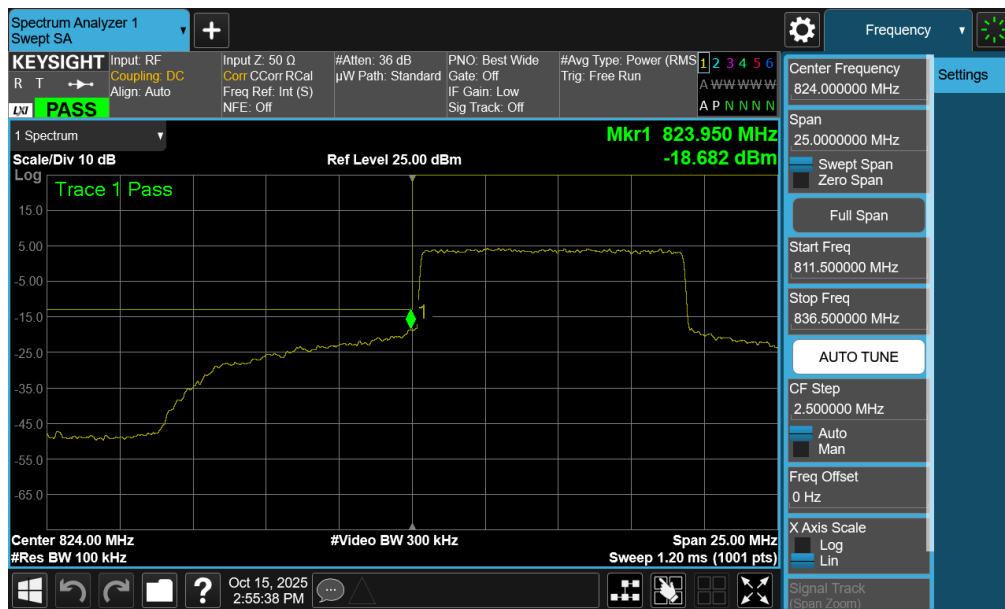


Plot 7-156. Upper Band Edge Plot (NR Band n5 – 20.0MHz - Full RB - Ant2)

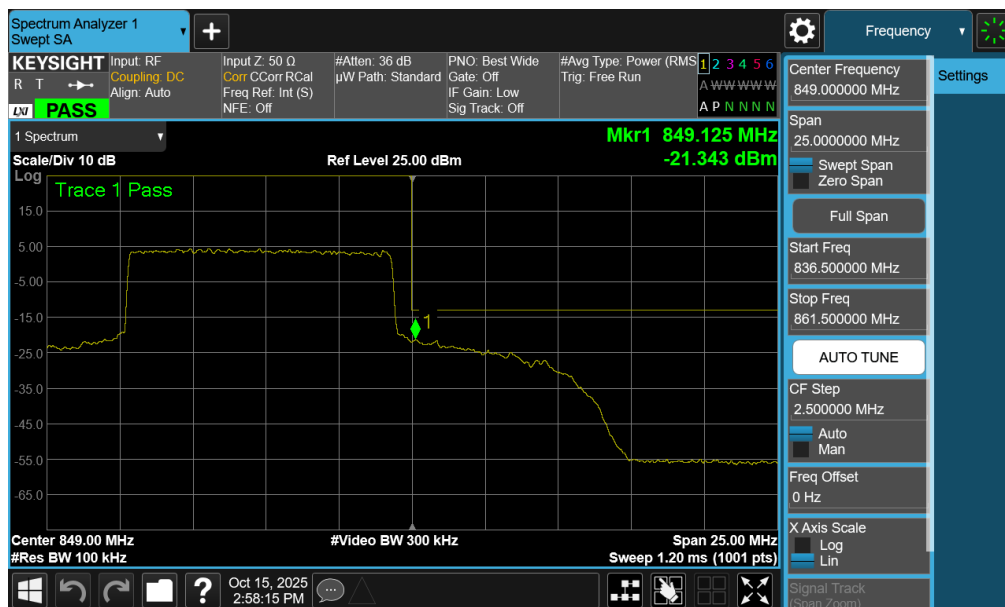
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 110 of 165



FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 111 of 165

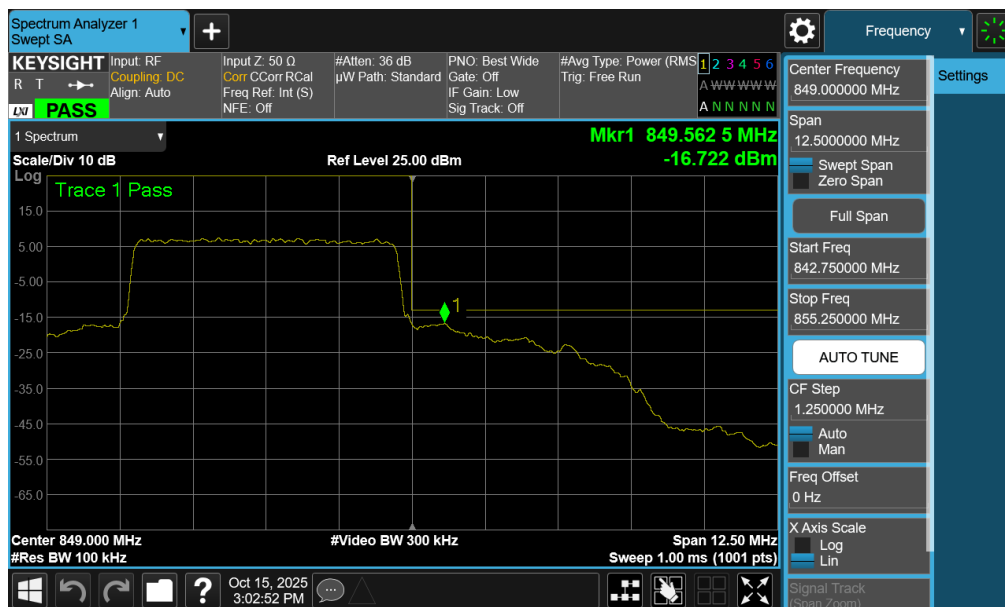
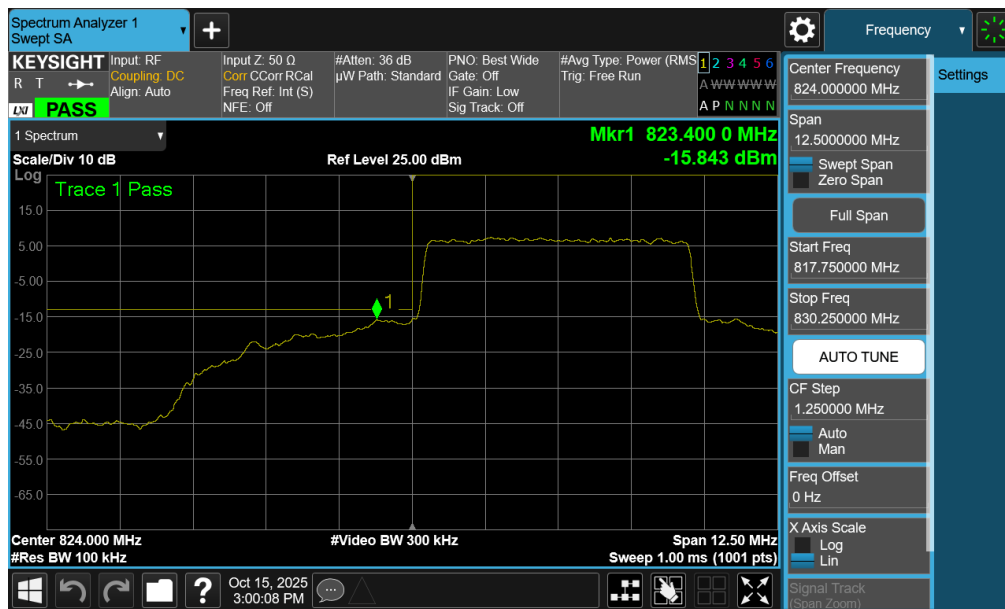


Plot 7-159. Lower Band Edge Plot (NR Band n5 – 10.0MHz - Full RB - Ant2)



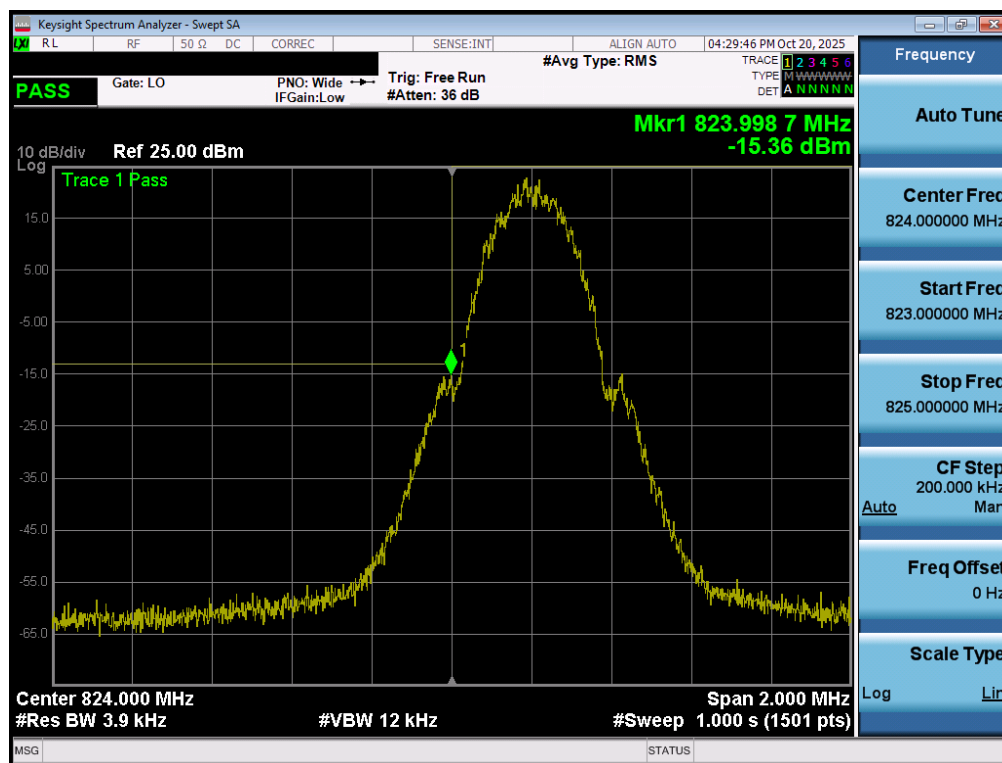
Plot 7-160. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 112 of 165

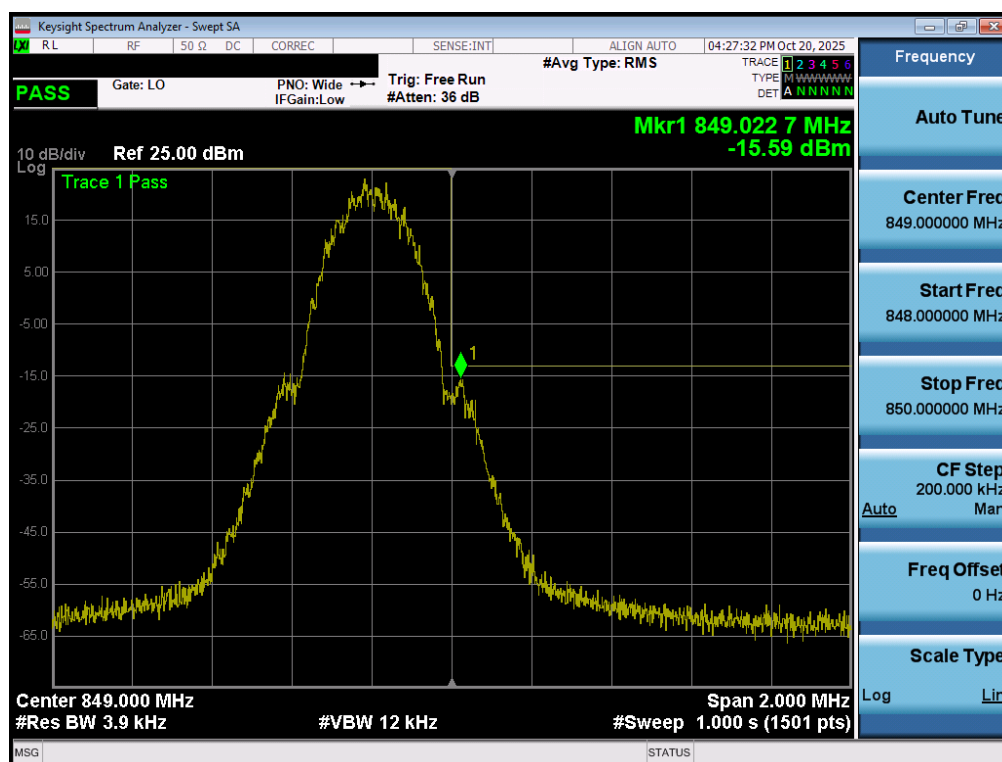


FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell – Ant2



Plot 7-163. Lower Band Edge Plot (GPRS Cell – Ch. 128 – Ant2)



Plot 7-164. Upper Band Edge Plot (GPRS Cell – Ch. 251 – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 114 of 165

WCDMA Cell – Ant2



Plot 7-165. Lower Band Edge Plot (WCDMA Cell – Ch. 4132 – Ant2)



Plot 7-166. Upper Band Edge Plot (WCDMA Cell – Ch. 4233 – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 115 of 165

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.

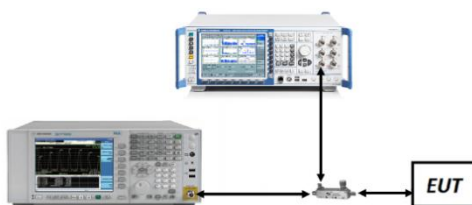


Figure 7-5. Test Instrument & Measurement Setup

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.

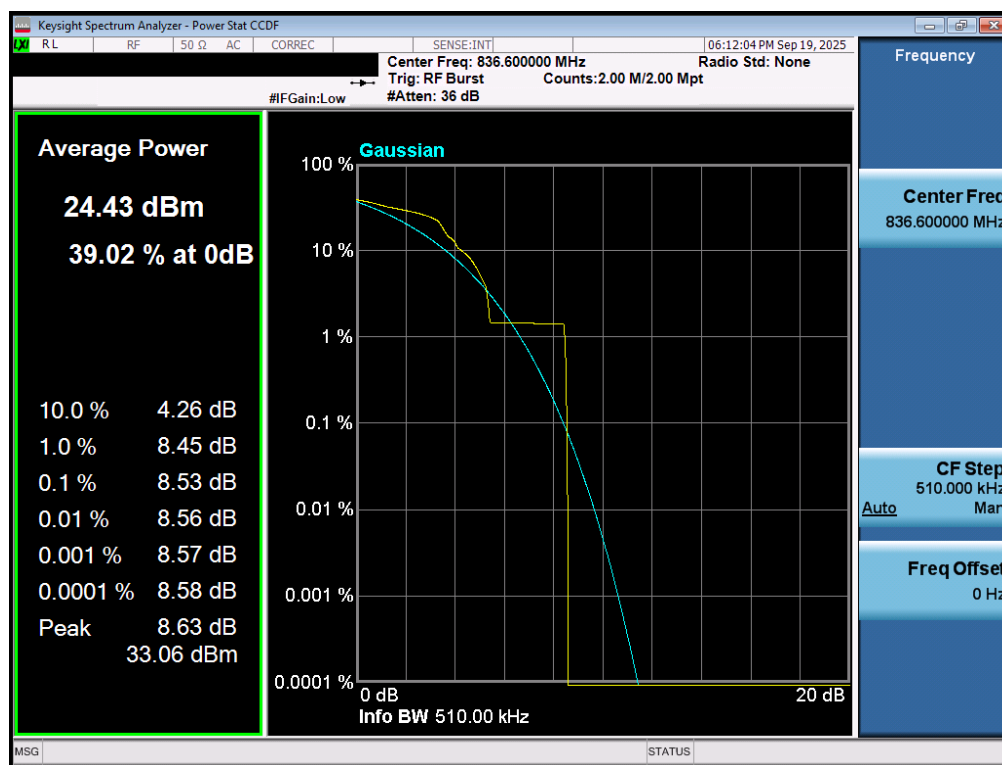
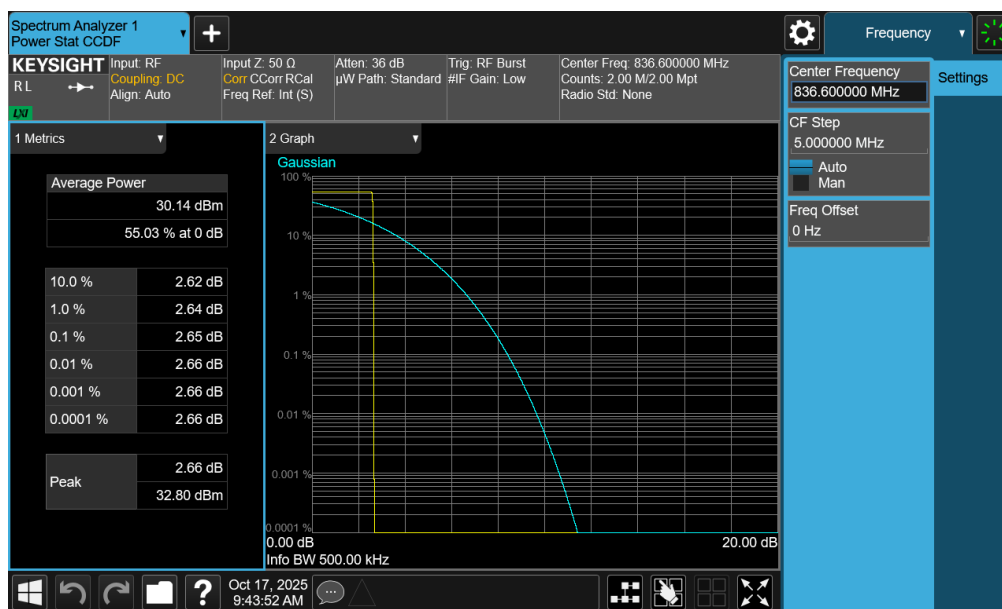
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 116 of 165

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM850	N/A	GMSK	30.14	2.65	13	-10.35
EDGE850		8-PSK	24.43	8.53	13	-4.47
WCDMA850		Spread Spectrum	24.24	3.02	13	-9.98
LTE Band 26/5	15MHz (Band 26 only)	QPSK	23.79	5.30	13	-7.70
		256QAM	19.75	6.74	13	-6.26
	10 MHz	QPSK	23.43	3.73	13	-9.27
		256QAM	19.44	6.08	13	-6.92
	5 MHz	QPSK	23.59	4.45	13	-8.55
		256QAM	19.54	6.66	13	-6.34
	3 MHz	QPSK	23.52	4.43	13	-8.57
		256QAM	19.82	6.68	13	-6.32
	1.4 MHz	QPSK	23.54	5.30	13	-7.70
		256QAM	19.60	6.74	13	-6.26
NR-n5	20 MHz	$\pi/2$ BPSK	23.85	3.79	13	-9.21
		QPSK	21.29	6.61	13	-6.39
		256QAM	17.66	8.39	13	-4.61
	15 MHz	$\pi/2$ BPSK	23.62	3.97	13	-9.03
		QPSK	21.06	6.58	13	-6.42
		256QAM	17.66	8.43	13	-4.57
	10 MHz	$\pi/2$ BPSK	23.74	3.81	13	-9.19
		QPSK	21.12	6.65	13	-6.35
		256QAM	17.62	8.40	13	-4.60
	5 MHz	$\pi/2$ BPSK	23.68	3.99	13	-9.01
		QPSK	21.24	6.63	13	-6.37
		256QAM	17.62	8.42	13	-4.58

Table 7-10. Peak-Average Ratio Results – Ant1

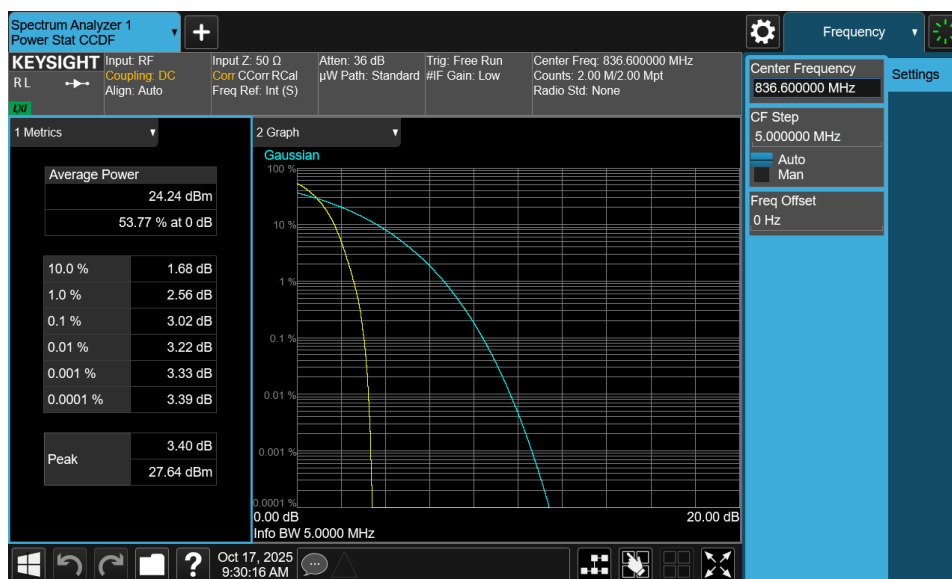
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GPRS Cell – Ant1



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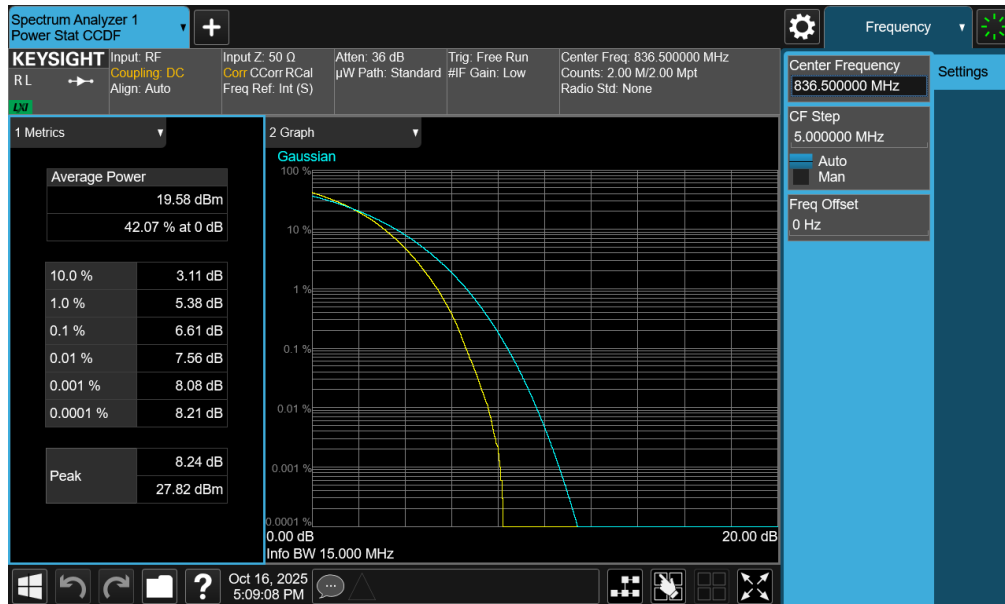
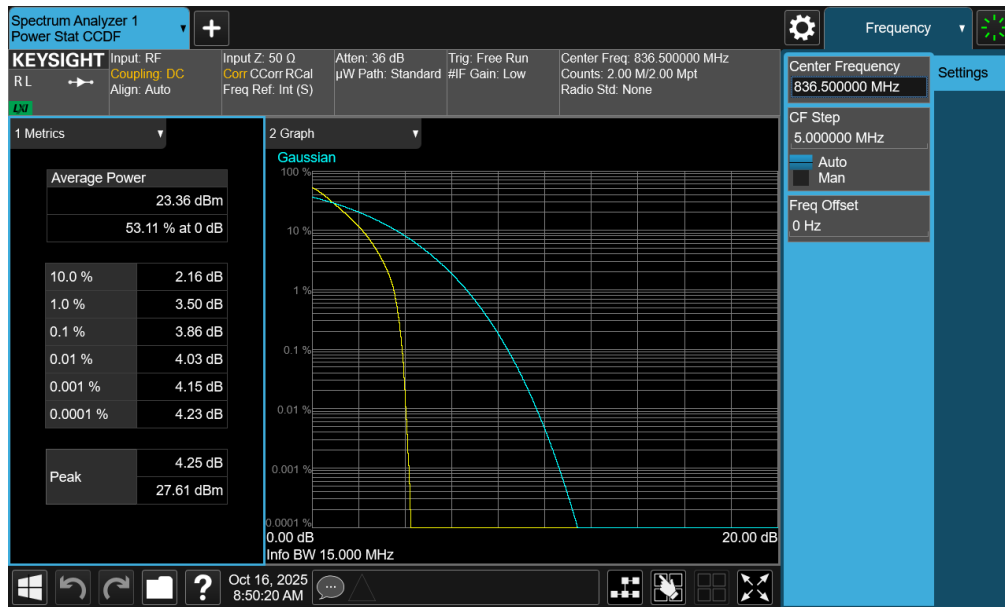
WCDMA Cell – Ant1



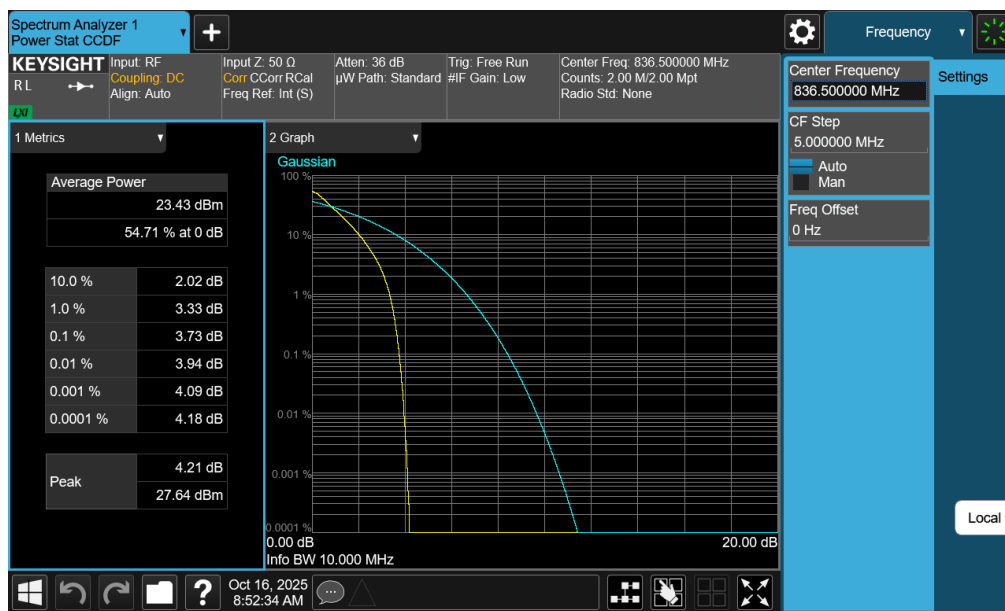
Plot 7-169. Peak-Average Ratio Plot (WCDMA, Ch. 4183 – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 119 of 165

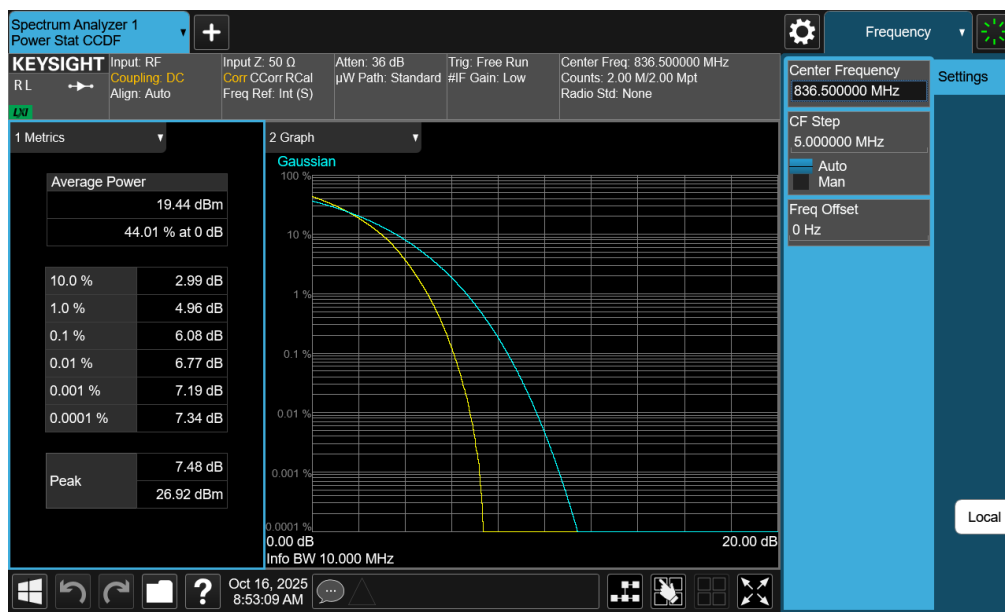
LTE Band 26/5 – Ant1



FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 120 of 165



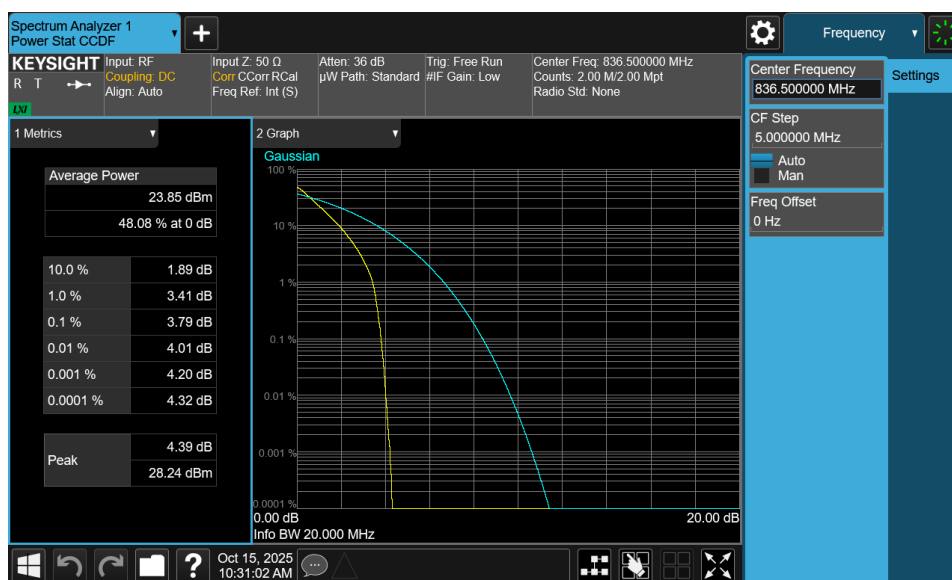
Plot 7-172. Peak-Average Ratio Plot (LTE Band 26 - 10MHz QPSK - Full RB - Ant1)



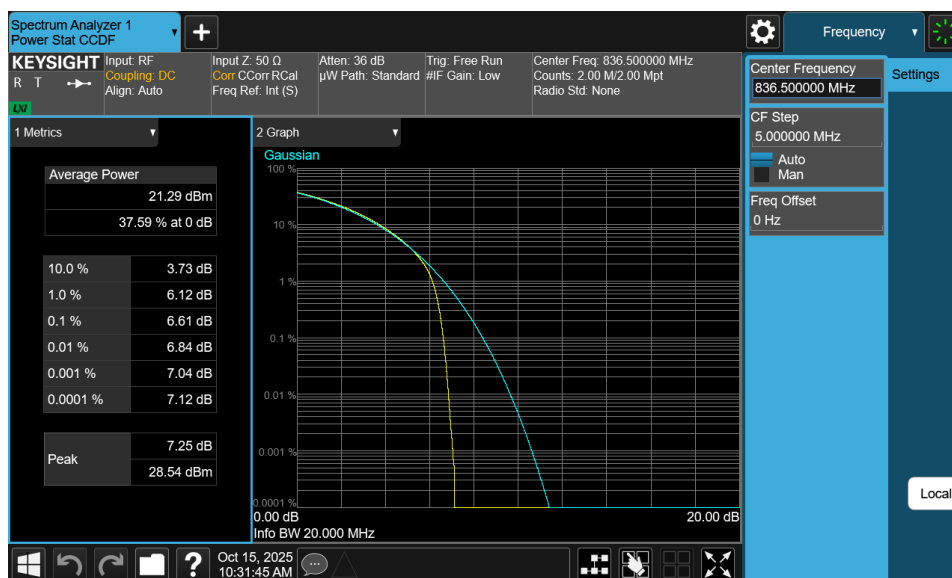
Plot 7-173. Peak-Average Ratio Plot (LTE Band 26 - 10MHz 256-QAM - Full RB - Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 121 of 165

NR Band n5 – Ant1

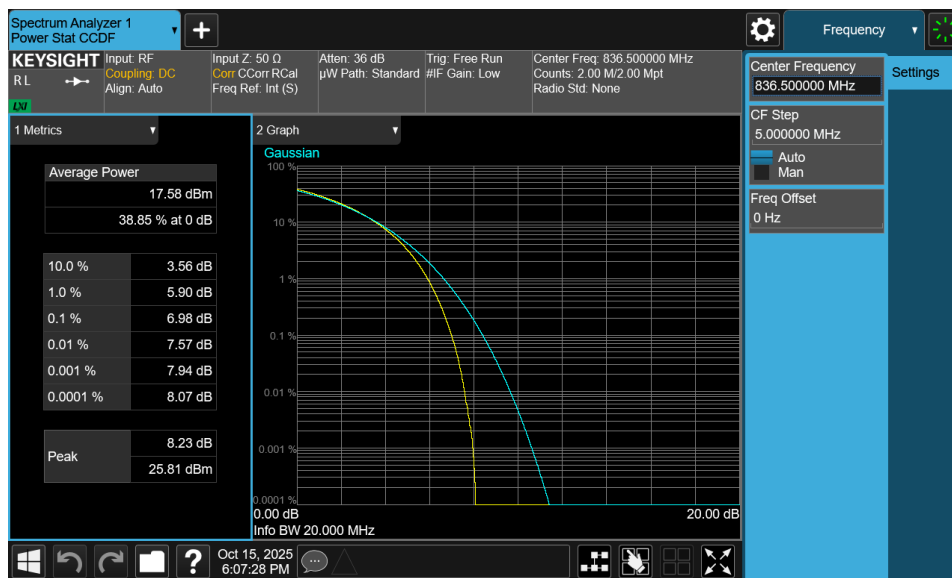


Plot 7-174. Peak-Average Ratio Plot (NR Band n5 - 20MHz $\pi/2$ BPSK - Full RB - Ant1)



Plot 7-175. Peak-Average Ratio Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 122 of 165



Plot 7-176. Peak-Average Ratio Plot (NR Band n5 - 20MHz 256-QAM - Full RB - Ant1)

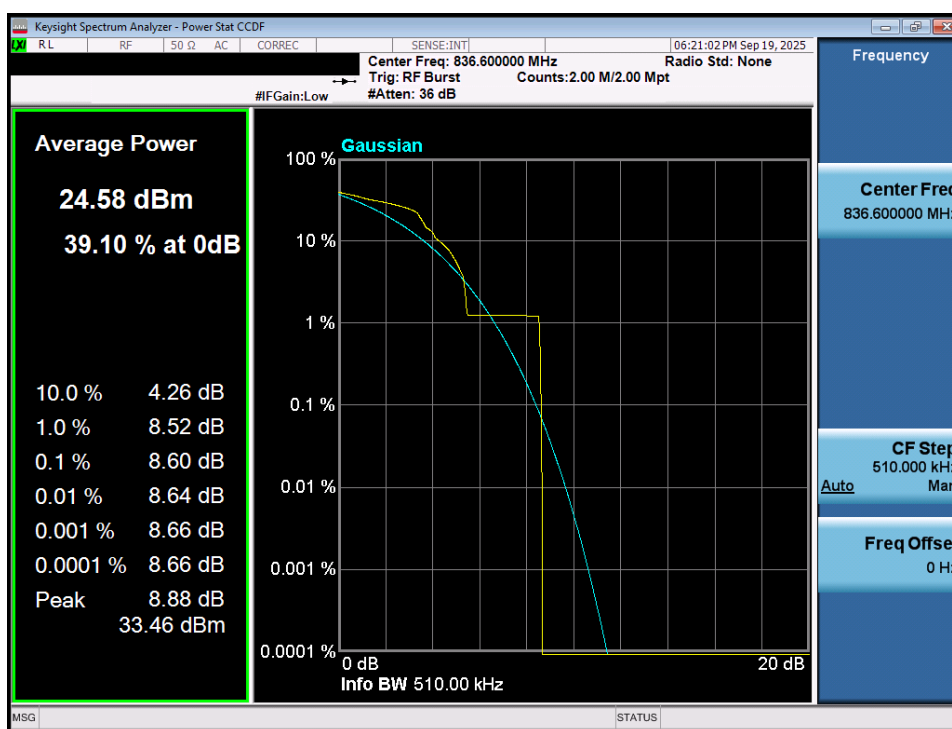
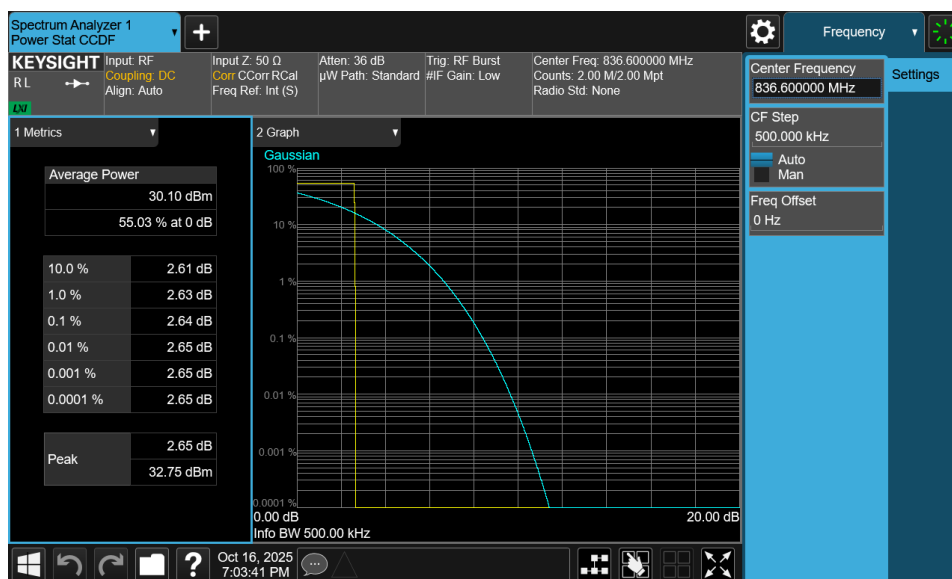
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
GSM850	N/A	GMSK	30.10	2.64	13.0	-10.36
EDGE850		8-PSK	24.58	8.60	13.0	-4.40
WCDMA850		Spread Spectrum	24.38	3.03	13	-9.97
LTE Band 26/5	15MHz (Band 26 only)	QPSK	23.79	4.73	13	-8.27
		256QAM	19.75	6.63	13	-6.37
	10 MHz	QPSK	23.22	3.79	13	-9.21
		256QAM	19.21	6.15	13	-6.85
	5 MHz	QPSK	23.25	3.74	13	-9.26
		256QAM	19.27	6.14	13	-6.86
	3 MHz	QPSK	23.26	3.68	13	-9.32
		256QAM	19.82	6.18	13	-6.82
	1.4 MHz	QPSK	23.14	4.73	13	-8.27
		256QAM	19.60	6.63	13	-6.37
NR-n5	20 MHz	$\pi/2$ BPSK	23.49	3.88	13	-9.12
		QPSK	20.94	6.65	13	-6.35
		256QAM	17.37	8.40	13	-4.60
	15 MHz	$\pi/2$ BPSK	23.40	4.03	13	-8.97
		QPSK	20.87	6.61	13	-6.39
		256QAM	17.36	8.40	13	-4.60
	10 MHz	$\pi/2$ BPSK	23.46	3.83	13	-9.17
		QPSK	20.94	6.67	13	-6.33
		256QAM	17.44	8.44	13	-4.56
	5 MHz	$\pi/2$ BPSK	23.52	4.00	13	-9.00
		QPSK	21.05	6.63	13	-6.37
		256QAM	17.43	8.42	13	-4.58

Table 7-11. Peak-Average Ratio Results – Ant2

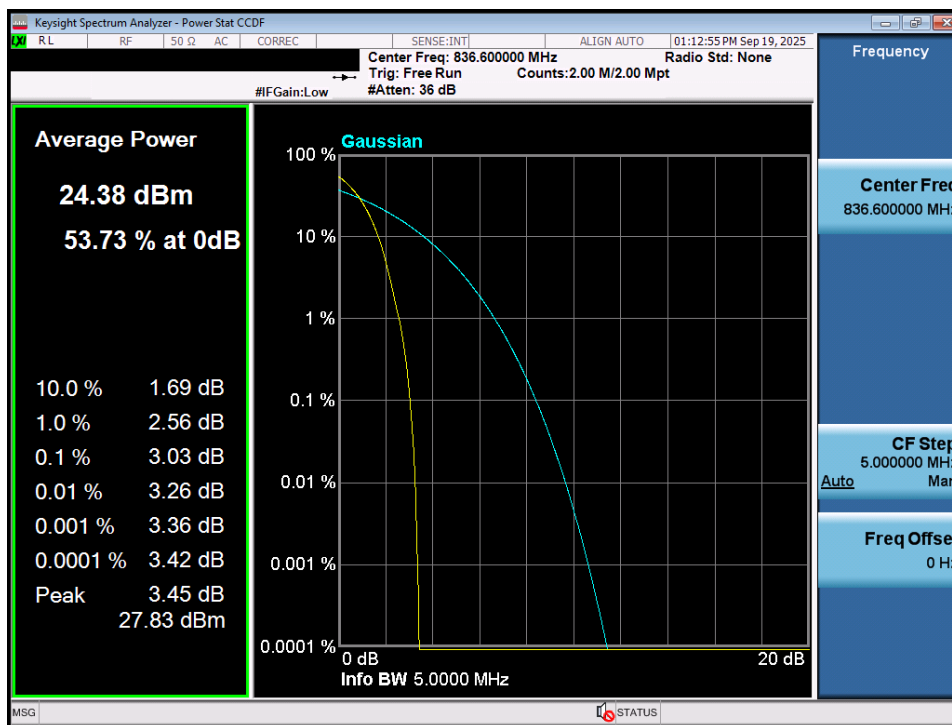
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GPRS Cell – Ant2



FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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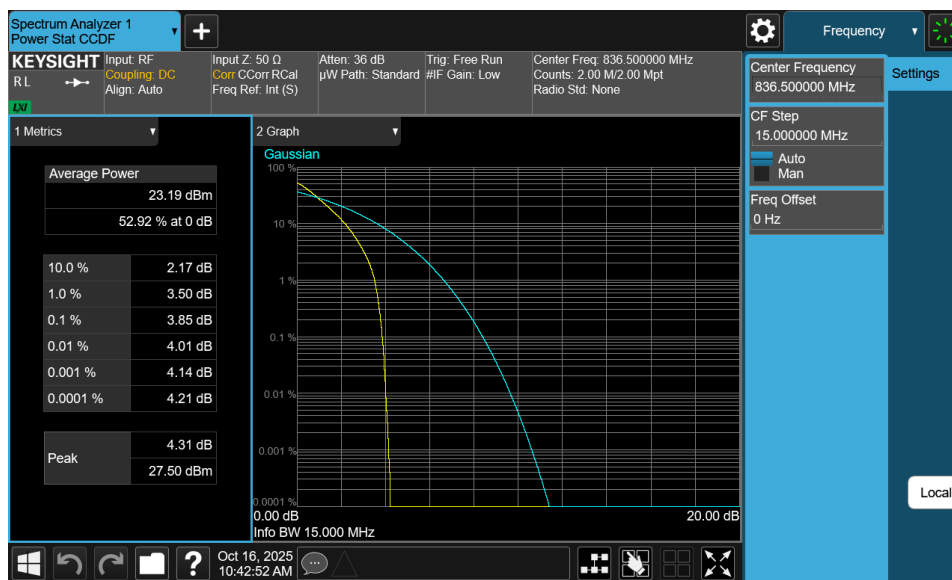
WCDMA Cell – Ant2



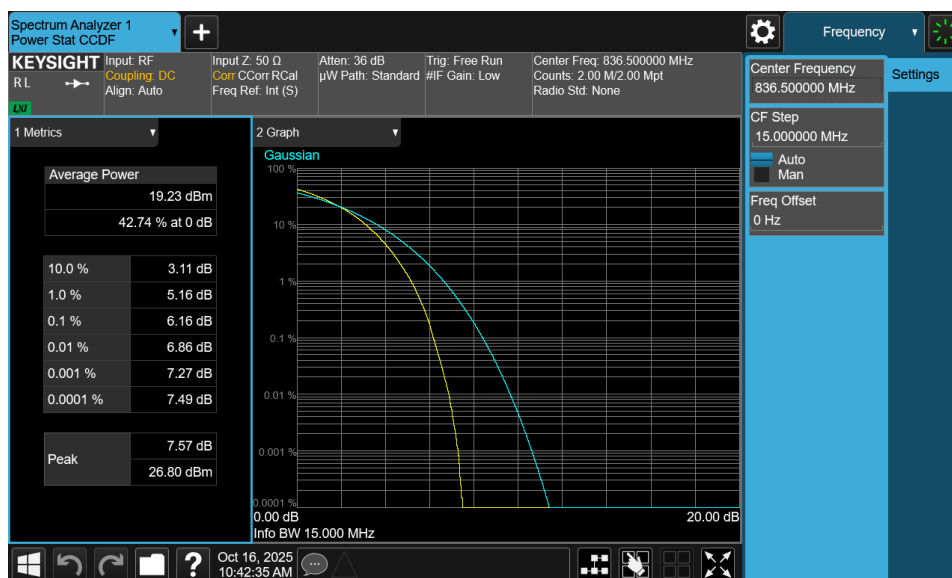
Plot 7-179. Peak-Average Ratio Plot (WCDMA, Ch. 4183 – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 126 of 165

LTE Band 26/5 – Ant2



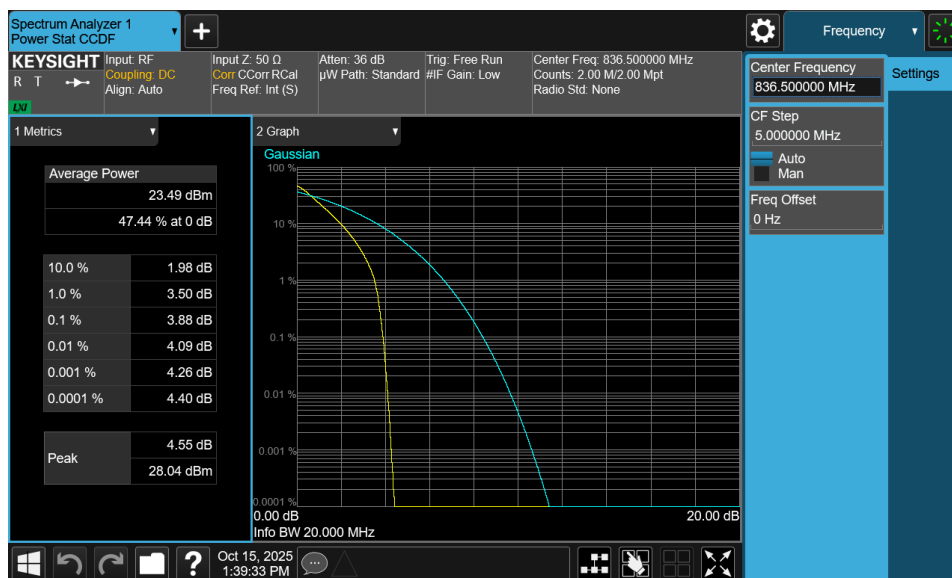
Plot 7-180. Peak-Average Ratio Plot (LTE Band 26 - 15MHz QPSK - Full RB - Ant2)



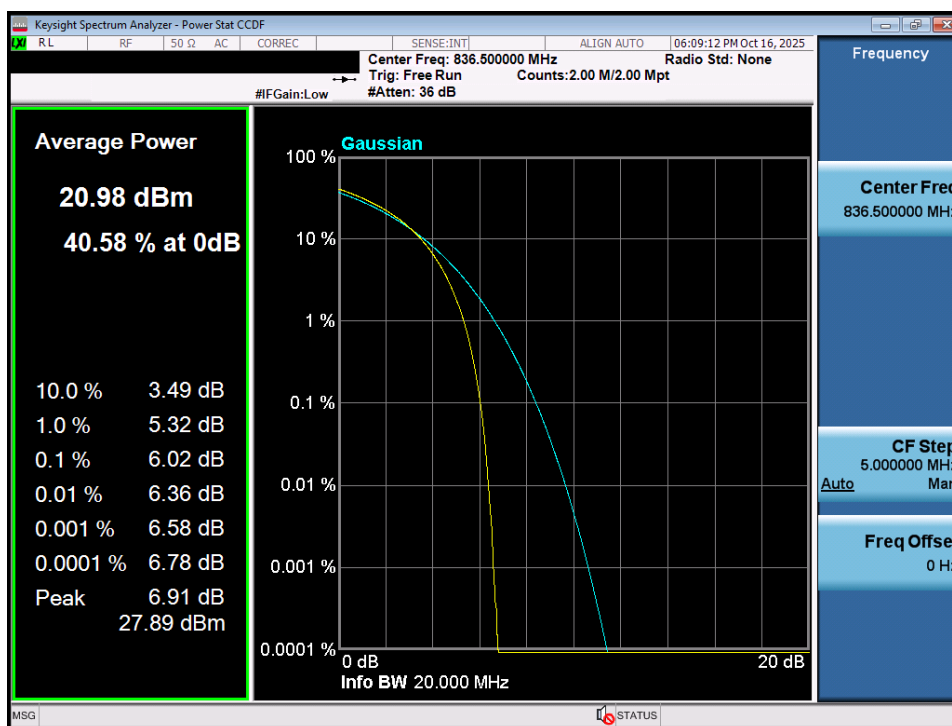
Plot 7-181. Peak-Average Ratio Plot (LTE Band 26 - 15MHz 256-QAM - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 127 of 165

NR Band n5 – Ant2

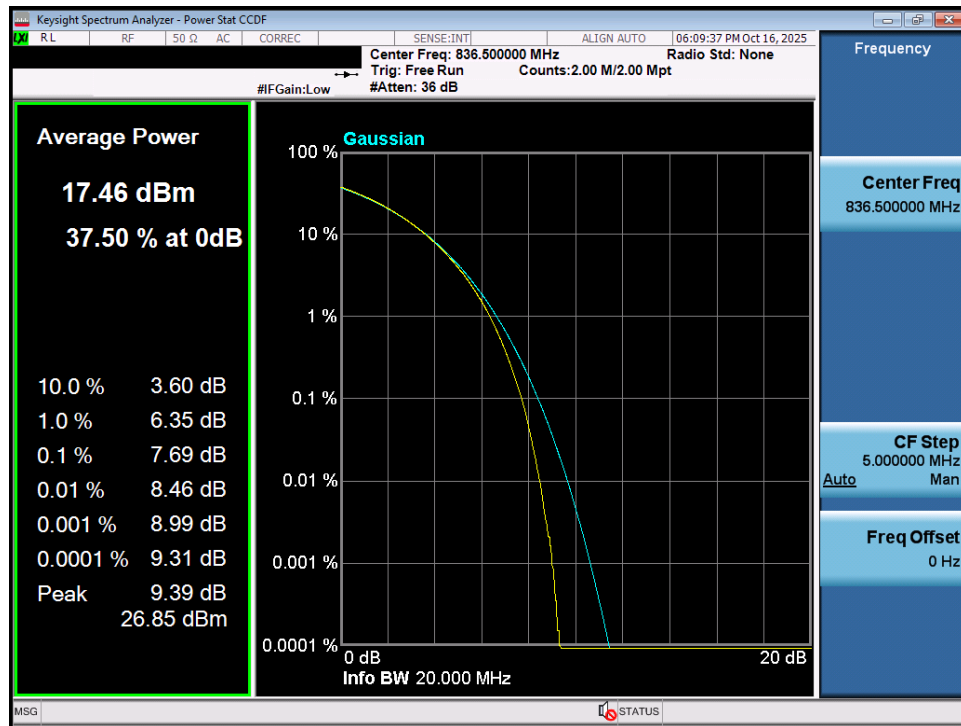


Plot 7-182. Peak-Average Ratio Plot (NR Band n5 - 20MHz $\pi/2$ BPSK - Full RB - Ant2)



Plot 7-183. Peak-Average Ratio Plot (NR Band n5 - 20MHz QPSK - Full RB - Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-184. Peak-Average Ratio Plot (NR Band n5 - 20MHz 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.

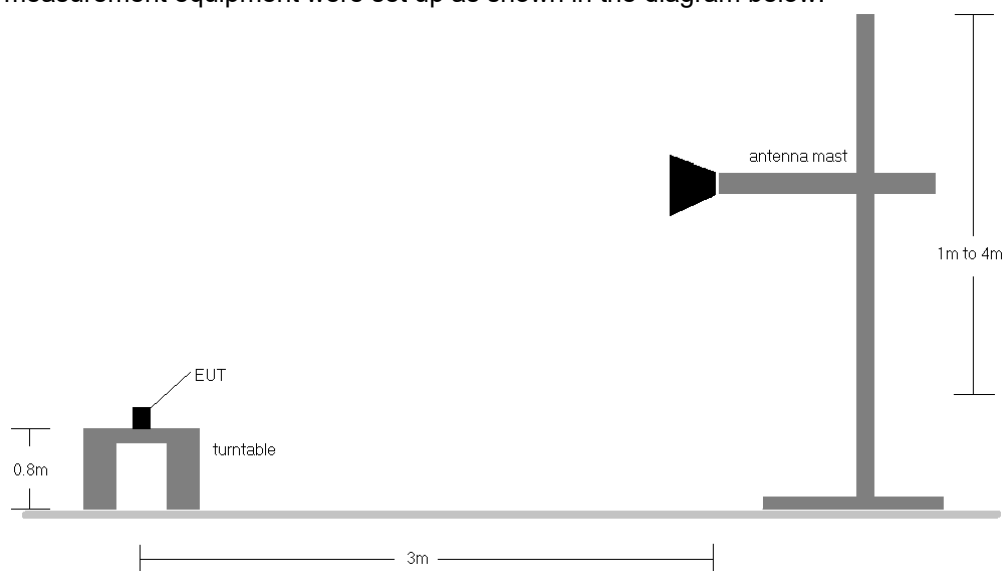


Figure 7-6. Radiated Test Setup < 1GHz

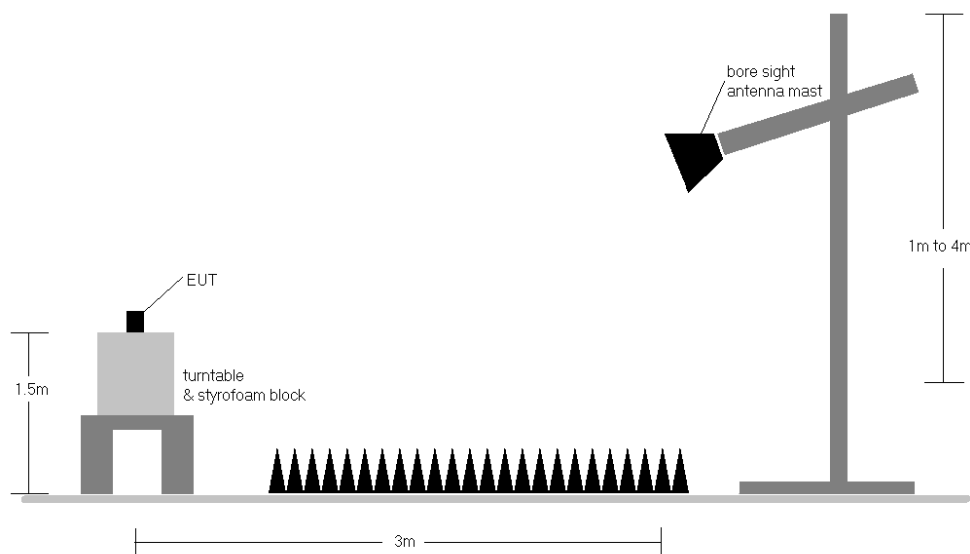


Figure 7-7. Radiated Test Setup > 1GHz

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.

FCC ID: A3LSMS948B	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]	EIRP [dBm]	EIRP [Watts]	ERP Limit [dBm]	Margin [dB]
15MHz (Band 26 only)	QPSK	831.50	H	204	246	1.29	1 / 37	21.29	20.43	0.110	38.45	-18.02	22.58	0.181	40.61	-18.03
	QPSK	836.50	H	205	237	1.31	1 / 37	20.90	20.06	0.101	38.45	-18.39	22.21	0.166	40.61	-18.40
	QPSK	841.50	H	199	241	1.33	1 / 74	20.94	20.12	0.103	38.45	-18.33	22.27	0.169	40.61	-18.33
	16-QAM	831.50	H	204	246	1.29	1 / 37	20.19	19.33	0.086	38.45	-19.12	21.48	0.140	40.61	-19.13
	16-QAM	836.50	H	205	237	1.31	1 / 37	19.60	18.76	0.075	38.45	-19.69	20.91	0.123	40.61	-19.70
10 MHz	16-QAM	841.50	H	199	241	1.33	1 / 74	19.99	19.17	0.083	38.45	-19.28	21.32	0.136	40.61	-19.28
	QPSK	829.00	H	204	246	1.27	1 / 0	21.31	20.44	0.111	38.45	-18.02	22.59	0.181	40.61	-18.02
	QPSK	836.50	H	205	237	1.31	1 / 0	20.91	20.07	0.102	38.45	-18.38	22.22	0.167	40.61	-18.39
	QPSK	844.00	H	199	241	1.35	1 / 0	20.84	20.04	0.101	38.45	-18.41	22.19	0.166	40.61	-18.42
	16-QAM	829.00	H	204	246	1.27	1 / 0	21.17	20.29	0.107	38.45	-18.16	22.44	0.175	40.61	-18.16
5 MHz	16-QAM	836.50	H	205	237	1.31	1 / 0	20.47	19.63	0.092	38.45	-18.82	21.78	0.151	40.61	-18.82
	16-QAM	844.00	H	199	241	1.35	1 / 0	20.78	19.98	0.099	38.45	-18.47	22.13	0.163	40.61	-18.48
	QPSK	826.50	H	204	246	1.26	1 / 0	21.34	20.45	0.111	38.45	-18.00	22.60	0.182	40.61	-18.01
	QPSK	836.50	H	205	237	1.31	1 / 12	21.03	20.19	0.105	38.45	-18.26	22.34	0.172	40.61	-18.26
	QPSK	846.50	H	199	241	1.36	1 / 0	20.81	20.01	0.100	38.45	-18.44	22.16	0.165	40.61	-18.44
3 MHz	16-QAM	826.50	H	204	246	1.26	1 / 12	21.04	20.15	0.103	38.45	-18.30	22.30	0.170	40.61	-18.31
	16-QAM	836.50	H	205	237	1.31	1 / 12	20.76	19.92	0.098	38.45	-18.53	22.07	0.161	40.61	-18.53
	16-QAM	846.50	H	199	241	1.36	1 / 12	20.98	20.19	0.104	38.45	-18.26	22.34	0.171	40.61	-18.27
	QPSK	825.50	H	204	246	1.26	1 / 7	21.25	20.35	0.108	38.45	-18.10	22.50	0.178	40.61	-18.10
	QPSK	836.50	H	205	237	1.31	1 / 14	20.83	19.99	0.100	38.45	-18.46	22.14	0.164	40.61	-18.47
1.4 MHz	QPSK	847.50	H	199	241	1.36	1 / 7	20.82	20.03	0.101	38.45	-18.42	22.18	0.165	40.61	-18.42
	16-QAM	825.50	H	204	246	1.26	1 / 14	21.12	20.22	0.105	38.45	-18.23	22.37	0.173	40.61	-18.23
	16-QAM	836.50	H	205	237	1.31	1 / 14	20.75	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.55
	16-QAM	847.50	H	199	241	1.36	1 / 7	20.84	20.05	0.101	38.45	-18.40	22.20	0.166	40.61	-18.41
	QPSK	824.70	H	204	246	1.25	1 / 5	21.27	20.37	0.109	38.45	-18.08	22.52	0.179	40.61	-18.08
1z (Band 26)	QPSK	836.50	H	205	237	1.31	1 / 5	20.86	20.03	0.101	38.45	-18.43	22.18	0.165	40.61	-18.43
	QPSK	848.30	H	199	241	1.37	1 / 5	20.92	20.13	0.103	38.45	-18.32	22.28	0.169	40.61	-18.32
	16-QAM	824.70	H	204	246	1.25	1 / 5	21.16	20.26	0.106	38.45	-18.19	22.41	0.174	40.61	-18.19
	16-QAM	836.50	H	205	237	1.31	1 / 5	20.64	19.80	0.095	38.45	-18.66	21.95	0.157	40.61	-18.66
	16-QAM	848.30	H	199	241	1.37	1 / 5	20.94	20.16	0.104	38.45	-18.29	22.31	0.170	40.61	-18.30
1z (Band 26)	QPSK (Opposite Pol.)	831.50	V	124	225	1.29	1 / 37	17.56	16.70	0.047	38.45	-21.75	18.85	0.077	40.61	-21.76
	QPSK (WCP)	831.50	H	205	243	1.29	1 / 37	20.98	20.12	0.103	38.45	-18.33	22.27	0.169	40.61	-18.34

Table 7-12. ERP Data (LTE Band 26/5 – 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]	EIRP [dBm]	EIRP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	11/2 BPSK	834.00	H	205	240	1.30	1 / 53	21.34	20.49	0.112	38.45	-17.96	22.64	0.184	40.61	-17.97
	11/2 BPSK	836.50	H	207	241	1.31	1 / 53	21.59	20.75	0.119	38.45	-17.70	22.90	0.195	40.61	-17.71
	11/2 BPSK	839.00	H	205	242	1.32	1 / 53	21.38	20.55	0.114	38.45	-17.90	22.70	0.186	40.61	-17.90
	QPSK	834.00	H	205	240	1.30	1 / 53	21.20	20.35	0.108	38.45	-18.10	22.50	0.178	40.61	-18.11
	QPSK	836.50	H	207	241	1.31	1 / 53	21.54	20.70	0.117	38.45	-17.75	22.85	0.193	40.61	-17.76
	QPSK	839.00	H	205	242	1.32	1 / 53	21.26	20.43	0.110	38.45	-18.02	22.58	0.181	40.61	-18.02
	16-QAM	834.00	H	205	240	1.30	1 / 53	20.19	19.34	0.086	38.45	-19.11	21.49	0.141	40.61	-19.12
	16-QAM	836.50	H	207	241	1.31	1 / 53	20.54	19.70	0.093	38.45	-18.75	21.85	0.153	40.61	-18.76
	16-QAM	839.00	H	205	242	1.32	1 / 53	20.36	19.53	0.090	38.45	-18.92	21.68	0.147	40.61	-18.92
15 MHz	11/2 BPSK	831.50	H	205	240	1.29	1 / 39	21.45	20.59	0.115	38.45	-17.86	22.74	0.188	40.61	-17.87
	11/2 BPSK	836.50	H	207	241	1.31	1 / 39	21.75	20.91	0.123	38.45	-17.54	23.06	0.202	40.61	-17.55
	11/2 BPSK	841.50	H	205	242	1.33	1 / 77	21.55	20.73	0.118	38.45	-17.72	22.88	0.194	40.61	-17.72
	QPSK	831.50	H	205	240	1.29	1 / 77	21.21	20.35	0.108	38.45	-18.10	22.50	0.178	40.61	-18.11
	QPSK	836.50	H	207	241	1.31	1 / 77	21.63	20.79	0.120	38.45	-17.66	22.94	0.197	40.61	-17.66
	QPSK	841.50	H	205	242	1.33	1 / 77	21.23	20.42	0.110	38.45	-18.04	22.57	0.181	40.61	-18.04
	16-QAM	831.50	H	205	240	1.29	1 / 77	20.20	19.34	0.086	38.45	-19.11	21.49	0.141	40.61	-19.12
	16-QAM	836.50	H	207	241	1.31	1 / 77	20.60	19.76	0.095	38.45	-18.69	21.91	0.155	40.61	-18.70
	16-QAM	841.50	H	205	242	1.33	1 / 77	20.47	19.65	0.092	38.45	-18.80	21.80	0.151	40.61	-18.81
10 MHz	11/2 BPSK	829.00	H	205	240	1.27	1 / 26	21.39	20.52	0.113	38.45	-17.93	22.67	0.185	40.61	-17.94
	11/2 BPSK	836.50	H	207	241	1.31	1 / 50	21.69	20.85	0.122	38.45	-17.60	23.00	0.200	40.61	-17.60
	11/2 BPSK	844.00	H	205	242	1.35	1 / 26	21.37	20.56	0.114	38.45	-17.89	22.71	0.187	40.61	-17.89
	QPSK	829.00	H	205	240	1.27	1 / 26	21.20	20.33	0.108	38.45	-18.12	22.48	0.177	40.61	-18.13
	QPSK	836.50	H	207	241	1.31	1 / 50	21.66	20.82	0.121	38.45	-17.63	22.97	0.198	40.61	-17.64
	QPSK	844.00	H	205	242	1.35	1 / 26	21.37	20.57	0.114	38.45	-17.88	22.72	0.187	40.61	-17.89
	16-QAM	829.00	H	205	240	1.27	1 / 50	20.36	19.48	0.089	38.45	-18.97	21.63	0.146	40.61	-18.97
	16-QAM	836.50	H	207	241	1.31	1 / 50	20.53	19.69	0.093	38.45	-18.76	21.84	0.153	40.61	-18.76
	16-QAM	844.00	H	205	242	1.35	1 / 50	20.25	19.45	0.088	38.45	-19.00	21.60	0.144	40.61	-19.01
5 MHz	11/2 BPSK	829.00	H	205	240	1.26	1 / 12	21.60	20.71	0.118	38.45	-17.74	22.86	0.193	40.61	-17.74
	11/2 BPSK	836.50	H	207	241	1.31	1 / 23	21.83	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
	11/2 BPSK	844.00	H	205	242	1.36	1 / 23	21.51	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74
	QPSK	829.00	H	205	240	1.26	1 / 12	21.41	20.53	0.113	38.45	-17.93	22.68	0.185	40.61	-17.93
	QPSK	836.50	H	207	241	1.31	1 / 12	21.80	20.96	0.125	38.45	-17.49	23.11	0.205	40.61	-17.49
	QPSK	844.00	H	205	242	1.36	1 / 23	21.51	20.72	0.118	38.45	-17.73	22.87	0.194	40.61	-17.74
	16-QAM	829.00	H	205	240	1.26	1 / 23	20.16	19.27	0.085	38.45	-19.18	21.42	0.139	40.61	-19.18
	16-QAM	836.50	H	207	241	1.31	1 / 23	20.49	19.65	0.092	38.45	-18.81	21.80	0.151	40.61	-18.81
	16-QAM	844.00	H	205	242	1.36	1 / 23	20.45	19.66	0.092	38.45	-18.79	21.81	0.152	40.61	-18.80
20 MHz	QPSK (CP-OFDM)	836.50	H	207	241	1.31	1 / 53	19.88	19.04	0.080	38.45	-19.41	21.19	0.132	40.61	-19.42
	QPSK (Opposite Pol.)	836.50	V	125	231	1.31	1 / 53	17.76	16.92	0.049	38.45	-21.53	19.07	0.081	40.61	-21.54
	QPSK (WCP)	836.50	H	210	239	1.31	1 / 1	18.33	17.49	0.056	38.45	-20.96	19.64	0.092	40.61	-20.97

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GSM850	H	220	241	29.44	1.25	28.54	0.715	38.45	-9.91	30.69	1.172	40.61	-9.92
836.60	GSM850	H	207	247	29.52	1.31	28.68	0.738	38.45	-9.77	30.83	1.211	40.61	-9.78
848.80	GSM850	H	210	240	29.14	1.37	28.36	0.685	38.45	-10.09	30.51	1.124	40.61	-10.10
836.60	GSM850	V	126	227	25.96	1.25	25.06	0.321	38.45	-13.39	27.21	0.526	40.61	-13.40
836.60	EDGE850	H	206	244	21.59	1.25	20.69	0.117	38.45	-17.76	22.84	0.192	40.61	-17.77
836.60	GSM850 (WCP)	H	207	247	28.88	1.25	27.98	0.628	38.45	-10.47	30.13	1.031	40.61	-10.48

Table 7-14. 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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	382	241	19.55	1.26	18.66	0.073	38.45	-19.79	20.81	0.121	40.61	-19.80
836.60	WCDMA850	H	375	245	20.34	1.31	19.50	0.089	38.45	-18.95	21.65	0.146	40.61	-18.96
846.60	WCDMA850	H	378	234	20.44	1.36	19.65	0.092	38.45	-18.80	21.80	0.151	40.61	-18.81
846.60	WCDMA850	V	122	227	17.54	1.36	16.75	0.047	38.45	-21.70	18.90	0.078	40.61	-21.71
846.60	WCDMA850 (WCP)	H	375	237	20.42	1.36	19.63	0.092	38.45	-18.82	21.78	0.151	40.61	-18.83

Table 7-15. 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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
15MHz (Band 26 only)	QPSK	831.50	H	204	75	1.30	1 / 0	17.82	16.97	0.050	38.45	-21.48	19.12	0.082	40.61	-21.49
	QPSK	836.50	H	213	72	1.31	1 / 0	17.95	17.11	0.051	38.45	-21.34	19.26	0.084	40.61	-21.35
	QPSK	841.50	H	206	71	1.32	1 / 0	17.91	17.08	0.051	38.45	-21.37	19.23	0.084	40.61	-21.37
	16-QAM	831.50	H	204	75	1.30	1 / 0	16.99	16.14	0.041	38.45	-22.31	18.29	0.067	40.61	-22.32
	16-QAM	836.50	H	213	72	1.31	1 / 0	16.99	16.15	0.041	38.45	-22.30	18.30	0.068	40.61	-22.31
	16-QAM	841.50	H	206	71	1.32	1 / 0	17.12	16.29	0.043	38.45	-22.16	18.44	0.070	40.61	-22.16
10 MHz	QPSK	829.00	H	204	75	1.30	1 / 0	17.86	17.01	0.050	38.45	-21.44	19.16	0.082	40.61	-21.45
	QPSK	836.50	H	213	72	1.31	1 / 25	18.15	17.31	0.054	38.45	-21.14	19.46	0.088	40.61	-21.15
	QPSK	844.00	H	206	71	1.32	1 / 25	17.97	17.14	0.052	38.45	-21.31	19.29	0.085	40.61	-21.32
	16-QAM	829.00	H	204	75	1.29	1 / 0	16.97	16.11	0.041	38.45	-22.34	18.26	0.067	40.61	-22.35
	16-QAM	836.50	H	213	72	1.31	1 / 49	16.87	16.03	0.040	38.45	-22.43	18.18	0.066	40.61	-22.43
	16-QAM	844.00	H	206	71	1.33	1 / 0	17.24	16.42	0.044	38.45	-22.03	18.57	0.072	40.61	-22.03
5 MHz	QPSK	826.50	H	204	75	1.29	1 / 12	17.75	16.89	0.049	38.45	-21.57	19.04	0.080	40.61	-21.57
	QPSK	836.50	H	213	72	1.31	1 / 24	17.98	17.14	0.052	38.45	-21.31	19.29	0.085	40.61	-21.32
	QPSK	846.50	H	206	71	1.33	1 / 12	17.95	17.13	0.052	38.45	-21.32	19.28	0.085	40.61	-21.32
	16-QAM	826.50	H	204	75	1.29	1 / 12	17.01	16.14	0.041	38.45	-22.31	18.29	0.068	40.61	-22.31
	16-QAM	836.50	H	213	72	1.31	1 / 12	16.83	15.99	0.040	38.45	-22.46	18.14	0.065	40.61	-22.47
	16-QAM	846.50	H	206	71	1.33	1 / 12	17.26	16.45	0.044	38.45	-22.00	18.60	0.072	40.61	-22.01
3 MHz	QPSK	825.50	H	204	75	1.27	1 / 7	17.94	17.07	0.051	38.45	-21.38	19.22	0.084	40.61	-21.39
	QPSK	836.50	H	213	72	1.31	1 / 14	18.17	17.33	0.054	38.45	-21.12	19.48	0.089	40.61	-21.13
	QPSK	847.50	H	206	71	1.35	1 / 7	17.94	17.14	0.052	38.45	-21.31	19.29	0.085	40.61	-21.32
	16-QAM	825.50	H	204	75	1.27	1 / 14	17.17	16.29	0.043	38.45	-22.16	18.44	0.070	40.61	-22.17
	16-QAM	836.50	H	213	72	1.31	1 / 14	16.92	16.08	0.041	38.45	-22.37	18.23	0.067	40.61	-22.37
	16-QAM	847.50	H	206	71	1.35	1 / 14	17.36	16.56	0.045	38.45	-21.89	18.71	0.074	40.61	-21.90
1.4 MHz	QPSK	824.70	H	204	75	1.26	1 / 3	17.83	16.94	0.049	38.45	-21.51	19.09	0.081	40.61	-21.51
	QPSK	836.50	H	213	72	1.31	1 / 3	18.02	17.18	0.052	38.45	-21.27	19.33	0.086	40.61	-21.28
	QPSK	848.30	H	206	71	1.36	1 / 3	17.93	17.14	0.052	38.45	-21.32	19.29	0.085	40.61	-21.32
	16-QAM	824.70	H	204	75	1.26	1 / 3	17.00	16.11	0.041	38.45	-22.34	18.26	0.067	40.61	-22.35
	16-QAM	836.50	H	213	72	1.31	1 / 3	16.81	15.97	0.040	38.45	-22.48	18.12	0.065	40.61	-22.49
	16-QAM	848.30	H	206	71	1.36	1 / 3	17.31	16.52	0.045	38.45	-21.94	18.67	0.074	40.61	-21.94
15MHz	QPSK (Opposite Pol.)	836.50	V	131	103	1.31	1 / 0	16.23	15.39	0.035	38.45	-23.06	17.54	0.057	40.61	-23.07
	QPSK (WCP)	836.50	H	215	70	1.31	1 / 0	17.45	16.61	0.046	38.45	-21.84	18.76	0.075	40.61	-21.85

Table 7-16. ERP Data (LTE Band 26/5 – Ant2)

FCC ID: A3LSMS948B	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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	11/2 BPSK	834.00	H	205	71	1.30	1 / 1	18.21	17.36	0.054	38.45	-21.09	19.51	0.089	40.61	-21.10
	11/2 BPSK	836.50	H	205	72	1.31	1 / 1	18.16	17.32	0.054	38.45	-21.13	19.47	0.089	40.61	-21.14
	11/2 BPSK	839.00	H	207	73	1.32	1 / 1	18.07	17.24	0.053	38.45	-21.21	19.39	0.087	40.61	-21.21
	QPSK	834.00	H	205	71	1.30	1 / 1	18.16	17.31	0.054	38.45	-21.14	19.46	0.088	40.61	-21.15
	QPSK	836.50	H	205	72	1.31	1 / 1	18.18	17.34	0.054	38.45	-21.11	19.49	0.089	40.61	-21.12
	QPSK	839.00	H	207	73	1.32	1 / 1	18.00	17.17	0.052	38.45	-21.28	19.32	0.086	40.61	-21.28
	16-QAM	834.00	H	205	71	1.30	1 / 1	17.22	16.37	0.043	38.45	-22.08	18.52	0.071	40.61	-22.09
	16-QAM	836.50	H	205	72	1.31	1 / 1	17.24	16.40	0.044	38.45	-22.05	18.55	0.072	40.61	-22.06
	16-QAM	839.00	H	207	73	1.32	1 / 1	17.31	16.48	0.044	38.45	-21.97	18.63	0.073	40.61	-21.97
	16-QAM	839.00	H	207	73	1.32	1 / 1	17.31	16.48	0.044	38.45	-21.97	18.63	0.073	40.61	-21.97
15 MHz	11/2 BPSK	831.50	H	205	71	1.29	1 / 39	18.19	17.33	0.054	38.45	-21.12	19.48	0.089	40.61	-21.13
	11/2 BPSK	836.50	H	205	72	1.31	1 / 39	18.18	17.34	0.054	38.45	-21.11	19.49	0.089	40.61	-21.12
	11/2 BPSK	841.50	H	207	73	1.33	1 / 39	18.08	17.27	0.053	38.45	-21.18	19.42	0.087	40.61	-21.19
	QPSK	831.50	H	205	71	1.29	1 / 39	18.19	17.32	0.054	38.45	-21.13	19.47	0.089	40.61	-21.13
	QPSK	836.50	H	205	72	1.31	1 / 39	18.32	17.48	0.056	38.45	-20.97	19.63	0.092	40.61	-20.98
	QPSK	841.50	H	207	73	1.33	1 / 77	18.04	17.23	0.053	38.45	-21.22	19.38	0.087	40.61	-21.23
	16-QAM	831.50	H	205	71	1.29	1 / 77	17.24	16.38	0.043	38.45	-22.07	18.53	0.071	40.61	-22.08
	16-QAM	836.50	H	205	72	1.31	1 / 77	17.00	16.16	0.041	38.45	-22.29	18.31	0.068	40.61	-22.30
	16-QAM	841.50	H	207	73	1.33	1 / 77	17.22	16.40	0.044	38.45	-22.05	18.55	0.072	40.61	-22.05
	16-QAM	841.50	H	207	73	1.33	1 / 77	17.22	16.40	0.044	38.45	-22.05	18.55	0.072	40.61	-22.05
10 MHz	11/2 BPSK	829.00	H	205	71	1.27	1 / 50	18.44	17.56	0.057	38.45	-20.89	19.71	0.094	40.61	-20.89
	11/2 BPSK	836.50	H	205	72	1.31	1 / 26	18.04	17.20	0.053	38.45	-21.25	19.35	0.086	40.61	-21.25
	11/2 BPSK	844.00	H	207	73	1.35	1 / 50	18.10	17.30	0.054	38.45	-21.16	19.45	0.088	40.61	-21.16
	QPSK	829.00	H	205	71	1.27	1 / 50	18.23	17.35	0.054	38.45	-21.10	19.50	0.089	40.61	-21.10
	QPSK	836.50	H	205	72	1.31	1 / 26	18.25	17.41	0.055	38.45	-21.04	19.56	0.090	40.61	-21.05
	QPSK	844.00	H	207	73	1.35	1 / 26	17.90	17.09	0.051	38.45	-21.36	19.24	0.084	40.61	-21.36
	16-QAM	829.00	H	205	71	1.27	1 / 50	17.35	16.47	0.044	38.45	-21.98	18.62	0.073	40.61	-21.98
	16-QAM	836.50	H	205	72	1.31	1 / 50	17.27	16.43	0.044	38.45	-22.02	18.58	0.072	40.61	-22.02
	16-QAM	844.00	H	207	73	1.35	1 / 50	17.31	16.51	0.045	38.45	-21.94	18.66	0.073	40.61	-21.95
	16-QAM	844.00	H	207	73	1.35	1 / 50	17.31	16.51	0.045	38.45	-21.94	18.66	0.073	40.61	-21.95
5 MHz	11/2 BPSK	829.00	H	205	71	1.26	1 / 23	18.38	17.49	0.056	38.45	-20.96	19.64	0.092	40.61	-20.96
	11/2 BPSK	836.50	H	205	72	1.31	1 / 12	18.40	17.56	0.057	38.45	-20.89	19.71	0.094	40.61	-20.90
	11/2 BPSK	844.00	H	207	73	1.36	1 / 12	18.02	17.23	0.053	38.45	-21.22	19.38	0.087	40.61	-21.23
	QPSK	829.00	H	205	71	1.26	1 / 23	18.27	17.38	0.055	38.45	-21.07	19.53	0.090	40.61	-21.07
	QPSK	836.50	H	205	72	1.31	1 / 12	18.42	17.58	0.057	38.45	-20.87	19.73	0.094	40.61	-20.88
	QPSK	844.00	H	207	73	1.36	1 / 23	18.02	17.22	0.053	38.45	-21.23	19.37	0.087	40.61	-21.23
	16-QAM	829.00	H	205	71	1.26	1 / 12	17.13	16.24	0.042	38.45	-22.21	18.39	0.069	40.61	-22.22
	16-QAM	836.50	H	205	72	1.31	1 / 12	17.33	16.49	0.045	38.45	-21.96	18.64	0.073	40.61	-21.97
	16-QAM	844.00	H	207	73	1.36	1 / 12	17.26	16.47	0.044	38.45	-21.98	18.62	0.073	40.61	-21.99
	16-QAM	844.00	H	207	73	1.36	1 / 12	17.26	16.47	0.044	38.45	-21.98	18.62	0.073	40.61	-21.99
20MHz	QPSK (CP-OFDM)	834.00	H	205	71	1.30	1 / 1	15.27	14.42	0.028	38.45	-24.03	16.57	0.045	40.61	-24.04
	QPSK (Opposite Pol.)	834.00	V	133	107	1.30	1 / 104	15.18	14.33	0.027	38.45	-24.12	16.48	0.044	40.61	-24.13
	QPSK (WCP)	834.00	H	208	68	1.30	1 / 1	18.21	17.36	0.054	38.45	-21.09	19.51	0.089	40.61	-21.10

Table 7-17. ERP Data (NR Band n5 – 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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GSM850	H	210	72	25.92	1.25	25.02	0.318	38.45	-13.43	27.17	0.521	40.61	-13.44
836.60	GSM850	H	200	72	24.52	1.31	23.68	0.233	38.45	-14.77	25.83	0.383	40.61	-14.78
848.80	GSM850	H	204	68	23.90	1.37	23.12	0.205	38.45	-15.33	25.27	0.336	40.61	-15.34
824.20	GSM850	V	124	108	22.62	1.25	21.72	0.149	38.45	-16.73	23.87	0.244	40.61	-16.74
824.20	EDGE850	H	210	77	17.71	1.25	16.81	0.048	38.45	-21.64	18.96	0.079	40.61	-21.65
824.20	GSM850 (WCP)	H	208	73	25.47	1.25	24.57	0.286	38.45	-13.88	26.72	0.470	40.61	-13.89

Table 7-18. 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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	H	200	72	18.34	1.26	17.45	0.056	38.45	-21.00	19.60	0.091	40.61	-21.01
836.60	WCDMA850	H	200	73	17.74	1.31	16.90	0.049	38.45	-21.55	19.05	0.080	40.61	-21.56
846.60	WCDMA850	H	207	72	17.50	1.36	16.71	0.047	38.45	-21.74	18.86	0.077	40.61	-21.75
826.40	WCDMA850	V	127	99	15.41	1.26	14.52	0.028	38.45	-23.93	16.67	0.046	40.61	-23.94
826.40	WCDMA850 (WCP)	H	202	72	18.16	1.26	17.27	0.053	38.45	-21.18	19.42	0.088	40.61	-21.19

Table 7-19. ERP Data (WCDMA Cell – 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.

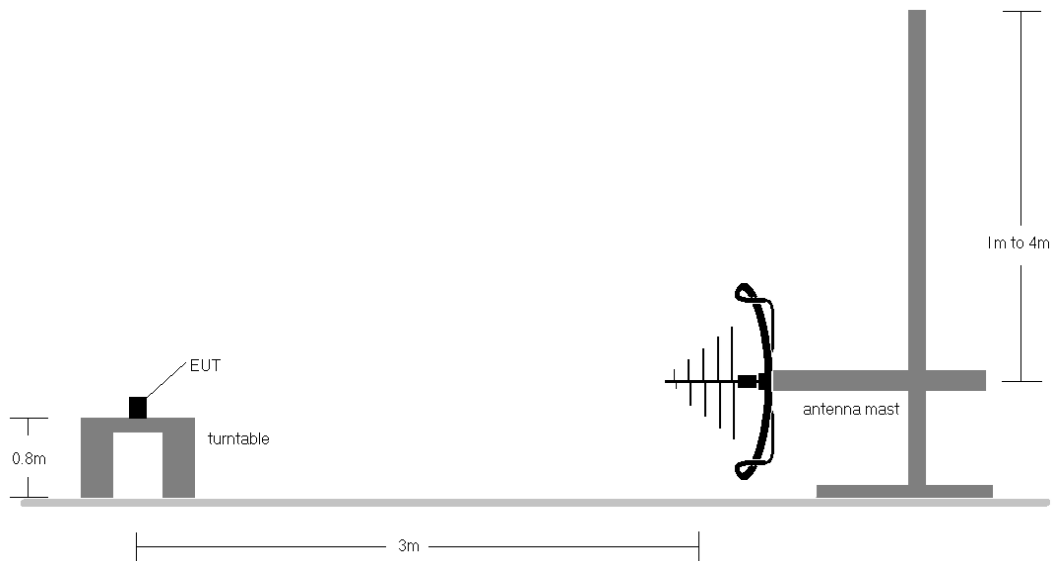


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

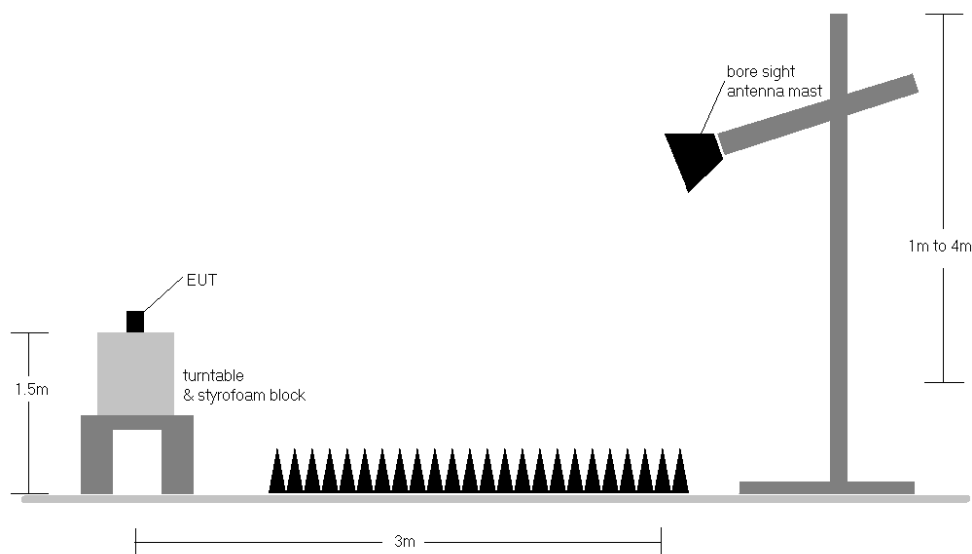


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

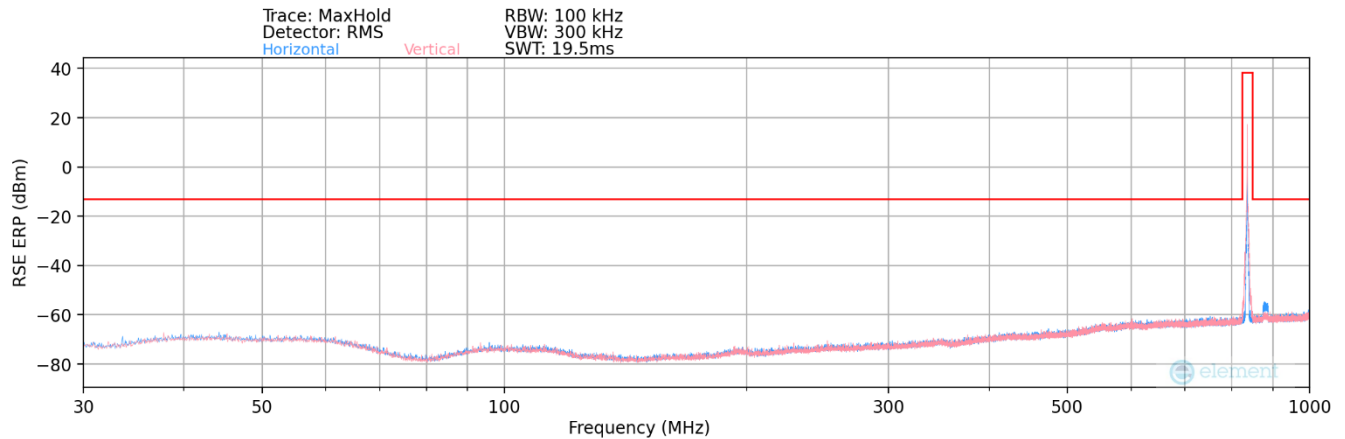
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 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.

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LTE Band 26/5 – Ant1

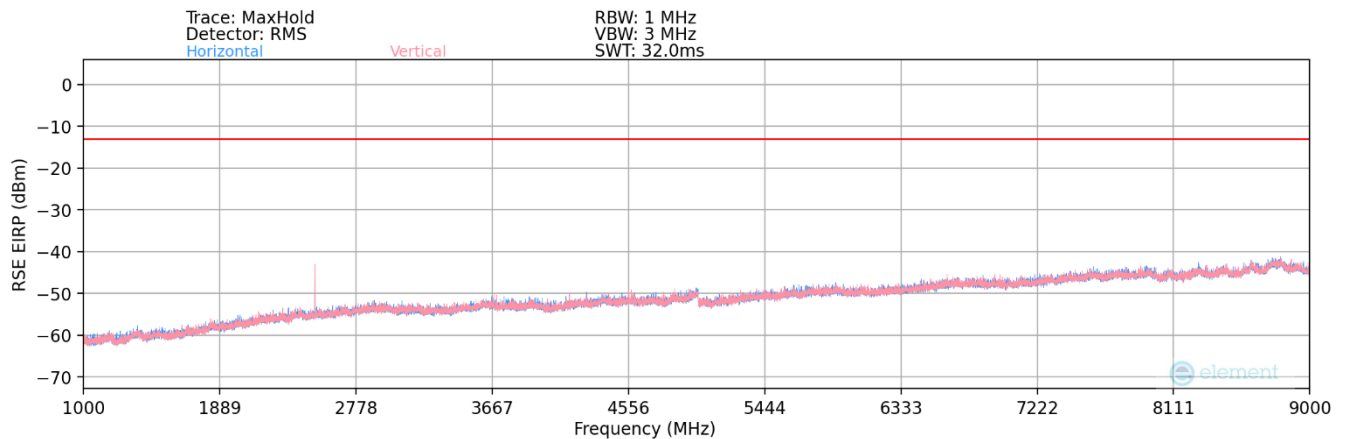


Plot 7-185. Radiated Spurious Plot (LTE Band 26/5 – Ant1)

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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]
300.00	V	-	-	-74.07	-11.07	21.86	-75.54	-13.00	-62.54

Table 7-20. Radiated Spurious Data (LTE Band 26/5 – Mid Channel – Ant1)



Plot 7-186. Radiated Spurious Plot (LTE Band 26/5 – Ant1)

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Bandwidth (MHz):	15
Frequency (MHz):	831.5
RB / Offset:	1 / 37

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]
1663.00	V	-	-	-77.90	0.21	29.31	-65.95	-13.00	-52.95
2494.50	V	204	348	-60.58	4.14	50.56	-44.69	-13.00	-31.69
3326.00	V	-	-	-79.78	7.03	34.25	-61.01	-13.00	-48.01
4157.50	V	-	-	-80.21	8.24	35.03	-60.23	-13.00	-47.23
4989.00	V	-	-	-80.78	10.14	36.36	-58.90	-13.00	-45.90

Table 7-21. Radiated Spurious Data (LTE Band 26/5 – Low Channel – Ant1)

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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	V	-	-	-77.56	0.47	29.91	-65.35	-13.00	-52.35
2509.50	V	169	9	-61.32	4.12	49.80	-45.45	-13.00	-32.45
3346.00	V	-	-	-79.77	6.86	34.09	-61.17	-13.00	-48.17
4182.50	V	-	-	-80.20	8.39	35.19	-60.07	-13.00	-47.07
5019.00	V	-	-	-81.16	10.57	36.41	-58.84	-13.00	-45.84

Table 7-22. Radiated Spurious Data (LTE Band 26/5 – Mid Channel – Ant1)

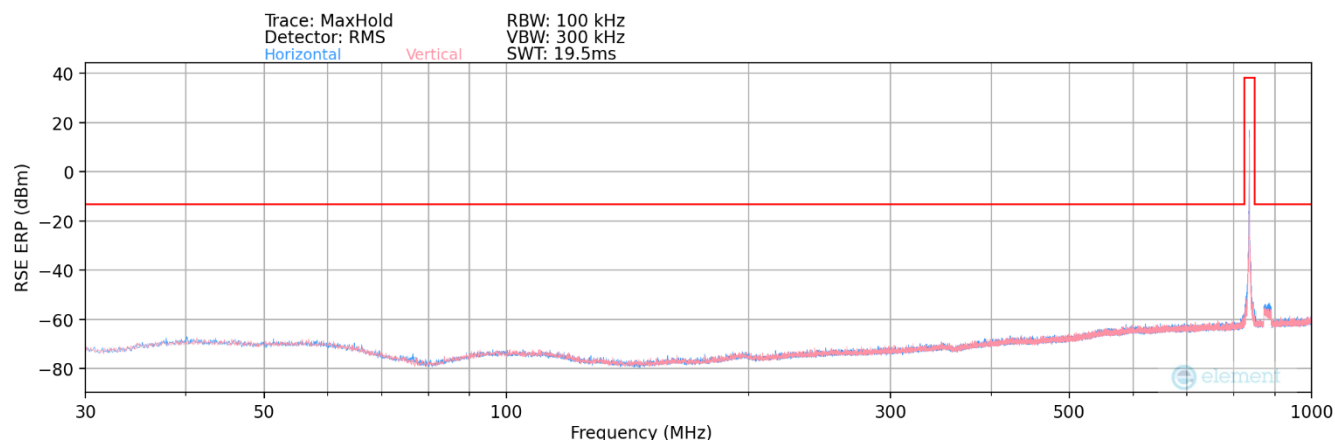
Bandwidth (MHz):	15
Frequency (MHz):	841.5
RB / Offset:	1 / 37

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]
1683.00	V	391	233	-75.41	0.62	32.21	-63.05	-13.00	-50.05
2524.50	V	139	7	-60.23	4.58	51.35	-43.91	-13.00	-30.91
3366.00	V	-	-	-79.68	6.64	33.96	-61.30	-13.00	-48.30
4207.50	V	-	-	-80.13	8.37	35.24	-60.02	-13.00	-47.02
5049.00	V	-	-	-81.16	10.81	36.65	-58.61	-13.00	-45.61

Table 7-23. Radiated Spurious Data (LTE Band 26/5 – High Channel – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – Ant1

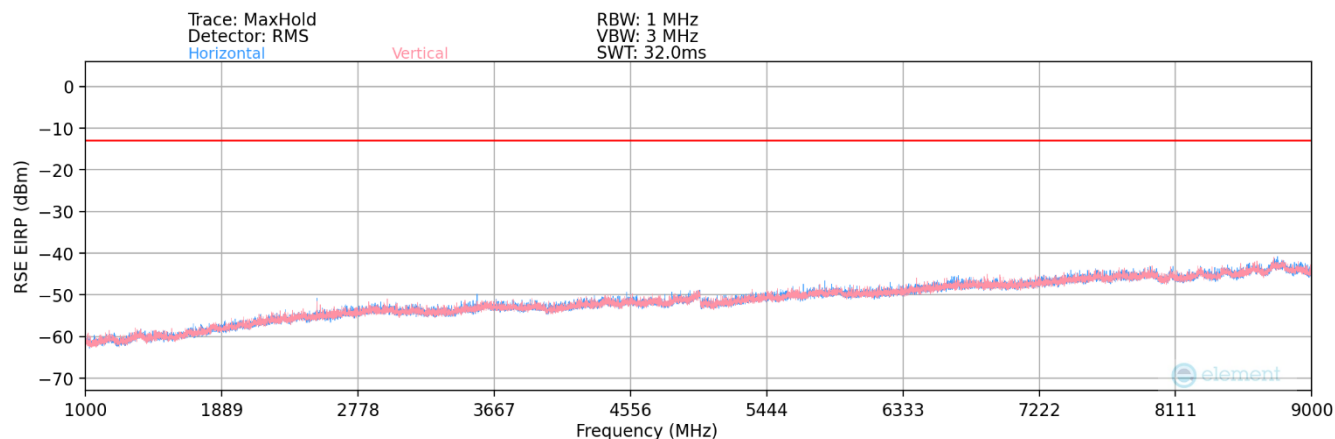


Plot 7-187. Radiated Spurious Plot (NR Band n5 – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 53

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]
300.00	H	-	-	-74.01	-11.07	21.92	-75.48	-13.00	-62.48

Table 7-24. Radiated Spurious Data (NR Band n5 – Mid Channel – Ant1)



Plot 7-188. Radiated Spurious Plot (NR Band n5 – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53

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]
1668.00	H	-	-	-78.12	0.37	29.25	-66.01	-13.00	-53.01
2502.00	H	201	309	-69.45	4.12	41.67	-53.59	-13.00	-40.59
3336.00	H	-	-	-79.64	7.03	34.39	-60.87	-13.00	-47.87
4170.00	H	-	-	-80.21	8.26	35.05	-60.20	-13.00	-47.20
5004.00	H	-	-	-80.45	10.50	37.05	-58.20	-13.00	-45.20

Table 7-25. Radiated Spurious Data (NR Band n5 – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 53

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	-	-	-78.16	0.47	29.31	-65.95	-13.00	-52.95
2509.50	H	198	316	-70.33	4.12	40.79	-54.46	-13.00	-41.46
3346.00	H	-	-	-79.80	6.86	34.06	-61.20	-13.00	-48.20
4182.50	H	-	-	-80.14	8.39	35.25	-60.01	-13.00	-47.01
5019.00	H	-	-	-80.70	10.57	36.87	-58.38	-13.00	-45.38

Table 7-26. Radiated Spurious Data (NR Band n5 – Mid Channel – Ant1)

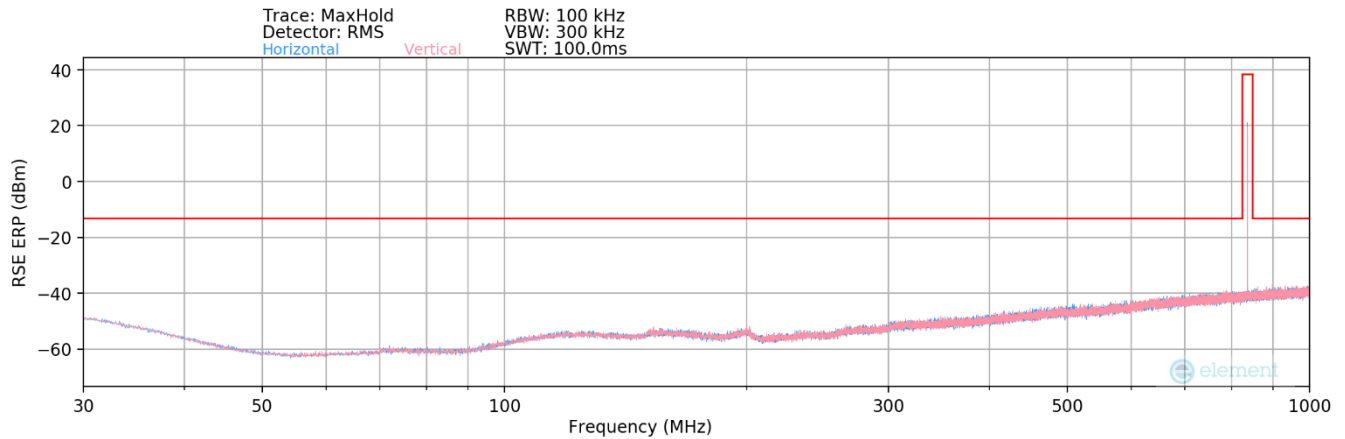
Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 53

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]
1678.00	H	-	-	-78.05	0.55	29.50	-65.75	-13.00	-52.75
2517.00	H	232	308	-71.15	4.36	40.21	-55.05	-13.00	-42.05
3356.00	H	-	-	-79.51	6.71	34.20	-61.06	-13.00	-48.06
4195.00	H	-	-	-80.00	8.33	35.33	-59.93	-13.00	-46.93
5034.00	H	-	-	-81.17	10.72	36.55	-58.71	-13.00	-45.71

Table 7-27. Radiated Spurious Data (NR Band n5 – High Channel – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell – Ant1

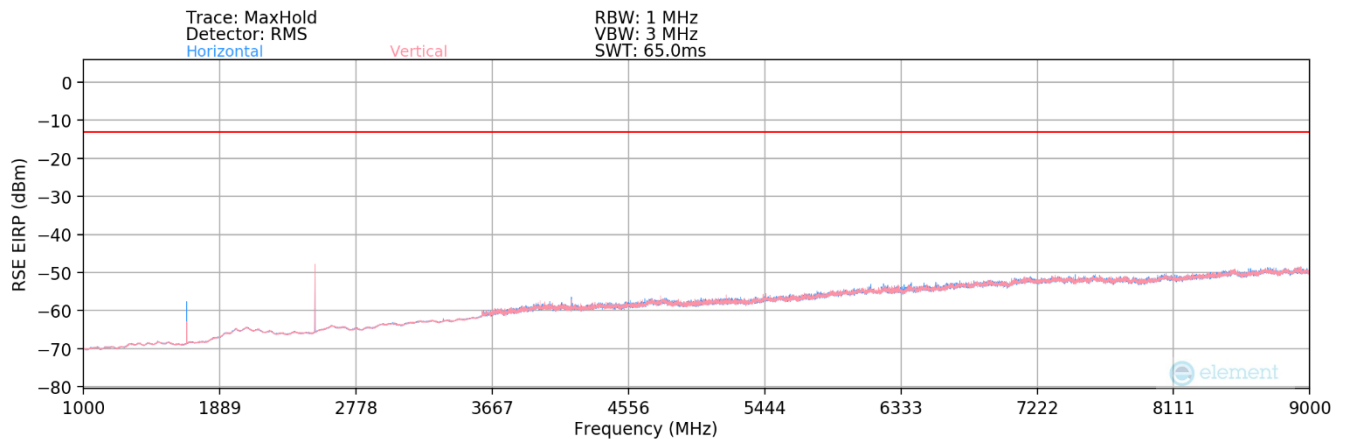


Plot 7-189. Radiated Spurious Plot (GPRS Cell – Ant1)

Mode:	GPRS 1 Tx Slot
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]
330.00	H	-	-	-82.01	21.71	46.70	-50.70	-13.00	-37.70

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



Plot 7-190. Radiated Spurious Plot (GPRS Cell – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 143 of 165

Mode:	GPRS 1 Tx Slot
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	188	48	-60.36	-7.22	39.42	-55.84	-13.00	-42.84
2472.60	H	138	339	-49.34	-4.43	53.23	-42.03	-13.00	-29.03
3296.80	H	-	-	-71.92	-1.20	33.88	-61.37	-13.00	-48.37
4121.00	H	-	-	-75.88	1.60	32.72	-62.54	-13.00	-49.54
4945.20	H	-	-	-76.20	2.54	33.34	-61.92	-13.00	-48.92

Table 7-29. Radiated Spurious Data (GPRS Cell – Low Channel – Ant1)

Mode:	GPRS 1 Tx Slot
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	153	333	-62.54	-6.94	37.52	-57.74	-13.00	-44.74
2509.80	H	214	325	-48.16	-3.98	54.86	-40.40	-13.00	-27.40
3346.40	H	-	-	-71.79	-1.04	34.17	-61.08	-13.00	-48.08
4183.00	H	-	-	-75.78	1.55	32.77	-62.49	-13.00	-49.49
5019.60	H	-	-	-76.65	2.91	33.26	-61.99	-13.00	-48.99

Table 7-30. Radiated Spurious Data (GPRS Cell – Mid Channel – Ant1)

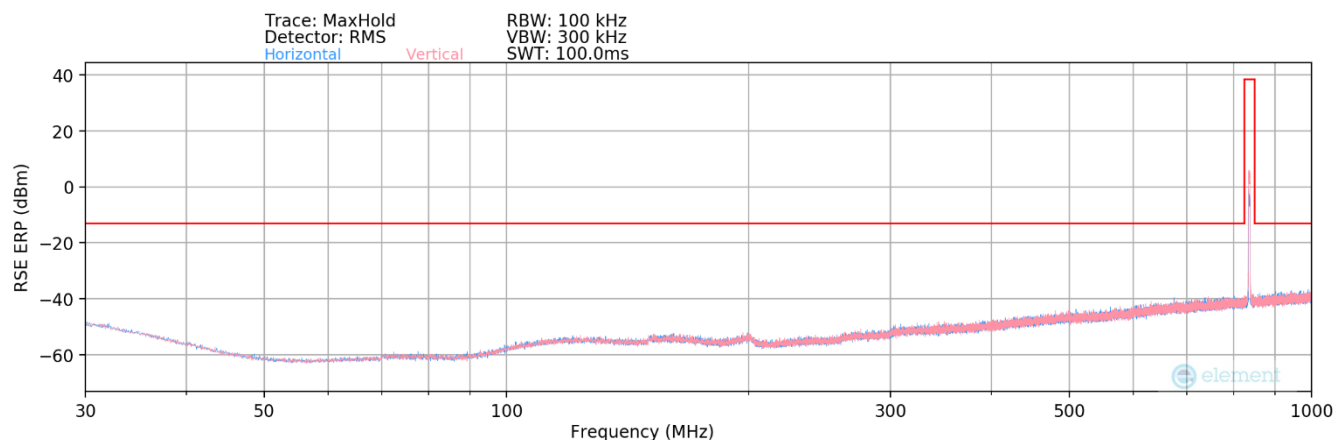
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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	180	341	-56.83	-6.66	43.51	-51.75	-13.00	-38.75
2546.40	H	183	332	-52.63	-3.43	50.94	-44.32	-13.00	-31.32
3395.20	H	-	-	-70.92	-1.15	34.93	-60.33	-13.00	-47.33
4244.00	H	-	-	-76.29	1.56	32.27	-62.98	-13.00	-49.98
5092.80	H	-	-	-76.89	3.11	33.22	-62.04	-13.00	-49.04

Table 7-31. Radiated Spurious Data (GPRS Cell – High Channel – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 144 of 165

WCDMA Cell – Ant1

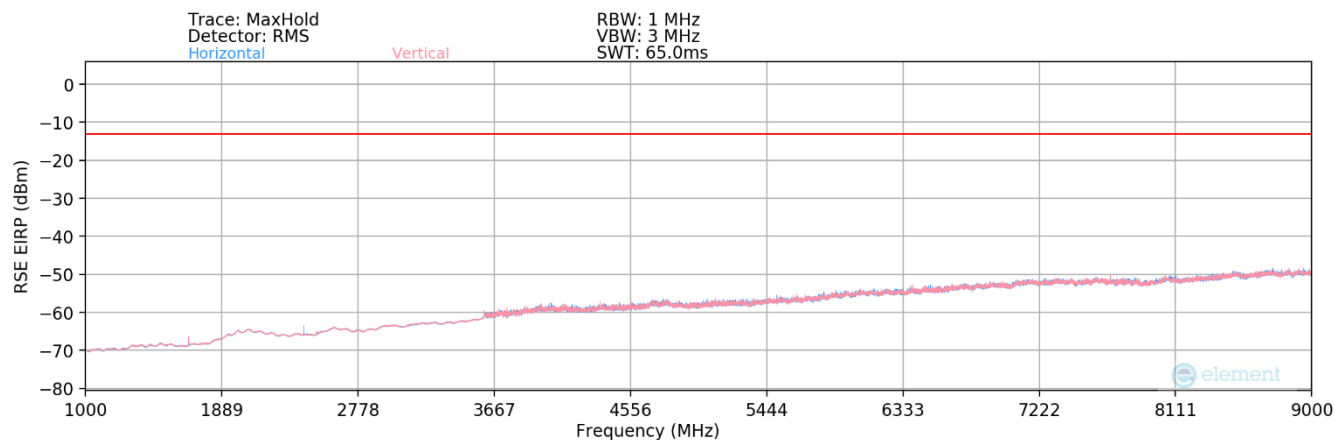


Plot 7-191. Radiated Spurious Plot (WCDMA Cell – Ant1)

Mode:	WCDMA RMC
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]
620.00	V	-	-	-82.44	27.26	51.82	-45.59	-13.00	-32.59

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



Plot 7-192. Radiated Spurious Plot (WCDMA Cell – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 145 of 165

Mode:	WCDMA RMC
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	V	126	160	-67.92	-7.17	31.91	-63.35	-13.00	-50.35
2479.20	V	277	329	-69.30	-4.40	33.30	-61.96	-13.00	-48.96
3305.60	V	-	-	-71.22	-1.27	34.51	-60.75	-13.00	-47.75
4132.00	V	-	-	-75.76	1.51	32.75	-62.51	-13.00	-49.51
4958.40	V	-	-	-76.26	2.61	33.35	-61.90	-13.00	-48.90

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

Mode:	WCDMA RMC
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	V	169	151	-67.01	-6.94	33.05	-62.21	-13.00	-49.21
2509.80	V	125	242	-68.02	-3.98	35.00	-60.26	-13.00	-47.26
3346.40	V	-	-	-71.98	-1.04	33.98	-61.27	-13.00	-48.27
4183.00	V	-	-	-75.99	1.55	32.56	-62.70	-13.00	-49.70
5019.60	V	-	-	-76.36	2.91	33.55	-61.70	-13.00	-48.70

Table 7-34. Radiated Spurious Data (WCDMA Cell – Mid Channel – Ant1)

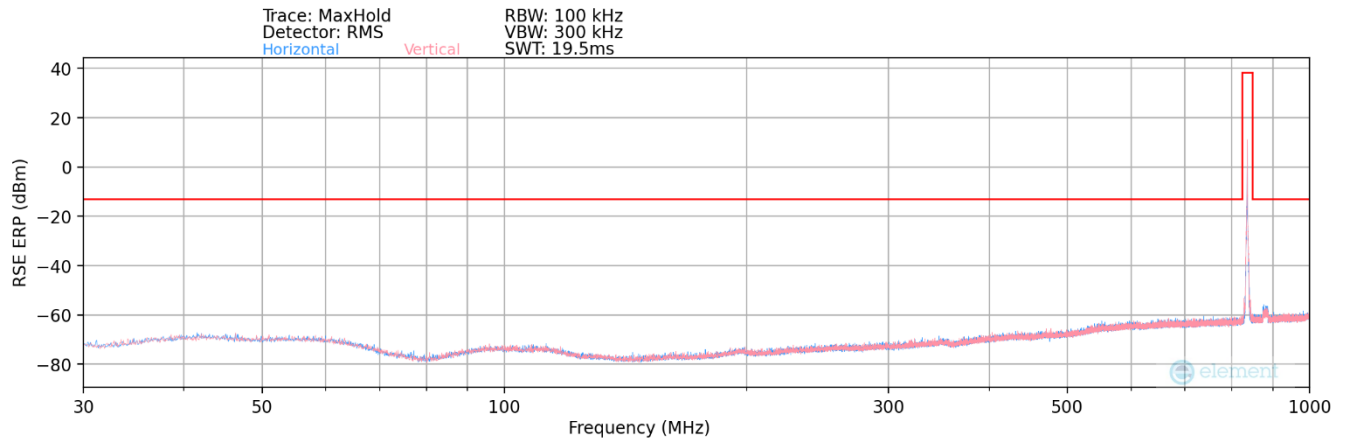
Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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	V	131	308	-64.52	-6.71	35.77	-59.49	-13.00	-46.49
2539.80	V	289	189	-68.21	-3.53	35.26	-59.99	-13.00	-46.99
3386.40	V	-	-	-71.72	-1.14	34.14	-61.12	-13.00	-48.12
4233.00	V	-	-	-76.08	1.50	32.42	-62.83	-13.00	-49.83
5079.60	V	-	-	-76.76	3.03	33.27	-61.98	-13.00	-48.98

Table 7-35. Radiated Spurious Data (WCDMA Cell – High Channel – Ant1)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5 – Ant2

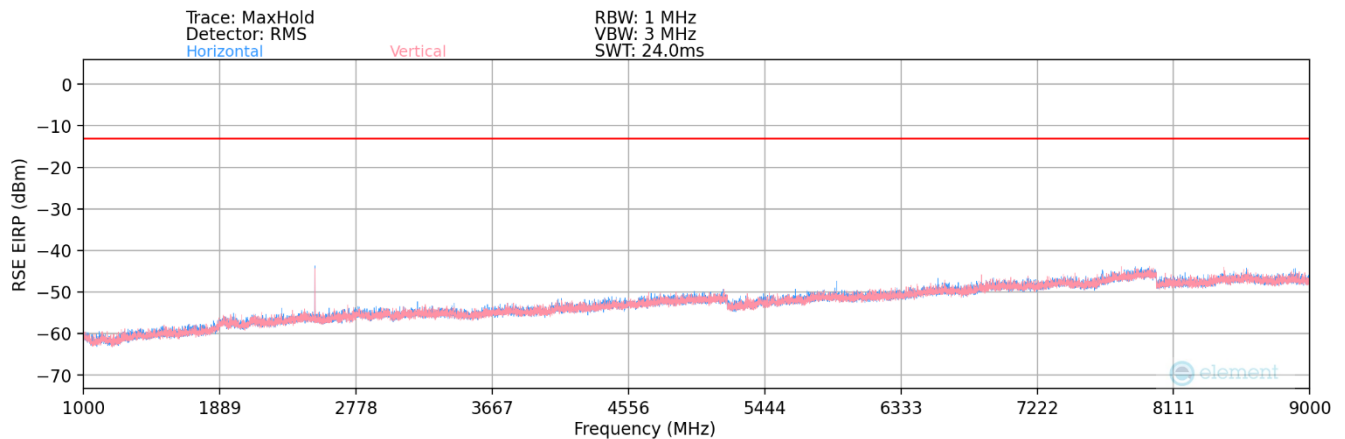


Plot 7-193. Radiated Spurious Plot (LTE Band 26/5 – Ant2)

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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]
300.00	H	-	-	-74.33	-11.07	21.60	-75.80	-13.00	-62.80

Table 7-36. Radiated Spurious Data (LTE Band 26/5 – Mid Channel – Ant2)



Plot 7-194. Radiated Spurious Plot (LTE Band 26/5 – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 147 of 165

Bandwidth (MHz):	15
Frequency (MHz):	831.5
RB / Offset:	1 / 37

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]
1663.00	H	156	0	-76.68	0.21	30.53	-64.73	-13.00	-51.73
2494.50	H	218	337	-62.36	4.14	48.78	-46.47	-13.00	-33.47
3326.00	H	-	-	-78.59	7.03	35.44	-59.82	-13.00	-46.82
4157.50	H	-	-	-79.06	8.24	36.18	-59.08	-13.00	-46.08
4989.00	H	-	-	-79.23	10.14	37.91	-57.35	-13.00	-44.35

Table 7-37. Radiated Spurious Data (LTE Band 26/5 – Low Channel – Ant2)

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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	123	353	-76.84	0.47	30.63	-64.63	-13.00	-51.63
2509.50	H	137	316	-62.54	4.12	48.58	-46.67	-13.00	-33.67
3346.00	H	-	-	-78.75	6.86	35.11	-60.15	-13.00	-47.15
4182.50	H	-	-	-78.92	8.39	36.47	-58.79	-13.00	-45.79
5019.00	H	-	-	-79.20	10.57	38.37	-56.88	-13.00	-43.88

Table 7-38. Radiated Spurious Data (LTE Band 26/5 – Mid Channel – Ant2)

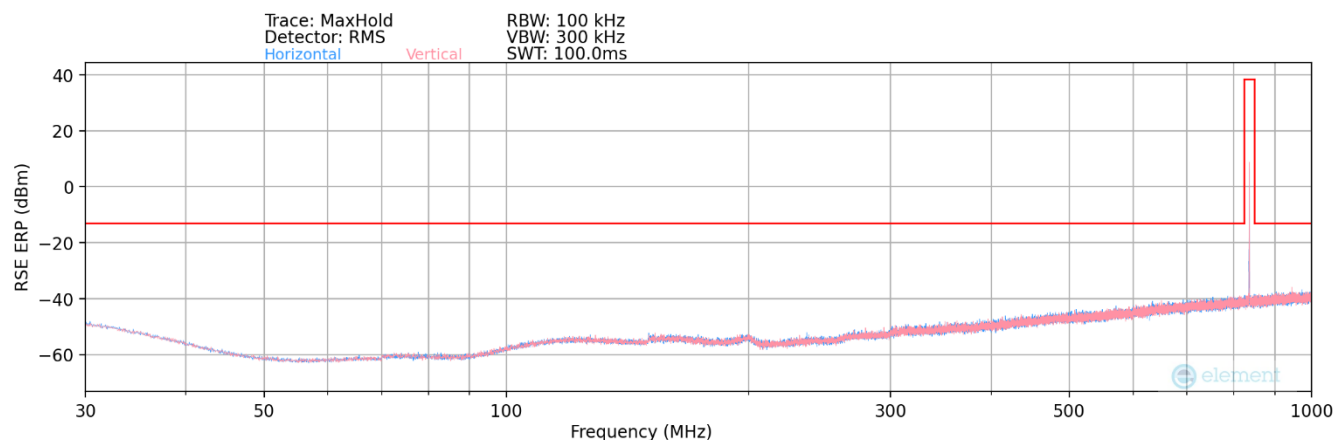
Bandwidth (MHz):	15
Frequency (MHz):	841.5
RB / Offset:	1 / 37

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]
1683.00	H	-	-	-76.90	0.62	30.72	-64.54	-13.00	-51.54
2524.50	H	263	339	-63.31	4.58	48.27	-46.99	-13.00	-33.99
3366.00	H	-	-	-79.08	6.64	34.56	-60.70	-13.00	-47.70
4207.50	H	-	-	-79.19	8.37	36.18	-59.08	-13.00	-46.08
5049.00	H	-	-	-79.23	10.81	38.58	-56.68	-13.00	-43.68

Table 7-39. Radiated Spurious Data (LTE Band 26/5 – High Channel – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5 – Ant2

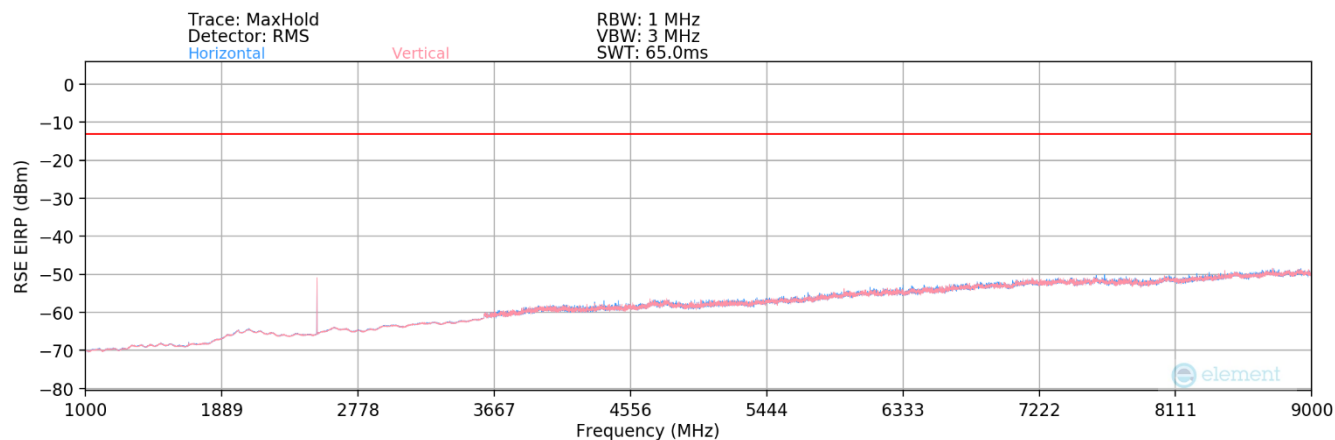


Plot 7-195. Radiated Spurious Plot (NR Band n5 – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1/ 53

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]
300.00	H	-	-	-74.56	21.22	53.66	-43.75	-13.00	-30.75

Table 7-40. Radiated Spurious Data (NR Band n5 – Mid Channel – Ant2)



Plot 7-196. Radiated Spurious Plot (NR Band n5 – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53

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]
1668.00	H	137	340	-75.20	-7.00	24.80	-70.46	-13.00	-57.46
2502.00	H	126	325	-55.94	-4.14	46.92	-48.33	-13.00	-35.33
3336.00	H	-	-	-77.79	-1.11	28.10	-67.16	-13.00	-54.16
4170.00	H	-	-	-78.31	1.51	30.20	-65.06	-13.00	-52.06
5004.00	H	-	-	-78.51	2.68	31.17	-64.08	-13.00	-51.08

Table 7-41. Radiated Spurious Data (NR Band n5 – Low Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 53

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	163	6	-77.24	-6.94	22.82	-72.44	-13.00	-59.44
2509.50	H	141	333	-57.00	-3.99	46.01	-49.24	-13.00	-36.24
3346.00	H	-	-	-78.30	-1.04	27.66	-67.60	-13.00	-54.60
4182.50	H	-	-	-78.76	1.55	29.79	-65.47	-13.00	-52.47
5019.00	H	-	-	-78.83	2.90	31.07	-64.18	-13.00	-51.18

Table 7-42. Radiated Spurious Data (NR Band n5 – Mid Channel – Ant2)

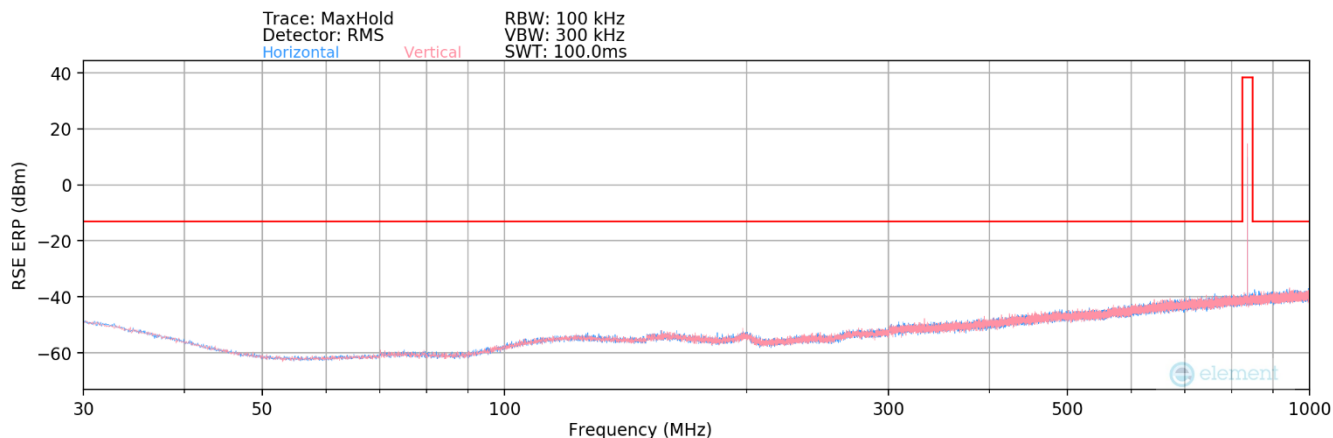
Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 53

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]
1678.00	H	150	25	-75.14	-6.88	24.98	-70.28	-13.00	-57.28
2517.00	H	149	319	-56.32	-3.86	46.82	-48.44	-13.00	-35.44
3356.00	H	-	-	-77.32	-0.98	28.70	-66.56	-13.00	-53.56
4195.00	H	-	-	-78.66	1.57	29.91	-65.35	-13.00	-52.35
5034.00	H	-	-	-78.77	3.06	31.29	-63.96	-13.00	-50.96

Table 7-43. Radiated Spurious Data (NR Band n5 – High Channel – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell – Ant2

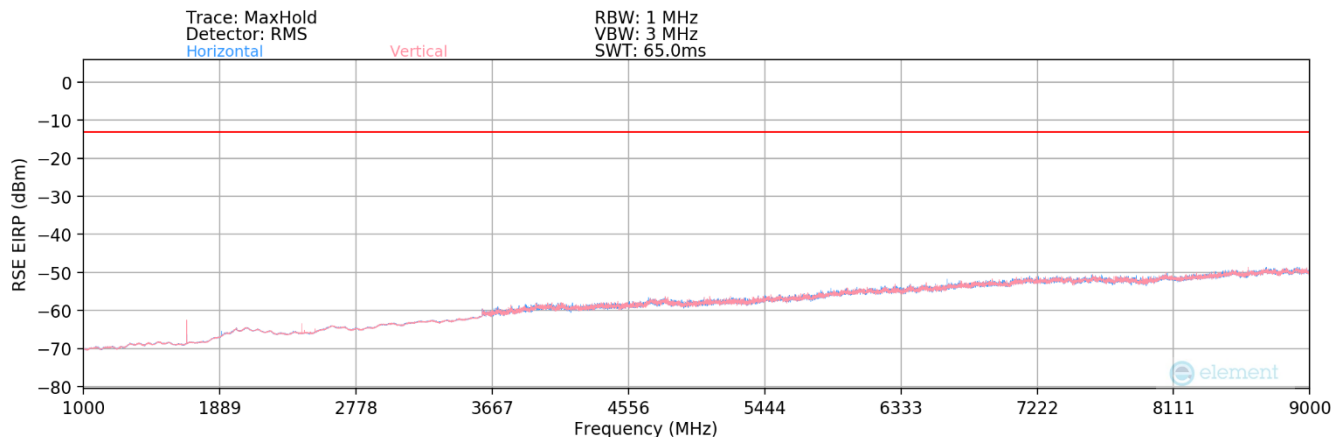


Plot 7-197. Radiated Spurious Plot (GPRS Cell – Ant2)

Mode:	GPRS 1 Tx Slot
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]
340.00	V	-	-	-82.66	21.85	46.19	-51.22	-13.00	-38.22

Table 7-44. Radiated Spurious Data (GPRS Cell – Mid Channel – Ant2)



Plot 7-198. Radiated Spurious Plot (GPRS Cell – Ant2)

FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250079-06.A3L	Test Dates: 9/2/2025 - 10/20/2025	EUT Type: Portable Handset	Page 151 of 165

Mode:	GPRS 1 Tx Slot
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	159	344	-60.75	-7.22	39.03	-56.23	-13.00	-43.23
2472.60	V	256	93	-64.92	-4.43	37.65	-57.61	-13.00	-44.61
3296.80	V	-	-	-71.70	-1.20	34.10	-61.15	-13.00	-48.15
4121.00	V	-	-	-74.76	1.60	33.84	-61.42	-13.00	-48.42
4945.20	V	-	-	-76.83	2.54	32.71	-62.55	-13.00	-49.55

Table 7-45. Radiated Spurious Data (GPRS Cell – Low Channel – Ant2)

Mode:	GPRS 1 Tx Slot
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	162	142	-65.17	-6.94	34.89	-60.37	-13.00	-47.37
2509.80	V	344	95	-66.74	-3.98	36.28	-58.98	-13.00	-45.98
3346.40	V	-	-	-71.61	-1.04	34.35	-60.90	-13.00	-47.90
4183.00	V	-	-	-76.10	1.55	32.45	-62.81	-13.00	-49.81
5019.60	V	-	-	-76.46	2.91	33.45	-61.80	-13.00	-48.80

Table 7-46. Radiated Spurious Data (GPRS Cell – Mid Channel – Ant2)

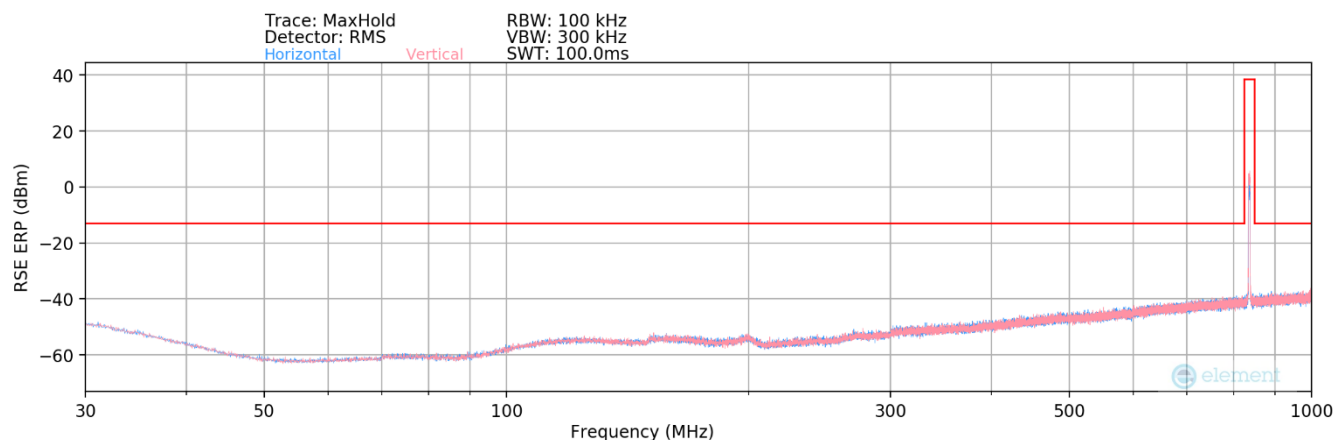
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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	205	331	-68.37	-6.66	31.97	-63.29	-13.00	-50.29
2546.40	V	276	94	-66.71	-3.43	36.86	-58.40	-13.00	-45.40
3395.20	V	-	-	-72.19	-1.15	33.66	-61.60	-13.00	-48.60
4244.00	V	-	-	-76.20	1.56	32.36	-62.89	-13.00	-49.89
5092.80	V	-	-	-76.53	3.11	33.58	-61.68	-13.00	-48.68

Table 7-47. Radiated Spurious Data (GPRS Cell – High Channel – Ant2)

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WCDMA Cell – Ant2

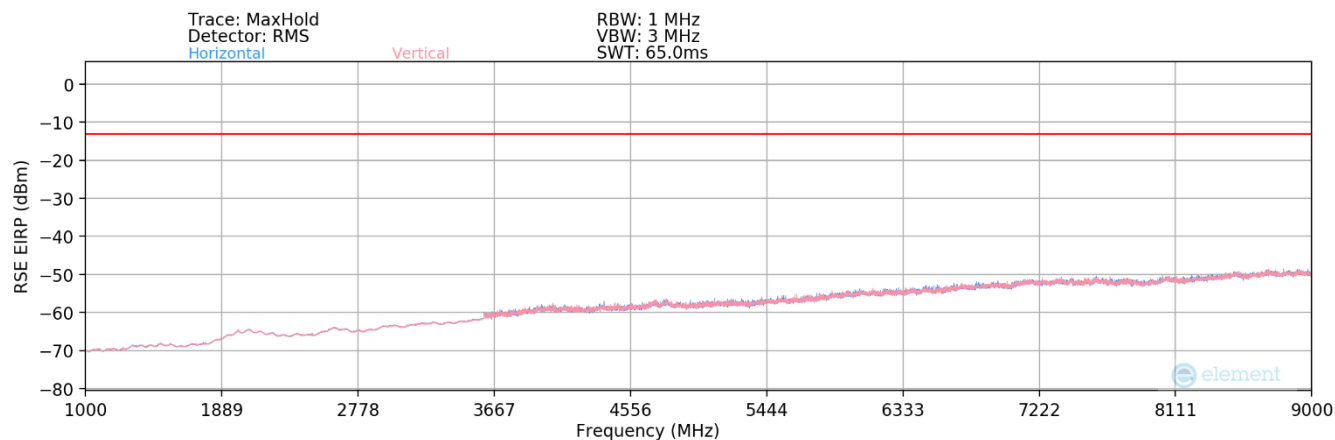


Plot 7-199. Radiated Spurious Plot (WCDMA Cell – Ant2)

Mode:	WCDMA RMC
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]
410.00	V	-	-	-82.48	23.62	48.14	-49.27	-13.00	-36.27

Table 7-48. Radiated Spurious Data (WCDMA Cell – Mid Channel – Ant2)



Plot 7-200. Radiated Spurious Plot (WCDMA Cell – Ant2)

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Mode:	WCDMA RMC
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	V	-	-	-71.28	-7.17	28.55	-66.71	-13.00	-53.71
2479.20	V	-	-	-71.35	-4.40	31.25	-64.01	-13.00	-51.01
3305.60	V	-	-	-71.70	-1.27	34.03	-61.23	-13.00	-48.23

Table 7-49. Radiated Spurious Data (WCDMA Cell – Low Channel – Ant2)

Mode:	WCDMA RMC
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	V	-	-	-70.42	-6.94	29.64	-65.62	-13.00	-52.62
2509.80	V	-	-	-71.99	-3.98	31.03	-64.23	-13.00	-51.23
3346.40	V	-	-	-71.97	-1.04	33.99	-61.26	-13.00	-48.26

Table 7-50. Radiated Spurious Data (WCDMA Cell – Mid Channel – Ant2)

Mode:	WCDMA RMC
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	V	-	-	-70.72	-6.71	29.57	-65.69	-13.00	-52.69
2539.80	V	-	-	-71.67	-3.53	31.80	-63.45	-13.00	-50.45
3386.40	V	-	-	-72.33	-1.14	33.53	-61.73	-13.00	-48.73

Table 7-51. Radiated Spurious Data (WCDMA Cell – High Channel – Ant2)

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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22 and RSS-132, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

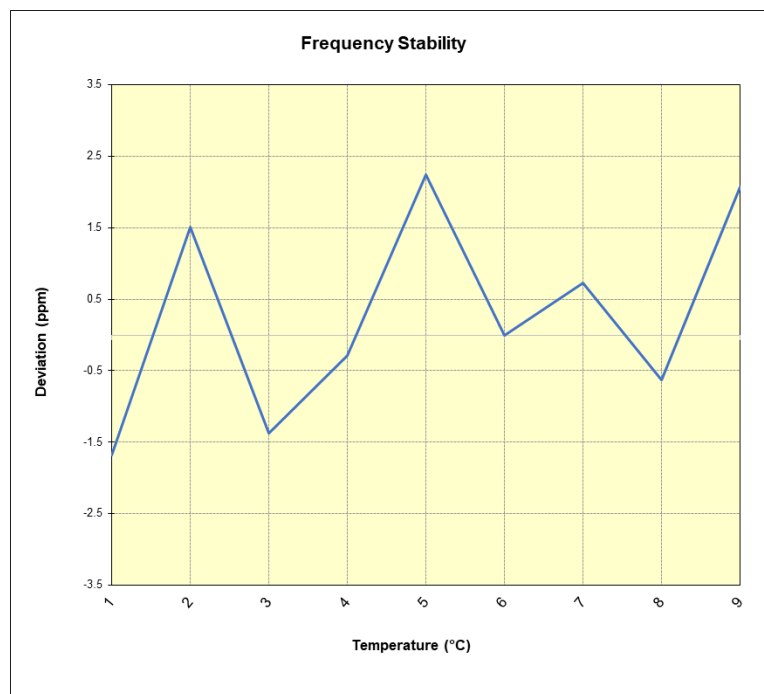
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5

Operating Frequency (Hz):	836,500,000
Ref. Voltage (VDC):	4.464
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	836,537,064	-1,408	-0.0001683
		- 20	836,539,739	1,267	0.0001515
		- 10	836,537,326	-1,146	-0.0001370
		0	836,538,237	-235	-0.0000281
		+ 10	836,540,344	1,872	0.0002238
		+ 20 (Ref)	836,538,472	0	0.0000000
		+ 30	836,539,082	610	0.0000729
		+ 40	836,537,948	-524	-0.0000626
		+ 50	836,540,207	1,735	0.0002074
Battery Endpoint	3.682	+ 20	836,538,934	462	0.0000552

Table 7-52. LTE Band 26/5 Frequency Stability Data



Plot 7-201. LTE Band 26/5 Frequency Stability Chart

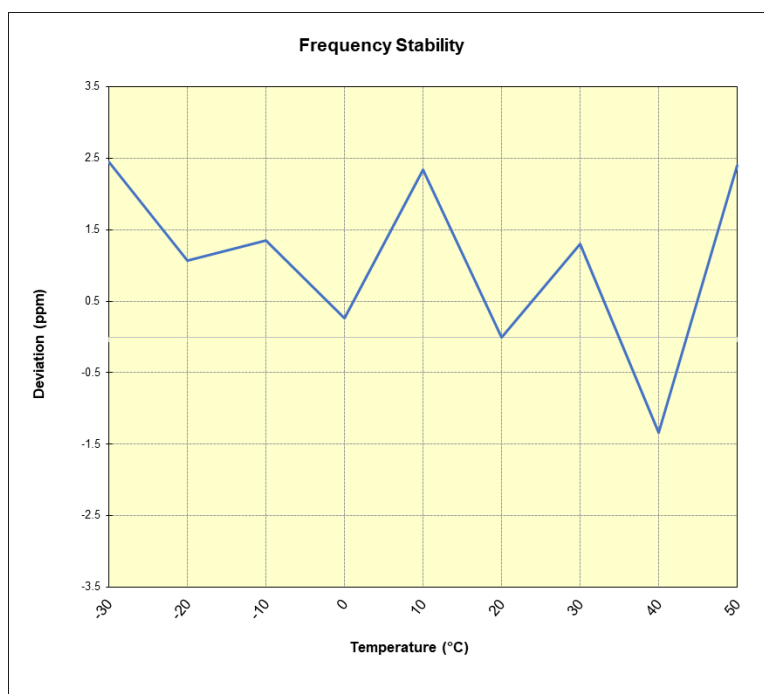
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5

Operating Frequency (Hz):	836,500,000
Ref. Voltage (VDC):	4.464
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	836,527,074	2,044	0.0002443
		- 20	836,525,927	897	0.0001072
		- 10	836,526,156	1,126	0.0001346
		0	836,525,249	219	0.0000262
		+ 10	836,526,988	1,958	0.0002341
		+ 20 (Ref)	836,525,030	0	0.0000000
		+ 30	836,526,118	1,088	0.0001301
		+ 40	836,523,911	-1,119	-0.0001338
		+ 50	836,527,036	2,006	0.0002398
Battery Endpoint	3.682	+ 20	836,526,836	1,806	0.0002159

Table 7-53. NR Band n5 Frequency Stability Data



Plot 7-202. NR Band n5 Frequency Stability Chart

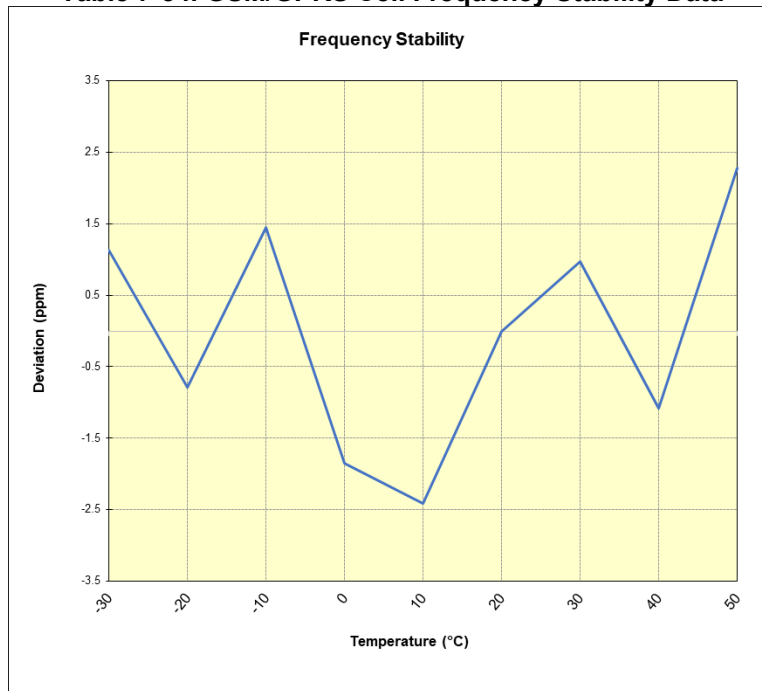
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cellular

Operating Frequency (Hz):	836,600,000
Ref. Voltage (VDC):	4.464
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	837,008,172	947	0.0001131
		- 20	837,006,566	-659	-0.0000787
		- 10	837,008,433	1,208	0.0001443
		0	837,005,680	-1,545	-0.0001846
		+ 10	837,005,203	-2,022	-0.0002416
		+ 20 (Ref)	837,007,225	0	0.0000000
		+ 30	837,008,041	816	0.0000975
		+ 40	837,006,324	-901	-0.0001076
		+ 50	837,009,136	1,911	0.0002283
Battery Endpoint	3.682	+ 20	837,008,127	902	0.0001078

Table 7-54. GSM/GPRS Cell Frequency Stability Data



Plot 7-203. GSM/GPRS Cell Frequency Stability Chart

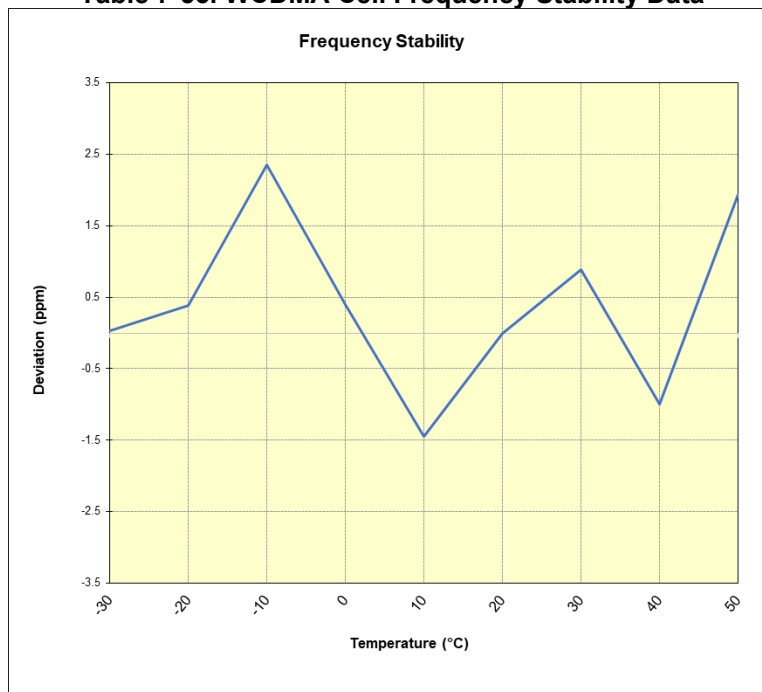
FCC ID: A3LSMS948B	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cellular

Operating Frequency (Hz):	836,600,000
Ref. Voltage (VDC):	4.464
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	836,598,278	24	0.0000029
		- 20	836,598,572	318	0.0000380
		- 10	836,600,222	1,968	0.0002352
		0	836,598,591	337	0.0000403
		+ 10	836,597,039	-1,215	-0.0001452
		+ 20 (Ref)	836,598,254	0	0.0000000
		+ 30	836,598,992	738	0.0000882
		+ 40	836,597,420	-834	-0.0000997
		+ 50	836,599,876	1,622	0.0001939
Battery Endpoint	3.682	+ 20	836,600,213	1,959	0.0002342

Table 7-55. WCDMA Cell Frequency Stability Data



Plot 7-204. WCDMA Cell Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948B** complies with all the requirements of Part 22 of the FCC rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948B**.

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9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Notes

1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-S948B/DS

Band	Channel	GPRS [dBm] 1 Tx Slot
GSM 850	128	32.01

Table 9-1. Conducted Output Power Measurements (Spot-check) – GPRS850 – Ant 1

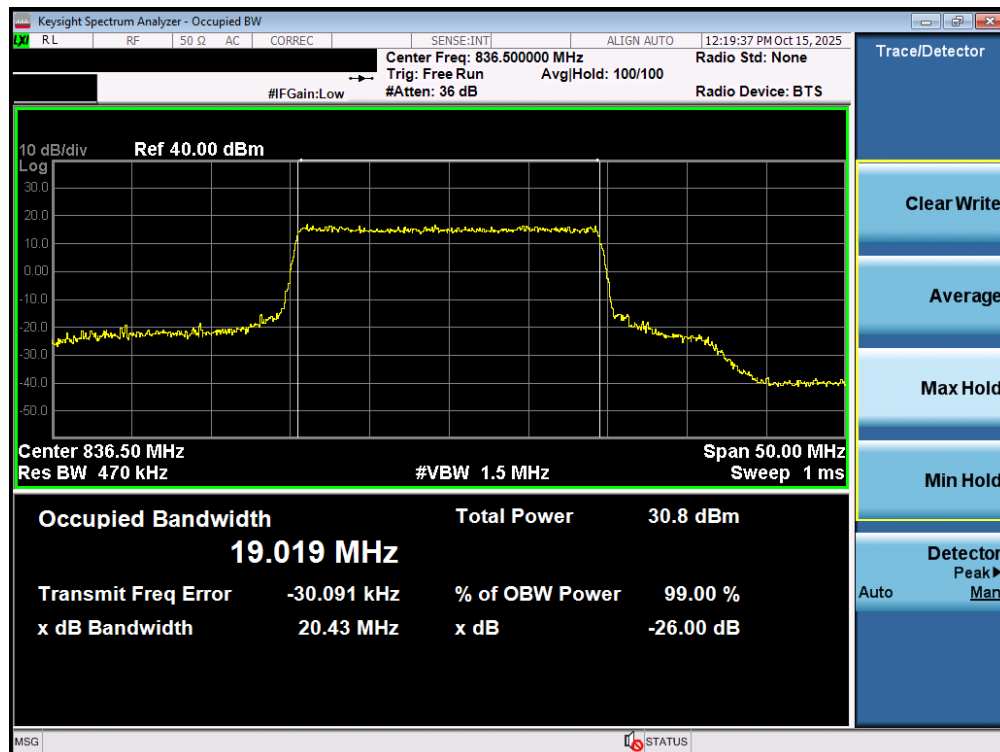
Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20	π/2 BPSK	167800	839.0	1 / 53	24.54

Table 9-2. Conducted Output Power Measurements (Spot-check) – NR Band n5 Ant 1

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Plot 9-1. Occupied Bandwidth (Spot-check) – GPRS850 (Spot-check)



Plot 9-2. Occupied Bandwidth (Spot-check) - NR Band n5 (Spot-check)

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Radiated Spot-Checks – SM-S948B/DS

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
836.60	GSM850	H	386	236	29.49	1.31	28.65	0.733	38.45	-9.80	30.80	1.202	40.61	-9.81

Table 9-3. ERP Measurements (Spot-check) – GPRS850 – Ant 1

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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	TT/2 BPSK	836.50	H	392	247	1.31	1 / 53	22.19	21.35	0.136	38.45	-17.10	23.50	0.224	40.61	-17.11

Table 9-4. ERP Measurements (Spot-check) – NR Band n5 – Ant 1

Mode:	GPRS 1 Tx Slot
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]
2509.80	H	140	166	-53.25	2.90	56.65	-38.61	-13.00	-25.61

Table 9-5. Radiated Spurious Measurements (Spot-check) – GPRS850 – Ant 1

Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
2517.00	H	156	323	-59.87	2.79	49.92	-45.33	-13.00	-32.33

Table 9-6. Radiated Spurious Measurements (Spot-check) – NR Band n5 – Ant 2

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Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
22	Conducted Output Power	Low Ch. 128, Ant E	dBm	N/A	32.97	32.01	-0.96	1	PASS
	Occupied Bandwidth	Mid Ch. 190, Ant E	kHz	N/A	247.60	242.36	-5.24	N/A	PASS
	ERP	Mid Ch. 190, Ant E	dBm	38.45	28.68	28.65	-0.03	3	PASS
	RSE	Mid Ch. 190, 2509.8MHz, Ant E	dBm	-13	-40.40	-38.61	1.79	3	PASS

Table 9-7. Summary of Spot-checks – GPRS850 – Ant 1

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
22	Conducted Output Power	High Ch. 166800, 20MHz, BPSK, Ant E	dBm	N/A	24.42	24.54	0.11	1	PASS
	Occupied Bandwidth	Mid Ch. 167300, 20MHz, QPSK, Ant E	MHz	N/A	19.04	19.02	-0.02	N/A	PASS
	ERP	Mid Ch. 167300, 20MHz, BPSK, Ant E	dBm	38.45	20.75	21.35	0.60	3	PASS
	RSE	High Ch. 26965, 15MHz, QPSK, 2517MHz, Ant A	dBm	-13	-48.44	-45.33	3.11	4.77	PASS

Table 9-8. Summary of Spot-checks – NR Band n5 – Ant 1 & 2

Notes:

The maximum deviation for the N5 RSE spot-check data is determined in accordance with the applicable KDB 484596 guidance:

For EMC compliance test data (e.g., spurious emissions limits), the deviation between the variant and the parent model, for both field and power quantities, is expressed as:

$$d_{dB} = |V_{dB} - R_{dB}| \quad (1)$$

where V_{dB} is the variant spot-check level in dB, and R_{dB} is the corresponding reference measurement level in dB for the parent model.

The spot-check will be deemed acceptable when:

$$d_{dB} \leq d_{dBmax} \quad (2)$$

where d_{dBmax} is the maximum deviation d_{dB} allowed for the EMC data for the spot-check to be considered acceptable. The definition of d_{dBmax} is based on “how far” the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the test under consideration. More specifically, if M_{dB} is the margin in dB from the compliance limit, expressed as

$$M_{dB} = |C_{dB} - R_{dB}| \quad (3)$$

then d_{dBmax} is defined as a function of M_{dB} , which increases linearly from 3 dB to 6 dB (Fig. 2), according to:

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

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